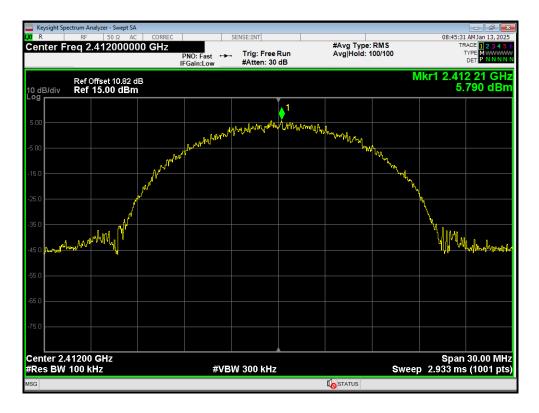
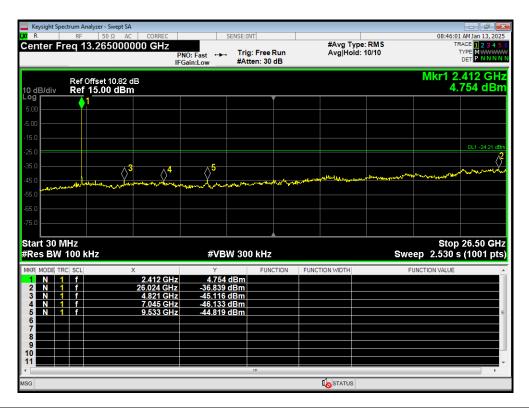


#### **Test Results:**

Tx. Spurious 802.11b 2412MHz Ref



Tx. Spurious 802.11b 2412MHz Emission

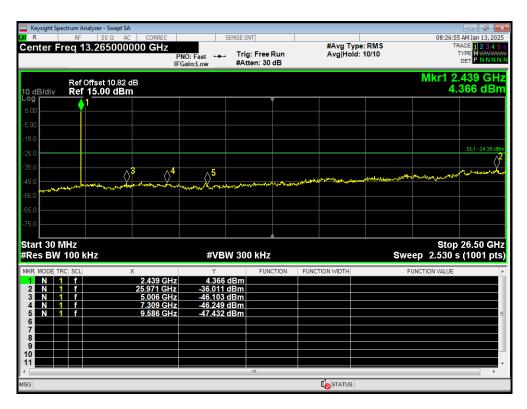




#### Tx. Spurious 802.11b 2437MHz Ref



Tx. Spurious 802.11b 2437MHz Emission

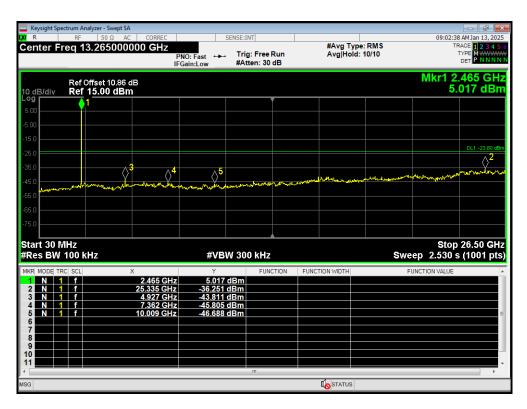




#### Tx. Spurious 802.11b 2462MHz Ref



Tx. Spurious 802.11b 2462MHz Emission

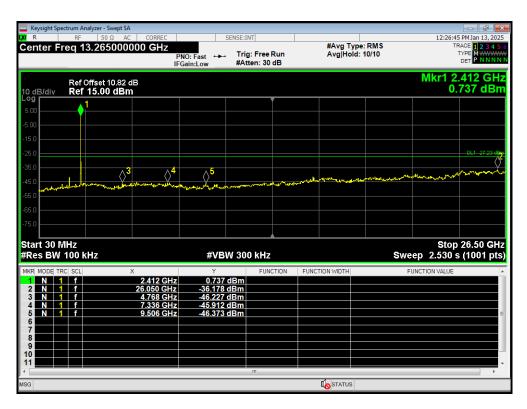




Tx. Spurious 802.11g 2412MHz Ref



Tx. Spurious 802.11g 2412MHz Emission

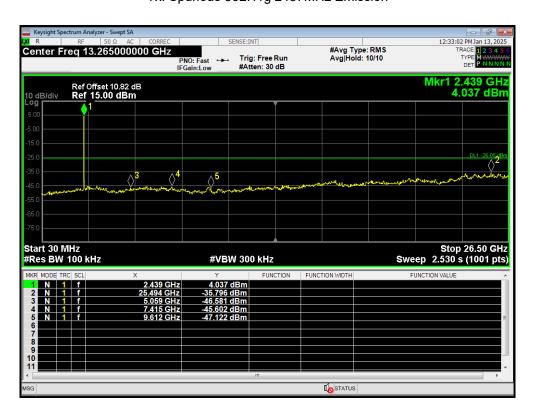




#### Tx. Spurious 802.11g 2437MHz Ref



Tx. Spurious 802.11g 2437MHz Emission

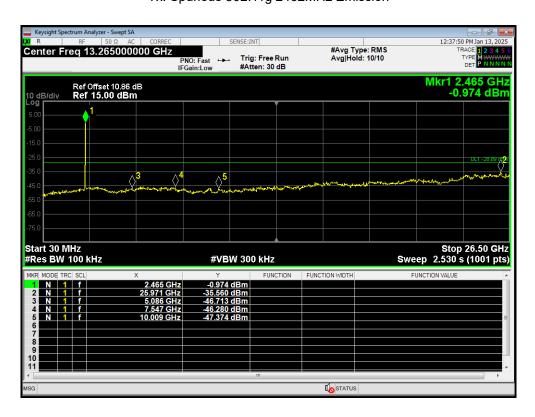




#### Tx. Spurious 802.11g 2462MHz Ref

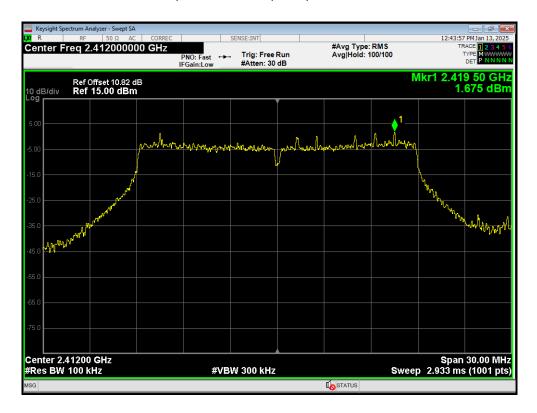


Tx. Spurious 802.11g 2462MHz Emission

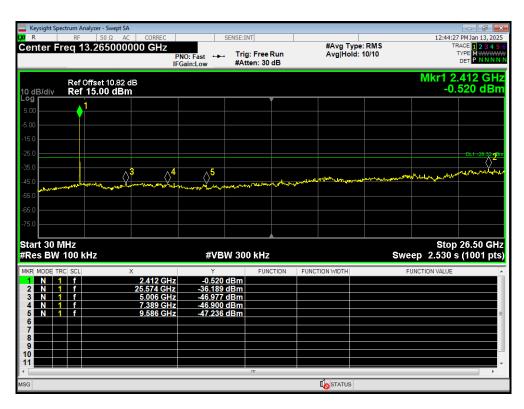




#### Tx. Spurious 802.11n(HT20) 2412MHz Ref

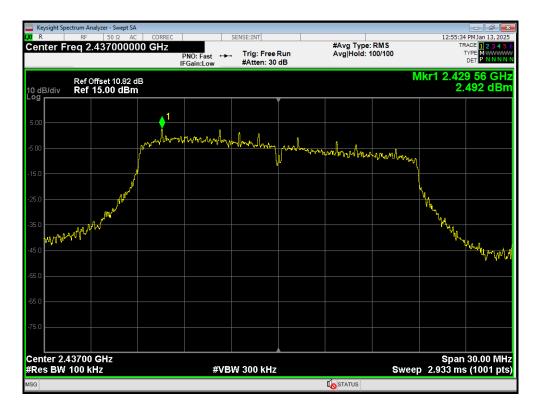


Tx. Spurious 802.11n(HT20) 2412MHz Emission

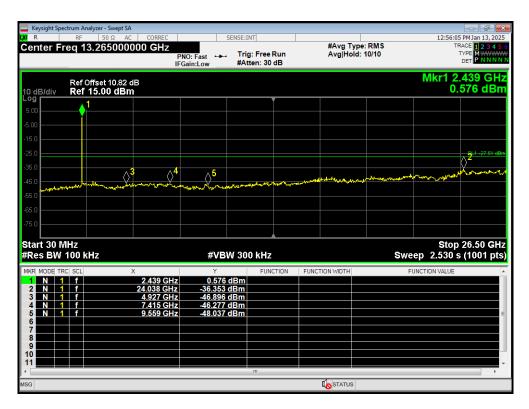




#### Tx. Spurious 802.11n(HT20) 2437MHz Ref



Tx. Spurious 802.11n(HT20) 2437MHz Emission

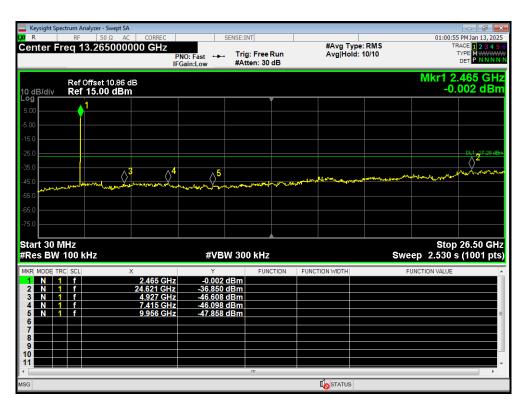




#### Tx. Spurious 802.11n(HT20) 2462MHz Ref

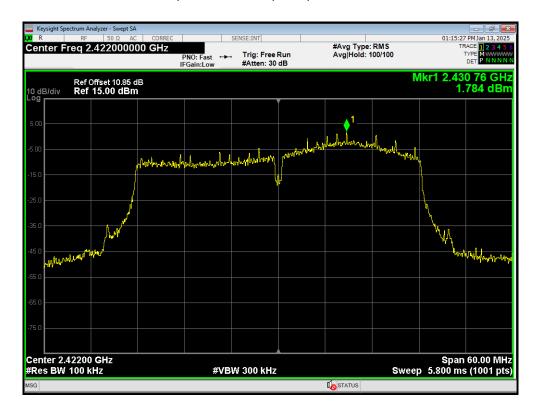


Tx. Spurious 802.11n(HT20) 2462MHz Emission

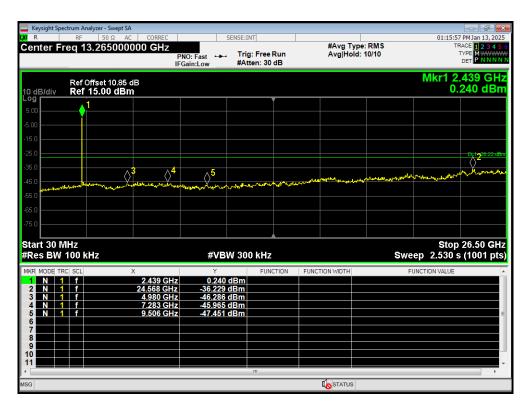




#### Tx. Spurious 802.11n(HT40) 2422MHz Ref



Tx. Spurious 802.11n(HT40) 2422MHz Emission

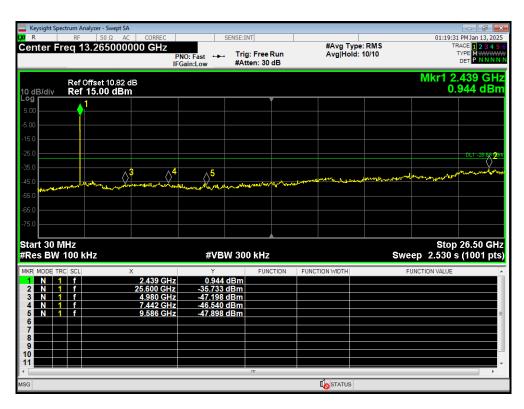




#### Tx. Spurious 802.11n(HT40) 2437MHz Ref

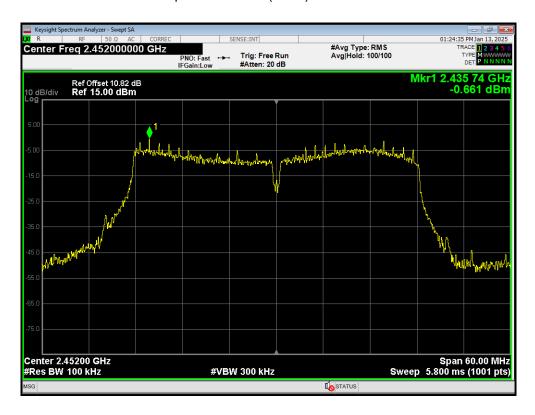


Tx. Spurious 802.11n(HT40) 2437MHz Emission

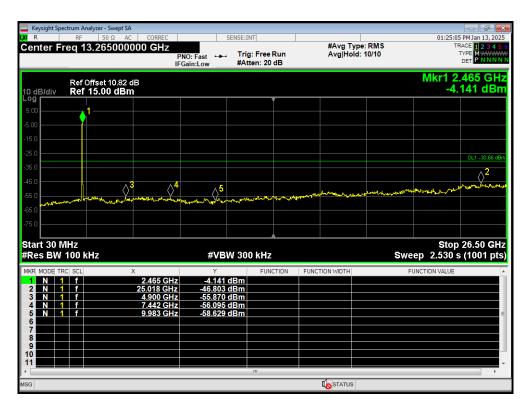




#### Tx. Spurious 802.11n(HT40) 2452MHz Ref

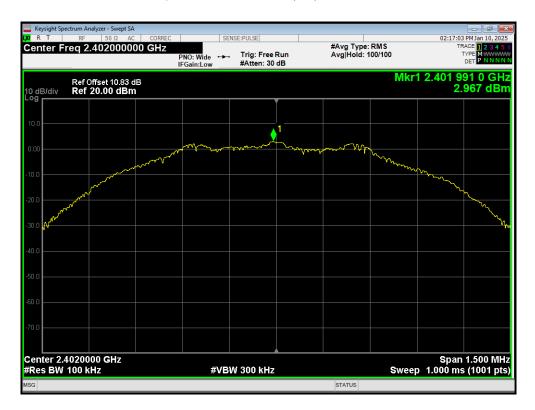


Tx. Spurious 802.11n(HT40) 2452MHz Emission

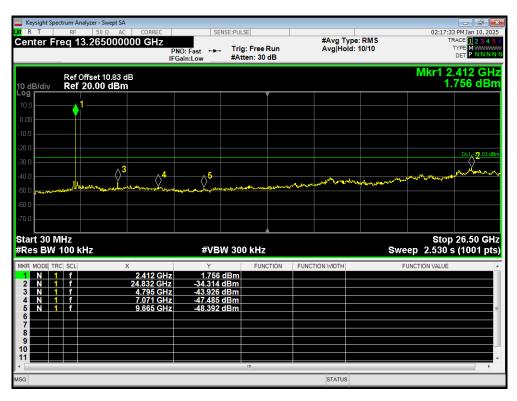




### Tx. Spurious Bluetooth LE (1M) 2402MHz Ref

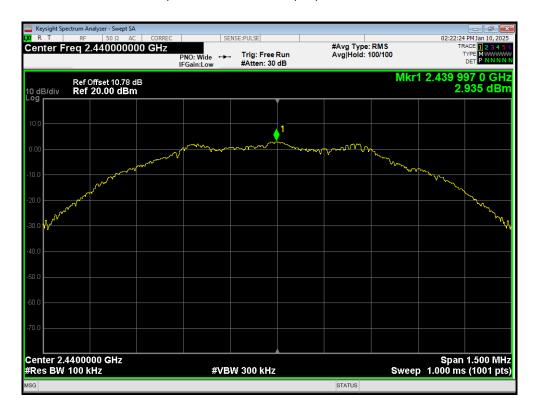


Tx. Spurious Bluetooth LE (1M) 2402MHz Emission

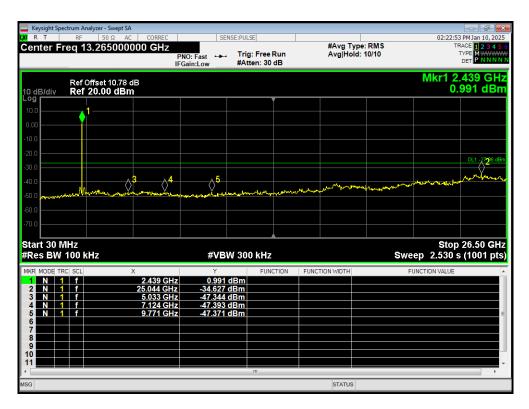


# 💸 eurofins

#### Tx. Spurious Bluetooth LE (1M) 2440MHz Ref

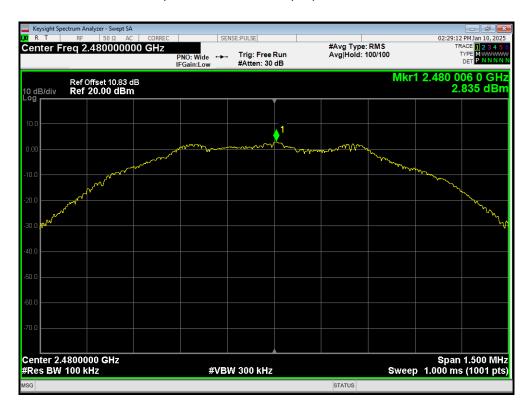


Tx. Spurious Bluetooth LE (1M) 2440MHz Emission

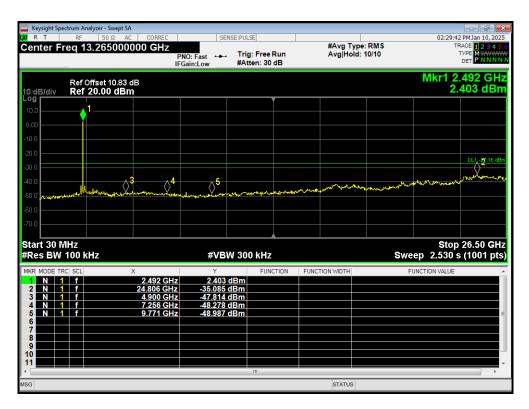


# eurofins

#### Tx. Spurious Bluetooth LE (1M) 2480MHz Ref



Tx. Spurious Bluetooth LE (1M) 2480MHz Emission

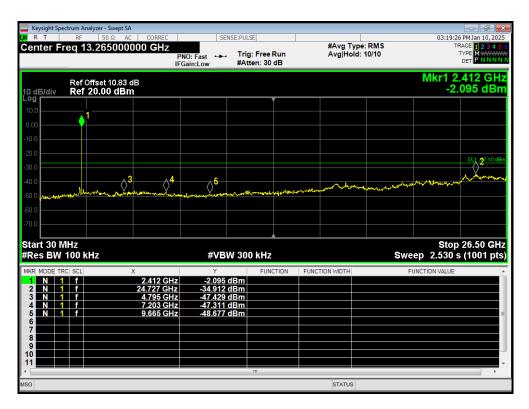




#### Tx. Spurious Bluetooth LE (2M) 2402MHz Ref

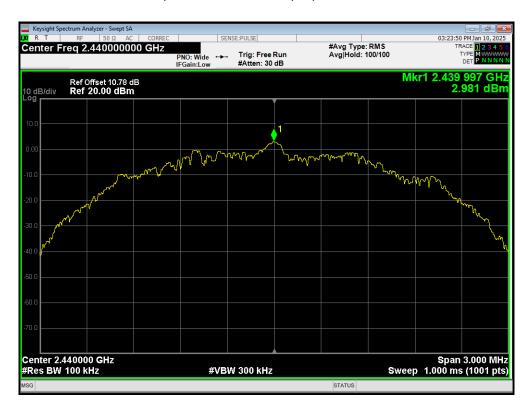


Tx. Spurious Bluetooth LE (2M) 2402MHz Emission

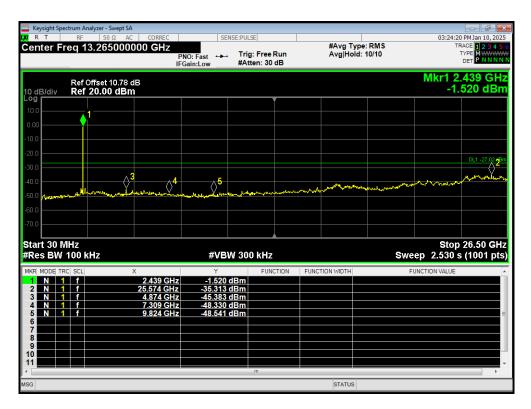


# eurofins

#### Tx. Spurious Bluetooth LE (2M) 2440MHz Ref

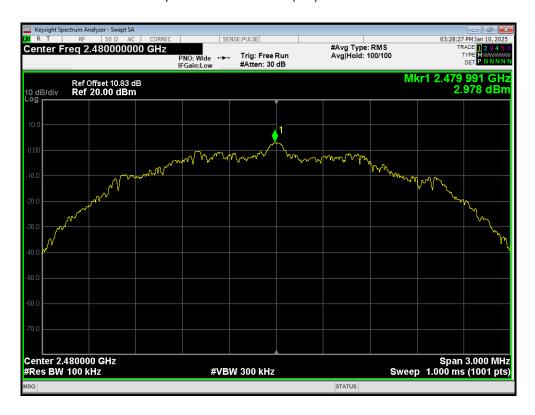


Tx. Spurious Bluetooth LE (2M) 2440MHz Emission

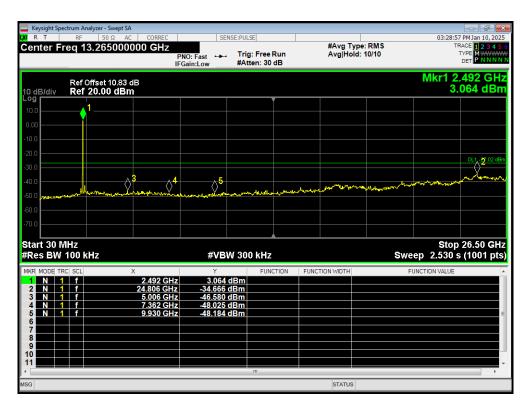




#### Tx. Spurious Bluetooth LE (2M) 2480MHz Ref



Tx. Spurious Bluetooth LE (2M) 2480MHz Emission



#### 5.6. Unwanted Emission

#### **Ambient Condition**

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

#### **Method of Measurement**

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

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

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

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

This method refer to ANSI C63.10.

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

Set the spectrum analyzer in the following:

9kHz~150 kHz

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

150 kHz~30MHz

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

Below 1GHz

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

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

Above 1GHz

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

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

Above 1GHz

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

- c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

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

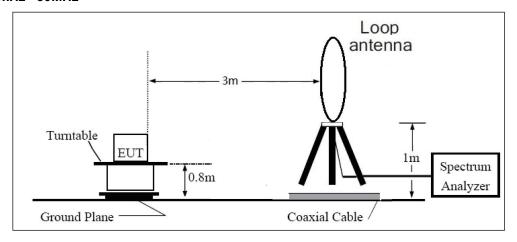
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall 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.

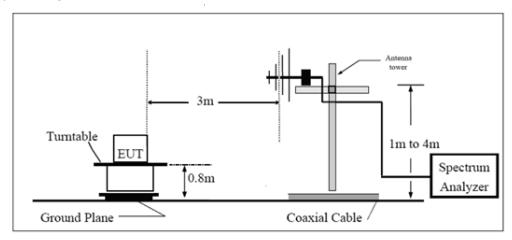


#### **Test Setup**

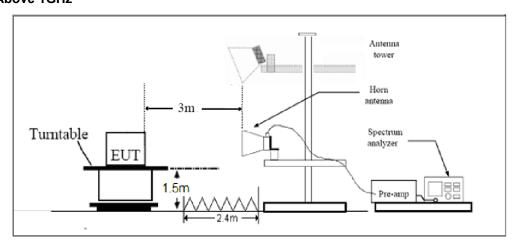
#### 9kHz~30MHz



#### 30MHz~1GHz



#### **Above 1GHz**



Note: Area side: 2.4mX3.6m

#### Limits

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

Limit in restricted band

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBµV/m)		
0.009-0.490	2400/F(kHz)	1		
0.490–1.705	24000/F(kHz)	1		
1.705–30.0	30	I		
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



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

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

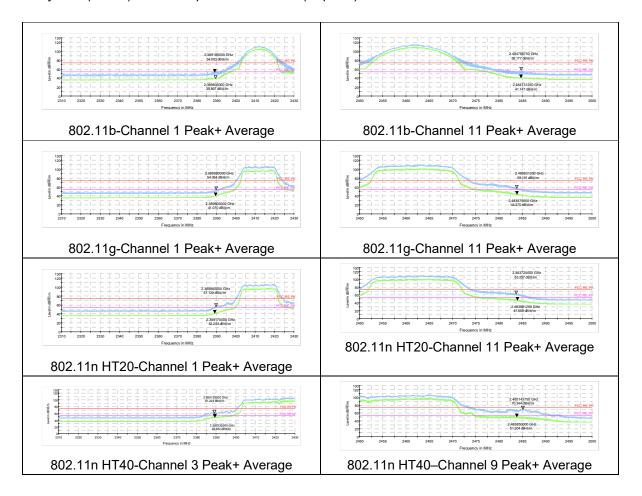


#### **Test Results:**

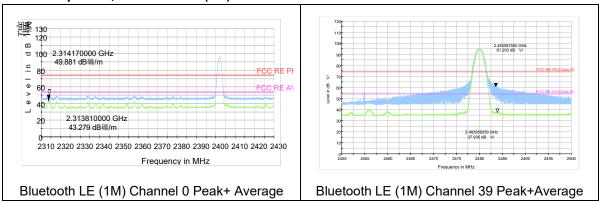
The following graphs display the maximum values of horizontal and vertical by software.

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

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



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



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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 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:

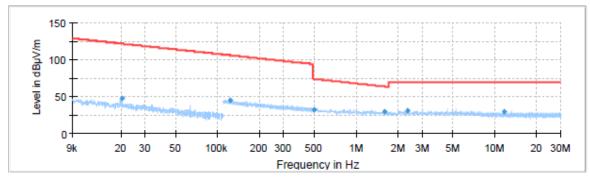
#### Remark:

- 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
- 2. Margin = Limit Quasi-Peak/ MAX Peak/ Average
- 3. A symbol ( $^{dB}$   $^{\forall \prime}$ ) in the test plot below means ( $^{dB}\mu V/m$ )
- 4. For below 1GHz



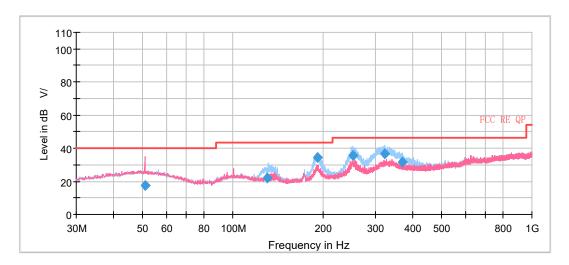
#### Wi-Fi 2.4GHz

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



Radiates Emission from 9kHz to 30MHz



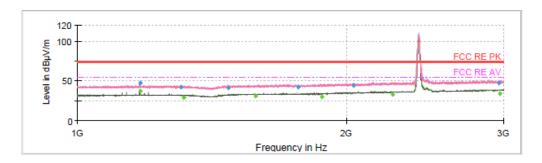


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
51.095000	17.22	40.00	22.78	109.0	V	334.0	21.1
130.843750	22.00	43.50	21.50	185.0	Н	112.0	15.8
191.511250	34.31	43.50	9.19	175.0	Н	287.0	18.7
252.457500	35.76	46.00	10.24	109.0	Н	113.0	20.5
321.566250	36.65	46.00	9.35	100.0	Н	294.0	21.5
368.125000	31.55	46.00	14.45	100.0	Н	304.0	22.5

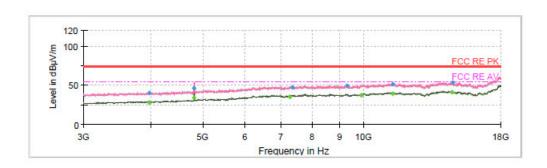
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain) 2. Margin = Limit - Quasi-Peak

#### 802.11b CH1



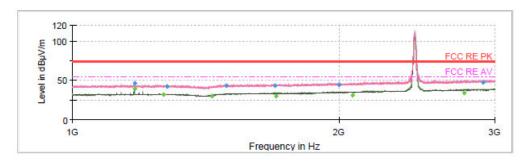
# Final Result

rillai Nes	uit								
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.50		37.28	54.00	16.72	1000.00	100.0	V	187.00	-4
1174.75	46.72		74.00	27.28	1000.00	100.0	V	204.00	-4
1307.25	42.13		74.00	31.87	1000.00	200.0	V	186.00	-4
1315.25		28.22	54.00	25.78	1000.00	200.0	Н	252.00	-4
1474.50	41.12		74.00	32.89	1000.00	100.0	Н	48.00	-3
1583.75		30.67	54.00	23.33	1000.00	200.0	V	32.00	-2
1766.00	42.54		74.00	31.46	1000.00	100.0	Н	154.00	-2
1876.50		29.94	54.00	24.06	1000.00	100.0	Н	3.00	-1
2037.75	43.93		74.00	30.07	1000.00	100.0	V	246.00	0
2254.00		32.31	54.00	21.69	1000.00	100.0	Н	10.00	1
2966.25	47.10		74.00	26.90	1000.00	199.0	V	127.00	3
2971.00		34.23	54.00	19.77	1000.00	100.0	٧	297.00	3



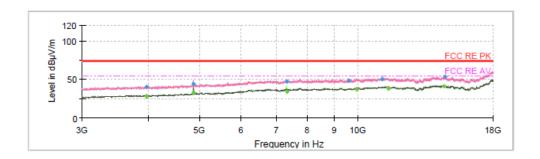
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3967.50	222	27.51	54.00	26.49	1000.00	200.0	Н	277.00	-3
3971.25	40.26		74.00	33.74	1000.00	200.0	Н	332.00	-3
4822.50	46.25		74.00	27.75	1000.00	200.0	٧	67.00	-2
4822.50		33.65	54.00	20.35	1000.00	101.0	V	96.00	-2
7273.13		34.66	54.00	19.34	1000.00	200.0	Н	23.00	6
7348.13	47.20		74.00	26.80	1000.00	200.0	٧	85.00	6
9292.50	48.83	2005	74.00	25.17	1000.00	101.0	٧	350.00	7
9888.75	1200	36.45	54.00	17.55	1000.00	100.0	Н	177.00	7
11291.25	50.84		74.00	23.16	1000.00	200.0	٧	12.00	9
11313.75		38.68	54.00	15.32	1000.00	101.0	V	181.00	9
14580.00		40.70	54.00	13.30	1000.00	200.0	Н	0.00	11
14619.38	52.83		74.00	21.17	1000.00	200.0	Н	0.00	10

#### 802.11b CH6



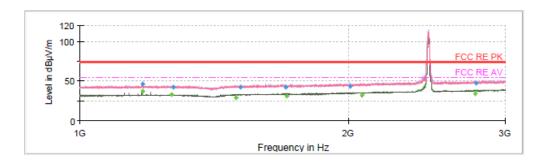
# Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1174.75	45.98		74.00	28.02	1000.00	101.0	V	197.00	-4
1174.75		39.00	54.00	15.00	1000.00	101.0	V	197.00	-4
1267.00		32.02	54.00	21.98	1000.00	200.0	V	190.00	-4
1278.00	41.81		74.00	32.19	1000.00	200.0	Н	223.00	-4
1438.50		29.96	54.00	24.04	1000.00	101.0	V	122.00	-3
1492.75	42.68		74.00	31.32	1000.00	200.0	٧	13.00	-3
1695.50	42.59		74.00	31.41	1000.00	200.0	Н	215.00	-2
1696.50		29.91	54.00	24.09	1000.00	200.0	Н	353.00	-2
2000.75	43.86		74.00	30.14	1000.00	200.0	V	121.00	0
2073.75		30.88	54.00	23.12	1000.00	101.0	V	0.00	0
2771.50		33.91	54.00	20.09	1000.00	200.0	Н	98.00	3
2912.00	46.95		74.00	27.05	1000.00	200.0	V	45.00	3



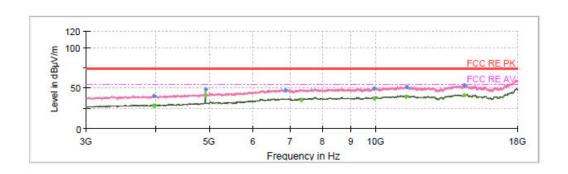
I IIIai IVes	uit								
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
				, ,	(ms)				
3967.50	40.07		74.00	33.93	1000.00	200.0	٧	229.00	-3
3967.50		27.50	54.00	26.50	1000.00	100.0	Н	278.00	-3
4873.13	44.47		74.00	29.53	1000.00	200.0	٧	61.00	-1
4873.13		32.57	54.00	21.43	1000.00	200.0	٧	61.00	-1
7310.63		34.27	54.00	19.73	1000.00	100.0	Н	32.00	6
7312.50	46.75		74.00	27.25	1000.00	100.0	Н	32.00	6
9568.13	48.67		74.00	25.33	1000.00	100.0	٧	186.00	7
9903.75		36.59	54.00	17.41	1000.00	100.0	٧	0.00	8
11083.13	50.68		74.00	23.32	1000.00	200.0	٧	98.00	9
11385.00		38.24	54.00	15.77	1000.00	100.0	٧	186.00	9
14521.88		40.56	54.00	13.44	1000.00	100.0	V	111.00	11
14563.13	53.79		74.00	20.21	1000.00	100.0	Н	316.00	11

#### 802.11b CH11



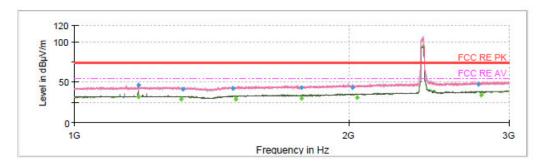
# Final Result

i iilai Nesuit											
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.		
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)		
					(ms)						
1174.50	45.77		74.00	28.23	1000.00	100.0	٧	197.00	-4		
1174.75		37.10	54.00	16.90	1000.00	198.0	V	220.00	-4		
1267.00		32.56	54.00	21.44	1000.00	198.0	V	212.00	-4		
1272.75	42.54		74.00	31.46	1000.00	200.0	Н	137.00	-4		
1495.75		29.20	54.00	24.80	1000.00	198.0	V	0.00	-3		
1515.00	41.54		74.00	32.46	1000.00	200.0	Н	94.00	-3		
1701.75	42.42		74.00	31.58	1000.00	199.0	Н	4.00	-2		
1705.25		30.77	54.00	23.23	1000.00	100.0	Н	177.00	-2		
2010.50	43.22		74.00	30.78	1000.00	200.0	Н	21.00	0		
2073.50		32.03	54.00	21.97	1000.00	100.0	Н	245.00	0		
2775.00		33.99	54.00	20.01	1000.00	100.0	Н	305.00	3		
2780.75	46.73		74.00	27.27	1000.00	200.0	V	236.00	3		



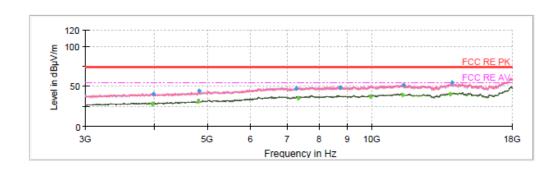
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3969.38		27.59	54.00	26.41	1000.00	200.0	٧	2.00	-3
3976.88	39.71		74.00	34.29	1000.00	200.0	Н	177.00	-3
4918.13		41.28	54.00	12.72	1000.00	100.0	٧	90.00	-1
4929.38	48.60		74.00	25.40	1000.00	100.0	٧	90.00	-1
6864.38	47.21	-	74.00	26.79	1000.00	200.0	Н	51.00	4
7314.38	-	34.52	54.00	19.48	1000.00	100.0	٧	349.00	6
9903.75	_	36.58	54.00	17.42	1000.00	100.0	Н	85.00	8
9903.75	49.54	_	74.00	24.46	1000.00	101.0	Н	85.00	8
11313.75	_	38.66	54.00	15.34	1000.00	100.0	Н	176.00	9
11334.38	51.21	-	74.00	22.79	1000.00	200.0	٧	0.00	9
14420.63		40.76	54.00	13.24	1000.00	100.0	V	184.00	11
14426.25	53.16	1	74.00	20.84	1000.00	100.0	V	203.00	11

#### 802.11g CH1



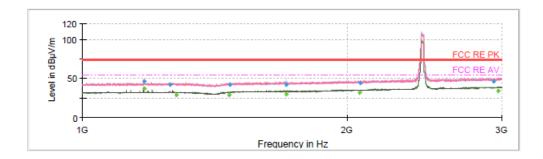
## Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1174.25		32.22	54.00	21.78	1000.00	100.0	٧	161.00	-4
1174.75	46.41		74.00	27.59	1000.00	100.0	V	204.00	-4
1310.25		28.52	54.00	25.48	1000.00	100.0	V	0.00	-4
1314.25	41.02		74.00	32.98	1000.00	200.0	٧	196.00	-4
1494.00	42.06	<u> </u>	74.00	31.94	1000.00	200.0	Н	4.00	-3
1503.00		29.11	54.00	24.89	1000.00	100.0	Н	358.00	-3
1774.25	42.86		74.00	31.14	1000.00	100.0	Н	144.00	-2
1776.75	-	29.76	54.00	24.24	1000.00	200.0	Н	4.00	-2
2020.25	43.55		74.00	30.45	1000.00	200.0	V	324.00	0
2044.50		31.13	54.00	22.87	1000.00	200.0	Н	4.00	0
2778.50	46.67		74.00	27.33	1000.00	200.0	Н	116.00	3
2795.50		33.86	54.00	20.14	1000.00	100.0	Н	265.00	3



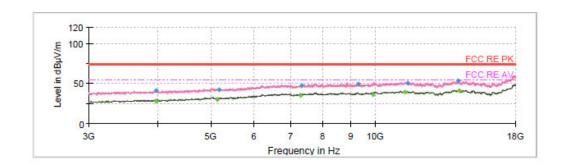
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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3967.50		27.54	54.00	26.46	1000.00	100.0	Н	75.00	-3
3984.38	39.85		74.00	34.15	1000.00	200.0	٧	4.00	-4
4818.75		30.52	54.00	23.48	1000.00	100.0	٧	81.00	-2
4826.25	44.25		74.00	29.75	1000.00	100.0	٧	81.00	-2
7275.00	47.59		74.00	26.41	1000.00	100.0	V	177.00	6
7333.13		34.38	54.00	19.62	1000.00	200.0	٧	132.00	6
8743.13	48.51	-	74.00	25.49	1000.00	200.0	Н	355.00	7
9905.63		36.56	54.00	17.44	1000.00	100.0	٧	316.00	8
11334.38		38.50	54.00	15.50	1000.00	100.0	٧	91.00	9
11381.25	51.03	-	74.00	22.97	1000.00	101.0	Н	0.00	9
13871.25		40.50	54.00	13.50	1000.00	100.0	Н	175.00	11
13957.50	54.31		74.00	19.69	1000.00	200.0	V	4.00	11

#### 802.11g CH6



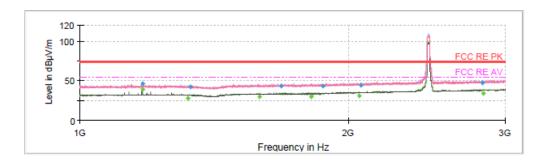
## Final Result

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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.50		37.36	54.00	16.64	1000.00	100.0	V	198.00	-4
1174.75	46.34		74.00	27.66	1000.00	101.0	٧	189.00	-4
1258.00	42.06		74.00	31.94	1000.00	100.0	Н	285.00	-4
1280.00		28.83	54.00	25.17	1000.00	200.0	V	0.00	-4
1469.25		28.39	54.00	25.61	1000.00	101.0	Н	5.00	-3
1473.25	41.55		74.00	32.45	1000.00	200.0	Н	308.00	-3
1704.00	42.38		74.00	31.62	1000.00	100.0	Н	4.00	-2
1707.50		30.16	54.00	23.84	1000.00	100.0	٧	162.00	-2
2065.50		31.34	54.00	22.66	1000.00	200.0	Н	0.00	0
2071.75	44.13		74.00	29.87	1000.00	100.0	Н	0.00	0
2939.50	46.58		74.00	27.42	1000.00	200.0	Н	339.00	3
2974.75		34.30	54.00	19.70	1000.00	101.0	Н	50.00	3



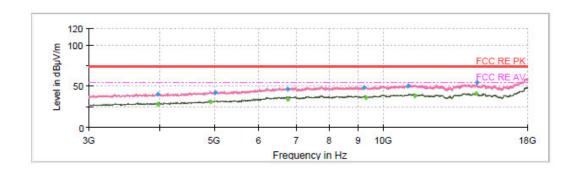
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3967.50		27.47	54.00	26.53	(ms) 1000.00	100.0	V	352.00	-3
3971.25	40.66		74.00	33.34	1000.00	100.0		36.00	-3
5137.50		29.33	54.00	24.67	1000.00	100.0		352.00	0
5169.38	41.90		74.00	32.10	1000.00	100.0	V	185.00	0
7301.25		34.57	54.00	19.43	1000.00	200.0	Н	164.00	6
7314.38	47.51		74.00	26.49	1000.00	199.0	V	0.00	6
9296.25	49.38		74.00	24.62	1000.00	100.0	V	232.00	7
9885.00		36.17	54.00	17.83	1000.00	200.0	V	162.00	7
11308.13		38.57	54.00	15.43	1000.00	200.0	V	50.00	9
11431.88	50.27		74.00	23.73	1000.00	200.0	V	0.00	9
14120.63	53.63		74.00	20.37	1000.00	100.0	V	348.00	11
14180.63	0	40.78	54.00	13.22	1000.00	100.0	V	357.00	11

#### 802.11g CH11



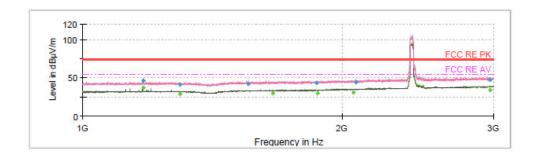
# Final Result

Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.75	45.91		74.00	28.09	1000.00	200.0	V	190.00	-4
1174.75		38.55	54.00	15.45	1000.00	101.0	V	212.00	-4
1322.00		28.16	54.00	25.84	1000.00	199.0	Н	295.00	-4
1330.50	41.60		74.00	32.40	1000.00	200.0	Н	0.00	-3
1591.75		29.48	54.00	24.52	1000.00	101.0	V	162.00	-2
1683.00	42.99		74.00	31.01	1000.00	200.0	V	37.00	-2
1815.75		29.88	54.00	24.12	1000.00	100.0	Н	0.00	-1
1873.25	42.78	-	74.00	31.22	1000.00	100.0	Н	4.00	-1
2057.25		31.18	54.00	22.82	1000.00	101.0	٧	357.00	0
2065.25	43.90	-	74.00	30.10	1000.00	100.0	Н	0.00	0
2830.00	46.76		74.00	27.24	1000.00	100.0	Н	62.00	3
2833.75		33.88	54.00	20.12	1000.00	101.0	V	297.00	3



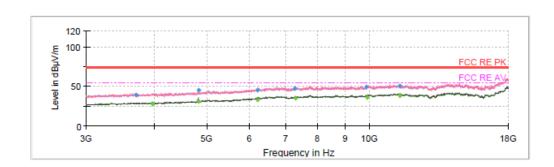
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time (ms)	(cm)		(deg)	(dB/m)
3967.50		27.48	54.00	26.52	1000.00	200.0	Н	109.00	-3
3971.25	40.15	· · · ·	74.00	33.85	1000.00	200.0	V	3.00	-3
4918.13		30.57	54.00	23.43	1000.00	101.0	V	80.00	-1
5013.75	41.62	-	74.00	32.38	1000.00	200.0	Н	325.00	0
6753.75	46.42		74.00	27.58	1000.00	101.0	٧	313.00	5
6755.63	-	33.81	54.00	20.19	1000.00	200.0	Н	212.00	5
9236.25	48.45	-	74.00	25.55	1000.00	100.0	Н	222.00	7
9300.00		35.70	54.00	18.30	1000.00	200.0	Н	340.00	7
11030.63	50.07		74.00	23.93	1000.00	200.0	V	59.00	9
11351.25		38.43	54.00	15.57	1000.00	101.0	٧	0.00	9
14583.75	-	40.66	54.00	13.34	1000.00	101.0	V	355.00	11
14617.50	54.31	_	74.00	19.69	1000.00	100.0	H	139.00	10

# 802.11n (HT20) CH1



## Final Result

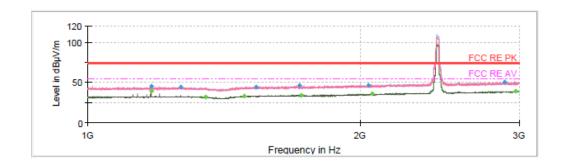
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1174.50		36.98	54.00	17.02	1000.00	101.0	V	199.00	-4
1174.75	46.23		74.00	27.77	1000.00	200.0	V	178.00	-4
1296.75	41.39		74.00	32.61	1000.00	100.0	Н	290.00	-4
1298.25	-	28.55	54.00	25.45	1000.00	200.0	Н	162.00	-4
1556.25	42.07	-	74.00	31.93	1000.00	200.0	Н	29.00	-2
1662.75		29.68	54.00	24.32	1000.00	200.0	٧	186.00	-2
1870.25	43.51	-	74.00	30.49	1000.00	200.0	Н	264.00	-1
1872.50		30.15	54.00	23.85	1000.00	100.0	Н	343.00	-1
2061.75		31.22	54.00	22.78	1000.00	200.0	V	316.00	0
2078.25	43.61		74.00	30.39	1000.00	101.0	V	2.00	0
2972.00		34.22	54.00	19.78	1000.00	102.0	V	18.00	3
2973.00	47.53		74.00	26.47	1000.00	200.0	Н	3.00	3



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
(1411.12)	(αυμν/ιιι)	(аврулп)	(αυμν/ιιι)	(GD)	(ms)	(CIII)		(deg)	(dD/III)
3708.75	38.53		74.00	35.47	1000.00	100.0	Н	118.00	-5
3967.50		27.48	54.00	26.52	1000.00	200.0	٧	183.00	-3
4824.38	45.55		74.00	28.45	1000.00	100.0		88.00	-2
4826.25		31.23	54.00	22.77	1000.00	100.0	٧	88.00	-2
6206.25		32.55	54.00	21.45	1000.00	100.0	Н	0.00	4
6210.00	45.35		74.00	28.65	1000.00	200.0	٧	0.00	4
7273.13	47.46		74.00	26.54	1000.00	100.0	>	310.00	6
7295.63		34.40	54.00	19.60	1000.00	100.0	٧	0.00	6
9855.00	48.81		74.00	25.19	1000.00	100.0	Н	354.00	7
9888.75		36.38	54.00	17.62	1000.00	200.0	Н	11.00	7
11353.13	50.76		74.00	23.24	1000.00	100.0	V	19.00	9
11355.00		38.43	54.00	15.57	1000.00	100.0	Н	358.00	9

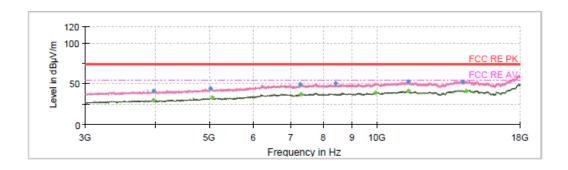


# 802.11n (HT20) CH6



# Final Result

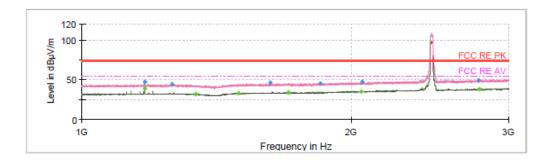
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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.75		39.22	54.00	14.78	500.00	100.0	٧	206.00	4
1174.75	45.51		74.00	28.49	500.00	200.0	٧	188.00	4
1267.25	44.54		74.00	29.46	500.00	200.0	V	214.00	4
1349.25		31.37	54.00	22.63	500.00	200.0	Н	132.00	-3
1488.75	-	32.45	54.00	21.55	500.00	100.0	Н	288.00	-3
1534.25	44.31		74.00	29.69	500.00	200.0	٧	338.00	-3
1715.25	46.02		74.00	27.98	500.00	200.0	Н	0.00	-2
1723.25		33.82	54.00	20.18	500.00	200.0	Н	276.00	-2
2043.50	46.57		74.00	27.43	500.00	200.0	Н	80.00	0
2060.50		35.39	54.00	18.61	500.00	200.0	Н	123.00	0
2887.50	50.53		74.00	23.47	500.00	200.0	Н	157.00	3
2972.75		38.82	54.00	15.18	500.00	100.0	Н	358.00	3



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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3965.63	40.70		74.00	33.30	500.00	200.0	V	218.00	-3
3967.50		30.03	54.00	23.97	500.00	100.0	Н	296.00	-3
5023.13	43.92		74.00	30.08	500.00	100.0	V	2.00	0
5053.13		32.64	54.00	21.36	500.00	200.0	Н	6.00	0
7271.25	48.77		74.00	25.23	500.00	100.0	V	29.00	6
7301.25		37.38	54.00	16.62	500.00	100.0	Н	63.00	6
8418.75	49.96		74.00	24.04	500.00	100.0	Н	63.00	6
9901.88		38.64	54.00	15.36	500.00	100.0	٧	79.00	8
11347.50		41.08	54.00	12.92	500.00	100.0	٧	260.00	9
11366.25	52.02		74.00	21.98	500.00	200.0	٧	354.00	9
14203.13	51.97		74.00	22.03	500.00	200.0	Н	62.00	11
14392.50		40.79	54.00	13.21	500.00	200.0	Н	26.00	11

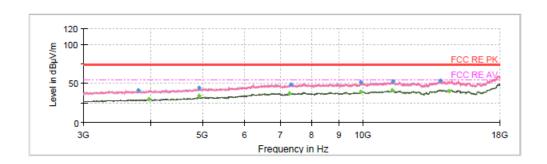


# 802.11n (HT20) CH11



## Final Result

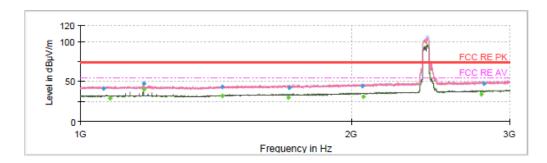
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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.75		39.31	54.00	14.69	500.00	200.0	V	193.00	4
1174.75	46.68		74.00	27.32	500.00	200.0	٧	193.00	4
1262.00	44.20		74.00	29.80	500.00	200.0	٧	336.00	4
1338.75		31.42	54.00	22.58	500.00	100.0	Н	135.00	-3
1496.50		33.05	54.00	20.95	500.00	100.0	Н	160.00	-3
1625.75	45.77		74.00	28.23	500.00	200.0	٧	328.00	-2
1702.25		34.10	54.00	19.90	500.00	100.0	Н	344.00	-2
1848.00	44.70		74.00	29.30	500.00	100.0	Н	262.00	-1
2052.75		35.31	54.00	18.69	500.00	200.0	Н	100.00	0
2057.50	47.35	-	74.00	26.65	500.00	100.0	V	263.00	0
2775.25	48.86		74.00	25.14	500.00	100.0	V	100.00	3
2783.00		37.98	54.00	16.02	500.00	200.0	Н	181.00	3



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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3789.38	41.00		74.00	33.00	500.00	200.0	Н	4.00	-5
3967.50		30.17	54.00	23.83	500.00	200.0	٧	350.00	-3
4918.13	43.65		74.00	30.35	500.00	100.0	٧	80.00	-1
4920.00		33.53	54.00	20.47	500.00	100.0	V	89.00	-1
7275.00		37.28	54.00	16.72	500.00	200.0	٧	357.00	6
7320.00	48.60		74.00	25.40	500.00	200.0	Н	173.00	6
9890.63	51.06		74.00	22.94	500.00	100.0	٧	52.00	7
9890.63		38.75	54.00	15.25	500.00	200.0	Н	155.00	7
11311.88		40.75	54.00	13.25	500.00	100.0	٧	288.00	9
11341.88	52.40		74.00	21.60	500.00	100.0	٧	259.00	9
13931.25	53.36		74.00	20.64	500.00	100.0	٧	183.00	11
14448.75		39.85	54.00	14.15	500.00	100.0	Н	335.00	11

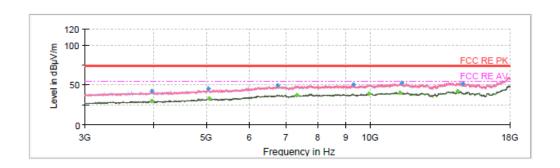


# 802.11n (HT40) CH3



# Final Result

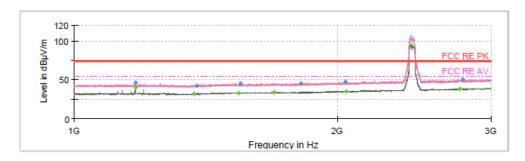
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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1061.00	41.05		74.00	32.95	1000.00	101.0	Н	321.00	-5
1078.50		28.42	54.00	25.58	1000.00	200.0	Н	0.00	-5
1174.75		39.81	54.00	14.19	1000.00	100.0	٧	198.00	-4
1174.75	46.75		74.00	27.25	1000.00	101.0	V	198.00	-4
1438.50		31.60	54.00	22.40	1000.00	200.0	V	124.00	-3
1438.75	43.00		74.00	31.00	1000.00	101.0	V	155.00	-3
1703.00		30.08	54.00	23.92	1000.00	200.0	Н	232.00	-2
1705.75	42.38		74.00	31.62	1000.00	199.0	٧	107.00	-2
2057.50	44.54		74.00	29.46	1000.00	200.0	٧	218.00	0
2061.25		31.19	54.00	22.81	1000.00	200.0	Н	124.00	0
2788.25		33.78	54.00	20.22	1000.00	200.0	Н	20.00	3
2810.00	46.90		74.00	27.10	1000.00	101.0	Н	263.00	3



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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3967.50		30.07	54.00	23.93	500.00	200.0	V	347.00	-3
3969.38	41.86		74.00	32.14	500.00	200.0	V	138.00	-3
5047.50	44.81		74.00	29.19	500.00	200.0	V	147.00	0
5058.75		32.89	54.00	21.11	500.00	100.0	V	42.00	0
6755.63	49.07		74.00	24.93	500.00	100.0	V	128.00	5
7314.38		37.29	54.00	16.71	500.00	100.0	Н	163.00	6
9273.75	50.48		74.00	23.52	500.00	100.0	٧	6.00	7
9903.75		38.63	54.00	15.37	500.00	100.0	V	288.00	8
11317.50		40.43	54.00	13.57	500.00	200.0	Н	163.00	9
11379.38	52.16		74.00	21.84	500.00	200.0	Н	70.00	9
14405.63		41.89	54.00	12.11	500.00	200.0	V	354.00	11
14756.25	51.10		74.00	22.90	500.00	100.0	V	118.00	11

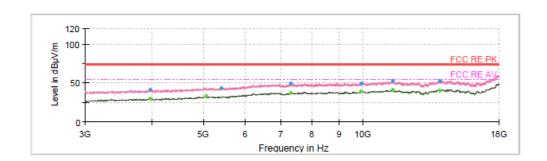


### 802.11n (HT40) CH6



# Final Result

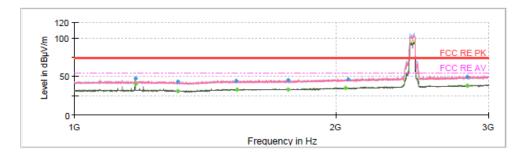
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.75		39.62	54.00	14.38	500.00	200.0	٧	192.00	4
1174.75	45.97		74.00	28.03	500.00	200.0	V	192.00	4
1373.00		31.47	54.00	22.53	500.00	100.0	Н	255.00	-3
1381.50	42.25	-	74.00	31.75	500.00	100.0	Н	336.00	-3
1541.75		32.40	54.00	21.60	500.00	200.0	Н	319.00	-3
1548.50	45.51	-	74.00	28.49	500.00	200.0	٧	57.00	-3
1694.25		33.77	54.00	20.23	500.00	100.0	٧	28.00	-2
1817.00	45.37	-	74.00	28.63	500.00	200.0	Н	124.00	-1
2042.25	46.91	-	74.00	27.09	500.00	100.0	٧	145.00	0
2048.00		35.28	54.00	18.72	500.00	100.0	V	136.00	0
2763.00		37.97	54.00	16.03	500.00	100.0	Н	359.00	3
2786.50	50.27		74.00	23.73	500.00	200.0	Н	57.00	3



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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3965.63		29.99	54.00	24.01	500.00	200.0	Н	164.00	-3
3967.50	40.94		74.00	33.06	500.00	100.0	V	2.00	-3
5060.63		32.68	54.00	21.32	500.00	100.0	Н	284.00	0
5405.63	43.55		74.00	30.45	500.00	100.0	Н	303.00	0
7301.25	49.01		74.00	24.99	500.00	100.0	Н	31.00	6
7305.00		37.42	54.00	16.58	500.00	100.0	V	1.00	6
9898.13		38.83	54.00	15.17	500.00	200.0	V	115.00	7
9905.63	49.65		74.00	24.35	500.00	200.0	Н	164.00	8
11336.25	51.98		74.00	22.02	500.00	100.0	Н	13.00	9
11343.75		40.69	54.00	13.31	500.00	100.0	V	129.00	9
13931.25	52.43		74.00	21.57	500.00	100.0	٧	232.00	11
13933.13		40.29	54.00	13.71	500.00	200.0	Н	201.00	11

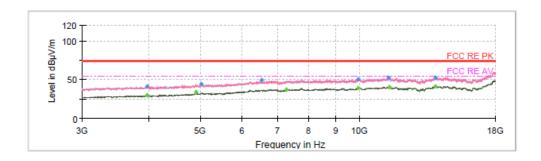


### 802.11n (HT40) CH9



### Final Result

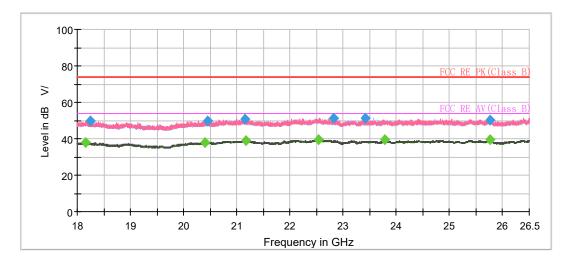
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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.75	-	40.21	54.00	13.79	500.00	100.0	V	190.00	4
1174.75	47.23		74.00	26.77	500.00	100.0	V	190.00	4
1315.25	43.03		74.00	30.97	500.00	100.0	Н	330.00	4
1316.75	-	30.86	54.00	23.14	500.00	200.0	V	359.00	4
1537.00	44.06		74.00	29.94	500.00	200.0	Н	73.00	-3
1538.00		32.54	54.00	21.46	500.00	200.0	Н	216.00	-3
1762.25	45.30		74.00	28.70	500.00	200.0	V	310.00	-2
1764.00		33.20	54.00	20.80	500.00	100.0	٧	116.00	-2
2050.75		35.07	54.00	18.93	500.00	100.0	Н	355.00	0
2068.50	46.53		74.00	27.47	500.00	100.0	Н	251.00	0
2834.50		37.67	54.00	16.33	500.00	200.0	Н	4.00	3
2837.25	49.70		74.00	24.30	500.00	200.0	V	354.00	3



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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
` '	, ,	` ' '	` ' '	, ,	(ms)	,		, 3,	, ,
3965.63	40.97		74.00	33.03	500.00	200.0	Н	134.00	-3
3967.50		30.18	54.00	23.82	500.00	200.0	V	126.00	-3
4905.00	-	34.24	54.00	19.76	500.00	100.0	٧	84.00	-1
5017.50	44.06		74.00	29.94	500.00	200.0	٧	23.00	0
6530.63	49.13		74.00	24.87	500.00	200.0	Н	0.00	4
7275.00	-	37.27	54.00	16.73	500.00	200.0	Н	89.00	6
9900.00		38.53	54.00	15.47	500.00	200.0	٧	241.00	7
9903.75	49.90		74.00	24.10	500.00	100.0	Н	192.00	8
11300.63	52.30		74.00	21.70	500.00	200.0	Н	26.00	9
11338.13		40.48	54.00	13.52	500.00	100.0	V	195.00	9
13865.63		41.20	54.00	12.80	500.00	100.0	Н	89.00	11
13865.63	52.45		74.00	21.55	500.00	200.0	Н	107.00	11



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



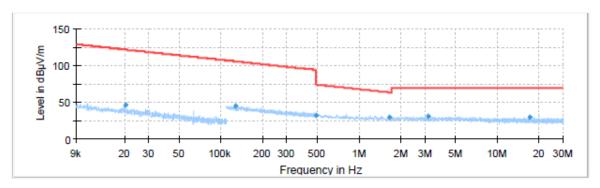
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dB£gV/m)	(dB£gV/m)	(dB£gV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
` '	, ,	, ,	`	` '	(ms)	,		, 0,	` ′
18157.250000		38.12	54.00	15.88	500.0	200.0	٧	314.0	-3.8
18244.375000	49.70		74.00	24.30	500.0	100.0	Н	223.0	-3.8
20397.000000		38.06	54.00	15.94	500.0	200.0	٧	254.0	-3.2
20445.875000	49.97		74.00	24.03	500.0	100.0	V	56.0	-3.0
21156.687500	50.64		74.00	23.36	500.0	100.0	V	16.0	-2.2
21175.812500		39.11	54.00	14.89	500.0	100.0	V	51.0	-2.3
22542.187500		39.46	54.00	14.54	500.0	100.0	V	0.0	-1.4
22821.625000	51.47		74.00	22.53	500.0	100.0	V	135.0	-1.5
23420.875000	51.16		74.00	22.84	500.0	200.0	Н	103.0	-1.4
23781.062500		39.35	54.00	14.65	500.0	100.0	٧	0.0	-1.2
25758.375000		39.27	54.00	14.73	500.0	100.0	٧	2.0	-0.4
25758.375000	50.14		74.00	23.86	500.0	200.0	Н	145.0	-0.4



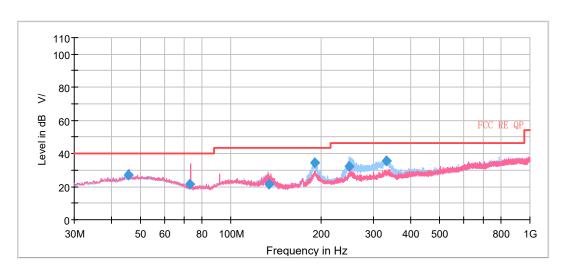
#### **Bluetooth LE**

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

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



Radiates Emission from 9kHz to 90kHz



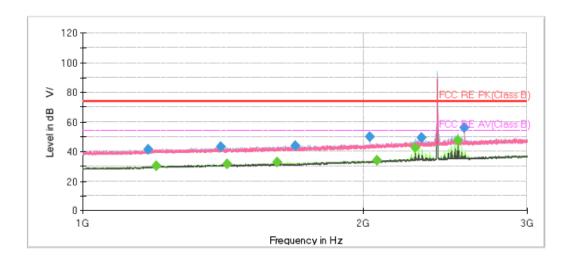
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
45.563750	27.07	40.00	12.93	121.0	V	332.0	21.0
72.807500	21.63	40.00	18.37	110.0	V	152.0	15.8
134.230000	21.65	43.50	21.85	100.0	V	327.0	15.7
190.378750	34.39	43.50	9.11	125.0	Н	117.0	18.5
249.180000	32.33	46.00	13.67	110.0	Н	140.0	20.4
331.750000	35.40	46.00	10.60	100.0	Н	104.0	21.9

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

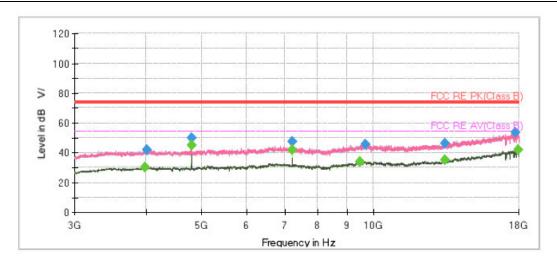
2. Margin = Limit – Quasi-Peak

### Bluetooth LE-Channel 0



Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	( dBµV/m)	( dBµV/m)	( dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1174.500000	41.42		74.00	32.58	500.0	100.0	V	78.0	-9.3
1198.750000		30.20	54.00	23.80	500.0	200.0	Н	82.0	-8.8
1405.500000	42.85		74.00	31.15	500.0	200.0	V	313.0	-7.6
1428.500000		31.23	54.00	22.77	500.0	200.0	Н	51.0	-7.4
1618.500000		32.51	54.00	21.49	500.0	200.0	Н	82.0	-6.3
1691.500000	43.76		74.00	30.24	500.0	200.0	Н	1.0	-6.0
2033.750000	49.68		74.00	24.32	500.0	100.0	Н	63.0	-4.3
2071.750000		33.81	54.00	20.19	500.0	200.0	Н	220.0	-4.0
2274.250000		42.36	54.00	11.64	500.0	200.0	Н	195.0	-3.0
2314.000000	49.17		74.00	24.83	500.0	200.0	Н	126.0	-2.9
2530.000000		47.64	54.00	6.36	500.0	200.0	Н	220.0	-2.2
2571.750000	56.25		74.00	17.75	500.0	200.0	V	56.0	-2.0

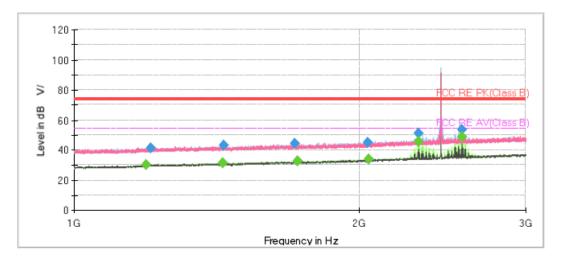




Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit ( dBµV/m)	Margin (dB)	Meas. Time	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
					(ms)				
3988.125000		30.15	54.00	23.85	500.0	200.0	V	126.0	-6.8
4008.750000	41.86	×	74.00	32.14	500.0	200.0	V	163.0	-6.8
4801.875000	50.14	13-10-1	74.00	23.86	500.0	200.0	Н	27.0	-6.1
4803.750000	(1700)	45.09	54.00	8.91	500.0	200.0	Н	351.0	-6.1
7205.625000	47.69		74.00	26.31	500.0	200.0	Н	345.0	-3.0
7205.625000	-	41.69	54.00	12.31	500.0	200.0	Н	345.0	-3.0
9474.375000	12.00	34.15	54.00	19.85	500.0	200.0	Н	118.0	0.0
9676.875000	45.77	) <u></u> )	74.00	28.23	500.0	100.0	V	93.0	-0.7
13338.750000	46.12		74.00	27.88	500.0	100.0	Н	246.0	2.3
13340.625000		34.78	54.00	19.22	500.0	100.0	٧	141.0	2.3
17713.125000	53.37	10750	74.00	20.63	500.0	200.0	V	135.0	10.3
17938.125000		41.71	54.00	12.29	500.0	100.0	Н	164.0	10.4

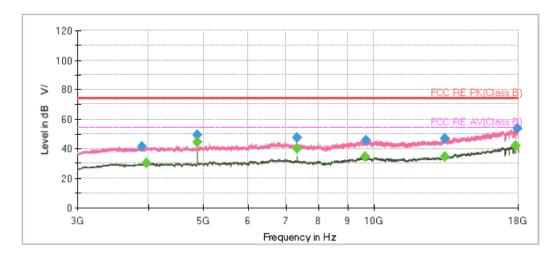


### **Bluetooth LE-Channel 19**



Frequency (MHz)	MaxPeak ( dBµV/m)	Average ( dBµV/m)	Limit ( dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1191.250000		30.06	54.00	23.94	500.0	100.0	v	138.0	-9.0
1205.000000	41.09		74.00	32.91	500.0	200.0	Н	0.0	-8.8
1435.500000		31.26	54.00	22.74	500.0	200.0	Н	30.0	-7.4
1437.750000	42.84		74.00	31.16	500.0	100.0	Н	0.0	-7.3
1711.500000	44.20		74.00	29.80	500.0	100.0	V	359.0	-5.9
1723.750000		32.35	54.00	21.65	500.0	100.0	V	275.0	-5.9
2041.500000	44.89		74.00	29.11	500.0	200.0	Н	30.0	-4.3
2046.500000		33.99	54.00	20.01	500.0	100.0	Н	274.0	-4.2
2312.000000	50.94		74.00	23.06	500.0	100.0	Н	184.0	-2.8
2312.000000		45.70	54.00	8.30	500.0	200.0	Н	180.0	-2.8
2568.000000		48.92	54.00	5.08	500.0	200.0	Н	197.0	-2.0
2568.000000	53.24		74.00	20.76	500.0	200.0	Н	197.0	-2.0

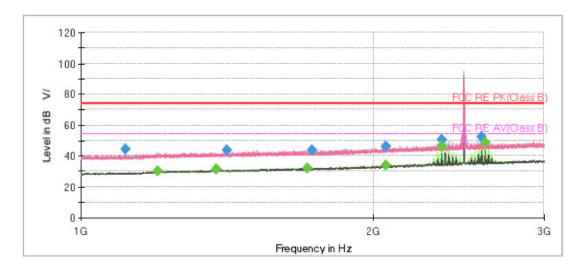




Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	( dBµV/m)	( dBµV/m)	( dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3903.750000	41.40		74.00	32.60	500.0	200.0	Н	121.0	-7.4
3973.125000		30.12	54.00	23.88	500.0	100.0	V	28.0	-6.9
4878.750000		44.44	54.00	9.56	500.0	200.0	Н	0.0	-5.7
4878.750000	49.46		74.00	24.54	500.0	200.0	Н	0.0	-5.7
7318.125000	47.18		74.00	26.82	500.0	200.0	Н	345.0	-3.0
7320.000000		39.80	54.00	14.20	500.0	200.0	Н	337.0	-3.0
9660.000000		34.49	54.00	19.51	500.0	100.0	Н	52.0	-0.6
9673.125000	45.70		74.00	28.30	500.0	100.0	V	2.0	-0.6
13338.750000	46.63		74.00	27.37	500.0	200.0	V	246.0	2.3
13344.375000		34.71	54.00	19.29	500.0	100.0	V	56.0	2.3
17808.750000		41.71	54.00	12.29	500.0	200.0	Н	65.0	10.2
17943.750000	53.45		74.00	20.55	500.0	200.0	Н	349.0	10.5

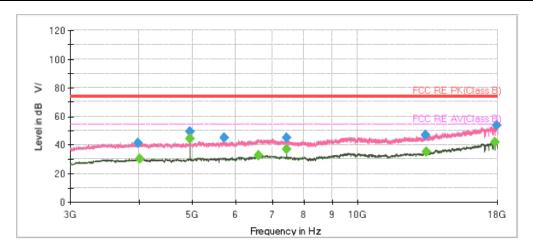


### **Bluetooth LE-Channel 39**



Frequency (MHz)	MaxPeak ( dBμV/m)	Average ( dBµV/m)	Limit ( dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1111.250000	44.04		74.00	29.96	500.0	200.0	٧	22.0	-10.0
1199.250000	202	30.06	54.00	23.94	500.0	100.0	Н	214.0	-8.8
1380.250000		31.25	54.00	22.75	500.0	100.0	Н	347.0	-7.7
1412.000000	43.48		74.00	30.52	500.0	200.0	H	0.0	-7.5
1710.000000		32.27	54.00	21.73	500.0	100.0	Н	305.0	-5.9
1731.000000	43.81		74.00	30.19	500.0	100.0	V	167.0	-5.8
2059.250000	45.86		74.00	28.14	500.0	100.0	Н	132.0	-4.1
2062.000000		33.88	54.00	20.12	500.0	100.0	Н	124.0	-4.1
2352.000000		46.23	54.00	7.77	500.0	100.0	Н	189.0	-2.9
2352.500000	50.35		74.00	23.65	500.0	200.0	H	245.0	-2.9
2588.500000	52.20		74.00	21.80	500.0	100.0	Н	180.0	-2.0
2608.000000		48.47	54.00	5.53	500.0	200.0	Н	195.0	-2.0

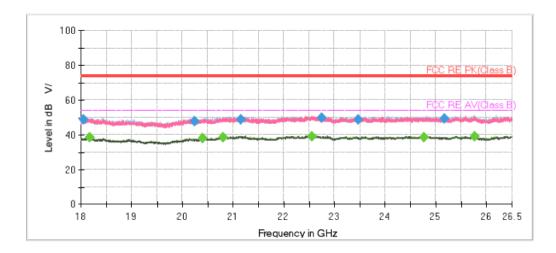




Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	( dBµV/m)	( dBµV/m)	( dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3988.125000	41.45		74.00	32.55	500.0	200.0	V	51.0	-6.8
4008.750000	-	30.39	54.00	23.61	500.0	200.0	٧	170.0	-6.8
4959.375000	-	44.18	54.00	9.82	500.0	200.0	Н	33.0	-5.4
4959.375000	49.17		74.00	24.83	500.0	200.0	Н	33.0	-5.4
5724.375000	45.22		74.00	28.78	500.0	100.0	V	96.0	-4.4
6594.375000		32.66	54.00	21.34	500.0	200.0	V	160.0	-3.4
7440.000000		37.00	54.00	17.00	500.0	200.0	Н	345.0	-2.9
7440.000000	45.17		74.00	28.83	500.0	200.0	Н	345.0	-2.9
13312.500000	46.58		74.00	27.42	500.0	200.0	V	24.0	2.3
13342.500000		35.07	54.00	18.93	500.0	200.0	Н	341.0	2.3
17808.750000		41.94	54.00	12.06	500.0	200.0	V	151.0	10.2
17953.125000	53.30		74.00	20.70	500.0	200.0	Н	128.0	10.6



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



Fragueness	MayDook	Augraga	Linnit	Margin	Mass	Hoight	Dal	Aminouth	Corr
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	( dBµV/m)	( dBµV/m)	( dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
18047.195000	48.86		74.00	25.14	500.0	200.0	V	118.0	-3.7
18167.230000		38.27	54.00	15.73	500.0	200.0	Н	52.0	-3.8
20243.342500	47.83		74.00	26.17	500.0	200.0	Н	123.0	-3.7
20395.177500		37.95	54.00	16.05	500.0	200.0	Н	202.0	-3.2
20801.415000		38.65	54.00	15.35	500.0	200.0	Н	34.0	-2.7
21160.677500	48.83		74.00	25.17	500.0	200.0	Н	34.0	-2.2
22563.303750		38.96	54.00	15.04	500.0	200.0	Н	67.0	-1.4
22754.252500	49.57		74.00	24.43	500.0	200.0	Н	244.0	-1.5
23472.361250	48.81		74.00	25.19	500.0	200.0	Н	0.0	-1.4
24764.962500		38.66	54.00	15.34	500.0	200.0	V	340.0	-0.7
25161.720000	49.18		74.00	24.82	500.0	200.0	Н	38.0	-0.9
25760.311250		38.93	54.00	15.07	500.0	200.0	Н	67.0	-0.4



#### 5.7. Conducted Emission

#### **Ambient Condition**

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

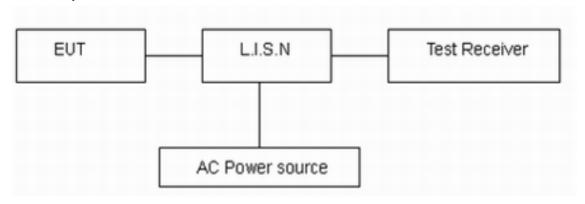
#### **Methods of Measurement**

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

The measurement result should include both L line and N line.

The test is in transmitting mode.

#### **Test Setup**



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

#### Limits

Frequency (MHz)	Conducted Limits(dBμV)				
	Quasi-peak	Average			
0.15 - 0.5	66 to 56 *	56 to 46 <sup>*</sup>			
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:**

The equipment is not connected to the public network, so test items do not apply.

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# 6. Main Test Instruments

Name	Manufacturer Type		Serial Number	Calibration Date	Expiration Date	
Power sensor	R&S	NRP18S	101954	2024-05-07	2025-05-06	
Signal Generator	KEYSIGHT N9020A		MY51330870	2024-05-07	2025-05-06	
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06	
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15	
EMI Test Receiver	R&S	ESR	102389	2024-05-07	2025-05-06	
Signal Analyzer	R&S	FSV40	101298	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	
Amplifier	R&S	SCU18	10034	2024-05-08	2025-05-07	
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23	
Amplifier	MicroWave	KLNA-1804 0050	220826001	2024-05-08	2025-05-07	
Software	R&S	EMC32	9.26.01	1	1	



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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 \*\*\*\*\*