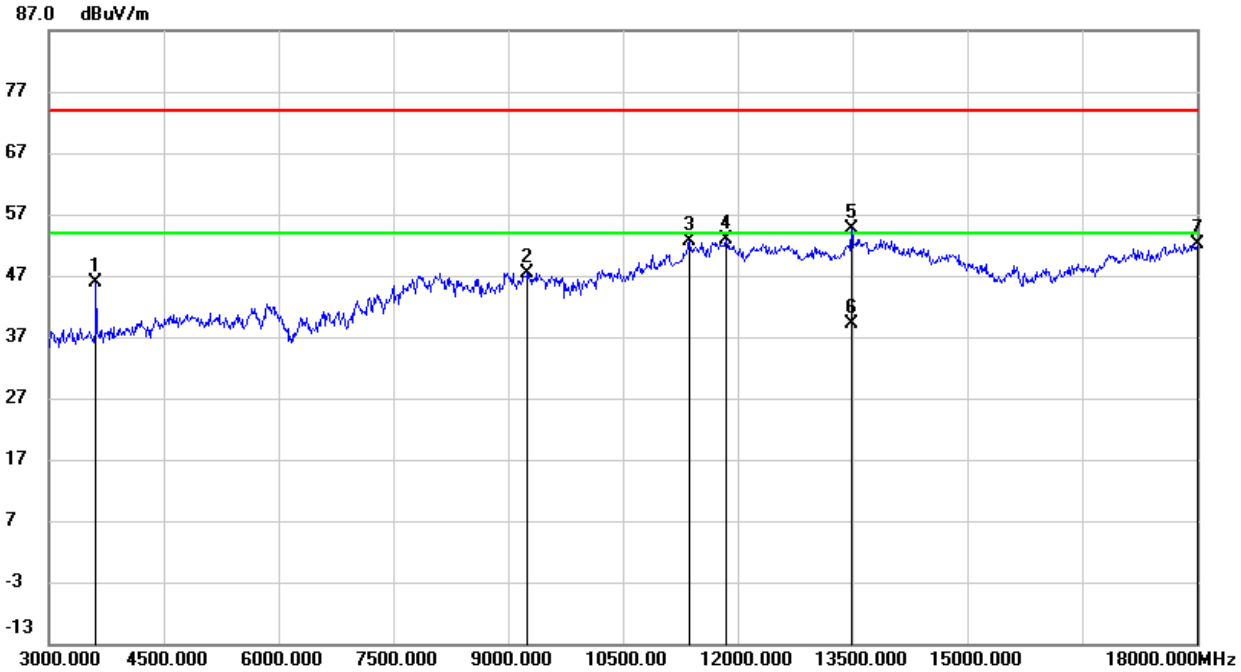
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	50.05	-4.23	45.82	74.00	-28.18	peak
2	9255.000	37.62	9.88	47.50	74.00	-26.50	peak
3	11370.000	36.55	16.05	52.60	74.00	-21.40	peak
4	11857.500	35.79	17.13	52.92	74.00	-21.08	peak
5	13492.500	35.52	19.20	54.72	74.00	-19.28	peak
6	13492.500	20.03	19.20	39.23	54.00	-14.77	AVG
7	18000.000	27.27	24.97	52.24	74.00	-21.76	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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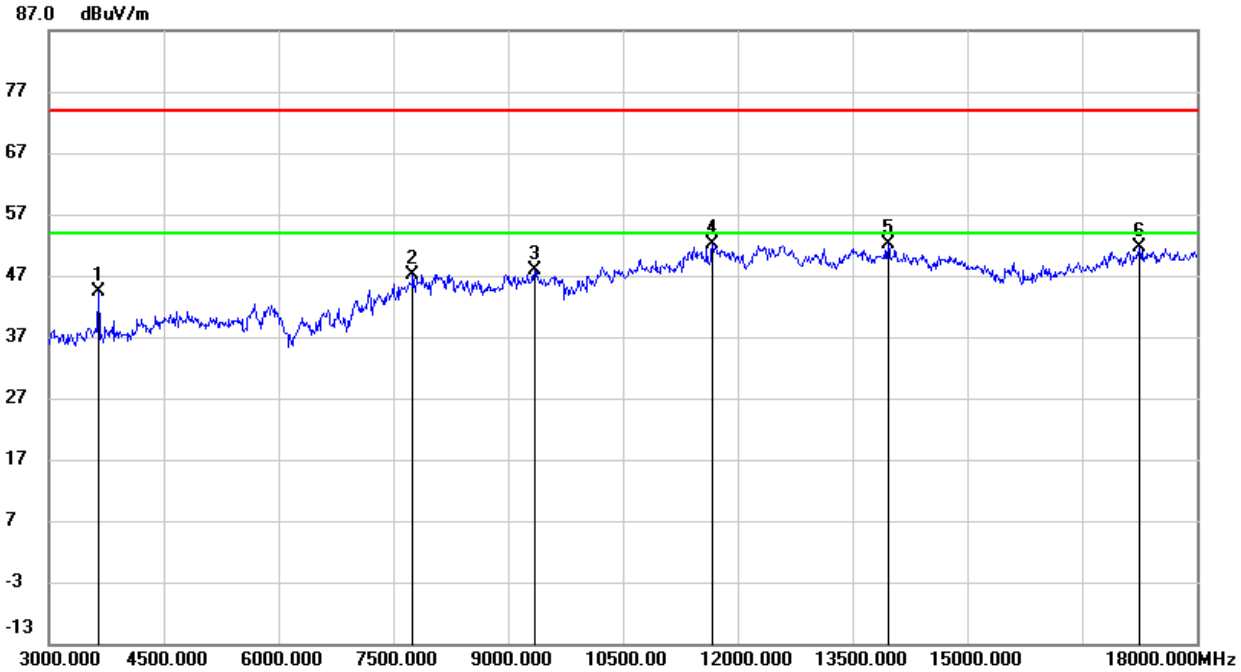
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3652.500	48.48	-4.15	44.33	74.00	-29.67	peak
2	7755.000	38.82	8.29	47.11	74.00	-26.89	peak
3	9352.500	37.32	10.48	47.80	74.00	-26.20	peak
4	11677.500	35.19	16.97	52.16	74.00	-21.84	peak
5	13972.500	32.75	19.34	52.09	74.00	-21.91	peak
6	17250.000	30.41	21.10	51.51	74.00	-22.49	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For the transmitting duration, please refer to clause 7.1.
5. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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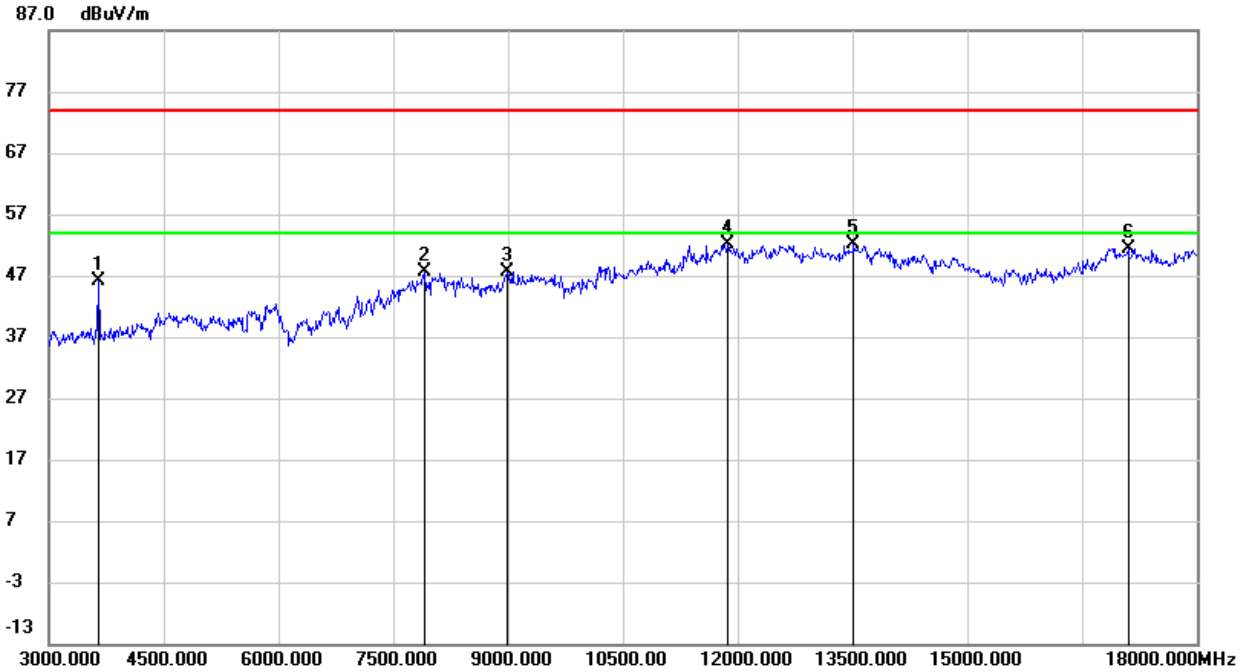
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3652.500	50.20	-4.15	46.05	74.00	-27.95	peak
2	7905.000	39.47	8.22	47.69	74.00	-26.31	peak
3	8985.000	37.22	10.48	47.70	74.00	-26.30	peak
4	11865.000	35.11	17.14	52.25	74.00	-21.75	peak
5	13515.000	32.94	19.18	52.12	74.00	-21.88	peak
6	17107.500	31.04	20.42	51.46	74.00	-22.54	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For the transmitting duration, please refer to clause 7.1.
5. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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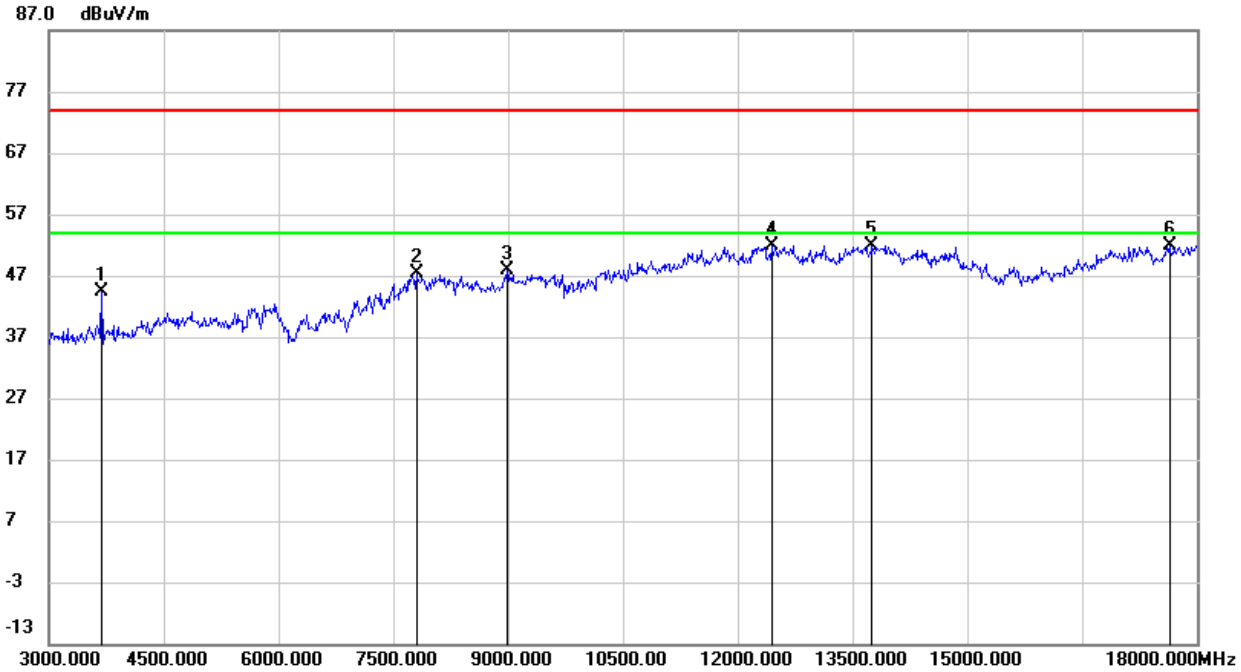
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	48.55	-4.05	44.50	74.00	-29.50	peak
2	7807.500	38.67	8.67	47.34	74.00	-26.66	peak
3	8985.000	37.35	10.48	47.83	74.00	-26.17	peak
4	12457.500	34.68	17.14	51.82	74.00	-22.18	peak
5	13762.500	32.45	19.45	51.90	74.00	-22.10	peak
6	17640.000	29.23	22.72	51.95	74.00	-22.05	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For the transmitting duration, please refer to clause 7.1.
5. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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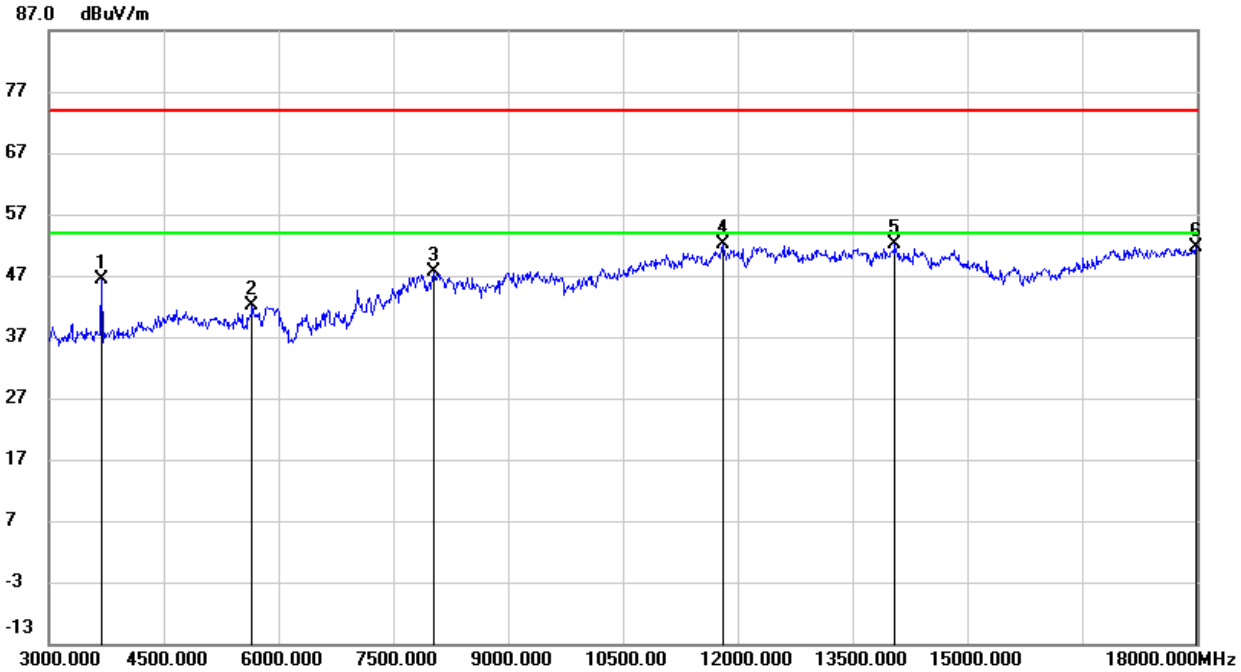
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	50.54	-4.05	46.49	74.00	-27.51	peak
2	5655.000	40.04	2.01	42.05	74.00	-31.95	peak
3	8032.500	39.14	8.53	47.67	74.00	-26.33	peak
4	11812.500	35.12	17.01	52.13	74.00	-21.87	peak
5	14055.000	33.05	19.10	52.15	74.00	-21.85	peak
6	17992.500	26.73	24.92	51.65	74.00	-22.35	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For the transmitting duration, please refer to clause 7.1.
5. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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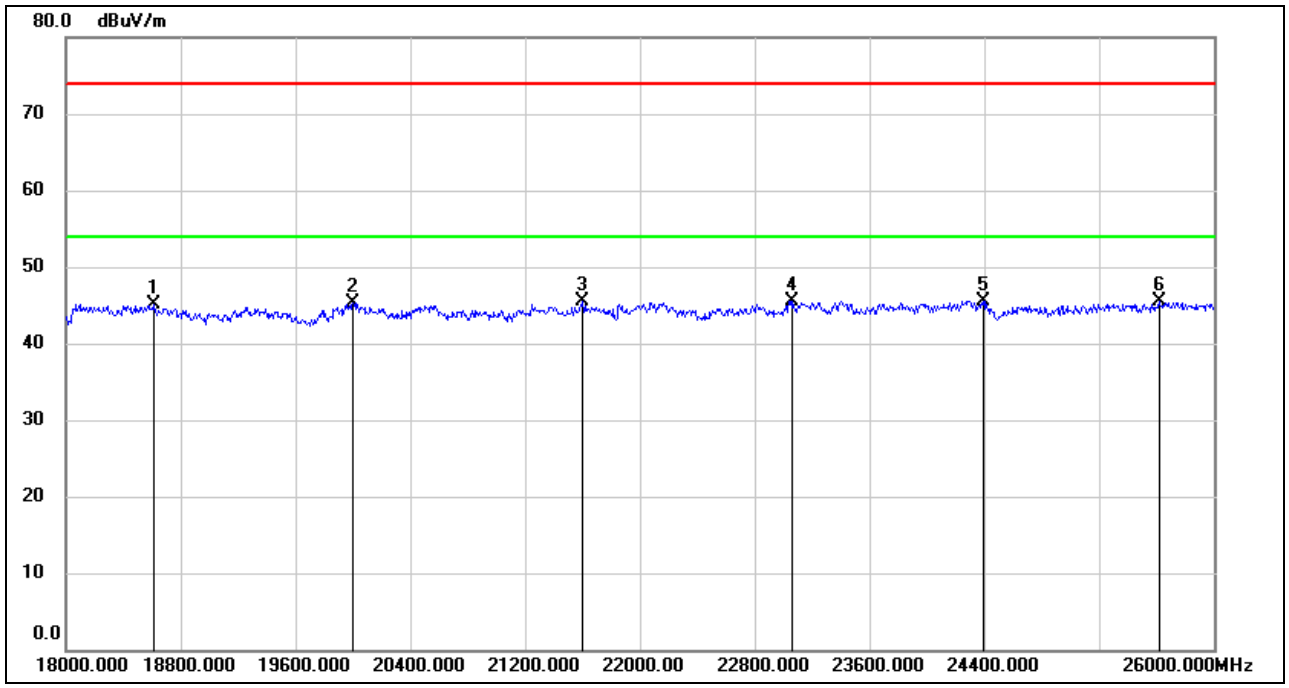
8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. 802.11b SISO MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18608.000	50.37	-5.33	45.04	74.00	-28.96	peak
2	20000.000	50.81	-5.45	45.36	74.00	-28.64	peak
3	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
4	23064.000	48.99	-3.42	45.57	74.00	-28.43	peak
5	24392.000	48.04	-2.54	45.50	74.00	-28.50	peak
6	25616.000	46.68	-1.24	45.44	74.00	-28.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.

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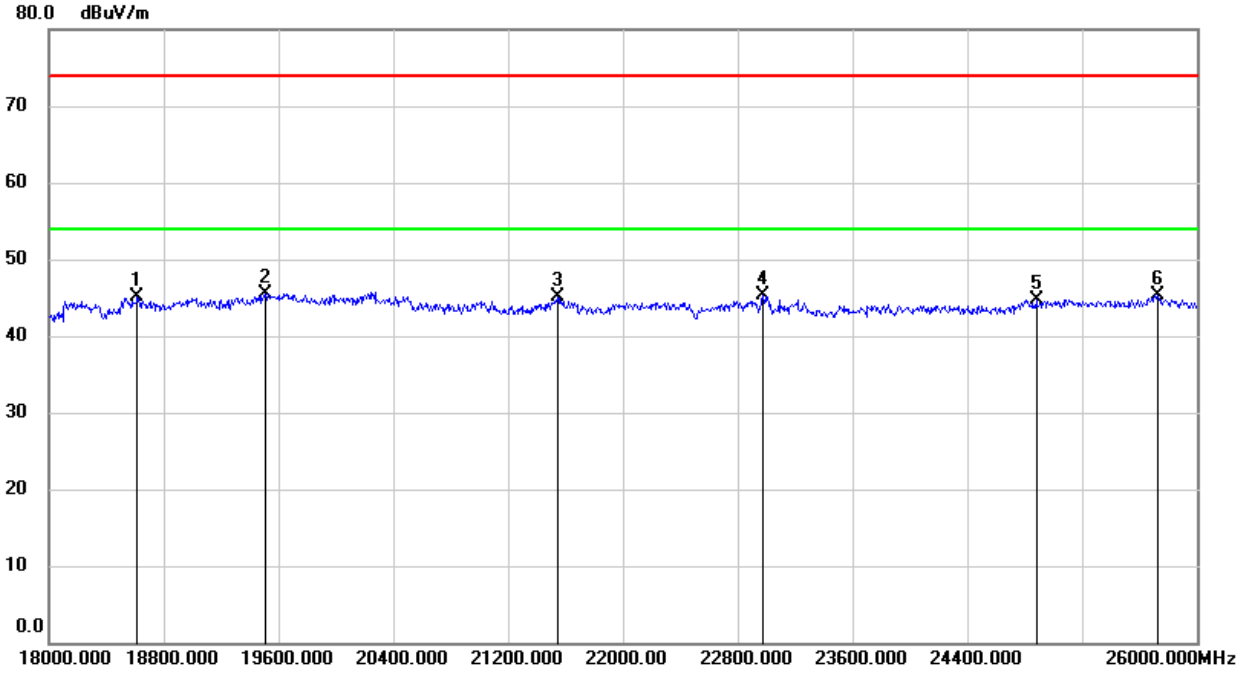
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18616.000	50.39	-5.34	45.05	74.00	-28.95	peak
2	19504.000	51.13	-5.54	45.59	74.00	-28.41	peak
3	21544.000	49.76	-4.63	45.13	74.00	-28.87	peak
4	22976.000	48.76	-3.46	45.30	74.00	-28.70	peak
5	24880.000	46.90	-2.20	44.70	74.00	-29.30	peak
6	25728.000	46.11	-0.72	45.39	74.00	-28.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.

Note: All the modes had been tested, but only the worst data was recorded in the report.

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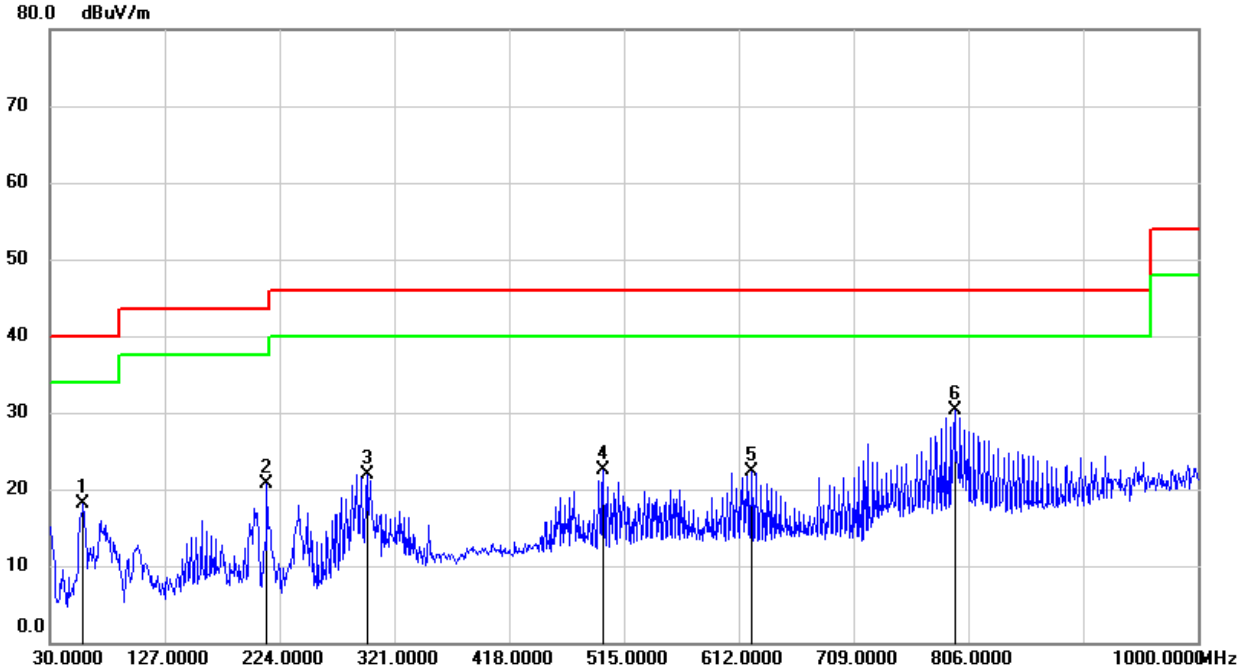
8.5. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.5.1. 802.11b SISO MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	58.1300	38.72	-20.55	18.17	40.00	-21.83	QP
2	213.3300	38.19	-17.58	20.61	43.50	-22.89	QP
3	297.7200	37.44	-15.44	22.00	46.00	-24.00	QP
4	497.5400	34.05	-11.52	22.53	46.00	-23.47	QP
5	622.6700	31.70	-9.36	22.34	46.00	-23.66	QP
6	794.3600	37.66	-7.36	30.30	46.00	-15.70	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

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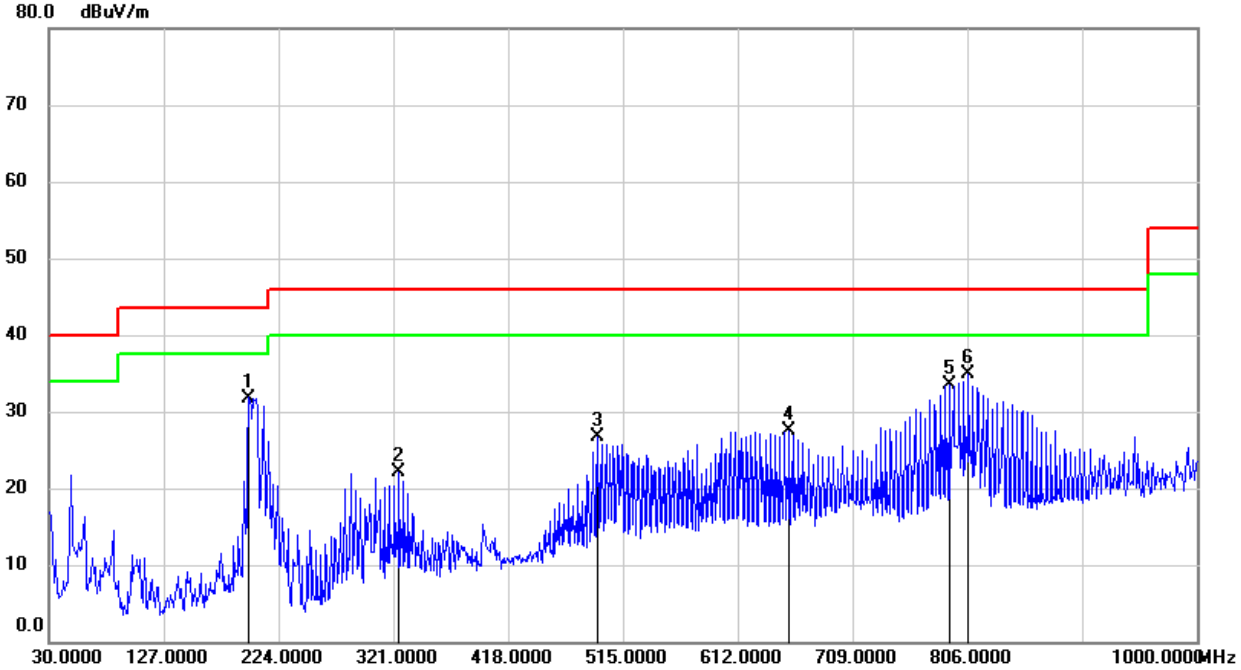
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	198.7800	48.19	-16.39	31.80	43.50	-11.70	QP
2	325.8500	36.87	-14.73	22.14	46.00	-23.86	QP
3	493.6600	38.26	-11.61	26.65	46.00	-19.35	QP
4	655.6500	36.27	-8.85	27.42	46.00	-18.58	QP
5	790.4800	40.85	-7.39	33.46	46.00	-12.54	QP
6	806.9699	42.07	-7.19	34.88	46.00	-11.12	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All the modes had been tested, but only the worst data was recorded in the report.

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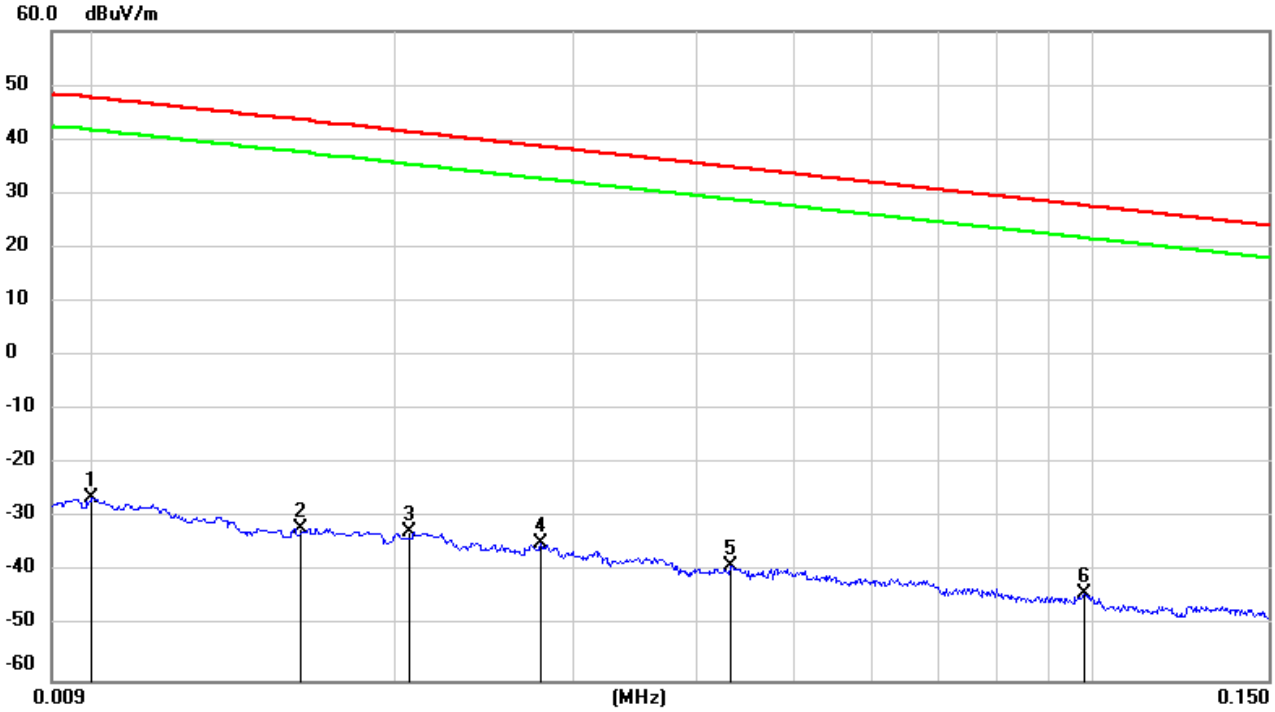
8.6. SPURIOUS EMISSIONS BELOW 30 MHz

8.6.1. 802.11b SISO MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz~ 150 kHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	75.22	-101.40	-26.18	47.6	-77.68	-3.90	-73.78	peak
2	0.0160	69.47	-101.37	-31.9	43.52	-83.40	-7.98	-75.42	peak
3	0.0206	68.92	-101.35	-32.43	41.32	-83.93	-10.18	-73.75	peak
4	0.0279	66.67	-101.38	-34.71	38.69	-86.21	-12.81	-73.40	peak
5	0.0432	62.57	-101.45	-38.88	34.89	-90.38	-16.61	-73.77	peak
6	0.0981	57.77	-101.78	-44.01	27.77	-95.51	-23.73	-71.78	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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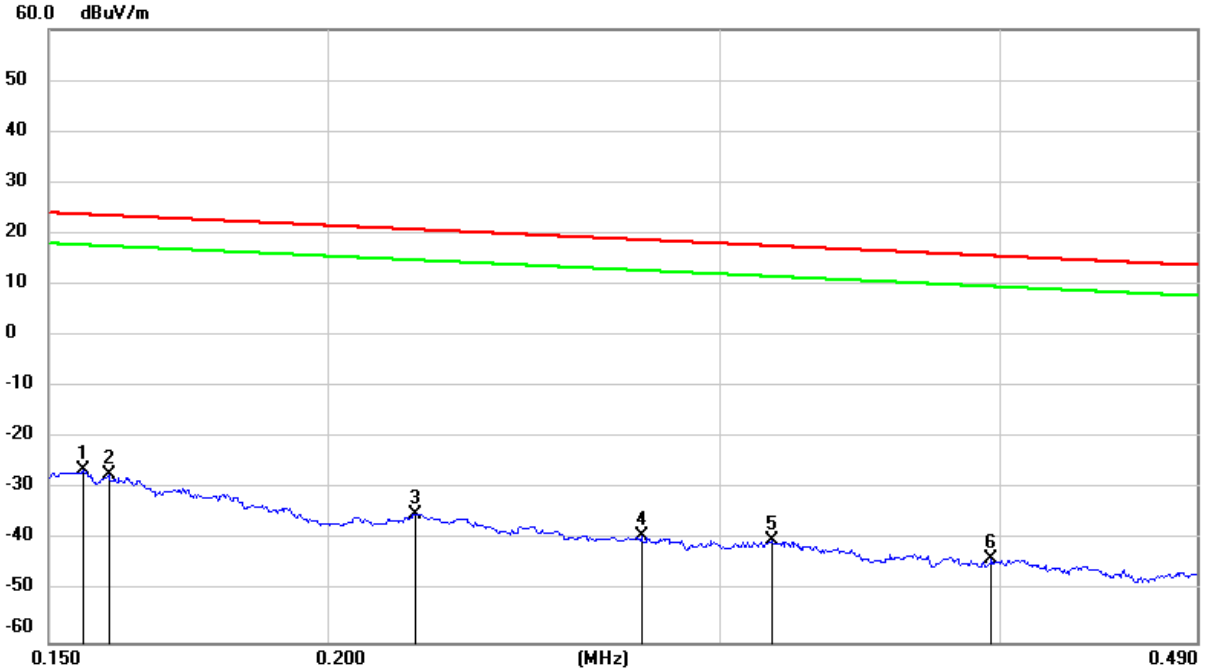
150 kHz ~ 490 kHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	75.27	-101.65	-26.38	23.77	-77.88	-27.73	-50.15	peak
2	0.1595	74.36	-101.65	-27.29	23.55	-78.79	-27.95	-50.84	peak
3	0.2190	66.77	-101.75	-34.98	20.79	-86.48	-30.71	-55.77	peak
4	0.2765	62.72	-101.83	-39.11	18.77	-90.61	-32.73	-57.88	peak
5	0.3163	61.70	-101.87	-40.17	17.6	-91.67	-33.90	-57.77	peak
6	0.3966	58.18	-101.96	-43.78	15.63	-95.28	-35.87	-59.41	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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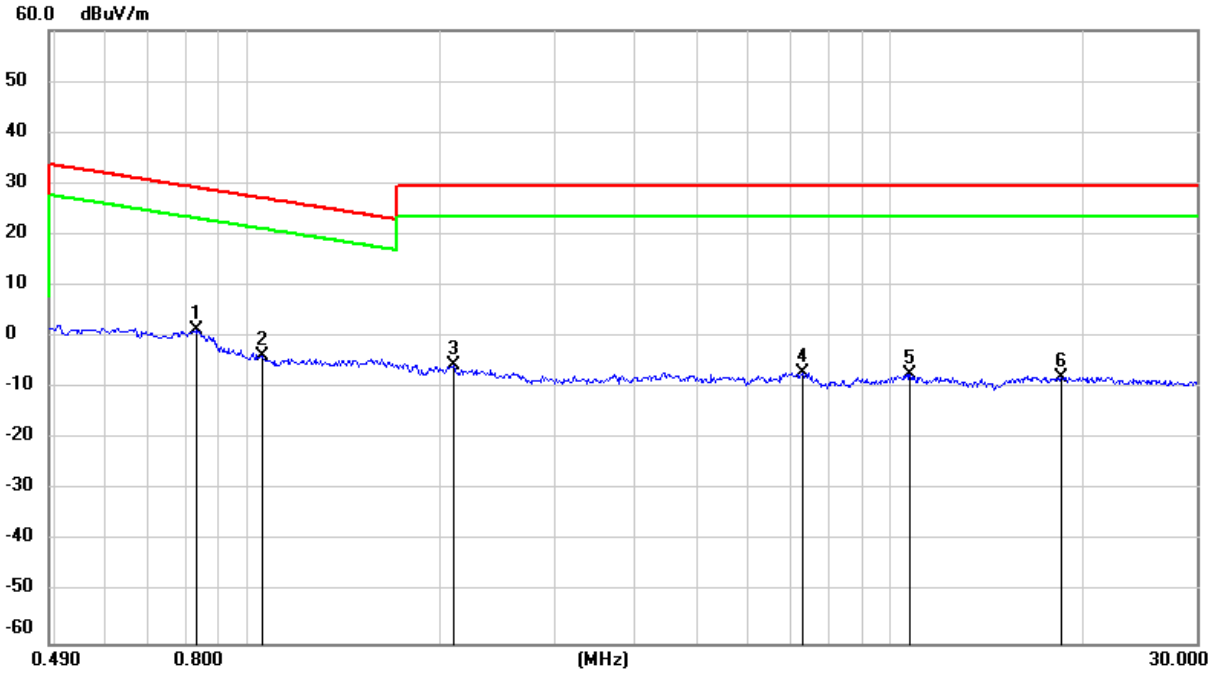
490 kHz ~ 30 MHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.8296	63.44	-62.17	1.27	29.23	-50.23	-22.27	-27.96	peak
2	1.0524	58.44	-62.24	-3.8	27.16	-55.30	-24.34	-30.96	peak
3	2.0939	56.39	-61.79	-5.4	29.54	-56.90	-21.96	-34.94	peak
4	7.3361	54.08	-61.17	-7.09	29.54	-58.59	-21.96	-36.63	peak
5	10.7299	53.48	-60.83	-7.35	29.54	-58.85	-21.96	-36.89	peak
6	18.4908	53.06	-60.89	-7.83	29.54	-59.33	-21.96	-37.37	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All the modes had been tested, but only the worst data was recorded in the report.

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9. AC POWER LINE CONDUCTED EMISSIONS

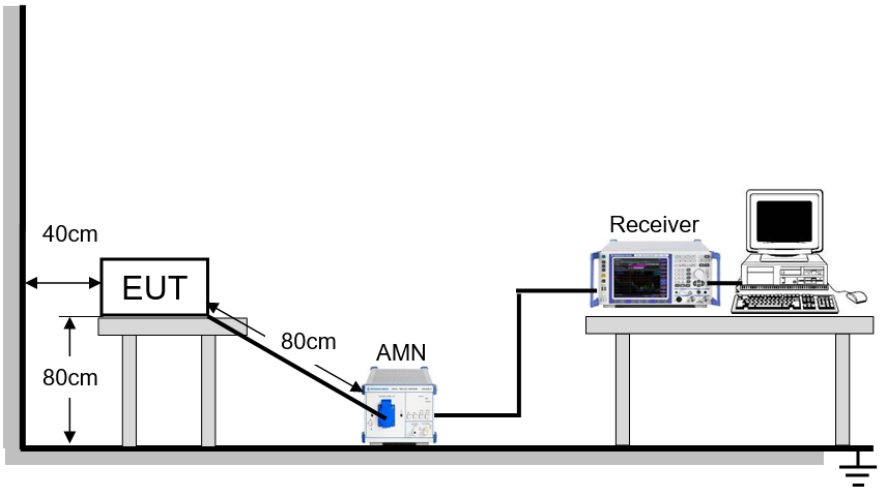
LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

Temperature	21.7 °C	Relative Humidity	54.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V, 60 Hz

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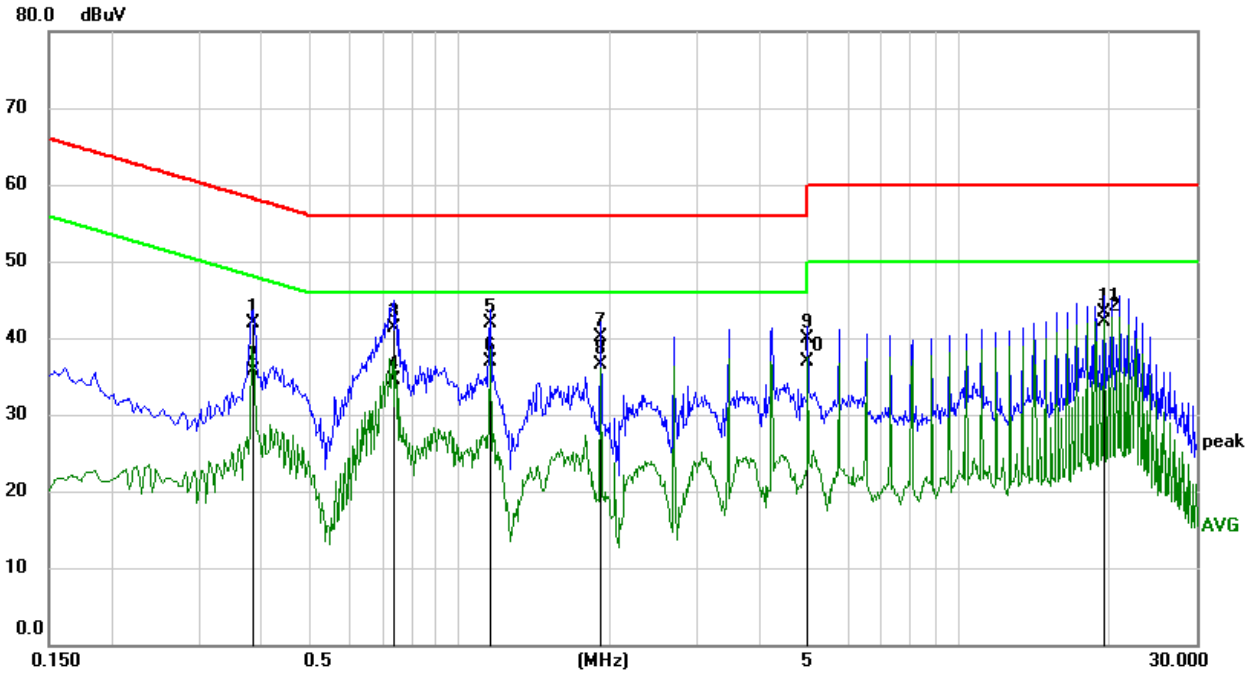
RESULTS

9.1. 802.11b SISO MODE

LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3834	32.32	9.59	41.91	58.21	-16.30	QP
2	0.3834	26.03	9.59	35.62	48.21	-12.59	AVG
3	0.7389	31.69	9.60	41.29	56.00	-14.71	QP
4	0.7389	24.81	9.60	34.41	46.00	-11.59	AVG
5	1.1521	32.34	9.61	41.95	56.00	-14.05	QP
6	1.1521	27.22	9.61	36.83	46.00	-9.17	AVG
7	1.9202	30.53	9.63	40.16	56.00	-15.84	QP
8	1.9202	26.85	9.63	36.48	46.00	-9.52	AVG
9	4.9925	30.27	9.62	39.89	56.00	-16.11	QP
10	4.9925	27.37	9.62	36.99	46.00	-9.01	AVG
11	19.5861	33.55	9.82	43.37	60.00	-16.63	QP
12	19.5861	32.36	9.82	42.18	50.00	-7.82	AVG

Note: 1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

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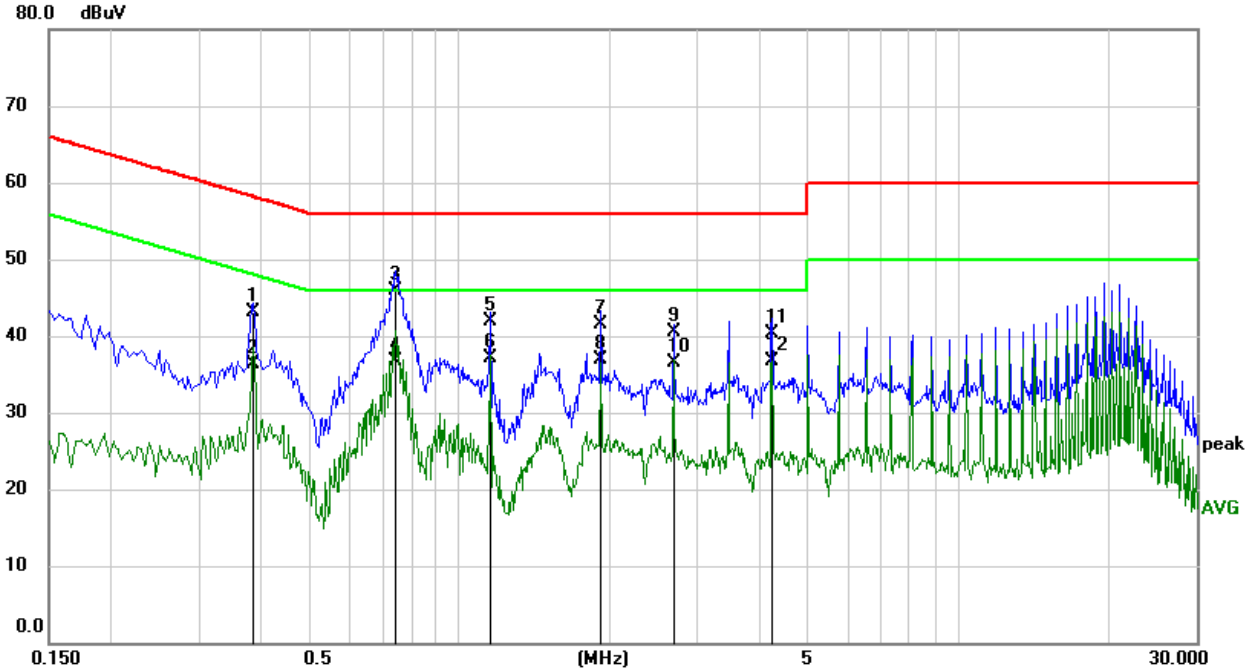
LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3840	33.56	9.59	43.15	58.19	-15.04	QP
2	0.3840	26.69	9.59	36.28	48.19	-11.91	AVG
3	0.7434	36.26	9.60	45.86	56.00	-10.14	QP
4	0.7434	27.07	9.60	36.67	46.00	-9.33	AVG
5	1.1521	32.37	9.61	41.98	56.00	-14.02	QP
6	1.1521	27.43	9.61	37.04	46.00	-8.96	AVG
7	1.9202	31.94	9.63	41.57	56.00	-14.43	QP
8	1.9202	27.23	9.63	36.86	46.00	-9.14	AVG
9	2.6883	30.83	9.62	40.45	56.00	-15.55	QP
10	2.6883	26.91	9.62	36.53	46.00	-9.47	AVG
11	4.2244	30.70	9.60	40.30	56.00	-15.70	QP
12	4.2244	27.17	9.60	36.77	46.00	-9.23	AVG

Note: 1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes had been tested, but only the worst data was recorded in the report.

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10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies

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Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.440	2416.960	0.5	PASS
		2437	9.040	2432.920	2441.960	0.5	PASS
		2462	7.600	2458.400	2466.000	0.5	PASS
11G	Ant1	2412	16.040	2403.880	2419.920	0.5	PASS
		2437	16.040	2428.840	2444.880	0.5	PASS
		2462	15.640	2454.240	2469.880	0.5	PASS
11N20SISO	Ant1	2412	16.800	2403.600	2420.400	0.5	PASS
		2437	16.320	2428.480	2444.800	0.5	PASS
		2462	16.560	2453.600	2470.160	0.5	PASS

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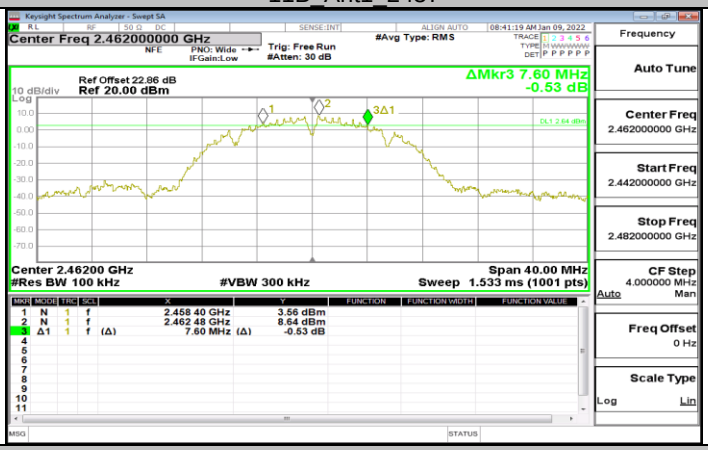
10.1.1. Test Graphs

11B_Ant1_2412

11B_Ant1_2437



11B_Ant1_2462

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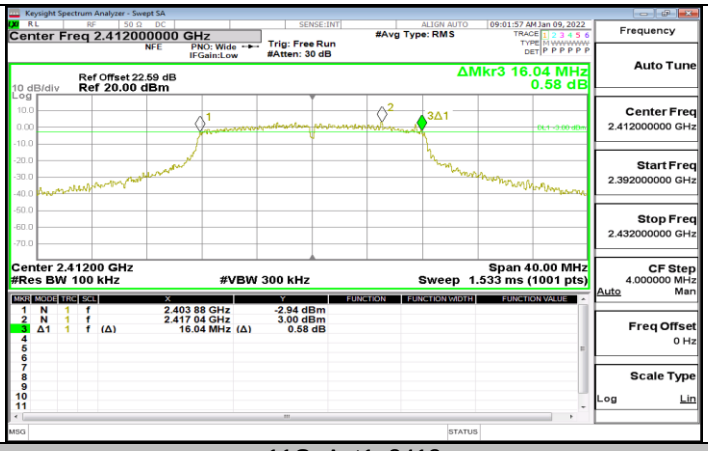
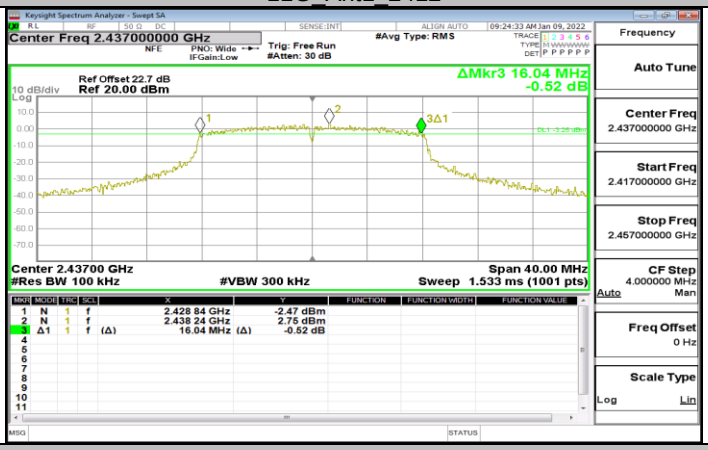
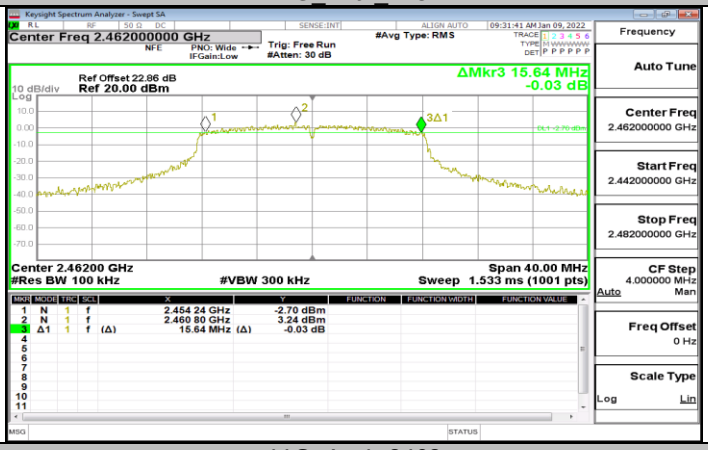


11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462

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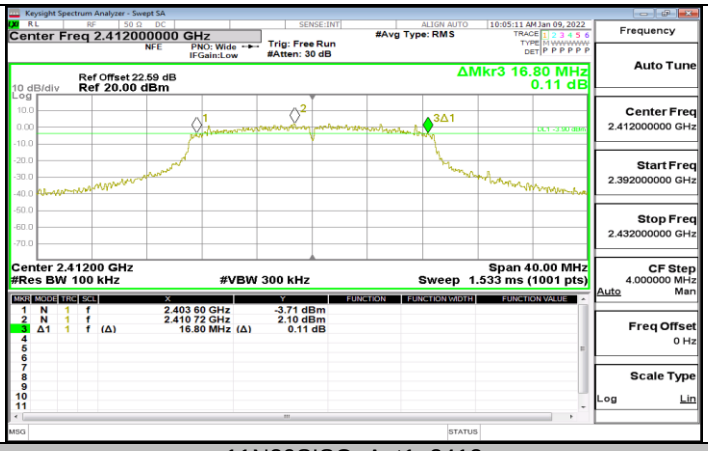
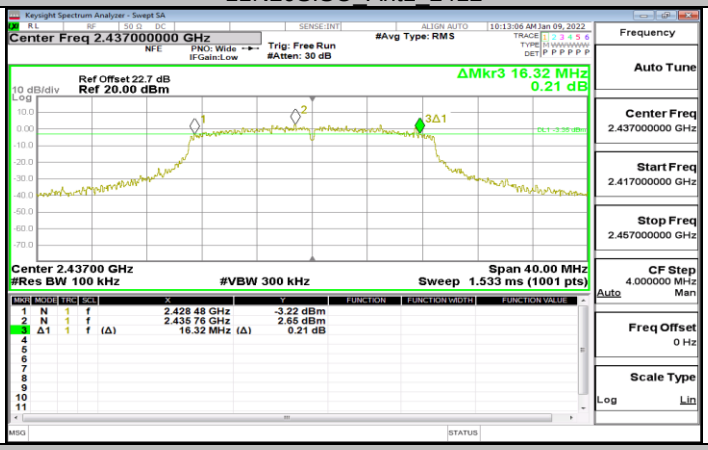
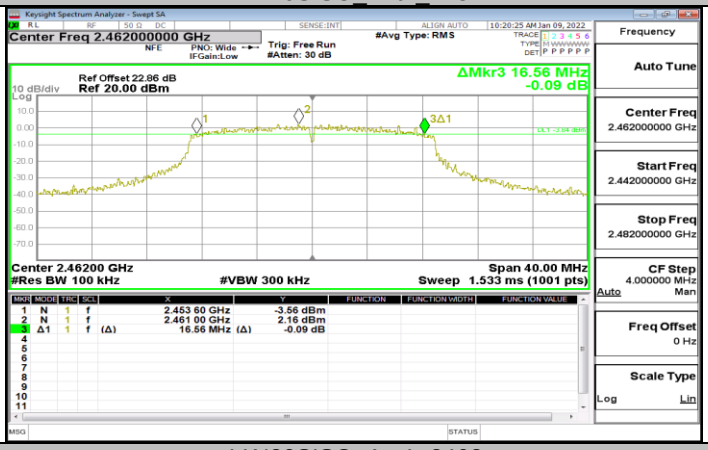


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

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10.2. Appendix B: Occupied Channel Bandwidth

10.2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	14.019	2404.954	2418.973	PASS
		2437	14.016	2429.926	2443.942	PASS
		2462	14.000	2454.935	2468.935	PASS
11G	Ant1	2412	16.689	2403.675	2420.364	PASS
		2437	16.687	2428.625	2445.312	PASS
		2462	16.651	2453.652	2470.303	PASS
11N20SISO	Ant1	2412	17.712	2403.187	2420.899	PASS
		2437	17.697	2428.144	2445.841	PASS
		2462	17.680	2453.180	2470.860	PASS

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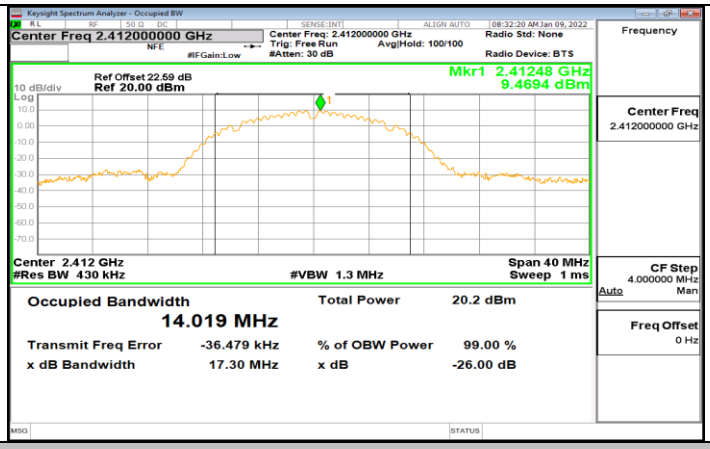
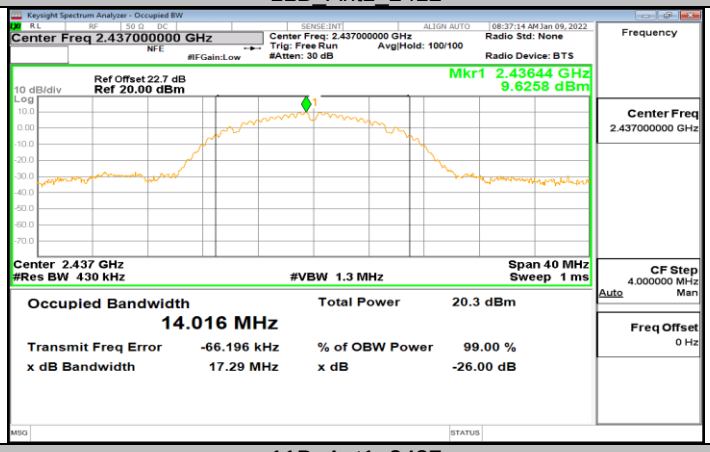
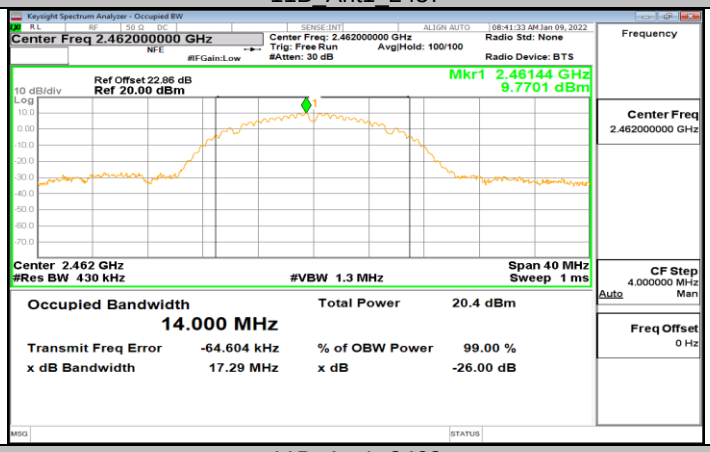
10.2.2. Test Graphs



11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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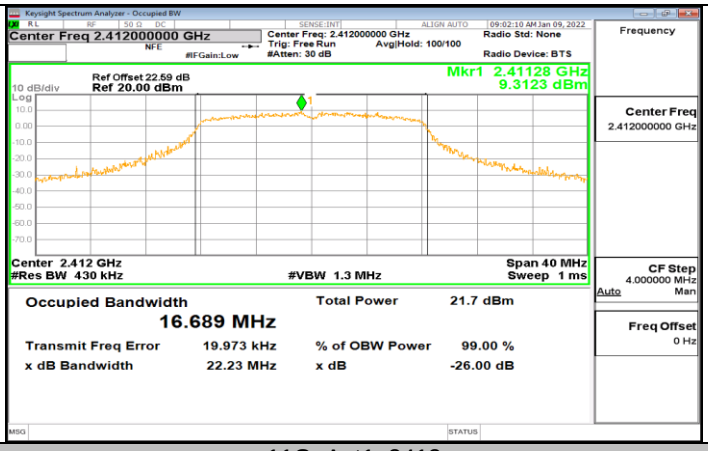
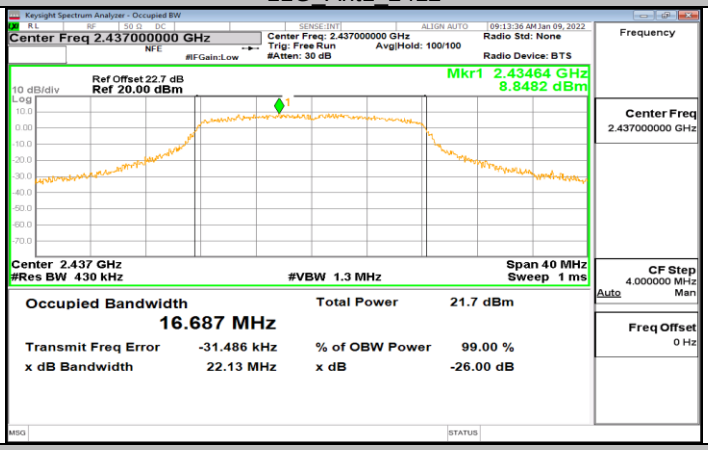
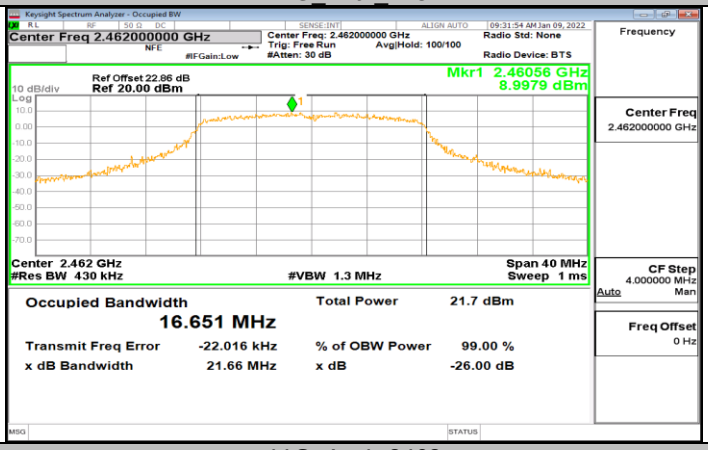


11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462

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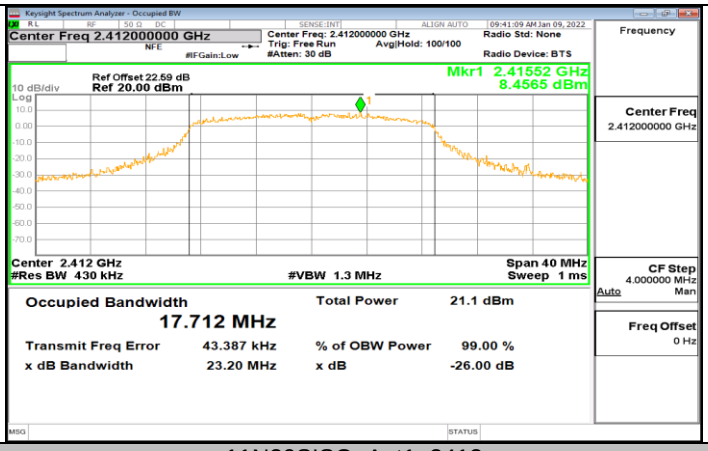
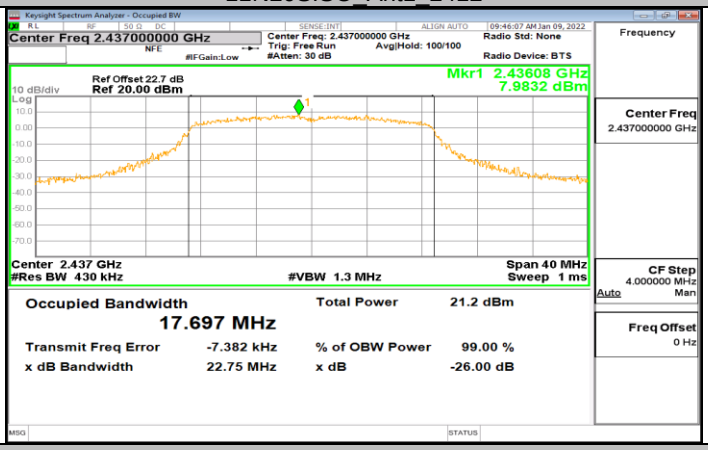
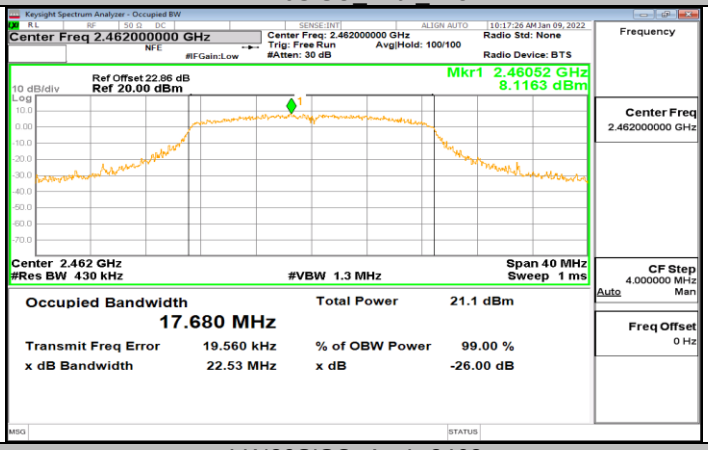


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

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10.3. Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.33	≤30.00	PASS
		2437	17.35	≤30.00	PASS
		2462	17.36	≤30.00	PASS
11G	Ant1	2412	11.37	≤30.00	PASS
		2437	11.10	≤30.00	PASS
		2462	11.09	≤30.00	PASS
11N20SISO	Ant1	2412	12.74	≤30.00	PASS
		2437	12.77	≤30.00	PASS
		2462	12.76	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

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10.4. Appendix D: Maximum power spectral density

Test Result

10.4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.23	≤8.00	PASS
		2437	-14.26	≤8.00	PASS
		2462	-13.02	≤8.00	PASS
11G	Ant1	2412	-21.64	≤8.00	PASS
		2437	-22.07	≤8.00	PASS
		2462	-22.18	≤8.00	PASS
11N20SISO	Ant1	2412	-19.79	≤8.00	PASS
		2437	-20.05	≤8.00	PASS
		2462	-19.58	≤8.00	PASS

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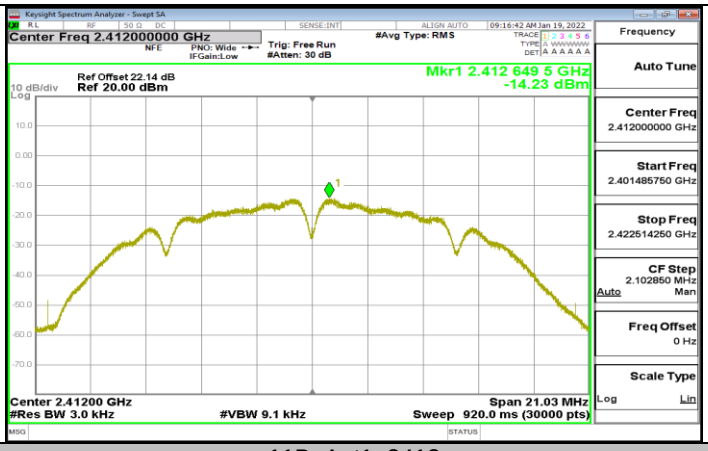
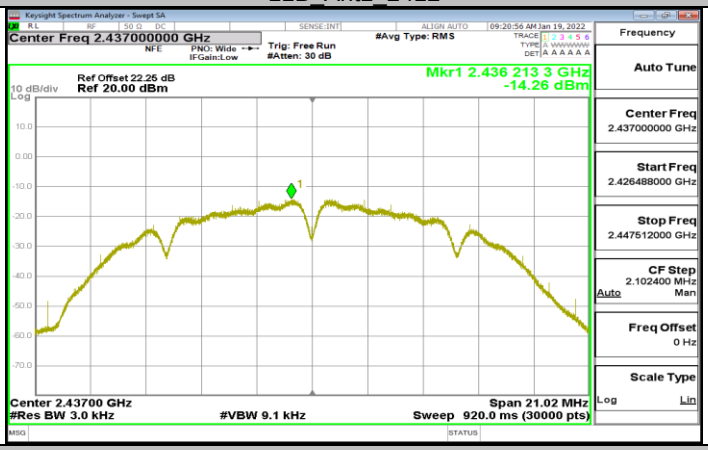
10.4.2. Test Graphs



11B_Ant1_2412



11B_Ant1_2437

11B_Ant1_2462

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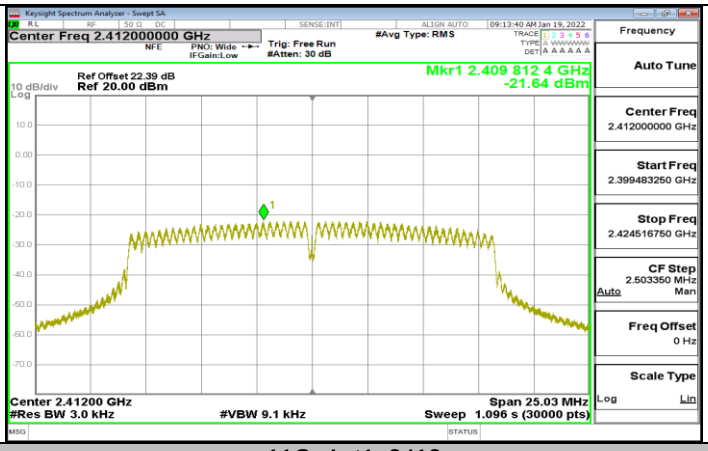
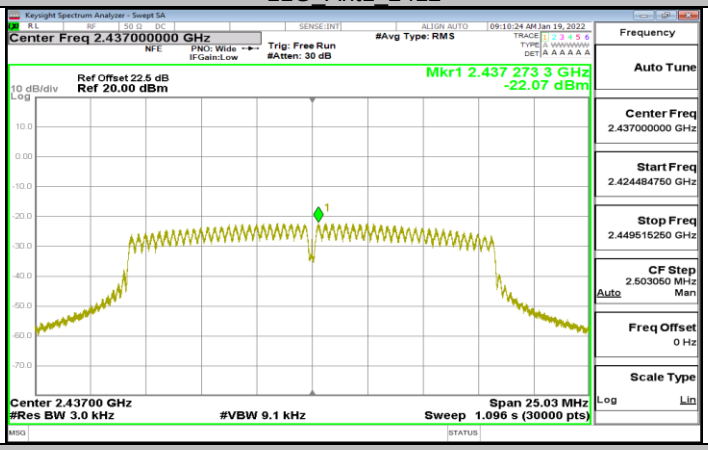
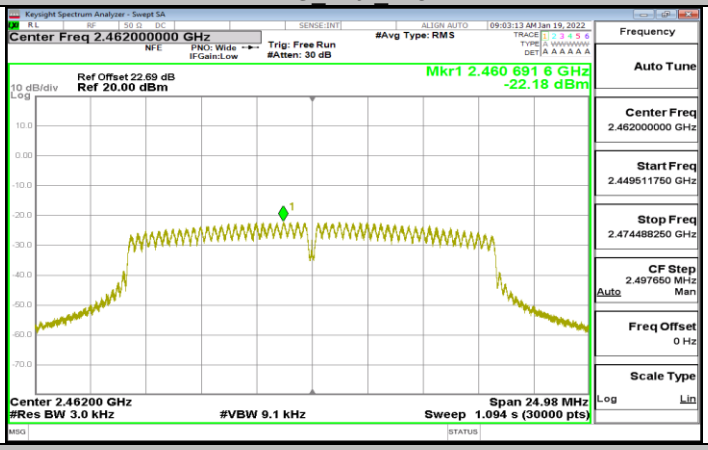


11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462

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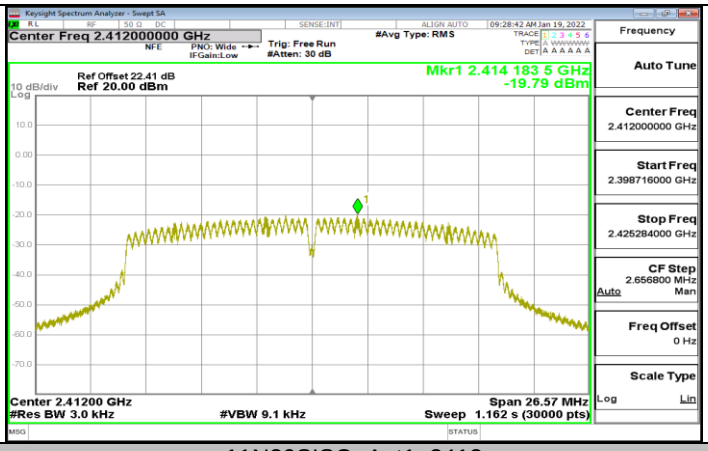
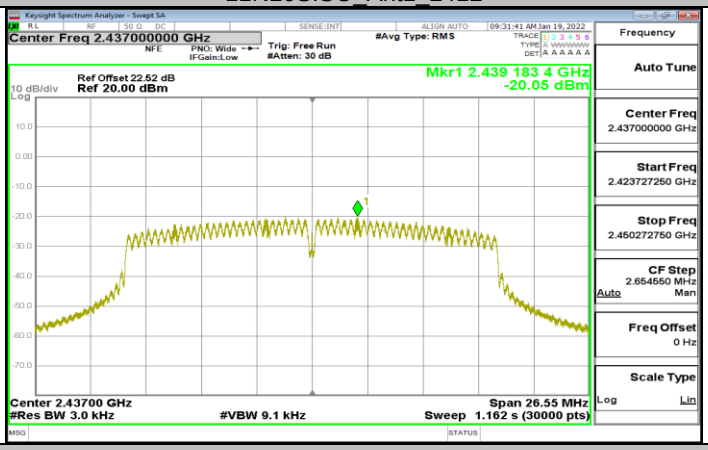
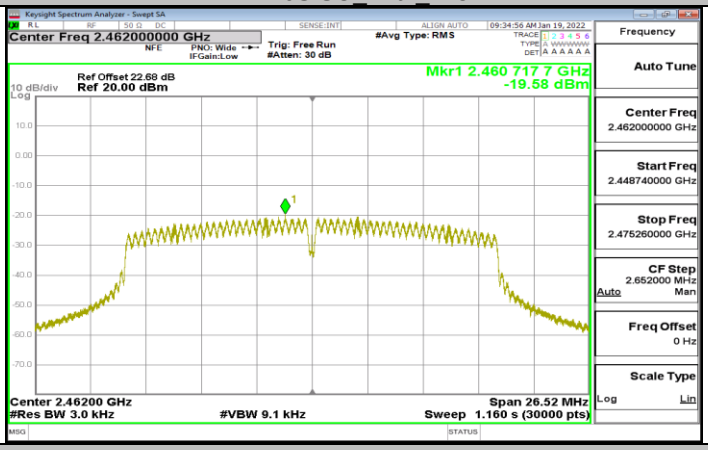


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

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10.5. Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.92	-29.79	≤-21.08	PASS
		High	2462	8.45	-37.36	≤-21.55	PASS
11G	Ant1	Low	2412	4.72	-27.05	≤-25.28	PASS
		High	2462	4.23	-37.08	≤-25.77	PASS
11N20SISO	Ant1	Low	2412	4.52	-27.52	≤-25.48	PASS
		High	2462	4.50	-37.11	≤-25.5	PASS

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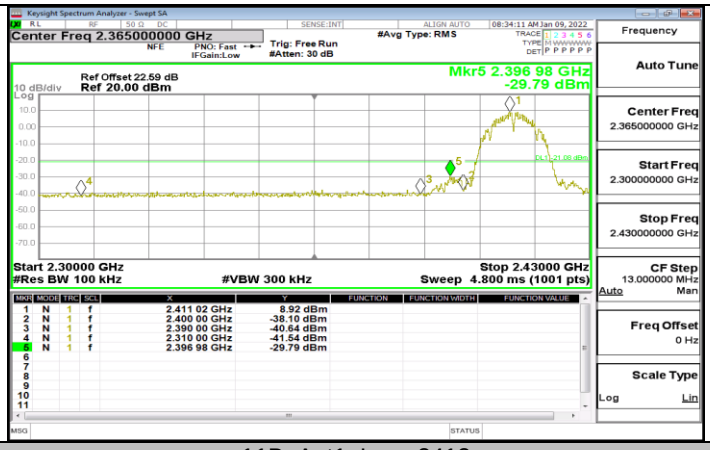
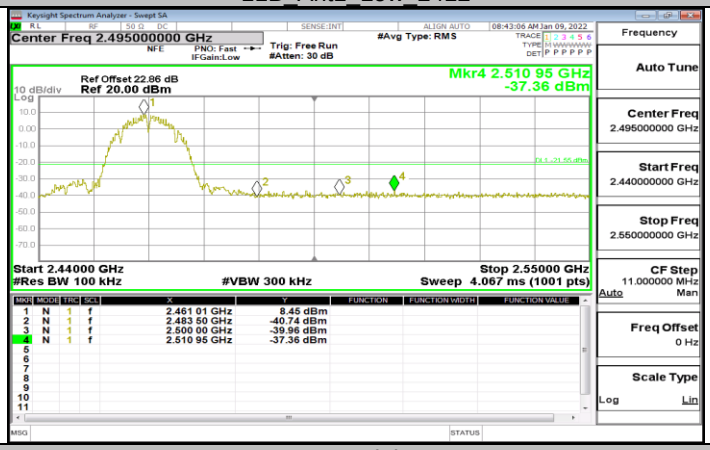
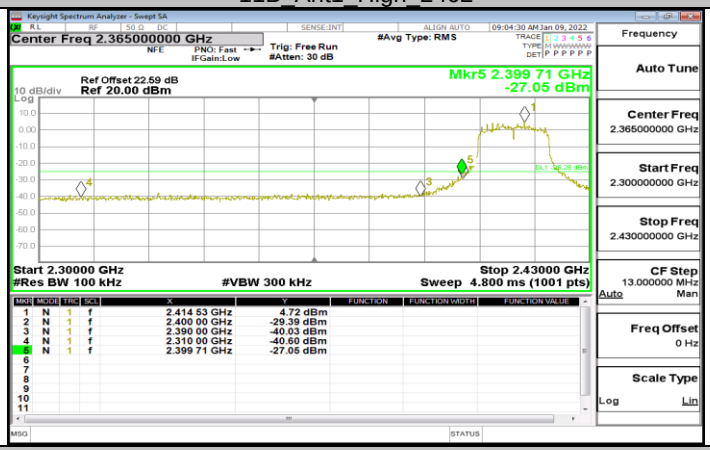
10.5.1. Test Graphs



11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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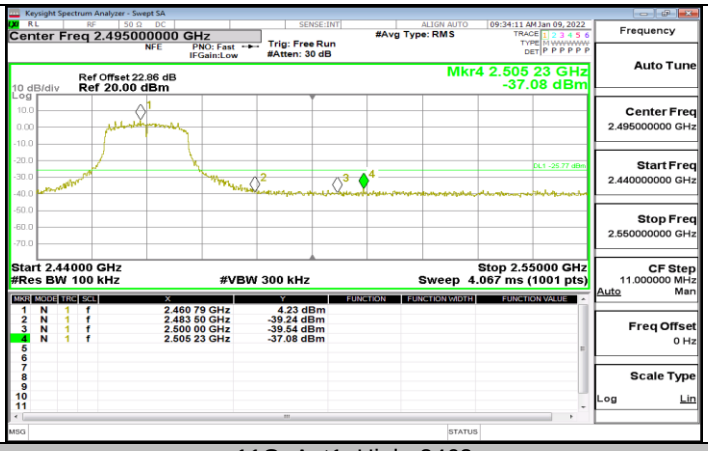
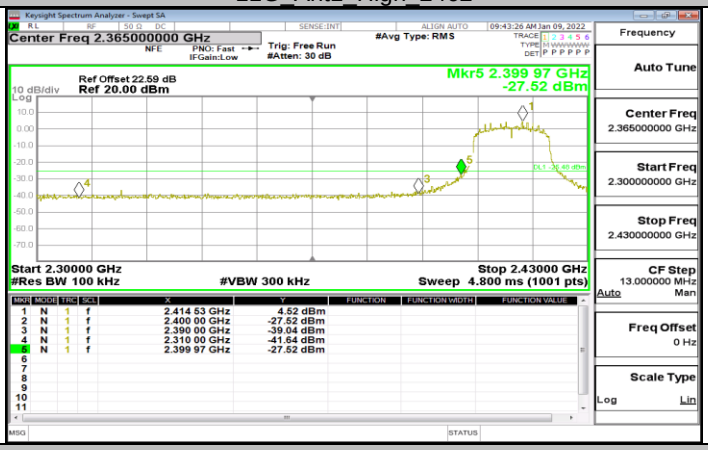
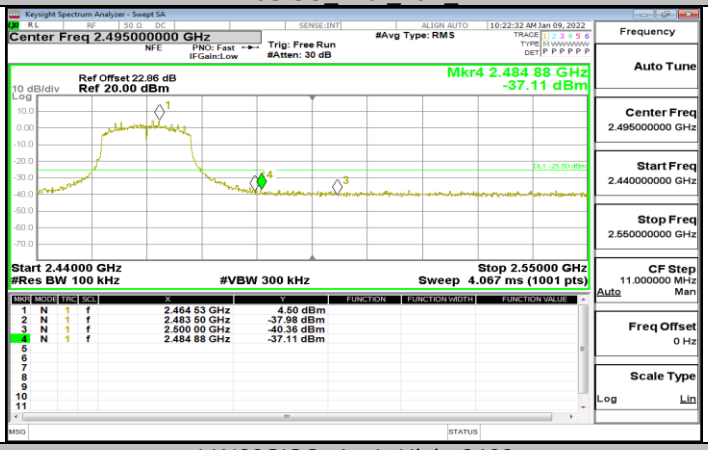


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

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10.6. Appendix F: Conducted Spurious Emission

10.6.1. Test Result

Test Mode	Antenna	Channel	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.88	---	PASS
			30~1000	-50.25	≤-23.12	PASS
			1000~26500	-41.18	≤-23.12	PASS
		2437	Reference	7.28	---	PASS
			30~1000	-50.51	≤-22.72	PASS
			1000~26500	-41.44	≤-22.72	PASS
		2462	Reference	6.40	---	PASS
			30~1000	-50.28	≤-23.6	PASS
			1000~26500	-41.18	≤-23.6	PASS
11G	Ant1	2412	Reference	1.14	---	PASS
			30~1000	-51.22	≤-28.86	PASS
			1000~26500	-41.7	≤-28.86	PASS
		2437	Reference	1.33	---	PASS
			30~1000	-49.06	≤-28.67	PASS
			1000~26500	-42.04	≤-28.67	PASS
		2462	Reference	3.64	---	PASS
			30~1000	-50.67	≤-26.36	PASS
			1000~26500	-40.65	≤-26.36	PASS
11N20SISO	Ant1	2412	Reference	2.75	---	PASS
			30~1000	-49.98	≤-27.25	PASS
			1000~26500	-40.98	≤-27.25	PASS
		2437	Reference	1.09	---	PASS
			30~1000	-50.38	≤-28.91	PASS
			1000~26500	-42.13	≤-28.91	PASS
		2462	Reference	1.90	---	PASS
			30~1000	-49.75	≤-28.1	PASS
			1000~26500	-41.31	≤-28.1	PASS

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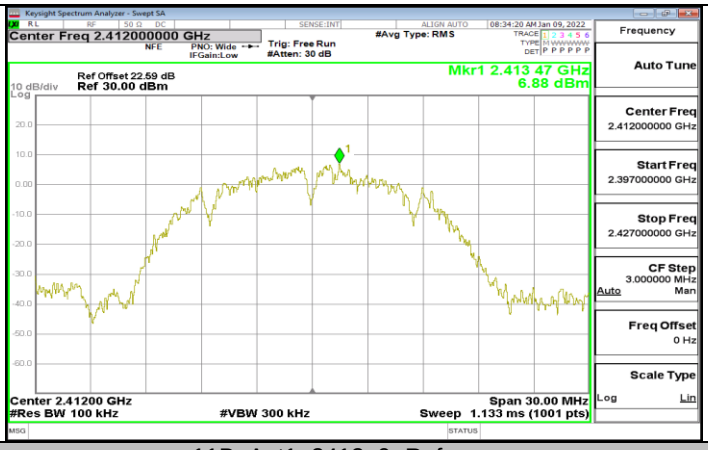
10.6.2. Test Graphs



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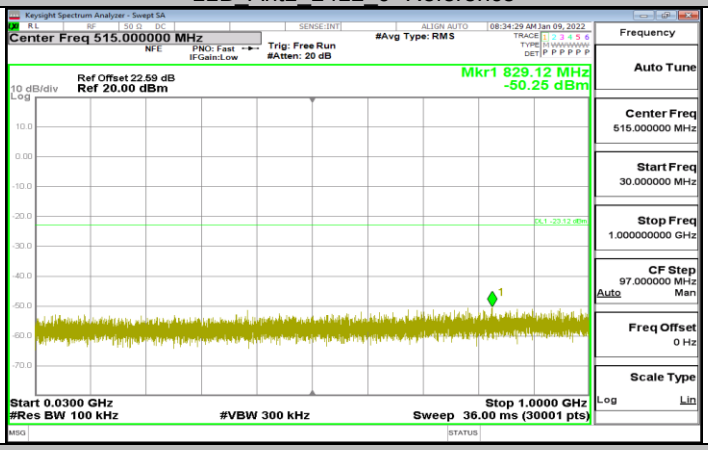

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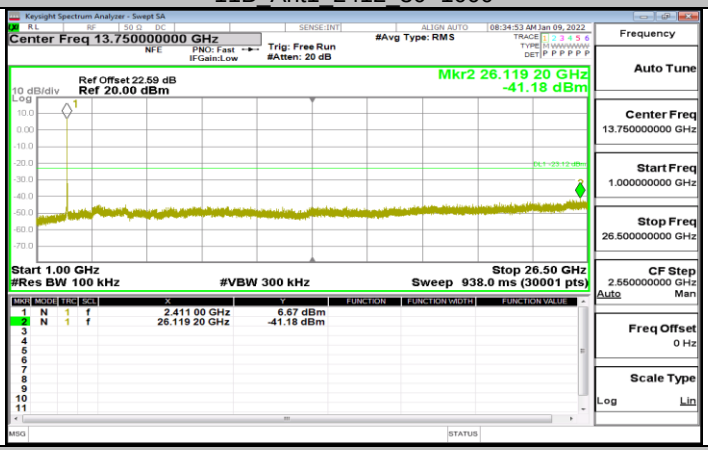

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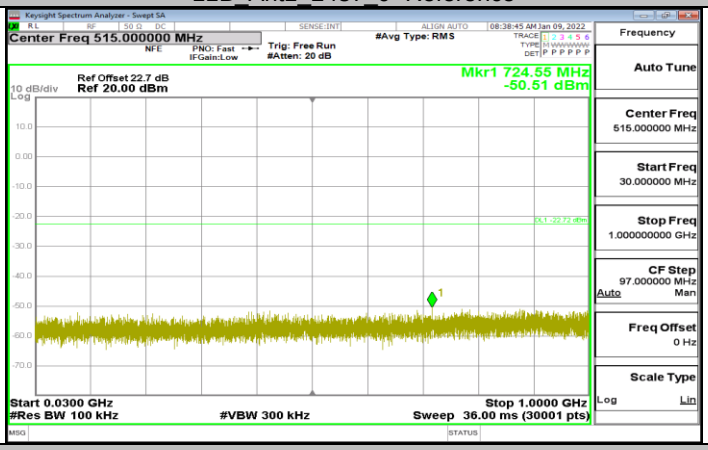

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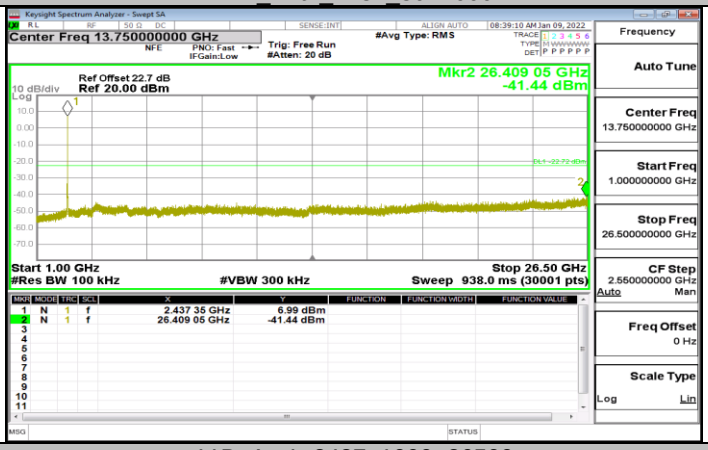

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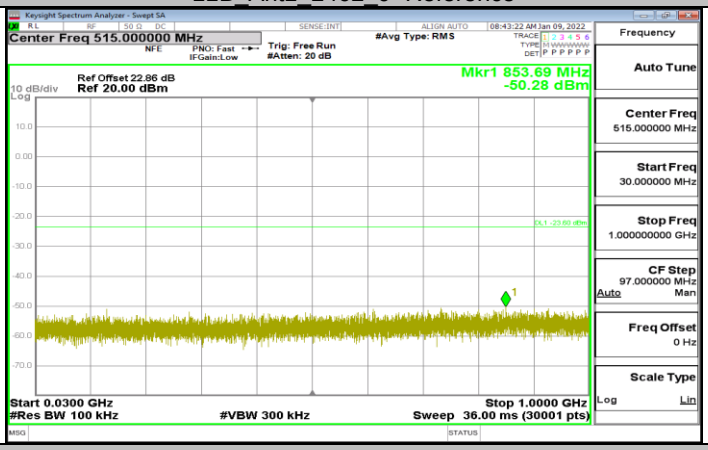

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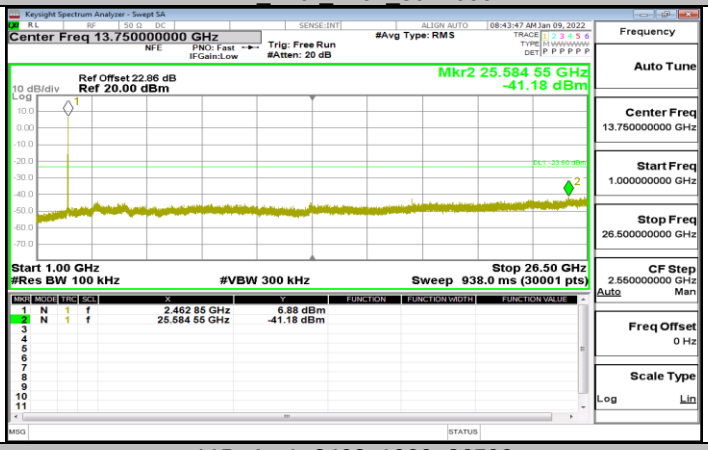

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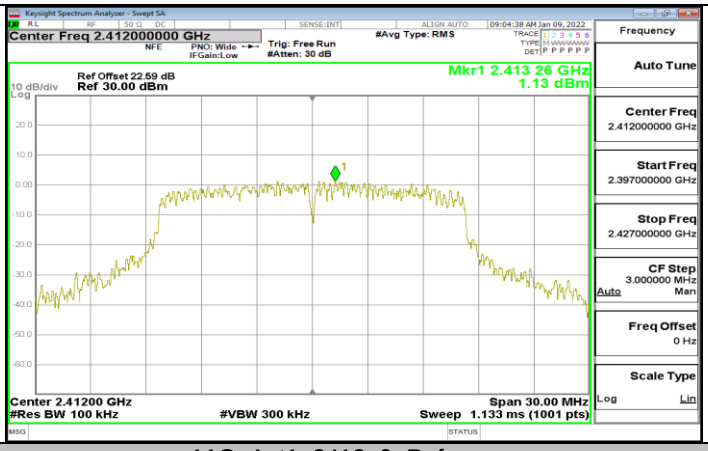

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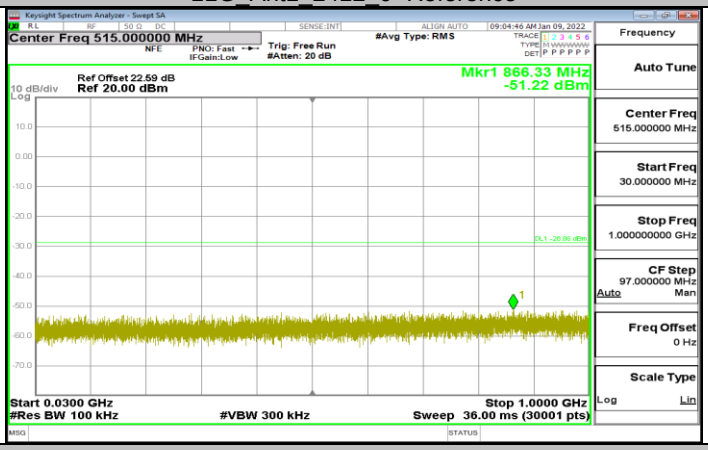

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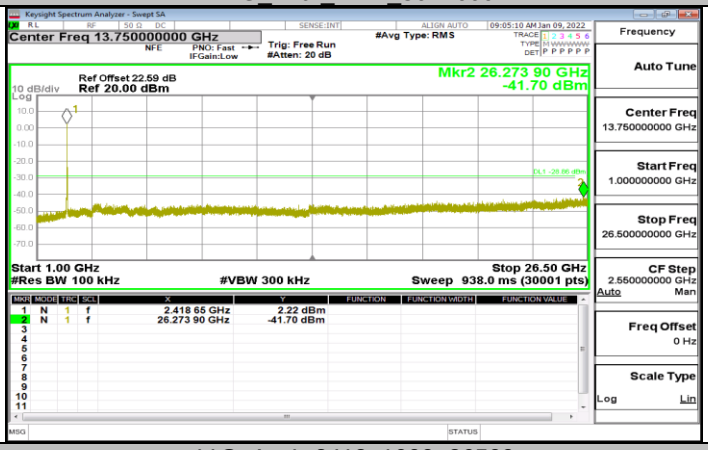

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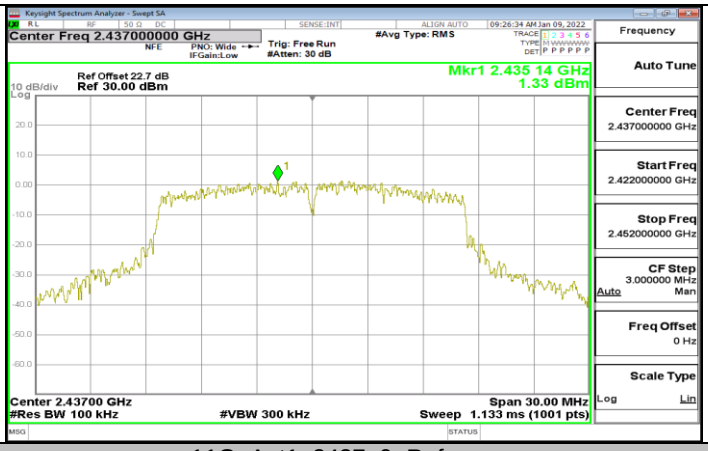

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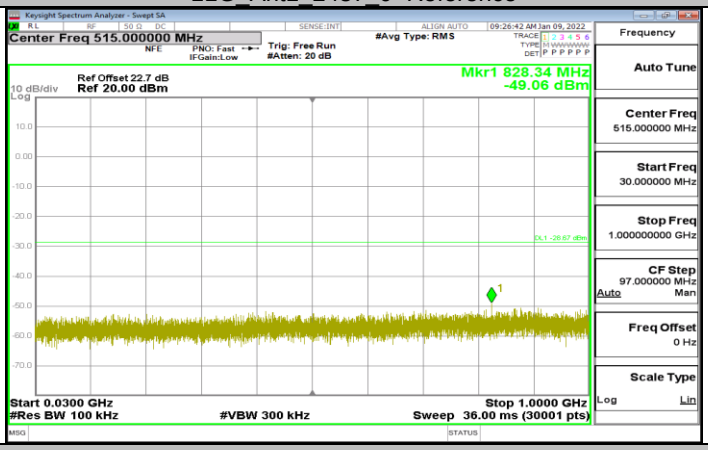

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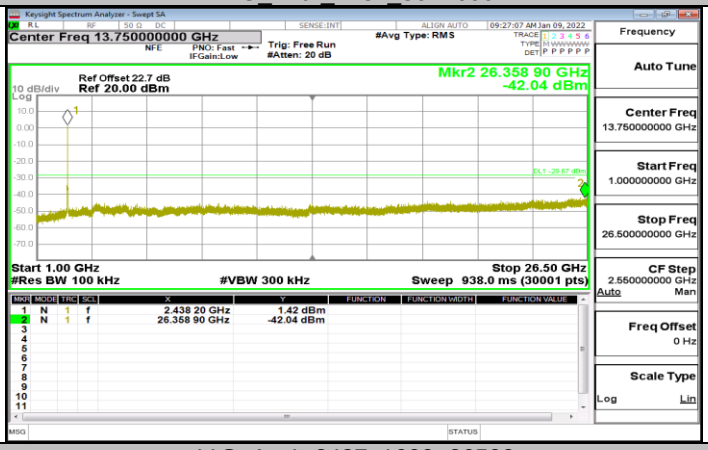

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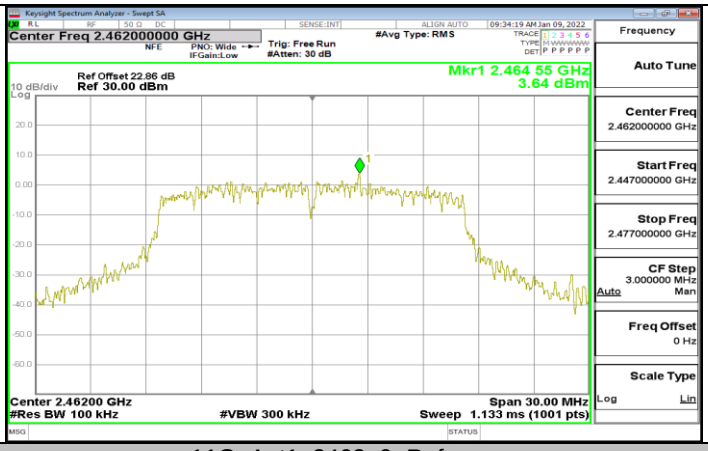

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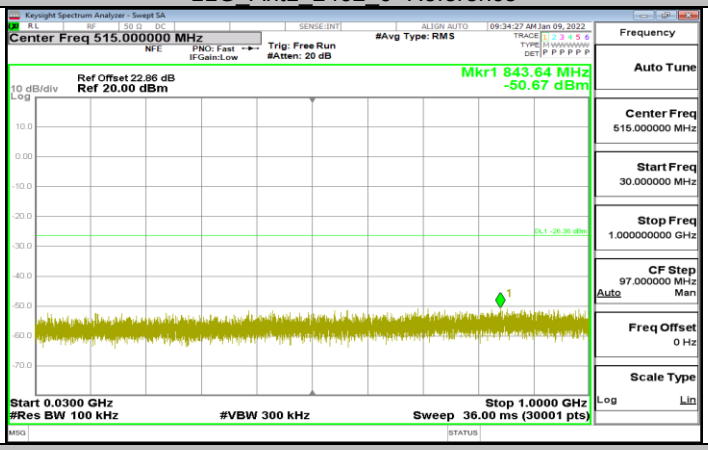

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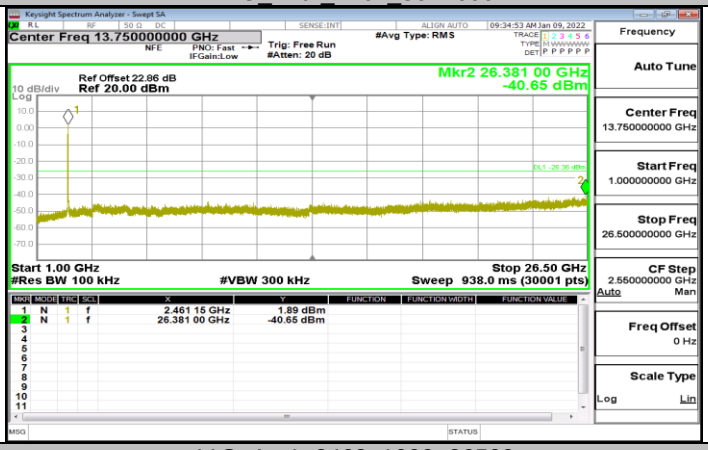

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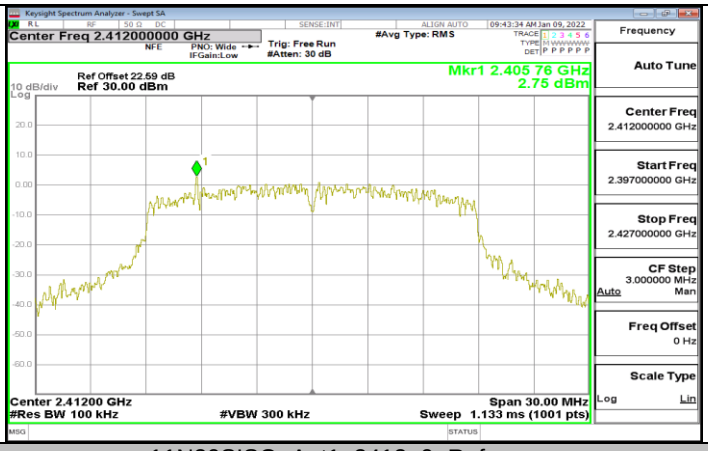

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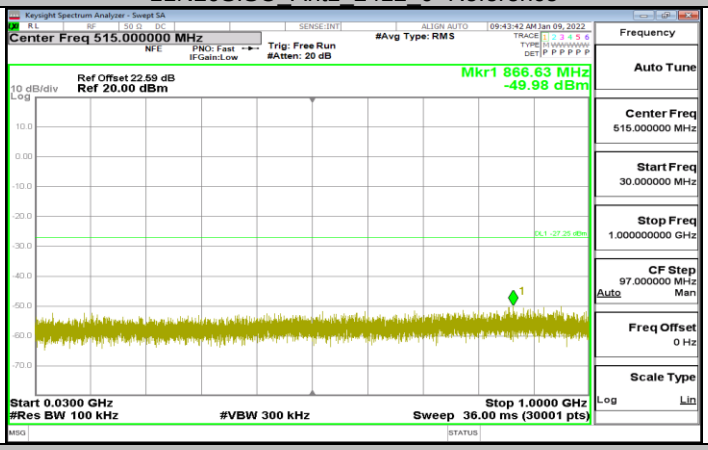

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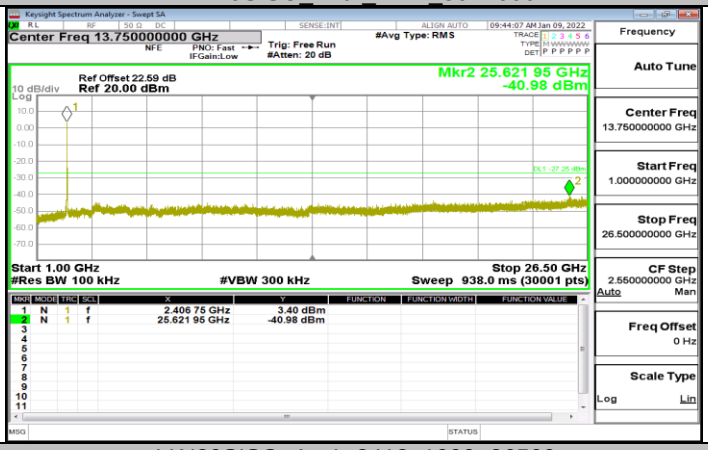

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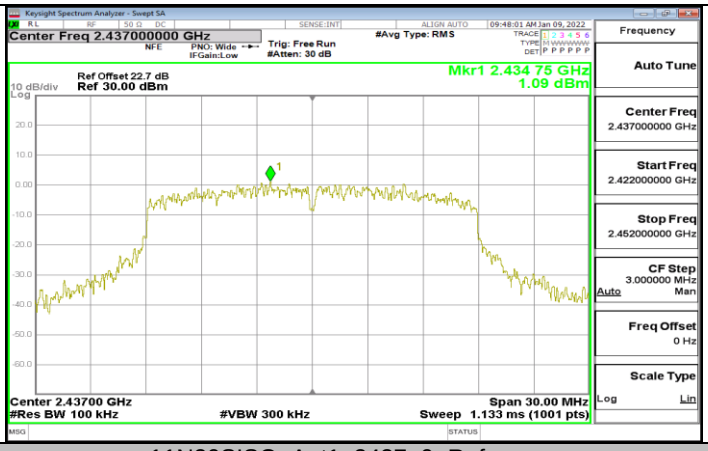

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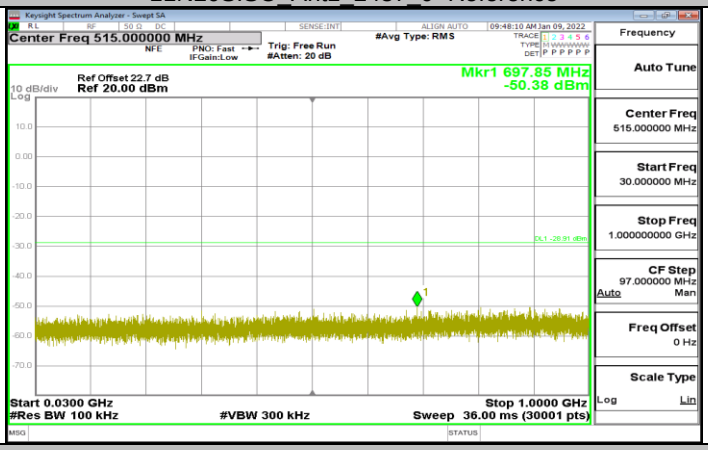

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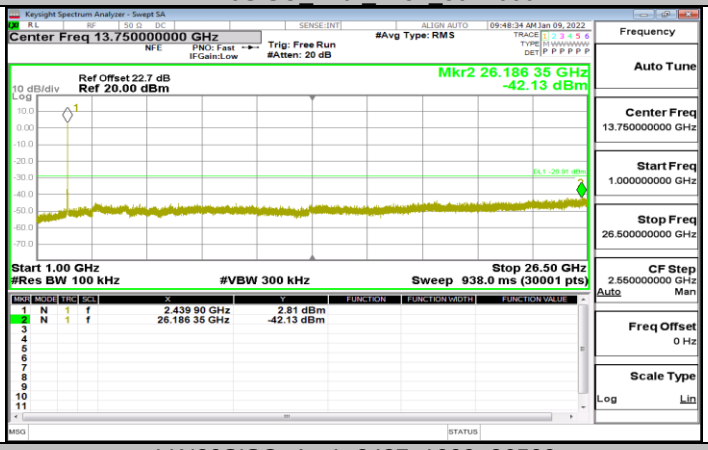

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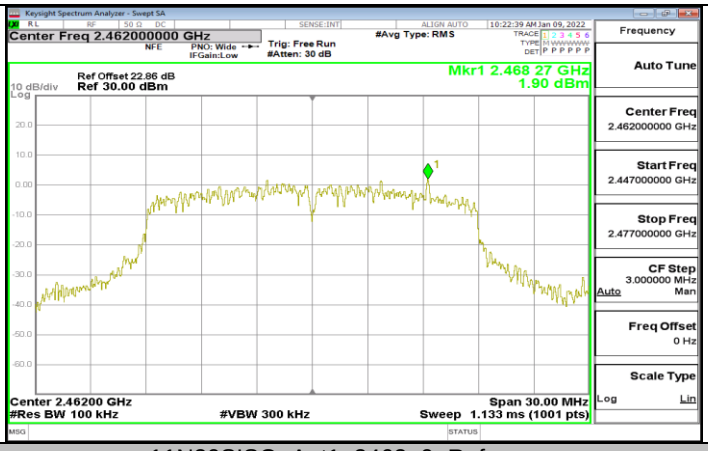

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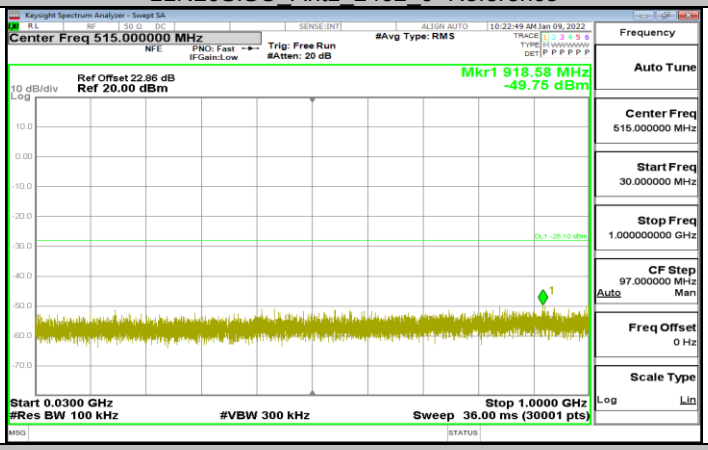

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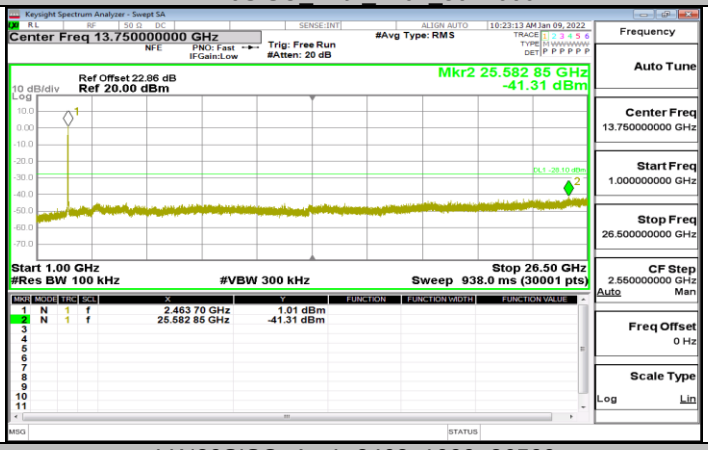

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10.7. Appendix G: Duty Cycle

Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	8.42	8.52	0.9883	98.83	0.05	0.12	0.01
11G	1.39	1.49	0.9329	93.29	0.30	0.72	1
11N20SISO	1.31	1.41	0.9291	92.91	0.32	0.76	1

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

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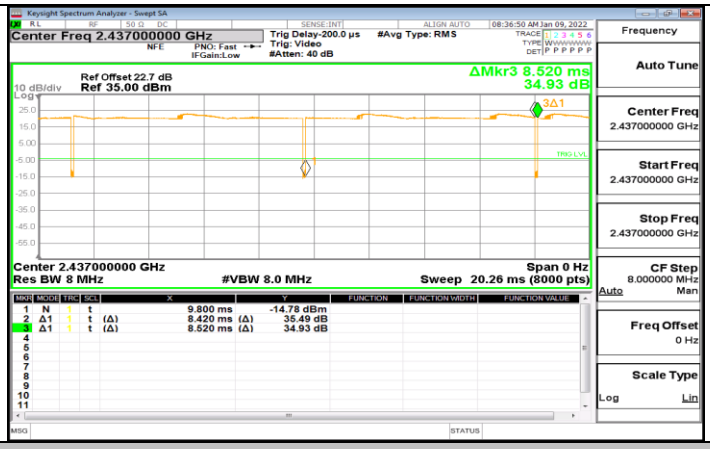
10.7.1. Test Graphs



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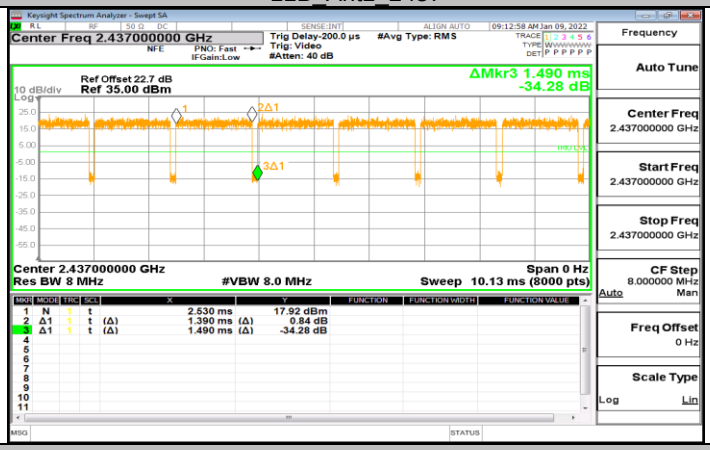

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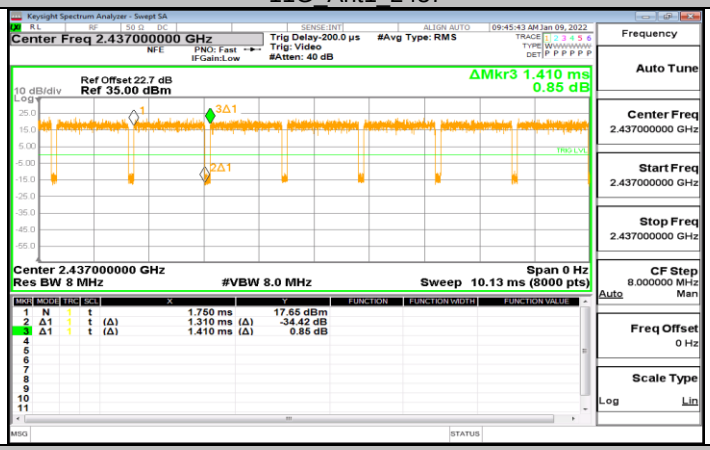

11N20SISO_Ant1_2437

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