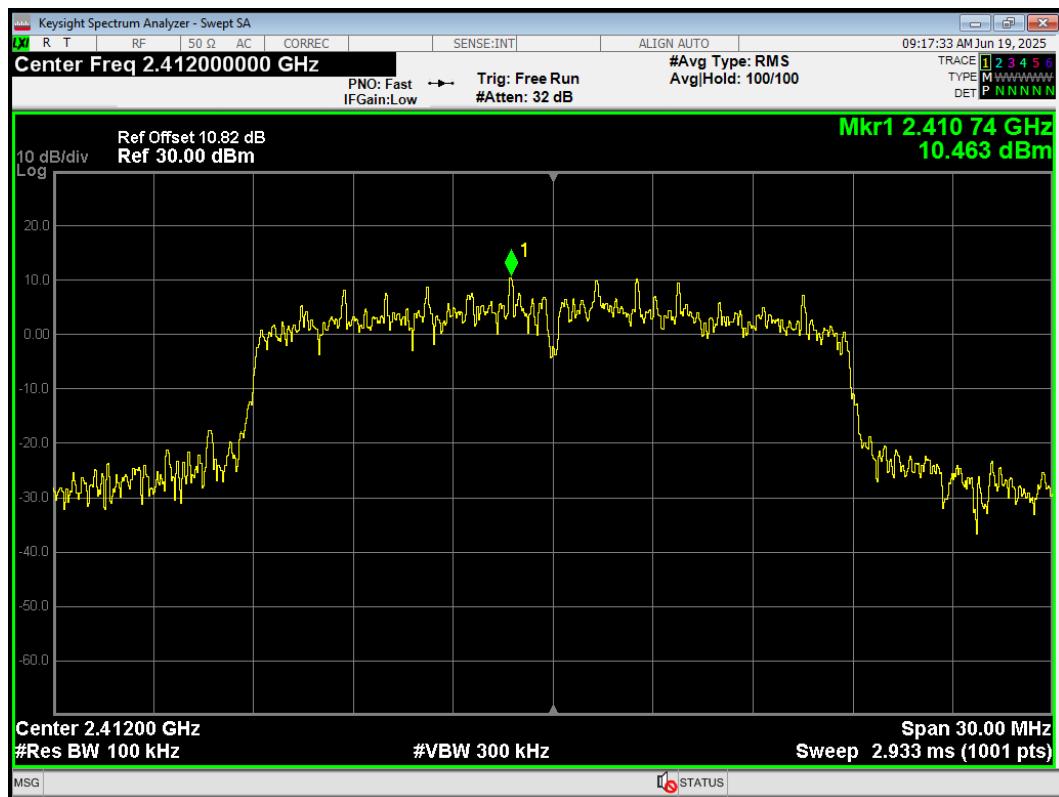
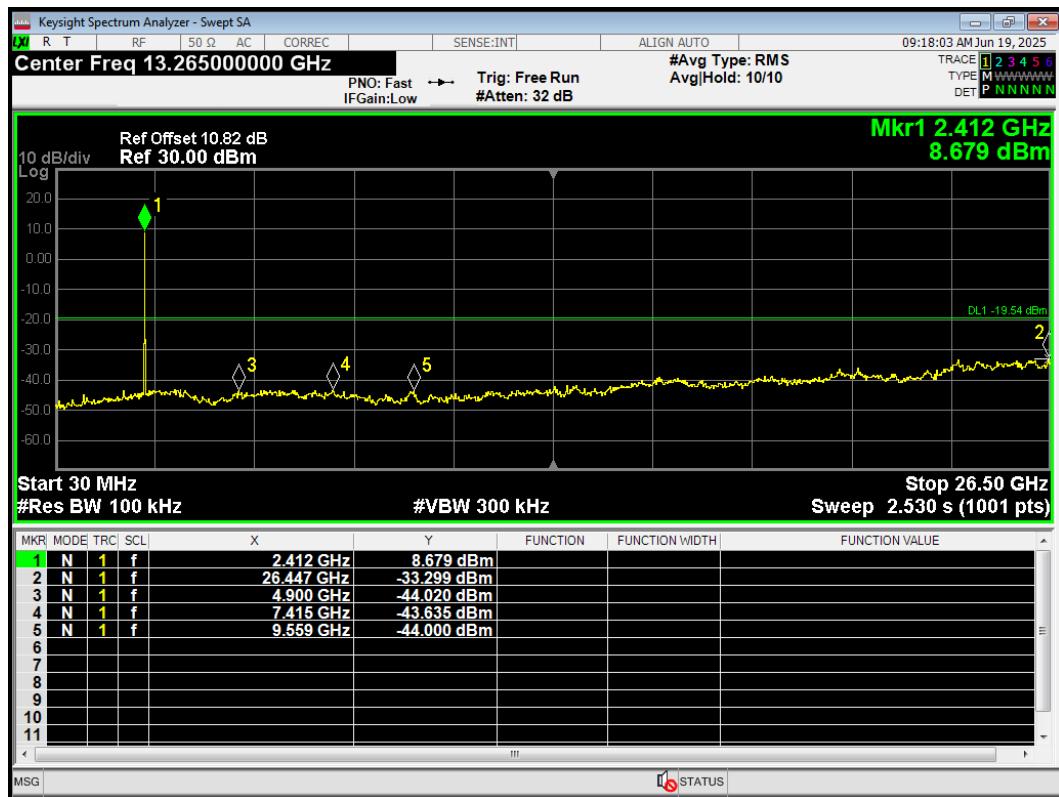


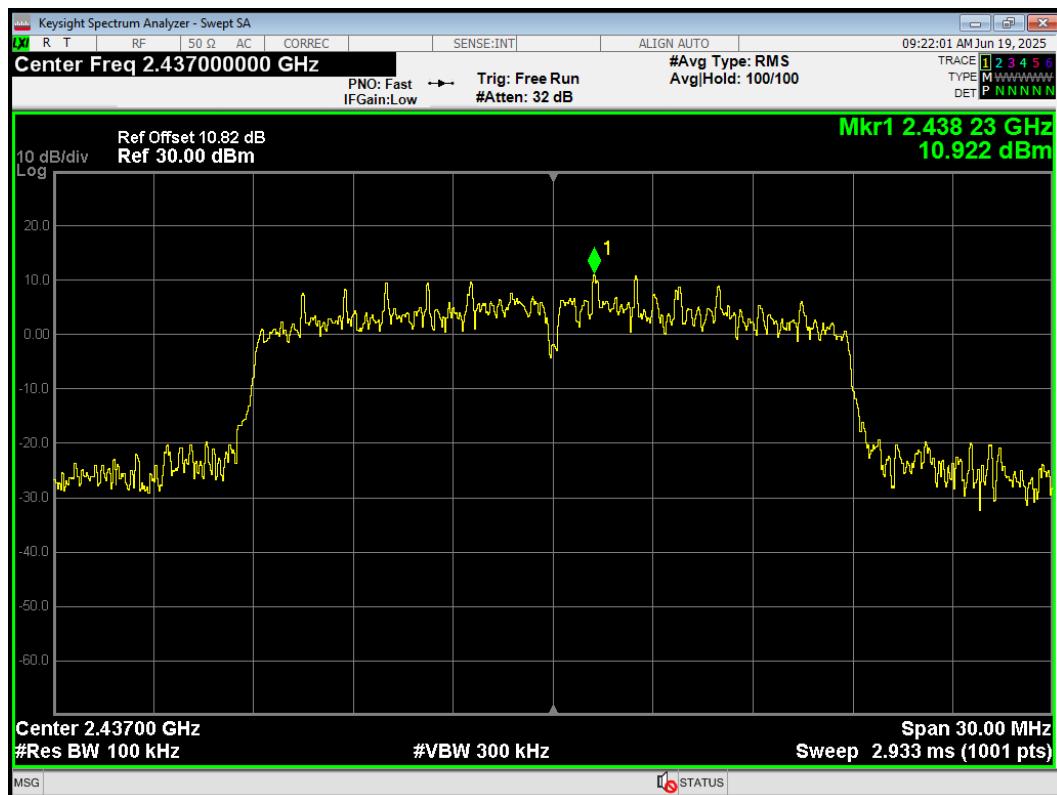
## Tx. Spurious 802.11n(HT20) 2412MHz Ref



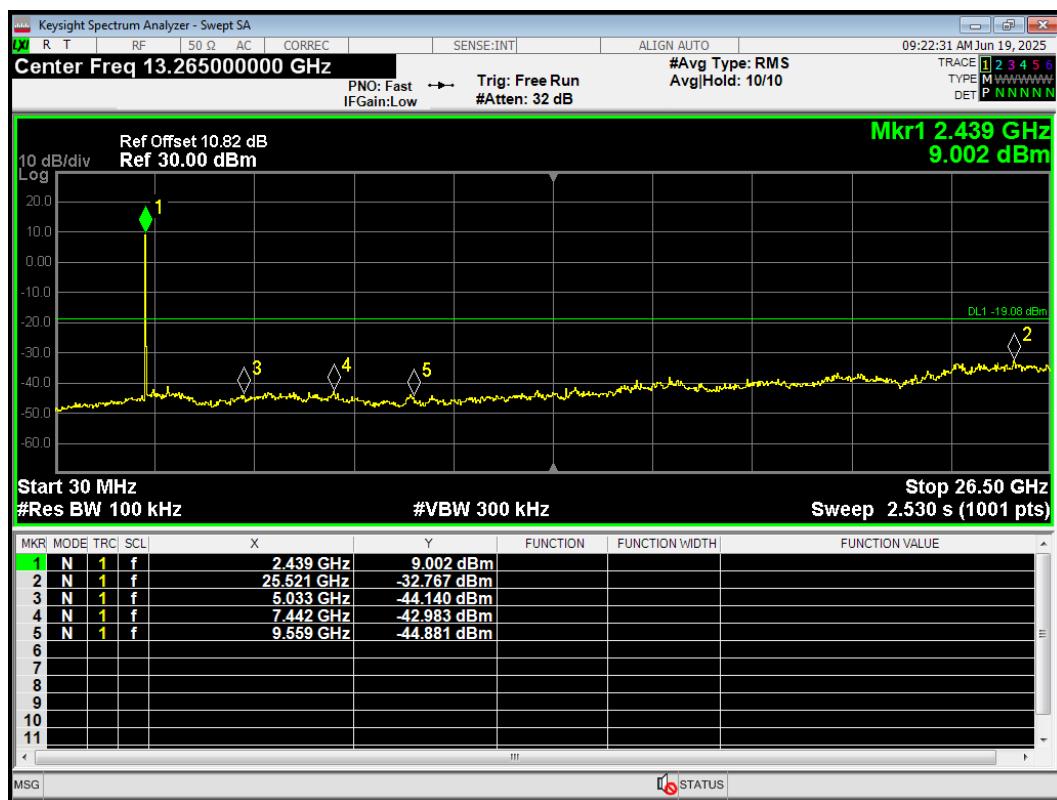
## Tx. Spurious 802.11n(HT20) 2412MHz Emission



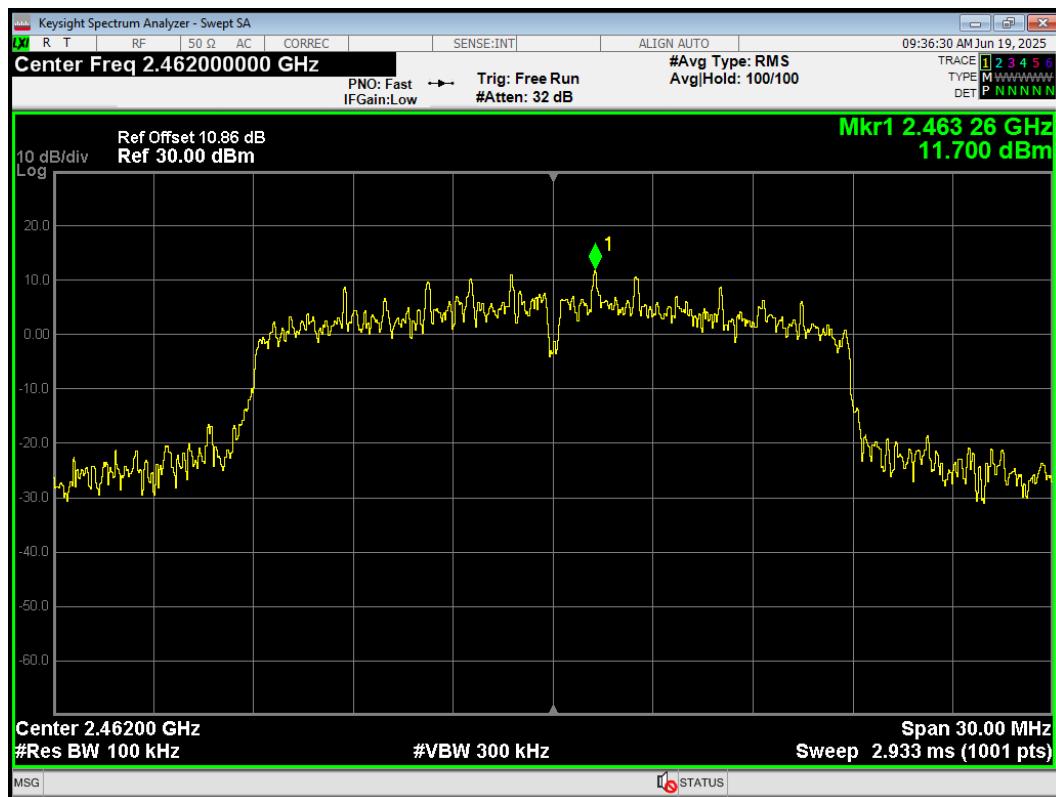
## Tx. Spurious 802.11n(HT20) 2437MHz Ref



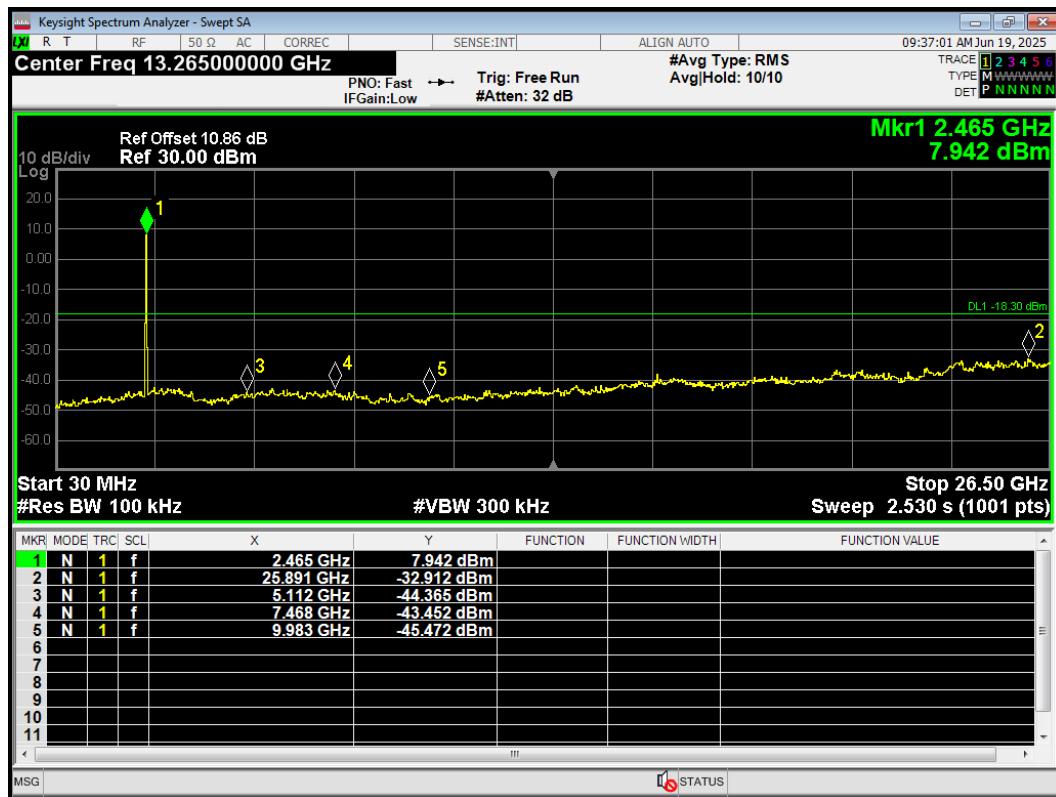
## Tx. Spurious 802.11n(HT20) 2437MHz Emission



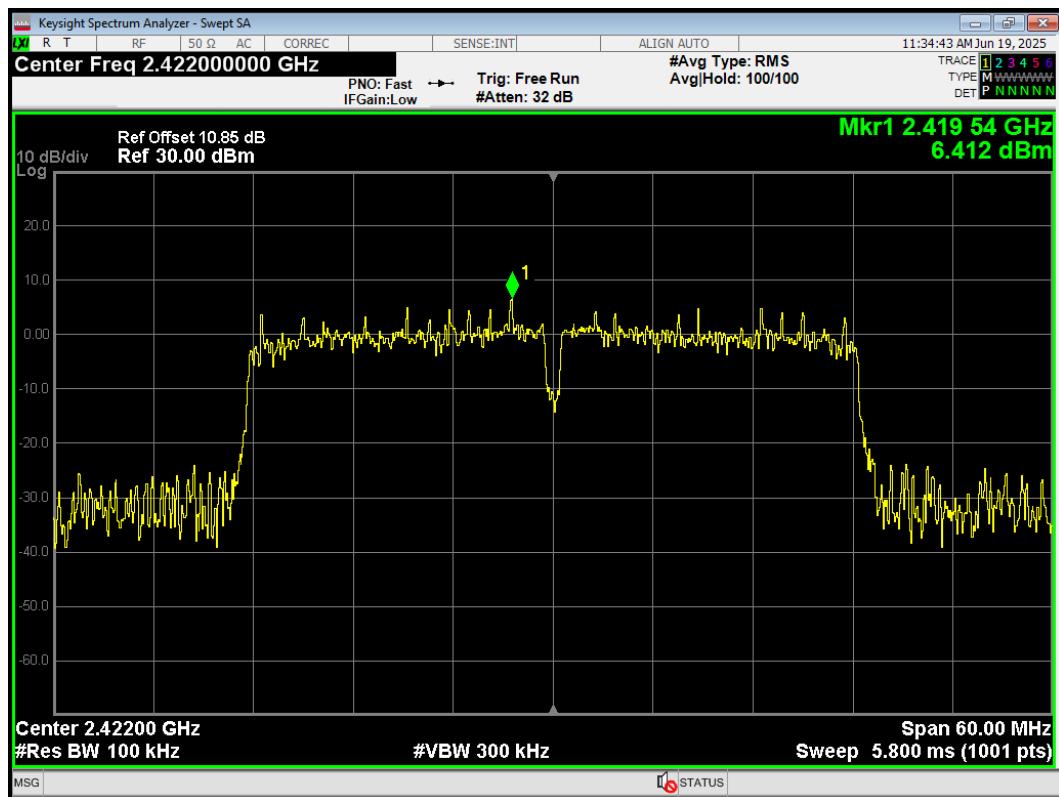
## Tx. Spurious 802.11n(HT20) 2462MHz Ref



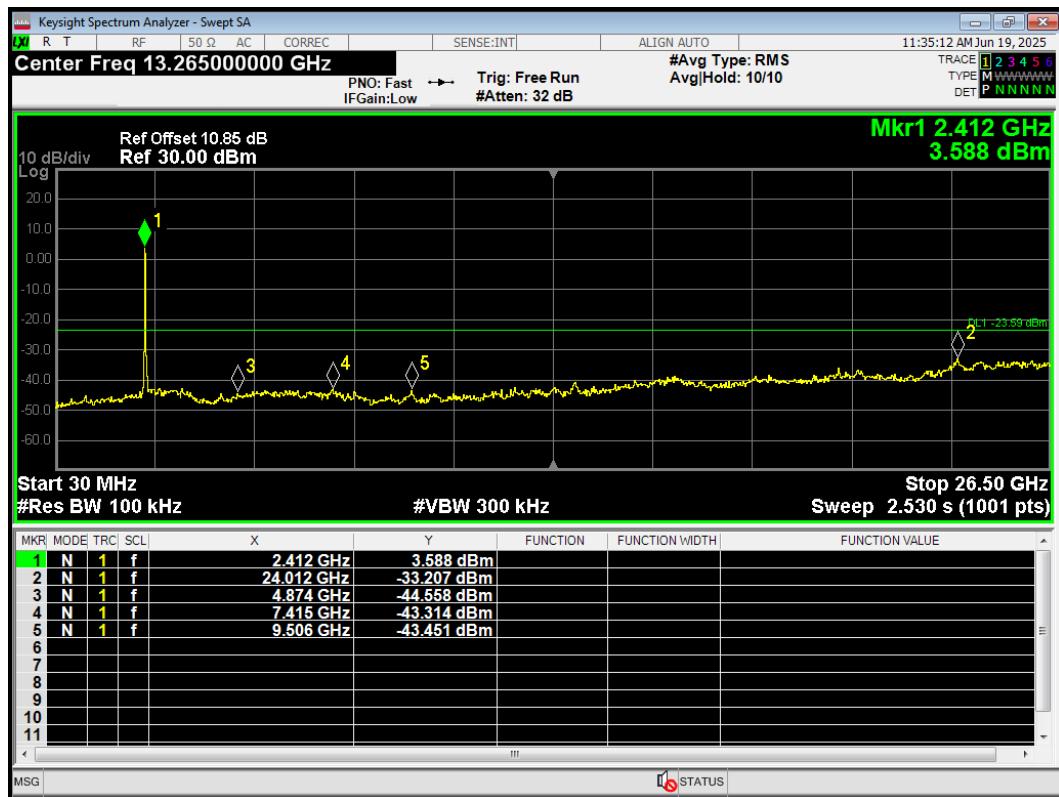
## Tx. Spurious 802.11n(HT20) 2462MHz Emission

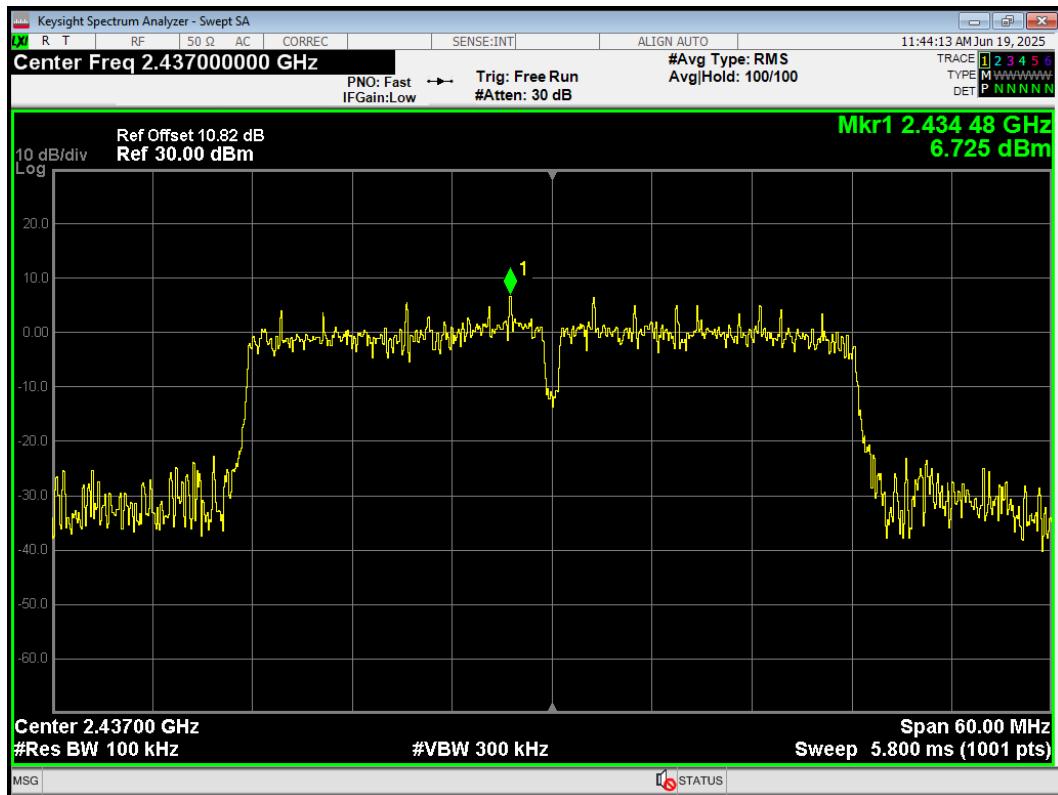
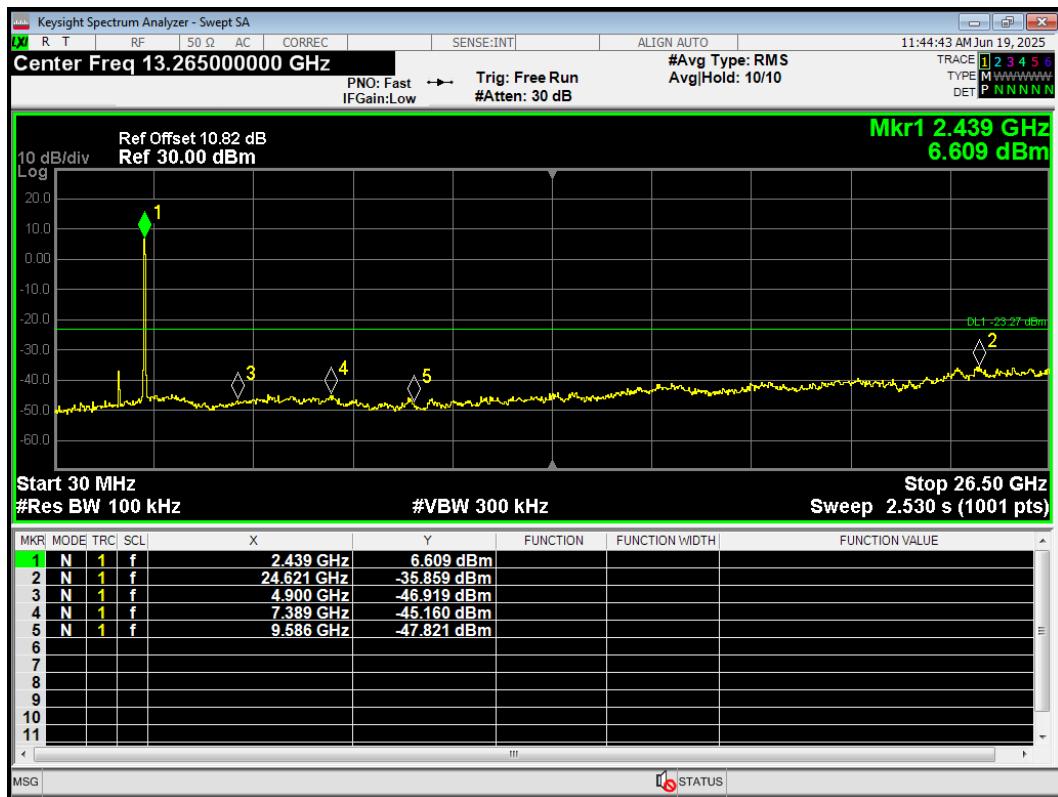


## Tx. Spurious 802.11n(HT40) 2422MHz Ref

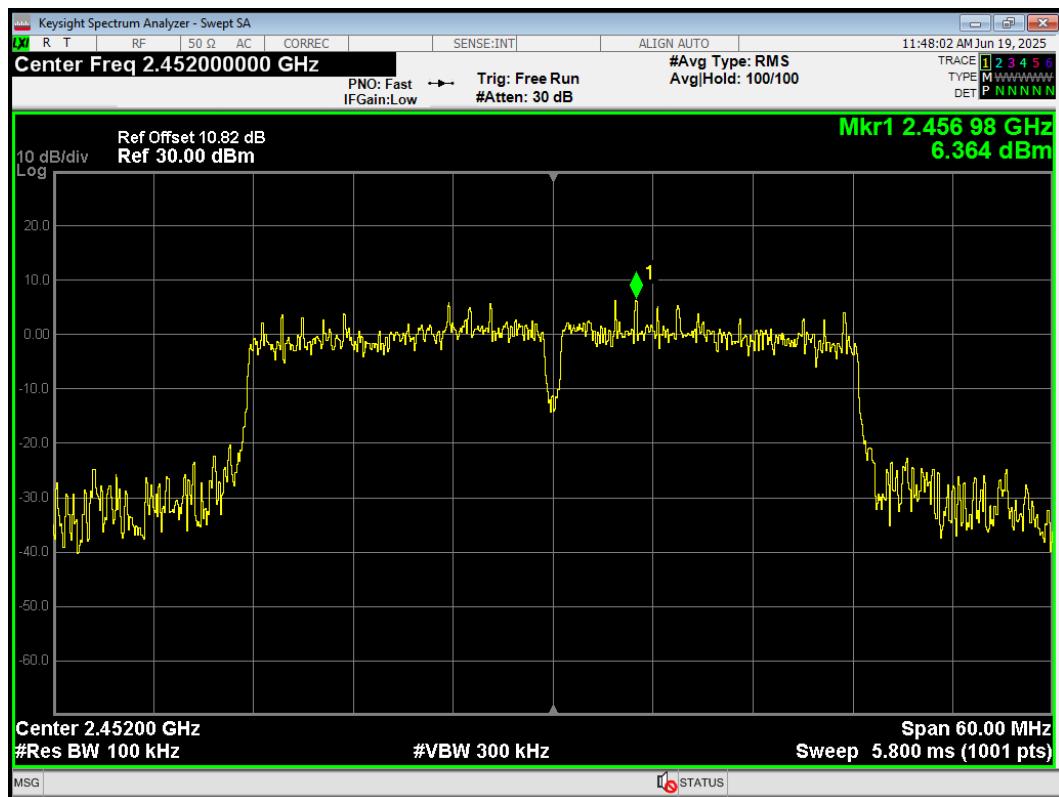


## Tx. Spurious 802.11n(HT40) 2422MHz Emission

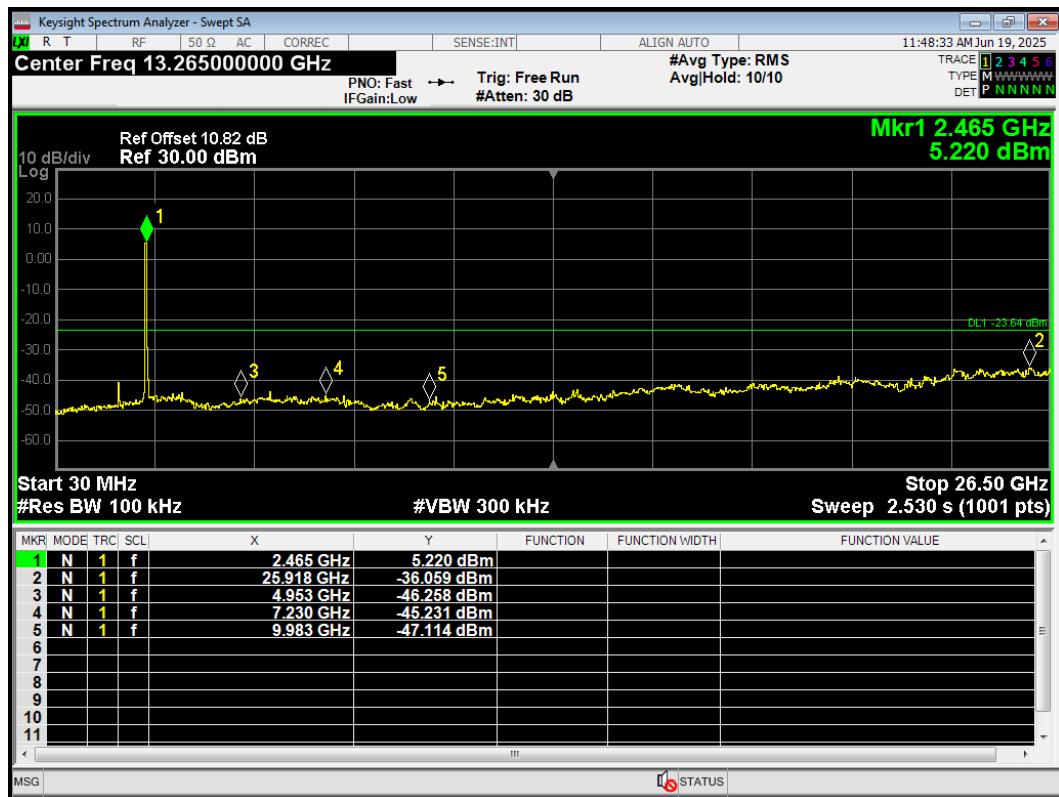


**Tx. Spurious 802.11n(HT40) 2437MHz Ref**

**Tx. Spurious 802.11n(HT40) 2437MHz Emission**


## Tx. Spurious 802.11n(HT40) 2452MHz Ref

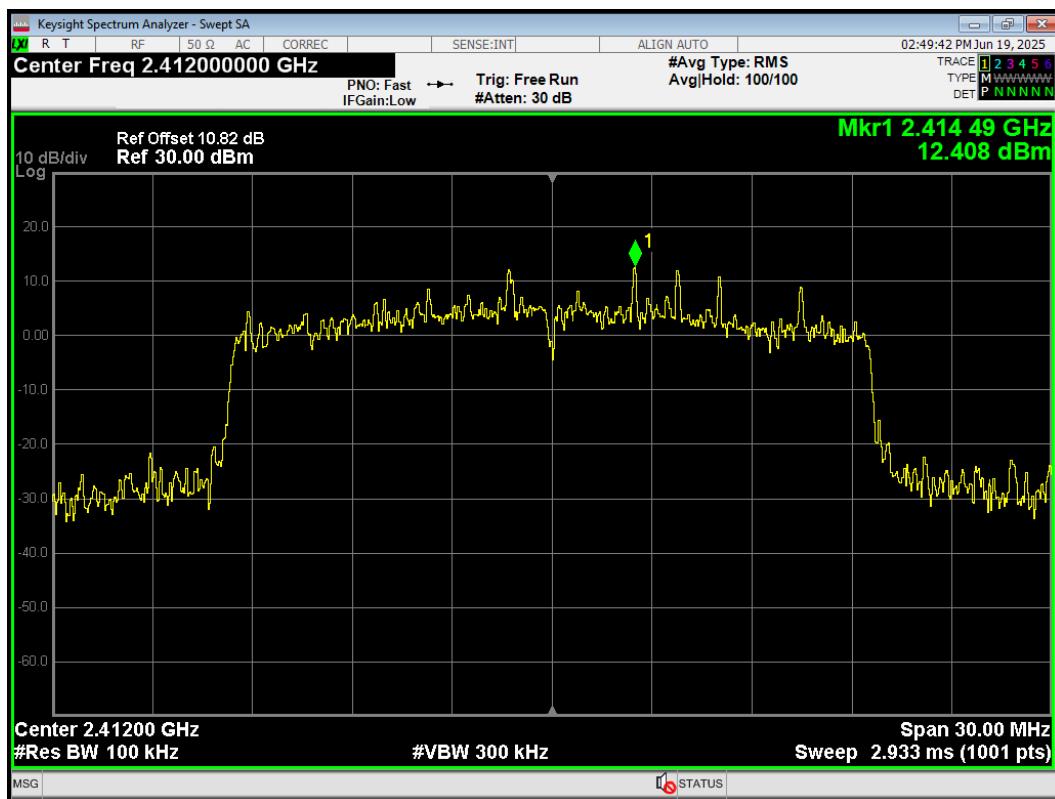


## Tx. Spurious 802.11n(HT40) 2452MHz Emission

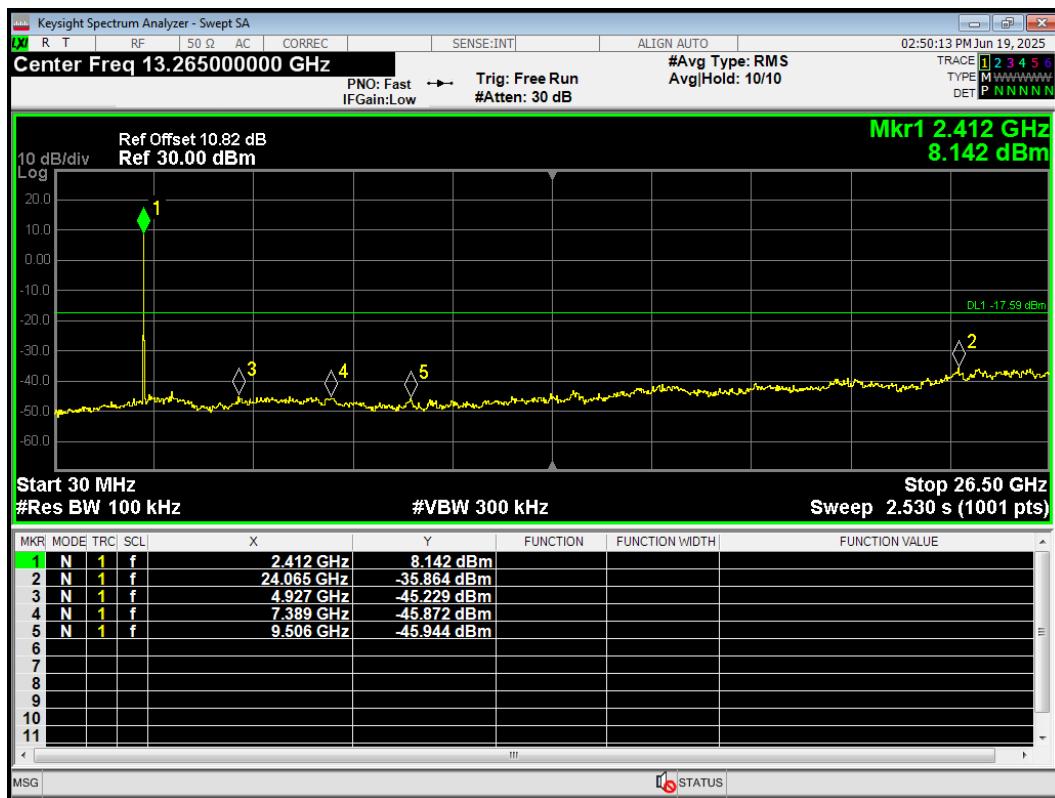


## ERSU Mode

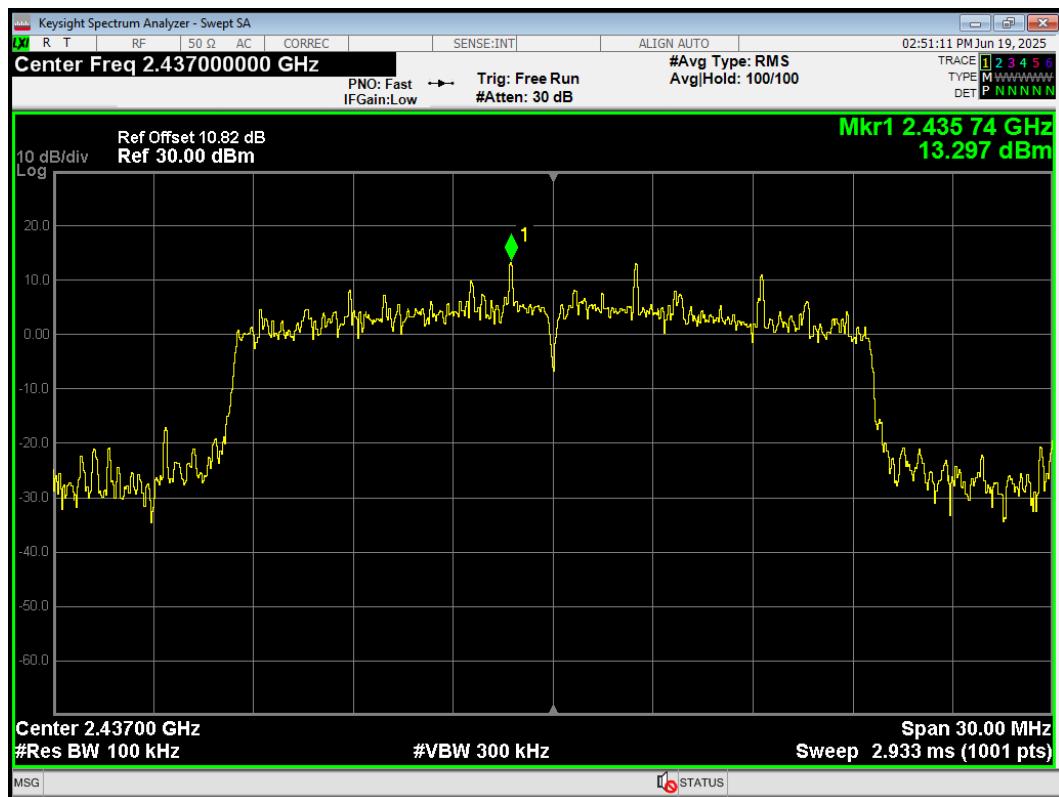
## Tx. Spurious 802.11ax HE20 242-Tones 2412MHz Ref



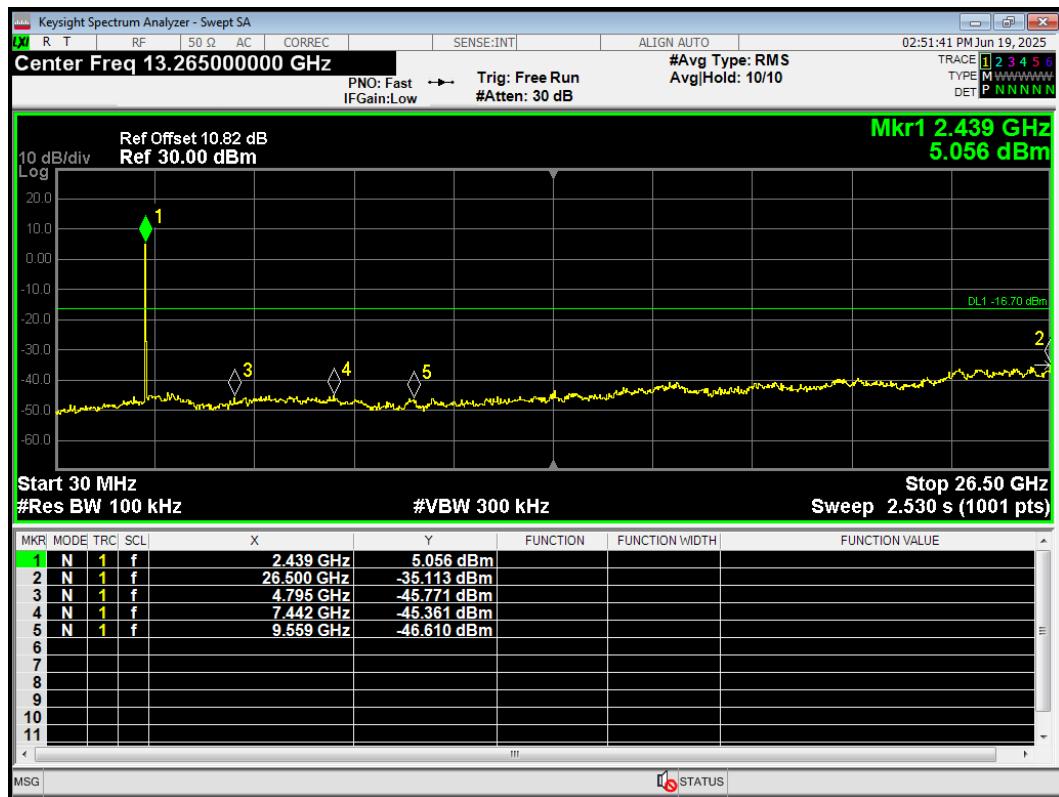
## Tx. Spurious 802.11ax HE20 242-Tones 2412MHz Emission



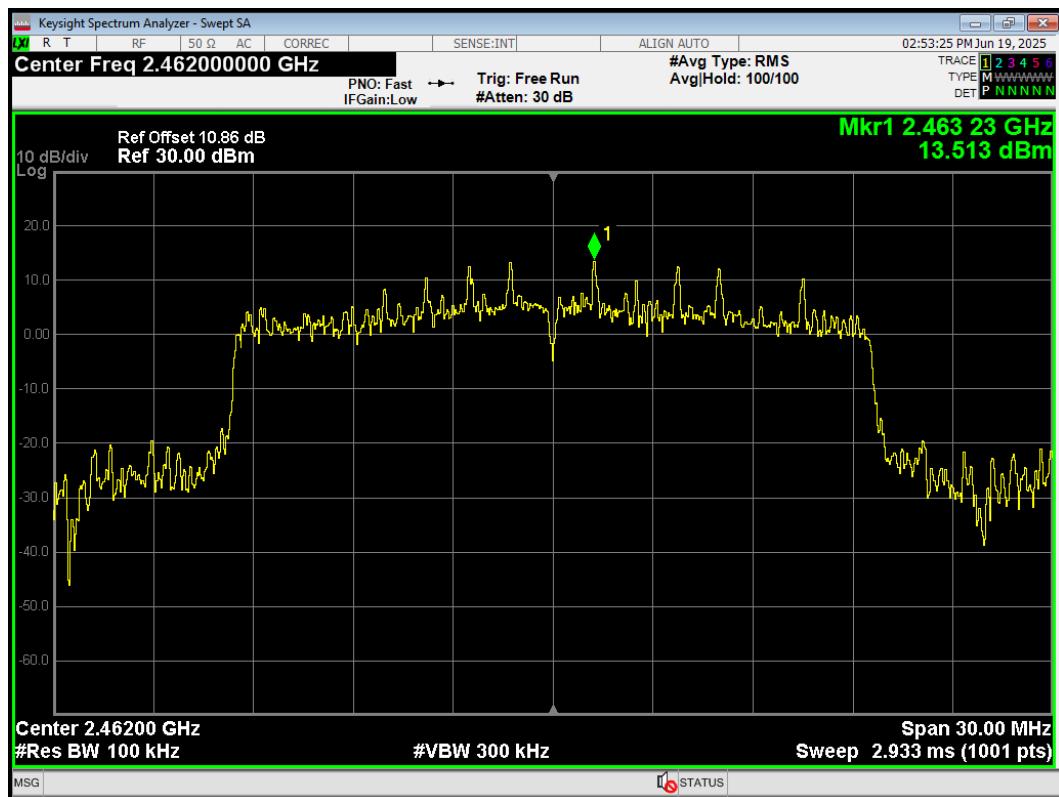
## Tx. Spurious 802.11ax HE20 242-Tones 2437MHz Ref



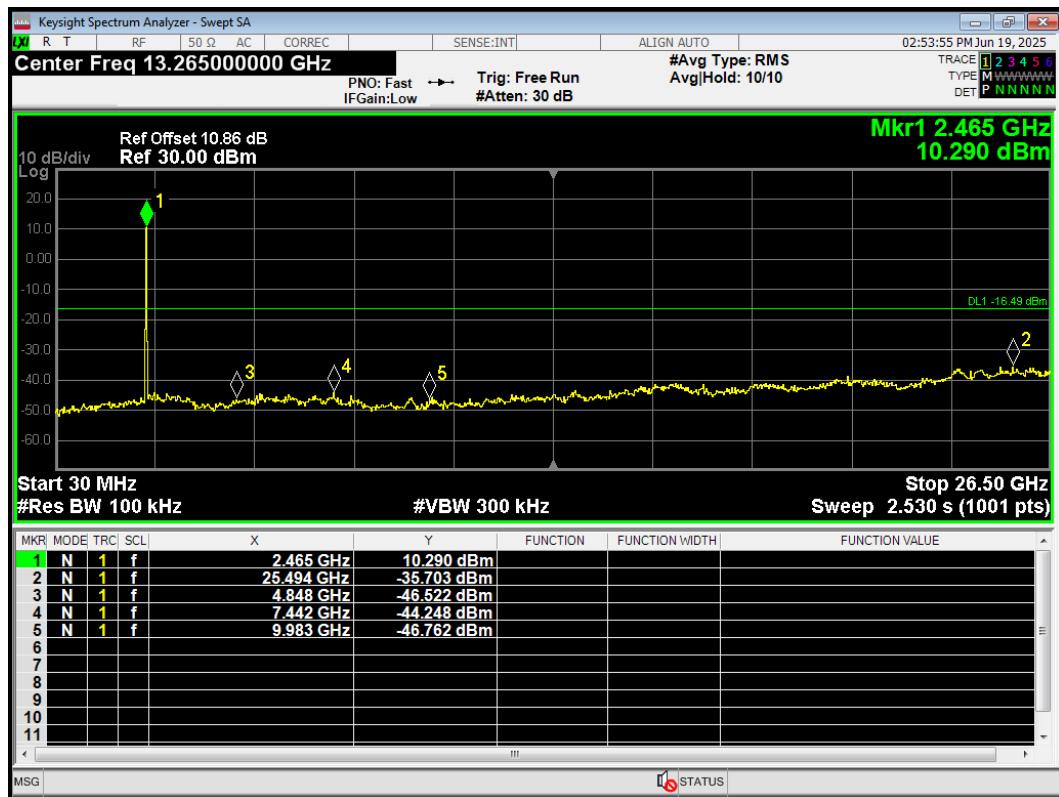
## Tx. Spurious 802.11ax HE20 242-Tones 2437MHz Emission



## Tx. Spurious 802.11ax HE20 242-Tones 2462MHz Ref



## Tx. Spurious 802.11ax HE20 242-Tones 2462MHz Emission



## 5.6. Unwanted Emission

### Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

### Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.

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 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. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

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

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

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

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is  $[10 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

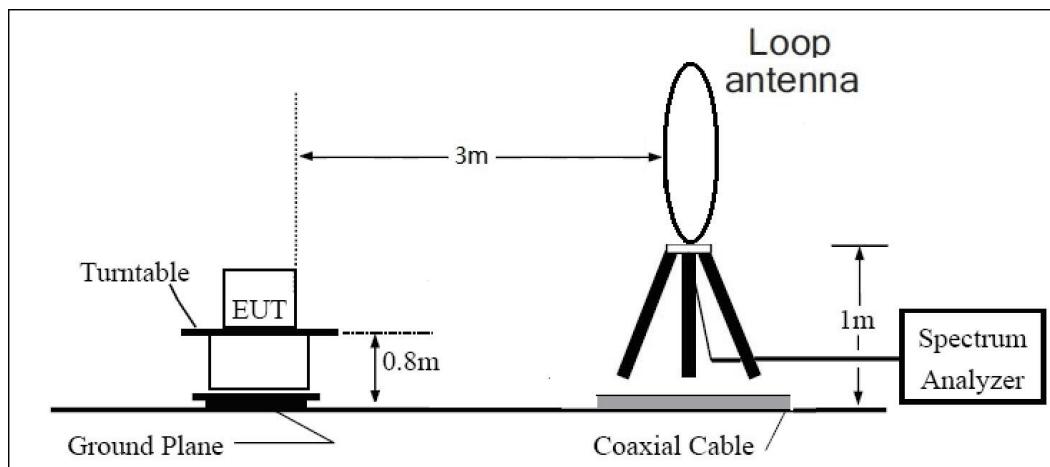
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is  $[20 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

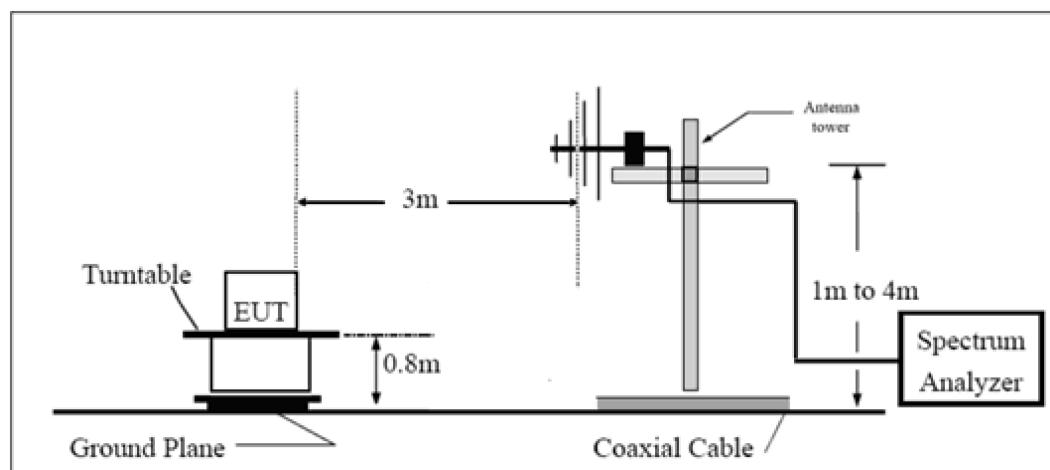
The test is in transmitting mode.

## Test Setup

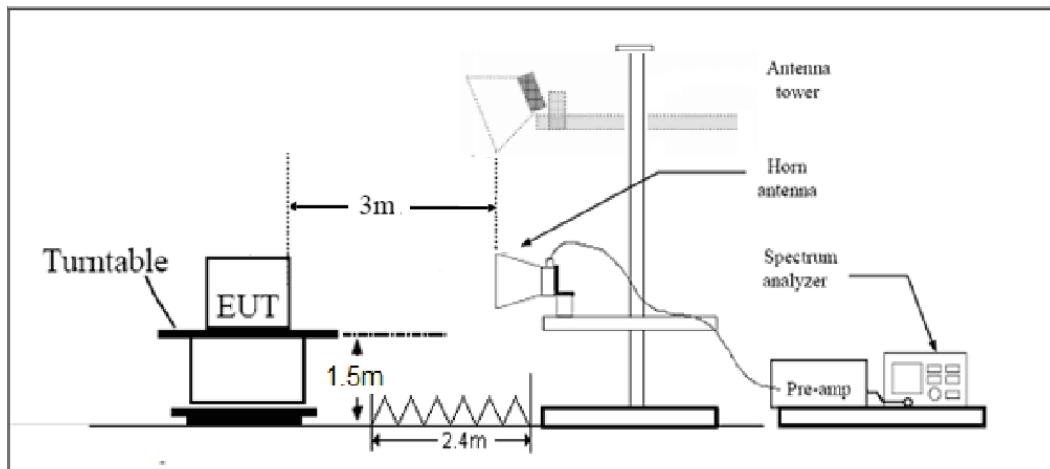
9kHz~30MHz



30MHz~1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

**Limits**

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength( $\mu$ V/m)	Field strength(dB $\mu$ V/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

**§15.35(b)**

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dB $\mu$ V/m

Average Limit=54 dB $\mu$ V/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 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	( <sup>2</sup> )
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	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

**Test Results:**

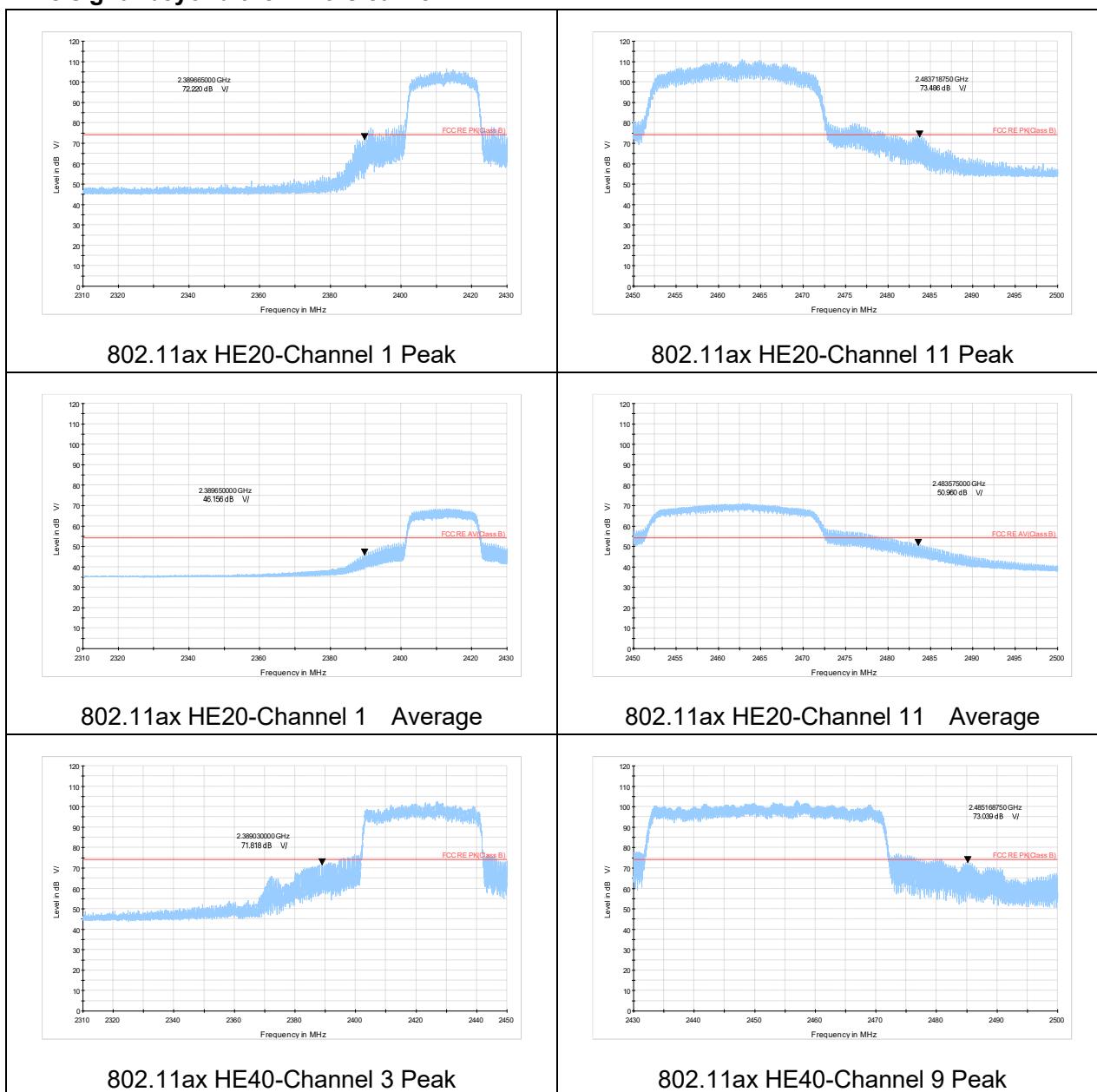
The following graphs display the maximum values of horizontal and vertical by software.

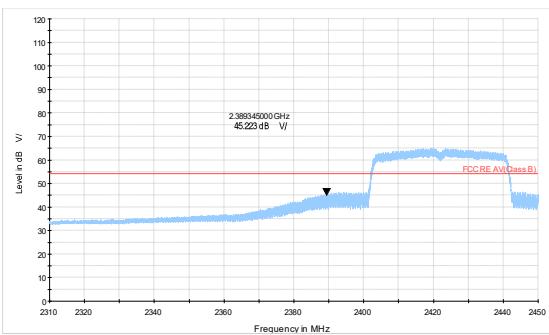
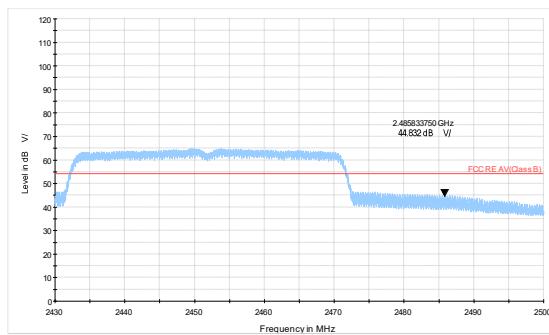
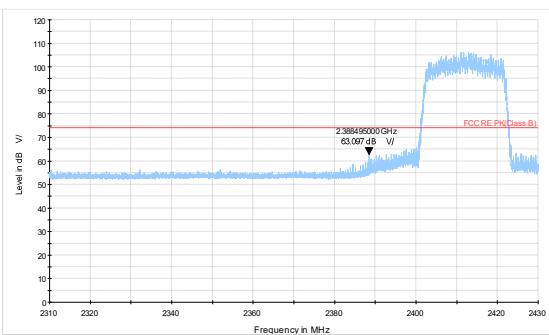
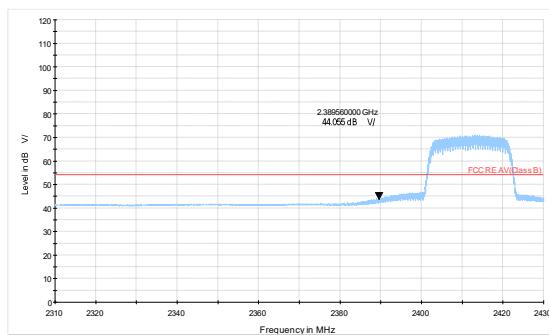
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (Y axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

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

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

**The signal beyond the limit is carrier.**




**802.11ax HE40-Channel 3 Average**

**802.11ax HE40-Channel 9 Average**
**ERSU Mode**

**802.11ax HE20-Channel 1 Peak**

**802.11ax HE20-Channel 1 Average**

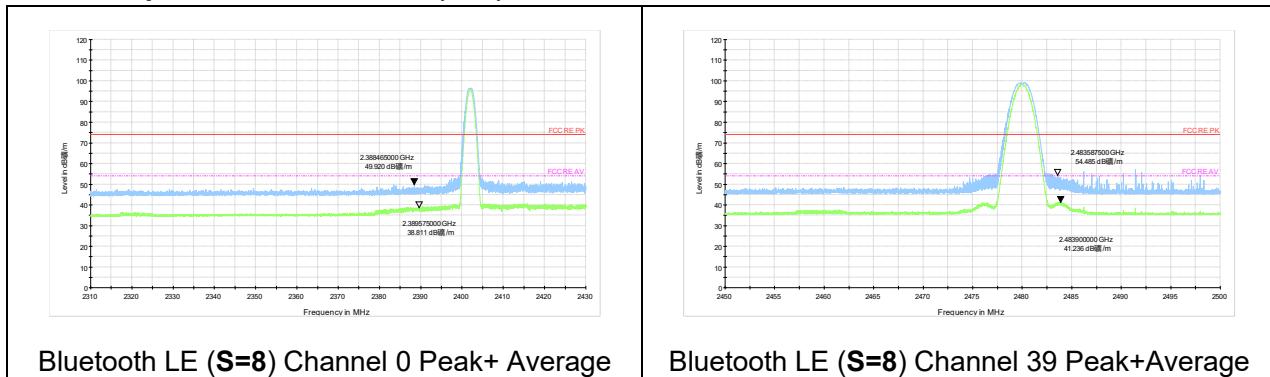
**Bluetooth**

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 loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

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

**The signal beyond the limit is carrier.**

**After the pretest, Bluetooth LE (S=8) was selected as the worst Mode for Bluetooth LE.**



**Result of RE**

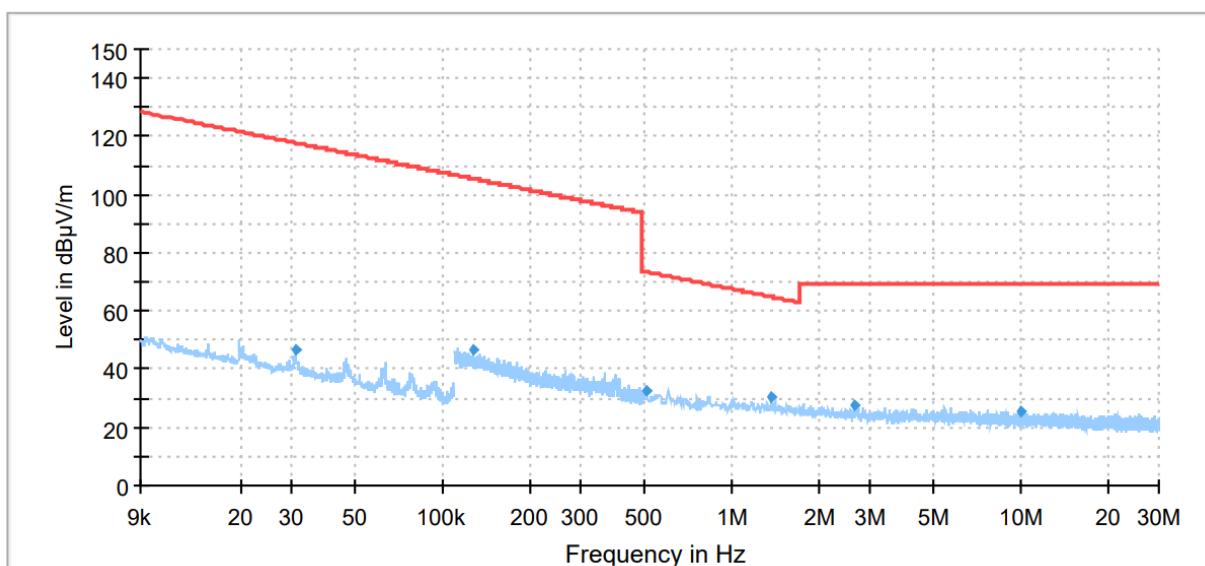
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier. The Radiates Emission from 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

**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**

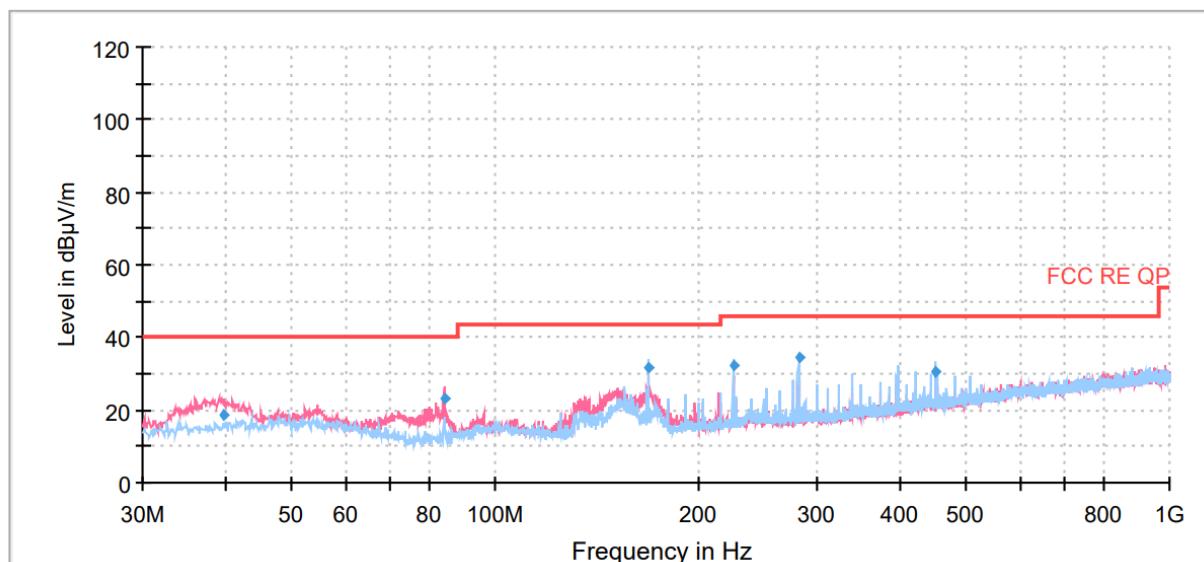

**Continuous TX mode:**
**Wi-Fi 2.4GHz**

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 (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Azimuth (deg)	Corr. (dB/m)
0.03	46.36	117.79	71.42	500.00	0.200	95.00	17
0.13	46.92	105.47	58.55	150.00	9.000	72.00	17
0.50	32.22	73.54	41.32	150.00	9.000	98.00	17
1.38	30.22	64.83	34.61	150.00	9.000	1.00	17
2.64	27.71	69.50	41.79	150.00	9.000	344.00	17
10.01	25.81	69.50	43.69	150.00	9.000	110.00	17

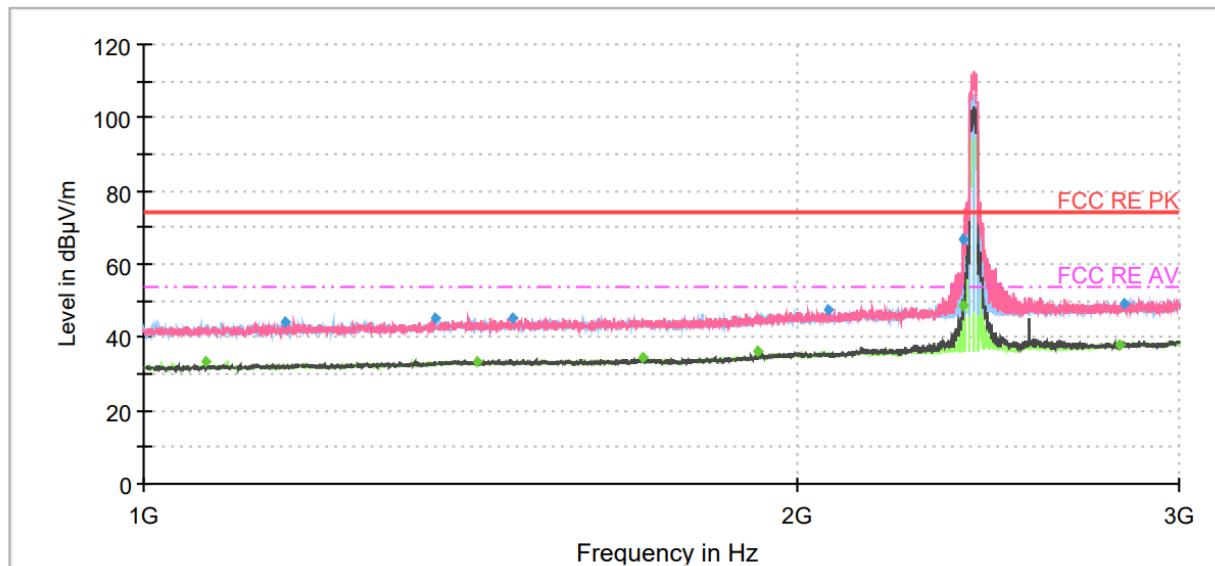
Radiates Emission from 9kHz to 30MHz



## Final Result

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.58	18.64	40.00	21.36	1000.00	104.0	V	328.00	19
83.96	23.43	40.00	16.57	1000.00	122.0	V	271.00	15
168.95	31.96	43.50	11.54	1000.00	223.0	H	0.00	16
225.33	32.32	46.00	13.68	1000.00	120.0	H	143.00	19
281.84	34.45	46.00	11.55	1000.00	111.0	H	74.00	20
450.86	30.82	46.00	15.18	1000.00	102.0	H	135.00	24

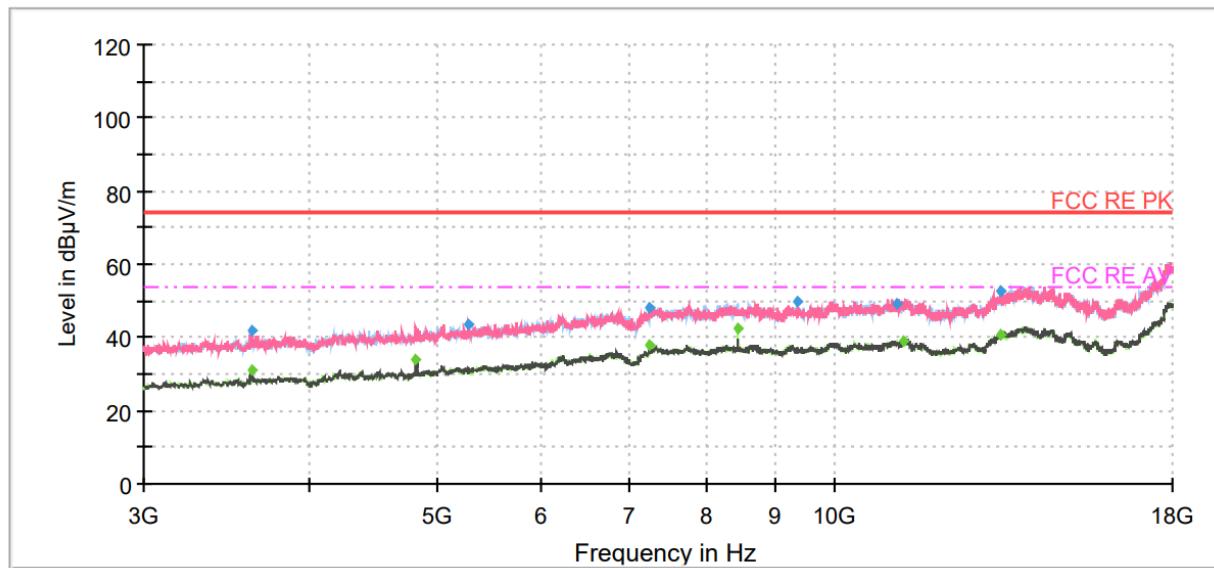
Radiates Emission from 30MHz to 1GHz

**802.11ax HE20 CH 1**

**Final Result**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1068.25	---	33.37	54.00	20.63	500.00	200.0	H	283.00	-5
1162.50	44.14	---	74.00	29.86	500.00	200.0	H	73.00	-4
1361.00	45.27	---	74.00	28.73	500.00	200.0	V	359.00	-3
1424.50	---	33.61	54.00	20.39	500.00	200.0	H	98.00	-3
1480.00	45.50	---	74.00	28.50	500.00	200.0	H	26.00	-2
1699.50	---	34.33	54.00	19.67	500.00	200.0	V	0.00	-2
1919.75	---	36.10	54.00	17.90	500.00	200.0	H	84.00	0
2066.50	47.27	---	74.00	26.73	500.00	200.0	H	33.00	1
2385.25	---	48.40	54.00	5.60	500.00	200.0	V	240.00	2
2386.75	67.04	---	74.00	6.96	500.00	200.0	V	212.00	2
2815.75	---	37.88	54.00	16.12	500.00	200.0	V	358.00	3
2831.75	49.06	---	74.00	24.94	500.00	200.0	V	145.00	3

Note: The signal beyond the limit is carrier.

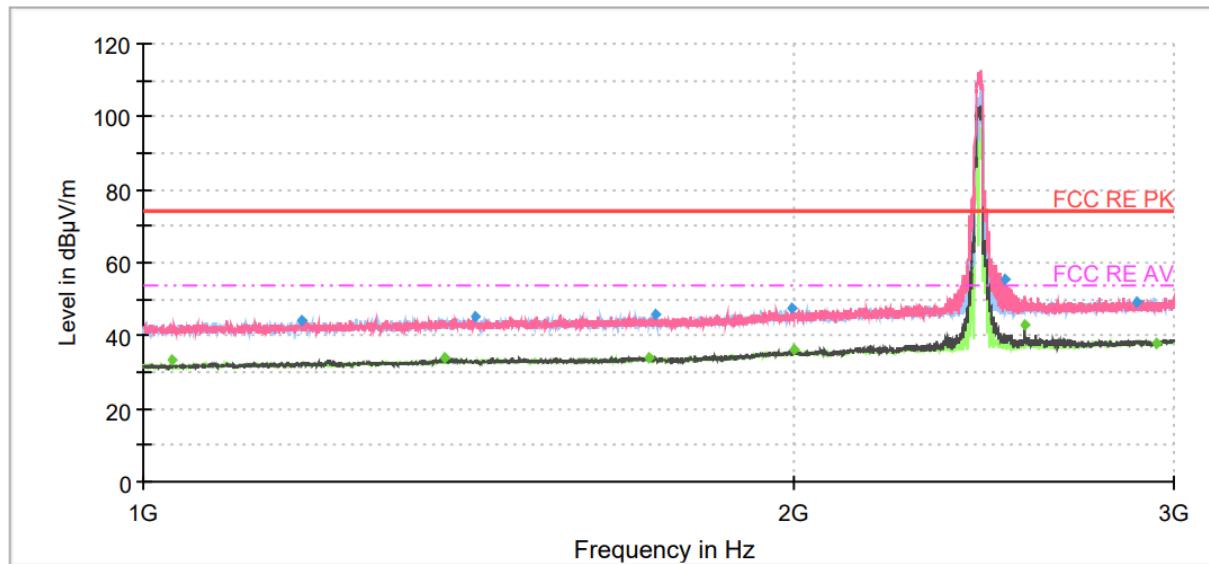
Radiates Emission from 1GHz to 3GHz



## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3618.75	---	31.32	54.00	22.68	500.00	200.0	V	326.00	-5
3618.75	42.07	---	74.00	31.93	500.00	100.0	V	326.00	-5
4822.50	---	33.81	54.00	20.19	500.00	200.0	V	238.00	-2
5289.38	43.37	---	74.00	30.63	500.00	200.0	V	335.00	0
7237.50	---	37.91	54.00	16.09	500.00	200.0	H	244.00	5
7239.38	48.38	---	74.00	25.62	500.00	100.0	H	338.00	5
8441.25	---	42.62	54.00	11.38	500.00	200.0	H	325.00	6
9352.50	50.05	---	74.00	23.95	500.00	100.0	H	26.00	7
11139.38	49.16	---	74.00	24.84	500.00	200.0	H	5.00	9
11253.75	---	39.06	54.00	14.94	500.00	100.0	H	140.00	9
13335.00	52.58	---	74.00	21.42	500.00	200.0	V	80.00	11
13351.88	---	40.71	54.00	13.29	500.00	100.0	V	353.00	11

Radiates Emission from 3GHz to 18GHz

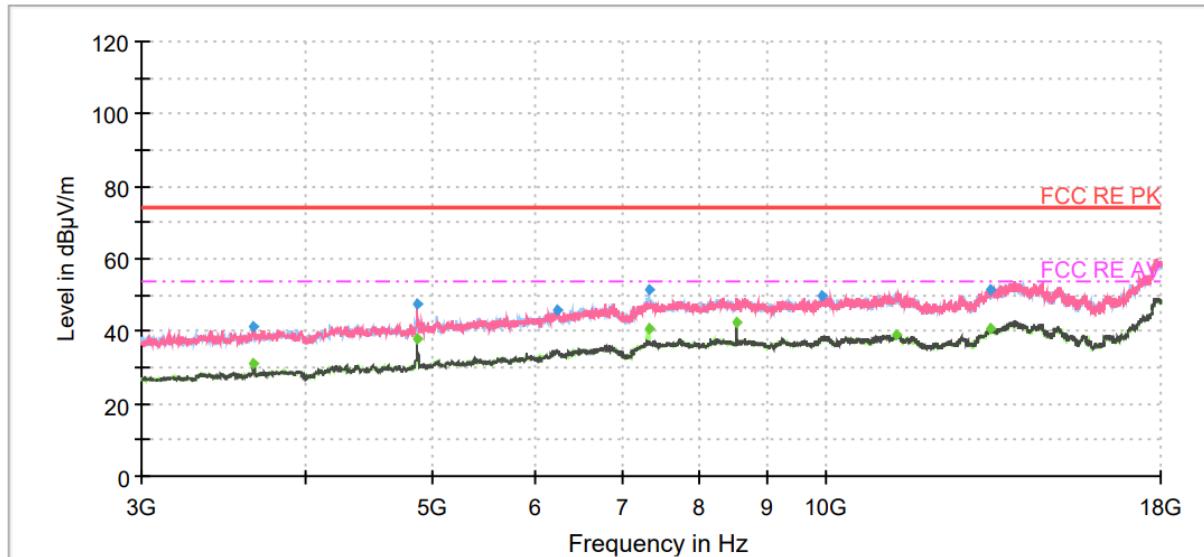


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1032.00	---	33.23	54.00	20.77	500.00	100.0	H	225.00	-5
1184.50	44.25	---	74.00	29.75	500.00	200.0	H	210.00	-4
1378.50	---	33.78	54.00	20.22	500.00	200.0	H	10.00	-3
1423.75	45.22	---	74.00	28.78	500.00	100.0	H	92.00	-3
1714.50	---	34.20	54.00	19.80	500.00	200.0	V	166.00	-2
1724.75	45.87	---	74.00	28.13	500.00	200.0	V	336.00	-2
1993.75	47.46	---	74.00	26.54	500.00	200.0	V	341.00	1
2002.50	---	36.22	54.00	17.78	500.00	100.0	V	0.00	1
2506.25	55.75	---	74.00	18.25	500.00	200.0	V	359.00	2
2560.25	---	43.15	54.00	10.85	500.00	100.0	V	355.00	3
2882.25	49.32	---	74.00	24.68	500.00	200.0	H	0.00	3
2943.75	---	38.11	54.00	15.89	500.00	200.0	H	5.00	3

Note: The signal beyond the limit is carrier.

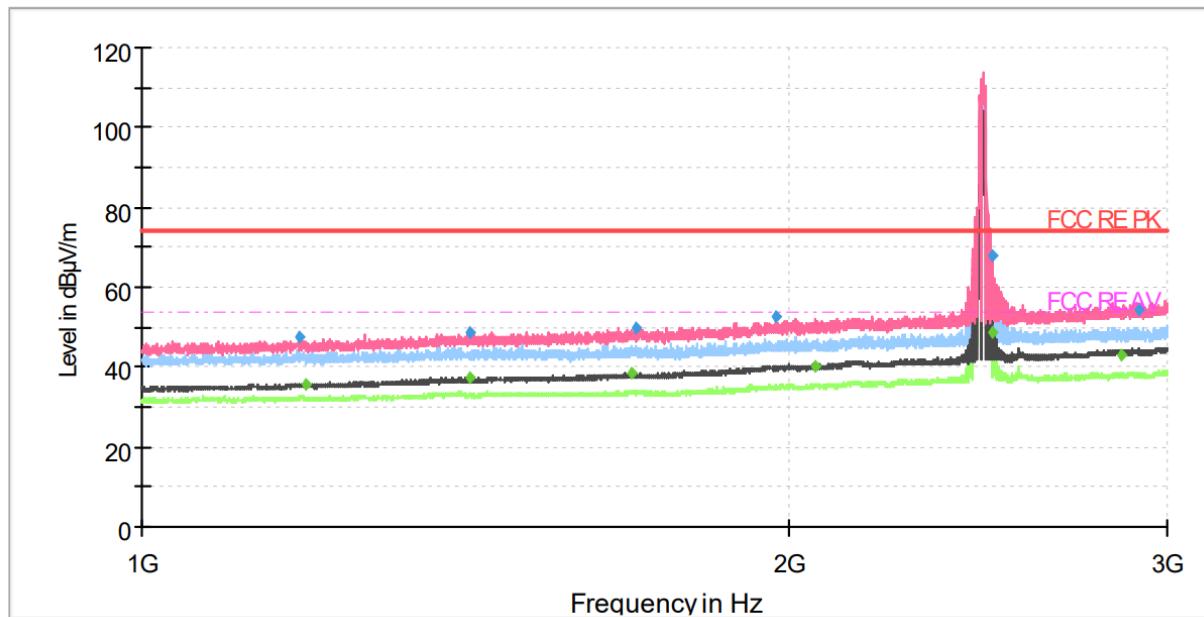
Radiates Emission from 1GHz to 3GHz



## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3650.63	41.24	---	74.00	32.76	500.00	100.0	H	28.00	-5
3656.25	---	31.26	54.00	22.74	500.00	200.0	V	12.00	-5
4875.00	---	38.12	54.00	15.88	500.00	100.0	V	129.00	-1
4876.88	47.51	---	74.00	26.49	500.00	100.0	V	129.00	-1
6225.00	46.02	---	74.00	27.98	500.00	100.0	H	0.00	3
7308.75	---	40.91	54.00	13.09	500.00	200.0	H	310.00	5
7308.75	51.42	---	74.00	22.58	500.00	200.0	H	310.00	5
8529.38	---	42.26	54.00	11.74	500.00	200.0	H	310.00	6
9905.63	49.61	---	74.00	24.39	500.00	200.0	V	38.00	7
11296.88	---	39.11	54.00	14.89	500.00	100.0	V	13.00	9
13318.13	51.77	---	74.00	22.23	500.00	100.0	V	356.00	11
13350.00	---	40.85	54.00	13.15	500.00	200.0	V	0.00	11

Radiates Emission from 3GHz to 18GHz

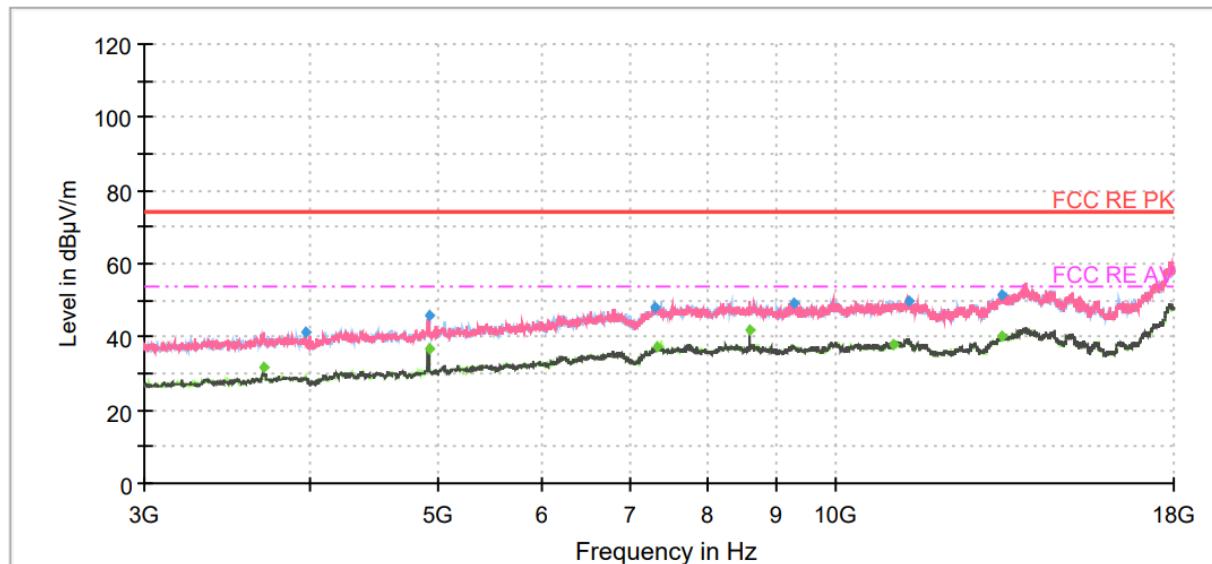


## Final\_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1185.00	47.37	---	74.00	26.63	500.00	200.0	V	350.00	-4
1192.75	---	35.90	54.00	18.10	500.00	100.0	V	357.00	-4
1422.00	---	37.28	54.00	16.72	500.00	200.0	V	0.00	-3
1422.00	48.66	---	74.00	25.34	500.00	100.0	V	0.00	-3
1689.00	---	38.47	54.00	15.53	500.00	200.0	V	353.00	-2
1698.50	49.99	---	74.00	24.01	500.00	200.0	V	302.00	-2
1972.00	52.44	---	74.00	21.56	500.00	100.0	V	353.00	0
2057.25	---	40.37	54.00	13.63	500.00	200.0	V	330.00	1
2487.50	67.68	---	74.00	6.32	500.00	200.0	V	228.00	2
2489.00	---	48.49	54.00	5.51	500.00	100.0	V	0.00	2
2858.00	---	43.27	54.00	10.73	500.00	200.0	V	357.00	3
2907.75	54.50	---	74.00	19.50	500.00	100.0	V	359.00	3

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

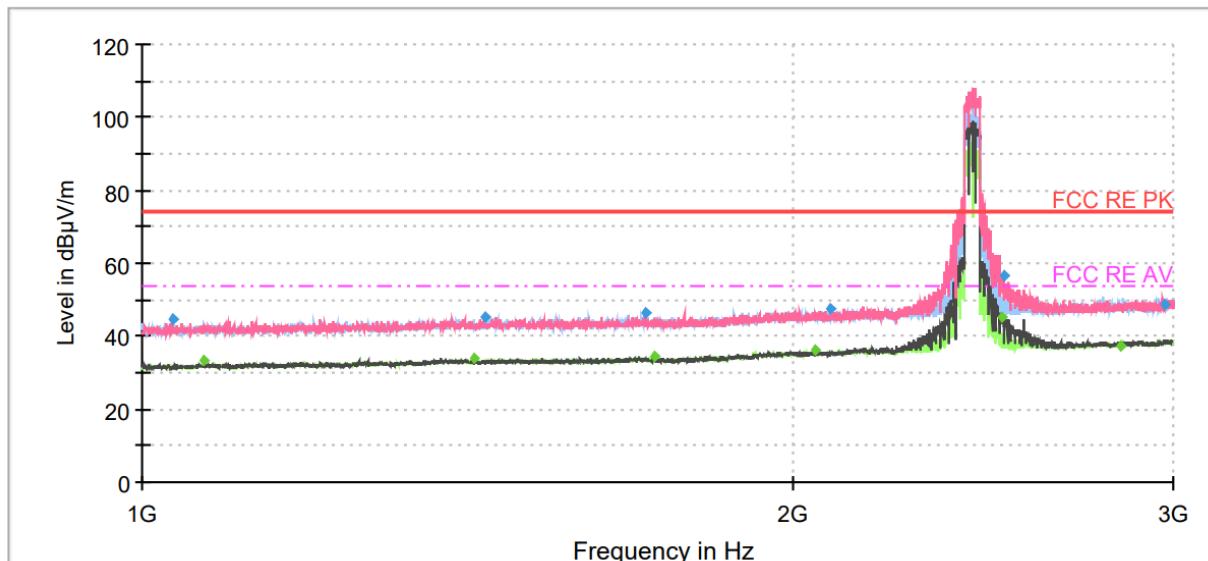


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3690.00	---	31.89	54.00	22.11	500.00	100.0	V	327.00	-5
3976.88	41.29	---	74.00	32.71	500.00	100.0	V	353.00	-4
4918.13	45.70	---	74.00	28.30	500.00	100.0	H	2.00	-1
4925.63	---	36.63	54.00	17.37	500.00	100.0	H	13.00	-1
7299.38	48.30	---	74.00	25.70	500.00	200.0	V	280.00	6
7320.00	---	37.30	54.00	16.70	500.00	200.0	H	329.00	5
8617.50	---	41.76	54.00	12.24	500.00	200.0	H	320.00	7
9286.88	49.21	---	74.00	24.79	500.00	100.0	H	0.00	7
11041.88	---	38.15	54.00	15.85	500.00	200.0	H	271.00	9
11349.38	49.89	---	74.00	24.11	500.00	100.0	H	0.00	9
13327.50	51.39	---	74.00	22.61	500.00	200.0	V	111.00	11
13336.88	---	40.33	54.00	13.67	500.00	100.0	V	6.00	11

Radiates Emission from 3GHz to 18GHz

## 802.11ax HE40 CH3

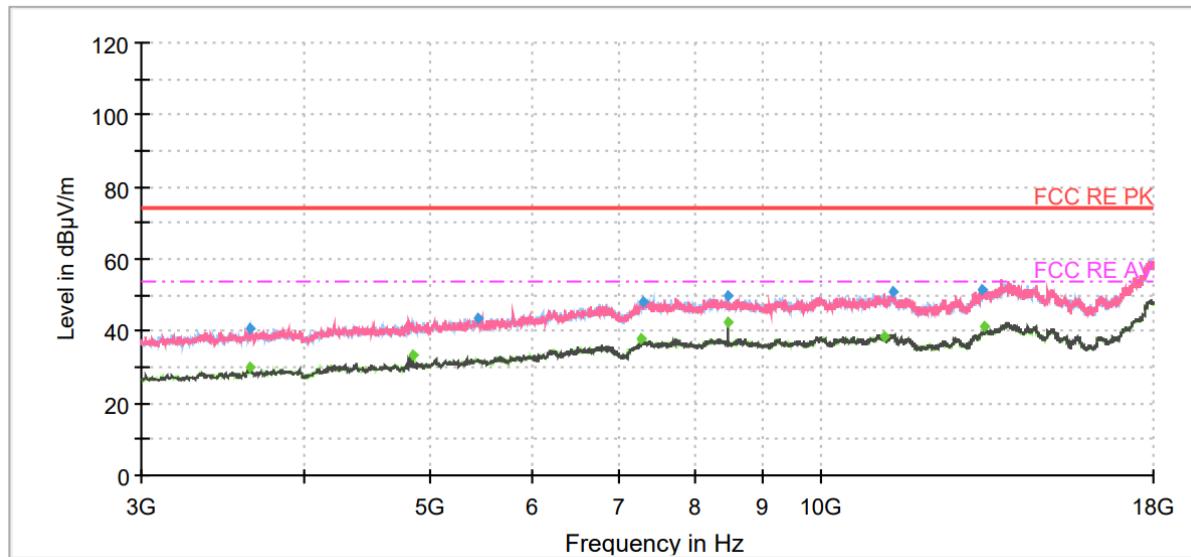


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1034.25	44.50	---	74.00	29.50	500.00	200.0	H	15.00	-5
1068.00	---	33.62	54.00	20.38	500.00	100.0	H	0.00	-5
1424.50	---	34.11	54.00	19.89	500.00	200.0	H	212.00	-3
1439.50	45.16	---	74.00	28.84	500.00	200.0	H	100.00	-3
1710.75	46.21	---	74.00	27.79	500.00	100.0	V	341.00	-2
1724.25	---	34.39	54.00	19.61	500.00	200.0	H	240.00	-2
2045.75	---	36.15	54.00	17.85	500.00	100.0	V	39.00	1
2080.00	47.41	---	74.00	26.59	500.00	200.0	H	143.00	0
2498.25	---	45.39	54.00	8.61	500.00	100.0	V	208.00	2
2504.00	56.63	---	74.00	17.37	500.00	200.0	V	180.00	2
2834.50	---	37.61	54.00	16.39	500.00	200.0	H	0.00	3
2969.25	48.89	---	74.00	25.11	500.00	100.0	H	100.00	4

Note: The signal beyond the limit is carrier.

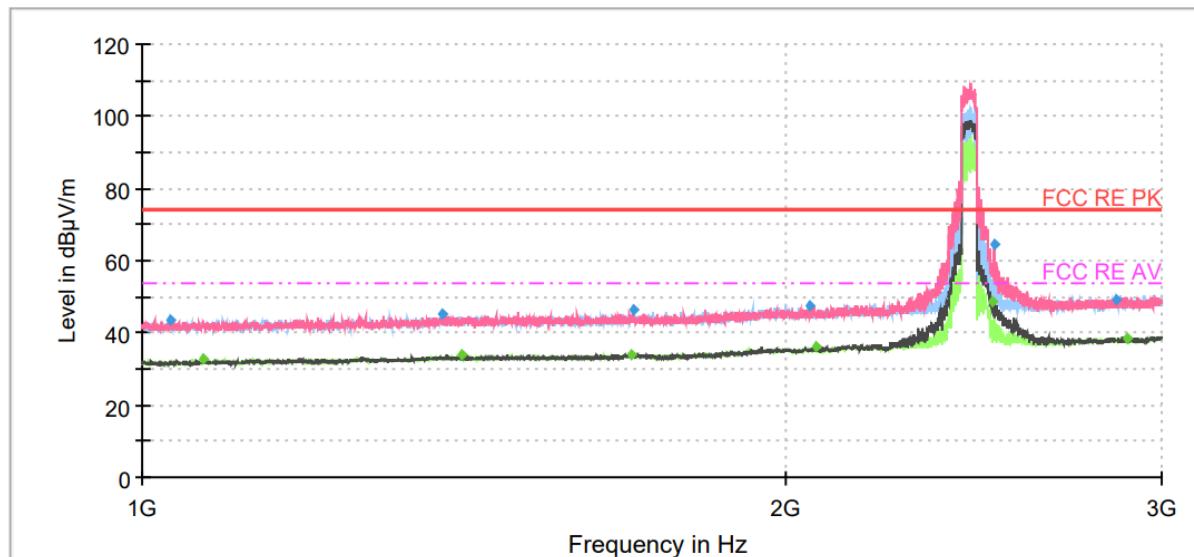
Radiates Emission from 1GHz to 3GHz



## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3635.63	---	30.07	54.00	23.93	500.00	200.0	V	0.00	-5
3637.50	<b>40.91</b>	---	74.00	33.09	500.00	200.0	V	0.00	-5
4850.63	---	33.24	54.00	20.76	500.00	100.0	H	181.00	-1
5437.50	<b>43.54</b>	---	74.00	30.46	500.00	100.0	V	319.00	0
7252.50	---	37.81	54.00	16.19	500.00	100.0	H	310.00	5
7303.13	<b>48.31</b>	---	74.00	25.69	500.00	200.0	H	357.00	6
8476.88	<b>49.53</b>	---	74.00	24.47	500.00	200.0	H	317.00	6
8476.88	---	42.49	54.00	11.51	500.00	200.0	H	317.00	6
11176.88	---	38.32	54.00	15.68	500.00	200.0	V	6.00	9
11341.88	<b>50.82</b>	---	74.00	23.18	500.00	200.0	V	3.00	9
13288.13	<b>51.52</b>	---	74.00	22.48	500.00	200.0	H	350.00	11
13335.00	---	41.09	54.00	12.91	500.00	100.0	H	166.00	11

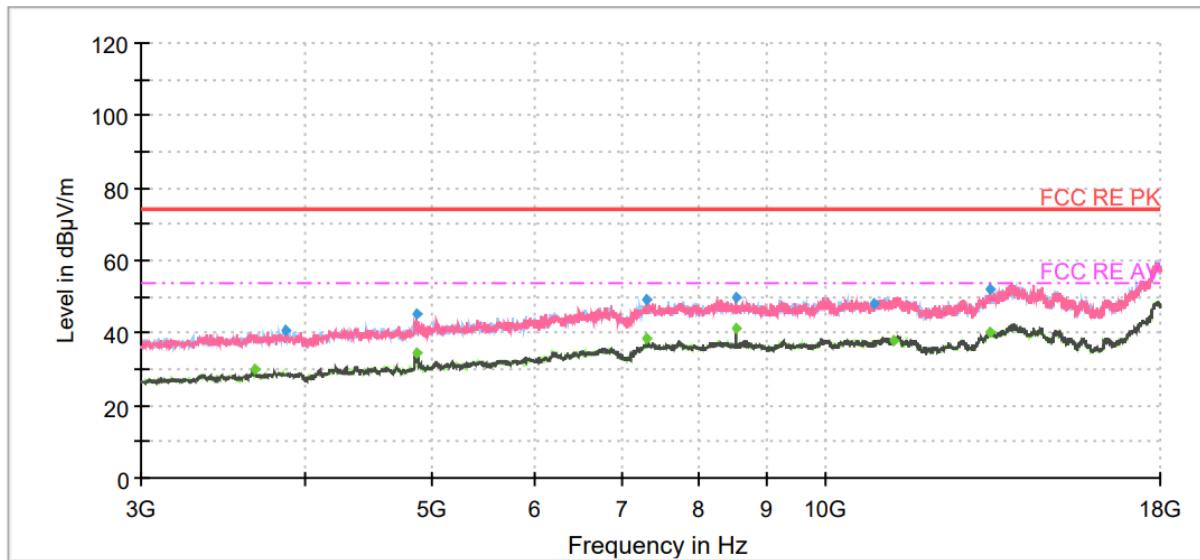
Radiates Emission from 3GHz to 18GHz

**802.11ax HE40 CH6**

**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)
1032.00	43.83	---	74.00	30.17	500.00	200.0	H	2.00	-5
1068.25	---	33.05	54.00	20.95	500.00	200.0	H	0.00	-5
1381.25	45.51	---	74.00	28.49	500.00	200.0	H	5.00	-3
1411.50	---	33.79	54.00	20.21	500.00	200.0	V	48.00	-3
1695.75	---	34.20	54.00	19.80	500.00	200.0	H	0.00	-2
1696.00	46.58	---	74.00	27.42	500.00	200.0	V	213.00	-2
2053.25	47.53	---	74.00	26.47	500.00	200.0	H	60.00	1
2066.75	---	36.09	54.00	17.91	500.00	200.0	V	358.00	1
2498.50	---	48.91	54.00	5.09	500.00	200.0	V	255.00	2
2504.50	64.38	---	74.00	9.62	500.00	200.0	V	34.00	2
2855.75	48.97	---	74.00	25.03	500.00	200.0	H	139.00	3
2888.75	---	38.49	54.00	15.51	500.00	200.0	H	1.00	3

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

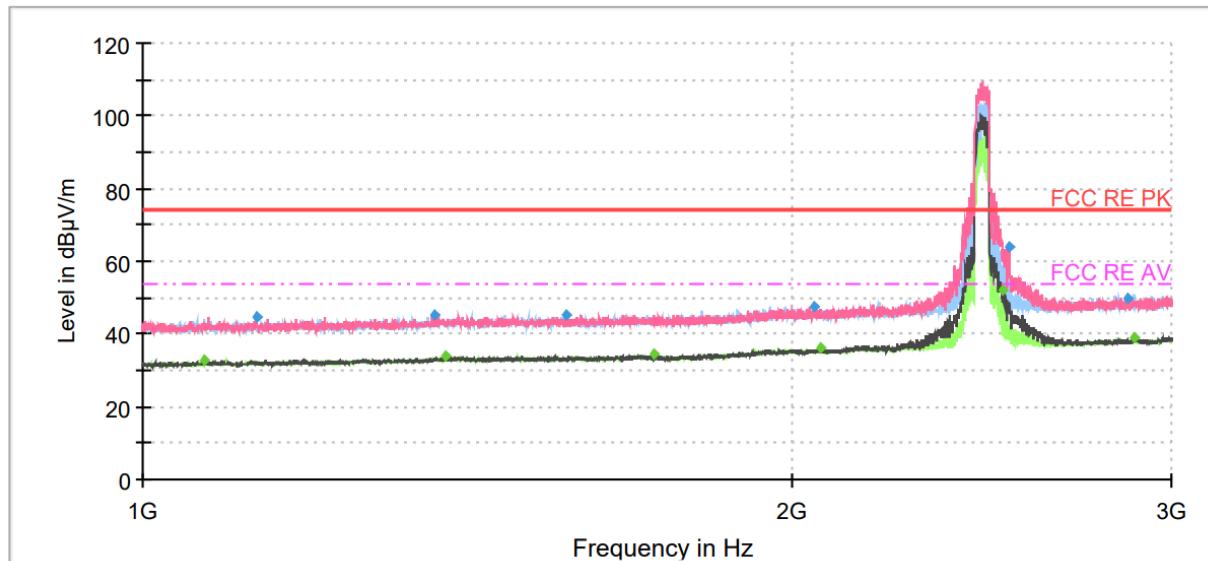


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3660.00	---	29.85	54.00	24.15	500.00	100.0	V	306.00	-5
3870.00	40.50	---	74.00	33.50	500.00	100.0	V	220.00	-4
4875.00	---	34.76	54.00	19.24	500.00	200.0	V	173.00	-1
4875.00	45.30	---	74.00	28.70	500.00	100.0	V	173.00	-1
7299.38	---	38.75	54.00	15.25	500.00	200.0	H	311.00	6
7301.25	49.33	---	74.00	24.67	500.00	100.0	H	311.00	6
8529.38	49.59	---	74.00	24.41	500.00	100.0	V	265.00	6
8529.38	---	41.48	54.00	12.52	500.00	200.0	V	265.00	6
10888.13	48.36	---	74.00	25.64	500.00	100.0	V	52.00	9
11250.00	---	37.84	54.00	16.16	500.00	100.0	H	1.00	9
13333.13	---	40.26	54.00	13.74	500.00	200.0	H	1.00	11
13335.00	52.24	---	74.00	21.76	500.00	100.0	V	306.00	11

Radiates Emission from 3GHz to 18GHz

## 802.11ax HE40 CH9

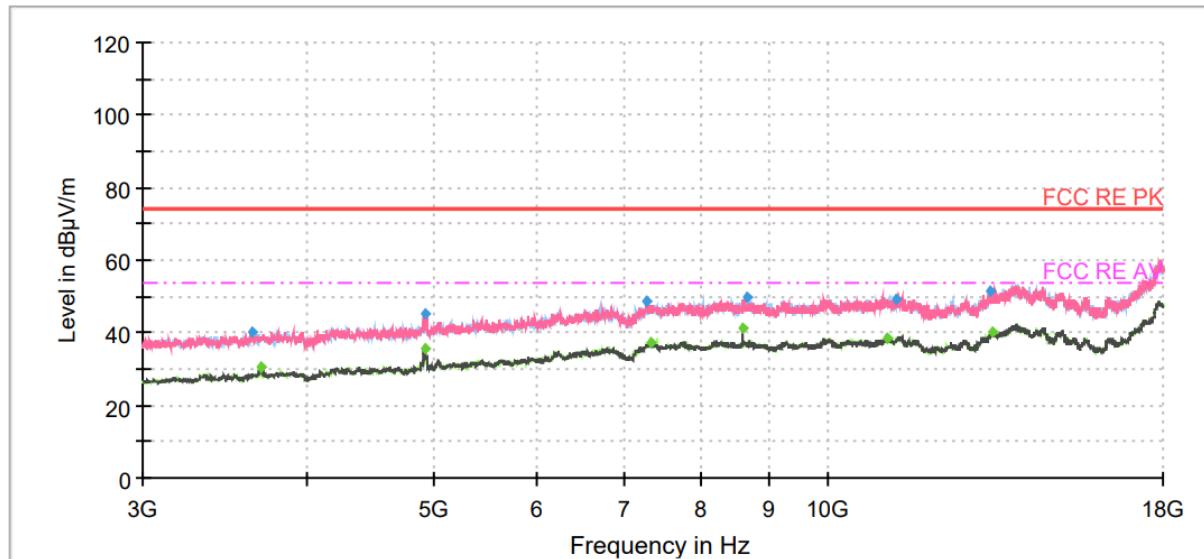


## Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1068.25	---	33.07	54.00	20.93	500.00	200.0	H	20.00	-5
1129.25	44.65	---	74.00	29.35	500.00	200.0	V	337.00	-4
1364.50	45.20	---	74.00	28.80	500.00	200.0	H	131.00	-3
1380.25	---	33.74	54.00	20.26	500.00	200.0	H	200.00	-3
1571.75	45.29	---	74.00	28.71	500.00	200.0	V	159.00	-2
1724.25	---	34.41	54.00	19.59	500.00	200.0	H	2.00	-2
2047.50	47.77	---	74.00	26.23	500.00	200.0	V	353.00	1
2063.75	---	36.02	54.00	17.98	500.00	200.0	H	6.00	1
2507.00	---	52.11	54.00	1.89	500.00	200.0	V	13.00	2
2520.00	63.68	---	74.00	10.32	500.00	200.0	V	199.00	2
2861.75	49.83	---	74.00	24.17	500.00	200.0	V	34.00	3
2882.75	---	38.99	54.00	15.01	500.00	200.0	V	131.00	3

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



## Final Result

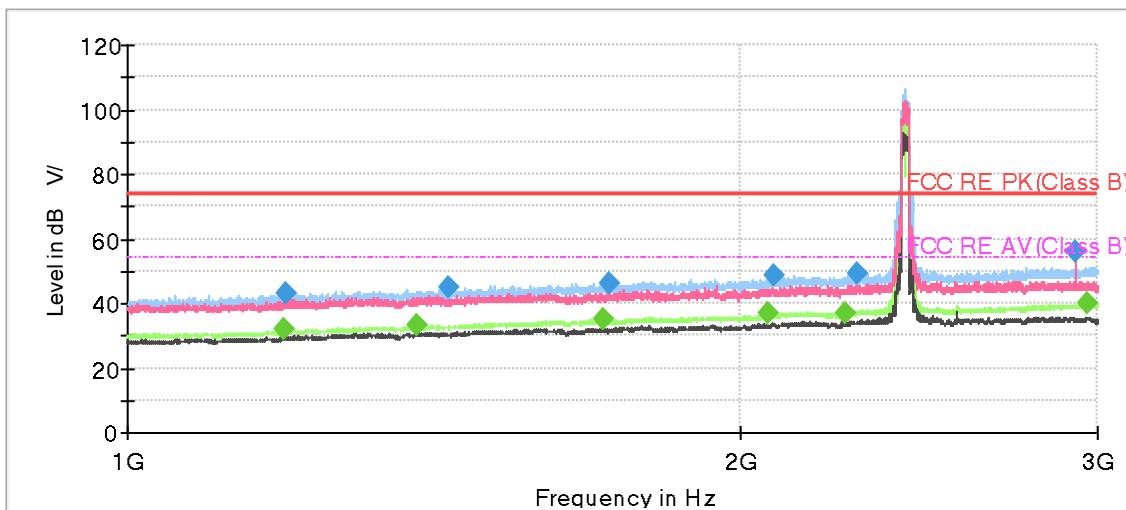
Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3630.00	40.47	---	74.00	33.53	500.00	100.0	V	57.00	-5
3690.00	---	30.38	54.00	23.62	500.00	200.0	V	220.00	-5
4921.88	---	35.56	54.00	18.44	500.00	100.0	H	140.00	-1
4931.25	45.22	---	74.00	28.78	500.00	200.0	V	158.00	-1
7271.25	48.63	---	74.00	25.37	500.00	100.0	V	15.00	5
7308.75	---	37.29	54.00	16.71	500.00	100.0	V	281.00	5
8617.50	---	41.07	54.00	12.93	500.00	200.0	V	249.00	7
8664.38	49.94	---	74.00	24.06	500.00	100.0	H	94.00	7
11081.25	---	38.65	54.00	15.35	500.00	200.0	H	322.00	9
11280.00	49.28	---	74.00	24.72	500.00	100.0	V	2.00	9
13275.00	51.29	---	74.00	22.71	500.00	100.0	V	1.00	11
13348.13	---	40.36	54.00	13.64	500.00	200.0	H	0.00	11

Radiates Emission from 3GHz to 18GHz

ERSU

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

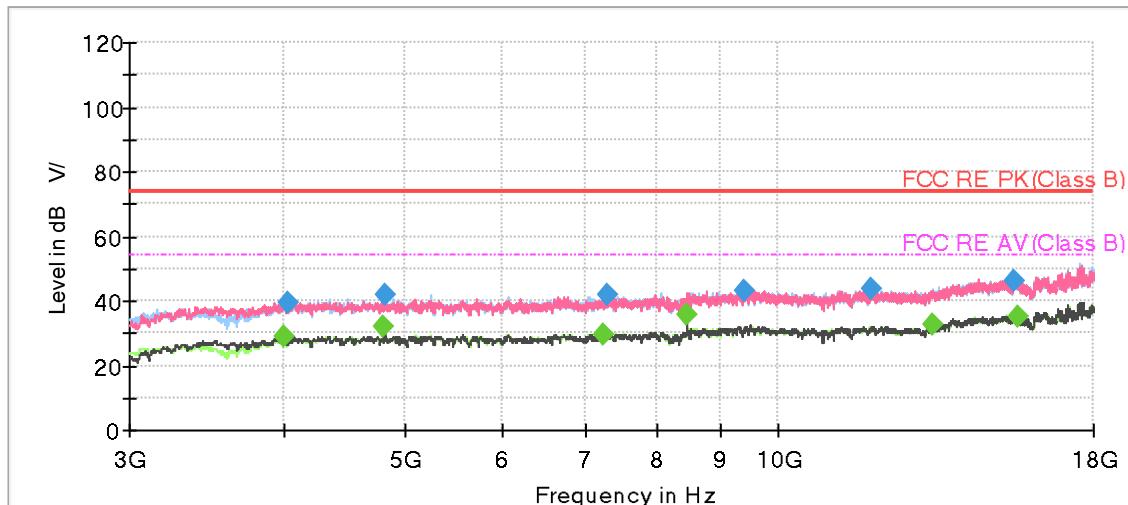
### 802.11ax HE20 CH 1



Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.750000	---	32.04	54.00	21.96	500.0	200.0	H	63.0	-8.9
1197.750000	43.33	---	74.00	30.67	500.0	200.0	H	37.0	-8.8
1389.750000	---	33.31	54.00	20.69	500.0	200.0	H	128.0	-7.6
1439.500000	44.89	---	74.00	29.11	500.0	200.0	H	115.0	-7.3
1716.000000	---	35.03	54.00	18.97	500.0	200.0	H	8.0	-5.9
1724.500000	46.07	---	74.00	27.93	500.0	200.0	H	14.0	-5.9
2066.000000	---	36.69	54.00	17.31	500.0	200.0	H	2.0	-4.1
2079.500000	48.44	---	74.00	25.56	500.0	200.0	H	155.0	-3.9
2255.750000	---	37.06	54.00	16.94	500.0	200.0	H	63.0	-3.0
2285.500000	49.02	---	74.00	24.98	500.0	200.0	H	20.0	-2.9
2927.500000	55.81	---	74.00	18.19	500.0	200.0	V	300.0	-1.0
2964.500000	---	40.07	54.00	13.93	500.0	200.0	H	135.0	-0.8

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3993.750000	---	28.64	54.00	25.36	500.0	200.0	V	72.0	-6.8
4035.000000	39.52	---	74.00	34.48	500.0	200.0	V	272.0	-6.7
4816.875000	---	32.13	54.00	21.87	500.0	200.0	H	171.0	-6.1
4830.000000	41.98	---	74.00	32.02	500.0	200.0	H	250.0	-6.0
7231.875000	---	29.78	54.00	24.22	500.0	200.0	V	350.0	-2.9
7293.750000	41.83	---	74.00	32.17	500.0	200.0	H	164.0	-3.0
8441.250000	---	35.56	54.00	18.44	500.0	200.0	V	279.0	-2.1
9423.750000	43.37	---	74.00	30.63	500.0	200.0	V	207.0	-0.6
11896.875000	43.56	---	74.00	30.44	500.0	200.0	V	100.0	0.1
13351.875000	---	32.64	54.00	21.36	500.0	200.0	H	221.0	2.4
15547.500000	45.95	---	74.00	28.05	500.0	200.0	H	164.0	6.3
15624.375000	---	35.13	54.00	18.87	500.0	200.0	V	358.0	6.5

Radiates Emission from 3GHz to 18GHz

**Bluetooth LE**

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:**

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

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

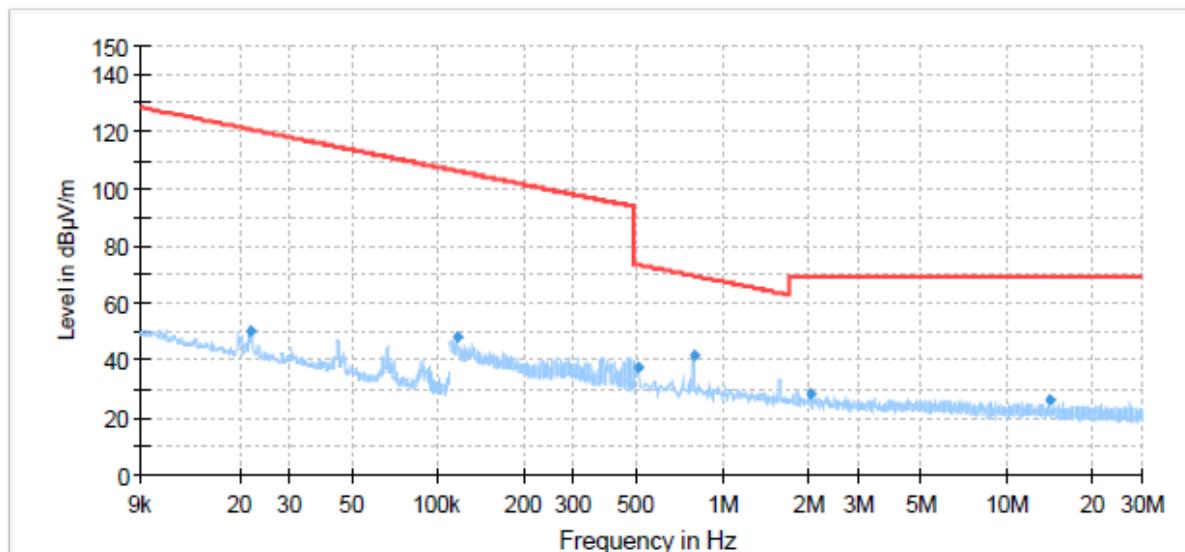
**For above 1GHz**

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

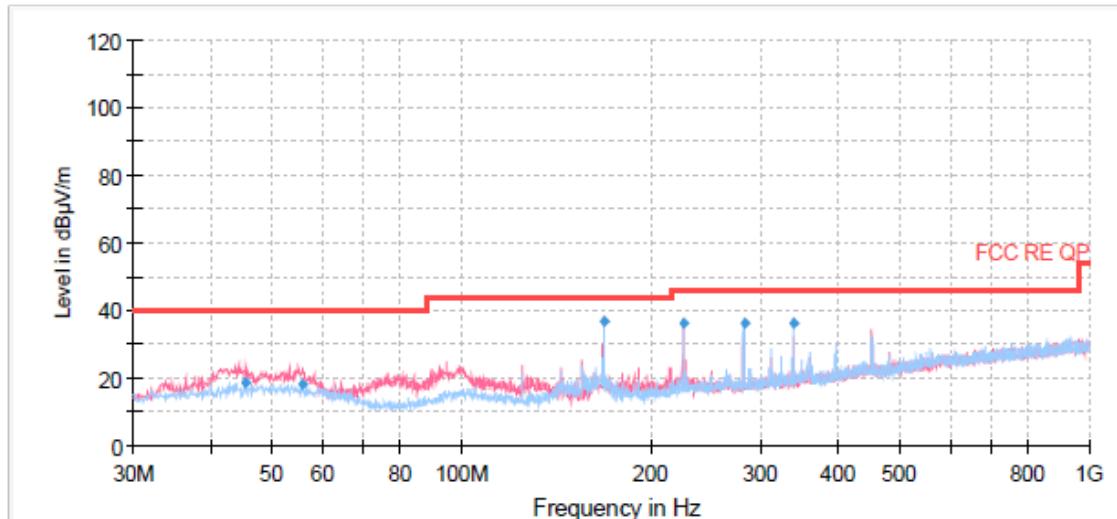
 AVG Level @Spectrum Overview H  AVG Level @Spectrum Overview V  AVG Level @Final Results  AVG Limit

**Continuous TX mode:****Bluetooth LE**

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.



Radiates Emission from 9kHz to 30MHz

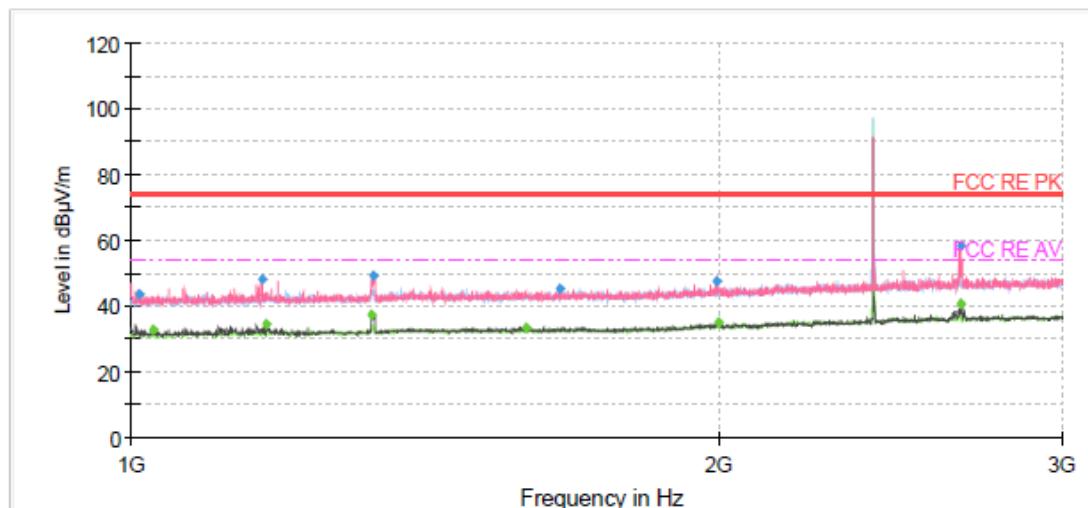


## Final Result

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.40	18.43	40.00	21.57	1000.00	102.0	V	0.00	20
55.83	18.19	40.00	21.81	1000.00	103.0	V	68.00	20
168.95	36.53	43.50	6.97	1000.00	103.0	V	0.00	16
225.33	36.00	46.00	10.00	1000.00	104.0	V	20.00	19
281.59	36.28	46.00	9.72	1000.00	101.0	H	235.00	20
338.10	36.20	46.00	9.80	1000.00	101.0	H	97.00	22

Radiates Emission from 30MHz to 1GHz

## Bluetooth LE-Channel 0

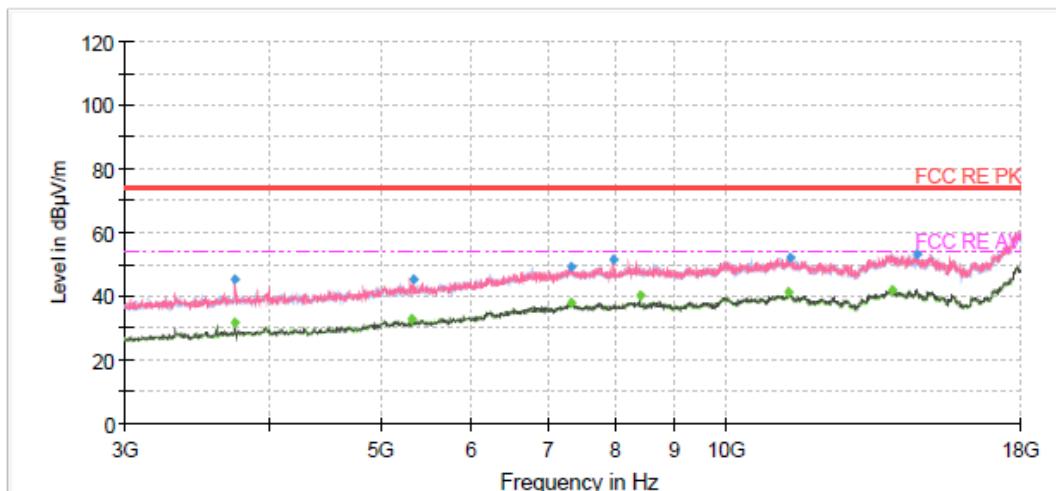


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1010.50	43.36	---	74.00	30.64	500.00	200.0	V	77.00	-5
1025.50	---	32.71	54.00	21.29	500.00	100.0	V	100.00	-5
1166.75	48.22	---	74.00	25.78	500.00	100.0	V	109.00	-5
1172.50	---	34.67	54.00	19.33	500.00	200.0	V	116.00	-4
1328.75	---	37.12	54.00	16.88	500.00	100.0	V	118.00	-3
1329.75	49.14	---	74.00	24.86	500.00	100.0	V	118.00	-3
1595.00	---	33.58	54.00	20.42	500.00	100.0	V	73.00	-2
1658.00	45.45	---	74.00	28.55	500.00	200.0	V	159.00	-2
1993.50	47.46	---	74.00	26.54	500.00	200.0	V	60.00	0
1998.75	---	35.12	54.00	18.88	500.00	200.0	V	60.00	0
2661.50	58.16	---	74.00	15.84	500.00	200.0	V	99.00	2
2663.00	---	40.66	54.00	13.34	500.00	200.0	V	0.00	2

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

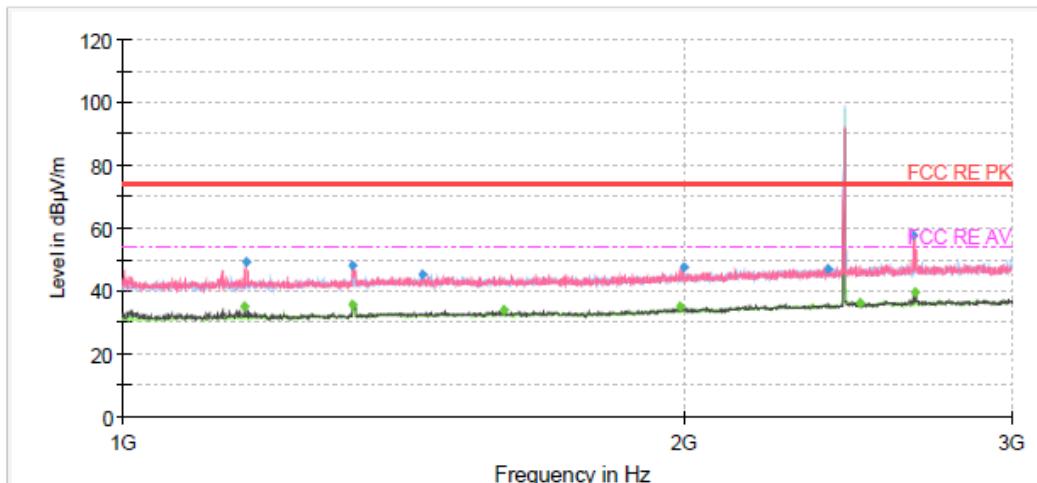


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3733.13	---	<b>31.45</b>	54.00	22.55	500.00	100.0	V	0.00	-5
3733.13	<b>45.17</b>	---	74.00	28.83	500.00	100.0	V	0.00	-5
5319.38	---	<b>32.73</b>	54.00	21.27	500.00	100.0	V	73.00	0
5332.50	<b>45.34</b>	---	74.00	28.66	500.00	100.0	V	130.00	0
7306.88	---	<b>37.64</b>	54.00	16.36	500.00	200.0	V	2.00	6
7318.13	<b>49.10</b>	---	74.00	24.90	500.00	100.0	H	107.00	6
7972.50	<b>51.45</b>	---	74.00	22.55	500.00	100.0	V	326.00	6
8407.50	---	<b>40.28</b>	54.00	13.72	500.00	200.0	V	266.00	6
11315.63	---	<b>41.19</b>	54.00	12.81	500.00	100.0	V	311.00	9
11347.50	<b>52.09</b>	---	74.00	21.91	500.00	100.0	H	0.00	9
13903.13	---	<b>41.89</b>	54.00	12.11	500.00	200.0	V	28.00	11
14634.38	<b>52.96</b>	---	74.00	21.04	500.00	200.0	V	36.00	11

Radiates Emission from 3GHz to 18GHz

## Bluetooth LE-Channel 19

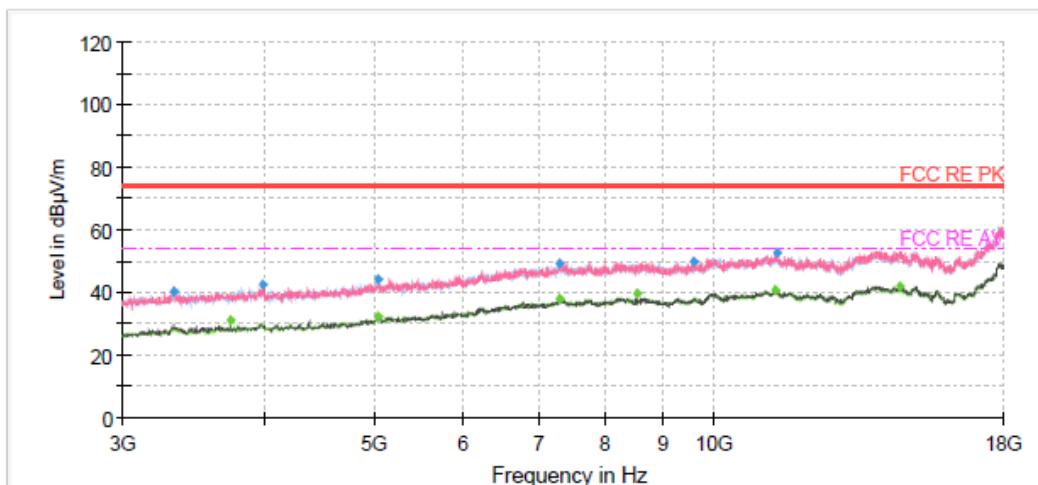


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1162.75	---	35.06	54.00	18.94	500.00	100.0	V	107.00	-5
1164.00	49.24	---	74.00	24.76	500.00	100.0	V	107.00	-5
1327.00	48.21	---	74.00	25.79	500.00	100.0	V	73.00	-3
1327.75	---	35.90	54.00	18.10	500.00	100.0	V	73.00	-3
1446.75	45.25	---	74.00	28.75	500.00	100.0	V	56.00	-3
1601.25	---	33.92	54.00	20.08	500.00	100.0	V	116.00	-2
1990.75	---	34.88	54.00	19.12	500.00	200.0	V	71.00	0
1998.50	47.50	---	74.00	26.50	500.00	100.0	V	0.00	0
2387.75	47.20	---	74.00	26.80	500.00	200.0	H	359.00	2
2486.00	---	36.01	54.00	17.99	500.00	200.0	V	4.00	2
2658.75	57.60	---	74.00	16.40	500.00	100.0	V	30.00	2
2660.75	---	39.64	54.00	14.36	500.00	200.0	V	71.00	2

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

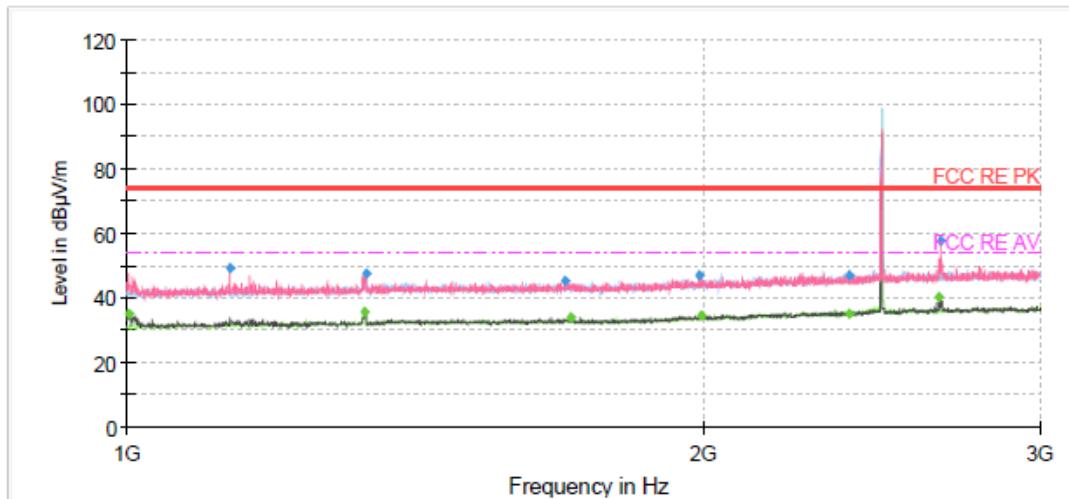


## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3322.50	40.01	---	74.00	33.99	500.00	100.0	V	253.00	-6
3731.25	---	31.27	54.00	22.73	500.00	100.0	H	29.00	-5
3991.88	42.37	---	74.00	31.63	500.00	100.0	V	110.00	-4
5040.00	---	32.25	54.00	21.75	500.00	200.0	H	353.00	0
5040.00	43.90	---	74.00	30.10	500.00	100.0	V	42.00	0
7280.63	48.97	---	74.00	25.03	500.00	100.0	V	358.00	6
7301.25	---	37.82	54.00	16.18	500.00	100.0	V	271.00	6
8540.63	---	39.40	54.00	14.60	500.00	200.0	V	1.00	6
9568.13	49.87	---	74.00	24.13	500.00	100.0	V	262.00	7
11315.63	---	40.89	54.00	13.11	500.00	100.0	V	0.00	9
11355.00	52.72	---	74.00	21.28	500.00	200.0	H	53.00	9
14574.38	---	41.94	54.00	12.06	500.00	100.0	H	4.00	11

Radiates Emission from 3GHz to 18GHz

## Bluetooth LE-Channel 39

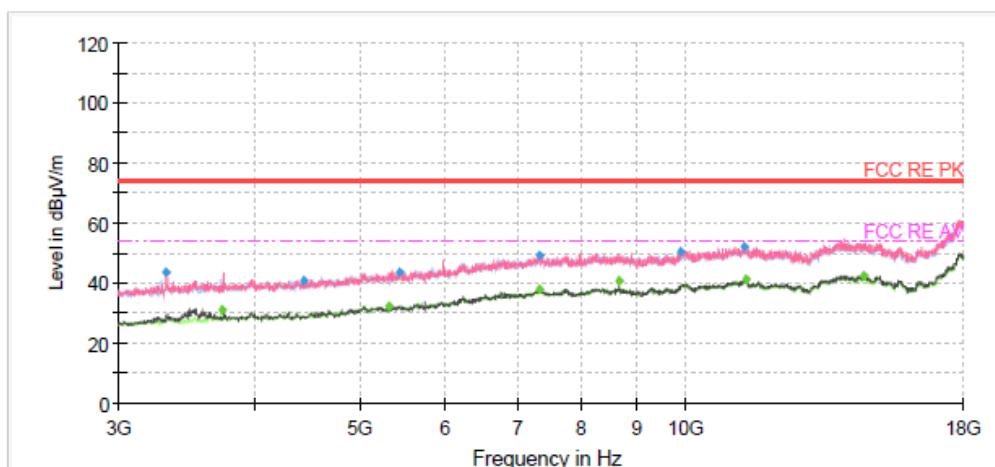


## Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1003.25	---	35.28	54.00	18.72	500.00	200.0	V	89.00	-5
1132.00	49.22	---	74.00	24.78	500.00	200.0	V	106.00	-5
1331.00	---	35.44	54.00	18.56	500.00	100.0	H	40.00	-3
1333.00	47.77	---	74.00	26.23	500.00	100.0	V	106.00	-3
1693.25	45.02	---	74.00	28.98	500.00	200.0	V	140.00	-2
1704.75	---	33.81	54.00	20.19	500.00	100.0	V	133.00	-2
1992.75	46.74	---	74.00	27.26	500.00	100.0	V	358.00	0
1996.25	---	34.69	54.00	19.31	500.00	200.0	V	72.00	0
2384.00	46.81	---	74.00	27.19	500.00	200.0	H	98.00	2
2385.50	---	35.24	54.00	18.76	500.00	200.0	H	98.00	2
2657.75	---	40.14	54.00	13.86	500.00	200.0	V	72.00	2
2664.00	57.59	---	74.00	16.41	500.00	100.0	V	29.00	2

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



## Final Result

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3318.75	43.66	---	74.00	30.34	500.00	100.0	V	61.00	-6
3731.25	---	31.39	54.00	22.61	500.00	100.0	H	35.00	-5
4443.75	40.56	---	74.00	33.44	500.00	100.0	H	45.00	-3
5323.13	---	32.49	54.00	21.51	500.00	100.0	V	290.00	0
5437.50	43.64	---	74.00	30.36	500.00	200.0	V	103.00	0
7308.75	49.11	---	74.00	24.89	500.00	100.0	H	231.00	6
7320.00	---	37.67	54.00	16.33	500.00	200.0	H	342.00	6
8679.38	---	40.50	54.00	13.50	500.00	200.0	V	268.00	7
9898.13	50.43	---	74.00	23.57	500.00	200.0	H	357.00	7
11313.75	51.97	---	74.00	22.03	500.00	200.0	V	197.00	9
11345.63	---	41.30	54.00	12.70	500.00	200.0	V	0.00	9
14581.88	---	42.65	54.00	11.35	500.00	200.0	H	290.00	11

Radiates Emission from 3GHz to 18GHz

## 5.7. Conducted Emission

### Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

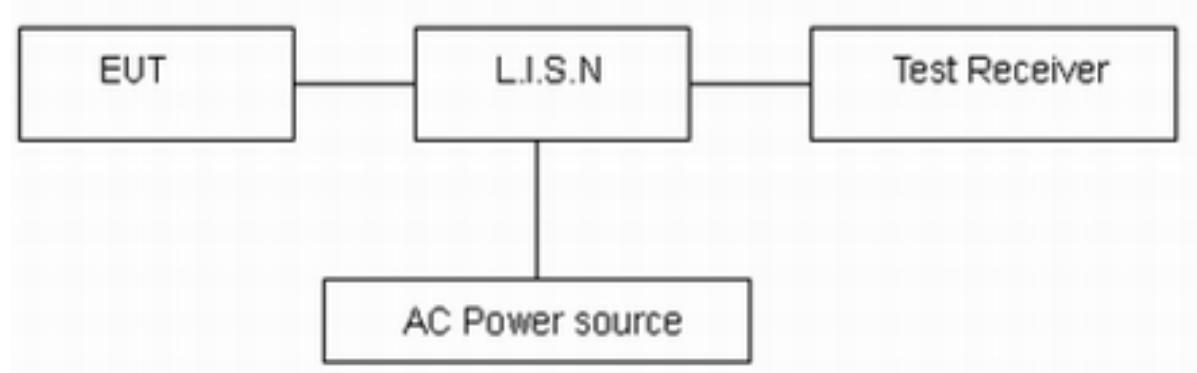
### Methods of Measurement

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. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, 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(dB $\mu$ V)	
	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

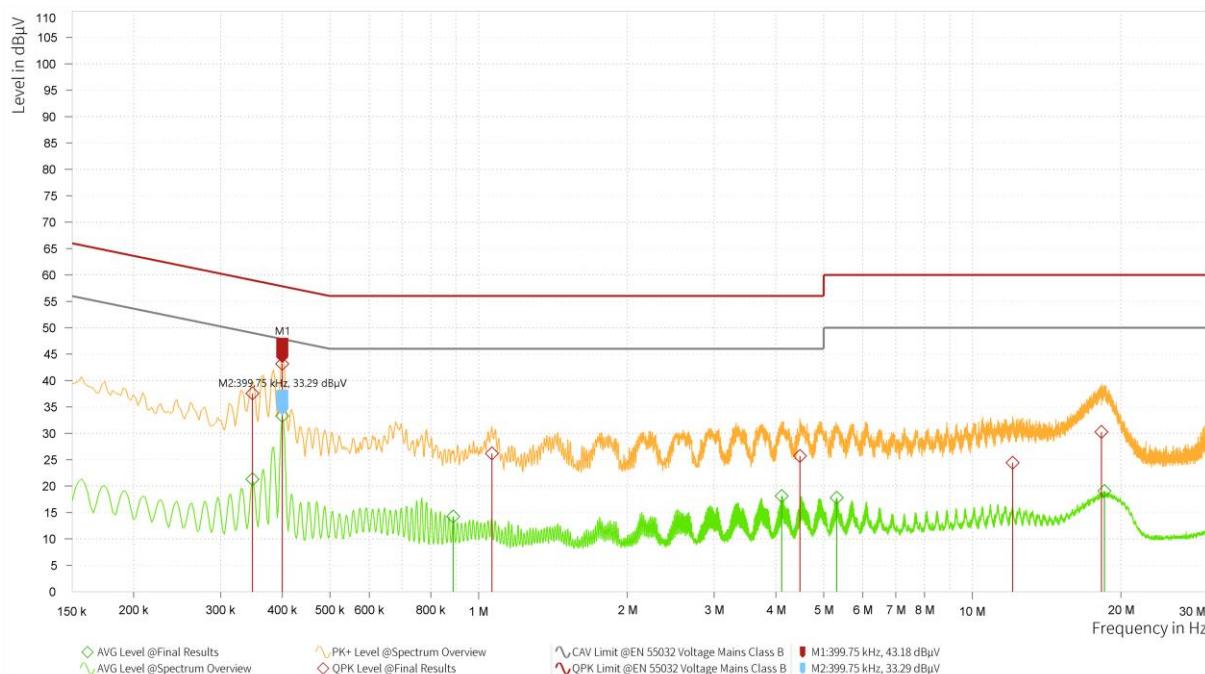
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.

**Test Results:**

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

**Wi-Fi 2.4GHz**

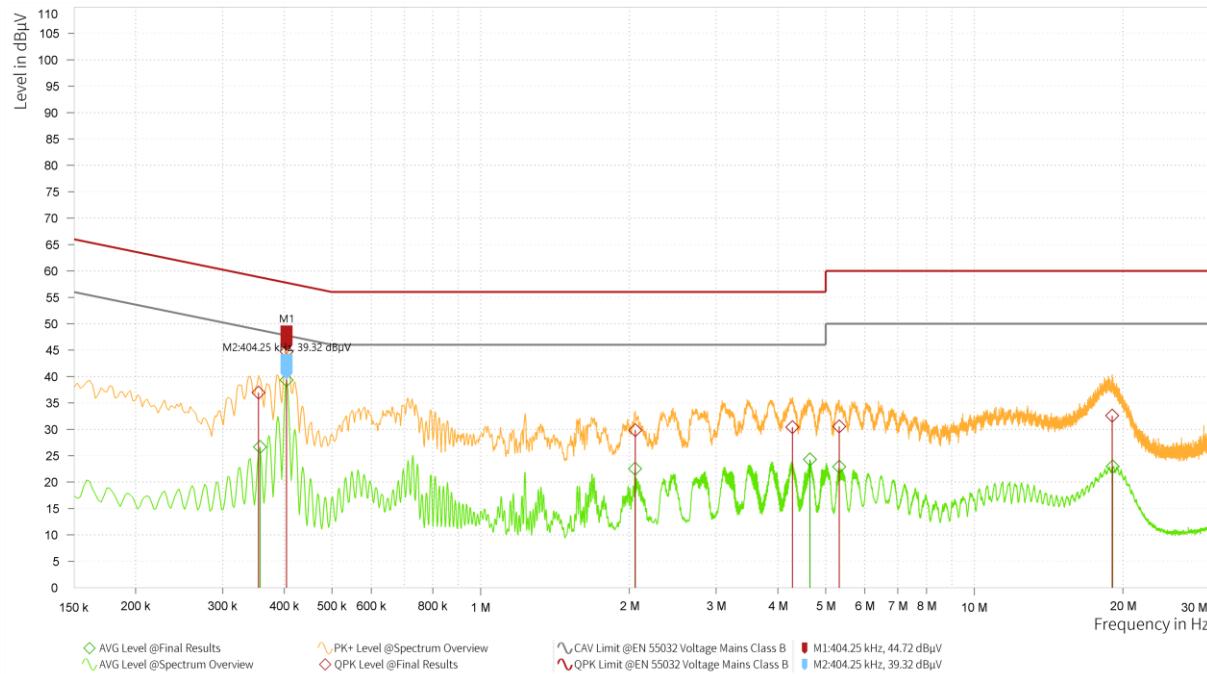
During the test, the Conducted Emission was performed in all modes with all channel. The test data of the worst-case condition was recorded in this report.



Frequency [MHz]	QPK Level [dB $\mu$ V]	QPK Limit [dB $\mu$ V]	QPK Margin [dB]	AVG Level [dB $\mu$ V]	AVG: CAV Limit [dB $\mu$ V]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.348	37.57	59.01	21.44	21.28	49.01	27.73	20.92	L1	9.000	1.000
0.400	43.18	57.86	14.68	33.29	47.86	14.57	20.88	L1	9.000	1.000
0.888				14.23	46.00	31.77	20.25	L1	9.000	1.000
1.064	26.21	56.00	29.79				20.11	L1	9.000	1.000
4.110				18.10	46.00	27.90	19.42	L1	9.000	1.000
4.475	25.69	56.00	30.31				19.41	L1	9.000	1.000
5.312				17.80	50.00	32.20	19.40	L1	9.000	1.000
12.071	24.43	60.00	35.57				19.43	L1	9.000	1.000
18.269	30.27	60.00	29.73				19.60	L1	9.000	1.000
18.515				19.07	50.00	30.93	19.61	L1	9.000	1.000

**Remark: Correct factor=cable loss + LISN factor**

L line Conducted Emission from 150 kHz to 30 MHz



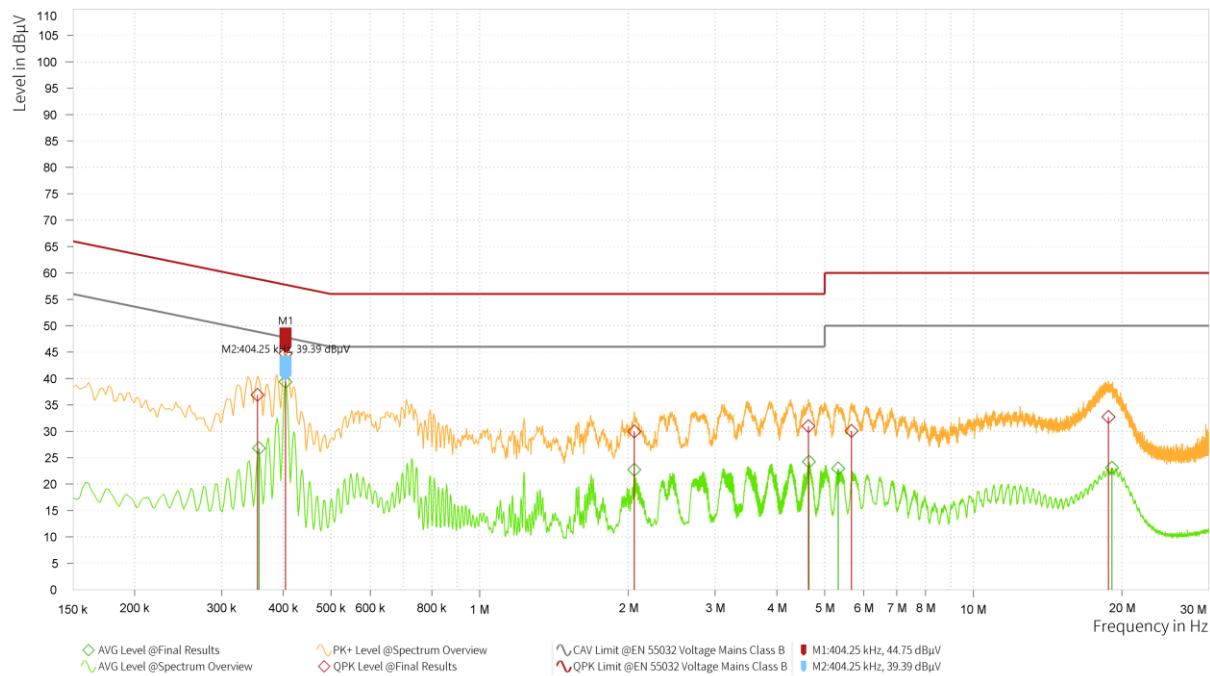
Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.355	36.95	58.85	21.90				20.93	N	9.000	1.000
0.357				26.67	48.80	22.13	20.93	N	9.000	1.000
0.404	44.72	57.77	13.04	39.32	47.77	8.44	20.88	N	9.000	1.000
2.054				22.53	46.00	23.47	19.64	N	9.000	1.000
2.056	29.83	56.00	26.17				19.64	N	9.000	1.000
4.283	30.39	56.00	25.61				19.43	N	9.000	1.000
4.646				24.28	46.00	21.72	19.42	N	9.000	1.000
5.323	30.53	60.00	29.47				19.41	N	9.000	1.000
5.325				22.91	50.00	27.09	19.41	N	9.000	1.000
19.030	32.57	60.00	27.43				19.67	N	9.000	1.000
19.064				22.96	50.00	27.04	19.68	N	9.000	1.000

**Remark: Correct factor=cable loss + LISN factor**

N line Conducted Emission from 150 kHz to 30 MHz

## Bluetooth LE

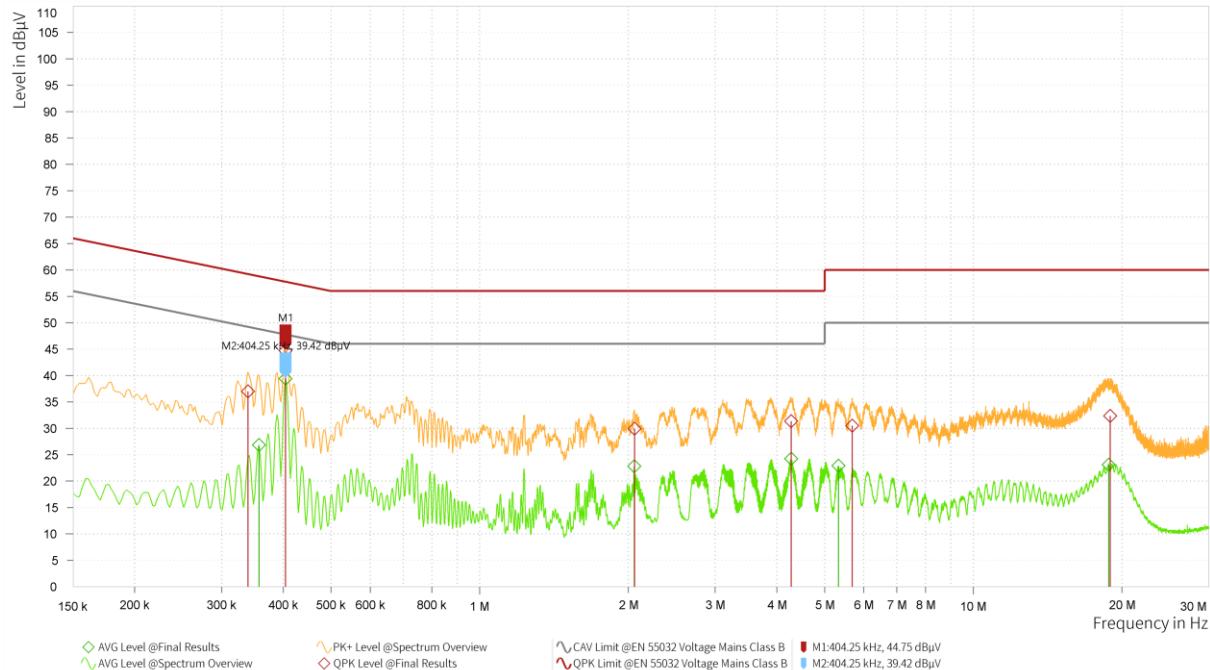
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.355	36.90	58.85	21.95				20.92	L1	9.000	1.000
0.357				26.80	48.80	21.99	20.92	L1	9.000	1.000
0.404	44.75	57.77	13.01	39.39	47.77	8.38	20.87	L1	9.000	1.000
2.056	29.96	56.00	26.04	22.71	46.00	23.29	19.63	L1	9.000	1.000
4.632	30.96	56.00	25.04				19.41	L1	9.000	1.000
4.646				24.24	46.00	21.76	19.41	L1	9.000	1.000
5.327				22.96	50.00	27.04	19.40	L1	9.000	1.000
5.667	30.07	60.00	29.93				19.40	L1	9.000	1.000
18.787	32.75	60.00	27.25				19.62	L1	9.000	1.000
19.086				23.10	50.00	26.90	19.63	L1	9.000	1.000

**Remark: Correct factor=cable loss + LISN factor**

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dB $\mu$ V]	QPK Limit [dB $\mu$ V]	QPK Margin [dB]	AVG Level [dB $\mu$ V]	AVG: CAV Limit [dB $\mu$ V]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.339	37.01	59.23	22.22				20.94	N	9.000	1.000
0.357				26.86	48.80	21.94	20.93	N	9.000	1.000
0.404	44.75	57.77	13.02	39.42	47.77	8.35	20.88	N	9.000	1.000
2.056				22.84	46.00	23.16	19.64	N	9.000	1.000
2.058	29.92	56.00	26.08				19.64	N	9.000	1.000
4.274	31.36	56.00	24.64				19.43	N	9.000	1.000
4.277				24.23	46.00	21.77	19.43	N	9.000	1.000
5.330				22.91	50.00	27.09	19.41	N	9.000	1.000
5.683	30.52	60.00	29.48				19.41	N	9.000	1.000
18.807				23.11	50.00	26.89	19.67	N	9.000	1.000
18.951	32.36	60.00	27.64				19.67	N	9.000	1.000

**Remark: Correct factor=cable loss + LISN factor**

N line Conducted Emission from 150 kHz to 30 MHz

## 6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2025-05-06	2026-05-05
Spectrum Analyzer	KEYSIGHT	N9020A	MY50510203	2024-12-02	2025-12-01
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
EMI Test Receiver	R&S	ESR	102389	2025-05-06	2026-05-05
Signal Analyzer	R&S	FSV40	101298	2025-05-07	2026-05-06
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01111	2022-10-25	2025-10-24
Horn Antenna	R&S	HF 907	102723	2023-11-24	2026-11-23
Amplifier	R&S	SCU18	10034	2025-05-06	2026-05-05
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

## ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

## ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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