

1.2. Bluetooth

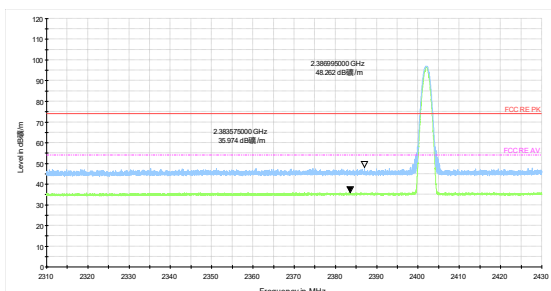
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

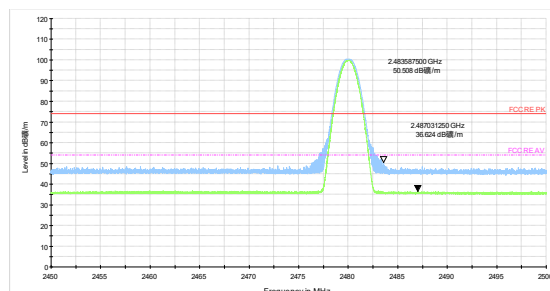
A symbol (dB V/) in the test plot below means ($\text{dB}\mu\text{V/m}$)

The signal beyond the limit is carrier.

Antenna 1

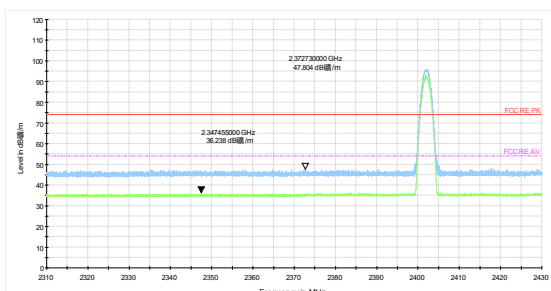


DH5-Channel 0: Peak + Average

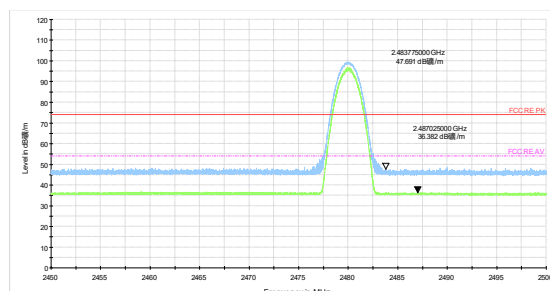


DH5-Channel 78: Peak + Average

The bandage was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

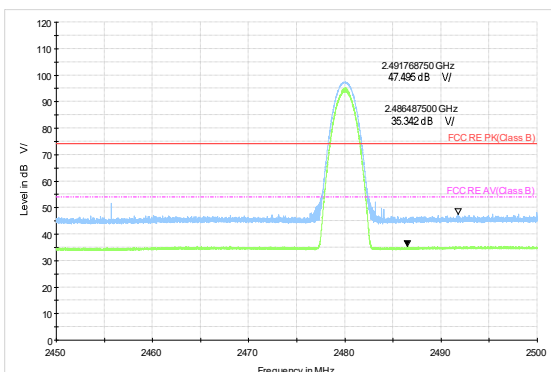


3DH5-Channel 0: Peak + Average



3DH5-Channel 78: Peak + Average

TAS Antenna



3DH5-Channel 78: Peak + Average

Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.
The Radiates Emission from 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **The following graphs display the maximum values of horizontal and vertical by software.**
4. **For below 1GHz**

 QP Level @Spectrum Overview H
  QP Level @Spectrum Overview V
  QP Level @Final Results
  QP Limit

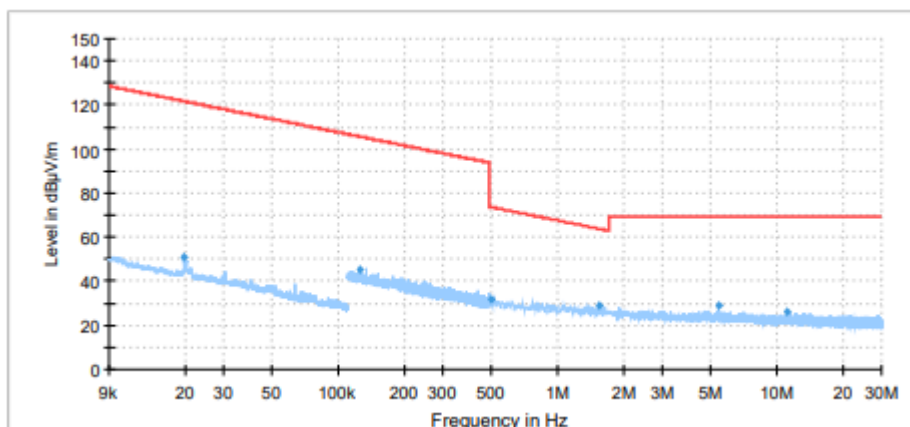
For above 1GHz

 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit

 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit

Continuous TX mode:

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

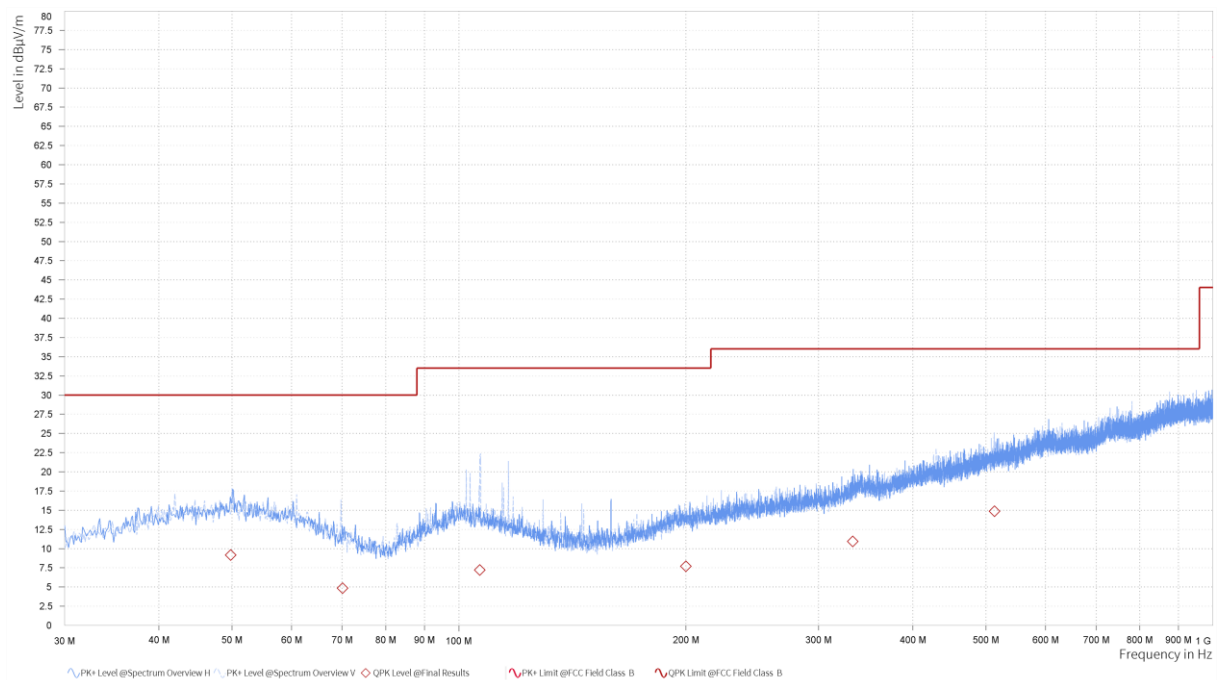


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	50.66	121.69	71.03	500.00	114.00	17
0.13	45.37	105.64	60.26	150.00	106.00	17
0.49	32.19	73.74	41.55	150.00	240.00	17
1.53	28.76	63.88	35.12	150.00	30.00	17
5.45	28.91	69.50	40.59	150.00	19.00	17
11.08	26.08	69.50	43.42	150.00	3.00	17

Radiates Emission from 9kHz to 30MHz

Spectrum Overview H/V

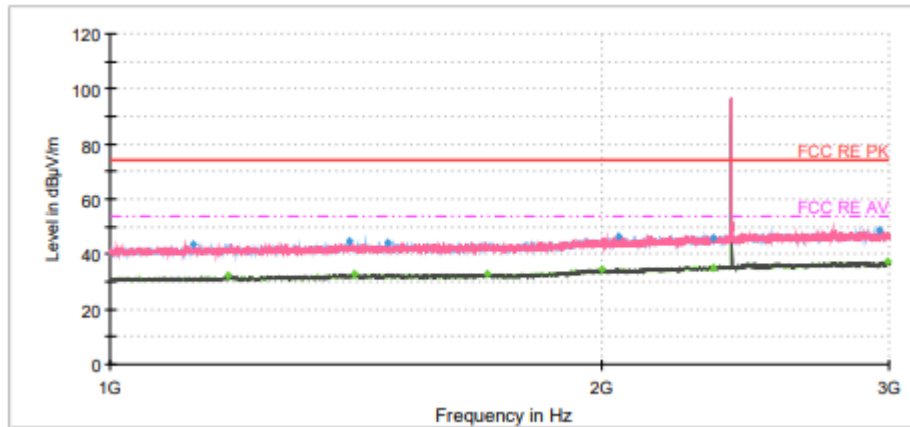


Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [s]
49.800	9.13	30.00	20.87	-8.33	V	272.3	2.05	120.000	1.000
70.123	4.83	30.00	25.17	-12.50	V	247.1	1.11	120.000	1.000
106.618	7.21	33.50	26.29	-10.23	V	59.5	1.25	120.000	1.000
199.971	7.67	33.50	25.83	-9.73	V	151.4	1.14	120.000	1.000
332.899	10.92	36.00	25.08	-6.23	H	272.9	2.25	120.000	1.000
513.246	14.86	36.00	21.14	-2.62	V	154.4	2.05	120.000	1.000

Radiates Emission from 30MHz to 1GHz

Antenna 1

DH5-Channel 0

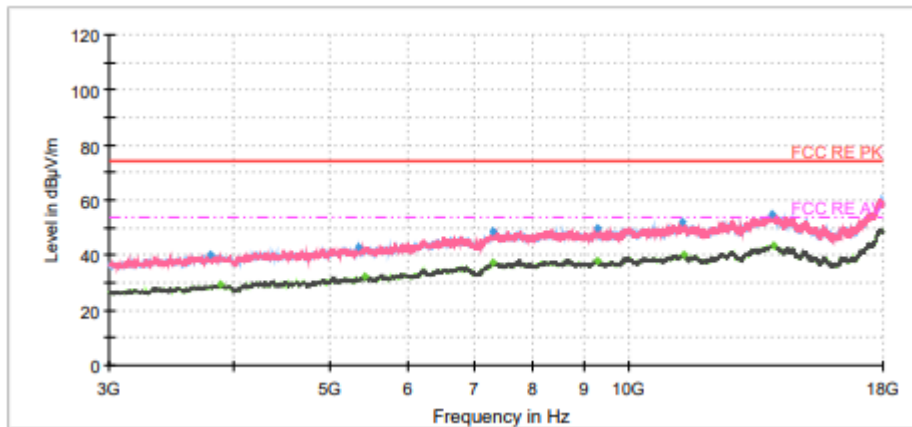


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1123.75	43.45	---	74.00	30.55	500.00	100.0	V	0.00	-4
1182.00	---	32.00	54.00	22.00	500.00	200.0	H	269.00	-4
1402.25	44.62	---	74.00	29.38	500.00	100.0	H	0.00	-3
1412.00	---	32.68	54.00	21.32	500.00	200.0	V	44.00	-3
1478.00	44.43	---	74.00	29.57	500.00	100.0	V	0.00	-3
1701.75	---	32.92	54.00	21.08	500.00	200.0	V	119.00	-2
2001.00	---	34.66	54.00	19.34	500.00	200.0	H	339.00	1
2049.50	46.33	---	74.00	27.67	500.00	100.0	H	0.00	1
2342.00	46.08	---	74.00	27.92	500.00	100.0	H	307.00	2
2342.75	---	35.31	54.00	18.69	500.00	200.0	V	12.00	2
2959.75	48.59	---	74.00	25.41	500.00	100.0	H	358.00	3
2995.50	---	37.30	54.00	16.70	500.00	200.0	H	254.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

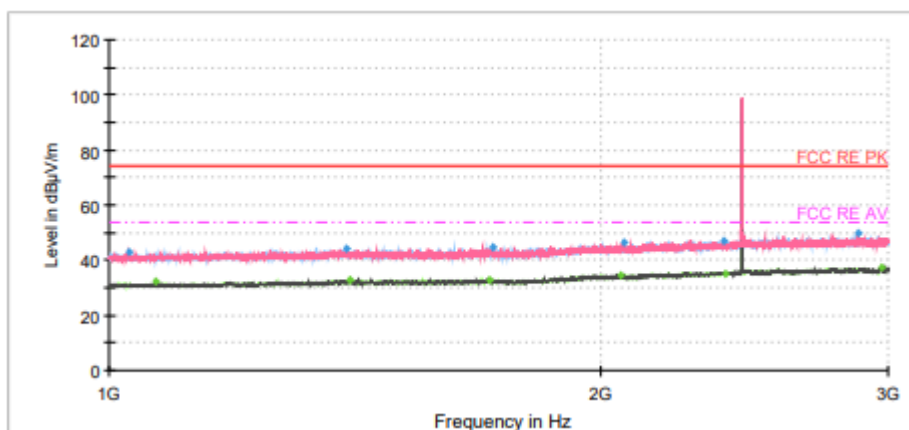


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3795.00	40.25	---	74.00	33.75	500.00	100.0	V	89.00	-5
3886.88	---	29.23	54.00	24.77	500.00	100.0	V	61.00	-4
5330.63	43.22	---	74.00	30.78	500.00	200.0	H	0.00	0
5413.13	---	32.39	54.00	21.61	500.00	100.0	V	196.00	0
7297.50	48.81	---	74.00	25.19	500.00	200.0	V	228.00	6
7301.25	---	37.19	54.00	16.81	500.00	100.0	V	259.00	6
9286.88	49.86	---	74.00	24.14	500.00	200.0	V	22.00	7
9288.75	---	38.04	54.00	15.96	500.00	200.0	H	83.00	7
11311.88	51.97	---	74.00	22.03	500.00	100.0	H	359.00	9
11336.25	---	40.22	54.00	13.78	500.00	200.0	H	343.00	9
13921.88	54.74	---	74.00	19.26	500.00	100.0	H	191.00	12
13961.25	---	43.66	54.00	10.34	500.00	200.0	H	0.00	12

Radiates Emission from 3GHz to 18GHz

DH5-Channel 39

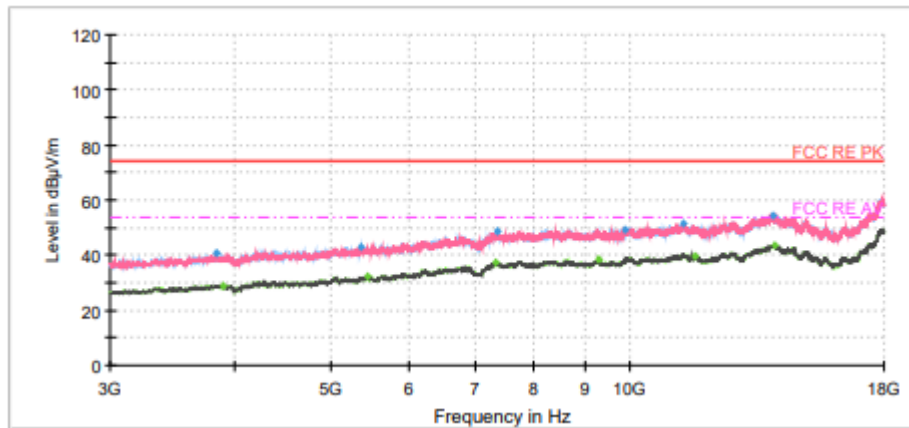


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1029.25	42.99	---	74.00	31.01	500.00	200.0	H	359.00	-5
1067.25	---	32.45	54.00	21.55	500.00	100.0	V	173.00	-5
1399.25	43.97	---	74.00	30.03	500.00	100.0	H	255.00	-3
1405.75	---	32.65	54.00	21.35	500.00	200.0	H	353.00	-3
1708.25	---	32.98	54.00	21.02	500.00	200.0	V	348.00	-2
1719.00	44.72	---	74.00	29.28	500.00	100.0	H	272.00	-2
2056.25	---	34.59	54.00	19.41	500.00	100.0	H	90.00	1
2065.50	46.66	---	74.00	27.34	500.00	200.0	V	8.00	1
2377.50	46.80	---	74.00	27.20	500.00	100.0	V	0.00	2
2382.75	---	35.27	54.00	18.73	500.00	200.0	V	26.00	2
2875.50	49.61	---	74.00	24.39	500.00	100.0	V	102.00	3
2972.50	---	37.45	54.00	16.55	500.00	100.0	H	359.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

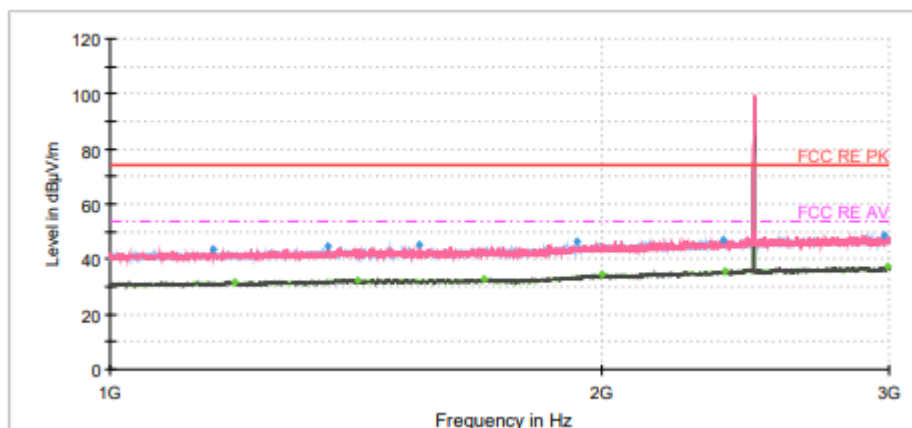


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3838.13	40.99	---	74.00	33.01	500.00	100.0	H	357.00	-4
3892.50	---	29.14	54.00	24.86	500.00	200.0	H	320.00	-4
5353.13	43.12	---	74.00	30.88	500.00	100.0	V	2.00	0
5445.00	---	32.37	54.00	21.63	500.00	200.0	H	98.00	0
7316.25	---	37.37	54.00	16.63	500.00	200.0	V	24.00	5
7336.88	48.55	---	74.00	25.45	500.00	100.0	H	144.00	5
9298.13	---	38.54	54.00	15.46	500.00	100.0	H	283.00	7
9896.25	49.52	---	74.00	24.48	500.00	100.0	V	261.00	7
11296.88	51.48	---	74.00	22.52	500.00	200.0	H	352.00	9
11630.63	---	39.66	54.00	14.34	500.00	200.0	H	113.00	9
13929.38	54.55	---	74.00	19.45	500.00	100.0	V	24.00	12
13953.75	---	43.67	54.00	10.33	500.00	100.0	V	137.00	12

Radiates Emission from 3GHz to 18GHz

DH5-Channel 78

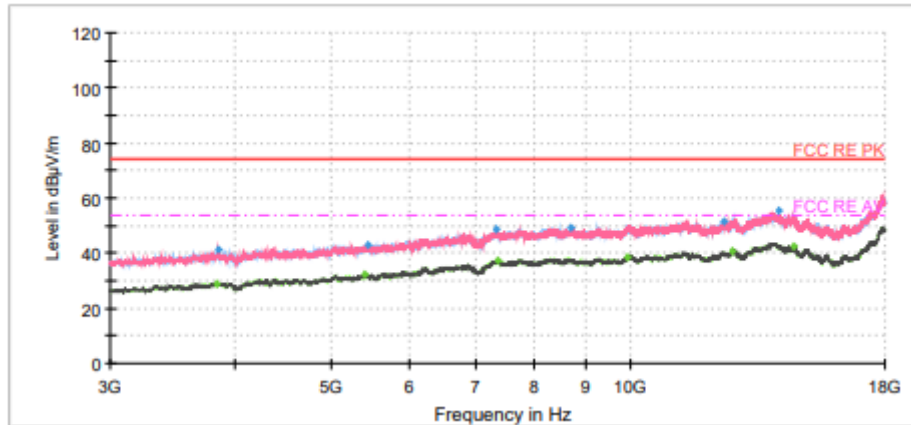


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1156.00	43.41	---	74.00	30.59	500.00	100.0	V	2.00	-4
1191.50	---	31.92	54.00	22.09	500.00	100.0	H	197.00	-4
1358.25	44.50	---	74.00	29.50	500.00	200.0	V	4.00	-3
1417.25	---	32.52	54.00	21.48	500.00	100.0	V	147.00	-3
1546.75	45.47	---	74.00	28.53	500.00	200.0	V	0.00	-2
1693.75	---	33.00	54.00	21.00	500.00	100.0	H	281.00	-2
1930.00	46.27	---	74.00	27.73	500.00	200.0	H	267.00	0
1998.25	---	34.52	54.00	19.48	500.00	100.0	H	0.00	1
2372.75	47.22	---	74.00	26.78	500.00	200.0	V	77.00	2
2380.50	---	35.71	54.00	18.29	500.00	200.0	V	16.00	2
2977.75	48.59	---	74.00	25.41	500.00	100.0	V	0.00	4
2995.50	---	37.34	54.00	16.66	500.00	100.0	V	54.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



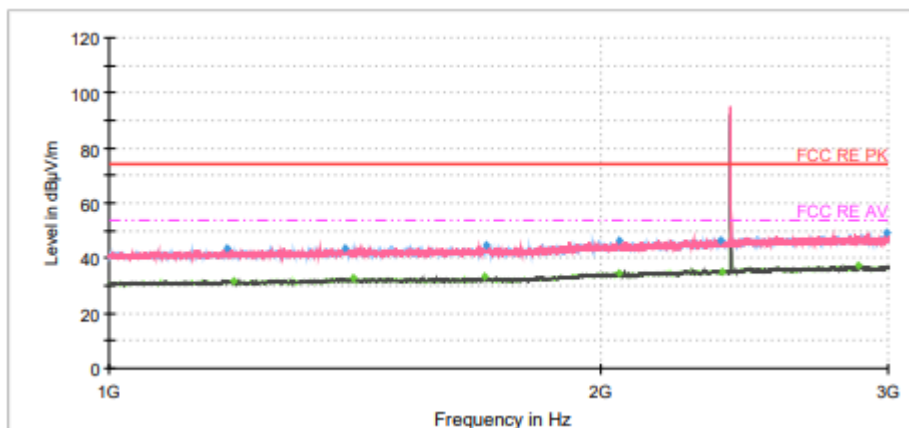
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3840.00	---	29.14	54.00	24.86	500.00	100.0	V	20.00	-4
3858.75	41.35	---	74.00	32.65	500.00	200.0	V	3.00	-4
5411.25	---	32.20	54.00	21.80	500.00	200.0	V	0.00	0
5437.50	43.02	---	74.00	30.98	500.00	100.0	H	349.00	0
7306.88	48.78	---	74.00	25.22	500.00	100.0	H	129.00	5
7340.63	---	37.46	54.00	16.54	500.00	200.0	H	349.00	5
8703.75	49.52	---	74.00	24.48	500.00	100.0	V	245.00	7
9901.88	---	38.40	54.00	15.60	500.00	100.0	V	229.00	7
12416.25	51.72	---	74.00	22.28	500.00	200.0	H	67.00	10
12648.75	---	40.90	54.00	13.10	500.00	200.0	V	36.00	10
14092.50	55.34	---	74.00	18.66	500.00	100.0	V	84.00	12
14583.75	---	42.20	54.00	11.80	500.00	200.0	H	6.00	11

Radiates Emission from 3GHz to 18GHz

The Radiates Emission was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

3DH5-Channel 0

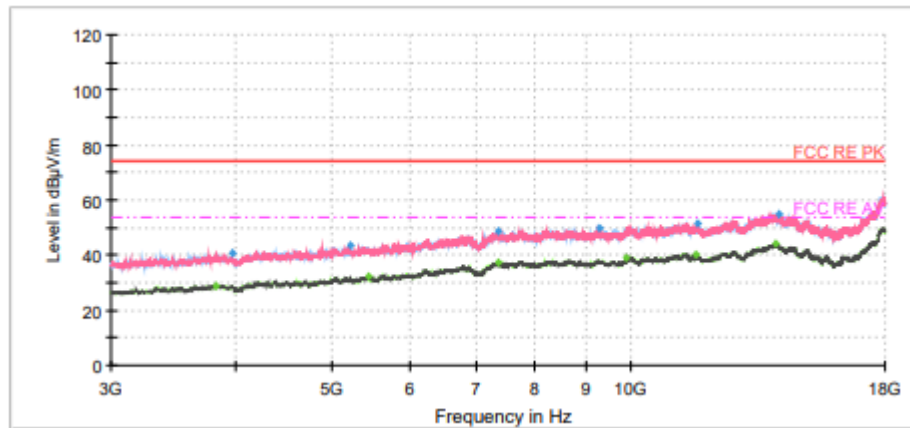


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1181.25	43.42	---	74.00	30.58	500.00	100.0	H	358.00	-4
1192.00	---	31.97	54.00	22.03	500.00	200.0	V	88.00	-4
1395.50	43.72	---	74.00	30.28	500.00	200.0	V	11.00	-3
1410.75	---	32.74	54.00	21.26	500.00	100.0	H	176.00	-3
1696.50	---	33.38	54.00	20.62	500.00	100.0	H	176.00	-2
1702.00	44.61	---	74.00	29.39	500.00	100.0	V	131.00	-2
2051.00	---	34.62	54.00	19.38	500.00	200.0	H	133.00	1
2053.75	46.49	---	74.00	27.51	500.00	100.0	V	51.00	1
2368.00	46.63	---	74.00	27.37	500.00	200.0	V	203.00	2
2372.50	---	35.37	54.00	18.63	500.00	100.0	H	260.00	2
2877.50	---	37.28	54.00	16.72	500.00	200.0	H	0.00	3
2992.25	49.16	---	74.00	24.84	500.00	200.0	V	188.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

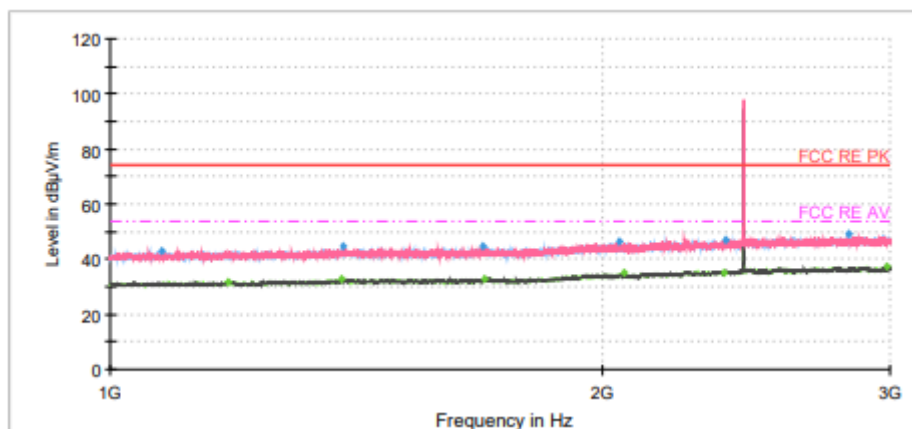


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3823.13	---	29.15	54.00	24.85	500.00	100.0	H	254.00	-5
3967.50	40.96	---	74.00	33.04	500.00	200.0	V	21.00	-4
5214.38	43.36	---	74.00	30.64	500.00	100.0	V	37.00	0
5439.38	---	32.09	54.00	21.91	500.00	100.0	H	50.00	0
7338.75	48.46	---	74.00	25.54	500.00	200.0	V	324.00	5
7344.38	---	37.48	54.00	16.52	500.00	100.0	V	15.00	5
9301.88	49.62	---	74.00	24.38	500.00	200.0	H	112.00	7
9888.75	---	38.86	54.00	15.14	500.00	100.0	H	336.00	7
11625.00	---	40.18	54.00	13.82	500.00	20.0	H	352.00	9
11656.88	51.39	---	74.00	22.61	500.00	200.0	V	60.00	9
13965.00	---	43.88	54.00	10.12	500.00	100.0	V	1.00	12
14068.13	54.96	---	74.00	19.04	500.00	100.0	V	1.00	12

Radiates Emission from 3GHz to 18GHz

3DH5-Channel 39

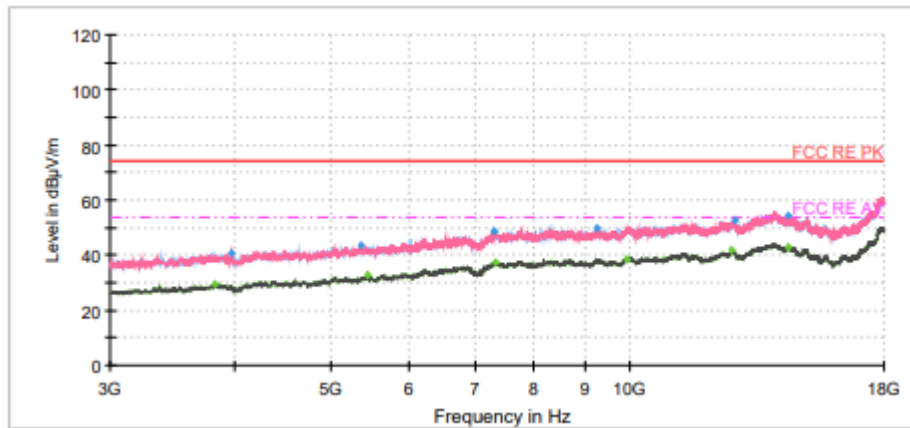


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1075.50	43.17	---	74.00	30.83	500.00	200.0	V	86.00	-5
1181.25	---	31.74	54.00	22.26	500.00	200.0	V	86.00	-4
1385.25	---	32.63	54.00	21.37	500.00	100.0	H	36.00	-3
1389.25	44.69	---	74.00	29.31	500.00	100.0	H	180.00	-3
1688.25	44.65	---	74.00	29.35	500.00	200.0	H	0.00	-2
1692.75	---	32.93	54.00	21.07	500.00	100.0	V	19.00	-2
2049.00	46.33	---	74.00	27.67	500.00	200.0	H	331.00	1
2064.50	---	35.16	54.00	18.84	500.00	100.0	H	124.00	1
2373.25	---	35.30	54.00	18.70	500.00	100.0	V	256.00	2
2377.25	46.90	---	74.00	27.10	500.00	200.0	H	352.00	2
2832.50	49.08	---	74.00	24.92	500.00	100.0	H	354.00	3
2989.25	---	37.31	54.00	16.69	500.00	100.0	V	0.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

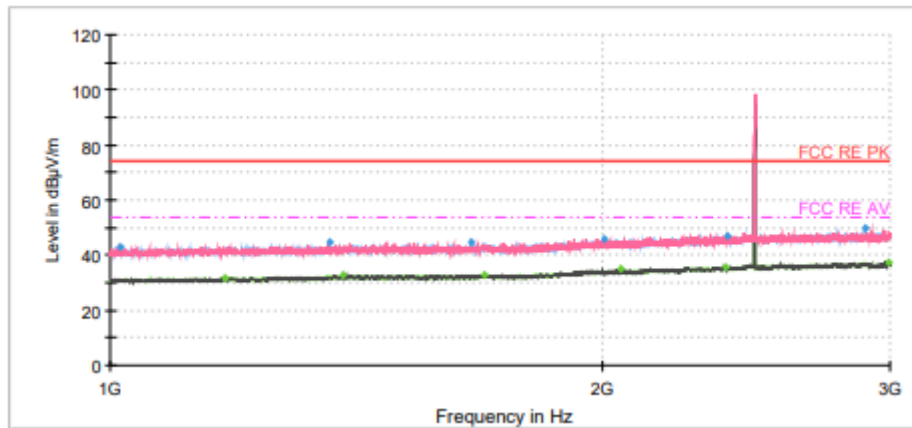


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3826.88	---	29.53	54.00	24.47	500.00	100.0	V	15.00	-5
3965.63	40.73	---	74.00	33.27	500.00	100.0	V	215.00	-4
5362.50	43.49	---	74.00	30.51	500.00	200.0	V	324.00	0
5443.13	---	32.56	54.00	21.44	500.00	100.0	V	1.00	0
7301.25	48.72	---	74.00	25.28	500.00	100.0	H	0.00	6
7325.63	---	37.42	54.00	16.58	500.00	200.0	H	336.00	5
9258.75	50.05	---	74.00	23.95	500.00	200.0	V	122.00	7
9905.63	---	38.77	54.00	15.23	500.00	100.0	V	0.00	7
12650.63	---	41.76	54.00	12.24	500.00	200.0	H	359.00	10
12716.25	52.40	---	74.00	21.60	500.00	100.0	H	354.00	10
14390.63	---	43.14	54.00	10.86	500.00	200.0	V	337.00	11
14407.50	54.14	---	74.00	19.86	500.00	100.0	H	144.00	11

Radiates Emission from 3GHz to 18GHz

3DH5-Channel 78

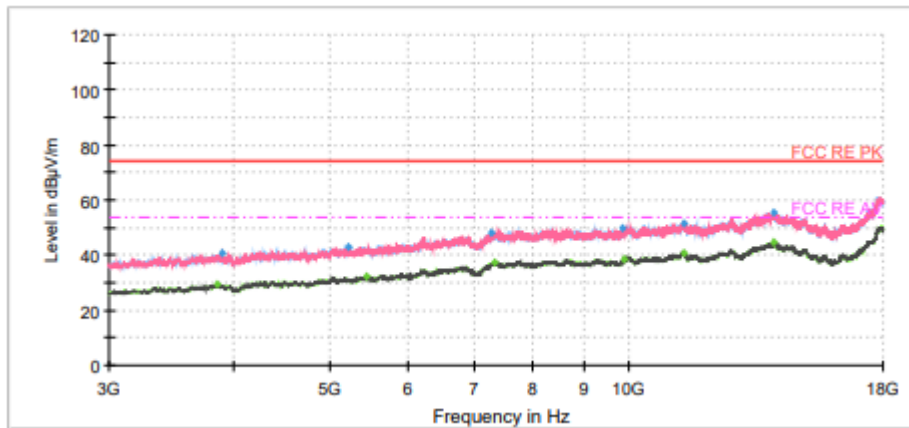


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1014.50	43.19	---	74.00	30.81	500.00	100.0	V	4.00	-5
1176.25	---	31.75	54.00	22.25	500.00	100.0	V	0.00	-4
1362.00	44.56	---	74.00	29.44	500.00	200.0	H	255.00	-3
1388.50	---	32.68	54.00	21.32	500.00	100.0	V	16.00	-3
1663.50	44.61	---	74.00	29.39	500.00	200.0	H	170.00	-2
1693.50	---	32.97	54.00	21.03	500.00	100.0	V	148.00	-2
2005.75	46.13	---	74.00	27.87	500.00	200.0	V	2.00	1
2052.75	---	34.83	54.00	19.17	500.00	100.0	V	54.00	1
2378.75	---	35.43	54.00	18.57	500.00	100.0	V	91.00	2
2382.75	46.92	---	74.00	27.08	500.00	200.0	H	348.00	2
2893.50	49.72	---	74.00	24.28	500.00	200.0	H	315.00	3
2992.75	---	37.40	54.00	16.60	500.00	100.0	V	4.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



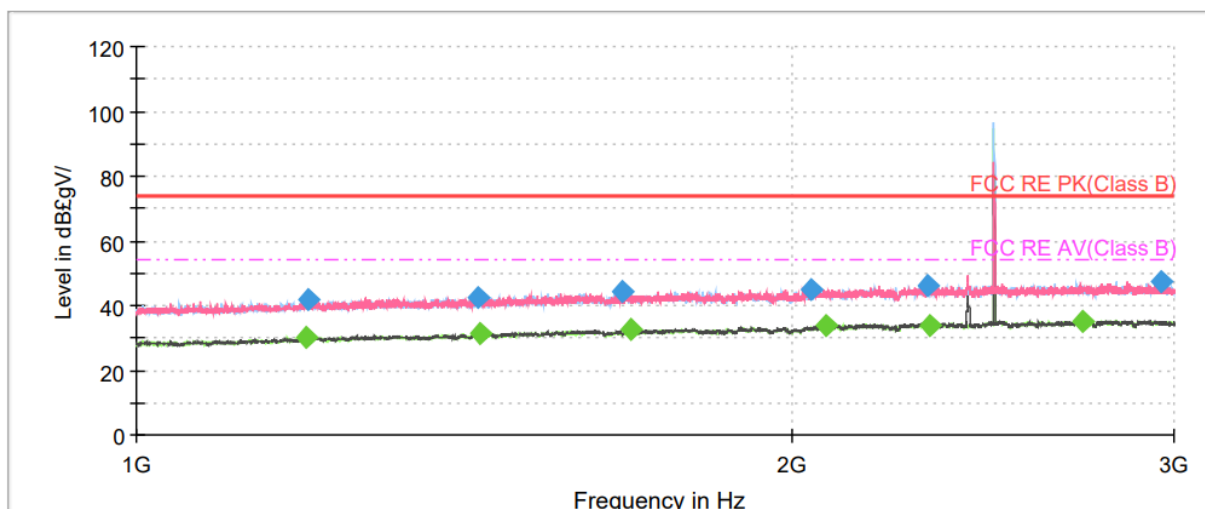
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3855.00	---	29.16	54.00	24.84	500.00	100.0	H	348.00	-4
3890.63	40.51	---	74.00	33.49	500.00	100.0	V	260.00	-4
5212.50	43.21	---	74.00	30.79	500.00	100.0	H	356.00	0
5445.00	---	32.24	54.00	21.76	500.00	200.0	H	224.00	0
7269.38	48.15	---	74.00	25.85	500.00	100.0	H	67.00	5
7329.38	---	37.44	54.00	16.56	500.00	100.0	H	239.00	5
9849.38	49.70	---	74.00	24.30	500.00	200.0	H	328.00	7
9886.88	---	38.65	54.00	15.35	500.00	200.0	V	0.00	7
11334.38	---	40.98	54.00	13.02	500.00	100.0	H	328.00	9
11351.25	51.47	---	74.00	22.53	500.00	100.0	H	352.00	9
13951.88	55.62	---	74.00	18.38	500.00	200.0	V	227.00	12
13961.25	---	44.49	54.00	9.51	500.00	200.0	H	298.00	12

Radiates Emission from 3GHz to 18GHz

TAS Antenna

3DH5-Channel 78

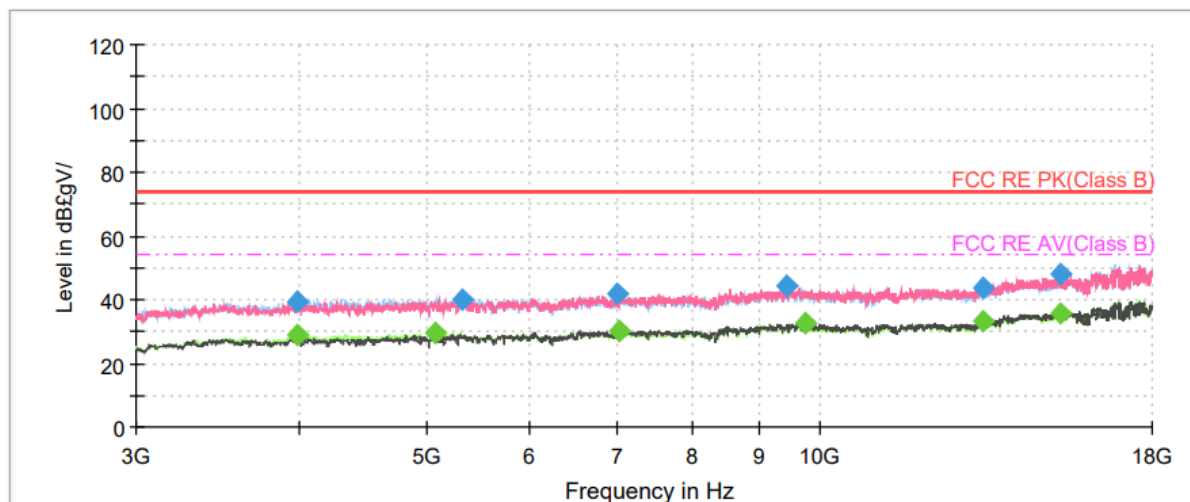


Final Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.750000	---	29.89	54.00	24.11	500.0	100.0	V	52.0	-8.8
1199.500000	41.71	---	74.00	32.29	500.0	100.0	V	194.0	-8.8
1436.500000	42.69	---	74.00	31.31	500.0	200.0	H	310.0	-7.3
1438.000000	---	31.28	54.00	22.72	500.0	200.0	V	317.0	-7.3
1671.000000	44.01	---	74.00	29.99	500.0	100.0	V	306.0	-6.1
1689.750000	---	32.64	54.00	21.36	500.0	100.0	V	78.0	-6.0
2044.750000	44.97	---	74.00	29.03	500.0	100.0	V	219.0	-4.3
2076.500000	---	33.70	54.00	20.30	500.0	200.0	V	177.0	-4.0
2313.000000	46.12	---	74.00	27.88	500.0	200.0	H	352.0	-2.9
2318.250000	---	34.15	54.00	19.85	500.0	100.0	H	112.0	-2.9
2726.250000	---	35.35	54.00	18.65	500.0	100.0	H	261.0	-1.5
2958.750000	47.60	---	74.00	26.40	500.0	200.0	H	302.0	-0.8

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3990.000000	39.34	---	74.00	34.66	500.0	100.0	H	164.0	-6.8
3991.875000	---	28.70	54.00	25.30	500.0	200.0	H	3.0	-6.8
5083.125000	---	29.35	54.00	24.65	500.0	200.0	H	21.0	-4.9
5326.875000	39.88	---	74.00	34.12	500.0	100.0	H	200.0	-4.7
7001.250000	41.91	---	74.00	32.09	500.0	200.0	H	98.0	-3.0
7029.375000	---	30.29	54.00	23.71	500.0	100.0	V	268.0	-3.1
9448.125000	44.06	---	74.00	29.94	500.0	100.0	V	119.0	-0.3
9768.750000	---	32.67	54.00	21.33	500.0	100.0	V	119.0	-0.5
13338.750000	43.97	---	74.00	30.03	500.0	200.0	V	287.0	2.3
13351.875000	---	33.12	54.00	20.88	500.0	200.0	V	333.0	2.4
15309.375000	---	35.78	54.00	18.22	500.0	200.0	V	250.0	5.6
15311.250000	47.71	---	74.00	26.29	500.0	100.0	V	51.0	5.6

Radiates Emission from 3GHz to 18GHz

1.3. Bluetooth LE

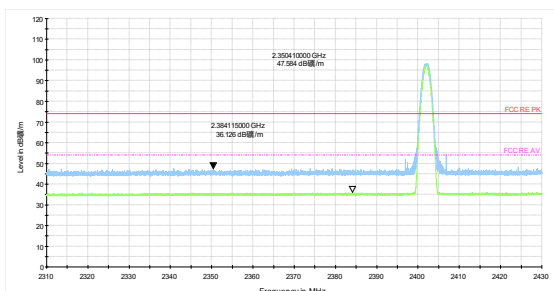
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

A symbol ($\text{dB}\frac{\mu\text{V}}{\text{m}}$) in the test plot below means ($\text{dB}\mu\text{V}/\text{m}$)

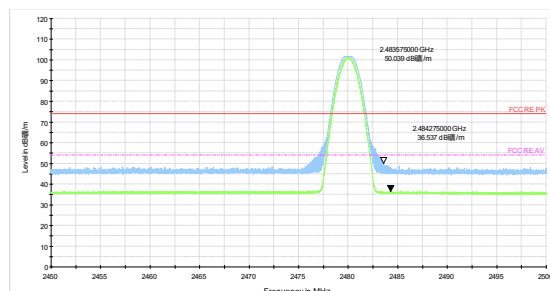
A symbol ($\text{dB}\frac{\text{V}}{\text{V}}$) in the test plot below means ($\text{dB}\mu\text{V}/\text{m}$)

After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.

Antenna 1

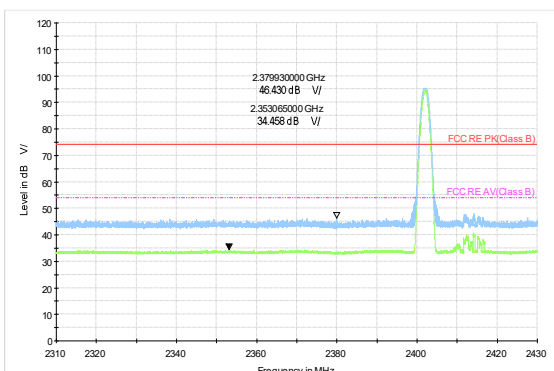


Bluetooth LE (1M) Channel 0 Peak+ Average



Bluetooth LE (1M) Channel 39 Peak+Average

TAS Antenna



Bluetooth LE (1M) Channel 0 Peak+ Average

Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.
The Radiates Emission from 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)**
4. **The following graphs display the maximum values of horizontal and vertical by software.**
5. **For below 1GHz**

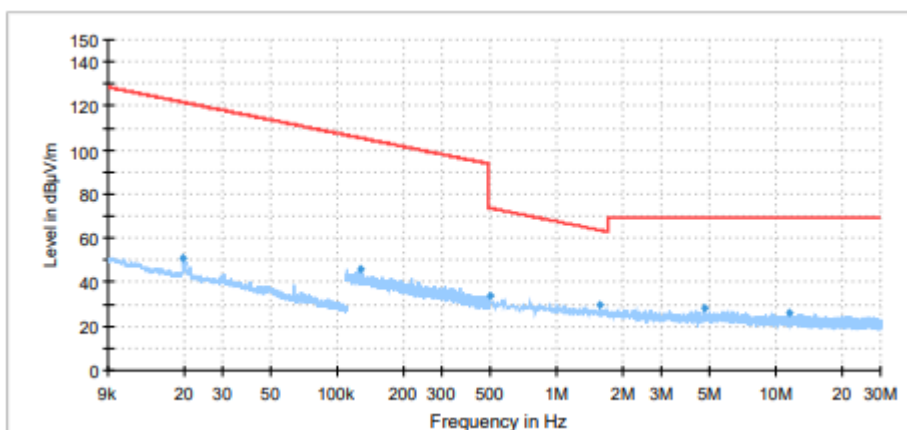
~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

For above 1GHz

~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Continuous TX mode:

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

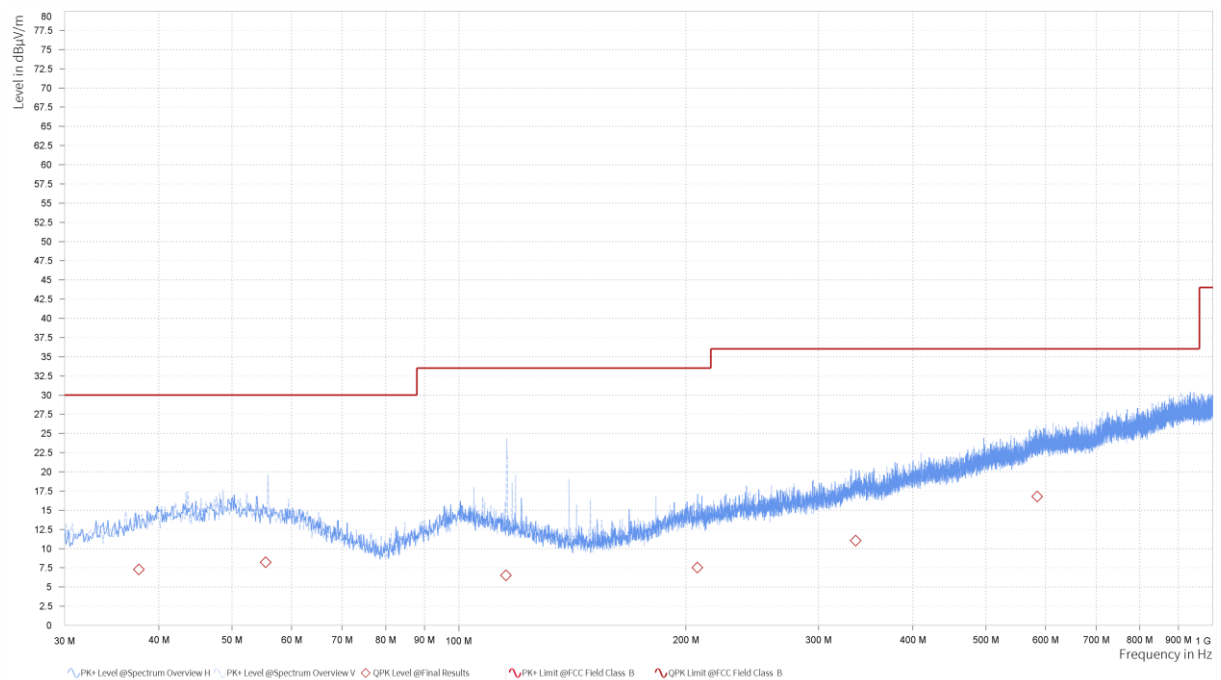


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	50.88	121.70	70.81	500.00	265.00	17
0.13	46.13	105.44	59.31	150.00	92.00	17
0.49	34.03	73.74	39.70	150.00	127.00	17
1.57	30.06	63.65	33.59	150.00	133.00	17
4.73	28.12	69.50	41.38	150.00	7.00	17
11.59	25.91	69.50	43.59	150.00	16.00	17

Radiates Emission from 9kHz to 30MHz

Spectrum Overview H/V

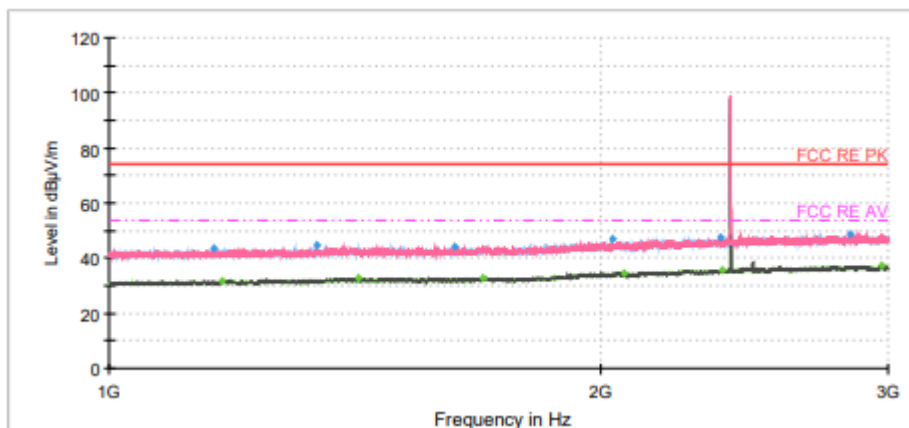


Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [s]
37.642	7.28	30.00	22.72	-10.27	V	47.4	1.98	120.000	1.000
55.417	8.22	30.00	21.78	-8.99	V	46	1.17	120.000	1.000
115.486	6.49	33.50	27.01	-11.04	V	325.2	1.95	120.000	1.000
207.194	7.52	33.50	25.98	-9.69	H	346.1	1.10	120.000	1.000
335.824	11.04	36.00	24.96	-6.07	H	121	2.24	120.000	1.000
584.787	16.77	36.00	19.23	-1.15	V	93.7	2.14	120.000	1.000

Radiates Emission from 30MHz to 1GHz

Antenna 1

Bluetooth LE-Channel 0

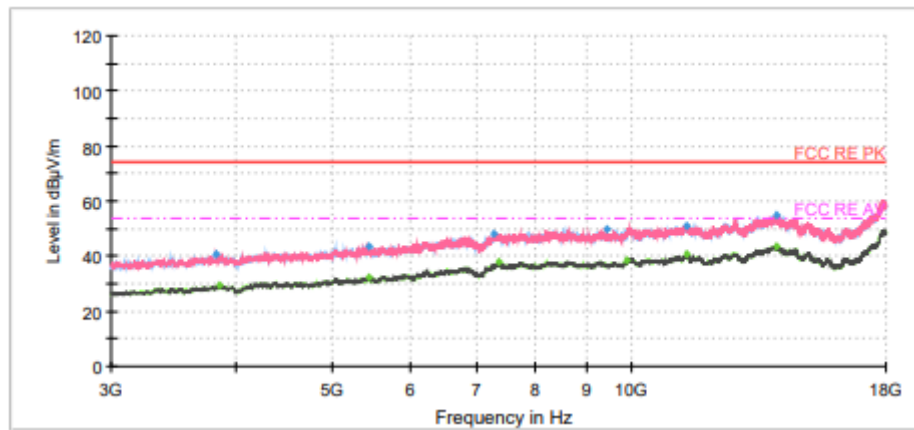


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1159.00	43.86	---	74.00	30.14	500.00	200.0	H	7.00	-4
1174.00	---	31.98	54.00	22.02	500.00	200.0	H	160.00	-4
1339.00	44.73	---	74.00	29.27	500.00	100.0	H	71.00	-3
1419.75	---	32.74	54.00	21.26	500.00	100.0	H	154.00	-3
1627.25	44.39	---	74.00	29.61	500.00	200.0	H	14.00	-2
1695.00	---	33.03	54.00	20.97	500.00	200.0	V	129.00	-2
2034.75	46.74	---	74.00	27.26	500.00	200.0	H	18.00	0
2067.25	---	34.70	54.00	19.30	500.00	200.0	V	340.00	1
2369.50	47.29	---	74.00	26.71	500.00	200.0	V	101.00	2
2375.00	---	35.67	54.00	18.33	500.00	100.0	V	7.00	2
2845.50	48.76	---	74.00	25.24	500.00	200.0	V	305.00	3
2972.75	---	37.40	54.00	16.60	500.00	100.0	H	0.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

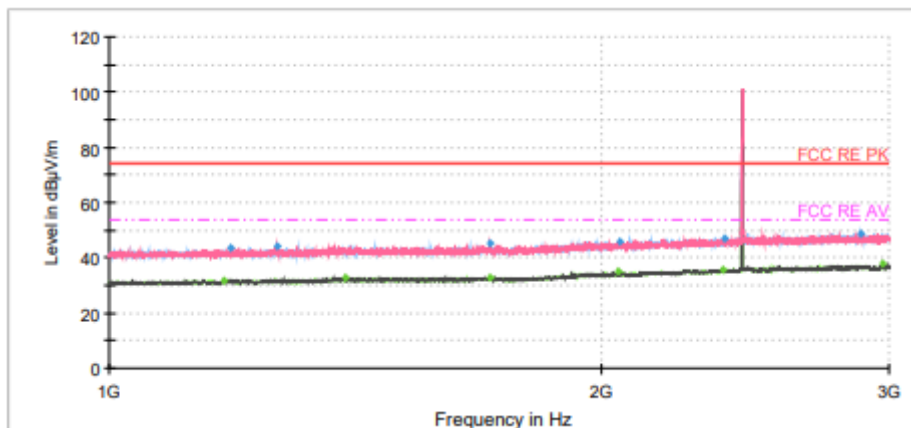


Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3828.75	40.62	---	74.00	33.38	500.00	200.0	V	261.00	-4
3851.25	---	29.54	54.00	24.46	500.00	100.0	V	136.00	-4
5441.25	43.56	---	74.00	30.44	500.00	200.0	V	4.00	0
5446.88	---	32.24	54.00	21.76	500.00	100.0	V	6.00	0
7265.63	48.16	---	74.00	25.84	500.00	200.0	V	167.00	5
7342.50	---	37.72	54.00	16.28	500.00	200.0	H	322.00	5
9423.75	49.87	---	74.00	24.13	500.00	100.0	V	33.00	7
9890.63	---	38.48	54.00	15.52	500.00	100.0	V	6.00	7
11345.63	50.98	---	74.00	23.02	500.00	200.0	H	344.00	9
11345.63	---	40.71	54.00	13.29	500.00	100.0	H	344.00	9
13953.75	---	43.61	54.00	10.39	500.00	200.0	V	323.00	12
13965.00	54.69	---	74.00	19.31	500.00	100.0	V	0.00	12

Radiates Emission from 3GHz to 18GHz

Bluetooth LE-Channel 19

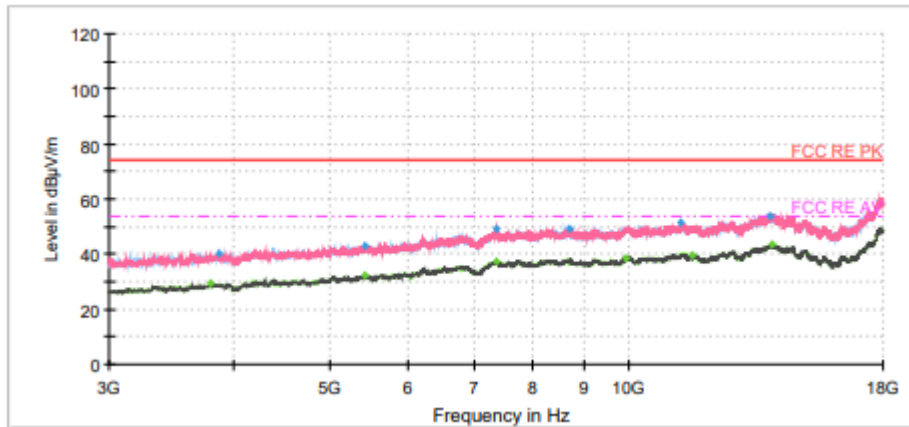


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1175.00	---	31.95	54.00	22.05	500.00	100.0	V	148.00	-4
1187.25	43.49	---	74.00	30.51	500.00	200.0	H	30.00	-4
1268.25	44.20	---	74.00	29.80	500.00	100.0	V	12.00	-4
1393.25	---	32.93	54.00	21.07	500.00	200.0	V	358.00	-3
1710.00	---	33.02	54.00	20.98	500.00	100.0	V	358.00	-2
1711.75	45.05	---	74.00	28.95	500.00	200.0	V	327.00	-2
2050.25	---	35.05	54.00	18.95	500.00	200.0	H	2.00	1
2053.00	46.03	---	74.00	27.97	500.00	200.0	V	341.00	1
2376.00	---	35.89	54.00	18.11	500.00	100.0	V	17.00	2
2378.75	47.18	---	74.00	26.82	500.00	100.0	V	318.00	2
2886.25	48.86	---	74.00	25.14	500.00	100.0	H	355.00	3
2973.00	---	37.71	54.00	16.29	500.00	100.0	V	331.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

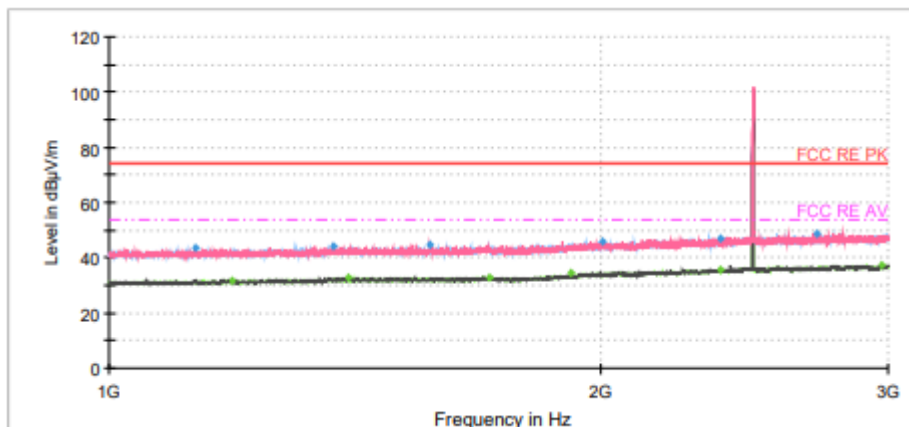


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3791.25	---	29.18	54.00	24.82	500.00	200.0	V	0.00	-5
3866.25	40.17	---	74.00	33.83	500.00	100.0	V	10.00	-4
5415.00	---	32.25	54.00	21.75	500.00	200.0	V	21.00	0
5424.38	42.88	---	74.00	31.12	500.00	200.0	V	85.00	0
7335.00	---	37.39	54.00	16.61	500.00	100.0	V	21.00	5
7335.00	49.10	---	74.00	24.90	500.00	100.0	V	21.00	5
8698.13	49.43	---	74.00	24.57	500.00	200.0	V	85.00	7
9903.75	---	38.58	54.00	15.42	500.00	100.0	H	359.00	7
11261.25	51.24	---	74.00	22.76	500.00	200.0	V	3.00	9
11576.25	---	39.56	54.00	14.44	500.00	100.0	H	353.00	9
13858.13	53.67	---	74.00	20.33	500.00	100.0	H	160.00	12
13929.38	---	43.35	54.00	10.65	500.00	100.0	H	236.00	12

Radiates Emission from 3GHz to 18GHz

Bluetooth LE-Channel 39

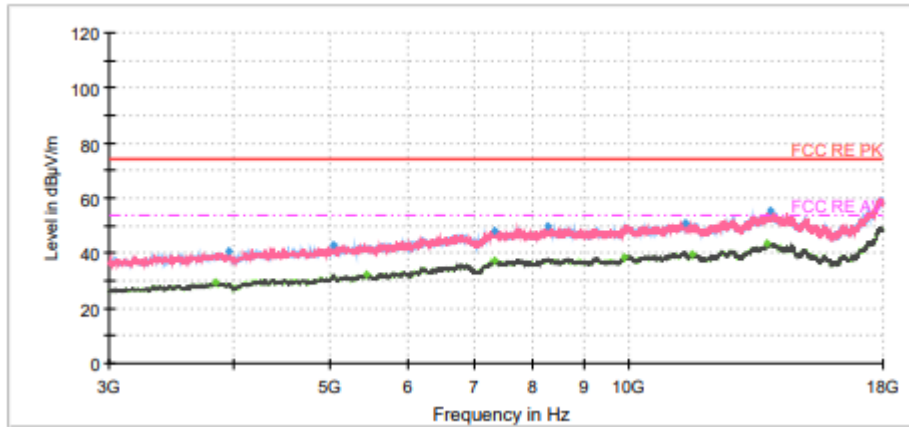


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1129.00	43.34	---	74.00	30.66	500.00	200.0	V	358.00	-4
1188.25	---	31.91	54.00	22.09	500.00	200.0	H	35.00	-4
1373.50	44.25	---	74.00	29.75	500.00	200.0	V	304.00	-3
1402.25	---	32.83	54.00	21.17	500.00	100.0	H	0.00	-3
1573.25	44.58	---	74.00	29.42	500.00	100.0	V	0.00	-2
1709.00	---	32.93	54.00	21.07	500.00	100.0	V	0.00	-2
1919.75	---	34.74	54.00	19.26	500.00	200.0	V	343.00	0
2003.75	46.04	---	74.00	27.96	500.00	100.0	H	359.00	1
2365.50	47.14	---	74.00	26.86	500.00	200.0	V	198.00	2
2370.50	---	35.68	54.00	18.32	500.00	200.0	V	348.00	2
2712.50	48.84	---	74.00	25.16	500.00	100.0	H	0.00	3
2972.50	---	37.52	54.00	16.48	500.00	200.0	H	8.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



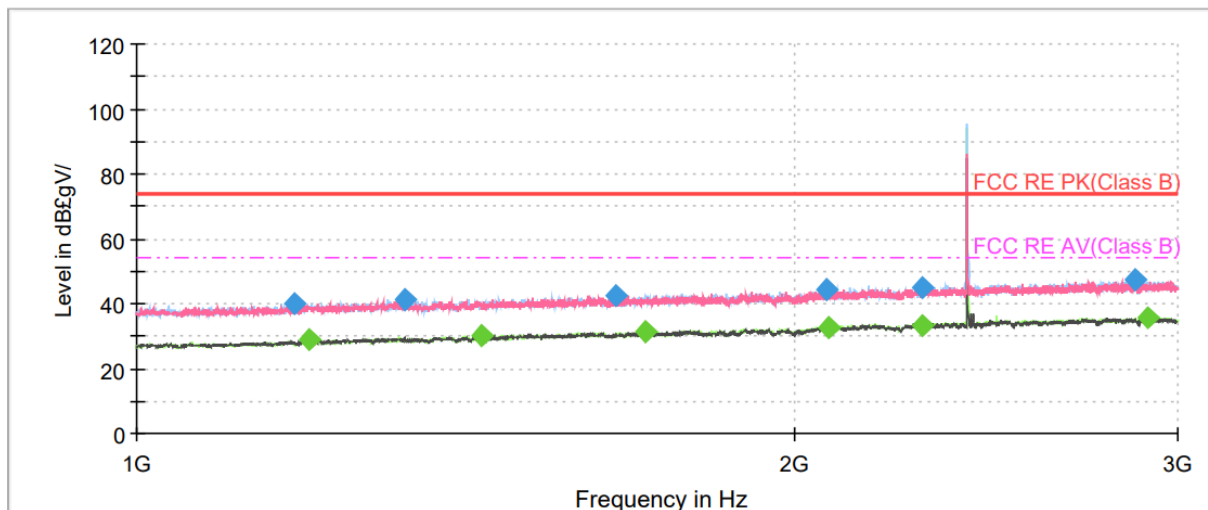
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3843.75	---	29.39	54.00	24.61	500.00	100.0	H	6.00	-4
3952.50	40.74	---	74.00	33.26	500.00	100.0	H	152.00	-4
5045.63	42.94	---	74.00	31.06	500.00	100.0	V	20.00	0
5439.38	---	32.27	54.00	21.73	500.00	200.0	V	35.00	0
7321.88	---	37.36	54.00	16.64	500.00	200.0	V	176.00	5
7327.50	48.25	---	74.00	25.75	500.00	100.0	V	14.00	5
8280.00	49.65	---	74.00	24.35	500.00	200.0	H	0.00	6
9886.88	---	38.73	54.00	15.27	500.00	100.0	H	0.00	7
11377.50	50.75	---	74.00	23.25	500.00	200.0	V	253.00	9
11574.38	---	39.42	54.00	14.58	500.00	100.0	V	2.00	9
13743.75	---	43.48	54.00	10.52	500.00	200.0	H	350.00	12
13876.88	55.21	---	74.00	18.79	500.00	100.0	V	0.00	12

Radiates Emission from 3GHz to 18GHz

TAS Antenna

Bluetooth LE-Channel 0

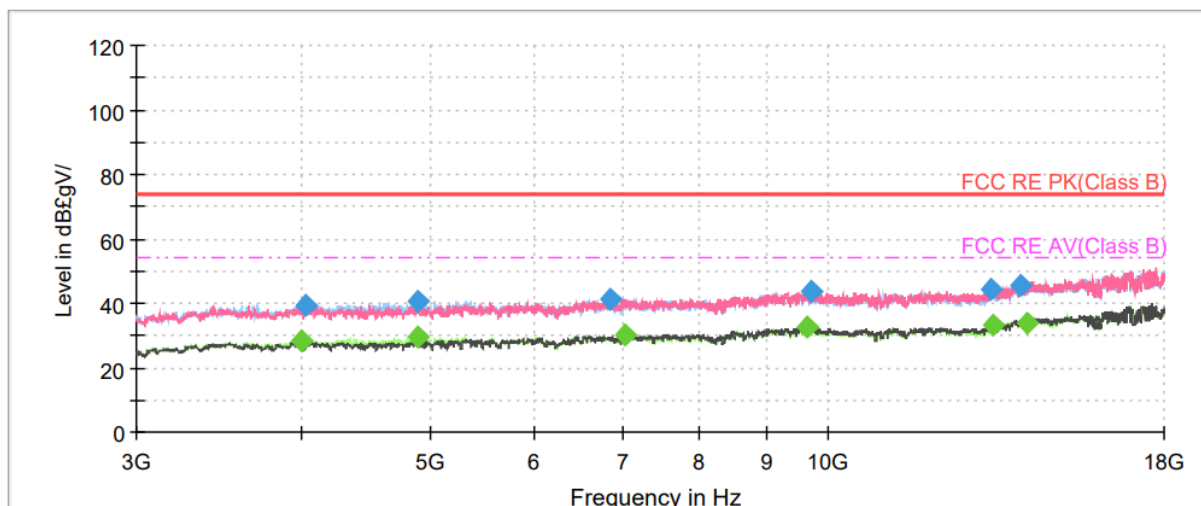


Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1179.750000	39.90	---	74.00	34.10	500.0	200.0	H	346.0	-9.2
1198.500000	---	28.67	54.00	25.33	500.0	200.0	V	122.0	-8.8
1327.750000	41.03	---	74.00	32.97	500.0	100.0	V	181.0	-8.0
1437.500000	---	30.05	54.00	23.95	500.0	100.0	H	279.0	-7.3
1656.750000	42.65	---	74.00	31.35	500.0	100.0	V	172.0	-6.1
1709.750000	---	31.35	54.00	22.65	500.0	100.0	H	81.0	-5.9
2069.750000	44.12	---	74.00	29.88	500.0	100.0	V	90.0	-4.0
2076.000000	---	32.83	54.00	21.17	500.0	200.0	H	303.0	-4.0
2290.250000	---	33.39	54.00	20.61	500.0	200.0	H	75.0	-2.9
2291.000000	44.91	---	74.00	29.09	500.0	100.0	H	40.0	-2.9
2868.000000	47.25	---	74.00	26.75	500.0	200.0	V	73.0	-1.1
2907.750000	---	35.78	54.00	18.22	500.0	100.0	V	241.0	-1.0

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Final Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4006.875000	---	28.41	54.00	25.59	500.0	100.0	H	54.0	-6.8
4031.250000	39.33	---	74.00	34.67	500.0	100.0	H	157.0	-6.8
4903.125000	---	29.42	54.00	24.58	500.0	200.0	H	323.0	-5.4
4905.000000	40.86	---	74.00	33.14	500.0	100.0	V	151.0	-5.4
6853.125000	41.49	---	74.00	32.51	500.0	200.0	H	44.0	-3.2
7031.250000	---	30.31	54.00	23.69	500.0	100.0	V	58.0	-3.1
9648.750000	---	32.47	54.00	21.53	500.0	100.0	V	331.0	-0.5
9740.625000	43.65	---	74.00	30.35	500.0	100.0	V	206.0	-0.6
13288.125000	44.18	---	74.00	29.82	500.0	100.0	V	283.0	2.3
13351.875000	---	33.28	54.00	20.72	500.0	200.0	V	321.0	2.4
13998.750000	45.67	---	74.00	28.33	500.0	100.0	V	104.0	3.9
14163.750000	---	33.94	54.00	20.06	500.0	200.0	H	139.0	4.0

Radiates Emission from 3GHz to 18GHz

1.4. Wi-Fi 5GHz

The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

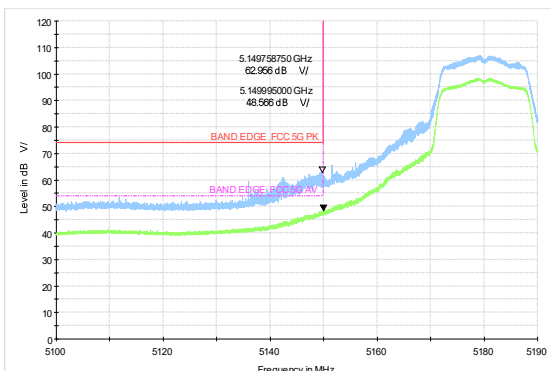
A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

A symbol (dB V/) in the test plot below means ($\text{dB}\mu\text{V/m}$)

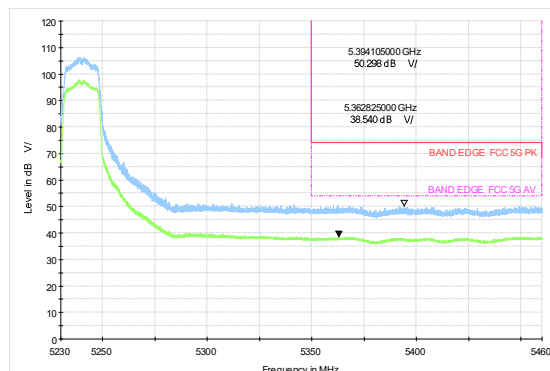
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

The signal beyond the limit is carrier.

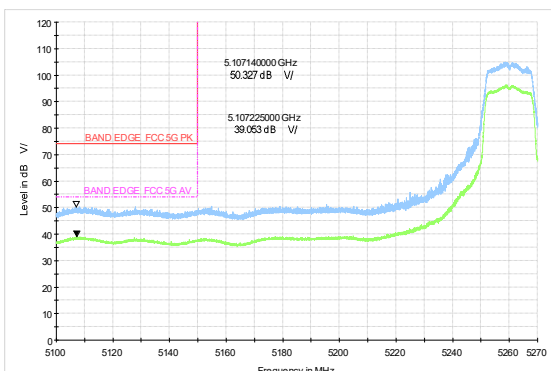
Antenna 1



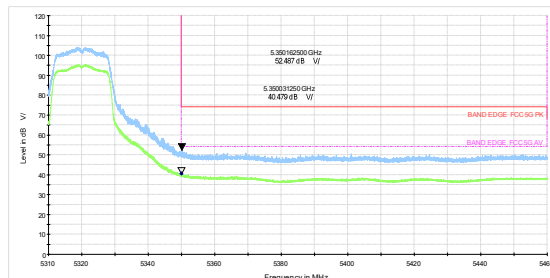
802.11a-Channel 36: Peak + Average



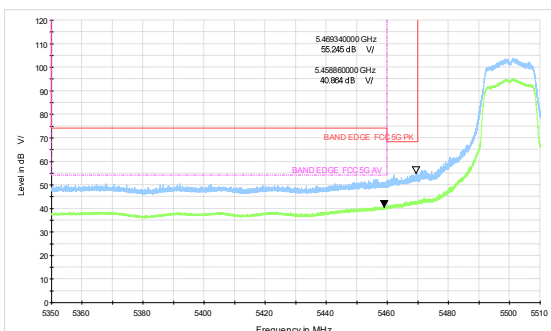
802.11a-Channel 48: Peak + Average



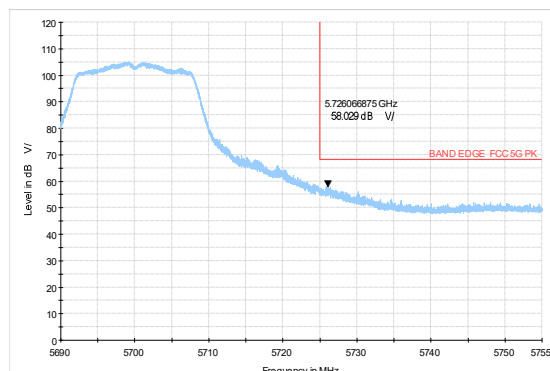
802.11a-Channel 52: Peak + Average



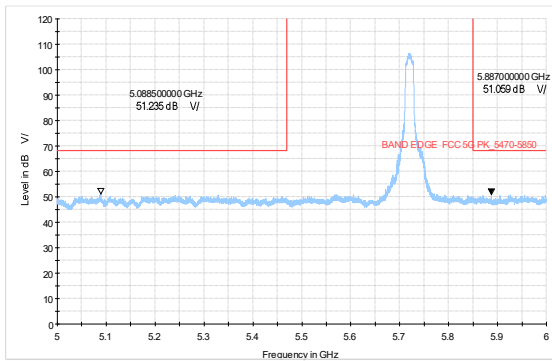
802.11a-Channel 64: Peak + Average



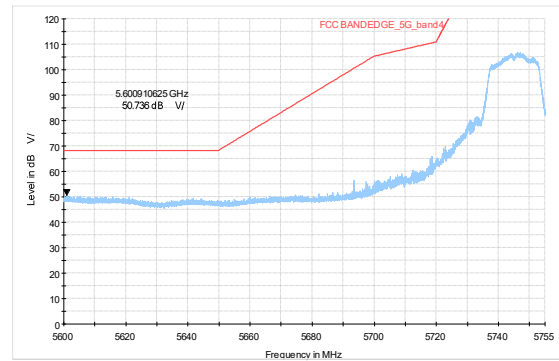
802.11a-Channel 100: Peak + Average



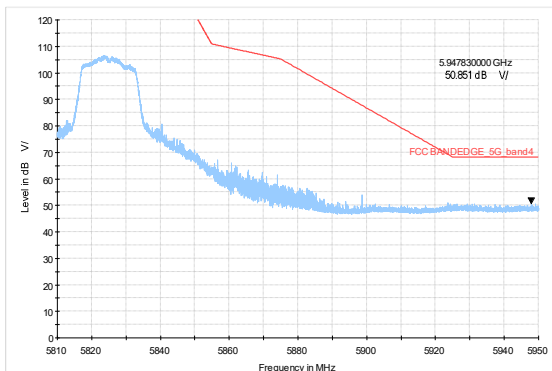
802.11a-Channel 140: Peak



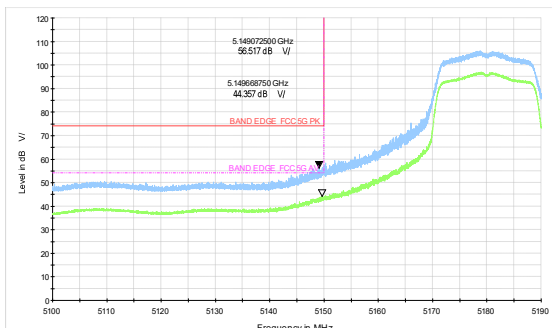
802.11a-Channel 144: Peak



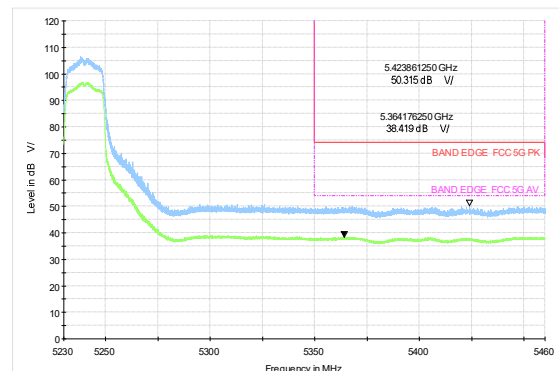
802.11a-Channel 149: Peak



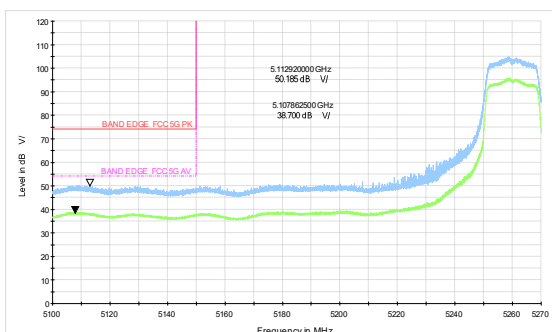
802.11a-Channel 165: Peak



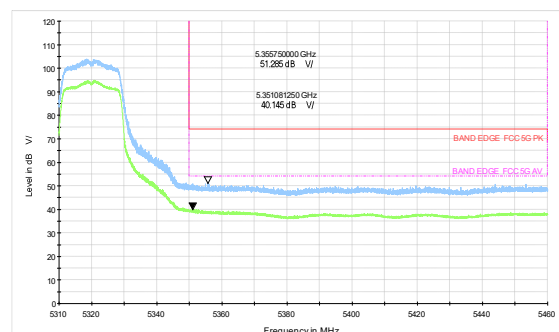
802.11n HT20-Channel 36: Peak + Average



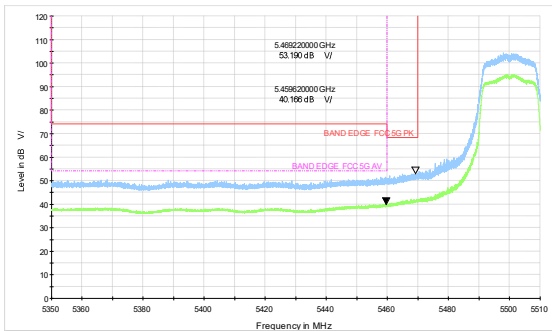
802.11n HT20-Channel 48: Peak + Average



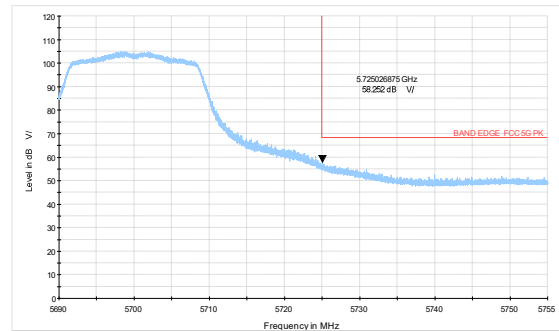
802.11n HT20-Channel 52: Peak + Average



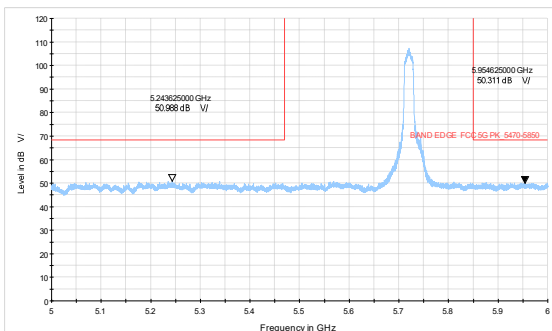
802.11n HT20-Channel 64: Peak + Average



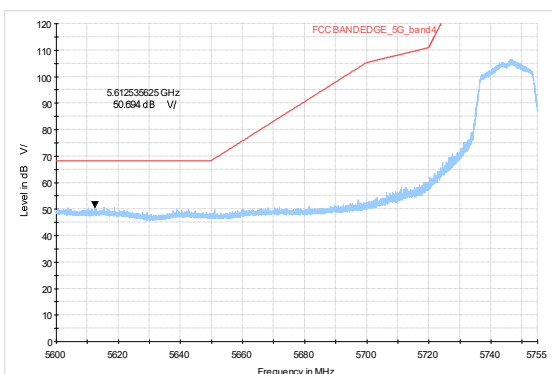
802.11n HT20-Channel 100: Peak + Average



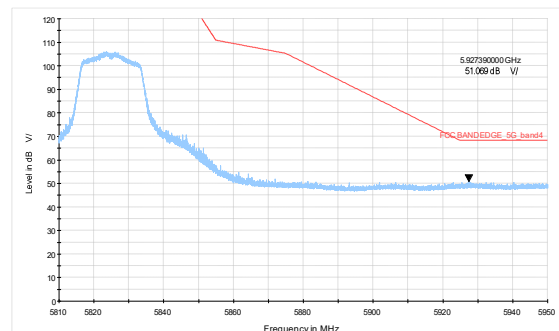
802.11n HT20-Channel 140: Peak



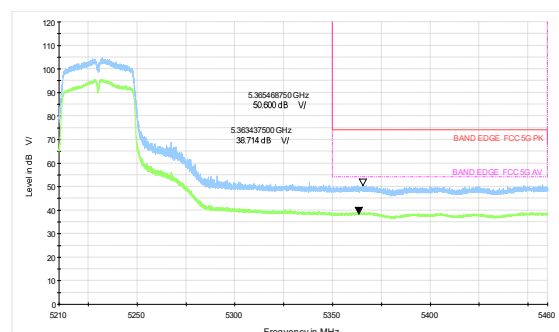
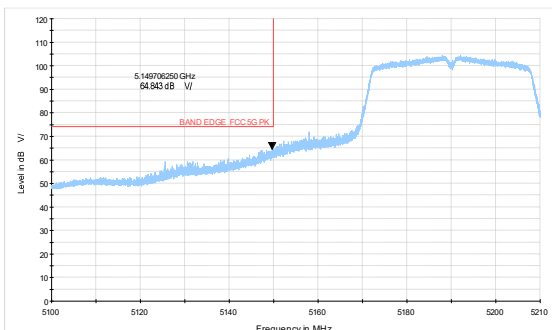
802.11n HT20-Channel 144: Peak



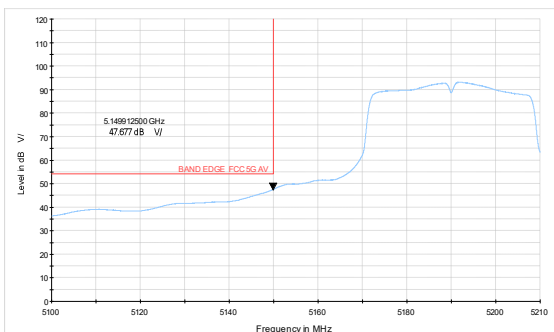
802.11n HT20-Channel 149: Peak



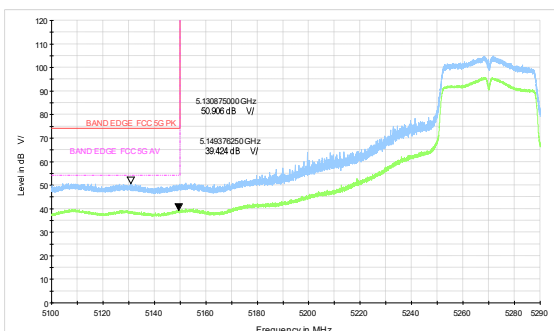
802.11n HT20-Channel 165: Peak



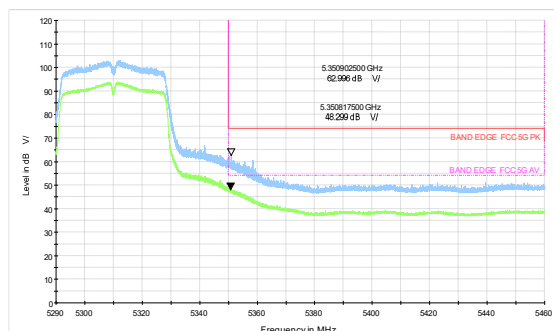
802.11n HT40-Channel 46: Peak + Average



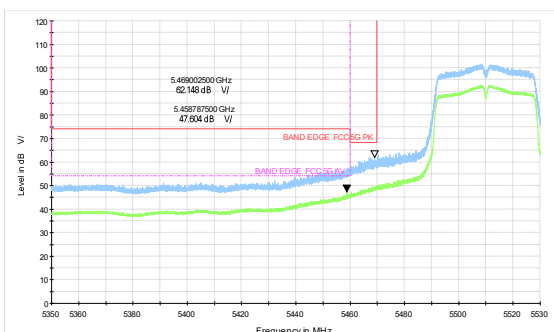
802.11n HT40-Channel 38: Peak + Average



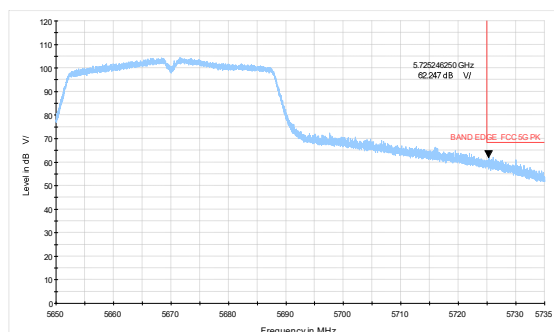
802.11n HT40-Channel 54: Peak + Average



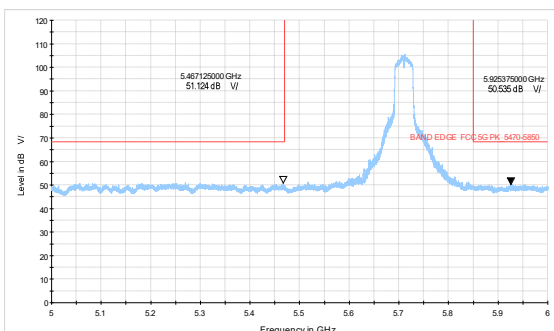
802.11n HT40-Channel 62: Peak + Average



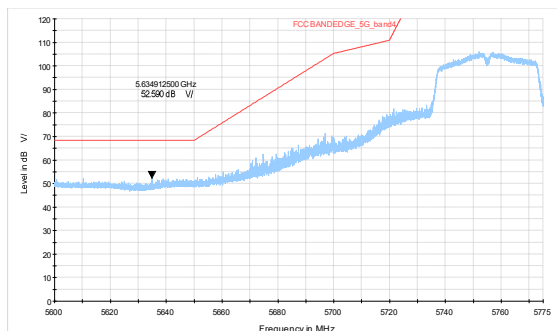
802.11n HT40-Channel 102: Peak + Average



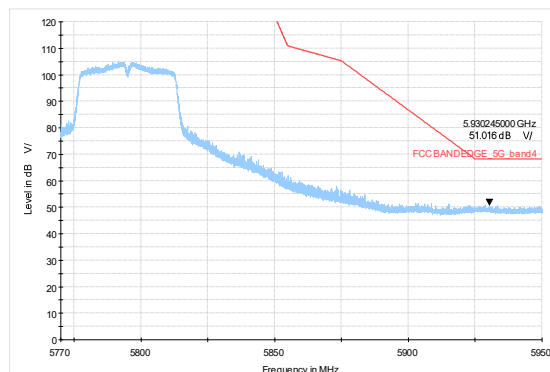
802.11n HT40-Channel 134: Peak



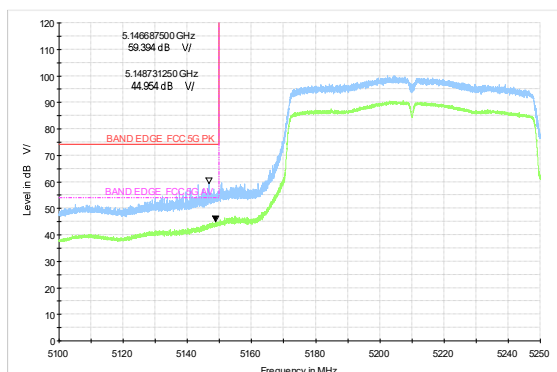
802.11n HT40-Channel 142: Peak



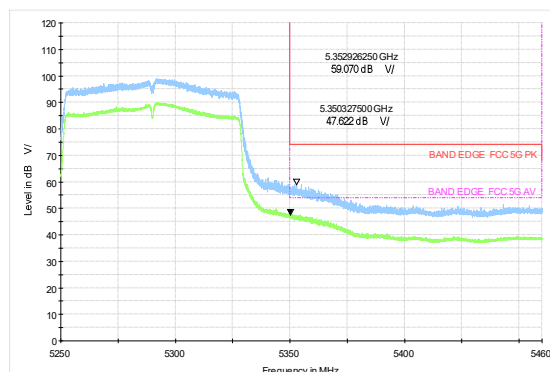
802.11n HT40-Channel 151: Peak



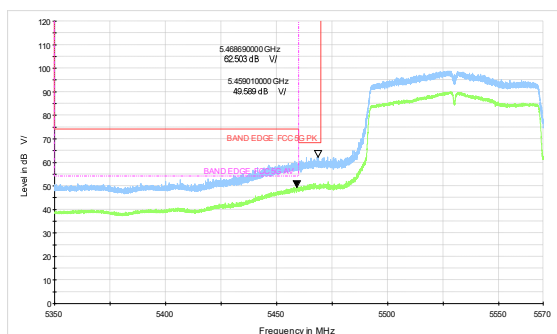
802.11n HT40-Channel 159: Peak



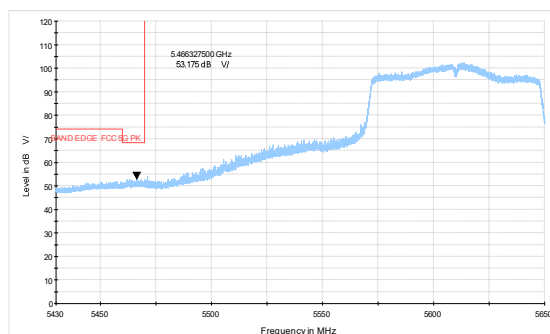
802.11ac VHT80 -Channel 42: Peak + Average



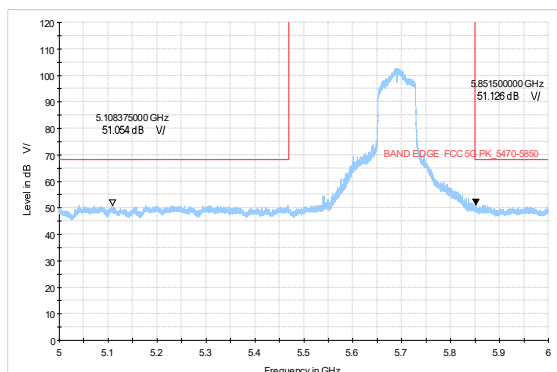
802.11ac VHT80 -Channel 58: Peak + Average



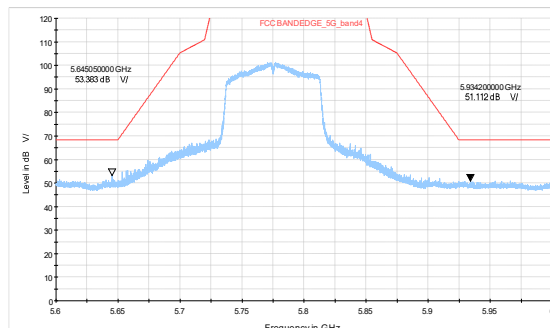
802.11ac VHT80-Channel 106: Peak + Average



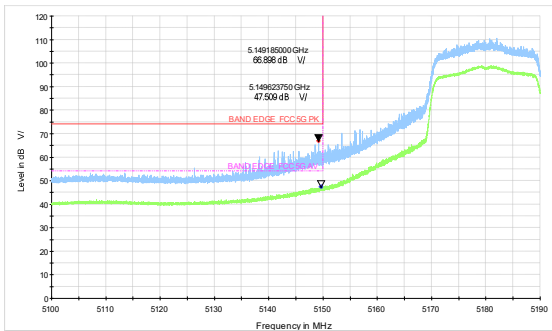
802.11ac VHT80- Channel 122: Peak



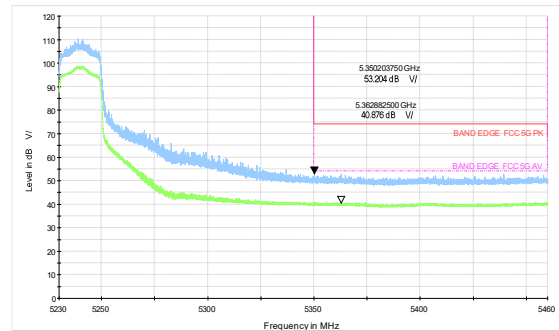
802.11ac VHT80-Channel 138: Peak + Average



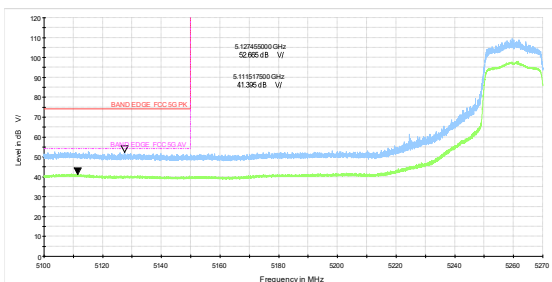
802.11ac VHT80- Channel 155: Peak



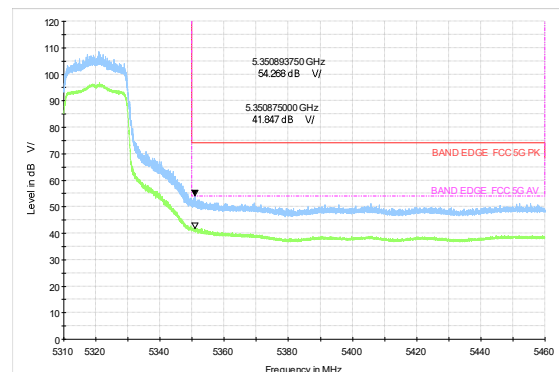
802.11ax HE20 -Channel 36: Peak + Average



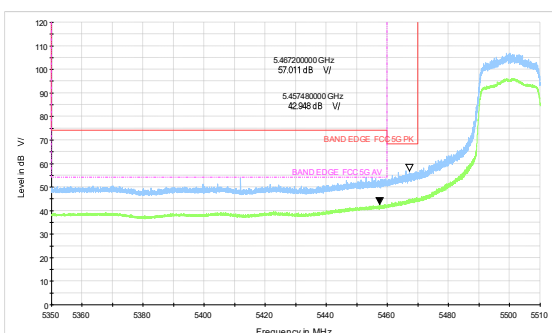
802.11ax HE20 -Channel 48: Peak + Average



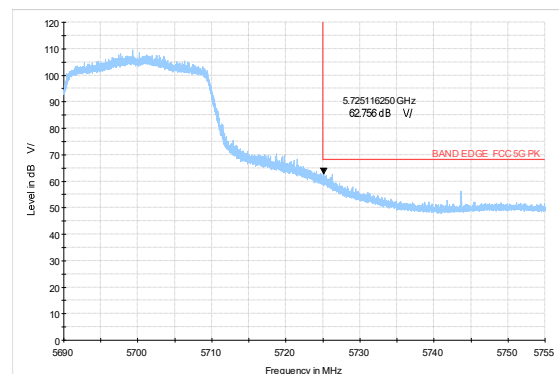
802.11ax HE20 -Channel 52: Peak + Average



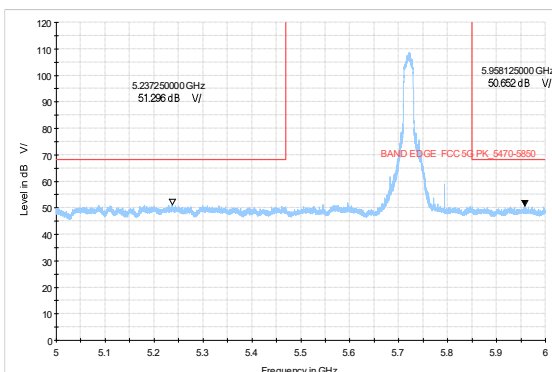
802.11ax HE20 -Channel 64: Peak + Average



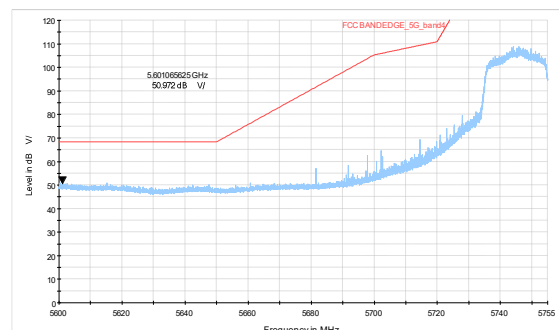
802.11ax HE20 -Channel 100: Peak + Average



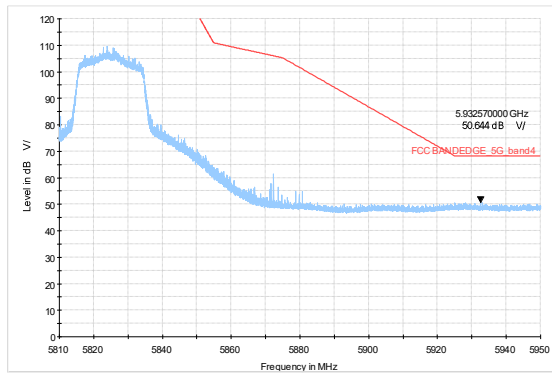
802.11ax HE20 -Channel 140: Peak



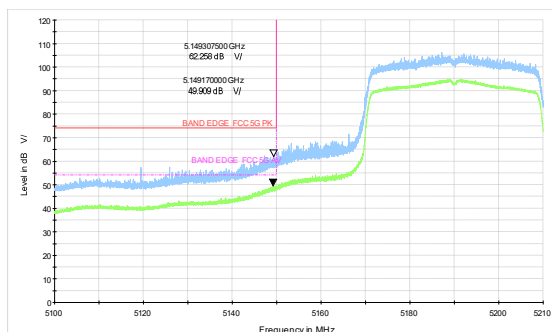
802.11ax HE20 -Channel 144: Peak



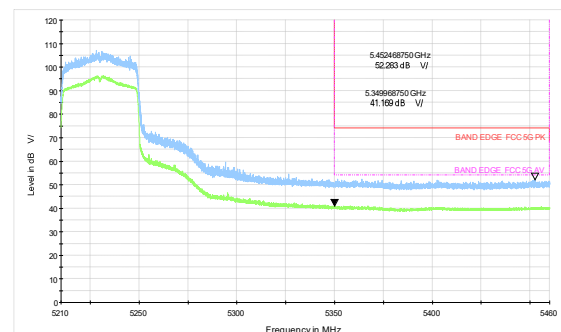
802.11ax HE20 -Channel 149: Peak



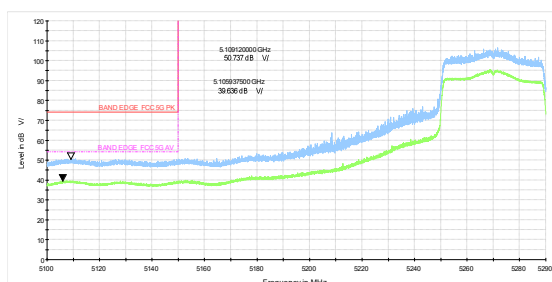
802.11ax HE20-Channel 165: Peak



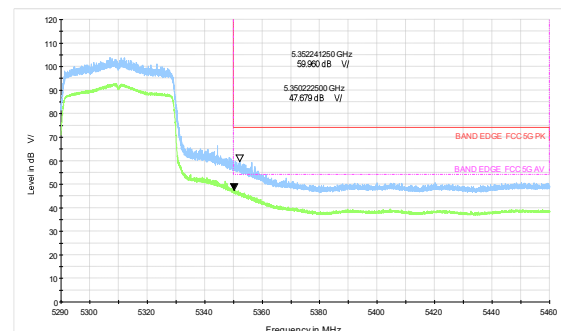
802.11ax HE40-Channel 38: Peak + Average



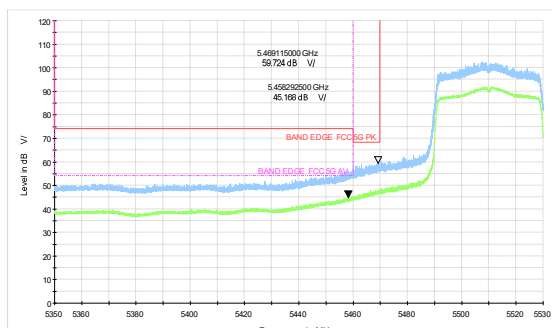
802.11ax HE40-Channel 46: Peak + Average



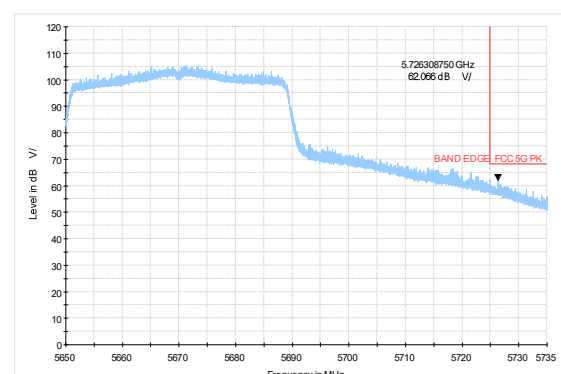
802.11ax HE40-Channel 54: Peak + Average



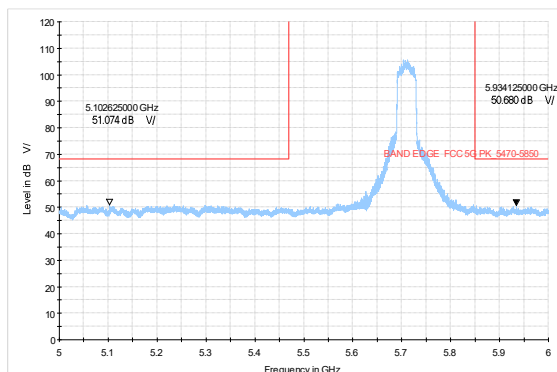
802.11ax HE40-Channel 62: Peak + Average



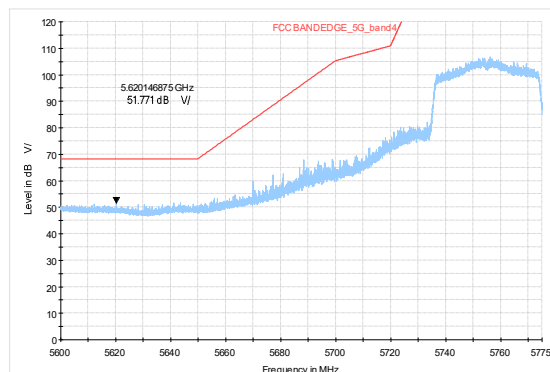
802.11ax HE40-Channel 102: Peak + Average



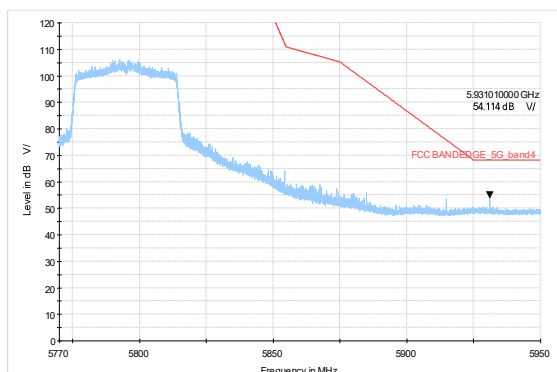
802.11ax HE40-Channel 134: Peak



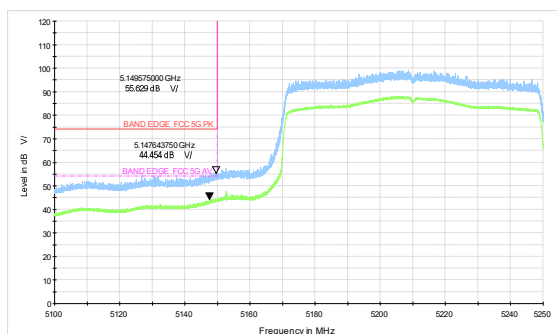
802.11ax HE40-Channel 142: Peak



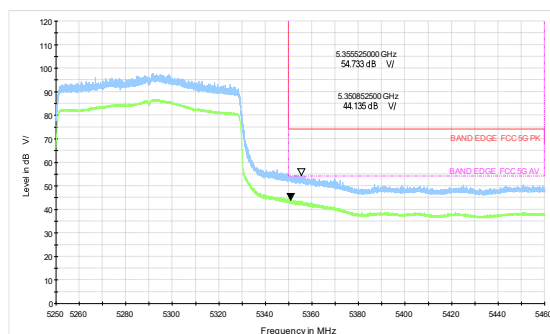
802.11ax HE40-Channel 151: Peak



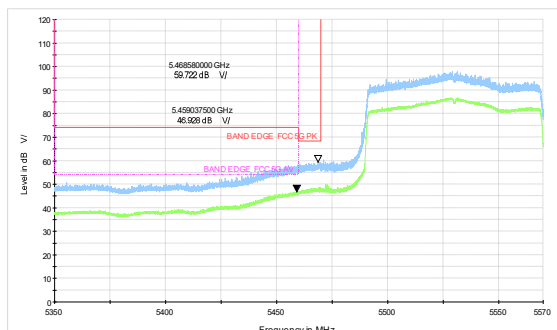
802.11ax HE40-Channel 159: Peak



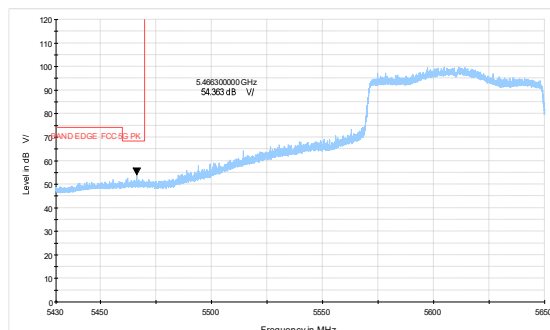
802.11ax HE80 -Channel 42: Peak + Average



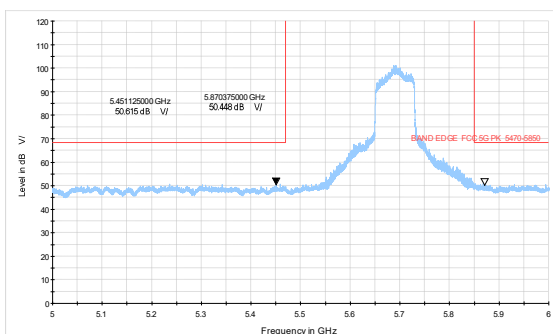
802.11ax HE80 -Channel 58: Peak + Average



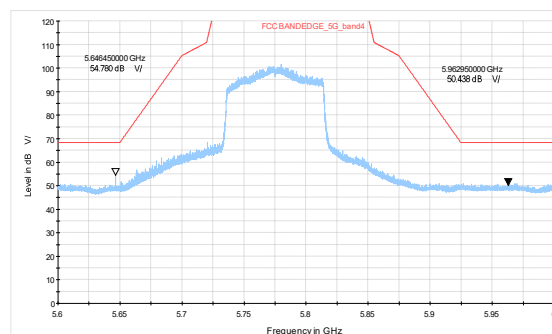
802.11ax HE80-Channel 106: Peak + Average



802.11ax HE80- Channel 122: Peak



802.11ax HE80-Channel 138: Peak



802.11ax HE80- Channel 155: Peak