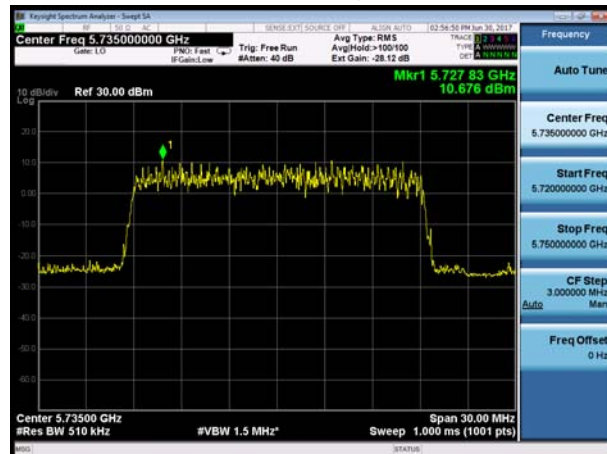




TM2

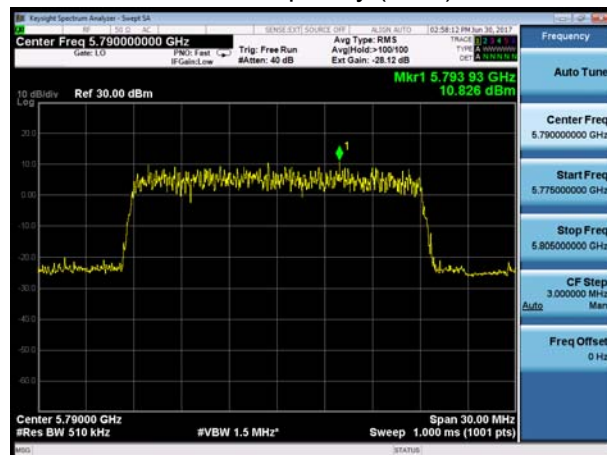
Antenna 1, Frequency (MHz): 5735



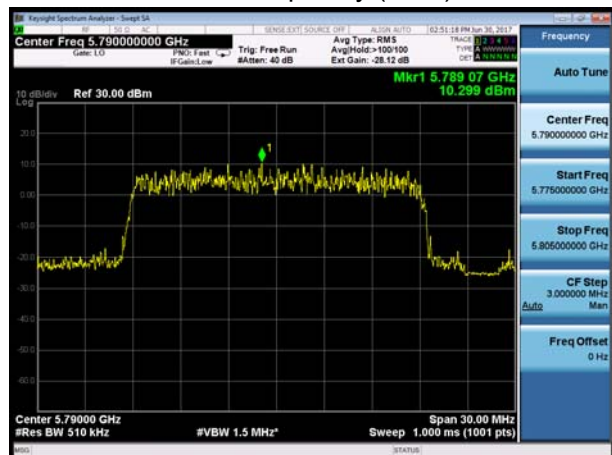
Antenna 2, Frequency (MHz): 5735



Antenna 1, Frequency (MHz): 5790



Antenna 2, Frequency (MHz): 5790



Antenna 1, Frequency (MHz): 5840

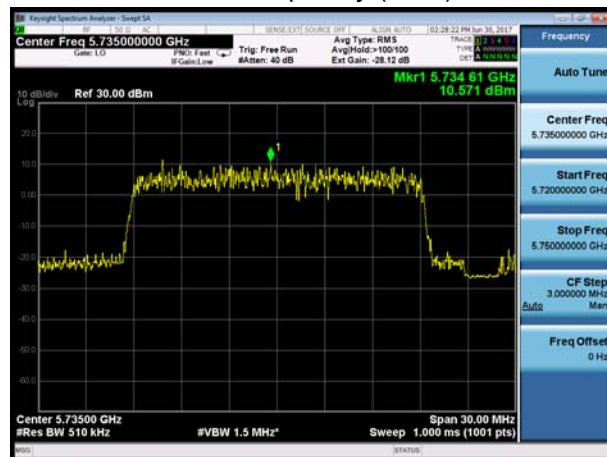


Antenna 2, Frequency (MHz): 5840





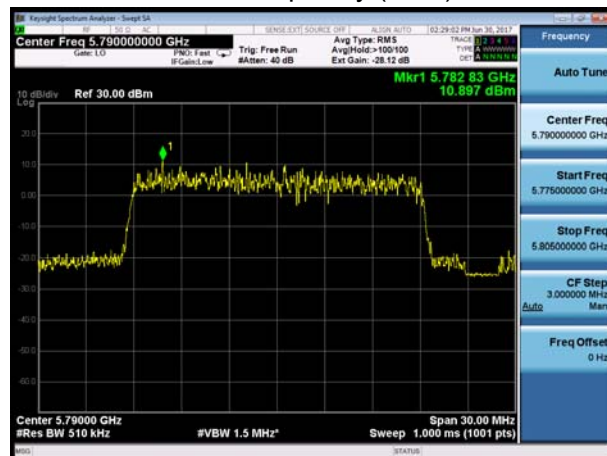
Antenna 3, Frequency (MHz): 5735



Antenna 4, Frequency (MHz): 5735



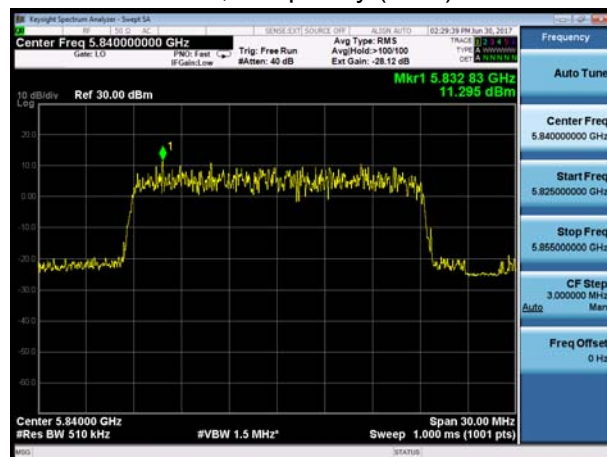
Antenna 3, Frequency (MHz): 5790



Antenna 4, Frequency (MHz): 5790



Antenna 3, Frequency (MHz): 5840



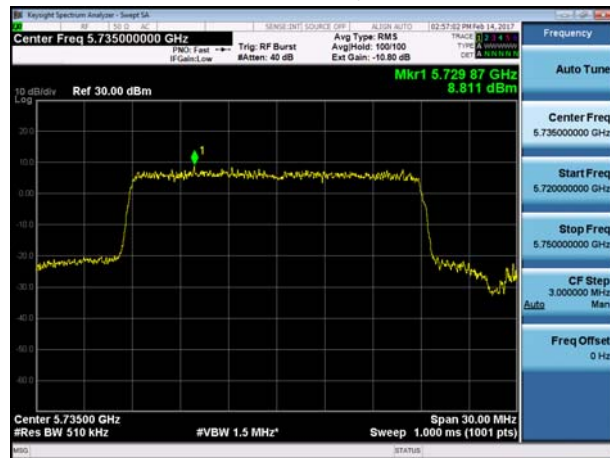
Antenna 4, Frequency (MHz): 5840





TM3

Antenna 1, Frequency (MHz): 5735



Antenna 2, Frequency (MHz): 5735



Antenna 1, Frequency (MHz): 5790



Antenna 2, Frequency (MHz): 5790



Antenna 1, Frequency (MHz): 5840

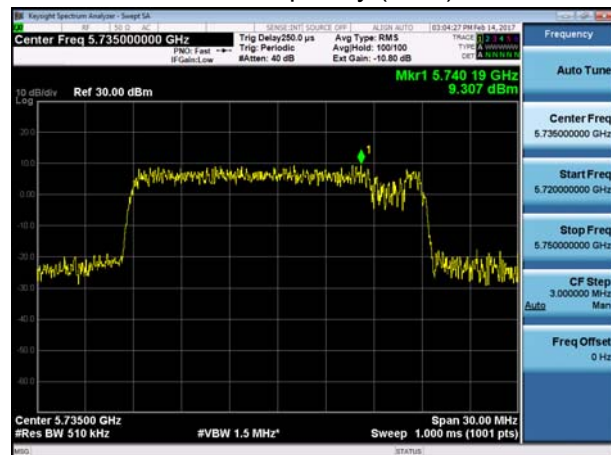


Antenna 2, Frequency (MHz): 5840





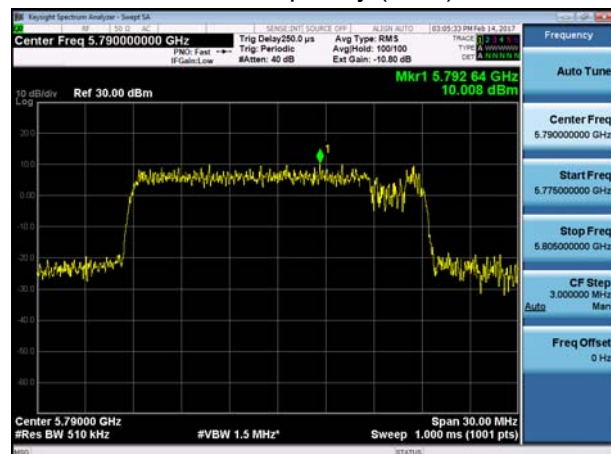
Antenna 3, Frequency (MHz): 5735



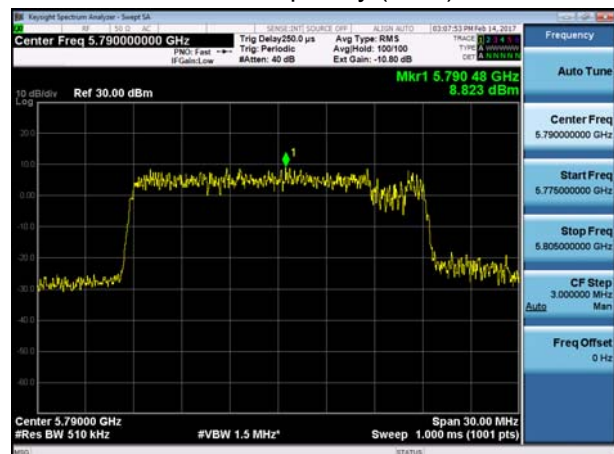
Antenna 4, Frequency (MHz): 5735



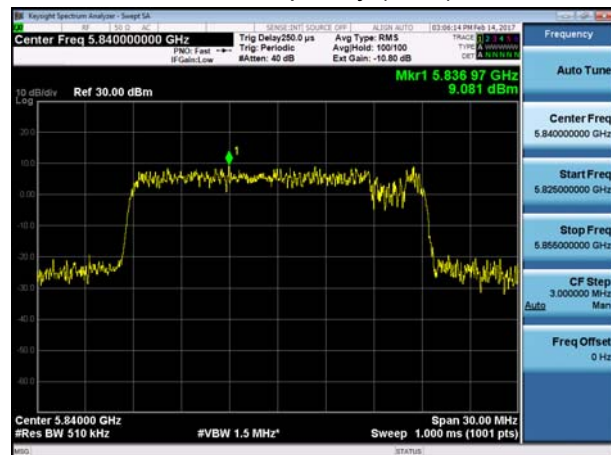
Antenna 3, Frequency (MHz): 5790



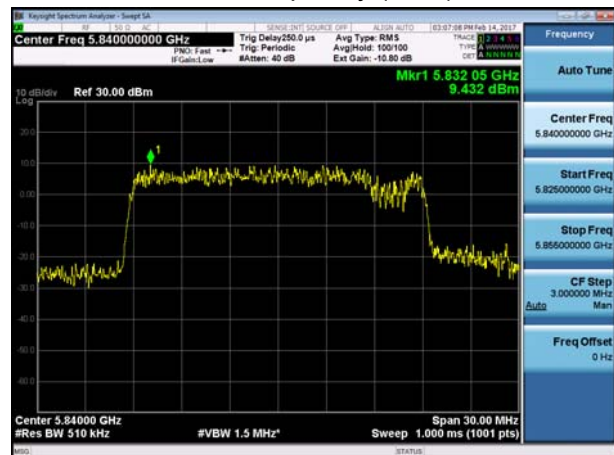
Antenna 4, Frequency (MHz): 5790



Antenna 3, Frequency (MHz): 5840



Antenna 4, Frequency (MHz): 5840



5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Radiated Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

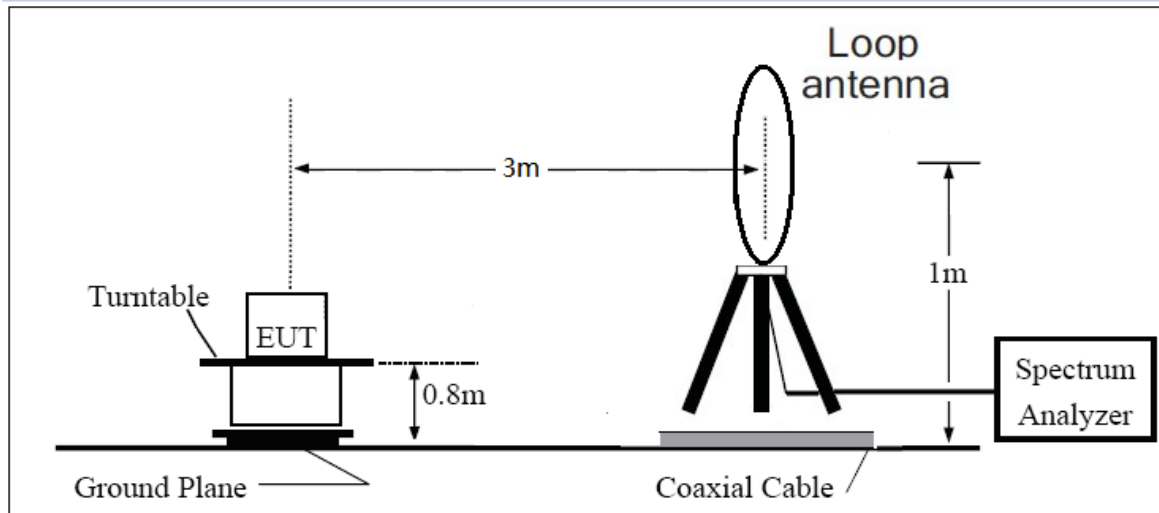
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

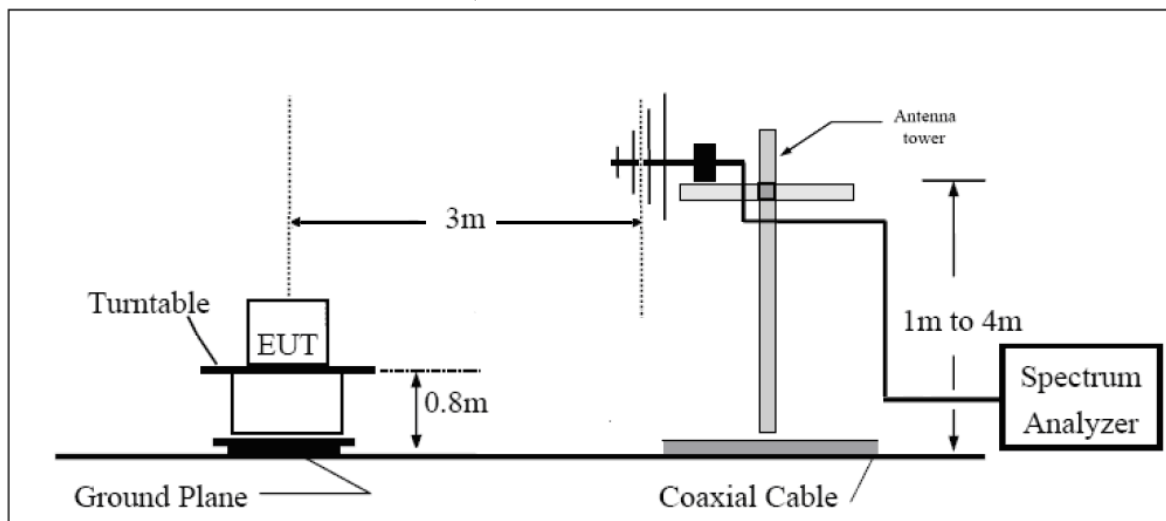
In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. TM3 data rate below means worst-case rate of each test item.

The test is in transmitting mode.

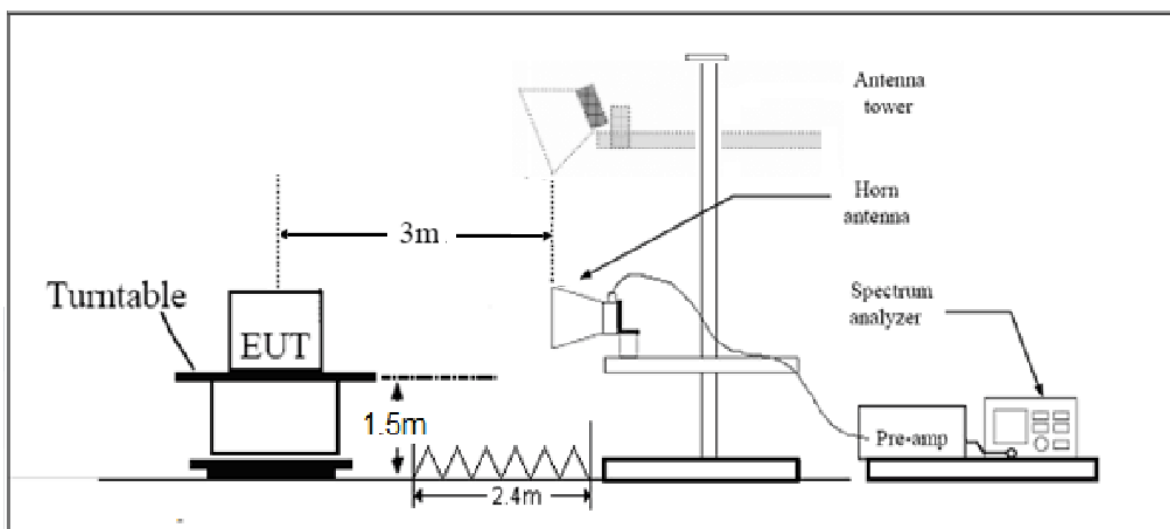
9KHz~~~30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

FCC §407 (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

For transmitters operating in the 5725-5850 MHz 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.

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

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

(1) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

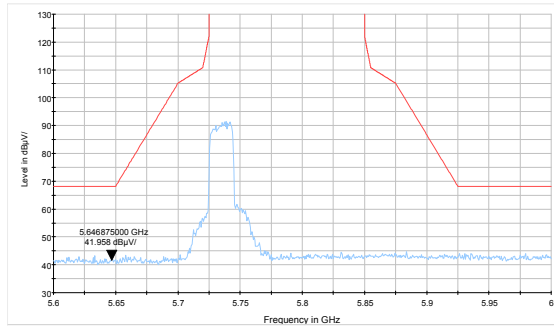
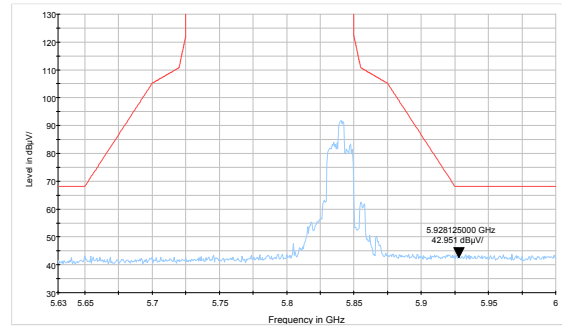
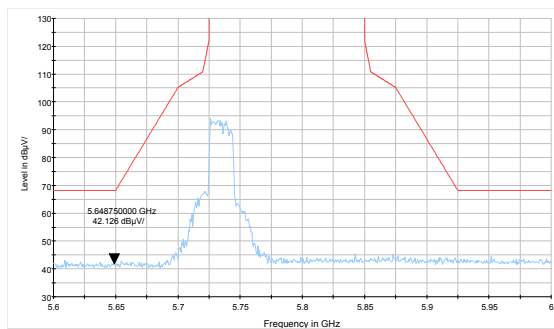
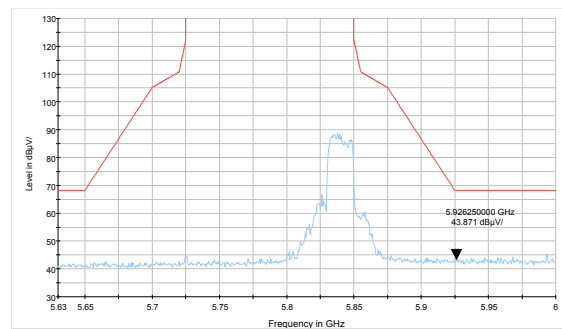
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

**Radiated Test Results:****TM3**

The signal beyond the limit is carrier.

MIMO Antenna 1&2**Frequency 5735MHz****Frequency 5840MHz****MIMO antenna 3&4****Frequency 5735MHz****Frequency 5840MHz**

Result of RE

Test result

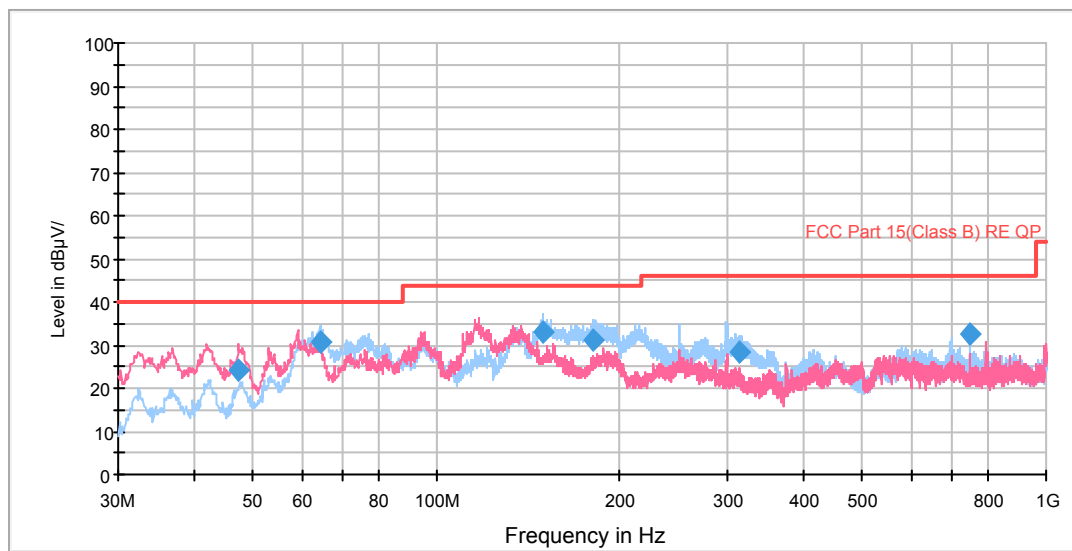
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and 9kHz-30MHz, the emissions more than 20 dB below the permissible value are not reported.

TM3

MIMO Antenna 1&2

5735MHz

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

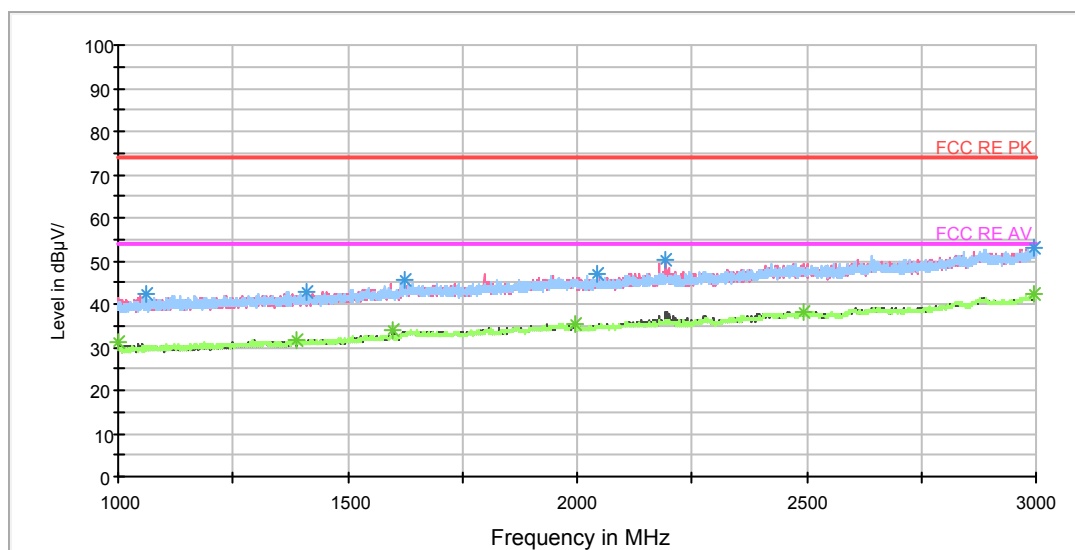
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
47.335544	24.0	121.0	V	100.0	44.3	-20.3	16.0	40.0
64.472966	30.9	130.0	H	22.0	54.6	-23.7	9.1	40.0
149.440169	33.1	130.0	H	146.0	62.3	-29.2	10.4	43.5
180.699125	31.2	130.0	H	341.0	59.3	-28.1	12.3	43.5
313.343750	28.2	101.0	H	291.0	51.3	-23.1	17.8	46.0
749.987500	32.8	101.0	H	136.0	48.2	-15.4	13.2	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

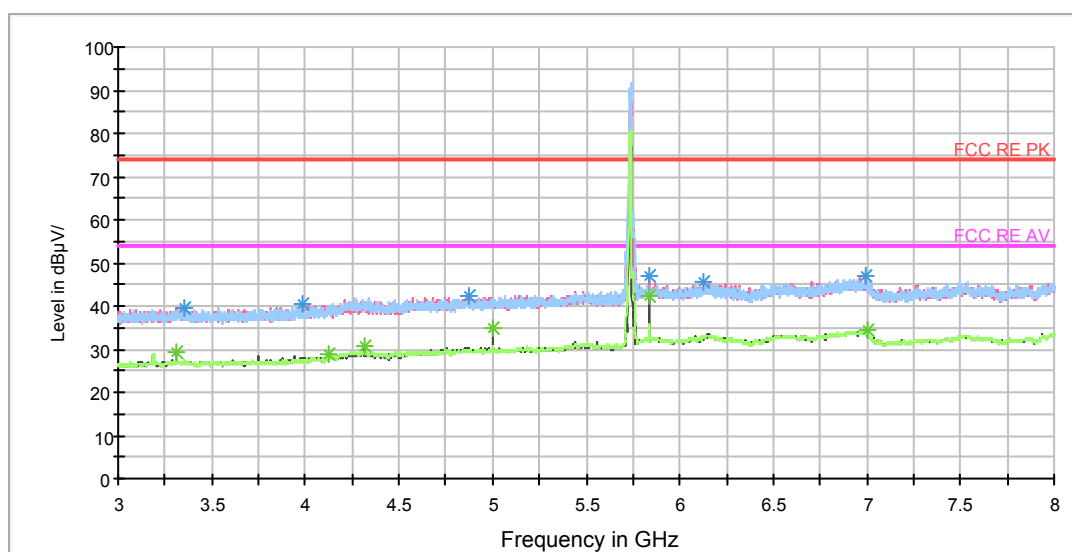
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1062.250000	42.2	104.0	H	53.0	51.1	-8.9	31.8	74
1410.250000	42.9	104.0	V	0.0	50.0	-7.1	31.1	74
1623.000000	45.7	104.0	H	17.0	50.5	-4.8	28.3	74
2043.500000	46.9	104.0	H	17.0	50.1	-3.2	27.1	74
2193.000000	50.1	104.0	V	181.0	52.2	-2.1	23.9	74
2995.000000	53.2	104.0	V	212.0	50.9	2.3	20.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.250000	31.3	104.0	V	190.0	40.5	-9.2	22.7	54
1389.000000	31.8	104.0	H	53.0	38.8	-7.0	22.2	54
1599.750000	34.1	104.0	V	283.0	40.5	-6.4	19.9	54
1997.750000	35.6	104.0	V	212.0	38.9	-3.3	18.4	54
2492.000000	38.3	104.0	H	0.0	38.0	0.3	15.7	54
2994.000000	42.4	104.0	H	79.0	40.1	2.3	11.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

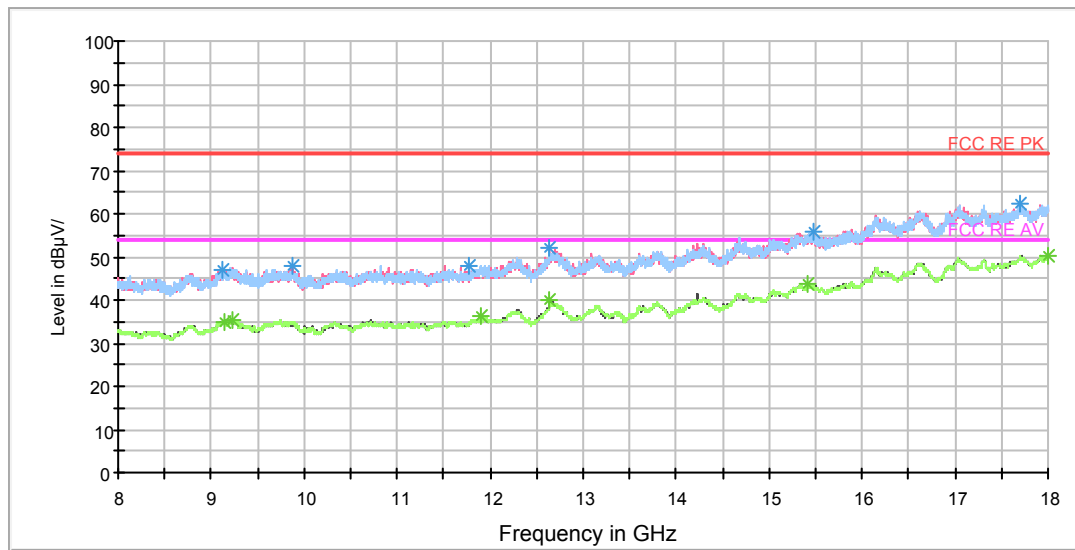
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3353.750000	39.6	105.0	H	83.0	41.9	-2.3	34.4	74
3981.875000	40.6	105.0	V	0.0	41.6	-1.0	33.4	74
4873.750000	42.2	105.0	H	8.0	40.4	1.8	31.8	74
5840.000000	47.1	105.0	V	340.0	42.6	4.5	26.9	74
6123.750000	45.7	105.0	V	20.0	40.3	5.4	28.3	74
6996.250000	46.8	105.0	V	266.0	40.3	6.5	27.2	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3312.500000	29.4	105.0	V	0.0	31.5	-2.1	24.6	54
4125.000000	28.9	105.0	V	131.0	29.3	-0.4	25.1	54
4312.500000	30.7	105.0	V	0.0	30.1	0.6	23.3	54
5000.000000	35.0	105.0	V	340.0	33.4	1.6	19.0	54
5840.000000	42.4	105.0	V	340.0	37.9	4.5	11.6	54
6999.375000	34.3	105.0	H	133.0	27.8	6.5	19.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV(YIPU)



Radiates Emission from 8GHz to 18GHz

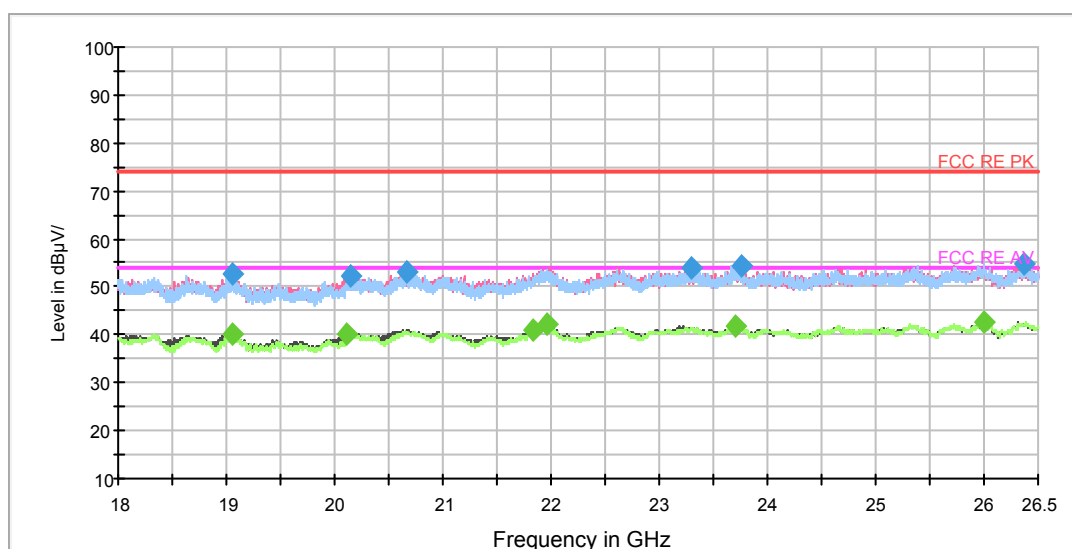
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9117.500000	46.9	105.0	H	0.0	36.9	10.0	27.1	74
9878.750000	47.7	106.0	V	161.0	37.4	10.3	26.3	74
11781.250000	48.1	105.0	H	0.0	36.6	11.5	25.9	74
12642.500000	52.1	205.0	V	226.0	37.6	14.5	21.9	74
15468.750000	55.9	205.0	V	281.0	36.2	19.7	18.1	74
17705.000000	62.1	205.0	H	0.0	37.4	24.7	11.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9151.250000	35.1	205.0	H	0.0	24.9	10.2	18.9	54
9232.500000	35.5	106.0	V	0.0	25.6	9.9	18.5	54
11898.750000	36.3	205.0	H	0.0	24.0	12.3	17.7	54
12638.750000	39.8	106.0	V	0.0	25.4	14.4	14.2	54
15417.500000	43.7	105.0	H	7.0	24.4	19.3	10.3	54
17997.500000	50.4	106.0	V	269.0	25.0	25.4	3.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

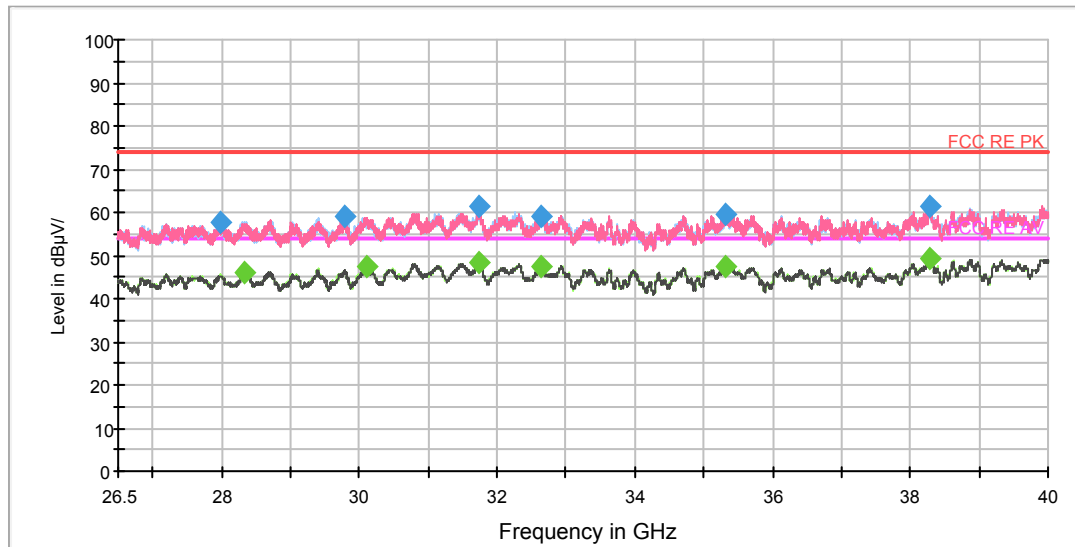
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19059.312500	52.9	V	157.0	58.1	-5.2	21.1	74.0
20150.500000	52.4	V	157.0	58.2	-5.8	21.6	74.0
20662.625000	53.0	V	183.0	59.6	-6.6	21.0	74.0
23289.125000	53.8	V	0.0	59.8	-6.0	20.2	74.0
23751.312500	54.6	H	0.0	60.5	-5.9	19.4	74.0
26371.437500	54.9	V	0.0	60.3	-5.4	19.1	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19058.250000	40.1	V	261.0	45.3	-5.2	13.9	54.0
20115.437500	40.1	V	129.0	45.9	-5.8	13.9	54.0
21837.750000	41.0	V	338.0	49.0	-8.0	13.0	54.0
21959.937500	42.3	V	104.0	50.3	-8.0	11.7	54.0
23699.250000	41.9	V	0.0	47.8	-5.9	12.1	54.0
25996.375000	42.7	V	0.0	48.1	-5.4	11.3	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
27978.250000	57.9	H	214.0	59.6	-1.7	16.1	74.0
29788.937500	59.2	V	0.0	59.8	-0.6	14.8	74.0
31738.000000	61.3	H	69.0	61.8	-0.5	12.7	74.0
32640.812500	59.2	H	359.0	59.9	-0.7	14.8	74.0
35312.125000	59.5	H	238.0	60.0	-0.5	14.5	74.0
38295.625000	61.3	V	193.0	59.3	2.0	12.7	74.0

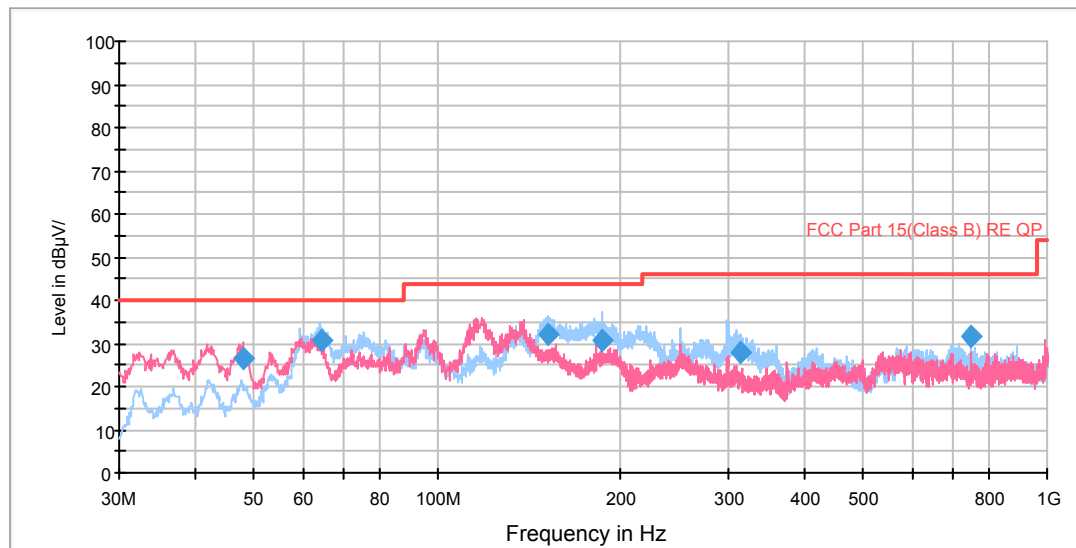
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28336.000000	46.0	H	0.0	47.5	-1.5	8.0	54.0
30106.187500	47.2	H	0.0	47.6	-0.4	6.8	54.0
31729.562500	48.5	H	214.0	49.0	-0.5	5.5	54.0
32650.937500	47.6	H	0.0	48.3	-0.7	6.4	54.0
35302.000000	47.6	V	52.0	48.1	-0.5	6.4	54.0
38285.500000	49.1	V	0.0	47.1	2.0	4.9	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5790MHz

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

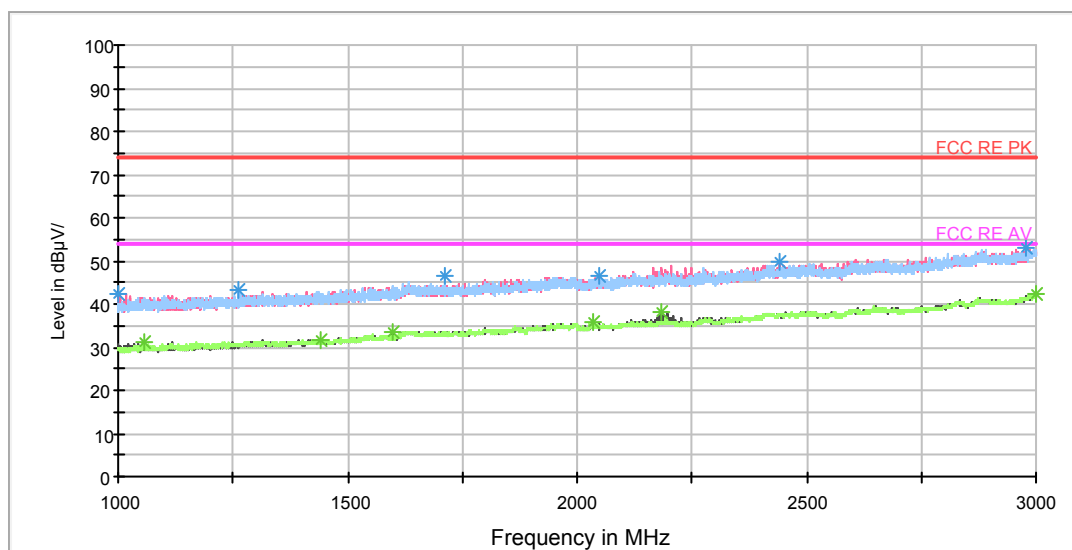
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
47.824190	26.7	101.0	V	83.0	46.9	-20.2	13.3	40.0
64.352981	30.9	130.0	H	25.0	54.6	-23.7	9.1	40.0
151.513769	31.9	130.0	H	62.0	61.1	-29.2	11.6	43.5
186.827416	30.5	130.0	H	356.0	57.9	-27.4	13.0	43.5
314.229250	28.1	105.0	H	291.0	51.3	-23.2	17.9	46.0
749.987500	31.9	103.0	H	139.0	47.3	-15.4	14.1	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

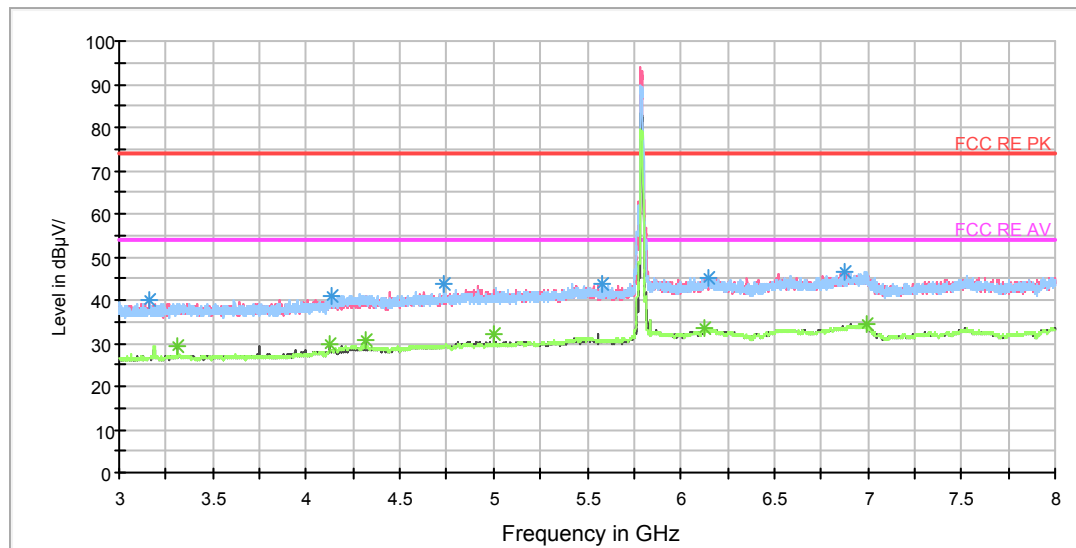
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1002.000000	42.3	104.0	V	202.0	51.5	-9.2	31.7	74
1263.000000	43.1	104.0	H	0.0	50.8	-7.7	30.9	74
1712.000000	46.3	104.0	H	12.0	51.1	-4.8	27.7	74
2047.500000	46.5	104.0	V	255.0	49.7	-3.2	27.5	74
2439.500000	49.6	104.0	V	326.0	50.0	-0.4	24.4	74
2978.500000	53.0	104.0	H	276.0	50.8	2.2	21.0	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1055.000000	31.1	104.0	H	47.0	40.1	-9.0	22.9	54
1441.500000	31.5	104.0	V	121.0	38.4	-6.9	22.5	54
1600.250000	33.7	104.0	V	166.0	40.1	-6.4	20.3	54
2036.750000	35.6	104.0	V	290.0	38.9	-3.3	18.4	54
2184.000000	38.3	104.0	V	183.0	40.5	-2.2	15.7	54
2999.250000	42.2	104.0	V	238.0	39.9	2.3	11.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

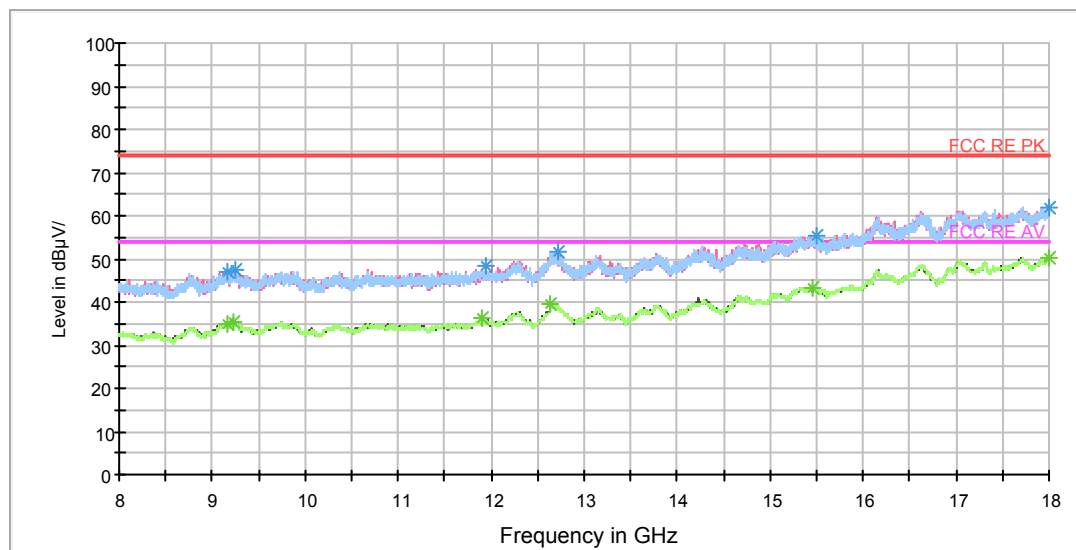
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3163.750000	40.0	105.0	V	252.0	42.9	-2.9	34.0	74
4132.500000	40.8	105.0	H	35.0	41.1	-0.3	33.2	74
4732.500000	43.6	105.0	H	8.0	42.8	0.8	30.4	74
5575.000000	43.8	105.0	H	0.0	40.4	3.4	30.2	74
6146.250000	45.1	105.0	V	0.0	39.6	5.5	28.9	74
6870.625000	46.6	105.0	H	8.0	40.7	5.9	27.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3312.500000	29.5	105.0	V	0.0	31.6	-2.1	24.5	54
4125.000000	29.6	105.0	V	152.0	30.0	-0.4	24.4	54
4312.500000	30.9	105.0	V	0.0	30.3	0.6	23.1	54
5000.000000	31.9	105.0	V	328.0	30.3	1.6	22.1	54
6131.250000	33.4	105.0	V	127.0	28.0	5.4	20.6	54
6998.750000	34.3	105.0	H	0.0	27.8	6.5	19.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV(YIPU)



Radiates Emission from 8GHz to 18GHz

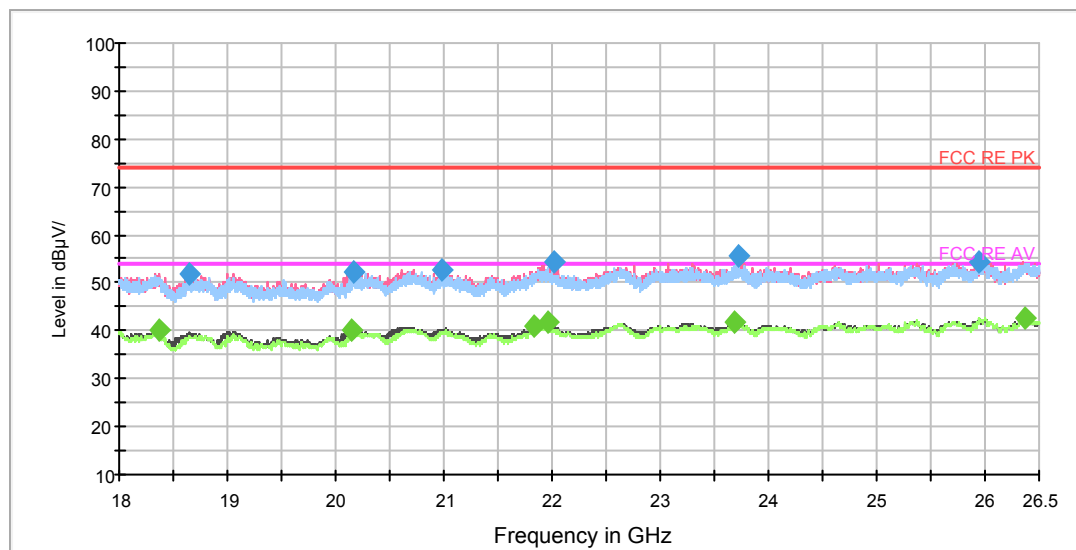
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9157.500000	46.8	105.0	V	325.0	36.5	10.3	27.2	74
9256.250000	47.3	105.0	H	38.0	37.8	9.5	26.7	74
11941.250000	48.2	105.0	V	0.0	36.4	11.8	25.8	74
12716.250000	51.5	105.0	H	200.0	37.6	13.9	22.5	74
15497.500000	55.5	105.0	V	0.0	36.1	19.4	18.5	74
17991.250000	62.0	105.0	H	38.0	36.8	25.2	12.0	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9153.750000	34.9	105.0	H	0.0	24.7	10.2	19.1	54
9237.500000	35.4	105.0	H	172.0	25.5	9.9	18.6	54
11901.250000	36.1	105.0	H	226.0	23.8	12.3	17.9	54
12640.000000	39.7	105.0	V	0.0	25.1	14.6	14.3	54
15448.750000	43.4	105.0	H	226.0	23.9	19.5	10.6	54
18000.000000	50.3	105.0	H	38.0	24.8	25.5	3.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

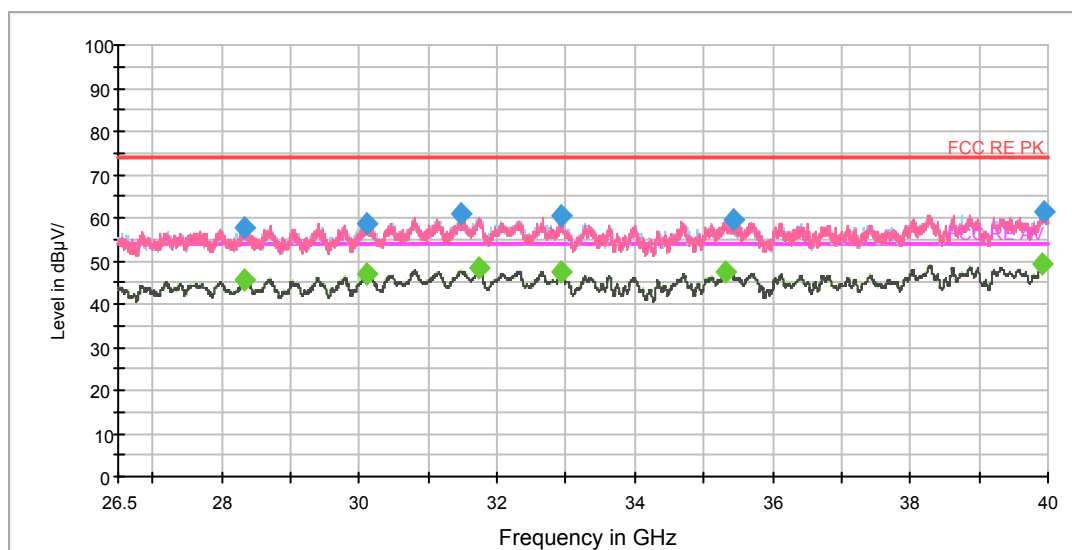
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18639.625000	52.0	V	0.0	56.2	-4.2	22.0	74.0
20164.312500	52.5	V	0.0	58.3	-5.8	21.5	74.0
20978.187500	52.7	V	340.0	60.1	-7.4	21.3	74.0
22020.500000	54.2	V	157.0	62.1	-7.9	19.8	74.0
23731.125000	55.5	V	0.0	61.4	-5.9	18.5	74.0
25948.562500	54.3	H	147.0	59.7	-5.4	19.7	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18369.750000	40.0	H	0.0	43.4	-3.4	14.0	54.0
20149.437500	40.1	V	157.0	45.9	-5.8	13.9	54.0
21837.750000	40.8	V	0.0	48.8	-8.0	13.2	54.0
21958.875000	41.9	V	0.0	49.9	-8.0	12.1	54.0
23688.625000	41.9	V	0.0	47.8	-5.9	12.1	54.0
26370.375000	42.7	V	340.0	48.1	-5.4	11.3	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28329.250000	57.7	V	290.0	59.2	-1.5	16.3	74.0
30096.062500	58.6	V	146.0	59.0	-0.4	15.4	74.0
31474.750000	60.8	V	217.0	61.3	-0.5	13.2	74.0
32939.500000	60.5	H	167.0	61.3	-0.8	13.5	74.0
35428.562500	59.4	V	290.0	59.9	-0.5	14.6	74.0
39934.187500	61.5	H	215.0	59.2	2.3	12.5	74.0

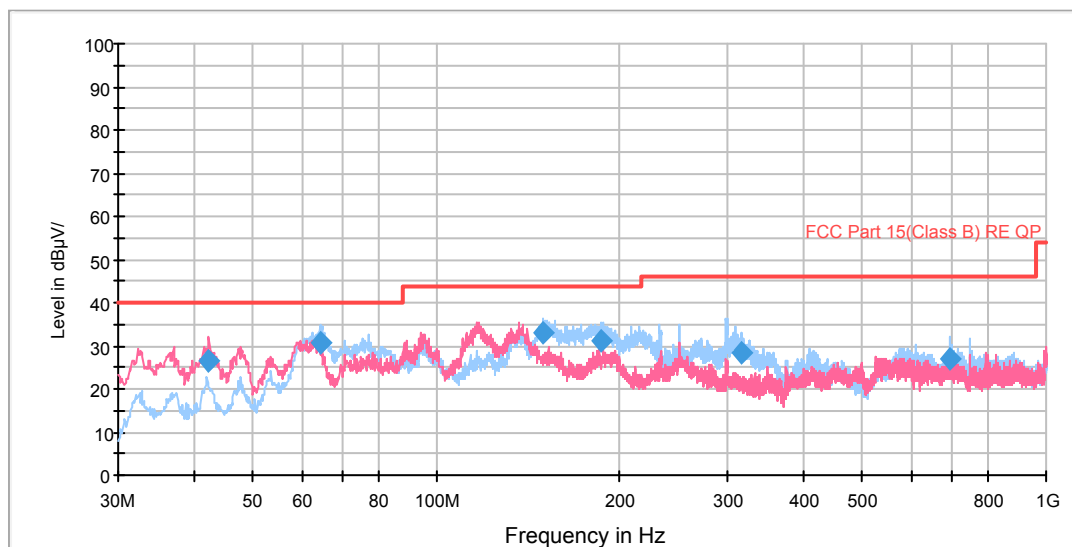
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28341.062500	45.6	V	0.0	47.1	-1.5	8.4	54.0
30102.812500	46.8	H	237.0	47.2	-0.4	7.2	54.0
31743.062500	48.4	H	284.0	48.9	-0.5	5.6	54.0
32939.500000	47.4	H	167.0	48.2	-0.8	6.6	54.0
35313.812500	47.5	H	142.0	48.0	-0.5	6.5	54.0
39900.437500	49.2	V	6.0	46.9	2.3	4.8	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5840MHz

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

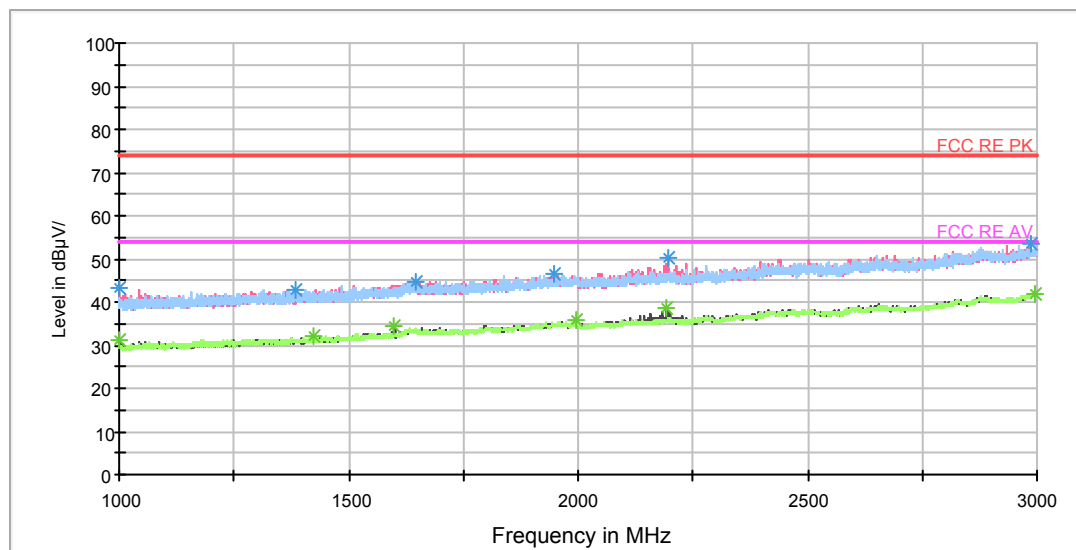
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
42.300634	26.7	121.0	V	73.0	47.1	-20.4	13.3	40.0
64.474535	30.9	130.0	H	22.0	54.6	-23.7	9.1	40.0
149.656725	33.1	130.0	H	149.0	62.3	-29.2	10.4	43.5
185.462681	30.9	130.0	H	334.0	58.3	-27.4	12.6	43.5
315.154000	28.2	105.0	H	289.0	51.4	-23.2	17.8	46.0
696.973750	27.1	103.0	H	137.0	42.2	-15.1	18.9	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

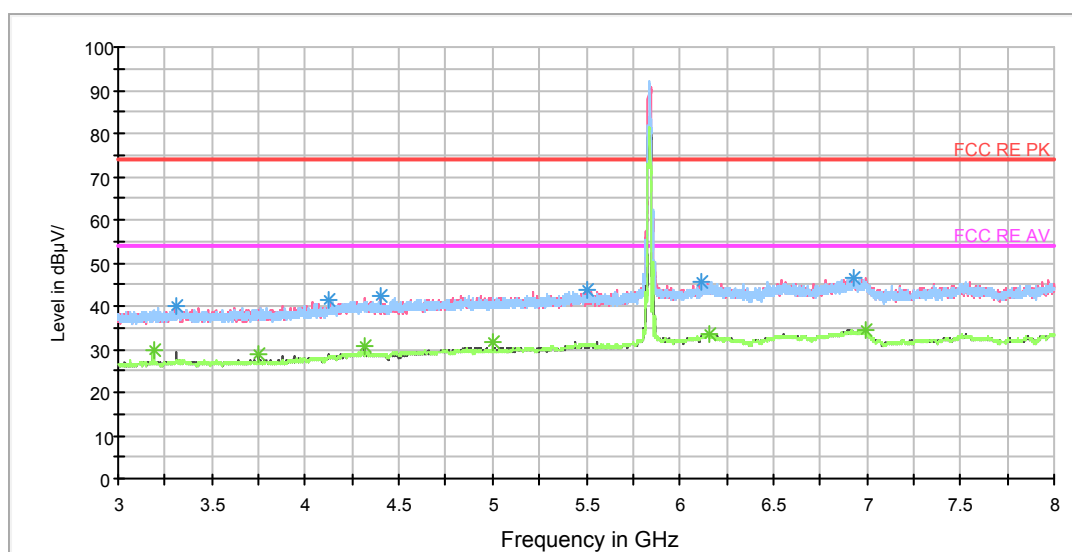
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	43.1	104.0	V	0.0	52.3	-9.2	30.9	74
1383.250000	43.0	104.0	H	27.0	50.0	-7.0	31.0	74
1645.250000	44.8	104.0	H	9.0	49.7	-4.9	29.2	74
1946.000000	46.6	104.0	V	236.0	49.9	-3.3	27.4	74
2197.250000	50.0	104.0	V	188.0	52.1	-2.1	24.0	74
2985.500000	53.4	104.0	V	254.0	51.2	2.2	20.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	31.3	104.0	V	0.0	40.5	-9.2	22.7	54
1425.500000	32.0	104.0	H	0.0	38.9	-6.9	22.0	54
1600.000000	34.5	104.0	V	161.0	40.9	-6.4	19.5	54
1996.500000	35.7	104.0	V	41.0	39.0	-3.3	18.3	54
2194.000000	38.8	104.0	V	188.0	40.9	-2.1	15.2	54
2995.750000	42.1	104.0	V	179.0	39.8	2.3	11.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

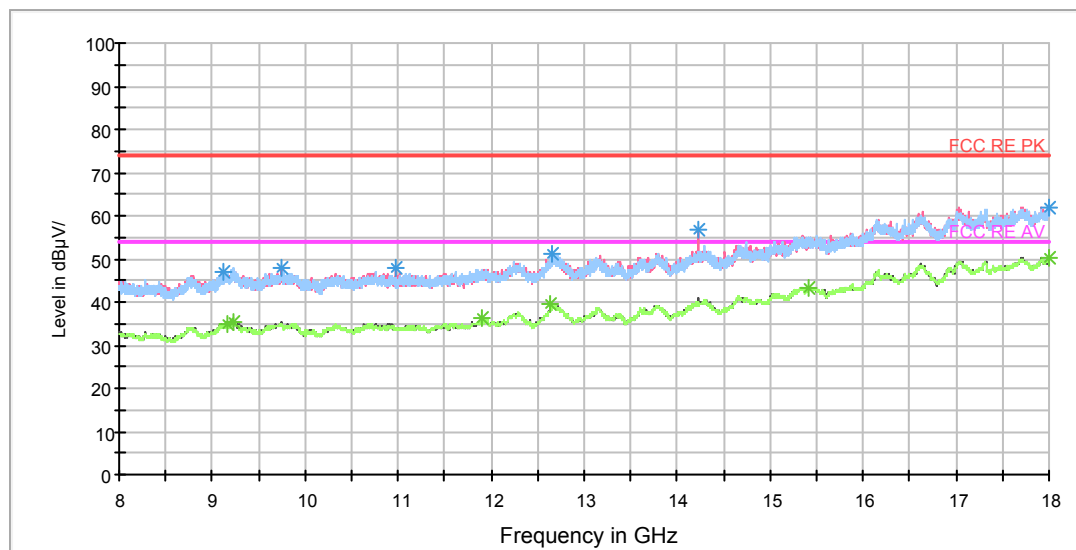
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3311.875000	39.9	105.0	V	124.0	42.0	-2.1	34.1	74
4120.625000	41.3	105.0	H	178.0	41.8	-0.5	32.7	74
4397.500000	42.2	105.0	V	225.0	42.1	0.1	31.8	74
5510.625000	43.8	105.0	V	250.0	40.7	3.1	30.2	74
6115.000000	45.8	105.0	H	0.0	40.5	5.3	28.2	74
6925.000000	46.5	105.0	V	0.0	40.3	6.2	27.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3187.500000	29.7	105.0	H	2.0	32.6	-2.9	24.3	54
3750.000000	28.9	105.0	V	327.0	30.6	-1.7	25.1	54
4312.500000	30.8	105.0	V	0.0	30.2	0.6	23.2	54
5000.000000	31.8	105.0	V	327.0	30.2	1.6	22.2	54
6155.625000	33.4	105.0	V	0.0	27.8	5.6	20.6	54
6995.000000	34.5	105.0	H	0.0	28.0	6.5	19.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV(YIPU)



Radiates Emission from 8GHz to 18GHz

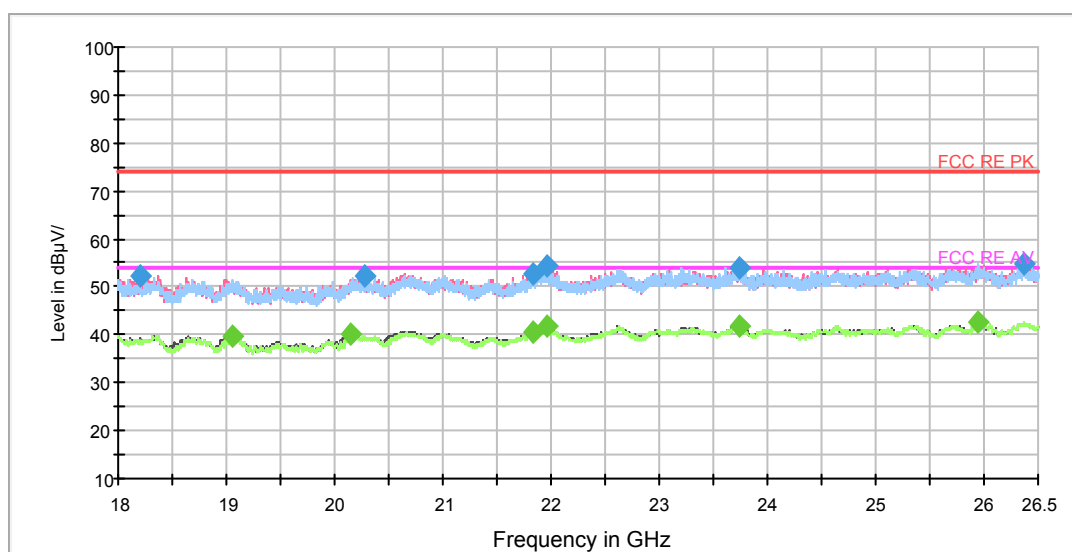
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9123.750000	46.9	105.0	V	244.0	36.8	10.1	27.1	74
9738.750000	47.7	105.0	V	299.0	37.7	10.0	26.3	74
10973.750000	47.9	105.0	V	0.0	38.2	9.7	26.1	74
12656.250000	51.1	105.0	V	0.0	37.2	13.9	22.9	74
14230.000000	56.5	105.0	V	218.0	40.8	15.7	17.5	74
17993.750000	61.9	105.0	H	0.0	36.6	25.3	12.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9153.750000	35.0	105.0	V	272.0	24.8	10.2	19.0	54
9232.500000	35.4	105.0	V	0.0	25.5	9.9	18.6	54
11902.500000	36.4	105.0	H	31.0	24.2	12.2	17.6	54
12641.250000	39.7	105.0	V	0.0	25.2	14.5	14.3	54
15417.500000	43.4	105.0	H	139.0	24.1	19.3	10.6	54
17997.500000	50.2	105.0	V	272.0	24.8	25.4	3.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

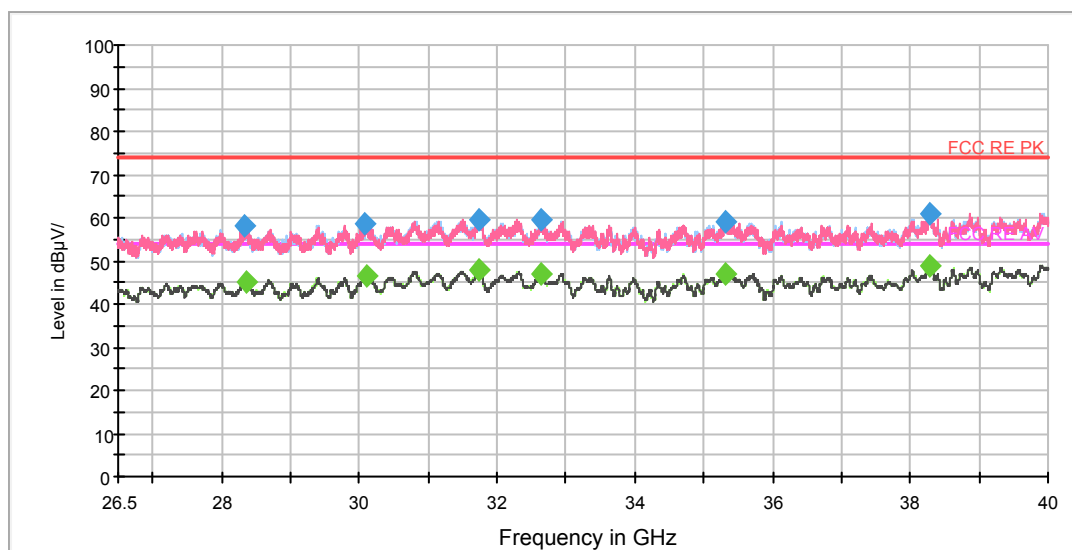
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18198.687500	52.2	H	17.0	54.8	-2.6	21.8	74.0
20273.750000	52.4	V	288.0	58.4	-6.0	21.6	74.0
21825.000000	52.7	H	0.0	60.7	-8.0	21.3	74.0
21957.812500	54.2	V	0.0	62.2	-8.0	19.8	74.0
23734.312500	54.0	V	77.0	59.9	-5.9	20.0	74.0
26374.625000	54.9	V	0.0	60.3	-5.4	19.1	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19049.750000	39.9	V	156.0	45.1	-5.2	14.1	54.0
20156.875000	40.0	V	156.0	45.8	-5.8	14.0	54.0
21834.562500	40.7	V	77.0	48.7	-8.0	13.3	54.0
21962.062500	41.9	V	156.0	49.9	-8.0	12.1	54.0
23741.750000	41.8	H	44.0	47.7	-5.9	12.2	54.0
25950.687500	42.7	V	262.0	48.1	-5.4	11.3	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28342.750000	58.0	V	30.0	59.5	-1.5	16.0	74.0
30079.187500	58.8	H	169.0	59.2	-0.4	15.2	74.0
31746.437500	59.7	V	0.0	60.2	-0.5	14.3	74.0
32637.437500	59.3	H	216.0	60.0	-0.7	14.7	74.0
35308.750000	59.3	H	355.0	59.8	-0.5	14.7	74.0
38278.750000	61.1	H	216.0	59.1	2.0	12.9	74.0

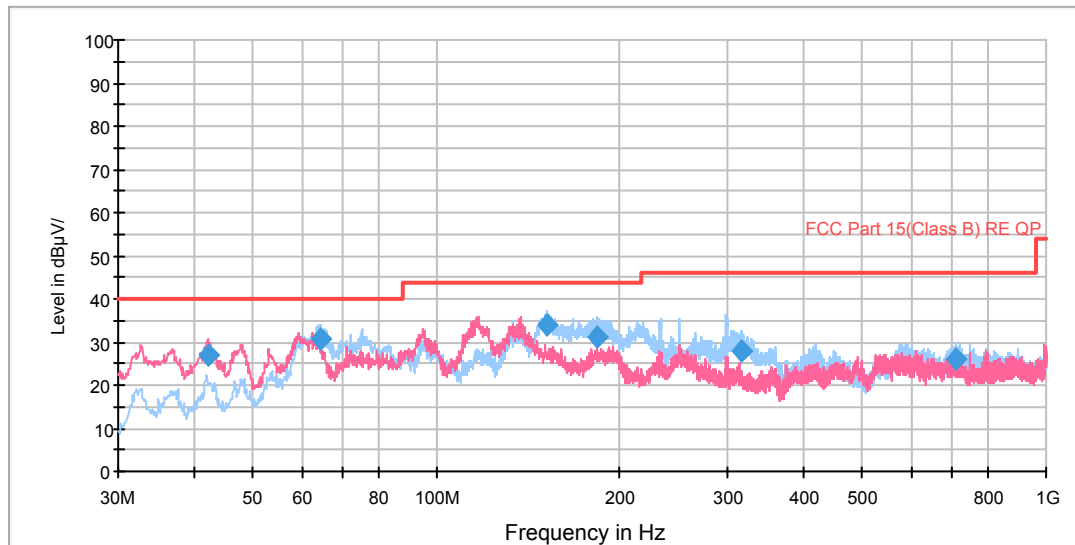
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28352.875000	45.2	V	100.0	46.7	-1.5	8.8	54.0
30107.875000	46.4	H	0.0	46.8	-0.4	7.6	54.0
31739.687500	48.1	V	0.0	48.6	-0.5	5.9	54.0
32649.250000	47.1	H	143.0	47.8	-0.7	6.9	54.0
35317.187500	47.2	V	123.0	47.7	-0.5	6.8	54.0
38278.750000	48.8	H	216.0	46.8	2.0	5.2	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

MIMO Antenna 3&4 5735MHz

RE 30M-1GHz QP

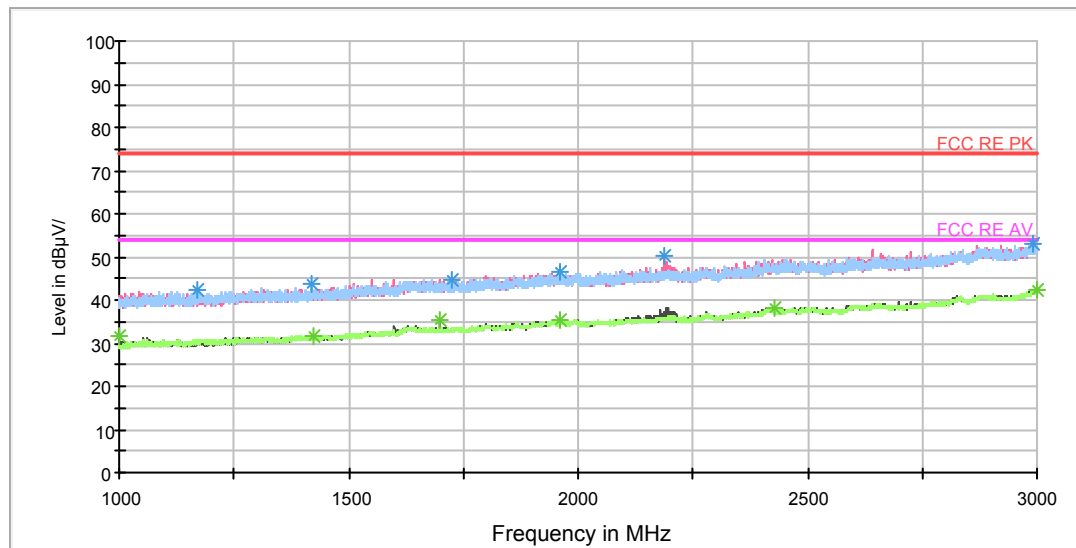


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
42.219688	26.8	121.0	V	66.0	47.2	-20.4	13.2	40.0
64.593912	30.8	129.0	H	22.0	54.5	-23.7	9.2	40.0
151.513769	33.8	129.0	H	149.0	63.0	-29.2	9.7	43.5
183.402797	31.1	129.0	H	344.0	58.8	-27.7	12.4	43.5
315.238750	28.1	104.0	H	290.0	51.3	-23.2	17.9	46.0
713.126500	25.9	104.0	H	127.0	41.0	-15.1	20.1	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

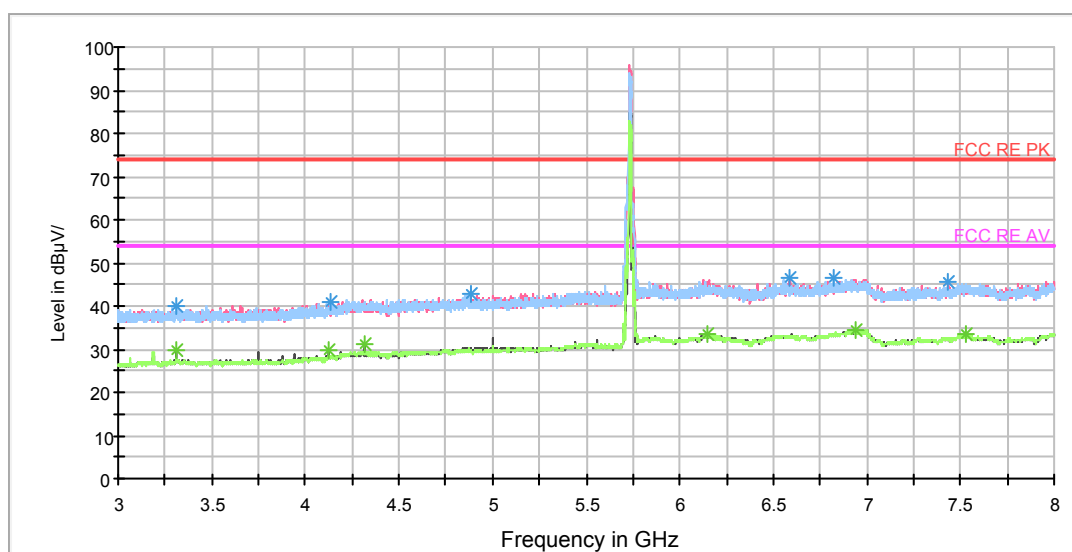
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1170.000000	42.1	104.0	H	69.0	50.2	-8.1	31.9	74
1420.750000	43.8	104.0	H	32.0	50.7	-6.9	30.2	74
1727.000000	44.7	104.0	H	114.0	49.8	-5.1	29.3	74
1958.750000	46.7	104.0	V	0.0	49.9	-3.2	27.3	74
2189.250000	50.2	104.0	V	181.0	52.4	-2.2	23.8	74
2991.250000	53.2	104.0	V	0.0	51.0	2.2	20.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	31.5	104.0	V	199.0	40.7	-9.2	22.5	54
1424.500000	31.6	104.0	H	32.0	38.5	-6.9	22.4	54
1697.500000	35.2	104.0	V	191.0	40.2	-5.0	18.8	54
1959.000000	35.5	104.0	H	96.0	38.7	-3.2	18.5	54
2428.750000	38.3	104.0	V	173.0	38.9	-0.6	15.7	54
3000.000000	42.3	104.0	H	230.0	40.0	2.3	11.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

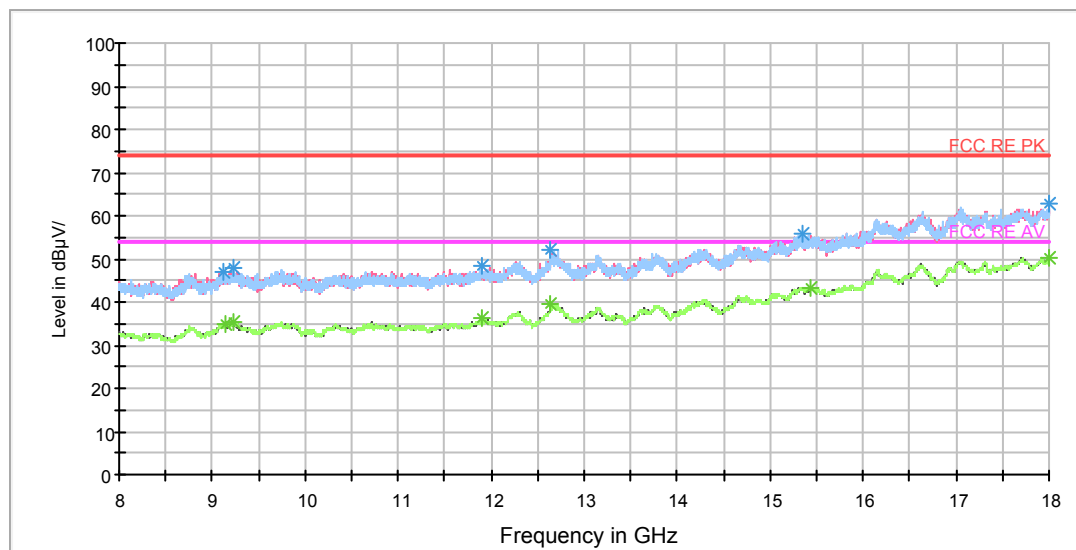
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3312.500000	39.9	105.0	V	0.0	42.0	-2.1	34.1	74
4133.750000	40.9	105.0	H	156.0	41.2	-0.3	33.1	74
4883.125000	42.7	105.0	V	354.0	40.8	1.9	31.3	74
6591.875000	46.5	105.0	V	74.0	40.9	5.6	27.5	74
6821.250000	46.3	105.0	H	0.0	40.5	5.8	27.7	74
7437.500000	45.4	105.0	V	354.0	38.7	6.7	28.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3312.500000	29.9	105.0	V	0.0	32.0	-2.1	24.1	54
4125.000000	29.6	105.0	V	230.0	30.0	-0.4	24.4	54
4312.500000	31.2	105.0	V	0.0	30.6	0.6	22.8	54
6146.875000	33.5	105.0	H	156.0	28.0	5.5	20.5	54
6935.625000	34.4	105.0	V	0.0	28.3	6.1	19.6	54
7528.750000	33.6	105.0	V	205.0	26.5	7.1	20.4	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV(YIPU)



Radiates Emission from 8GHz to 18GHz

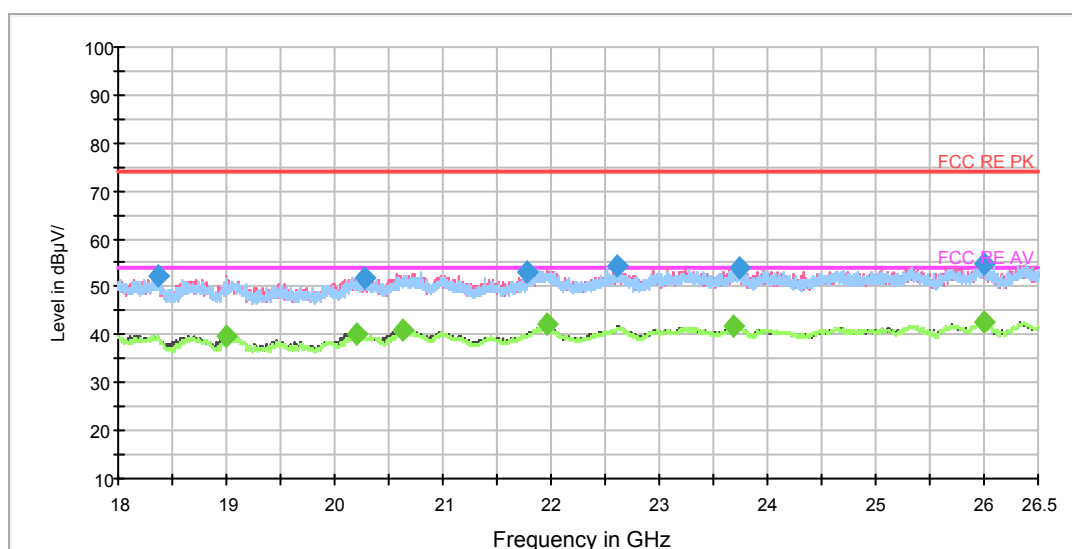
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9130.000000	46.9	105.0	H	40.0	36.9	10.0	27.1	74
9228.750000	47.9	105.0	H	0.0	38.0	9.9	26.1	74
11903.750000	48.2	105.0	H	0.0	36.0	12.2	25.8	74
12640.000000	51.9	105.0	H	12.0	37.3	14.6	22.1	74
15342.500000	55.7	105.0	V	298.0	36.9	18.8	18.3	74
17996.250000	62.9	105.0	H	92.0	37.5	25.4	11.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9136.250000	35.0	105.0	V	351.0	25.0	10.0	19.0	54
9235.000000	35.5	105.0	V	0.0	25.6	9.9	18.5	54
11900.000000	36.1	105.0	H	0.0	23.8	12.3	17.9	54
12640.000000	39.6	105.0	V	0.0	25.0	14.6	14.4	54
15425.000000	43.4	105.0	V	0.0	24.0	19.4	10.6	54
18000.000000	50.3	105.0	H	0.0	24.8	25.5	3.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

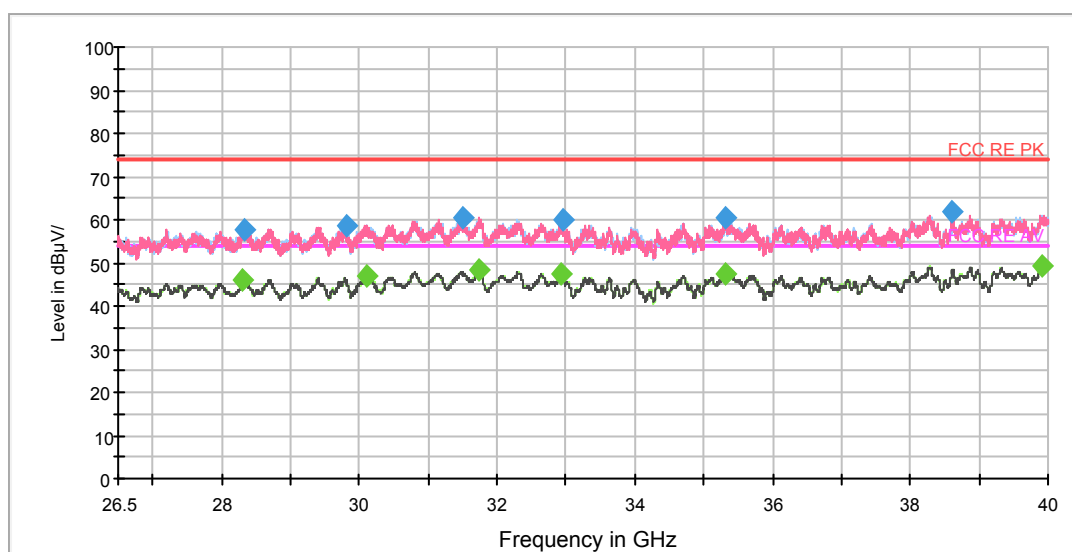
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18375.062500	52.3	H	283.0	55.7	-3.4	21.7	74.0
20271.625000	52.0	H	255.0	57.9	-5.9	22.0	74.0
21780.375000	53.1	V	76.0	61.1	-8.0	20.9	74.0
22602.750000	54.2	H	176.0	60.9	-6.7	19.8	74.0
23740.687500	54.1	V	129.0	60.0	-5.9	19.9	74.0
25994.250000	55.0	H	255.0	60.4	-5.4	19.0	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19007.250000	39.9	V	312.0	45.0	-5.1	14.1	54.0
20211.062500	40.1	V	337.0	46.0	-5.9	13.9	54.0
20628.625000	40.9	V	0.0	47.4	-6.5	13.1	54.0
21966.312500	42.2	V	102.0	50.2	-8.0	11.8	54.0
23691.812500	42.0	H	149.0	47.9	-5.9	12.0	54.0
25996.375000	42.7	V	0.0	48.1	-5.4	11.3	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28320.812500	57.9	V	218.0	59.4	-1.5	16.1	74.0
29802.437500	58.7	H	0.0	59.3	-0.6	15.3	74.0
31505.125000	60.4	H	142.0	60.9	-0.5	13.6	74.0
32954.687500	59.8	H	118.0	60.6	-0.8	14.2	74.0
35305.375000	60.3	H	94.0	60.8	-0.5	13.7	74.0
38616.250000	61.7	V	0.0	59.2	2.5	12.3	74.0

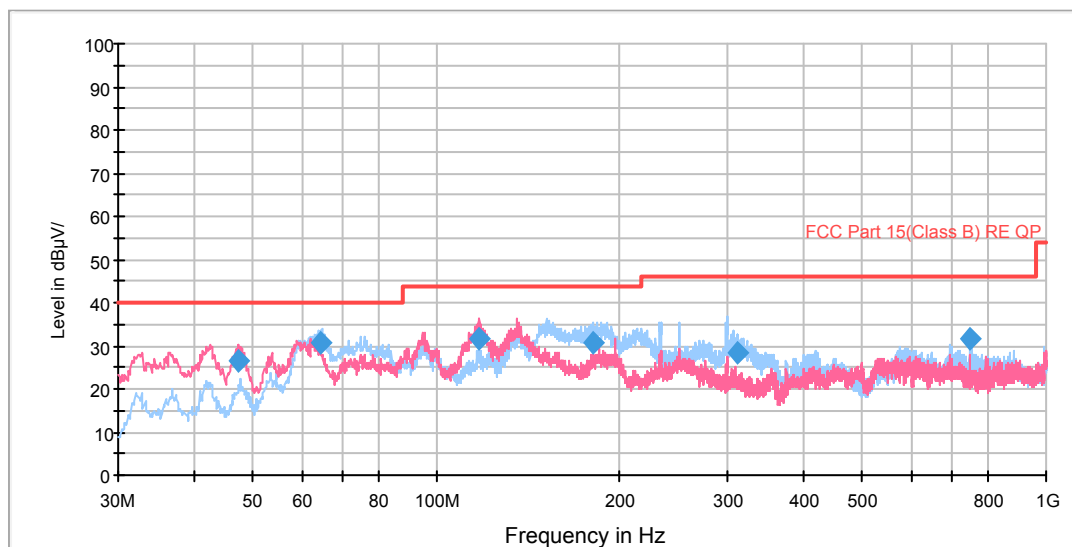
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28314.062500	45.9	H	352.0	47.4	-1.5	8.1	54.0
30096.062500	46.9	H	165.0	47.3	-0.4	7.1	54.0
31741.375000	48.4	H	281.0	48.9	-0.5	5.6	54.0
32937.812500	47.3	V	101.0	48.1	-0.8	6.7	54.0
35310.437500	47.5	H	213.0	48.0	-0.5	6.5	54.0
39900.437500	49.1	V	53.0	46.8	2.3	4.9	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5790MHz

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

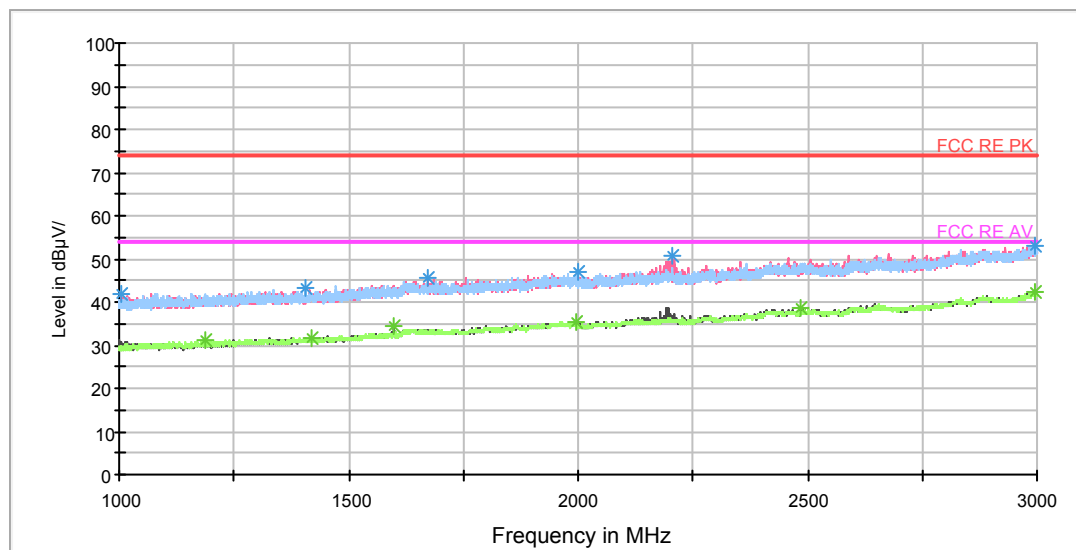
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
47.335544	26.5	101.0	V	78.0	46.8	-20.3	13.5	40.0
64.676753	30.6	129.0	H	33.0	54.3	-23.7	9.4	40.0
117.286750	31.5	104.0	V	95.0	58.4	-26.9	12.0	43.5
180.679322	30.5	129.0	H	167.0	58.6	-28.1	13.0	43.5
310.520000	28.6	103.0	H	283.0	51.7	-23.1	17.4	46.0
749.988250	31.7	104.0	H	139.0	47.1	-15.4	14.3	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

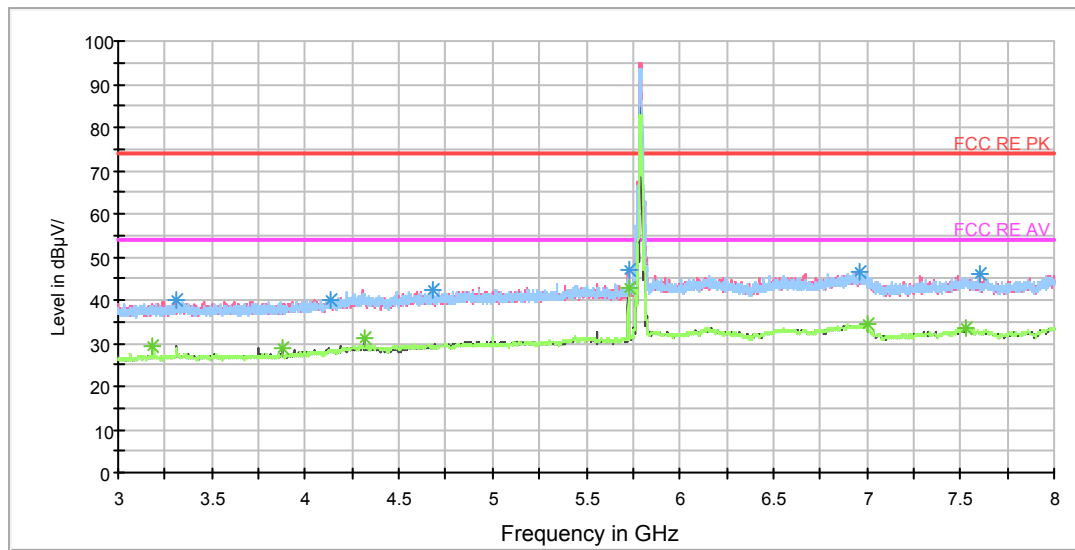
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1004.500000	42.0	104.0	V	193.0	51.3	-9.3	32.0	74
1405.250000	43.1	104.0	H	64.0	50.2	-7.1	30.9	74
1671.000000	45.4	104.0	V	354.0	50.5	-5.1	28.6	74
1998.750000	46.8	104.0	H	181.0	50.2	-3.4	27.2	74
2203.750000	50.7	104.0	V	238.0	52.8	-2.1	23.3	74
2997.250000	53.2	104.0	V	165.0	50.9	2.3	20.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1189.750000	31.2	104.0	H	64.0	39.4	-8.2	22.8	54
1417.250000	31.6	104.0	H	55.0	38.5	-6.9	22.4	54
1599.750000	34.4	104.0	V	184.0	40.8	-6.4	19.6	54
1995.500000	35.4	104.0	V	346.0	38.6	-3.2	18.6	54
2486.250000	38.8	104.0	V	174.0	38.8	0.0	15.2	54
2995.750000	42.3	104.0	H	119.0	40.0	2.3	11.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

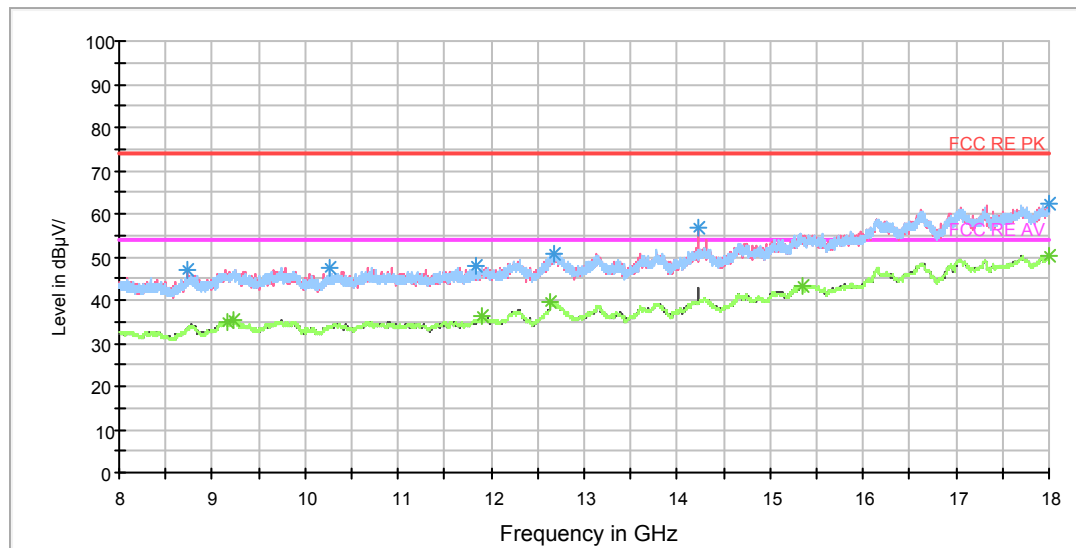
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3311.875000	40.2	105.0	V	0.0	42.3	-2.1	33.8	74
4133.750000	40.0	105.0	V	211.0	40.3	-0.3	34.0	74
4684.375000	42.2	105.0	H	107.0	41.4	0.8	31.8	74
5725.000000	47.1	105.0	V	358.0	43.8	3.3	26.9	74
6962.500000	46.7	105.0	H	133.0	40.5	6.2	27.3	74
7608.125000	46.1	105.0	V	134.0	39.2	6.9	27.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3186.875000	29.4	105.0	H	312.0	32.3	-2.9	24.6	54
3875.000000	28.9	105.0	V	358.0	30.3	-1.4	25.1	54
4312.500000	31.0	105.0	V	0.0	30.4	0.6	23.0	54
5725.000000	42.9	105.0	V	358.0	39.6	3.3	11.1	54
7000.000000	34.5	105.0	V	358.0	27.9	6.6	19.5	54
7530.000000	33.3	105.0	H	208.0	26.2	7.1	20.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV(YIPU)



Radiates Emission from 8GHz to 18GHz

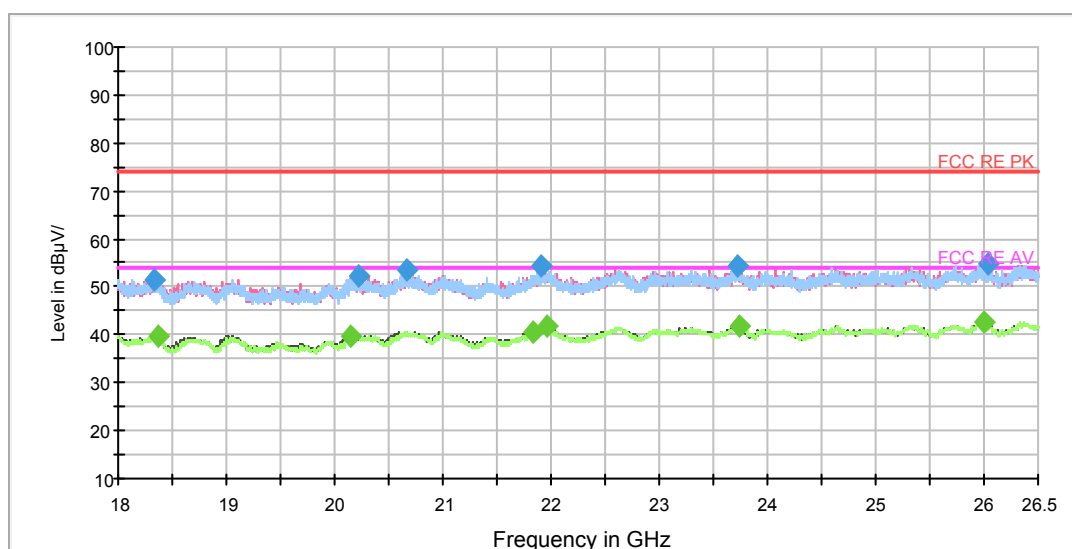
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
8741.250000	47.2	105.0	V	189.0	39.2	8.0	26.8	74
10261.250000	47.6	105.0	H	117.0	37.5	10.1	26.4	74
11833.750000	47.8	105.0	H	0.0	36.2	11.6	26.2	74
12680.000000	50.9	105.0	H	9.0	36.6	14.3	23.1	74
14227.500000	56.9	105.0	V	216.0	41.2	15.7	17.1	74
17998.750000	62.4	105.0	H	0.0	37.0	25.4	11.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9153.750000	34.8	105.0	H	9.0	24.6	10.2	19.2	54
9238.750000	35.3	105.0	H	9.0	25.4	9.9	18.7	54
11900.000000	36.3	105.0	V	351.0	24.0	12.3	17.7	54
12640.000000	39.7	105.0	H	198.0	25.1	14.6	14.3	54
15355.000000	43.5	105.0	H	117.0	24.8	18.7	10.5	54
17998.750000	50.2	105.0	V	0.0	24.8	25.4	3.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

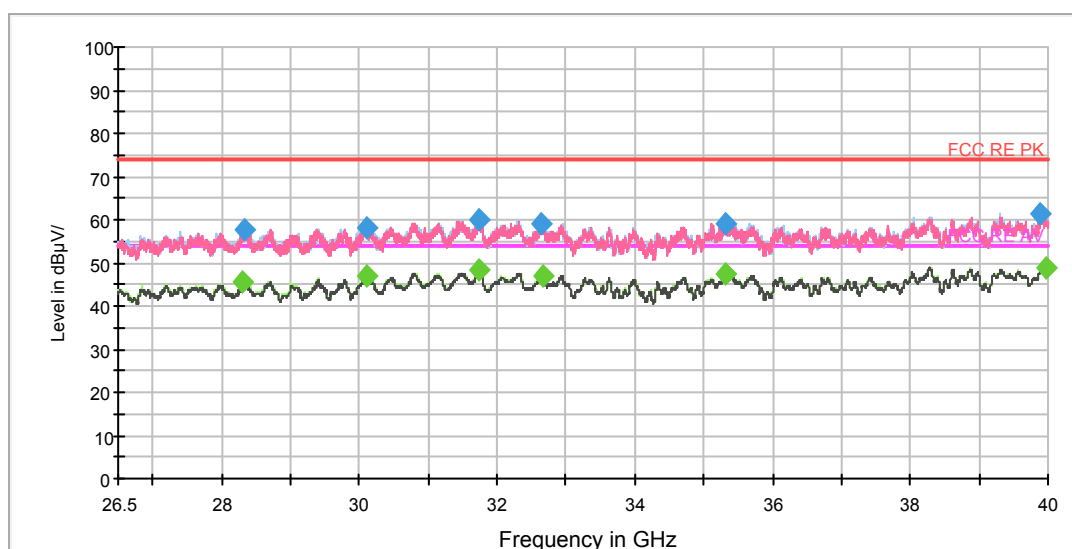
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18340.000000	51.6	H	0.0	54.8	-3.2	22.4	74.0
20219.562500	52.2	V	314.0	58.1	-5.9	21.8	74.0
20667.937500	53.4	V	183.0	60.0	-6.6	20.6	74.0
21898.312500	54.4	V	0.0	62.4	-8.0	19.6	74.0
23722.625000	54.3	V	209.0	60.2	-5.9	19.7	74.0
26044.187500	54.9	V	0.0	60.3	-5.4	19.1	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18368.687500	39.7	V	314.0	43.1	-3.4	14.3	54.0
20155.812500	39.9	H	70.0	45.7	-5.8	14.1	54.0
21838.812500	40.8	V	0.0	48.8	-8.0	13.2	54.0
21962.062500	41.8	V	75.0	49.8	-8.0	12.2	54.0
23739.625000	41.7	V	157.0	47.6	-5.9	12.3	54.0
25998.500000	42.7	H	42.0	48.1	-5.4	11.3	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28330.937500	57.7	H	260.0	59.2	-1.5	16.3	74.0
30097.750000	58.3	H	306.0	58.7	-0.4	15.7	74.0
31743.062500	60.0	V	101.0	60.5	-0.5	14.0	74.0
32652.625000	59.0	V	149.0	59.7	-0.7	15.0	74.0
35318.875000	59.3	V	78.0	59.8	-0.5	14.7	74.0
39897.062500	61.5	H	284.0	59.2	2.3	12.5	74.0

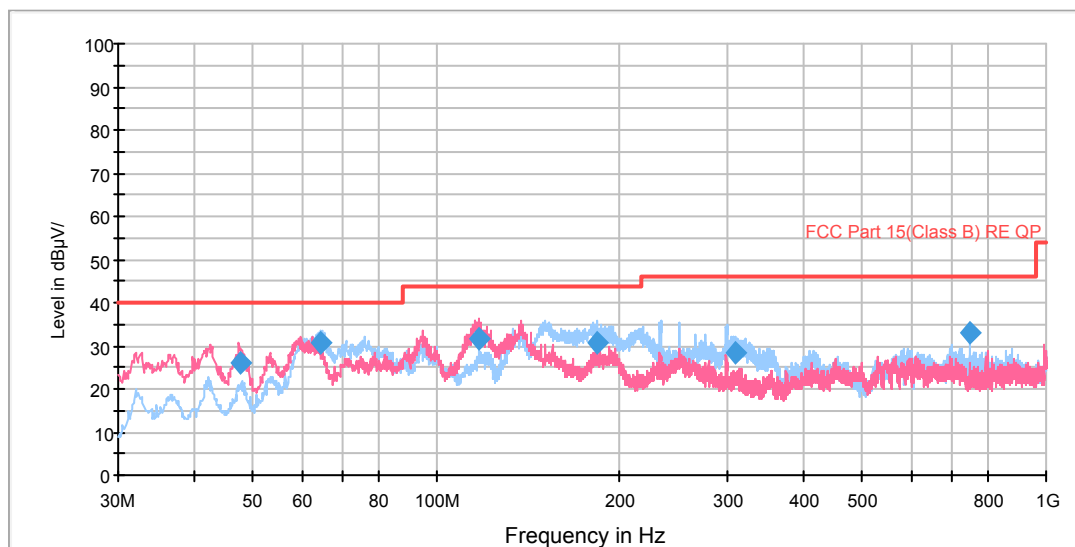
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28309.000000	45.4	H	330.0	46.9	-1.5	8.6	54.0
30102.812500	47.0	H	330.0	47.4	-0.4	7.0	54.0
31741.375000	48.4	H	190.0	48.9	-0.5	5.6	54.0
32657.687500	47.1	H	0.0	47.8	-0.7	6.9	54.0
35302.000000	47.2	H	0.0	47.7	-0.5	6.8	54.0
39959.500000	49.0	H	284.0	46.7	2.3	5.0	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5840MHz

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

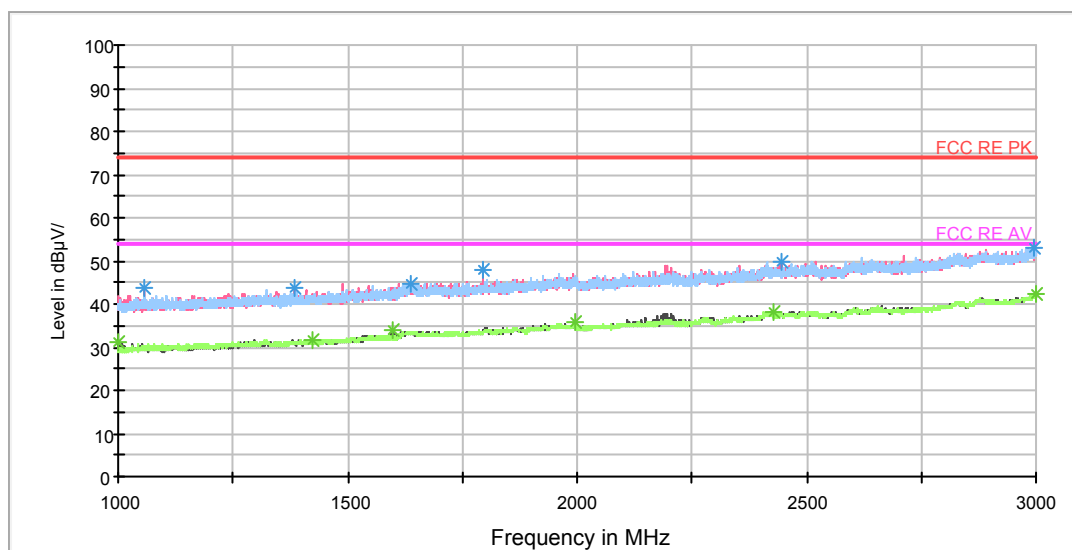
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
47.457097	26.2	104.0	V	81.0	46.5	-20.3	13.8	40.0
64.676753	30.8	129.0	H	22.0	54.5	-23.7	9.2	40.0
117.405803	31.6	104.0	V	124.0	58.5	-26.9	11.9	43.5
183.400903	30.8	120.0	H	169.0	58.5	-27.7	12.7	43.5
310.158000	28.4	101.0	H	292.0	51.5	-23.1	17.6	46.0
749.988250	32.9	103.0	H	135.0	48.3	-15.4	13.1	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

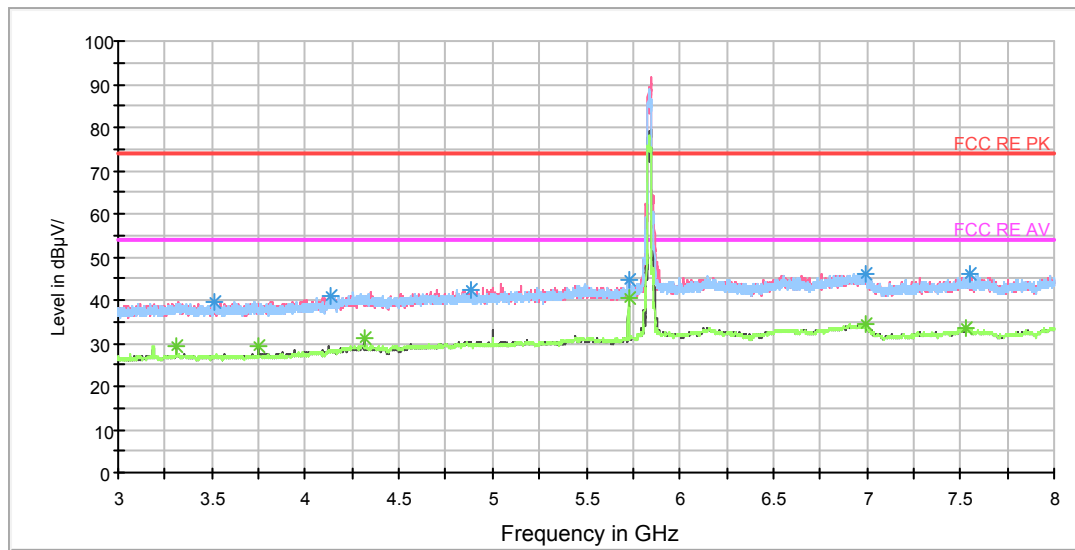
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1055.750000	43.7	104.0	V	270.0	52.7	-9.0	30.3	74
1382.750000	43.5	104.0	V	226.0	50.5	-7.0	30.5	74
1635.750000	44.8	104.0	H	0.0	49.5	-4.7	29.2	74
1794.250000	47.7	104.0	V	135.0	52.0	-4.3	26.3	74
2447.000000	49.8	104.0	V	172.0	50.4	-0.6	24.2	74
2993.750000	52.9	104.0	H	11.0	50.7	2.2	21.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	31.3	104.0	V	207.0	40.5	-9.2	22.7	54
1423.750000	31.7	104.0	H	46.0	38.6	-6.9	22.3	54
1600.000000	34.2	104.0	V	190.0	40.6	-6.4	19.8	54
1994.500000	35.7	104.0	H	19.0	38.9	-3.2	18.3	54
2427.000000	38.3	104.0	H	55.0	38.8	-0.5	15.7	54
2998.250000	42.3	104.0	H	108.0	40.0	2.3	11.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

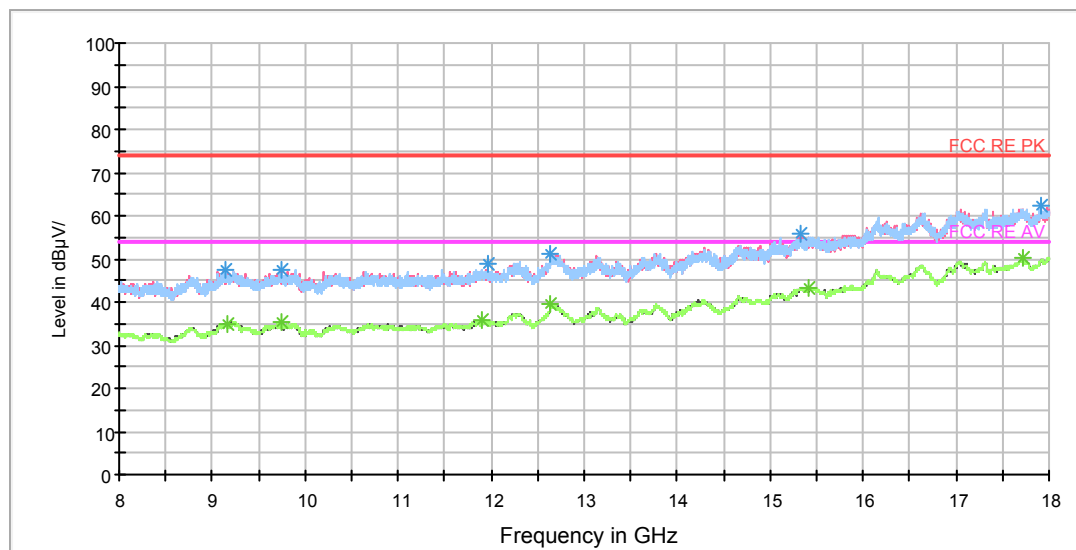
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3513.125000	39.7	105.0	H	134.0	41.7	-2.0	34.3	74
4133.125000	40.9	105.0	V	0.0	41.2	-0.3	33.1	74
4883.750000	42.5	105.0	V	151.0	40.6	1.9	31.5	74
5725.000000	44.7	105.0	H	0.0	41.4	3.3	29.3	74
6995.000000	46.1	105.0	H	210.0	39.6	6.5	27.9	74
7554.375000	45.9	105.0	V	0.0	38.9	7.0	28.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3312.500000	29.5	105.0	V	0.0	31.6	-2.1	24.5	54
3750.000000	29.4	105.0	V	326.0	31.1	-1.7	24.6	54
4312.500000	31.1	105.0	V	0.0	30.5	0.6	22.9	54
5725.000000	40.3	105.0	H	0.0	37.0	3.3	13.7	54
6996.875000	34.4	105.0	V	176.0	27.9	6.5	19.6	54
7530.625000	33.3	105.0	V	125.0	26.2	7.1	20.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 3-18GHz PK+AV(YIPU)



Radiates Emission from 8GHz to 18GHz

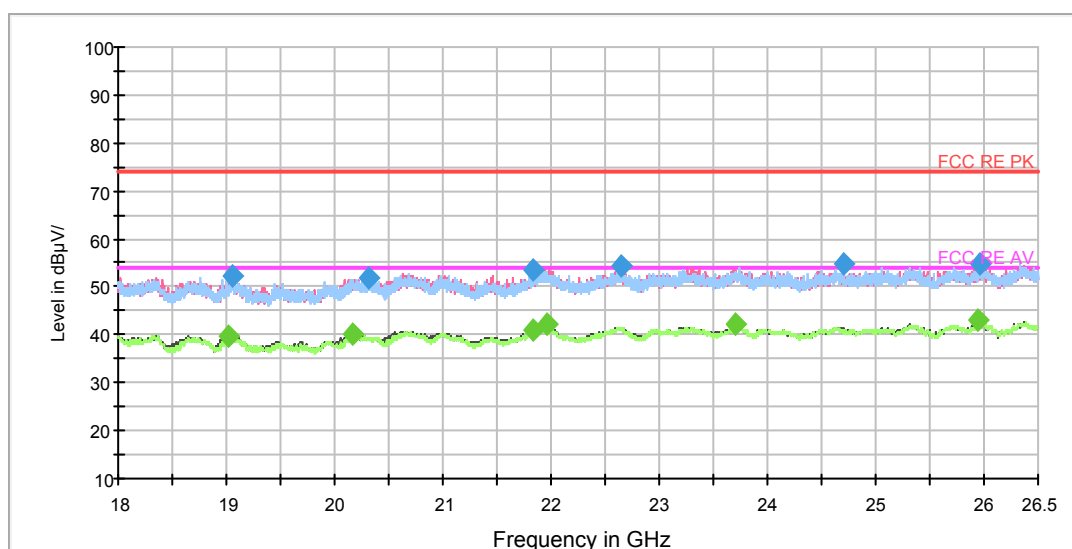
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9152.500000	47.3	105.0	H	253.0	37.1	10.2	26.7	74
9752.500000	47.3	105.0	V	191.0	37.6	9.7	26.7	74
11958.750000	48.7	105.0	H	310.0	36.8	11.9	25.3	74
12641.250000	51.1	105.0	H	170.0	36.6	14.5	22.9	74
15333.750000	56.0	105.0	V	0.0	37.3	18.7	18.0	74
17908.750000	62.3	105.0	V	299.0	36.9	25.4	11.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
9153.750000	34.9	105.0	V	191.0	24.7	10.2	19.1	54
9737.500000	35.4	105.0	V	0.0	25.4	10.0	18.6	54
11903.750000	36.0	105.0	H	11.0	23.8	12.2	18.0	54
12640.000000	39.7	105.0	H	0.0	25.1	14.6	14.3	54
15418.750000	43.3	105.0	V	0.0	23.9	19.4	10.7	54
17710.000000	50.2	105.0	V	0.0	25.5	24.7	3.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

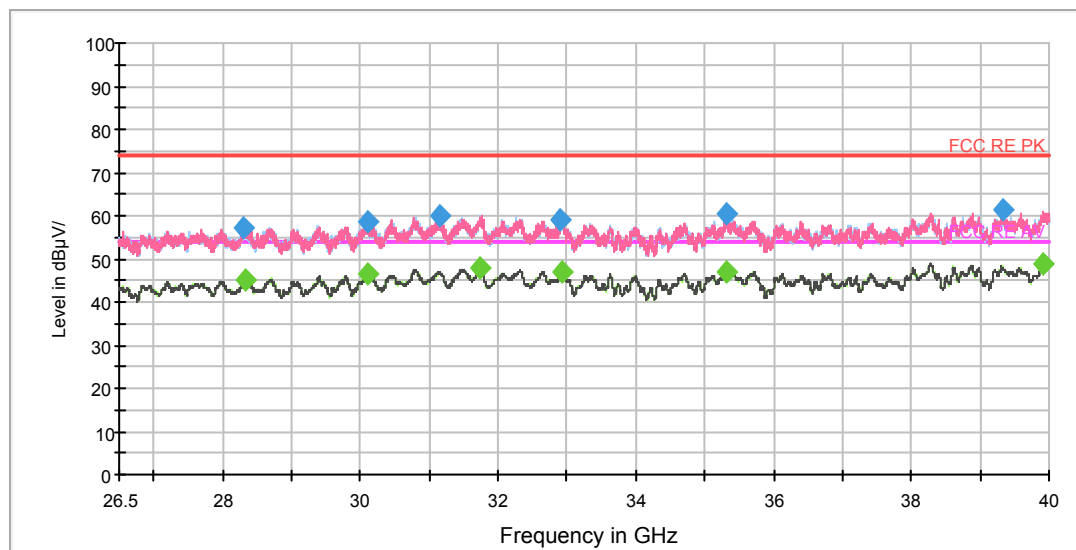
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19052.937500	52.4	H	227.0	57.6	-5.2	21.6	74.0
20317.312500	52.0	V	0.0	58.0	-6.0	22.0	74.0
21833.500000	53.6	V	0.0	61.6	-8.0	20.4	74.0
22656.937500	54.2	V	0.0	60.8	-6.6	19.8	74.0
24696.937500	54.8	H	0.0	60.8	-6.0	19.2	74.0
25957.062500	54.7	V	0.0	60.1	-5.4	19.3	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19010.437500	39.8	V	209.0	44.9	-5.1	14.2	54.0
20161.125000	40.1	V	50.0	45.9	-5.8	13.9	54.0
21839.875000	40.8	H	201.0	48.8	-8.0	13.2	54.0
21963.125000	42.2	V	0.0	50.2	-8.0	11.8	54.0
23704.562500	42.1	V	0.0	48.0	-5.9	11.9	54.0
25949.625000	42.9	V	0.0	48.3	-5.4	11.1	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28310.687500	57.1	H	266.0	58.6	-1.5	16.9	74.0
30099.437500	58.6	H	313.0	59.0	-0.4	15.4	74.0
31152.437500	60.2	H	0.0	60.6	-0.4	13.8	74.0
32905.750000	59.0	H	70.0	59.8	-0.8	15.0	74.0
35308.750000	60.3	H	98.0	60.8	-0.5	13.7	74.0
39323.312500	61.6	H	289.0	58.8	2.8	12.4	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28339.375000	45.2	V	78.0	46.7	-1.5	8.8	54.0
30097.750000	46.4	V	55.0	46.8	-0.4	7.6	54.0
31736.312500	48.0	V	243.0	48.5	-0.5	6.0	54.0
32941.187500	47.0	H	122.0	47.8	-0.8	7.0	54.0
35313.812500	47.2	H	359.0	47.7	-0.5	6.8	54.0
39910.562500	48.9	H	0.0	46.6	2.3	5.1	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5.6. Conducted spurious emissions at antenna port

Ambient condition

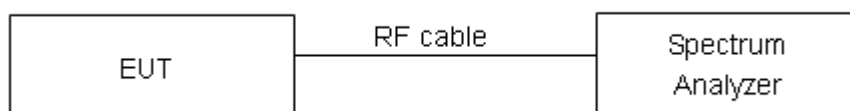
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. Set RBW = 1MHz, VBW =3MHz for the 9kHz to 10th harmonic

The conducted is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test Setup



Limits

FCC §407 (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(4) For transmitters operating in the 5725-5850 MHz 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.

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

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

(7) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Note: Please refer to the following plots:

A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater

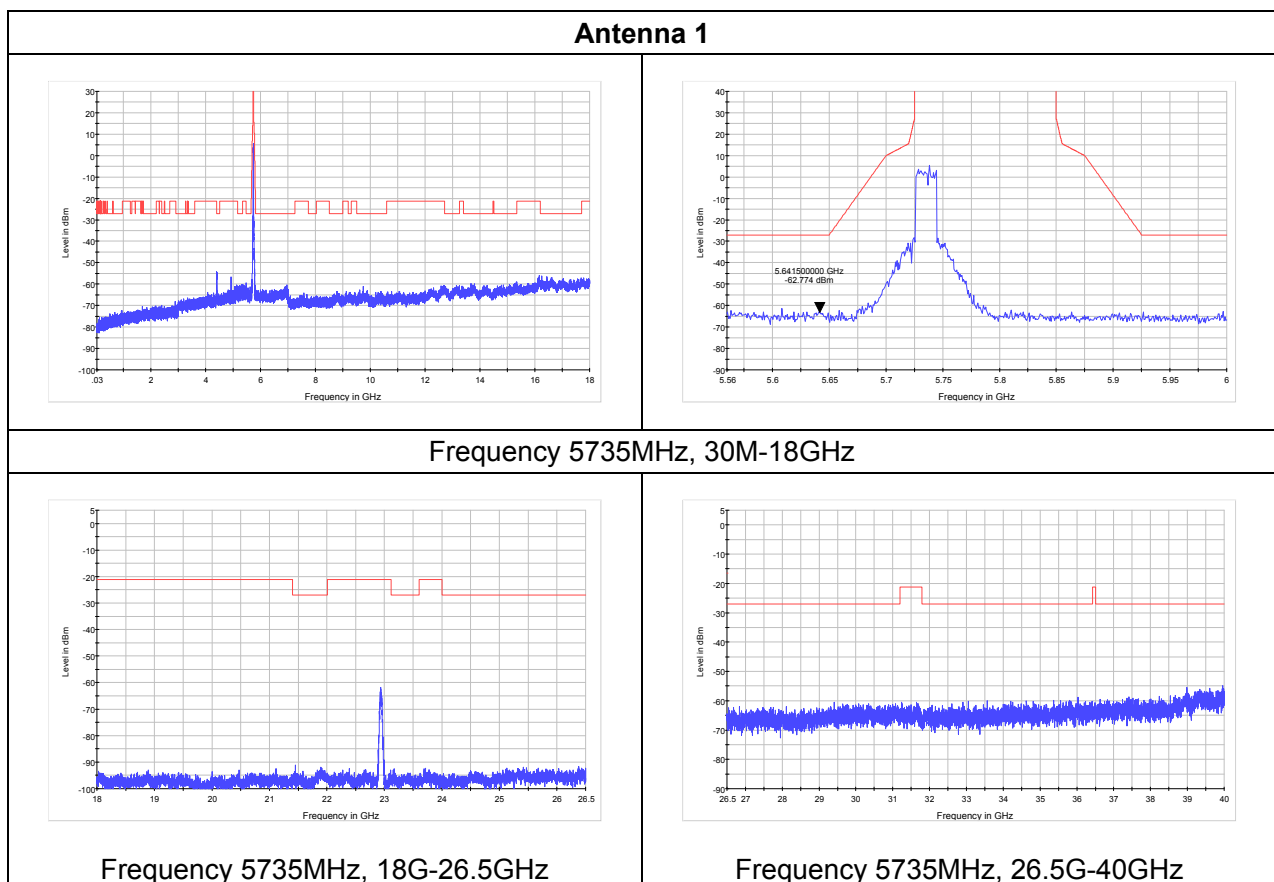
For MIMO mode, the manufacturer declared the transmitter output signals are SFBC modes combine with CDD modes. The signals are antenna 1,2 correlated and 3,4 correlated. And 1,2 and 3,4 are completely uncorrelated. According to KDB 662911 D01 Multiple Transmitter Output v02r01 2)E)(3): Measure value add $10 \log(N_{\text{ANT}})$ dB = Measure value + $10 \log(2)$

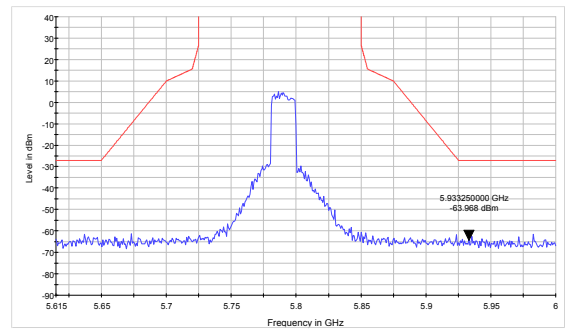
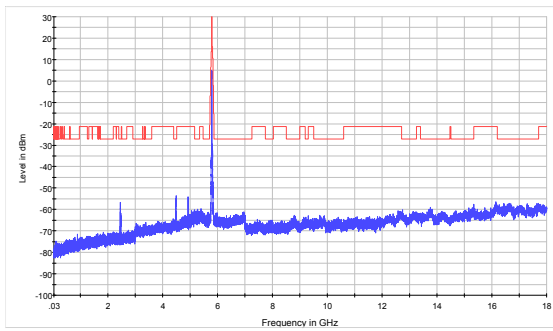
Test result

The signal beyond the limit is carrier.

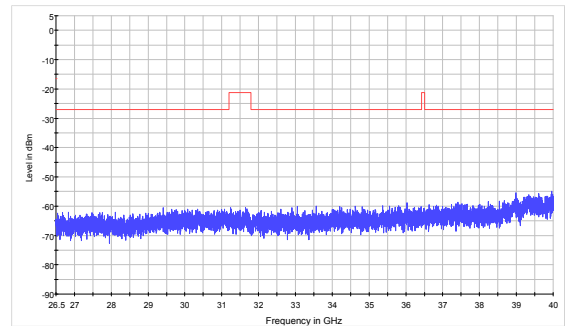
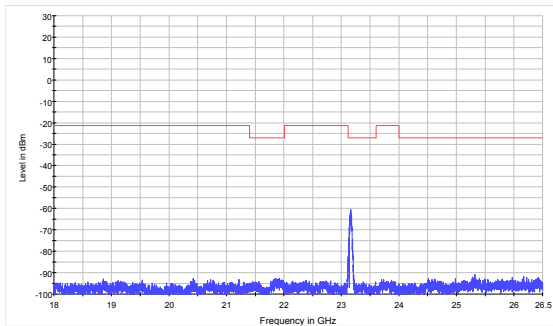
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and 9kHz-30MHz, the emissions more than 20 dB below the permissible value are not reported.

All spurious emissions per chain at the antenna port is lower than -55dbm, so the total emission Combined two chains is lower than -52dbm (value+10 log(2)), antenna gain is 5dbi, so compliance the requirements



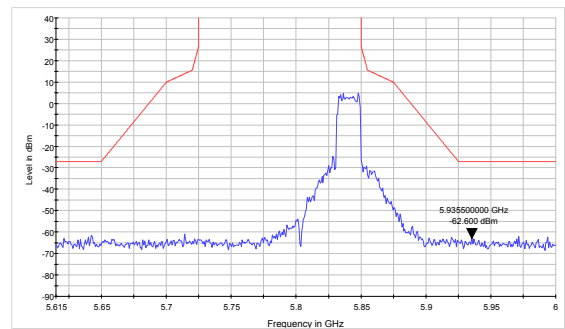
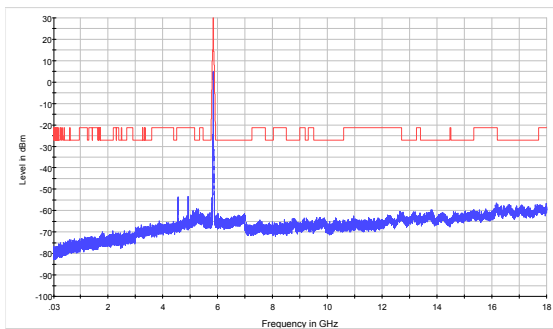


Frequency 5790MHz, 30M-18GHz

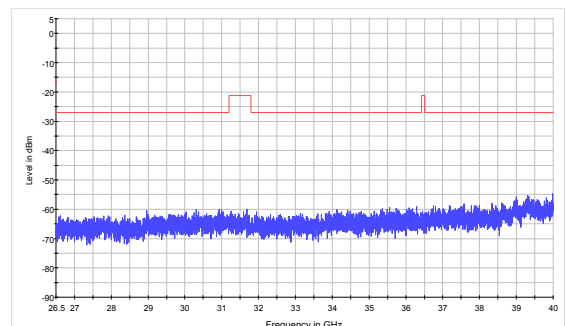
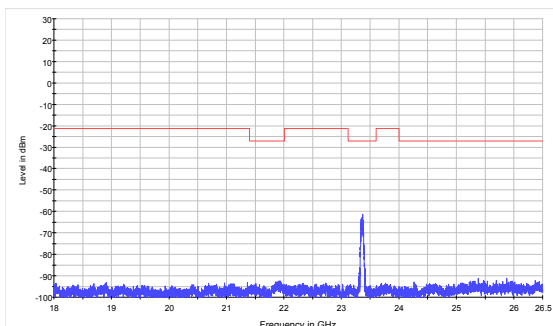


Frequency 5790MHz, 18G-26.5GHz

Frequency 5790MHz, 26.5G-40GHz

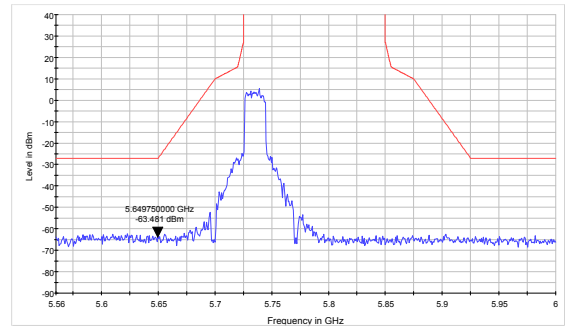
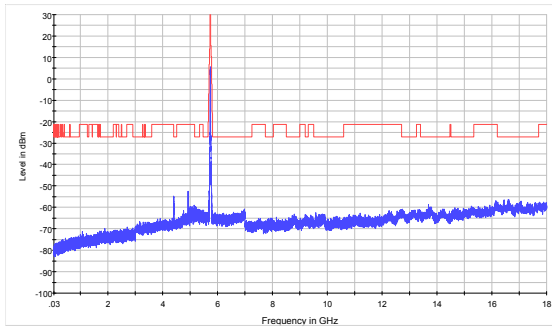
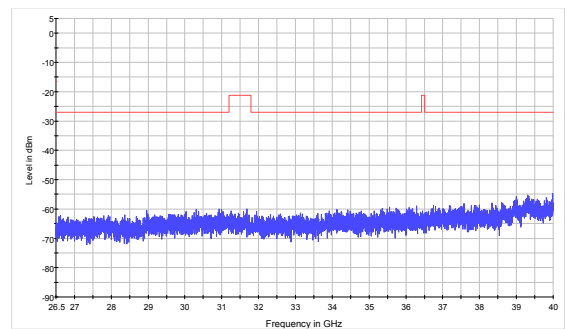
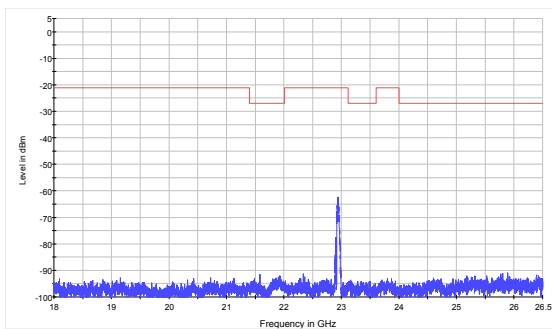
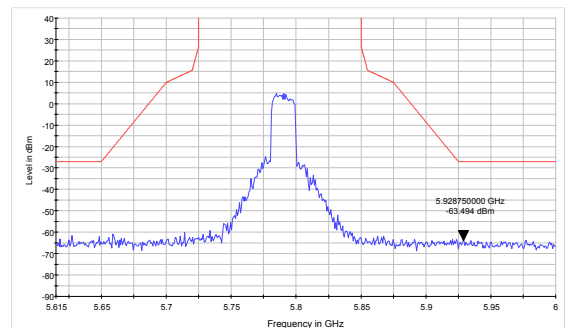
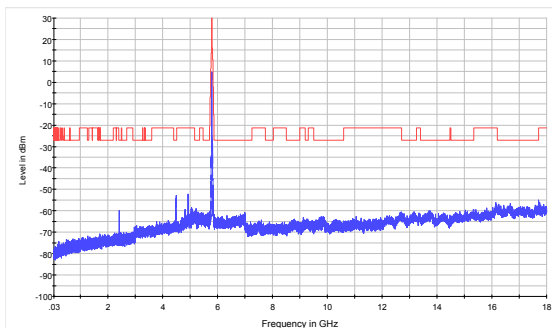
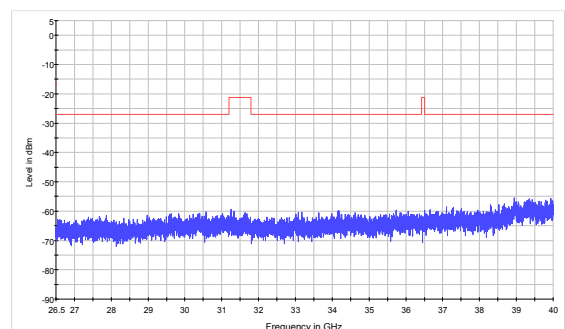
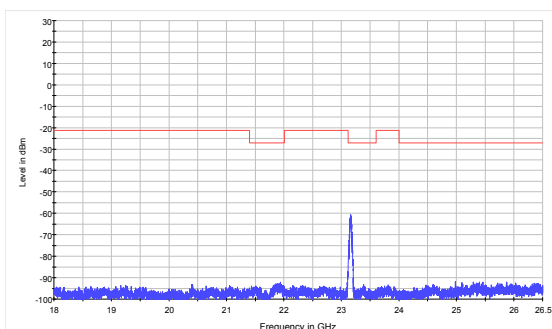


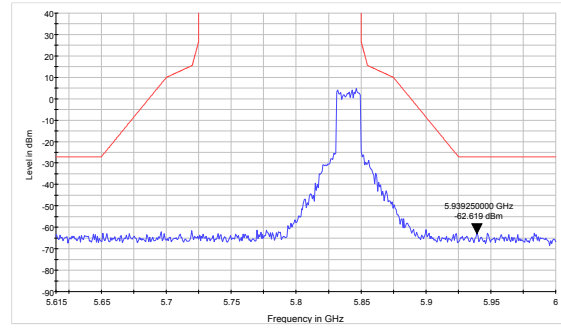
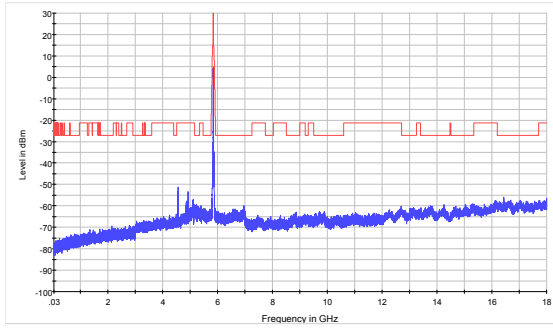
Frequency 5840MHz, 30M-18GHz



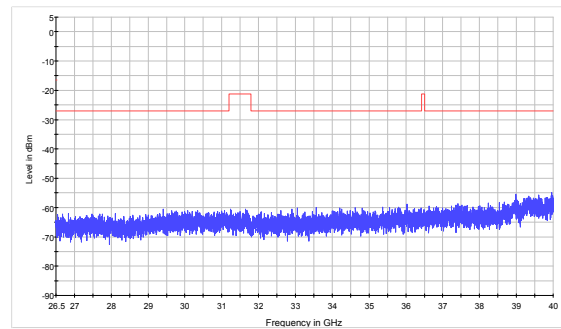
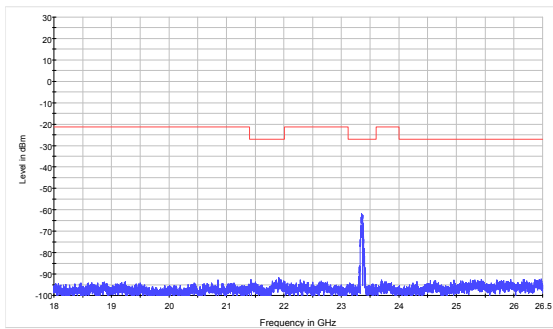
Frequency 5840MHz, 18G-26.5GHz

Frequency 5840MHz, 26.5G-40GHz

**Antenna 2****Frequency 5735MHz, 30M-18GHz****Frequency 5735MHz, 18G-26.5GHz****Frequency 5735MHz, 26.5G-40GHz****Frequency 5790MHz, 30M-18GHz****Frequency 5790MHz, 18G-26.5GHz****Frequency 5790MHz, 26.5G-40GHz**



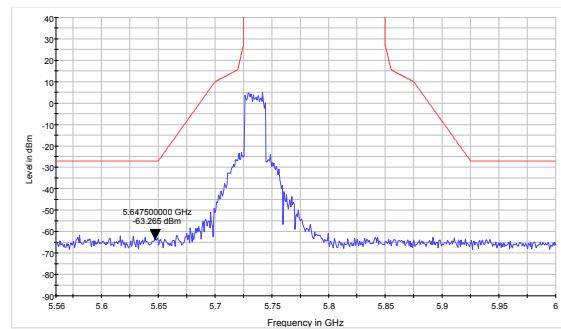
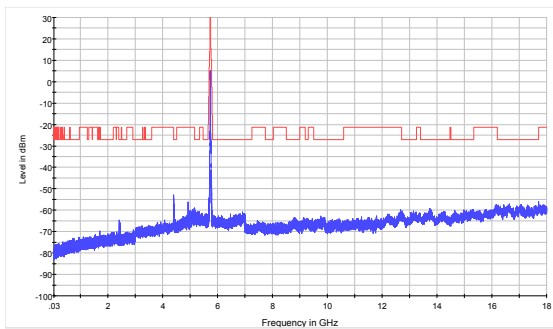
Frequency 5840MHz, 30M-18GHz



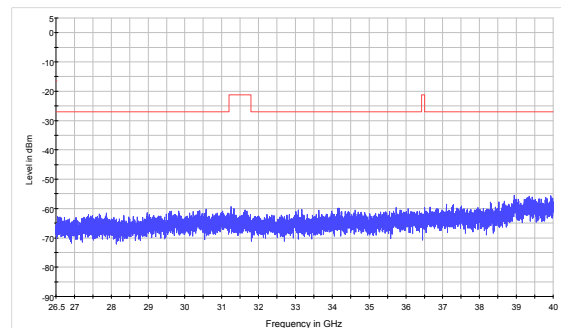
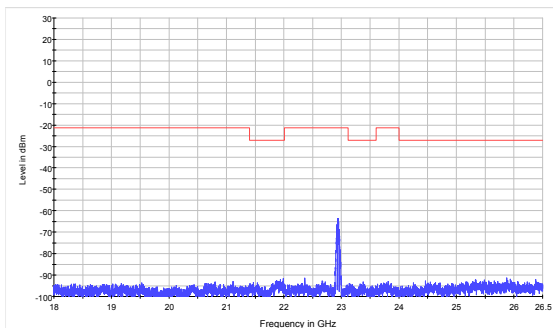
Frequency 5840MHz, 18G-26.5GHz

Frequency 5840MHz, 26.5G-40GHz

Antenna 3

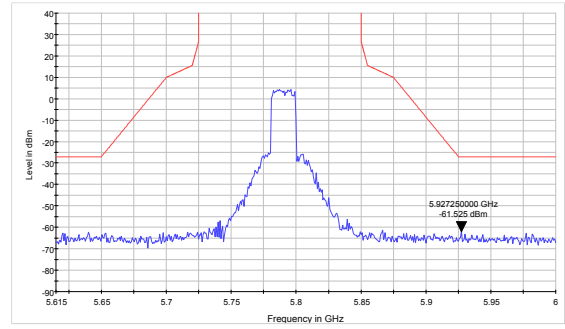
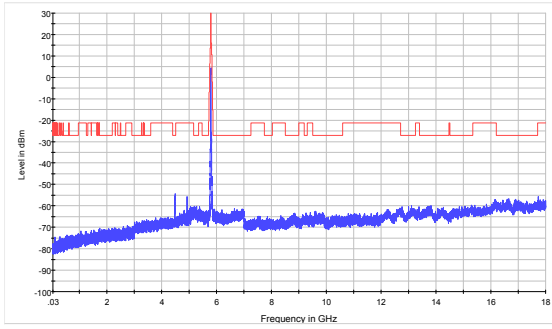


Frequency 5735MHz, 30M-18GHz

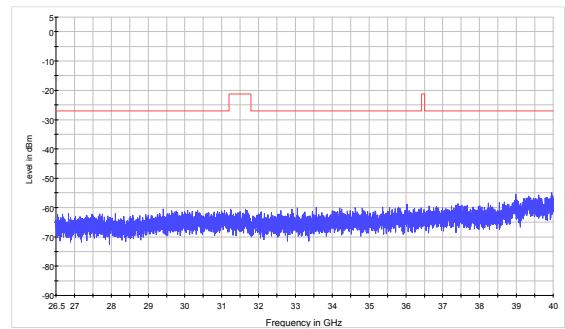
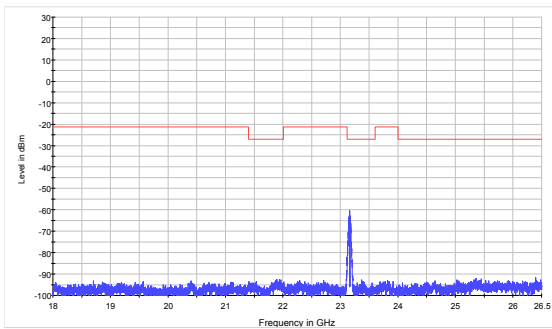


Frequency 5735MHz, 18G-26.5GHz

Frequency 5735MHz, 26.5G-40GHz

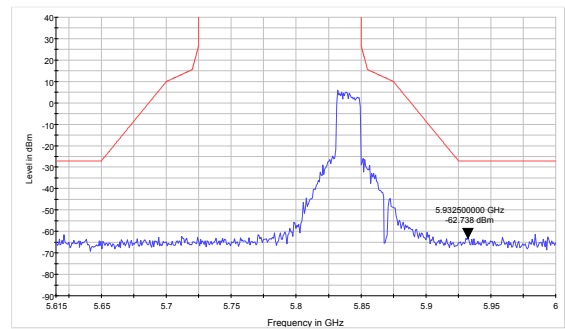
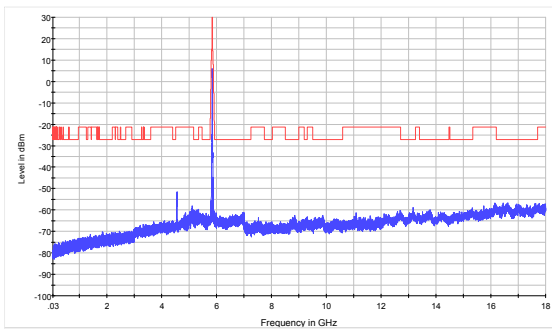


Frequency 5790MHz, 30M-18GHz

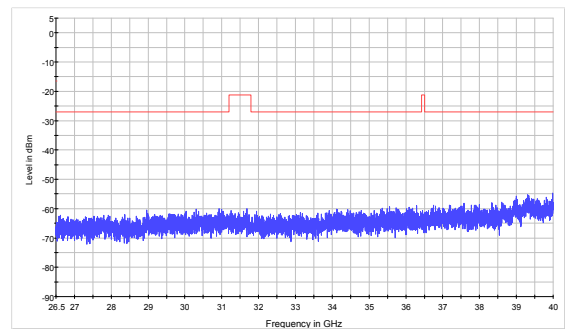
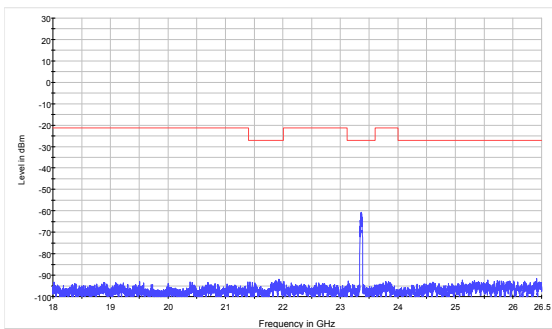


Frequency 5790MHz, 18G-26.5GHz

Frequency 5790MHz, 26.5G-40GHz

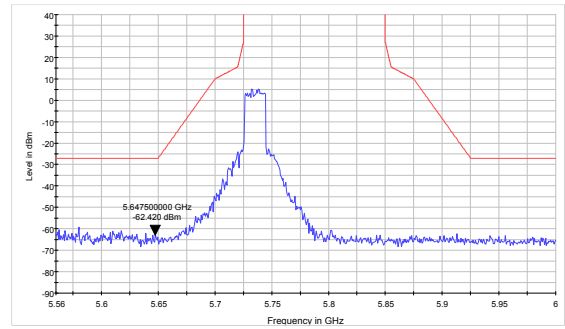
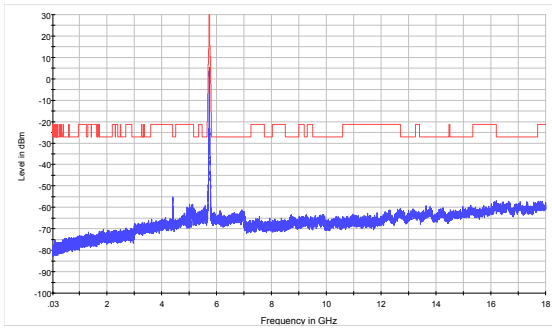
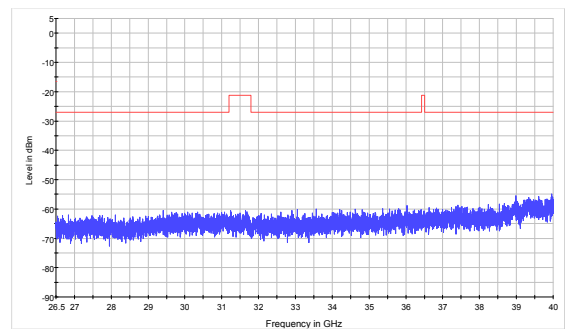
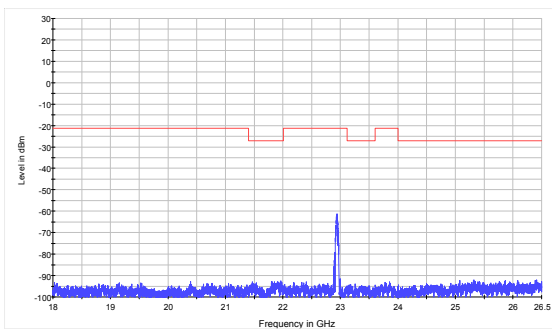
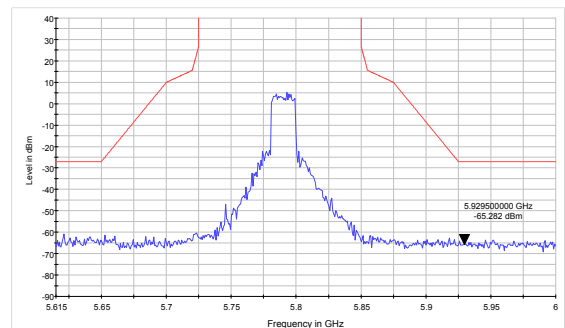
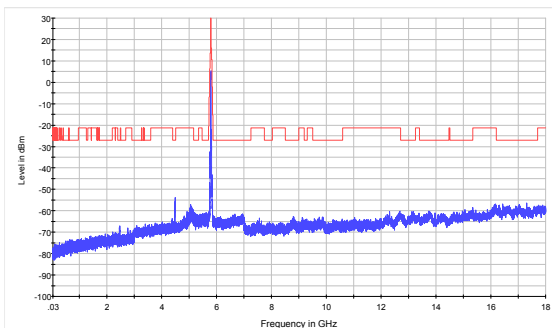
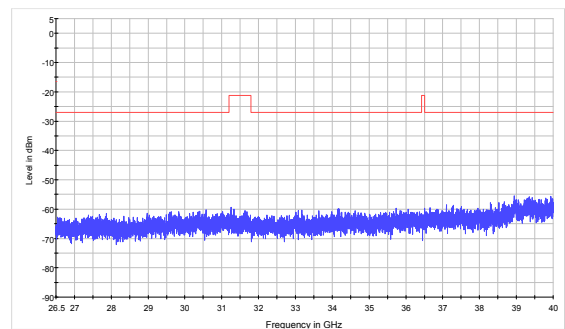
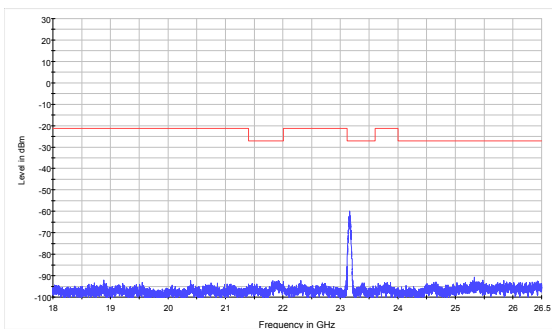


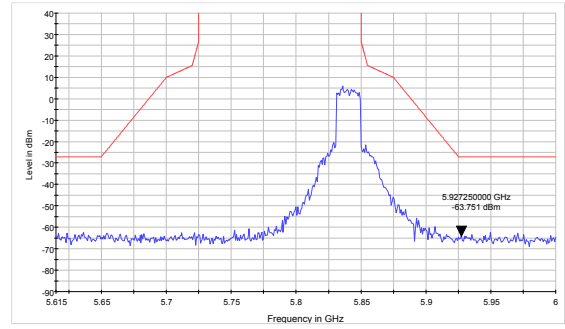
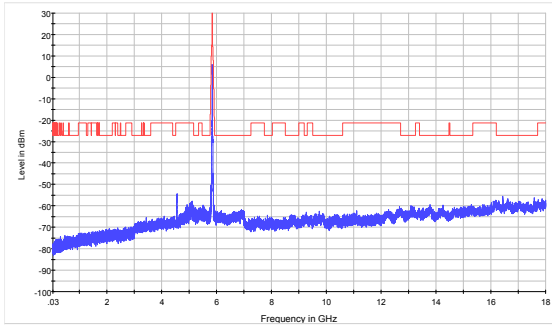
Frequency 5840MHz, 30M-18GHz



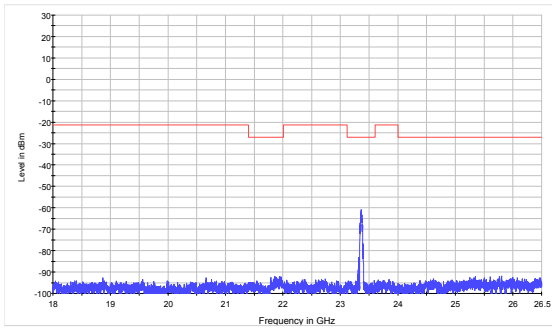
Frequency 5840MHz, 18G-26.5GHz

Frequency 5840MHz, 26.5G-40GHz

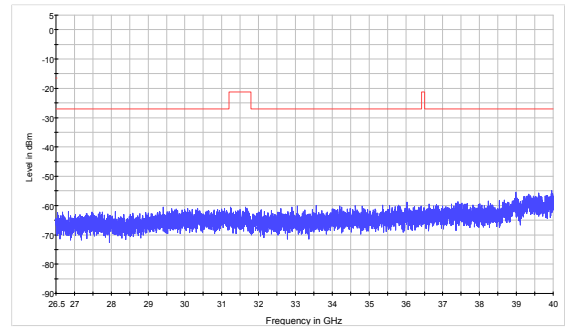
**Antenna 4****Frequency 5735MHz, 30M-18GHz****Frequency 5735MHz, 18G-26.5GHz****Frequency 5735MHz, 26.5G-40GHz****Frequency 5790MHz, 30M-18GHz****Frequency 5790MHz, 18G-26.5GHz****Frequency 5790MHz, 26.5G-40GHz**



Frequency 5840MHz, 30M-18GHz



Frequency 5840MHz, 18G-26.5GHz



Frequency 5840MHz, 26.5G-40GHz

5.7. Conducted Emission

Ambient condition

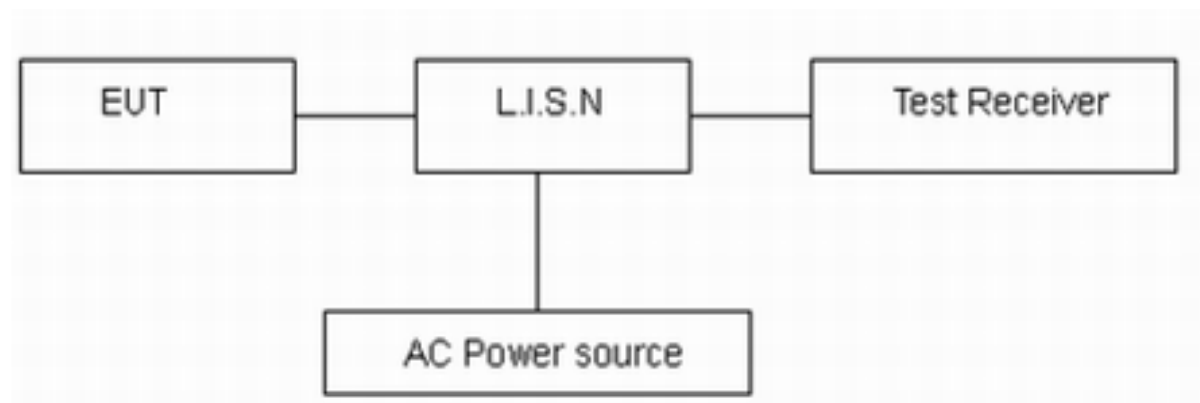
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

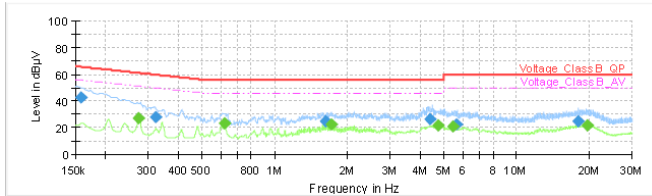
*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

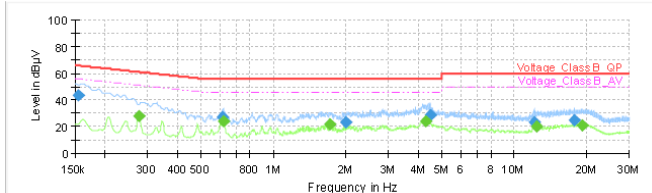
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

**Test Results:**

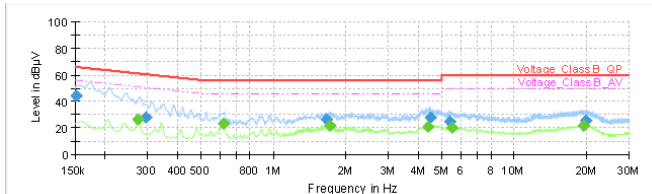
Following plots, Blue trace uses the peak detection and Green trace uses the average detection.

TM3**Antenna 1****Frequency 5735MHz, L Line****Final Result**

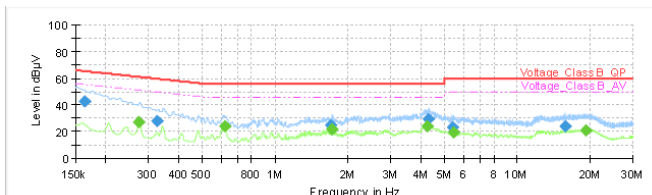
Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	43.01	---	65.52	22.51	1000.0	9.000	L1	ON	19.1
0.273750	---	27.50	51.00	23.51	1000.0	9.000	L1	ON	19.1
0.323250	28.11	---	59.62	31.51	1000.0	9.000	L1	ON	19.2
0.622500	---	22.97	46.00	23.03	1000.0	9.000	L1	ON	19.3
1.630500	24.55	---	56.00	31.45	1000.0	9.000	L1	ON	19.2
1.722750	---	22.36	46.00	23.64	1000.0	9.000	L1	ON	19.2
4.400250	26.61	---	56.00	29.39	1000.0	9.000	L1	ON	19.1
4.744500	---	21.33	46.00	24.67	1000.0	9.000	L1	ON	19.1
5.446500	---	20.93	50.00	29.07	1000.0	9.000	L1	ON	19.1
5.660250	22.87	---	60.00	37.13	1000.0	9.000	L1	ON	19.1
18.030750	24.82	---	60.00	35.18	1000.0	9.000	L1	ON	19.5
19.639500	---	21.55	50.00	28.45	1000.0	9.000	L1	ON	19.7

Frequency 5735MHz, N Line**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	43.69	---	65.75	22.07	1000.0	9.000	N	ON	19.1
0.276000	---	27.53	50.94	23.41	1000.0	9.000	N	ON	19.2
0.611250	27.15	---	56.00	28.85	1000.0	9.000	N	ON	19.3
0.622500	---	24.20	46.00	21.80	1000.0	9.000	N	ON	19.3
1.722750	---	21.77	46.00	24.23	1000.0	9.000	N	ON	19.2
1.988250	23.04	---	56.00	32.96	1000.0	9.000	N	ON	19.1
4.287750	---	24.01	46.00	21.99	1000.0	9.000	N	ON	19.1
4.740000	28.65	---	56.00	27.35	1000.0	9.000	N	ON	19.1
12.054750	23.29	---	60.00	36.71	1000.0	9.000	N	ON	19.4
12.441750	---	20.10	50.00	29.90	1000.0	9.000	N	ON	19.4
17.727000	25.12	---	60.00	34.88	1000.0	9.000	N	ON	19.5
19.236750	---	21.22	50.00	28.78	1000.0	9.000	N	ON	19.5

Frequency 5840MHz, L Line**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	44.24	---	65.88	21.64	1000.0	9.000	L1	ON	19.0
0.273750	---	26.61	51.00	24.40	1000.0	9.000	L1	ON	19.1
0.294000	28.08	---	60.41	32.33	1000.0	9.000	L1	ON	19.2
0.622500	---	23.25	46.00	22.75	1000.0	9.000	L1	ON	19.3
1.650750	26.05	---	56.00	29.95	1000.0	9.000	L1	ON	19.2
1.722750	---	22.08	46.00	23.92	1000.0	9.000	L1	ON	19.2
4.402500	---	21.13	46.00	24.87	1000.0	9.000	L1	ON	19.1
4.461000	27.87	---	56.00	28.13	1000.0	9.000	L1	ON	19.1
5.410500	24.79	---	60.00	35.21	1000.0	9.000	L1	ON	19.1
5.491500	---	20.43	50.00	29.57	1000.0	9.000	L1	ON	19.1
19.281750	---	21.43	50.00	28.57	1000.0	9.000	L1	ON	19.6
19.880250	25.36	---	60.00	34.64	1000.0	9.000	L1	ON	19.7

Frequency 5840MHz, N Line**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.163500	42.55	---	65.28	22.74	1000.0	9.000	N	ON	19.1
0.273750	---	27.28	51.00	23.72	1000.0	9.000	N	ON	19.1
0.325500	28.15	---	59.57	31.41	1000.0	9.000	N	ON	19.2
0.622500	---	24.14	46.00	21.86	1000.0	9.000	N	ON	19.3
1.700250	24.73	---	56.00	31.27	1000.0	9.000	N	ON	19.2
1.722750	---	21.91	46.00	24.09	1000.0	9.000	N	ON	19.2
4.258500	---	24.07	46.00	21.93	1000.0	9.000	N	ON	19.1
4.276500	29.60	---	56.00	26.40	1000.0	9.000	N	ON	19.1
5.421750	23.27	---	60.00	36.73	1000.0	9.000	N	ON	19.1
5.480250	---	19.73	50.00	30.27	1000.0	9.000	N	ON	19.1
15.758250	24.33	---	60.00	35.67	1000.0	9.000	N	ON	19.4
19.216500	---	21.29	50.00	28.71	1000.0	9.000	N	ON	19.5

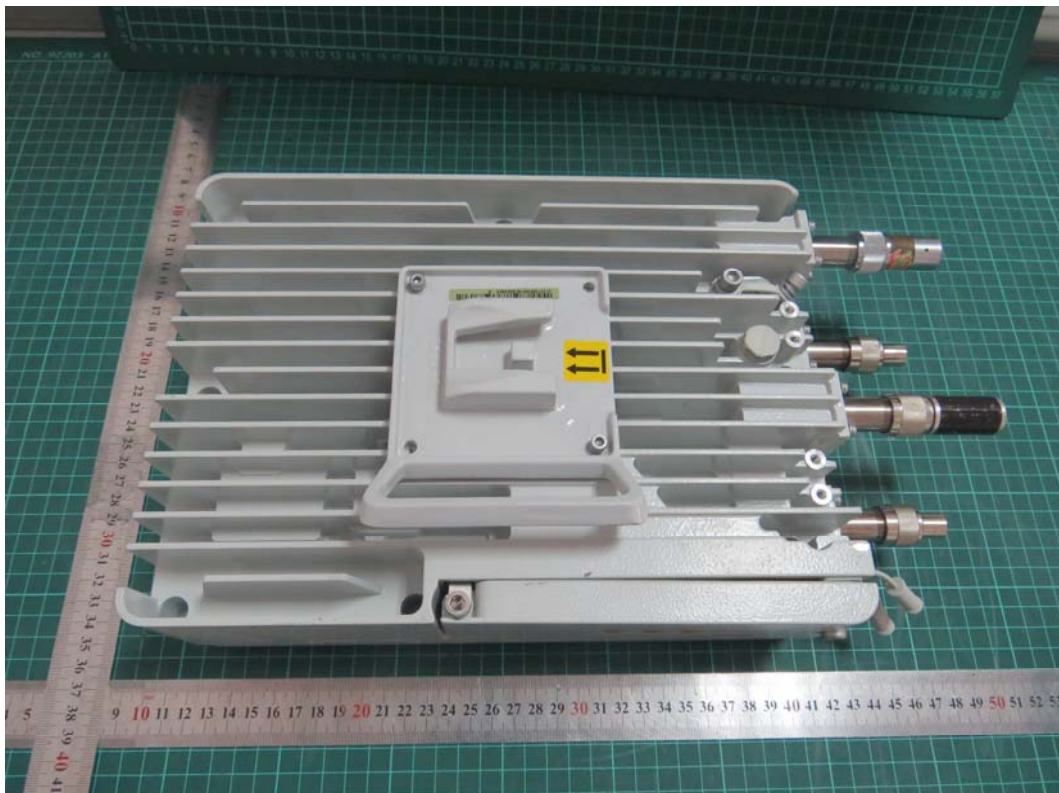
6. Main Test Instruments

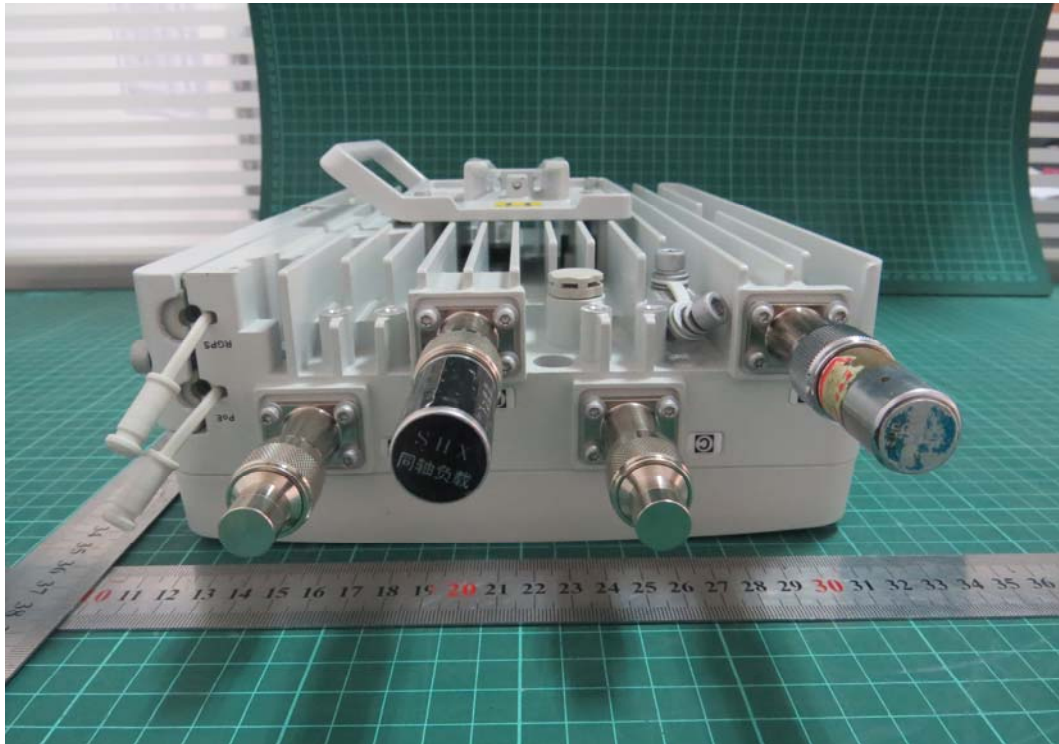
Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	FSV30	R&S	100815	2016-12-16	2017-12-15
EMI Test Receiver	ESCI	R&S	100948	2017-05-20	2018-05-19
Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2017-02-18	2020-02-17
TRILOG Broadband Antenna	VULB 9163	Schwarzbeck	9163-201	2014-12-06	2017-12-05
Double Ridged Waveguide Horn Antenna	HF907	R&S	100126	2014-12-06	2017-12-05
Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-01-30	2018-01-29
Broadband Horn Antenna	BBHA9170	Schwarzbeck	MRTSUE06024	2016-11-24	2019-11-23
EMI Test Receiver	ESCS30	R&S	100138	2016-12-16	2017-12-15
LISN	ENV216	R&S	101171	2016-12-16	2017-12-15
Spectrum Analyzer	N9010A	Agilent	MY47191109	2017-05-21	2018-05-20
RF Cable	SMA 15cm	Agilent	0001	2017-02-06	2017-08-05

*****END OF REPORT *****

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance





a: EUT



b: Adapter

Picture 1 EUT and Accessory

A.2 Test Setup



30MHz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup