

Designation : Test Alien 28p on virtual 8p Device CAT6A Length : 89 m Temp : 20°C
 Testorder : AlienXT 7X4 CAT6A Test Date/Time : 2016-03-11 13:01:37 Sample-ID-No. : 000008G85B

Customer : aesa Drum no. : 1
 Cable type : cat6a uutp Order number : rotronic
 Specification : 6a Operator : d

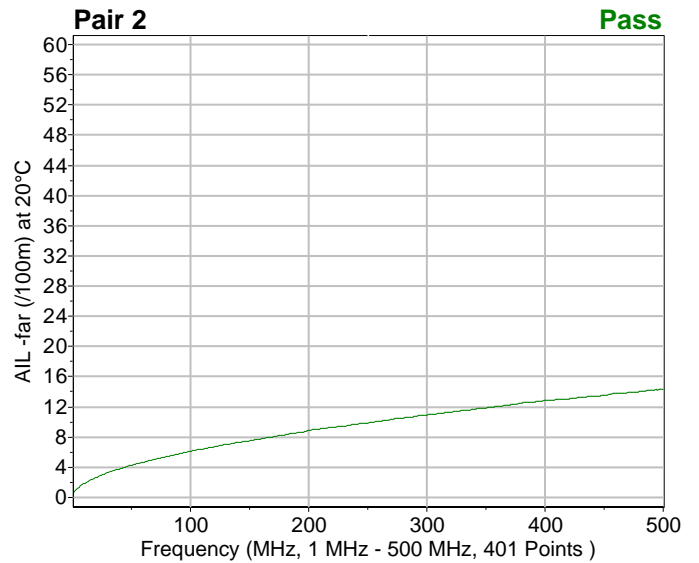
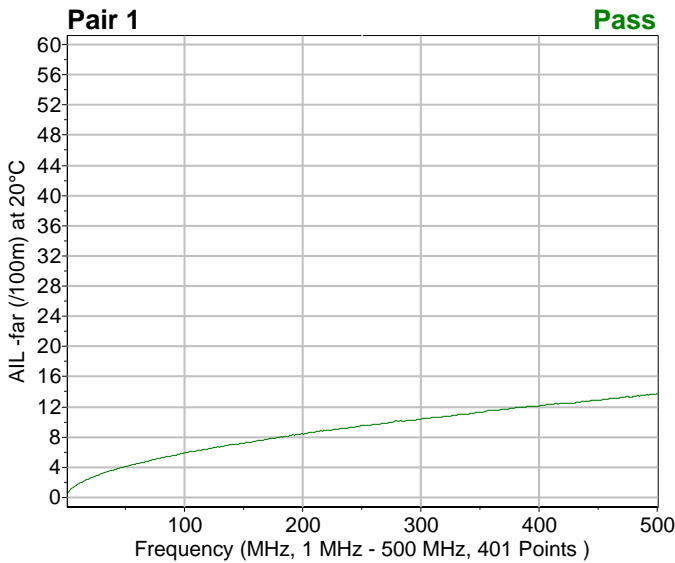
Test Result: FAIL

Final inspection

Summary and Graphic: Alien insertion loss -far (AIL -far)

{ v = Value (/100m) at 20°C l = Limit (/100m) at 20°C m = Margin (/100m) at 20°C f = Frequency (MHz) }

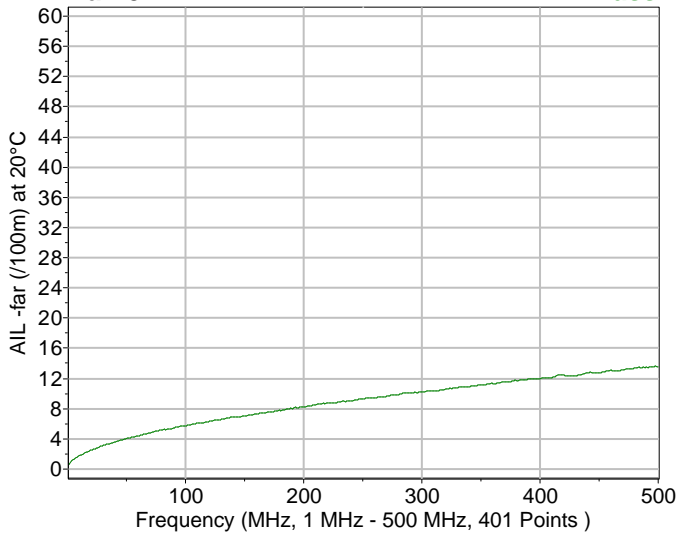
Pair	Start f	Stop f	Points	Minimum { v [f] }	Maximum { v [f] }	Result
1	1	500	401	0.57 [1]	13.78 [500]	ü
2	1	500	401	0.50 [1]	14.40 [500]	ü
3	1	500	401	0.56 [1]	13.61 [497.5]	ü
4	1	500	401	0.48 [1]	14.28 [500]	ü
5	1	500	401	0.56 [1]	13.51 [500]	ü
6	1	500	401	0.52 [1]	14.28 [500]	ü
7	1	500	401	0.59 [1]	13.49 [500]	ü
8	1	500	401	0.52 [1]	14.12 [500]	ü
9	1	500	401	0.57 [1]	13.87 [500]	ü
10	1	500	401	0.50 [1]	14.25 [500]	ü
11	1	500	401	0.56 [1]	13.64 [500]	ü
12	1	500	401	0.49 [1]	14.29 [500]	ü
13	1	500	401	0.57 [1]	13.81 [500]	ü
14	1	500	401	0.51 [1]	14.34 [500]	ü
15	1	500	401	0.57 [1]	13.55 [497.5]	ü
16	1	500	401	0.48 [1]	14.24 [500]	ü
17	1	500	401	0.57 [1]	13.48 [500]	ü
18	1	500	401	0.51 [1]	14.40 [500]	ü
19	1	500	401	0.57 [1]	13.40 [498.8]	ü
20	1	500	401	0.49 [1]	14.04 [500]	ü
21	1	500	401	0.57 [1]	13.60 [500]	ü
22	1	500	401	0.50 [1]	14.33 [500]	ü
23	1	500	401	0.57 [1]	13.29 [500]	ü
24	1	500	401	0.49 [1]	14.30 [500]	ü
25	1	500	401	0.57 [1]	13.65 [496.3]	ü
26	1	500	401	0.51 [1]	14.45 [500]	ü
27	1	500	401	0.57 [1]	13.56 [500]	ü
28	1	500	401	0.48 [1]	14.26 [500]	ü





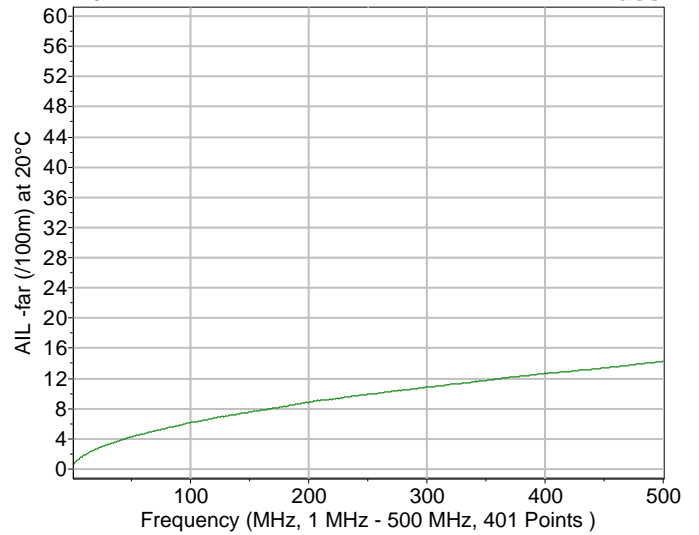
Pair 3

Pass



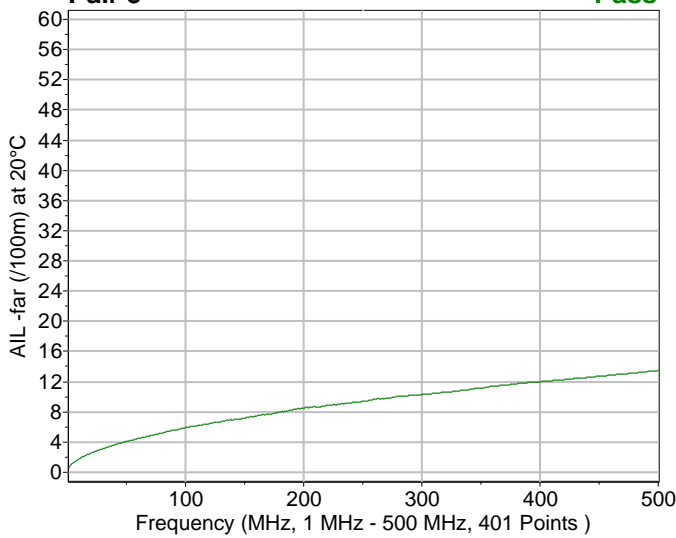
Pair 4

Pass



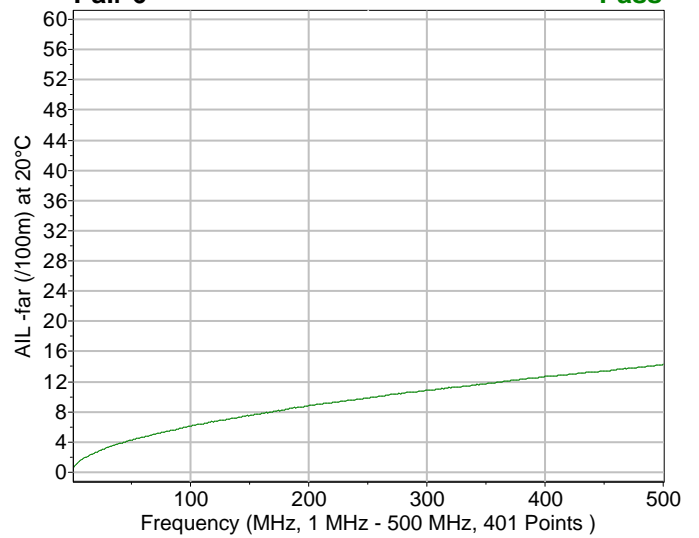
Pair 5

Pass



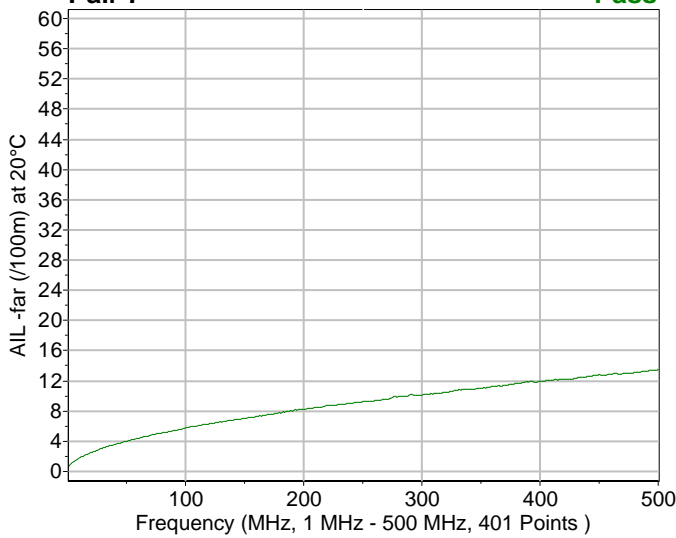
Pair 6

Pass



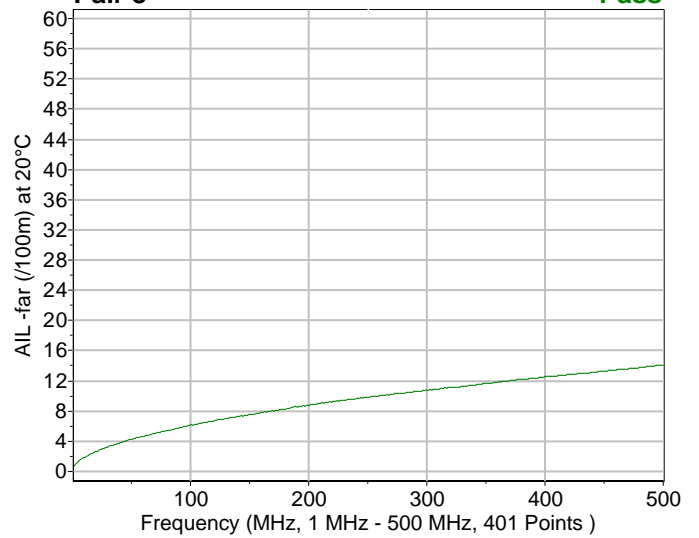
Pair 7

Pass



Pair 8

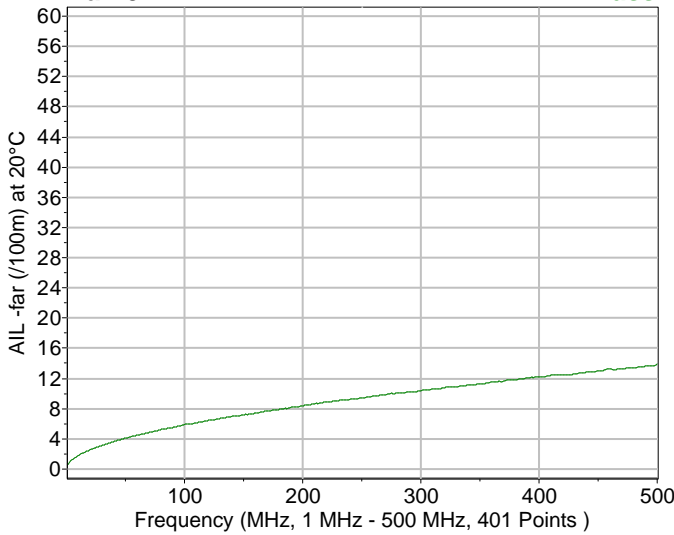
Pass





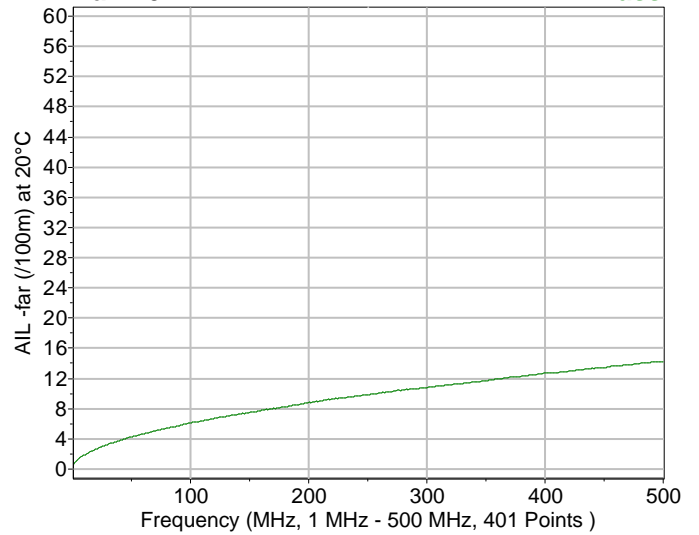
Pair 9

Pass



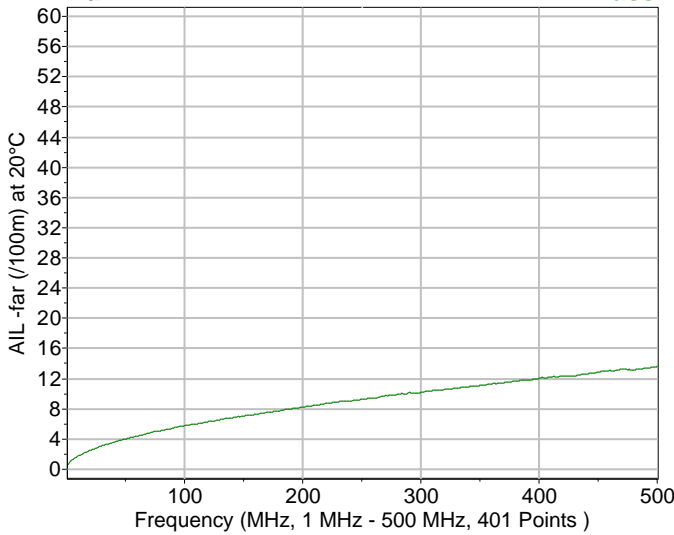
Pair 10

Pass



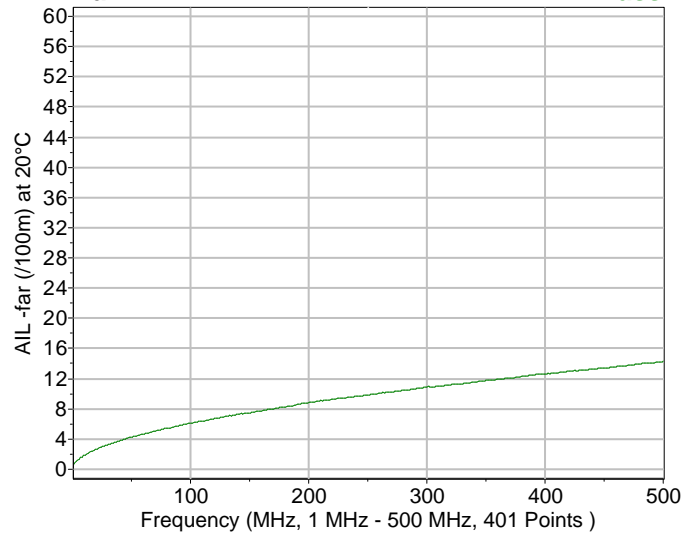
Pair 11

Pass



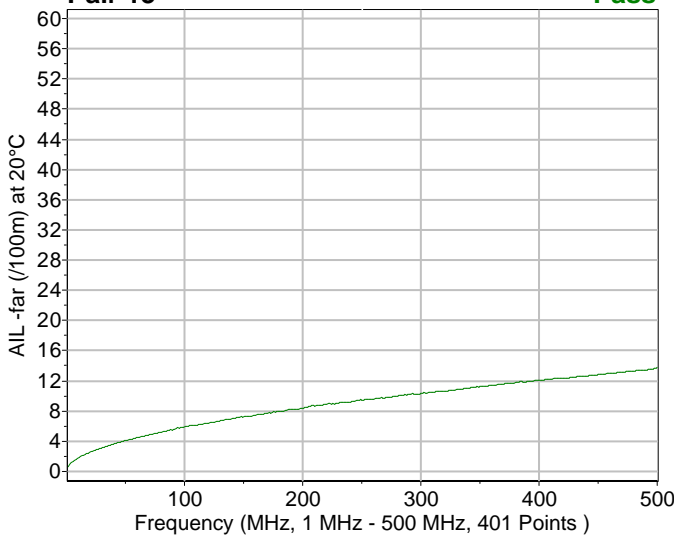
Pair 12

Pass



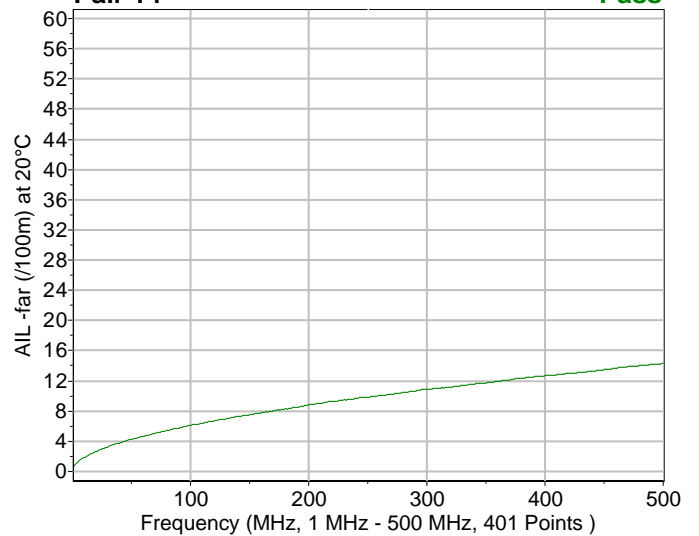
Pair 13

Pass



Pair 14

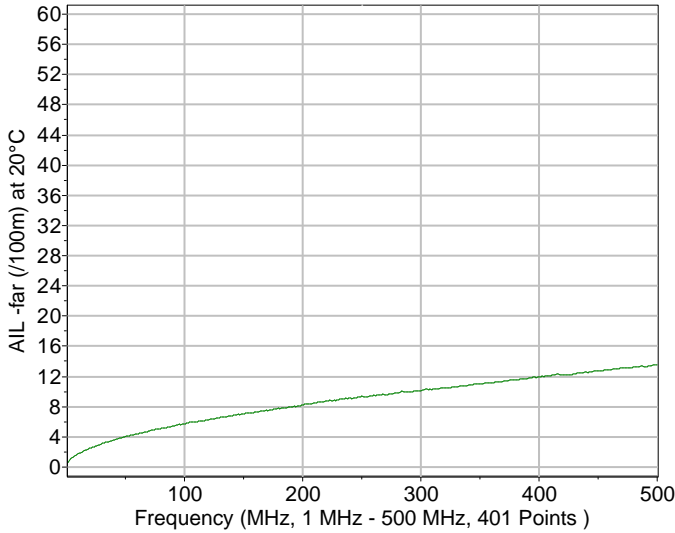
Pass





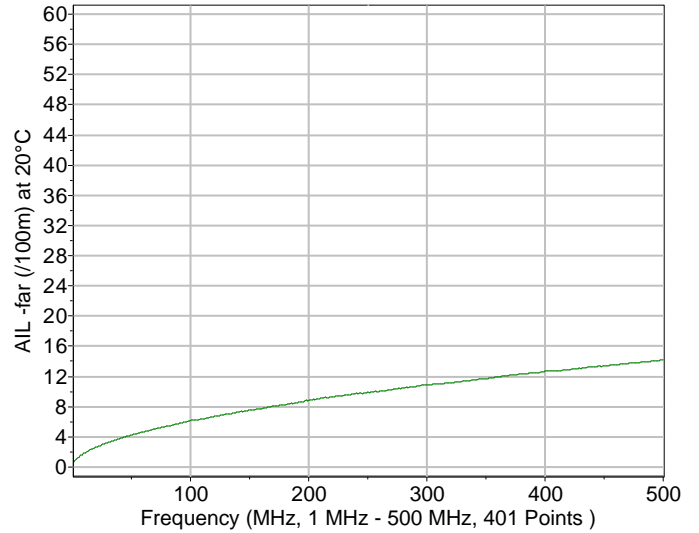
Pair 15

Pass



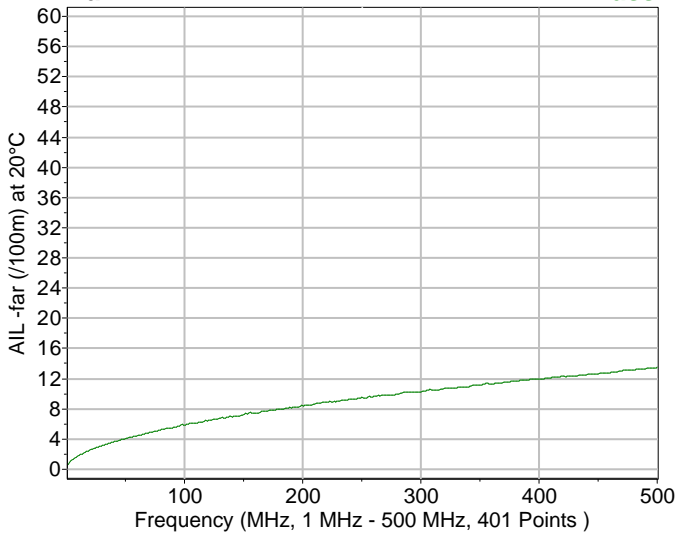
Pair 16

Pass



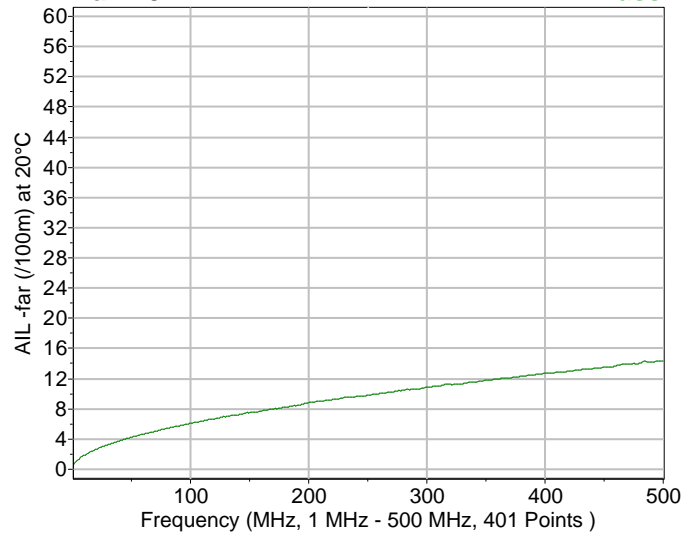
Pair 17

Pass



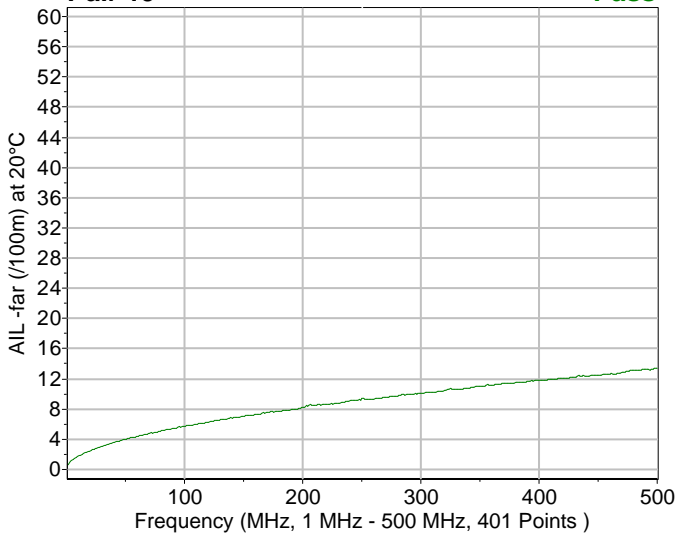
Pair 18

Pass



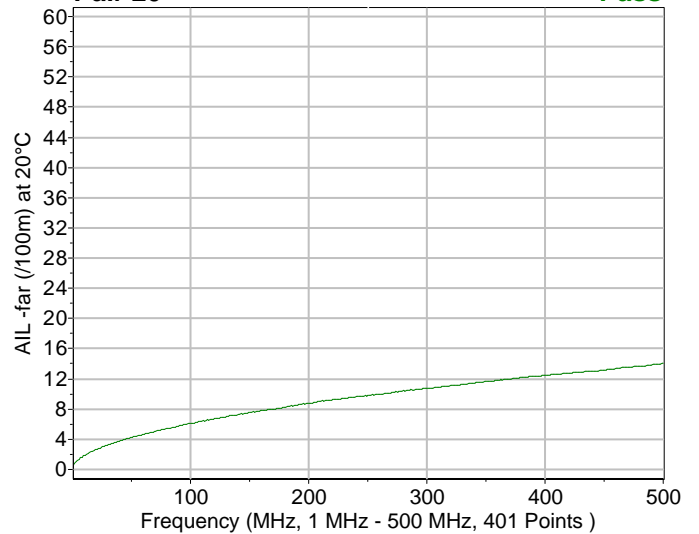
Pair 19

Pass



Pair 20

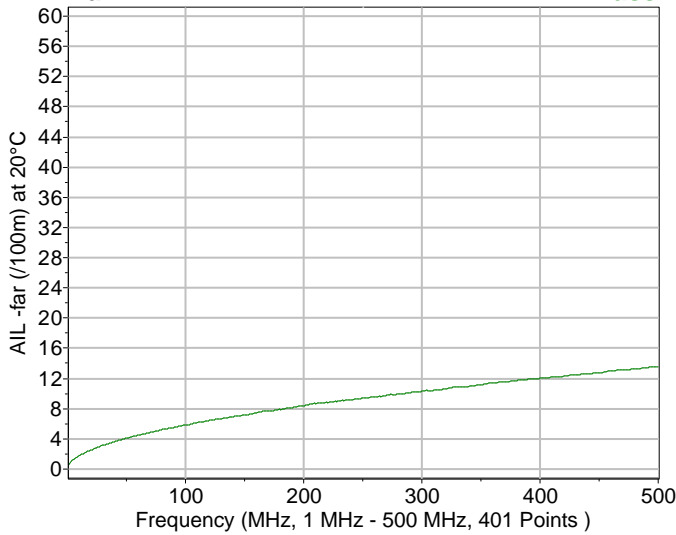
Pass





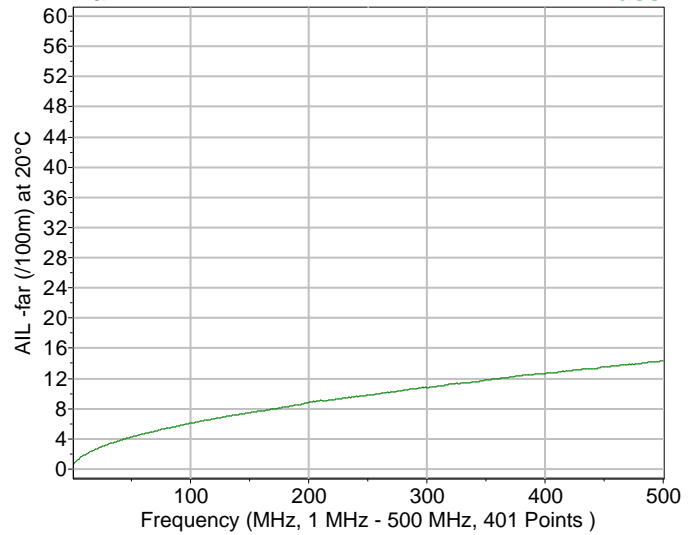
Pair 21

Pass



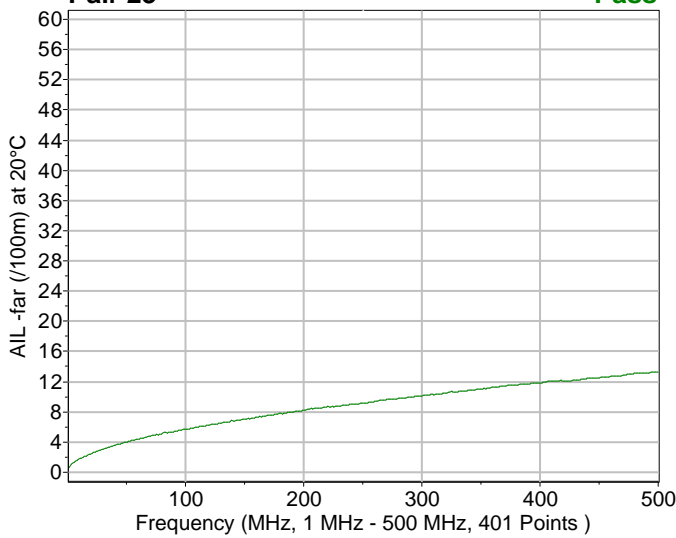
Pair 22

Pass



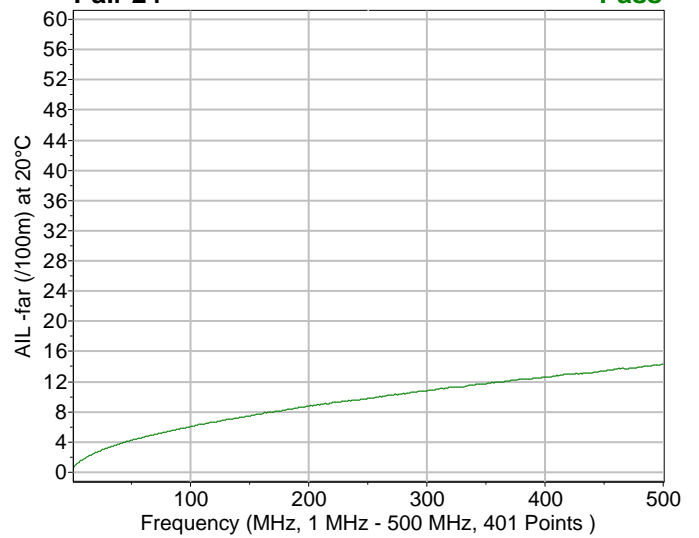
Pair 23

Pass



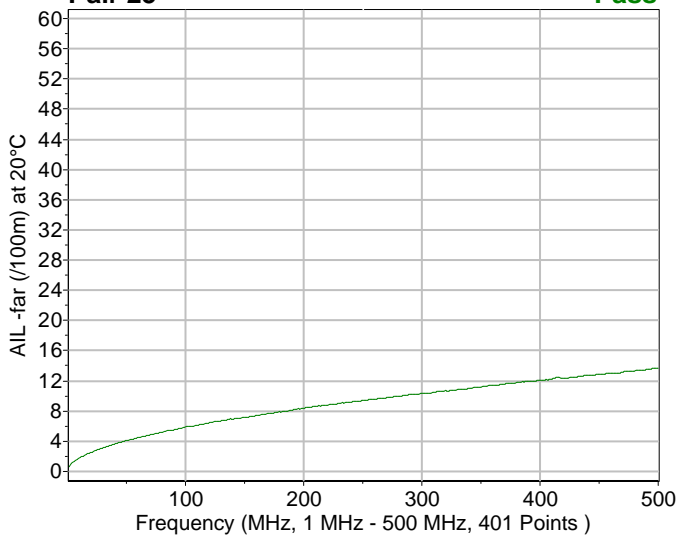
Pair 24

Pass



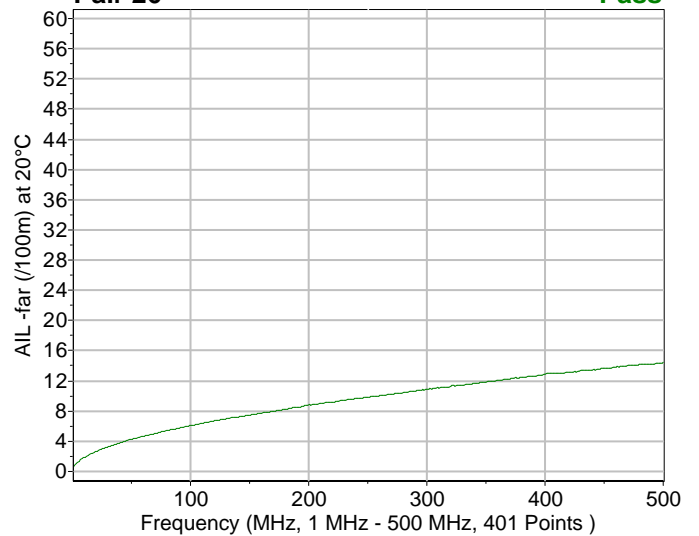
Pair 25

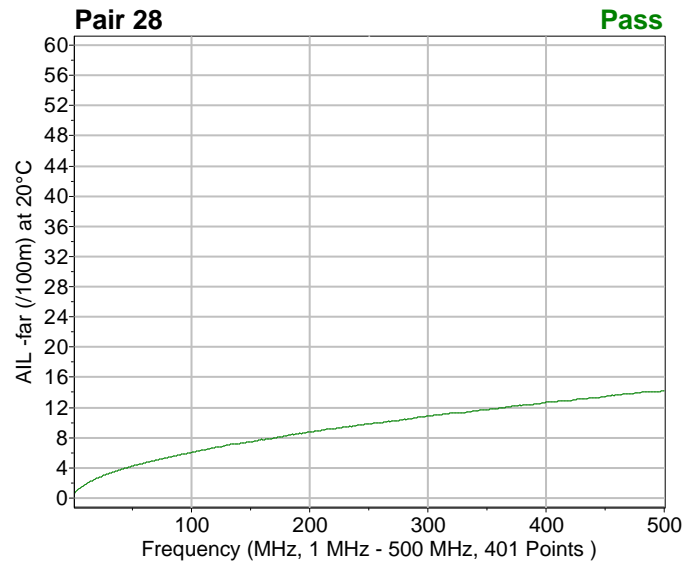
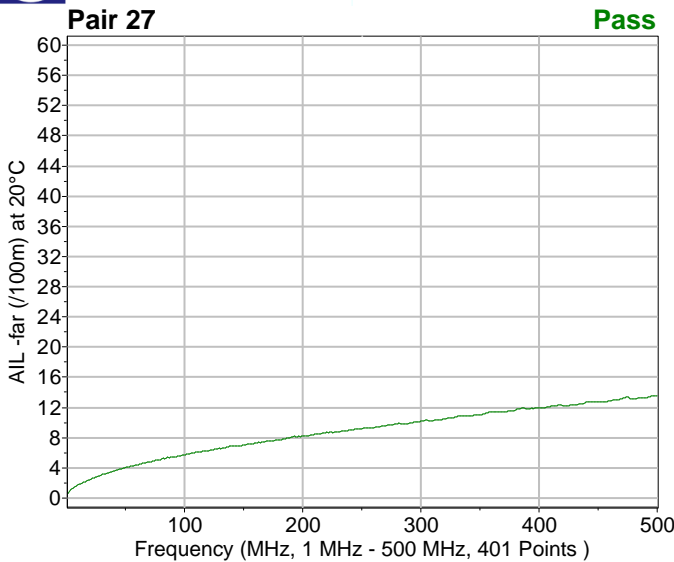
Pass



Pair 26

Pass





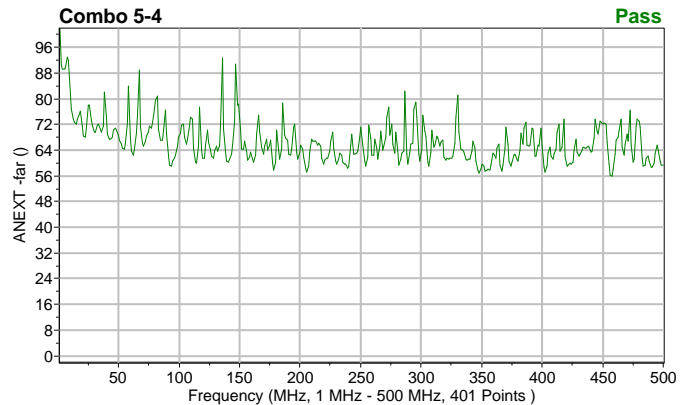
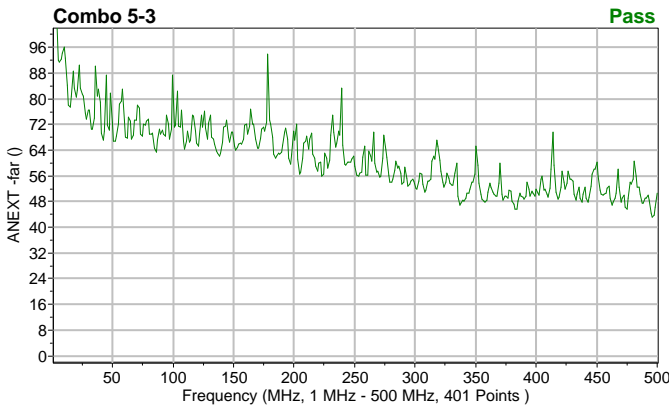
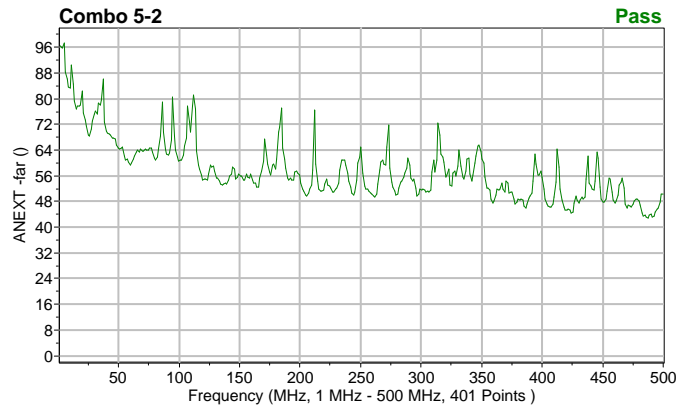
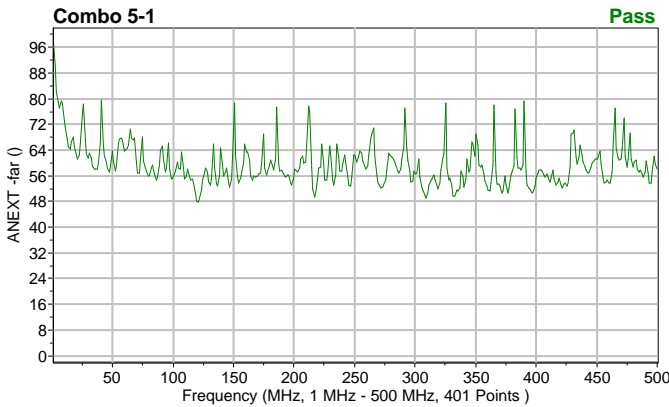
Summary and Graphic: Alien Near End Crosstalk -far (ANEXT -far)

{ v = Value () l = Limit () m = Margin () f = Frequency (MHz) }

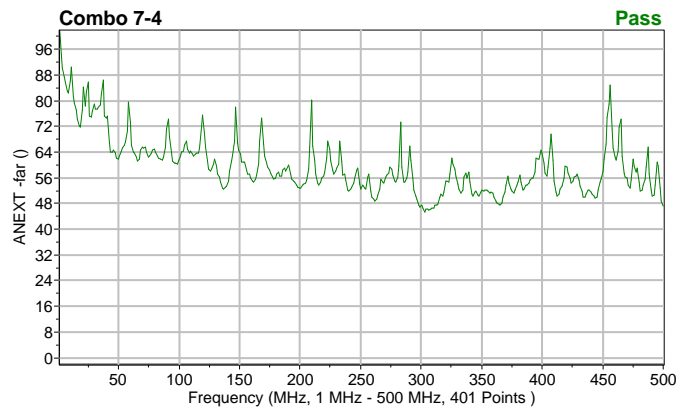
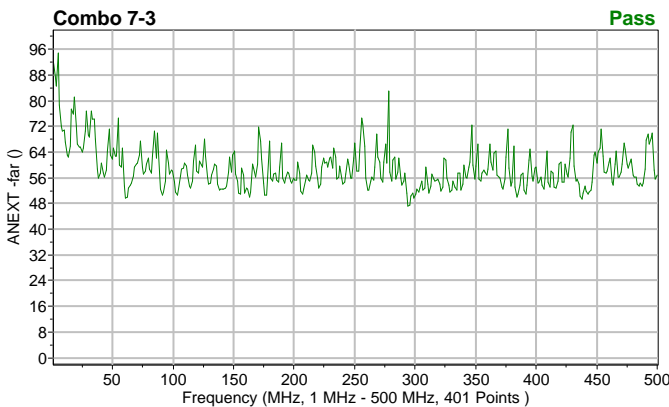
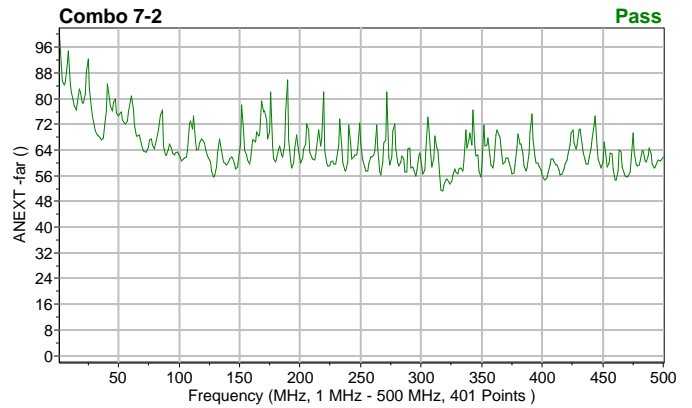
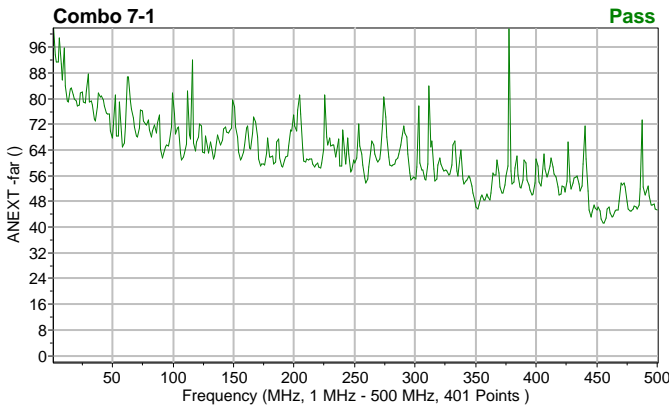
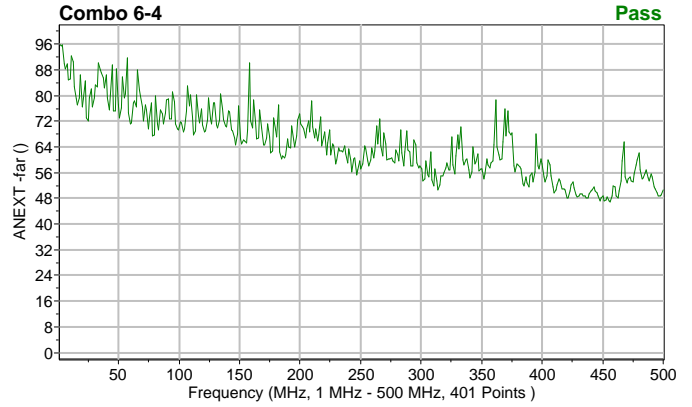
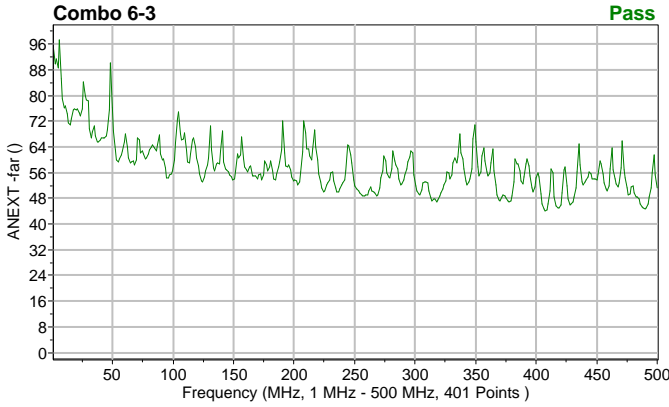
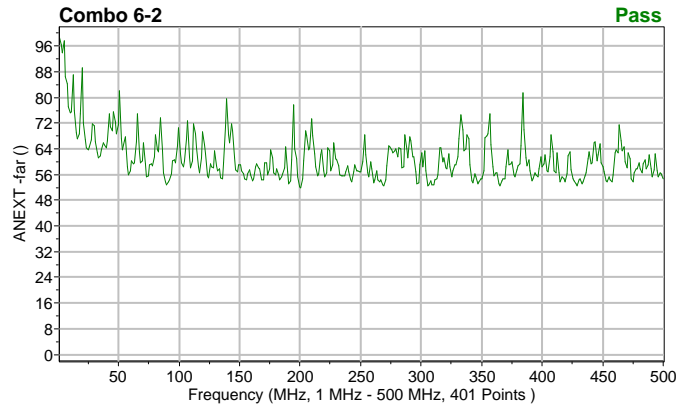
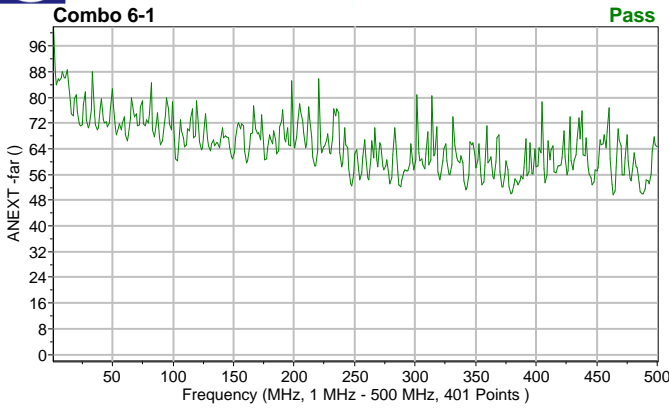
Combo	Start f	Stop f	Points	Minimum { v [f] }	Maximum { v [f] }	Result
5-1	1	500	401	47.7 [120.8]	98.2 [1]	ü
5-2	1	500	401	42.8 [487.5]	97.4 [4.742]	ü
5-3	1	500	401	43.0 [496.3]	112.2 [1]	ü
5-4	1	500	401	55.9 [457.6]	107.0 [1]	ü
6-1	1	500	401	49.7 [463.8]	104.0 [1]	ü
6-2	1	500	401	51.9 [200.6]	98.8 [1]	ü
6-3	1	500	401	44.0 [407.7]	97.4 [5.99]	ü
6-4	1	500	401	47.0 [456.3]	96.1 [1]	ü
7-1	1	500	401	41.4 [456.3]	103.5 [1]	ü
7-2	1	500	401	51.3 [317.9]	100.9 [1]	ü
7-3	1	500	401	47.3 [294.2]	94.9 [4.742]	ü
7-4	1	500	401	45.5 [302.9]	104.1 [1]	ü
8-1	1	500	401	45.6 [488.8]	101.8 [1]	ü
8-2	1	500	401	49.3 [463.8]	101.4 [1]	ü
8-3	1	500	401	53.0 [483.8]	106.5 [7.237]	ü
8-4	1	500	401	50.8 [268]	96.9 [2.247]	ü
9-1	1	500	401	49.1 [234.3]	98.0 [3.495]	ü
9-2	1	500	401	53.7 [397.7]	105.5 [2.247]	ü
9-3	1	500	401	42.1 [488.8]	94.2 [1]	ü
9-4	1	500	401	45.4 [493.8]	98.2 [1]	ü
10-1	1	500	401	40.2 [475]	107.6 [1]	ü
10-2	1	500	401	51.6 [195.6]	99.0 [1]	ü
10-3	1	500	401	53.5 [493.8]	99.1 [2.247]	ü
10-4	1	500	401	47.8 [458.8]	104.4 [28.44]	ü
11-1	1	500	401	43.1 [468.8]	99.5 [1]	ü
11-2	1	500	401	44.2 [344.1]	100.4 [1]	ü
11-3	1	500	401	47.0 [88.32]	101.0 [1]	ü
11-4	1	500	401	53.8 [369]	110.2 [7.237]	ü
12-1	1	500	401	54.1 [496.3]	97.0 [1]	ü
12-2	1	500	401	45.6 [443.9]	106.2 [2.247]	ü
12-3	1	500	401	46.1 [473.8]	100.6 [1]	ü
12-4	1	500	401	53.8 [279.2]	93.8 [3.495]	ü
13-1	1	500	401	47.1 [241.8]	89.2 [1]	ü
13-2	1	500	401	50.7 [446.4]	101.6 [4.742]	ü
13-3	1	500	401	42.9 [447.6]	99.7 [2.247]	ü
13-4	1	500	401	46.1 [411.4]	98.1 [1]	ü
14-1	1	500	401	40.9 [495]	97.7 [3.495]	ü
14-2	1	500	401	52.8 [196.9]	95.9 [1]	ü
14-3	1	500	401	53.2 [364]	101.2 [53.39]	ü
14-4	1	500	401	45.9 [417.7]	101.9 [12.23]	ü
15-1	1	500	401	42.0 [486.3]	115.2 [1]	ü
15-2	1	500	401	43.0 [397.7]	98.4 [5.99]	ü
15-3	1	500	401	49.0 [149.5]	89.4 [1]	ü
15-4	1	500	401	54.8 [460.1]	109.0 [1]	ü
16-1	1	500	401	56.9 [430.1]	95.1 [90.82]	ü
16-2	1	500	401	42.5 [485]	99.1 [1]	ü
16-3	1	500	401	43.4 [463.8]	95.9 [2.247]	ü
16-4	1	500	401	53.1 [134.5]	98.3 [428.9]	ü
17-1	1	500	401	45.6 [254.2]	104.0 [1]	ü
17-2	1	500	401	42.9 [420.2]	111.8 [2.247]	ü
17-3	1	500	401	41.3 [497.5]	108.8 [1]	ü

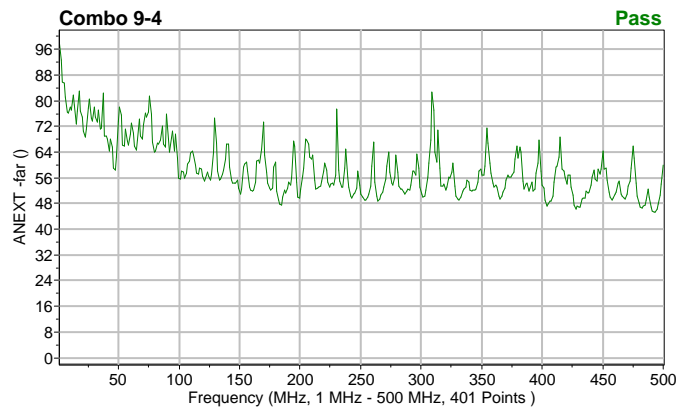
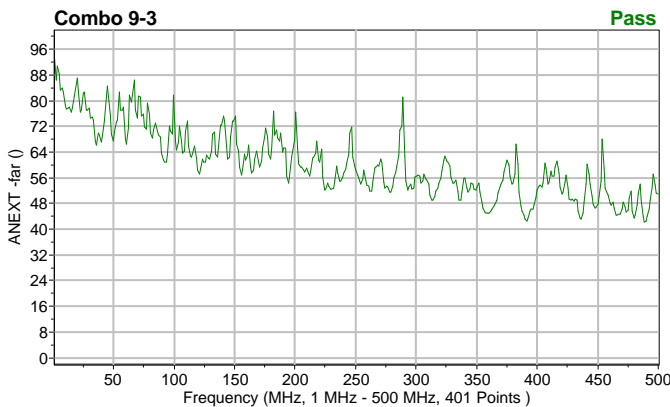
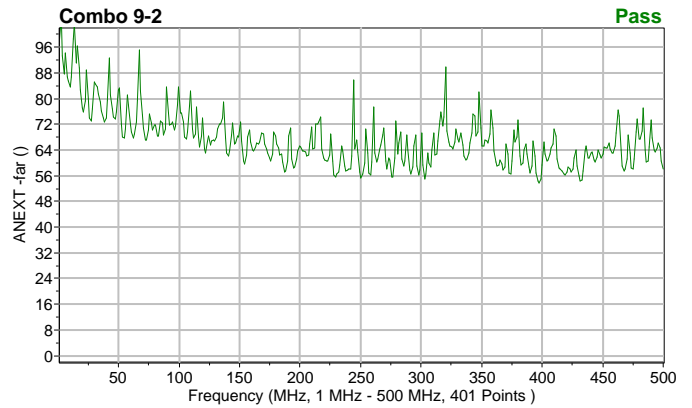
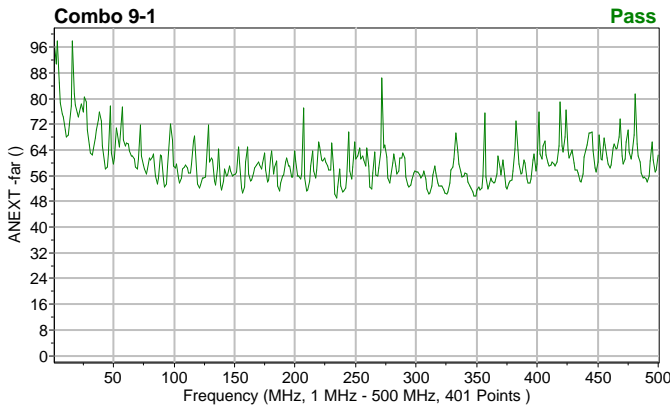
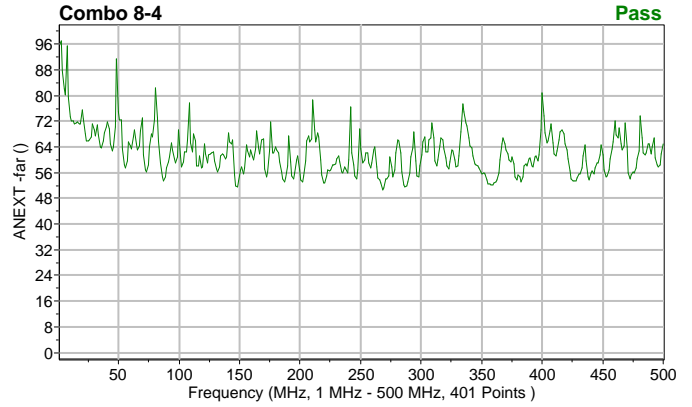
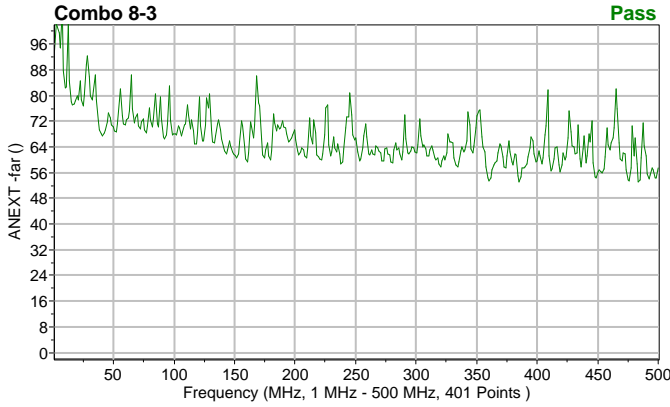
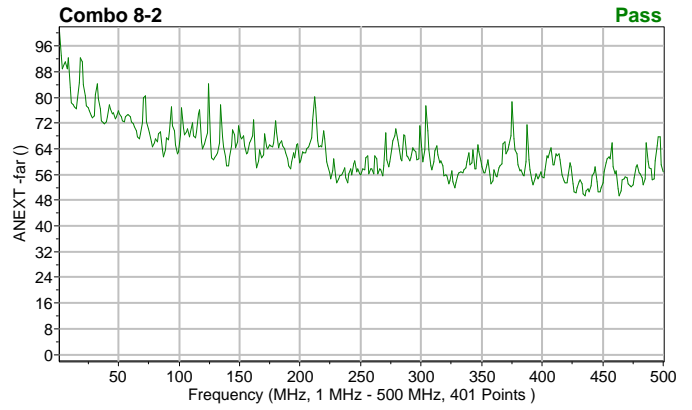
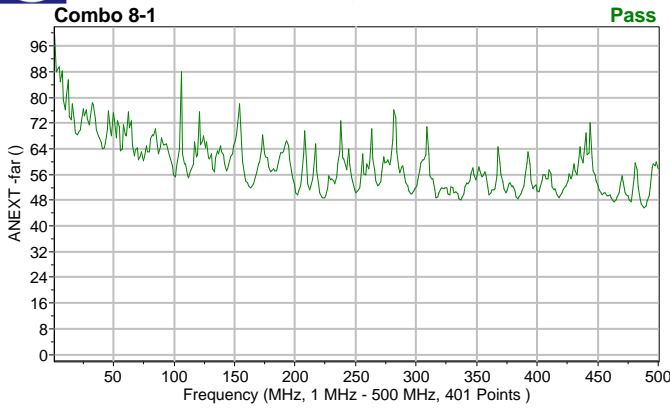


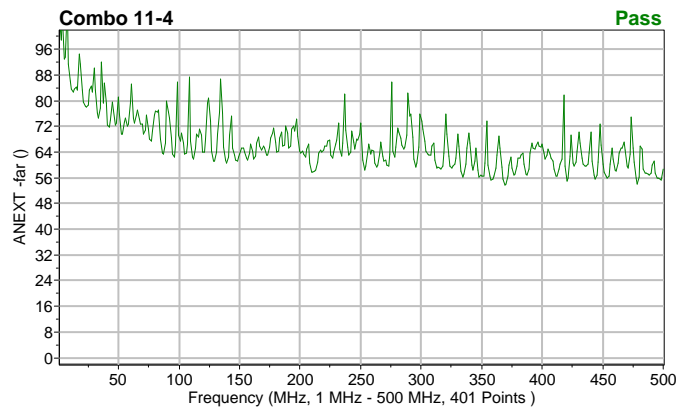
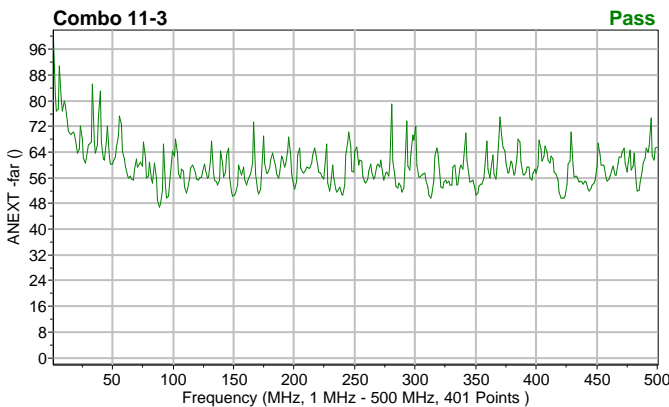
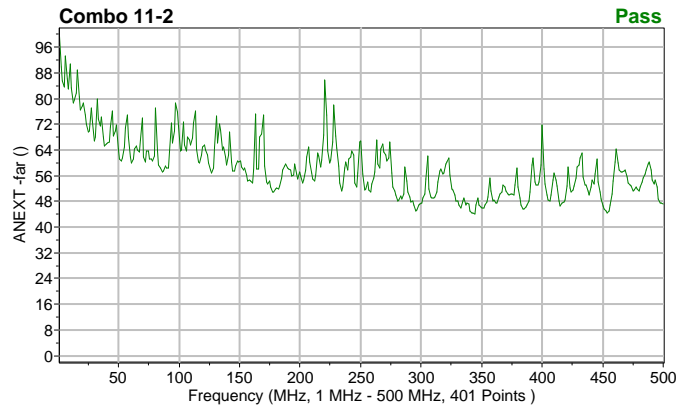
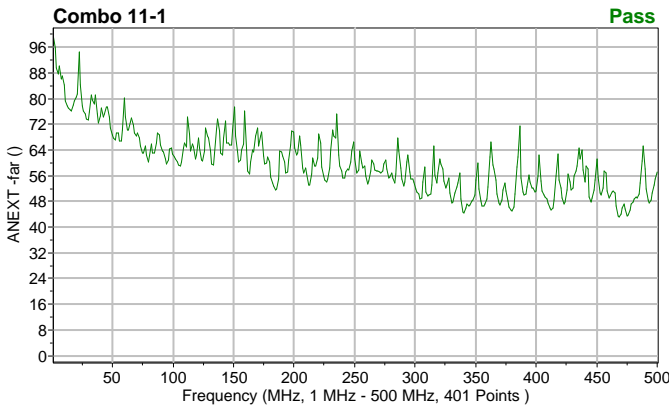
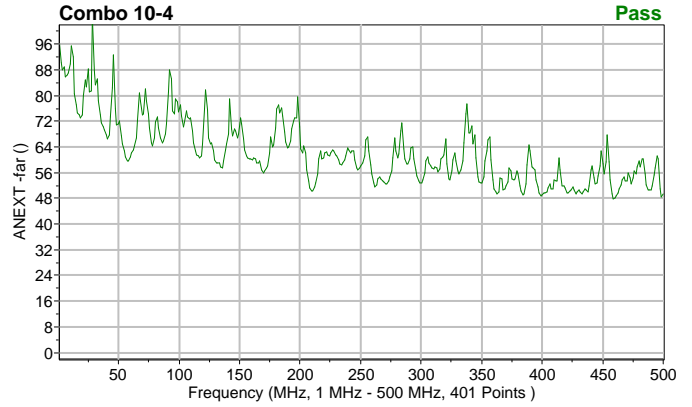
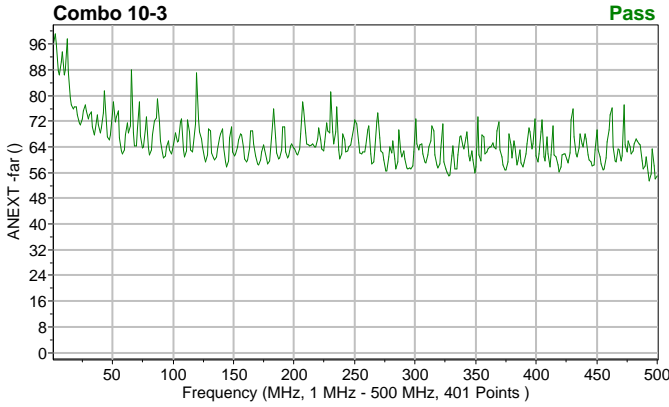
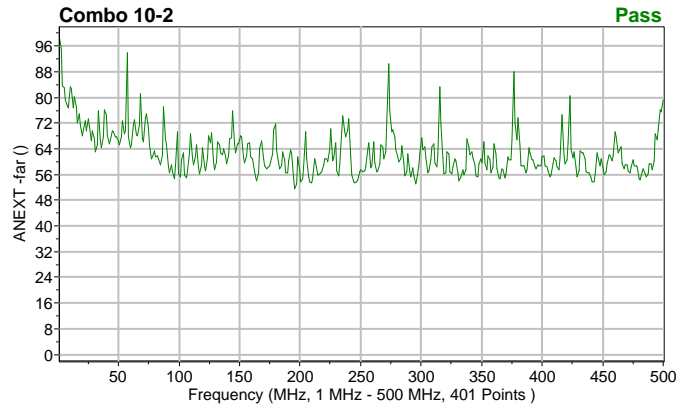
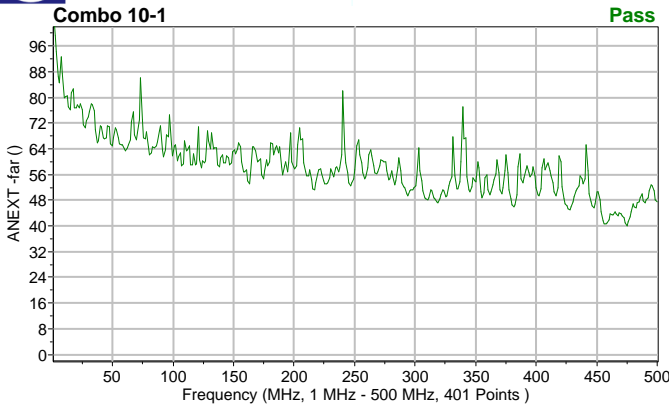
17-4	1	500	401	50.7 [481.3]	103.1 [2.247]	ü
18-1	1	500	401	48.2 [445.1]	97.2 [2.247]	ü
18-2	1	500	401	42.9 [201.8]	78.1 [1]	ü
18-3	1	500	401	44.7 [392.7]	90.0 [2.247]	ü
18-4	1	500	401	47.0 [273]	88.8 [8.485]	ü
19-1	1	500	401	42.5 [458.8]	103.0 [1]	ü
19-2	1	500	401	49.6 [455.1]	104.4 [2.247]	ü
19-3	1	500	401	45.8 [472.6]	95.4 [4.742]	ü
19-4	1	500	401	47.2 [374]	106.0 [1]	ü
20-1	1	500	401	46.6 [399]	90.7 [5.99]	ü
20-2	1	500	401	47.3 [495]	100.5 [4.742]	ü
20-3	1	500	401	49.9 [431.4]	100.1 [53.39]	ü
20-4	1	500	401	52.1 [281.7]	101.0 [1]	ü
21-1	1	500	401	46.4 [346.6]	103.6 [3.495]	ü
21-2	1	500	401	46.3 [428.9]	106.4 [1]	ü
21-3	1	500	401	42.6 [458.8]	106.1 [1]	ü
21-4	1	500	401	46.6 [483.8]	100.3 [14.72]	ü
22-1	1	500	401	43.9 [496.3]	95.8 [1]	ü
22-2	1	500	401	50.2 [253]	101.5 [1]	ü
22-3	1	500	401	45.6 [466.3]	104.0 [1]	ü
22-4	1	500	401	45.5 [485]	103.5 [2.247]	ü
23-1	1	500	401	39.0 [486.3]	105.4 [3.495]	ü
23-2	1	500	401	46.4 [381.5]	95.2 [2.247]	ü
23-3	1	500	401	46.0 [496.3]	89.6 [1]	ü
23-4	1	500	401	42.9 [467.6]	100.8 [1]	ü
24-1	1	500	401	48.4 [370.3]	104.9 [1]	ü
24-2	1	500	401	45.3 [471.3]	102.7 [1]	ü
24-3	1	500	401	47.1 [391.5]	99.8 [7.237]	ü
24-4	1	500	401	50.9 [360.3]	92.8 [48.4]	ü
25-1	1	500	401	47.7 [273]	96.1 [1]	ü
25-2	1	500	401	41.5 [457.6]	97.6 [1]	ü
25-3	1	500	401	45.0 [475]	108.7 [1]	ü
25-4	1	500	401	53.9 [259.2]	113.2 [1]	ü
26-1	1	500	401	49.9 [455.1]	113.0 [17.22]	ü
26-2	1	500	401	49.4 [203.1]	99.5 [1]	ü
26-3	1	500	401	43.0 [466.3]	94.8 [1]	ü
26-4	1	500	401	48.7 [384]	109.3 [50.9]	ü
27-1	1	500	401	42.6 [498.8]	99.6 [1]	ü
27-2	1	500	401	50.3 [381.5]	97.5 [1]	ü
27-3	1	500	401	43.5 [168.2]	91.5 [17.22]	ü
27-4	1	500	401	43.8 [496.3]	98.7 [1]	ü
28-1	1	500	401	45.4 [473.8]	99.1 [2.247]	ü
28-2	1	500	401	49.1 [339.1]	105.3 [1]	ü
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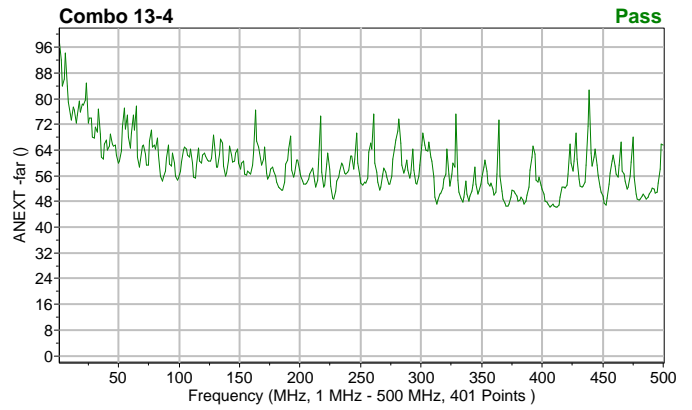
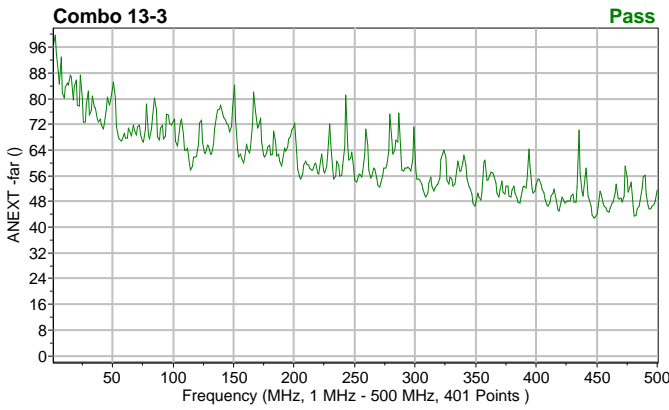
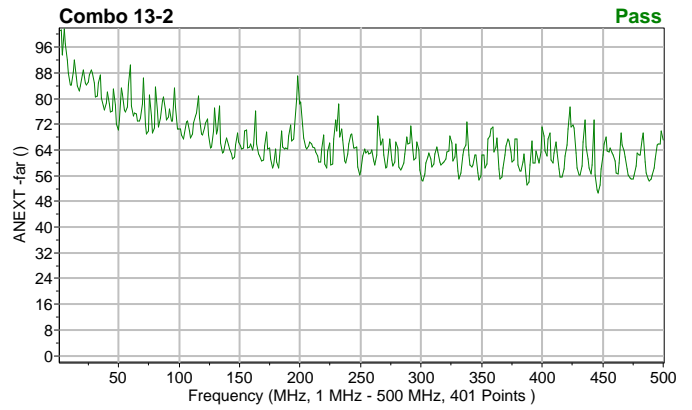
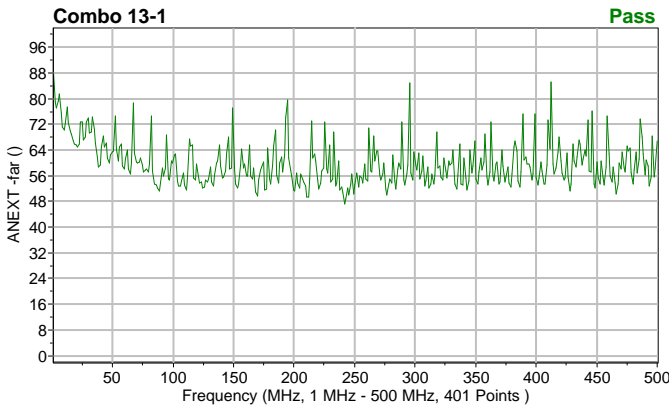
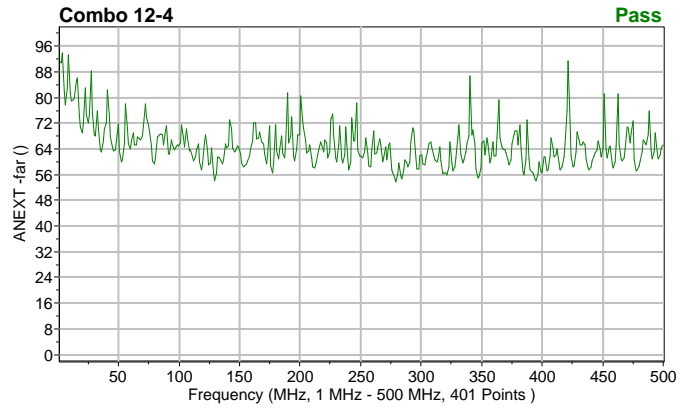
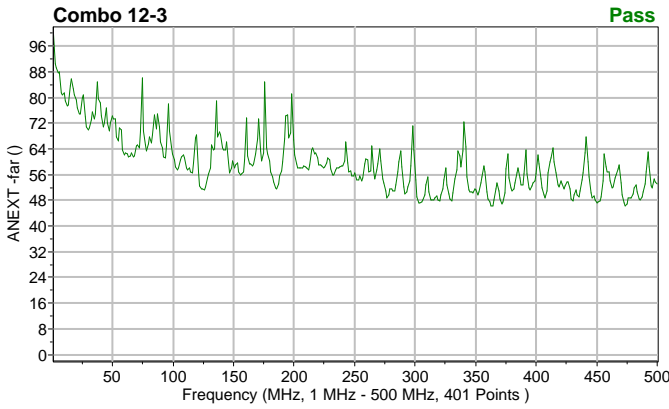
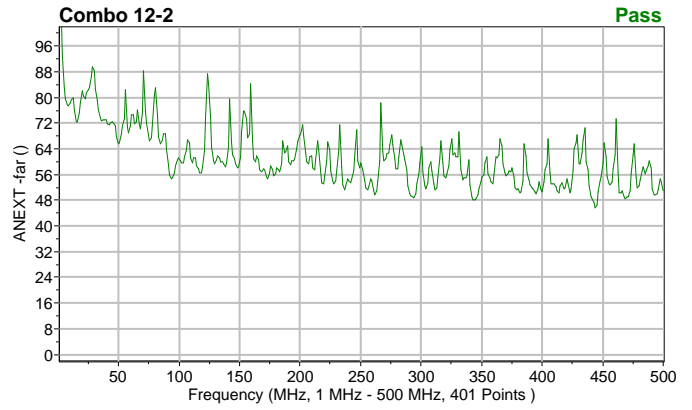
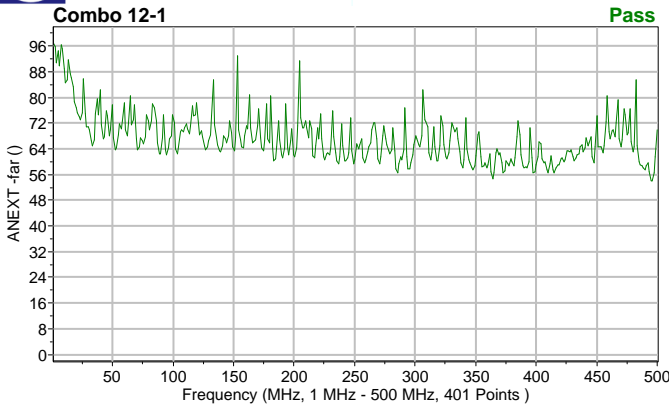


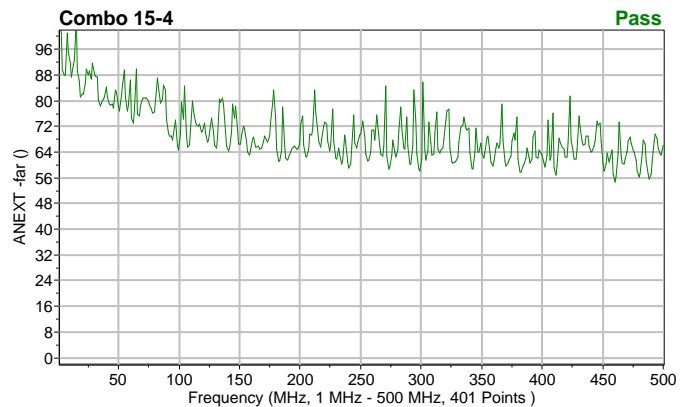
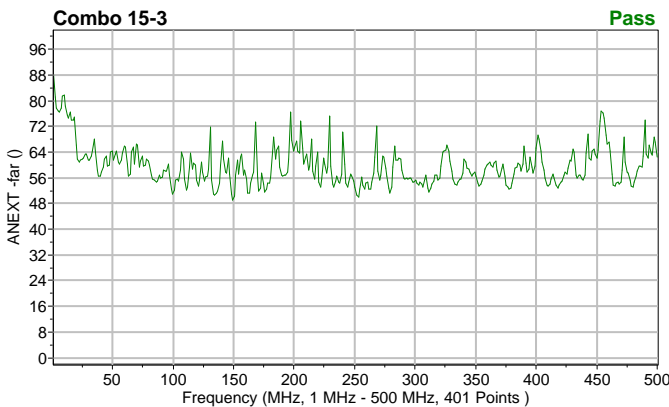
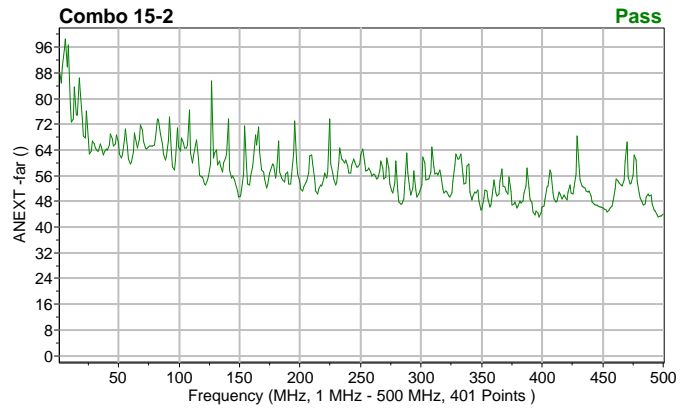
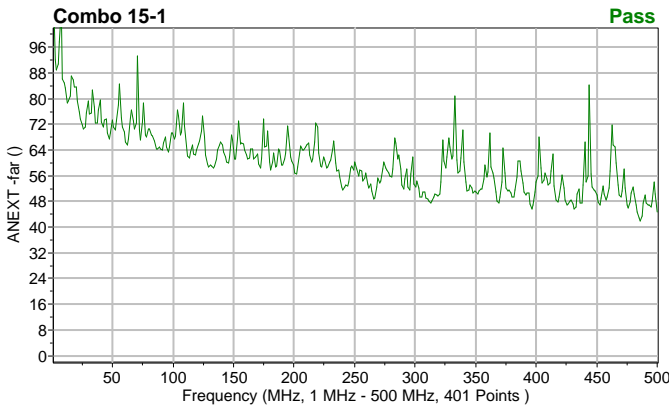
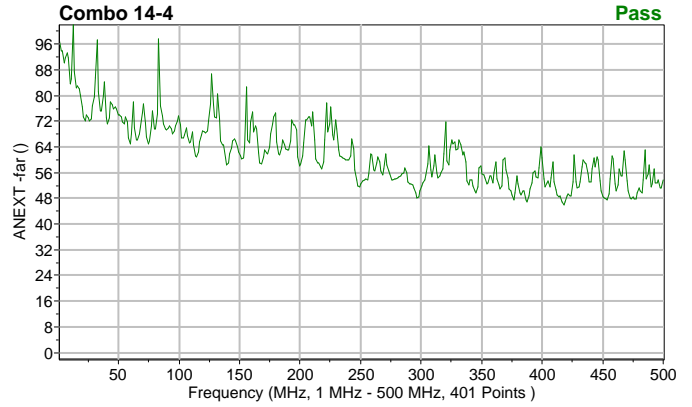
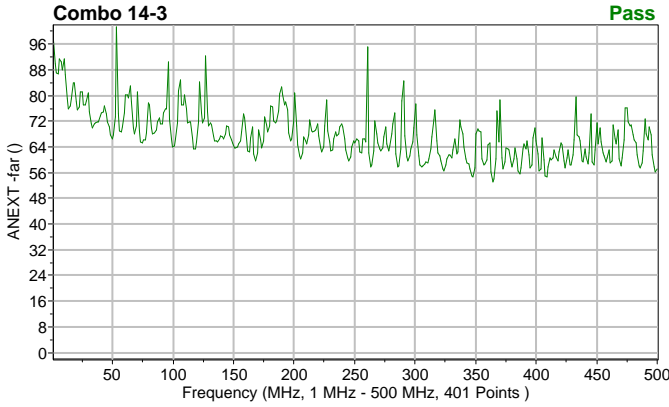
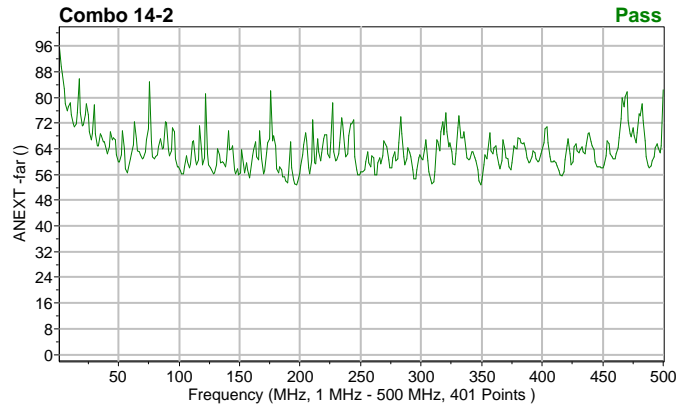
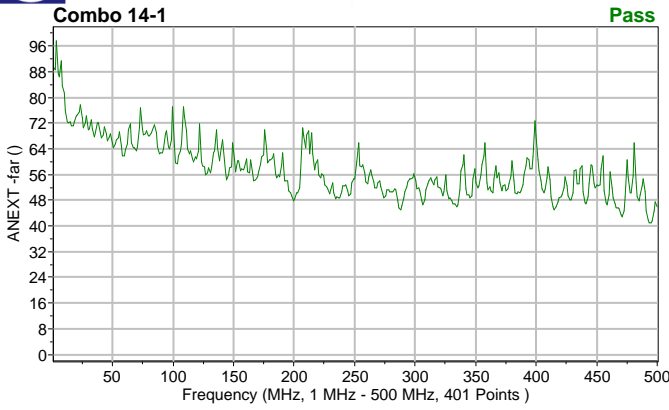
Powered by IQ 3.0.2016-02-23 (23.02.16), AESA GmbH System Development, Praemienstr. 9, D-52223 Stolberg

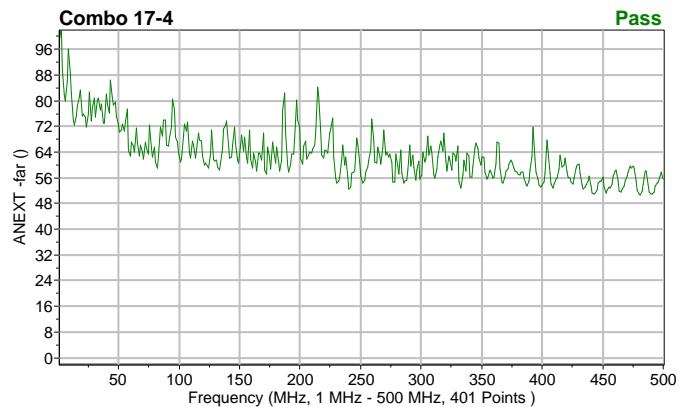
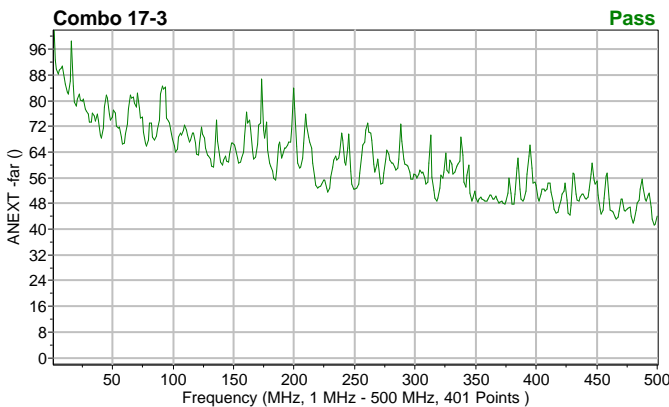
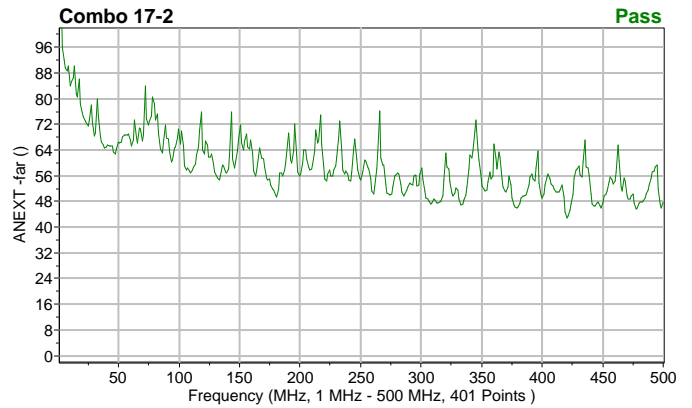
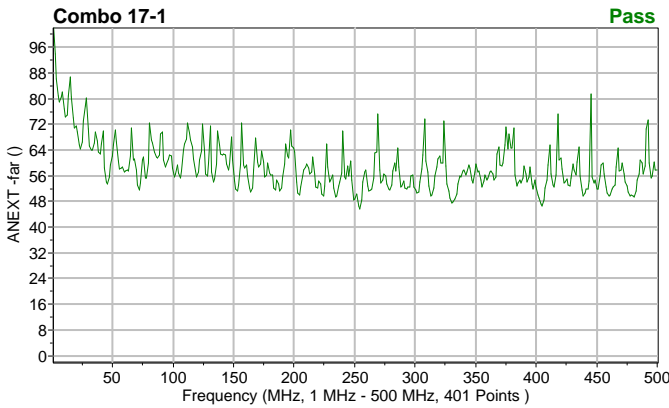
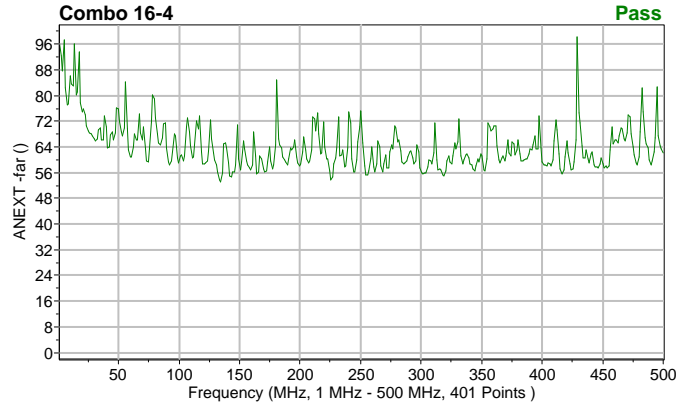
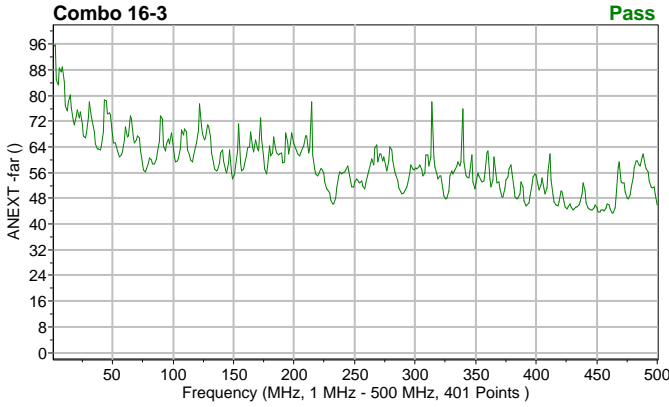
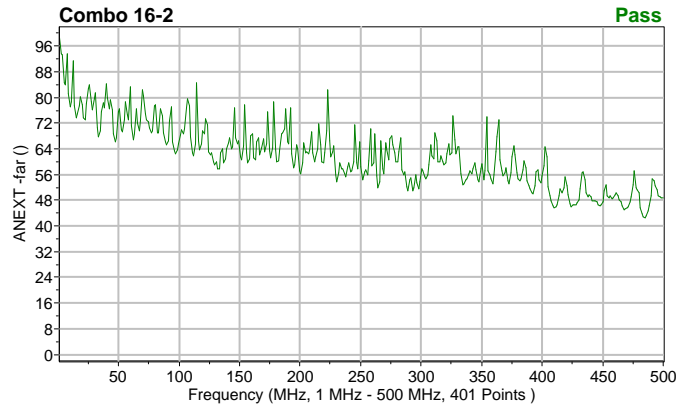
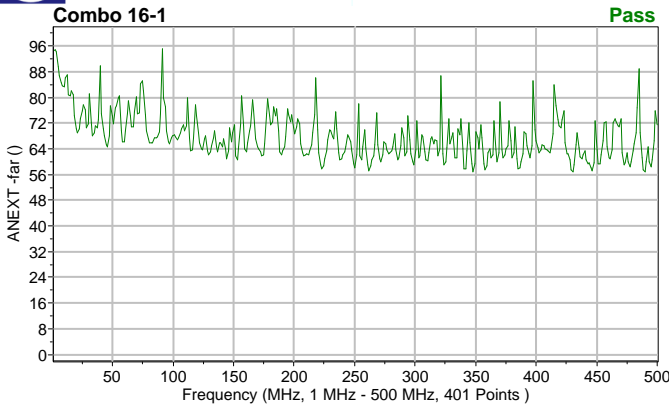


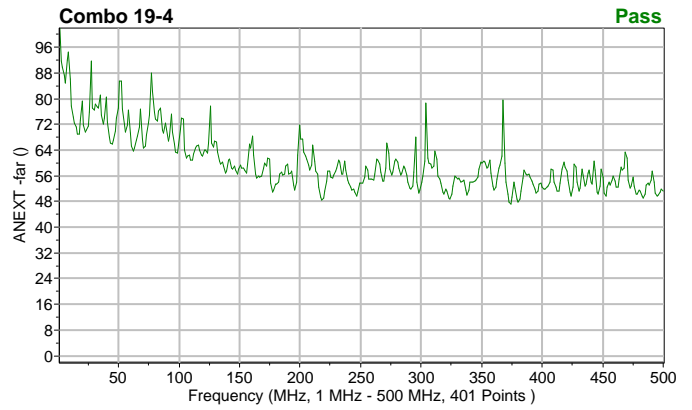
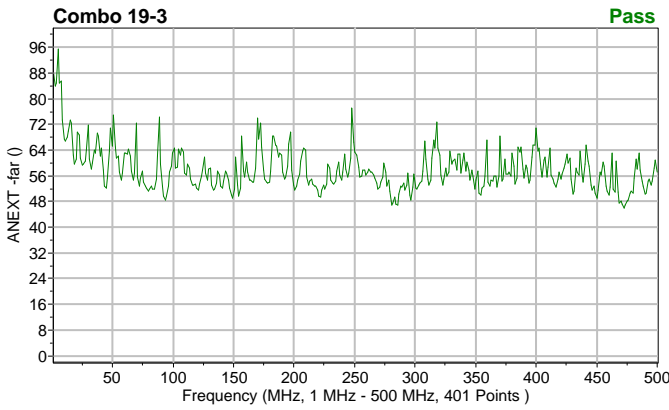
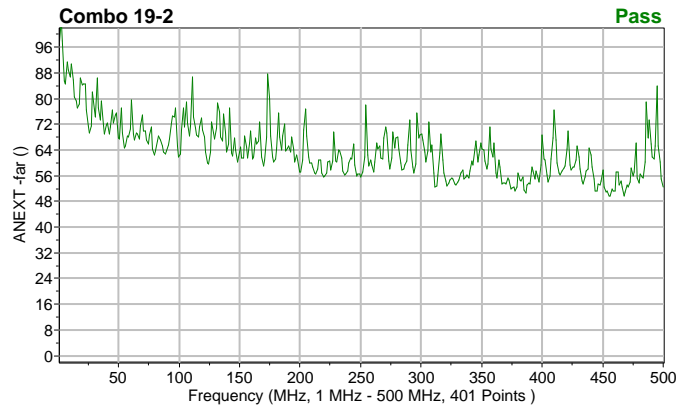
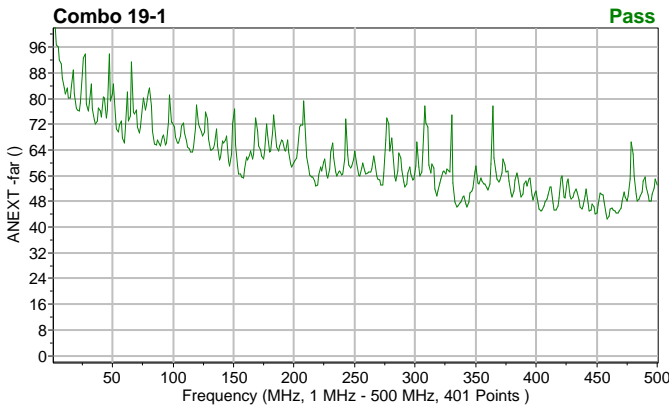
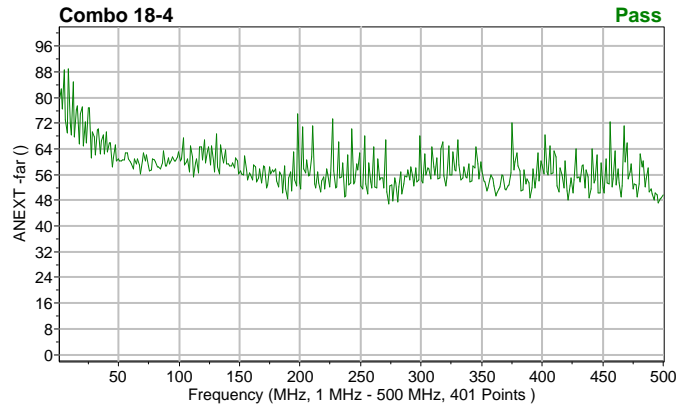
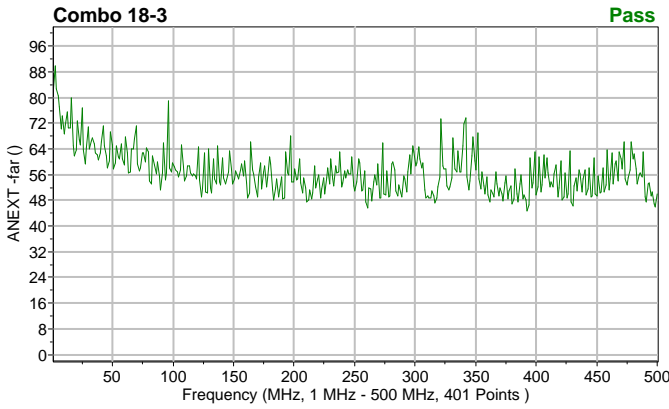
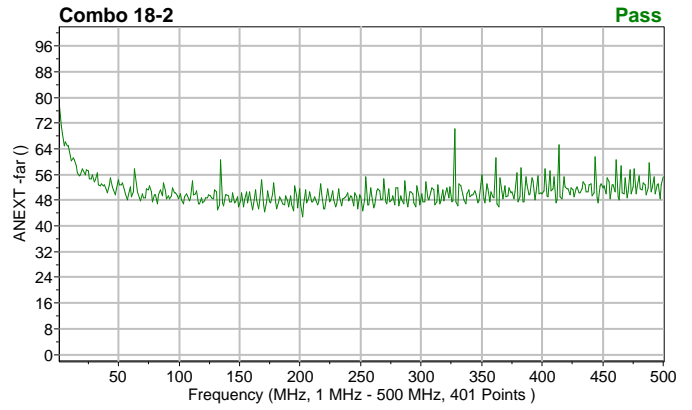
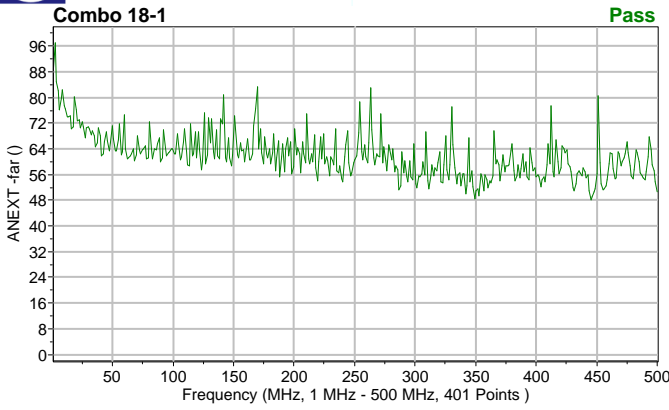


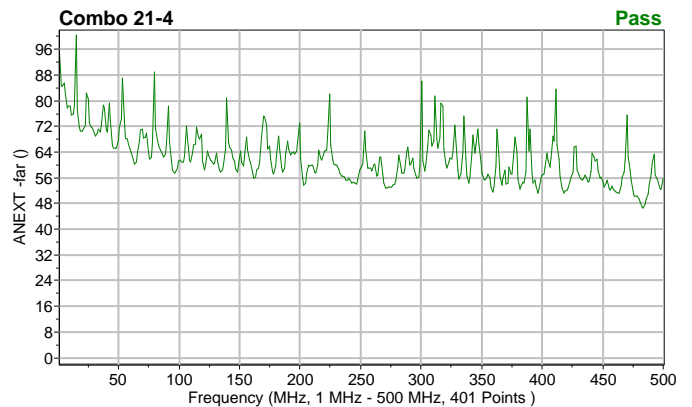
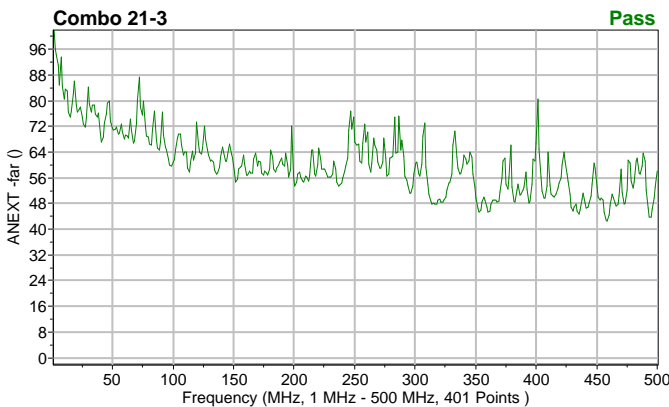
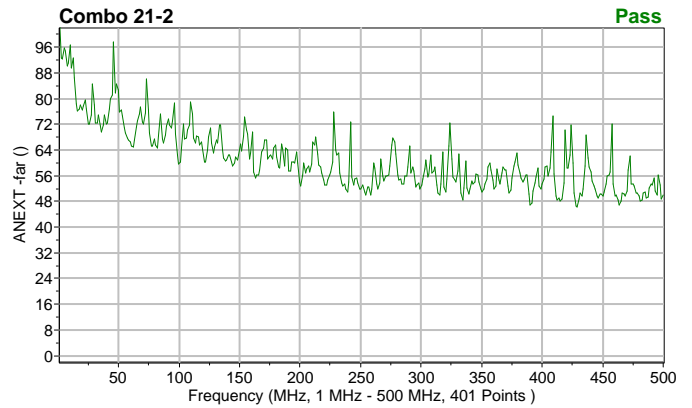
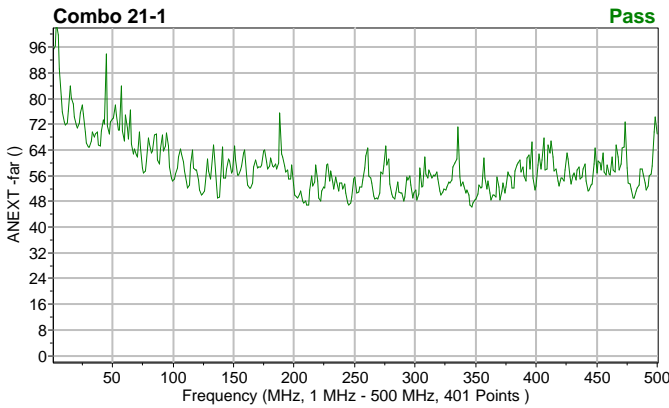
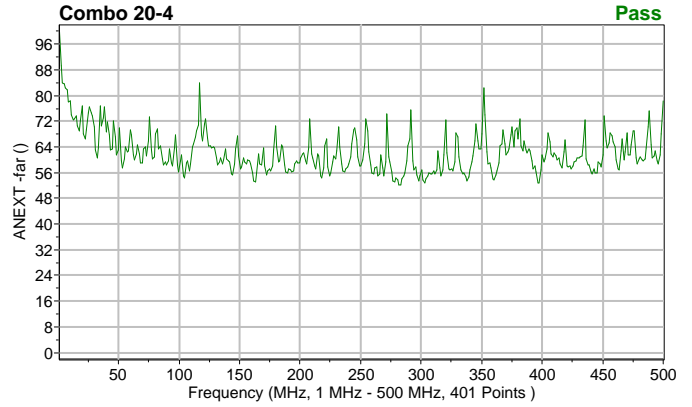
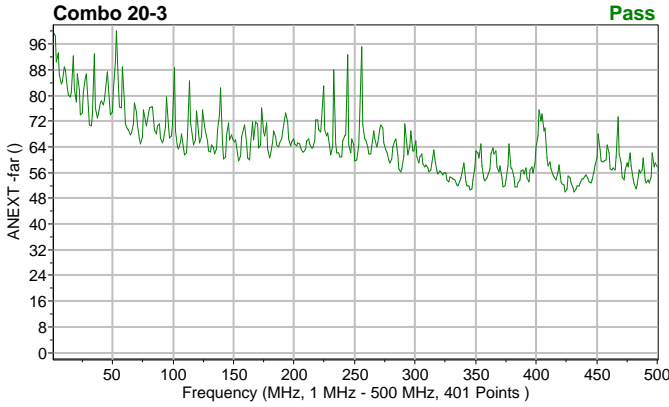
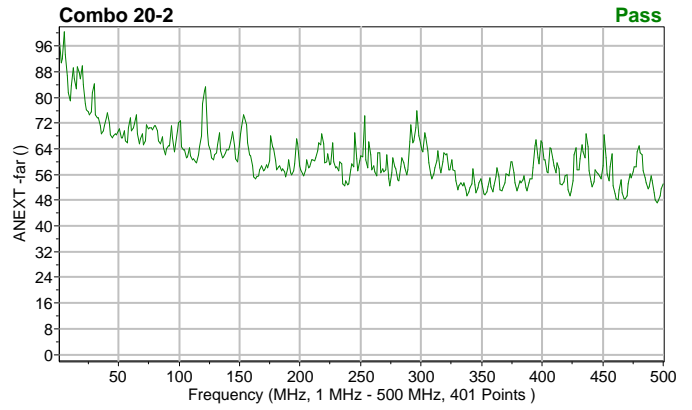
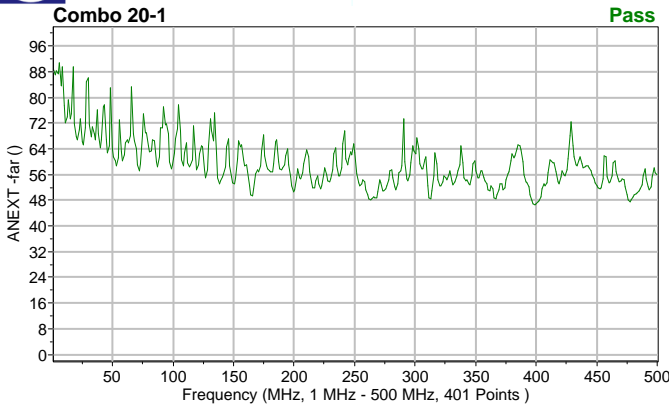


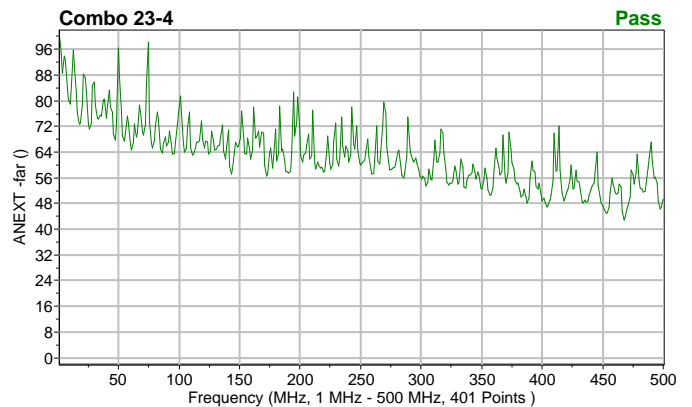
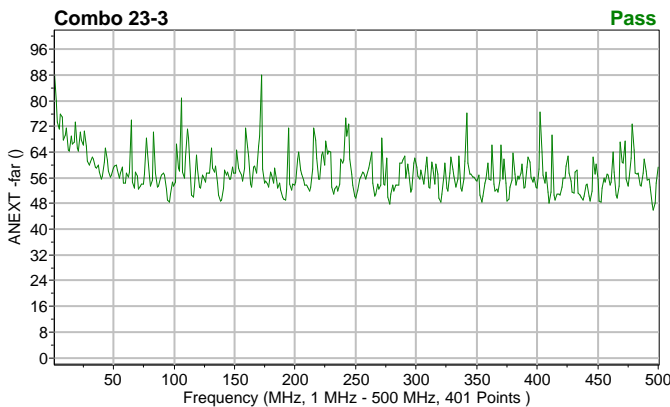
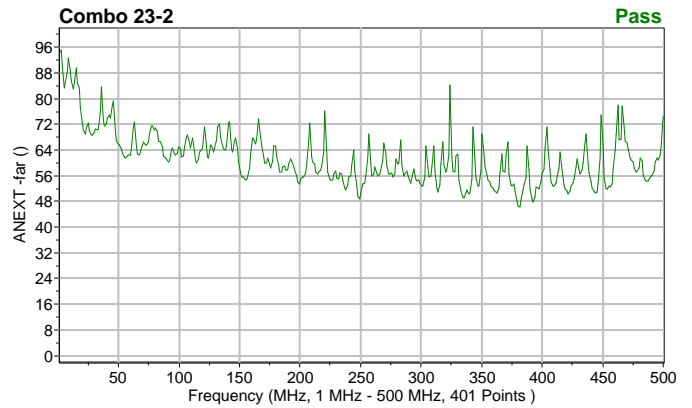
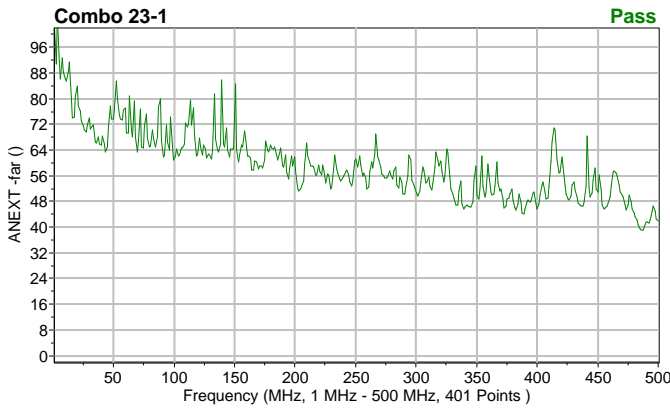
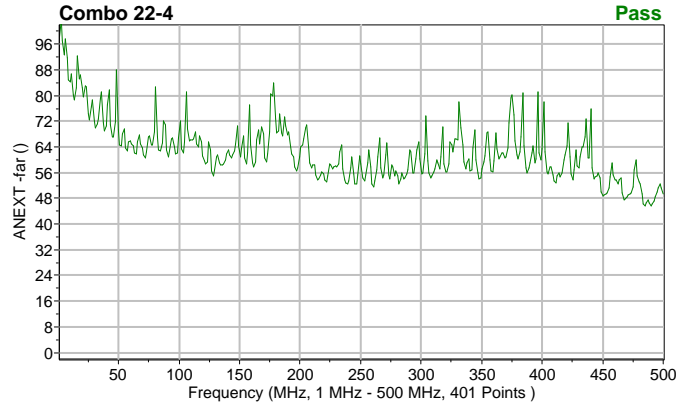
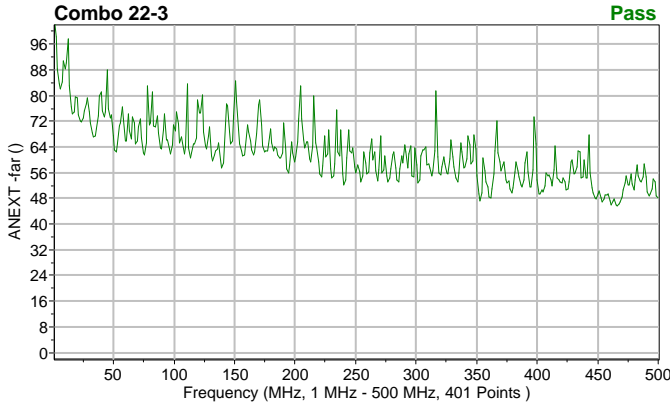
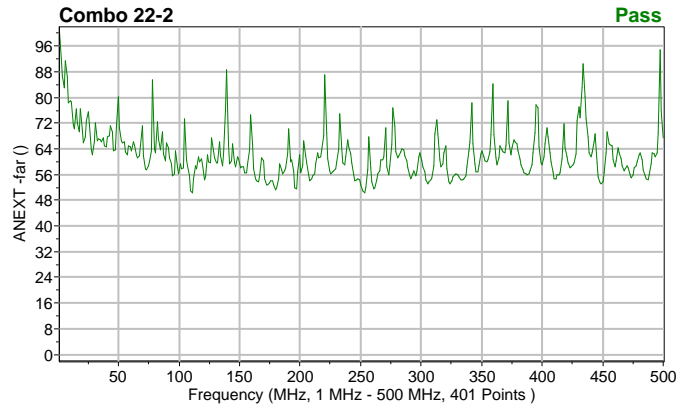
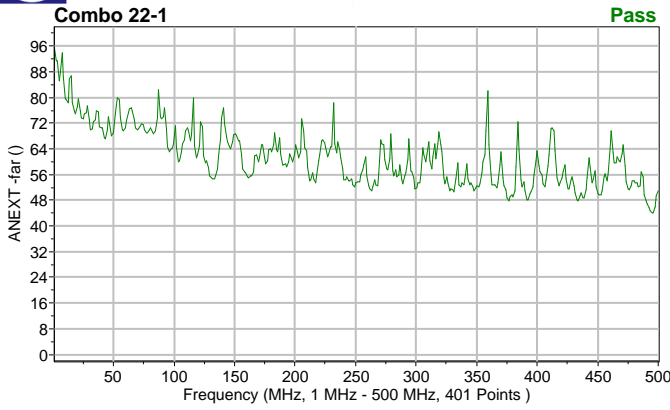


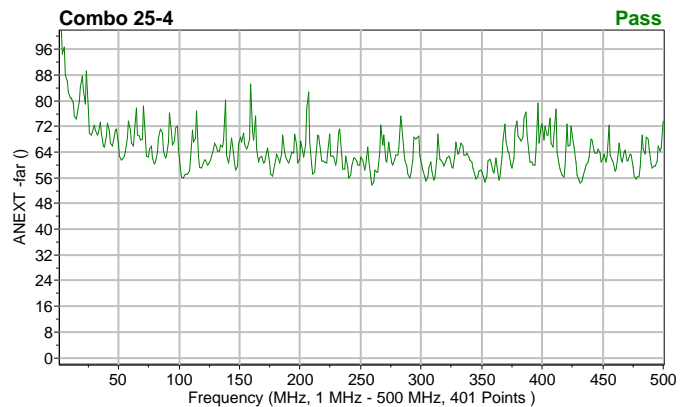
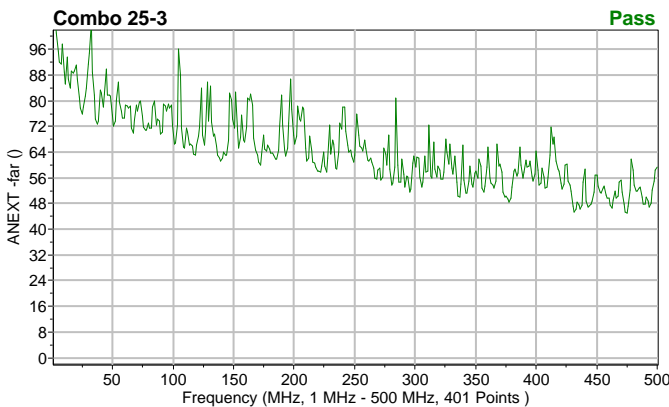
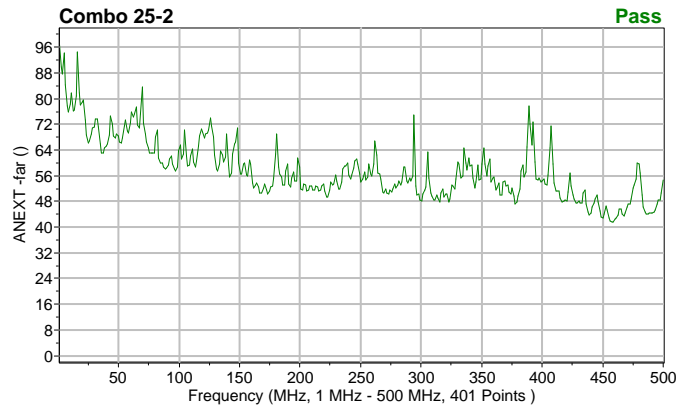
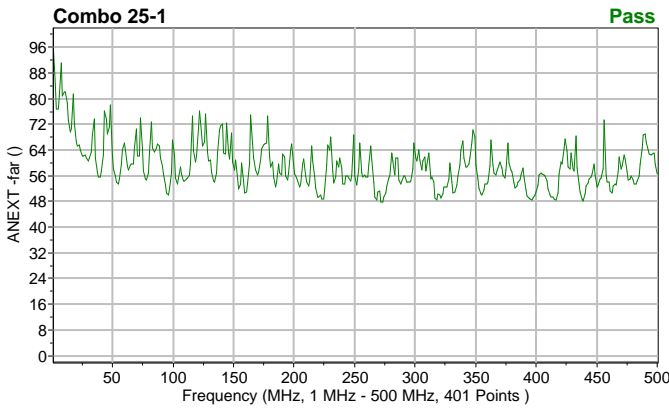
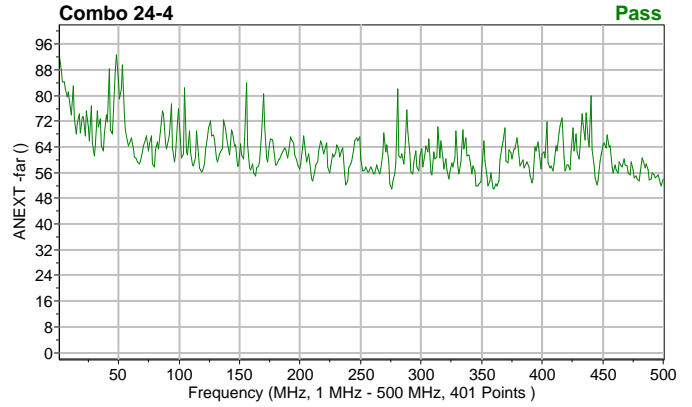
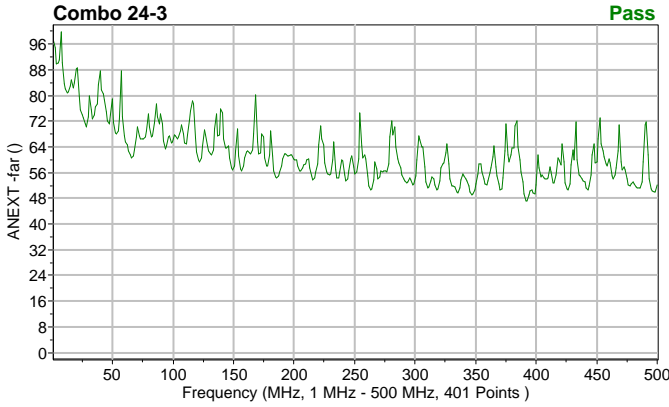
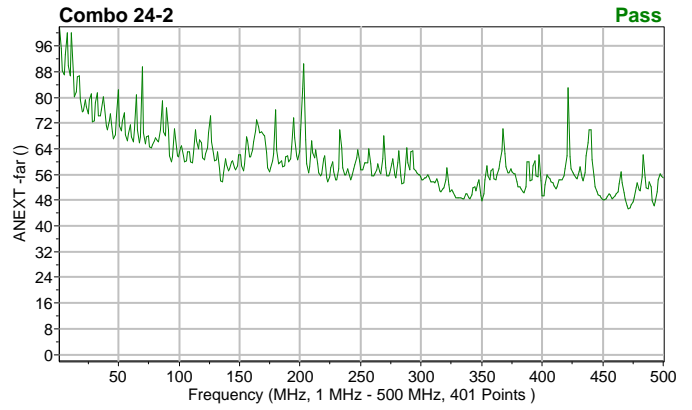
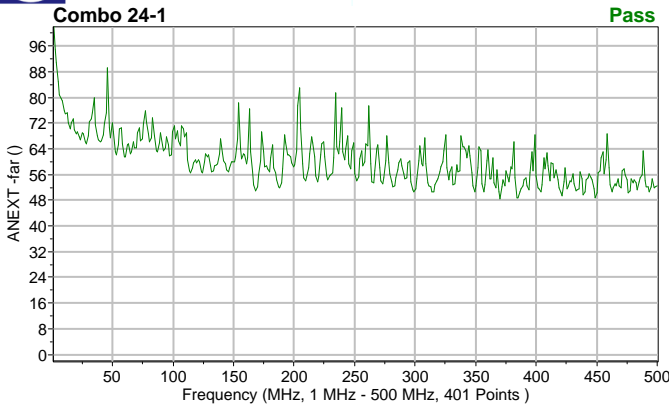


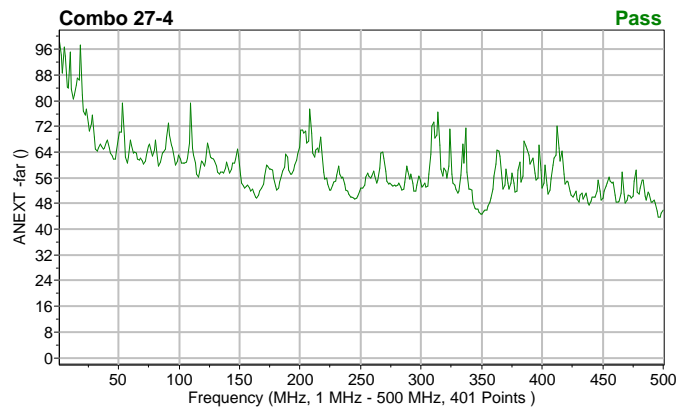
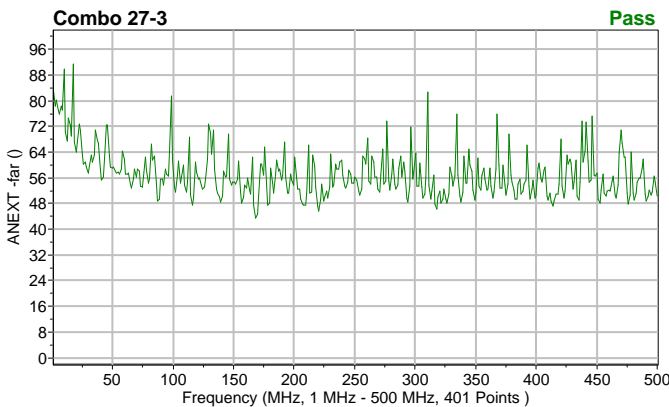
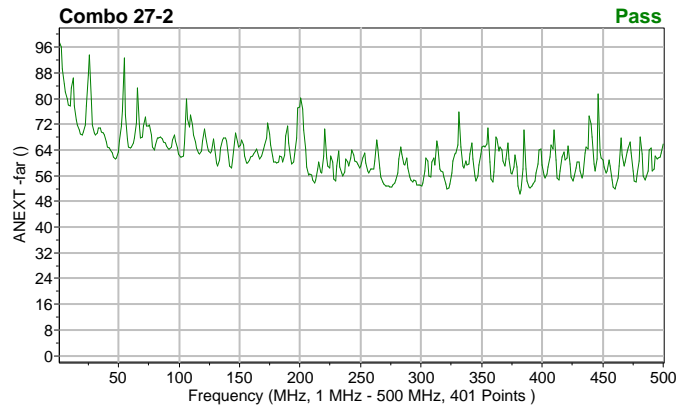
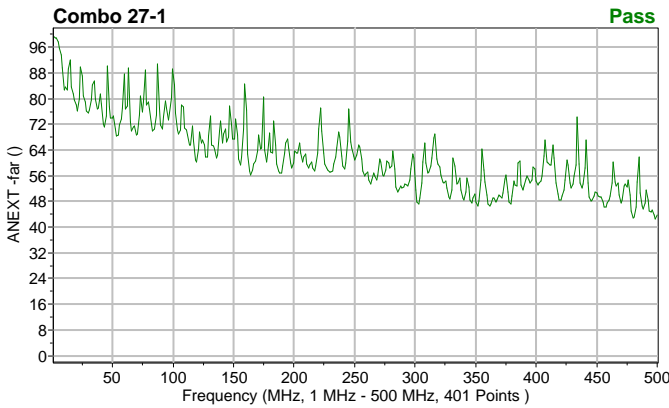
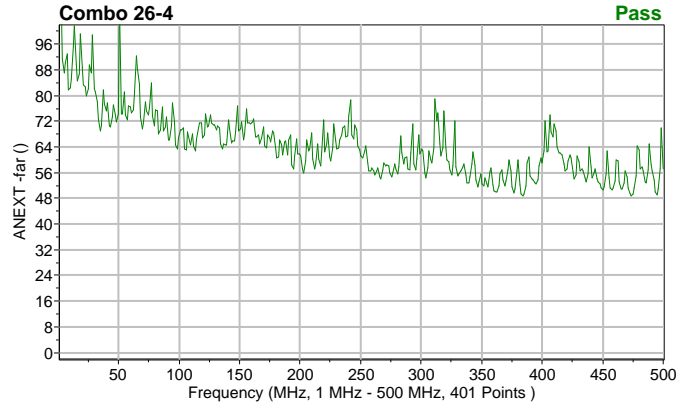
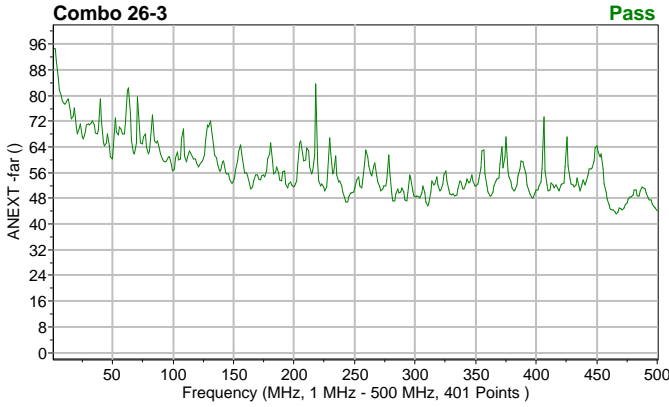
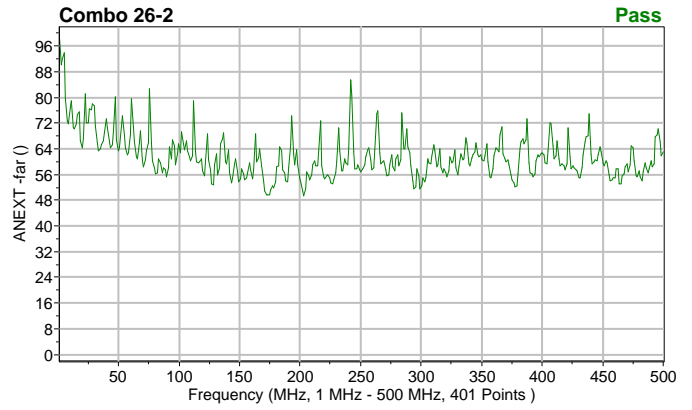
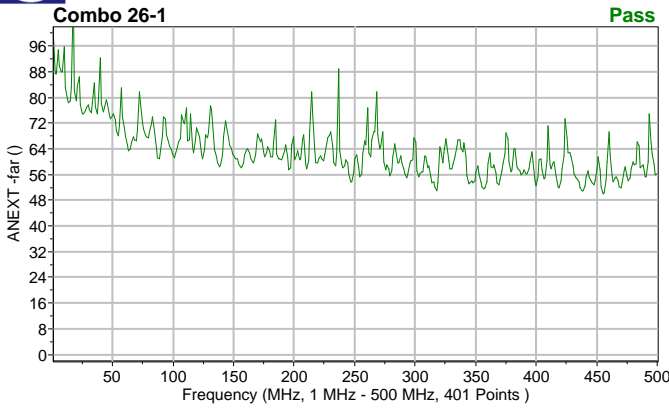


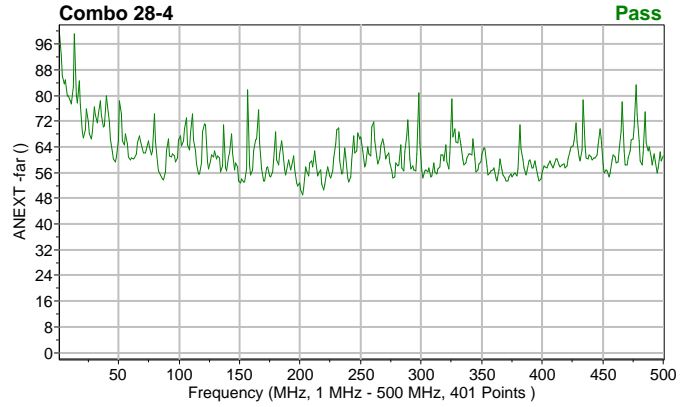
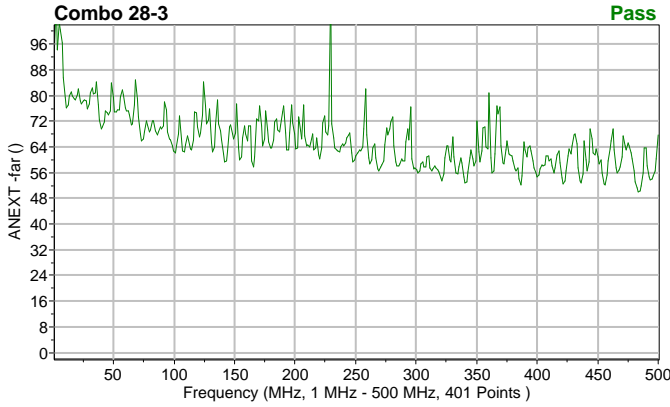
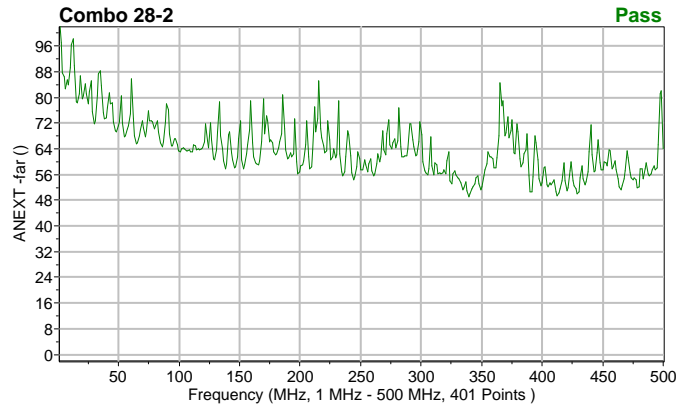
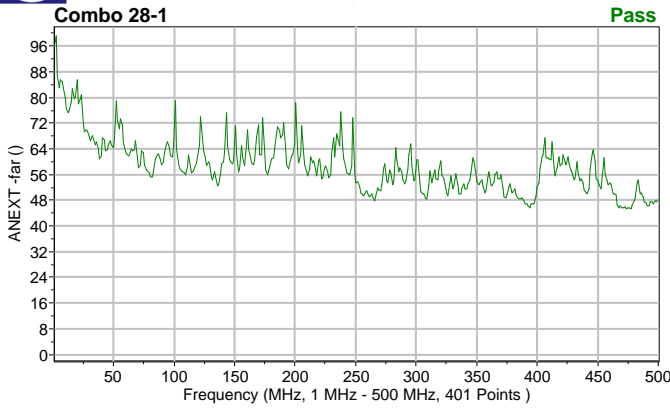








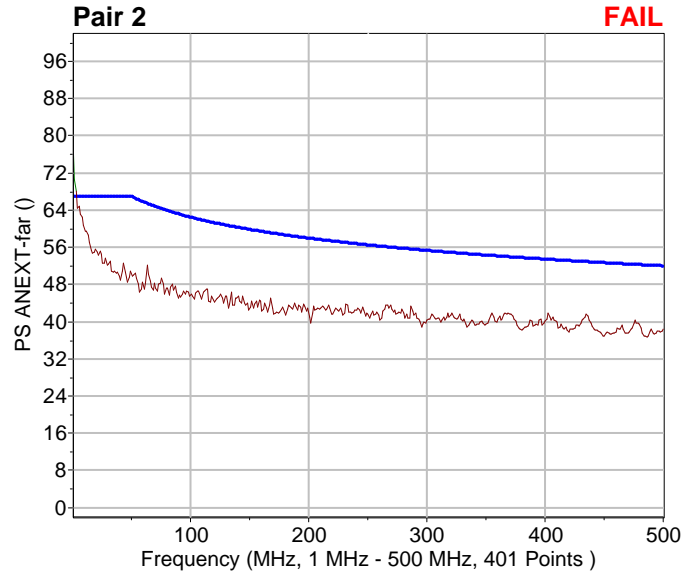
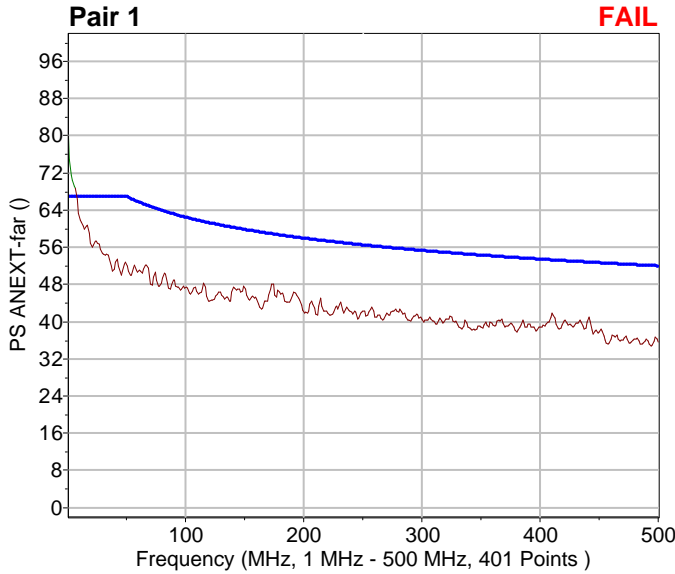


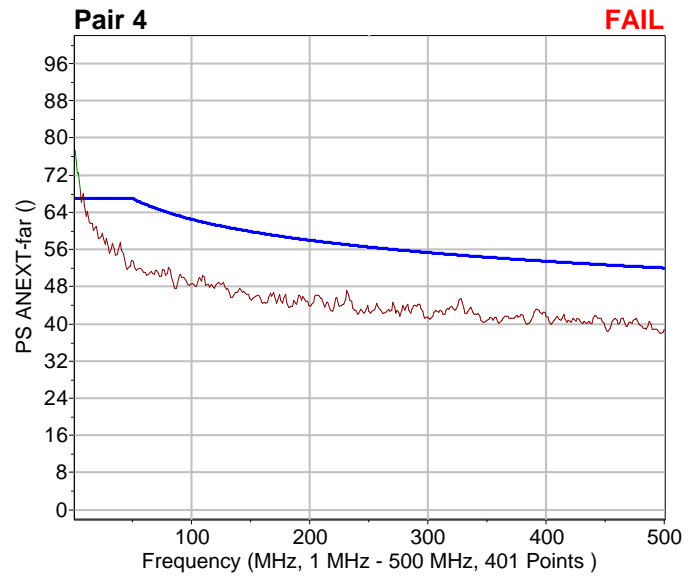
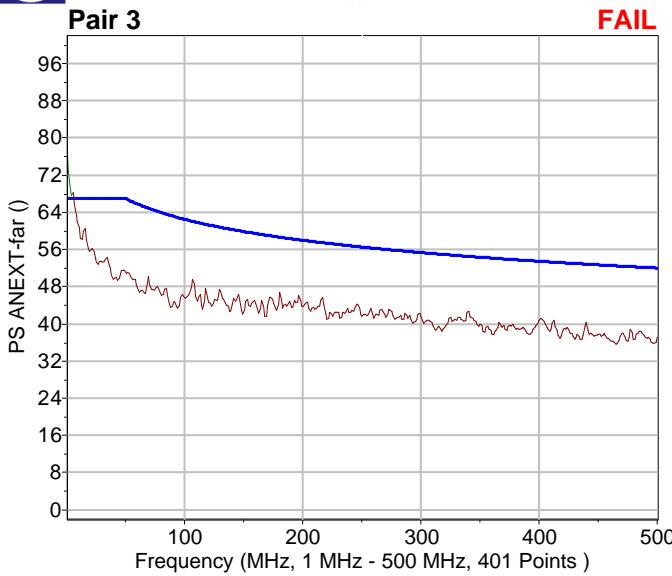


Summary and Graphic: Power Sum Alien NEXT-far (PS ANEXT-far)

{ v = Value () l = Limit () m = Margin () f = Frequency (MHz) }

Pair	Start f	Stop f	Points	Minimum { v [ff] }	Maximum { v [ff] }	Min. Margin { m (v l) [ff] }	Result
1	1	500	401	34.7 [493.8]	81.1 [1]	-17.5 (35.1 < 52.6) [457.6]	FAIL
2	1	500	401	36.6 [486.3]	77.1 [1]	-19.8 (46.4 < 66.1) [57.14]	FAIL
3	1	500	401	35.7 [465.1]	77.4 [1]	-19.7 (43.6 < 63.3) [88.32]	FAIL
4	1	500	401	37.9 [497.5]	77.8 [1]	-15.8 (47.6 < 63.4) [87.08]	FAIL





Pair	Errors	First Error { v (m) [ff] }	Worst Error { v (m) [ff] }	Last Error { v (m) [ff] }
1	395	66.3 < 67.0 (0.7) [8.485]	35.1 < 52.6 (-17.5) [457.6]	35.7 < 52.0 (16.3) [500]
2	398	64.3 < 67.0 (2.7) [4.742]	46.4 < 66.1 (-19.8) [57.14]	38.4 < 52.0 (13.6) [500]
3	396	65.7 < 67.0 (1.3) [7.237]	43.6 < 63.3 (-19.7) [88.32]	37.1 < 52.0 (14.9) [500]
4	395	66.1 < 67.0 (0.9) [7.237]	47.6 < 63.4 (-15.8) [87.08]	38.9 < 52.0 (13.1) [500]

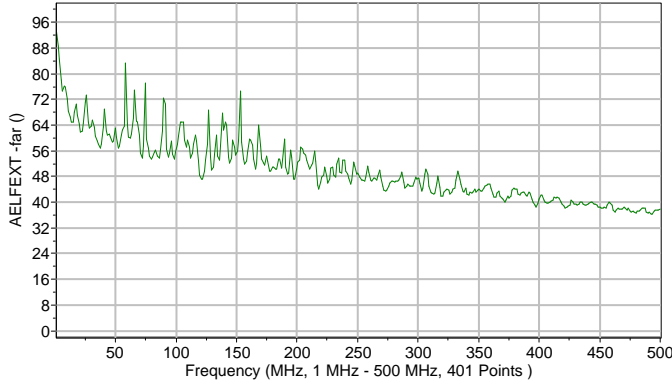
Summary and Graphic: Alien Equal Level FEXT -far (AELFEXT -far)

{ v = Value () | l = Limit () | m = Margin () | f = Frequency (MHz) }

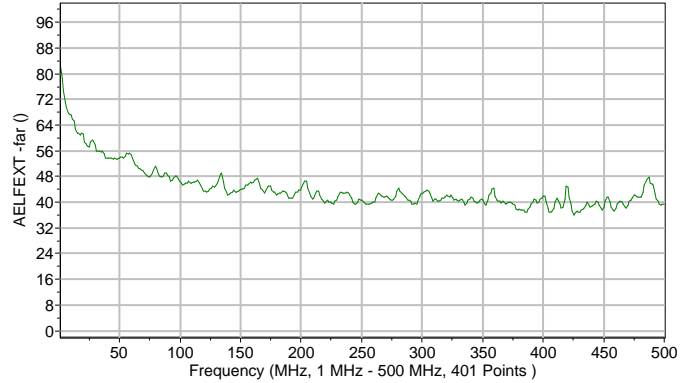
Combo	Start f	Stop f	Points	Minimum { v [ff] }	Maximum { v [ff] }	Result
5-1	1	500	401	36.3 [493.8]	93.7 [1]	ü
5-2	1	500	401	36.1 [425.1]	82.8 [1]	ü
5-3	1	500	401	34.1 [496.3]	93.3 [1]	ü
5-4	1	500	401	38.6 [500]	102.5 [8.485]	ü
6-1	1	500	401	29.2 [463.8]	91.3 [1]	ü
6-2	1	500	401	33.6 [500]	85.6 [1]	ü
6-3	1	500	401	38.3 [407.7]	90.6 [1]	ü
6-4	1	500	401	32.6 [498.8]	100.9 [1]	ü
7-1	1	500	401	35.8 [455.1]	100.0 [1]	ü
7-2	1	500	401	38.0 [317.9]	88.8 [1]	ü
7-3	1	500	401	27.6 [481.3]	80.3 [1]	ü
7-4	1	500	401	38.3 [302.9]	102.7 [2.247]	ü
8-1	1	500	401	32.2 [493.8]	91.4 [1]	ü
8-2	1	500	401	35.9 [473.8]	104.1 [3.495]	ü
8-3	1	500	401	36.5 [492.5]	90.8 [1]	ü
8-4	1	500	401	35.8 [496.3]	92.3 [1]	ü
9-1	1	500	401	38.1 [500]	100.7 [17.22]	ü
9-2	1	500	401	40.4 [307.9]	104.7 [2.247]	ü
9-3	1	500	401	31.5 [480]	83.3 [1]	ü
9-4	1	500	401	31.0 [426.4]	86.6 [1]	ü
10-1	1	500	401	32.0 [458.8]	93.4 [1]	ü
10-2	1	500	401	36.0 [480]	90.3 [1]	ü
10-3	1	500	401	37.2 [493.8]	86.4 [1]	ü
10-4	1	500	401	33.6 [465.1]	90.0 [1]	ü
11-1	1	500	401	34.9 [475]	89.3 [1]	ü
11-2	1	500	401	33.3 [332.8]	88.2 [1]	ü
11-3	1	500	401	35.0 [485]	90.7 [1]	ü
11-4	1	500	401	41.5 [462.6]	90.1 [1]	ü
12-1	1	500	401	39.6 [339.1]	105.0 [1]	ü
12-2	1	500	401	34.0 [485]	99.3 [1]	ü
12-3	1	500	401	35.7 [407.7]	103.8 [2.247]	ü
12-4	1	500	401	41.4 [476.3]	94.8 [2.247]	ü
13-1	1	500	401	24.7 [500]	74.5 [1]	ü
13-2	1	500	401	46.2 [486.3]	110.6 [2.247]	ü
13-3	1	500	401	34.5 [481.3]	87.9 [1]	ü
13-4	1	500	401	37.9 [226.8]	103.4 [5.99]	ü
14-1	1	500	401	35.8 [287.9]	77.9 [1]	ü
14-2	1	500	401	50.9 [309.1]	94.7 [1]	ü
14-3	1	500	401	40.8 [346.6]	82.6 [1]	ü
14-4	1	500	401	35.0 [472.6]	102.1 [7.237]	ü
15-1	1	500	401	38.2 [483.8]	98.3 [7.237]	ü
15-2	1	500	401	35.8 [455.1]	76.8 [1]	ü
15-3	1	500	401	41.8 [470.1]	90.7 [7.237]	ü
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16-1	1	500	401	41.3 [340.3]	89.7 [1]	ü

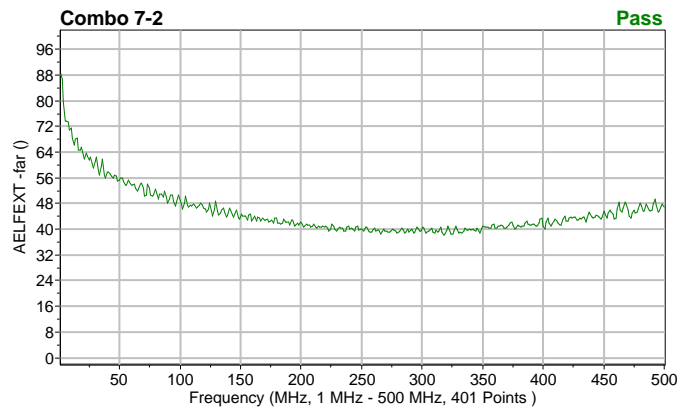
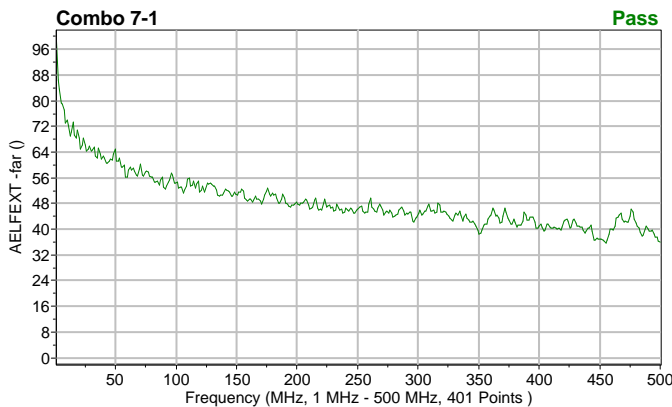
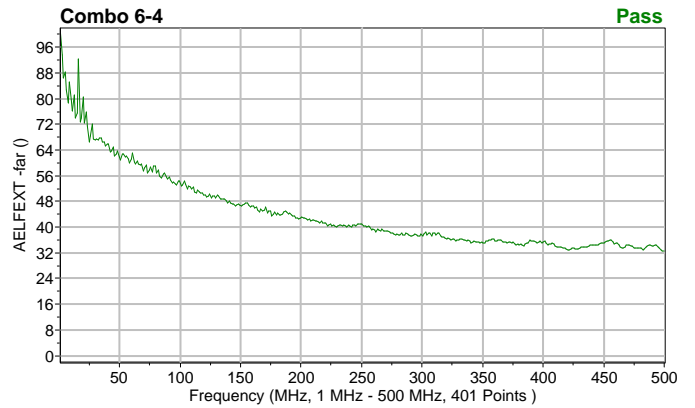
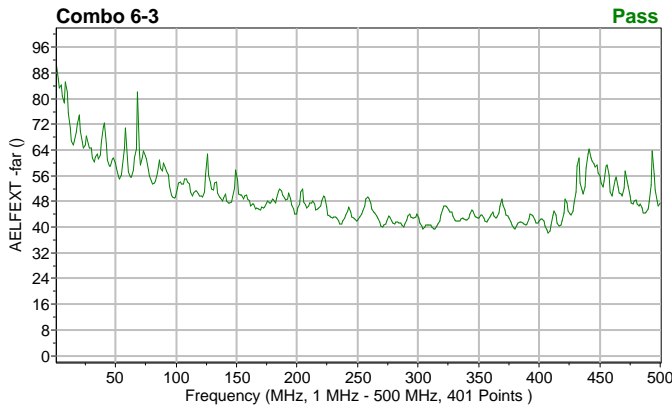
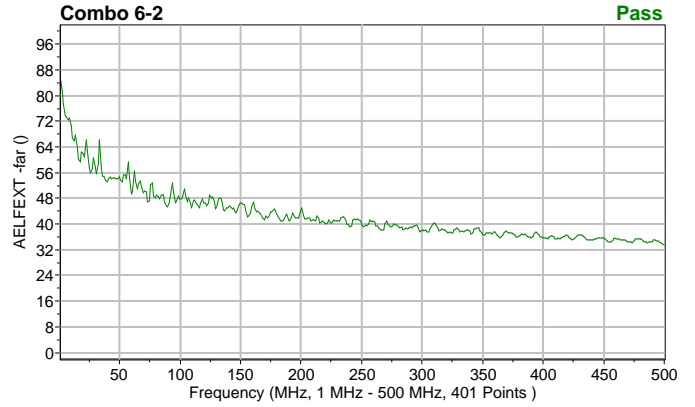
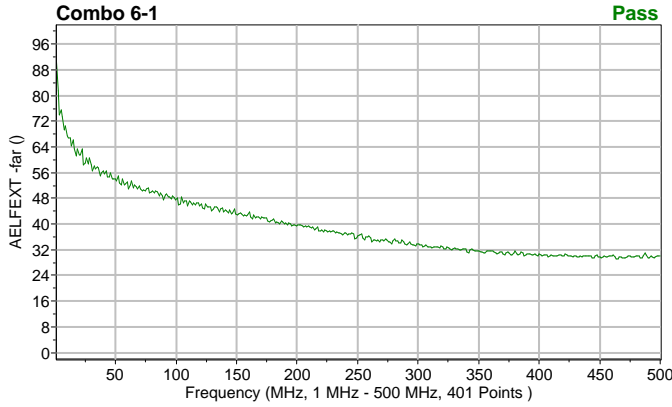
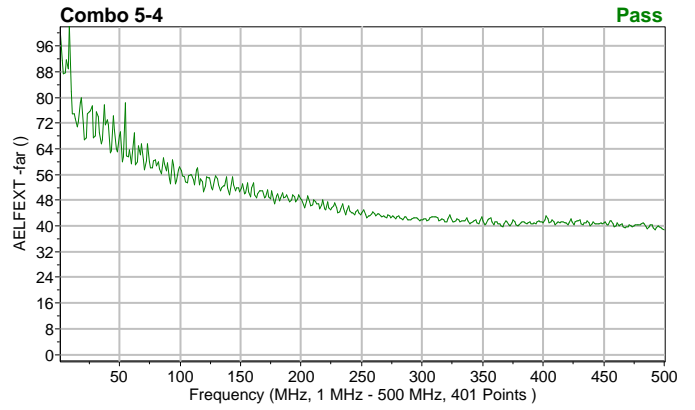
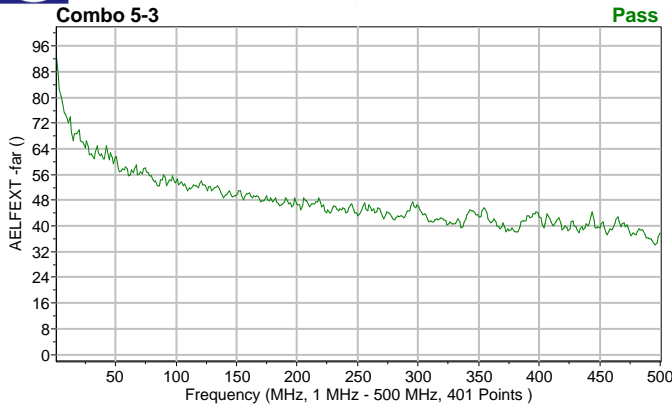
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16-4	1	500	401	37.8 [500]	91.3 [1]	ü
17-1	1	500	401	39.5 [403.9]	89.4 [1]	ü
17-2	1	500	401	40.3 [496.3]	88.8 [1]	ü
17-3	1	500	401	41.0 [466.3]	95.2 [18.46]	ü
17-4	1	500	401	35.0 [332.8]	89.4 [1]	ü
18-1	1	500	401	42.1 [431.4]	86.2 [1]	ü
18-2	1	500	401	21.9 [496.3]	73.2 [1]	ü
18-3	1	500	401	30.9 [431.4]	82.1 [1]	ü
18-4	1	500	401	37.7 [500]	92.2 [1]	ü
19-1	1	500	401	38.3 [466.3]	105.3 [1]	ü
19-2	1	500	401	37.2 [500]	87.1 [1]	ü
19-3	1	500	401	31.1 [493.8]	83.9 [1]	ü
19-4	1	500	401	35.5 [500]	91.4 [1]	ü
20-1	1	500	401	38.7 [492.5]	76.3 [1]	ü
20-2	1	500	401	34.2 [462.6]	84.4 [1]	ü
20-3	1	500	401	37.4 [423.9]	95.3 [1]	ü
20-4	1	500	401	35.1 [496.3]	89.0 [1]	ü
21-1	1	500	401	31.1 [495]	83.8 [1]	ü
21-2	1	500	401	32.8 [498.8]	100.2 [1]	ü
21-3	1	500	401	35.8 [493.8]	91.7 [1]	ü
21-4	1	500	401	30.8 [477.5]	79.8 [1]	ü
22-1	1	500	401	32.2 [488.8]	87.1 [1]	ü
22-2	1	500	401	38.1 [486.3]	96.7 [1]	ü
22-3	1	500	401	35.1 [379]	101.9 [2.247]	ü
22-4	1	500	401	32.8 [490]	95.4 [1]	ü
23-1	1	500	401	32.7 [492.5]	83.8 [1]	ü
23-2	1	500	401	37.8 [336.6]	85.9 [1]	ü
23-3	1	500	401	22.5 [493.8]	75.8 [1]	ü
23-4	1	500	401	33.5 [468.8]	96.2 [5.99]	ü
24-1	1	500	401	31.7 [500]	97.6 [24.7]	ü
24-2	1	500	401	34.6 [470.1]	104.2 [1]	ü
24-3	1	500	401	37.3 [483.8]	98.7 [1]	ü
24-4	1	500	401	27.5 [497.5]	80.0 [1]	ü
25-1	1	500	401	37.5 [461.3]	101.8 [2.247]	ü
25-2	1	500	401	33.8 [322.9]	94.3 [2.247]	ü
25-3	1	500	401	36.9 [431.4]	90.4 [1]	ü
25-4	1	500	401	33.9 [490]	98.1 [1]	ü
26-1	1	500	401	36.3 [490]	79.9 [1]	ü
26-2	1	500	401	33.6 [486.3]	86.6 [1]	ü
26-3	1	500	401	35.0 [500]	85.2 [1]	ü
26-4	1	500	401	36.6 [376.5]	83.6 [1]	ü
27-1	1	500	401	37.2 [498.8]	109.2 [5.99]	ü
27-2	1	500	401	33.3 [497.5]	95.6 [1]	ü
27-3	1	500	401	20.0 [491.3]	70.3 [1]	ü
27-4	1	500	401	36.4 [468.8]	105.4 [1]	ü
28-1	1	500	401	34.6 [473.8]	89.7 [1]	ü
28-2	1	500	401	35.8 [463.8]	85.1 [1]	ü
28-3	1	500	401	36.1 [486.3]	107.0 [3.495]	ü
28-4	1	500	401	34.3 [493.8]	88.9 [1]	ü

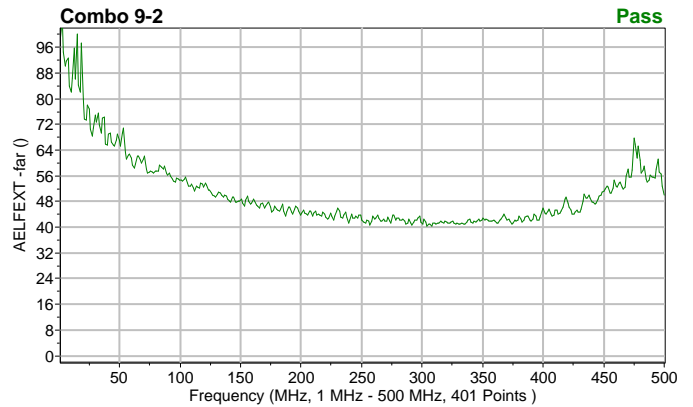
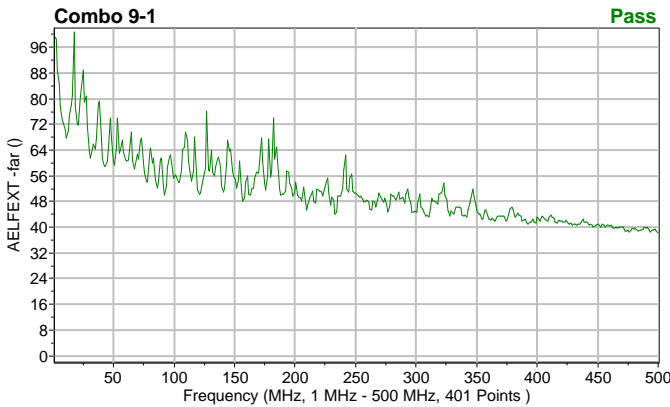
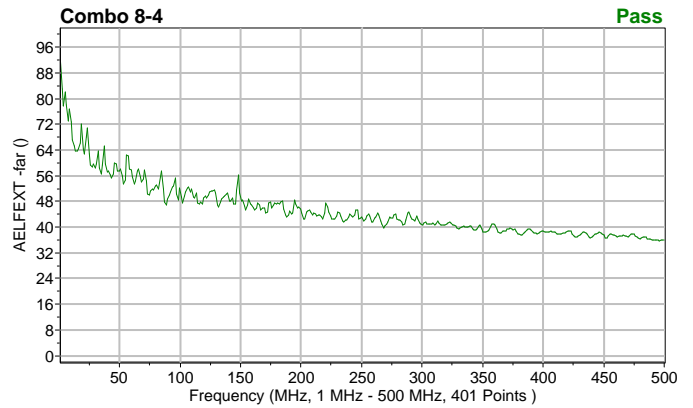
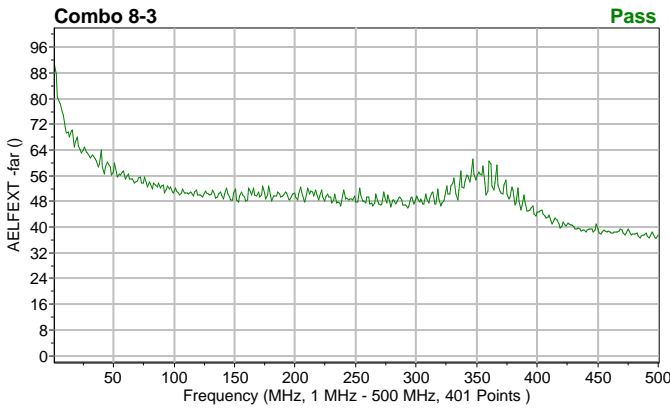
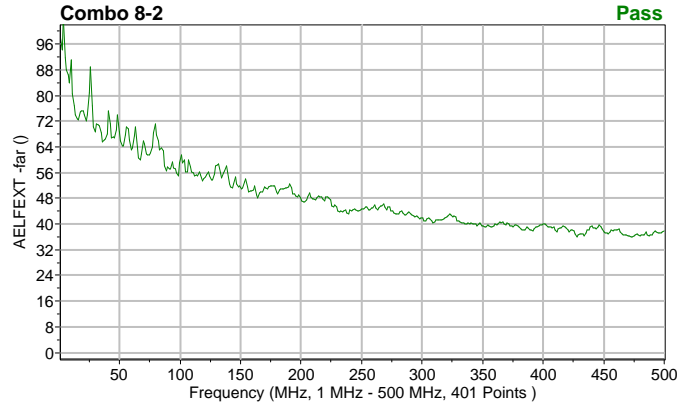
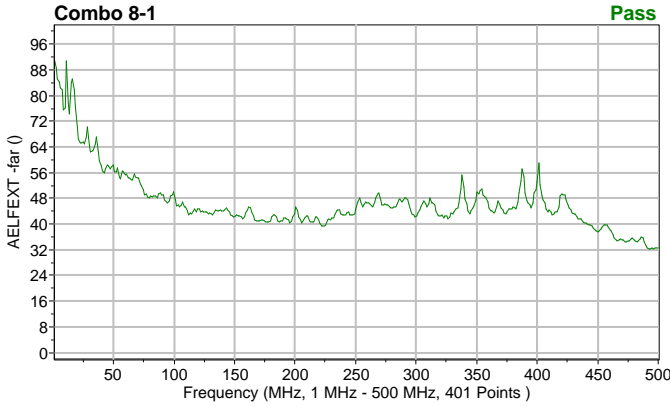
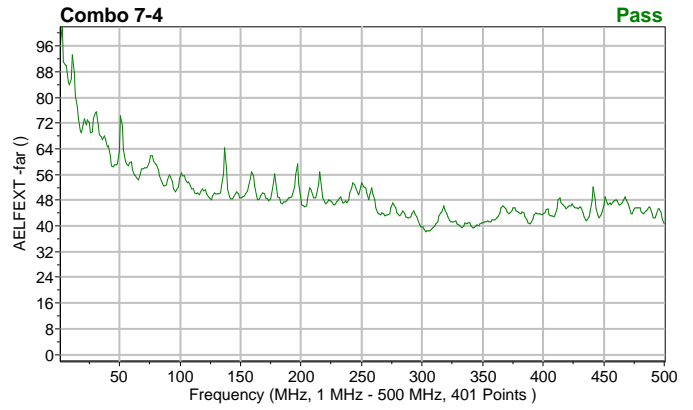
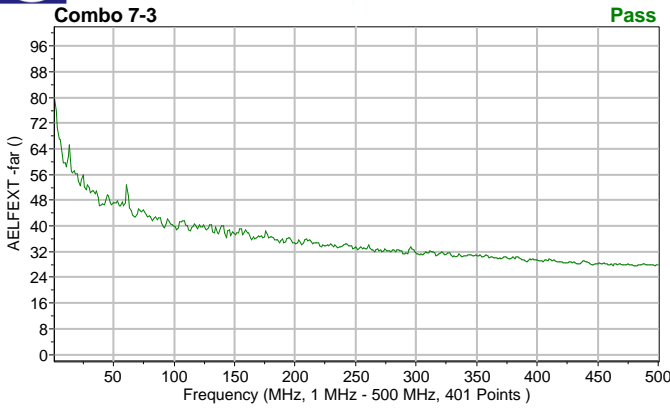
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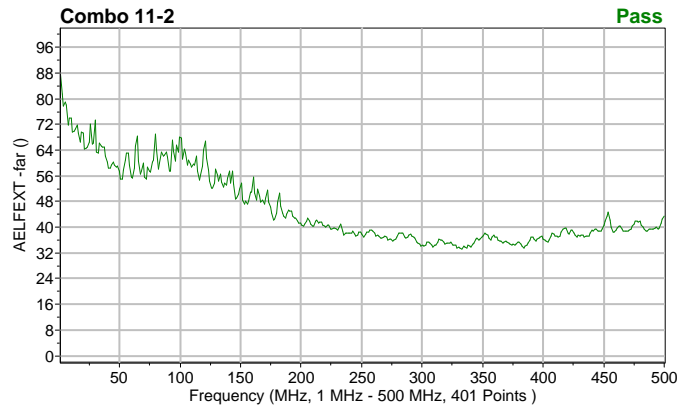
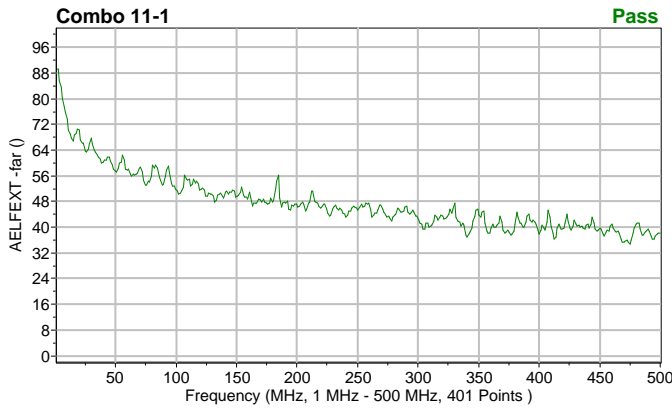
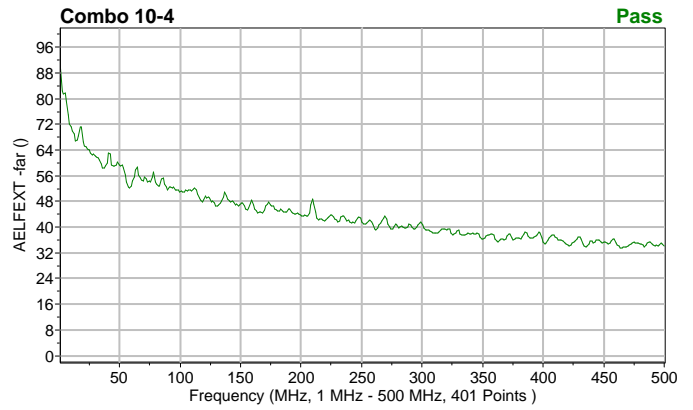
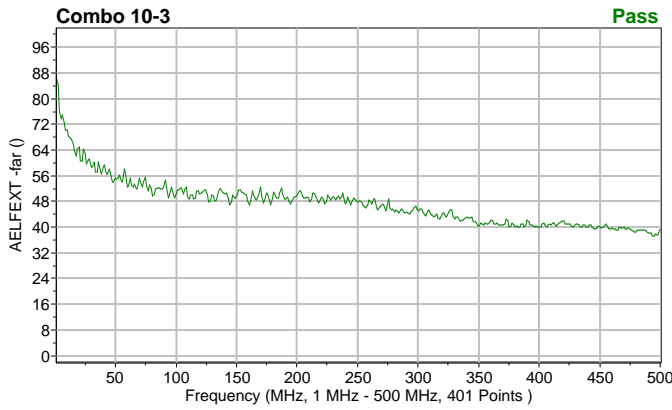
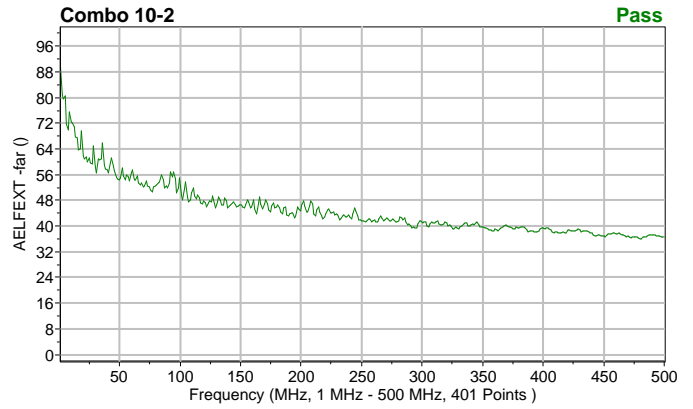
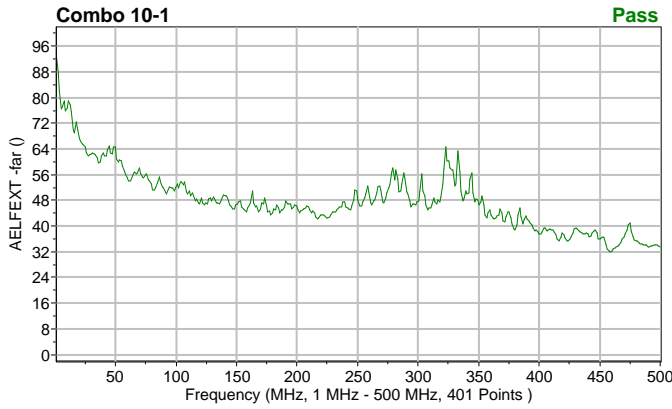
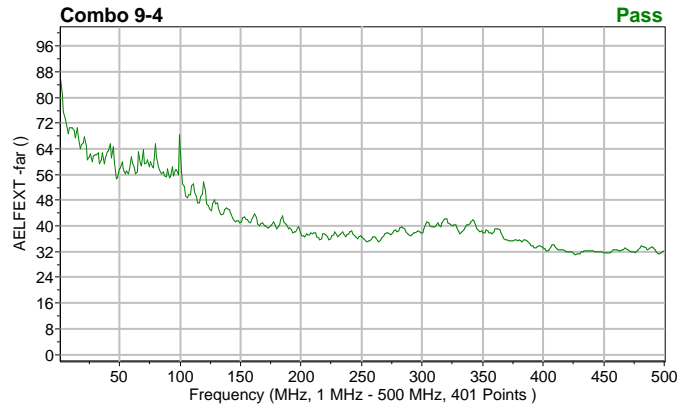
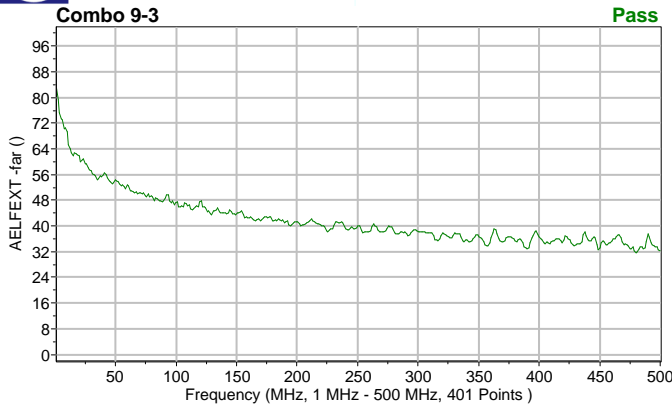


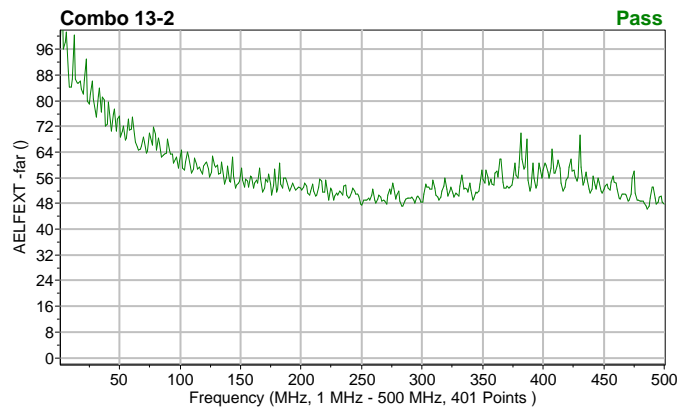
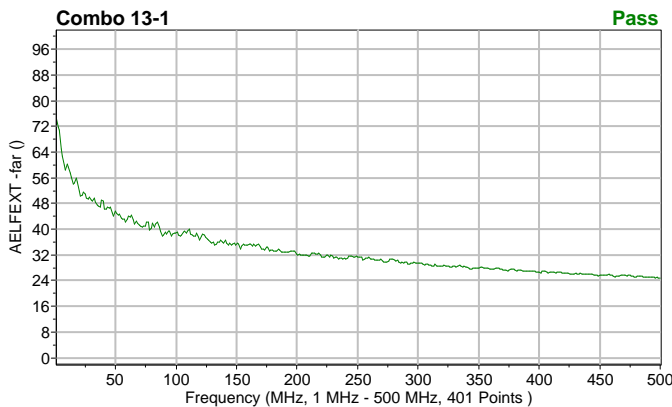
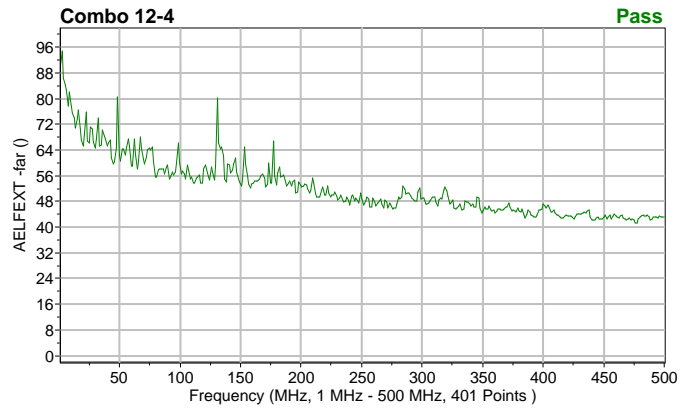
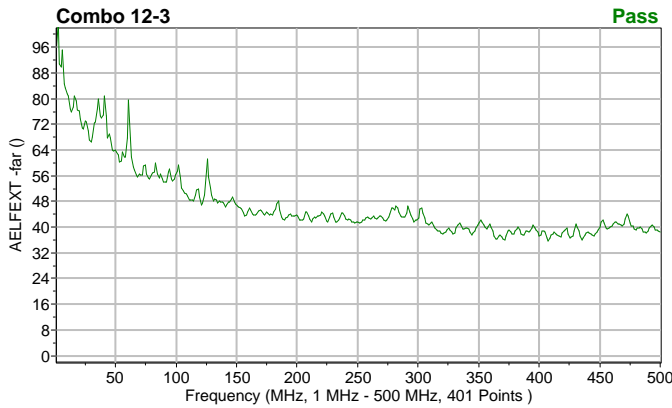
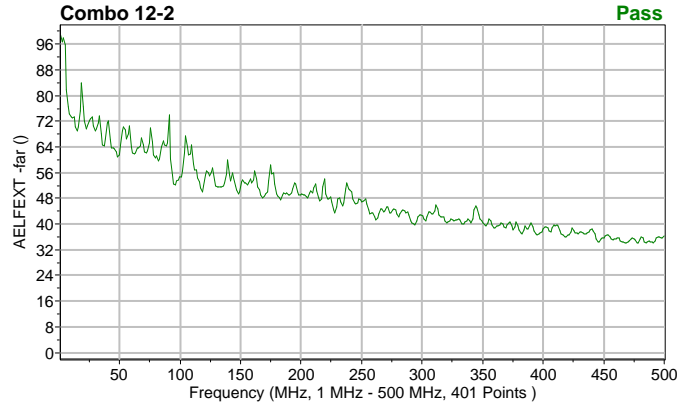
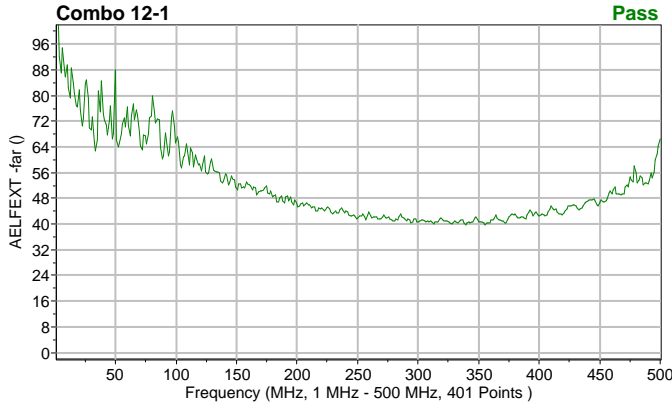
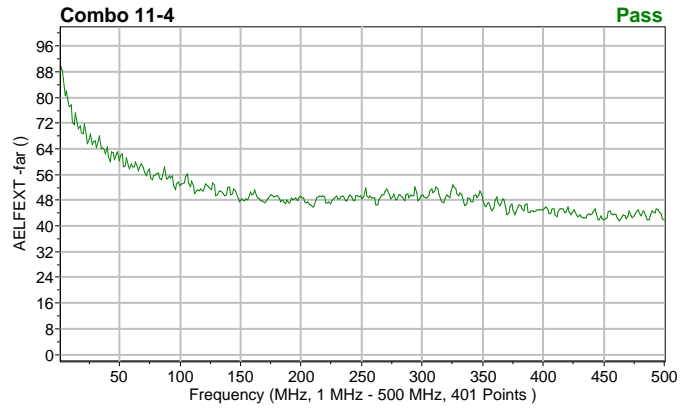
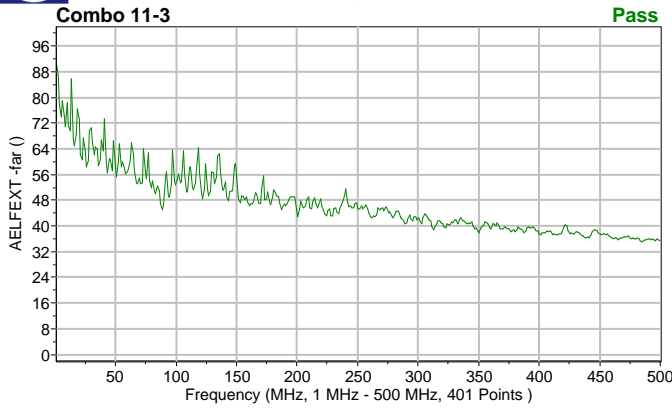
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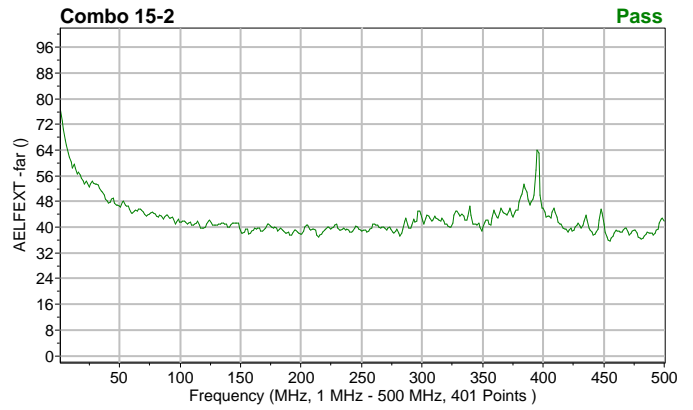
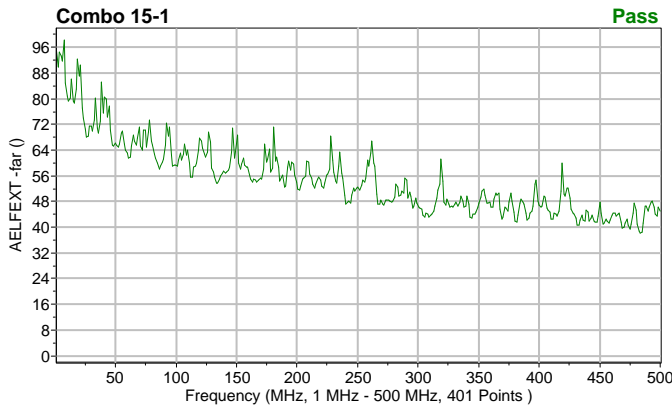
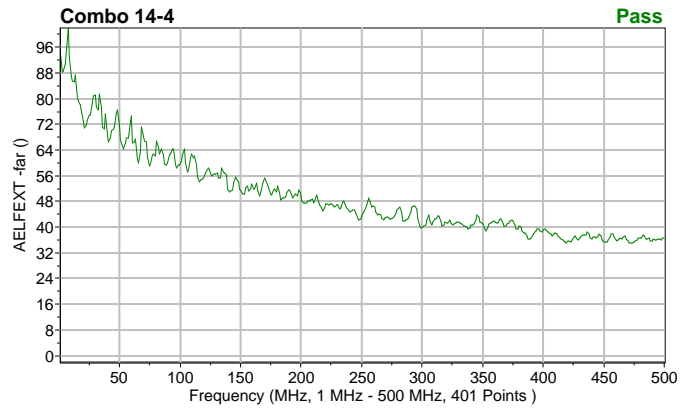
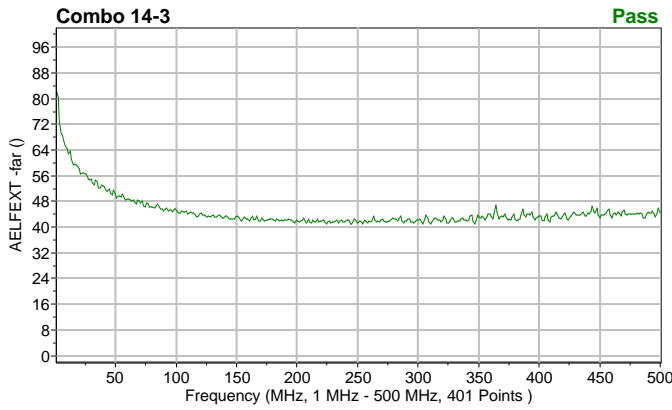
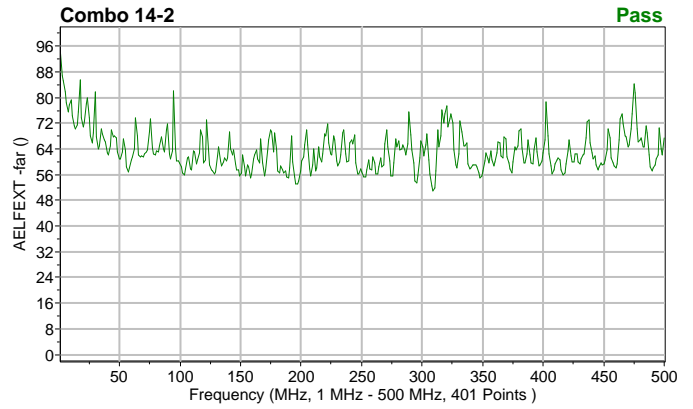
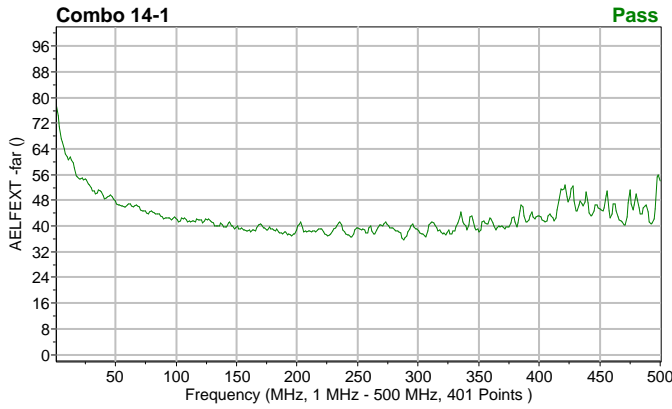
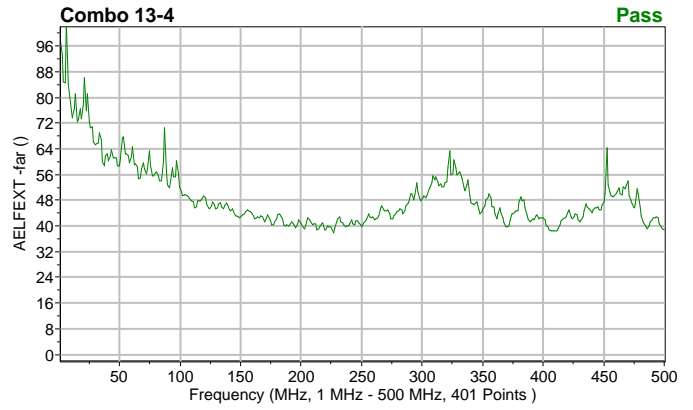
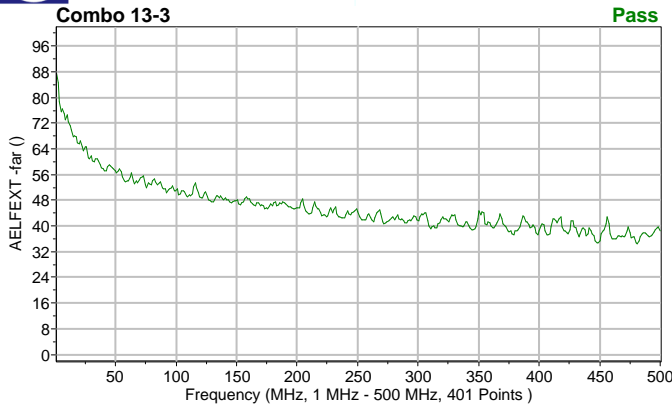


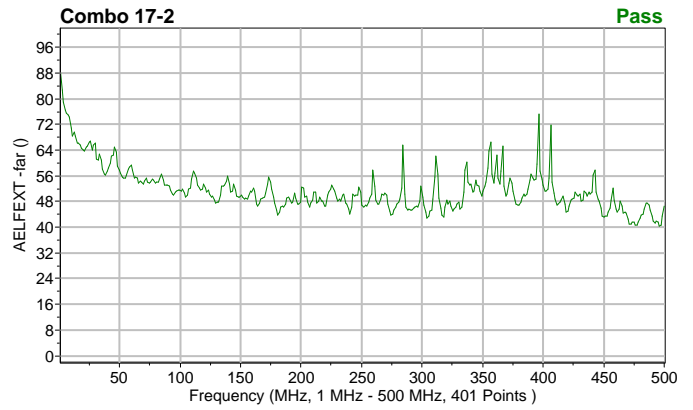
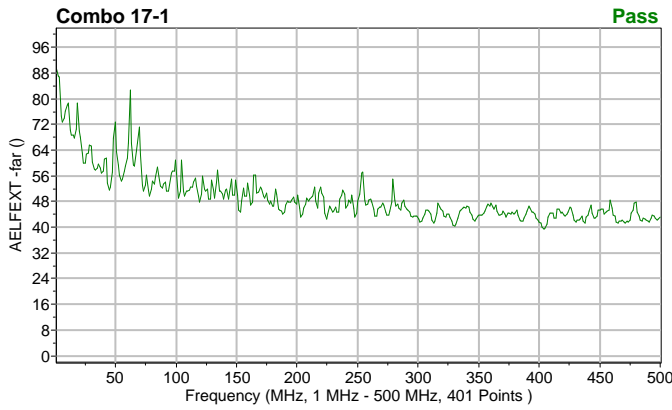
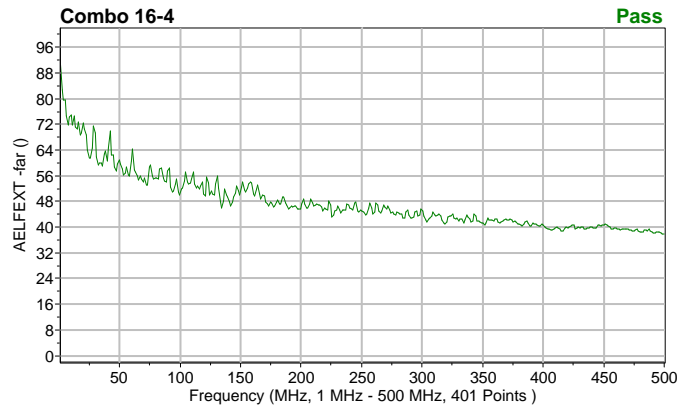
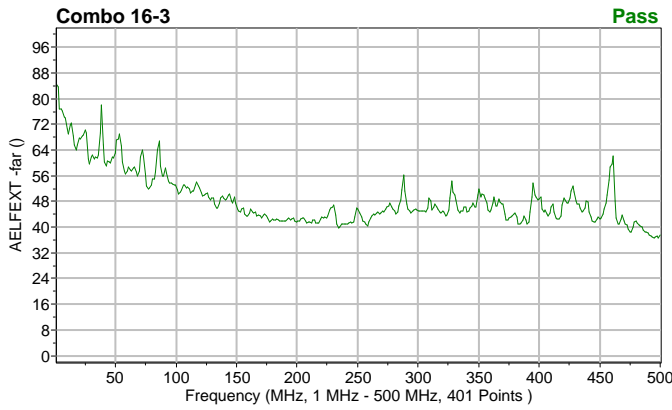
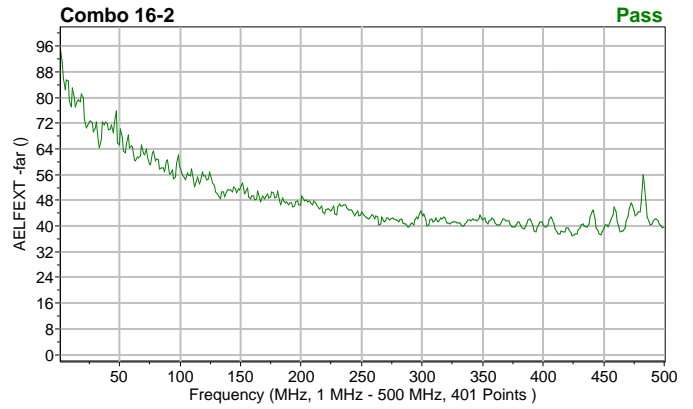
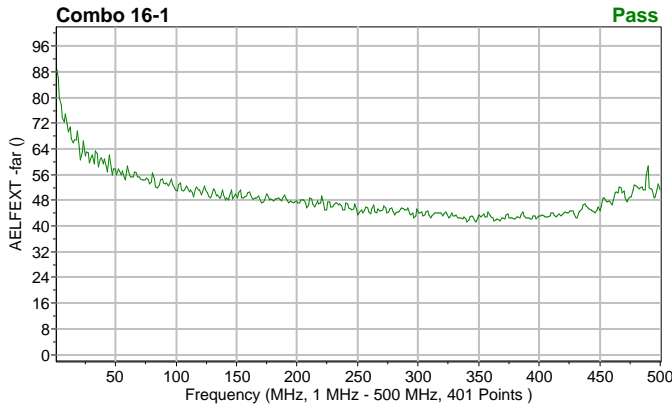
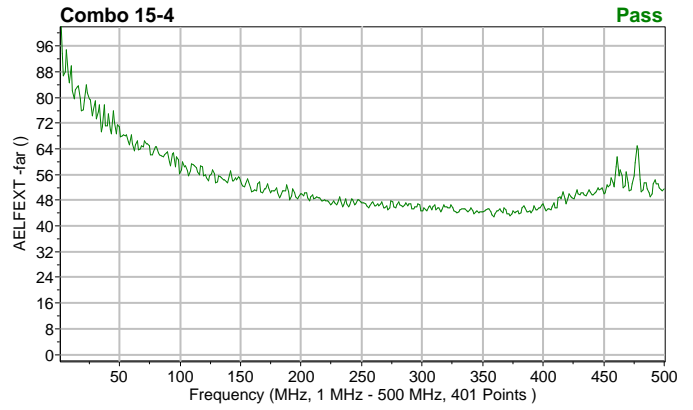
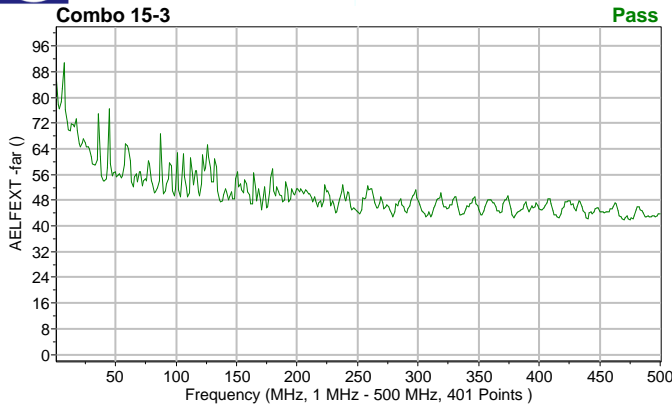


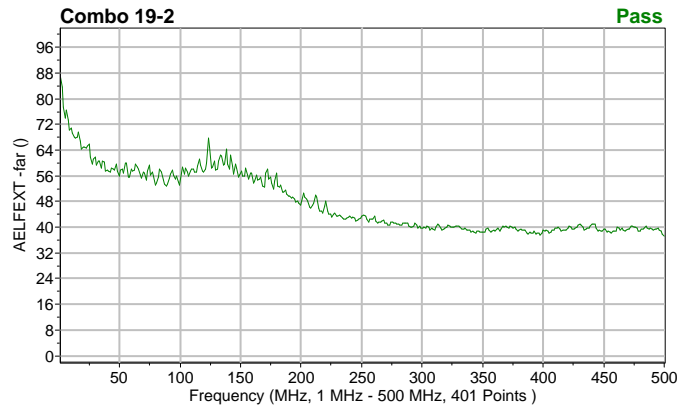
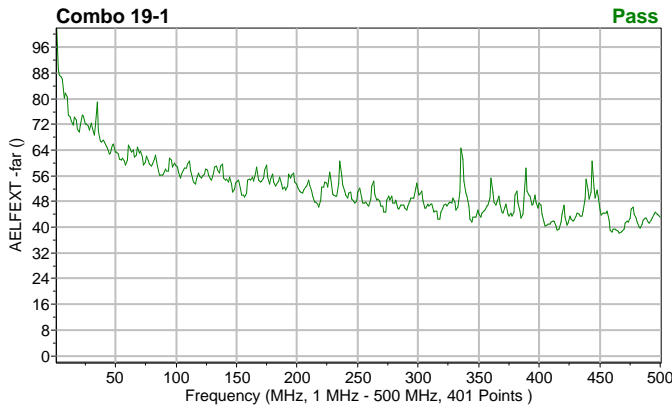
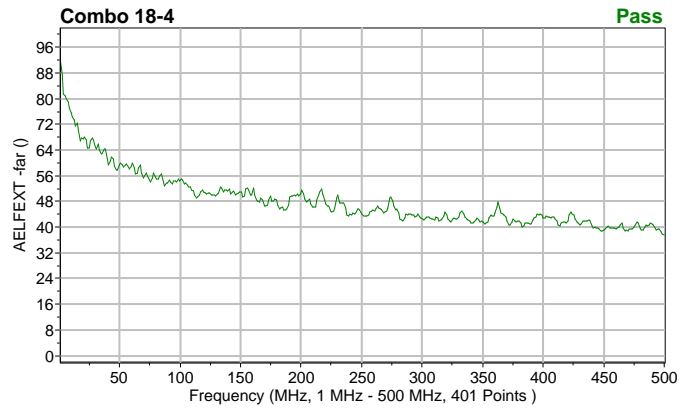
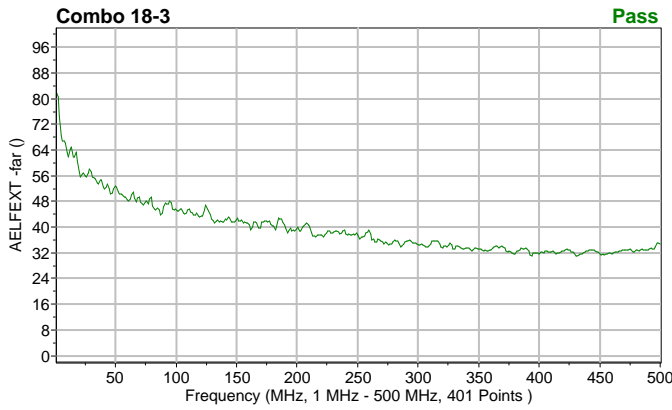
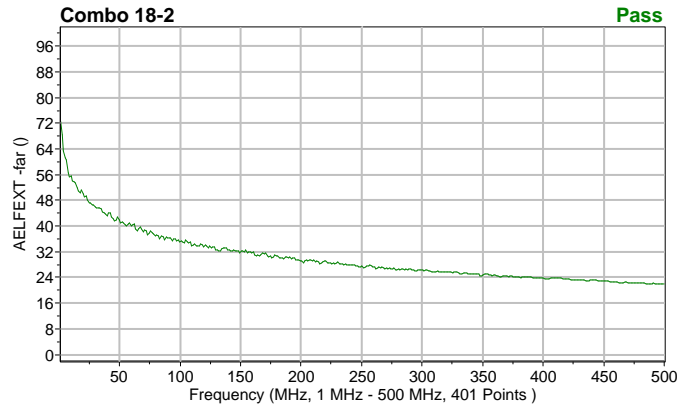
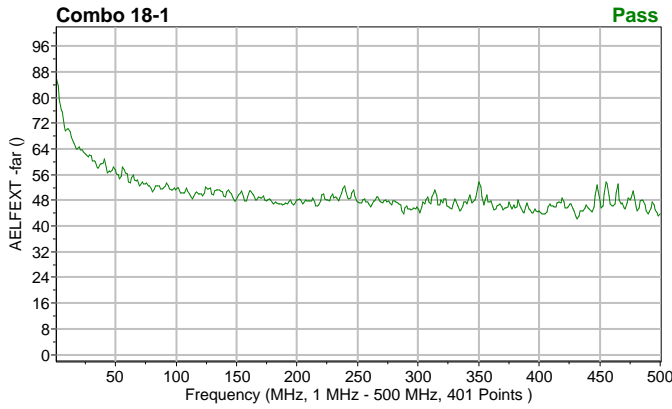
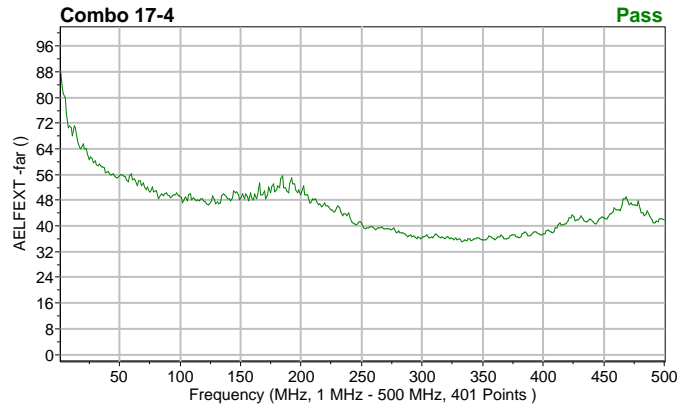
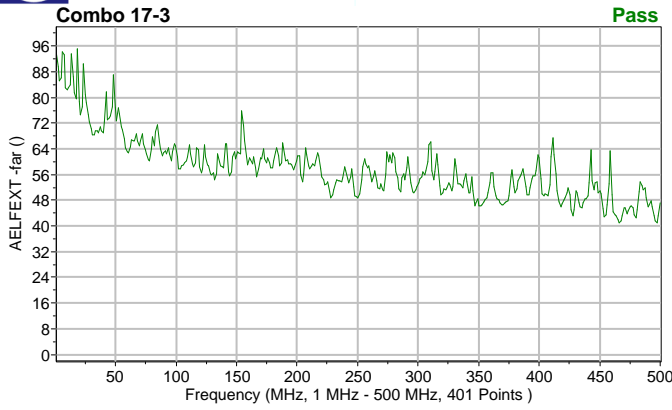


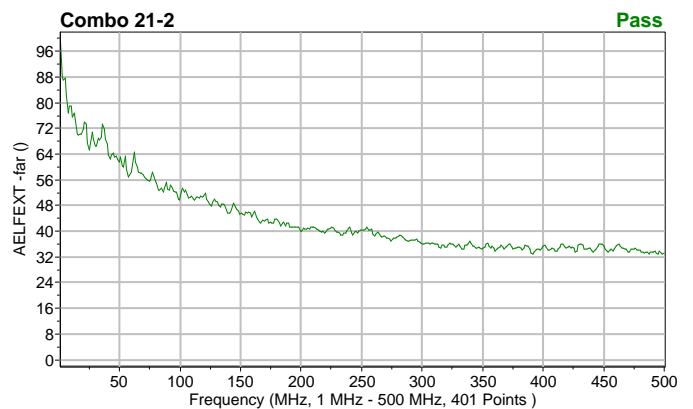
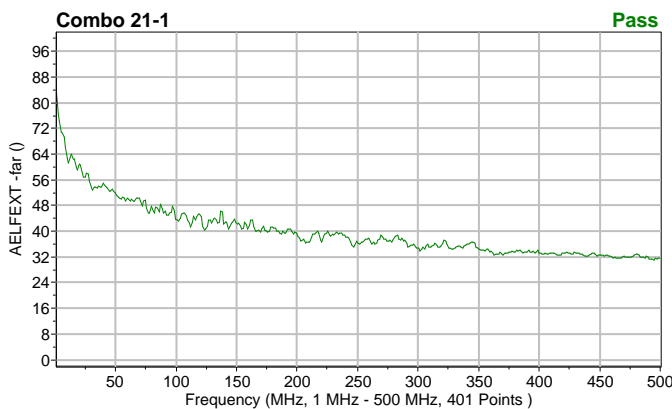
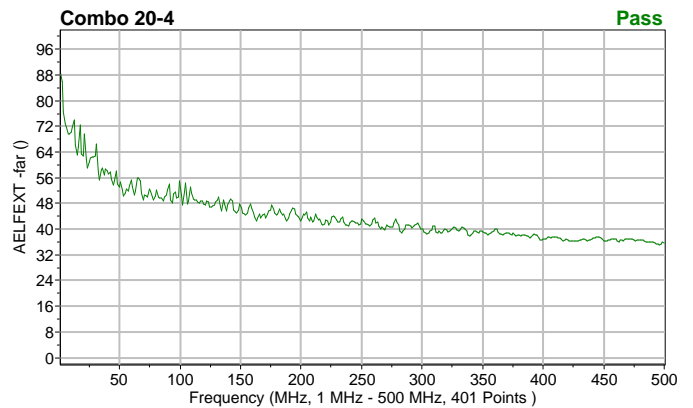
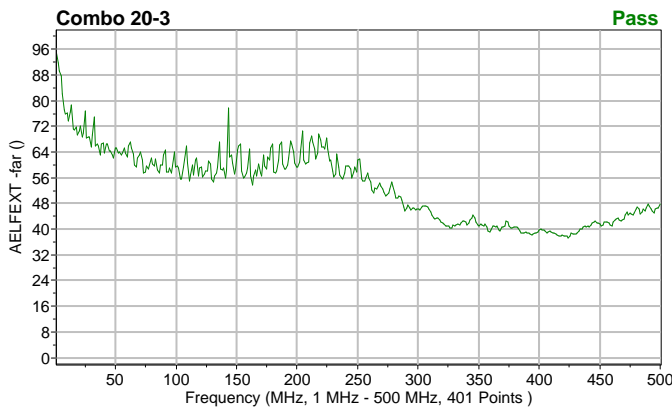
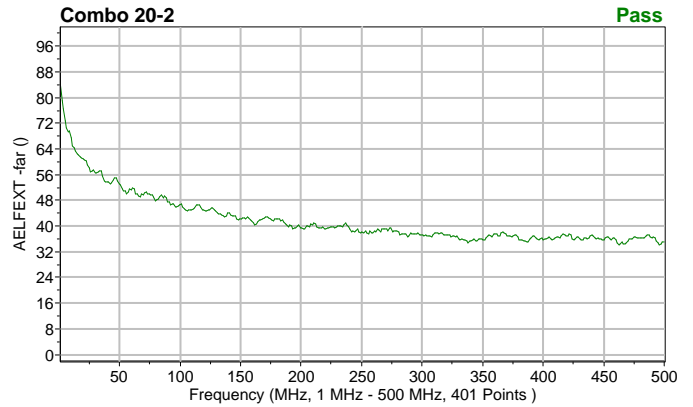
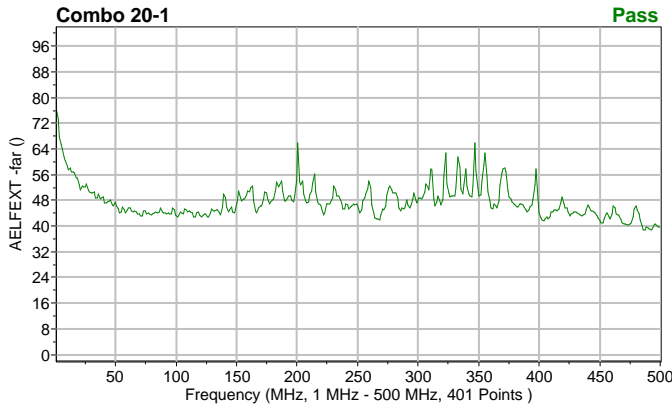
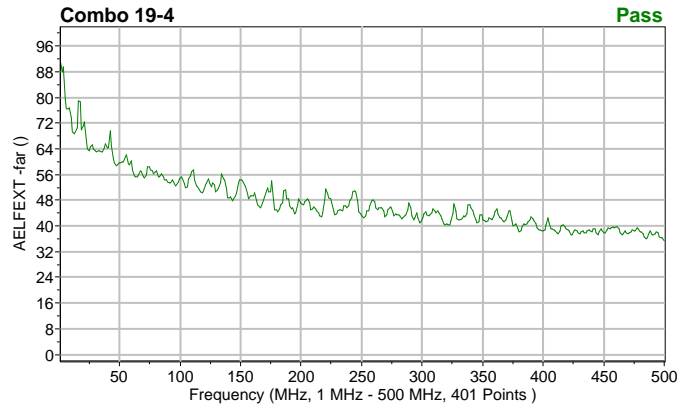
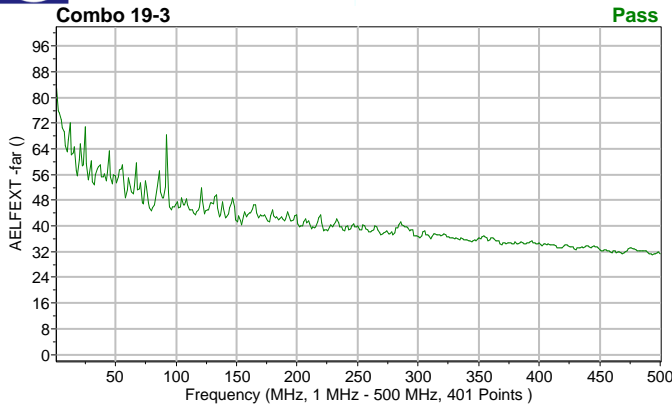


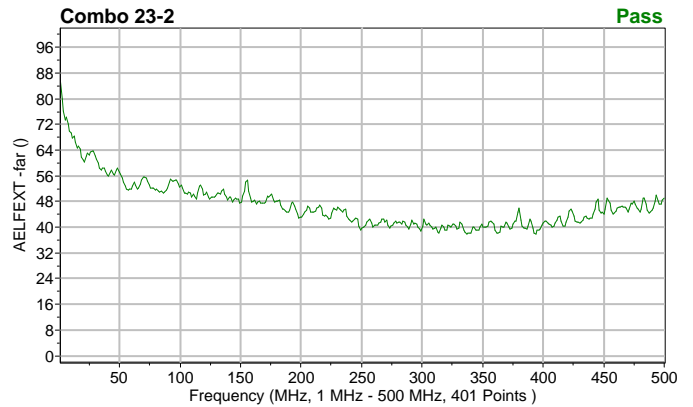
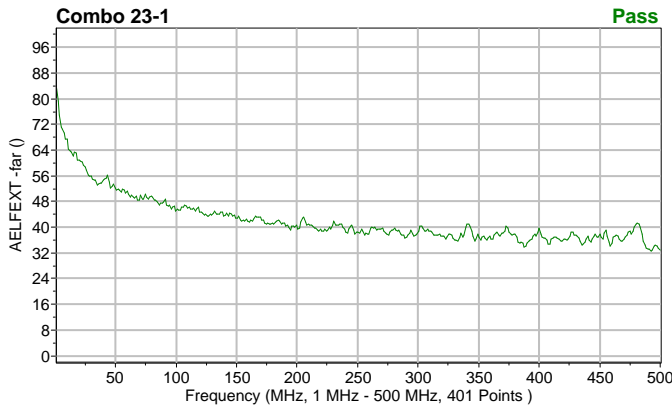
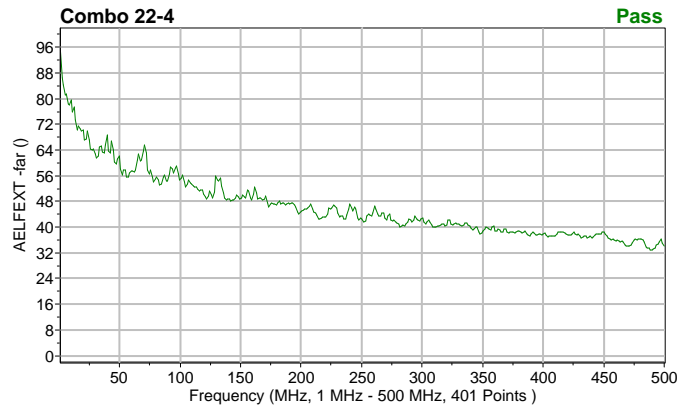
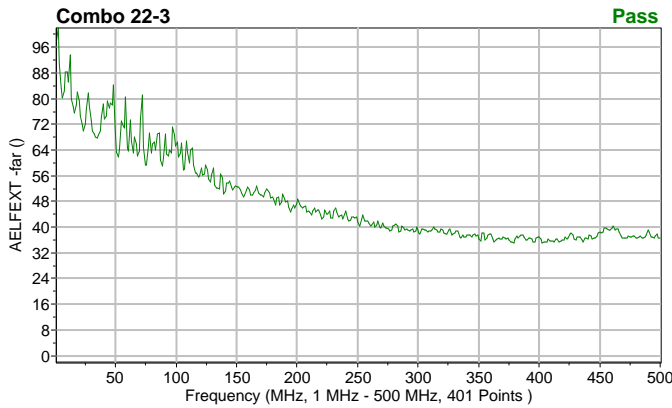
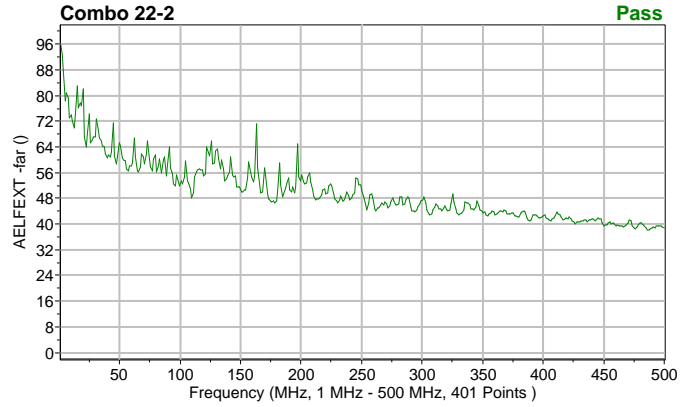
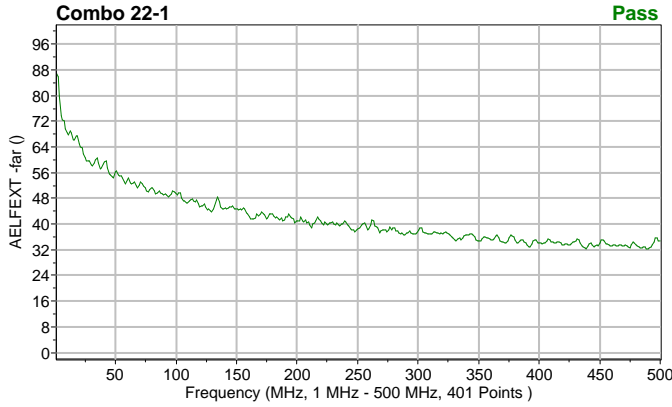
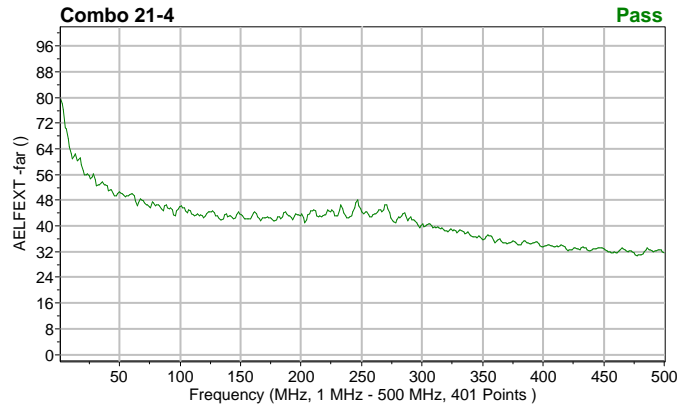
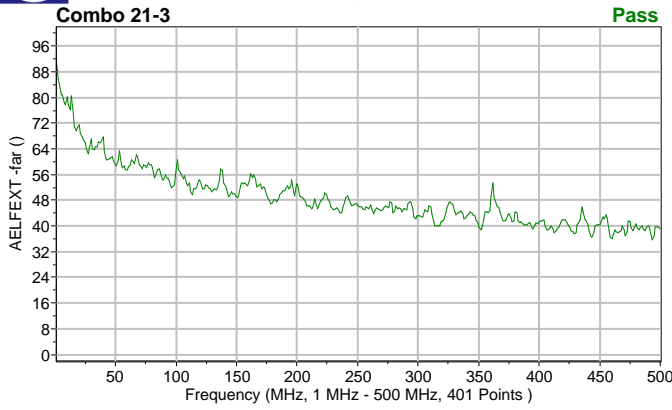


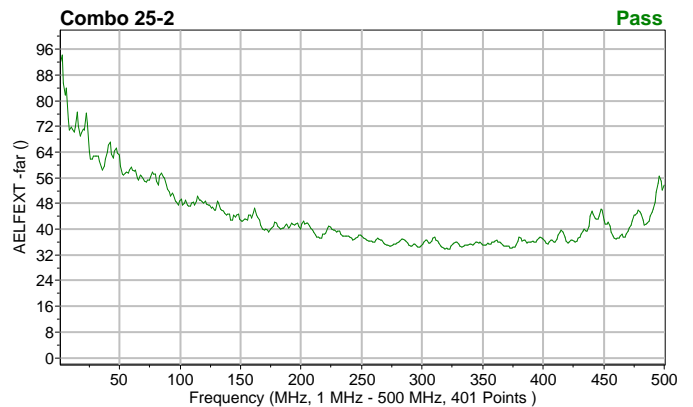
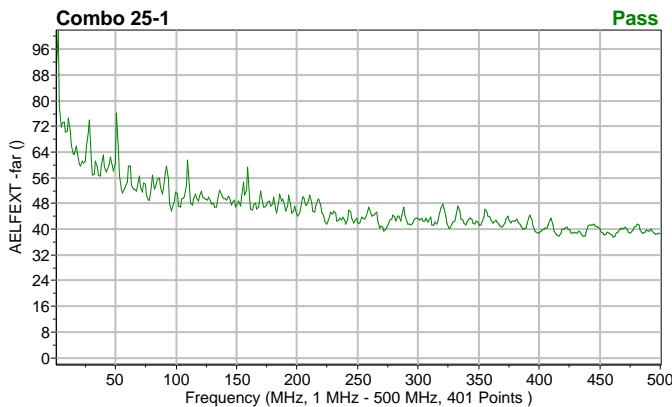
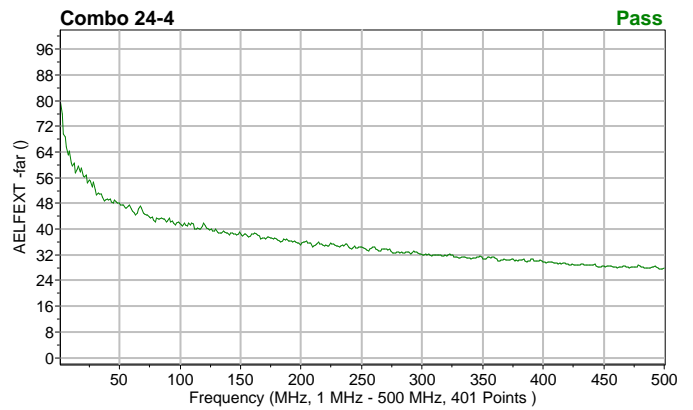
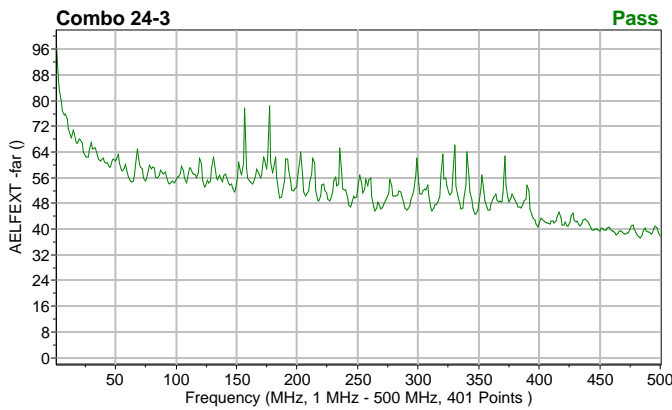
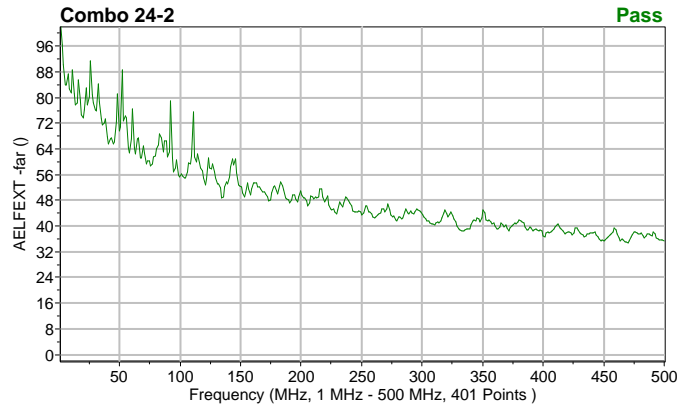
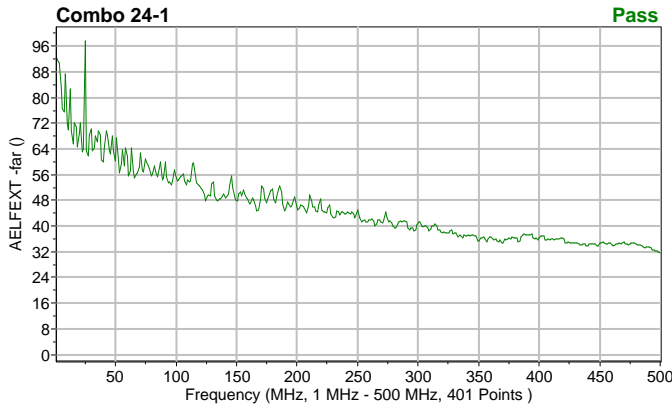
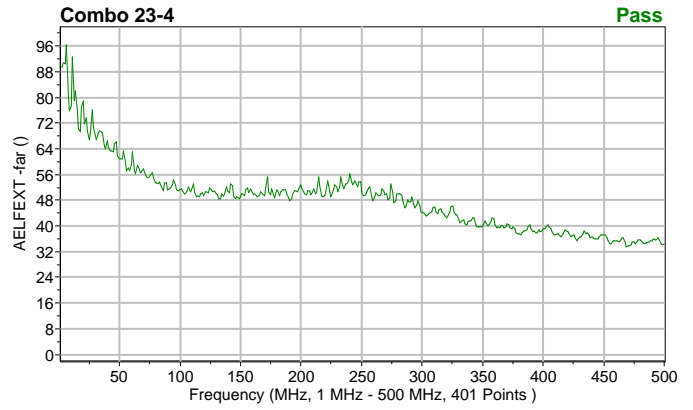
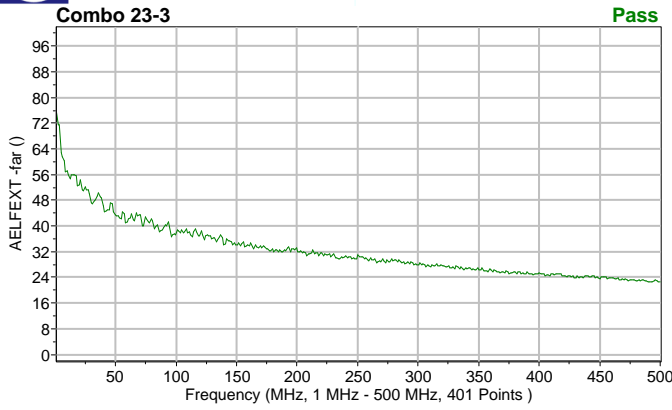


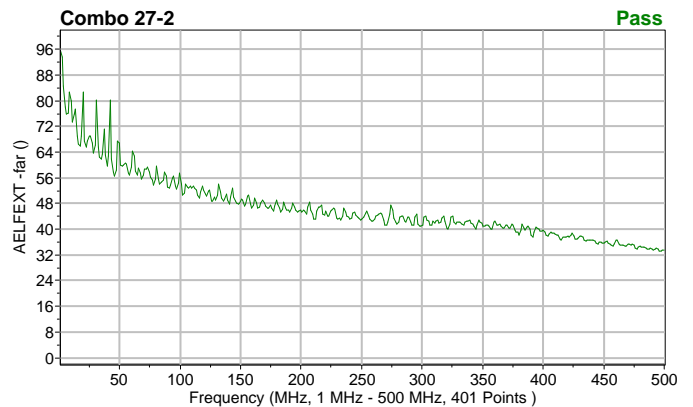
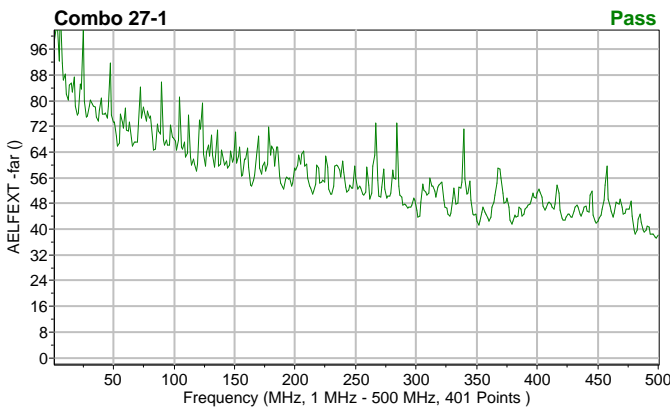
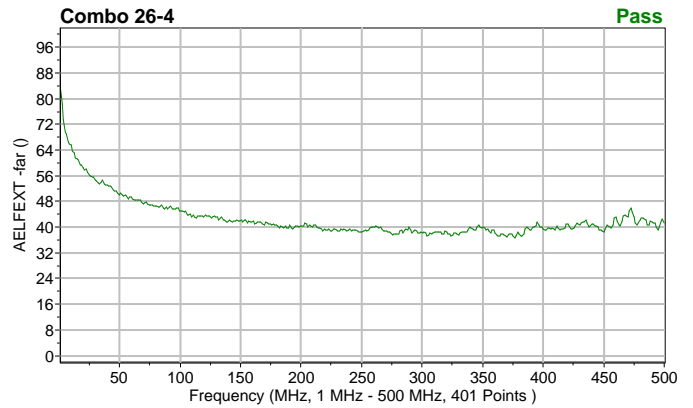
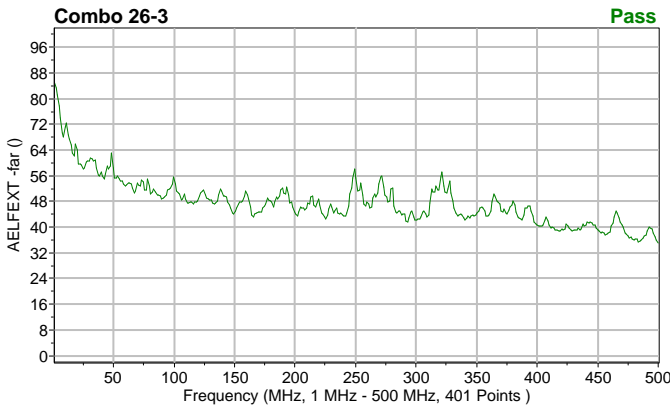
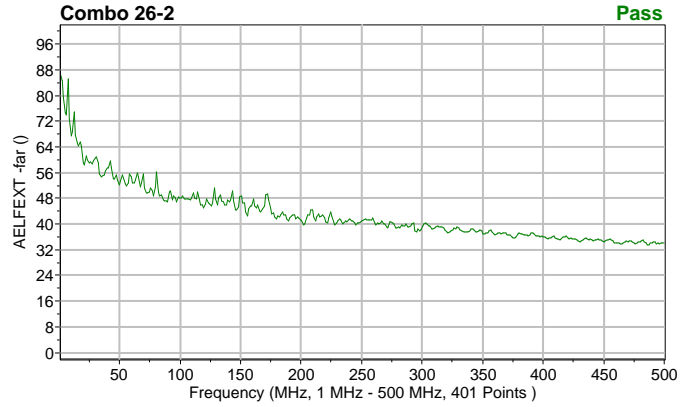
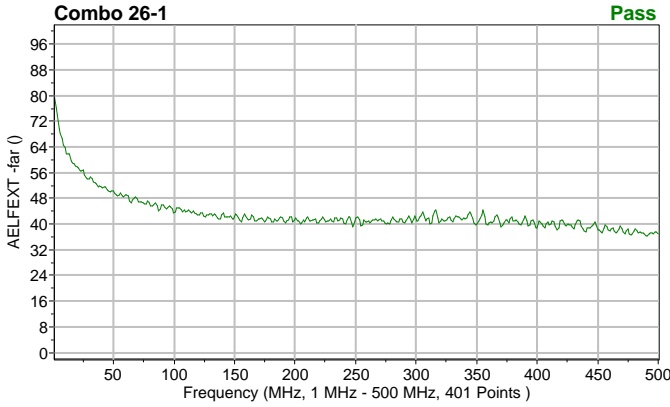
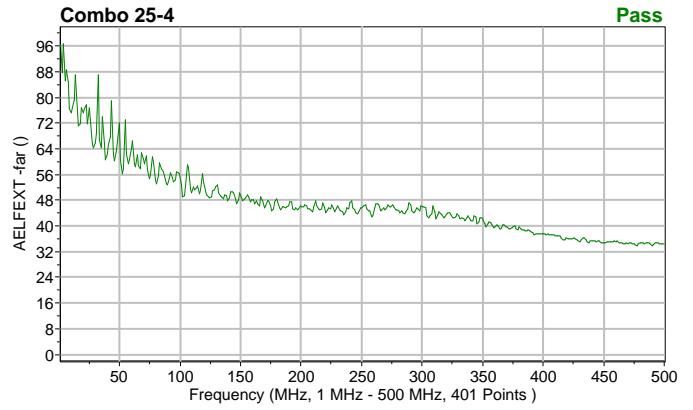
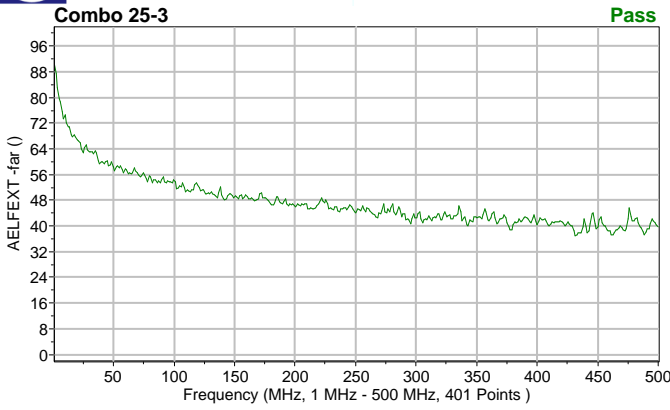


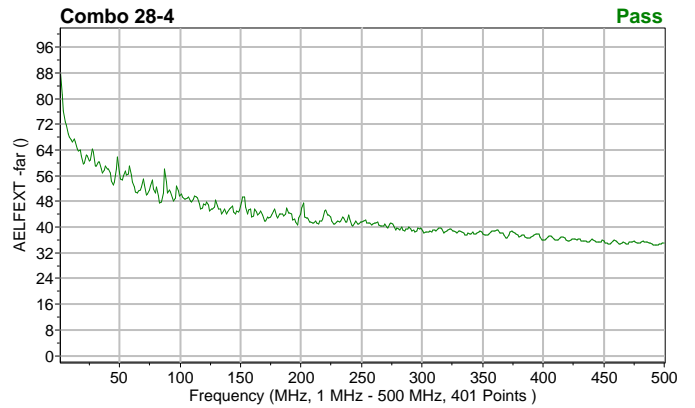
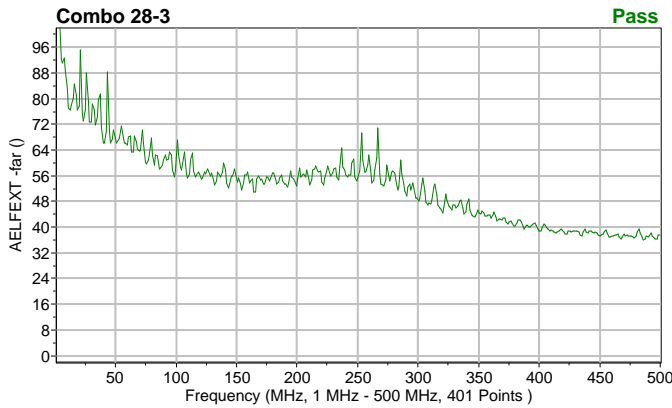
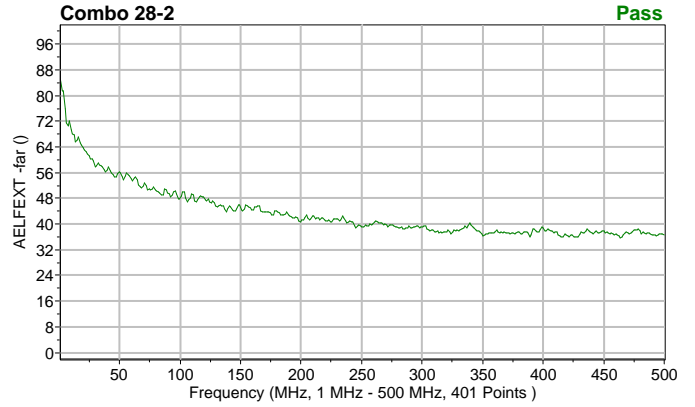
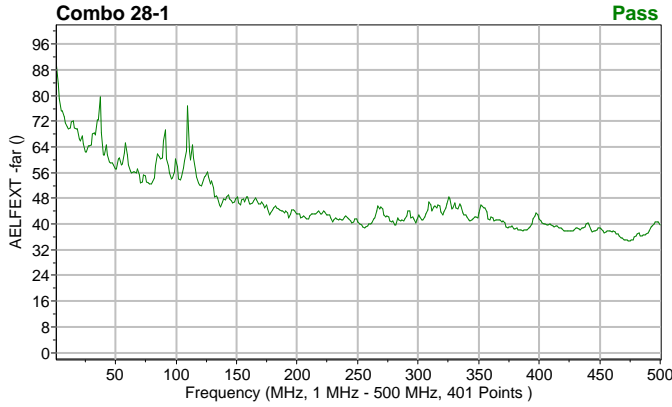
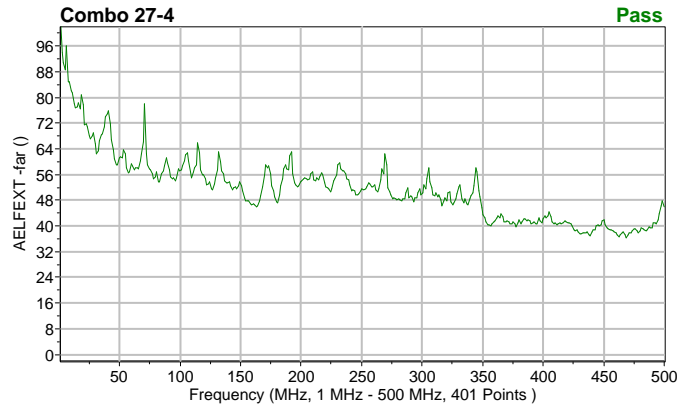
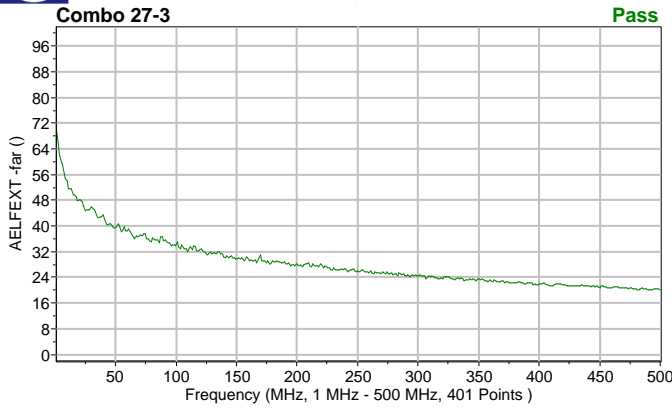








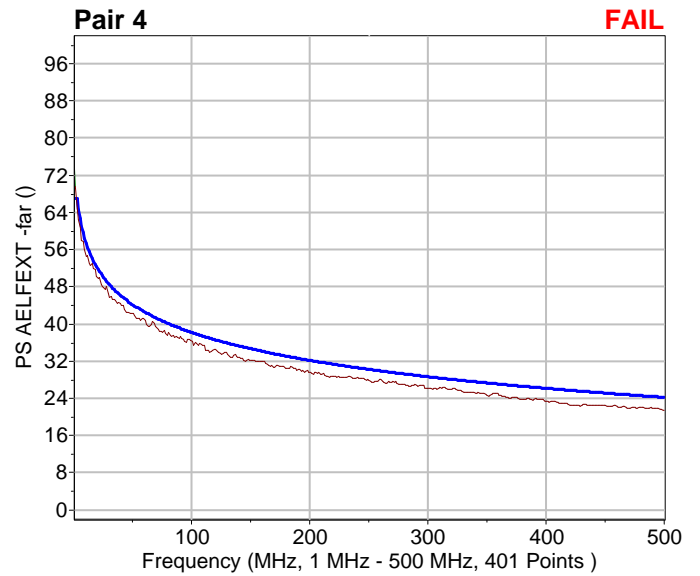
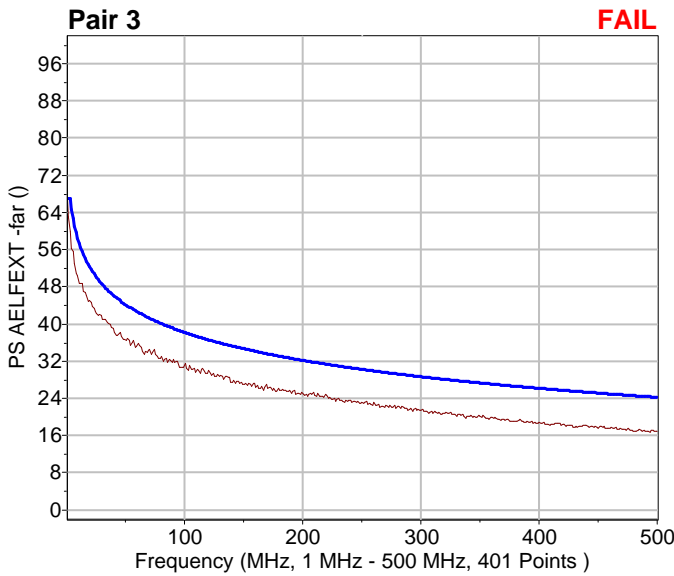
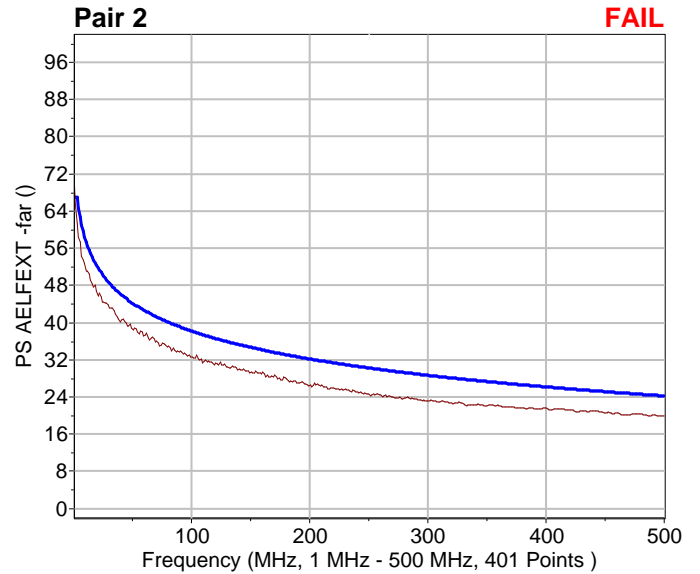
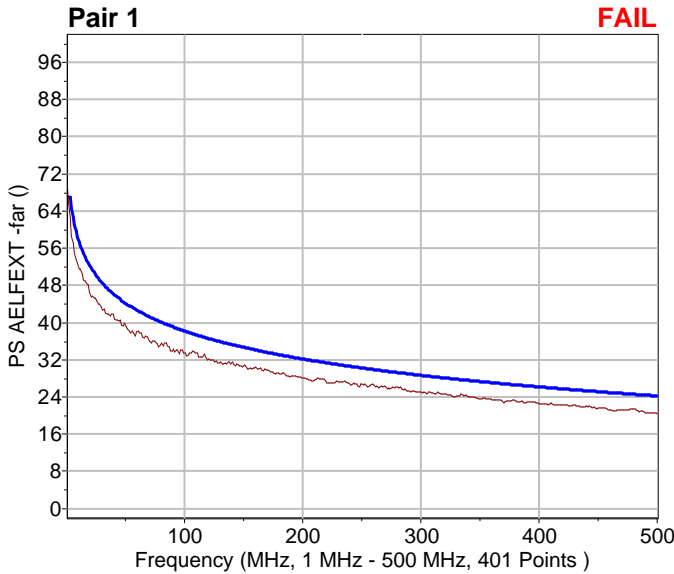




Summary and Graphic: Power Sum Alien ELFEXT -far (PS AELFEXT -far)

{ v = Value () l = Limit () m = Margin () f = Frequency (MHz) }

Pair	Start f	Stop f	Points	Minimum { v [ff] }	Maximum { v [ff] }	Min. Margin { m (v l) [ff] }	Result
1	1	500	401	20.4 [500]	69.7 [1]	-6.4 (45.4 < 51.8) [20.96]	FAIL
2	1	500	401	19.9 [496.3]	70.1 [1]	-6.7 (54.3 < 61.0) [7.237]	FAIL
3	1	500	401	16.8 [493.8]	67.7 [1]	-8.8 (50.8 < 59.6) [8.485]	FAIL
4	1	500	401	21.3 [500]	74.1 [1]	-3.2 (22.4 < 25.7) [422.7]	FAIL



Pair	Errors	First Error { v l (m) [ff] }	Worst Error { v l (m) [ff] }	Last Error { v l (m) [ff] }
1	400	66.2 < 67.0 (0.8) [2.247]	45.4 < 51.8 (-6.4) [20.96]	20.4 < 24.2 (3.9) [500]
2	400	65.6 < 67.0 (1.4) [2.247]	54.3 < 61.0 (-6.7) [7.237]	19.9 < 24.2 (4.3) [500]
3	400	63.1 < 67.0 (3.9) [2.247]	50.8 < 59.6 (-8.8) [8.485]	16.8 < 24.2 (7.4) [500]
4	399	64.8 < 67.0 (2.2) [3.495]	22.4 < 25.7 (-3.2) [422.7]	21.3 < 24.2 (2.9) [500]

Final control authorized signature: