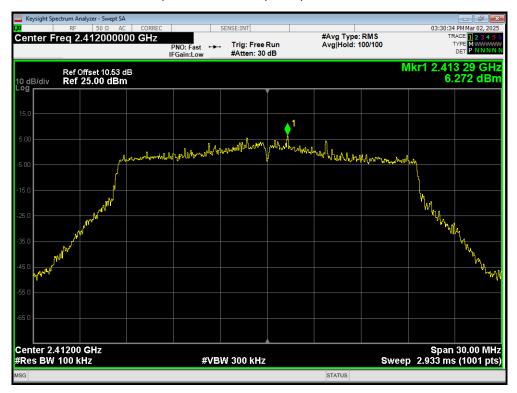
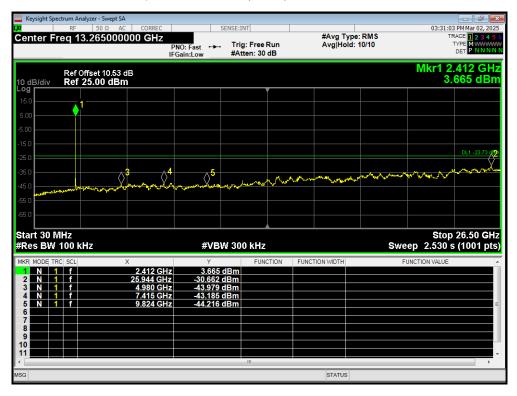


### **Test Results:**

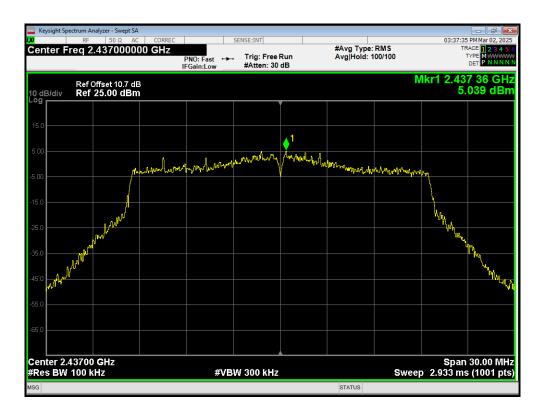
Tx. Spurious 802.11ax(HE20) 2412MHz Ref



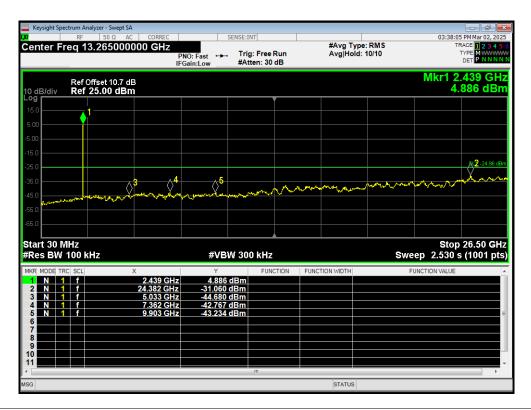
Tx. Spurious 802.11ax(HE20) 2412MHz Emission



Tx. Spurious 802.11ax(HE20) 2437MHz Ref



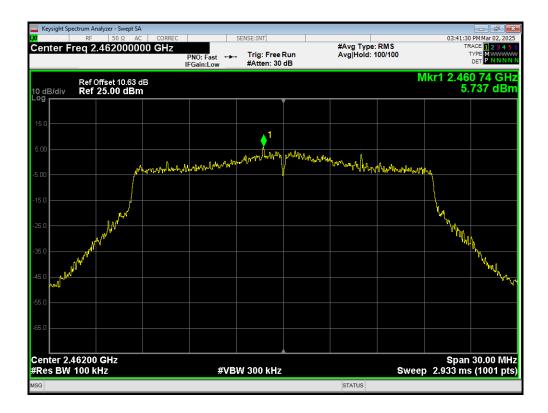
Tx. Spurious 802.11ax(HE20) 2437MHz Emission



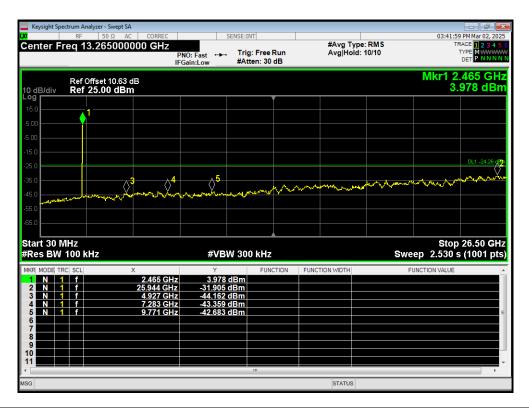


**RF Test Report** 

Tx. Spurious 802.11ax(HE20) 2462MHz Ref



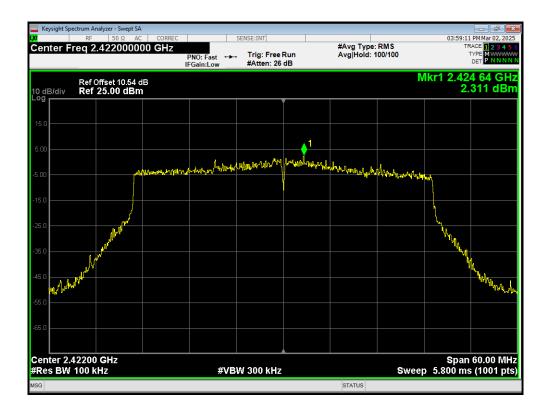
Tx. Spurious 802.11ax(HE20) 2462MHz Emission



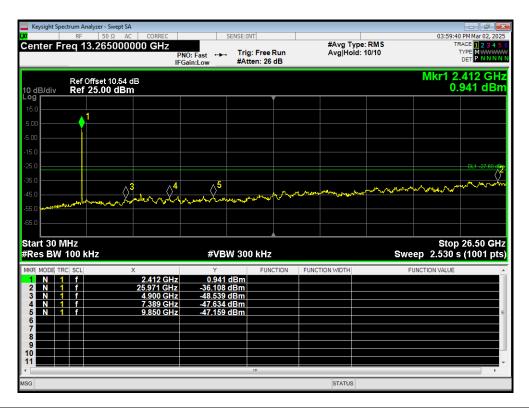
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Tx. Spurious 802.11ax(HE40) 2422MHz Ref



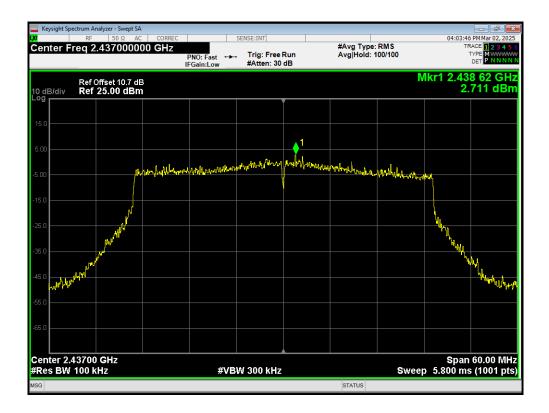
Tx. Spurious 802.11ax(HE40) 2422MHz Emission



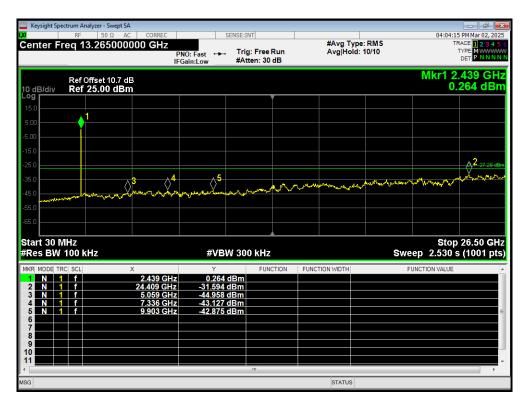
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Tx. Spurious 802.11ax(HE40) 2437MHz Ref



Tx. Spurious 802.11ax(HE40) 2437MHz Emission

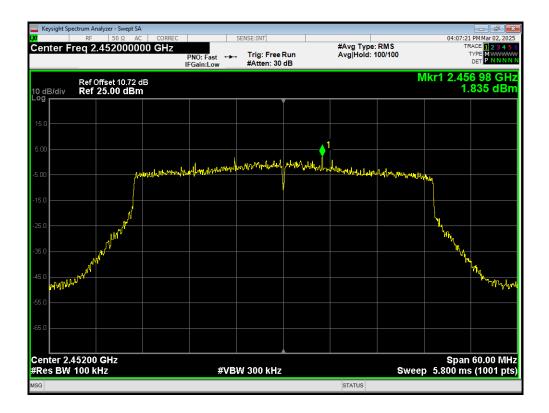


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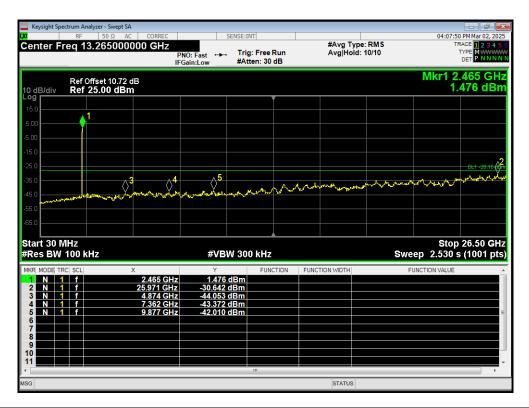


**RF Test Report** 

Tx. Spurious 802.11ax(HE40) 2452MHz Ref



Tx. Spurious 802.11ax(HE40) 2452MHz Emission



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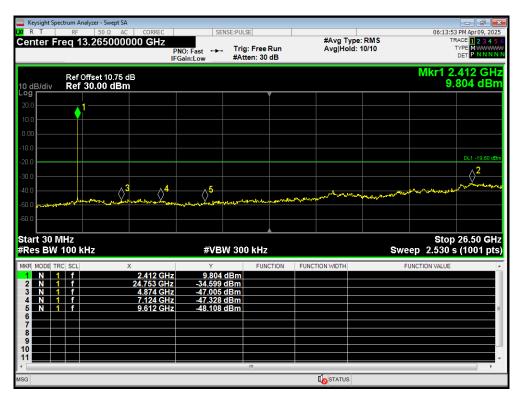


**RF Test Report** 

Tx. Spurious 802.11b 2412MHz Ref



Tx. Spurious 802.11b 2412MHz Emission

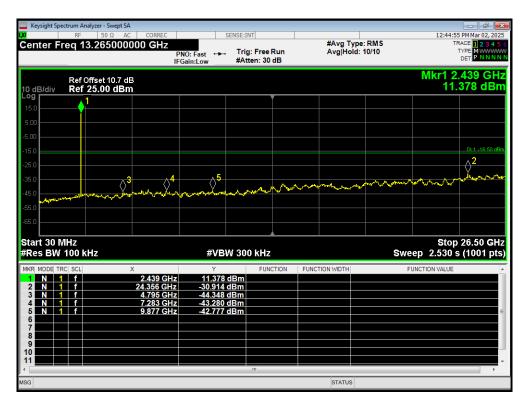


Tx. Spurious 802.11b 2437MHz Ref

Report No.: EFTA25020129-IE-02-R1

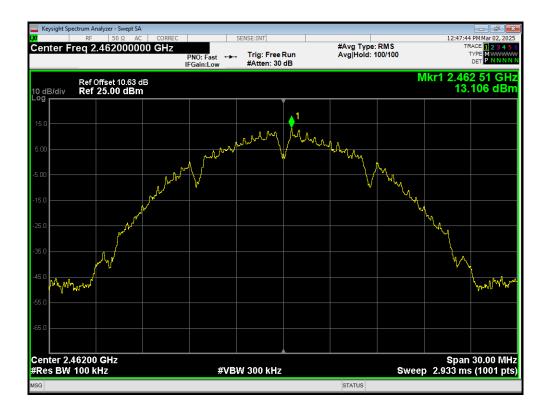


Tx. Spurious 802.11b 2437MHz Emission

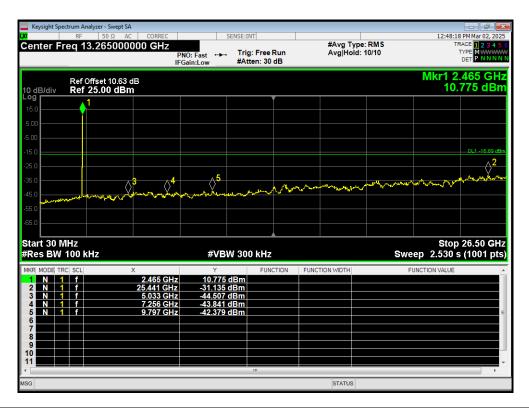




Tx. Spurious 802.11b 2462MHz Ref



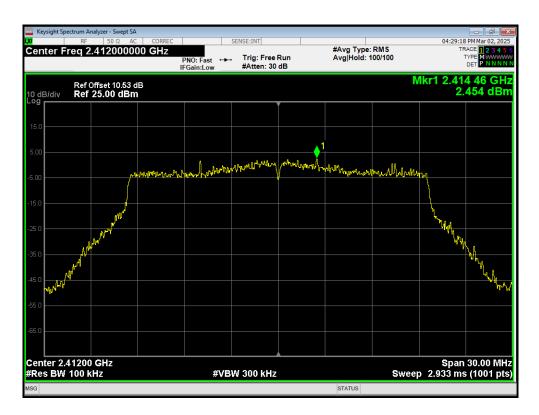
Tx. Spurious 802.11b 2462MHz Emission



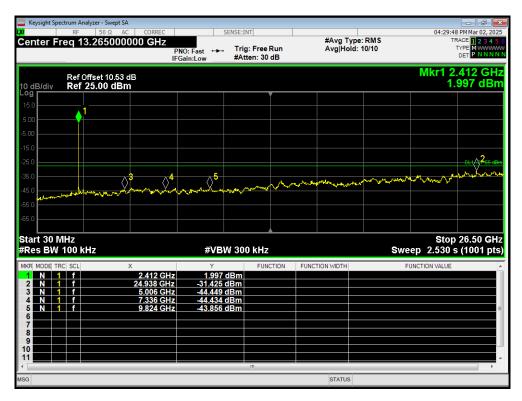
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# Tx. Spurious 802.11be(20) 2412MHz Ref

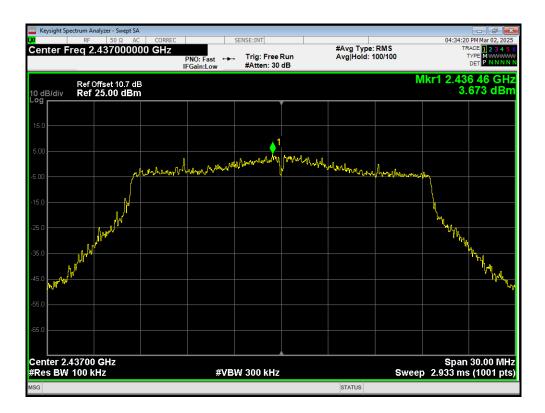


Tx. Spurious 802.11be(20) 2412MHz Emission

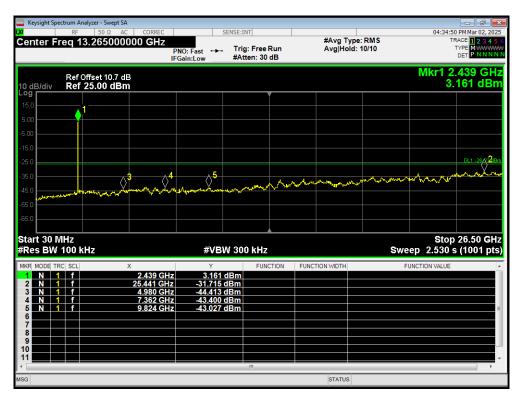




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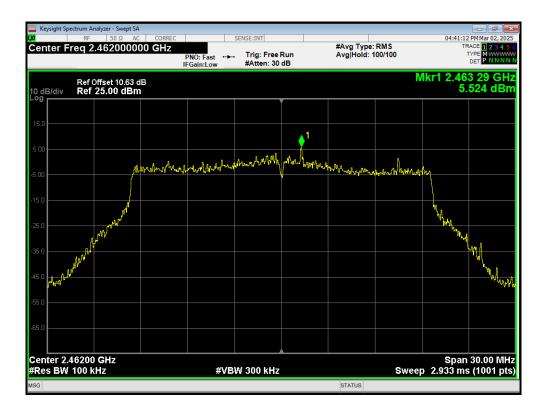


Tx. Spurious 802.11be(20) 2437MHz Emission

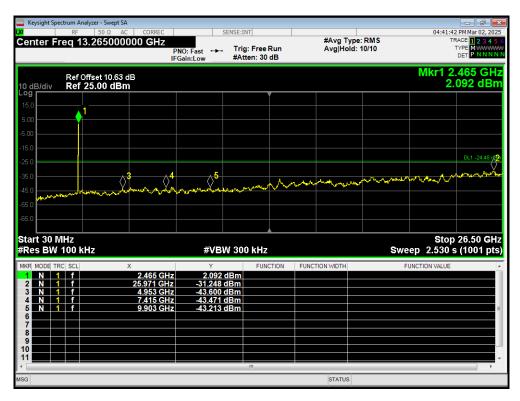




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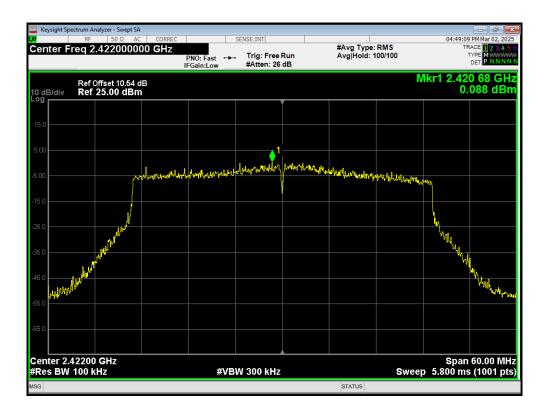


Tx. Spurious 802.11be(20) 2462MHz Emission

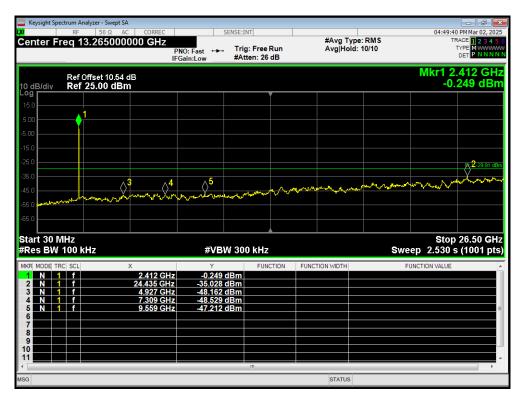




# Tx. Spurious 802.11be(40) 2422MHz Ref

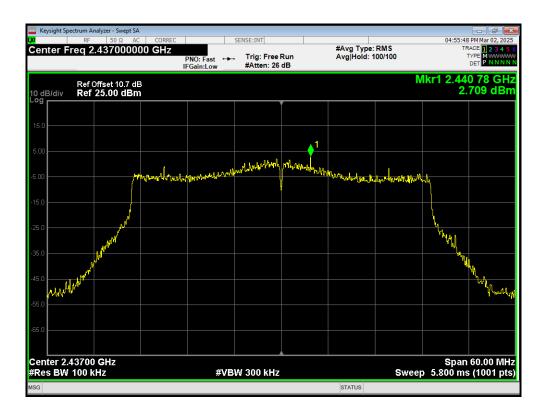


Tx. Spurious 802.11be(40) 2422MHz Emission

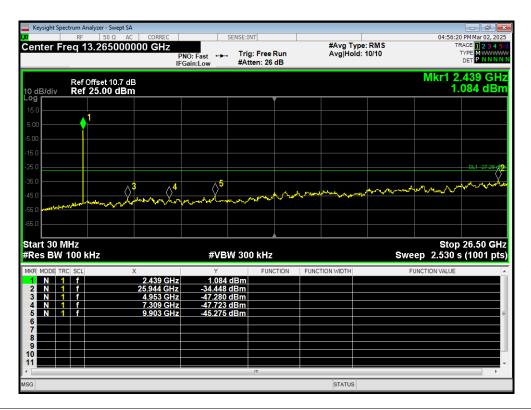




# Tx. Spurious 802.11be(40) 2437MHz Ref



Tx. Spurious 802.11be(40) 2437MHz Emission

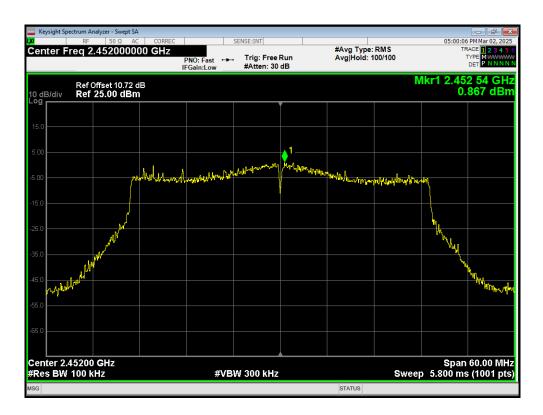


Eurofins TA Technology (Shanghai) Co., Ltd.

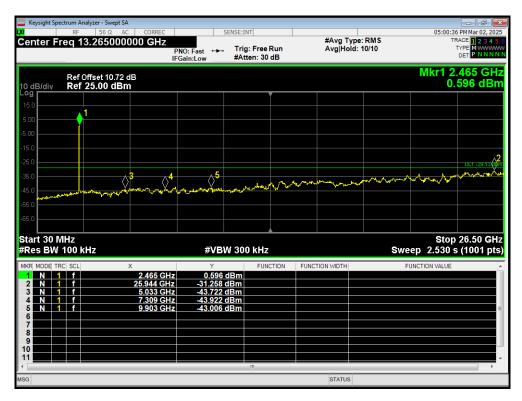
TA-MB-04-005R



# Tx. Spurious 802.11be(40) 2452MHz Ref



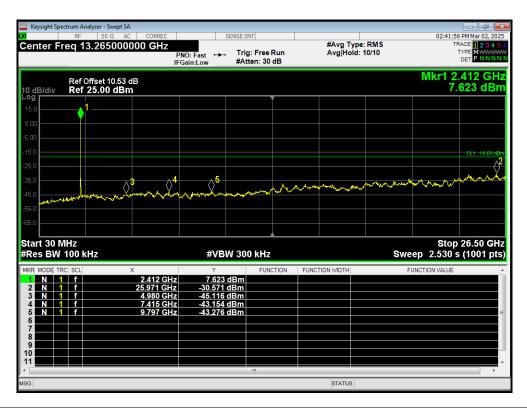
Tx. Spurious 802.11be(40) 2452MHz Emission



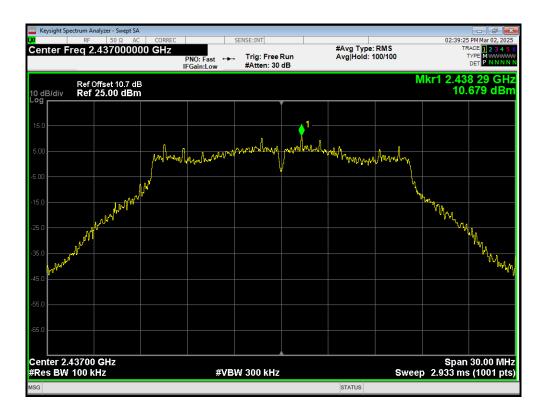
Tx. Spurious 802.11g 2412MHz Ref



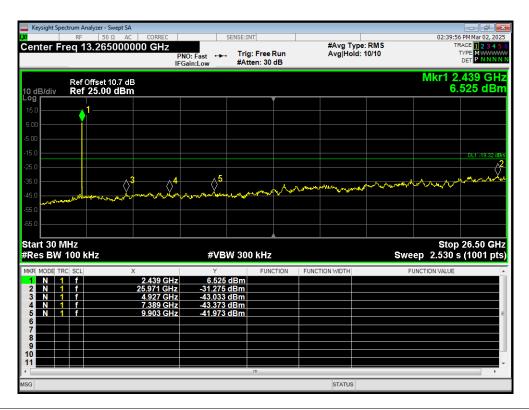
Tx. Spurious 802.11g 2412MHz Emission



Tx. Spurious 802.11g 2437MHz Ref

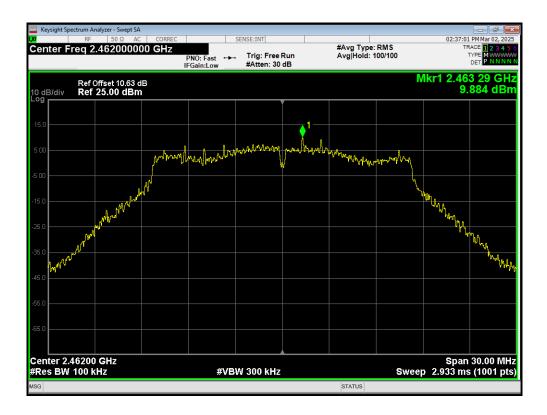


Tx. Spurious 802.11g 2437MHz Emission

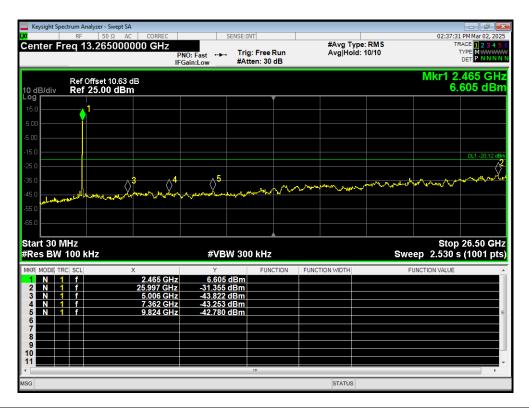




Tx. Spurious 802.11g 2462MHz Ref



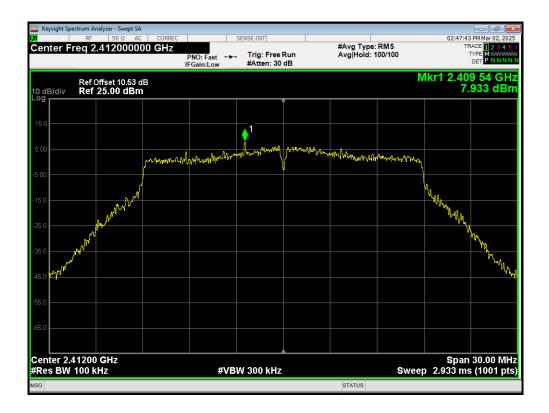
Tx. Spurious 802.11g 2462MHz Emission



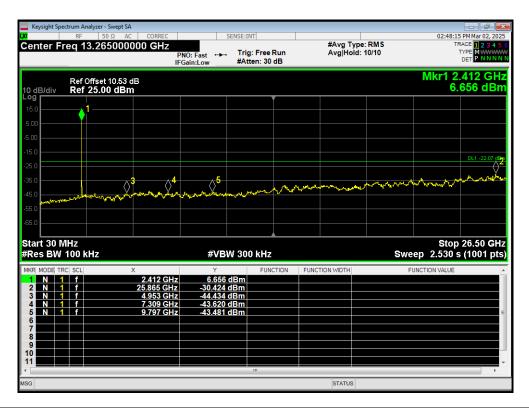
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Tx. Spurious 802.11n(HT20) 2412MHz Ref



Tx. Spurious 802.11n(HT20) 2412MHz Emission

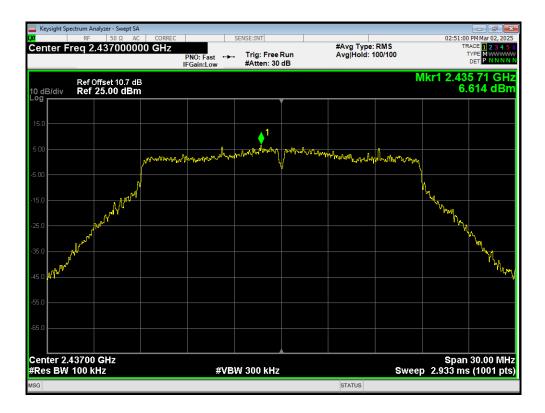


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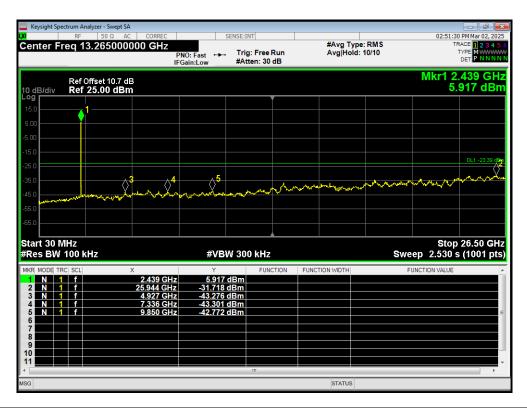
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# Tx. Spurious 802.11n(HT20) 2437MHz Ref



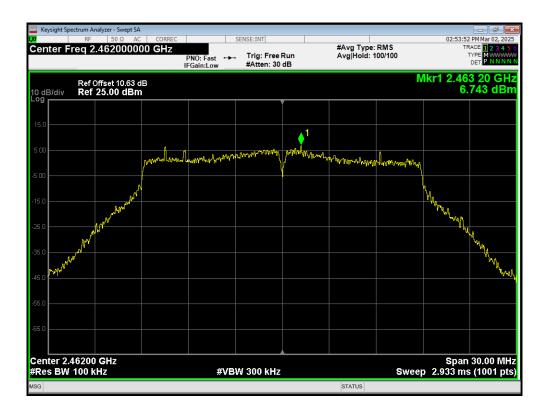
Tx. Spurious 802.11n(HT20) 2437MHz Emission



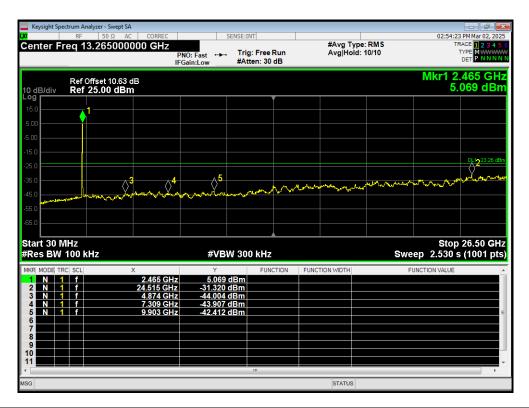
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# Tx. Spurious 802.11n(HT20) 2462MHz Ref

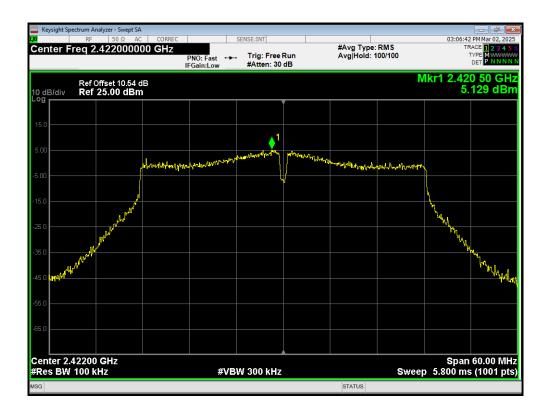


Tx. Spurious 802.11n(HT20) 2462MHz Emission

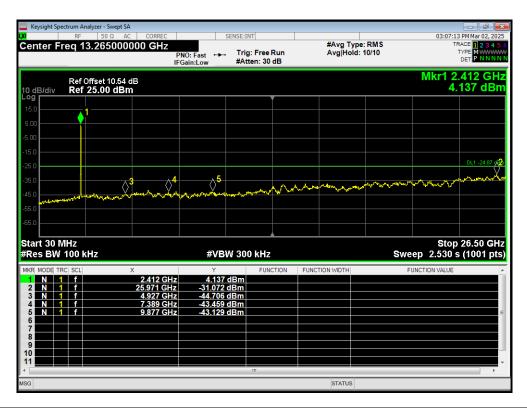


**RF Test Report** 

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

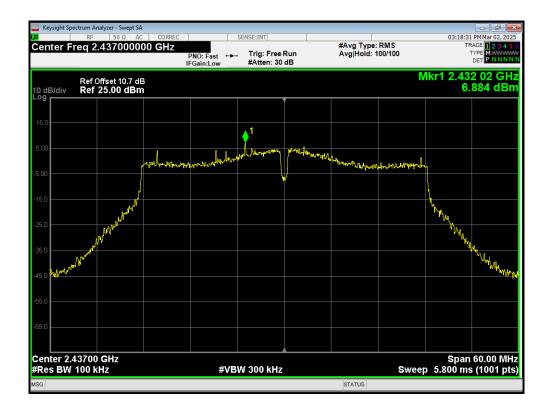


Tx. Spurious 802.11n(HT40) 2422MHz Emission

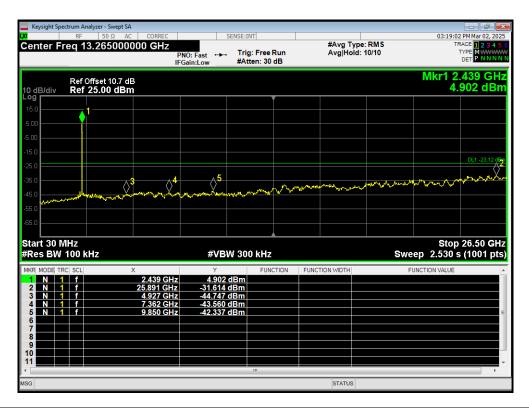




Tx. Spurious 802.11n(HT40) 2437MHz Ref

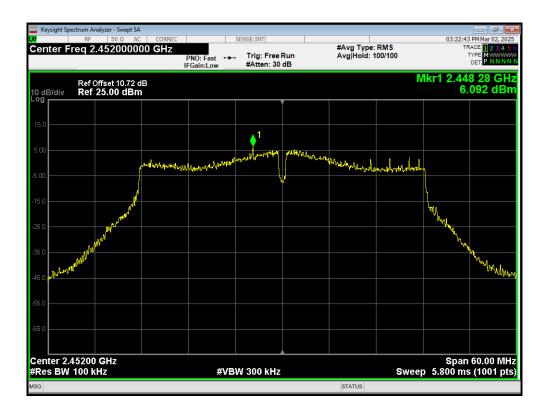


Tx. Spurious 802.11n(HT40) 2437MHz Emission

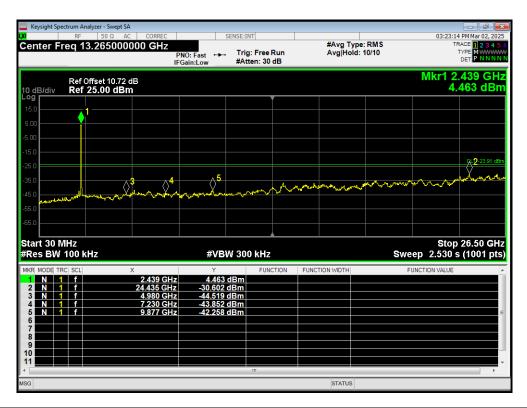


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Tx. Spurious 802.11n(HT40) 2452MHz Ref



Tx. Spurious 802.11n(HT40) 2452MHz Emission





### 5.6. Unwanted Emission

**RF Test Report** 

### **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:

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.)

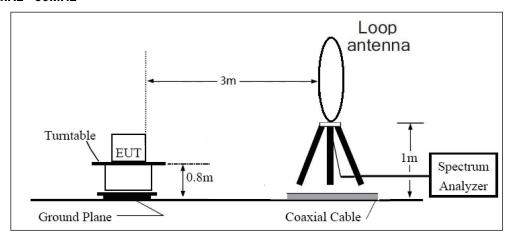
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall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

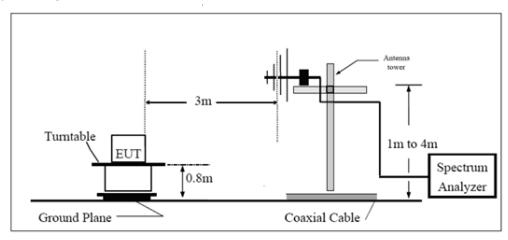


# **Test Setup**

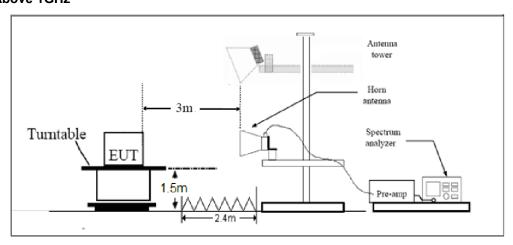
# 9kHz~30MHz



# 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	1
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



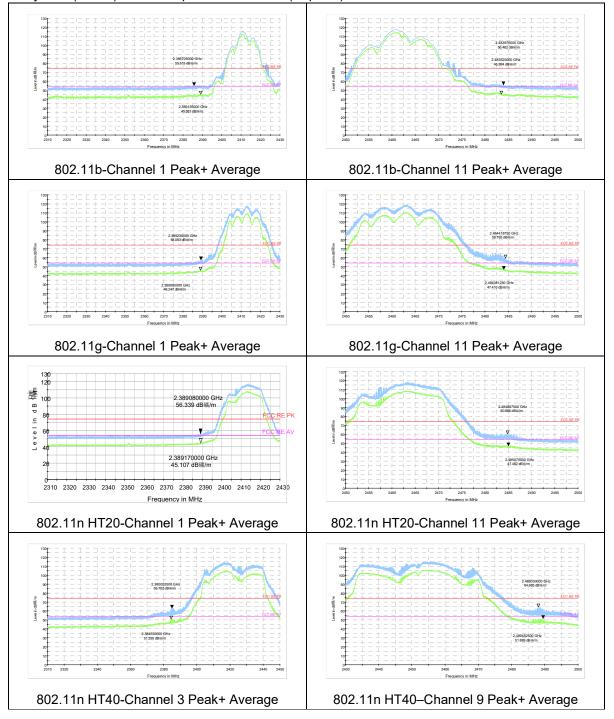
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### **Test Results:**

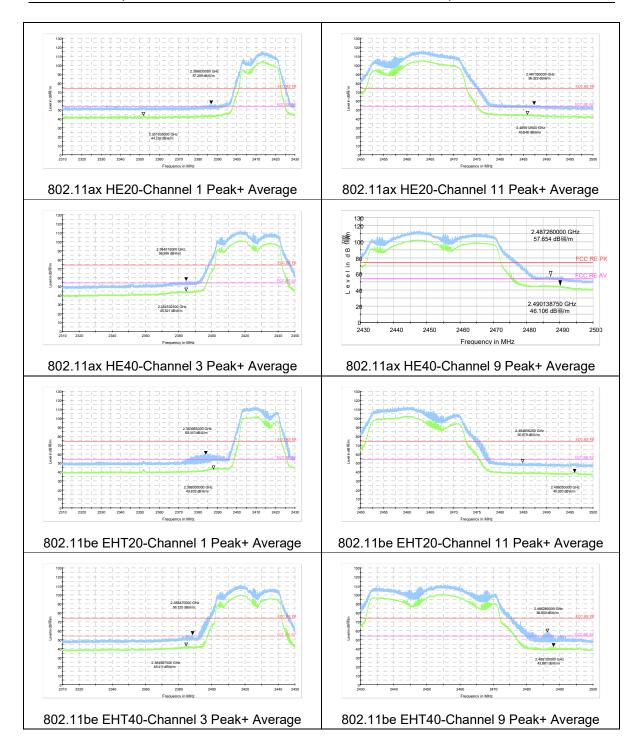
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The following graphs display the maximum values of horizontal and vertical by software. Blue trace uses the peak detection, Green trace uses the average detection.

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







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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.

After the pretest, MIMO was selected as the worst antenna.

### 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 (  $^{dB \pm gV/}$  ) in the test plot below means (dBµV/m)
- 4. For below 1GHz

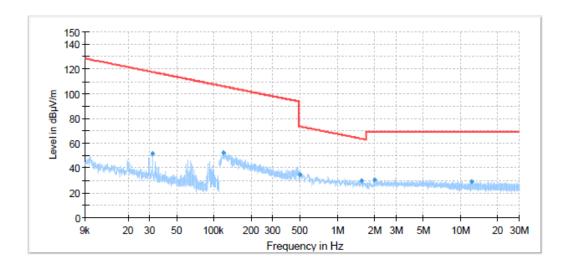




### Wi-Fi 2.4GHz

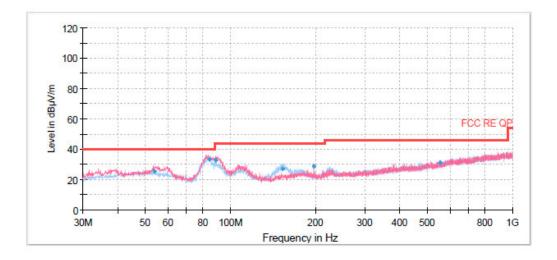
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes, are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

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	IIIai Itos	чіс							
ſ	Frequency	MaxPeak	Limit	Margin	Meas.	Bandwidth	Pol	Azimuth	Corr.
1	(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		(deg)	(dB/m)
ı					(ms)				
	0.03	51.69	117.62	65.92	500.00	0.200	٧	264.00	17
	0.12	52.56	106.05	53.49	150.00	9.000	٧	254.00	17
	0.50	34.60	73.61	39.00	150.00	9.000	٧	166.00	17
	1.58	29.84	63.63	33.79	150.00	9.000	٧	98.00	17
	2.01	30.61	69.50	38.89	150.00	9.000	V	282.00	17
Γ	12.26	29.21	69.50	40.29	150.00	9.000	٧	353.00	17



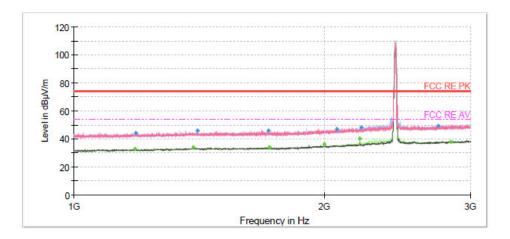


Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.84	25.71	40.00	14.29	1000.00	177.0	V	278.00	20
84.19	33.49	40.00	6.51	1000.00	123.0	V	172.00	15
88.93	32.67	43.50	10.83	1000.00	176.0	V	181.00	17
152.86	26.90	43.50	16.60	1000.00	198.0	Н	290.00	15
198.01	28.69	43.50	14.81	1000.00	222.0	V	138.00	18
553.67	30.94	46.00	15.06	1000.00	110.0	Н	152.00	26

Report No.: EFTA25020129-IE-02-R1

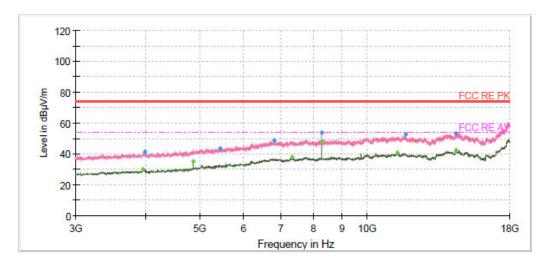
# 802.11b CH6

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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)				
1183.00		32.76	54.00	21.24	500.00	100.0	V	359.00	-4
1187.50	44.26		74.00	29.74	500.00	200.0	Н	253.00	-4
1390.00		33.71	54.00	20.29	500.00	200.0	Н	240.00	-3
1407.50	45.94	-	74.00	28.06	500.00	200.0	Н	204.00	-3
1713.00	45.71		74.00	28.29	500.00	100.0	Н	0.00	-2
1717.25		33.98	54.00	20.02	500.00	100.0	Н	50.00	-2
2000.00		36.16	54.00	17.84	500.00	200.0	Н	140.00	0
2072.00	46.79		74.00	27.21	500.00	100.0	Н	19.00	0
2208.00		40.28	54.00	13.72	500.00	200.0	Н	88.00	1
2219.00	48.39		74.00	25.61	500.00	100.0	Н	70.00	1
2743.00	49.26		74.00	24.74	500.00	100.0	Н	232.00	3
2844.50		37.84	54.00	16.16	500.00	200.0	Н	354.00	3

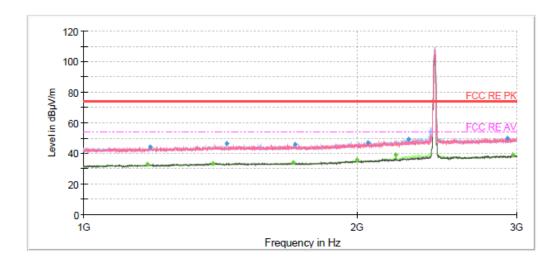




Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3963.75		30.06	54.00	23.94	500.00	100.0	V	0.00	_4
3982.50	41.08		74.00	32.92	500.00	100.0	V	200.00	-4
4873.13		35.36	54.00	18.64	500.00	100.0	Н	8.00	-1
5450.63	43.64		74.00	30.36	500.00	100.0	V	0.00	0
6798.75	48.51		74.00	25.49	500.00	200.0	V	301.00	5
7312.50		38.01	54.00	15.99	500.00	100.0	V	98.00	6
8287.50		47.96	54.00	6.04	500.00	100.0	V	222.00	6
8287.50	53.53	(1 <del></del> )	74.00	20.47	500.00	200.0	V	212.00	6
11300.63		40.70	54.00	13.30	500.00	200.0	V	13.00	9
11701.88	52.44		74.00	21.56	500.00	200.0	Н	353.00	9
14407.50	53.49		74.00	20.51	500.00	100.0	Н	0.00	11
14409.38		42.70	54.00	11.30	500.00	100.0	V	359.00	11



### 802.11g CH6

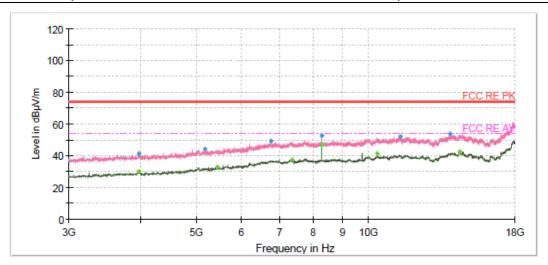


### Final Result

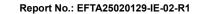
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1176.75		32.70	54.00	21.30	500.00	200.0	٧	0.00	-4
1182.50	44.36	-	74.00	29.64	500.00	200.0	٧	24.00	-4
1386.50		33.50	54.00	20.50	500.00	200.0	Н	179.00	-3
1436.75	46.41		74.00	27.59	500.00	200.0	Н	341.00	-3
1700.00	-	33.91	54.00	20.09	500.00	100.0	Н	212.00	-2
1708.25	45.93	-	74.00	28.07	500.00	200.0	٧	77.00	-2
2000.00		35.42	54.00	18.58	500.00	100.0	Н	0.00	0
2059.50	46.92		74.00	27.08	500.00	100.0	٧	240.00	0
2208.00		39.02	54.00	14.98	500.00	200.0	Н	303.00	1
2283.25	49.41		74.00	24.59	500.00	100.0	Н	291.00	1
2929.75	50.06		74.00	23.94	500.00	100.0	٧	349.00	3
2971.50		39.26	54.00	14.74	500.00	200.0	V	234.00	3

Report No.: EFTA25020129-IE-02-R1



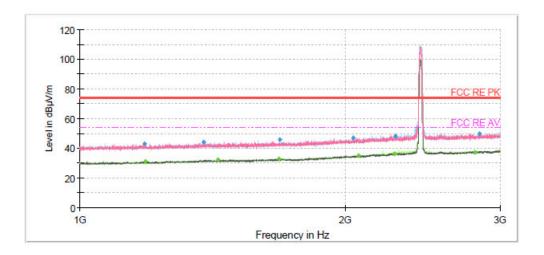


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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
	,	,			(ms)	,		)	
3965.63	-	30.28	54.00	23.72	500.00	200.0	٧	0.00	-3
3965.63	41.08	-	74.00	32.92	500.00	200.0	٧	0.00	-3
5176.88	43.98		74.00	30.02	500.00	100.0	Н	7.00	0
5437.50		32.66	54.00	21.34	500.00	100.0	٧	274.00	0
6765.00	49.02	-	74.00	24.98	500.00	100.0	Н	124.00	5
7335.00		37.36	54.00	16.64	500.00	100.0	Н	1.00	6
8287.50	52.84		74.00	21.16	500.00	100.0	Н	359.00	6
8287.50		47.23	54.00	6.77	500.00	200.0	٧	212.00	6
10359.38		41.04	54.00	12.96	500.00	200.0	٧	304.00	8
11330.63	52.08	-	74.00	21.92	500.00	200.0	Н	352.00	9
13875.00	54.00		74.00	20.00	500.00	100.0	٧	0.00	11
14407.50		42.64	54.00	11.36	500.00	100.0	V	138.00	11

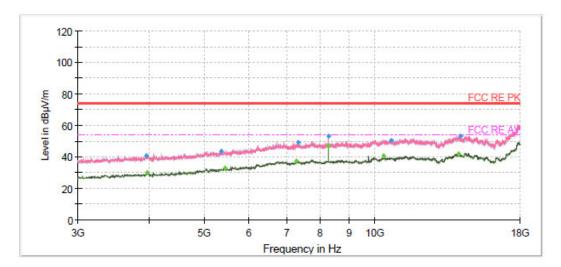


### 802.11n (HT20) CH6

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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time (ms)	(cm)	101	(deg)	(dB/m)
1184.25	42.81		74.00	31.19	500.00	200.0	Н	356.00	-1
1186.00		31.00	54.00	23.00	500.00	100.0	Н	34.00	
1382.75	43.95	-	74.00	30.05	500.00	100.0	V	210.00	
1433.00		32.03	54.00	21.97	500.00	100.0	V	353.00	-
1680.25		32.91	54.00	21.09	500.00	200.0	Н	188.00	-1
1685.50	45.65		74.00	28.35	500.00	200.0	Н	229.00	-1
2041.25	46.96	2013	74.00	27.04	500.00	100.0	Н	92.00	(
2073.25		34.90	54.00	19.10	500.00	200.0	Н	334.00	(
2274.25		36.05	54.00	17.95	500.00	100.0	Н	162.00	1
2280.75	48.30		74.00	25.70	500.00	200.0	Н	106.00	•
2808.75		37.39	54.00	16.61	500.00	100.0	Н	21.00	
2845.00	49.70		74.00	24.30	500.00	100.0	V	190.00	

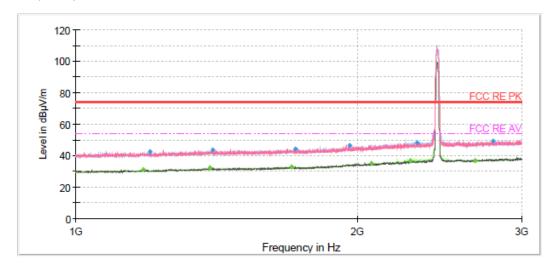


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3963.75	40.87	×	74.00	33.13	500.00	100.0	V	358.00	-4
3965.63		30.12	54.00	23.88	500.00	100.0	Н	10.00	-3
5362.50	43.86		74.00	30.14	500.00	100.0	Н	347.00	0
5437.50		32.90	54.00	21.10	500.00	100.0	V	284.00	0
7271.25		37.45	54.00	16.55	500.00	100.0	Н	101.00	6
7310.63	49.11		74.00	24.89	500.00	100.0	Н	36.00	6
8287.50		47.13	54.00	6.87	500.00	200.0	٧	211.00	6
8287.50	53.00	-	74.00	21.00	500.00	200.0	V	211.00	6
10359.38		40.70	54.00	13.30	500.00	200.0	V	280.00	8
10670.63	50.56	-	74.00	23.44	500.00	200.0	٧	39.00	8
13998.75		41.62	54.00	12.38	500.00	200.0	V	17.00	11
14128.13	53.37	-	74.00	20.63	500.00	200.0	V	315.00	11



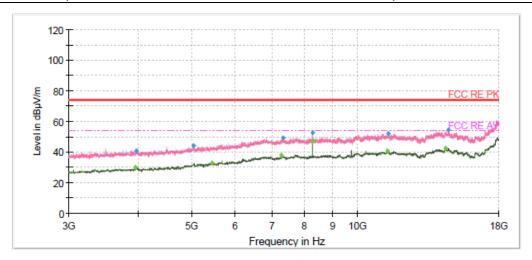
### 802.11n (HT40) CH6

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Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
					(ms)				
1182.25		30.93	54.00	23.07	500.00	200.0	Н	353.00	-4
1199.25	42.28		74.00	31.72	500.00	100.0	٧	349.00	-4
1391.50		32.08	54.00	21.92	500.00	100.0	٧	356.00	-3
1401.00	43.61		74.00	30.39	500.00	200.0	Н	292.00	-3
1702.50		32.82	54.00	21.18	500.00	200.0	٧	0.00	-2
1717.25	44.37		74.00	29.63	500.00	100.0	V	238.00	-2
1962.00	46.62		74.00	27.38	500.00	100.0	Н	0.00	0
2071.25		35.08	54.00	18.92	500.00	200.0	V	26.00	0
2278.75		36.80	54.00	17.20	500.00	200.0	Н	292.00	1
2318.00	47.86		74.00	26.14	500.00	200.0	Н	75.00	1
2673.25		36.86	54.00	17.14	500.00	100.0	Н	1.00	2
2798.00	49.11		74.00	24.89	500.00	100.0	Н	111.00	3

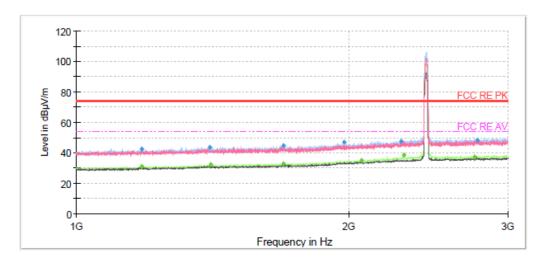




Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
	,				(ms)				
3963.75		30.26	54.00	23.74	500.00	200.0	Н	196.00	-4
3971.25	41.02		74.00	32.99	500.00	200.0	٧	1.00	-3
5041.88	44.08		74.00	29.92	500.00	100.0	٧	356.00	1
5437.50		32.96	54.00	21.05	500.00	200.0	٧	235.00	0
7271.25		37.69	54.00	16.31	500.00	200.0	٧	61.00	6
7314.38	49.01		74.00	24.99	500.00	200.0	Н	100.00	6
8287.50	52.59		74.00	21.41	500.00	100.0	٧	226.00	6
8287.50		47.18	54.00	6.82	500.00	100.0	٧	226.00	6
11317.50		40.64	54.00	13.36	500.00	100.0	٧	0.00	9
11355.00	51.92		74.00	22.08	500.00	100.0	Н	246.00	9
14405.63		42.58	54.00	11.42	500.00	200.0	V	95.00	11
14591.25	54.57		74.00	19.43	500.00	200.0	V	337.00	11

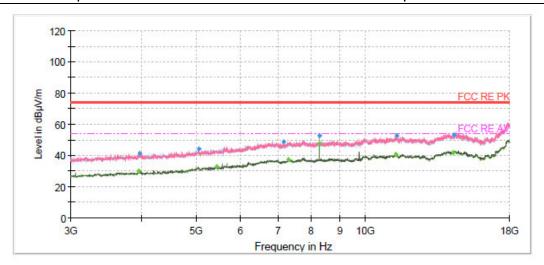
### 802.11ax HE20 CH6

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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)				
1179.75	42.19		74.00	31.81	500.00	100.0	٧	296.00	-4
1180.25		30.96	54.00	23.04	500.00	200.0	Н	0.00	-4
1404.00	43.51		74.00	30.49	500.00	200.0	Н	318.00	-3
1408.50		32.09	54.00	21.91	500.00	200.0	Н	349.00	-3
1695.25	-	32.99	54.00	21.01	500.00	200.0	Н	354.00	-2
1695.50	44.72		74.00	29.28	500.00	100.0	Н	5.00	-2
1978.75	47.10		74.00	26.90	500.00	200.0	Н	345.00	0
2066.50		35.12	54.00	18.88	500.00	100.0	Н	40.00	0
2286.00	47.68		74.00	26.32	500.00	100.0	Н	18.00	1
2303.75		38.38	54.00	15.62	500.00	200.0	Н	80.00	1
2756.00		37.08	54.00	16.92	500.00	100.0	Н	18.00	3
2775.75	47.85		74.00	26.15	500.00	200.0	Н	357.00	3



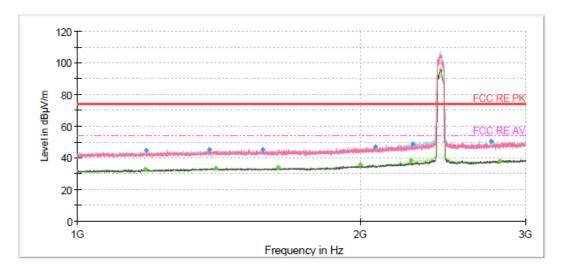


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3963.75		30.18	54.00	23.82	500.00	200.0	Н	350.00	-4
3967.50	41.23		74.00	32.77	500.00	200.0	V	303.00	-3
5051.25	44.11		74.00	29.89	500.00	200.0	Н	35.00	0
5437.50		32.67	54.00	21.33	500.00	100.0	V	0.00	0
7153.13	48.58		74.00	25.42	500.00	100.0	Н	194.00	5
7303.13		37.50	54.00	16.50	500.00	200.0	٧	5.00	6
8287.50		47.53	54.00	6.47	500.00	200.0	٧	213.00	6
8287.50	52.71	-	74.00	21.29	500.00	200.0	٧	213.00	6
11315.63		40.91	54.00	13.09	500.00	100.0	V	194.00	9
11347.50	52.48	-	74.00	21.52	500.00	200.0	Н	282.00	9
14317.50		41.81	54.00	12.19	500.00	100.0	V	239.00	11
14353.13	53.17		74.00	20.83	500.00	200.0	V	36.00	11



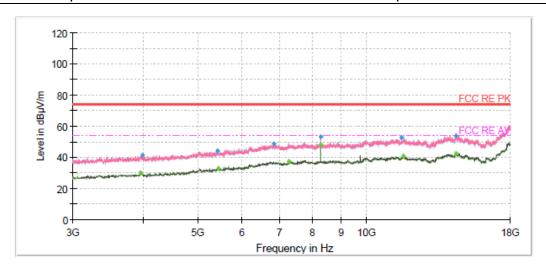
#### 802.11ax HE40 CH6

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I IIIai Itos	MIC.								
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
1181.75		32.58	54.00	21.42	500.00	200.0	٧	297.00	-4
1184.75	44.56		74.00	29.44	500.00	200.0	V	287.00	-4
1383.00	45.31		74.00	28.69	500.00	200.0	٧	22.00	-3
1405.50		33.40	54.00	20.60	500.00	200.0	Н	222.00	-3
1575.00	45.31		74.00	28.69	500.00	100.0	H	154.00	-2
1635.50		33.98	54.00	20.02	500.00	100.0	Н	3.00	-2
2000.00		35.55	54.00	18.45	500.00	100.0	Н	144.00	0
2078.75	46.96		74.00	27.04	500.00	200.0	Н	0.00	0
2265.75		38.39	54.00	15.61	500.00	100.0	Н	295.00	1
2278.00	48.62		74.00	25.38	500.00	200.0	Н	292.00	1
2759.25	50.31		74.00	23.69	500.00	200.0	Н	192.00	3
2816.00		37.70	54.00	16.30	500.00	200.0	V	217.00	3



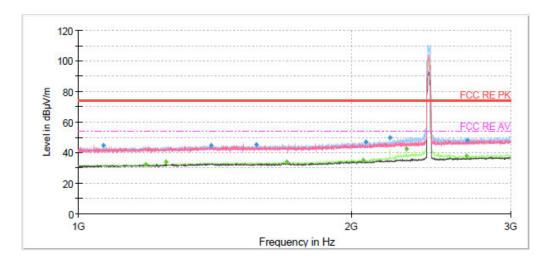


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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3963.75	-	30.08	54.00	23.92	500.00	200.0	Н	13.00	-4
3980.63	41.34		74.00	32.66	500.00	200.0	Н	280.00	-3
5415.00	43.95		74.00	30.05	500.00	200.0	Н	158.00	0
5441.25		32.88	54.00	21.12	500.00	200.0	V	169.00	0
6840.00	48.63	-	74.00	25.37	500.00	100.0	٧	359.00	4
7269.38	-	37.53	54.00	16.47	500.00	100.0	V	315.00	6
8287.50	53.45		74.00	20.55	500.00	100.0	V	225.00	6
8287.50		48.31	54.00	5.69	500.00	100.0	V	225.00	6
11514.38	52.71		74.00	21.29	500.00	100.0	Н	348.00	9
11623.13		40.72	54.00	13.28	500.00	100.0	V	340.00	9
14403.75		42.56	54.00	11.44	500.00	200.0	V	11.00	11
14428.13	53.63		74.00	20.37	500.00	100.0	Н	111.00	11



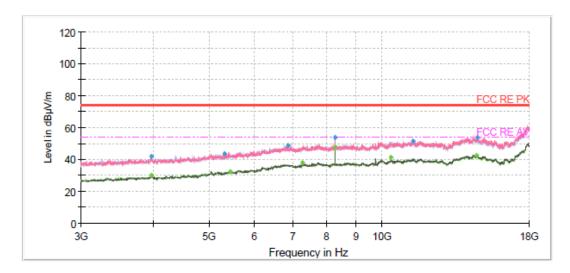
#### 802.11be EHT20 CH6

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4004.75			7.00		(ms)	100.0			_
1064.75	44.44		74.00	29.56	500.00	100.0		0.00	-5
1186.25		32.53	54.00	21.47	500.00	100.0	Н	128.00	-4
1250.00	<u> 2004</u>	33.76	54.00	20.24	500.00	100.0	Н	21.00	-4
1400.50	44.87		74.00	29.13	500.00	100.0	Н	43.00	-3
1572.50	45.16		74.00	28.84	500.00	200.0	Н	319.00	-2
1697.00		34.06	54.00	19.94	500.00	100.0	Н	0.00	-2
2063.00		35.31	54.00	18.69	500.00	100.0	Н	0.00	0
2075.75	46.96		74.00	27.04	500.00	100.0	Н	5.00	0
2208.00	49.61		74.00	24.39	500.00	200.0	H	267.00	1
2304.00	20	42.67	54.00	11.33	500.00	100.0	Н	288.00	1
2678.00	222	37.87	54.00	16.13	500.00	100.0	Н	119.00	2
2689.25	48.15		74.00	25.85	500.00	200.0	H	359.00	2

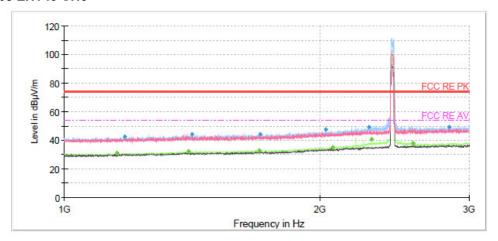




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Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3969.38		30.21	54.00	23.79	500.00	200.0	V	184.00	-3
3976.88	41.86		74.00	32.14	500.00	200.0	Н	238.00	-3
5326.88	43.83		74.00	30.17	500.00	100.0	Н	1.00	0
5437.50		32.50	54.00	21.50	500.00	200.0	٧	15.00	0
6858.75	48.92		74.00	25.08	500.00	200.0	Н	266.00	4
7271.25	-	37.71	54.00	16.29	500.00	100.0	٧	160.00	6
8287.50	53.66		74.00	20.34	500.00	100.0	V	113.00	6
8287.50		47.33	54.00	6.67	500.00	100.0	V	113.00	6
10359.38		41.36	54.00	12.64	500.00	200.0	V	137.00	8
11311.88	51.72		74.00	22.28	500.00	100.0	V	262.00	9
14587.50		42.38	54.00	11.62	500.00	200.0	V	11.00	11
14630.63	53.76		74.00	20.24	500.00	200.0	Н	333.00	11

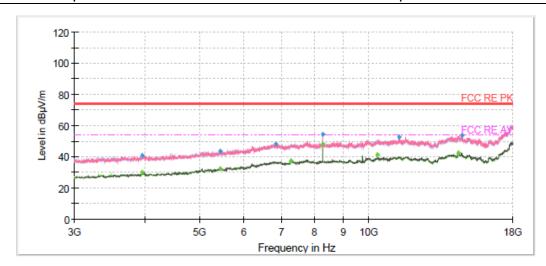


#### 802.11be EHT40 CH6



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1153.25		31.11	54.00	22.89	500.00	100.0	Н	122.00	-5
1177.75	42.48		74.00	31.52	500.00	200.0	Н	358.00	-4
1402.00		32.17	54.00	21.83	500.00	100.0	Н	1.00	-3
1413.75	43.89		74.00	30.11	500.00	100.0	V	46.00	-3
1699.75		32.82	54.00	21.18	500.00	100.0	Н	160.00	-2
1703.75	44.37		74.00	29.63	500.00	100.0	Н	3.00	-2
2035.75	47.60		74.00	26.40	500.00	200.0	Н	322.00	0
2071.00		35.08	54.00	18.92	500.00	100.0	Н	247.00	0
2286.25	49.07		74.00	24.93	500.00	100.0	H	277.00	1
2303.75		40.92	54.00	13.08	500.00	100.0	Н	247.00	1
2574.00		37.77	54.00	16.23	500.00	200.0	Н	316.00	3
2844.50	49.07		74.00	24.93	500.00	100.0	Н	13.00	3

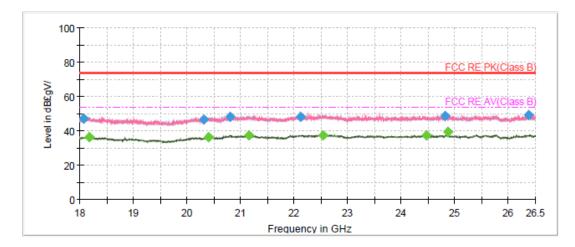




I IIIui Itos	MIC.								
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
					(ms)				
3958.13	40.84		74.00	33.16	500.00	200.0	V	109.00	-4
3961.88		30.09	54.00	23.91	500.00	100.0	V	161.00	-4
5437.50		32.34	54.00	21.66	500.00	100.0	٧	95.00	0
5439.38	43.82		74.00	30.18	500.00	100.0	٧	88.00	0
6843.75	48.27		74.00	25.73	500.00	200.0	Н	256.00	4
7275.00	-	37.20	54.00	16.80	500.00	200.0	Н	0.00	6
8287.50	54.09		74.00	19.91	500.00	100.0	V	109.00	6
8287.50		48.30	54.00	5.70	500.00	100.0	٧	109.00	6
10359.38		41.57	54.00	12.43	500.00	100.0	٧	262.00	8
11315.63	52.82		74.00	21.18	500.00	200.0	٧	0.00	9
14400.00	-	42.36	54.00	11.64	500.00	200.0	V	51.00	11
14615.63	53.59		74.00	20.41	500.00	100.0	V	81.00	11



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



I IIIui_Itosu									
Frequency	MaxPeak	Average	Limit	Margin	Meas.	Height	Pol	Azimuth	Corr.
(MHz)	(dB£qV/m)	(dB£gV/m)	(dB£qV/m)	(dB)	Time	(cm)		(deg)	(dB/m)
(	(	(	(	()	(ms)	()		(==5)	(/
18068.742500	47.31		74.00	26.69	500.0	100.0	٧	64.0	-5.7
18173.622500		36.26	54.00	17.74	500.0	200.0	٧	328.0	-5.8
20316.355000	46.63		74.00	27.37	500.0	200.0	Н	199.0	-5.5
20398.736250		36.36	54.00	17.64	500.0	100.0	Н	359.0	-5.2
20812.536250	48.21		74.00	25.79	500.0	200.0	٧	207.0	-4.7
21156.300000	-	37.29	54.00	16.71	500.0	200.0	٧	90.0	-4.2
22124.740000	48.25		74.00	25.75	500.0	200.0	H	102.0	-3.7
22535.060000	-	37.34	54.00	16.66	500.0	200.0	H	301.0	-3.4
24461.388750	-	37.19	54.00	16.81	500.0	200.0	٧	211.0	-3.1
24825.256250	48.70		74.00	25.30	500.0	100.0	٧	196.0	-2.8
24863.972500	-	39.31	54.00	14.69	500.0	200.0	V	105.0	-2.8
26379.312500	49.12		74.00	24.88	500.0	200.0	V	238.0	-2.2



#### 5.7. Conducted Emission

#### **Ambient Condition**

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

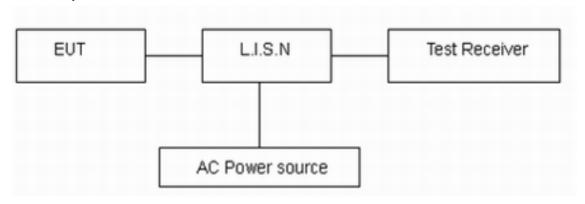
#### **Methods of Measurement**

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

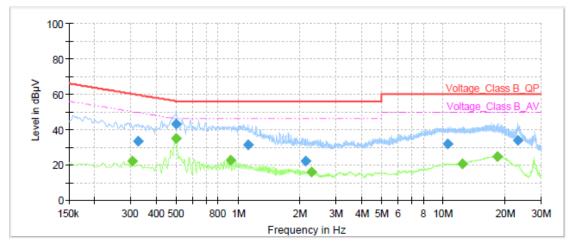
Frequency	Conducted Limits(dBμV)						
(MHz)	Quasi-peak	Average					
0.15 - 0.5	66 to 56 *	56 to 46*					
0.5 - 5	56	46					
5 - 30	60	50					
*: Decreases with the logarithm of the frequency.							

#### **Measurement Uncertainty**

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

#### **Test Results:**

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

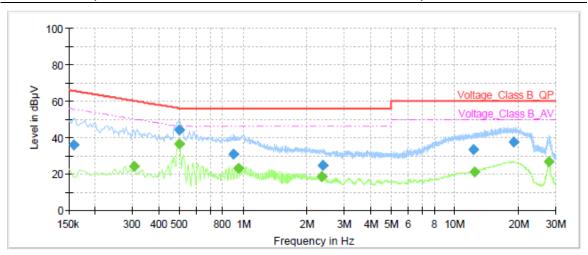


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.305250		22.26	50.10	27.84	1000.0	9.000	L1	ON	20.9
0.325500	33.24		59.57	26.32	1000.0	9.000	L1	ON	20.9
0.498750		34.78	46.02	11.24	1000.0	9.000	L1	ON	20.8
0.501000	43.04		56.00	12.96	1000.0	9.000	L1	ON	20.8
0.915000		22.57	46.00	23.43	1000.0	9.000	L1	ON	20.2
1.119750	31.44		56.00	24.56	1000.0	9.000	L1	ON	20.1
2.127750	21.91		56.00	34.09	1000.0	9.000	L1	ON	19.6
2.267250		15.76	46.00	30.24	1000.0	9.000	L1	ON	19.6
10.556250	31.80		60.00	28.20	1000.0	9.000	L1	ON	19.4
12.390000		20.57	50.00	29.43	1000.0	9.000	L1	ON	19.4
18.341250		24.59	50.00	25.41	1000.0	9.000	L1	ON	19.6
23.183250	34.05		60.00	25.95	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

**RF Test Report** Report No.: EFTA25020129-IE-02-R1



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	36.15		65.52	29.37	1000.0	9.000	N	ON	20.9
0.305250		23.89	50.10	26.21	1000.0	9.000	N	ON	20.9
0.498750		36.64	46.02	9.38	1000.0	9.000	N	ON	20.8
0.501000	44.04		56.00	11.96	1000.0	9.000	N	ON	20.8
0.903750	30.80		56.00	25.20	1000.0	9.000	N	ON	20.2
0.946500		23.06	46.00	22.94	1000.0	9.000	N	ON	20.2
2.359500		18.36	46.00	27.64	1000.0	9.000	N	ON	19.6
2.379750	24.81		56.00	31.19	1000.0	9.000	N	ON	19.6
12.216750	33.46		60.00	26.54	1000.0	9.000	N	ON	19.5
12.394500		21.12	50.00	28.88	1000.0	9.000	N	ON	19.5
18.969000	37.34		60.00	22.66	1000.0	9.000	N	ON	19.7
27.710250		26.44	50.00	23.56	1000.0	9.000	N	ON	19.9

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

### 6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2024-05-07	2025-05-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2024-05-07	2025-05-06
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	MWPA.CN	MWLA-010 200G40	YQ2103039B 01	2024-05-07	2025-05-06
Software	R&S	EMC32	9.26.01	1	1
EMI Test Receiver	R&S	ESR	102721	2024-05-07	2025-05-06
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01615	2023-10-19	2026-10-18
Signal Analyzer	R&S	FSV3044	103495	2024-05-07	2025-05-06
Horn Antenna	R&S	HF907	102724	2024-7-23	2027-7-22
Software	R&S	ELEKTRA	5.02.1	1	1
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06
Software	R&S	EMC32	10.35.10	1	1

# **ANNEX A: The EUT Appearance**

The EUT Appearance are submitted separately.

# **ANNEX B: Test Setup Photos**

The Test Setup Photos are submitted separately.

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