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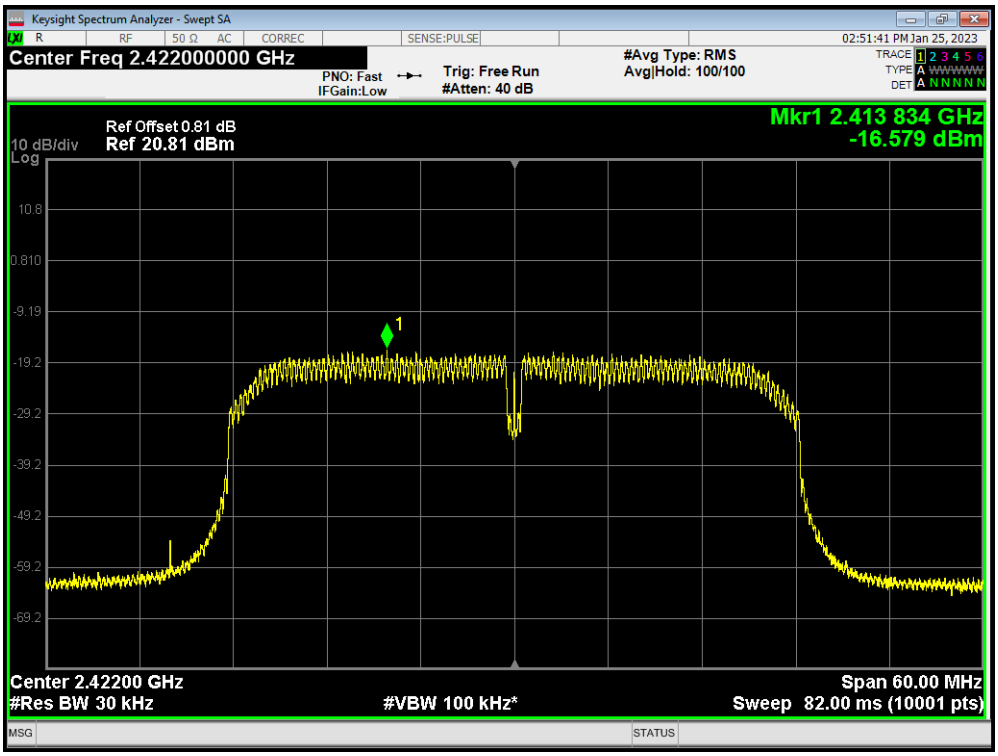

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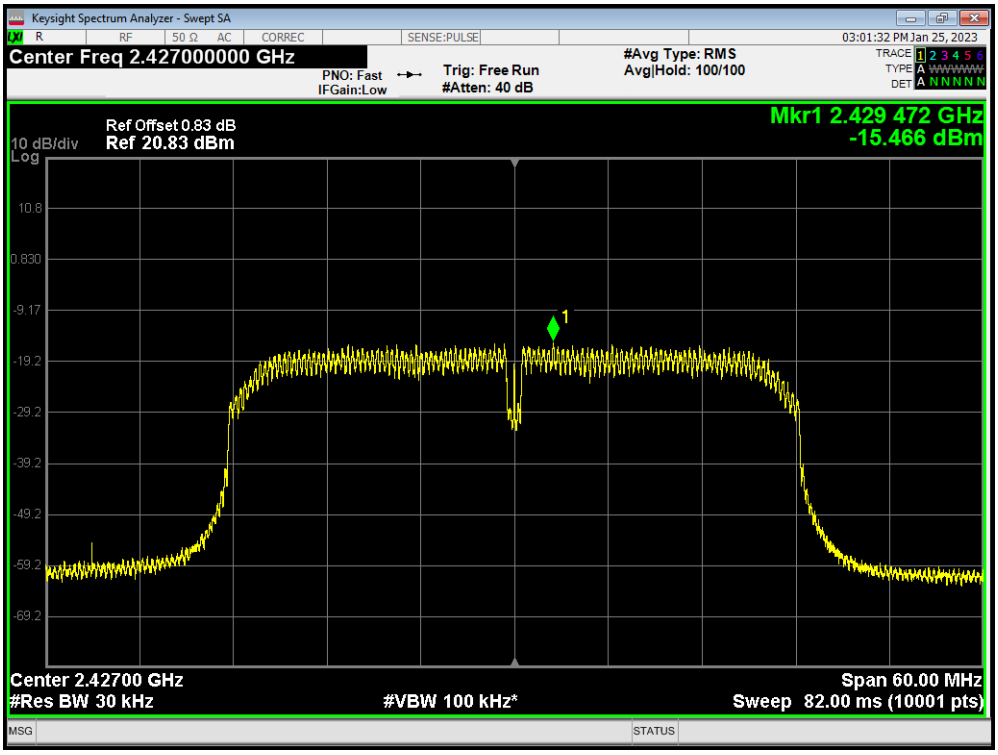

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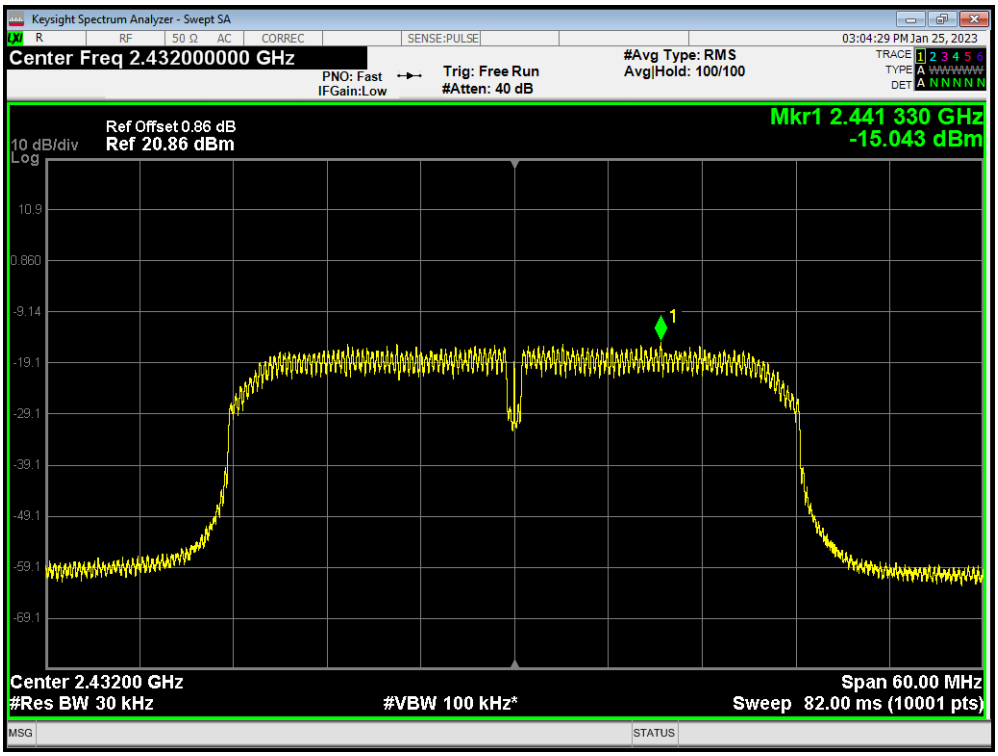

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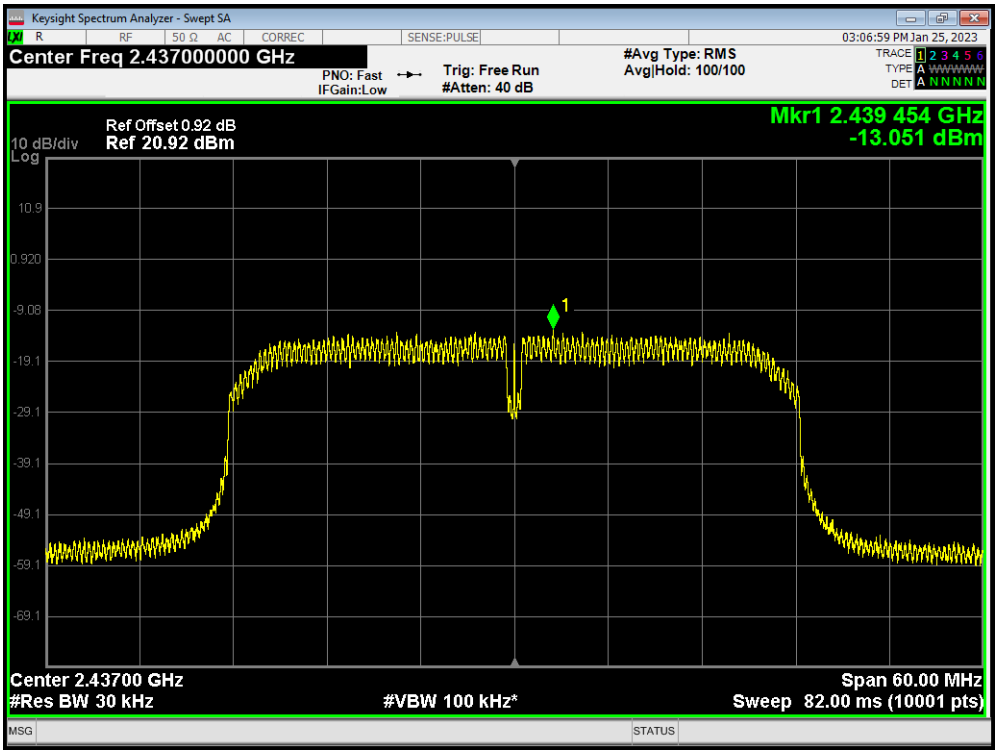

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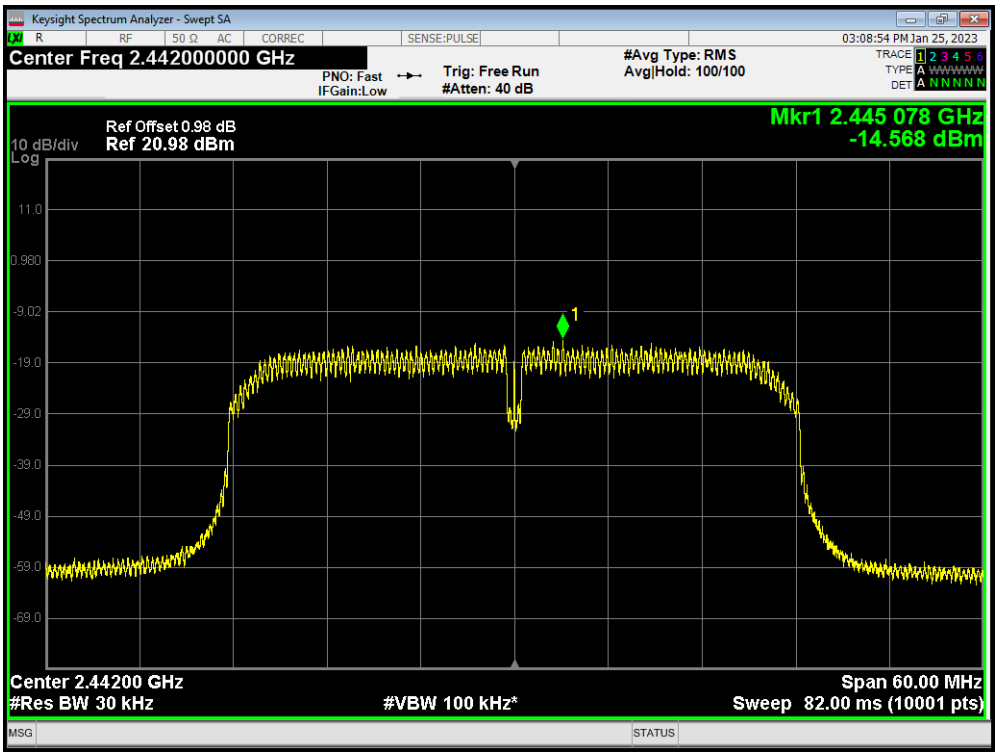

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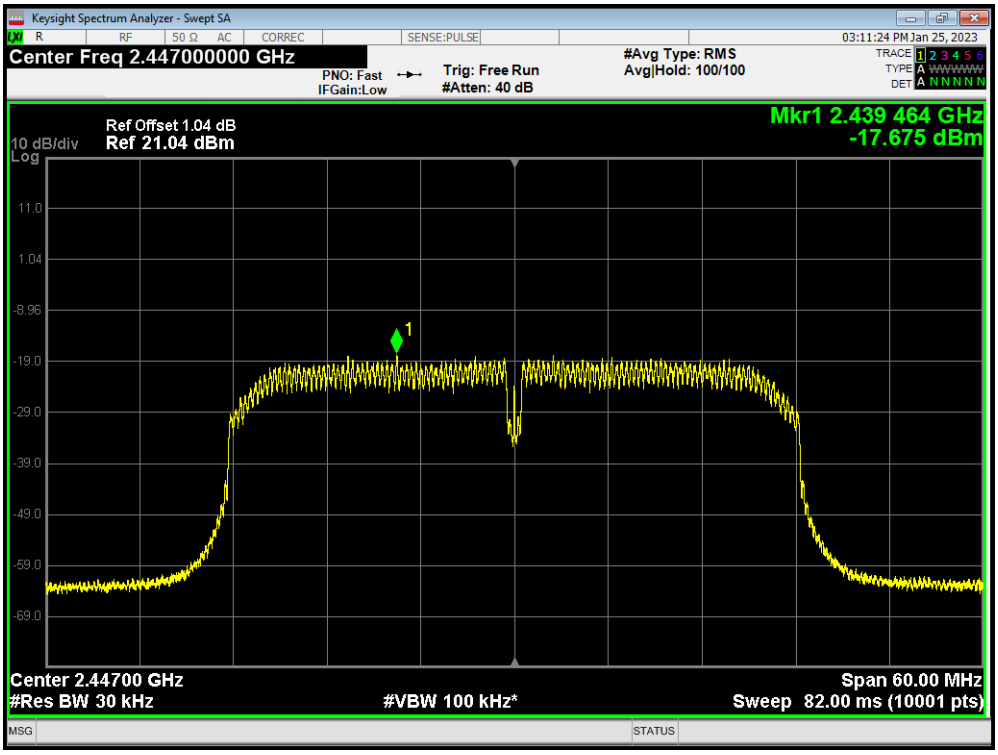

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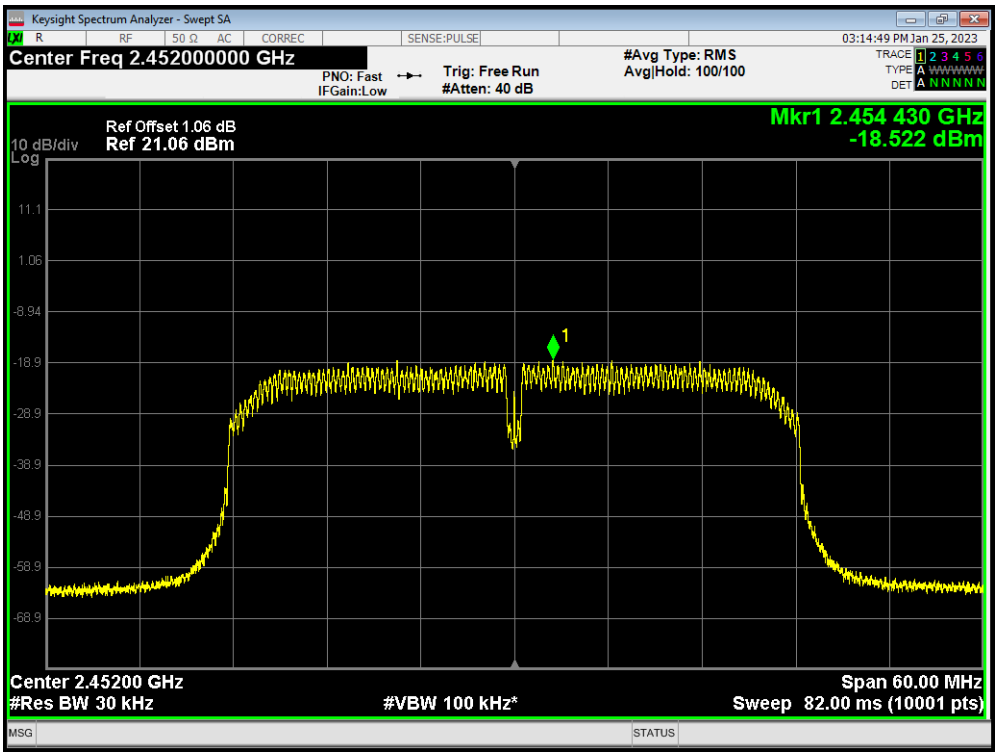
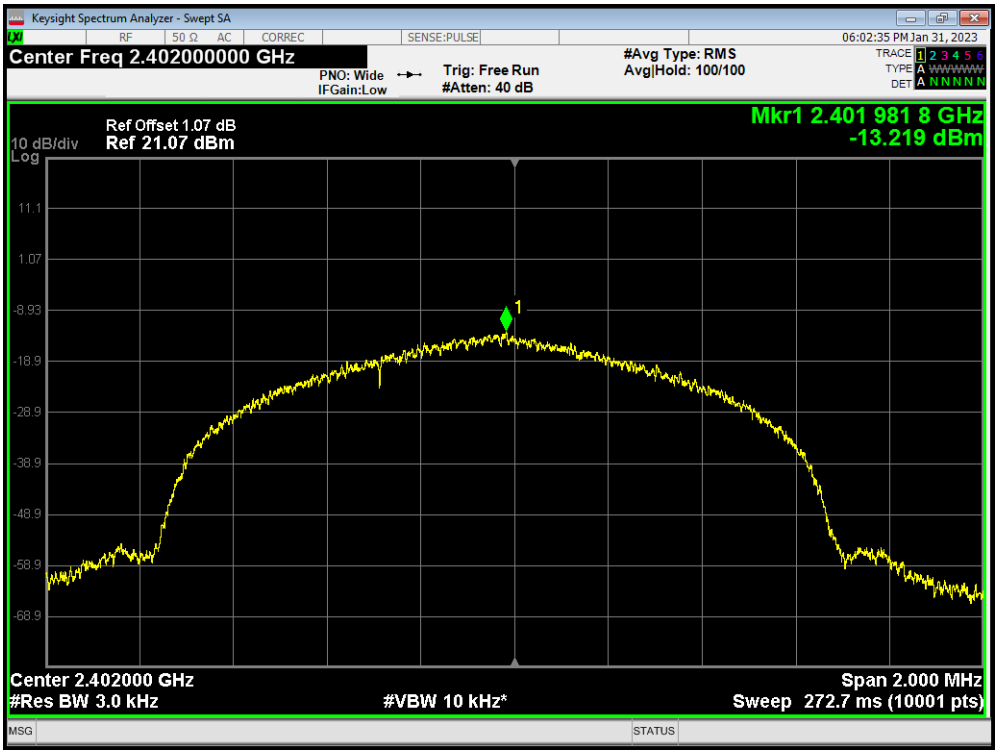


PSD BLE (1M) 2402MHz



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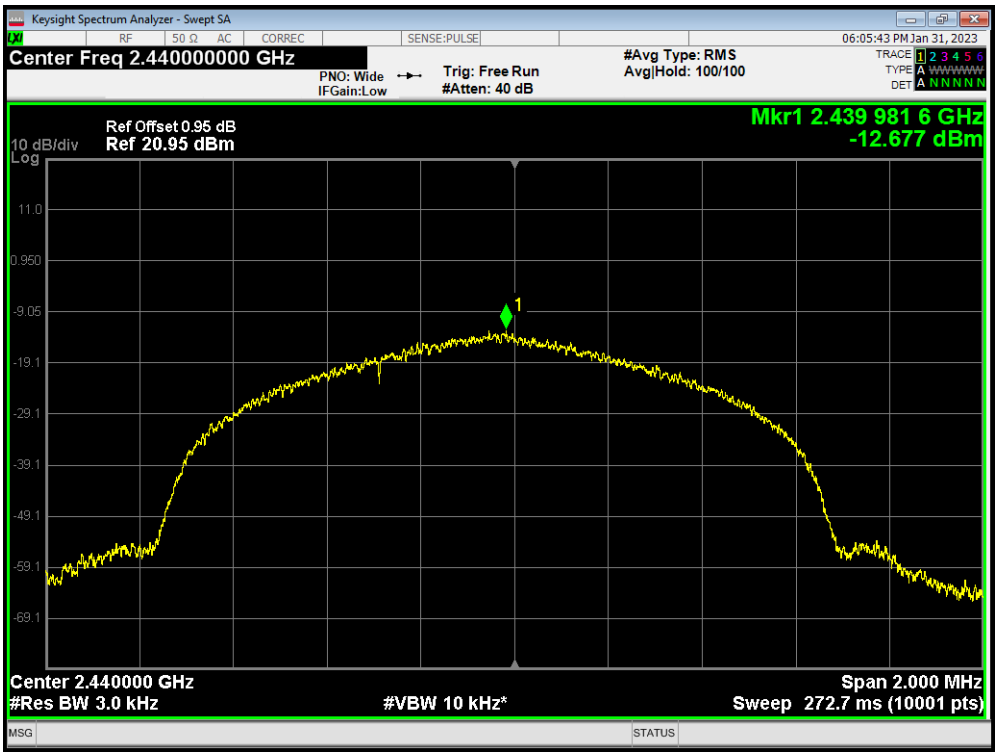

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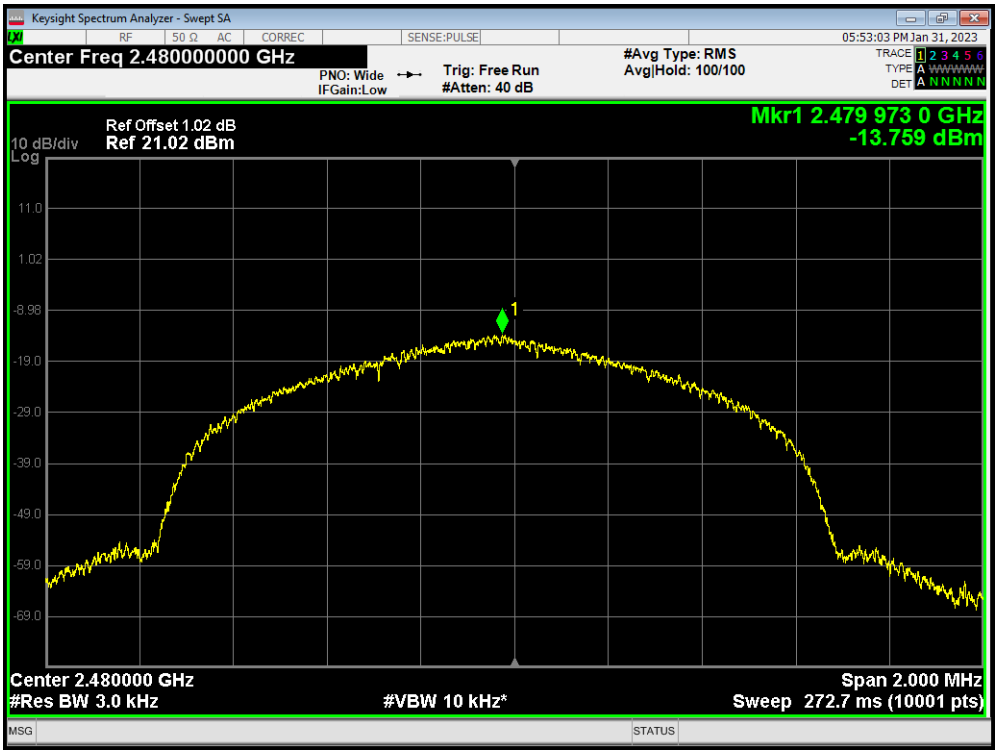

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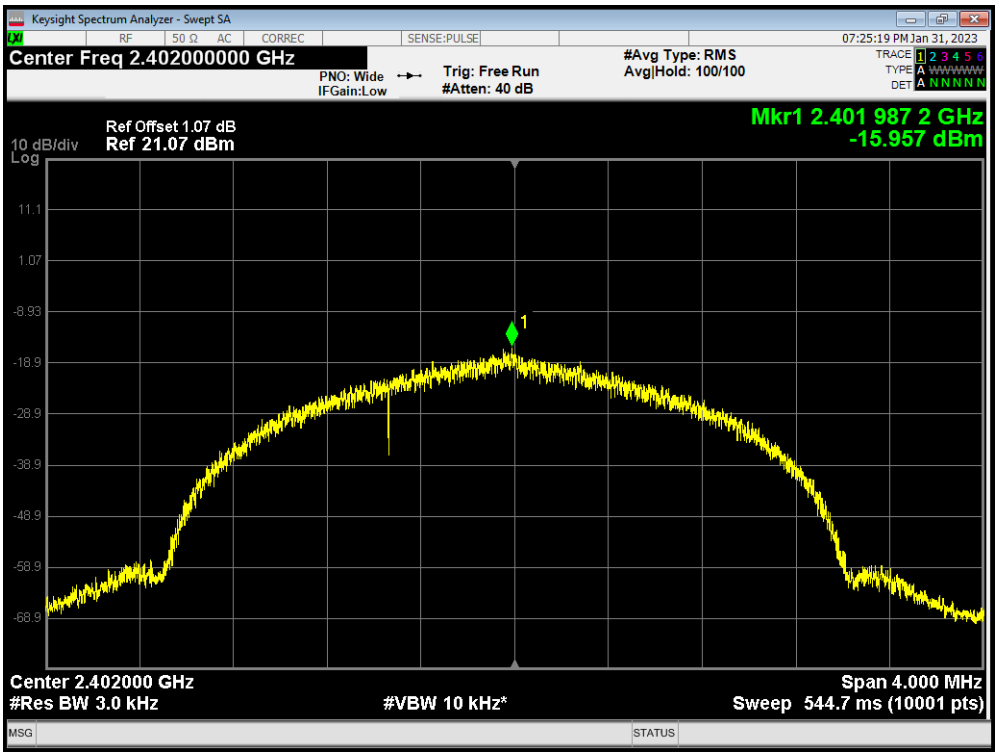

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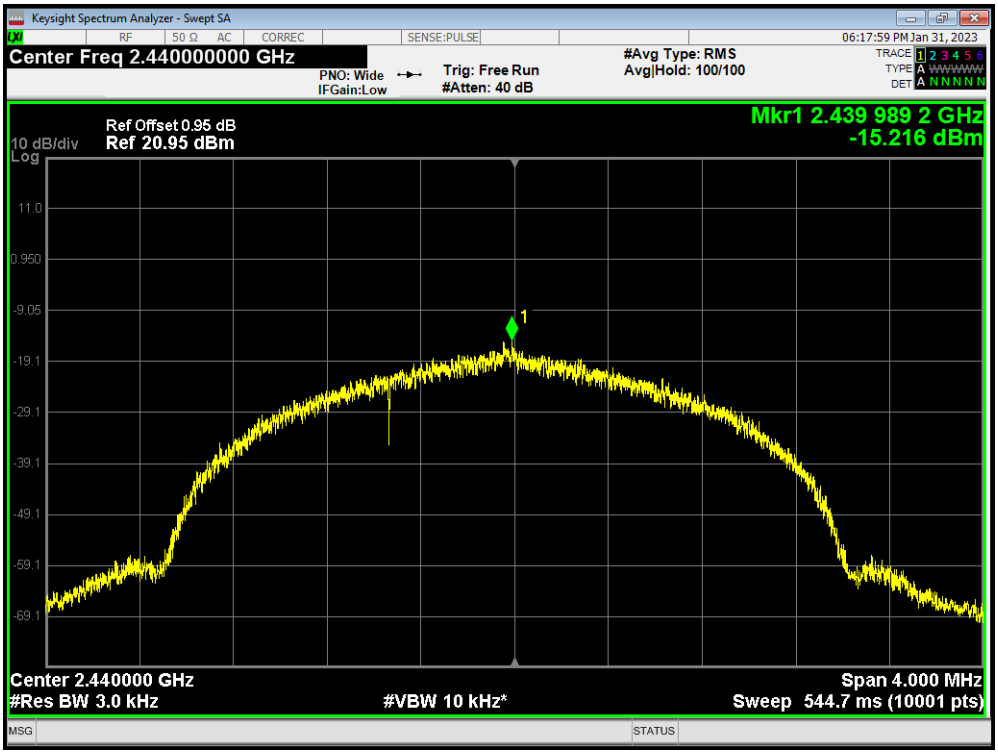

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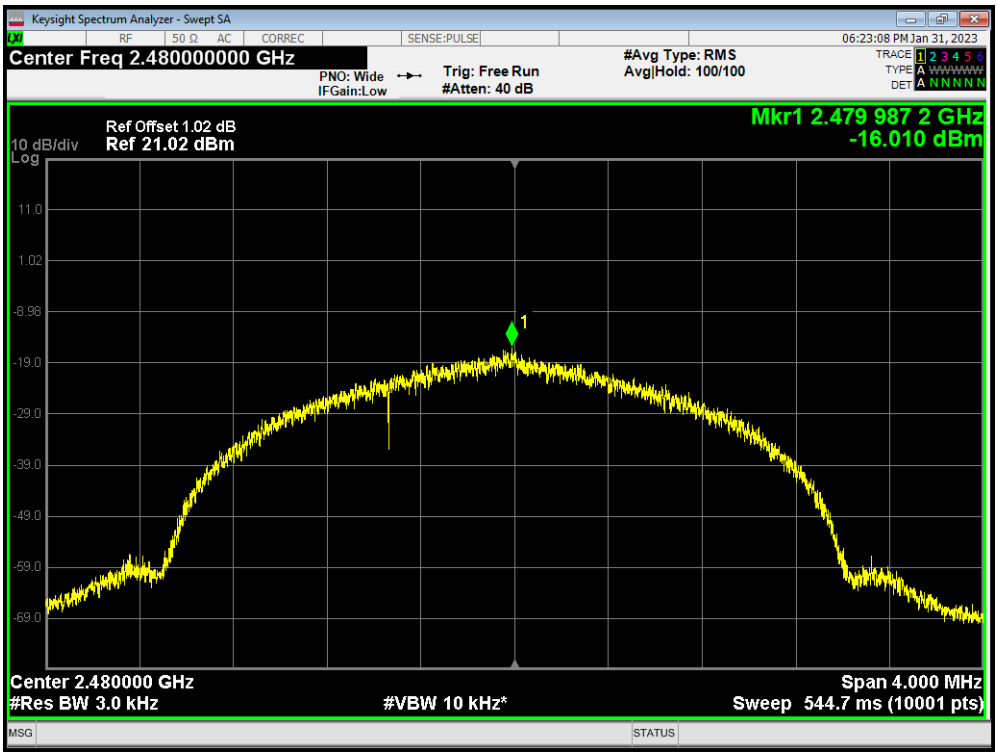

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5.5. Spurious RF Conducted Emissions

Ambient Condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to AUTO.
The test is in transmitting mode.

Test Setup

Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. ”

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	8.380	-21.62
	2437	7.770	-22.23
	2462	7.230	-22.77
802.11g	2412	1.220	-28.78
	2417	4.330	-25.67
	2422	5.840	-19.78
	2437	4.890	-20.22
	2442	5.700	-19.83
	2452	4.930	-25.07
	2457	2.120	-27.88
	2462	0.360	-29.64

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802.11n HT20	2412	-0.270	-30.27
	2417	3.440	-26.56
	2422	4.210	-25.79
	2437	4.740	-25.26
	2452	1.960	-28.04
	2457	2.670	-27.33
	2462	-1.020	-31.02
802.11n HT40	2422	-4.010	-34.01
	2427	-2.320	-32.32
	2432	-2.950	-32.95
	2437	-0.290	-30.29
	2442	-2.790	-32.79
	2447	-5.300	-35.30
	2452	-5.590	-35.59
Bluetooth (Low Energy) (1M)	2402	8.100	-21.90
	2440	8.050	-21.95
	2480	7.580	-22.42
Bluetooth (Low Energy) (2M)	2402	7.850	-22.15
	2440	8.930	-21.07
	2480	8.220	-21.78

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
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

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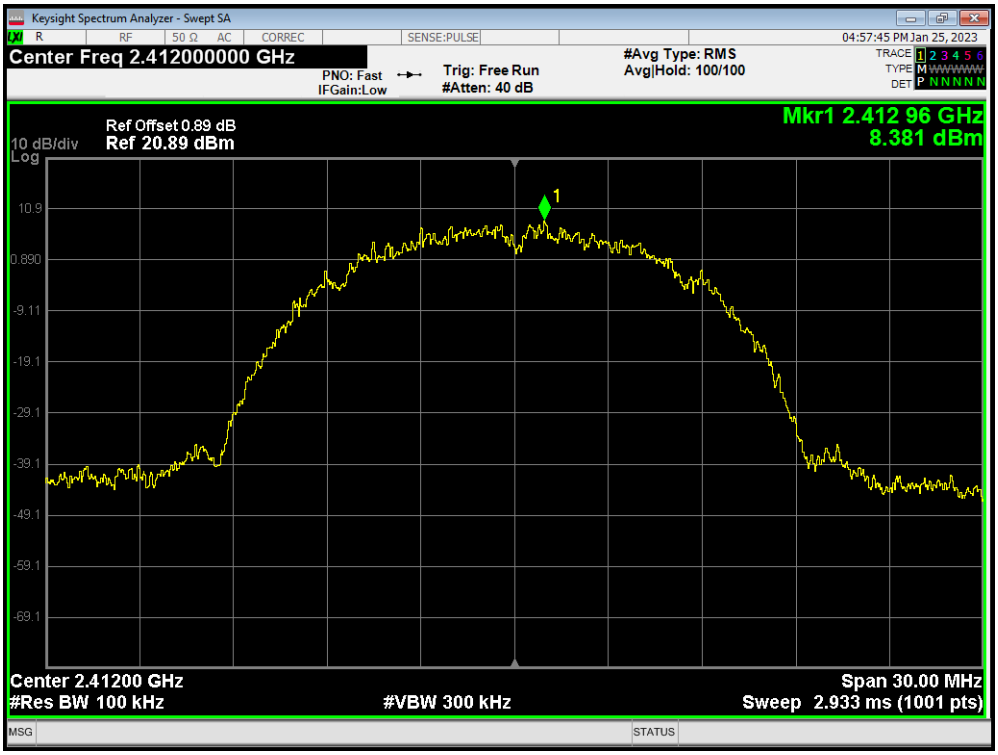
Test Results:

Tx. Spurious 802.11b 2412MHz Ref



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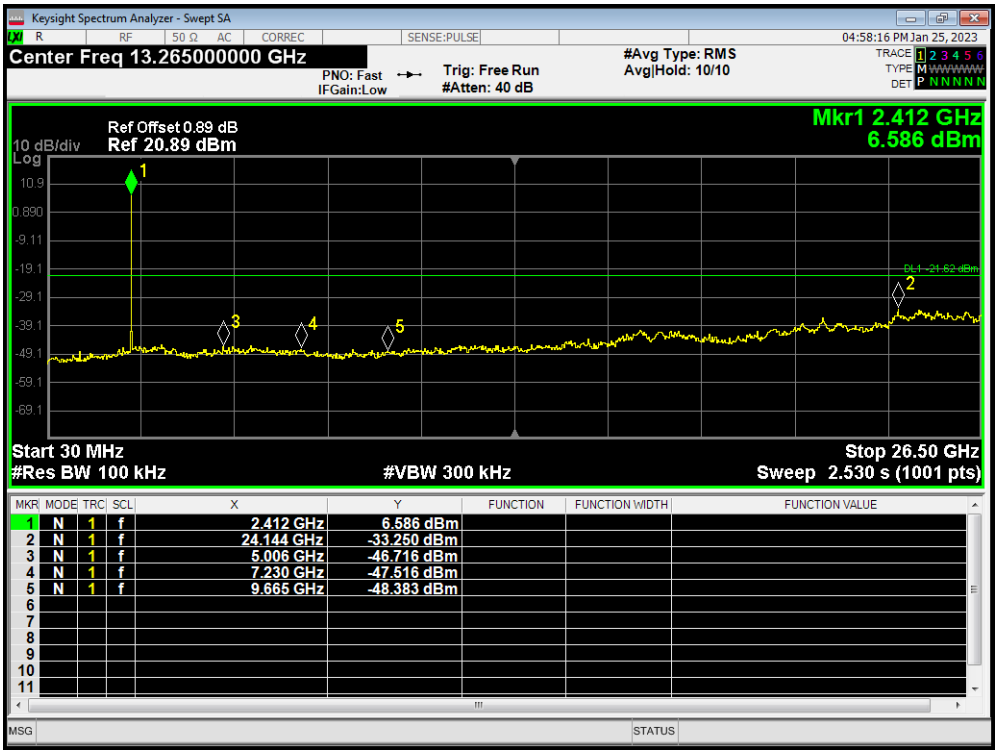

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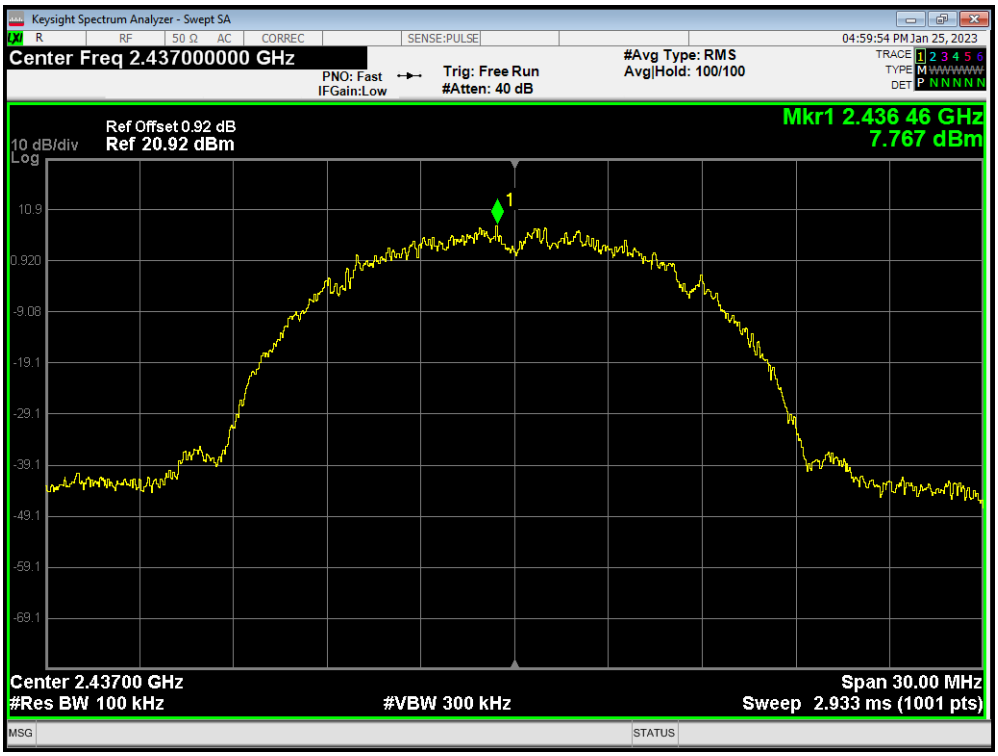

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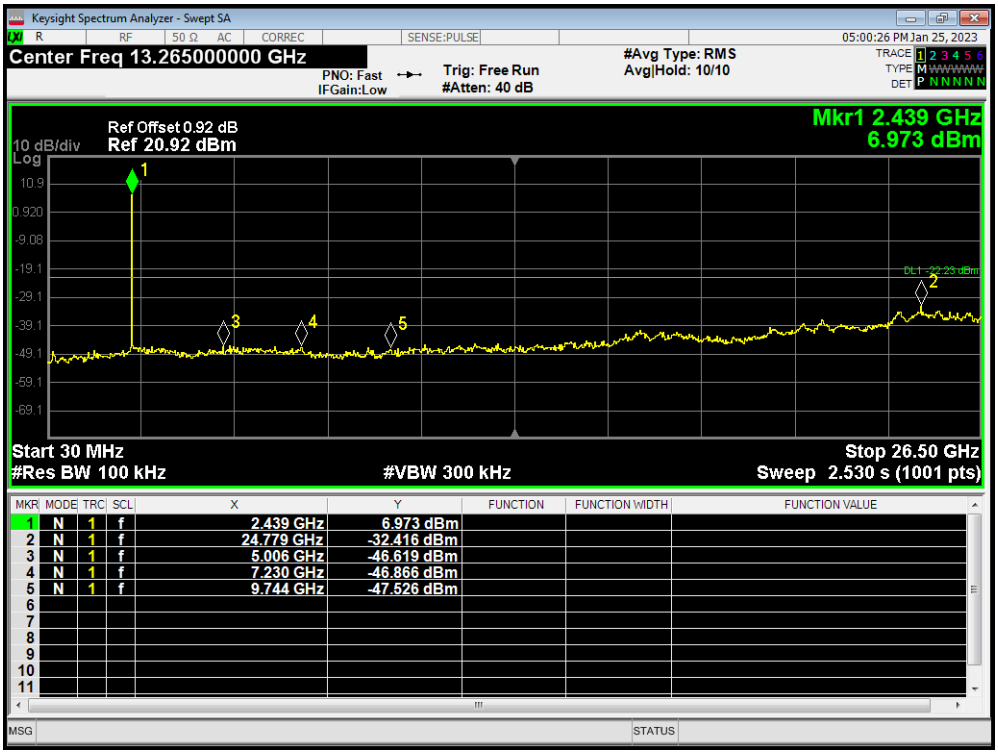

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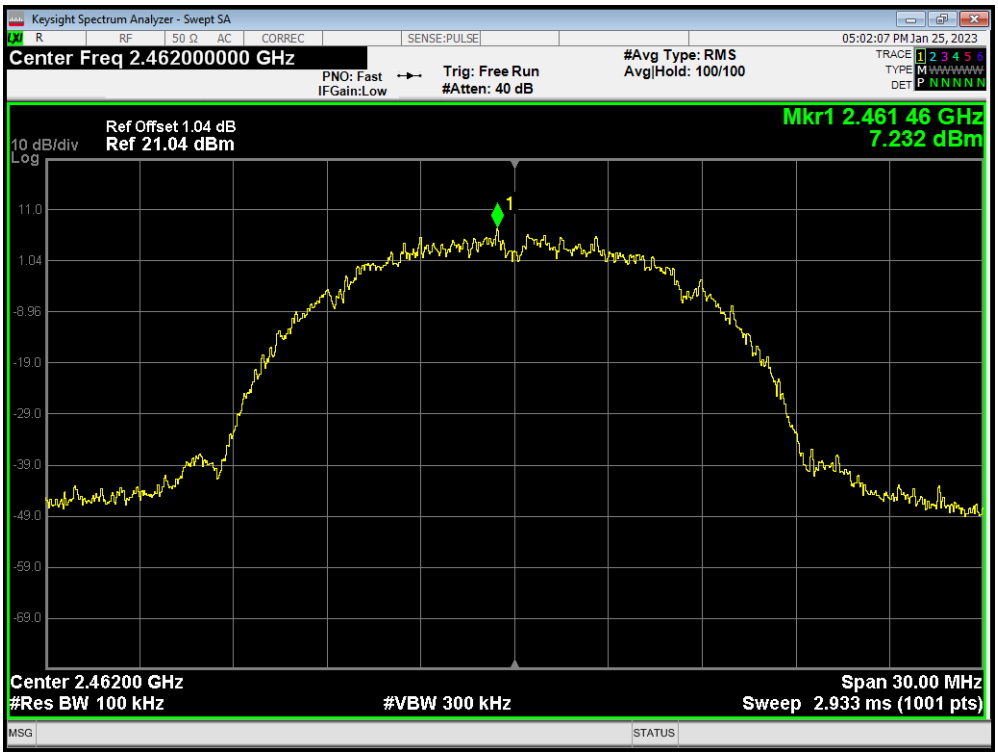

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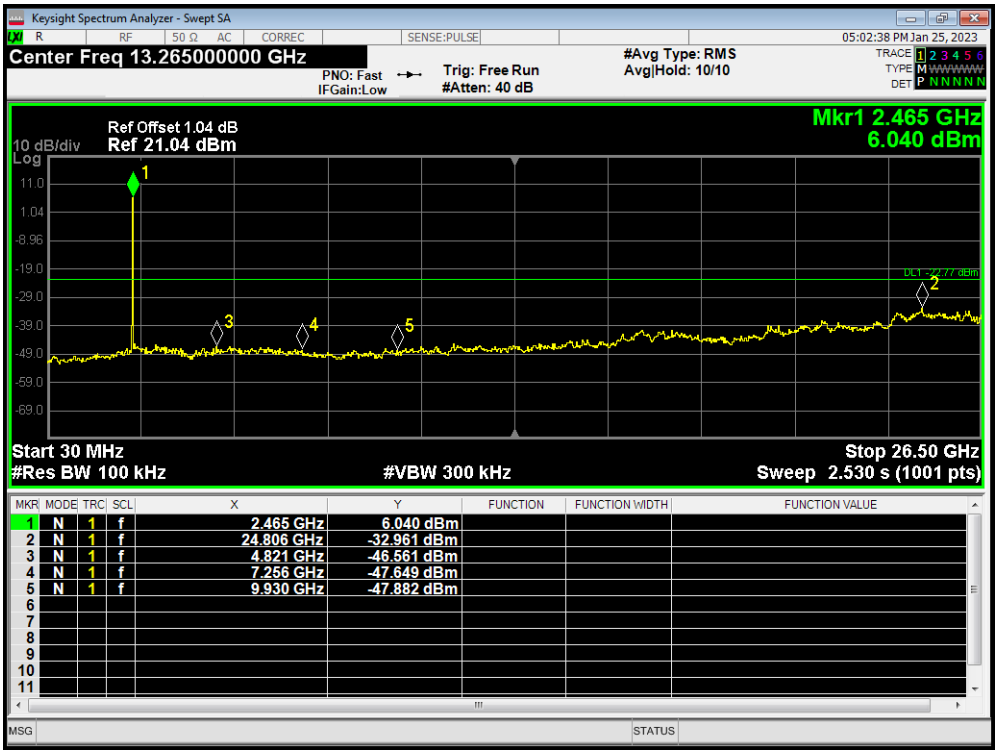

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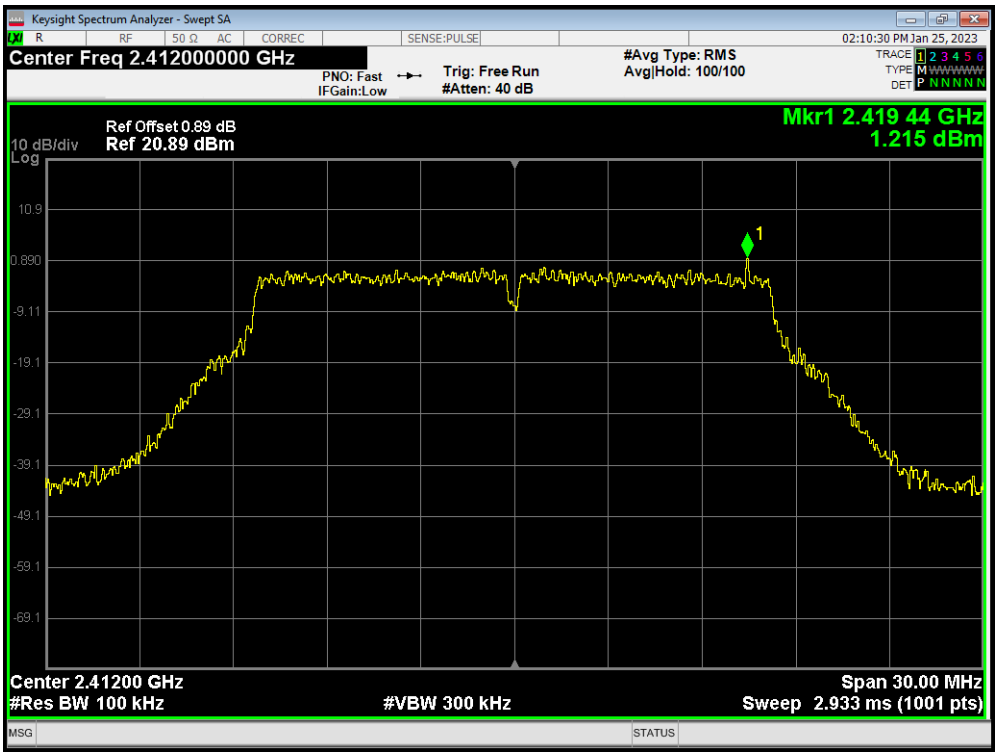
Tx. Spurious 802.11g 2412MHz Ref



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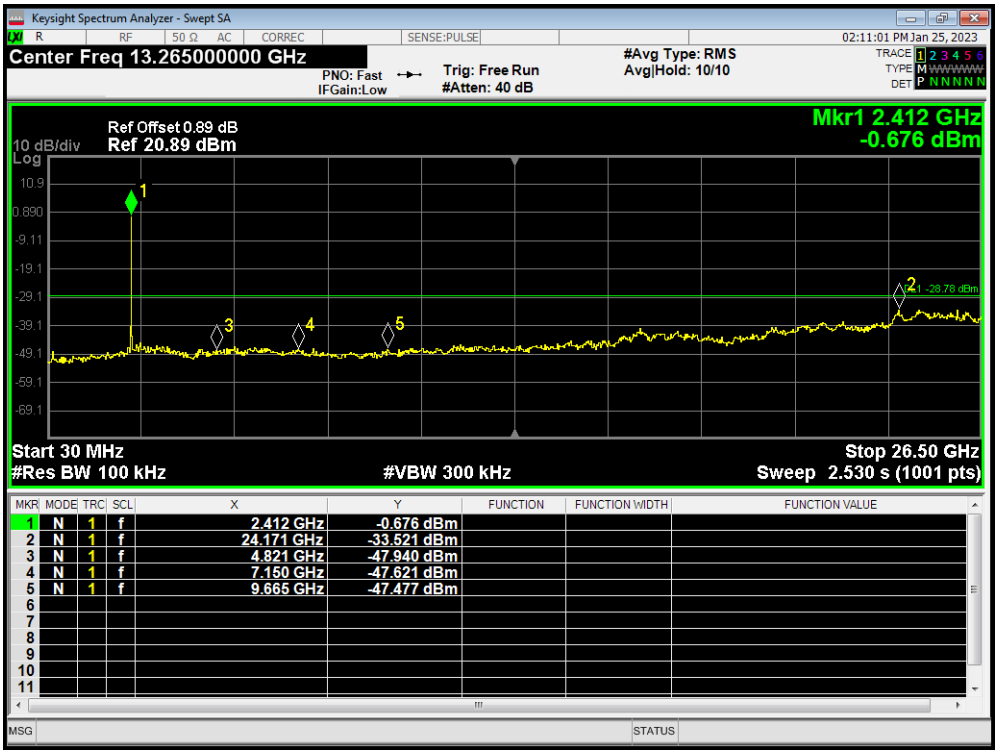

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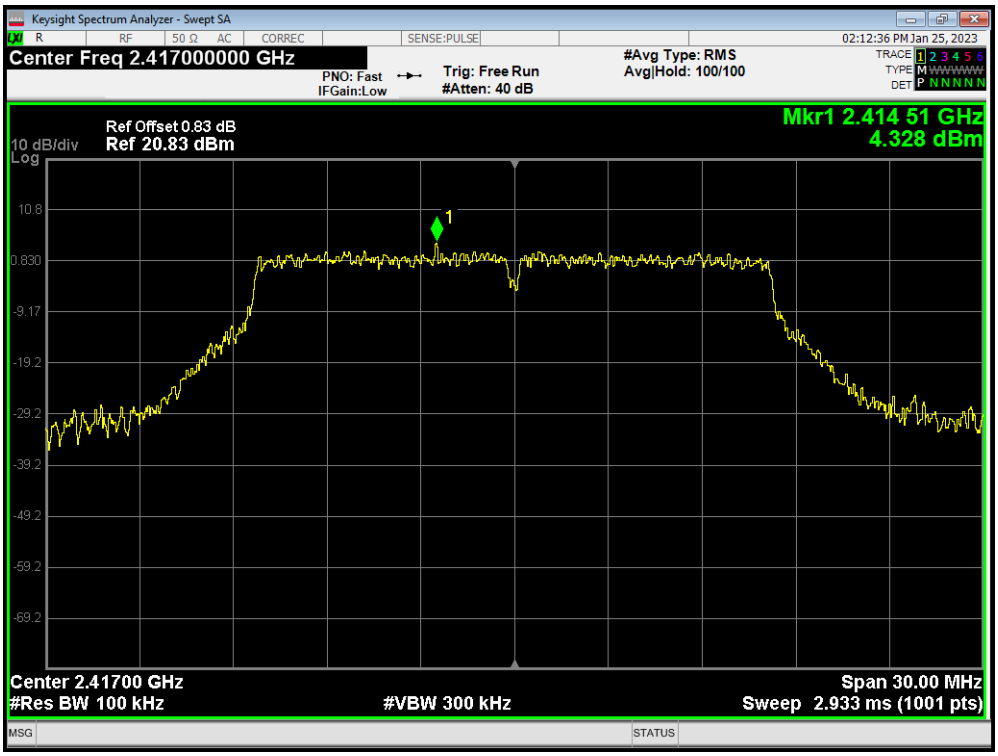

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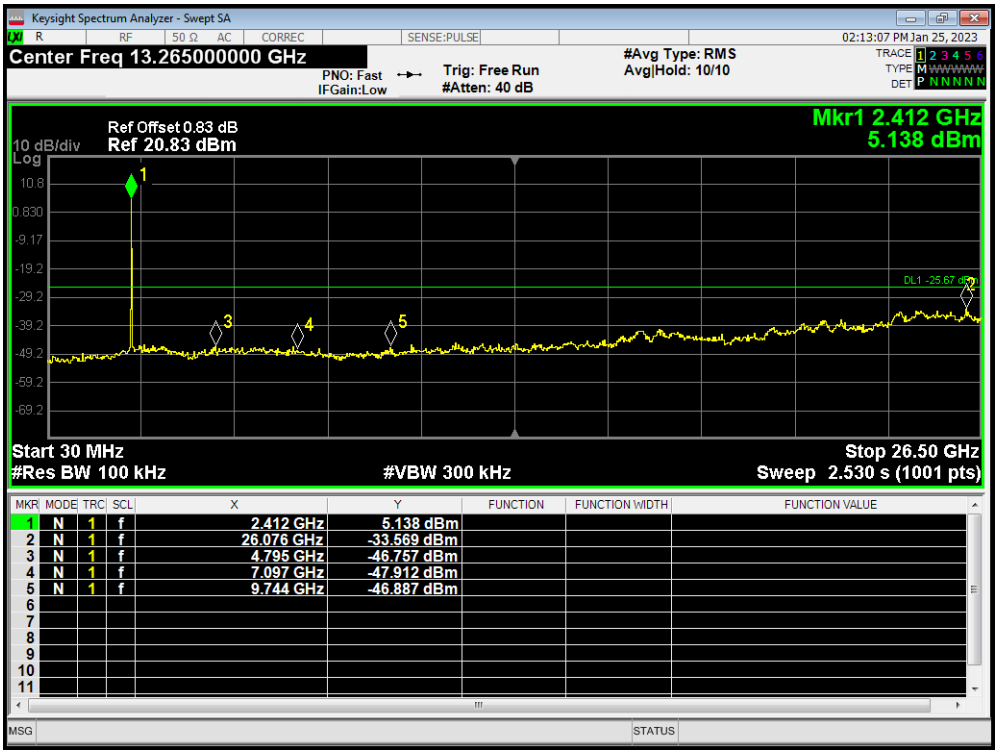

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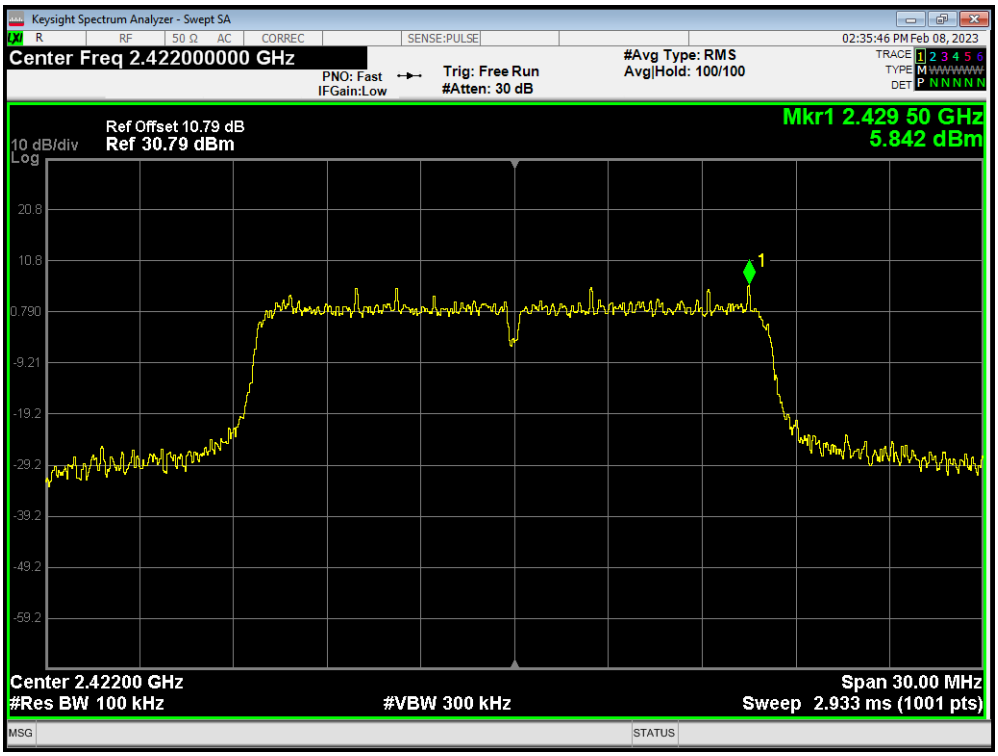

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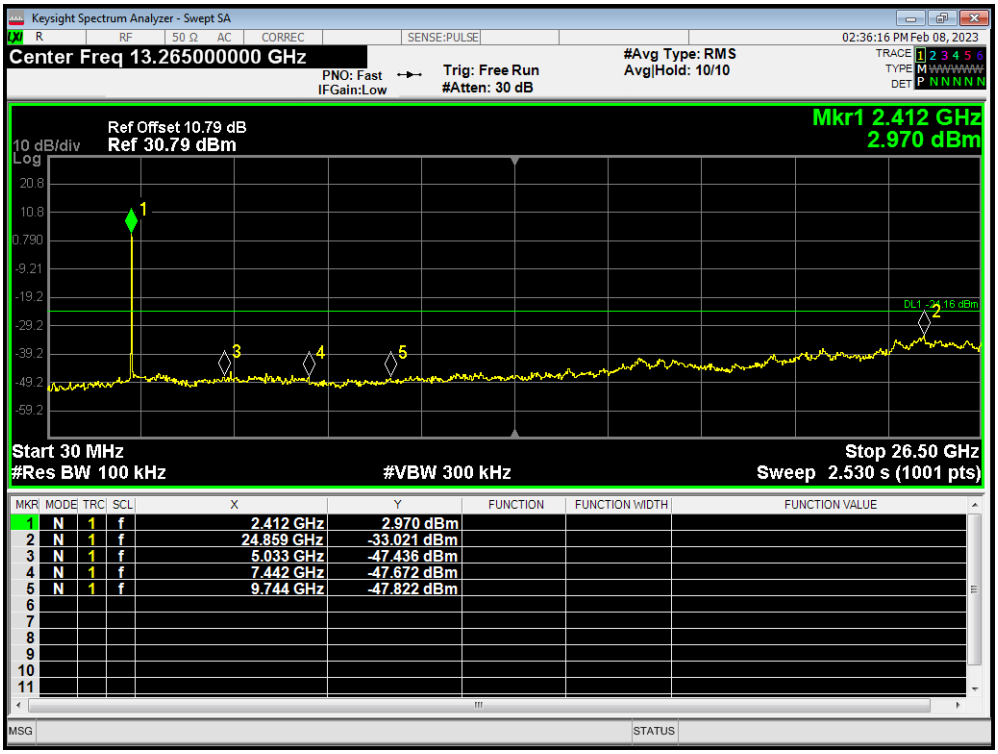

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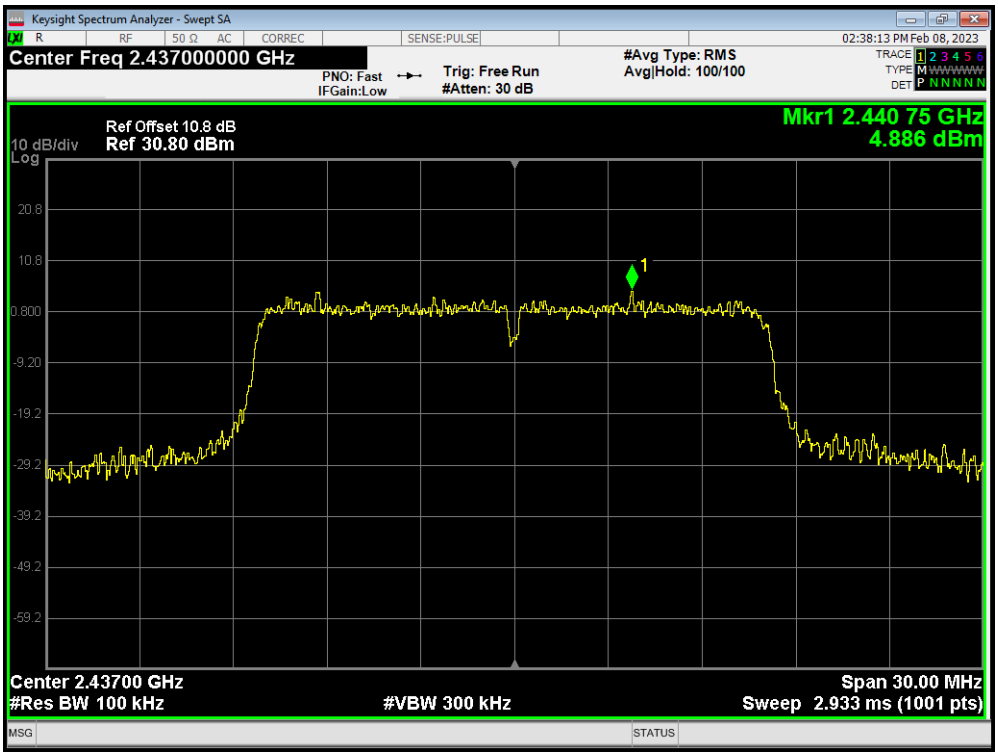

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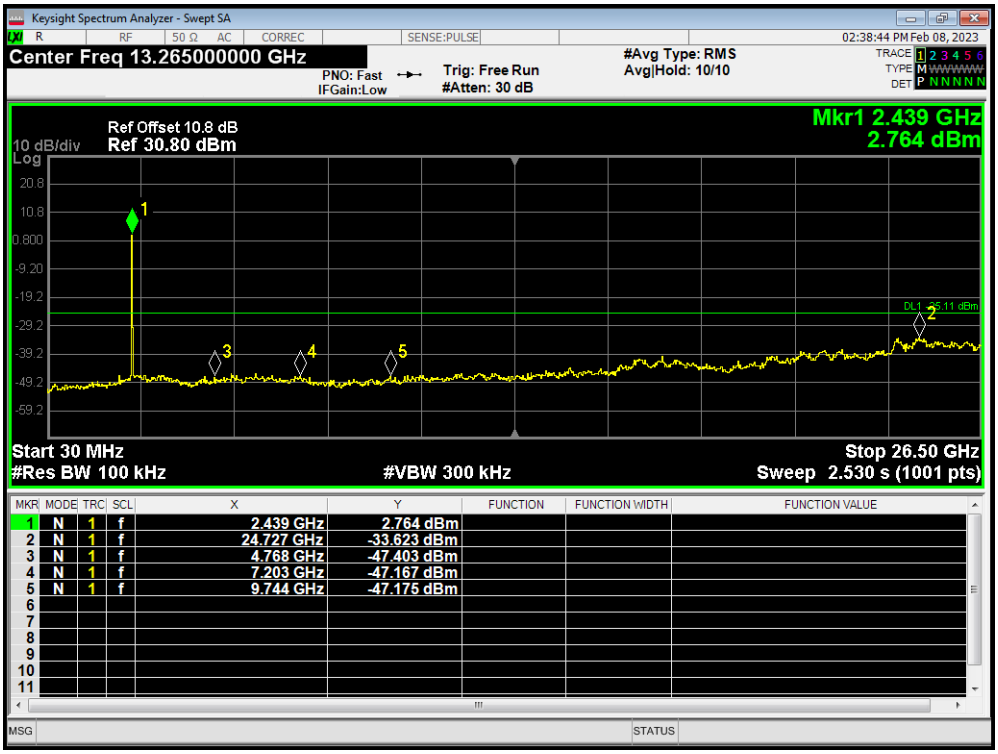

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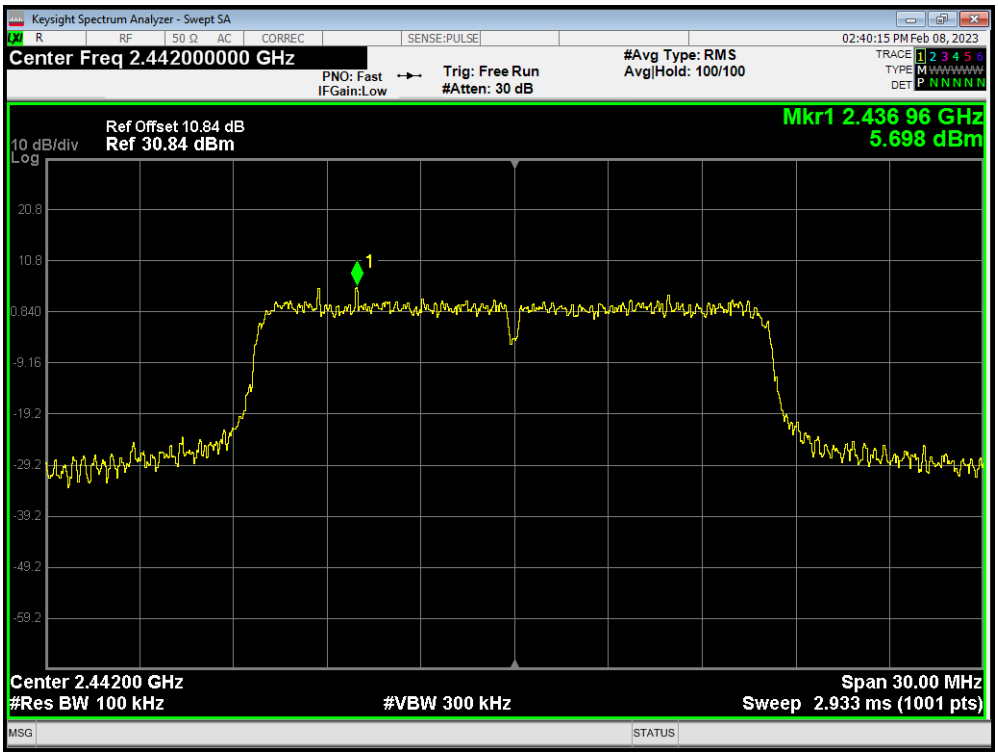

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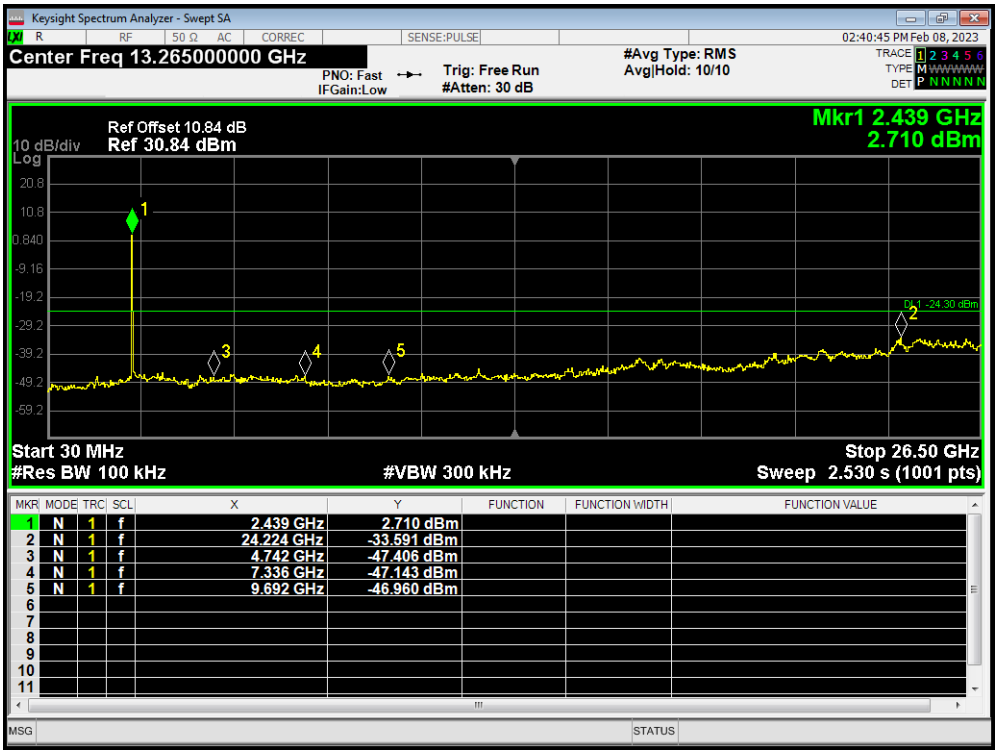

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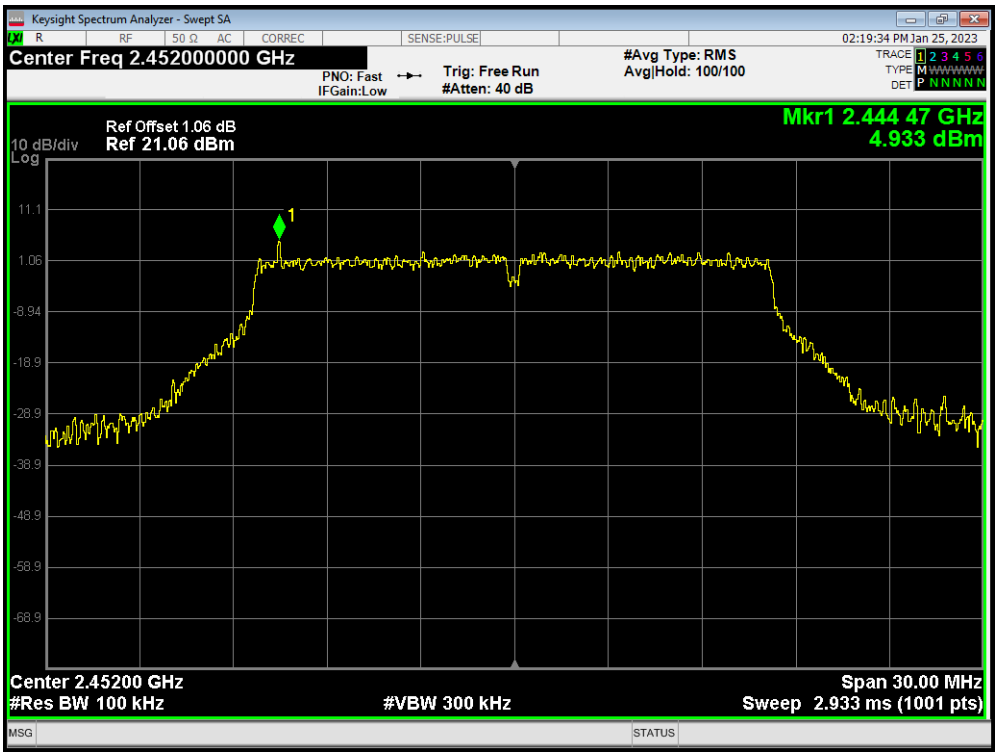

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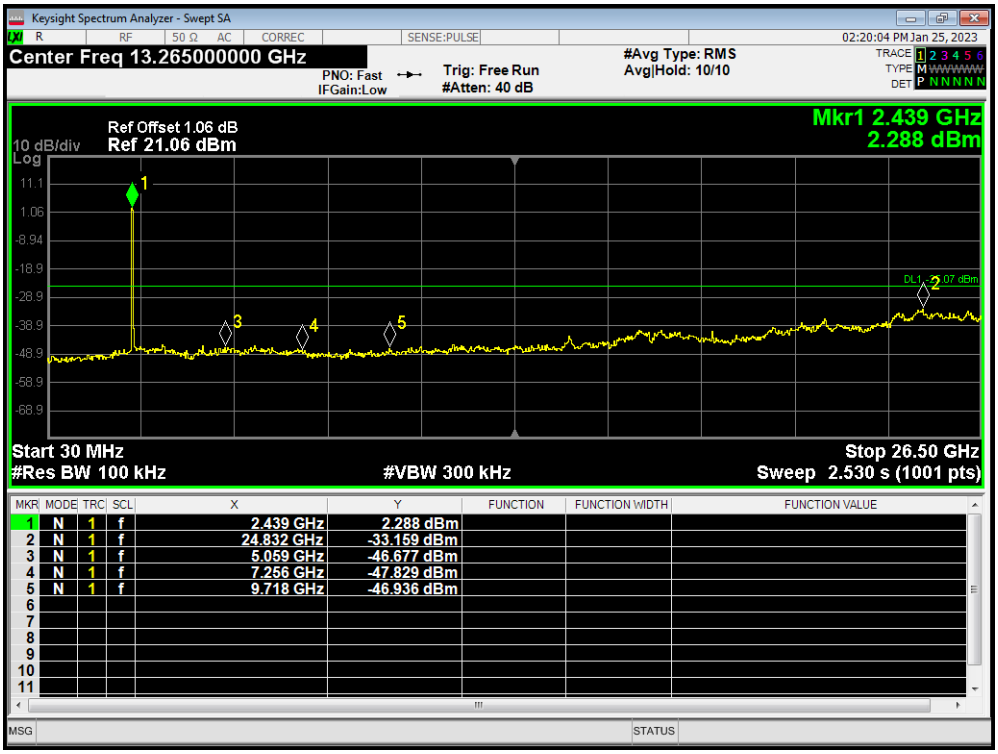

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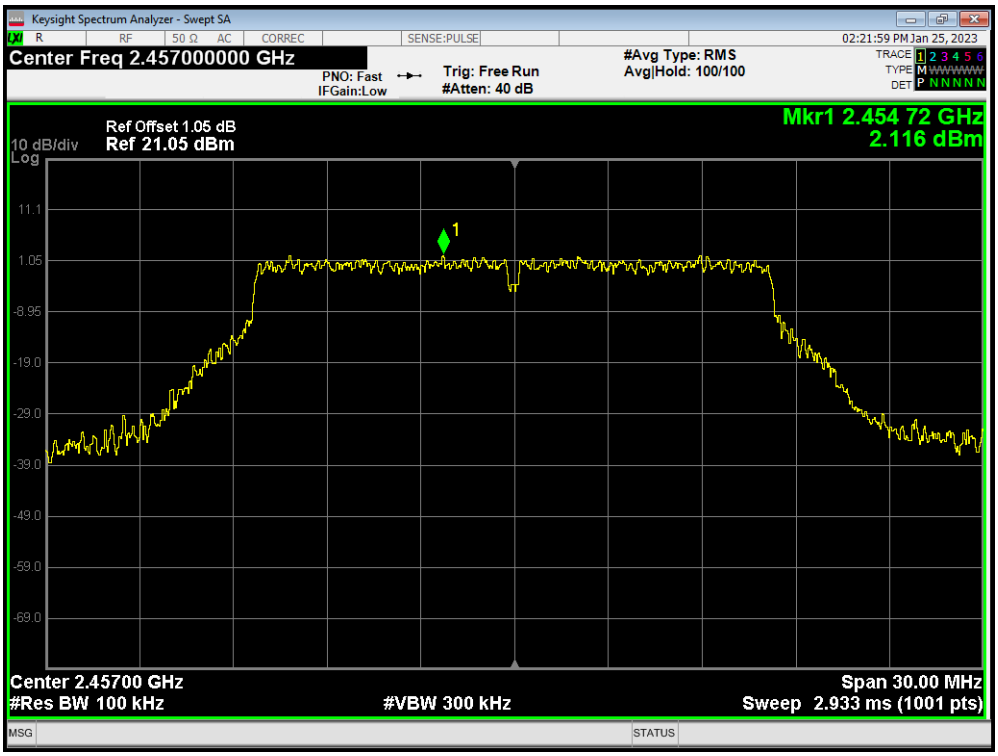

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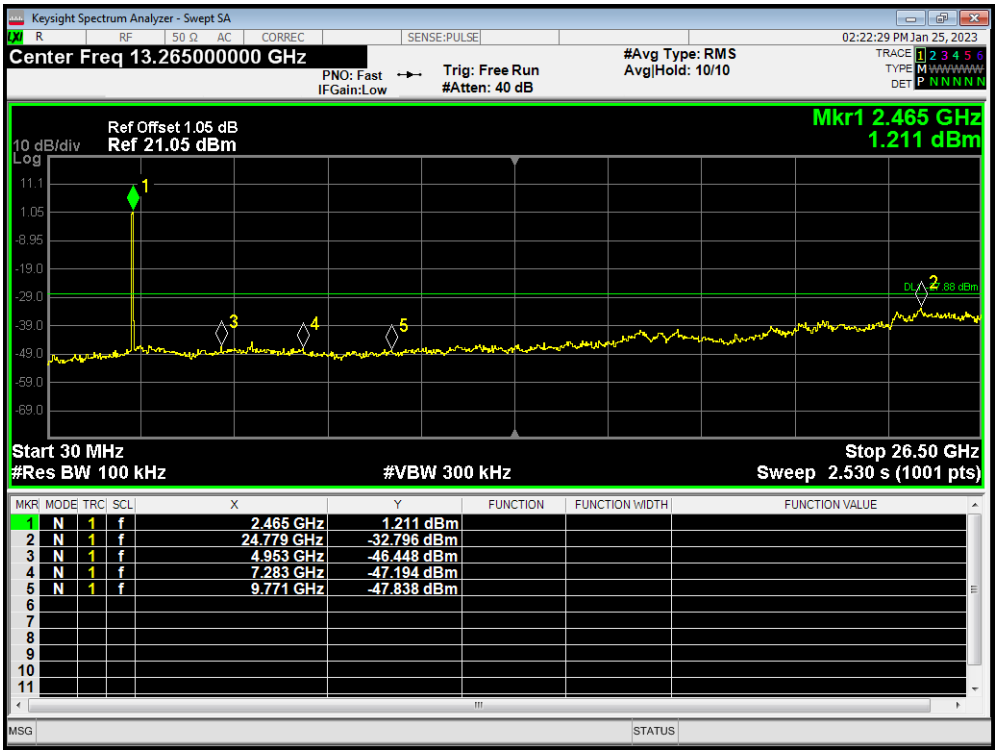

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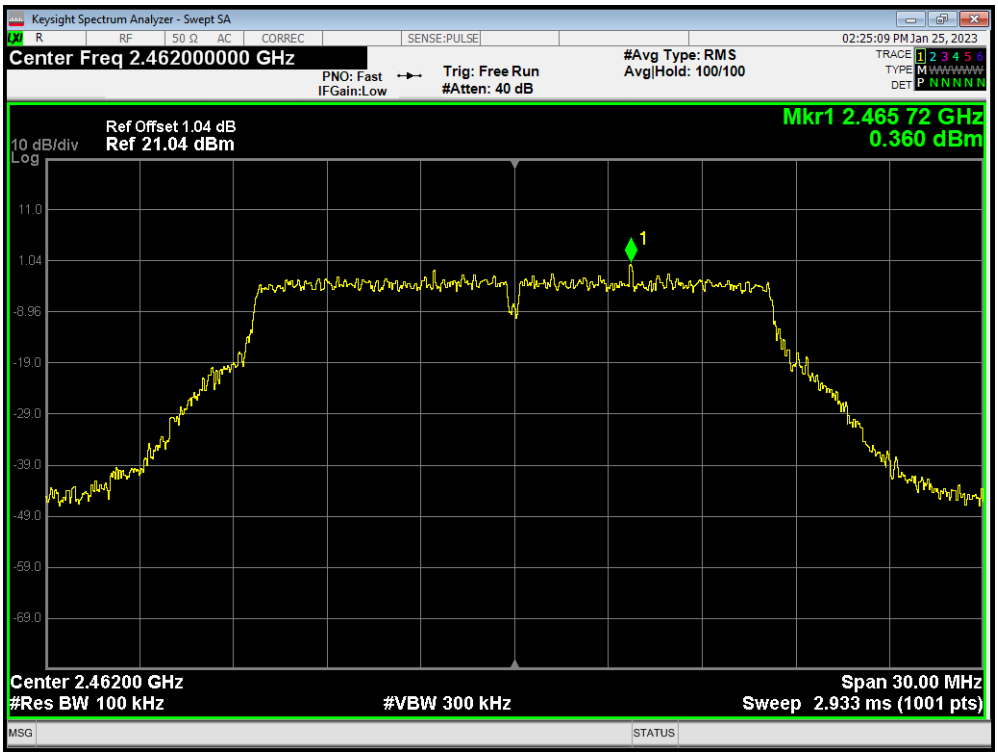

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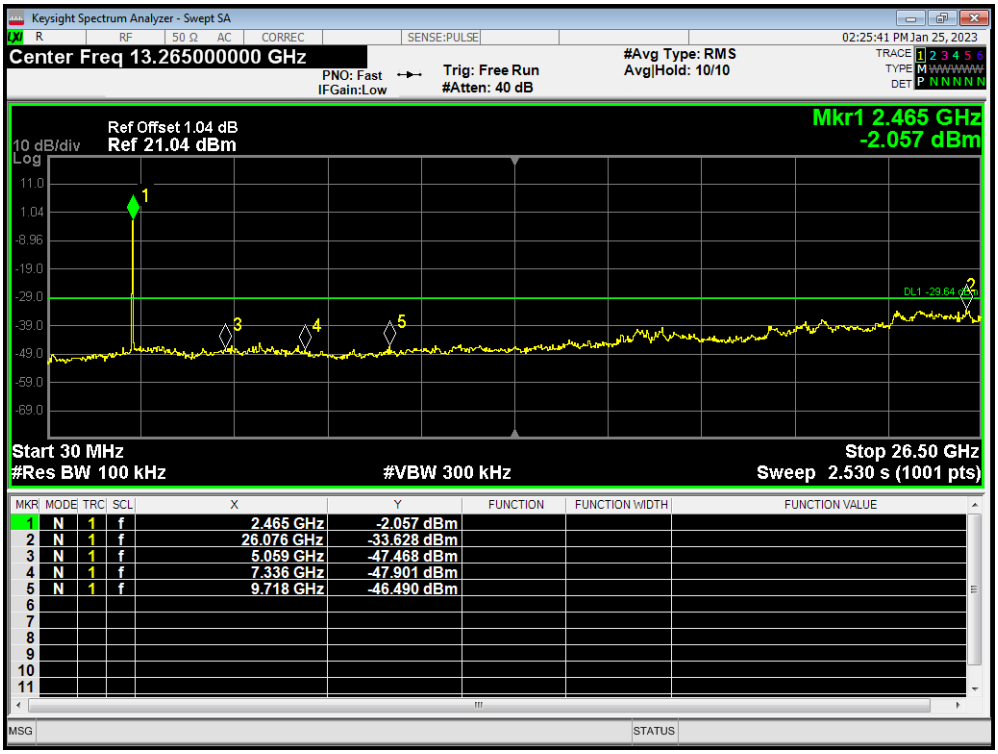

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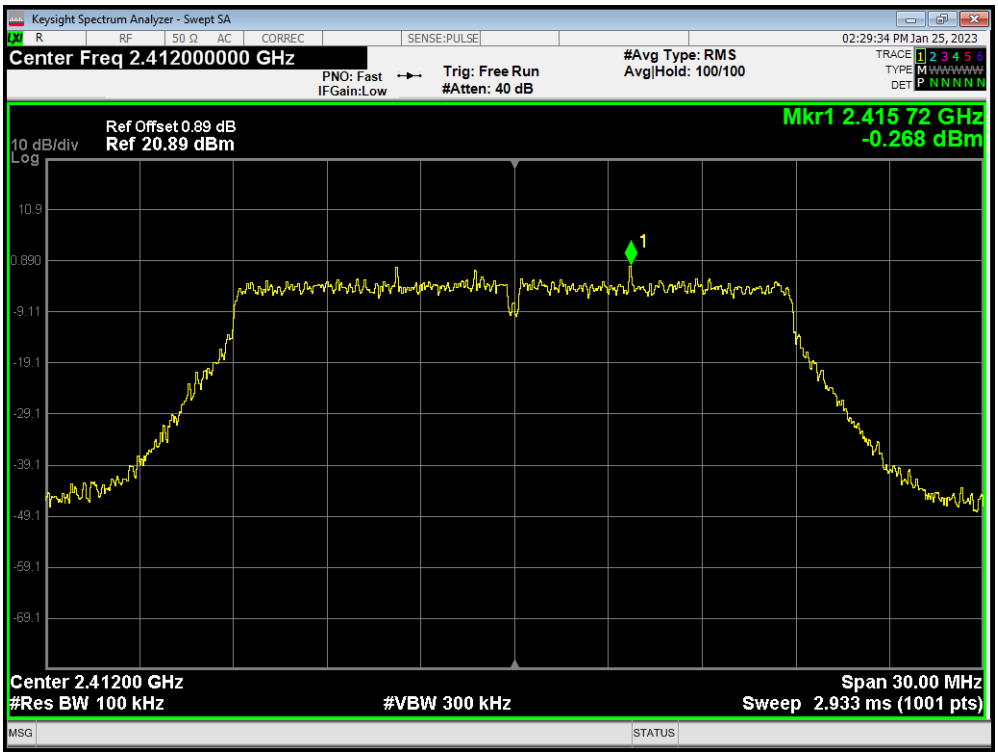
Tx. Spurious 802.11n(HT20) 2412MHz Ref



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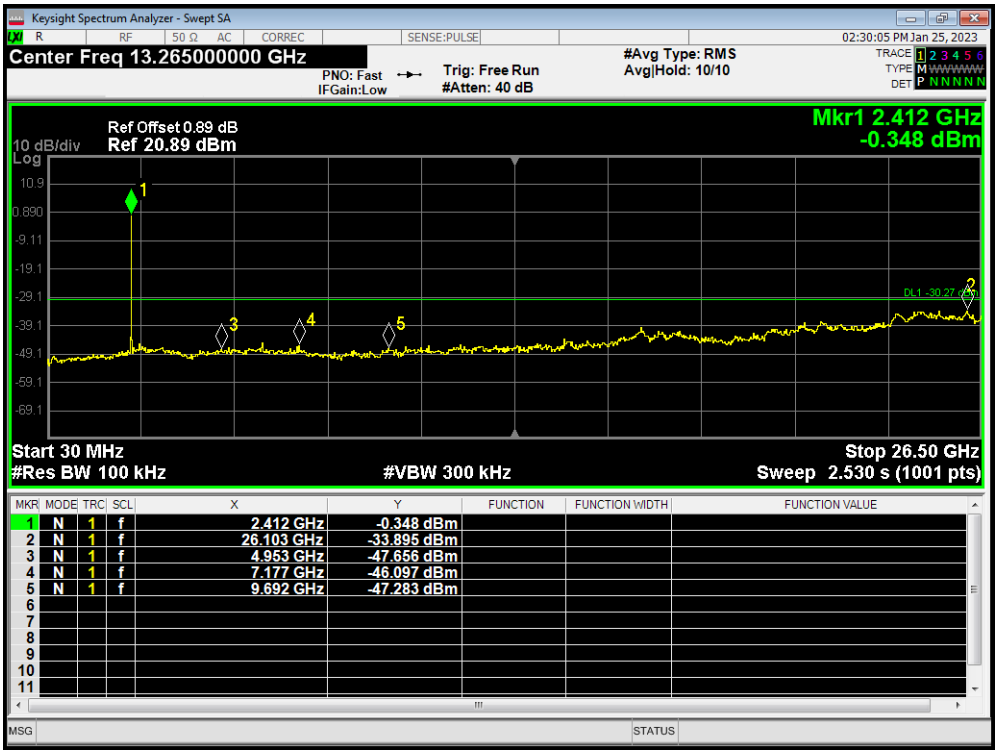

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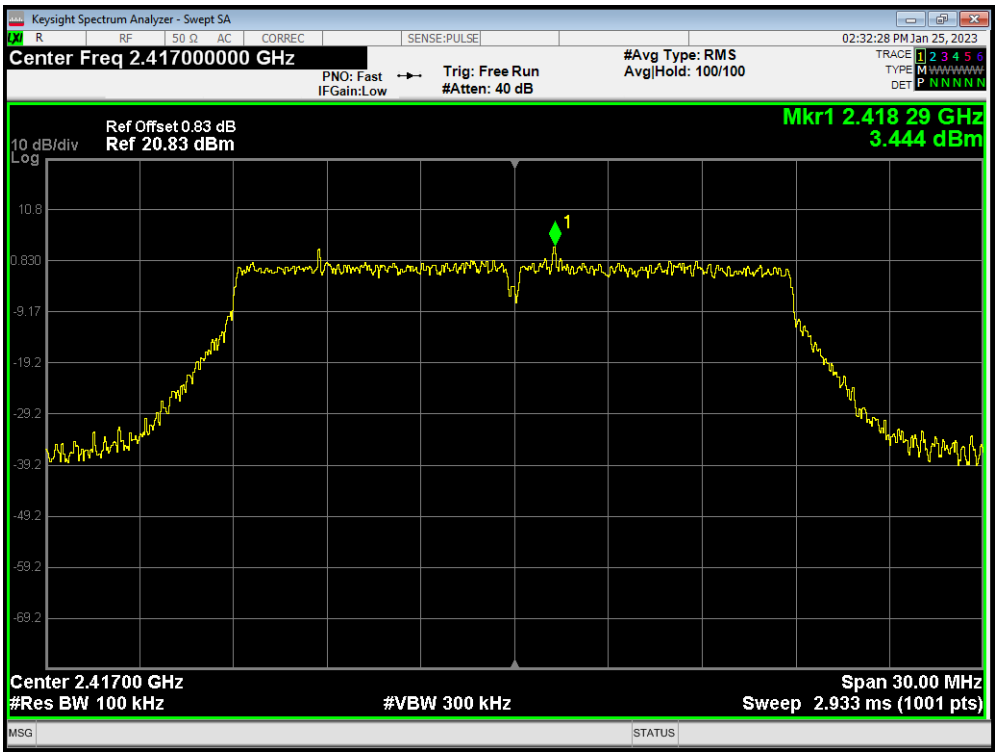

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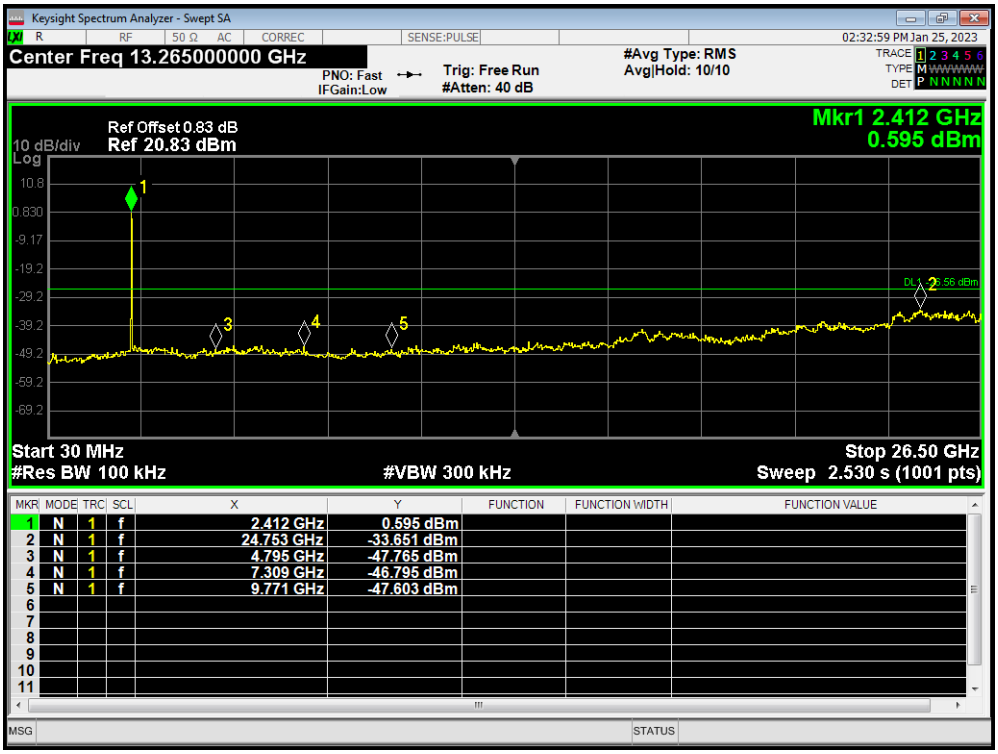

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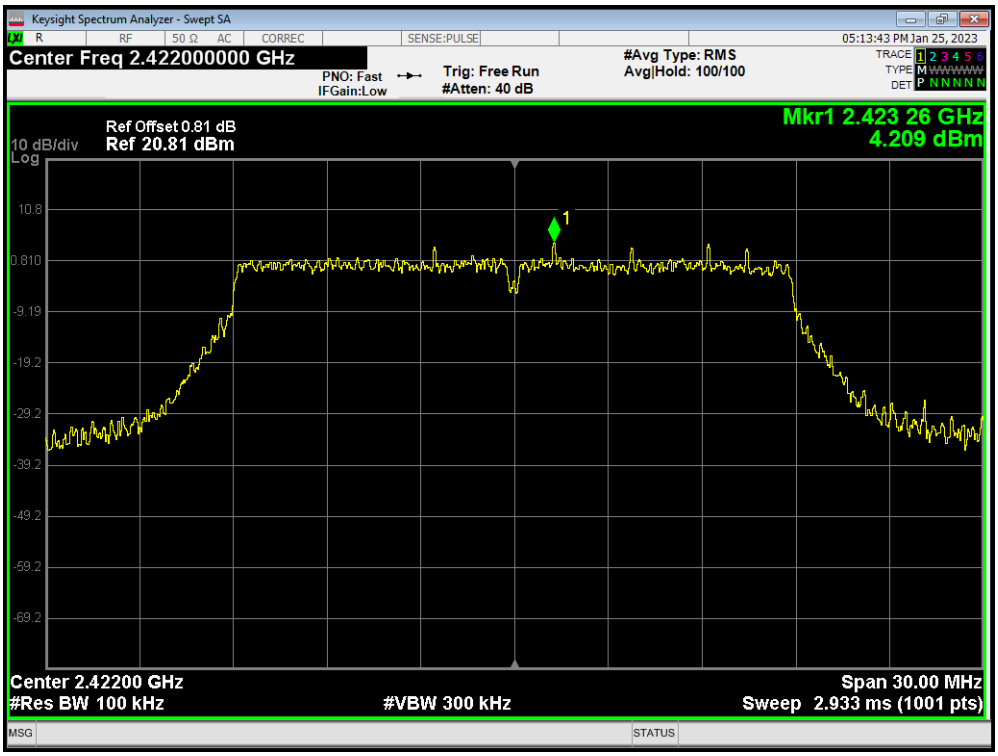

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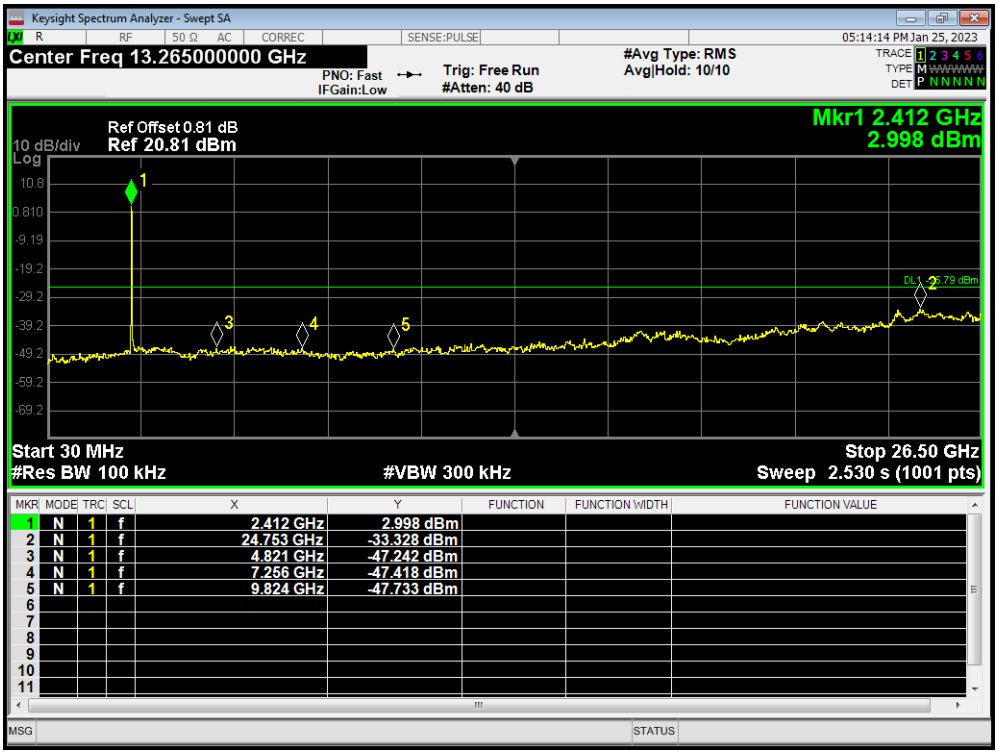

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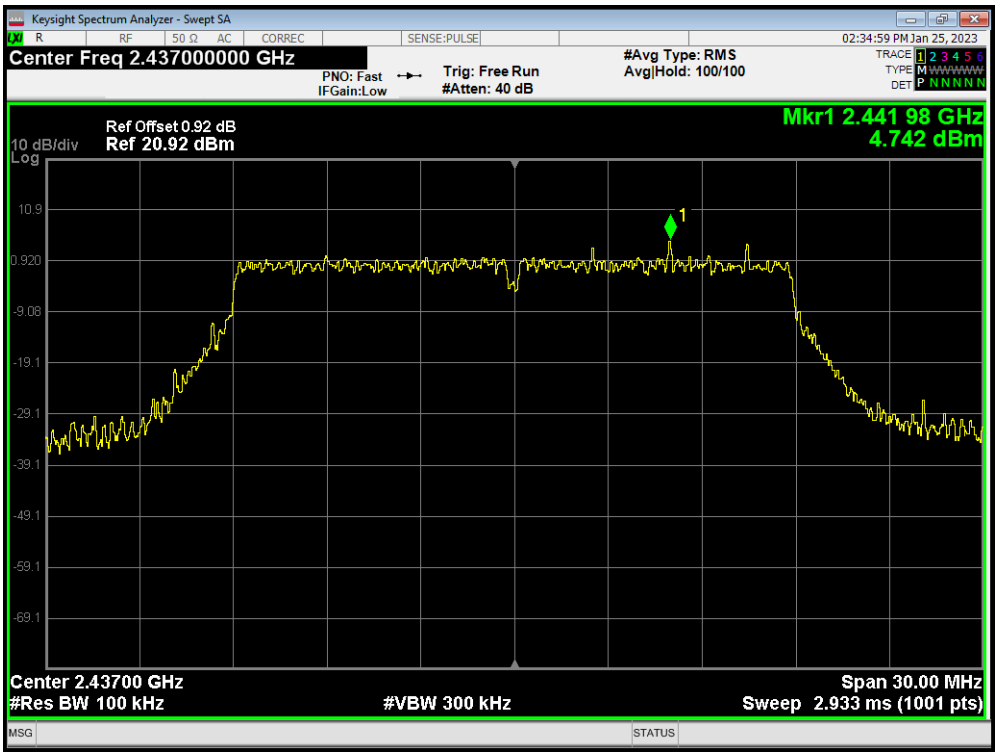
Tx. Spurious 802.11n(HT20) 2437MHz Ref



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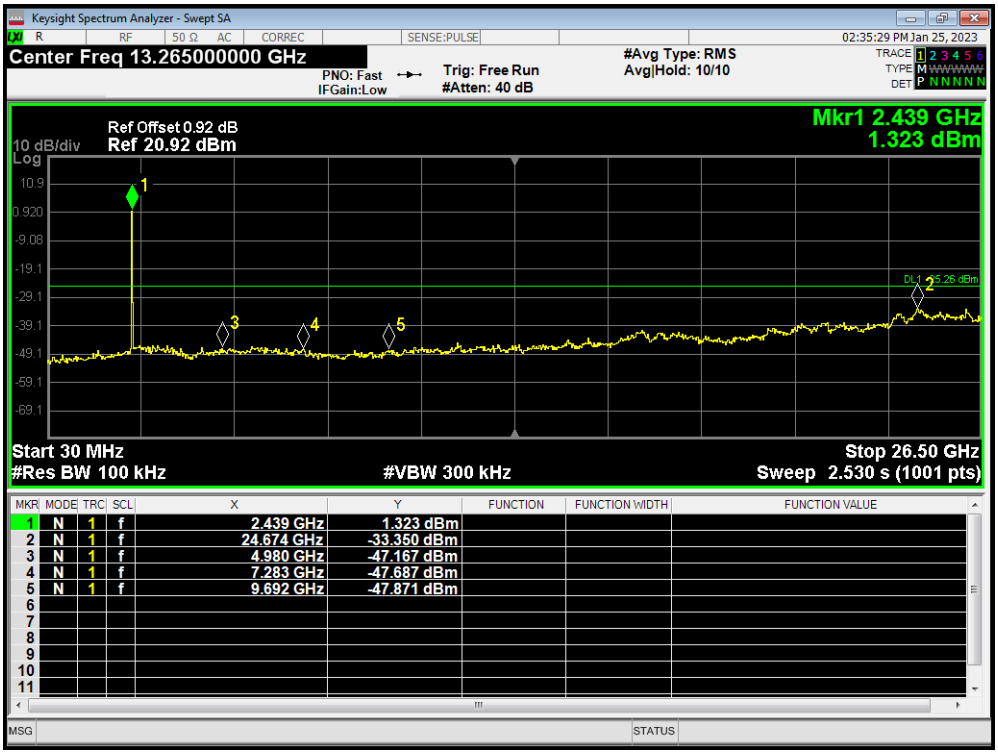

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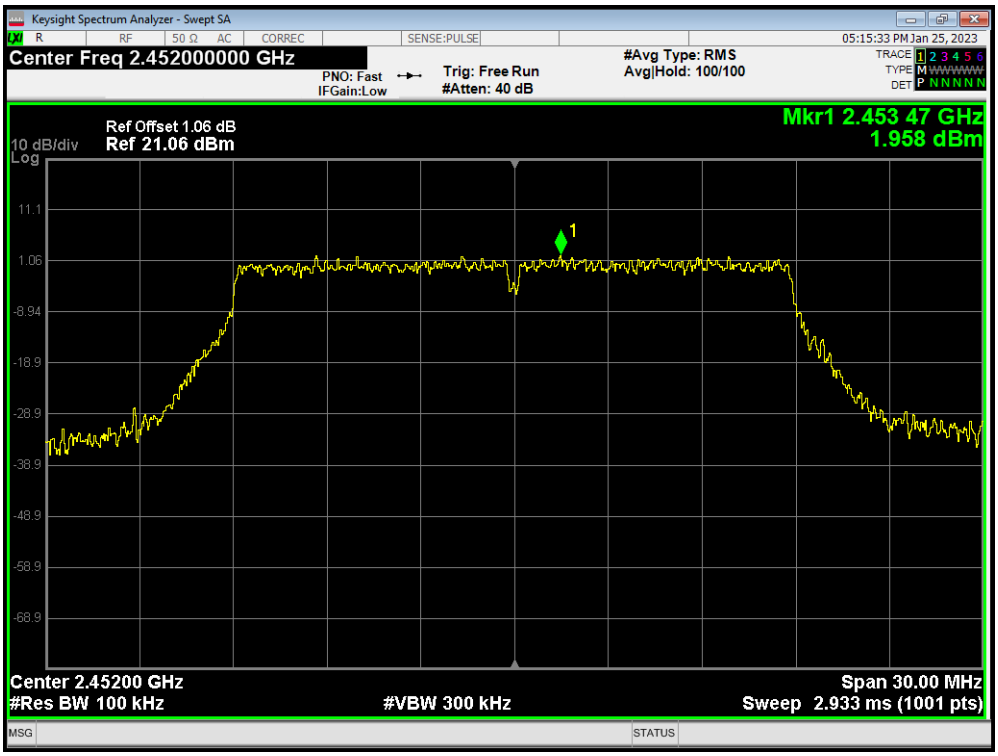

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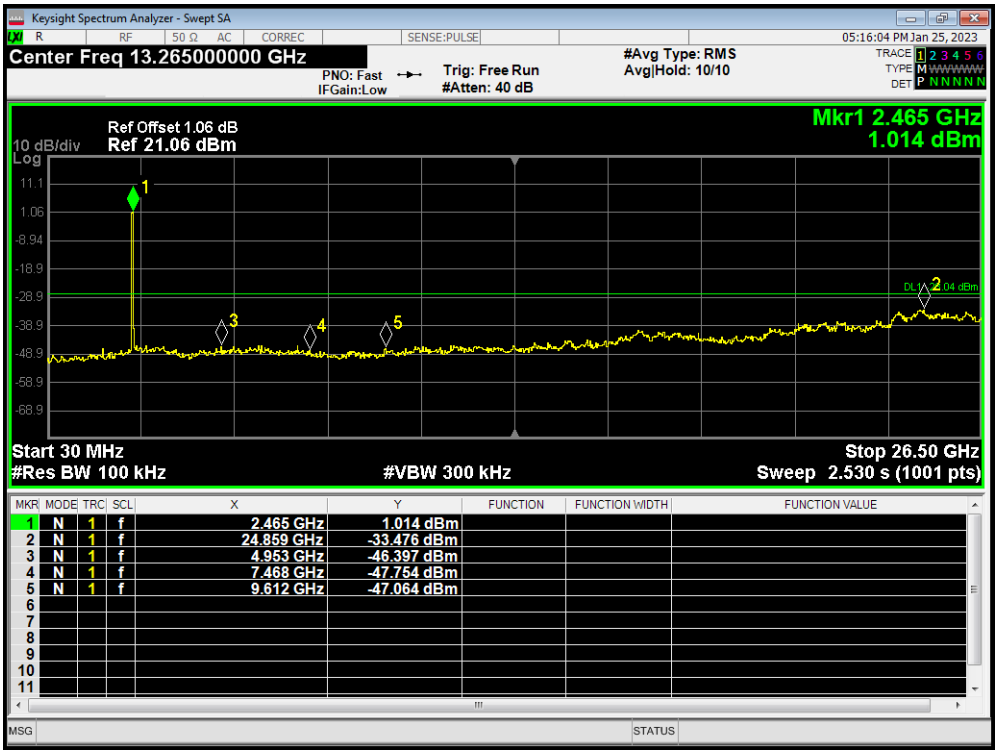

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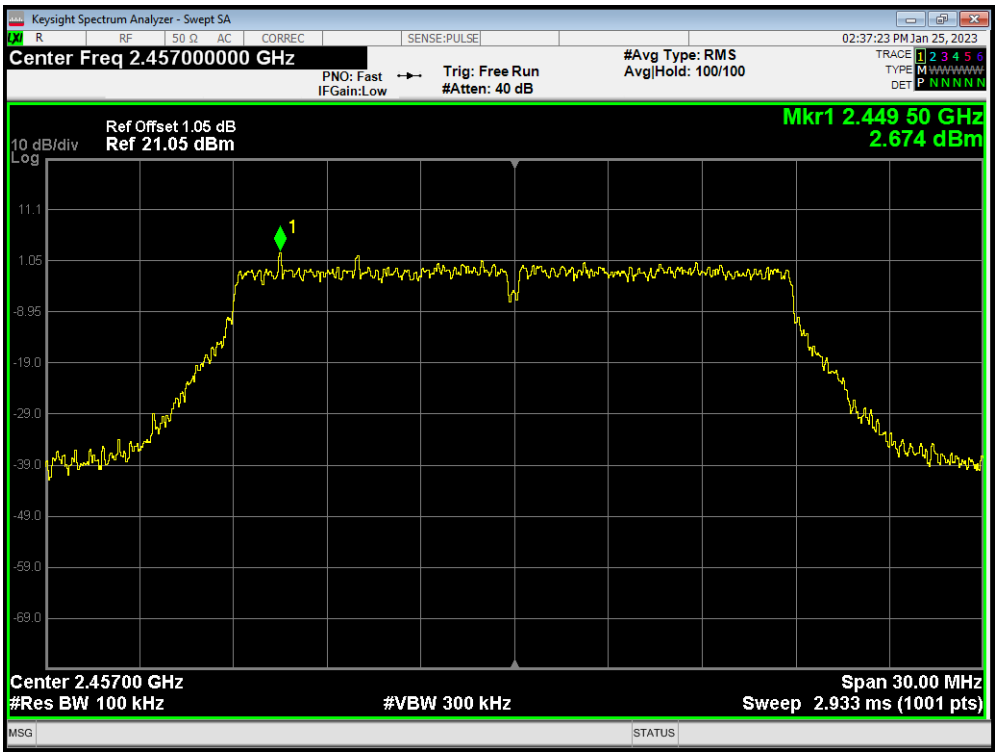
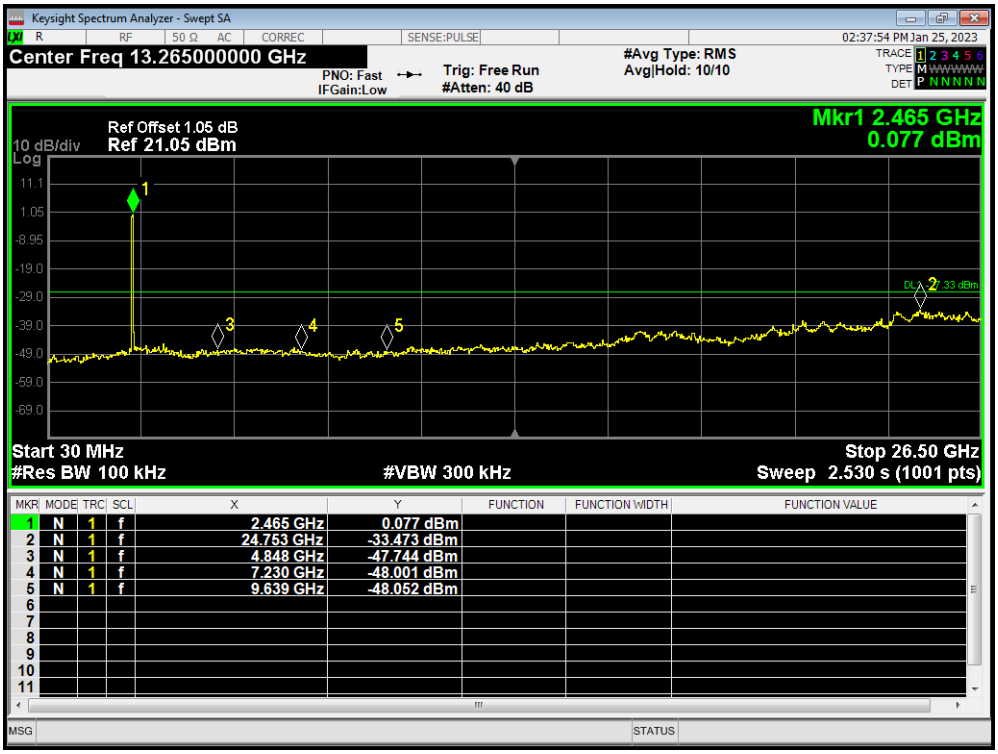
Tx. Spurious 802.11n(HT20) 2457MHz Ref



Tx. Spurious 802.11n(HT20) 2457MHz Emission



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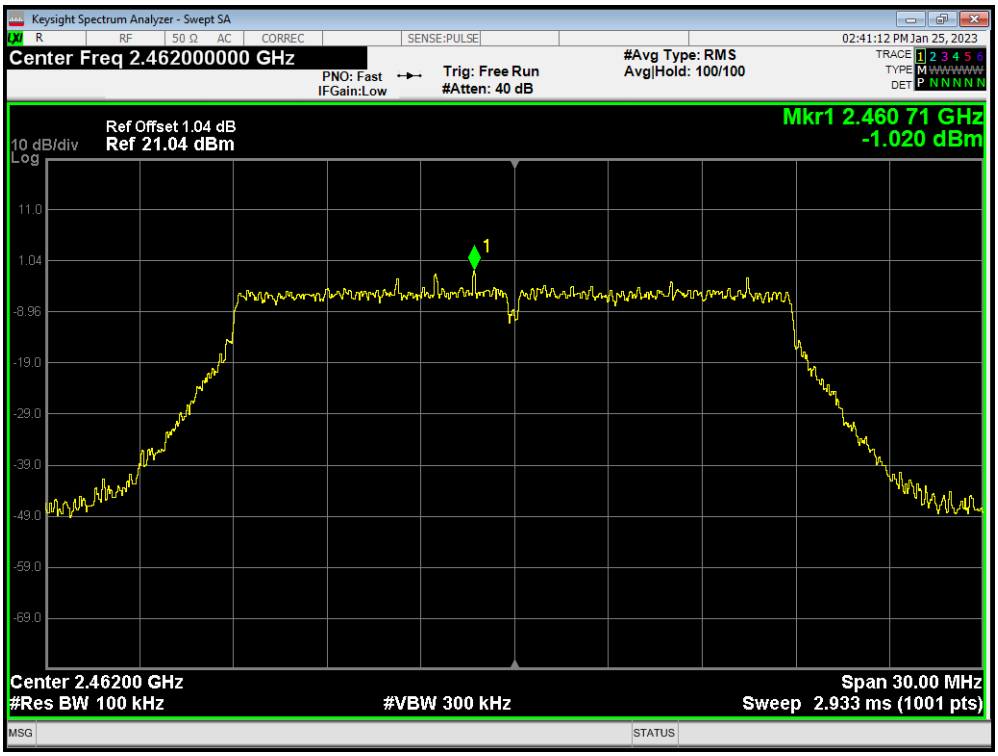
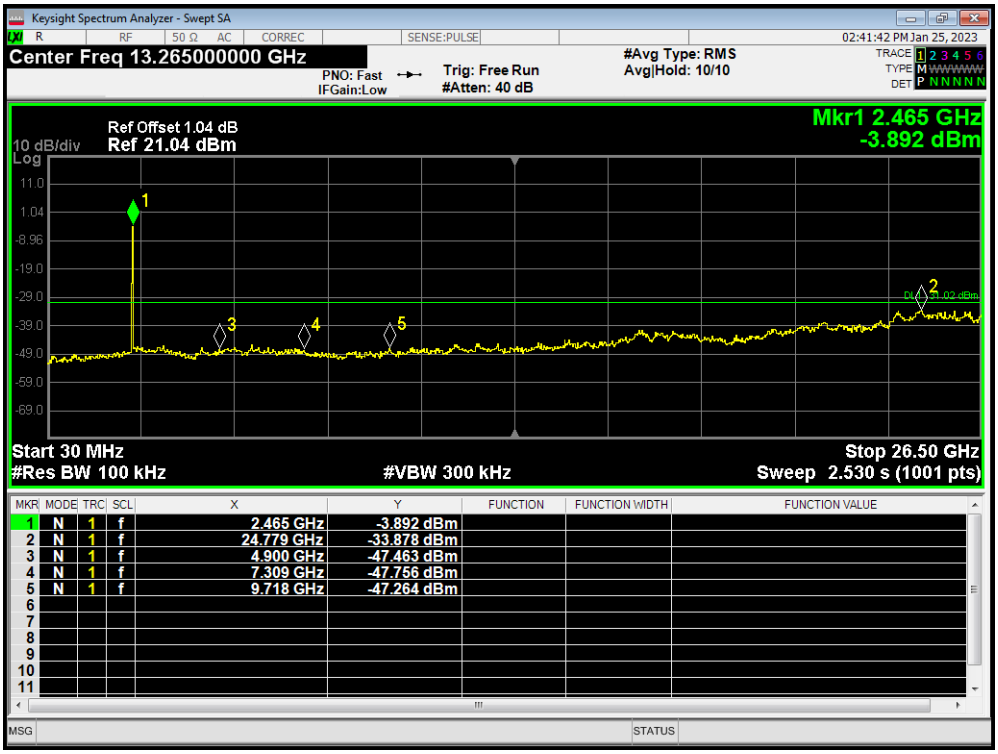
Tx. Spurious 802.11n(HT20) 2462MHz Ref



Tx. Spurious 802.11n(HT20) 2462MHz Emission



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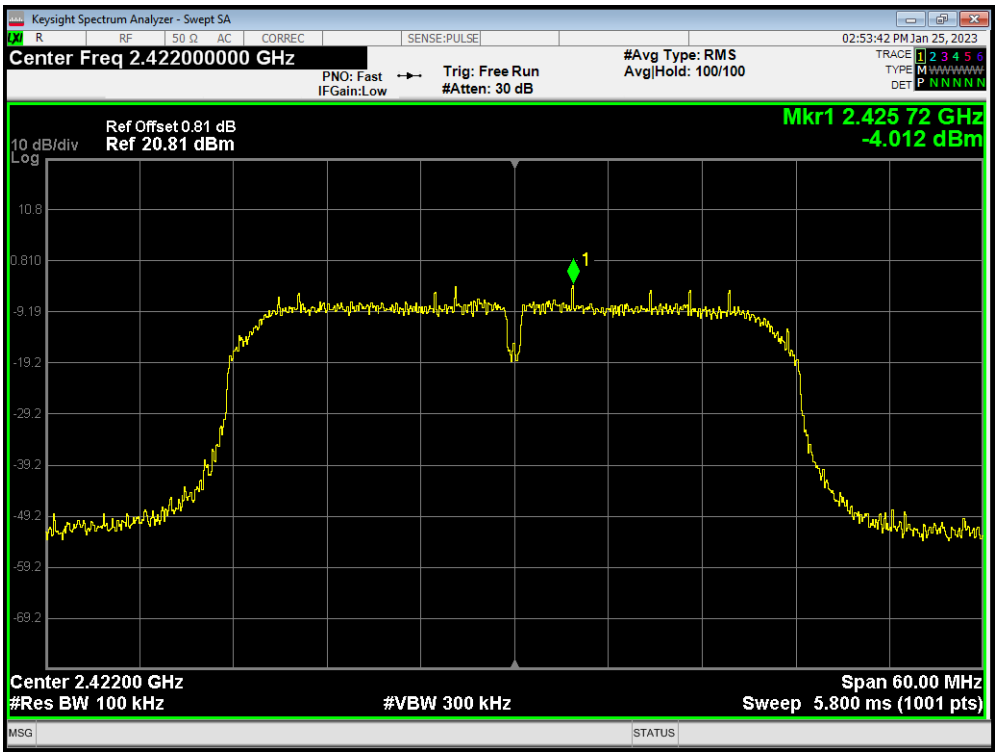
Tx. Spurious 802.11n(HT40) 2422MHz Ref



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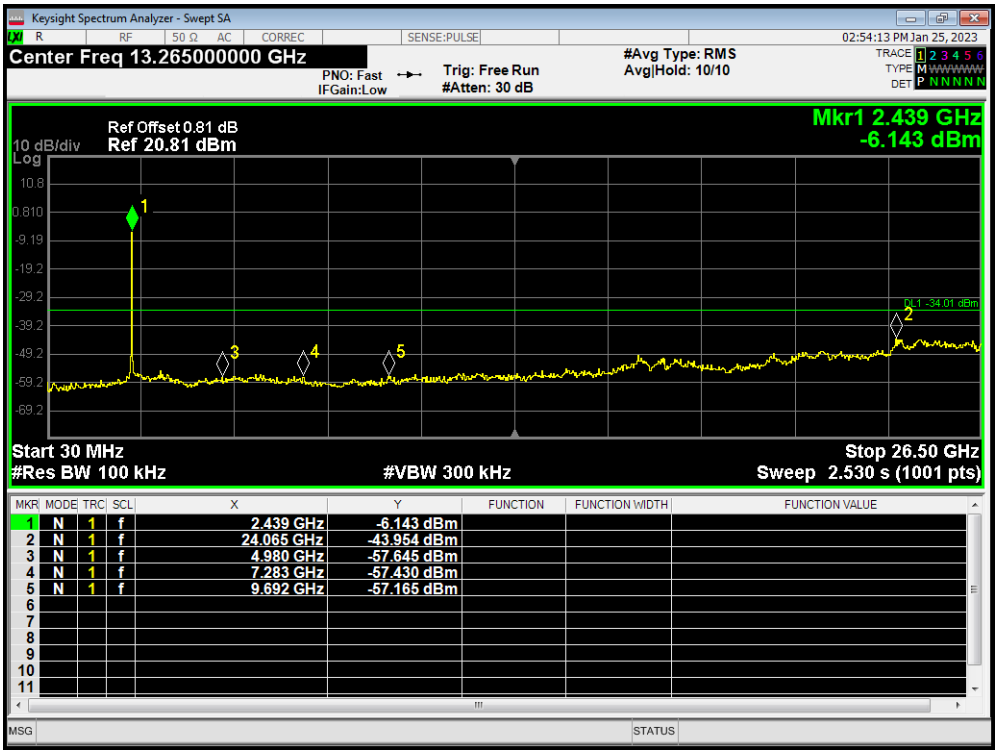

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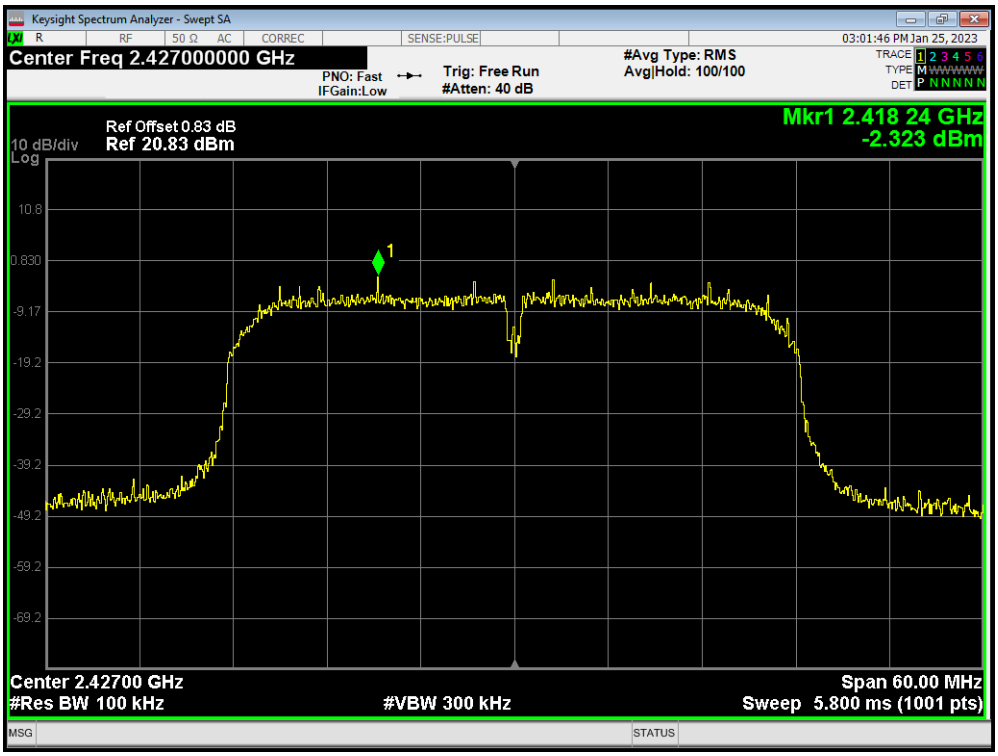
Tx. Spurious 802.11n(HT40) 2427MHz Ref



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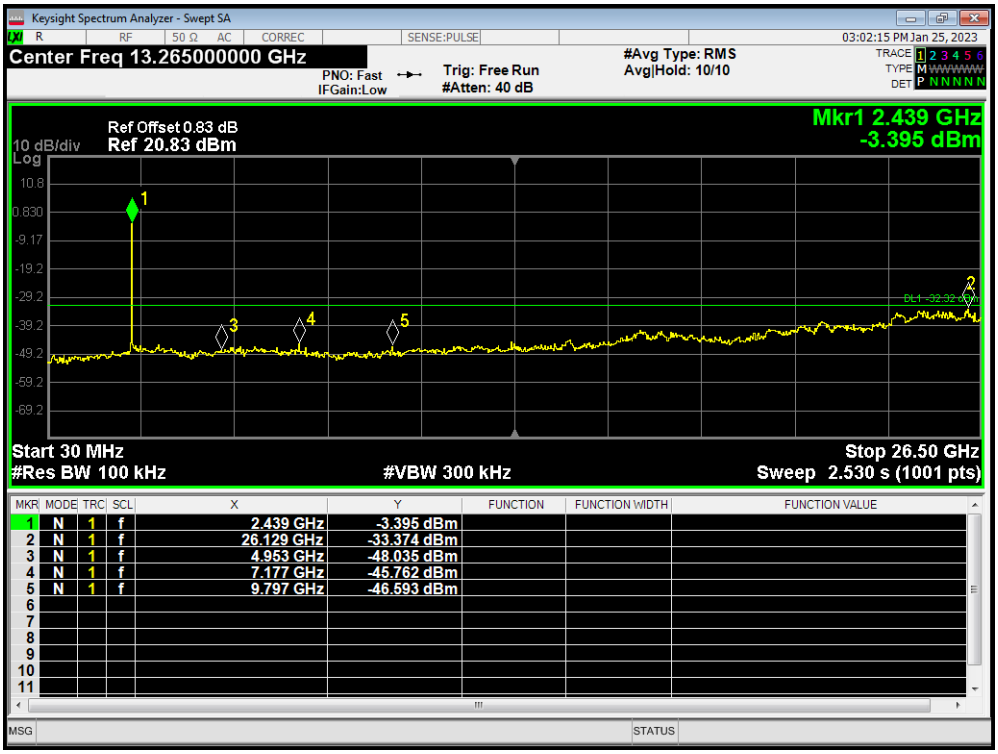

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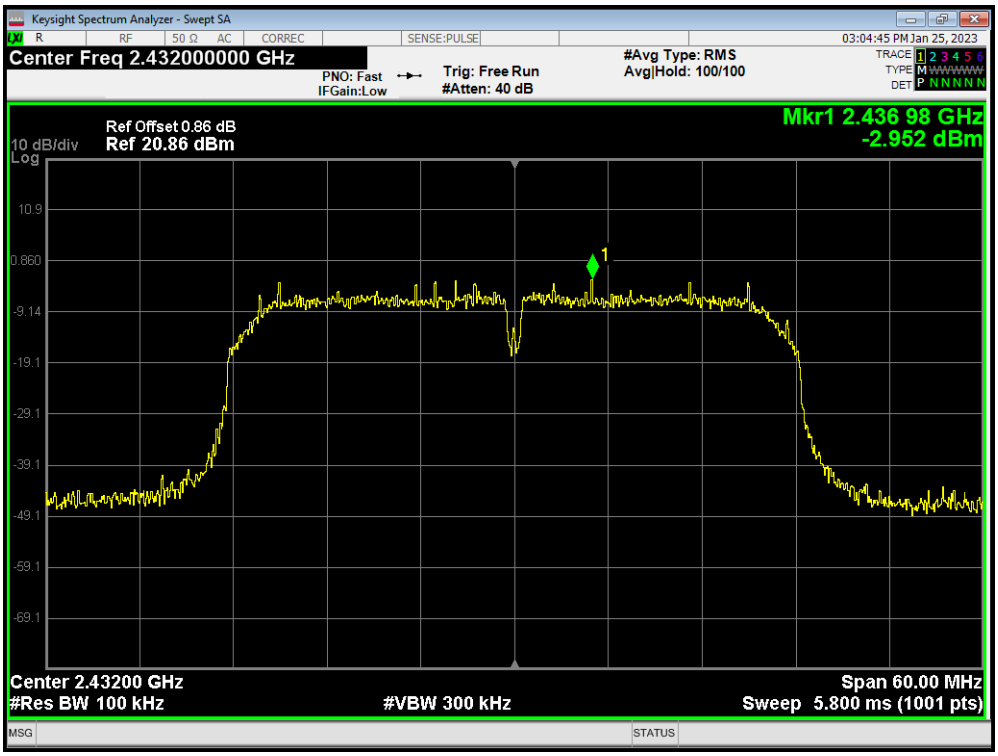
Tx. Spurious 802.11n(HT40) 2432MHz Ref



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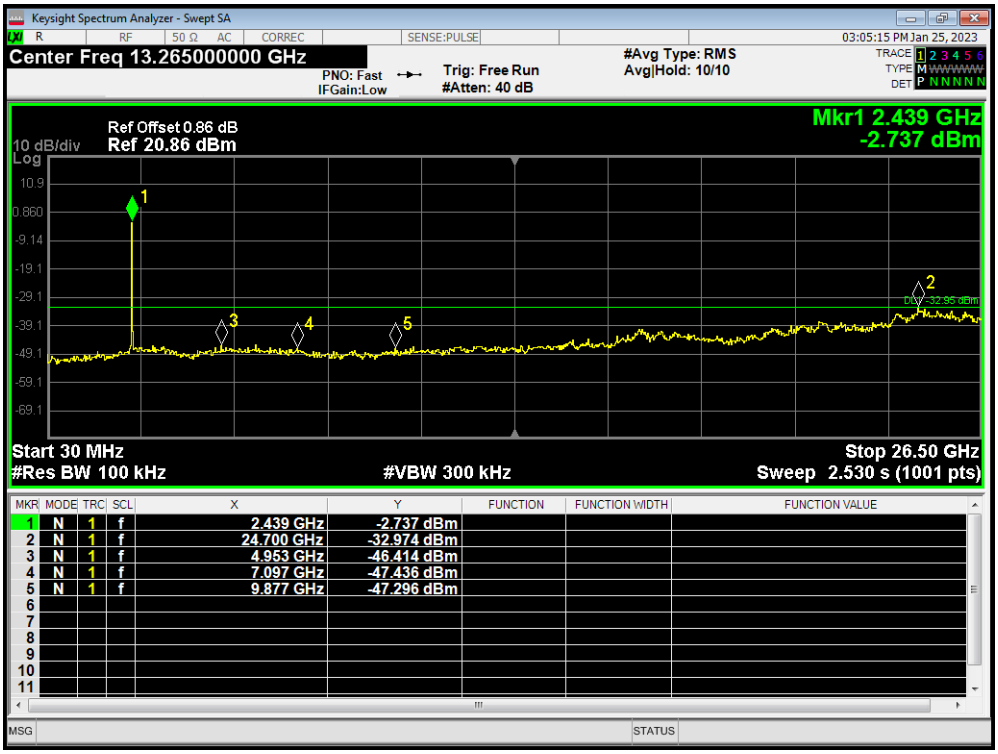

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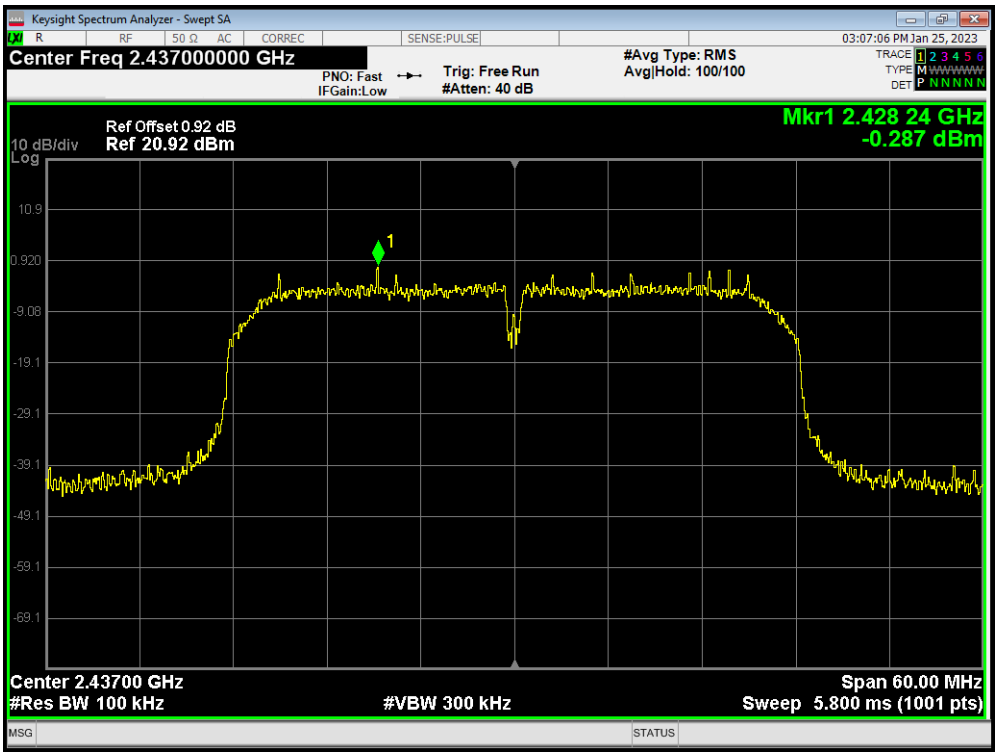
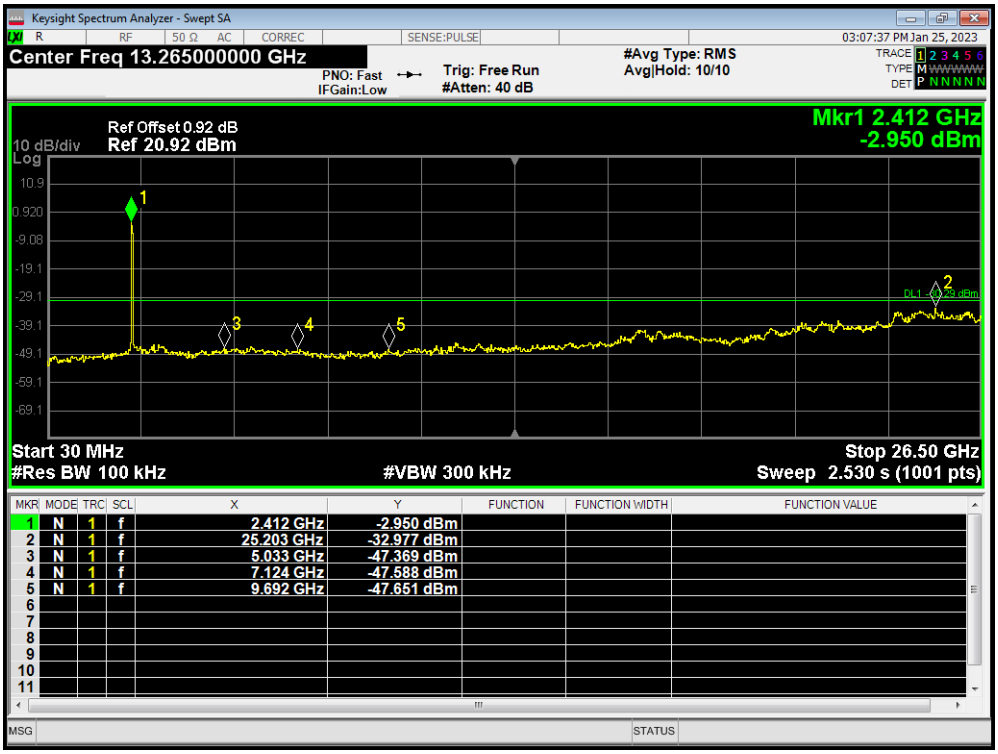


Tx. Spurious 802.11n(HT40) 2437MHz Emission



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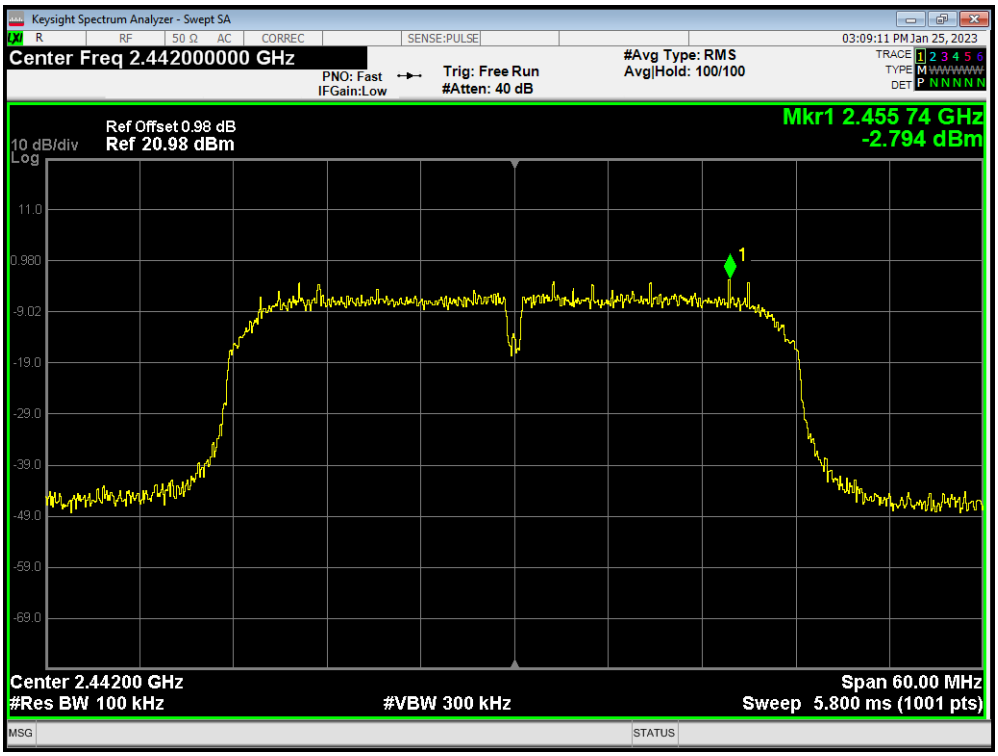
Tx. Spurious 802.11n(HT40) 2442MHz Ref



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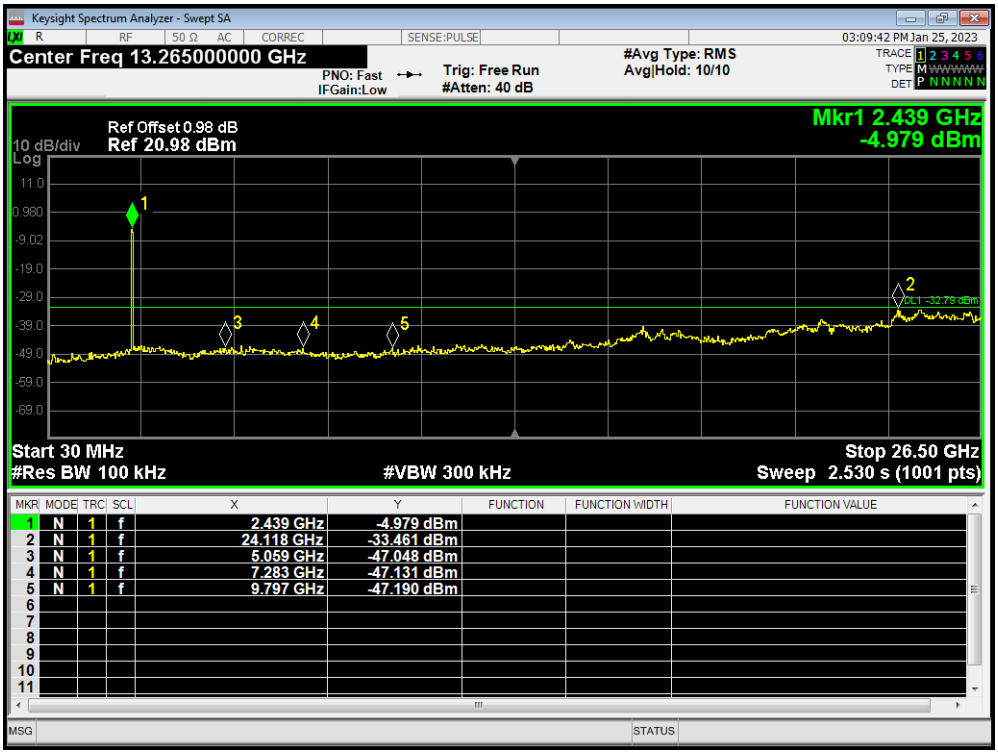

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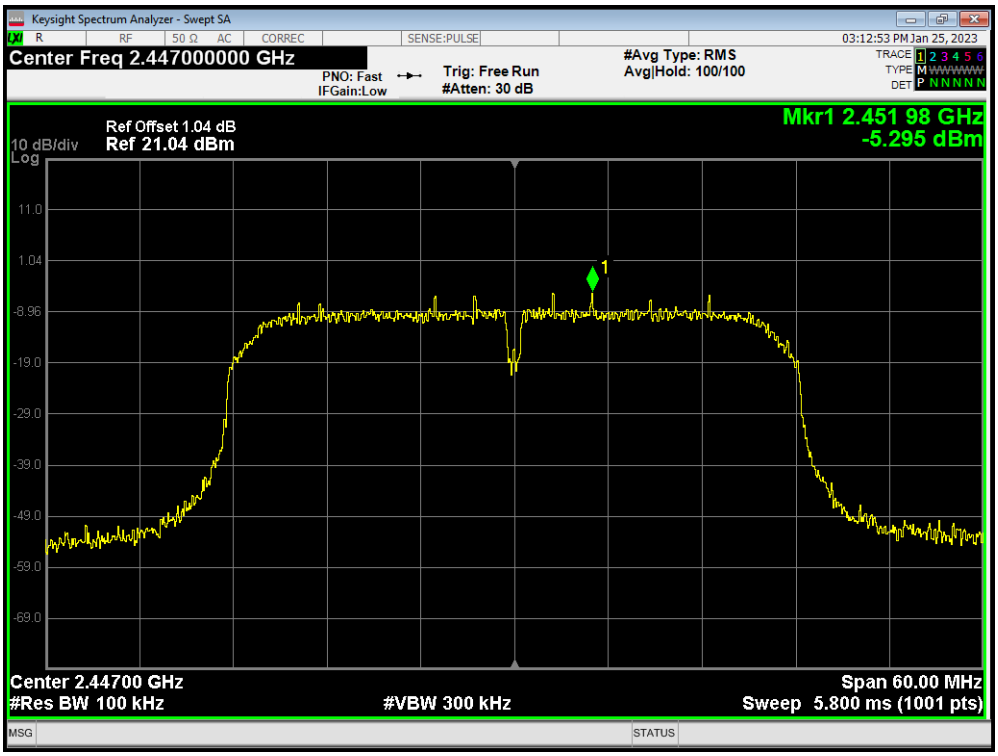
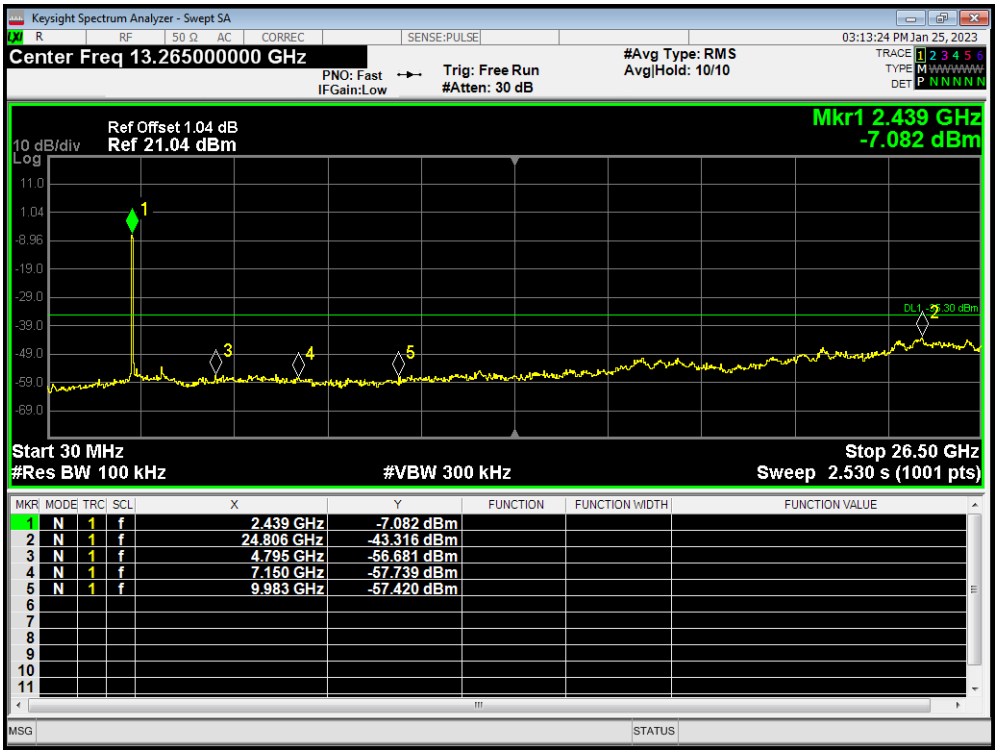
Tx. Spurious 802.11n(HT40) 2447MHz Ref



Tx. Spurious 802.11n(HT40) 2447MHz Emission



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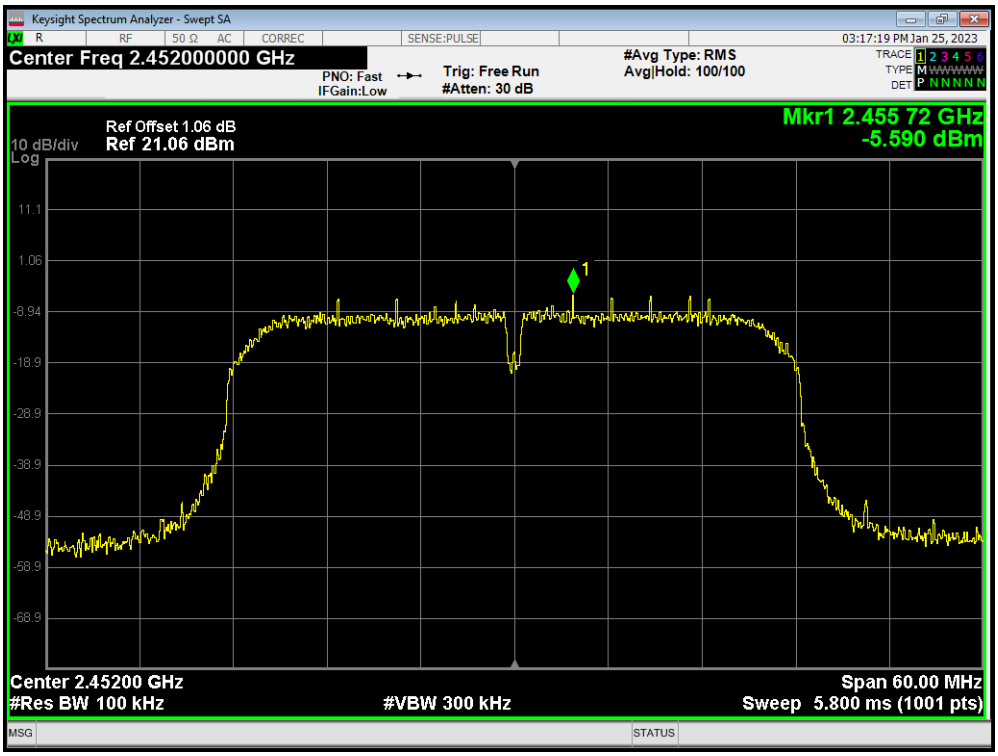
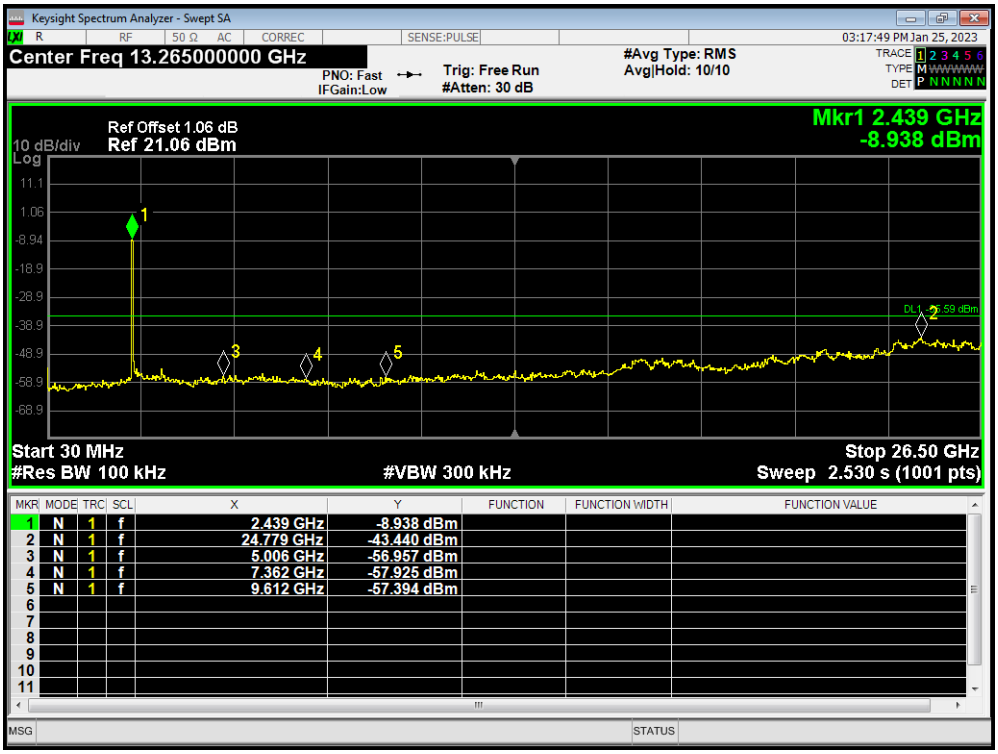
Tx. Spurious 802.11n(HT40) 2452MHz Ref



Tx. Spurious 802.11n(HT40) 2452MHz Emission



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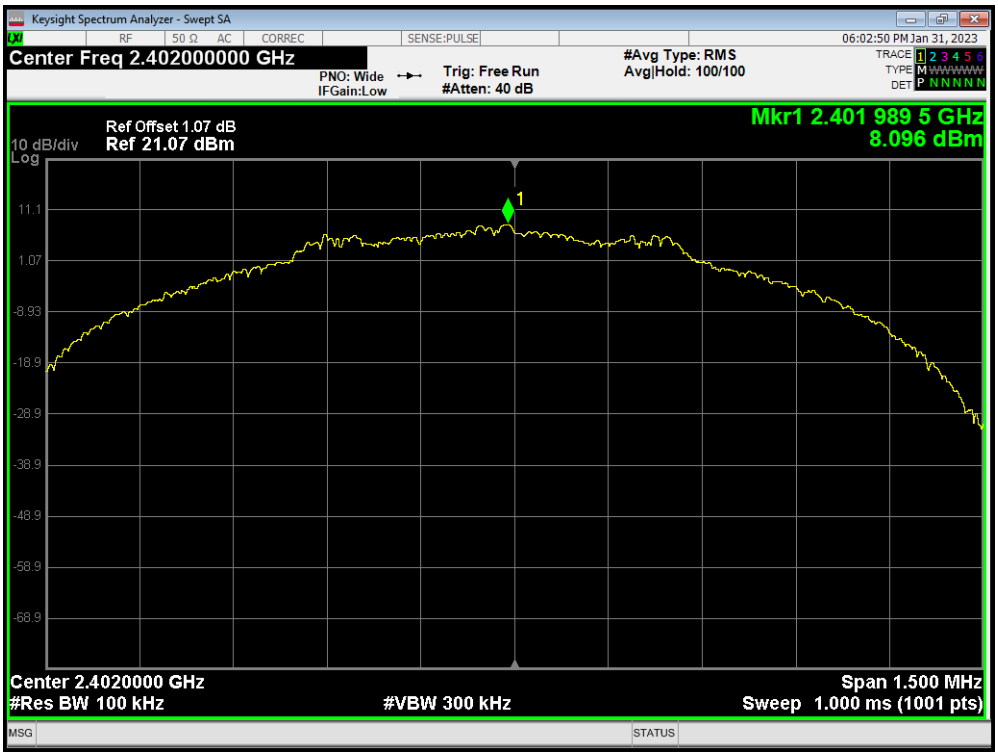
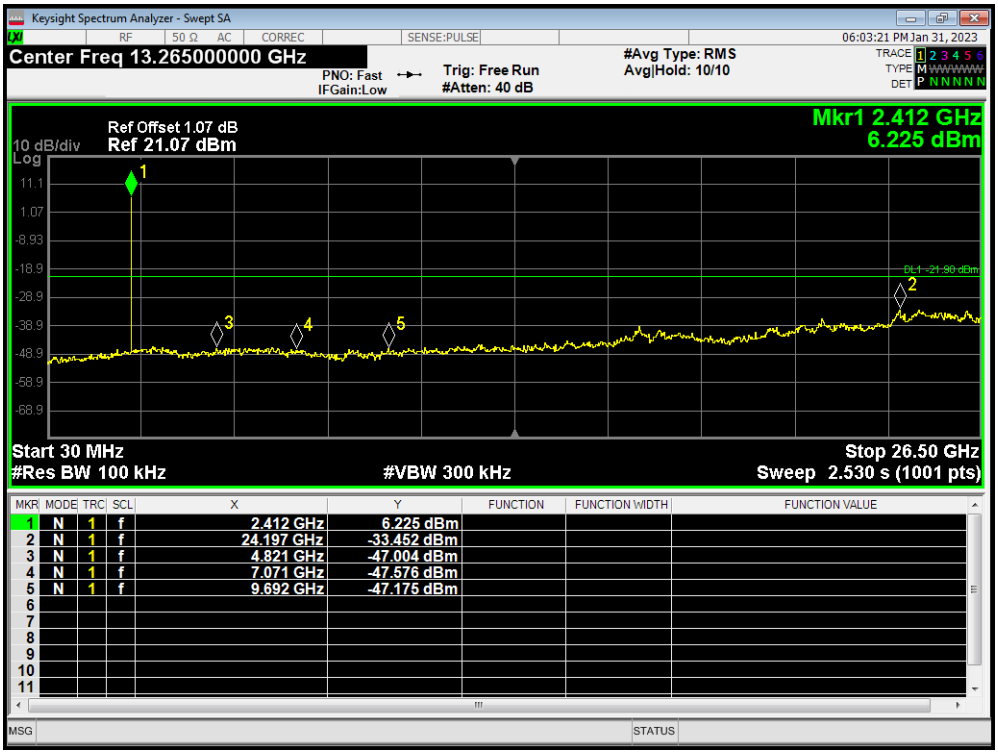
Tx. Spurious BLE (1M) 2402MHz Ref



Tx. Spurious BLE (1M) 2402MHz Emission



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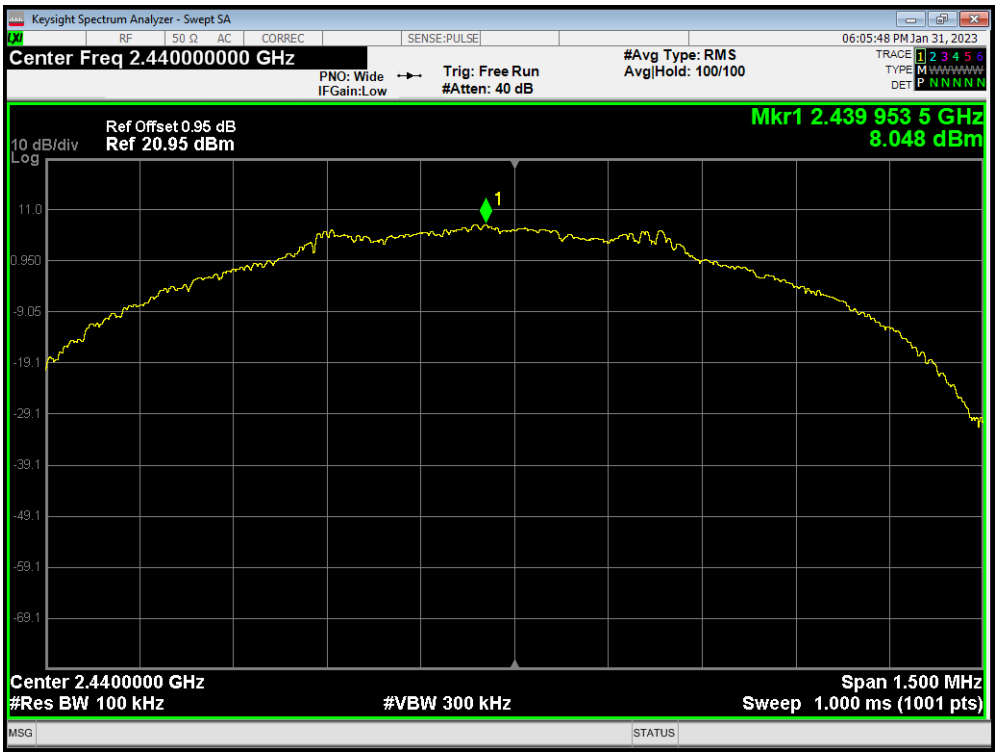
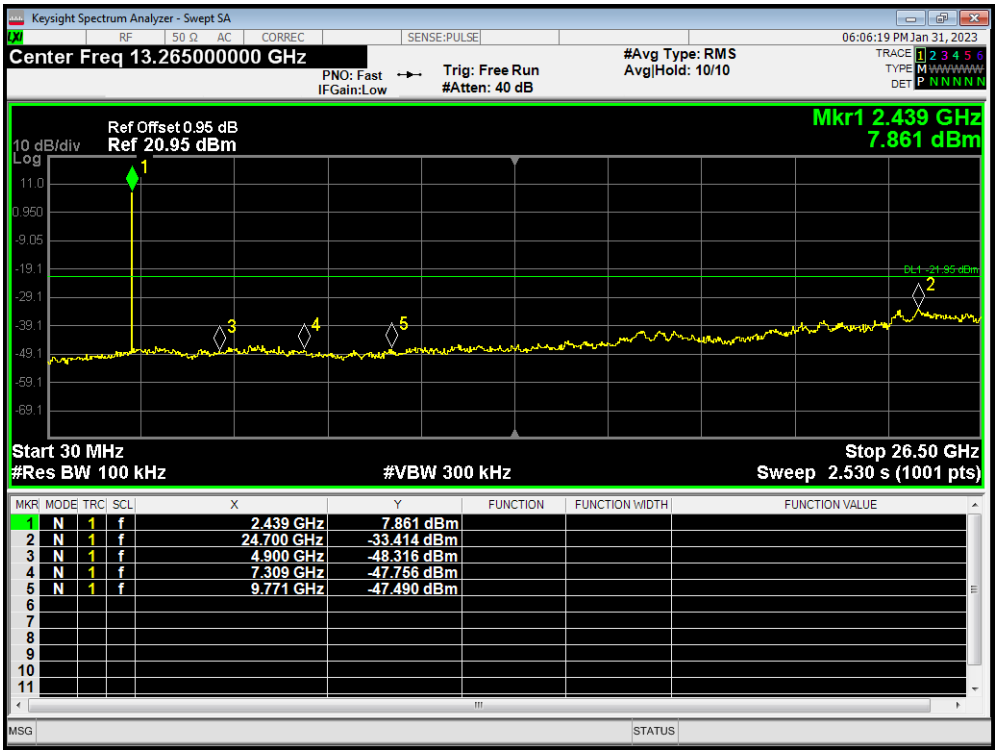
Tx. Spurious BLE (1M) 2440MHz Ref



Tx. Spurious BLE (1M) 2440MHz Emission



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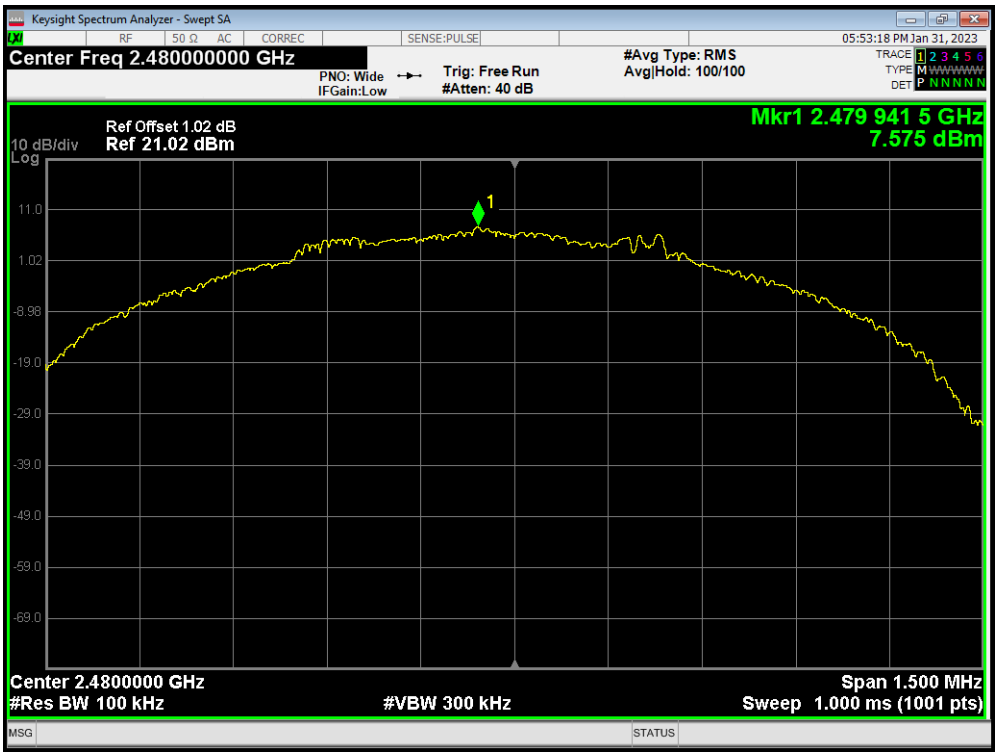
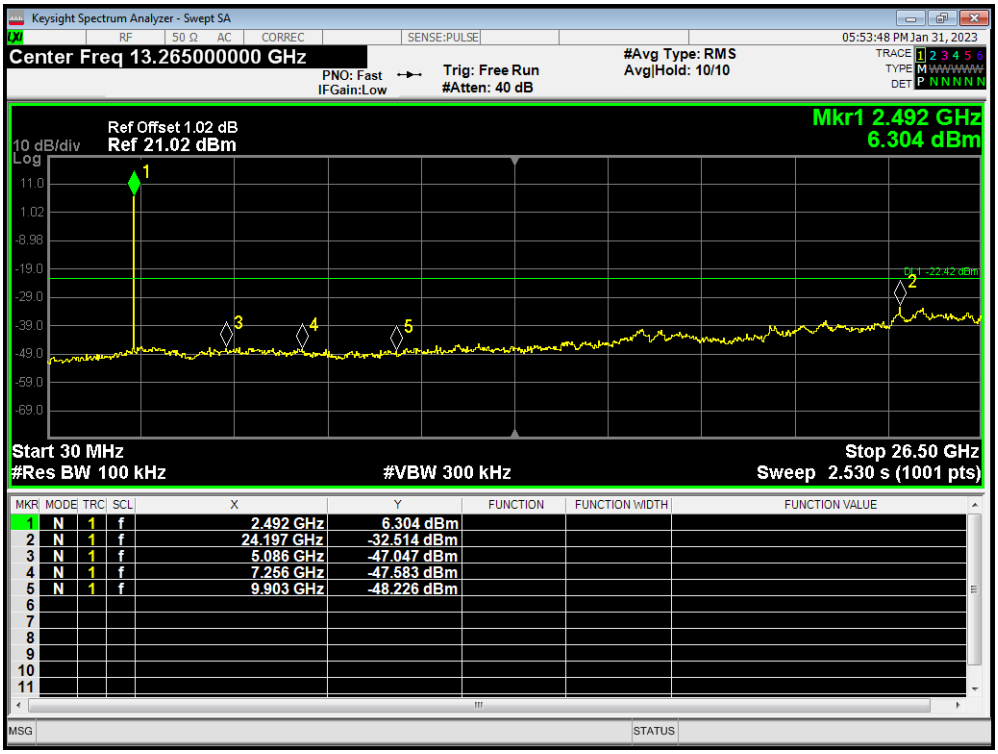
Tx. Spurious BLE (1M) 2480MHz Ref



Tx. Spurious BLE (1M) 2480MHz Emission



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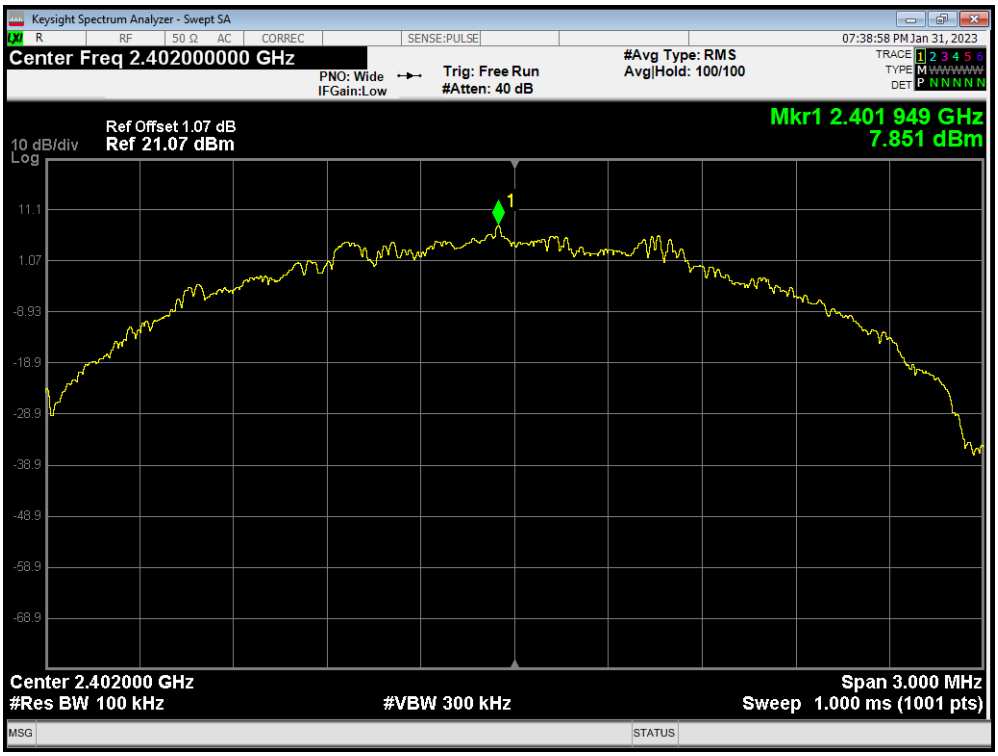
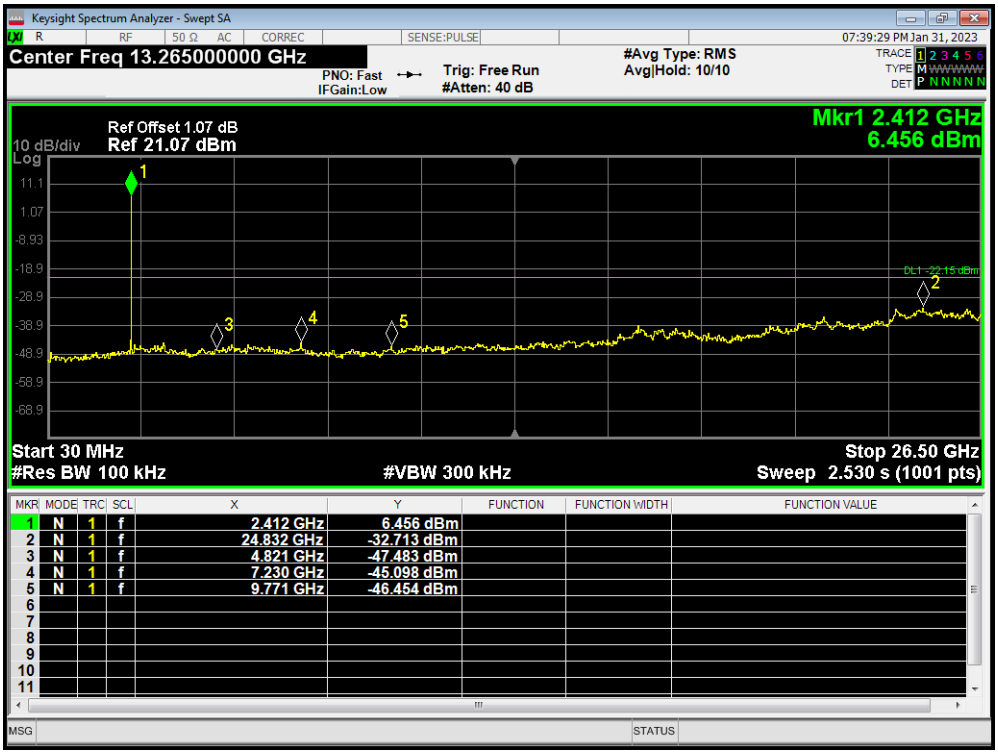
Tx. Spurious BLE (2M) 2402MHz Ref



Tx. Spurious BLE (2M) 2402MHz Emission



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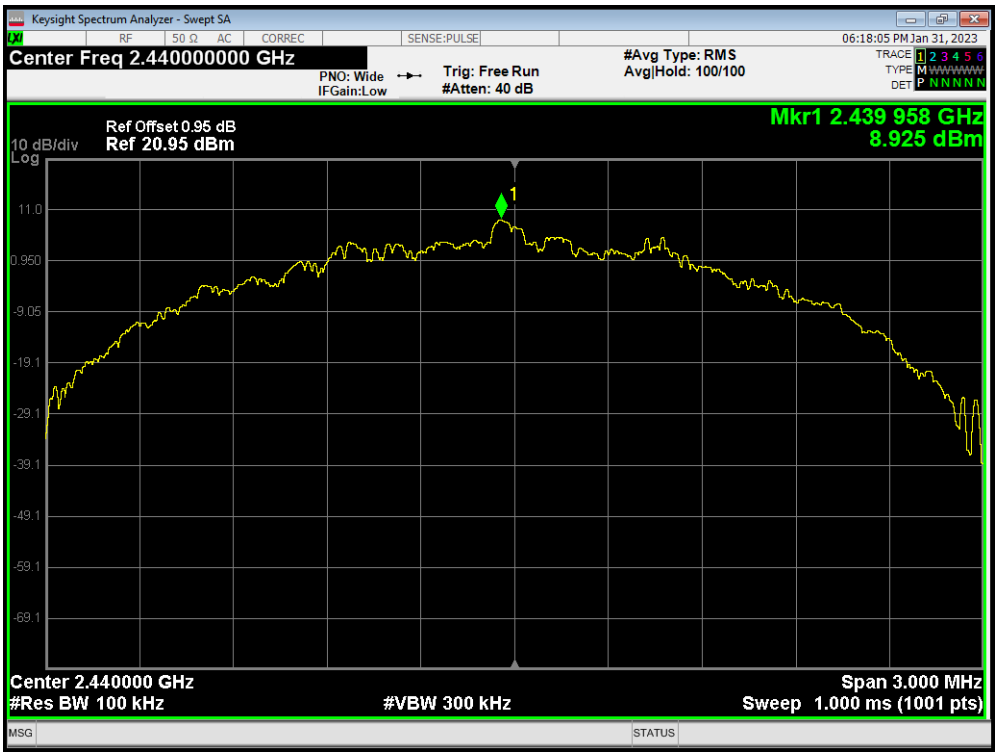
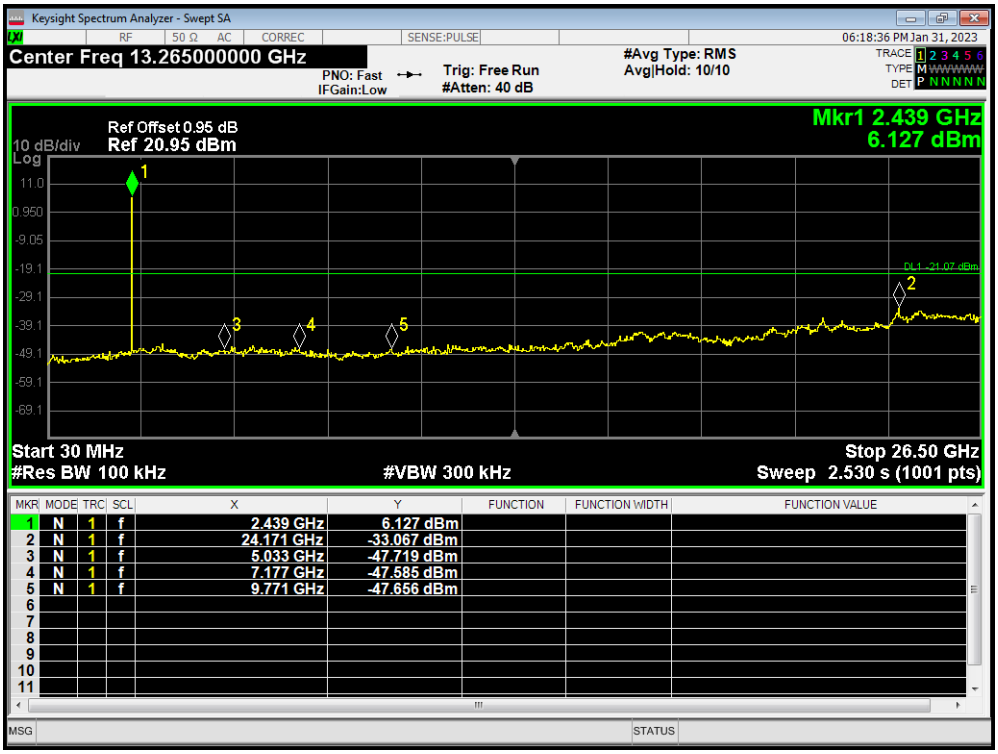
Tx. Spurious BLE (2M) 2440MHz Ref



Tx. Spurious BLE (2M) 2440MHz Emission



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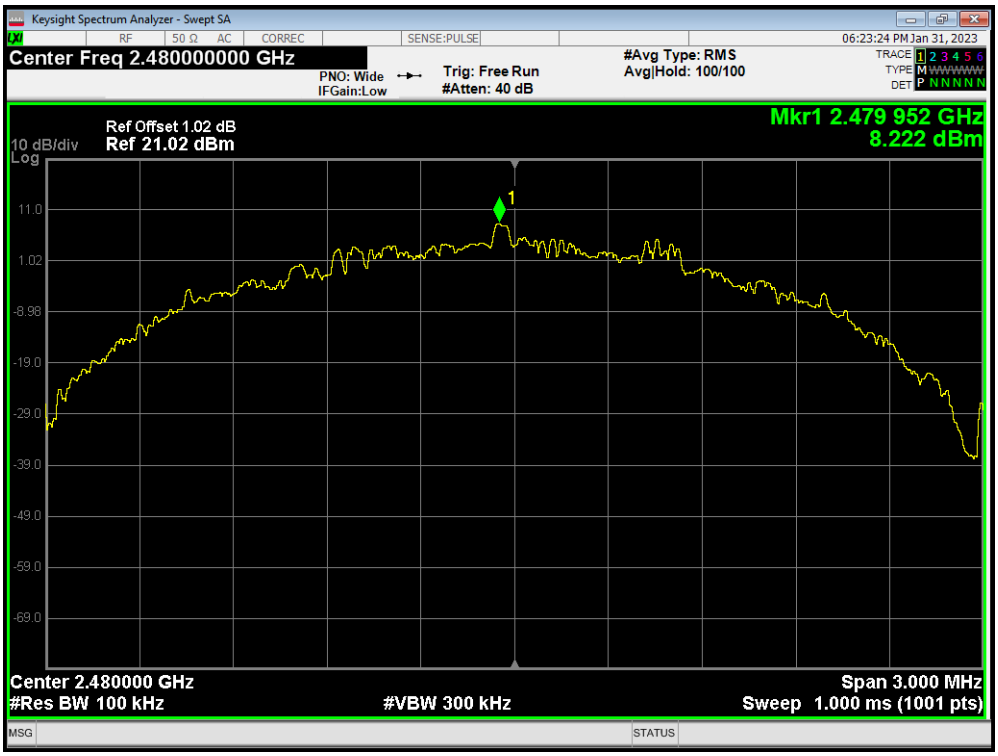
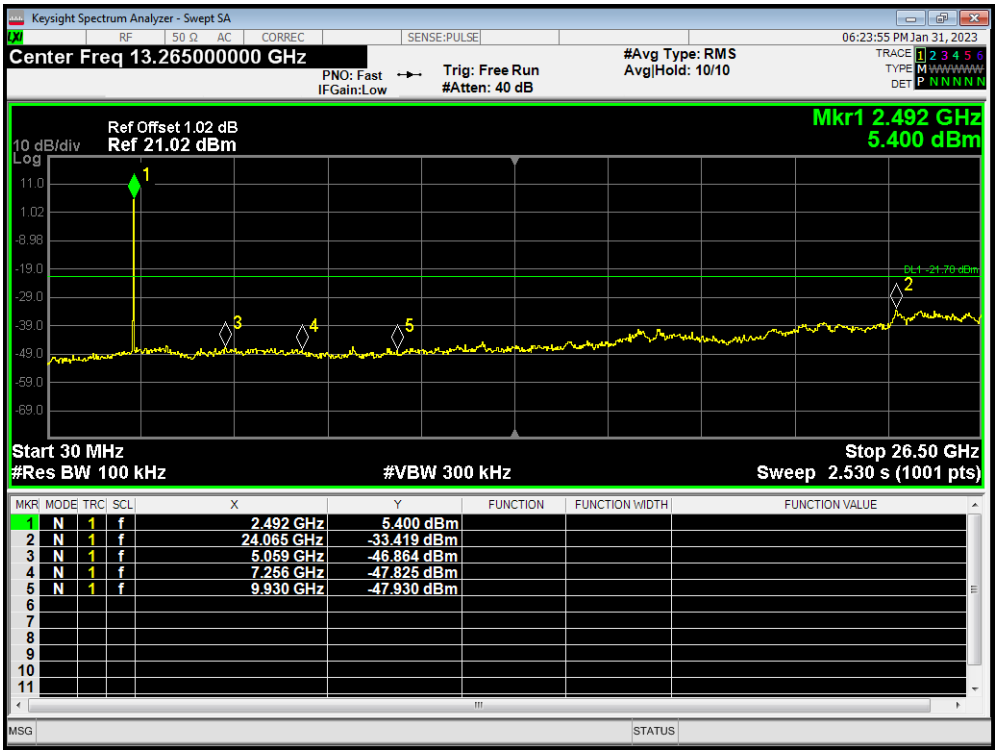
Tx. Spurious BLE (2M) 2480MHz Ref



Tx. Spurious BLE (2M) 2480MHz Emission



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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

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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.

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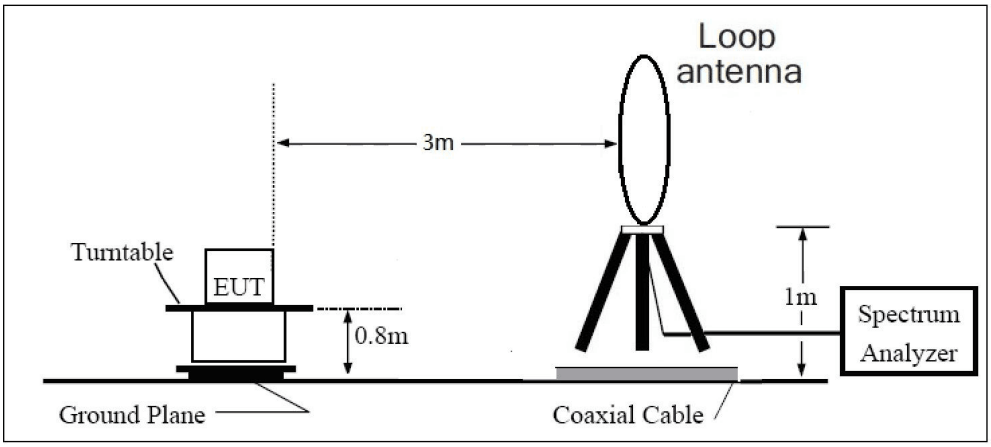
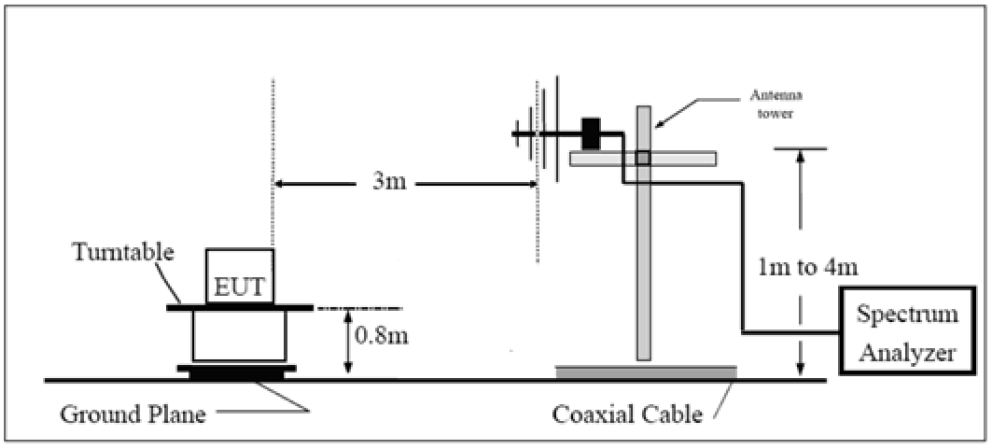
Test Setup

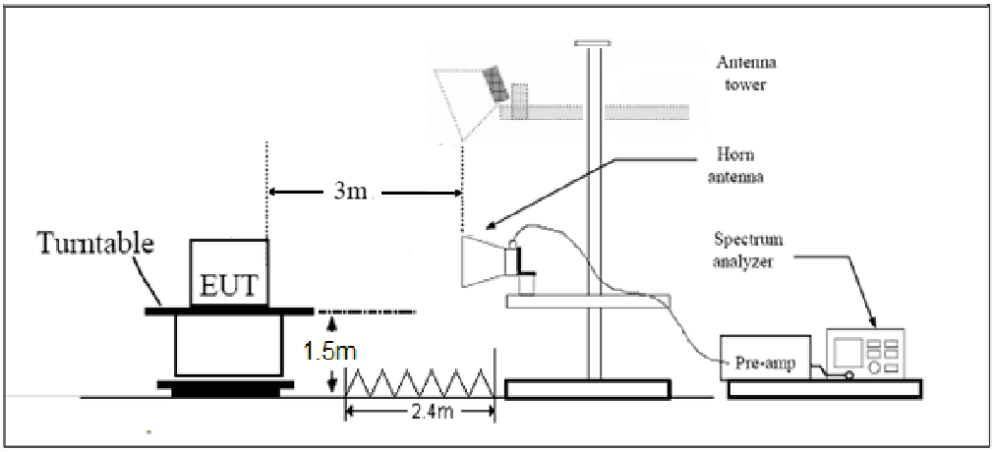
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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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(μV/m)	Field strength(dBμV/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 dBμV/m

Average Limit=54 dBμV/m

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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
[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	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

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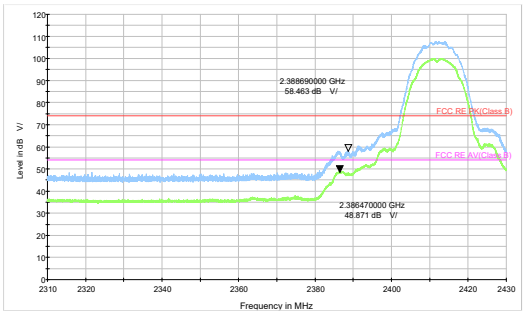
Test Results:

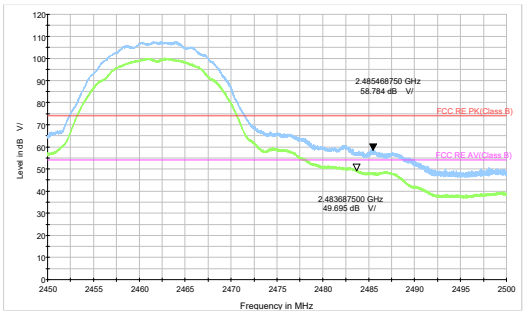
The following graphs display the maximum values of horizontal and vertical by software.

Blue trace uses the peak detection, Green trace uses the average detection.

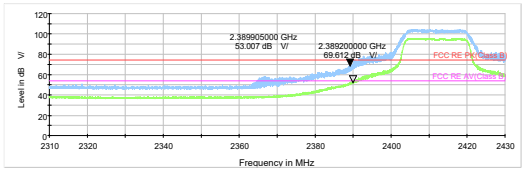
A symbol (dB V/) in the test plot below means (dBμV/m)



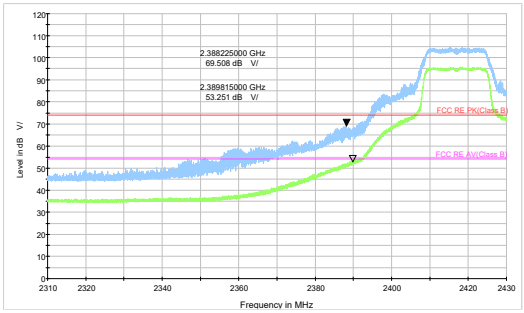
802.11b-Channel 1 Peak + Average



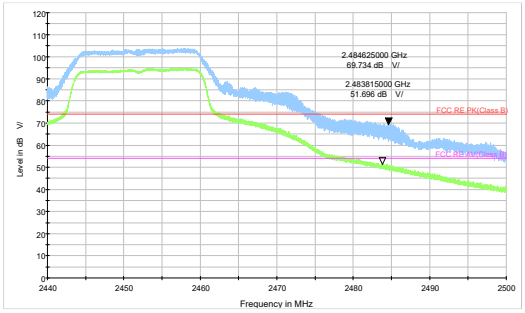
802.11b-Channel 11 Peak + Average



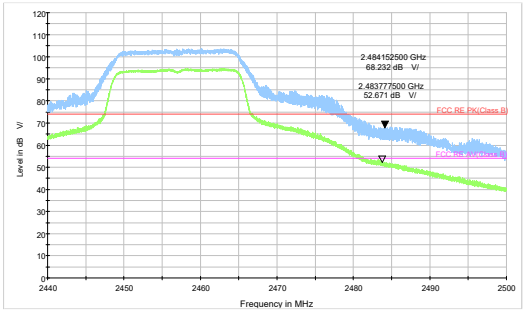
802.11g-Channel 1 Peak + Average



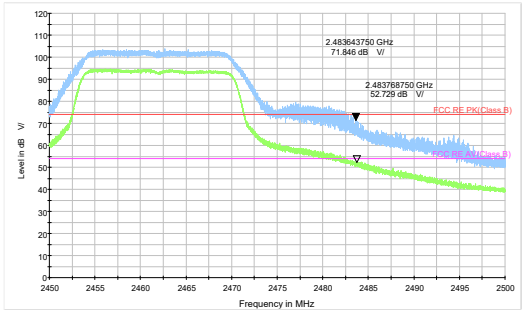
802.11g-Channel 2 Peak + Average



802.11g-Channel 9 Peak + Average



802.11g-Channel 10 Peak + Average



802.11g-Channel 11 Peak + Average

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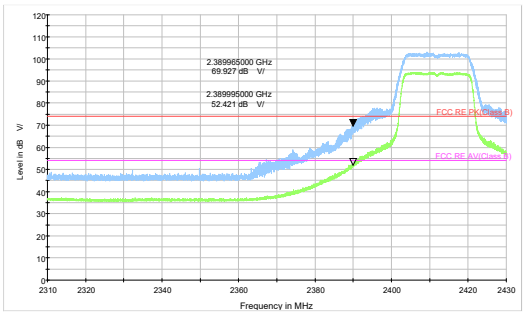
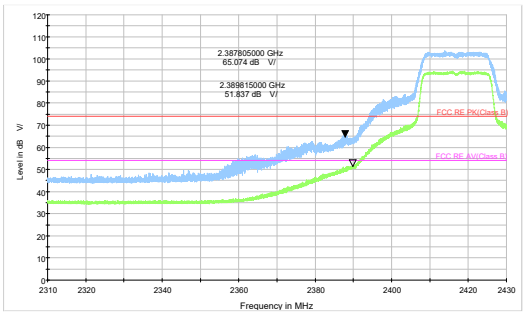
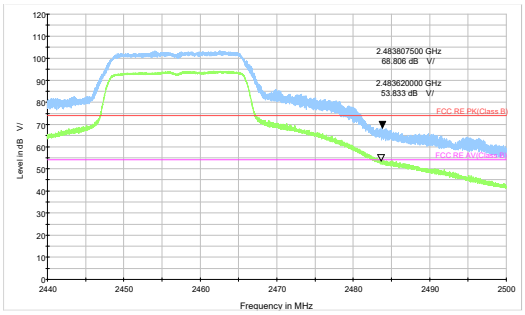


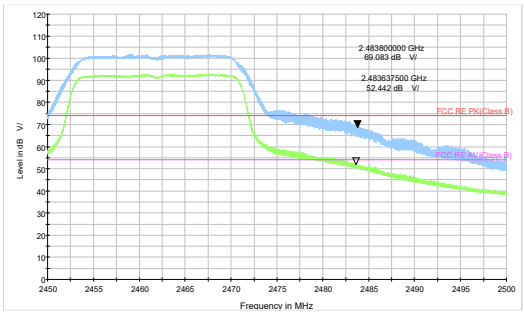
802.11n HT20 -Channel 1 Peak + Average



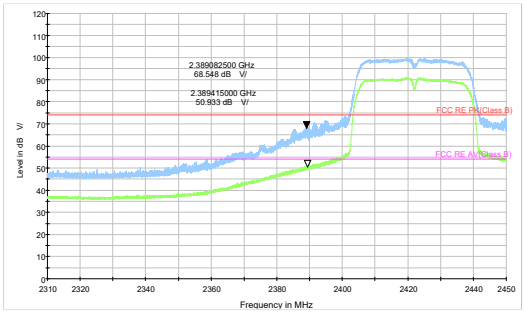
802.11n HT20 -Channel 2 Peak + Average



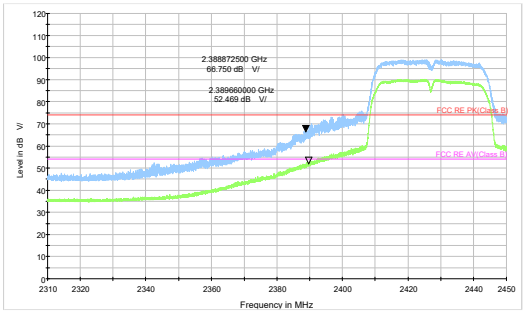
802.11n HT20 -Channel 10 Peak + Average



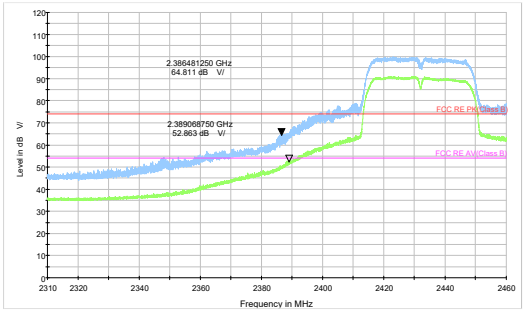
802.11n HT20 -Channel 11 Peak + Average



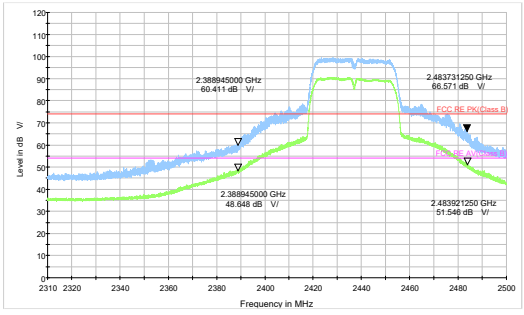
802.11n HT40 –Channel 3 Peak + Average



802.11n HT40 –Channel 4 Peak + Average



802.11n HT40 –Channel 5 Peak + Average



802.11n HT40 –Channel 6 Peak + Average

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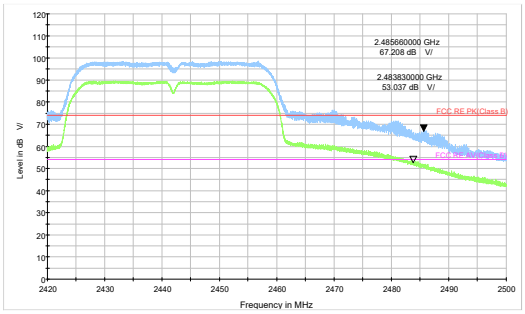
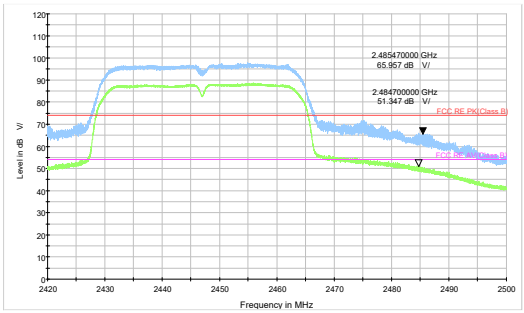
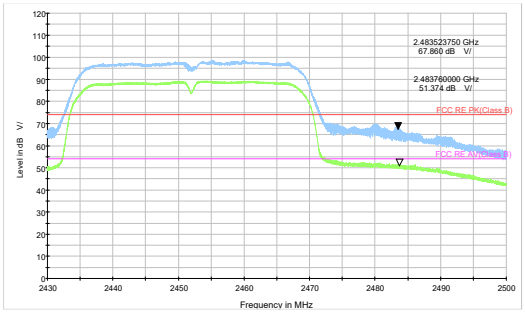


802.11n HT40 –Channel 7 Peak + Average

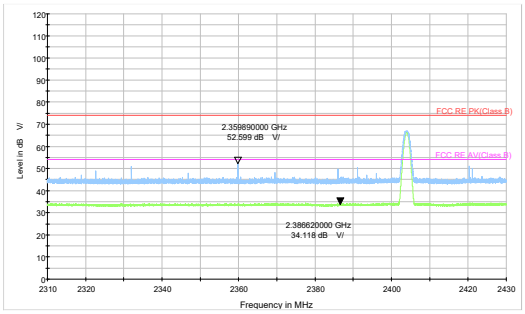


802.11n HT40 –Channel 8 Peak + Average

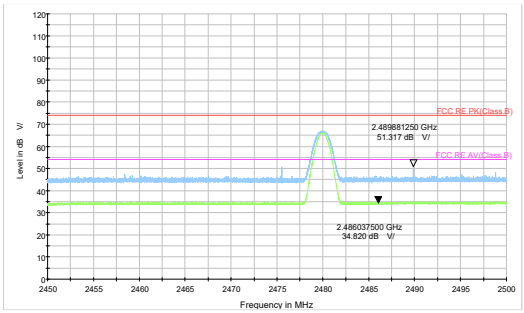


802.11n HT40 –Channel 9 Peak + Average

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



Bluetooth LE Channel 0 Peak + Average



Bluetooth LE Channel 39 Peak + Average

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Result of RE

Test result

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

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

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Continuous TX mode:

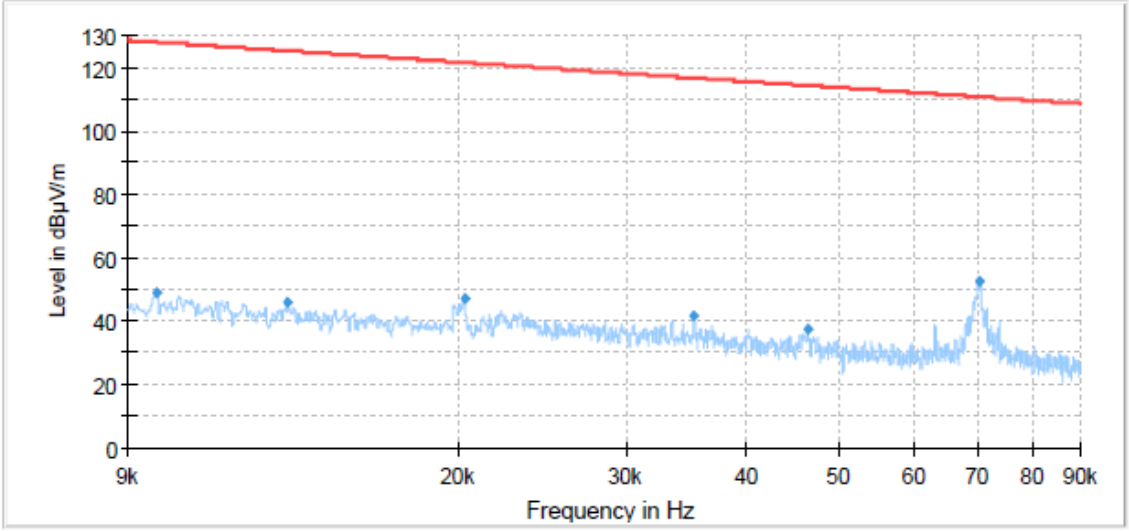
Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak**
3. **Margin = Limit –MAX Peak/ Average**
4. **A symbol (dB μV) in the test plot below means (dBμV/m)**
5. 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

Wi-Fi 2.4G

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol (dB μV) in the test plot below means (dBμV/m)



Radiates Emission from 9KHz to 90KHz

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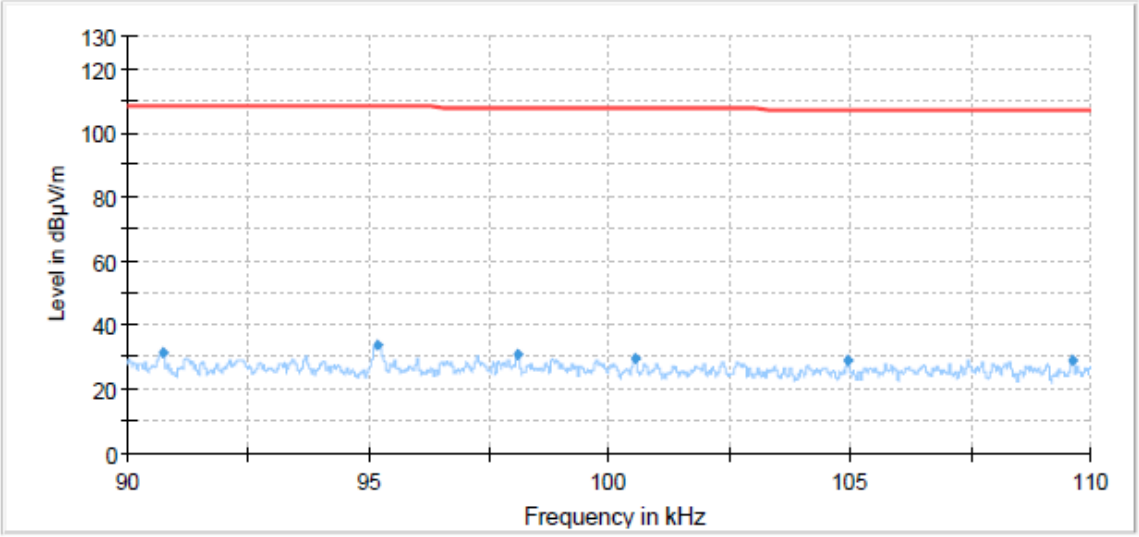
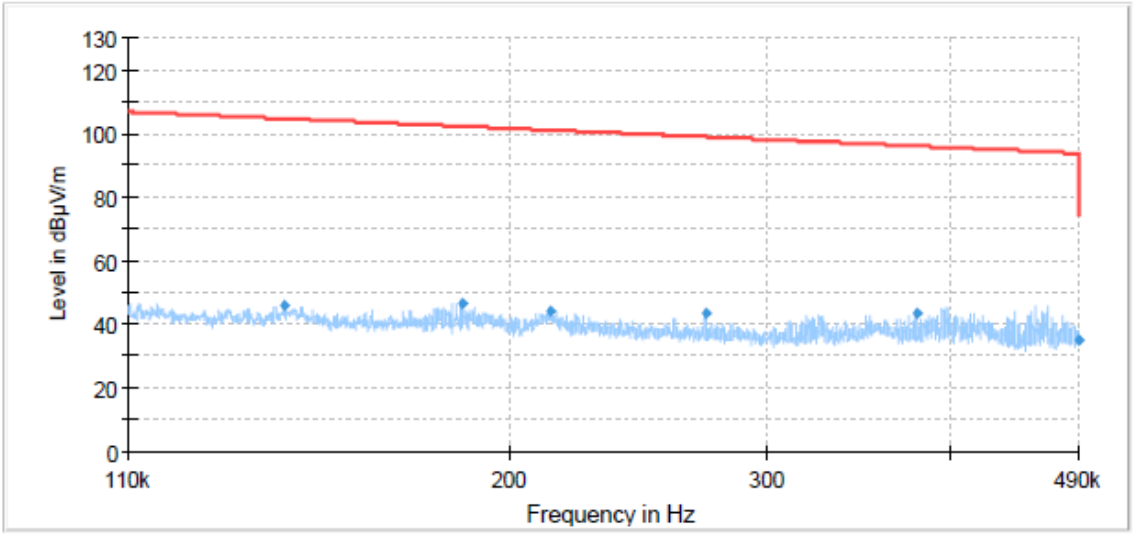


Radiates Emission from 90KHz to 110KHz



Radiates Emission from 110KHz to 490KHz

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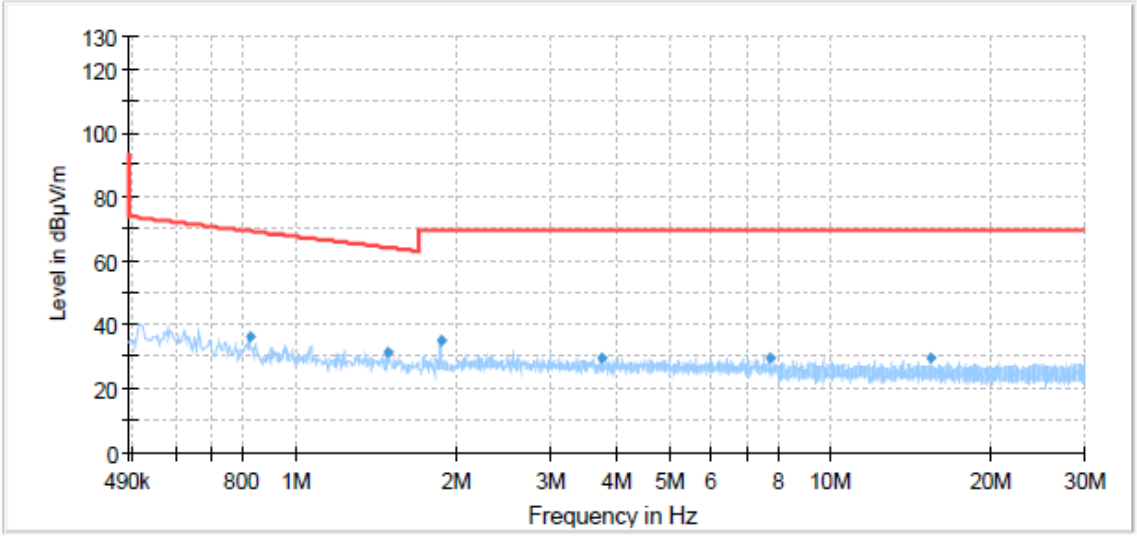

Radiates Emission from 490KHz to 30MHz

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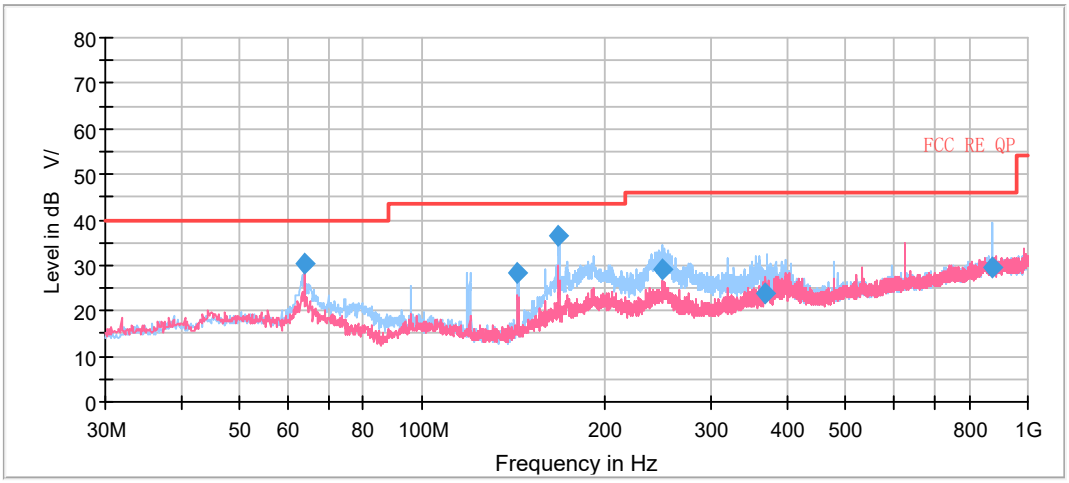

Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
64.071250	30.54	40.00	9.46	225.0	H	168.0	18.4
144.013750	28.14	43.50	15.36	185.0	H	128.0	15.5
168.022500	36.51	43.50	6.99	175.0	H	125.0	16.4
249.626250	29.05	46.00	16.95	100.0	H	135.0	20.5
369.545000	23.85	46.00	22.15	100.0	H	97.0	22.6
873.087500	29.59	46.00	16.41	125.0	H	279.0	30.6

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

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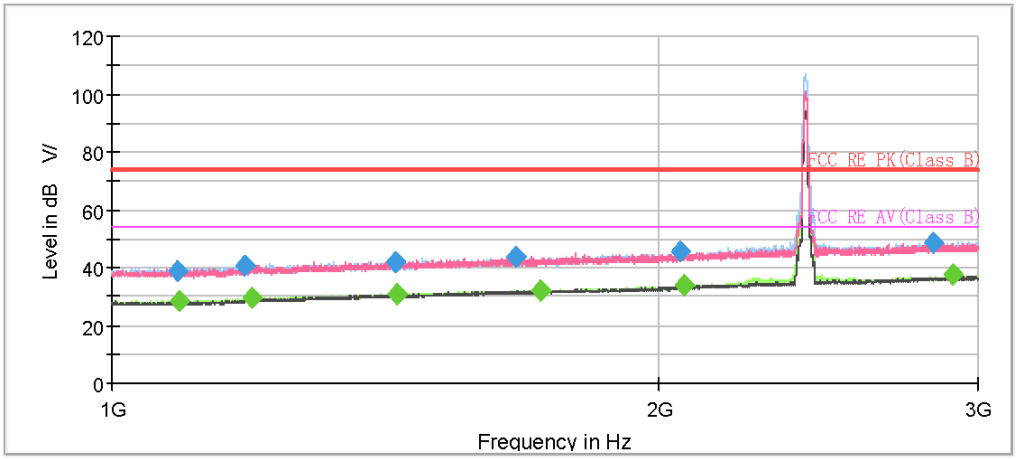
802.11b CH1



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)
1086.000000	38.89	---	74.00	35.11	500.0	100.0	H	280.0	-10.2
1088.500000	---	28.28	54.00	25.72	500.0	100.0	H	151.0	-10.2
1182.500000	40.41	---	74.00	33.59	500.0	100.0	V	98.0	-9.2
1194.000000	---	29.27	54.00	24.73	500.0	200.0	H	83.0	-8.9
1431.500000	42.07	---	74.00	31.93	500.0	100.0	V	112.0	-7.4
1435.250000	---	30.64	54.00	23.36	500.0	100.0	H	59.0	-7.4
1668.250000	43.75	---	74.00	30.25	500.0	100.0	H	299.0	-6.1
1722.500000	---	32.00	54.00	22.00	500.0	100.0	H	101.0	-5.9
2057.750000	45.69	---	74.00	28.31	500.0	200.0	H	19.0	-4.1
2065.500000	---	33.54	54.00	20.46	500.0	200.0	H	42.0	-4.1
2835.000000	48.90	---	74.00	25.10	500.0	200.0	V	283.0	-1.1
2907.000000	---	37.29	54.00	16.71	500.0	100.0	H	214.0	-1.0

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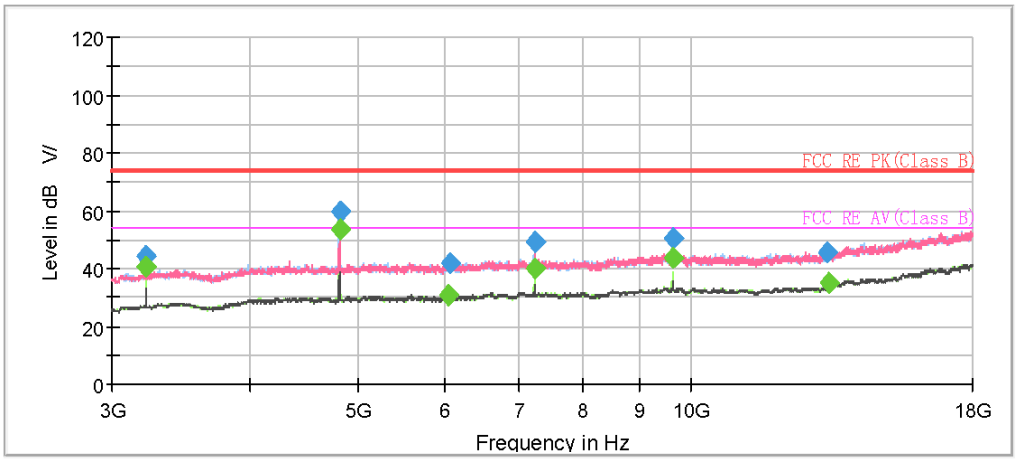

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.888750	---	40.73	54.00	13.27	500.0	200.0	H	20.0	-9.9
3216.013750	44.43	---	74.00	29.57	500.0	100.0	H	20.0	-9.9
4823.811250	---	53.56	54.00	0.44	500.0	100.0	H	250.0	-6.1
4823.977500	59.90	---	74.00	14.10	500.0	100.0	H	250.0	-6.1
6052.448750	---	30.84	54.00	23.16	500.0	100.0	V	0.0	-4.1
6069.533750	41.69	---	74.00	32.31	500.0	200.0	H	24.0	-4.3
7234.913750	---	40.19	54.00	13.81	500.0	100.0	H	6.0	-2.9
7239.723750	49.25	---	74.00	24.75	500.0	100.0	H	6.0	-2.9
9647.852500	---	43.93	54.00	10.07	500.0	100.0	H	352.0	-0.5
9647.926250	50.22	---	74.00	23.78	500.0	100.0	H	352.0	-0.5
13314.648750	45.54	---	74.00	28.46	500.0	200.0	V	103.0	2.3
13340.546250	---	34.86	54.00	19.14	500.0	200.0	V	8.0	2.3

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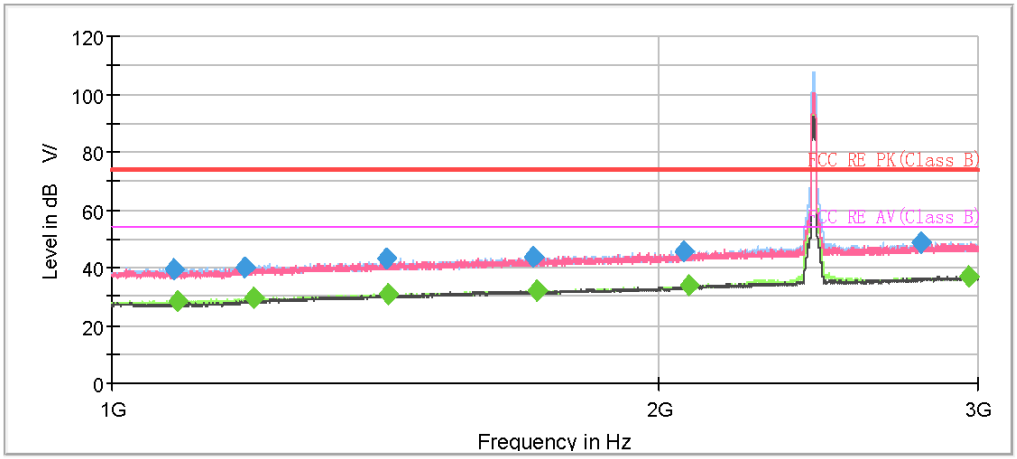
802.11b CH6



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)
1082.000000	39.36	---	74.00	34.64	500.0	100.0	H	19.0	-10.3
1086.000000	---	28.05	54.00	25.95	500.0	100.0	H	220.0	-10.2
1183.250000	40.15	---	74.00	33.85	500.0	200.0	H	210.0	-9.1
1196.500000	---	29.27	54.00	24.73	500.0	200.0	H	169.0	-8.9
1417.250000	42.91	---	74.00	31.09	500.0	200.0	H	46.0	-7.4
1420.500000	---	30.62	54.00	23.38	500.0	200.0	H	91.0	-7.4
1706.750000	43.87	---	74.00	30.13	500.0	100.0	H	192.0	-5.9
1715.750000	---	31.90	54.00	22.10	500.0	200.0	V	334.0	-5.9
2064.500000	45.28	---	74.00	28.72	500.0	100.0	H	183.0	-4.1
2079.750000	---	33.58	54.00	20.42	500.0	200.0	H	28.0	-3.9
2789.250000	48.54	---	74.00	25.46	500.0	200.0	H	178.0	-1.3
2968.750000	---	37.02	54.00	16.98	500.0	200.0	V	211.0	-0.7

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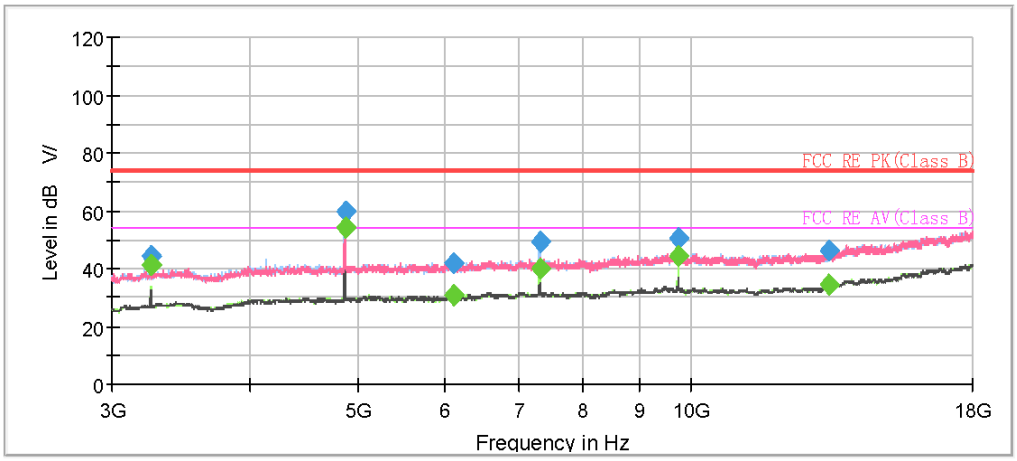

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3249.296250	---	41.48	54.00	12.52	500.0	200.0	H	23.0	-9.7
3249.488750	44.47	---	74.00	29.53	500.0	100.0	H	17.0	-9.7
4873.843750	59.46	---	74.00	14.54	500.0	100.0	H	250.0	-5.8
4873.845000	---	53.86	54.00	0.14	500.0	100.0	H	250.0	-5.8
6115.200000	41.72	---	74.00	32.28	500.0	100.0	V	88.0	-4.6
6115.577500	---	30.51	54.00	23.49	500.0	200.0	V	297.0	-4.6
7309.925000	---	40.24	54.00	13.76	500.0	100.0	H	11.0	-3.0
7310.837500	49.20	---	74.00	24.80	500.0	100.0	H	11.0	-3.0
9747.753750	---	44.24	54.00	9.76	500.0	100.0	H	353.0	-0.5
9747.833750	50.56	---	74.00	23.44	500.0	100.0	H	353.0	-0.5
13343.226250	45.93	---	74.00	28.07	500.0	100.0	H	283.0	2.3
13345.253750	---	34.68	54.00	19.32	500.0	200.0	V	292.0	2.3

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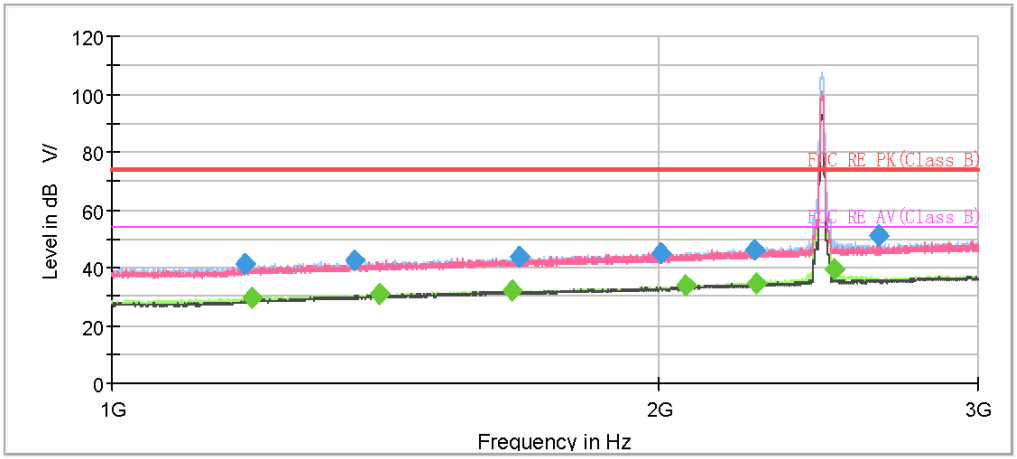
802.11b CH11



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)
1184.000000	40.94	---	74.00	33.06	500.0	200.0	H	58.0	-9.1
1195.500000	---	29.62	54.00	24.38	500.0	200.0	H	11.0	-8.9
1360.250000	42.38	---	74.00	31.62	500.0	200.0	H	72.0	-7.8
1404.500000	---	30.60	54.00	23.40	500.0	200.0	V	194.0	-7.6
1661.000000	---	32.04	54.00	21.96	500.0	200.0	H	261.0	-6.1
1678.000000	43.61	---	74.00	30.39	500.0	200.0	V	94.0	-6.1
2007.750000	45.11	---	74.00	28.89	500.0	200.0	H	215.0	-4.5
2072.750000	---	33.61	54.00	20.39	500.0	100.0	H	182.0	-4.0
2261.750000	46.08	---	74.00	27.92	500.0	200.0	H	63.0	-3.0
2268.000000	---	34.72	54.00	19.28	500.0	100.0	H	359.0	-3.0
2499.250000	---	39.10	54.00	14.90	500.0	100.0	H	359.0	-2.1
2645.500000	50.94	---	74.00	23.06	500.0	200.0	V	295.0	-2.0

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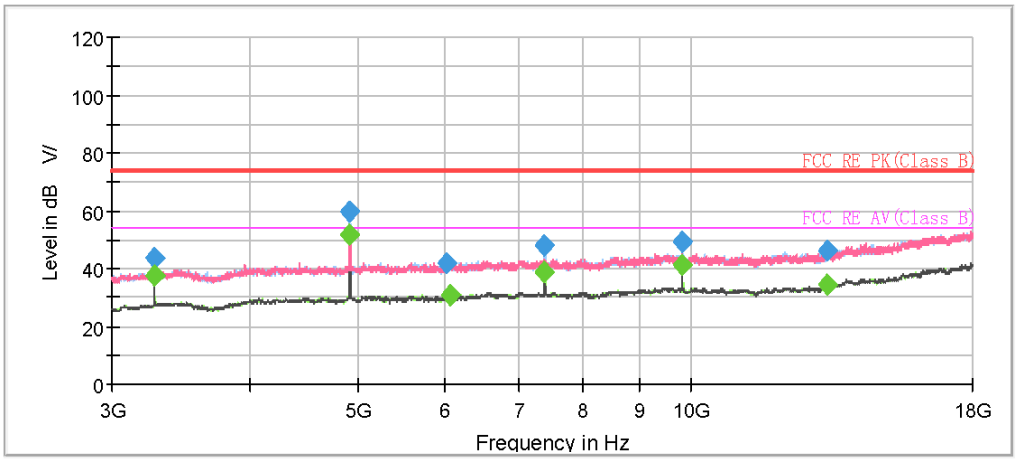

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.250000	---	37.62	54.00	16.38	500.0	100.0	H	17.0	-9.3
3281.250000	43.48	---	74.00	30.52	500.0	200.0	H	19.0	-9.3
4923.750000	---	51.59	54.00	2.41	500.0	100.0	H	249.0	-5.3
4923.750000	59.85	---	74.00	14.15	500.0	100.0	H	249.0	-5.3
6028.125000	41.56	---	74.00	32.44	500.0	200.0	H	24.0	-4.3
6056.250000	---	30.82	54.00	23.18	500.0	200.0	H	213.0	-4.1
7383.750000	---	39.04	54.00	14.96	500.0	100.0	H	0.0	-2.8
7385.625000	47.99	---	74.00	26.01	500.0	100.0	H	0.0	-2.8
9847.500000	49.15	---	74.00	24.85	500.0	100.0	H	351.0	-0.4
9847.500000	---	41.25	54.00	12.75	500.0	100.0	H	351.0	-0.4
13312.500000	---	34.73	54.00	19.27	500.0	100.0	V	154.0	2.3
13312.500000	45.93	---	74.00	28.07	500.0	200.0	V	235.0	2.3

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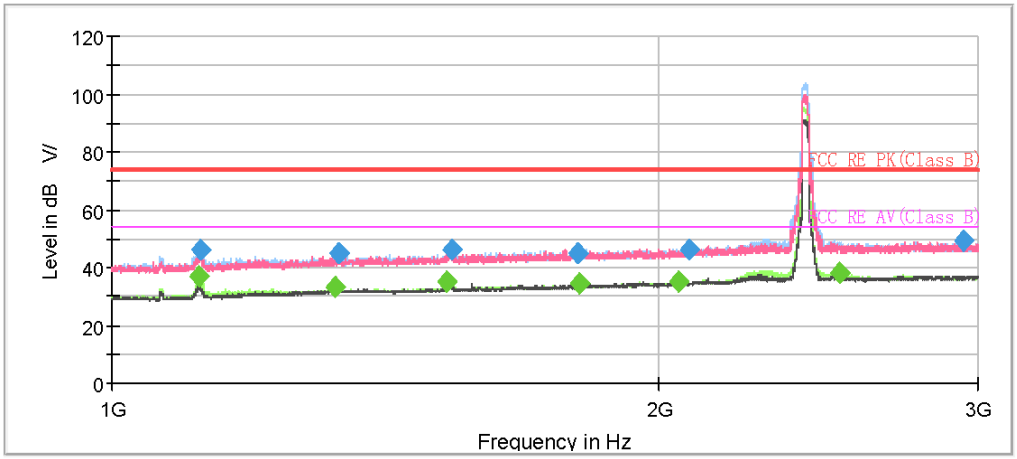
802.11g CH1



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)
1117.000000	---	36.72	54.00	17.28	500.0	200.0	H	141.0	-10.0
1118.000000	46.21	---	74.00	27.79	500.0	200.0	H	141.0	-10.0
1328.500000	---	32.95	54.00	21.05	500.0	200.0	H	232.0	-8.0
1332.500000	45.13	---	74.00	28.87	500.0	100.0	V	168.0	-8.0
1528.250000	---	34.82	54.00	19.18	500.0	100.0	H	157.0	-6.8
1538.500000	46.01	---	74.00	27.99	500.0	100.0	H	125.0	-6.8
1806.750000	45.00	---	74.00	29.00	500.0	100.0	V	68.0	-5.4
1811.250000	---	34.39	54.00	19.61	500.0	200.0	H	148.0	-5.4
2050.500000	---	35.14	54.00	18.86	500.0	200.0	H	69.0	-4.2
2078.500000	46.39	---	74.00	27.61	500.0	200.0	V	91.0	-3.9
2515.750000	---	38.08	54.00	15.92	500.0	200.0	H	61.0	-2.1
2946.500000	48.98	---	74.00	25.02	500.0	100.0	H	333.0	-0.9

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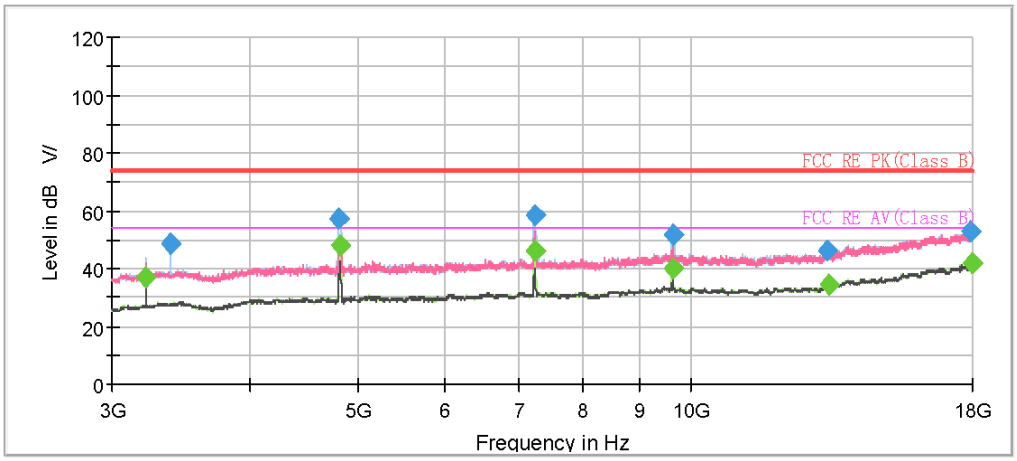

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.625000	---	36.62	54.00	17.38	500.0	200.0	H	8.0	-9.9
3390.000000	48.44	---	74.00	25.56	500.0	100.0	H	0.0	-8.8
4815.000000	57.54	---	74.00	16.46	500.0	100.0	H	244.0	-6.1
4824.375000	---	48.24	54.00	5.76	500.0	100.0	H	248.0	-6.1
7231.875000	58.45	---	74.00	15.55	500.0	100.0	H	3.0	-2.9
7237.500000	---	45.86	54.00	8.14	500.0	100.0	H	0.0	-2.9
9646.875000	51.97	---	74.00	22.03	500.0	100.0	H	2.0	-0.5
9650.625000	---	40.02	54.00	13.98	500.0	100.0	H	356.0	-0.5
13327.500000	45.99	---	74.00	28.01	500.0	100.0	V	85.0	2.3
13346.250000	---	34.60	54.00	19.40	500.0	200.0	V	165.0	2.4
17930.625000	52.67	---	74.00	21.33	500.0	100.0	V	30.0	10.3
17973.750000	---	41.58	54.00	12.42	500.0	100.0	H	143.0	10.8

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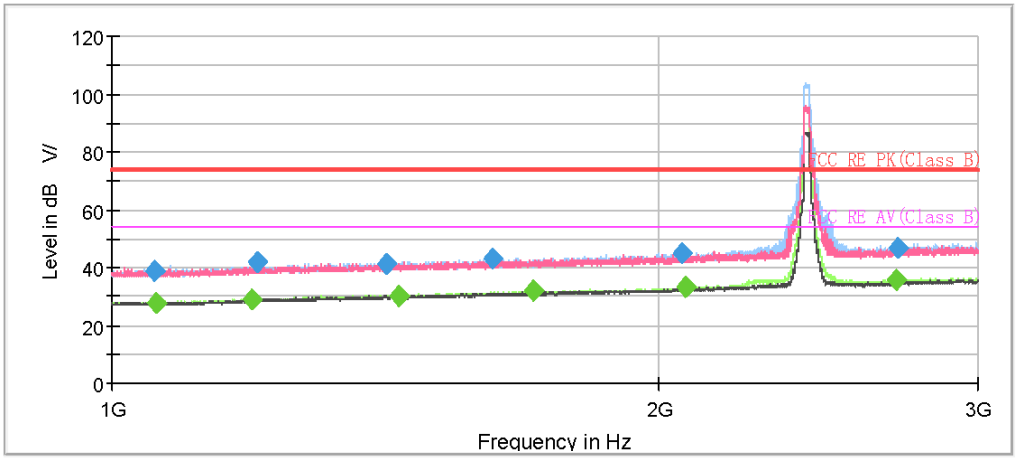
802.11g CH2



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)
1054.250000	38.77	---	74.00	35.23	500.0	200.0	V	293.0	-10.5
1057.000000	---	27.61	54.00	26.39	500.0	100.0	H	30.0	-10.4
1194.000000	---	29.20	54.00	24.80	500.0	100.0	V	238.0	-8.9
1202.750000	41.71	---	74.00	32.29	500.0	100.0	H	157.0	-8.8
1417.500000	41.31	---	74.00	32.69	500.0	100.0	H	13.0	-7.4
1439.000000	---	30.16	54.00	23.84	500.0	200.0	H	174.0	-7.3
1620.750000	42.96	---	74.00	31.04	500.0	100.0	H	34.0	-6.3
1707.000000	---	31.71	54.00	22.29	500.0	200.0	H	348.0	-5.9
2062.750000	44.88	---	74.00	29.12	500.0	100.0	V	322.0	-4.1
2072.000000	---	33.53	54.00	20.47	500.0	200.0	H	352.0	-4.0
2707.000000	---	35.96	54.00	18.04	500.0	100.0	H	173.0	-1.6
2712.750000	46.67	---	74.00	27.33	500.0	200.0	H	255.0	-1.5

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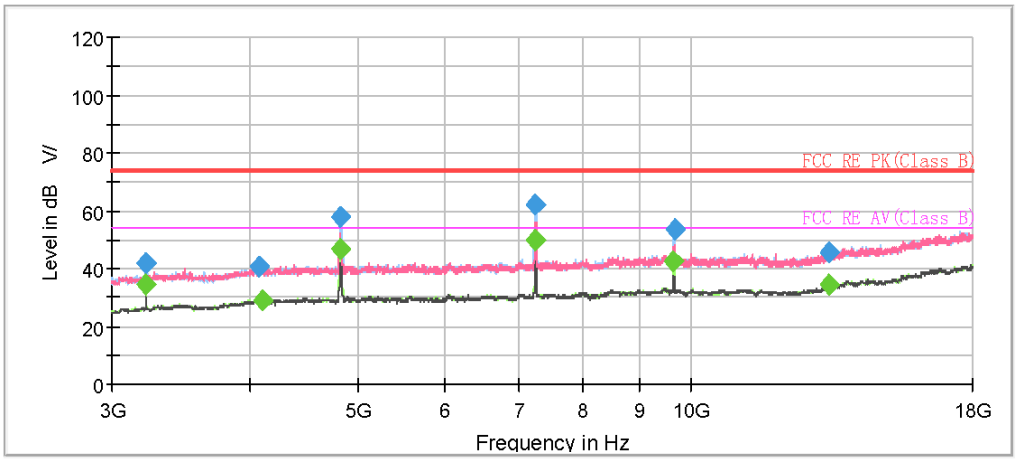

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3221.250000	---	34.67	54.00	19.33	500.0	200.0	H	168.0	-9.8
3221.250000	41.81	---	74.00	32.19	500.0	200.0	H	168.0	-9.8
4066.875000	40.68	---	74.00	33.32	500.0	200.0	H	77.0	-6.5
4104.375000	---	28.72	54.00	25.28	500.0	200.0	H	310.0	-6.6
4833.750000	57.57	---	74.00	16.43	500.0	100.0	H	345.0	-6.0
4835.625000	---	46.72	54.00	7.28	500.0	100.0	H	350.0	-6.0
7248.750000	61.86	---	74.00	12.14	500.0	100.0	H	115.0	-2.9
7248.750000	---	49.86	54.00	4.14	500.0	100.0	H	115.0	-2.9
9667.500000	---	42.56	54.00	11.44	500.0	100.0	H	96.0	-0.6
9671.250000	53.69	---	74.00	20.31	500.0	100.0	H	96.0	-0.6
13346.250000	45.56	---	74.00	28.44	500.0	200.0	H	17.0	2.4
13348.125000	---	34.49	54.00	19.51	500.0	100.0	H	62.0	2.4

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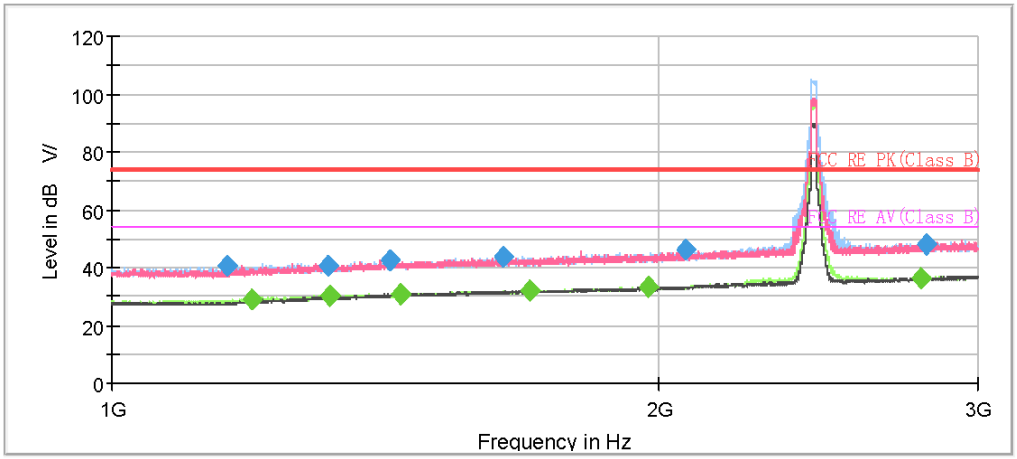
802.11g CH6



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)
1157.500000	40.69	---	74.00	33.31	500.0	200.0	H	156.0	-9.6
1195.500000	---	29.23	54.00	24.77	500.0	200.0	H	122.0	-8.9
1315.000000	40.86	---	74.00	33.14	500.0	200.0	H	282.0	-8.1
1317.750000	---	29.90	54.00	24.10	500.0	200.0	H	54.0	-8.1
1423.000000	42.70	---	74.00	31.30	500.0	200.0	H	54.0	-7.4
1441.500000	---	30.68	54.00	23.32	500.0	100.0	V	158.0	-7.3
1642.250000	43.94	---	74.00	30.06	500.0	100.0	H	228.0	-6.2
1697.500000	---	32.09	54.00	21.91	500.0	100.0	H	214.0	-6.0
1976.250000	---	33.51	54.00	20.49	500.0	100.0	V	278.0	-4.7
2072.500000	45.94	---	74.00	28.06	500.0	200.0	H	185.0	-4.0
2794.000000	---	36.35	54.00	17.65	500.0	100.0	H	341.0	-1.3
2807.750000	47.77	---	74.00	26.23	500.0	100.0	H	295.0	-1.2

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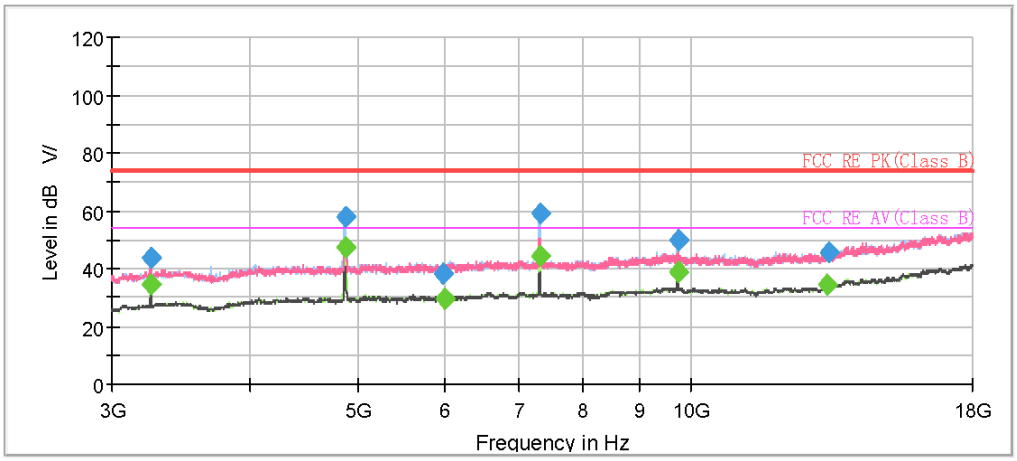

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	34.51	54.00	19.49	500.0	200.0	H	17.0	-9.7
3247.500000	43.95	---	74.00	30.05	500.0	100.0	H	26.0	-9.7
4873.125000	---	47.54	54.00	6.46	500.0	100.0	H	246.0	-5.8
4875.000000	58.04	---	74.00	15.96	500.0	200.0	H	244.0	-5.8
5973.750000	38.42	---	74.00	35.58	500.0	200.0	H	211.0	-4.7
5998.125000	---	29.43	54.00	24.57	500.0	100.0	H	260.0	-4.5
7310.625000	---	44.61	54.00	9.39	500.0	100.0	H	0.0	-3.0
7312.500000	58.77	---	74.00	15.23	500.0	200.0	H	3.0	-3.0
9744.375000	---	38.83	54.00	15.17	500.0	200.0	H	0.0	-0.6
9750.000000	49.70	---	74.00	24.30	500.0	200.0	H	0.0	-0.5
13325.625000	---	34.74	54.00	19.26	500.0	200.0	H	230.0	2.3
13329.375000	45.56	---	74.00	28.44	500.0	200.0	V	241.0	2.3

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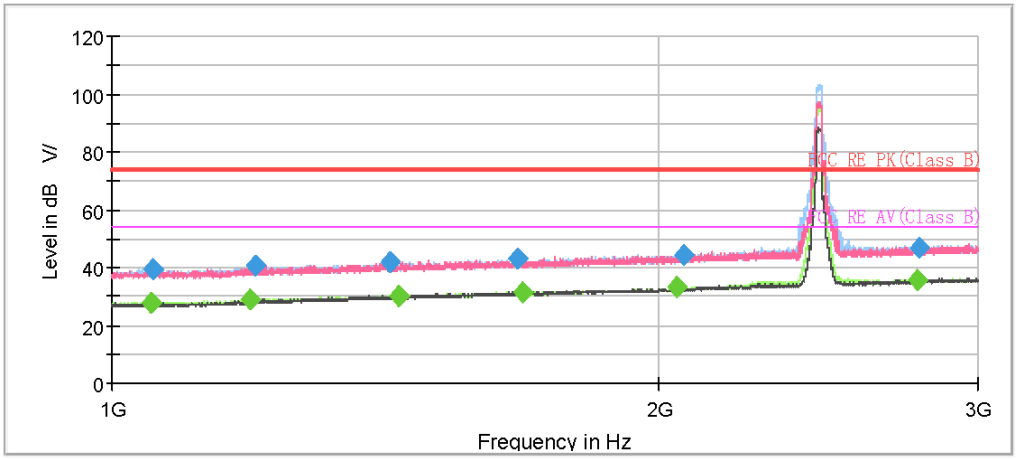
802.11g CH9



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)
1051.750000	---	27.42	54.00	26.58	500.0	100.0	H	258.0	-10.5
1053.250000	39.23	---	74.00	34.77	500.0	100.0	H	225.0	-10.5
1192.750000	---	28.96	54.00	25.04	500.0	100.0	H	317.0	-9.0
1200.000000	40.52	---	74.00	33.48	500.0	100.0	H	300.0	-8.8
1421.500000	41.66	---	74.00	32.34	500.0	200.0	V	70.0	-7.4
1439.250000	---	30.01	54.00	23.99	500.0	200.0	V	74.0	-7.3
1671.500000	42.96	---	74.00	31.04	500.0	100.0	H	0.0	-6.1
1683.500000	---	31.40	54.00	22.60	500.0	100.0	H	304.0	-6.0
2047.250000	---	32.97	54.00	21.03	500.0	100.0	H	0.0	-4.2
2068.000000	44.59	---	74.00	29.41	500.0	200.0	V	217.0	-4.0
2781.250000	---	35.66	54.00	18.34	500.0	200.0	H	120.0	-1.4
2784.750000	46.86	---	74.00	27.14	500.0	100.0	H	262.0	-1.4

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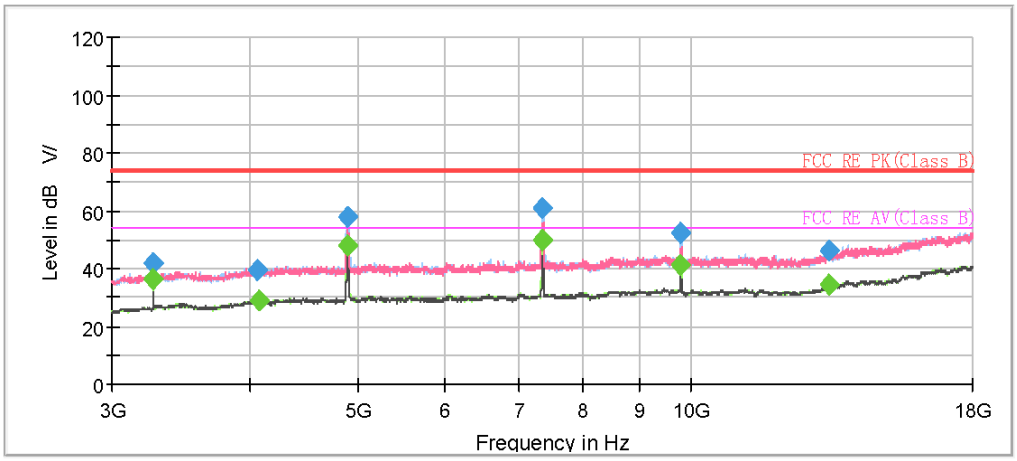

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3268.125000	---	36.27	54.00	17.73	500.0	200.0	H	170.0	-9.5
3268.125000	41.65	---	74.00	32.35	500.0	200.0	H	170.0	-9.5
4063.125000	39.33	---	74.00	34.67	500.0	200.0	H	102.0	-6.6
4072.500000	---	28.68	54.00	25.32	500.0	200.0	H	121.0	-6.5
4901.250000	57.94	---	74.00	16.06	500.0	100.0	H	349.0	-5.4
4905.000000	---	48.14	54.00	5.86	500.0	100.0	H	345.0	-5.4
7353.750000	61.16	---	74.00	12.84	500.0	100.0	H	106.0	-3.0
7353.750000	---	49.75	54.00	4.25	500.0	100.0	H	106.0	-3.0
9806.250000	52.18	---	74.00	21.82	500.0	100.0	H	96.0	-0.4
9808.125000	---	41.10	54.00	12.90	500.0	100.0	H	101.0	-0.4
13344.375000	---	34.33	54.00	19.67	500.0	100.0	V	53.0	2.3
13350.000000	45.96	---	74.00	28.04	500.0	200.0	H	112.0	2.4

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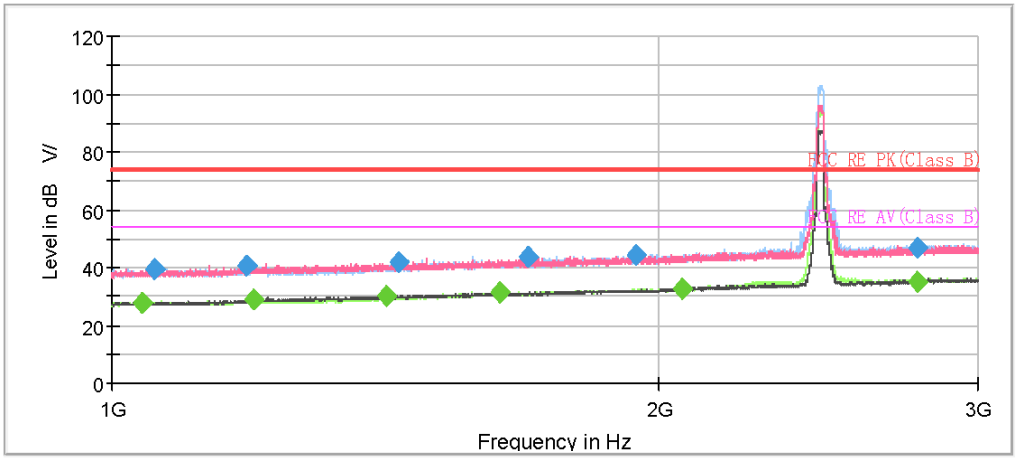
802.11g CH10



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)
1040.000000	---	27.50	54.00	26.50	500.0	200.0	H	283.0	-10.5
1055.500000	39.09	---	74.00	34.91	500.0	200.0	H	153.0	-10.4
1186.750000	40.53	---	74.00	33.47	500.0	100.0	V	316.0	-9.1
1197.000000	---	28.62	54.00	25.38	500.0	100.0	V	160.0	-8.9
1416.250000	---	30.07	54.00	23.93	500.0	200.0	V	36.0	-7.4
1438.500000	41.62	---	74.00	32.38	500.0	100.0	H	195.0	-7.3
1634.250000	---	31.40	54.00	22.60	500.0	100.0	H	195.0	-6.2
1695.000000	43.78	---	74.00	30.22	500.0	200.0	H	233.0	-6.0
1945.500000	44.52	---	74.00	29.48	500.0	100.0	H	173.0	-4.7
2059.500000	---	32.88	54.00	21.12	500.0	100.0	H	233.0	-4.1
2777.000000	46.82	---	74.00	27.18	500.0	100.0	H	143.0	-1.4
2781.000000	---	35.31	54.00	18.69	500.0	100.0	H	84.0	-1.4

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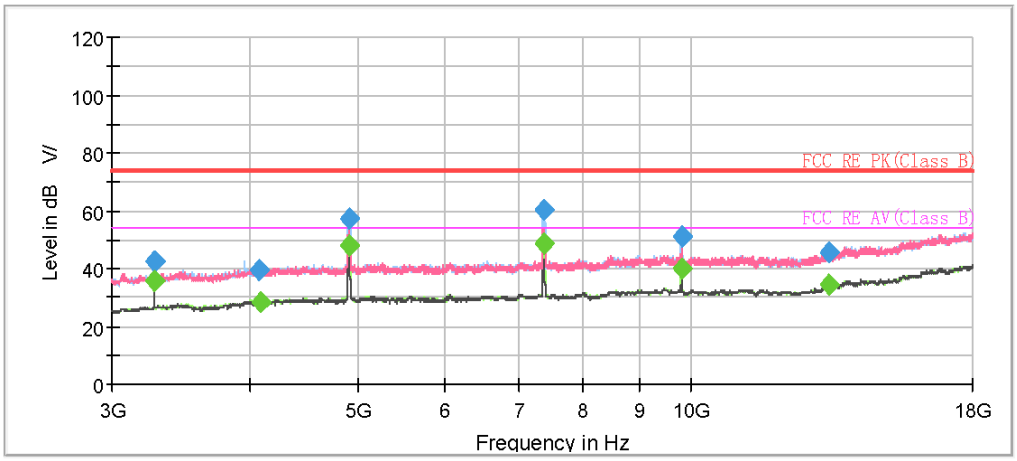

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3275.625000	---	35.45	54.00	18.55	500.0	200.0	H	176.0	-9.4
3275.625000	42.74	---	74.00	31.26	500.0	200.0	H	176.0	-9.4
4070.625000	39.46	---	74.00	34.54	500.0	100.0	V	199.0	-6.5
4085.625000	---	28.34	54.00	25.66	500.0	200.0	H	194.0	-6.6
4910.625000	57.05	---	74.00	16.95	500.0	100.0	H	340.0	-5.3
4912.500000	---	48.21	54.00	5.79	500.0	100.0	H	345.0	-5.3
7374.375000	60.12	---	74.00	13.88	500.0	100.0	H	120.0	-2.8
7374.375000	---	48.37	54.00	5.63	500.0	100.0	H	120.0	-2.8
9826.875000	51.12	---	74.00	22.88	500.0	100.0	H	96.0	-0.4
9828.750000	---	39.77	54.00	14.23	500.0	100.0	H	101.0	-0.4
13338.750000	45.31	---	74.00	28.69	500.0	100.0	V	133.0	2.3
13344.375000	---	34.35	54.00	19.65	500.0	100.0	H	265.0	2.3

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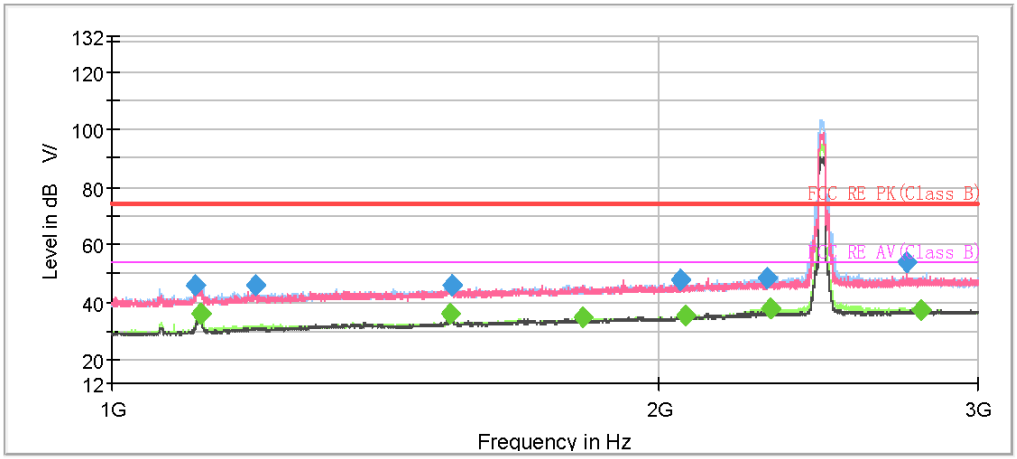
802.11g CH11



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)
1110.500000	46.13	---	74.00	27.87	500.0	200.0	H	141.0	-10.0
1119.000000	---	36.00	54.00	18.00	500.0	200.0	H	141.0	-10.0
1200.000000	45.98	---	74.00	28.02	500.0	200.0	V	221.0	-8.8
1535.250000	---	35.94	54.00	18.06	500.0	200.0	H	53.0	-6.8
1540.250000	45.70	---	74.00	28.30	500.0	100.0	H	127.0	-6.8
1817.250000	---	34.79	54.00	19.21	500.0	200.0	V	196.0	-5.4
2059.000000	47.92	---	74.00	26.08	500.0	200.0	V	104.0	-4.1
2072.500000	---	35.12	54.00	18.88	500.0	200.0	V	5.0	-4.0
2294.000000	48.54	---	74.00	25.46	500.0	200.0	H	53.0	-2.9
2306.500000	---	37.84	54.00	16.16	500.0	200.0	H	87.0	-2.8
2743.750000	53.79	---	74.00	20.21	500.0	200.0	V	65.0	-1.5
2792.500000	---	37.52	54.00	16.48	500.0	200.0	H	164.0	-1.3

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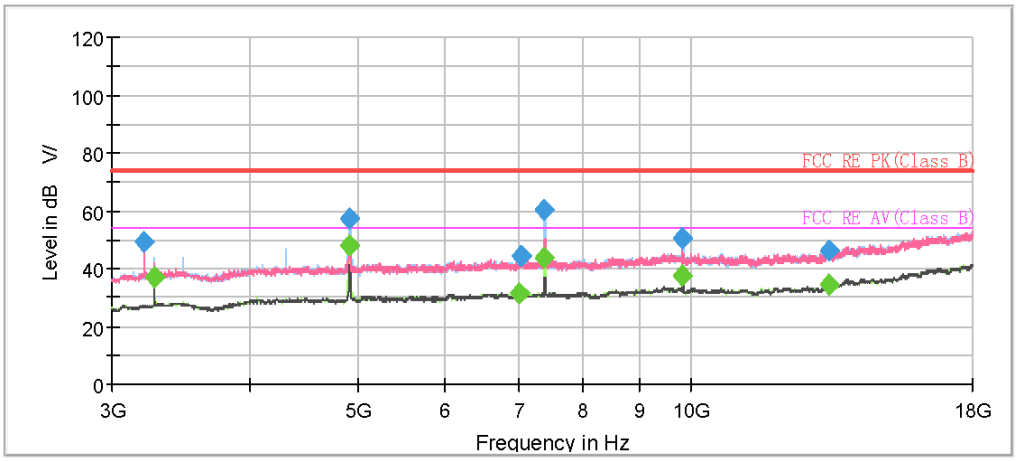

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3208.125000	49.33	---	74.00	24.67	500.0	200.0	V	0.0	-9.9
3281.250000	---	37.20	54.00	16.80	500.0	100.0	H	25.0	-9.3
4920.000000	57.11	---	74.00	16.89	500.0	100.0	H	241.0	-5.3
4923.750000	---	47.70	54.00	6.30	500.0	100.0	H	246.0	-5.3
7006.875000	---	31.56	54.00	22.44	500.0	200.0	H	161.0	-3.0
7031.250000	44.26	---	74.00	29.74	500.0	200.0	V	110.0	-3.1
7385.625000	---	43.45	54.00	10.55	500.0	100.0	H	5.0	-2.8
7387.500000	60.47	---	74.00	13.53	500.0	100.0	H	0.0	-2.8
9841.875000	---	37.58	54.00	16.42	500.0	100.0	H	354.0	-0.4
9849.375000	50.26	---	74.00	23.74	500.0	100.0	H	0.0	-0.4
13342.500000	---	34.45	54.00	19.55	500.0	100.0	H	284.0	2.3
13350.000000	45.96	---	74.00	28.04	500.0	100.0	V	11.0	2.4

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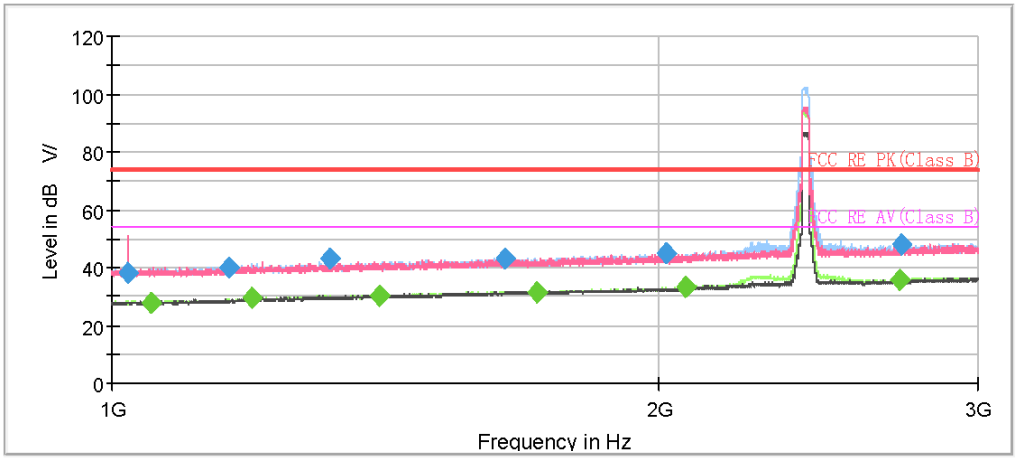
802.11n (HT20) CH1



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)
1020.250000	38.27	---	74.00	35.73	500.0	200.0	H	296.0	-10.6
1051.250000	---	27.92	54.00	26.08	500.0	200.0	H	304.0	-10.5
1159.000000	39.79	---	74.00	34.21	500.0	100.0	V	341.0	-9.6
1195.250000	---	29.43	54.00	24.57	500.0	100.0	H	50.0	-8.9
1317.750000	42.86	---	74.00	31.14	500.0	100.0	H	299.0	-8.1
1404.500000	---	30.46	54.00	23.54	500.0	100.0	H	37.0	-7.6
1645.750000	43.30	---	74.00	30.70	500.0	200.0	H	195.0	-6.2
1715.250000	---	31.66	54.00	22.34	500.0	200.0	H	287.0	-5.9
2019.750000	44.70	---	74.00	29.30	500.0	200.0	H	38.0	-4.4
2070.000000	---	33.37	54.00	20.63	500.0	200.0	H	144.0	-4.0
2717.500000	---	35.61	54.00	18.39	500.0	100.0	H	178.0	-1.5
2721.750000	47.74	---	74.00	26.26	500.0	200.0	H	132.0	-1.5

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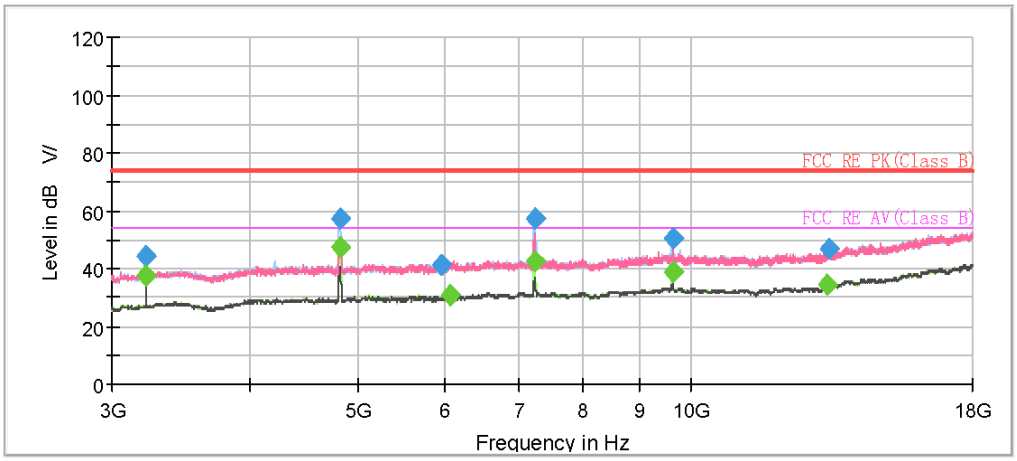

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.625000	---	37.28	54.00	16.72	500.0	200.0	H	14.0	-9.9
3215.625000	44.03	---	74.00	29.97	500.0	200.0	H	14.0	-9.9
4820.625000	---	47.29	54.00	6.71	500.0	100.0	H	250.0	-6.1
4826.250000	57.41	---	74.00	16.59	500.0	100.0	H	246.0	-6.1
5964.375000	40.99	---	74.00	33.01	500.0	100.0	V	269.0	-4.7
6065.625000	---	31.02	54.00	22.98	500.0	100.0	V	143.0	-4.2
7233.750000	57.06	---	74.00	16.94	500.0	100.0	H	359.0	-2.9
7239.375000	---	42.73	54.00	11.27	500.0	100.0	H	5.0	-2.9
9645.000000	50.46	---	74.00	23.54	500.0	100.0	H	0.0	-0.5
9648.750000	---	38.77	54.00	15.23	500.0	100.0	H	0.0	-0.5
13314.375000	---	34.64	54.00	19.36	500.0	100.0	V	161.0	2.3
13346.250000	46.66	---	74.00	27.34	500.0	200.0	H	276.0	2.4

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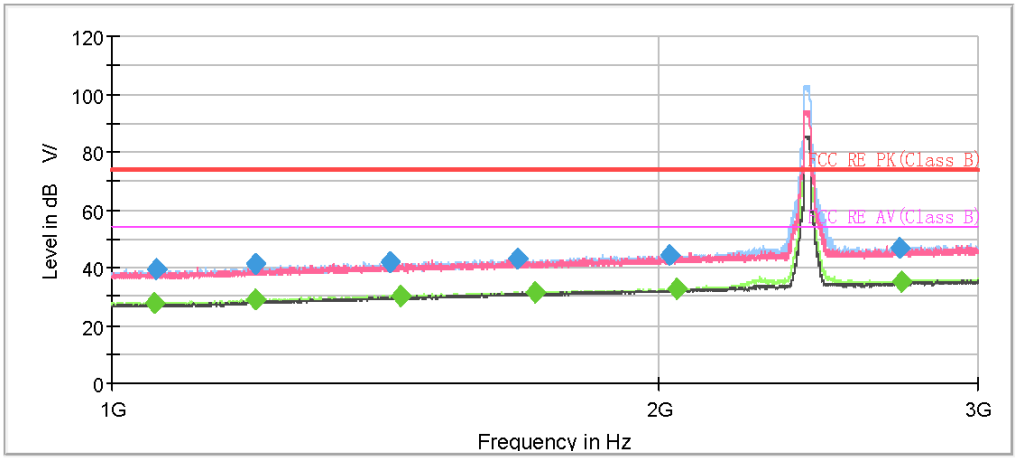
802.11n (HT20) CH2



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)
1055.500000	---	27.71	54.00	26.29	500.0	100.0	H	342.0	-10.4
1057.750000	39.17	---	74.00	34.83	500.0	100.0	H	209.0	-10.4
1199.000000	---	28.89	54.00	25.11	500.0	100.0	H	338.0	-8.8
1200.250000	40.93	---	74.00	33.07	500.0	100.0	V	148.0	-8.8
1424.250000	41.74	---	74.00	32.26	500.0	100.0	H	213.0	-7.4
1441.500000	---	29.95	54.00	24.05	500.0	100.0	H	276.0	-7.3
1674.250000	42.84	---	74.00	31.16	500.0	200.0	H	176.0	-6.1
1710.500000	---	31.36	54.00	22.64	500.0	100.0	H	293.0	-5.9
2028.000000	44.46	---	74.00	29.54	500.0	100.0	H	347.0	-4.4
2049.000000	---	32.83	54.00	21.17	500.0	100.0	H	305.0	-4.2
2717.000000	46.56	---	74.00	27.44	500.0	200.0	H	109.0	-1.5
2720.750000	---	35.22	54.00	18.78	500.0	100.0	H	242.0	-1.5

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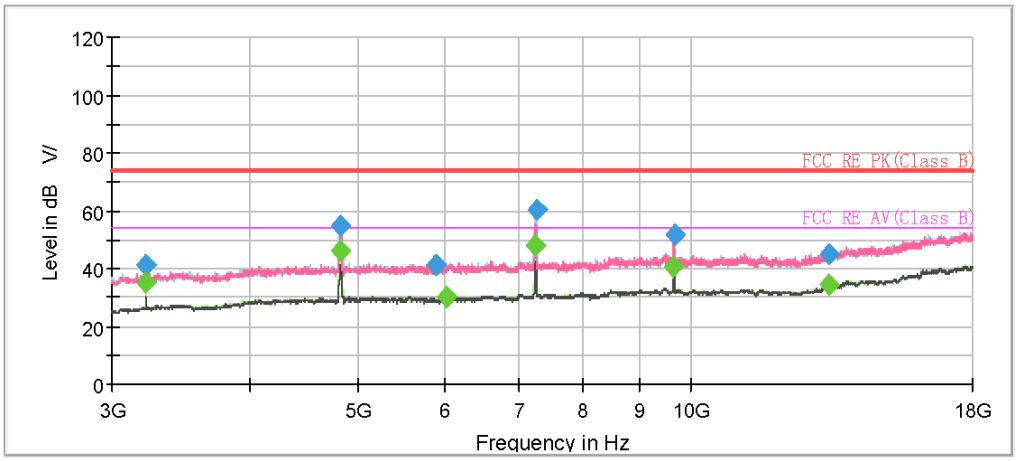

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3221.250000	---	34.78	54.00	19.22	500.0	200.0	H	173.0	-9.8
3221.250000	41.27	---	74.00	32.73	500.0	200.0	H	173.0	-9.8
4831.875000	---	46.08	54.00	7.92	500.0	100.0	H	349.0	-6.0
4835.625000	54.92	---	74.00	19.08	500.0	100.0	H	345.0	-6.0
5896.875000	41.16	---	74.00	32.84	500.0	200.0	H	355.0	-4.9
6024.375000	---	29.89	54.00	24.11	500.0	200.0	H	0.0	-4.3
7250.625000	---	47.85	54.00	6.15	500.0	100.0	H	114.0	-2.9
7254.375000	60.12	---	74.00	13.88	500.0	100.0	H	104.0	-2.9
9667.500000	---	40.88	54.00	13.12	500.0	100.0	H	95.0	-0.6
9676.875000	51.47	---	74.00	22.53	500.0	100.0	H	95.0	-0.7
13338.750000	45.16	---	74.00	28.84	500.0	100.0	H	340.0	2.3
13346.250000	---	34.35	54.00	19.65	500.0	100.0	H	156.0	2.4

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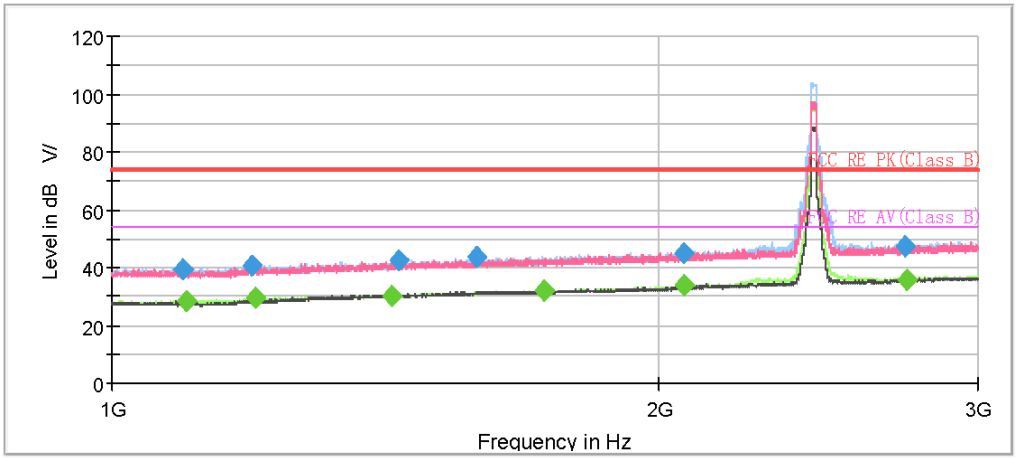
802.11n (HT20) CH6



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)
1094.000000	39.16	---	74.00	34.84	500.0	100.0	H	196.0	-10.1
1098.250000	---	28.06	54.00	25.94	500.0	100.0	H	168.0	-10.1
1193.500000	40.48	---	74.00	33.52	500.0	100.0	V	230.0	-8.9
1199.500000	---	29.26	54.00	24.74	500.0	200.0	H	97.0	-8.8
1426.500000	---	30.42	54.00	23.58	500.0	200.0	H	19.0	-7.4
1440.250000	42.71	---	74.00	31.29	500.0	100.0	V	89.0	-7.3
1588.500000	43.45	---	74.00	30.55	500.0	200.0	V	298.0	-6.4
1730.750000	---	31.89	54.00	22.11	500.0	100.0	H	303.0	-5.8
2065.000000	44.97	---	74.00	29.03	500.0	100.0	H	242.0	-4.1
2066.500000	---	33.61	54.00	20.39	500.0	200.0	V	350.0	-4.1
2736.000000	47.26	---	74.00	26.74	500.0	100.0	H	294.0	-1.5
2743.000000	---	35.71	54.00	18.29	500.0	100.0	H	333.0	-1.5

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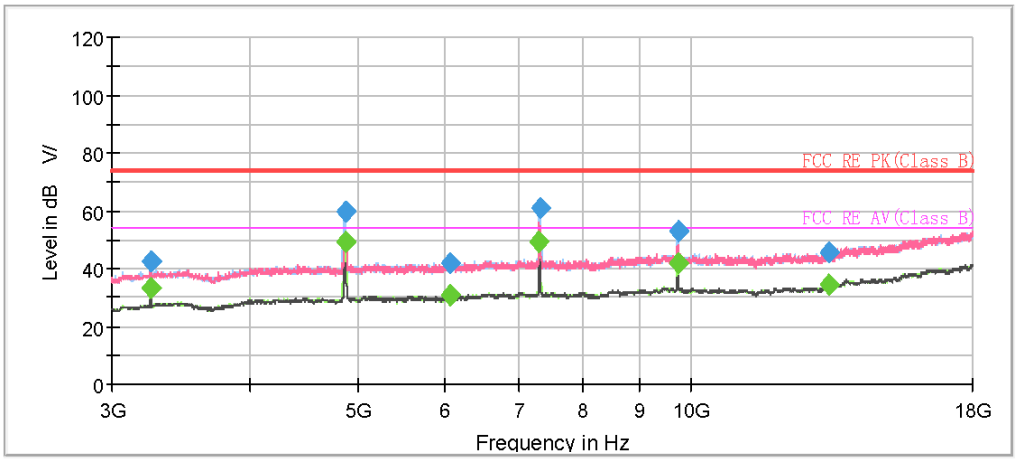

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	33.32	54.00	20.68	500.0	200.0	H	20.0	-9.7
3249.375000	42.50	---	74.00	31.50	500.0	100.0	H	26.0	-9.7
4873.125000	---	49.02	54.00	4.98	500.0	100.0	H	243.0	-5.8
4873.125000	59.41	---	74.00	14.59	500.0	100.0	H	243.0	-5.8
6058.125000	---	30.91	54.00	23.09	500.0	200.0	V	356.0	-4.1
6063.750000	41.89	---	74.00	32.11	500.0	200.0	H	0.0	-4.2
7305.000000	---	49.12	54.00	4.88	500.0	100.0	H	7.0	-3.0
7314.375000	60.81	---	74.00	13.19	500.0	200.0	H	5.0	-3.0
9746.250000	---	41.59	54.00	12.41	500.0	100.0	H	355.0	-0.6
9751.875000	53.03	---	74.00	20.97	500.0	200.0	H	0.0	-0.5
13329.375000	45.59	---	74.00	28.41	500.0	200.0	H	146.0	2.3
13348.125000	---	34.35	54.00	19.65	500.0	200.0	V	132.0	2.4

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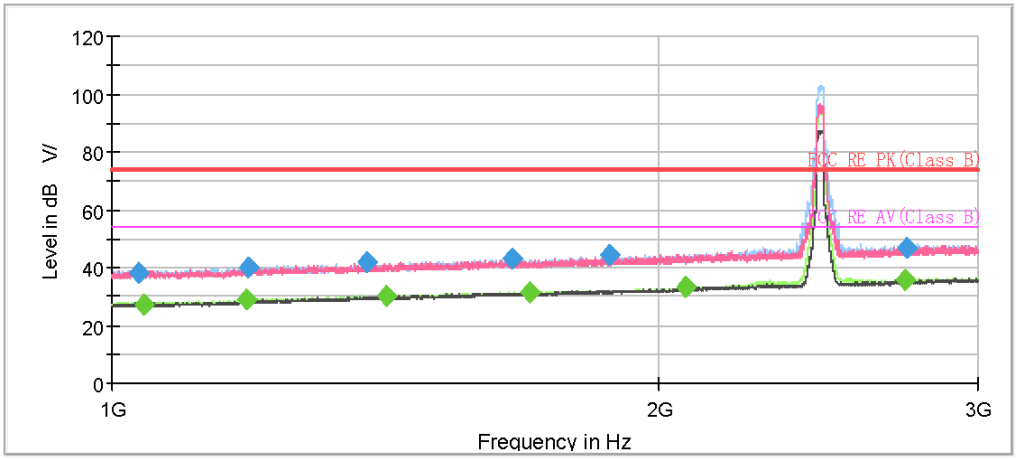
802.11n (HT20) CH10



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)
1034.250000	38.29	---	74.00	35.71	500.0	100.0	H	185.0	-10.5
1040.500000	---	27.11	54.00	26.89	500.0	200.0	H	95.0	-10.5
1185.000000	---	28.85	54.00	25.15	500.0	100.0	H	193.0	-9.1
1188.750000	40.16	---	74.00	33.84	500.0	100.0	H	102.0	-9.0
1380.750000	41.60	---	74.00	32.40	500.0	100.0	H	0.0	-7.7
1417.500000	---	30.21	54.00	23.79	500.0	100.0	H	345.0	-7.4
1661.250000	42.99	---	74.00	31.01	500.0	200.0	V	347.0	-6.1
1698.000000	---	31.43	54.00	22.57	500.0	100.0	H	198.0	-6.0
1880.750000	44.49	---	74.00	29.51	500.0	200.0	H	329.0	-5.1
2068.500000	---	33.01	54.00	20.99	500.0	200.0	V	323.0	-4.0
2735.250000	---	35.70	54.00	18.30	500.0	200.0	H	112.0	-1.5
2740.500000	46.66	---	74.00	27.34	500.0	200.0	V	281.0	-1.5

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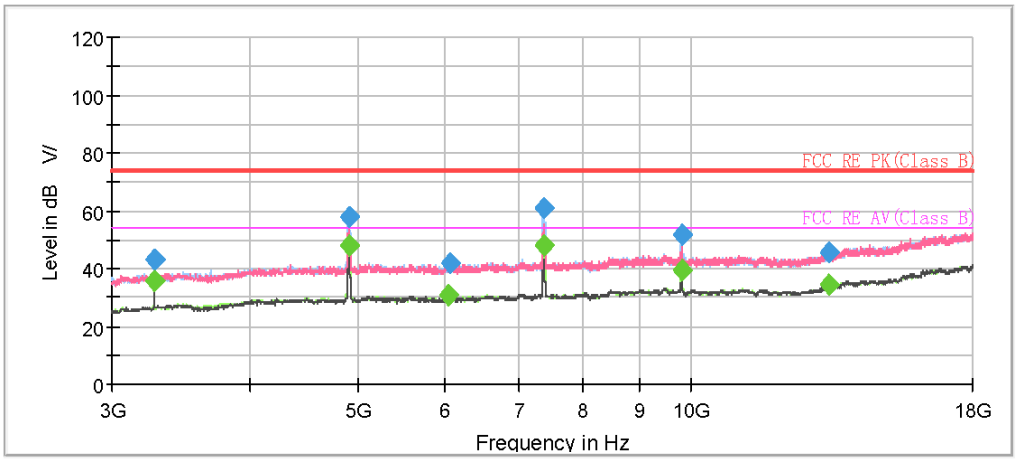

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3275.625000	---	35.46	54.00	18.54	500.0	200.0	H	171.0	-9.4
3275.625000	42.86	---	74.00	31.14	500.0	200.0	H	171.0	-9.4
4910.625000	---	47.71	54.00	6.29	500.0	100.0	H	342.0	-5.3
4920.000000	58.06	---	74.00	15.94	500.0	100.0	H	342.0	-5.3
6054.375000	---	30.55	54.00	23.45	500.0	200.0	H	109.0	-4.1
6061.875000	42.01	---	74.00	31.99	500.0	200.0	H	194.0	-4.2
7370.625000	---	48.18	54.00	5.82	500.0	100.0	H	100.0	-2.9
7378.125000	61.10	---	74.00	12.90	500.0	100.0	H	105.0	-2.8
9828.750000	51.55	---	74.00	22.45	500.0	100.0	H	96.0	-0.4
9828.750000	---	39.63	54.00	14.37	500.0	100.0	H	96.0	-0.4
13338.750000	---	34.41	54.00	19.59	500.0	100.0	H	206.0	2.3
13346.250000	45.67	---	74.00	28.33	500.0	200.0	H	199.0	2.4

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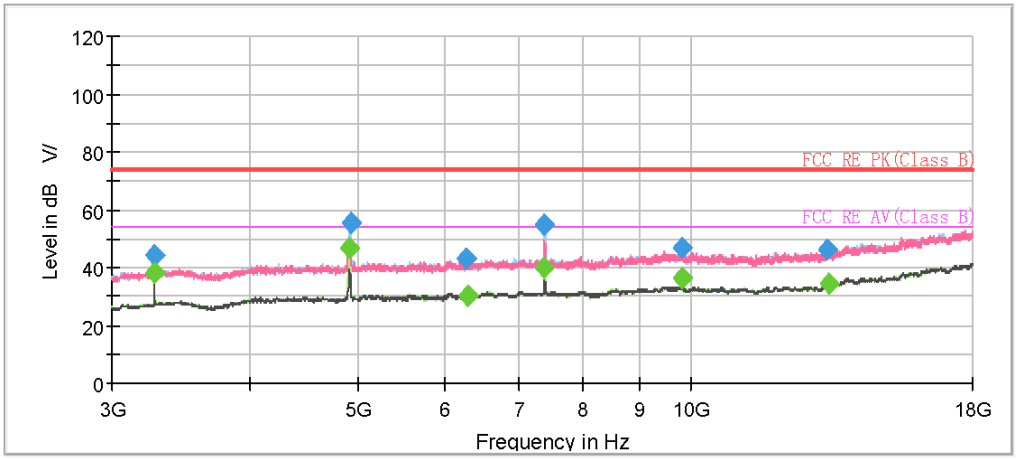
802.11n (HT20) CH11



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)
3281.250000	---	38.07	54.00	15.93	500.0	200.0	H	14.0	-9.3
3281.250000	44.45	---	74.00	29.55	500.0	200.0	H	14.0	-9.3
4920.000000	---	46.93	54.00	7.07	500.0	100.0	H	240.0	-5.3
4927.500000	55.58	---	74.00	18.42	500.0	100.0	H	250.0	-5.4
6260.625000	42.81	---	74.00	31.19	500.0	100.0	H	289.0	-4.3
6290.625000	---	30.36	54.00	23.64	500.0	200.0	V	257.0	-4.3
7383.750000	---	39.84	54.00	14.16	500.0	100.0	H	0.0	-2.8
7385.625000	54.78	---	74.00	19.22	500.0	100.0	H	0.0	-2.8
9841.875000	47.04	---	74.00	26.96	500.0	200.0	H	0.0	-0.4
9841.875000	---	36.46	54.00	17.54	500.0	100.0	H	350.0	-0.4
13293.750000	45.98	---	74.00	28.02	500.0	100.0	H	179.0	2.3
13336.875000	---	34.57	54.00	19.43	500.0	200.0	H	112.0	2.3

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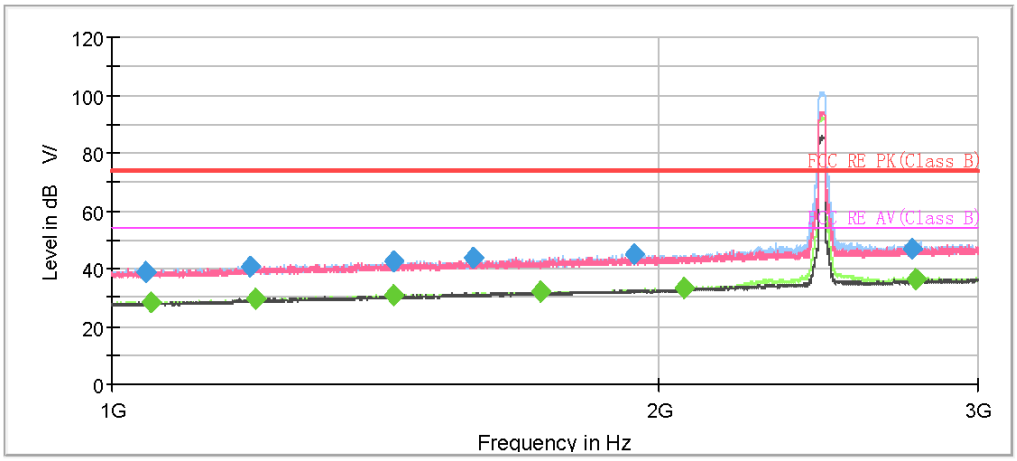

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1043.000000	38.95	---	74.00	35.05	500.0	200.0	H	258.0	-10.5
1051.000000	---	28.02	54.00	25.98	500.0	100.0	H	109.0	-10.5
1192.500000	40.72	---	74.00	33.28	500.0	200.0	V	69.0	-9.0
1200.000000	---	29.55	54.00	24.45	500.0	100.0	H	217.0	-8.8
1428.250000	42.69	---	74.00	31.31	500.0	200.0	H	180.0	-7.4
1430.250000	---	30.66	54.00	23.34	500.0	200.0	V	85.0	-7.4
1580.750000	43.84	---	74.00	30.16	500.0	200.0	V	44.0	-6.5
1720.750000	---	31.73	54.00	22.27	500.0	100.0	H	287.0	-5.9
1941.000000	44.73	---	74.00	29.27	500.0	100.0	H	27.0	-4.7
2065.500000	---	33.21	54.00	20.79	500.0	200.0	H	300.0	-4.1
2762.000000	47.04	---	74.00	26.96	500.0	200.0	H	350.0	-1.5
2773.250000	---	36.41	54.00	17.59	500.0	100.0	H	0.0	-1.4

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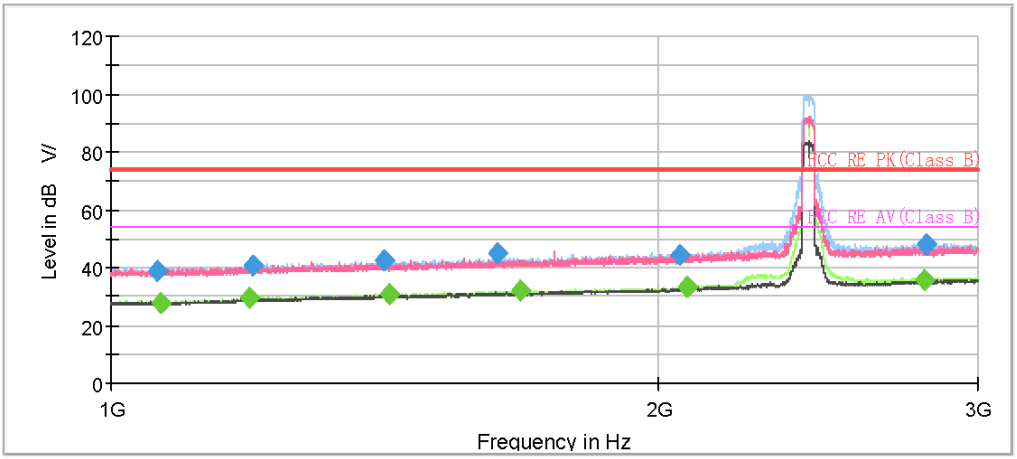
802.11n (HT40) CH3



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)
1059.250000	38.99	---	74.00	35.01	500.0	100.0	H	78.0	-10.4
1064.500000	---	27.69	54.00	26.31	500.0	200.0	H	238.0	-10.3
1192.750000	---	29.30	54.00	24.70	500.0	200.0	V	14.0	-9.0
1197.750000	40.58	---	74.00	33.42	500.0	100.0	V	345.0	-8.8
1412.750000	42.65	---	74.00	31.35	500.0	100.0	H	229.0	-7.5
1422.250000	---	30.48	54.00	23.52	500.0	100.0	H	95.0	-7.4
1630.500000	45.13	---	74.00	28.87	500.0	200.0	V	102.0	-6.2
1680.000000	---	31.90	54.00	22.10	500.0	100.0	H	124.0	-6.0
2057.500000	44.29	---	74.00	29.71	500.0	100.0	H	95.0	-4.1
2073.750000	---	33.31	54.00	20.69	500.0	200.0	H	147.0	-4.0
2807.500000	---	35.83	54.00	18.17	500.0	200.0	H	308.0	-1.2
2813.750000	47.95	---	74.00	26.05	500.0	200.0	H	338.0	-1.2

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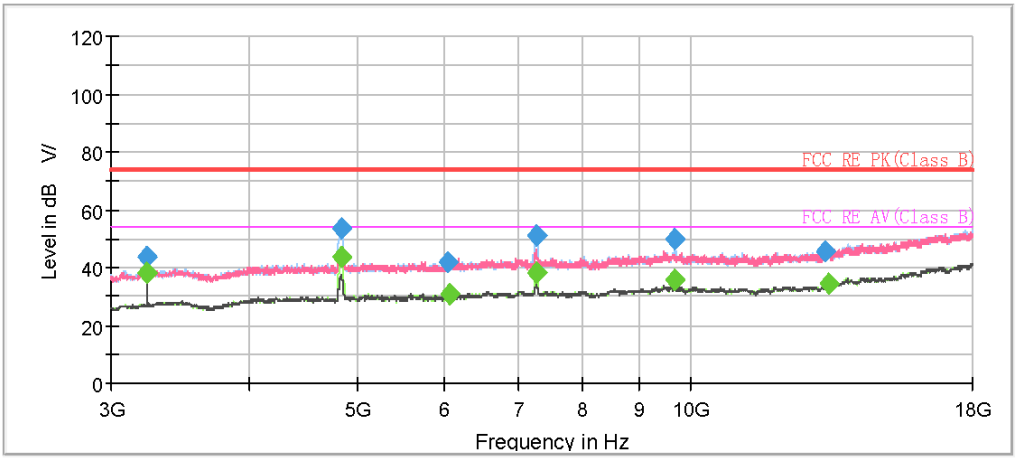

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3228.750000	---	38.38	54.00	15.62	500.0	200.0	H	17.0	-9.8
3228.750000	43.81	---	74.00	30.19	500.0	200.0	H	17.0	-9.8
4839.375000	53.33	---	74.00	20.67	500.0	100.0	H	250.0	-6.0
4841.250000	---	43.57	54.00	10.43	500.0	100.0	H	250.0	-6.0
6052.500000	41.82	---	74.00	32.18	500.0	200.0	H	228.0	-4.1
6065.625000	---	30.84	54.00	23.16	500.0	200.0	H	182.0	-4.2
7258.125000	---	38.38	54.00	15.62	500.0	100.0	H	0.0	-2.9
7271.250000	51.09	---	74.00	22.91	500.0	200.0	H	3.0	-2.9
9686.250000	49.90	---	74.00	24.10	500.0	100.0	H	349.0	-0.7
9688.125000	---	35.90	54.00	18.10	500.0	100.0	H	5.0	-0.7
13278.750000	45.40	---	74.00	28.60	500.0	100.0	H	85.0	2.2
13344.375000	---	34.63	54.00	19.37	500.0	200.0	H	196.0	2.3

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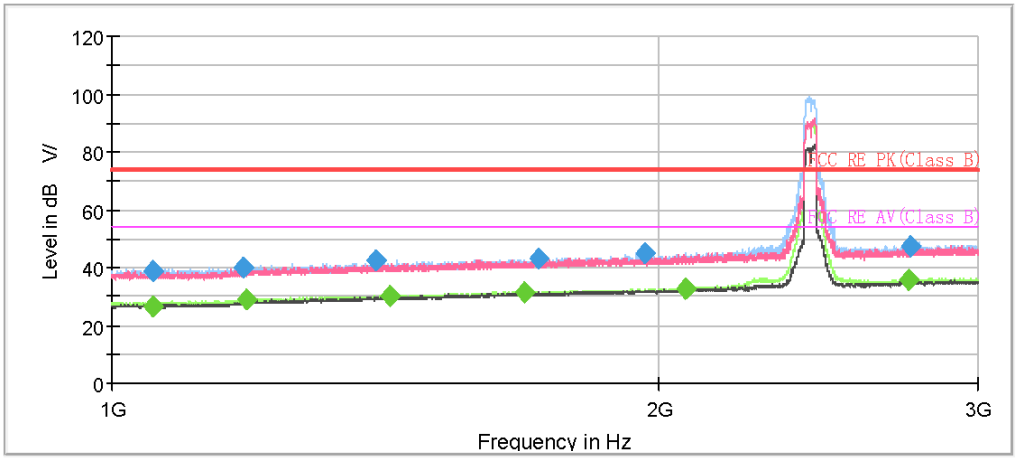
802.11n (HT40) CH4



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)
1052.250000	38.83	---	74.00	35.17	500.0	100.0	H	204.0	-10.5
1052.750000	---	26.47	54.00	27.53	500.0	200.0	V	24.0	-10.5
1182.000000	40.23	---	74.00	33.77	500.0	100.0	H	16.0	-9.2
1187.000000	---	28.83	54.00	25.17	500.0	100.0	H	30.0	-9.1
1396.750000	42.63	---	74.00	31.37	500.0	100.0	V	206.0	-7.6
1423.500000	---	30.06	54.00	23.94	500.0	100.0	H	47.0	-7.4
1689.000000	---	31.43	54.00	22.57	500.0	100.0	H	114.0	-6.0
1717.250000	42.84	---	74.00	31.16	500.0	200.0	H	274.0	-5.9
1967.500000	45.10	---	74.00	28.90	500.0	200.0	V	135.0	-4.7
2072.000000	---	32.87	54.00	21.13	500.0	200.0	H	190.0	-4.0
2749.250000	---	35.75	54.00	18.25	500.0	100.0	H	106.0	-1.5
2753.000000	47.44	---	74.00	26.56	500.0	200.0	H	139.0	-1.5

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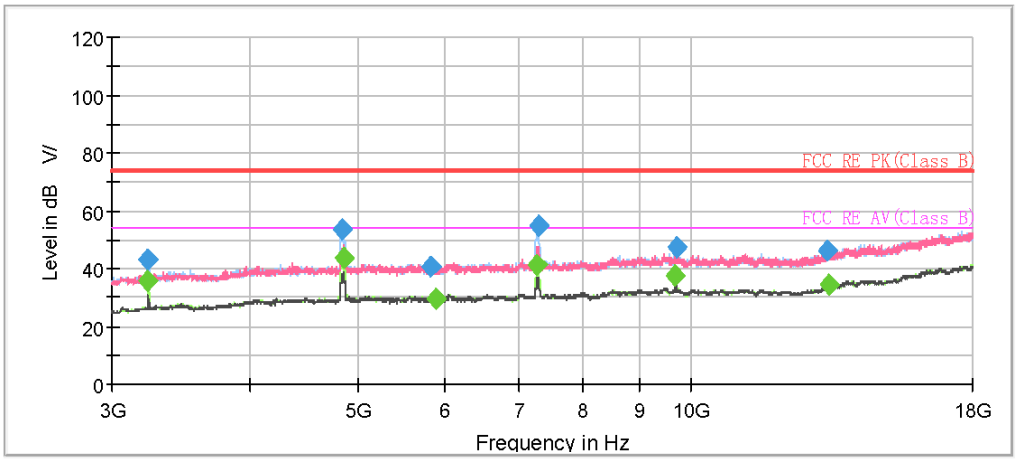

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3234.375000	---	35.87	54.00	18.13	500.0	200.0	H	177.0	-9.8
3234.375000	43.35	---	74.00	30.65	500.0	200.0	H	177.0	-9.8
4852.500000	53.43	---	74.00	20.57	500.0	100.0	H	335.0	-6.0
4854.375000	---	43.42	54.00	10.58	500.0	100.0	H	345.0	-5.9
5831.250000	40.40	---	74.00	33.60	500.0	200.0	H	302.0	-4.9
5898.750000	---	29.39	54.00	24.61	500.0	200.0	H	154.0	-4.9
7278.750000	---	41.41	54.00	12.59	500.0	100.0	H	91.0	-2.9
7284.375000	54.63	---	74.00	19.37	500.0	200.0	H	102.0	-3.0
9706.875000	---	37.32	54.00	16.68	500.0	100.0	H	96.0	-0.7
9720.000000	47.30	---	74.00	26.70	500.0	100.0	H	91.0	-0.7
13327.500000	46.13	---	74.00	27.87	500.0	100.0	H	285.0	2.3
13329.375000	---	34.24	54.00	19.76	500.0	200.0	H	351.0	2.3

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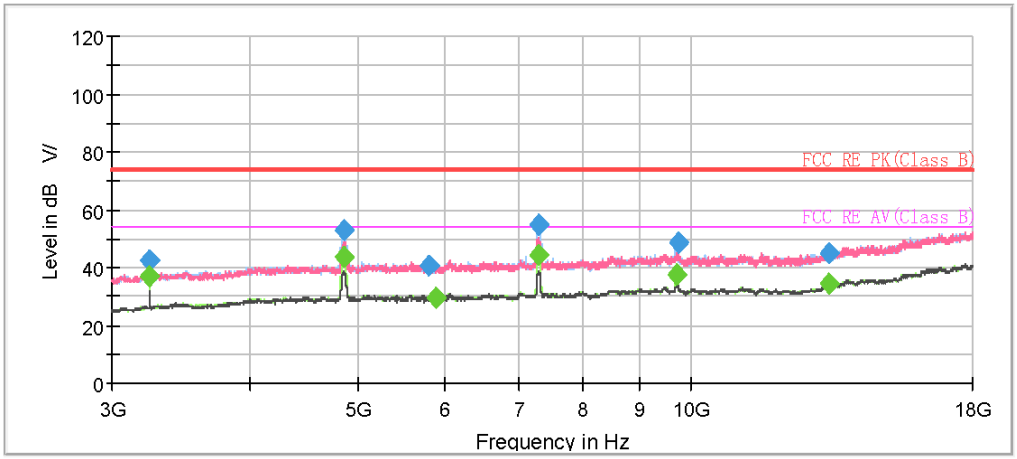
802.11n (HT40) CH5



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)
3241.875000	---	37.01	54.00	16.99	500.0	100.0	H	110.0	-9.7
3241.875000	42.57	---	74.00	31.43	500.0	200.0	H	170.0	-9.7
4860.000000	52.78	---	74.00	21.22	500.0	100.0	H	343.0	-5.9
4861.875000	---	43.51	54.00	10.49	500.0	100.0	H	338.0	-5.9
5808.750000	40.84	---	74.00	33.16	500.0	200.0	V	297.0	-4.8
5900.625000	---	29.30	54.00	24.70	500.0	200.0	H	31.0	-4.9
7291.875000	---	44.07	54.00	9.93	500.0	100.0	H	119.0	-3.0
7295.625000	54.90	---	74.00	19.10	500.0	100.0	H	105.0	-3.0
9718.125000	---	37.75	54.00	16.25	500.0	100.0	H	96.0	-0.7
9744.375000	48.32	---	74.00	25.68	500.0	100.0	H	96.0	-0.6
13344.375000	45.16	---	74.00	28.84	500.0	100.0	V	28.0	2.3
13348.125000	---	34.23	54.00	19.77	500.0	200.0	H	26.0	2.4

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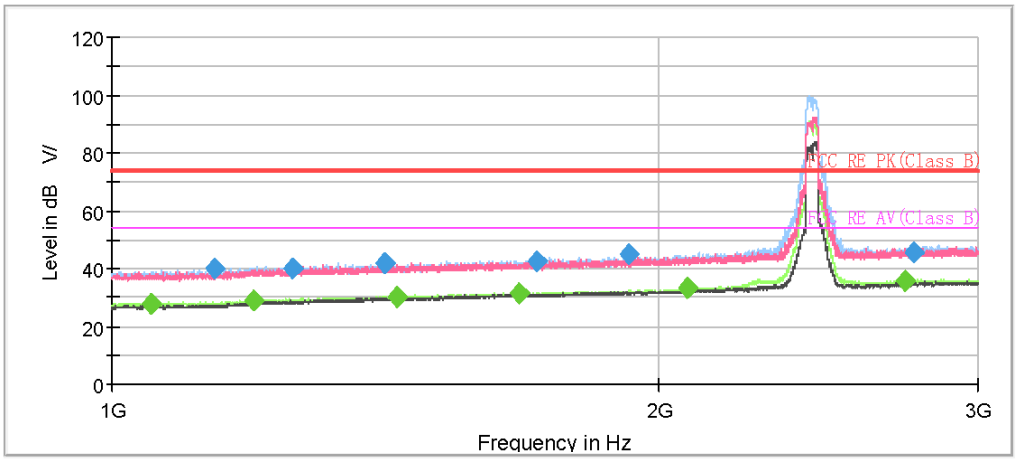

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1050.250000	---	27.39	54.00	26.61	500.0	100.0	H	39.0	-10.5
1140.000000	39.96	---	74.00	34.04	500.0	100.0	H	123.0	-9.8
1196.750000	---	29.06	54.00	24.94	500.0	100.0	H	34.0	-8.9
1257.000000	40.03	---	74.00	33.97	500.0	100.0	H	89.0	-8.6
1414.750000	41.74	---	74.00	32.26	500.0	200.0	V	310.0	-7.5
1436.000000	---	30.43	54.00	23.57	500.0	100.0	H	34.0	-7.4
1676.000000	---	31.33	54.00	22.67	500.0	100.0	H	48.0	-6.1
1713.500000	42.69	---	74.00	31.31	500.0	100.0	H	48.0	-5.9
1927.250000	44.89	---	74.00	29.11	500.0	100.0	H	4.0	-4.8
2075.250000	---	33.02	54.00	20.98	500.0	100.0	H	25.0	-4.0
2736.750000	---	35.66	54.00	18.34	500.0	200.0	H	328.0	-1.5
2766.000000	45.72	---	74.00	28.28	500.0	200.0	H	323.0	-1.5

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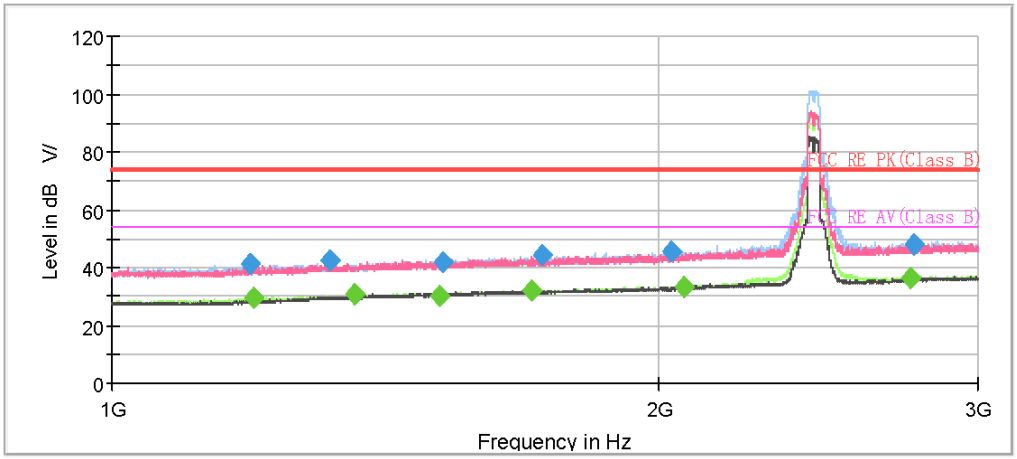
802.11n (HT40) CH6



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)
1191.750000	40.98	---	74.00	33.02	500.0	200.0	H	68.0	-9.0
1196.250000	---	29.23	54.00	24.77	500.0	100.0	H	273.0	-8.9
1318.000000	42.29	---	74.00	31.71	500.0	200.0	V	312.0	-8.1
1360.250000	---	30.52	54.00	23.48	500.0	200.0	H	86.0	-7.8
1515.250000	---	30.38	54.00	23.62	500.0	200.0	H	231.0	-6.9
1521.000000	42.11	---	74.00	31.89	500.0	200.0	H	86.0	-6.9
1701.500000	---	31.90	54.00	22.10	500.0	200.0	V	297.0	-6.0
1725.750000	44.11	---	74.00	29.89	500.0	200.0	V	188.0	-5.8
2035.500000	45.63	---	74.00	28.37	500.0	200.0	H	209.0	-4.3
2067.750000	---	33.51	54.00	20.49	500.0	200.0	H	118.0	-4.0
2754.750000	---	36.45	54.00	17.55	500.0	100.0	H	273.0	-1.5
2764.000000	47.84	---	74.00	26.16	500.0	100.0	H	296.0	-1.5

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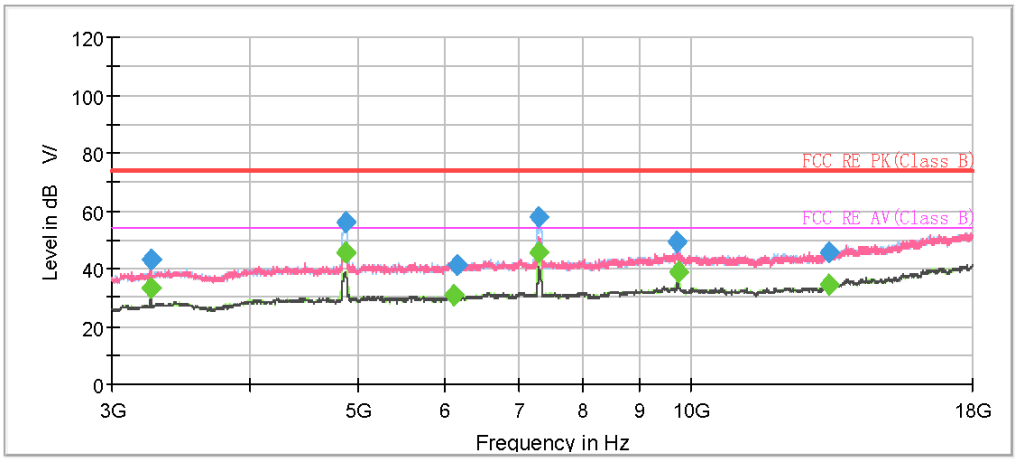

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	33.48	54.00	20.52	500.0	200.0	H	79.0	-9.7
3249.375000	42.88	---	74.00	31.12	500.0	200.0	H	23.0	-9.7
4876.875000	---	45.45	54.00	8.55	500.0	100.0	H	248.0	-5.8
4876.875000	55.78	---	74.00	18.22	500.0	200.0	H	245.0	-5.8
6114.375000	---	30.52	54.00	23.48	500.0	200.0	H	113.0	-4.6
6159.375000	41.03	---	74.00	32.97	500.0	100.0	V	272.0	-4.5
7303.125000	57.57	---	74.00	16.43	500.0	100.0	H	6.0	-3.0
7303.125000	---	45.50	54.00	8.50	500.0	100.0	H	6.0	-3.0
9721.875000	49.03	---	74.00	24.97	500.0	100.0	H	0.0	-0.7
9751.875000	---	38.79	54.00	15.21	500.0	100.0	H	0.0	-0.5
13340.625000	---	34.42	54.00	19.58	500.0	100.0	V	67.0	2.3
13342.500000	45.53	---	74.00	28.47	500.0	100.0	V	29.0	2.3

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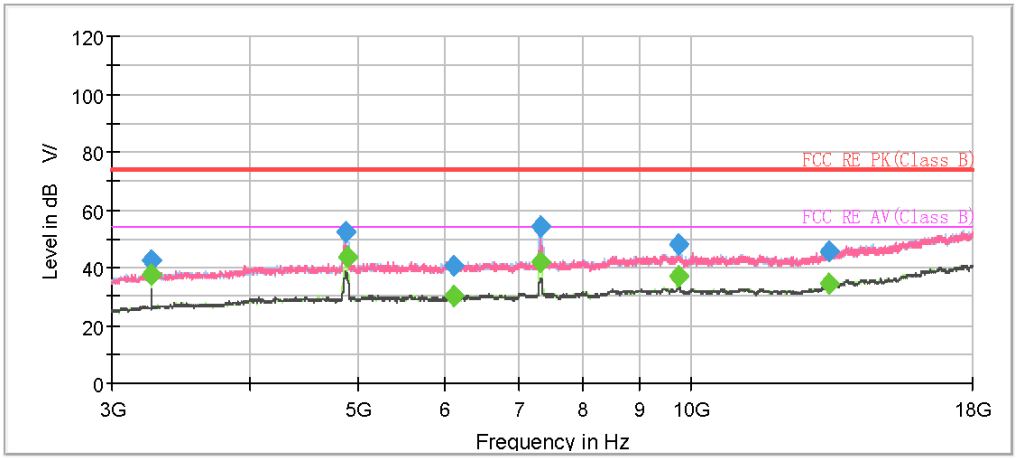
802.11n (HT40) CH7



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)
3255.000000	42.58	---	74.00	31.42	500.0	100.0	H	107.0	-9.6
3255.000000	---	37.31	54.00	16.69	500.0	100.0	H	107.0	-9.6
4886.250000	52.50	---	74.00	21.50	500.0	100.0	H	344.0	-5.6
4890.000000	---	43.57	54.00	10.43	500.0	100.0	H	344.0	-5.6
6110.625000	40.71	---	74.00	33.29	500.0	100.0	H	164.0	-4.6
6118.125000	---	30.11	54.00	23.89	500.0	100.0	H	240.0	-4.6
7323.750000	---	41.56	54.00	12.44	500.0	100.0	H	107.0	-3.0
7329.375000	54.23	---	74.00	19.77	500.0	200.0	H	121.0	-3.0
9759.375000	48.23	---	74.00	25.77	500.0	100.0	H	93.0	-0.5
9766.875000	---	36.95	54.00	17.05	500.0	100.0	H	98.0	-0.5
13342.500000	---	34.34	54.00	19.66	500.0	200.0	V	227.0	2.3
13351.875000	45.71	---	74.00	28.29	500.0	200.0	V	246.0	2.4

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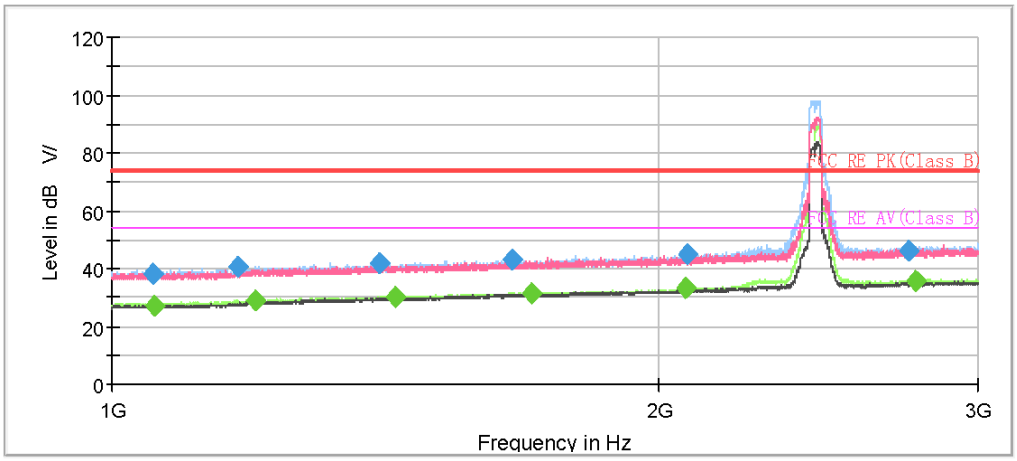

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1052.750000	38.42	---	74.00	35.58	500.0	100.0	H	95.0	-10.5
1054.250000	---	27.04	54.00	26.96	500.0	200.0	H	161.0	-10.5
1173.750000	40.32	---	74.00	33.68	500.0	200.0	H	28.0	-9.3
1199.000000	---	29.07	54.00	24.93	500.0	100.0	H	313.0	-8.8
1405.250000	41.77	---	74.00	32.23	500.0	100.0	H	318.0	-7.6
1431.750000	---	30.02	54.00	23.98	500.0	100.0	H	234.0	-7.4
1661.000000	43.03	---	74.00	30.97	500.0	200.0	H	11.0	-6.1
1703.500000	---	31.41	54.00	22.59	500.0	100.0	H	313.0	-6.0
2072.500000	---	32.96	54.00	21.04	500.0	100.0	H	268.0	-4.0
2075.000000	44.77	---	74.00	29.23	500.0	200.0	H	20.0	-4.0
2750.000000	46.43	---	74.00	27.57	500.0	200.0	H	104.0	-1.5
2773.250000	---	35.68	54.00	18.32	500.0	100.0	H	272.0	-1.4

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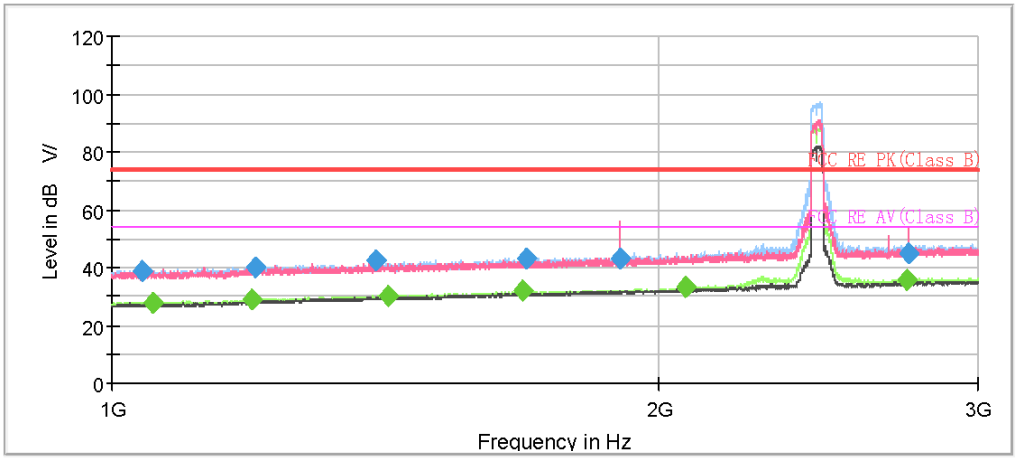
802.11n (HT40) CH8



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)
1040.000000	38.92	---	74.00	35.08	500.0	100.0	H	307.0	-10.5
1052.750000	---	27.46	54.00	26.54	500.0	100.0	H	329.0	-10.5
1193.750000	---	28.93	54.00	25.07	500.0	100.0	H	337.0	-8.9
1199.000000	40.26	---	74.00	33.74	500.0	200.0	H	0.0	-8.8
1399.000000	42.36	---	74.00	31.64	500.0	100.0	V	71.0	-7.6
1419.500000	---	30.31	54.00	23.69	500.0	100.0	H	350.0	-7.4
1682.250000	---	31.73	54.00	22.27	500.0	100.0	H	169.0	-6.0
1693.250000	43.17	---	74.00	30.83	500.0	100.0	H	324.0	-6.0
1904.250000	43.00	---	74.00	31.00	500.0	100.0	H	320.0	-5.0
2072.000000	---	33.00	54.00	21.00	500.0	200.0	H	52.0	-4.0
2742.250000	---	35.84	54.00	18.16	500.0	200.0	H	126.0	-1.5
2748.750000	45.22	---	74.00	28.78	500.0	200.0	V	315.0	-1.5

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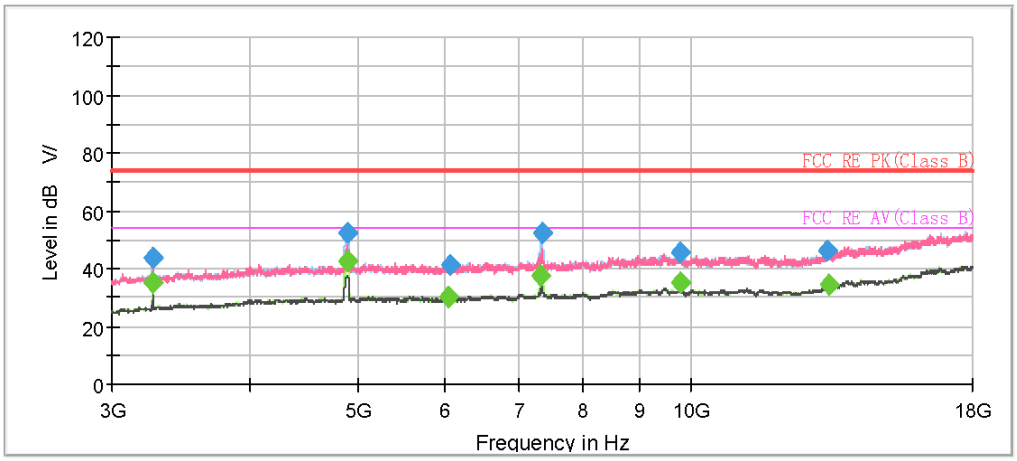

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3262.500000	---	35.00	54.00	19.00	500.0	200.0	H	175.0	-9.5
3262.500000	43.60	---	74.00	30.40	500.0	100.0	H	137.0	-9.5
4891.875000	---	42.52	54.00	11.48	500.0	100.0	H	344.0	-5.6
4895.625000	52.07	---	74.00	21.93	500.0	100.0	H	339.0	-5.5
6037.500000	---	30.33	54.00	23.67	500.0	200.0	V	53.0	-4.2
6073.125000	41.25	---	74.00	32.75	500.0	200.0	H	33.0	-4.3
7333.125000	---	37.67	54.00	16.33	500.0	100.0	H	115.0	-3.0
7344.375000	52.29	---	74.00	21.71	500.0	200.0	H	103.0	-3.0
9787.500000	45.35	---	74.00	28.65	500.0	100.0	H	100.0	-0.5
9787.500000	---	35.38	54.00	18.62	500.0	100.0	H	100.0	-0.5
13312.500000	45.93	---	74.00	28.07	500.0	100.0	V	162.0	2.3
13346.250000	---	34.17	54.00	19.83	500.0	100.0	V	316.0	2.4

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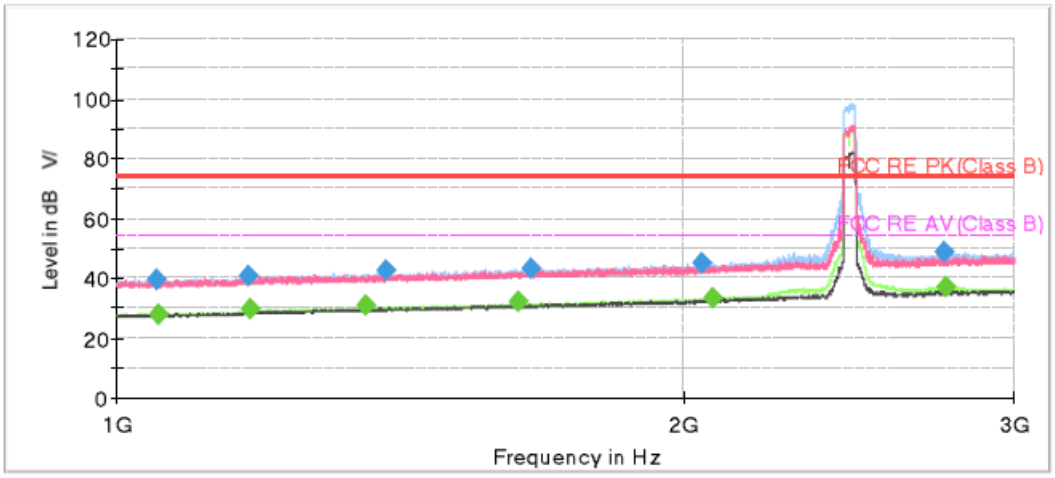
802.11n (HT40) CH9



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)
1051.250000	39.63	---	74.00	34.37	500.0	100.0	H	59.0	-10.5
1052.750000	---	27.68	54.00	26.32	500.0	200.0	H	298.0	-10.5
1176.750000	40.66	---	74.00	33.34	500.0	200.0	H	263.0	-9.3
1178.250000	---	29.38	54.00	24.62	500.0	100.0	H	267.0	-9.2
1356.250000	---	30.66	54.00	23.34	500.0	100.0	H	46.0	-7.8
1390.750000	42.28	---	74.00	31.72	500.0	200.0	V	221.0	-7.6
1635.000000	---	31.82	54.00	22.18	500.0	100.0	H	221.0	-6.2
1662.750000	43.13	---	74.00	30.87	500.0	100.0	H	77.0	-6.1
2047.000000	44.90	---	74.00	29.10	500.0	200.0	H	331.0	-4.2
2075.500000	---	33.38	54.00	20.62	500.0	100.0	H	59.0	-4.0
2752.250000	48.31	---	74.00	25.69	500.0	200.0	H	0.0	-1.5
2761.000000	---	37.06	54.00	16.94	500.0	200.0	H	356.0	-1.5

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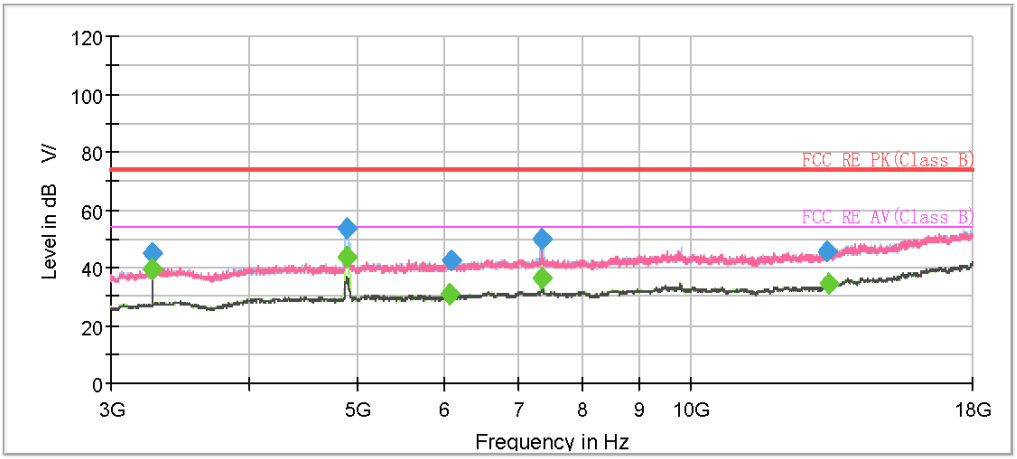

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3268.125000	---	39.23	54.00	14.77	500.0	100.0	H	20.0	-9.5
3268.125000	45.16	---	74.00	28.84	500.0	100.0	H	20.0	-9.5
4903.125000	53.31	---	74.00	20.69	500.0	100.0	H	242.0	-5.4
4905.000000	---	43.91	54.00	10.09	500.0	100.0	H	251.0	-5.4
6063.750000	---	30.81	54.00	23.19	500.0	100.0	H	157.0	-4.2
6080.625000	42.46	---	74.00	31.54	500.0	200.0	H	72.0	-4.3
7344.375000	49.79	---	74.00	24.21	500.0	100.0	H	10.0	-3.0
7344.375000	---	36.03	54.00	17.97	500.0	100.0	H	10.0	-3.0
7359.375000	49.78	---	74.00	24.22	500.0	100.0	H	354.0	-2.9
7361.250000	---	36.37	54.00	17.63	500.0	100.0	H	3.0	-2.9
13320.000000	45.49	---	74.00	28.51	500.0	100.0	V	147.0	2.3
13344.375000	---	34.55	54.00	19.45	500.0	100.0	H	208.0	2.3

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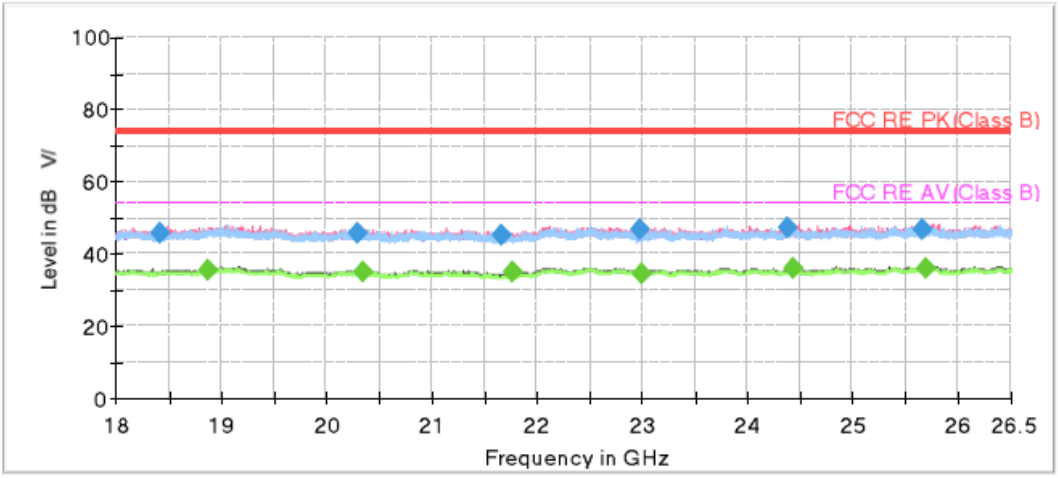
During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11b, Channel 6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



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)
18425.000000	45.88	---	74.00	28.12	500.0	100.0	V	213.0	-4.2
18874.437500	---	35.54	54.00	18.46	500.0	100.0	V	235.0	-3.8
20293.937500	45.87	---	74.00	28.13	500.0	200.0	V	37.0	-3.9
20349.187500	---	35.04	54.00	18.96	500.0	100.0	V	359.0	-3.8
21661.375000	45.20	---	74.00	28.80	500.0	100.0	V	355.0	-3.4
21768.687500	---	34.76	54.00	19.24	500.0	200.0	V	41.0	-3.2
22973.562500	46.62	---	74.00	27.38	500.0	100.0	V	340.0	-2.5
23002.250000	---	34.57	54.00	19.43	500.0	200.0	V	49.0	-2.5
24385.625000	47.03	---	74.00	26.97	500.0	200.0	V	209.0	-1.9
24430.250000	---	35.92	54.00	18.08	500.0	100.0	V	323.0	-1.9
25659.562500	46.75	---	74.00	27.25	500.0	100.0	V	226.0	-1.0
25690.375000	---	36.05	54.00	17.95	500.0	200.0	V	119.0	-1.0

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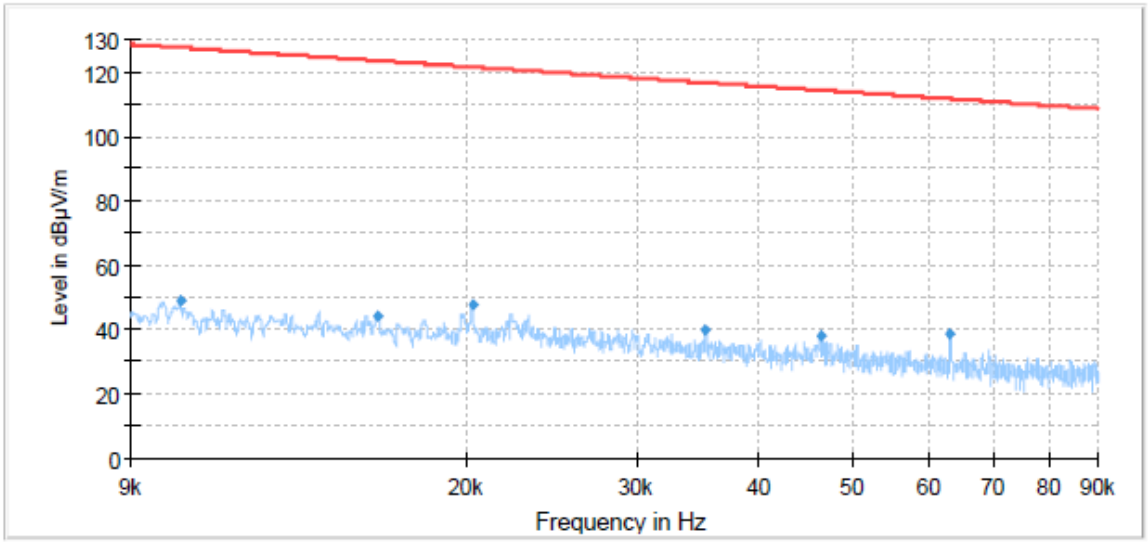
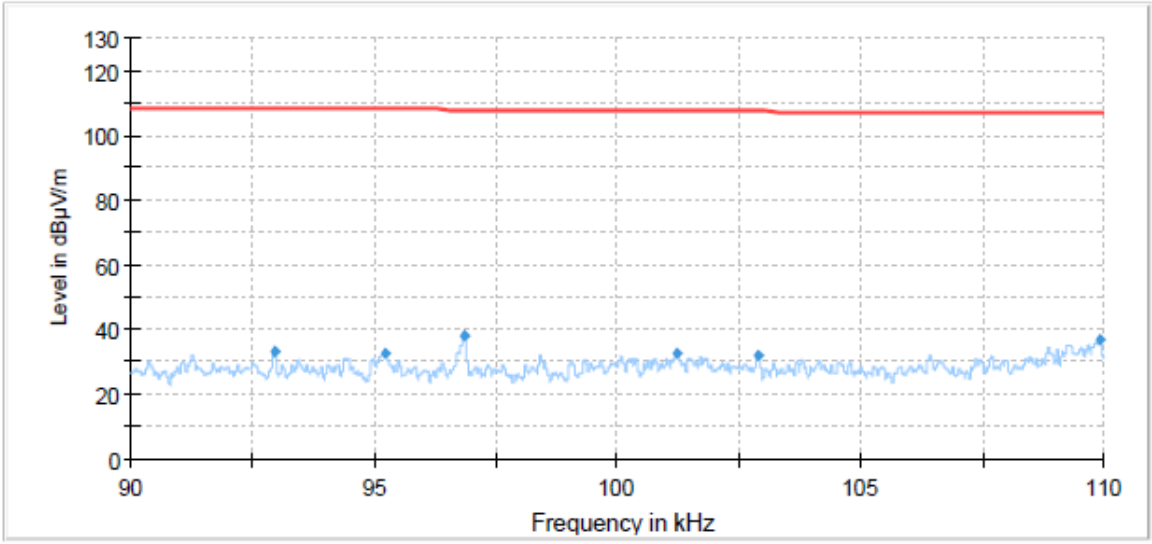
Bluetooth LE

During the test, the Radiates Emission from 9KH MHz to 1GHz was performed in all modes with all channels, Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol (dB μV) in the test plot below means (dBμV/m)



Radiates Emission from 9KHz to 90KHz



Radiates Emission from 90KHz to 110KHz

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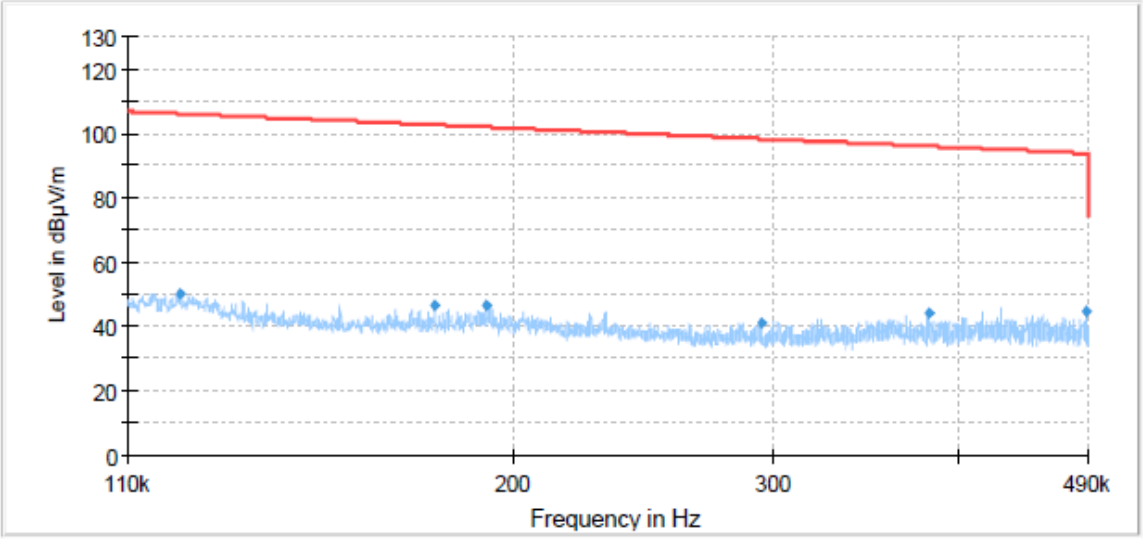
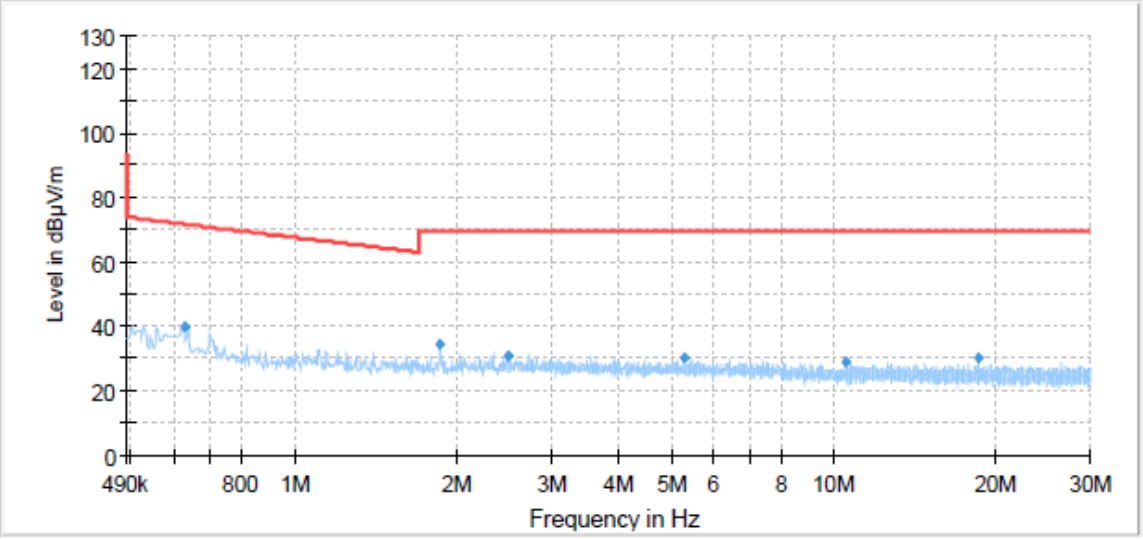


Radiates Emission from 110KHz to 490KHz



Radiates Emission from 490KHz to 30MHz

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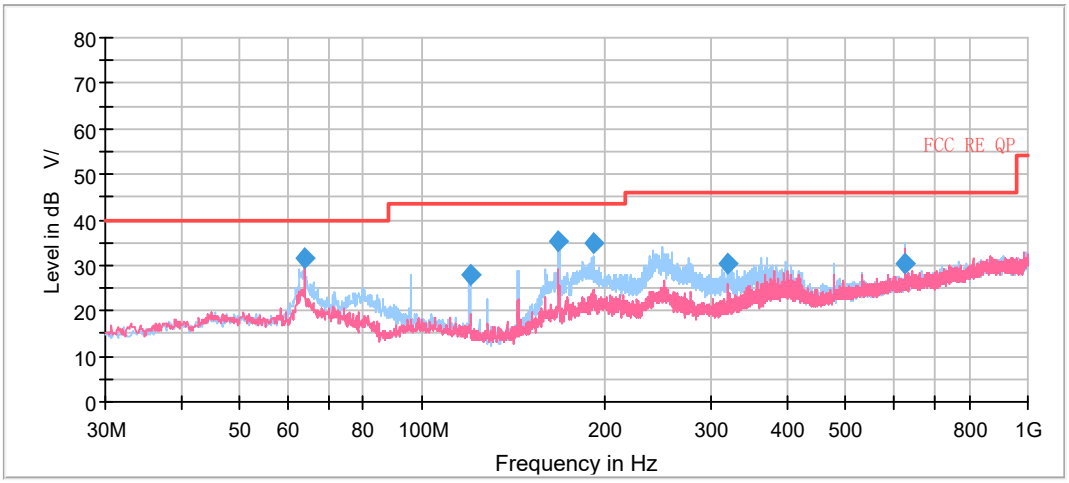

Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
63.830000	31.67	40.00	8.33	225.0	H	8.0	18.5
120.007500	27.83	43.50	15.67	175.0	H	156.0	17.2
168.021250	35.19	43.50	8.31	175.0	H	116.0	16.4
192.030000	35.01	43.50	8.49	175.0	H	114.0	18.7
319.990000	30.20	46.00	15.80	100.0	H	275.0	21.4
625.093750	30.33	46.00	15.67	110.0	H	127.0	27.7

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

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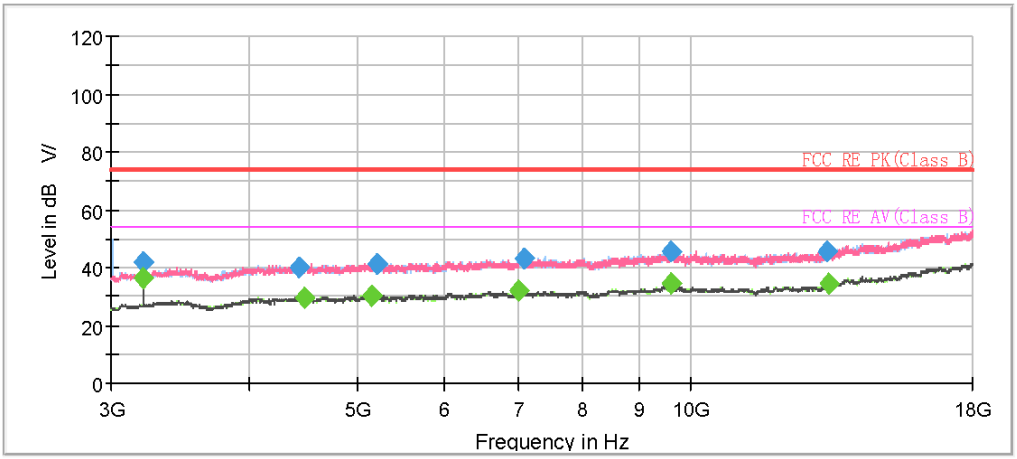
Bluetooth LE-Channel 0



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3204.375000	---	36.14	54.00	17.86	500.0	100.0	V	101.0	-9.9
3204.375000	41.86	---	74.00	32.14	500.0	100.0	V	101.0	-9.9
4441.875000	40.01	---	74.00	33.99	500.0	200.0	V	35.0	-6.5
4488.750000	---	29.44	54.00	24.56	500.0	200.0	V	358.0	-6.2
5148.750000	---	30.09	54.00	23.91	500.0	200.0	V	294.0	-5.0
5214.375000	41.26	---	74.00	32.74	500.0	200.0	V	344.0	-4.7
7003.125000	---	31.81	54.00	22.19	500.0	200.0	H	42.0	-3.0
7072.500000	43.14	---	74.00	30.86	500.0	100.0	H	332.0	-3.0
9615.000000	45.34	---	74.00	28.66	500.0	100.0	H	13.0	-0.7
9615.000000	---	34.69	54.00	19.31	500.0	100.0	H	13.0	-0.7
13291.875000	45.66	---	74.00	28.34	500.0	200.0	H	282.0	2.3
13346.250000	---	34.46	54.00	19.54	500.0	100.0	V	58.0	2.4

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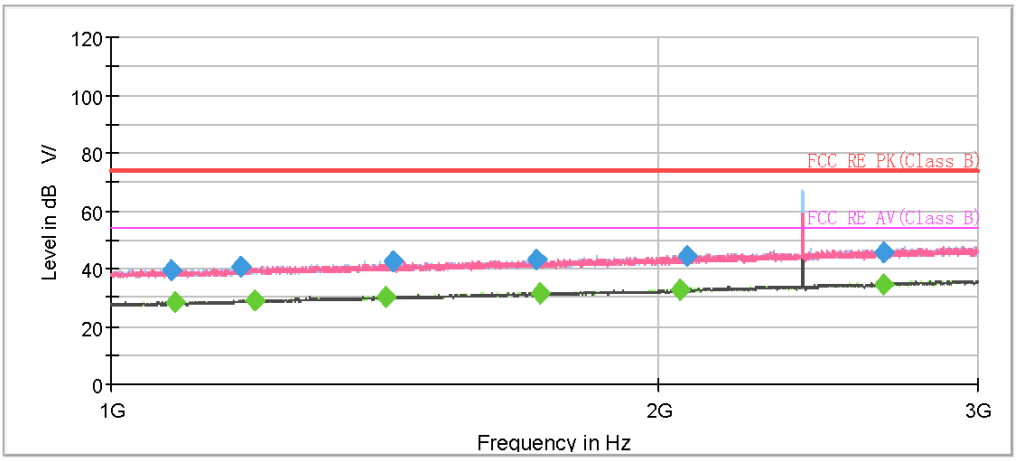

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1078.500000	39.26	---	74.00	34.74	500.0	100.0	H	258.0	-10.3
1083.500000	---	28.22	54.00	25.78	500.0	100.0	H	43.0	-10.2
1177.750000	40.69	---	74.00	33.31	500.0	100.0	H	196.0	-9.3
1200.750000	---	29.17	54.00	24.83	500.0	100.0	H	1.0	-8.8
1415.750000	---	30.27	54.00	23.73	500.0	100.0	H	130.0	-7.5
1428.000000	42.73	---	74.00	31.27	500.0	200.0	V	297.0	-7.4
1713.500000	43.15	---	74.00	30.85	500.0	200.0	V	182.0	-5.9
1721.250000	---	31.59	54.00	22.41	500.0	100.0	H	43.0	-5.9
2058.250000	---	32.88	54.00	21.12	500.0	100.0	H	67.0	-4.1
2073.750000	44.28	---	74.00	29.72	500.0	100.0	H	50.0	-4.0
2665.500000	45.47	---	74.00	28.53	500.0	100.0	V	49.0	-1.9
2666.000000	---	34.56	54.00	19.44	500.0	100.0	H	238.0	-1.9

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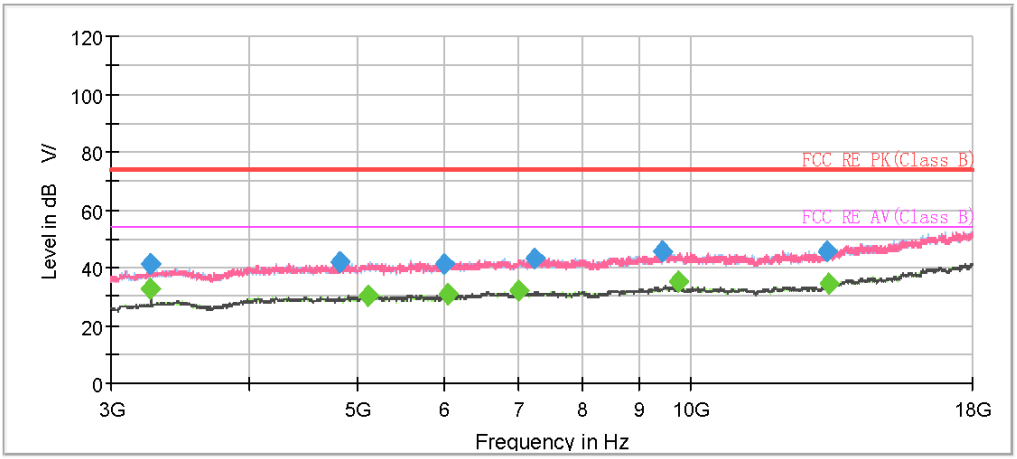
Bluetooth LE-Channel 19



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3256.875000	---	32.71	54.00	21.29	500.0	200.0	H	90.0	-9.6
3258.750000	41.45	---	74.00	32.55	500.0	100.0	H	148.0	-9.6
4818.750000	41.64	---	74.00	32.36	500.0	100.0	V	196.0	-6.1
5122.500000	---	30.27	54.00	23.73	500.0	200.0	H	0.0	-4.9
6001.875000	41.34	---	74.00	32.66	500.0	200.0	H	28.0	-4.5
6054.375000	---	31.00	54.00	23.00	500.0	200.0	V	0.0	-4.1
7006.875000	---	31.69	54.00	22.31	500.0	100.0	H	274.0	-3.0
7245.000000	42.91	---	74.00	31.09	500.0	100.0	V	121.0	-2.9
9442.500000	45.34	---	74.00	28.66	500.0	100.0	H	171.0	-0.4
9776.250000	---	34.79	54.00	19.21	500.0	100.0	V	74.0	-0.5
13316.250000	45.61	---	74.00	28.39	500.0	100.0	V	183.0	2.3
13344.375000	---	34.33	54.00	19.67	500.0	200.0	H	193.0	2.3

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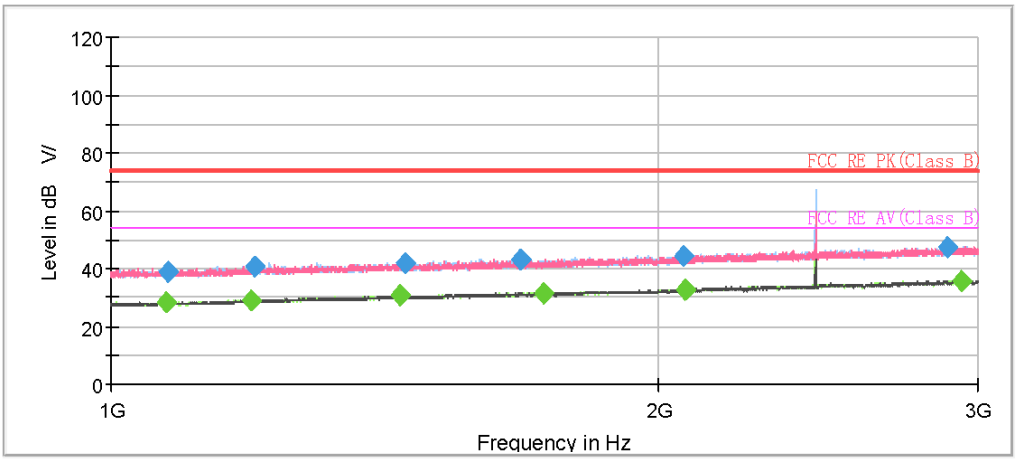

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1073.250000	---	28.19	54.00	25.81	500.0	200.0	V	148.0	-10.3
1074.750000	39.05	---	74.00	34.95	500.0	100.0	H	346.0	-10.3
1195.500000	---	29.14	54.00	24.86	500.0	100.0	H	106.0	-8.9
1199.250000	40.75	---	74.00	33.25	500.0	200.0	H	299.0	-8.8
1441.000000	---	30.47	54.00	23.53	500.0	100.0	H	252.0	-7.3
1453.000000	41.58	---	74.00	32.42	500.0	100.0	V	174.0	-7.2
1680.500000	42.95	---	74.00	31.05	500.0	200.0	V	27.0	-6.0
1730.750000	---	31.54	54.00	22.46	500.0	200.0	H	320.0	-5.8
2064.750000	44.44	---	74.00	29.56	500.0	200.0	H	320.0	-4.1
2069.250000	---	32.84	54.00	21.16	500.0	100.0	V	270.0	-4.0
2885.000000	47.65	---	74.00	26.35	500.0	200.0	H	353.0	-1.1
2941.000000	---	35.94	54.00	18.06	500.0	200.0	H	290.0	-0.9

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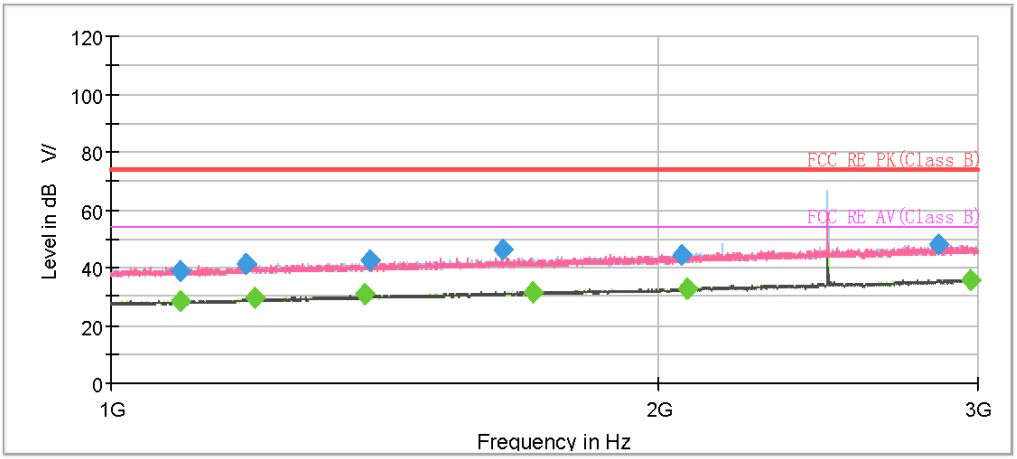
Bluetooth LE-Channel 39



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)
1092.000000	38.99	---	74.00	35.01	500.0	200.0	H	0.0	-10.2
1092.500000	---	28.11	54.00	25.89	500.0	100.0	H	24.0	-10.2
1187.250000	41.52	---	74.00	32.48	500.0	200.0	V	158.0	-9.1
1198.750000	---	29.33	54.00	24.67	500.0	100.0	H	37.0	-8.8
1380.000000	---	30.47	54.00	23.53	500.0	100.0	V	258.0	-7.7
1387.500000	42.17	---	74.00	31.83	500.0	200.0	V	179.0	-7.7
1643.750000	46.36	---	74.00	27.64	500.0	100.0	H	268.0	-6.2
1707.500000	---	31.61	54.00	22.39	500.0	200.0	H	340.0	-5.9
2062.250000	44.56	---	74.00	29.44	500.0	100.0	V	295.0	-4.1
2073.750000	---	32.92	54.00	21.08	500.0	200.0	H	0.0	-4.0
2854.250000	47.96	---	74.00	26.04	500.0	100.0	V	225.0	-1.1
2972.000000	---	35.89	54.00	18.11	500.0	200.0	H	311.0	-0.7

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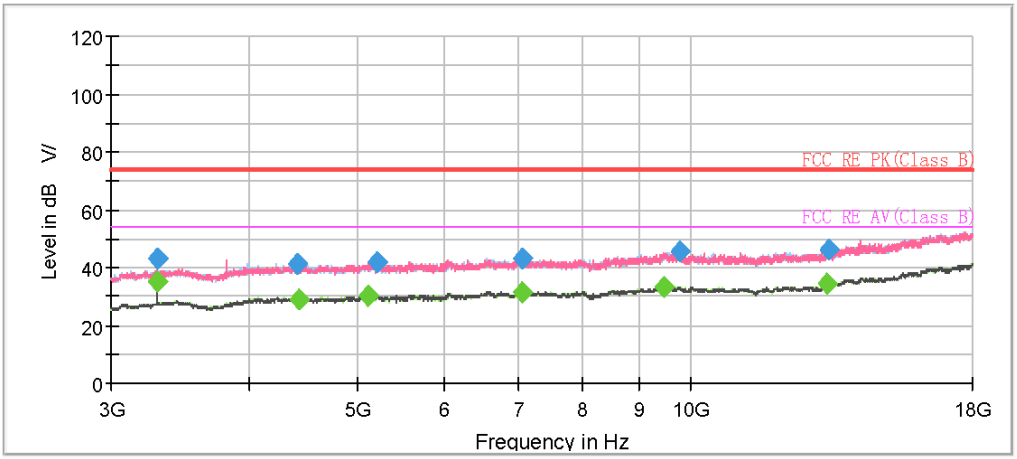

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3305.625000	---	35.29	54.00	18.71	500.0	200.0	H	89.0	-9.1
3305.625000	42.97	---	74.00	31.03	500.0	100.0	V	97.0	-9.1
4421.250000	41.47	---	74.00	32.53	500.0	100.0	V	153.0	-6.4
4426.875000	---	28.67	54.00	25.33	500.0	200.0	H	2.0	-6.5
5120.625000	---	30.31	54.00	23.69	500.0	200.0	H	193.0	-4.9
5223.750000	41.75	---	74.00	32.26	500.0	100.0	H	100.0	-4.7
7044.375000	---	31.60	54.00	22.40	500.0	100.0	H	0.0	-3.1
7068.750000	43.35	---	74.00	30.65	500.0	200.0	V	253.0	-3.0
9487.500000	---	33.48	54.00	20.52	500.0	100.0	V	300.0	0.0
9798.750000	45.45	---	74.00	28.55	500.0	100.0	H	304.0	-0.4
13303.125000	---	34.52	54.00	19.48	500.0	200.0	V	317.0	2.3
13346.250000	45.97	---	74.00	28.03	500.0	100.0	H	200.0	2.4

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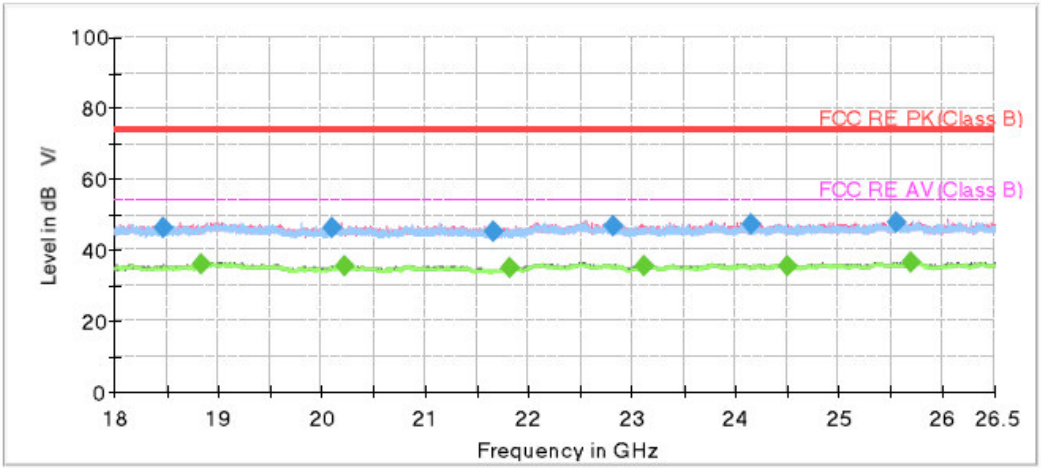
During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



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)
18470.687500	46.34	---	74.00	27.66	500.0	100.0	V	216.0	-4.2
18841.500000	---	36.03	54.00	17.97	500.0	100.0	V	326.0	-3.9
20106.937500	46.37	---	74.00	27.63	500.0	200.0	V	51.0	-4.1
20229.125000	---	35.32	54.00	18.68	500.0	100.0	V	301.0	-4.0
21657.125000	45.22	---	74.00	28.78	500.0	100.0	V	196.0	-3.4
21829.250000	---	34.67	54.00	19.33	500.0	200.0	H	215.0	-3.1
22828.000000	46.61	---	74.00	27.39	500.0	100.0	V	356.0	-2.6
23121.250000	---	35.64	54.00	18.36	500.0	100.0	V	280.0	-2.4
24144.437500	47.30	---	74.00	26.70	500.0	100.0	V	343.0	-1.9
24506.750000	---	35.52	54.00	18.48	500.0	100.0	V	334.0	-1.9
25560.750000	47.84	---	74.00	26.16	500.0	100.0	V	284.0	-1.1
25695.687500	---	36.40	54.00	17.60	500.0	100.0	V	163.0	-1.0

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5.7. Conducted Emission

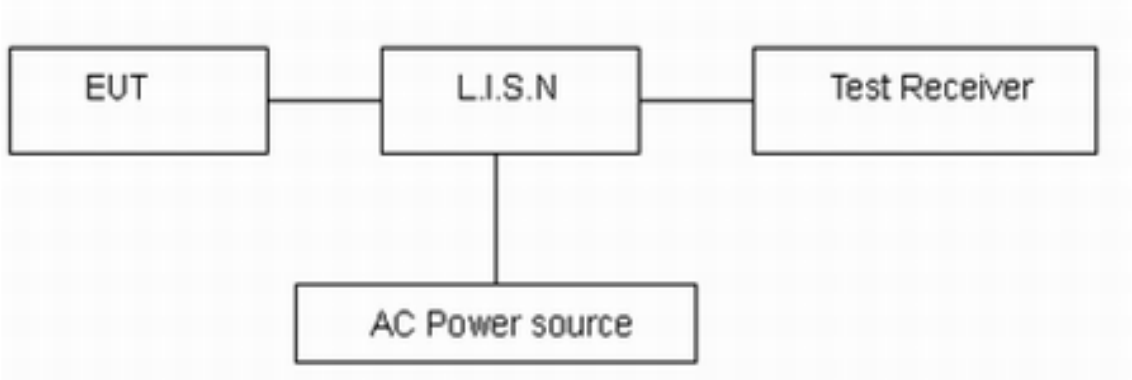
Ambient Condition

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 120V/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.

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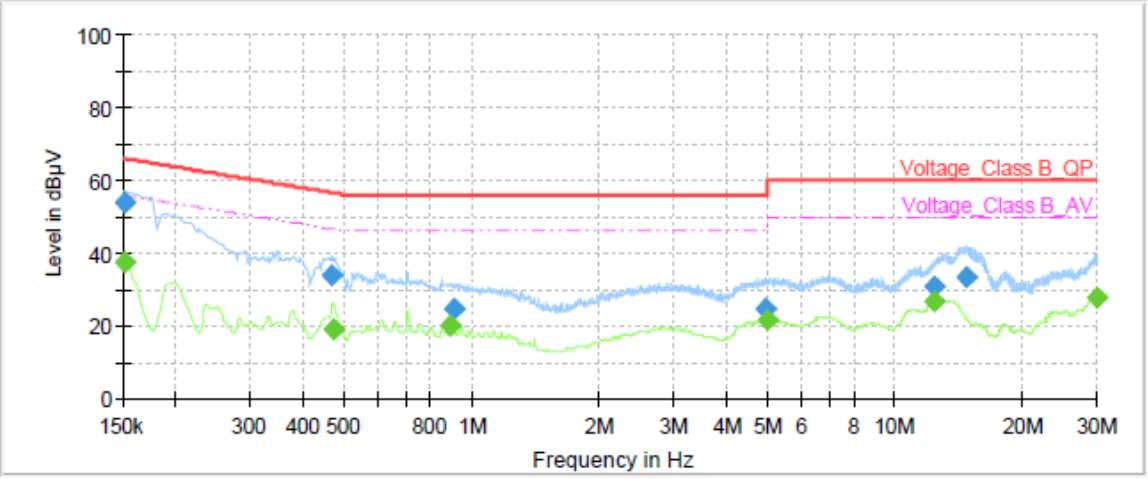
Test Results:

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, 802.11b, Channel 6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	37.25	55.88	18.63	1000.0	9.000	L1	ON	21.0
0.15	53.96	---	65.88	11.92	1000.0	9.000	L1	ON	21.0
0.47	34.01	---	56.52	22.51	1000.0	9.000	L1	ON	20.9
0.47	---	18.72	46.48	27.76	1000.0	9.000	L1	ON	20.9
0.89	---	20.09	46.00	25.91	1000.0	9.000	L1	ON	20.3
0.91	24.79	---	56.00	31.21	1000.0	9.000	L1	ON	20.3
4.93	24.79	---	56.00	31.21	1000.0	9.000	L1	ON	19.5
4.98	---	21.47	46.00	24.53	1000.0	9.000	L1	ON	19.5
12.32	30.63	---	60.00	29.37	1000.0	9.000	L1	ON	19.6
12.40	---	26.54	50.00	23.46	1000.0	9.000	L1	ON	19.6
14.76	33.44	---	60.00	26.56	1000.0	9.000	L1	ON	19.6
29.98	---	27.85	50.00	22.15	1000.0	9.000	L1	ON	19.7

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

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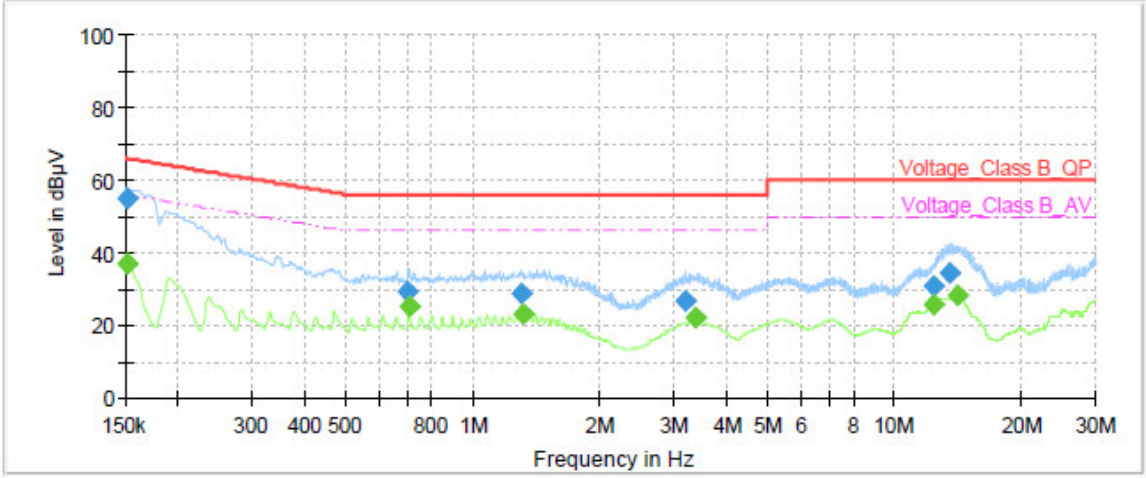

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	36.71	55.88	19.17	1000.0	9.000	N	ON	21.0
0.15	54.83	---	65.88	11.05	1000.0	9.000	N	ON	21.0
0.70	29.41	---	56.00	26.59	1000.0	9.000	N	ON	20.7
0.71	---	25.05	46.00	20.95	1000.0	9.000	N	ON	20.7
1.30	28.58	---	56.00	27.42	1000.0	9.000	N	ON	20.0
1.32	---	23.27	46.00	22.73	1000.0	9.000	N	ON	20.0
3.21	26.88	---	56.00	29.12	1000.0	9.000	N	ON	19.5
3.38	---	22.28	46.00	23.72	1000.0	9.000	N	ON	19.5
12.39	30.60	---	60.00	29.40	1000.0	9.000	N	ON	19.6
12.39	---	25.81	50.00	24.19	1000.0	9.000	N	ON	19.6
13.44	34.35	---	60.00	25.65	1000.0	9.000	N	ON	19.6
14.07	---	28.28	50.00	21.72	1000.0	9.000	N	ON	19.6

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

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6. Main Test Instruments

Date of Testing: (Original) January 8, 2023 ~ February 17, 2023

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2022-05-14	2023-05-13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2022-05-14	2023-05-13
Artificial main network	R&S	ENV216	102191	2022-12-13	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2022-05-25	2023-05-24
Software	R&S	EMC32	10.35.10	/	/
EMI Test Receiver	R&S	ESCI3	100948	2022-05-25	2023-05-24
Spectrum Analyzer	R&S	FSV40	101298	2022-05-14	2023-05-13
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2024-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01111	2022-10-25	2025-10-24
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	9.26.0	/	/

Date of Testing: (Variant) September 17, 2024 ~ September 21, 2024

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Date	Expiration Time
Radiated Emission					
EMI Test Receiver	R&S	ESR	102389	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
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
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2022-12-10	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06
Software	R&S	EMC32	10.35.10	/	/

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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

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