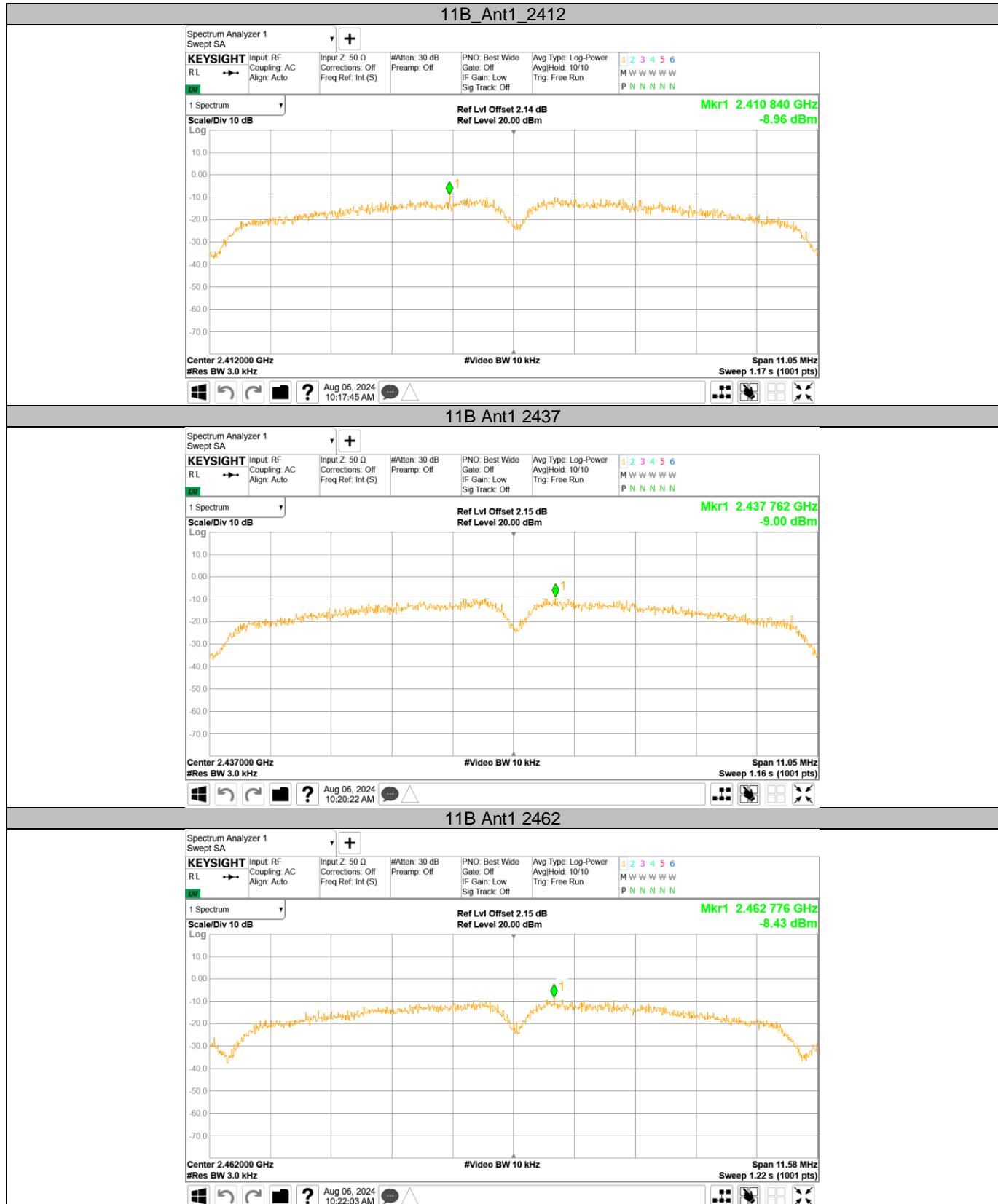




Power spectral density









9.5 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



Spurious RF conducted emissions

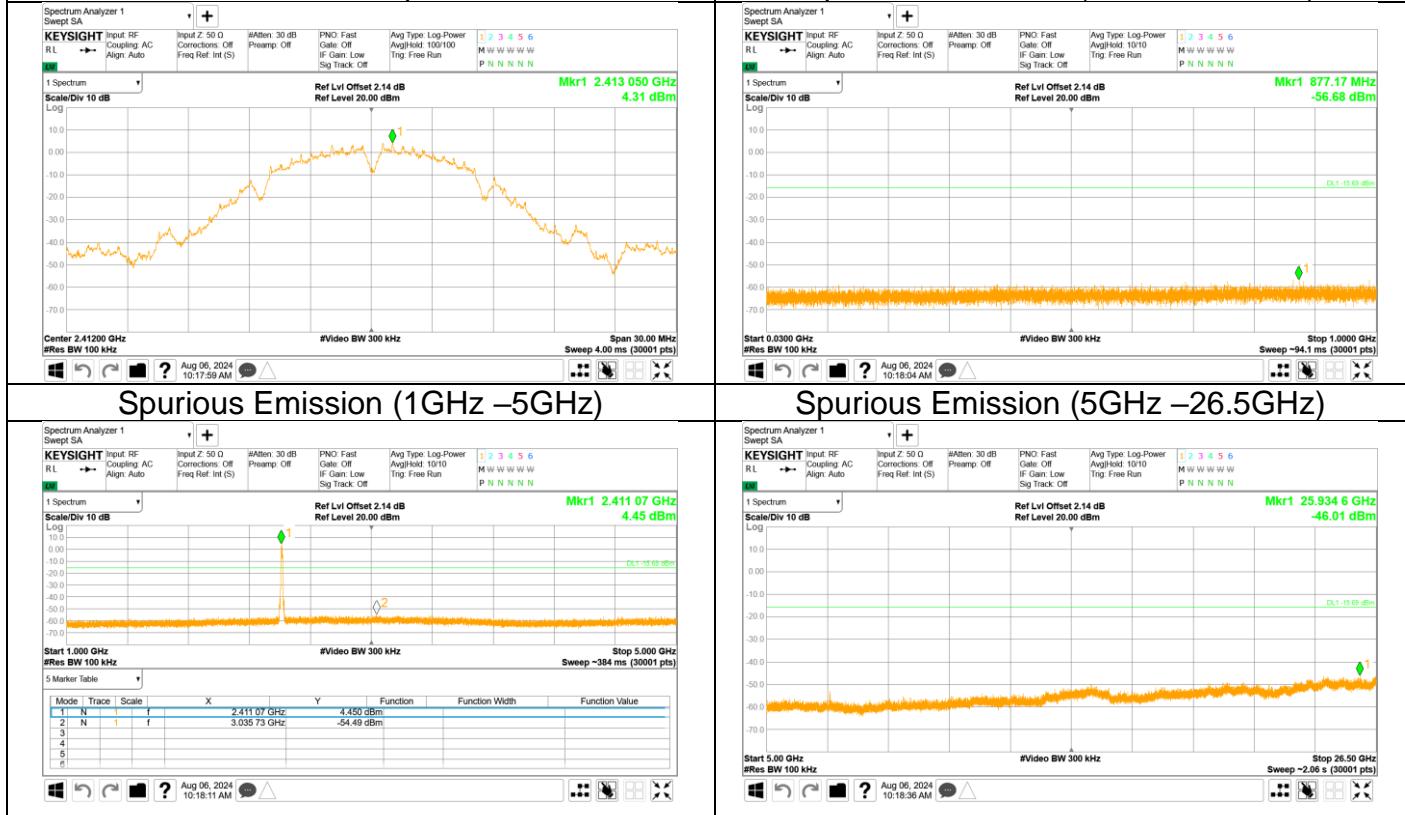
802.11 B Ant1

Out-of-Band Emissions

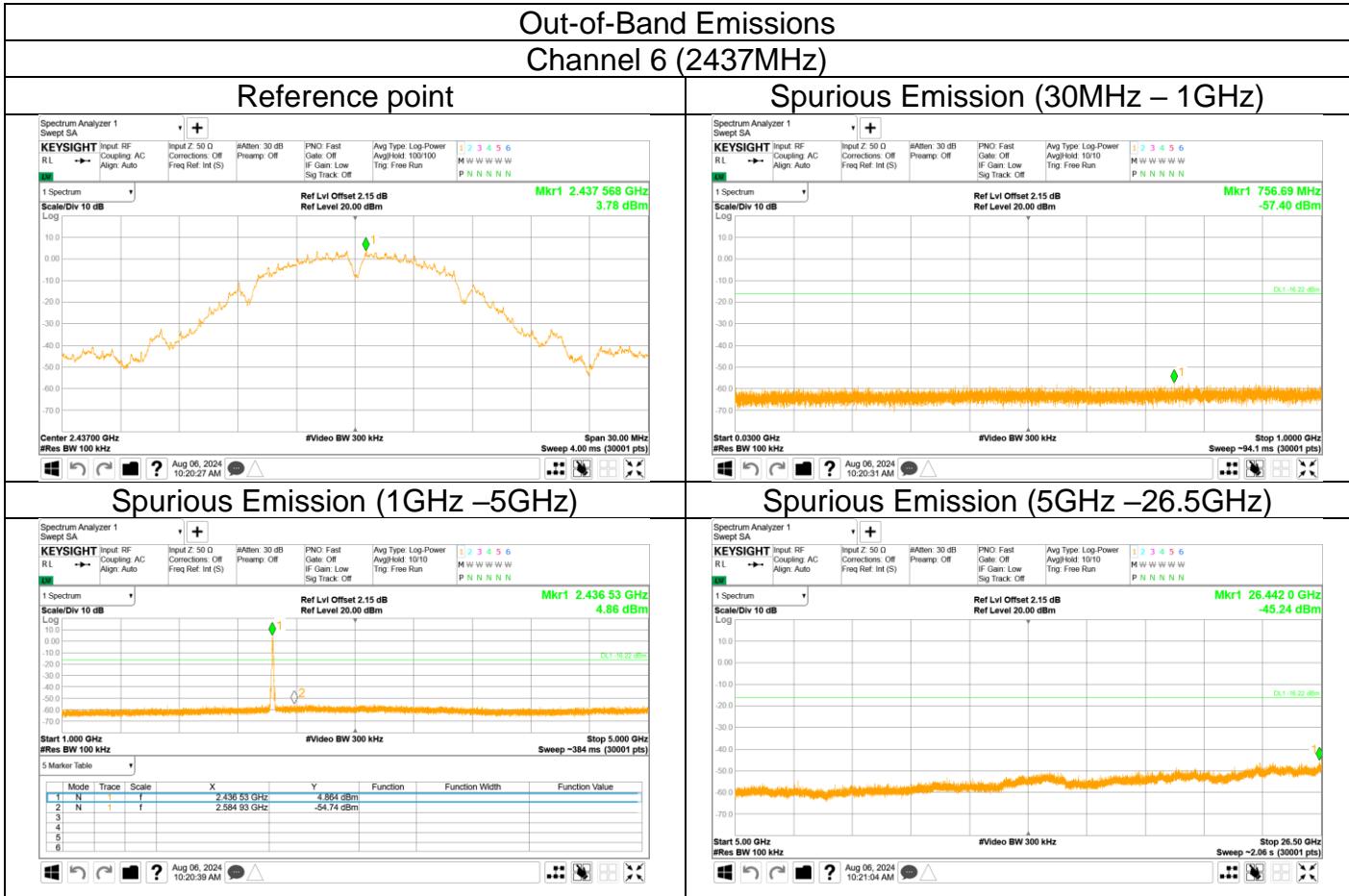
Channel 1 (2412MHz)

Reference point

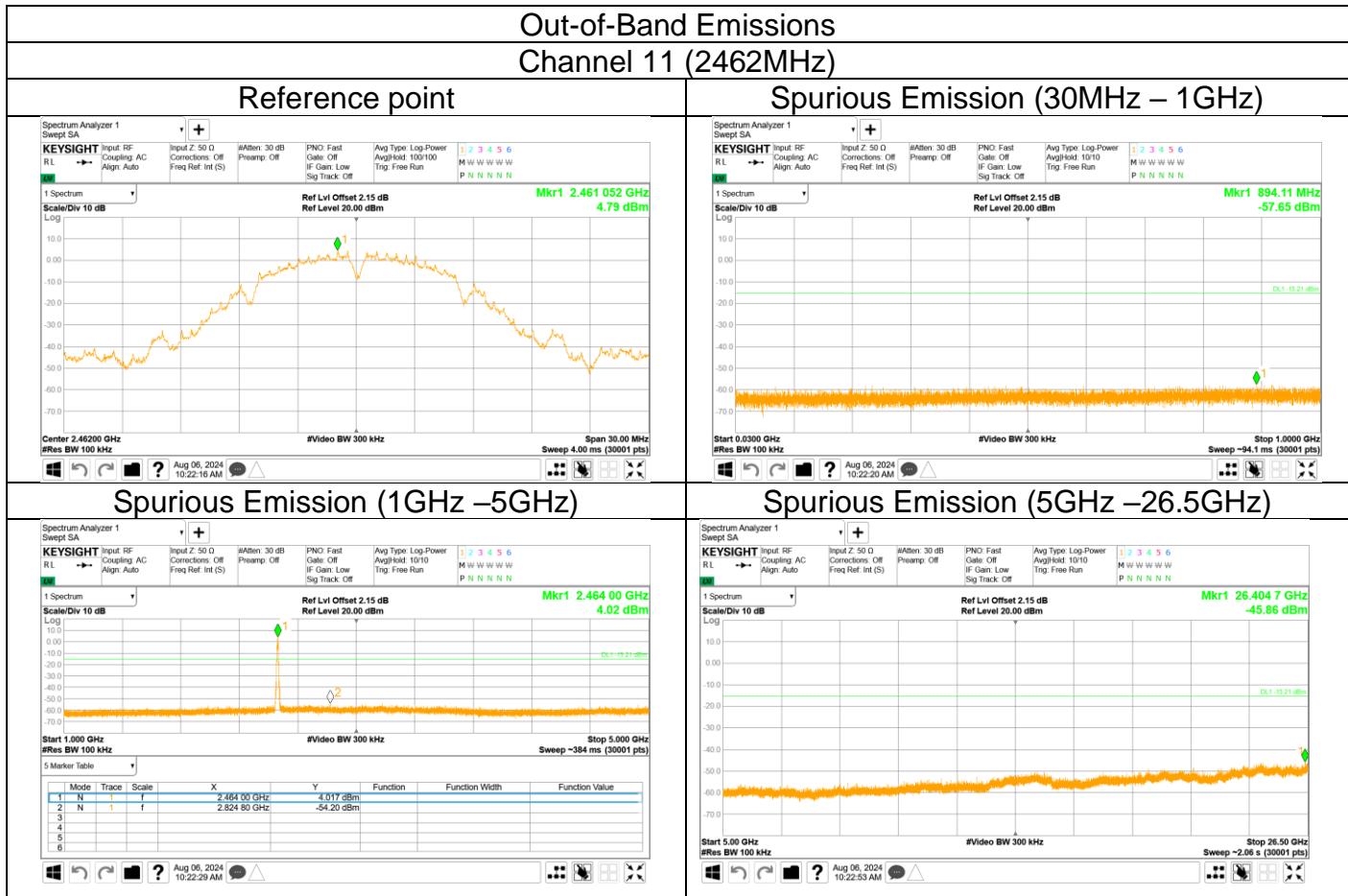
Spurious Emission (30MHz – 1GHz)



Note: The emission which exceed the limit is the fundamental.



Note: The emission which exceed the limit is the fundamental.



Note: The emission which exceed the limit is the fundamental.

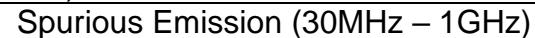
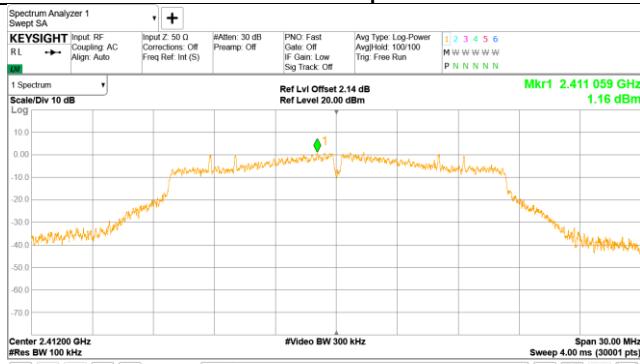


802.11 G Ant1

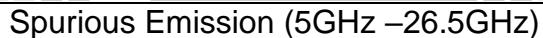
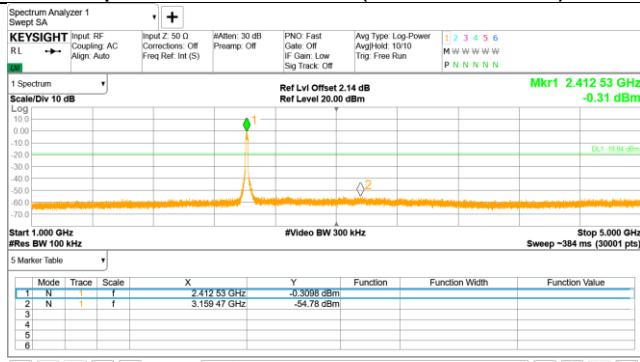
Out-of-Band Emissions

Channel 1 (2412MHz)

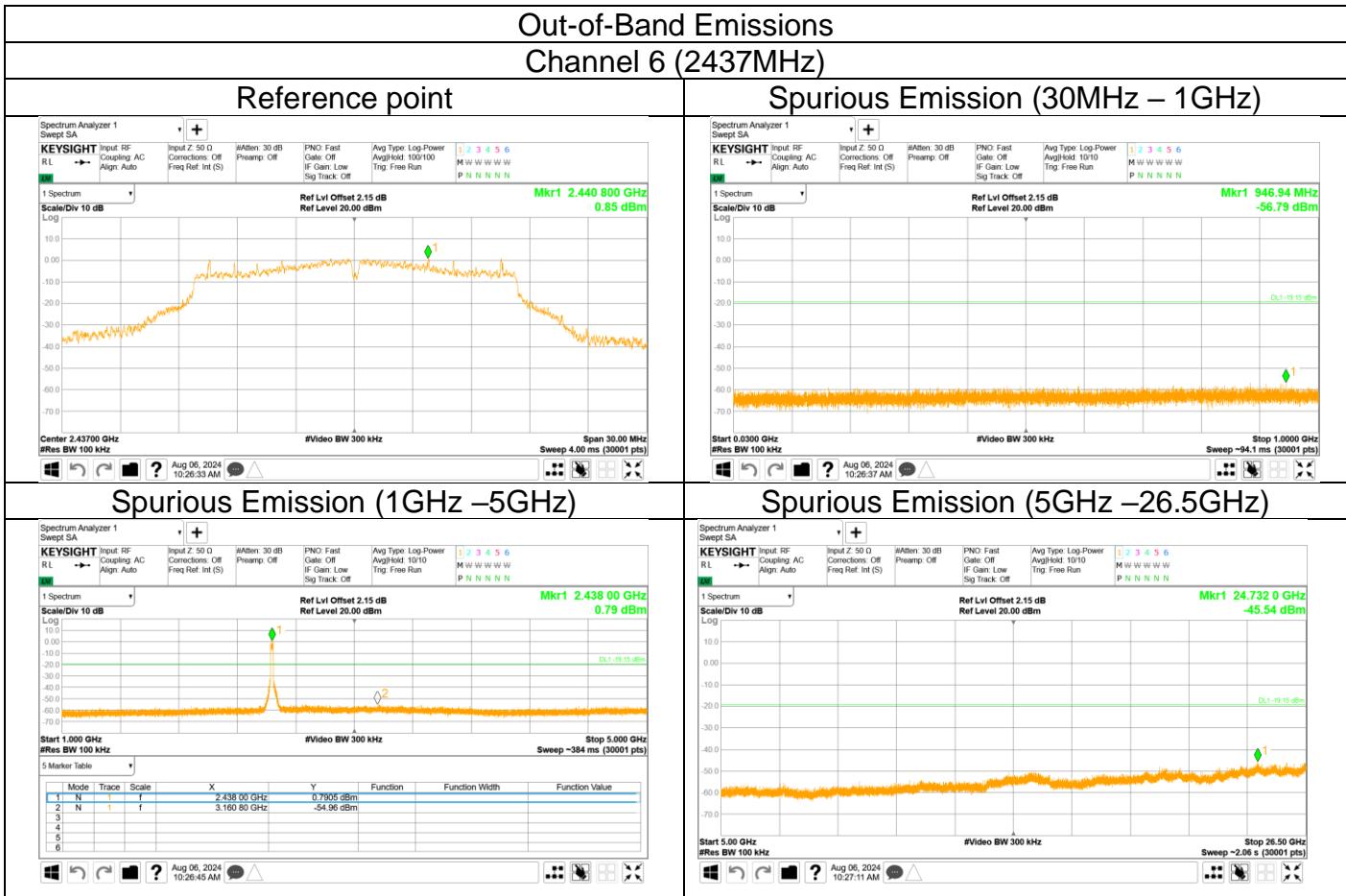
Reference point



Spurious Emission (1GHz –5GHz)



Note: The emission which exceed the limit is the fundamental.



Note: The emission which exceed the limit is the fundamental.



Out-of-Band Emissions Channel 11 (2462MHz)

Out-of-Band Emissions
Channel 11 (2462MHz)

Reference point

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: Coupling: AC
R.L. → Coupling: Off
Freq Ref Int (S) Align: Auto

Input Z: 50 Ω
#Atten: 30 dB
P/N Fast: Gate: Off
IF Gain: Low
Avg Type: Log-Power
Avg/Hold: 100/100
Trig: Free Run

Scale/Div 10 dB
Log

1 Spectrum
Ref Lvl Offset 2.15 dB
Ref Level 20.00 dBm
Mkr1 2.462 688 GHz 2.05 dBm

Center 2.46200 GHz
#Res BW 100 kHz
Start 0.03000 GHz
#Res BW 100 kHz

Aug 06, 2024 10:29:25 AM

Span 30.00 MHz
Sweep 4.00 ms (30001 pts)

Stop 1.0000 GHz
Sweep -3.00 ms (30001 pts)

DL1-17.95 dBm

Spurious Emission (30MHz – 1GHz)

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: Coupling: AC
R.L. → Coupling: Off
Freq Ref Int (S) Align: Auto

Input Z: 50 Ω
#Atten: 30 dB
P/N Fast: Gate: Off
IF Gain: Low
Avg Type: Log-Power
Avg/Hold: 10/10
Trig: Free Run

Scale/Div 10 dB
Log

1 Spectrum
Ref Lvl Offset 2.15 dB
Ref Level 20.00 dBm
Mkr1 908.72 MHz -57.41 dBm

Start 0.03000 GHz
#Res BW 100 kHz
Stop 1.0000 GHz
Sweep -3.00 ms (30001 pts)

DL1-17.95 dBm

Spurious Emission (1GHz – 5GHz)

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: Coupling: AC
R.L. → Coupling: Off
Freq Ref Int (S) Align: Auto

Input Z: 50 Ω
#Atten: 30 dB
P/N Fast: Gate: Off
IF Gain: Low
Avg Type: Log-Power
Avg/Hold: 10/10
Trig: Free Run

Scale/Div 10 dB
Log

1 Spectrum
Ref Lvl Offset 2.15 dB
Ref Level 20.00 dBm
Mkr1 2.462 93 GHz 1.30 dBm

Start 1.000 GHz
#Res BW 100 kHz
Stop 5.000 GHz
Sweep -384 ms (30001 pts)

DL1-17.95 dBm

Spurious Emission (5GHz – 26.5GHz)

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: Coupling: AC
R.L. → Coupling: Off
Freq Ref Int (S) Align: Auto

Input Z: 50 Ω
#Atten: 30 dB
P/N Fast: Gate: Off
IF Gain: Low
Avg Type: Log-Power
Avg/Hold: 10/10
Trig: Free Run

Scale/Div 10 dB
Log

1 Spectrum
Ref Lvl Offset 2.15 dB
Ref Level 20.00 dBm
Mkr1 26.452 7 GHz -45.57 dBm

Start 5.000 GHz
#Res BW 100 kHz
Stop 26.500 GHz
Sweep -2.06 s (30001 pts)

DL1-17.95 dBm

Note: The emission which exceed the limit is the fundamental.



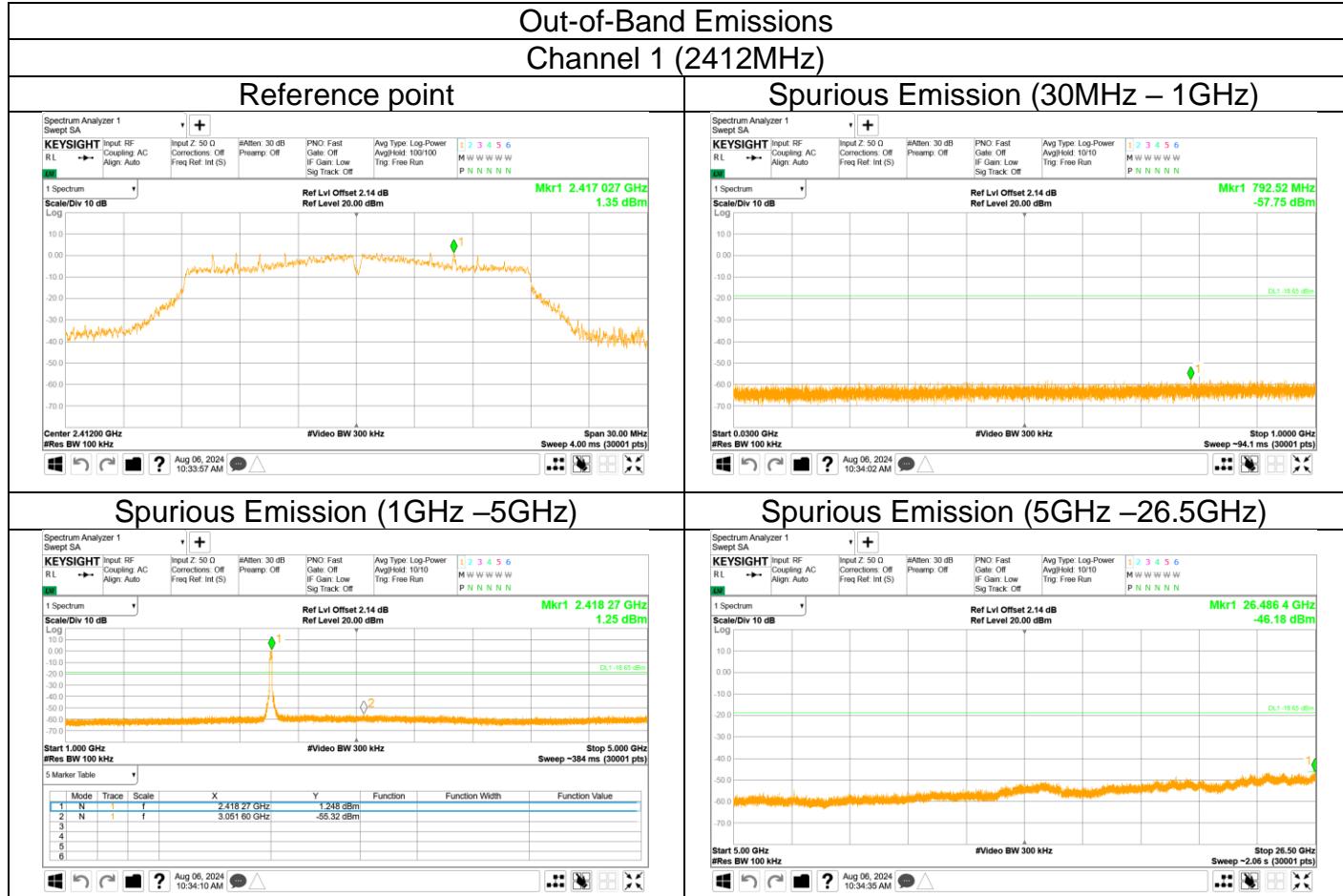
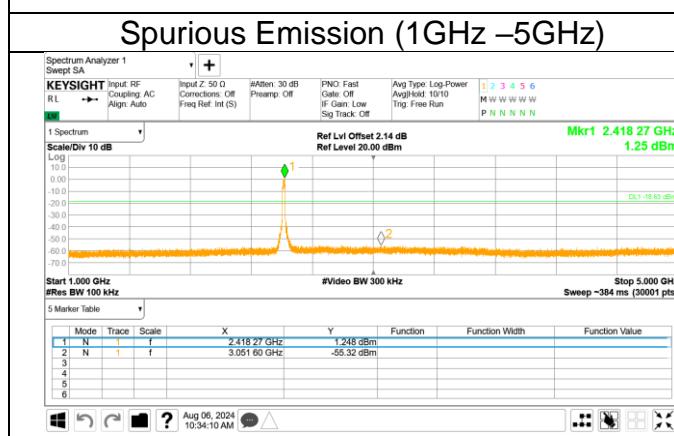
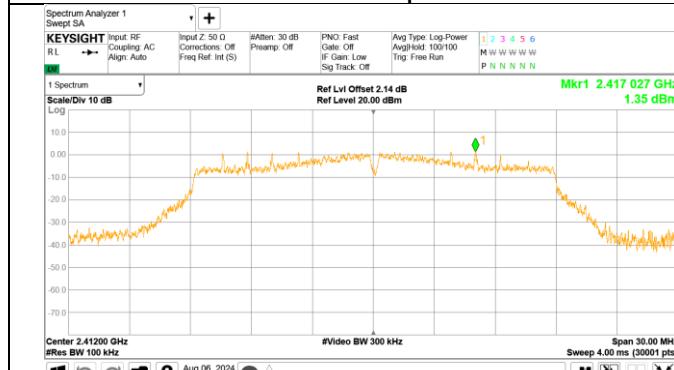
802.11 N20 Ant1

Out-of-Band Emissions

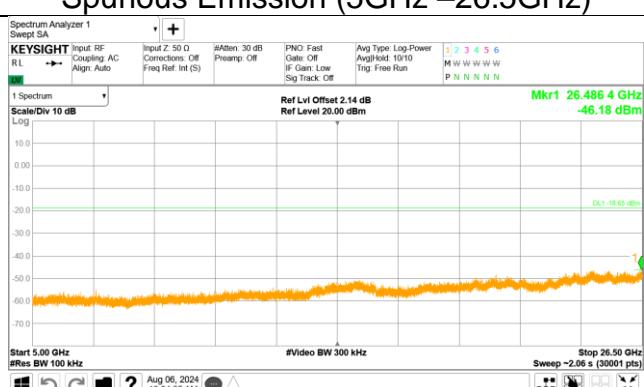
Channel 1 (2412MHz)

Reference point

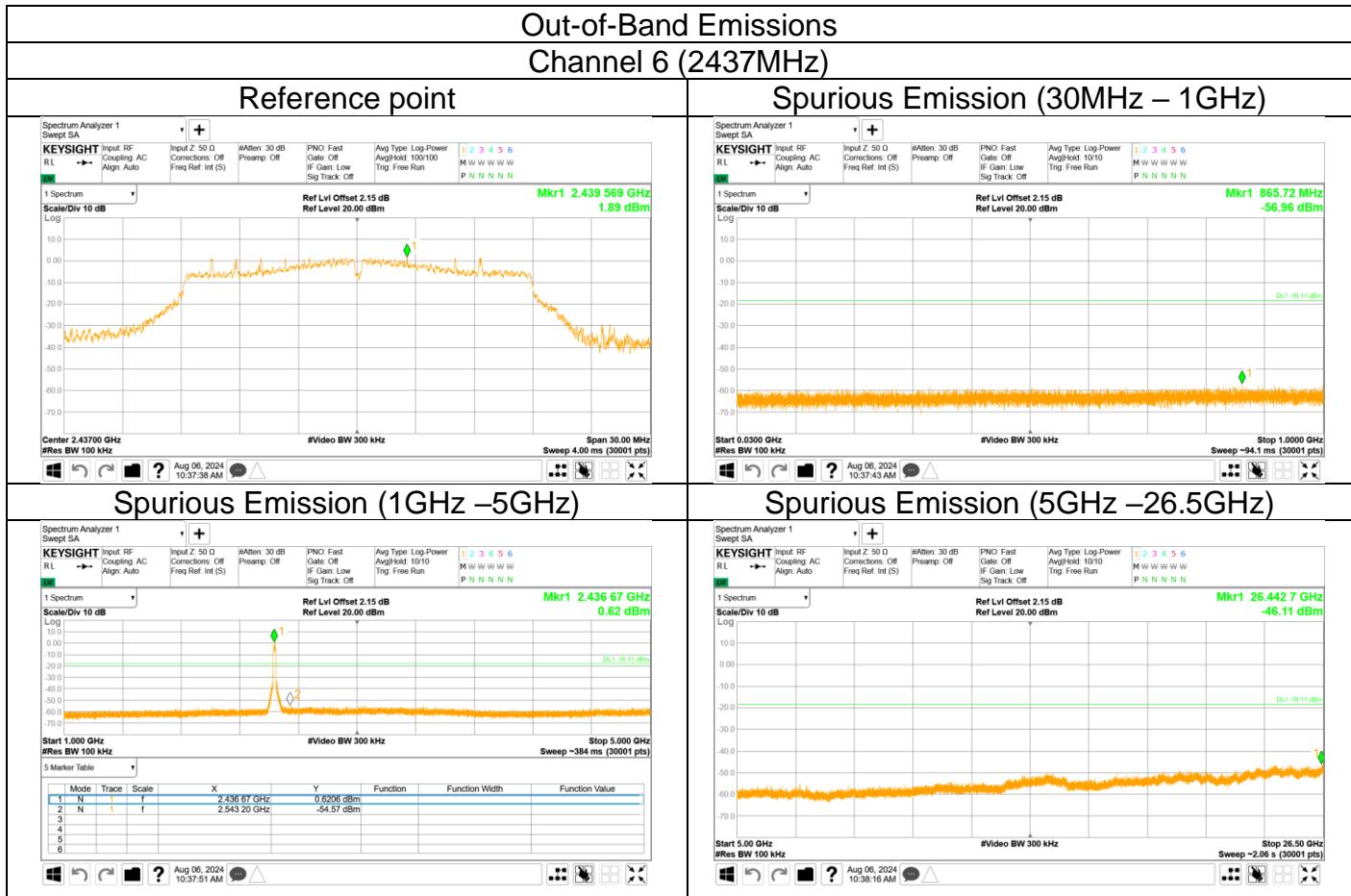
Spurious Emission (30MHz – 1GHz)



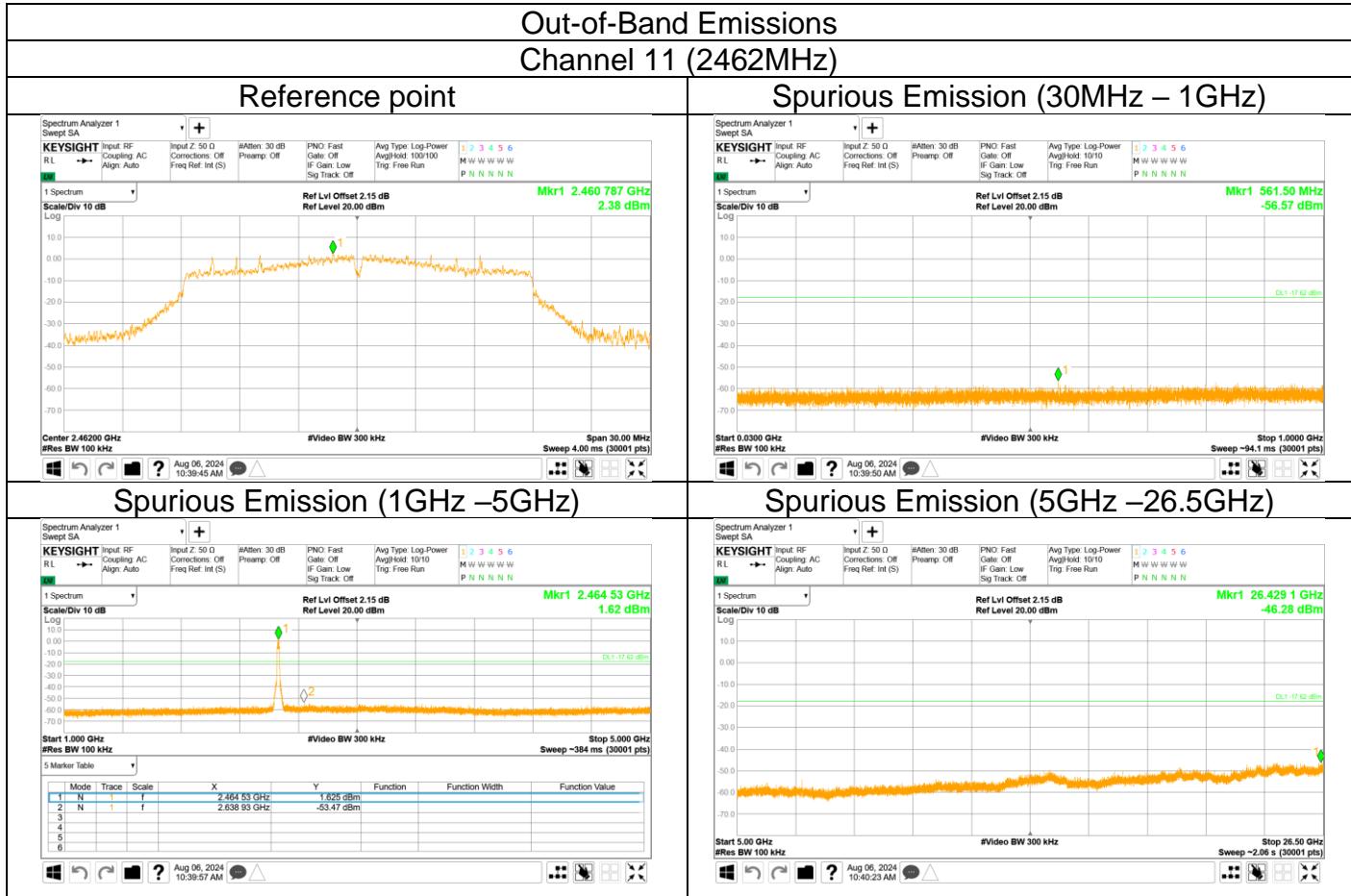
Spurious Emission (1GHz – 5GHz)



Note: The emission which exceed the limit is the fundamental.



Note: The emission which exceed the limit is the fundamental.



Note: The emission which exceed the limit is the fundamental.



9.6 Band edge

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
5. The level displayed must comply with the limit specified in this Section.
6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

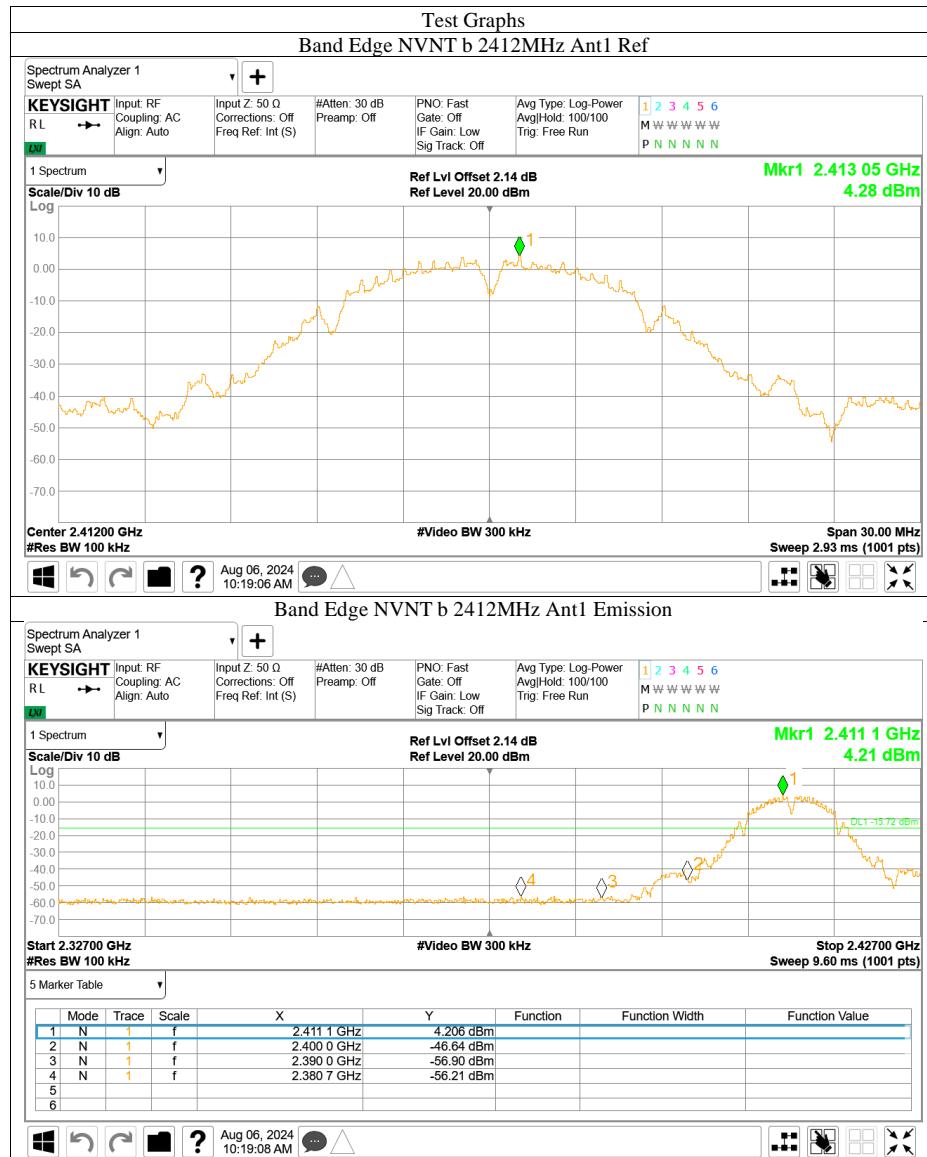
Limit:

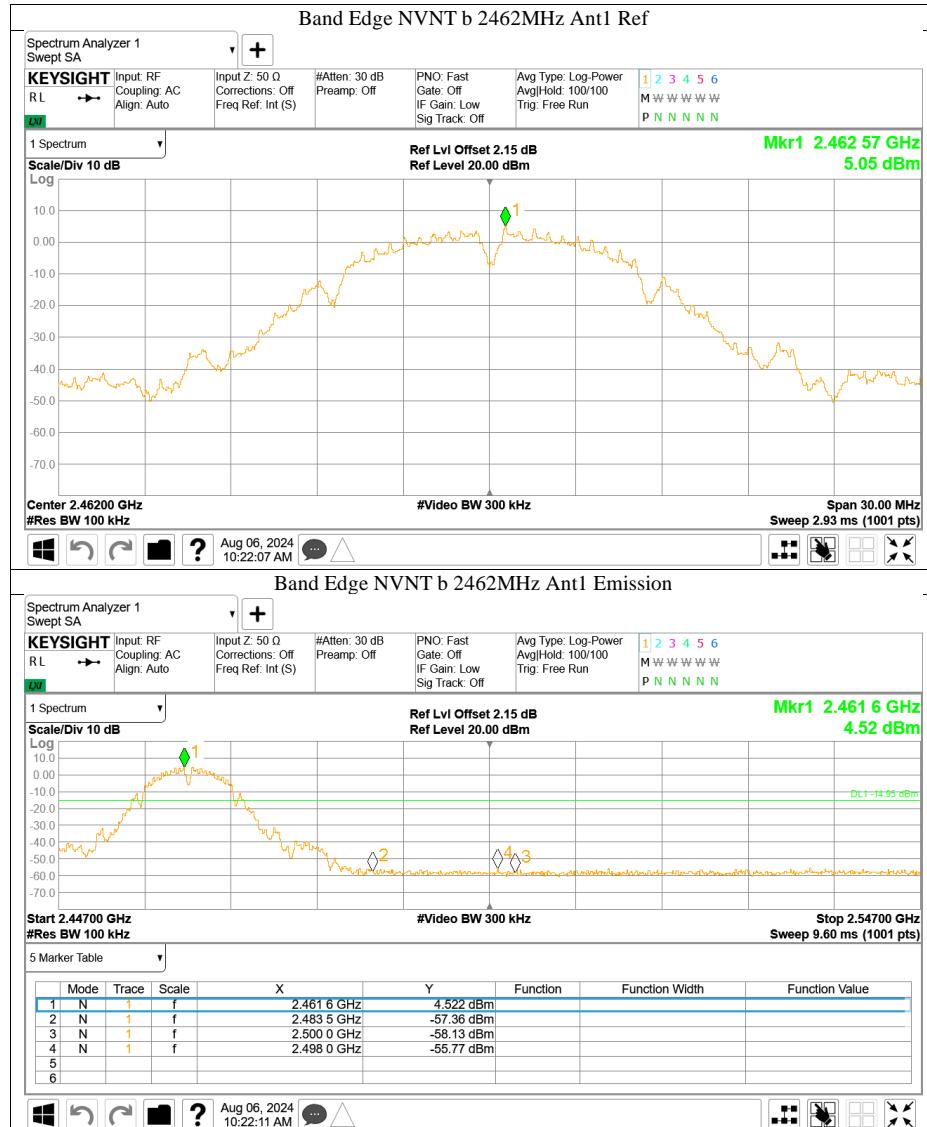
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS-247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

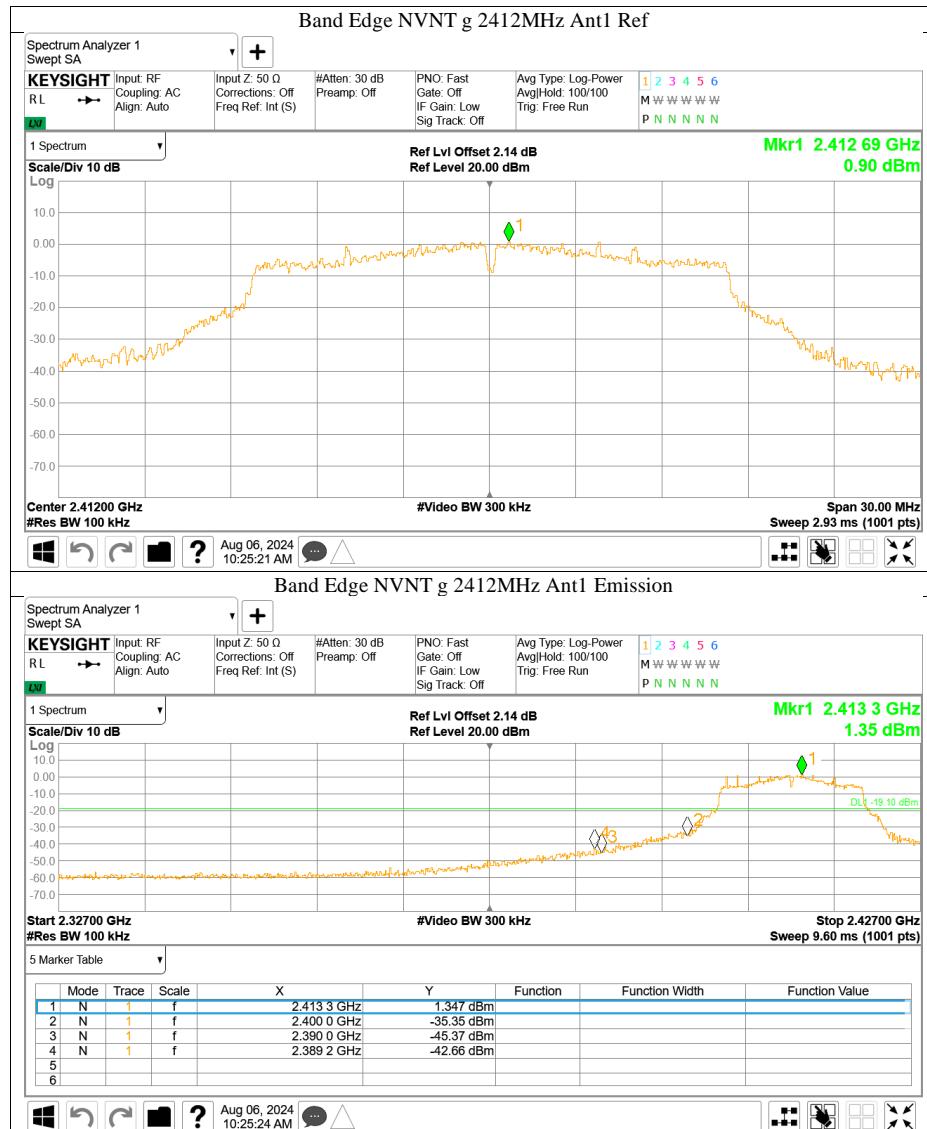
Frequency Range MHz	Limit (dBc)
30-25000	-20

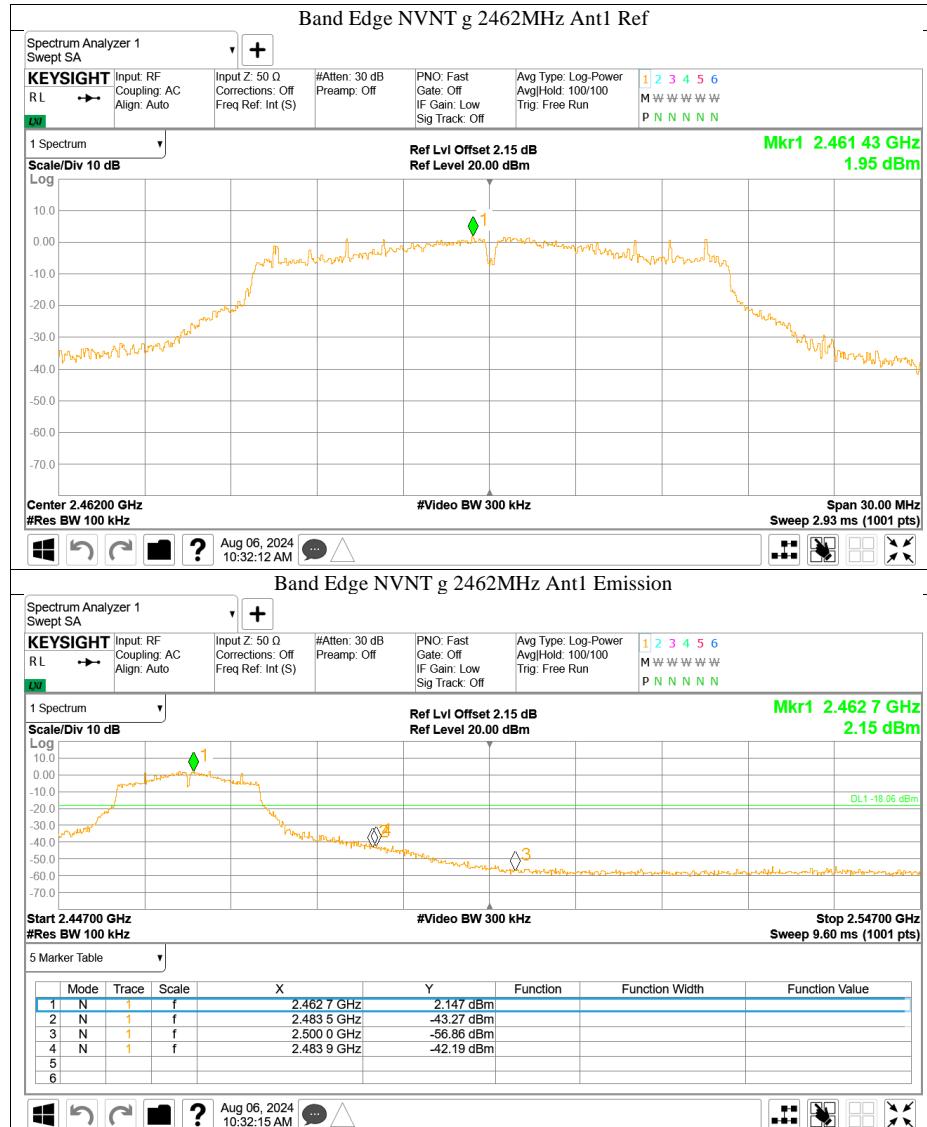


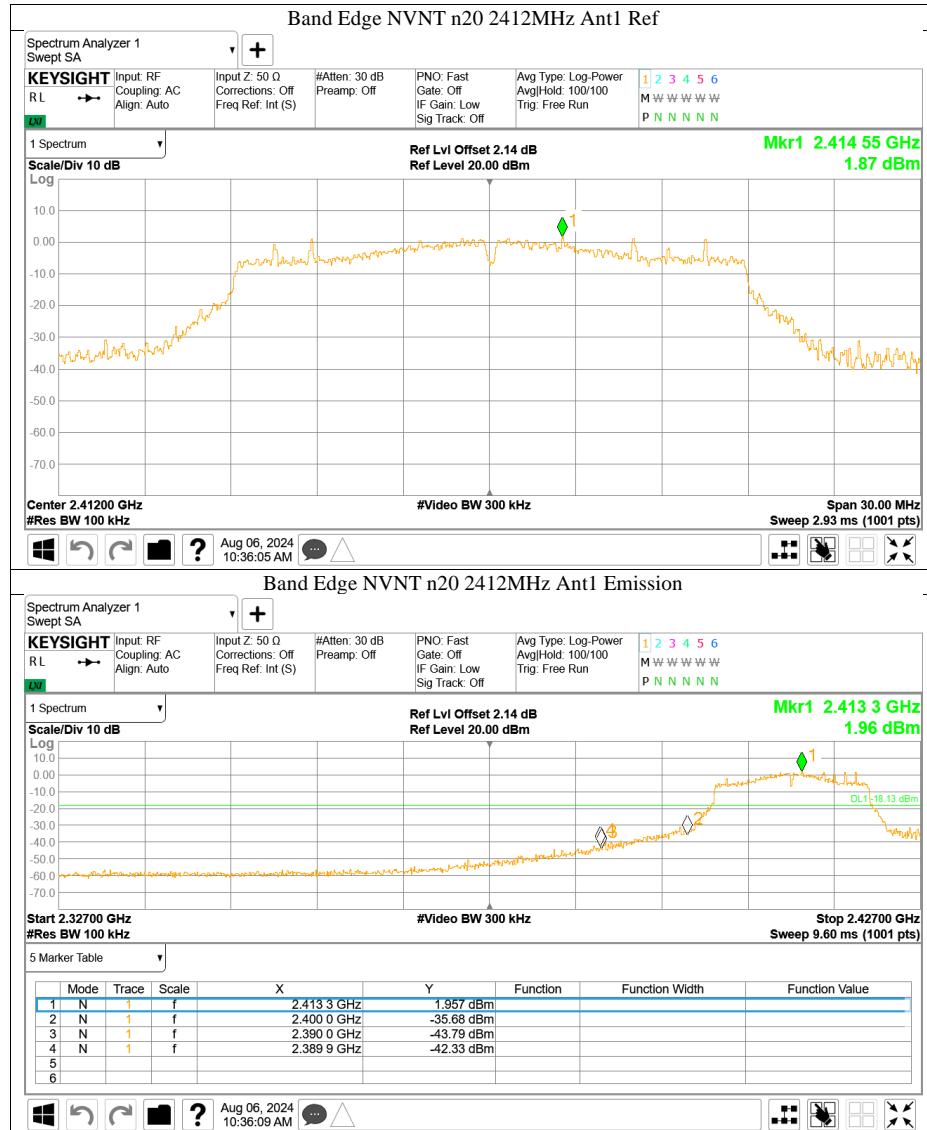
Test result

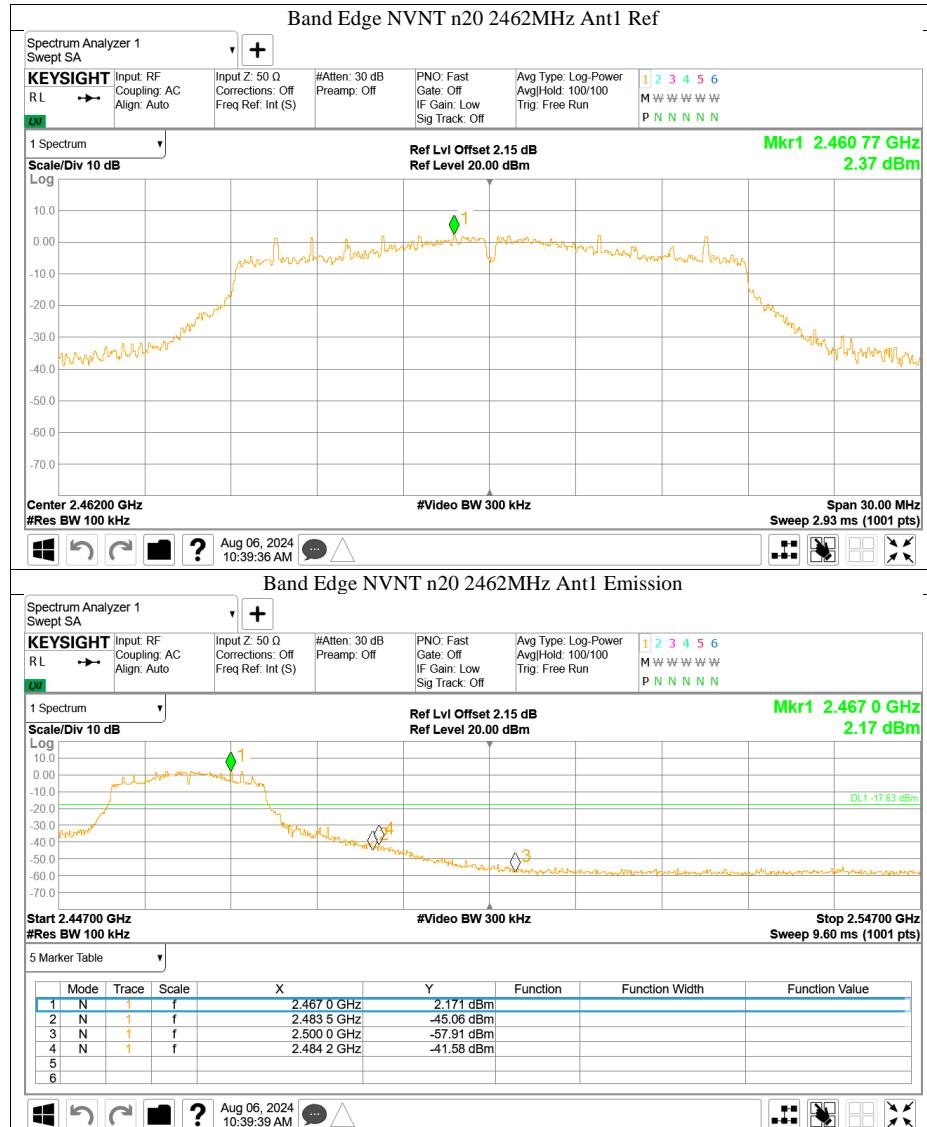














9.7 Spurious radiated emissions for transmitter

Test Method

1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 kHz to 120kHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 1MHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1GHz

 - a) RBW = 1MHz.
 - b) VBW \ [3 x RBW].
 - c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2.
 Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - e) Sweep time = auto.
 - f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
 - g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 - 2) If linear voltage averaging mode was used in the preceding step e), then the correction



factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission (AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a) and RSS-Gen section 8.9, must also comply with the radiated emission limits specified in § 15.209(a) and RSS-Gen section 8.10.

Frequency MHz	Field Strength μV/m	Field Strength dBμV/m	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit $3m(dB\muV/m) = Limit\ 300m(dB\muV/m) + 40\log(300m/3m)$ (Below 30MHz)

Note 2: Limit $3m(dB\muV/m) = Limit\ 30m(dB\muV/m) + 40\log(30m/3m)$ (Below 30MHz)

Spurious Radiated Emissions for Transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Data of measurement within frequency range 9kHz-30MHz is the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.


Above 1GHz Transmitting spurious emission test result as below:

 802.11 b
 2412MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
2382.46	45.85	-4.9	40.95	Horizontal	74	Peak	33.05	pass
4823.93	44.22	-2.20	42.02	Horizontal	74	Peak	31.98	pass
7236.34	45.94	1.30	47.24	Horizontal	74	Peak	26.76	pass
2385.98	46.35	-4.9	41.45	Vertical	74	Peak	32.55	pass
4823.93	43.79	-2.20	41.59	Vertical	74	Peak	32.41	pass
7235.28	45.47	1.30	46.77	Vertical	74	Peak	27.23	pass

2437MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
4874.40	44.92	-2.10	42.82	Horizontal	74	Peak	31.18	pass
7310.71	46.65	1.30	47.95	Horizontal	74	Peak	26.05	pass
4876.00	42.89	-2.10	40.79	Vertical	74	Peak	33.21	pass
7309.65	47.1	1.30	48.40	Vertical	74	Peak	25.6	pass

2462MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
2483.45	50.97	-3.80	47.17	Horizontal	74	Peak	26.83	pass
4923.81	44.64	-1.90	42.74	Horizontal	74	Peak	31.26	pass
7387.75	46.21	1.40	47.61	Horizontal	74	Peak	26.39	pass
2483.70	48.07	-3.80	44.27	Vertical	74	Peak	29.73	pass
4923.28	44.05	-1.90	42.15	Vertical	74	Peak	31.85	pass
7384.56	46.35	1.40	47.75	Vertical	74	Peak	26.25	pass



802.11 g
2412MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
2389.86	67.19	-7.20	59.99	Horizontal	74	Peak	14.01	pass
2389.86	52.8	-7.20	45.60	Horizontal	54	AV	8.4	pass
4823.93	43.54	-2.20	41.34	Horizontal	74	Peak	32.66	pass
7233.15	47.92	1.3	49.22	Horizontal	74	Peak	24.78	pass
2389.99	68.2	-7.20	61.00	Vertical	74	Peak	13	pass
2389.99	54.9	-7.20	47.70	Vertical	54	AV	6.3	pass
4825.53	43.28	-2.20	41.08	Vertical	74	Peak	32.92	pass
7236.34	47.81	1.3	49.11	Vertical	74	Peak	24.89	pass

2437MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
4876.00	43.84	-2.10	41.74	Horizontal	74	Peak	32.26	pass
7307.53	48.51	1.30	49.81	Horizontal	74	Peak	24.19	pass
4875.46	43.29	-2.10	41.19	Vertical	74	Peak	32.81	pass
7311.78	49.81	1.3	51.11	Vertical	74	Peak	22.89	pass

2462MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
2483.58	69.56	-3.80	65.76	Horizontal	74	Peak	8.24	pass
2483.58	55.2	-3.80	51.40	Horizontal	54	AV	2.6	pass
4923.28	44.1	-1.90	42.20	Horizontal	74	Peak	31.8	pass
7386.68	47.86	1.4	49.26	Horizontal	74	Peak	24.74	pass
2483.56	65.19	-3.80	61.39	Vertical	74	Peak	12.61	pass
2483.56	52.7	-3.80	48.90	Vertical	54	AV	5.1	pass
4922.75	43.67	-1.90	41.77	Vertical	74	Peak	32.23	pass
7390.40	48.21	1.4	49.61	Vertical	74	Peak	24.39	pass



802.11 n20

2412MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
2389.80	68.31	-7.20	61.11	Horizontal	74	Peak	12.89	pass
2389.80	52.8	-7.20	45.60	Horizontal	54	AV	8.4	pass
4825.53	42.97	-2.20	40.77	Horizontal	74	Peak	33.23	pass
7233.68	48.92	1.30	50.22	Horizontal	74	Peak	23.78	pass
2389.26	71.49	-7.20	64.29	Vertical	74	Peak	9.71	pass
2389.26	54.2	-7.20	47.00	Vertical	54	AV	7	pass
4822.34	44.36	-2.20	42.16	Vertical	74	Peak	31.84	pass
7231.56	47.56	1.30	48.86	Vertical	74	Peak	25.14	pass

2437MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
4874.40	43.82	-2.10	41.72	Horizontal	74	Peak	32.28	pass
7311.25	47.21	1.30	48.51	Horizontal	74	Peak	25.49	pass
4874.93	43.57	-2.10	41.47	Vertical	74	Peak	32.53	pass
7318.68	50	1.30	51.30	Vertical	74	Peak	22.7	pass

2462MHz

Frequency	Original Receiver	Correct Facto	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV	dB/m	dBuV/m		dB μ V/m		dB μ V/m	
2483.69	70.79	-3.80	66.99	Horizontal	74	Peak	7.01	pass
2483.69	53.7	-3.80	49.90	Horizontal	54	AV	4.1	pass
4923.81	44.29	-1.90	42.39	Horizontal	74	Peak	31.61	pass
7386.15	48.53	1.40	49.93	Horizontal	74	Peak	24.07	pass
2483.52	69.09	-3.80	65.29	Vertical	74	Peak	8.71	pass
2483.52	53.5	-3.80	49.70	Vertical	54	AV	4.3	pass
4923.28	44.72	-1.90	42.82	Vertical	74	Peak	31.18	pass
7378.18	49.21	1.40	50.61	Vertical	74	Peak	23.39	pass

Remark:

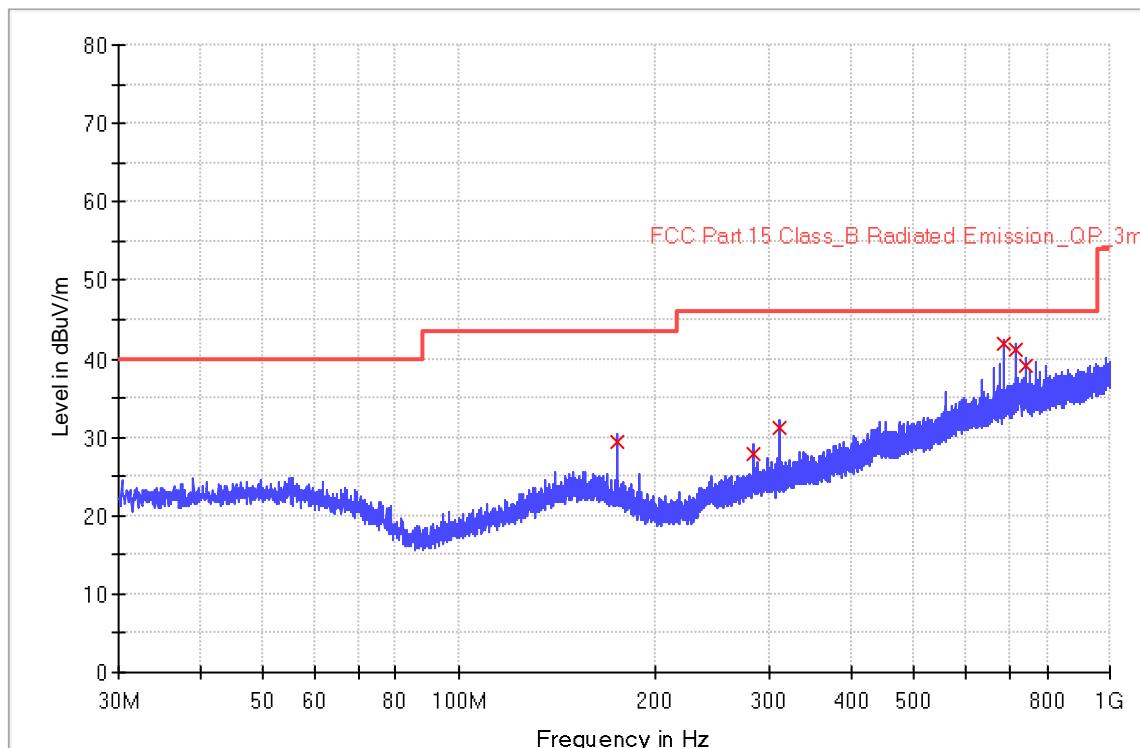
- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss -Amplifier gain
- (3) Margin = limit – Corrected Reading



The worst case of Radiated Emission below 1GHz:

Site: 3 meter chamber	Time: 2024/08/01 - 09:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Horizontal
EUT: Thermal Monocular, Model no: FL335	Power: DC 5V
Note: Transmit by at channel 2462MHz for 802.11HT20 (worst case).	

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
175.480000	29.3	1000.0	120.000	139.0	H	206.0	19.8	14.2	43.5
283.520000	27.8	1000.0	120.000	142.0	H	111.0	21.1	18.2	46.0
310.480000	31.2	1000.0	120.000	129.0	H	98.0	21.8	14.8	46.0
688.480000	42.0	1000.0	120.000	103.0	H	36.0	30.2	4.0	46.0
715.480000	41.2	1000.0	120.000	156.0	H	105.0	30.8	4.8	46.0
742.520000	39.0	1000.0	120.000	185.0	H	41.0	31.8	7.0	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

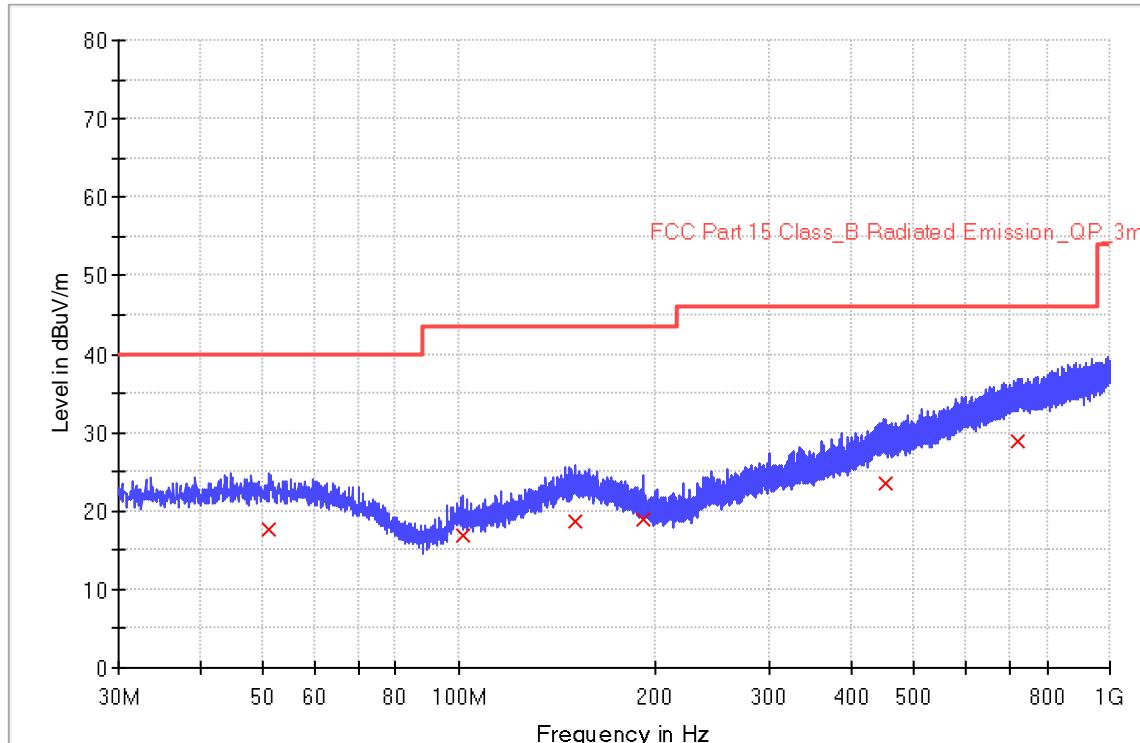
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report



Site: 3 meter chamber	Time: 2024/08/01 - 10:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Vertical
EUT: Thermal Monocular, Model no: FL335	Power: DC 5V
Note: Transmit by at channel 2462MHz for 802.11HT20 (worst case).	

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
50.960000	17.6	1000.0	120.000	105.0	V	315.0	20.6	22.4	40.0
101.120000	17.0	1000.0	120.000	103.0	V	18.0	16.2	26.5	43.5
150.800000	18.6	1000.0	120.000	112.0	V	203.0	20.9	24.9	43.5
192.120000	18.9	1000.0	120.000	100.0	V	65.0	18.3	24.6	43.5
450.720000	23.6	1000.0	120.000	132.0	V	29.0	25.9	22.4	46.0
721.800000	28.9	1000.0	120.000	109.0	V	110.0	31.1	17.1	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.



10 Test Equipment List

List of Test Instruments
Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
C	Signal spectrum analyzer	Agilent	N9020B	MY59050168	2024-2-19	2025-2-18
	Wideband power sensor	Rohde & Schwarz	NRP-Z81	105903	2024-2-19	2025-2-18
	10dB Attenuator	Aeroflex Weinschel	CG-4689	93459	2024-2-19	2025-2-18
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2024-8-1	2025-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2024-8-1	2025-7-31
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2021-9-23	2024-9-22
	Double-ridged waveguide horn antenna	Rohde & Schwarz	HF907	102393	2024-4-14	2027-4-13
	Pre-amplifier	Shenzhen HzEMC	HPA-081843	HYPA23026	2024-4-16	2025-4-15
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2024-6-26	2025-6-25
	Double Ridged Horn Antenna	ETS-Lindgren	3116C	00246076	2023-7-7	2026-7-6
	3m Semi-anechoic chamber	TDK	9X6X6	----	2024-5-8	2027-5-7
CE	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2024-8-1	2025-7-31
	LISN	Rohde & Schwarz	ENV216	101924	2024-8-1	2025-7-31

Measurement Software Information

Test Item	Software	Manufacturer	Version
C	MTS 8310	MWRFtest	3.0.0.0
	Power Viewer	Rohde & Schwarz	V 11.0
RE	EMC 32	Rohde & Schwarz	V10.50.40
CE	EMC 32	Rohde & Schwarz	V9.15.03

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Band edge



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	9kHz to 30MHz, 3.52dB 30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB
RF Conducted Measurement	Power related: 1.16dB Frequency related: 6.00×10^{-8}

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----