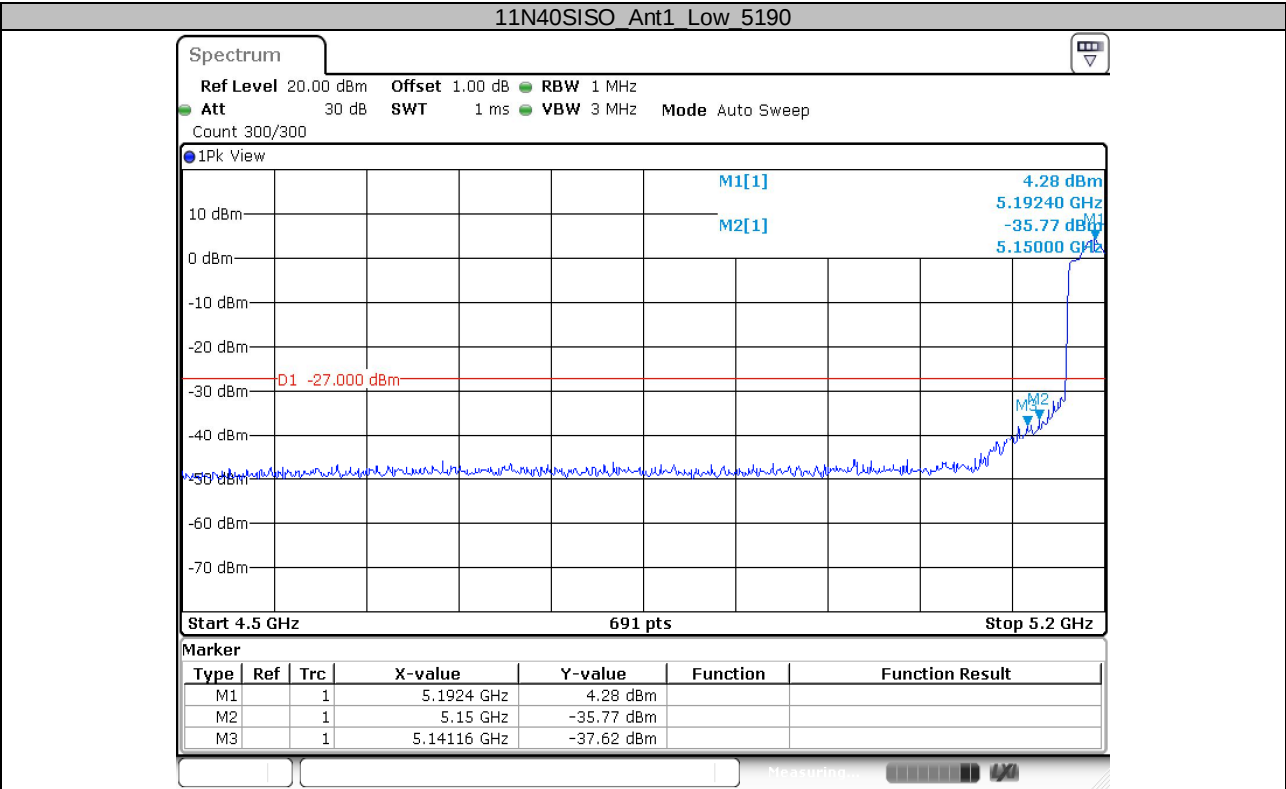
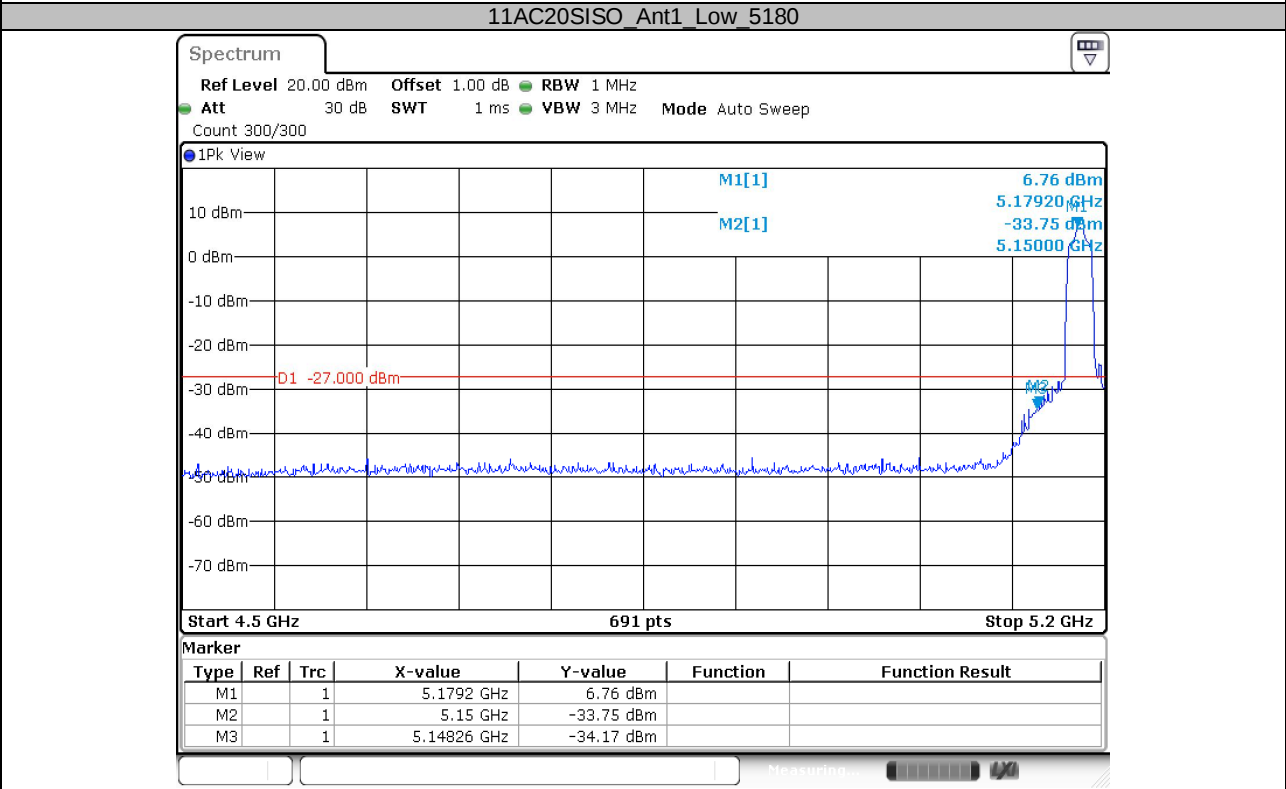


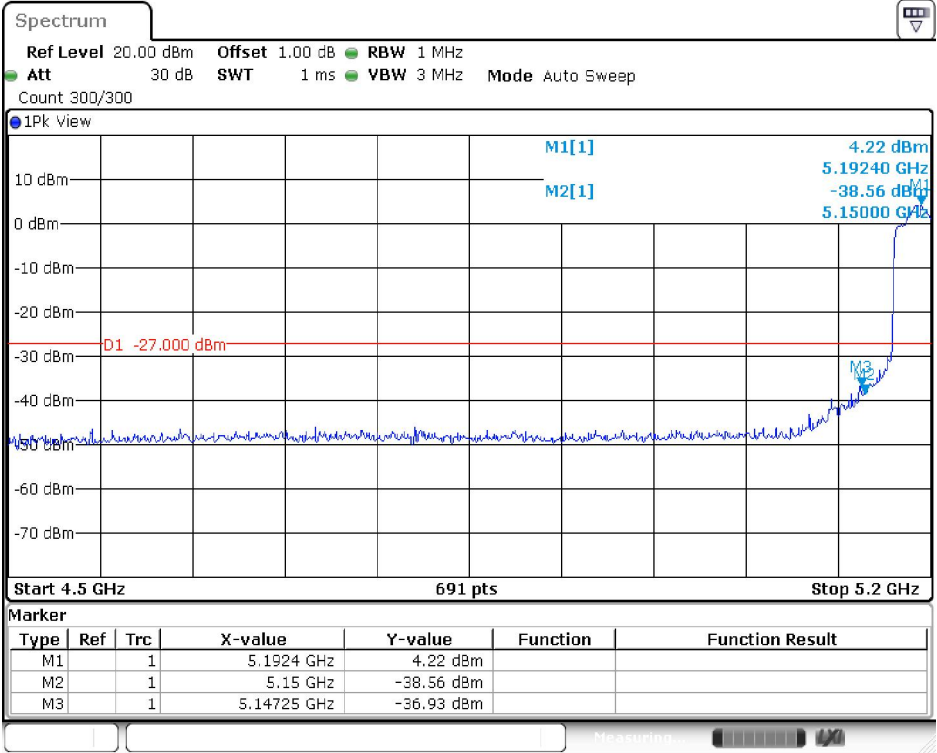


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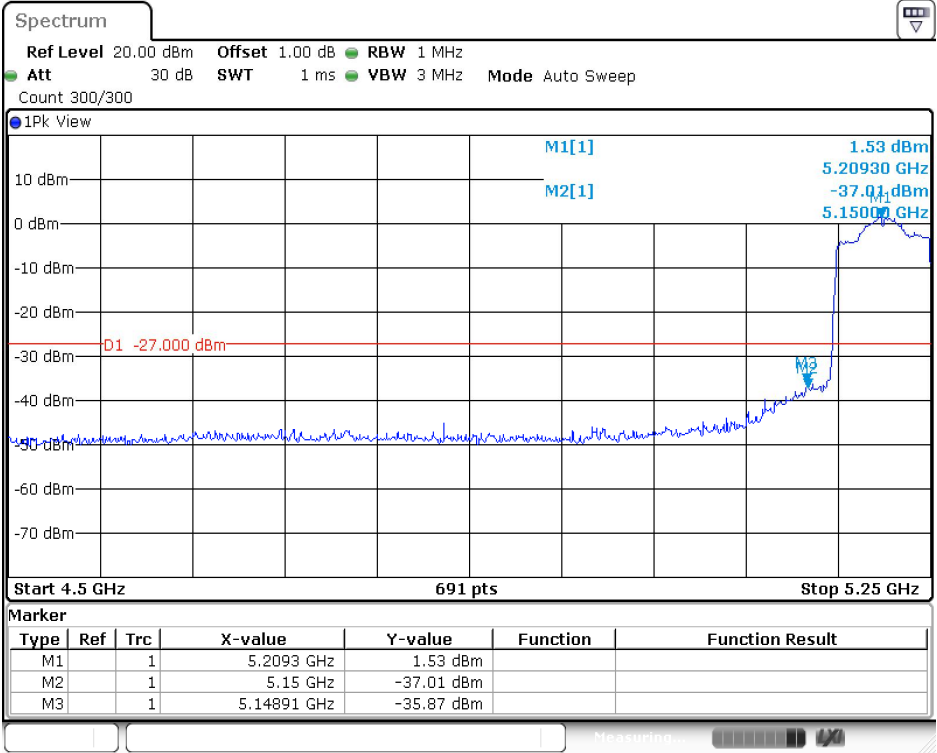
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11AC40SISO Ant1 Low 5190



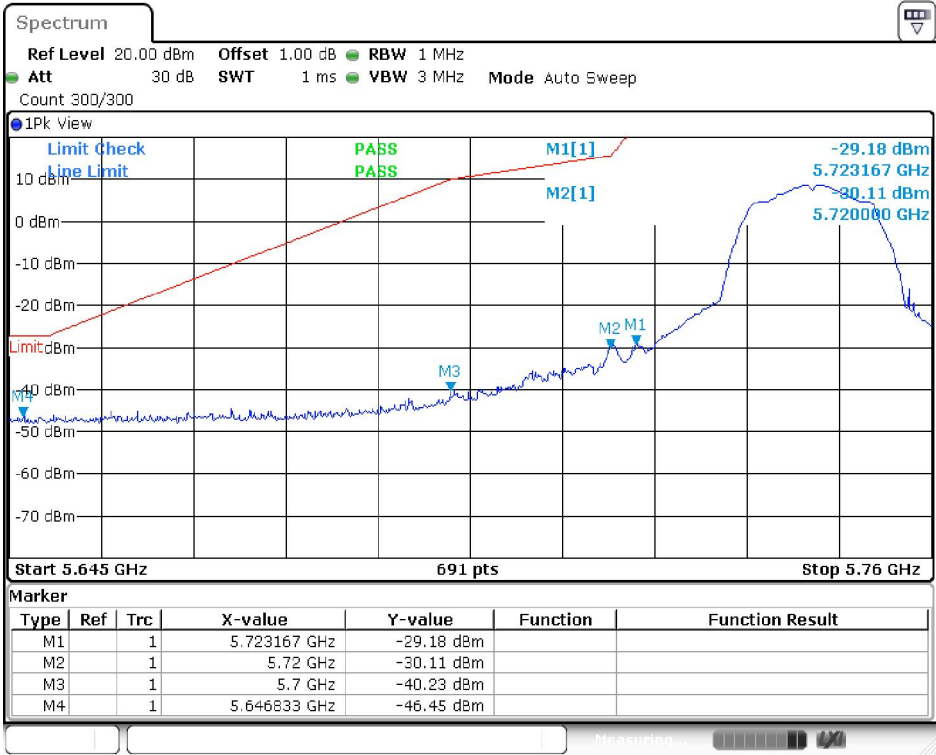
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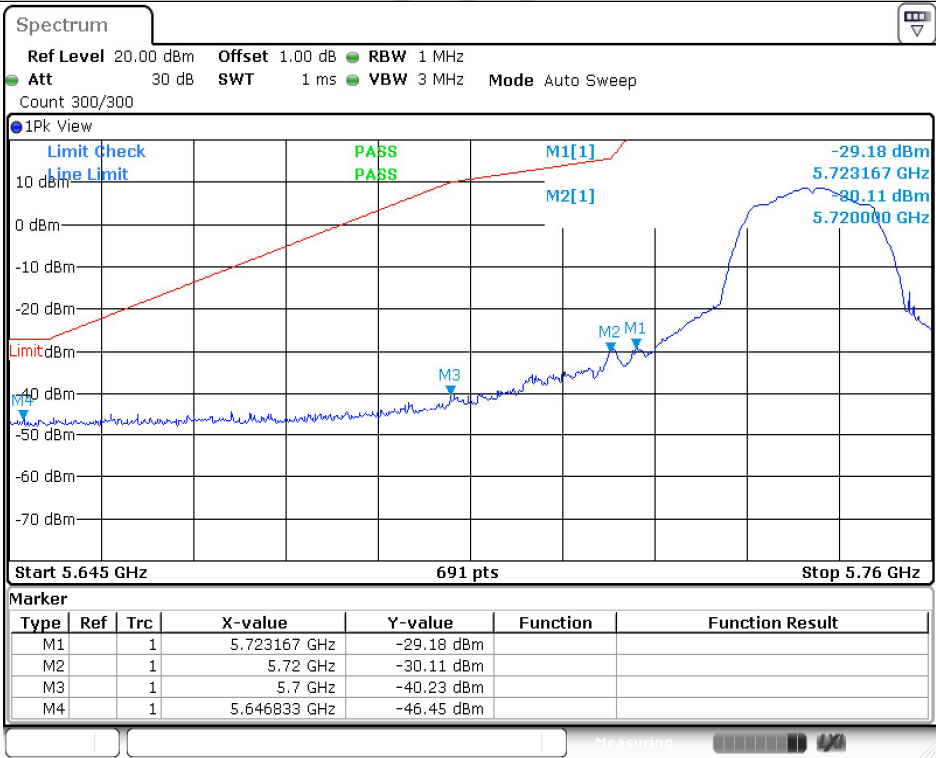
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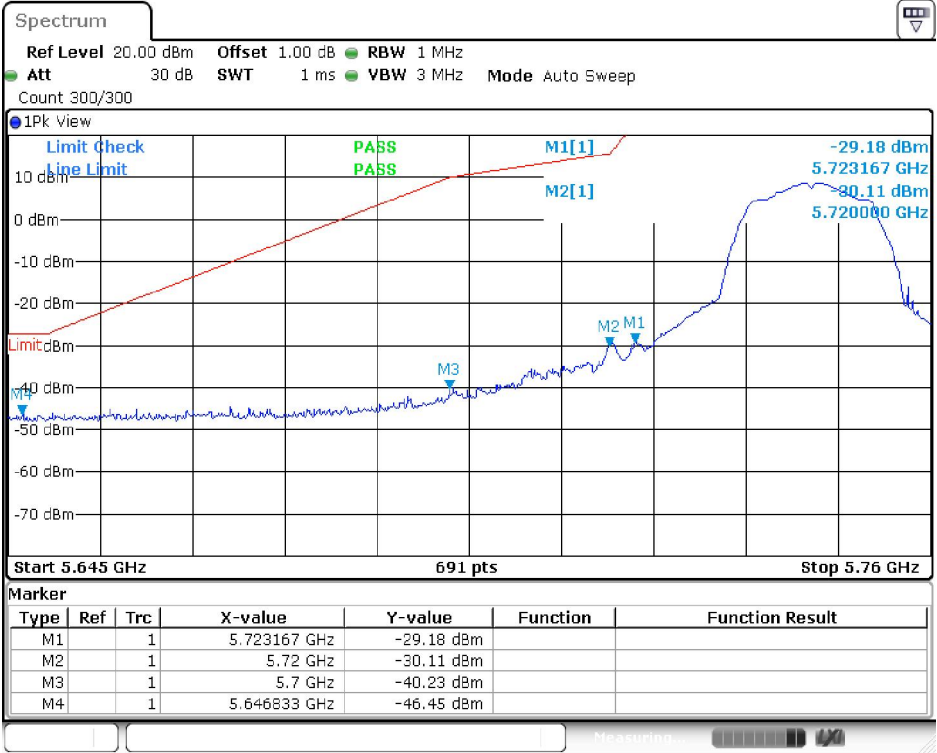
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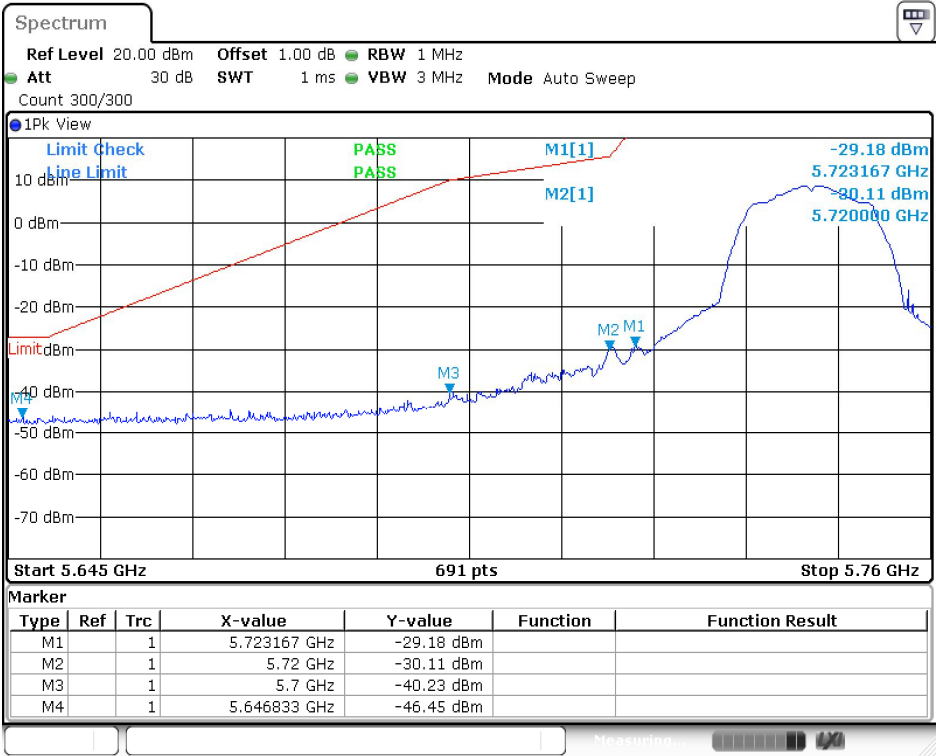
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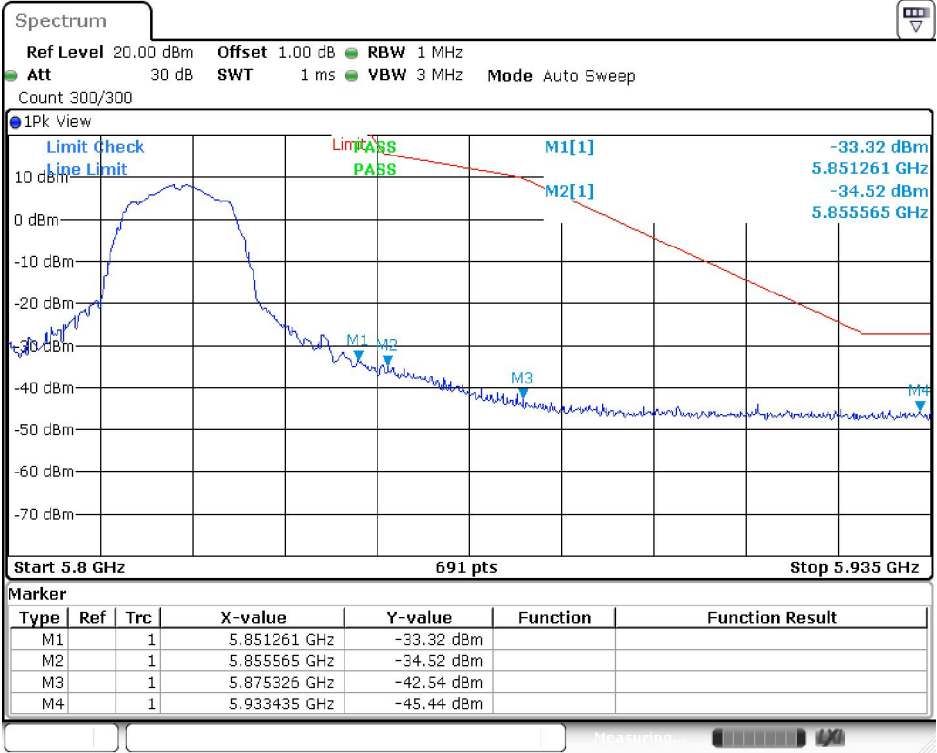
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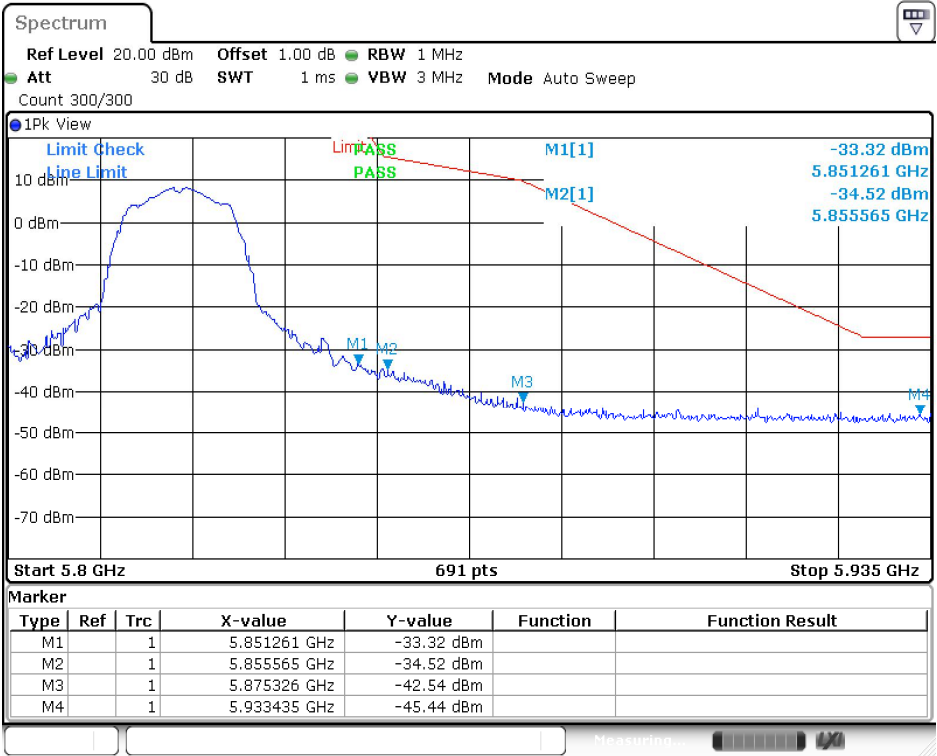
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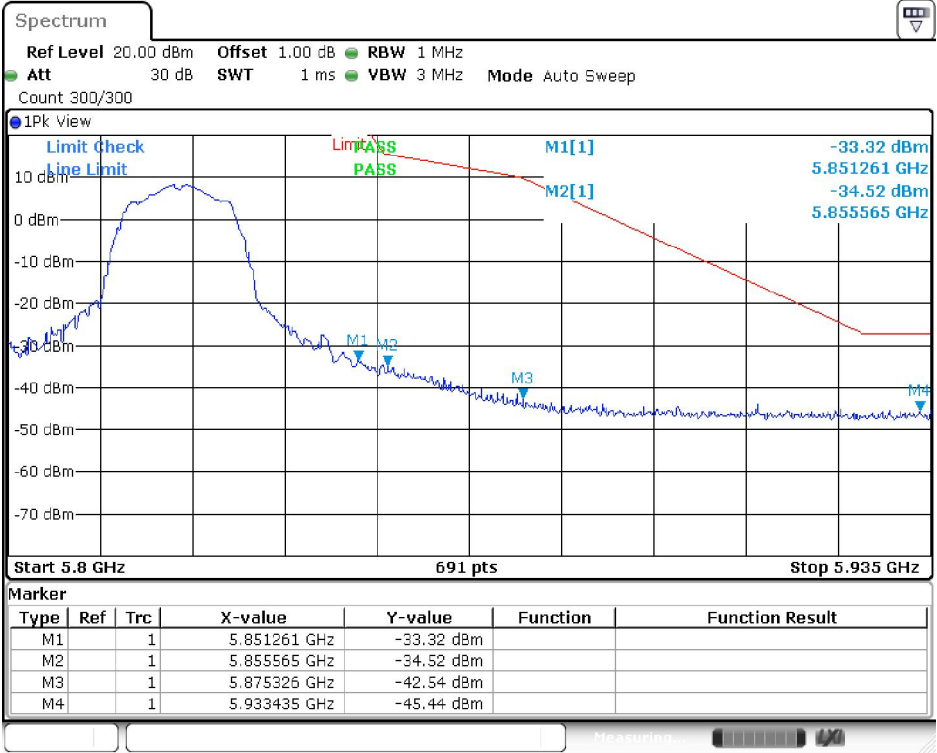
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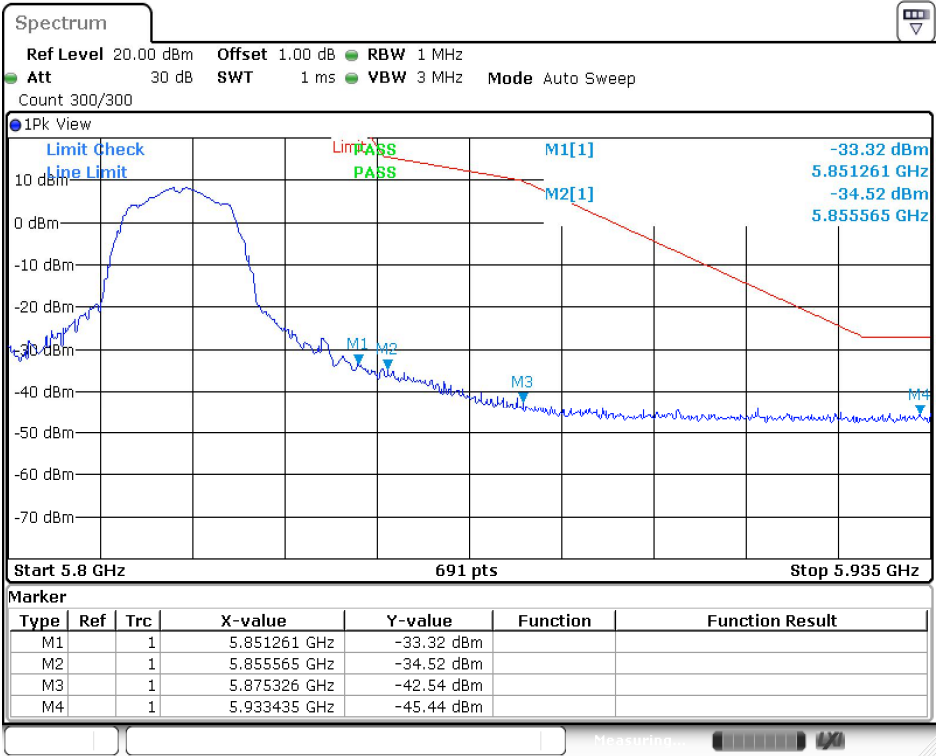
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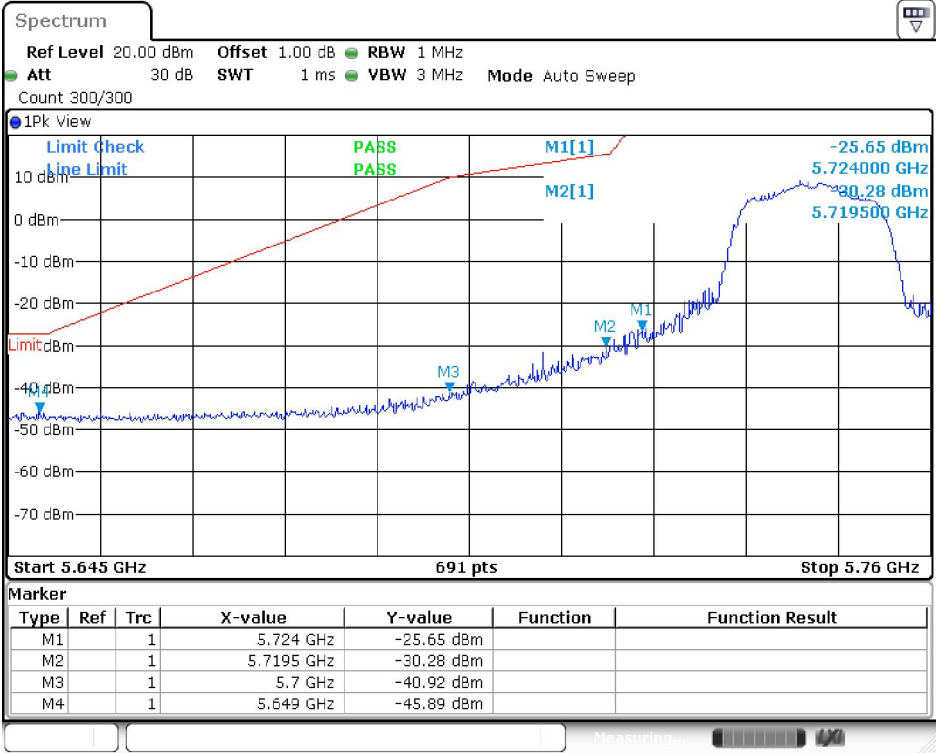
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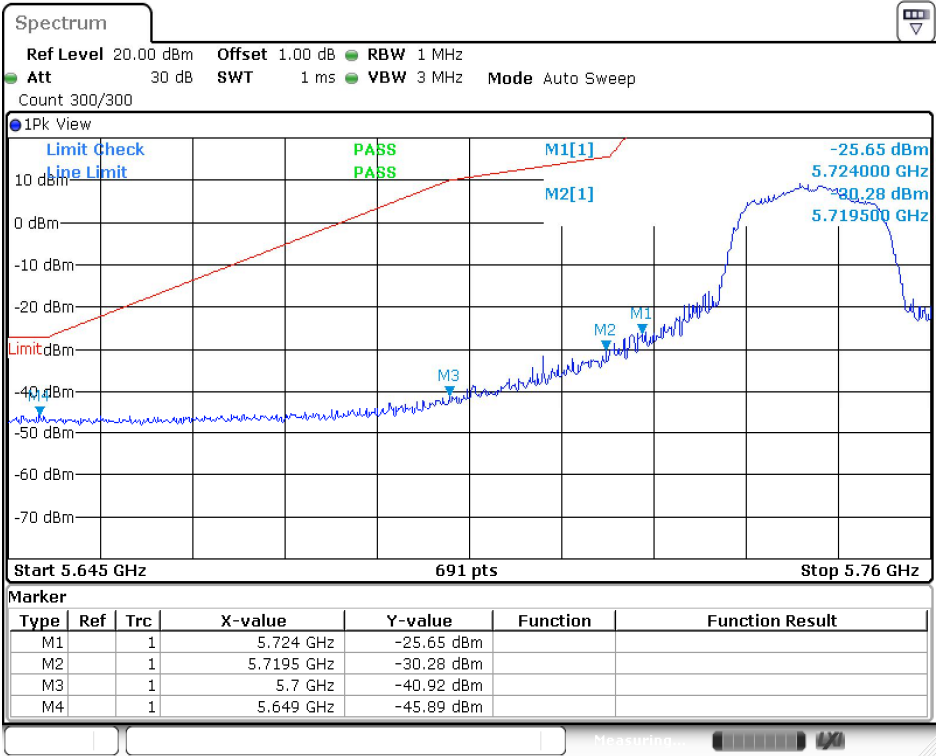
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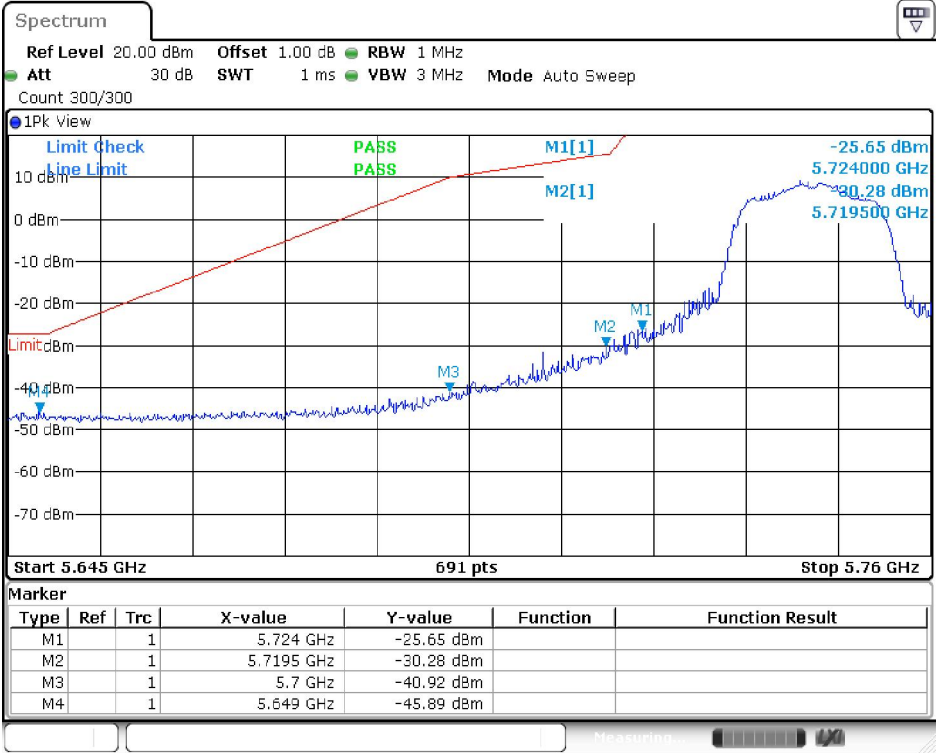
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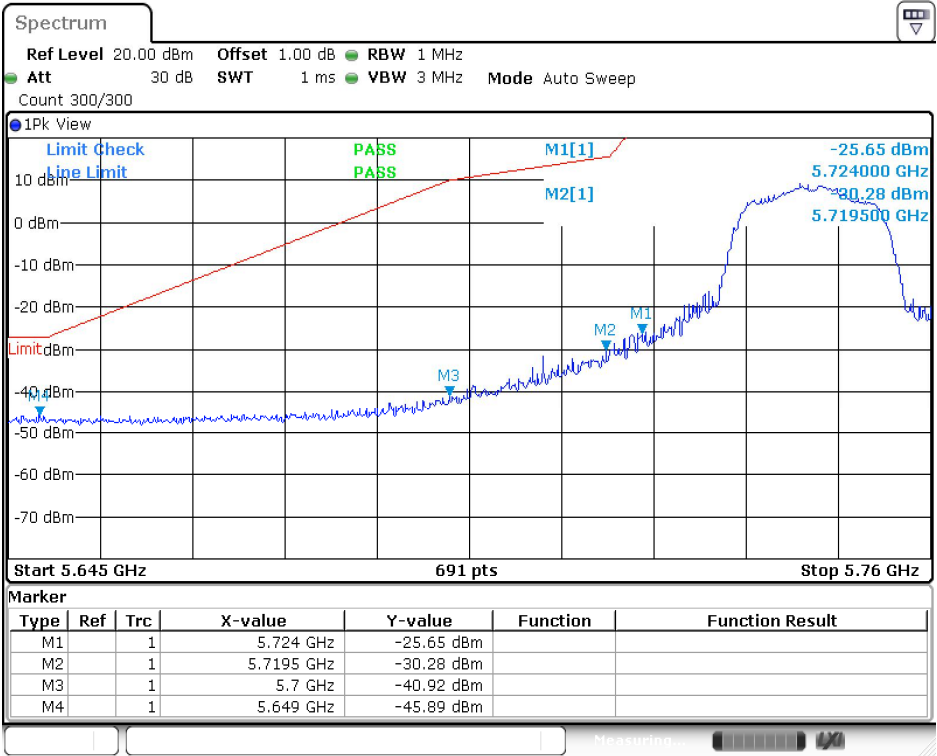
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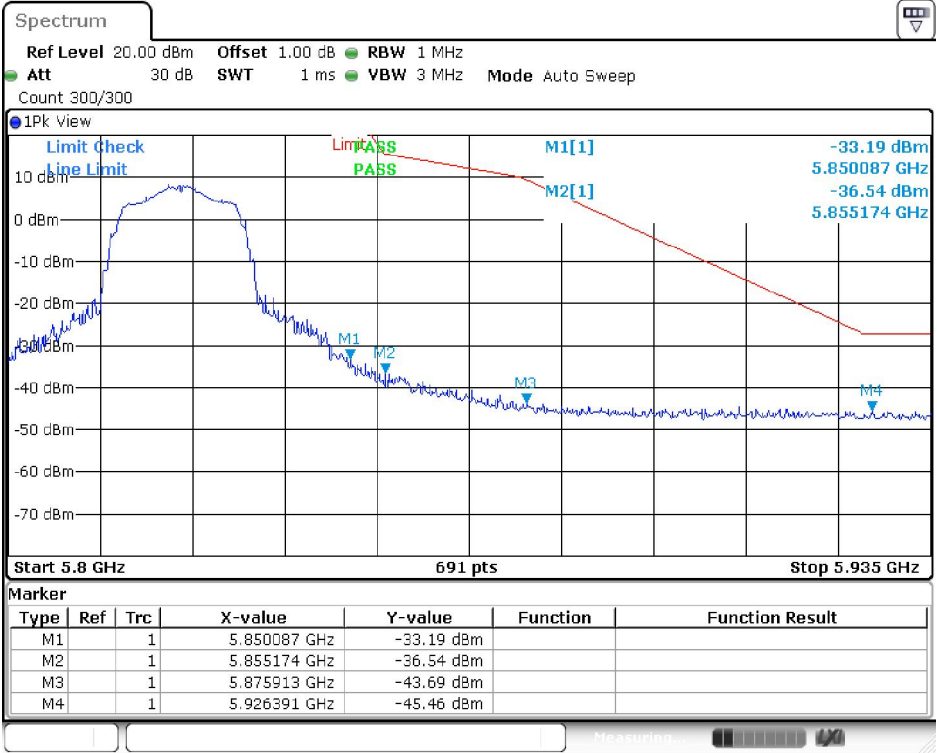
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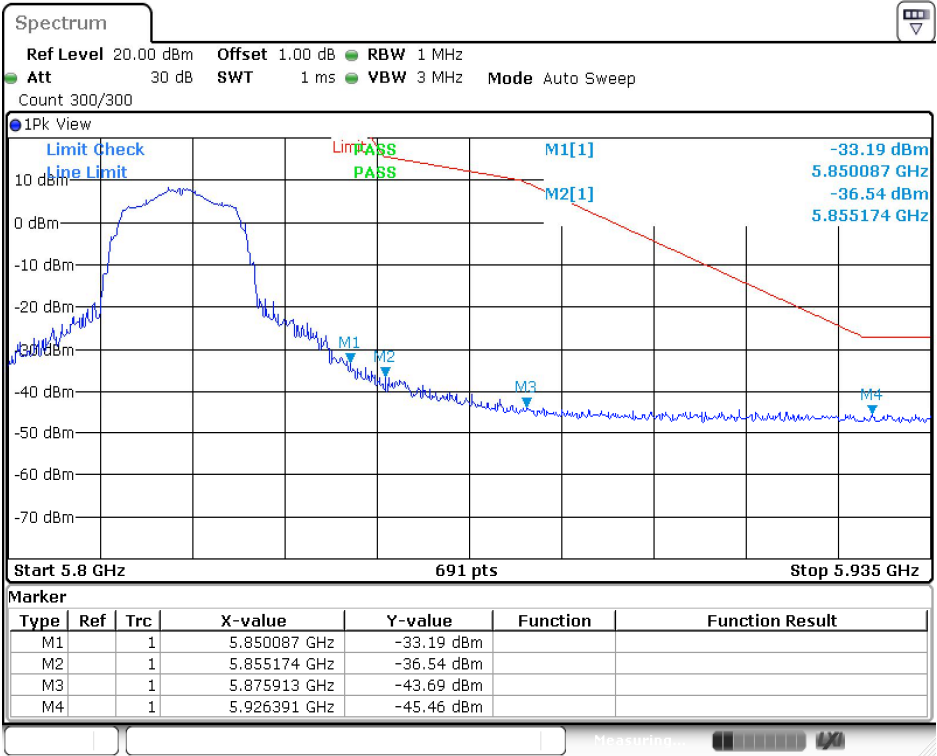
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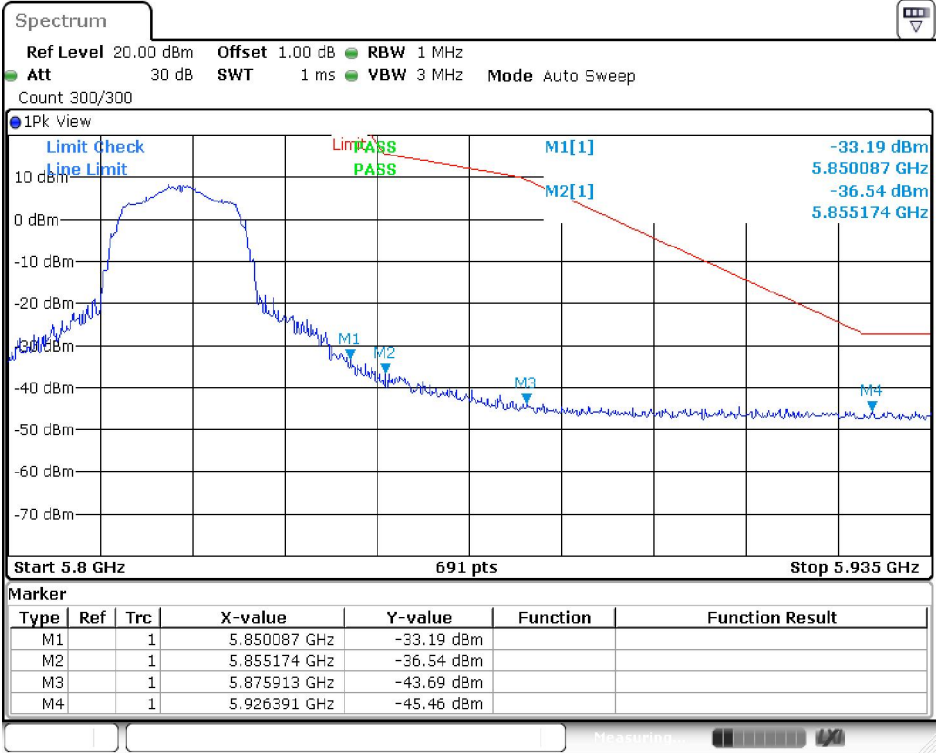
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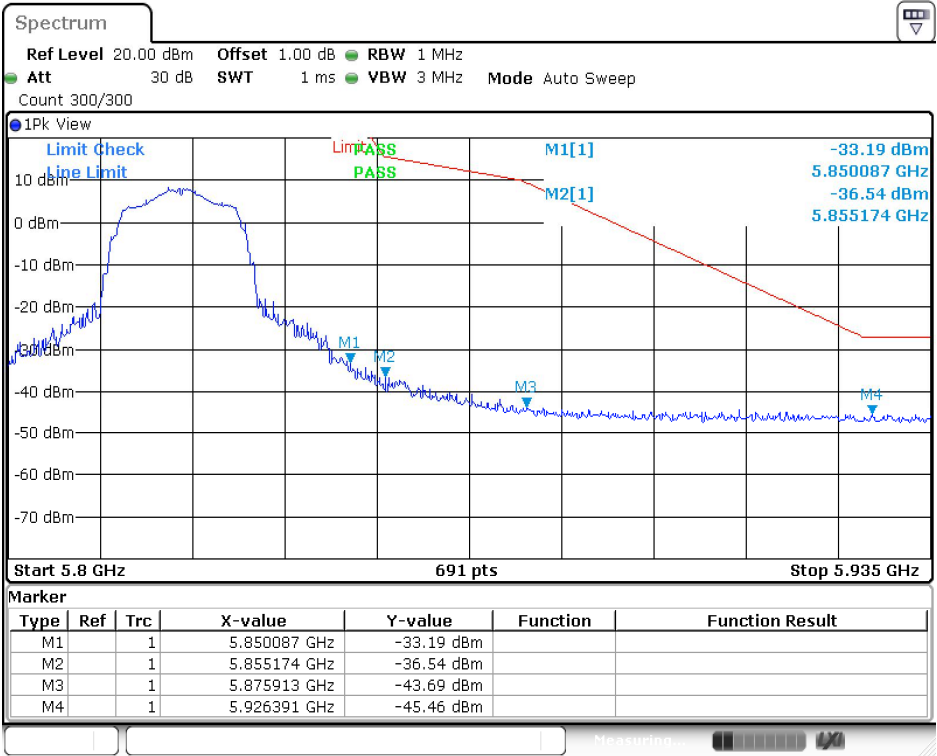
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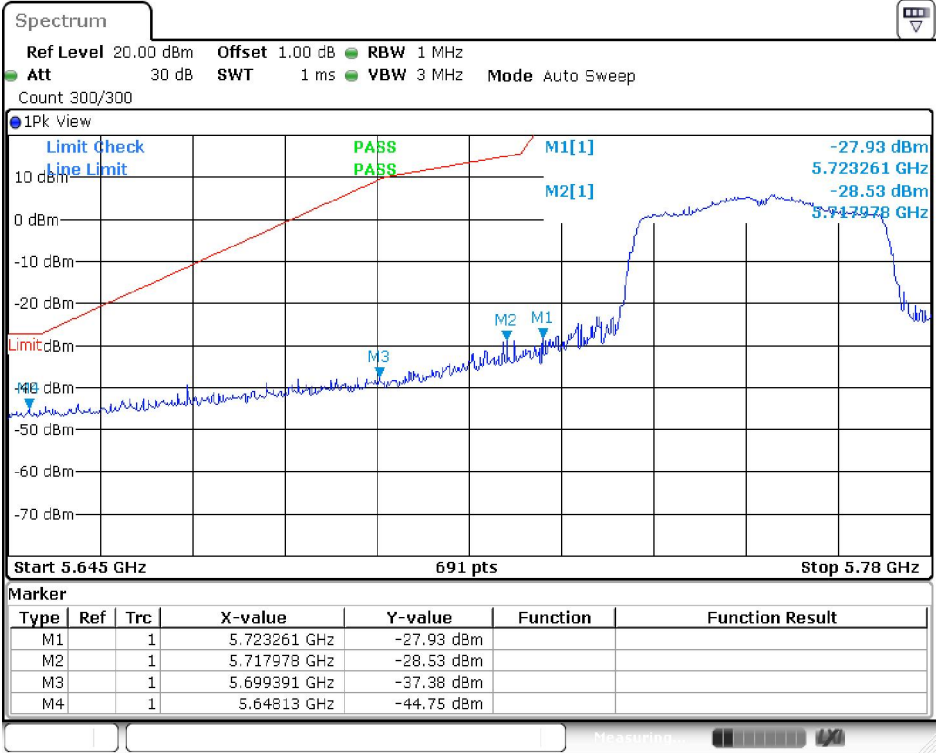
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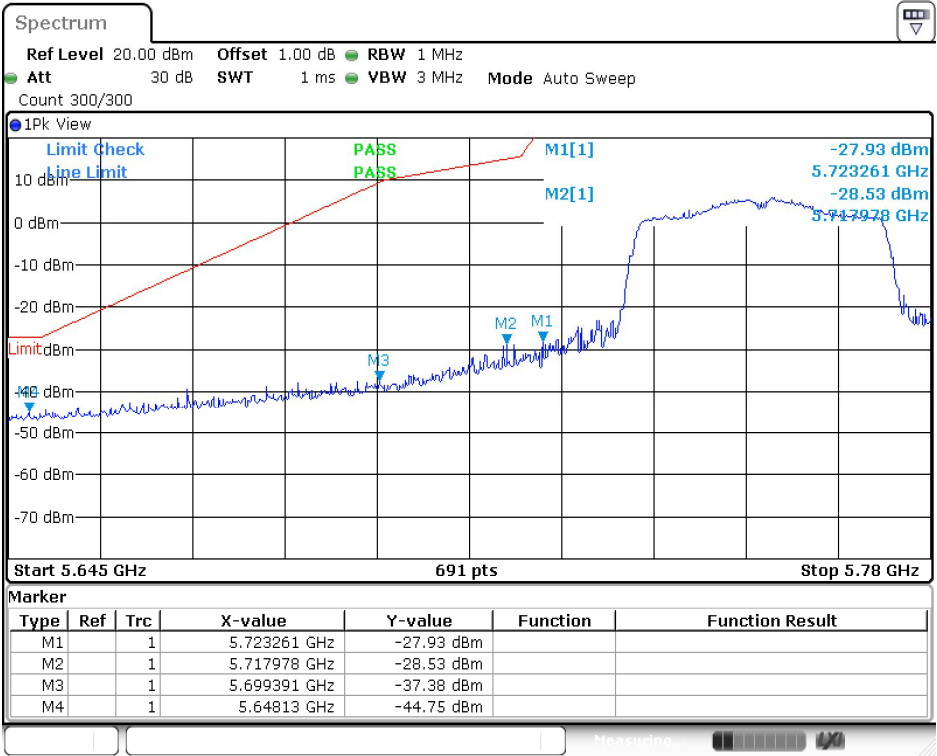
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11N40SISO_Ant1_Low_5755



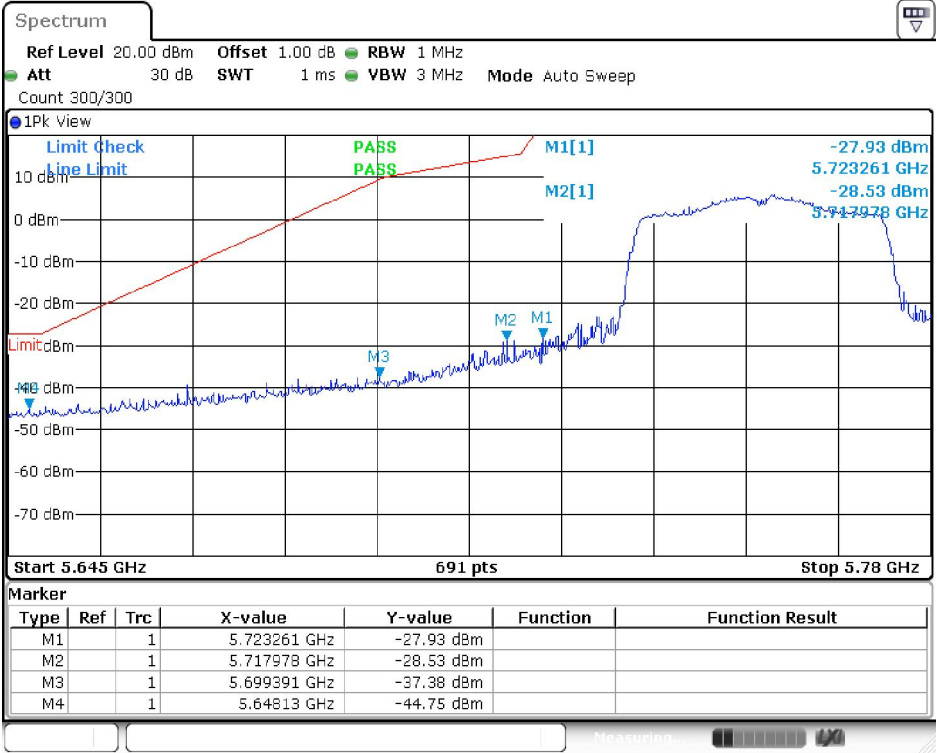
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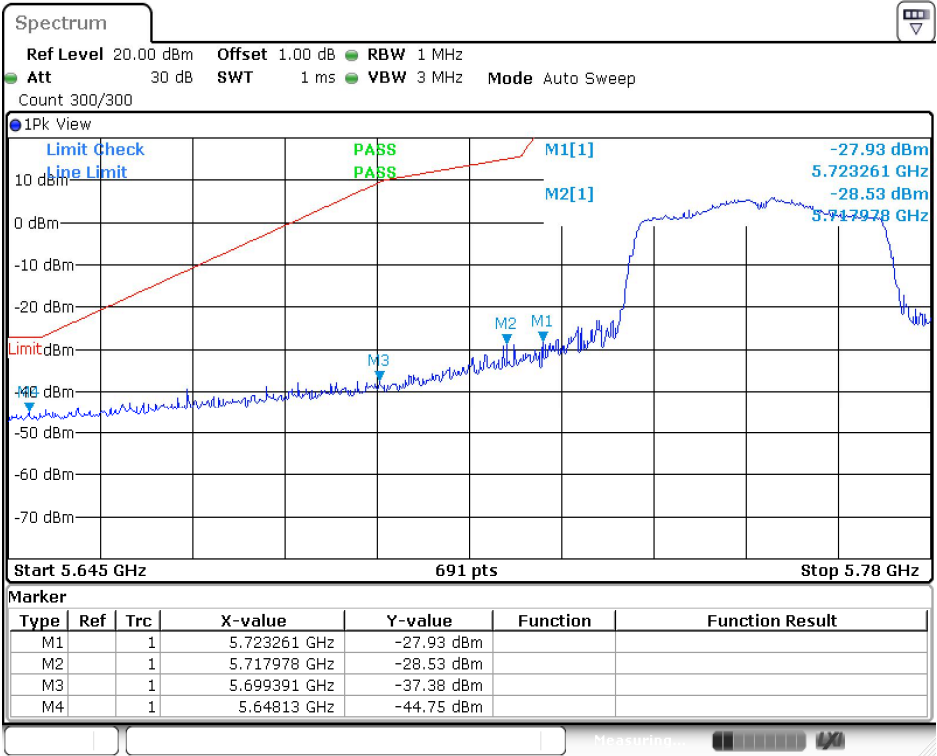
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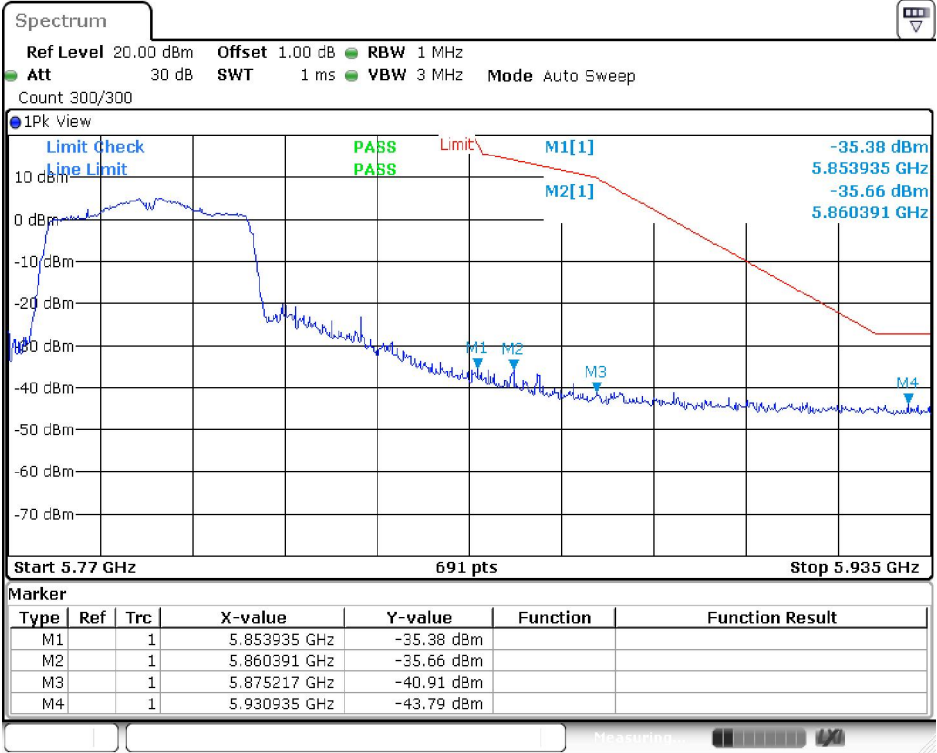
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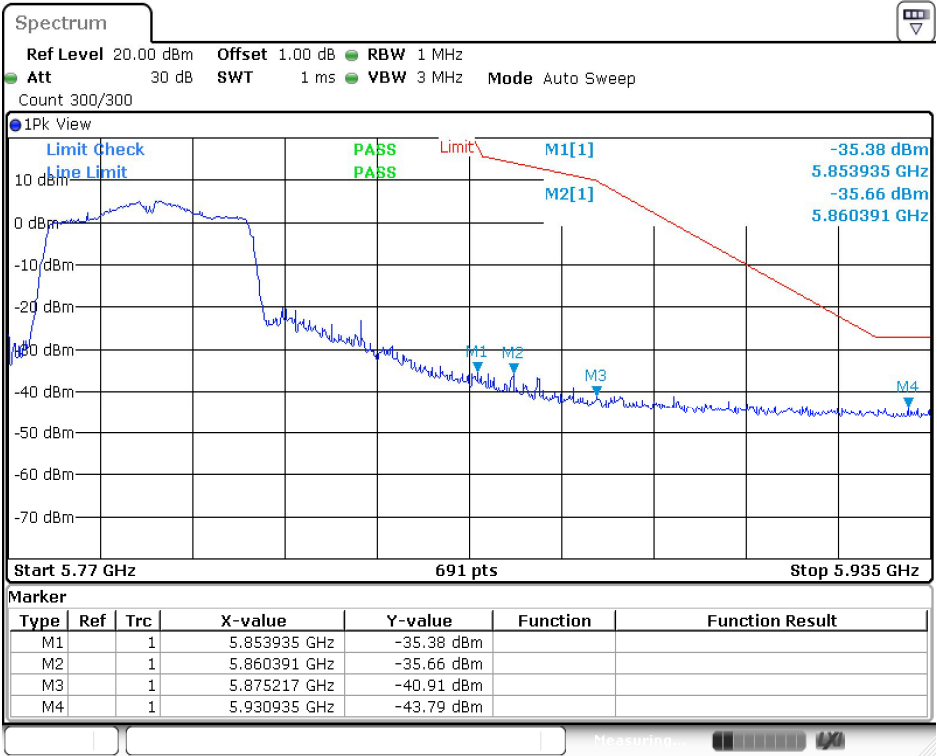
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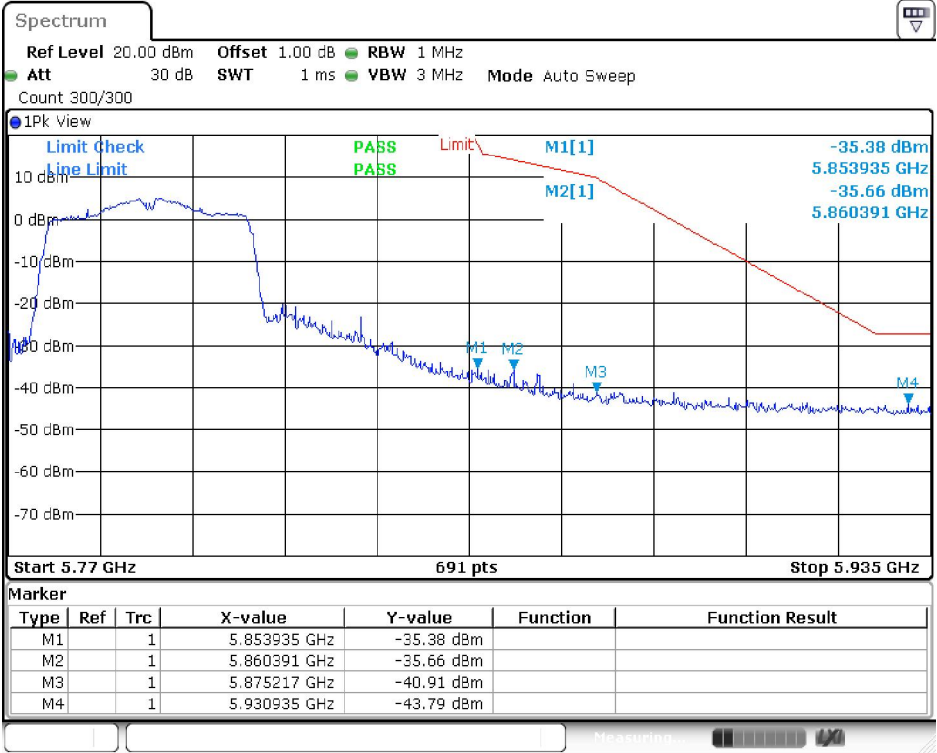
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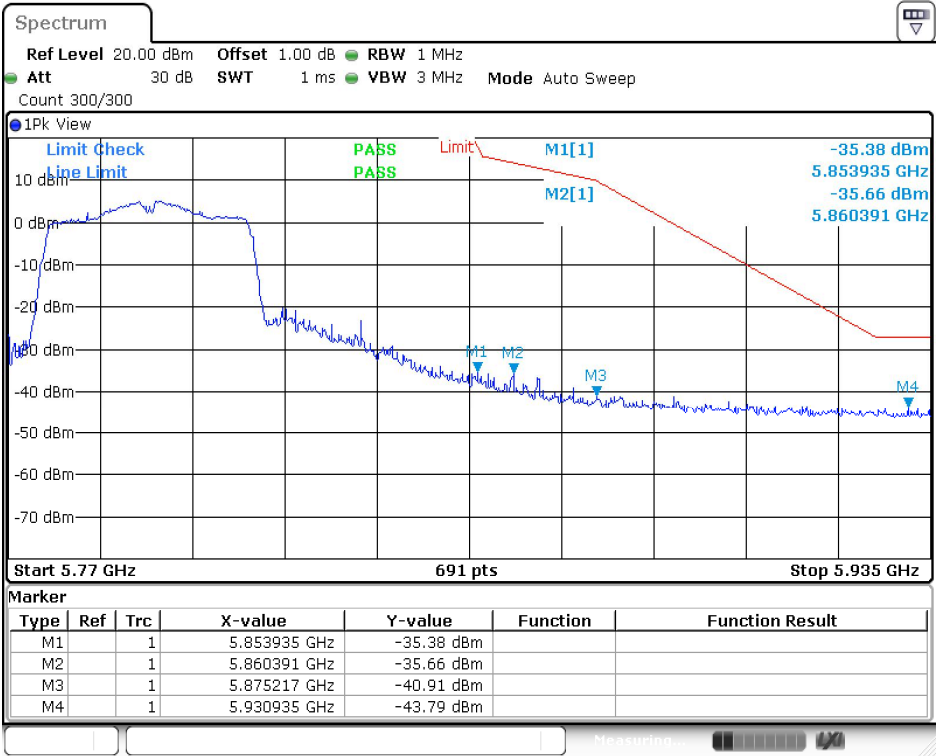
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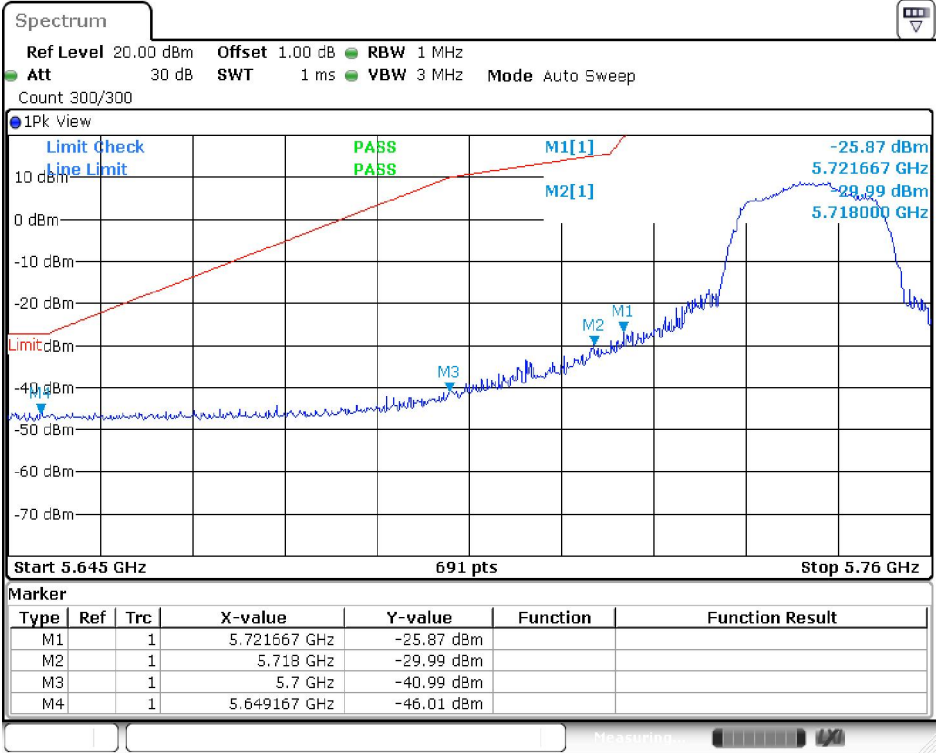
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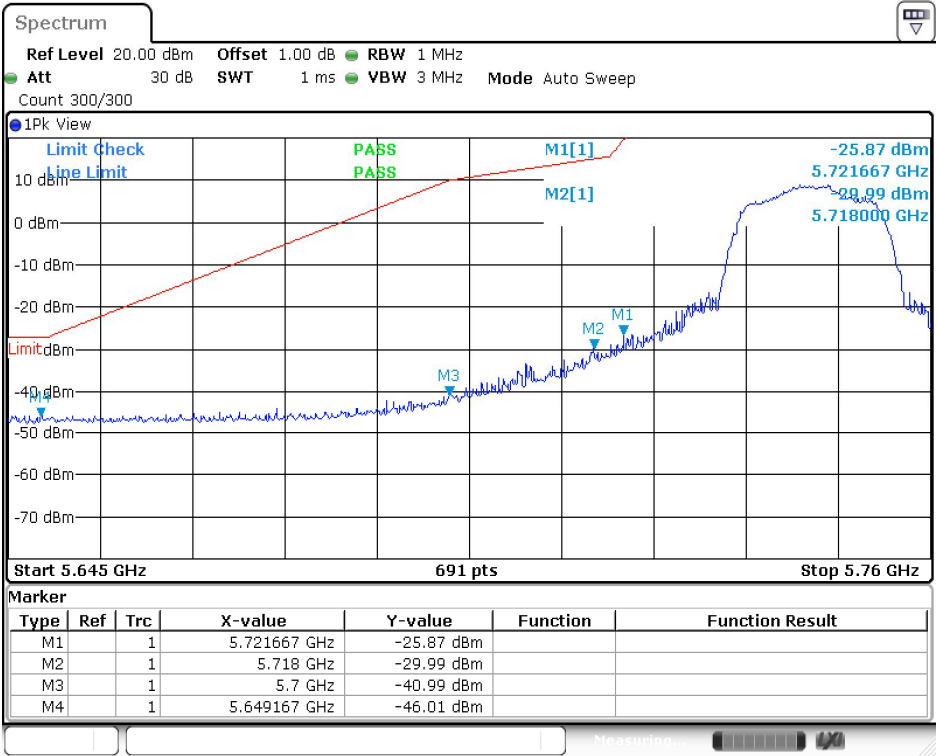
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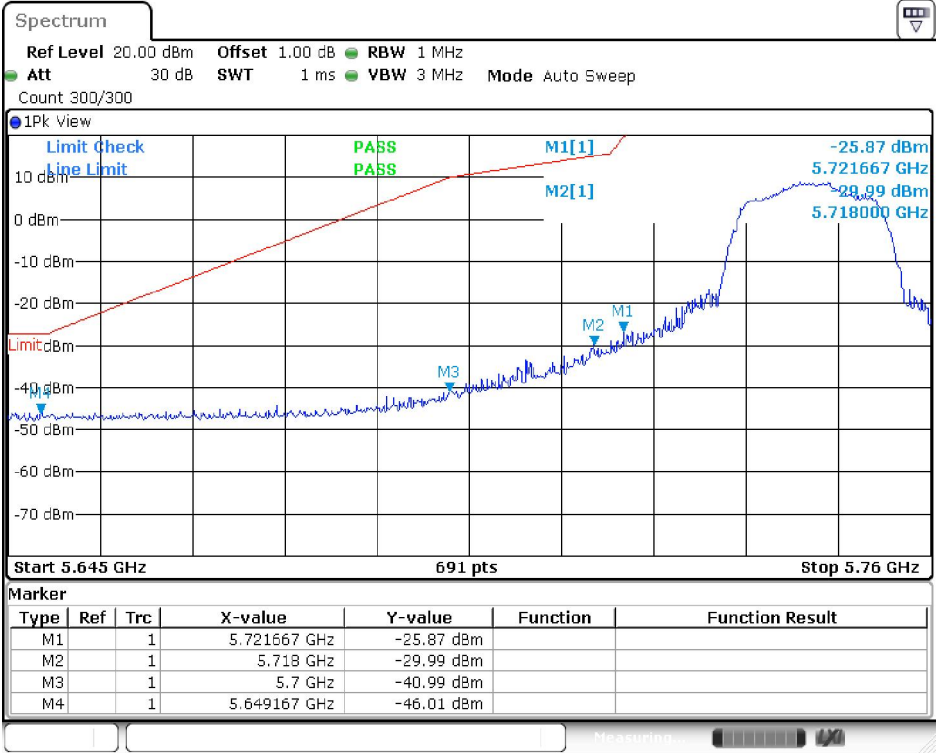
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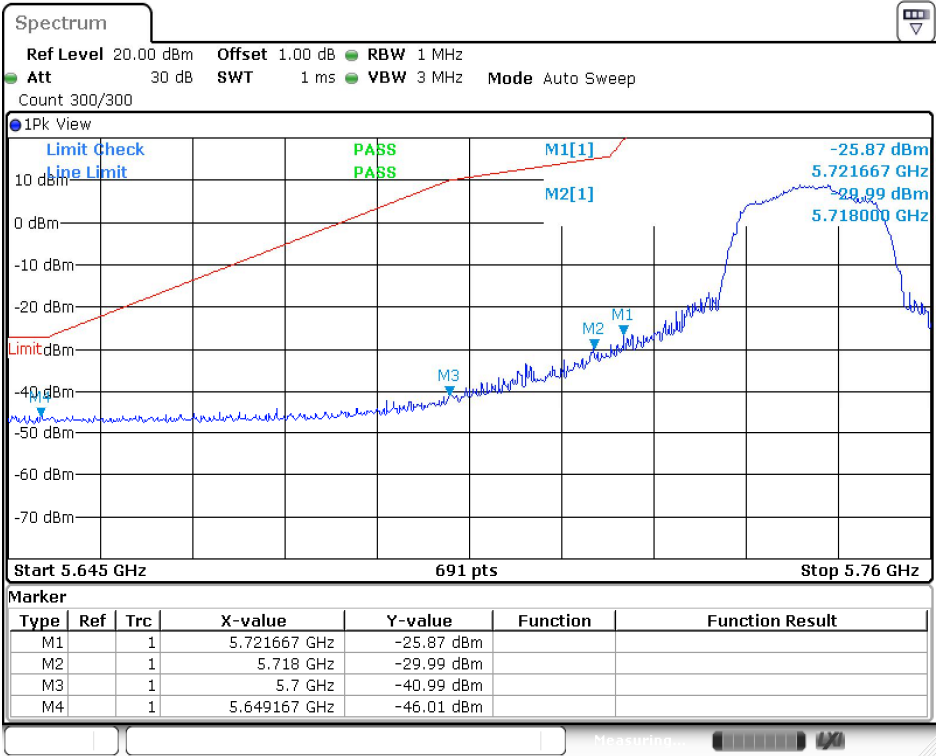
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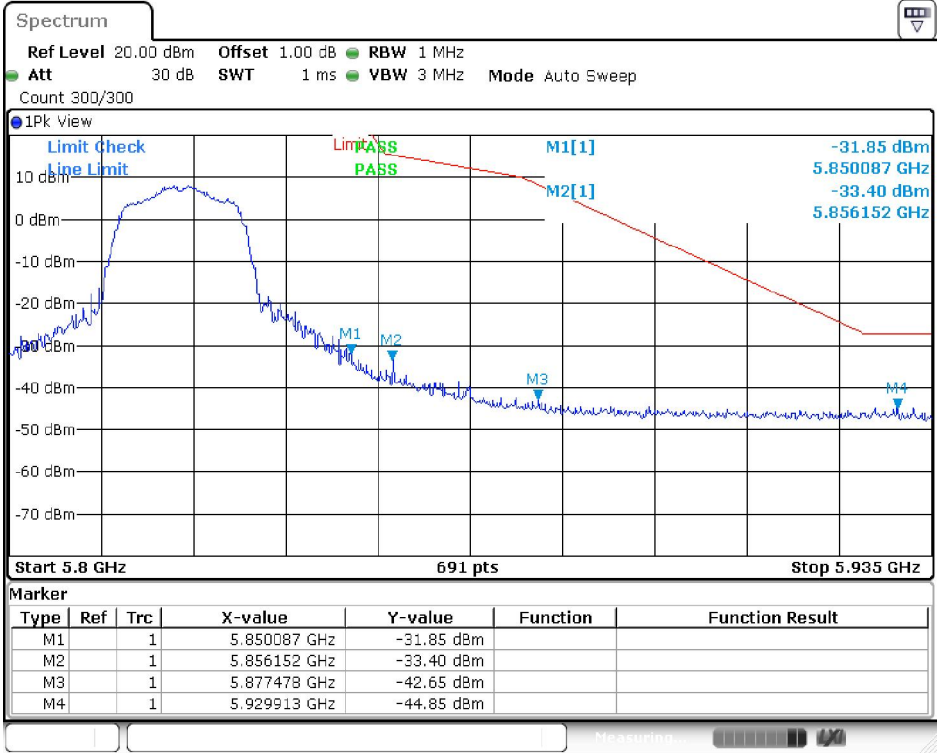
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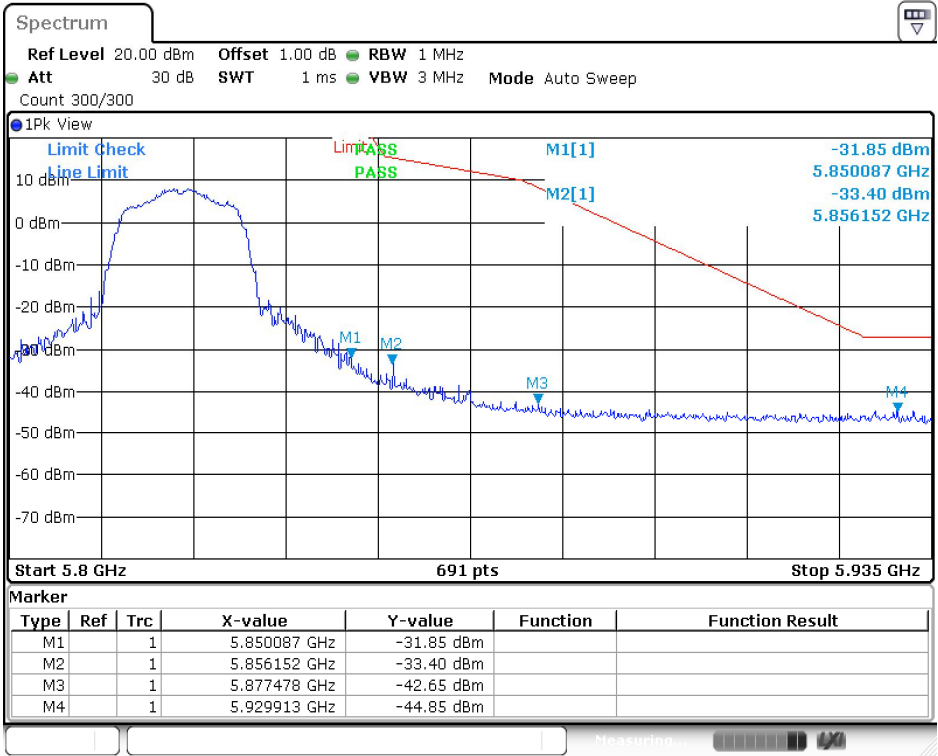
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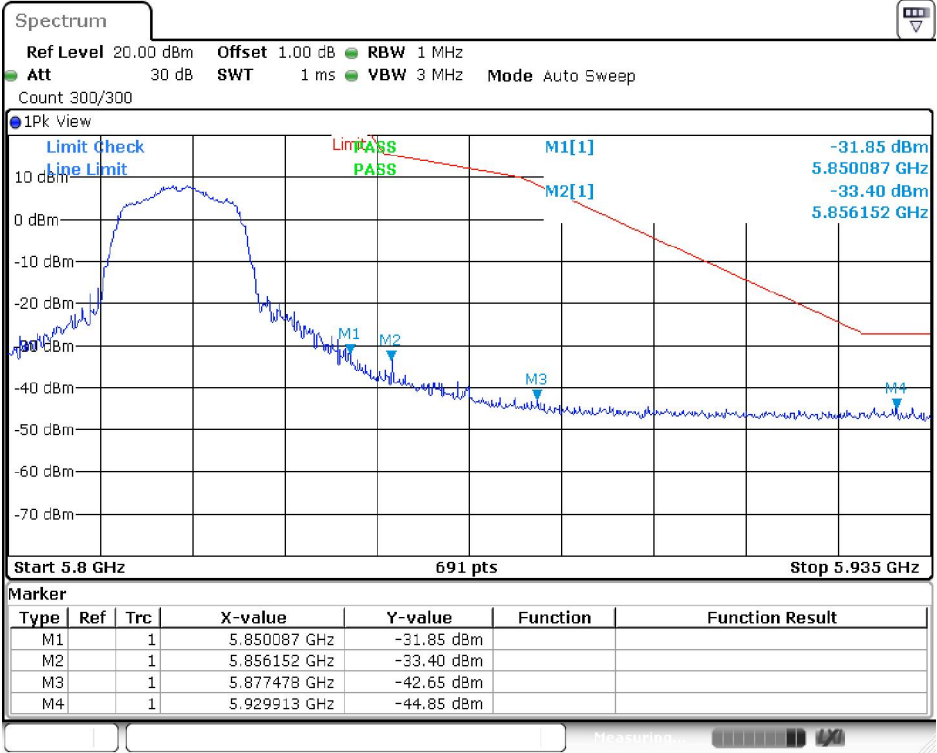
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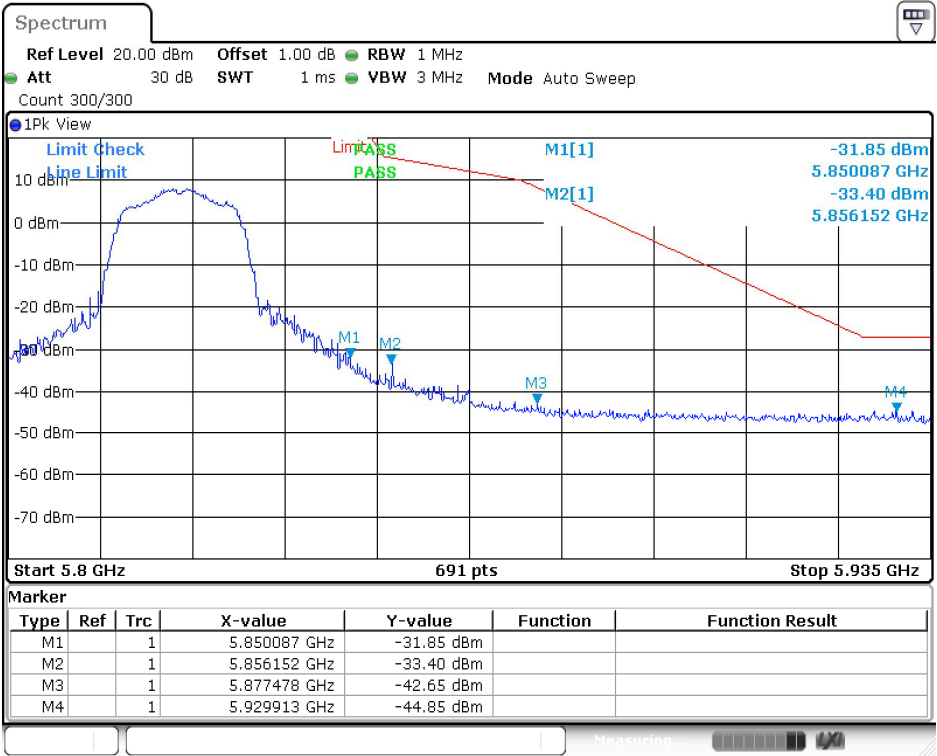
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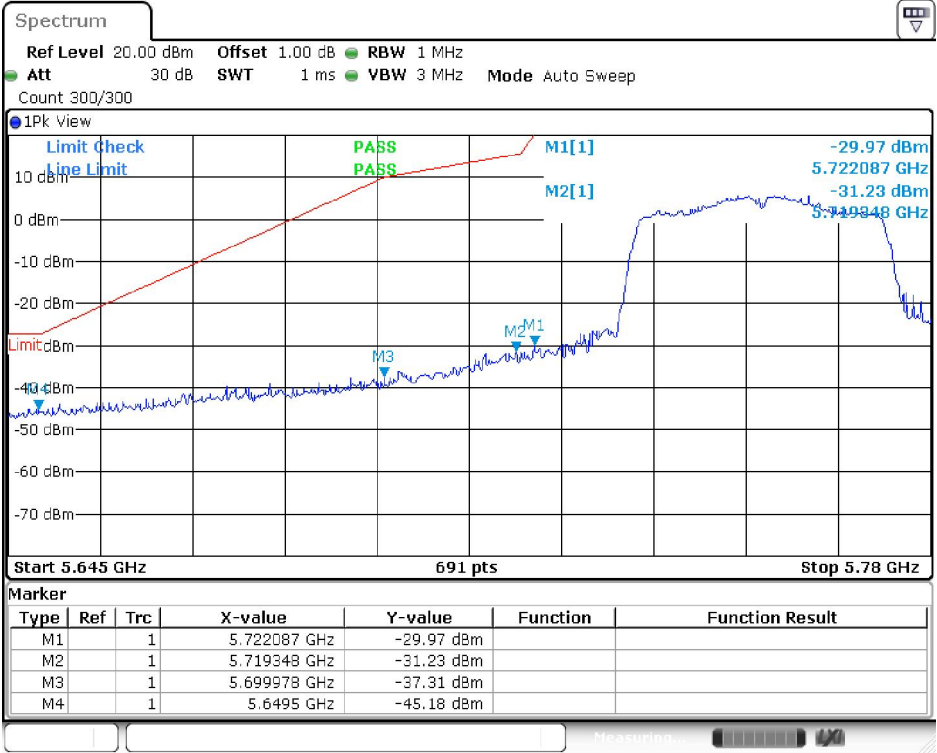
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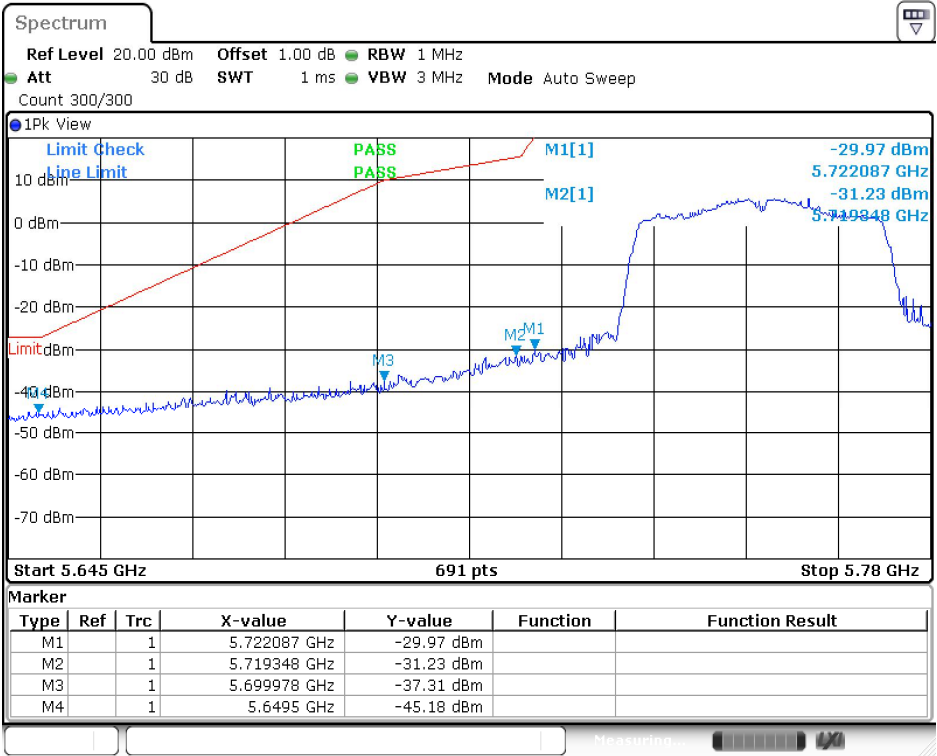
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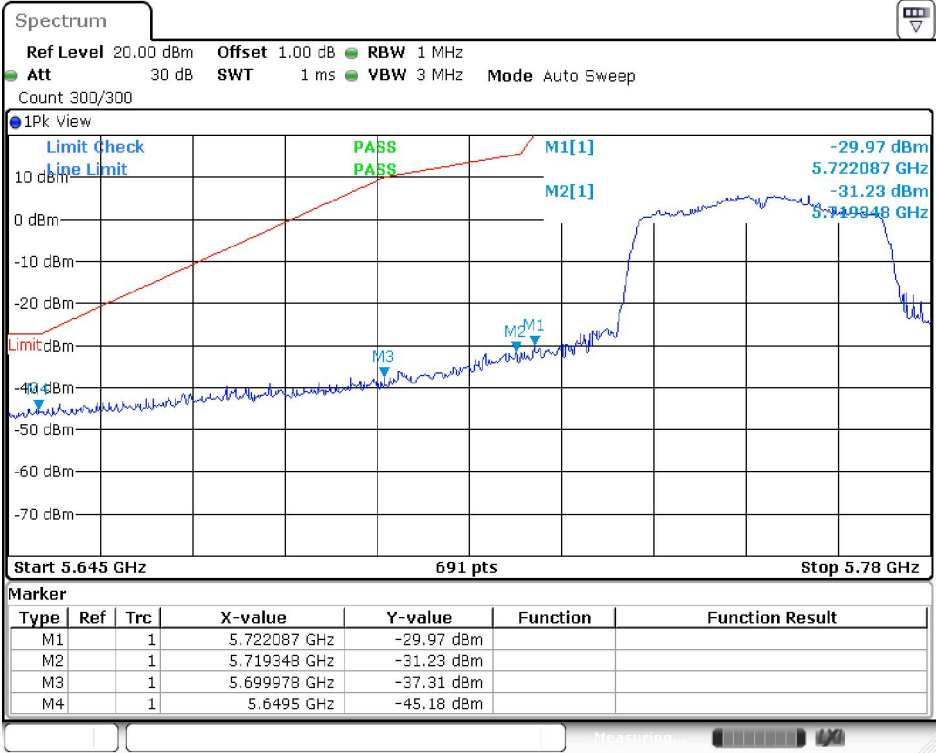
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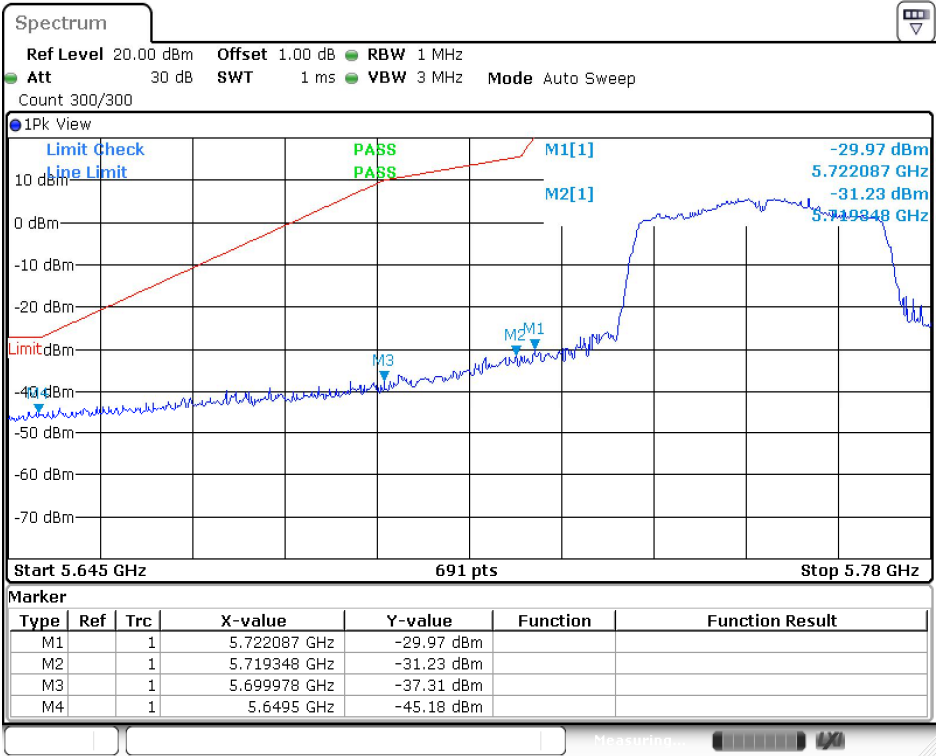
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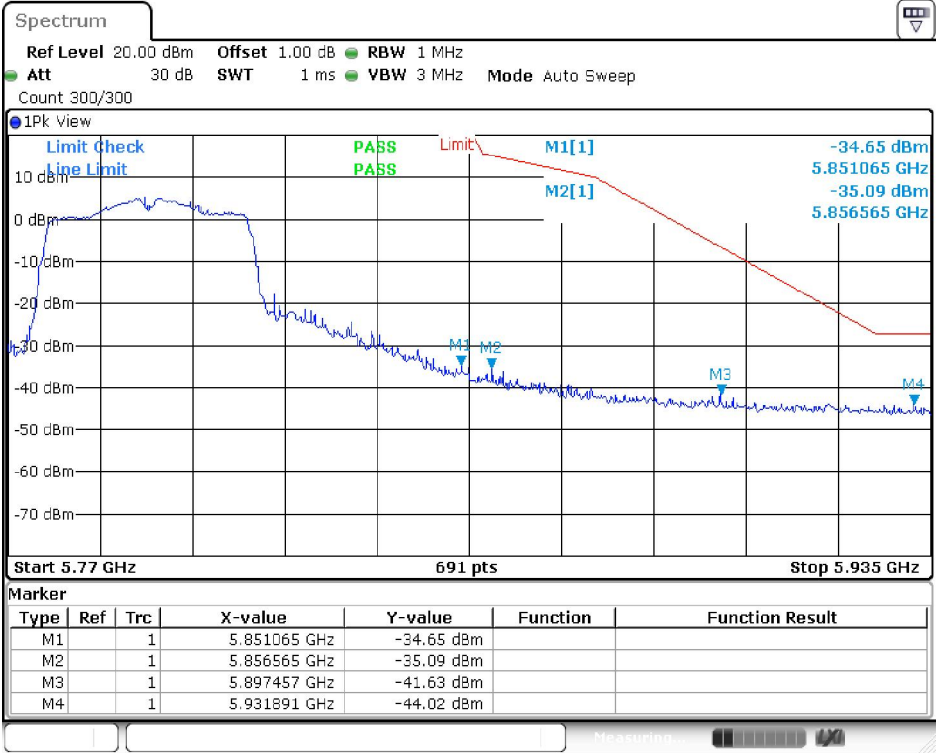
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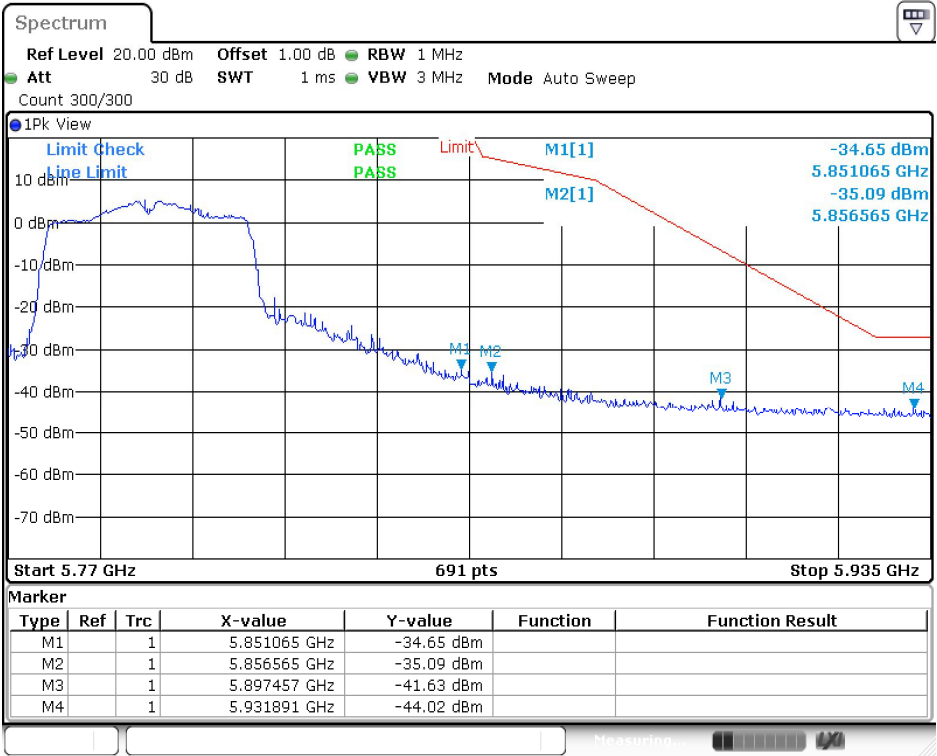
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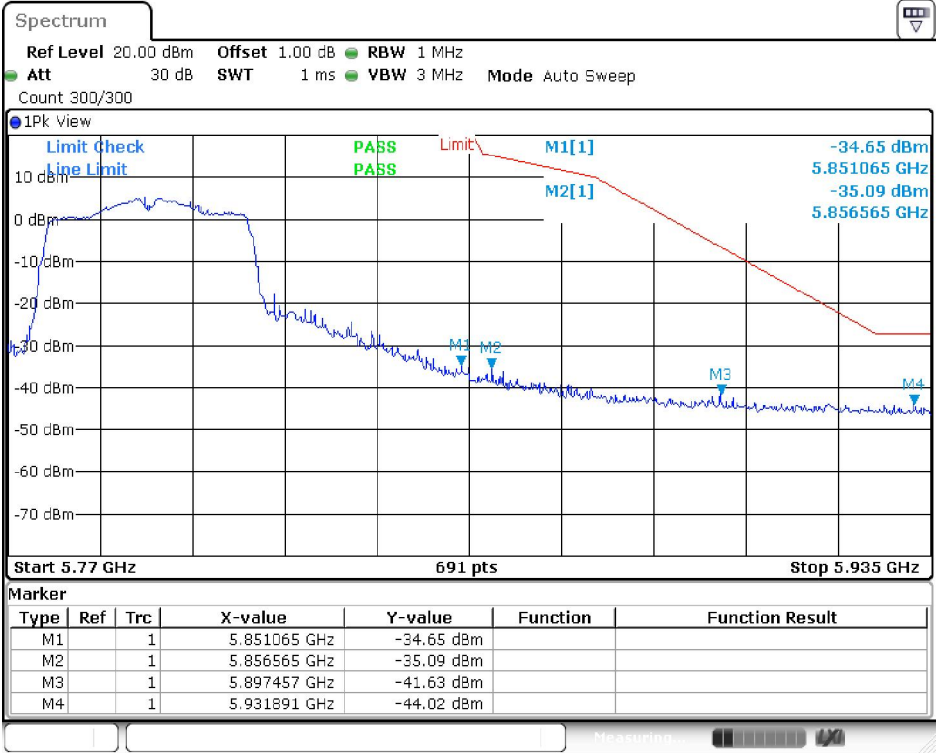
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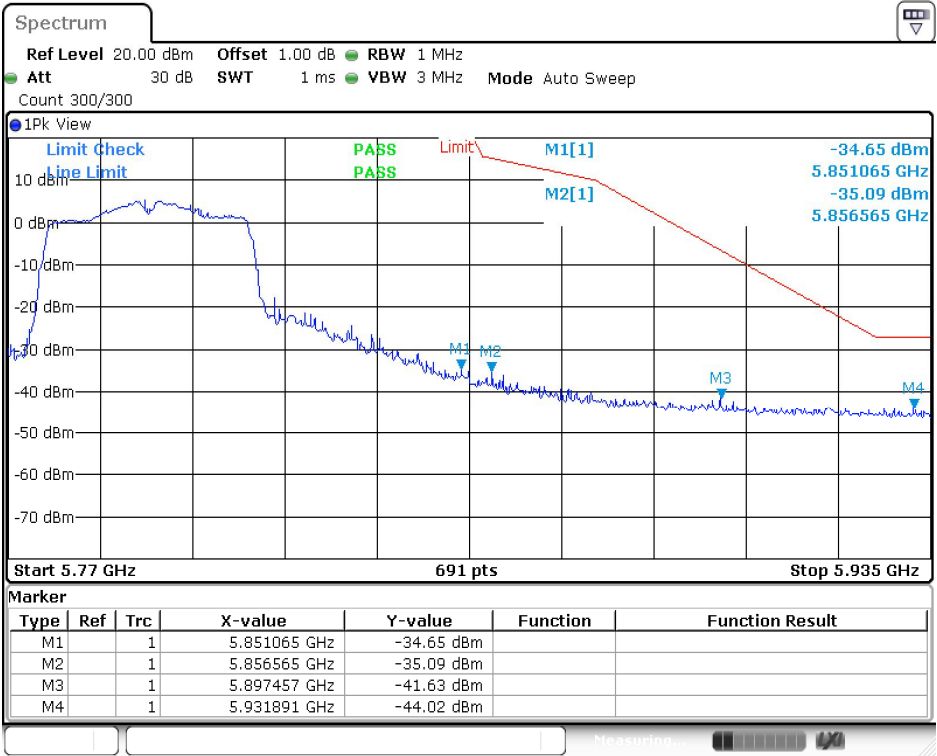
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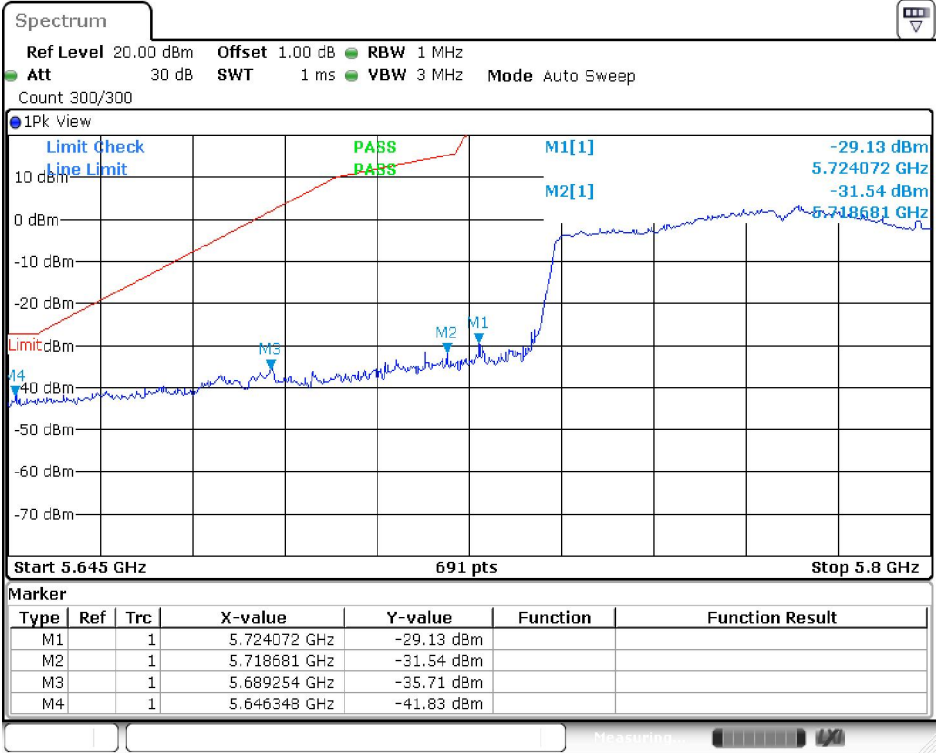
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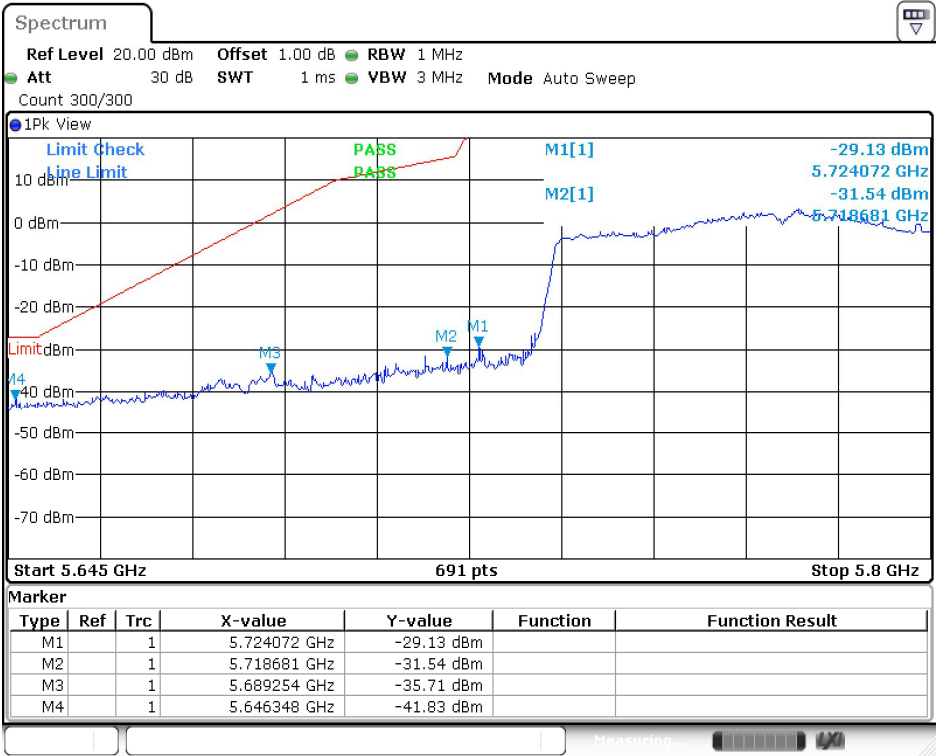
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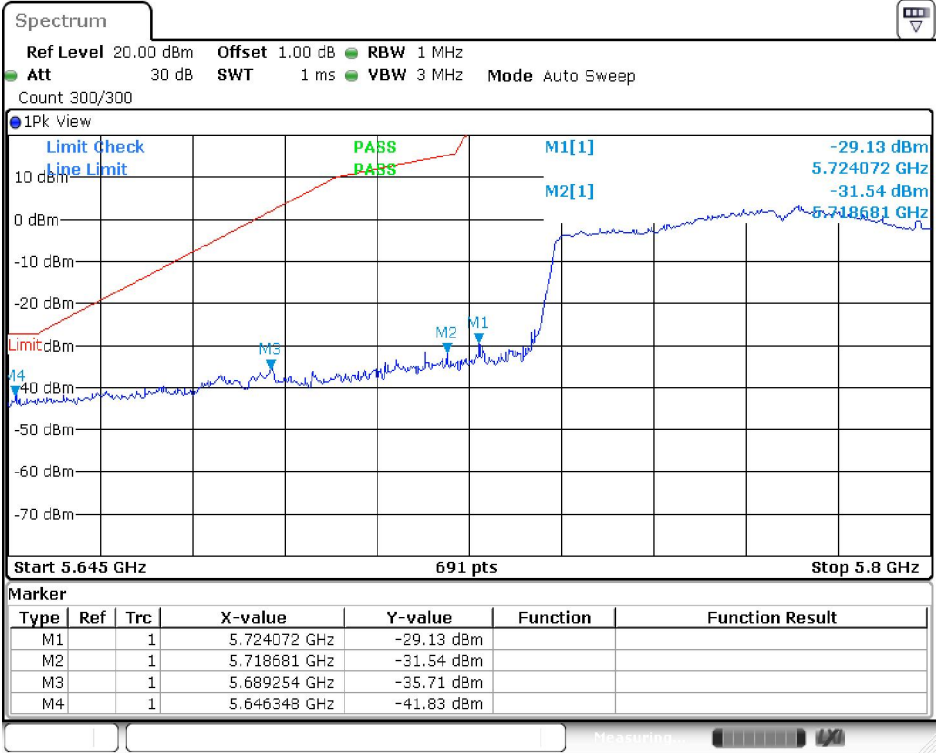
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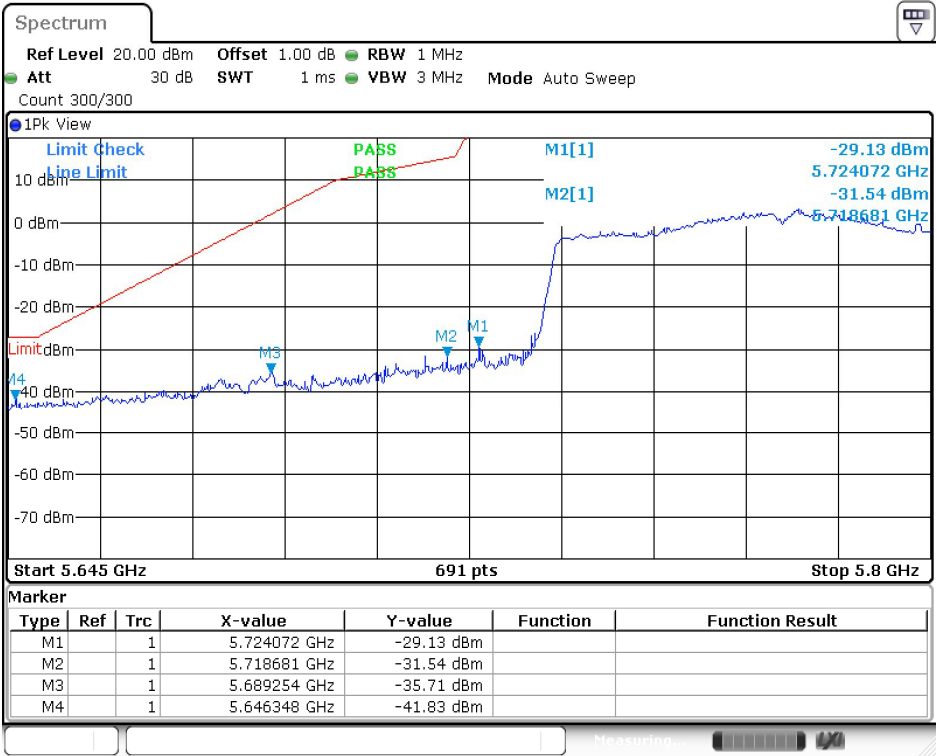
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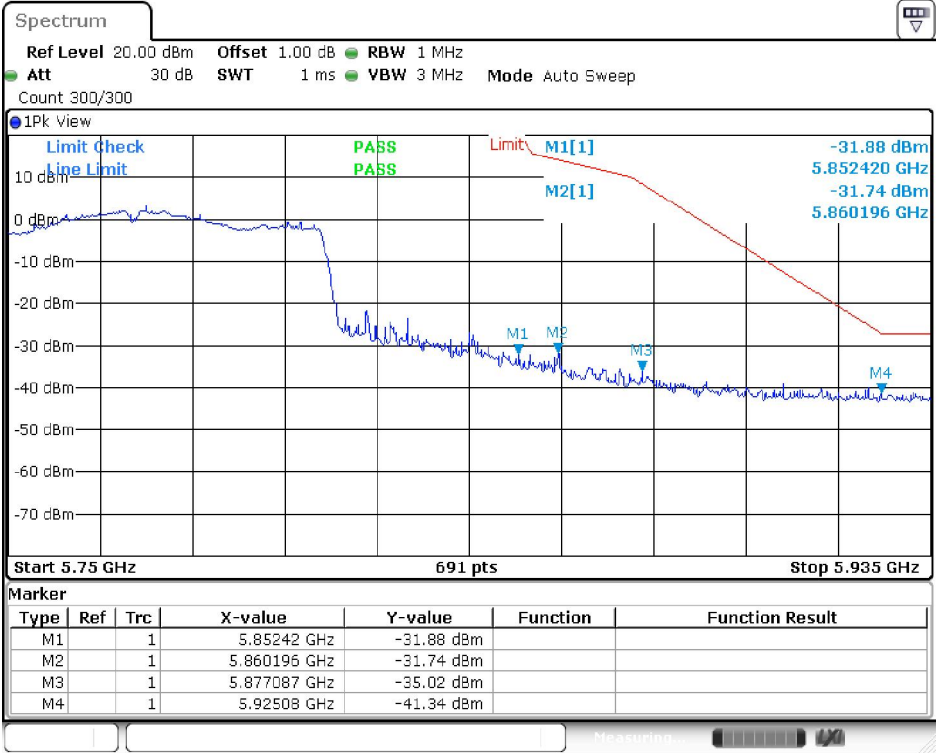
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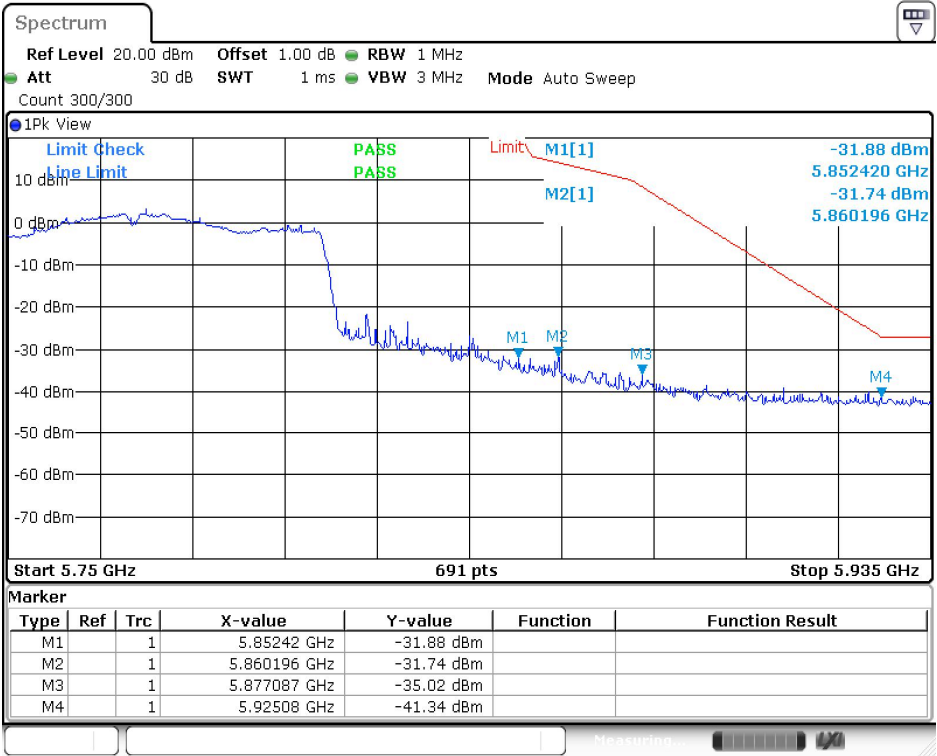
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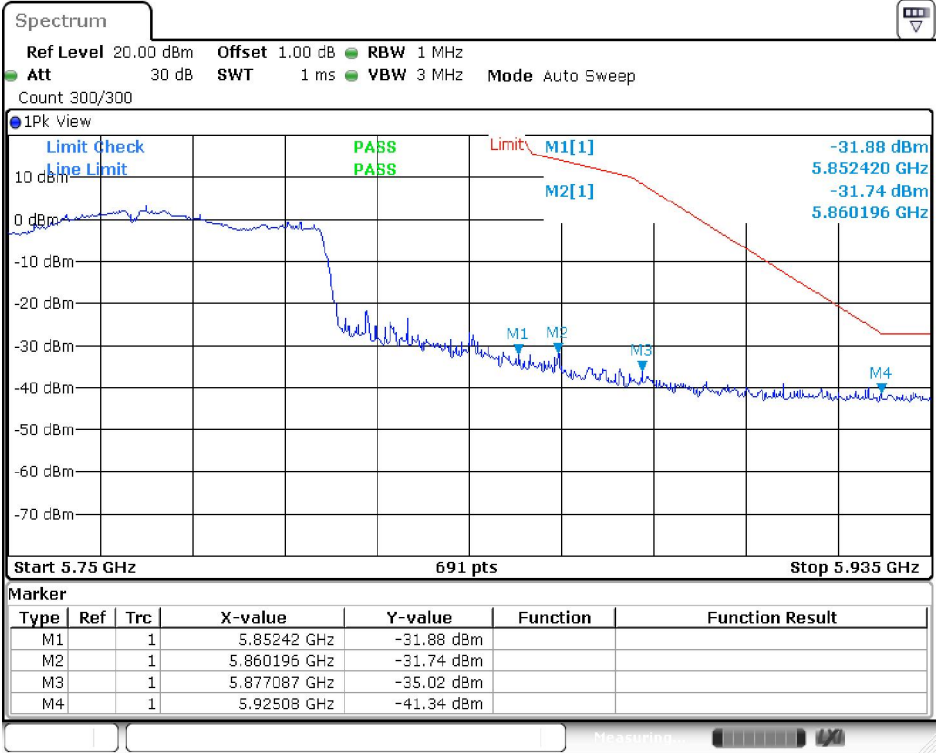
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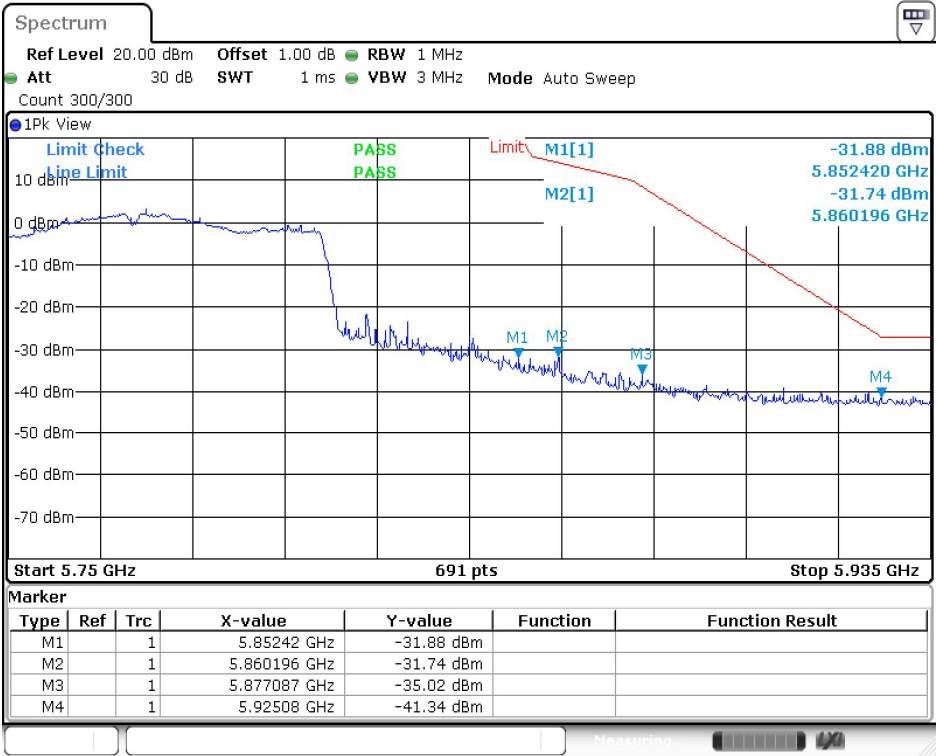
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11AC80SISO_Ant1_High_5775



Date: 17.OCT.2023 15:03:42

11AC80SISO_Ant1_High_5775



Date: 17.OCT.2023 15:03:42

Transmitting spurious emission test result as below (Radiated Mode):

Test Method

Radiated Mode:

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned
5. Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious

RBW = 100 KHz to 120KHz, VBW ≥ RBW for peak measurement, Sweep = auto,

Detector function = peak, Trace = max hold. For Peak unwanted emissions

For Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious

RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for Average Unwanted Emissions Measurements above 1000 MHz

a) Follow the requirements in II.G.3. "General Requirements for Unwanted Emissions Measurements."

b) Average emission levels shall be measured using one of the following two methods.

c) Method AD (Average Detection): Primary method

(i) RBW = 1 MHz.

(ii) VBW ≥ 3 MHz.

(iii) Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$.

Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak. As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

(v) Sweep time = auto.

(vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

(vii) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured

had the test been performed at 100% duty cycle. The correction factor is computed as follows:

If power averaging (rms) mode was used in II.G.6.c)(iv), the correction factor is $10 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels. If linear voltage averaging mode was used in II.G.6.c)(iv), the correction factor is $20 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels. If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Limit

According to part 15.407b (1) (2) (3) (4)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

According to part 15.407b (8), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

According to part 15.407b (9), The provisions of §15.205 apply to intentional radiators operating under this section.

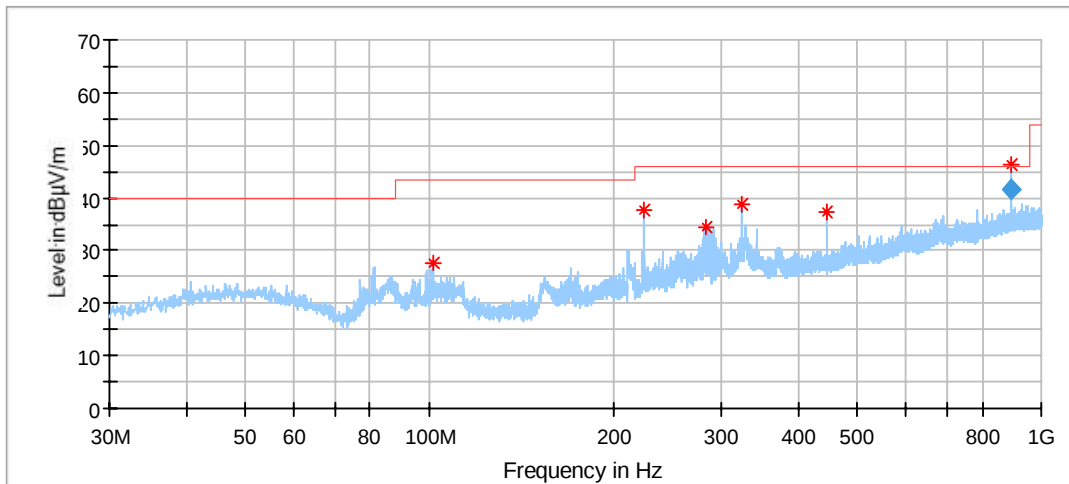
Note: According to C63.10, the Conversion Factors between $E[\text{dB}\mu\text{V/m}]$ and $\text{EIRP}[\text{dBm}]$ as below:

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2, \text{ for } d = 3 \text{ meters.}$$

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (802.11a modulation) test result is listed in the report.

Transmitting spurious emission test result as below:
Test data 30MHz – 1000MHz:

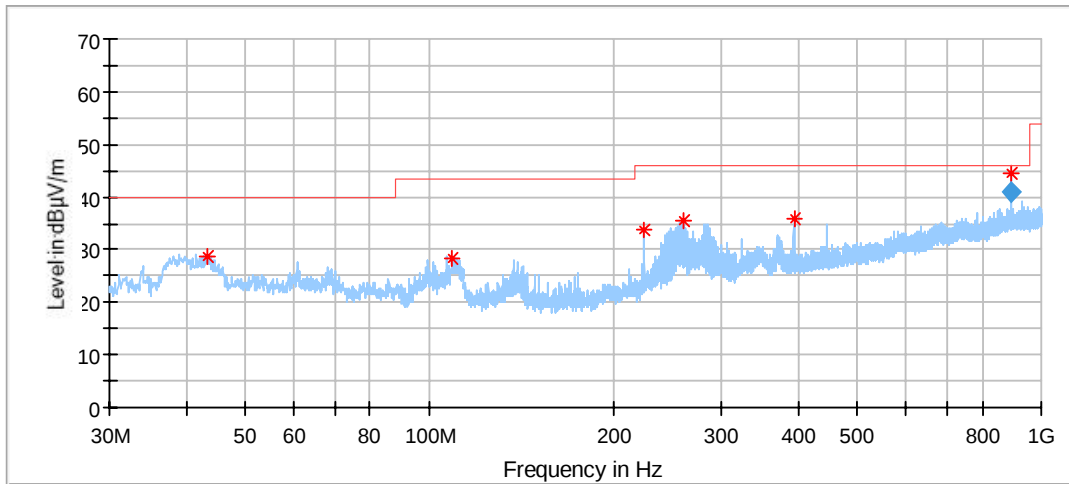


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
101.672222	27.47	43.50	16.03	100.0	H	179.0	16.09
224.970000	37.84	46.00	8.16	100.0	H	260.0	16.45
283.385556	34.48	46.00	11.52	100.0	H	179.0	18.13
324.987778	38.72	46.00	7.28	100.0	H	260.0	19.36
445.052222	37.46	46.00	8.54	100.0	H	66.0	22.06
890.120556	46.18	46.00	-0.18	200.0	H	8.0	29.26

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
890.120556	41.80	46.00	4.20	200.0	H	8.0	29.26



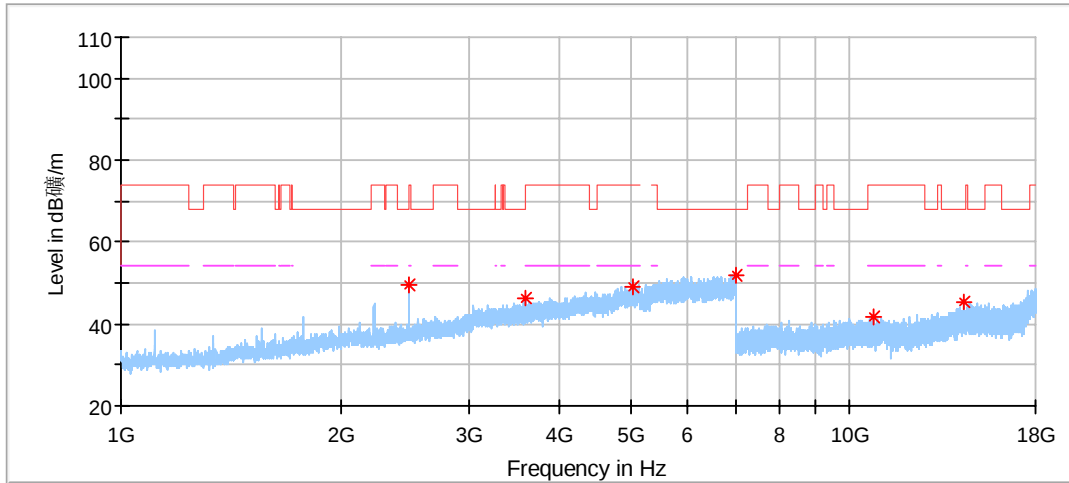
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.364444	28.89	40.00	11.11	100.0	V	0.0	17.86
109.055000	28.52	43.50	14.98	100.0	V	261.0	15.63
224.970000	33.87	46.00	12.13	100.0	V	0.0	16.45
260.536667	35.51	46.00	10.49	200.0	V	164.0	18.04
393.965556	35.79	46.00	10.21	100.0	V	5.0	21.19
890.120556	44.34	46.00	1.66	200.0	V	0.0	29.26

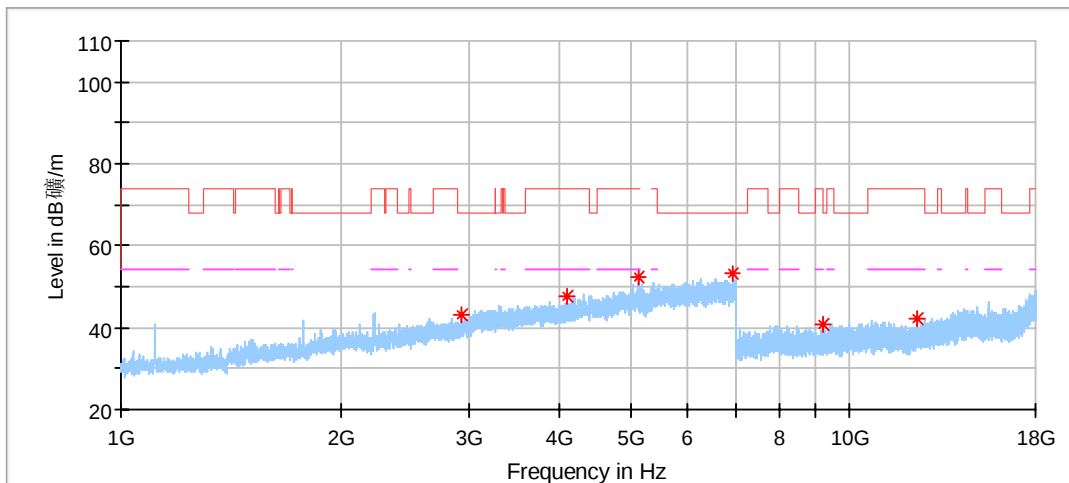
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
890.120556	41.10	46.00	4.90	200.0	V	0.0	29.26

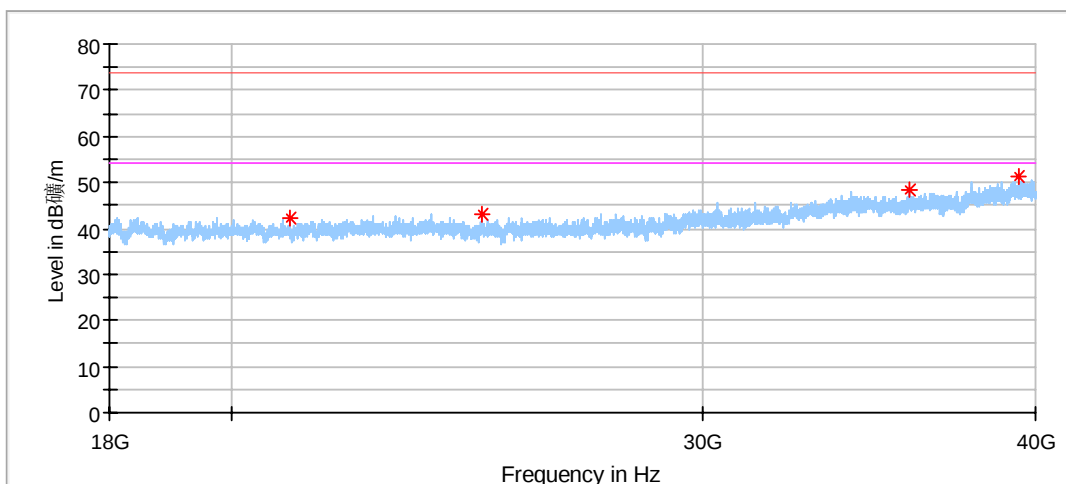
Test data above 1GHz:
5180MHz:



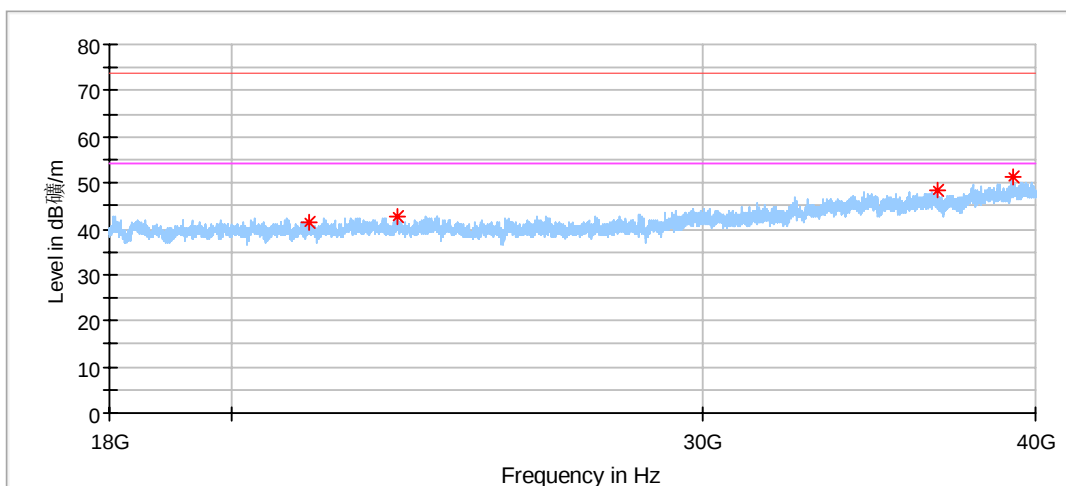
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.500000	49.62	68.20	18.58	150.0	H	24.0	-5.18
3593.500000	46.18	68.20	22.02	150.0	H	178.0	0.42
5046.500000	49.29	74.00	24.71	150.0	H	225.0	5.79
6979.000000	51.92	68.20	16.28	150.0	H	164.0	9.05
10784.500000	41.66	74.00	32.34	150.0	H	299.0	10.09
14329.500000	45.17	68.20	23.03	150.0	H	319.0	14.48



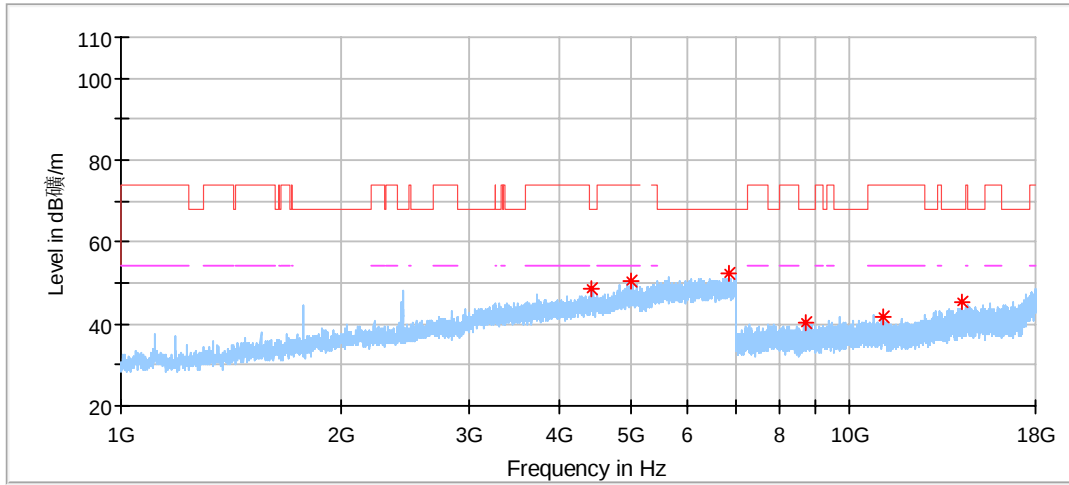
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2928.500000	43.09	68.20	25.11	150.0	V	278.0	-3.20
4085.000000	47.64	74.00	26.36	150.0	V	189.0	1.77
5131.500000	52.43	74.00	21.57	150.0	V	102.0	5.68
6925.000000	53.11	68.20	15.09	150.0	V	195.0	8.80
9205.000000	40.79	68.20	27.41	150.0	V	216.0	8.80
12341.000000	42.20	74.00	31.80	150.0	V	27.0	11.02



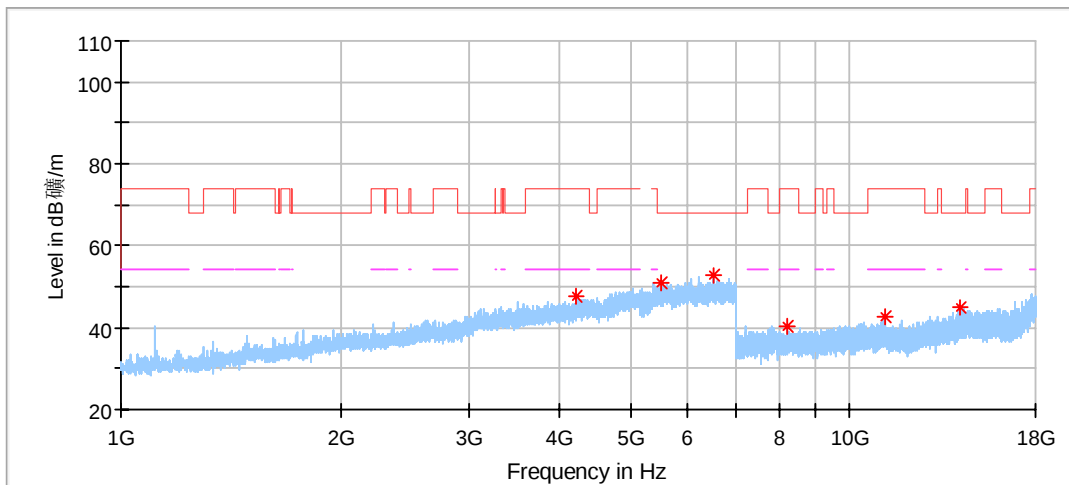
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21027.200000	42.11	74.00	31.89	150.0	H	174.0	0.26
24828.800000	42.98	74.00	31.02	150.0	H	0.0	1.65
35892.600000	48.38	74.00	25.62	150.0	H	161.0	5.05
39434.600000	51.46	74.00	22.54	150.0	H	30.0	7.94



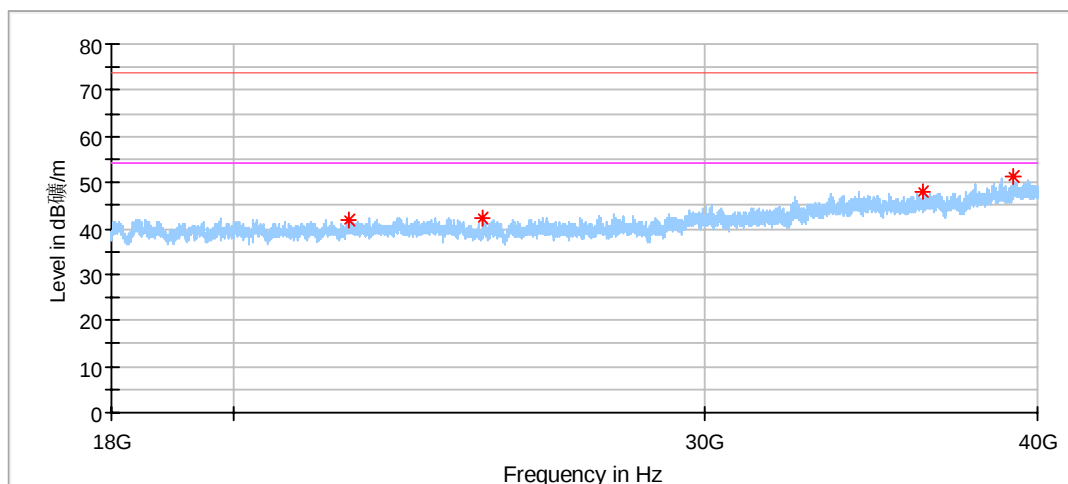
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21394.600000	41.39	74.00	32.61	150.0	V	50.0	0.35
23086.400000	42.52	74.00	31.48	150.0	V	217.0	1.89
36733.000000	48.37	74.00	25.63	150.0	V	32.0	5.62
39221.200000	51.43	74.00	22.57	150.0	V	123.0	7.30

5200MHz:

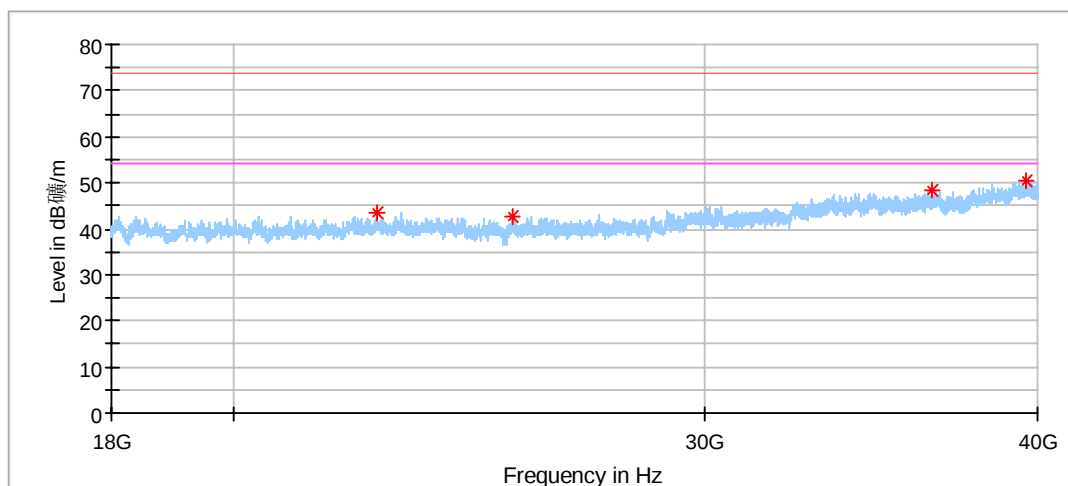
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4429.000000	48.69	68.20	19.51	150.0	H	223.0	3.31
4999.500000	50.23	74.00	23.77	150.0	H	356.0	5.67
6839.500000	52.26	68.20	15.94	150.0	H	40.0	8.53
8734.500000	40.27	68.20	27.93	150.0	H	299.0	8.72
11123.500000	41.86	74.00	32.14	150.0	H	299.0	10.73
14279.500000	45.16	68.20	23.04	150.0	H	319.0	14.31



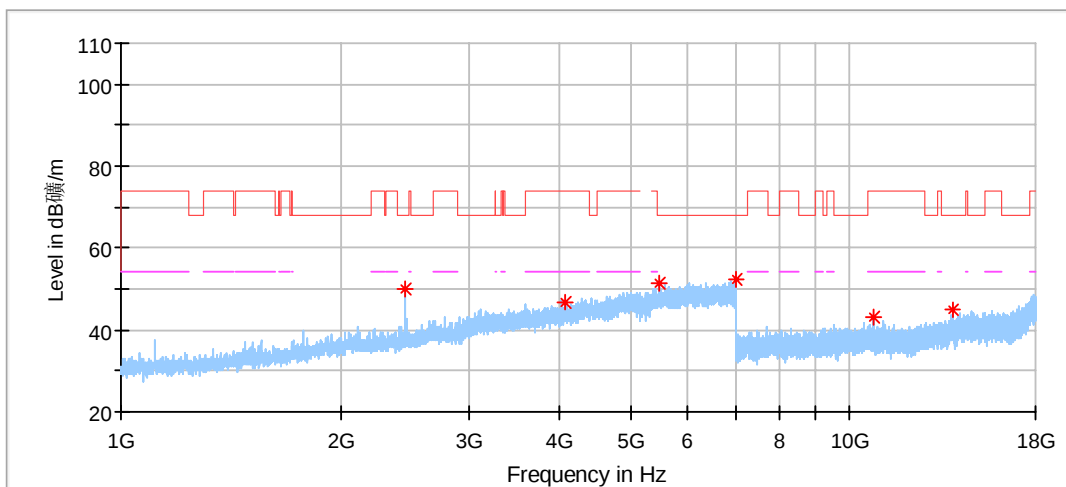
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4219.000000	47.92	74.00	26.08	150.0	V	277.0	2.46
5519.000000	51.14	68.20	17.06	150.0	V	210.0	7.06
6496.000000	52.79	68.20	15.41	150.0	V	74.0	8.67
8200.500000	40.24	74.00	33.76	150.0	V	296.0	8.16
11174.000000	42.62	74.00	31.38	150.0	V	335.0	10.61
14215.500000	44.88	68.20	23.32	150.0	V	154.0	14.19



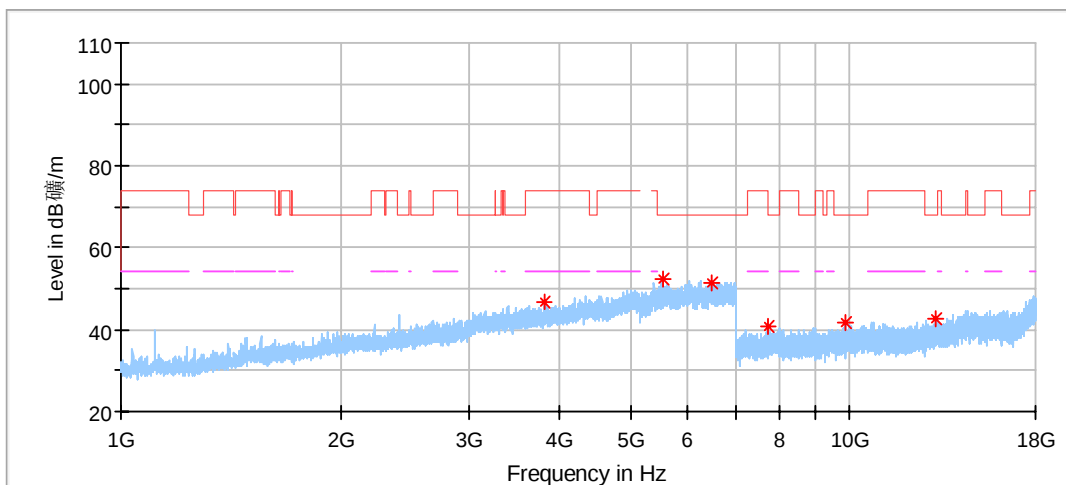
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
22096.400000	41.84	74.00	32.16	150.0	H	117.0	1.13
24791.400000	42.37	74.00	31.63	150.0	H	358.0	1.55
36224.800000	48.13	74.00	25.87	150.0	H	222.0	5.38
39168.400000	51.12	74.00	22.88	150.0	H	72.0	7.11



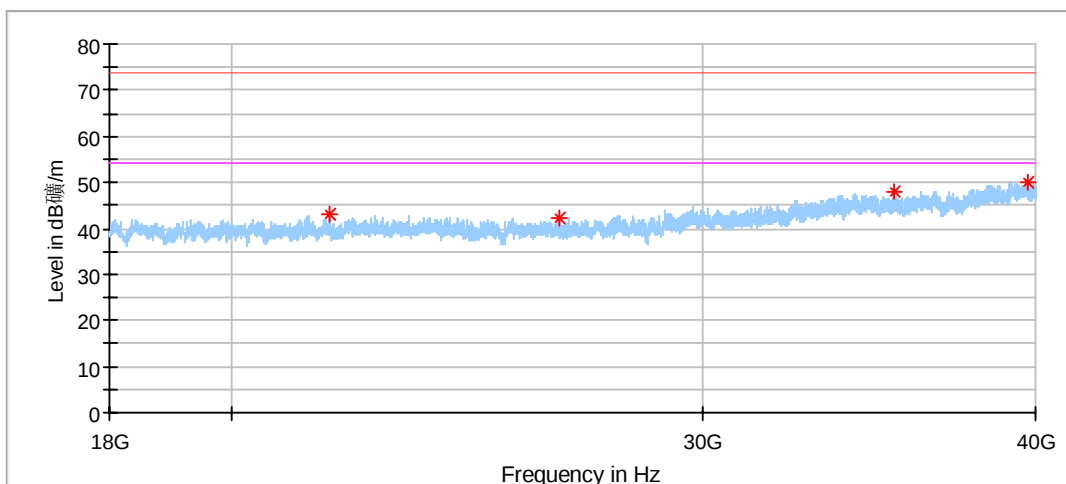
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
22611.200000	43.32	74.00	30.69	150.0	V	138.0	1.48
25436.000000	42.63	74.00	31.37	150.0	V	185.0	2.26
36510.800000	48.36	74.00	25.64	150.0	V	176.0	5.68
39619.400000	50.34	74.00	23.66	150.0	V	354.0	8.33

5240MHz:

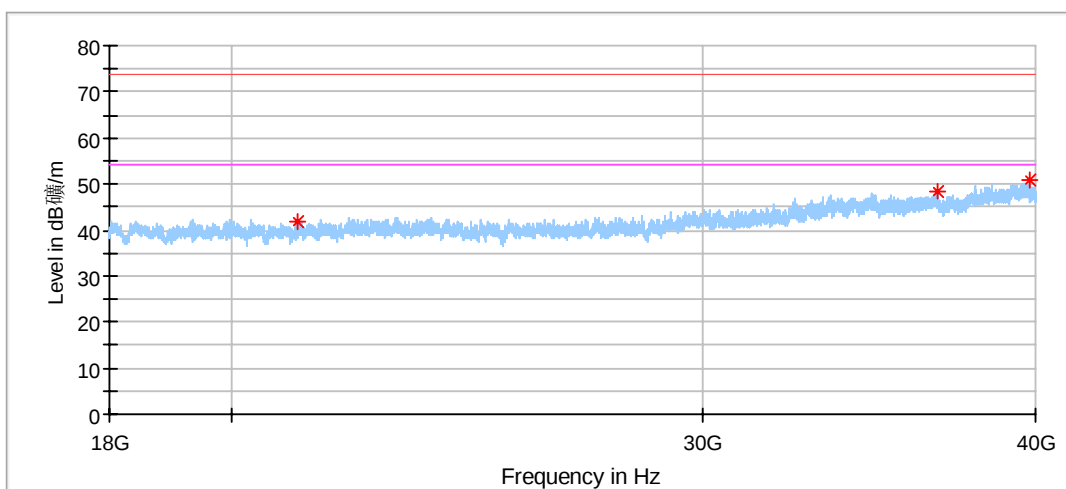
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2458.500000	50.01	68.20	18.19	150.0	H	174.0	-5.29
4071.000000	46.75	74.00	27.25	150.0	H	101.0	1.68
5477.500000	51.20	68.20	17.00	150.0	H	27.0	6.89
6979.000000	52.13	68.20	16.07	150.0	H	147.0	9.05
10771.500000	43.04	74.00	30.96	150.0	H	299.0	10.09
13853.000000	44.74	68.20	23.46	150.0	H	177.0	13.77



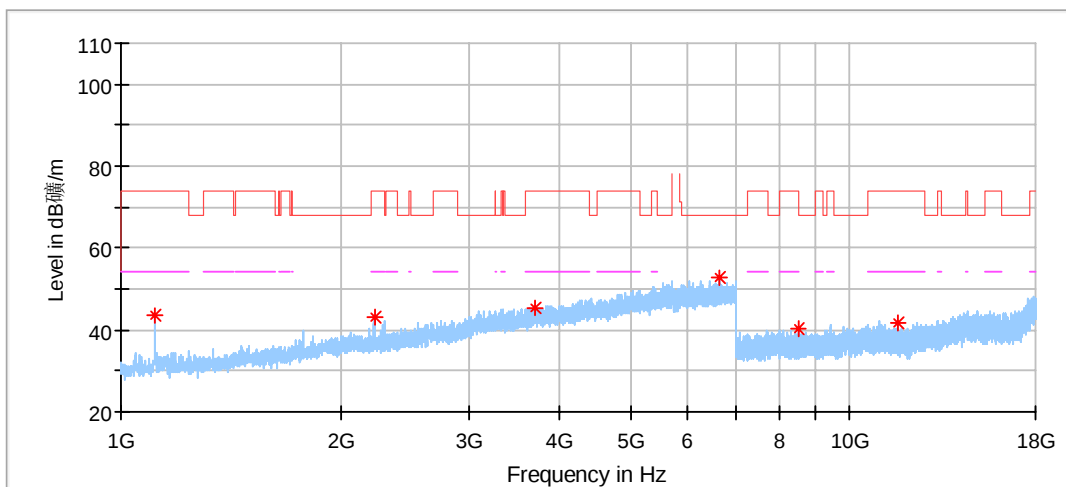
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3802.000000	46.68	74.00	27.32	150.0	V	0.0	1.21
5553.000000	52.09	68.20	16.11	150.0	V	3.0	7.20
6465.500000	51.47	68.20	16.73	150.0	V	268.0	8.44
7757.000000	40.54	68.20	27.66	150.0	V	47.0	7.69
9871.500000	41.63	68.20	26.57	150.0	V	111.0	9.67
13143.000000	42.66	68.20	25.54	150.0	V	176.0	12.44



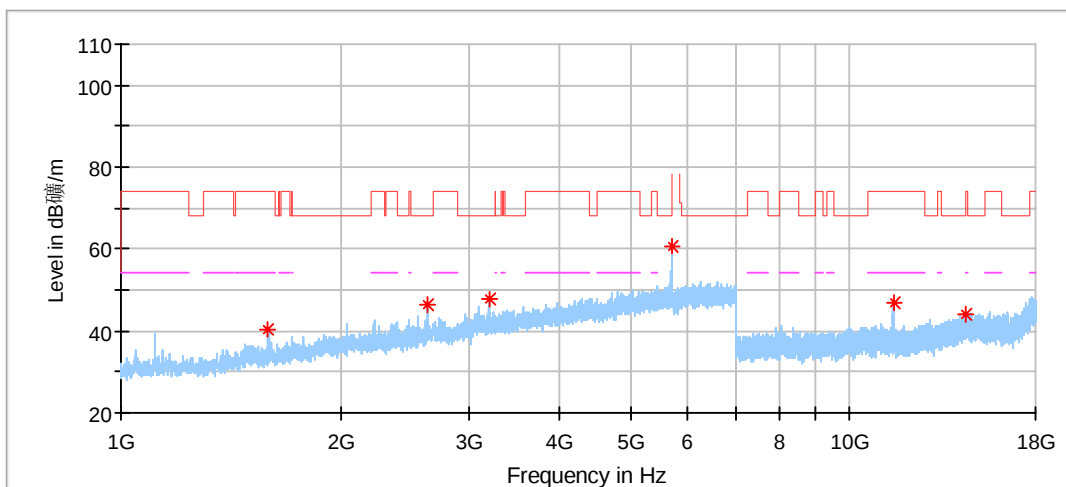
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21770.800000	42.94	74.00	31.06	150.0	H	263.0	0.65
26540.400000	42.09	74.00	31.91	150.0	H	161.0	2.17
35430.600000	47.99	74.00	26.01	150.0	H	31.0	4.93
39751.400000	50.12	74.00	23.88	150.0	H	161.0	8.55



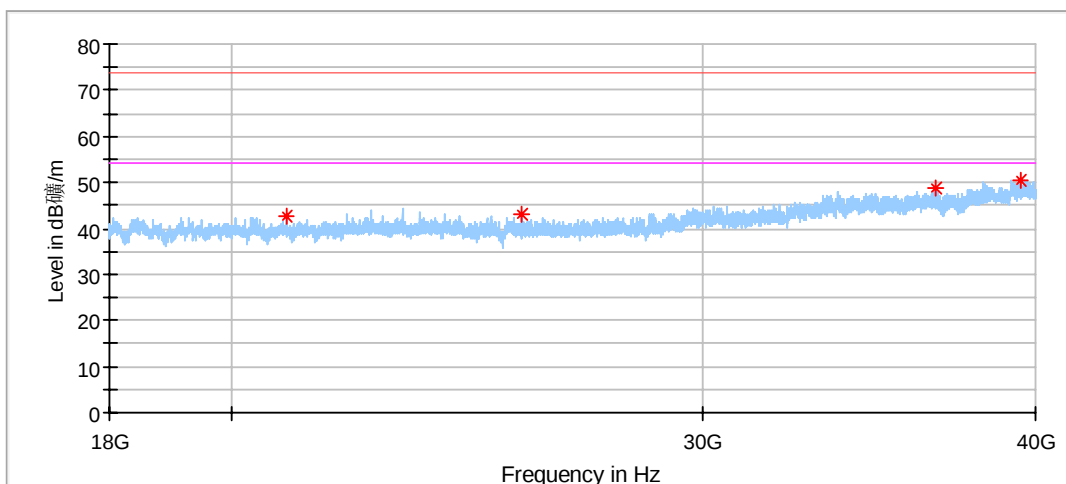
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21181.200000	41.87	74.00	32.13	150.0	V	0.0	0.34
36748.400000	48.37	74.00	25.63	150.0	V	0.0	5.62
39802.000000	51.03	74.00	22.97	150.0	V	317.0	8.65

5745MHz:

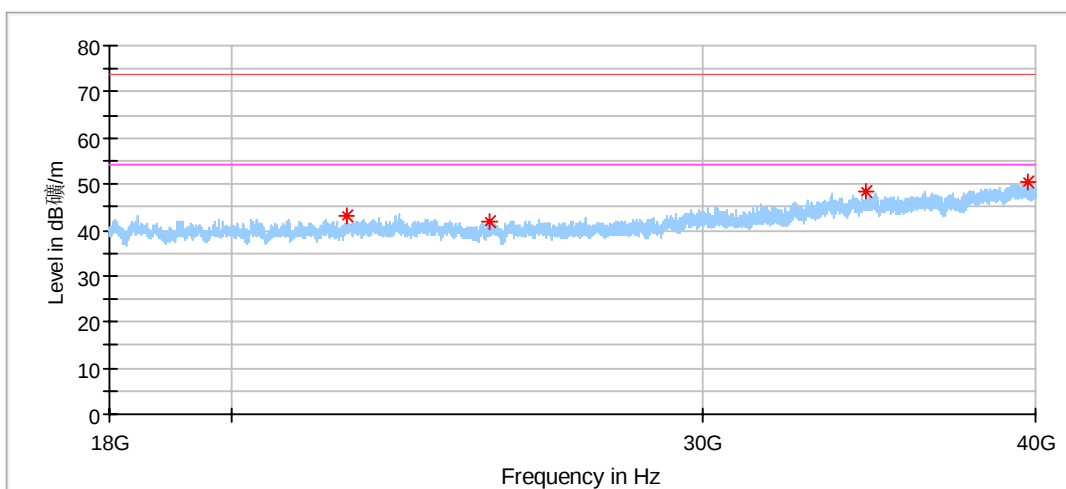
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1112.500000	43.60	74.00	30.40	150.0	H	51.0	-12.74
2225.500000	43.08	74.00	30.92	150.0	H	17.0	-6.51
3692.000000	45.54	74.00	28.46	150.0	H	24.0	0.75
6643.000000	52.81	68.20	15.39	150.0	H	111.0	8.59
8510.000000	40.18	68.20	28.02	150.0	H	183.0	8.29
11673.500000	41.80	74.00	32.20	150.0	H	330.0	10.51



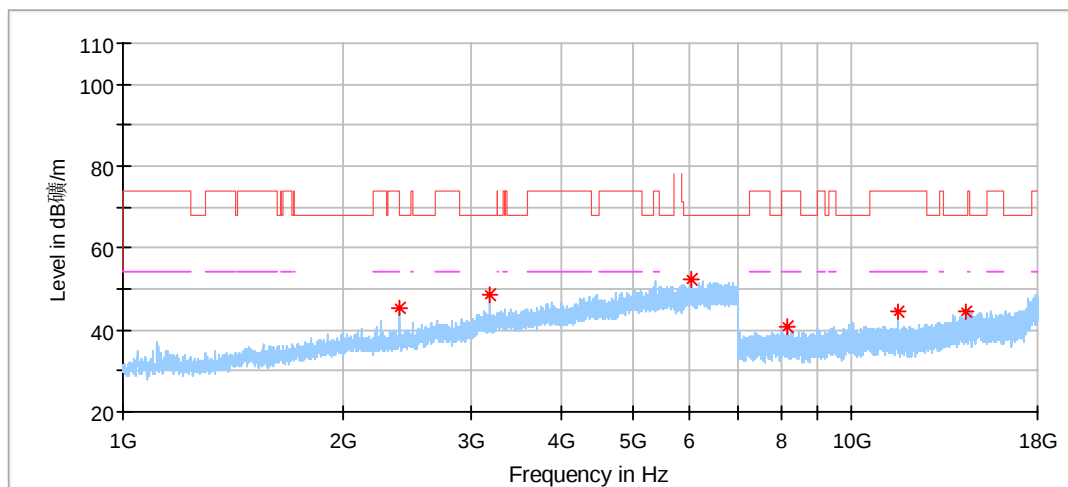
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1594.500000	40.46	74.00	33.54	150.0	V	278.0	-9.96
2631.500000	46.40	68.20	21.80	150.0	V	252.0	-4.04
3199.500000	47.56	68.20	20.64	150.0	V	356.0	-1.03
5711.000000	60.77	74.20	13.43	150.0	V	151.0	7.19
11496.500000	46.96	74.00	27.04	150.0	V	189.0	10.48
14440.000000	43.92	68.20	24.28	150.0	V	169.0	14.82



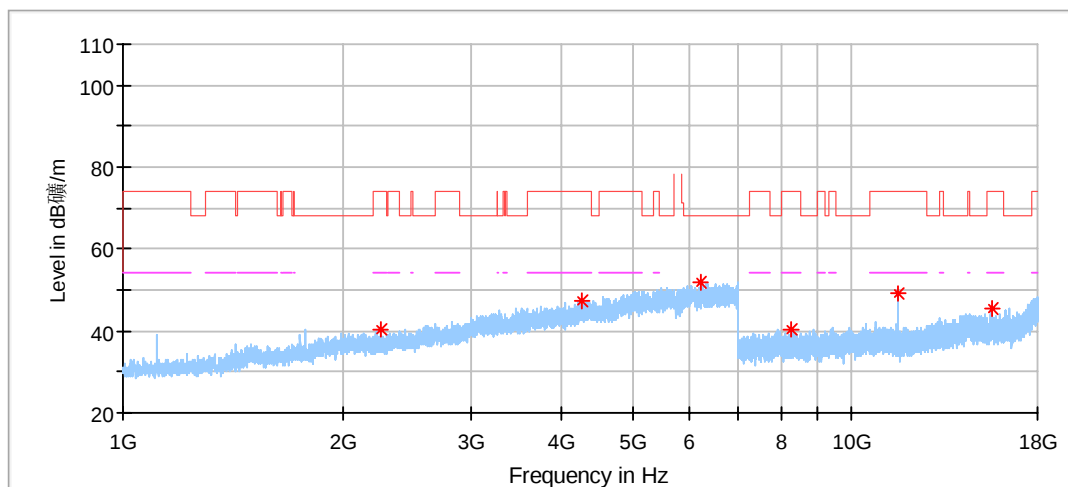
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20970.000000	42.84	74.00	31.16	150.0	H	149.0	0.19
25673.600000	43.08	74.00	30.92	150.0	H	298.0	2.45
36717.600000	48.75	74.00	25.25	150.0	H	45.0	5.62
39500.600000	50.65	74.00	23.35	150.0	H	162.0	8.13



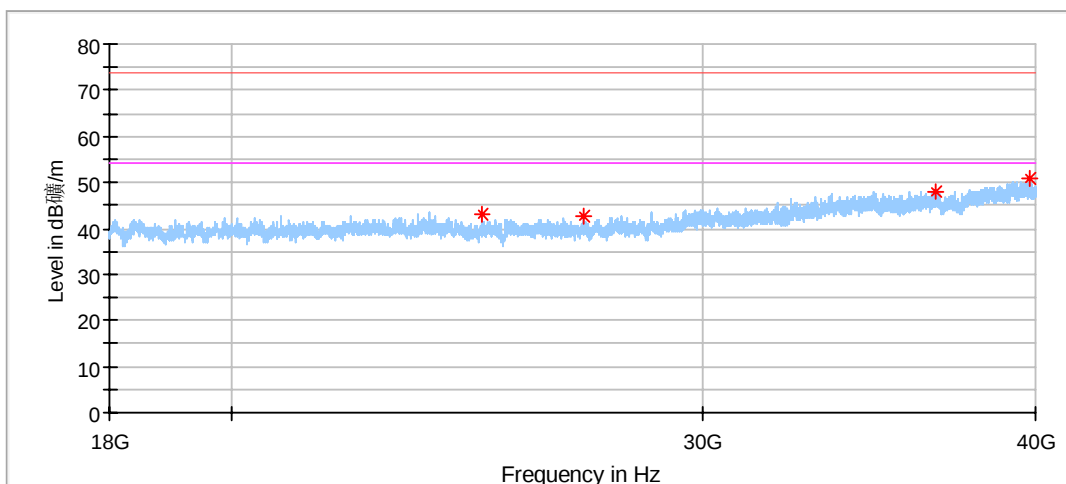
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
22098.600000	42.90	74.00	31.10	150.0	V	13.0	1.14
24978.400000	41.90	74.00	32.10	150.0	V	114.0	2.03
34574.800000	48.41	74.00	25.59	150.0	V	104.0	5.06
39766.800000	50.55	74.00	23.45	150.0	V	21.0	8.58

5785MHz:

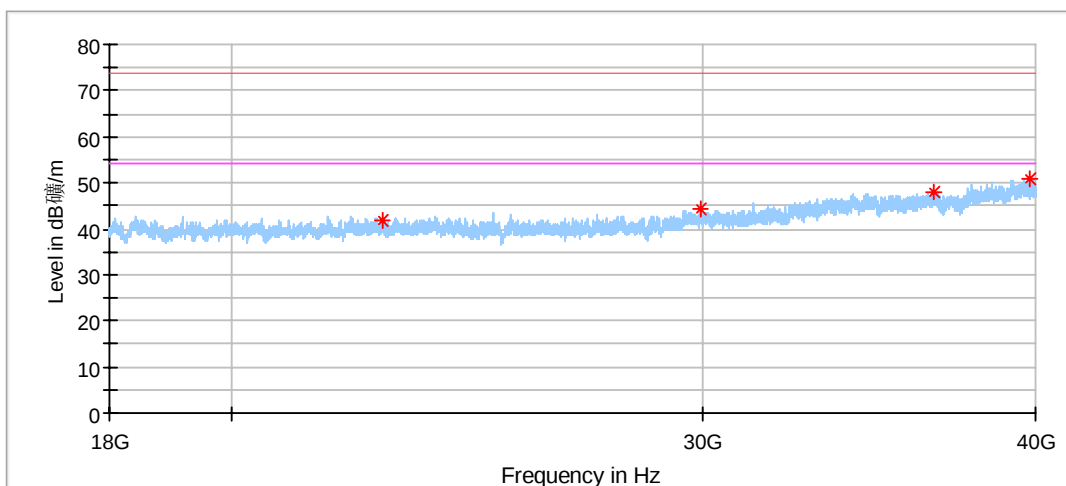
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2395.000000	45.39	68.20	22.81	150.0	H	75.0	-5.67
3191.500000	48.54	68.20	19.66	150.0	H	276.0	-1.07
6028.500000	52.09	68.20	16.11	150.0	H	142.0	8.04
8167.000000	40.66	74.00	33.34	150.0	H	287.0	8.08
11577.000000	44.24	74.00	29.76	150.0	H	266.0	10.42
14352.000000	44.26	68.20	23.94	150.0	H	98.0	14.56



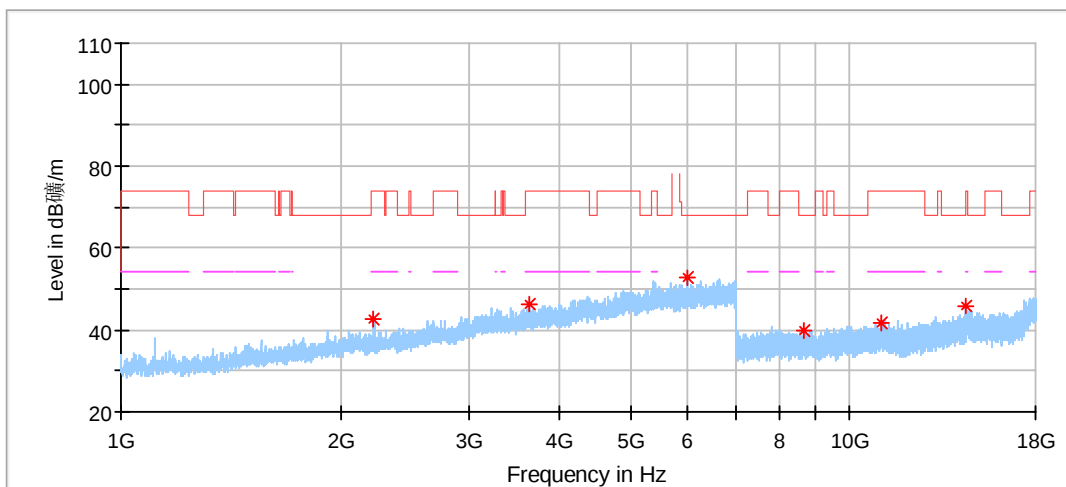
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2252.500000	40.18	74.00	33.82	150.0	V	314.0	-6.22
4270.000000	47.18	74.00	26.82	150.0	V	178.0	2.78
6210.000000	51.72	68.20	16.48	150.0	V	294.0	8.25
8269.000000	40.46	74.00	33.54	150.0	V	122.0	8.21
11578.000000	49.15	74.00	24.85	150.0	V	206.0	10.42
15563.000000	45.39	74.00	28.61	150.0	V	143.0	16.05



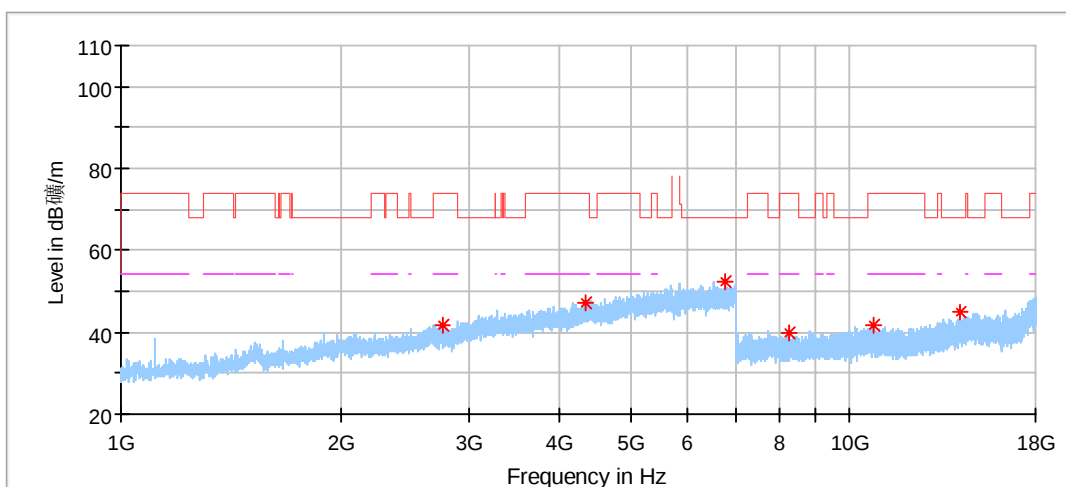
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
24822.200000	43.00	74.00	31.00	150.0	H	69.0	1.63
27094.800000	42.81	74.00	31.19	150.0	H	171.0	2.36
36673.600000	48.06	74.00	25.94	150.0	H	142.0	5.64
39784.400000	50.84	74.00	23.17	150.0	H	127.0	8.62



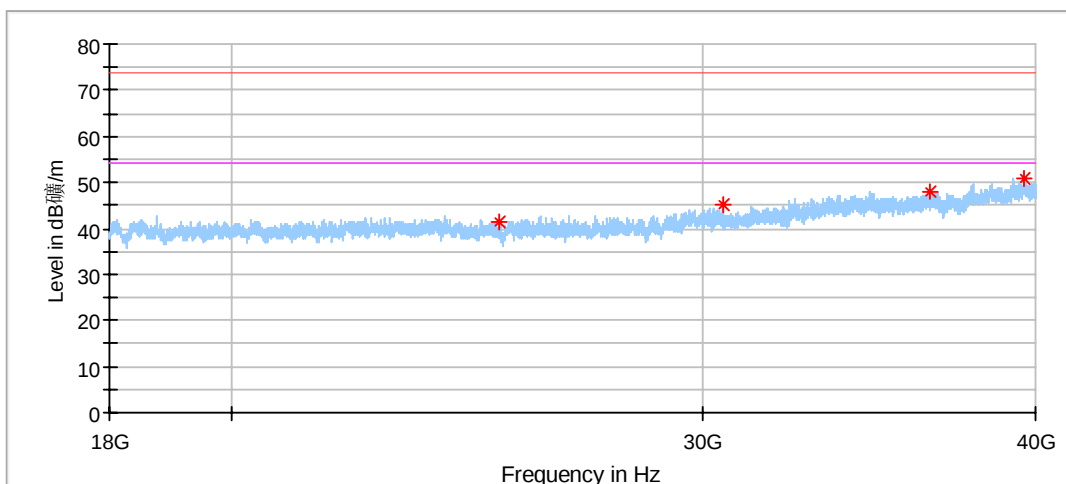
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
22778.400000	41.85	74.00	32.15	150.0	V	87.0	1.65
29979.000000	44.14	74.00	29.86	150.0	V	60.0	2.90
36620.800000	48.12	74.00	25.88	150.0	V	78.0	5.65
39797.600000	51.05	74.00	22.95	150.0	V	236.0	8.64

5825MHz:

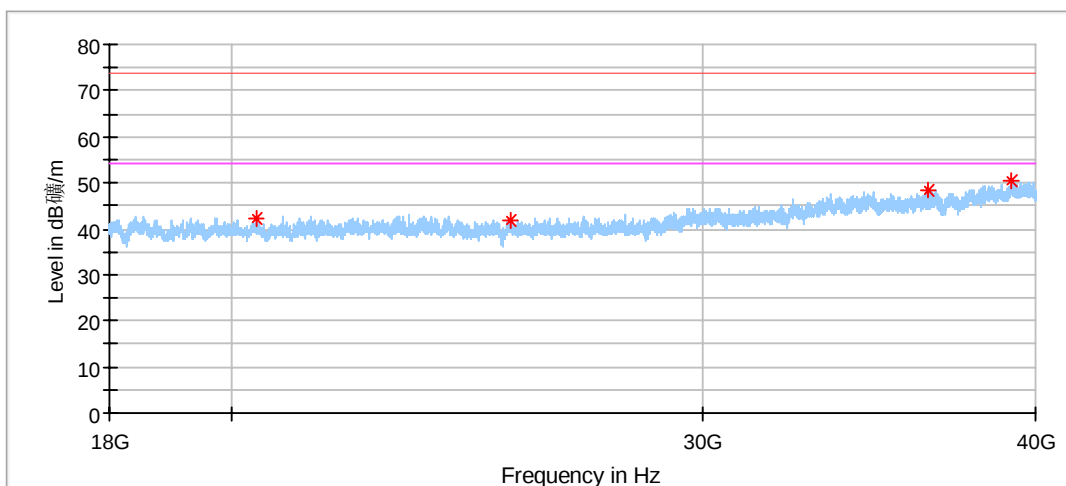
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2225.000000	42.48	74.00	31.52	150.0	H	170.0	-6.52
3642.500000	46.48	74.00	27.52	150.0	H	83.0	0.61
6006.000000	52.68	68.20	15.52	150.0	H	291.0	7.92
8655.500000	39.99	68.20	28.21	150.0	H	330.0	8.44
11047.500000	41.55	74.00	32.45	150.0	H	204.0	10.63
14483.500000	45.75	74.00	28.25	150.0	H	204.0	14.91



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2765.000000	41.87	74.00	32.13	150.0	V	358.0	-4.06
4348.500000	47.15	74.00	26.85	150.0	V	32.0	3.21
6760.000000	52.46	68.20	15.74	150.0	V	350.0	8.74
8234.500000	39.99	74.00	34.01	150.0	V	248.0	8.17
10769.500000	41.55	74.00	32.45	150.0	V	80.0	10.09
14216.500000	44.91	68.20	23.29	150.0	V	57.0	14.19

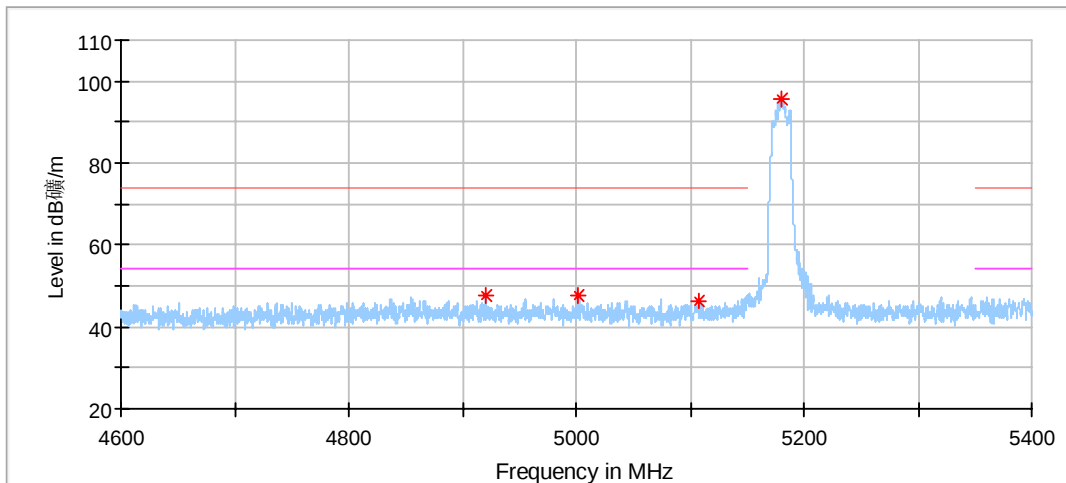


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
25178.600000	41.41	74.00	32.59	150.0	H	210.0	2.13
30529.000000	45.04	74.00	28.96	150.0	H	329.0	2.69
36517.400000	48.20	74.00	25.80	150.0	H	225.0	5.67
39610.600000	50.88	74.00	23.12	150.0	H	210.0	8.32

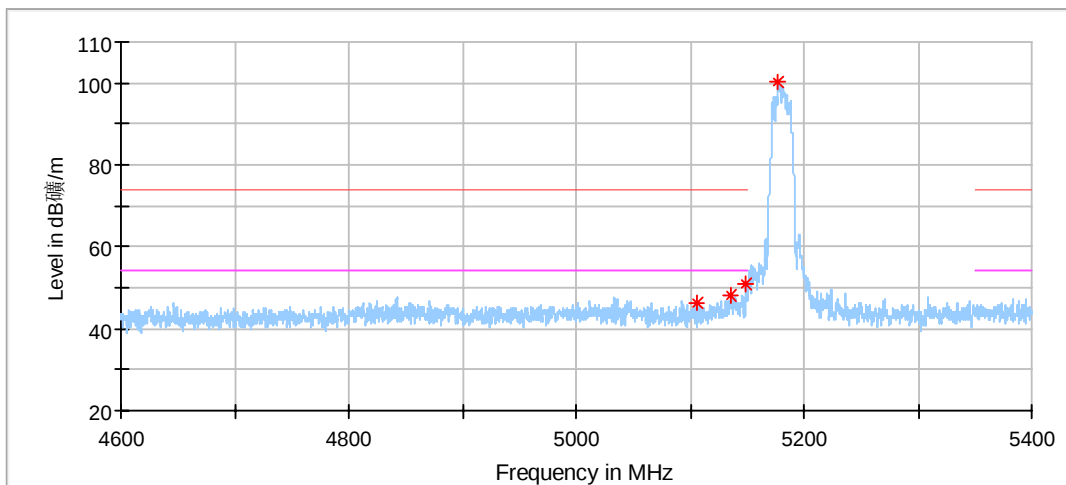


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20426.600000	42.23	74.00	31.77	150.0	V	67.0	-0.33
25420.600000	41.94	74.00	32.06	150.0	V	103.0	2.25
36442.600000	48.41	74.00	25.59	150.0	V	20.0	5.62
39188.200000	50.41	74.00	23.59	150.0	V	85.0	7.18

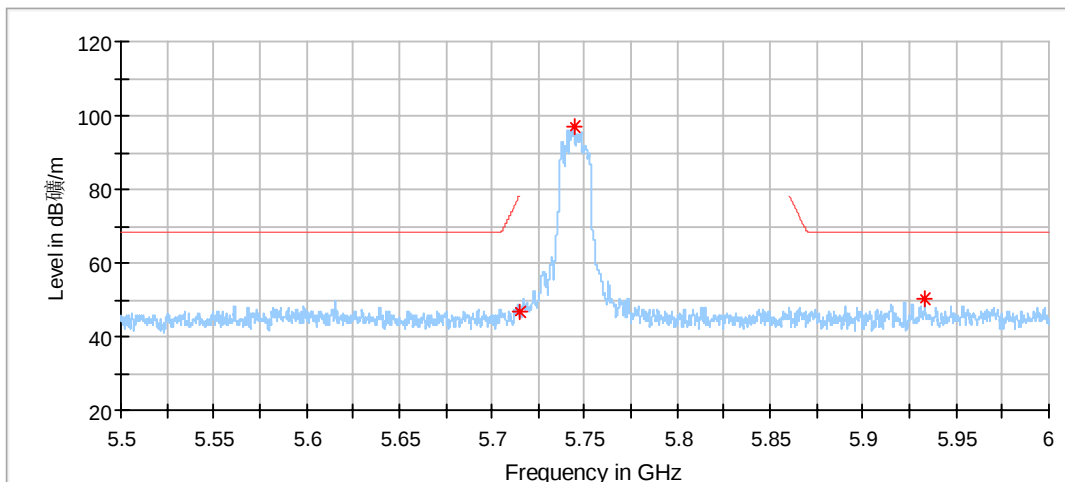
Band edge test result: **5180MHz:**



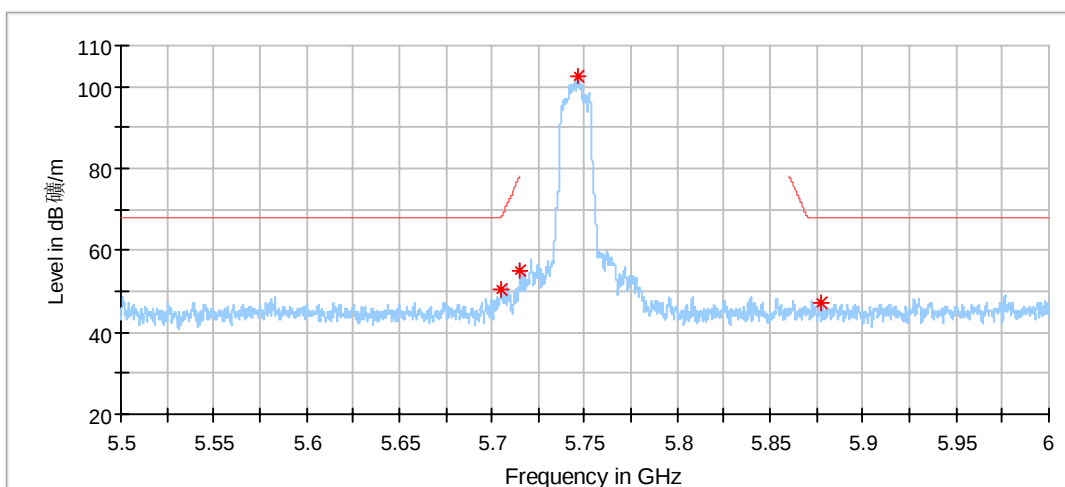
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
4920.866667	47.57	74.00	26.43	150.0	H	260.0	3.63	---
5002.400000	47.52	74.00	26.48	150.0	H	149.0	3.57	---
5107.933333	46.32	74.00	27.68	150.0	H	201.0	3.58	---
5179.466667	95.52	---	---	150.0	H	230.0	3.89	---



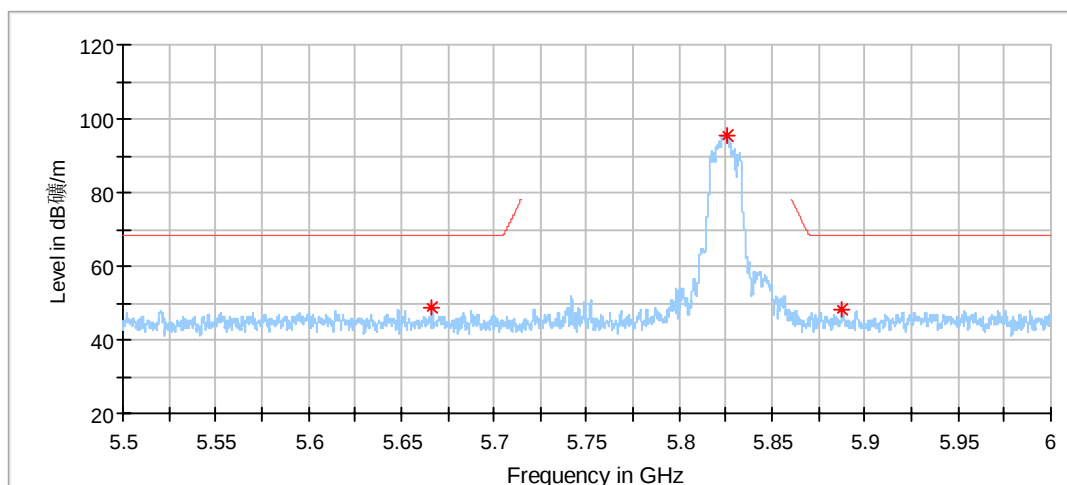
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
5105.000000	46.36	74.00	27.64	150.0	V	345.0	3.57	---
5135.133333	48.04	74.00	25.96	150.0	V	207.0	3.74	---
5149.400000	50.73	74.00	23.27	150.0	V	169.0	3.82	---
5177.666667	100.27	---	---	150.0	V	183.0	3.90	---

5745MHz:

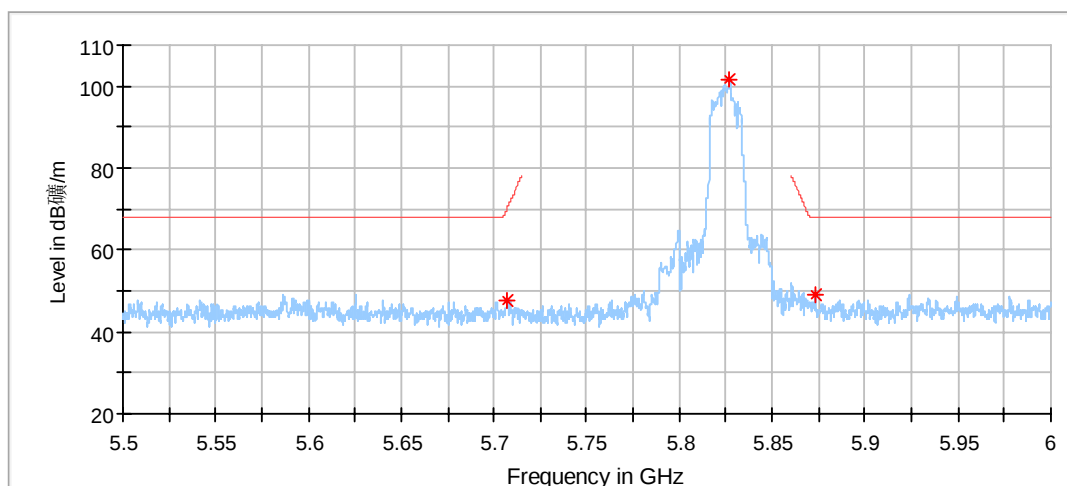
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5715.000000	46.78	---	---	150.0	H	252.0	4.76
5744.166667	96.88	---	---	150.0	H	208.0	4.78
5933.250000	50.36	68.20	17.84	150.0	H	100.0	5.42



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5704.750000	50.55	68.20	17.65	150.0	V	205.0	4.76
5715.000000	55.01	---	---	150.0	V	183.0	4.76
5746.166667	102.53	---	---	150.0	V	168.0	4.78
5876.875000	47.28	68.20	20.92	150.0	V	161.0	5.27

5825MHz:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5666.666667	48.85	68.20	19.35	150.0	H	211.0	4.77
5825.666667	95.59	---	---	150.0	H	219.0	4.94
5887.416667	48.00	68.20	20.20	150.0	H	4.0	5.31



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5707.000000	47.56	70.20	22.64	150.0	V	291.0	4.76
5826.916667	101.49	---	---	150.0	V	166.0	4.95
5873.291667	49.22	68.20	18.98	150.0	V	211.0	5.24

Remark:

1. Corrected Amplitude = Read level + Corrector factor

Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain.

Below 1GHz: Corrector factor = Antenna Factor + Cable Loss.

(The Reading Level is recorded by software which is not shown in the sheet)

2. We test all modes and only the worst case recorded in the report.

3. Data of measurement within frequency range 9kHz-30MHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.

4. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

9.7 Frequencies Stability

Test Method

1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is 0°C to +30°C, normal Temperature is +20°C.

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)

Remark: NV is normal Voltage: 12Vdc, HV is High Voltage: 13.2Vdc, LV is Low Voltage: 10.8Vdc, NT is normal Temperature: +20°C.

TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
11AC20SISO	Ant1	5180	NV	NT	13000	2.509653	PASS
			LV	NT	11000	2.123552	PASS
			HV	NT	11000	2.123552	PASS
		5200	NV	NT	9000	1.730769	PASS
			LV	NT	9000	1.730769	PASS
			HV	NT	9000	1.730769	PASS
		5240	NV	NT	10000	1.908397	PASS
			LV	NT	10000	1.908397	PASS
			HV	NT	9000	1.717557	PASS
		5745	NV	NT	10000	1.740644	PASS
			LV	NT	10000	1.740644	PASS
			HV	NT	10000	1.740644	PASS
		5785	NV	NT	10000	1.728608	PASS
			LV	NT	10000	1.728608	PASS
			HV	NT	10000	1.728608	PASS
		5825	NV	NT	10000	1.716738	PASS
			LV	NT	11000	1.888412	PASS
			HV	NT	10000	1.716738	PASS
11AC40SISO	Ant1	5190	NV	NT	9000	1.734104	PASS
			LV	NT	9000	1.734104	PASS
			HV	NT	9000	1.734104	PASS
		5230	NV	NT	9000	1.720841	PASS
			LV	NT	9000	1.720841	PASS
			HV	NT	9000	1.720841	PASS
		5755	NV	NT	11000	1.911381	PASS
			LV	NT	11000	1.911381	PASS
			HV	NT	11000	1.911381	PASS
		5795	NV	NT	11000	1.898188	PASS
			LV	NT	11000	1.898188	PASS
			HV	NT	10000	1.725626	PASS
11AC80SISO	Ant1	5210	NV	NT	10000	1.919386	PASS
			LV	NT	10000	1.919386	PASS
			HV	NT	9000	1.727447	PASS
		5775	NV	NT	11000	1.904762	PASS
			LV	NT	11000	1.904762	PASS
			HV	NT	11000	1.904762	PASS

TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
11AC20SISO	Ant1	5180	NV	0	9000	1.737452	PASS
			NV	10	9000	1.737452	PASS
			NV	20	9000	1.737452	PASS
			NV	30	9000	1.737452	PASS
		5200	NV	0	9000	1.730769	PASS
			NV	10	9000	1.730769	PASS
			NV	20	9000	1.730769	PASS
			NV	30	9000	1.730769	PASS
		5240	NV	0	9000	1.717557	PASS
			NV	10	9000	1.717557	PASS
			NV	20	9000	1.717557	PASS
			NV	30	9000	1.717557	PASS
		5745	NV	0	10000	1.740644	PASS
			NV	10	10000	1.740644	PASS
			NV	20	10000	1.740644	PASS
			NV	30	10000	1.740644	PASS
		5785	NV	0	10000	1.728608	PASS
			NV	10	10000	1.728608	PASS
			NV	20	10000	1.728608	PASS
			NV	30	10000	1.728608	PASS



		5825	NV	0	10000	1.716738	PASS
			NV	10	10000	1.716738	PASS
			NV	20	10000	1.716738	PASS
			NV	30	10000	1.716738	PASS
11AC40SIS O	Ant1	5190	NV	0	9000	1.734104	PASS
			NV	10	9000	1.734104	PASS
			NV	20	9000	1.734104	PASS
			NV	30	9000	1.734104	PASS
		5230	NV	0	9000	1.720841	PASS
			NV	10	9000	1.720841	PASS
			NV	20	9000	1.720841	PASS
			NV	30	9000	1.720841	PASS
		5755	NV	0	10000	1.737619	PASS
			NV	10	10000	1.737619	PASS
			NV	20	11000	1.911381	PASS
			NV	30	10000	1.737619	PASS
		5795	NV	0	11000	1.898188	PASS
			NV	10	10000	1.725626	PASS
			NV	20	10000	1.725626	PASS
			NV	30	10000	1.725626	PASS
11AC80SIS O	Ant1	5210	NV	0	10000	1.919386	PASS
			NV	10	9000	1.727447	PASS
			NV	20	9000	1.727447	PASS
			NV	30	9000	1.727447	PASS
		5775	NV	0	10000	1.731602	PASS
			NV	10	10000	1.731602	PASS
			NV	20	10000	1.731602	PASS
			NV	30	10000	1.731602	PASS

10 Test Equipment List

Radiated Emission Test(9K – 30MHz)

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2024-5-20
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2024-7-18
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2024-5-28
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2024-8-7
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2024-5-19
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2024-5-19
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission 2# Test(30MHz – 40GHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2024-5-20
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2024-3-5
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2024-4-26
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2024-5-19
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2024-5-19
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2024-7-11
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2024-8-1
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2024-5-19
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Conducted Emission 2# Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2024-5-19
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2024-5-20
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2024-5-19
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2025-10-15



Conducted RF Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2024-5-19
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2025-10-15

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432)	3.15dB
Uncertainty for Radiated Spurious Emission 9kHz-30MHz	4.70dB
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	Horizontal: 4.79dB; Vertical: 4.79dB;
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	5.11dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	5.10dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁸ or 1%

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.

---THE END OF REPORT---