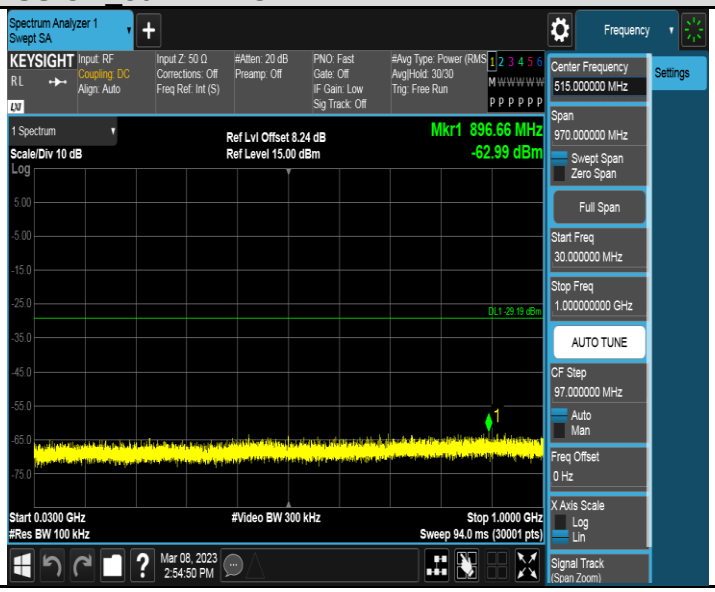
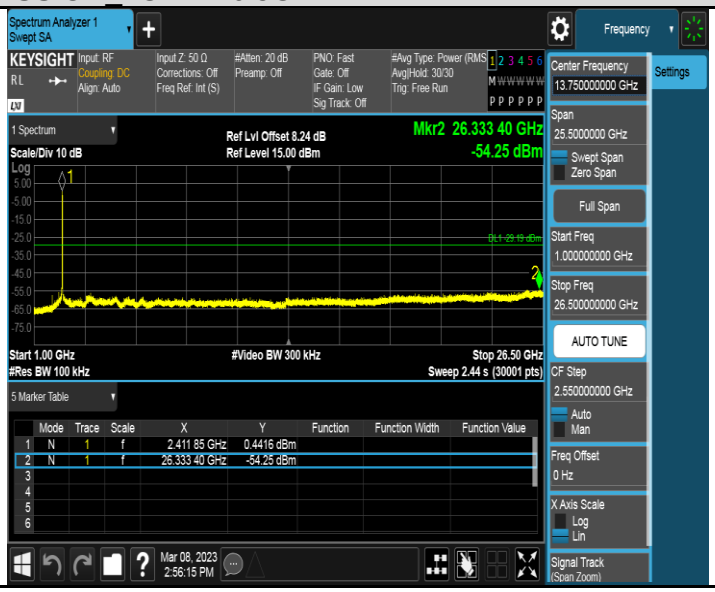
Test Mode	Channel	Verdict
11G	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz



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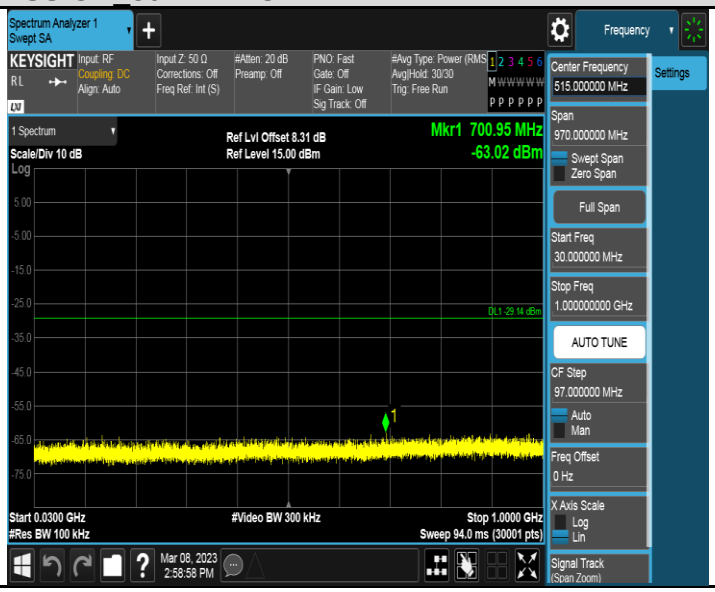
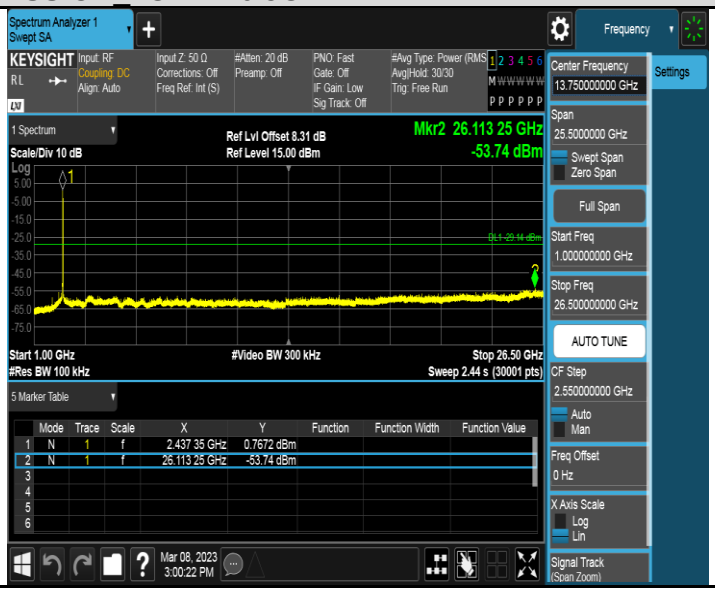
Test Mode	Channel	Verdict
11G	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz



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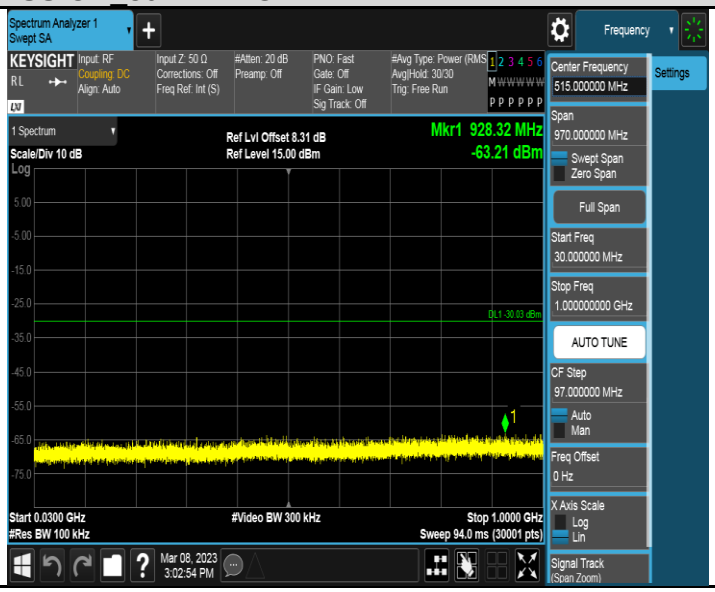
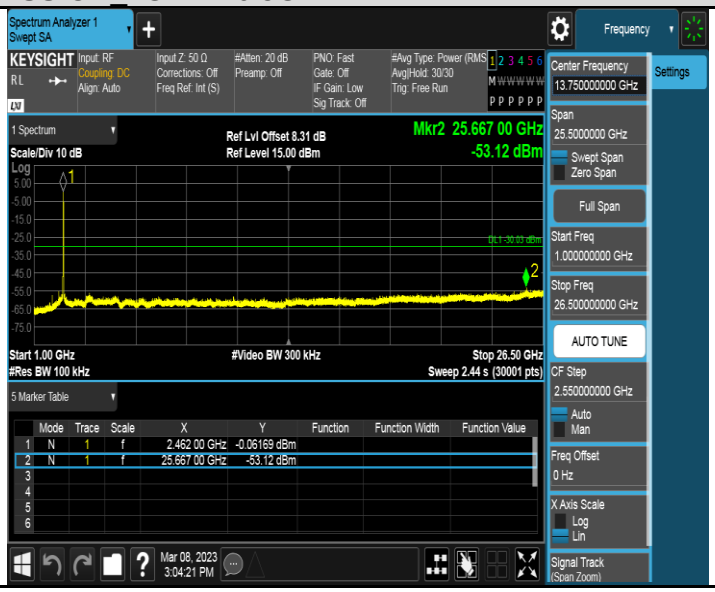
Test Mode	Channel	Verdict
11G	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz



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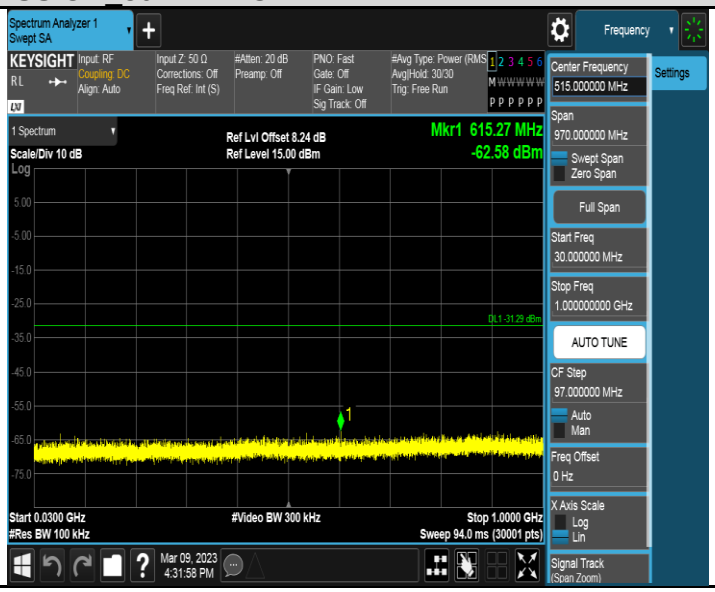
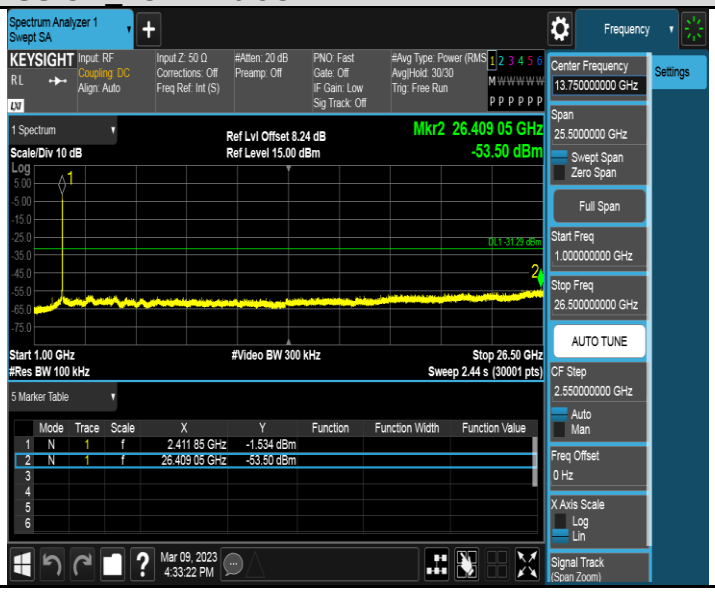
Test Mode	Channel	Verdict
11N HT20	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz



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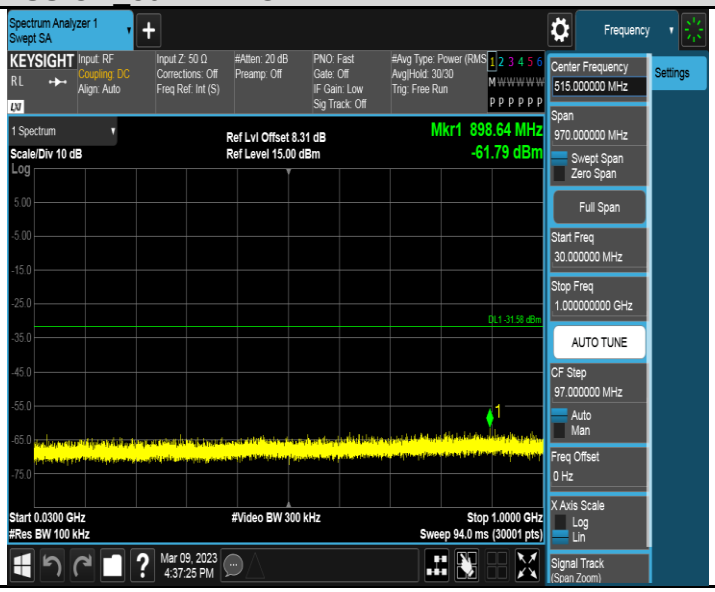
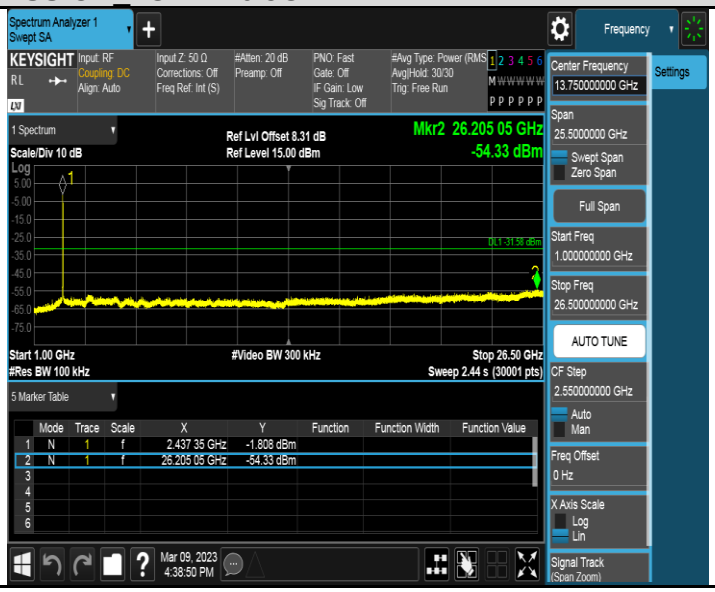
Test Mode	Channel	Verdict
11N HT20	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz



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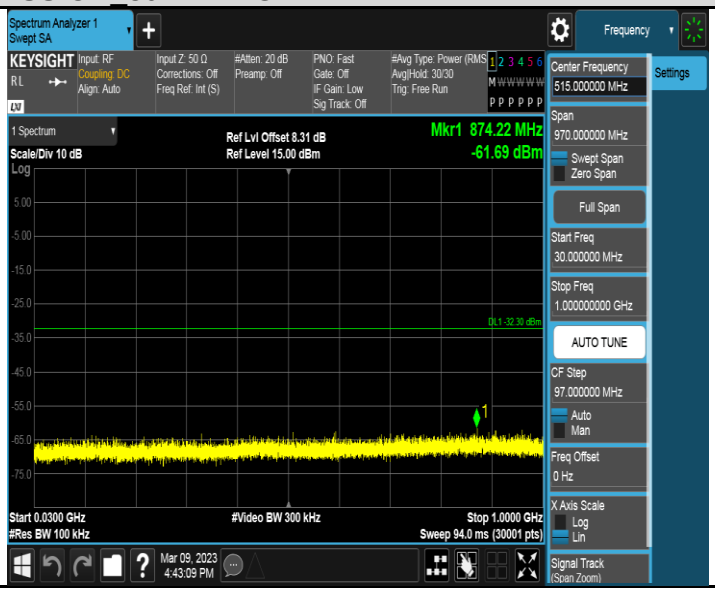
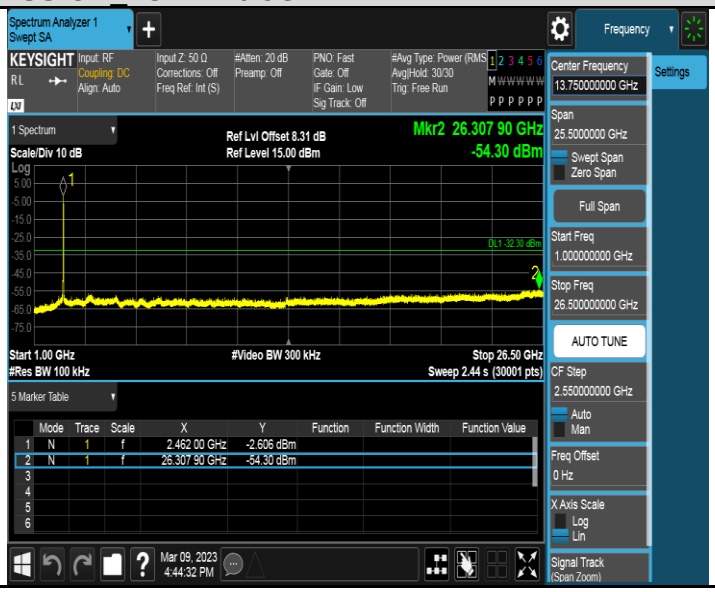
Test Mode	Channel	Verdict
11N HT20	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz



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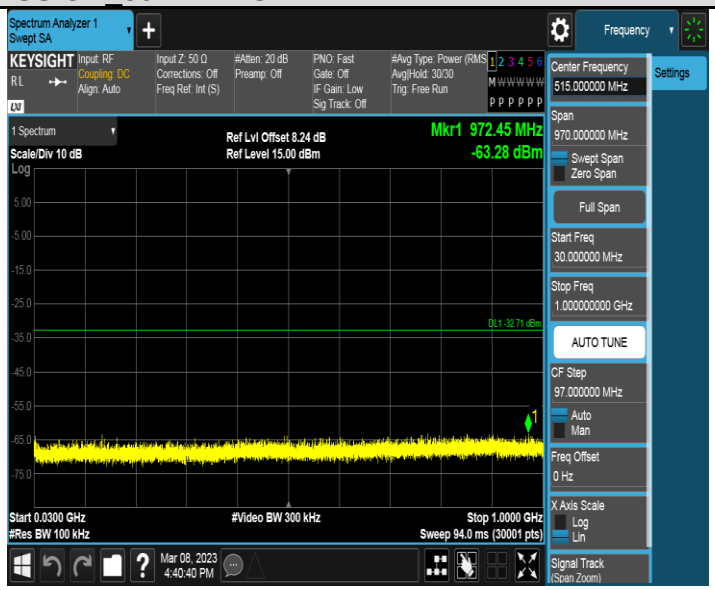
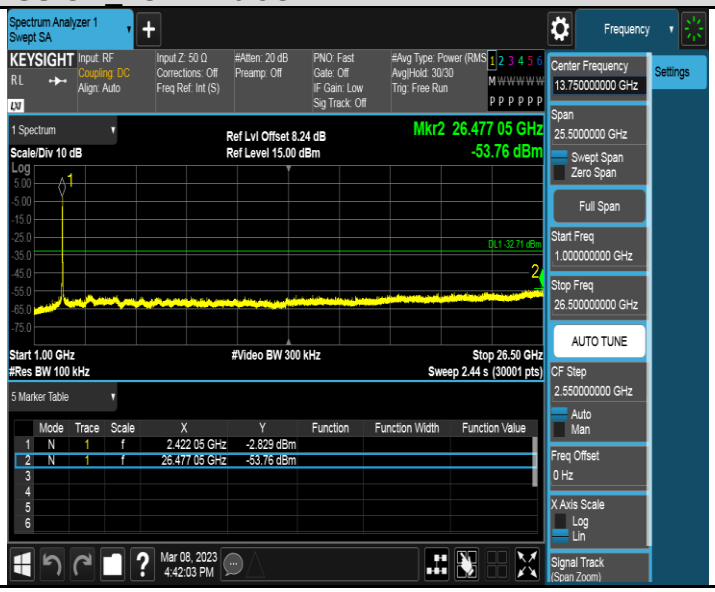
Test Mode	Channel	Verdict
11N HT40	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz



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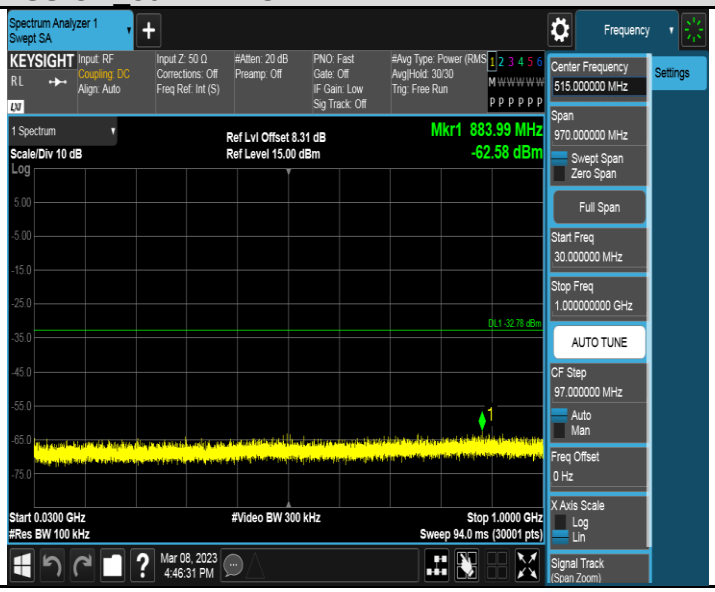
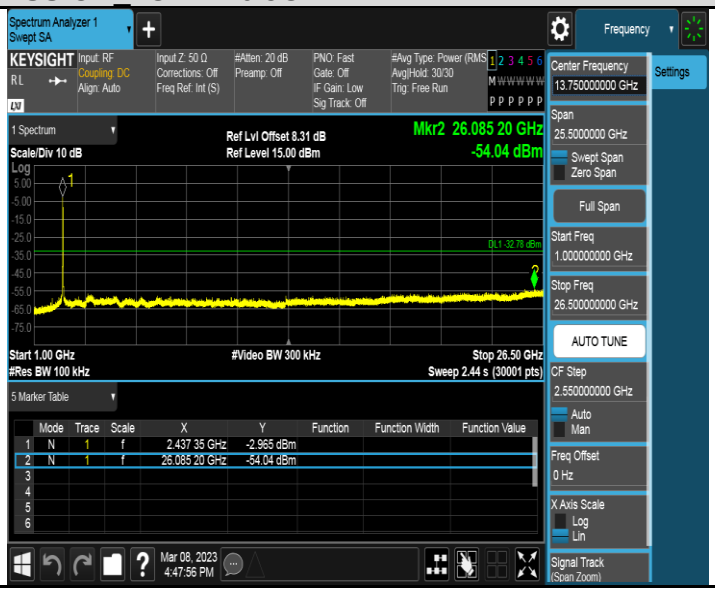
Test Mode	Channel	Verdict
11N HT40	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz



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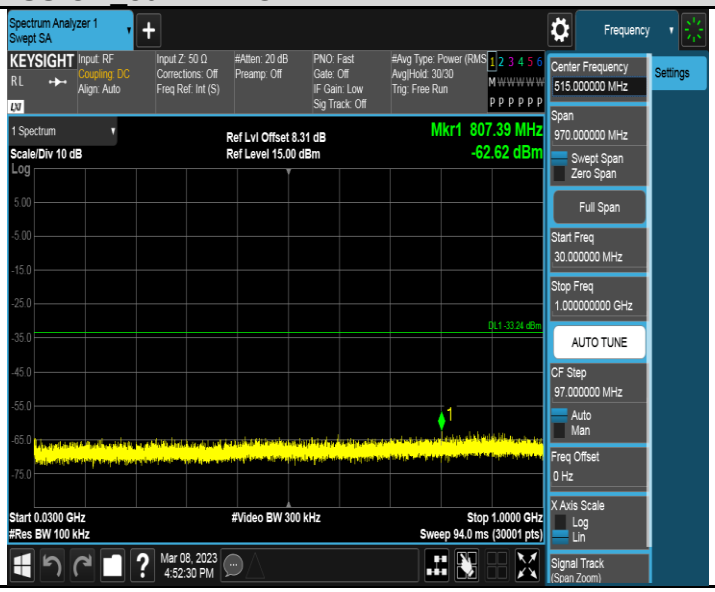
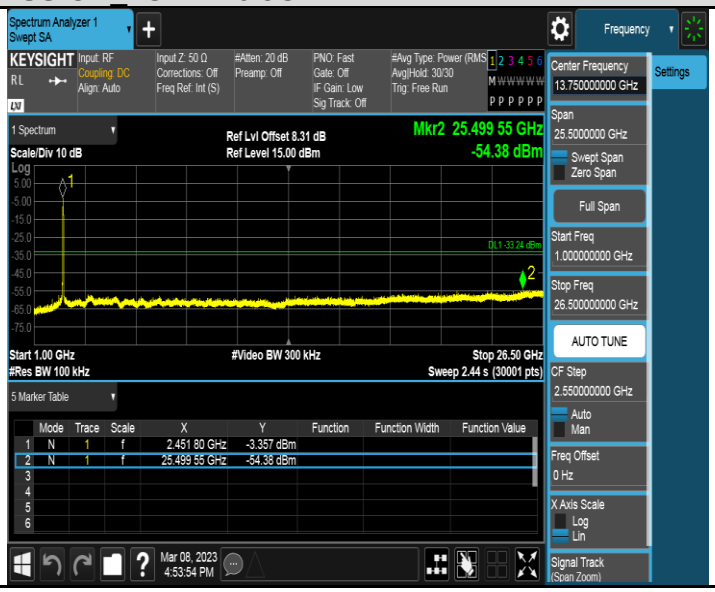
Test Mode	Channel	Verdict
11N HT40	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz



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8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

Please refer to FCC §15.205 and §15.209
Please refer to FCC KDB 558074
Radiation Disturbance Test Limit for FCC (Class B) (9kHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

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Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

Restricted bands of operation

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			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

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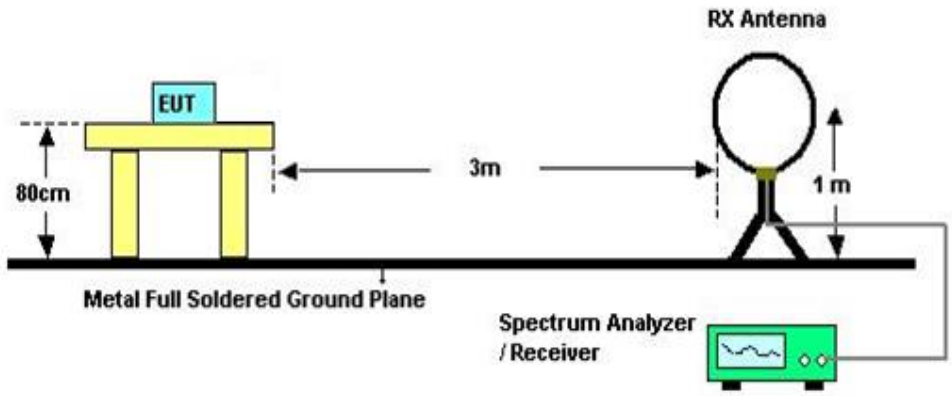
TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

5. The radiated emission limits are based on 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

6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

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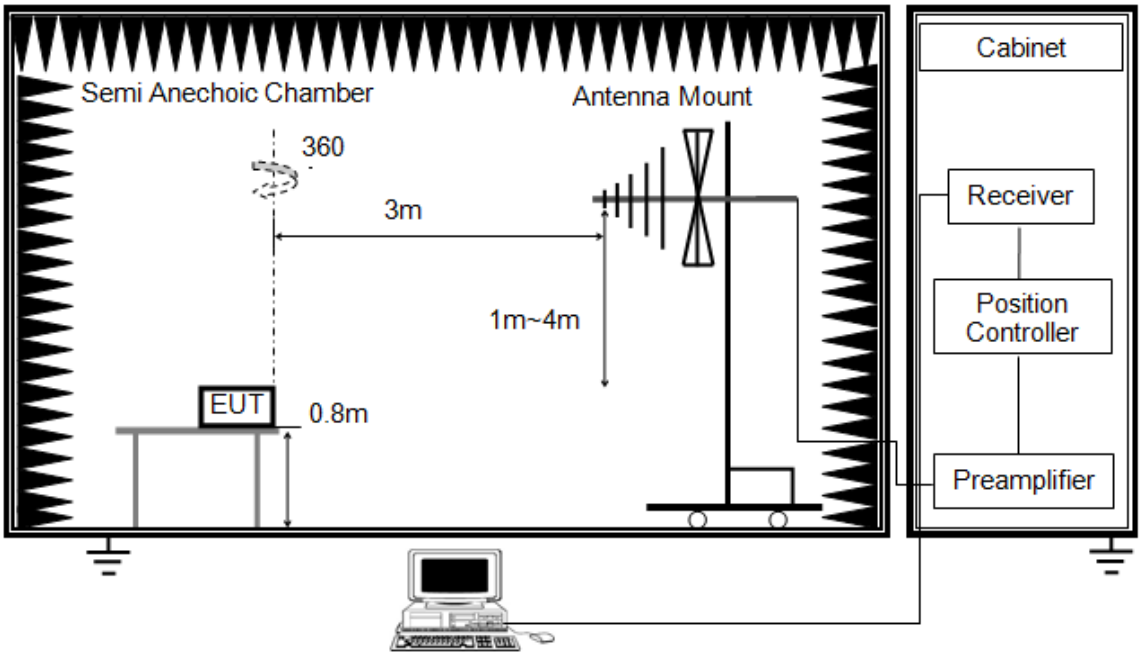
Below 1G



The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

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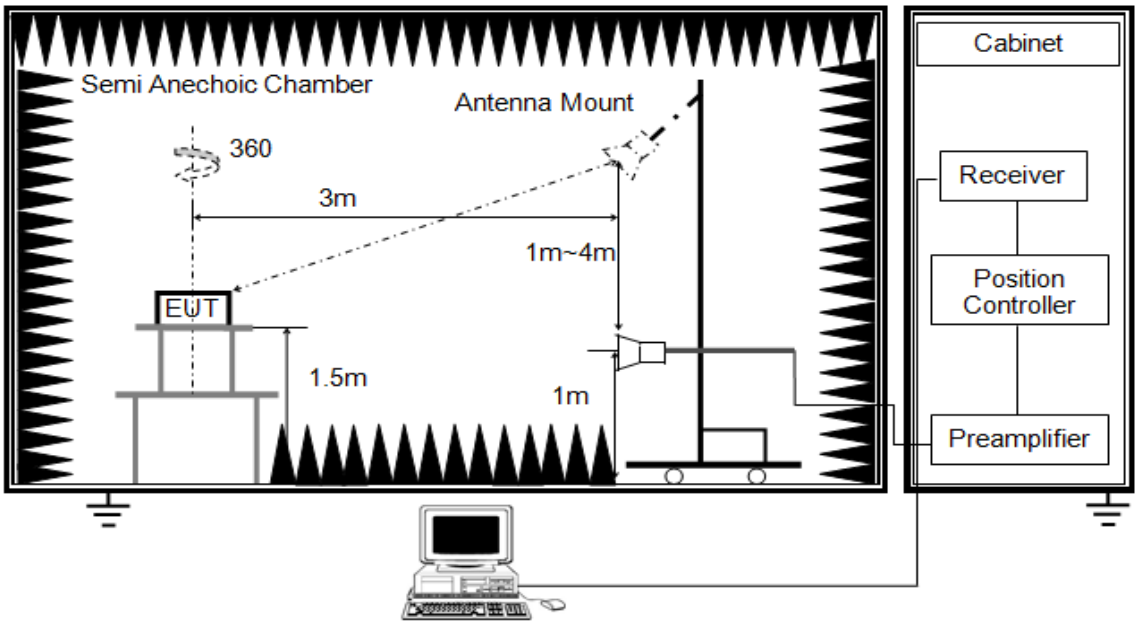
Above 1G



The setting of the spectrum analyser

RBW	1M
VBW	PEAK:3M AVG: See note6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz, the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements; and 1 MHz resolution bandwidth with video bandwidth ⩾1/T but not less than the setting list in section 7.1 when use peak detector, max hold to be run for at least [50*(1/Duty Cycle)] traces for average measurements. For the Duty Cycle need to refer the results in section 7.1.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

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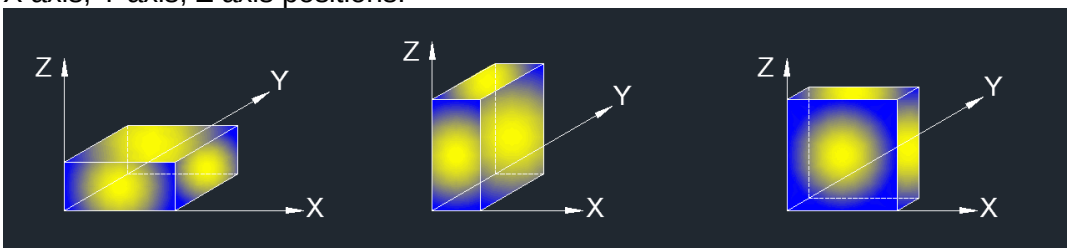
X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worse case (X axis) data recorded in the report.

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8.2. RESTRICTED BANDEDGE

TEST ENVIRONMENT

Temperature	20.0℃	Relative Humidity	53.5%
Atmosphere Pressure	101.8kpa	Test Voltage	DC5V

TEST RESULT TABLE

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B	Antenna1	LCH	<Limit	PASS
		HCH	<Limit	PASS
11G	Antenna1	LCH	<Limit	PASS
		HCH	<Limit	PASS
11N HT20 MIMO	Antenna1+2	LCH	<Limit	PASS
		HCH	<Limit	PASS
11N HT40 MIMO	Antenna1+2	LCH	<Limit	PASS
		HCH	<Limit	PASS

Remark:

1) For this product, it has five antennas, but only two antennas for M8822CU3 RF module. For this M8822CU3 RF module, only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only support SISO mode.
2) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.
3) Through pre-testing both antennas of test modes of 11B and 11G, but only the data if worse case is included in this test report.

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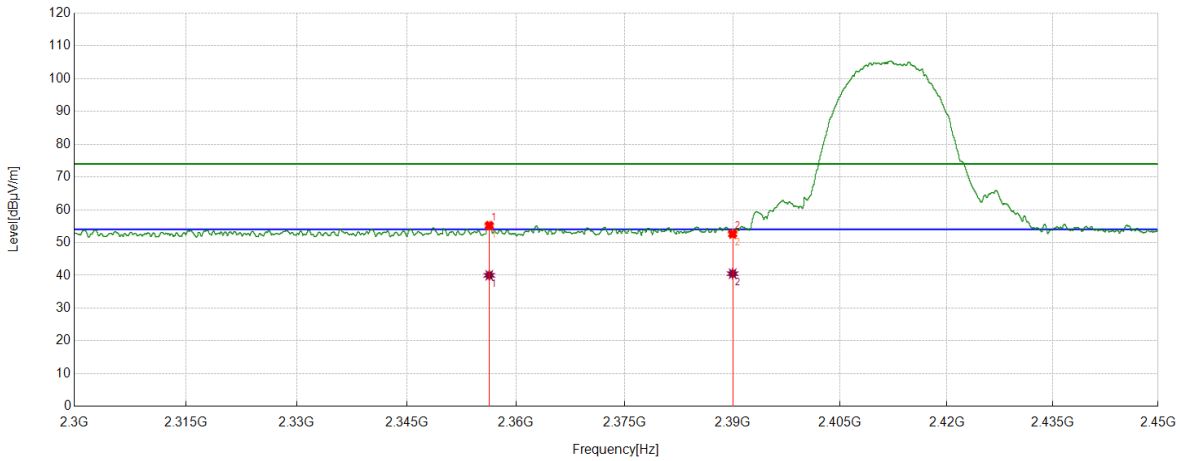
TEST GRAPHS

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2356.332	45.28	9.91	55.19	74.00	18.81	Horizontal
2	2390.0000	42.29	10.35	52.64	74.00	21.36	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2356.332	30.10	9.91	40.01	54.00	13.99	Horizontal
2	2390.0000	30.16	10.35	40.51	54.00	13.49	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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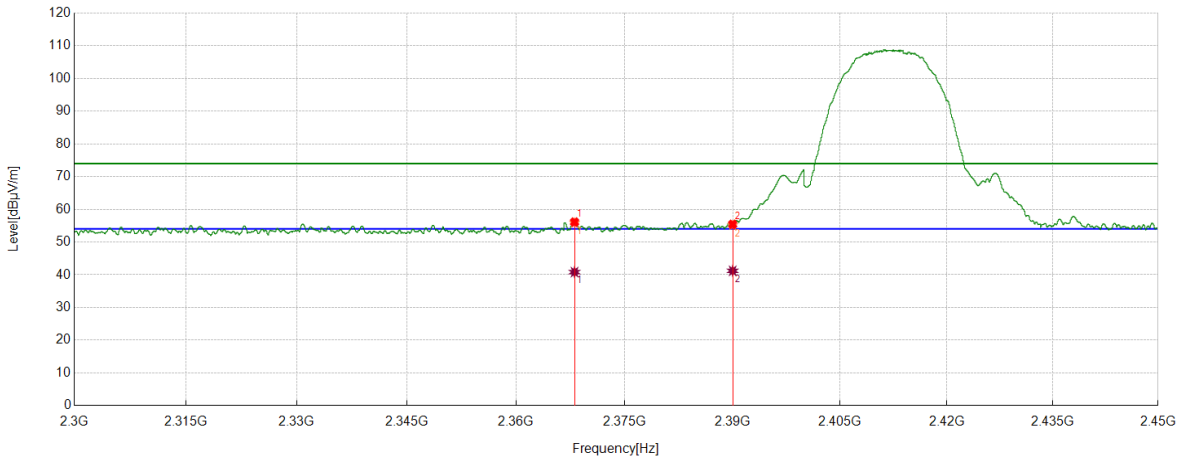
Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2368.071	46.04	10.07	56.11	74.00	17.89	Vertical
2	2390.0000	45.08	10.35	55.43	74.00	18.57	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2368.071	30.75	10.07	40.82	54.00	13.18	Vertical
2	2390.0000	30.85	10.35	41.20	54.00	12.80	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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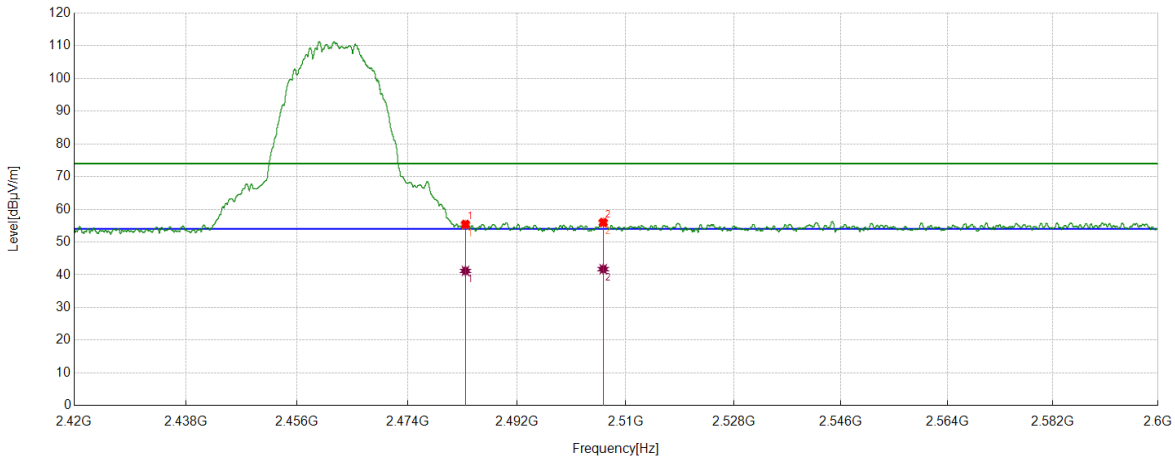
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	44.79	10.64	55.43	74.00	18.57	Horizontal
2	2506.2533	45.03	10.96	55.99	74.00	18.01	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.54	10.64	41.18	54.00	12.82	Horizontal
2	2506.2533	30.76	10.96	41.72	54.00	12.28	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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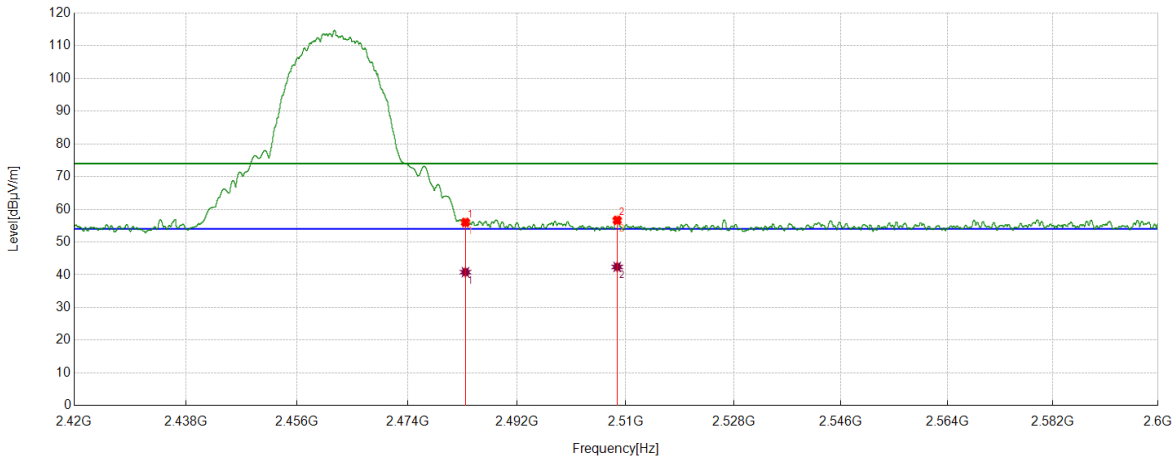
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	45.40	10.64	56.04	74.00	17.96	Vertical
2	2508.5711	45.62	11.05	56.67	74.00	17.33	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.17	10.64	40.81	54.00	13.19	Vertical
2	2508.5711	31.35	11.05	42.40	54.00	11.60	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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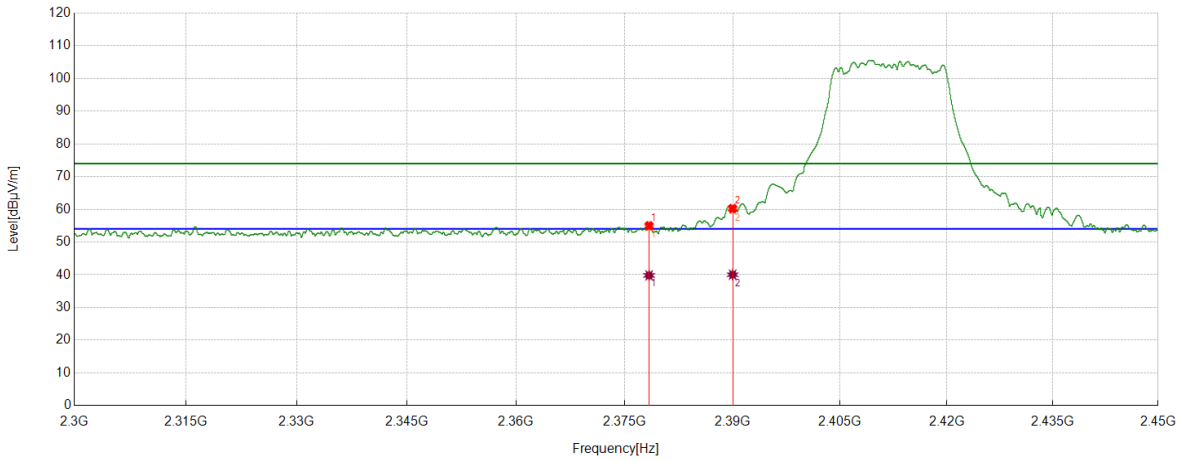
Test Mode	Channel	Polarization	Verdict
11G	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2378.3848	44.71	10.27	54.98	74.00	19.02	Horizontal
2	2390.0000	49.91	10.35	60.26	74.00	13.74	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2378.3848	29.54	10.27	39.81	54.00	14.19	Horizontal
2	2390.0000	29.68	10.35	40.03	54.00	13.97	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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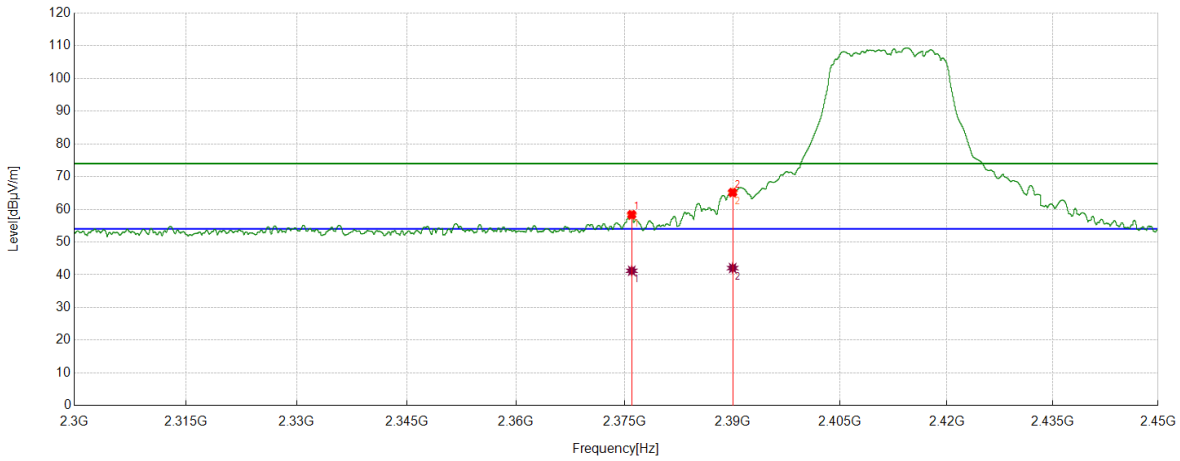
Test Mode	Channel	Polarization	Verdict
11G	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2375.9845	48.15	10.23	58.38	74.00	15.62	Vertical
2	2390.0000	54.80	10.35	65.15	74.00	8.85	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2375.9845	30.99	10.23	41.22	54.00	12.78	Vertical
2	2390.0000	31.70	10.35	42.05	54.00	11.95	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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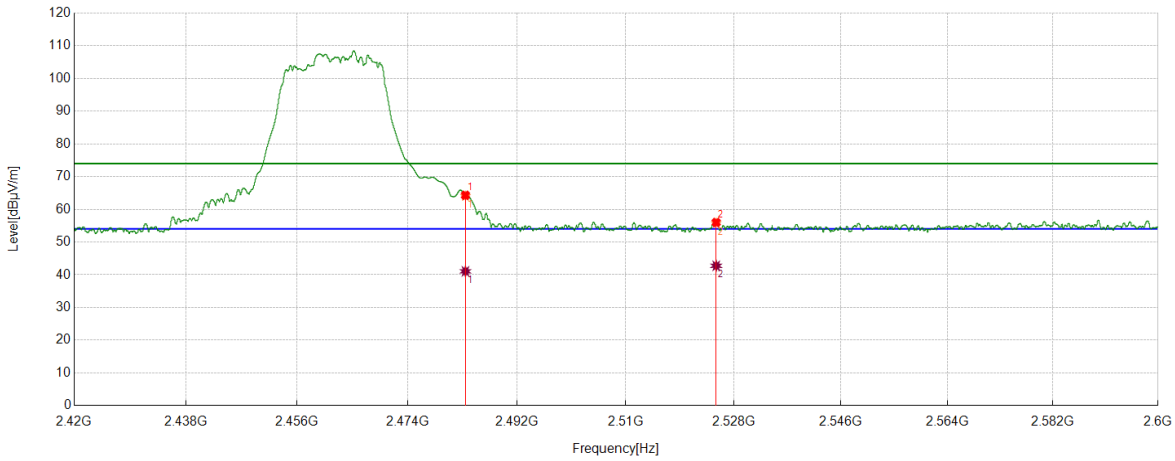
Test Mode	Channel	Polarization	Verdict
11G	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	53.67	10.64	64.31	74.00	9.69	Horizontal
2	2525.0656	44.83	11.17	56.00	74.00	18.00	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.41	10.64	41.05	54.00	12.95	Horizontal
2	2525.0656	31.57	11.17	42.74	54.00	11.26	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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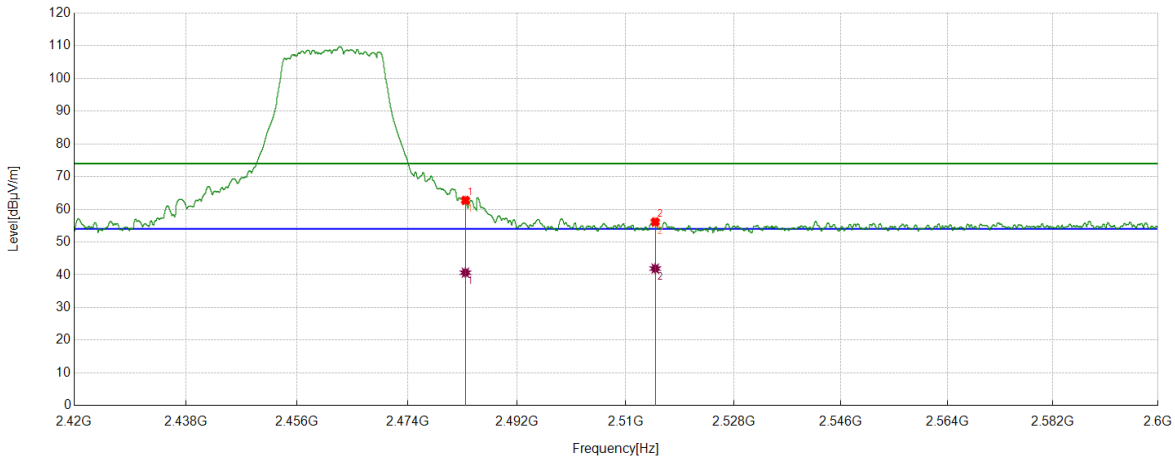
Test Mode	Channel	Polarization	Verdict
11G	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	52.11	10.64	62.75	74.00	11.25	Vertical
2	2514.8944	45.12	11.05	56.17	74.00	17.83	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.00	10.64	40.64	54.00	13.36	Vertical
2	2514.8944	30.84	11.05	41.89	54.00	12.11	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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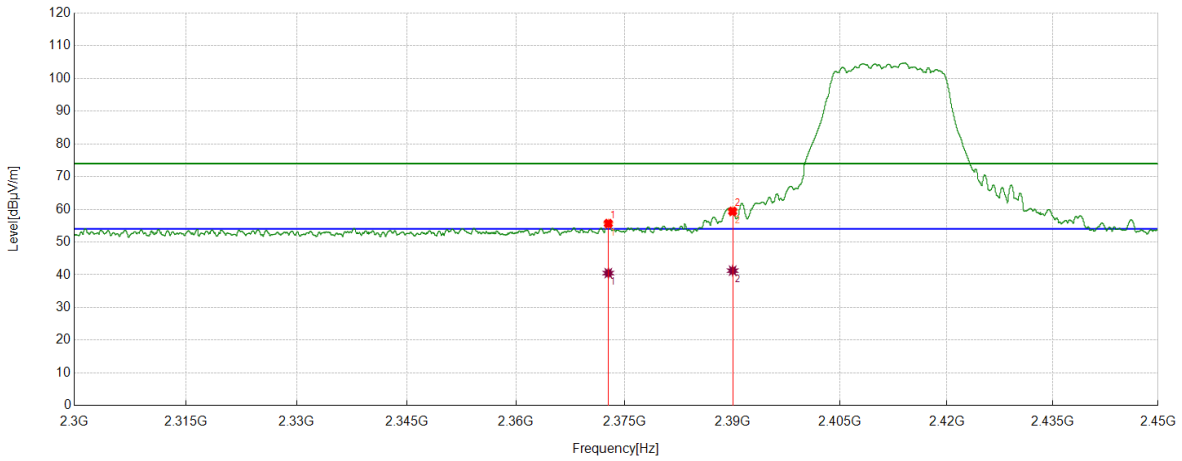
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2372.7403	45.52	10.16	55.68	74.00	18.32	Horizontal
2	2390.0000	49.05	10.35	59.40	74.00	14.60	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2372.7403	30.35	10.16	40.51	54.00	13.49	Horizontal
2	2390.0000	30.91	10.35	41.26	54.00	12.74	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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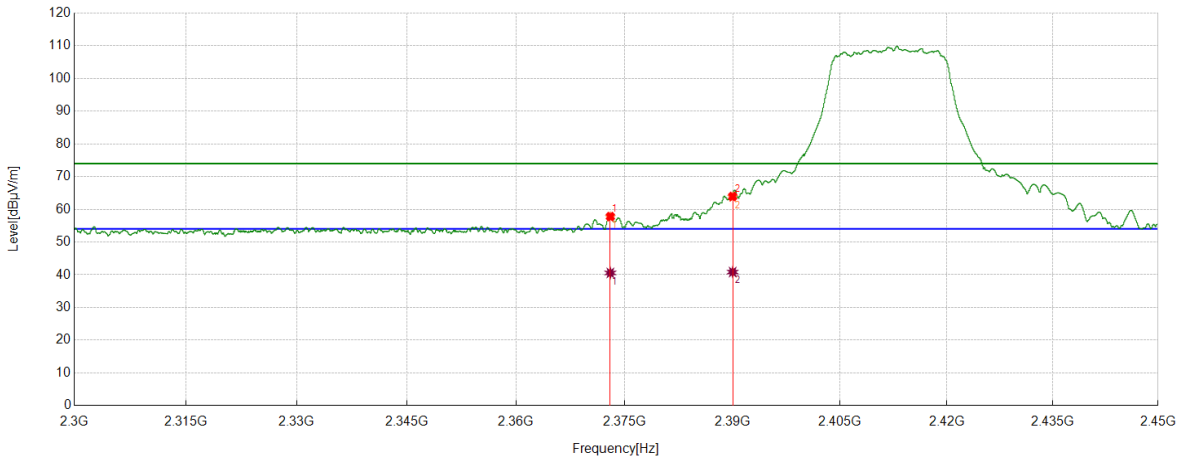
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2373.0216	47.63	10.17	57.80	74.00	16.20	Vertical
2	2390.0000	53.59	10.35	63.94	74.00	10.06	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2373.0216	30.39	10.17	40.56	54.00	13.44	Vertical
2	2390.0000	30.49	10.35	40.84	54.00	13.16	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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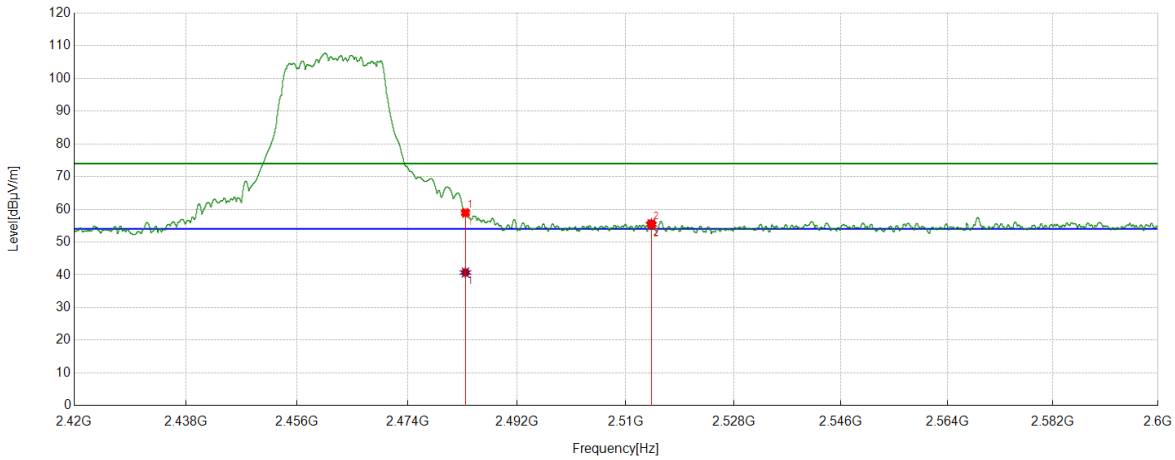
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	48.33	10.64	58.97	74.00	15.03	Horizontal
2	2514.2418	44.45	11.06	55.51	74.00	18.49	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.06	10.64	40.70	54.00	13.30	Horizontal
2	2514.2418	29.35	11.06	40.41	54.00	13.59	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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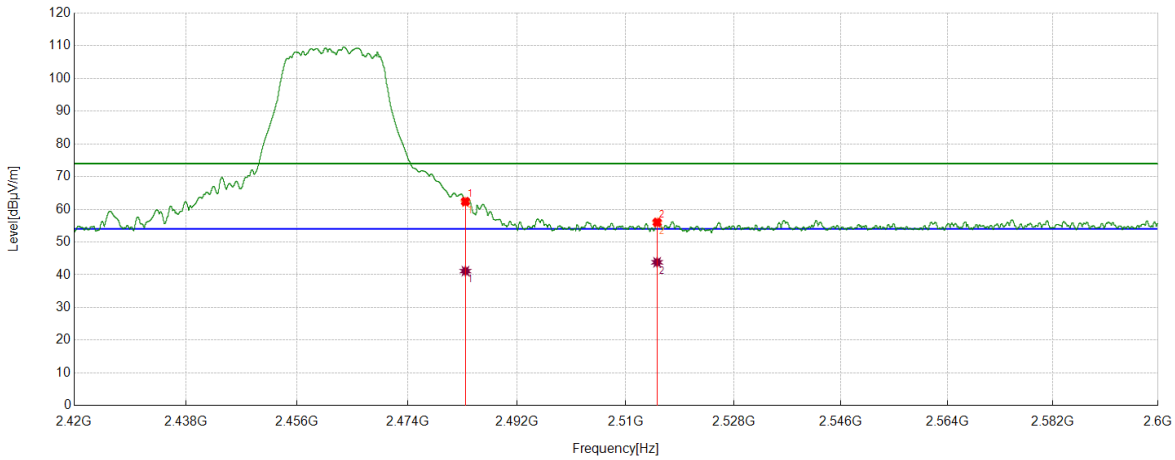
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	51.74	10.64	62.38	74.00	11.62	Vertical
2	2515.2094	44.98	11.05	56.03	74.00	17.97	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.48	10.64	41.12	54.00	12.88	Vertical
2	2515.2094	32.77	11.05	43.82	54.00	10.18	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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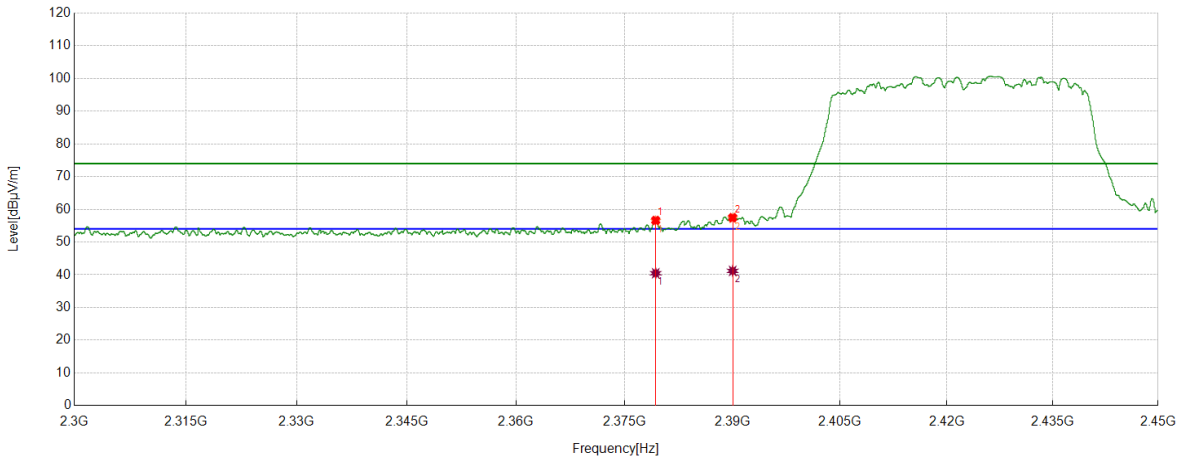
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2379.3037	46.33	10.29	56.62	74.00	17.38	Horizontal
2	2390.0000	47.11	10.35	57.46	74.00	16.54	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2379.3037	30.18	10.29	40.47	54.00	13.53	Horizontal
2	2390.0000	30.84	10.35	41.19	54.00	12.81	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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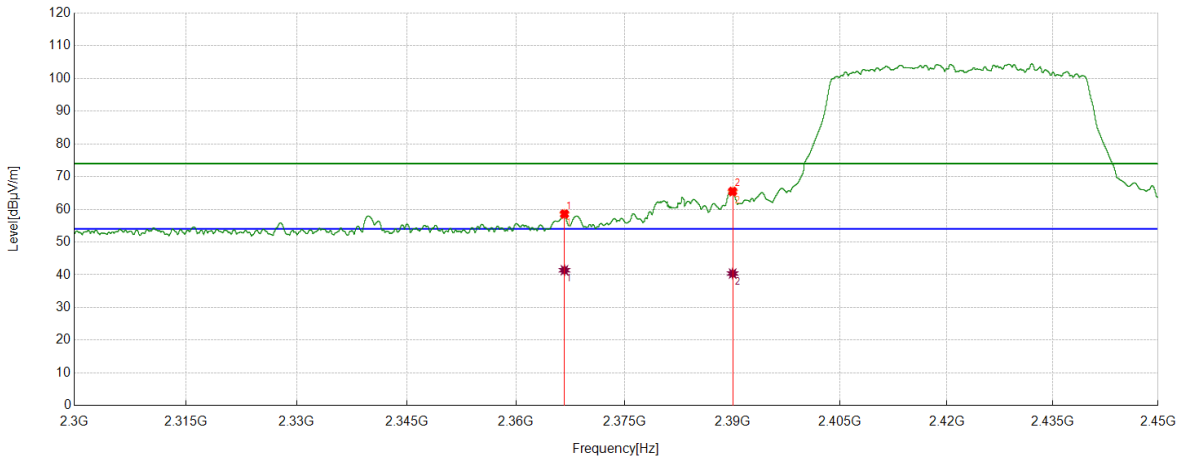
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2366.6833	48.53	10.05	58.58	74.00	15.42	Vertical
2	2390.0000	55.13	10.35	65.48	74.00	8.52	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2366.6833	31.34	10.05	41.39	54.00	12.61	Vertical
2	2390.0000	30.03	10.35	40.38	54.00	13.62	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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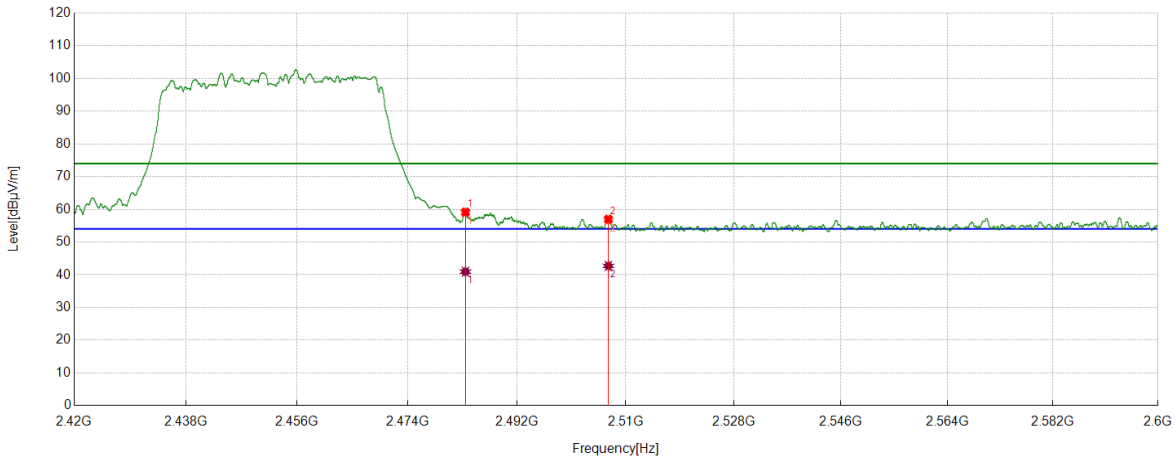
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	48.49	10.64	59.13	74.00	14.87	Horizontal
2	2507.1084	45.97	10.99	56.96	74.00	17.04	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.31	10.64	40.95	54.00	13.05	Horizontal
2	2507.1084	31.72	10.99	42.71	54.00	11.29	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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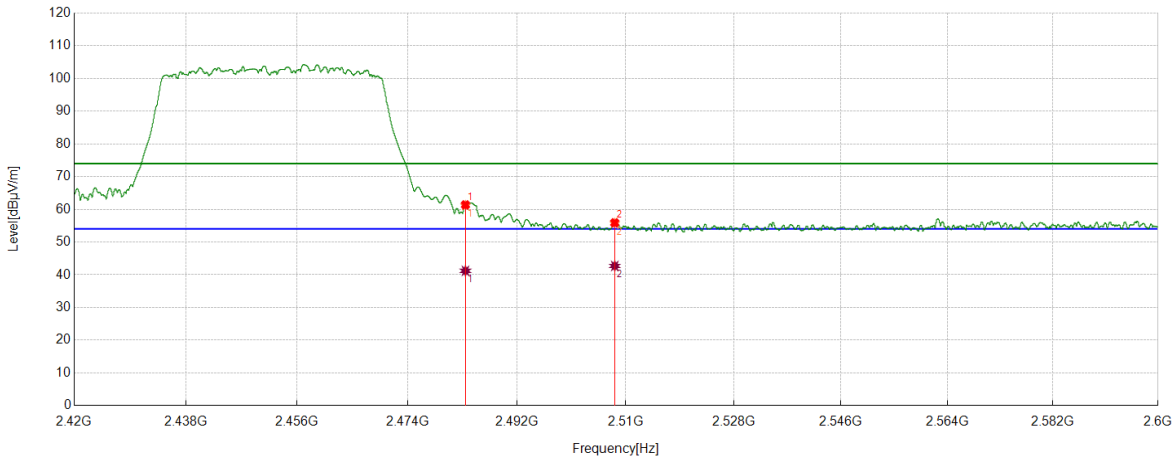
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	50.73	10.64	61.37	74.00	12.63	Horizontal
2	2508.166	44.85	11.04	55.89	74.00	18.11	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.56	10.64	41.20	54.00	12.80	Horizontal
2	2508.166	31.66	11.04	42.70	54.00	11.30	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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8.3. SPURIOUS EMISSIONS

Test Result Table:
I) For 1GHz~3GHz

Temperature	20.0℃	Relative Humidity	53.5%
Atmosphere Pressure	101.8kpa	Test Voltage	DC5V

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11G SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N HT20 MIMO	Antenna 1+2	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N HT40 MIMO	Antenna 1+2	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS

Remark:
1) For this product, it has five antennas, but only two antennas for M8822CU3 RF module. For this M8822CU3 RF module, only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only support SISO mode.
2) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.
3) Through pre-testing both antennas of test modes of 11B and 11G, but only the data if worse case is included in this test report.

II)For 3GHz~18GHz

Temperature	20.0℃	Relative Humidity	53.5%
Atmosphere Pressure	101.8kpa	Test Voltage	DC5V

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11G SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N HT20 MIMO	Antenna 1+2	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N HT40	Antenna 1+2	LCH	<Limit	PASS
		MCH	<Limit	PASS

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MIMO		HCH	<Limit	PASS

Remark:
1) For this product, it has five antennas, but only two antennas for M8822CU3 RF module. For this M8822CU3 RF module, only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only support SISO mode.
2) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.
3) Through pre-testing both antennas of test modes of 11B and 11G, but only the data if worse case is included in this test report.

III)For 18GHz~26.5GHz

Temperature	20.0℃	Relative Humidity	53.5%
Atmosphere Pressure	101.8kpa	Test Voltage	DC5V

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B	Antenna 1	MCH	<Limit	PASS

Remark:
1) Through pre-testing all antennas, test modes and test channels, but only the data of the worst case is included in this test report.

IV)For 30MHz~1GHz

Temperature	19.4℃	Relative Humidity	68.9%
Atmosphere Pressure	101kpa	Test Voltage	DC5V

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B	Antenna 1	MCH	<Limit	PASS

Remark:
1) Through pre-testing all antennas, test modes and test channels, but only the data of the worst case is included in this test report.

V)For 9KHz~30MHz

Temperature	19.4℃	Relative Humidity	68.9%
Atmosphere Pressure	101kpa	Test Voltage	DC5V

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B	Antenna 1	MCH	<Limit	PASS

Remark:
1) Through pre-testing all antennas, test modes and test channels, but only the data of the worst case is included in this test report.

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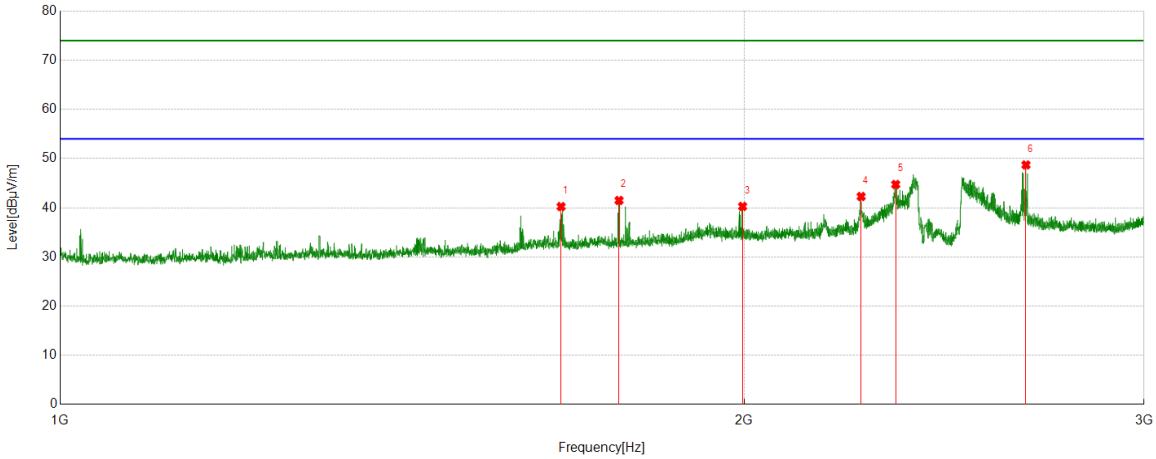
Part I: 1GHz~3GHz

HARMONICS AND SPURIOUS EMISSIONS

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1661.5827	58.54	-18.30	40.24	74.00	33.76	peak
2	1762.0953	59.56	-18.07	41.49	74.00	32.51	peak
3	1997.1246	56.58	-16.30	40.28	74.00	33.72	peak
4	2252.1565	57.29	-15.00	42.29	74.00	31.71	peak
5	2332.4166	59.69	-14.95	44.74	74.00	29.26	peak
6	2661.7077	61.94	-13.23	48.71	74.00	25.29	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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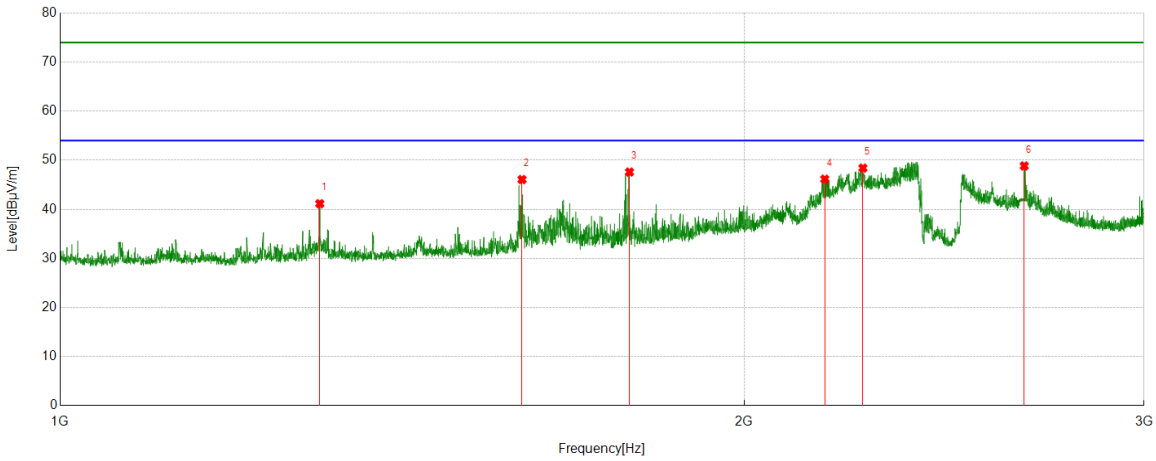
Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.0376	61.61	-20.46	41.15	74.00	32.85	peak
2	1597.0746	64.78	-18.71	46.07	74.00	27.93	peak
3	1780.8476	65.56	-17.96	47.60	74.00	26.40	peak
4	2170.6463	62.12	-15.97	46.15	74.00	27.85	peak
5	2256.157	63.52	-15.11	48.41	74.00	25.59	peak
6	2656.9571	62.06	-13.22	48.84	74.00	25.16	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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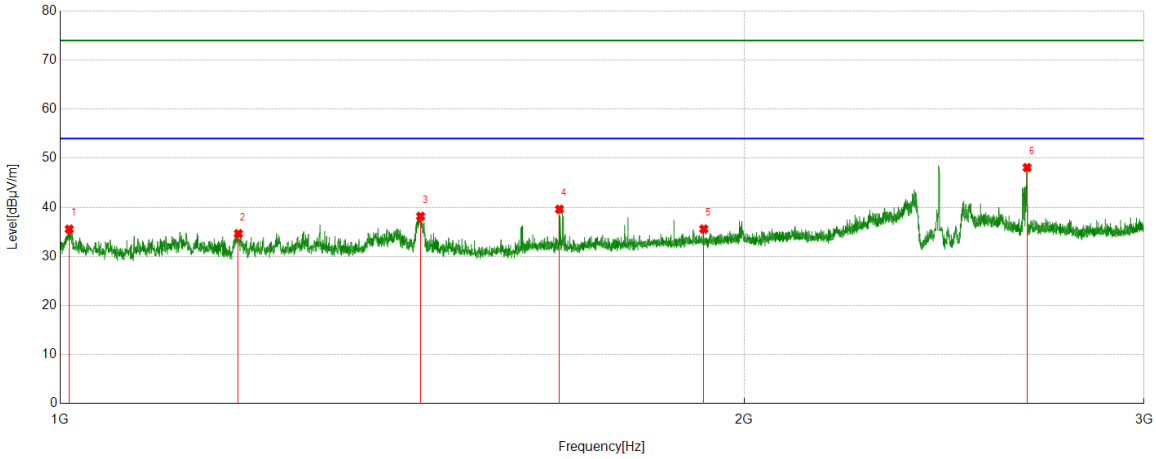
Test Mode	Channel	Polarization	Verdict
11B	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1009.2512	57.26	-21.70	35.56	74.00	38.44	peak
2	1198.0248	56.60	-21.96	34.64	74.00	39.36	peak
3	1441.0551	57.91	-19.73	38.18	74.00	35.82	peak
4	1658.8324	57.95	-18.33	39.62	74.00	34.38	peak
5	1920.115	52.61	-17.03	35.58	74.00	38.42	peak
6	2664.7081	61.34	-13.24	48.10	74.00	25.90	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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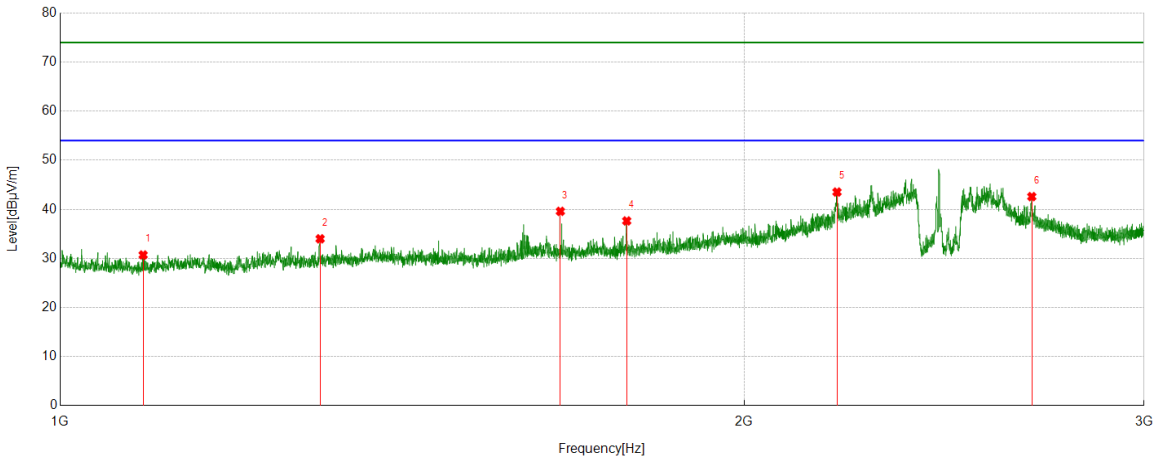
Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1087.761	52.36	-21.66	30.70	74.00	43.30	peak
2	1301.5377	54.45	-20.46	33.99	74.00	40.01	peak
3	1660.3325	57.91	-18.32	39.59	74.00	34.41	peak
4	1775.847	55.67	-18.03	37.64	74.00	36.36	peak
5	2197.6497	59.47	-15.95	43.52	74.00	30.48	peak
6	2677.4597	55.58	-12.99	42.59	74.00	31.41	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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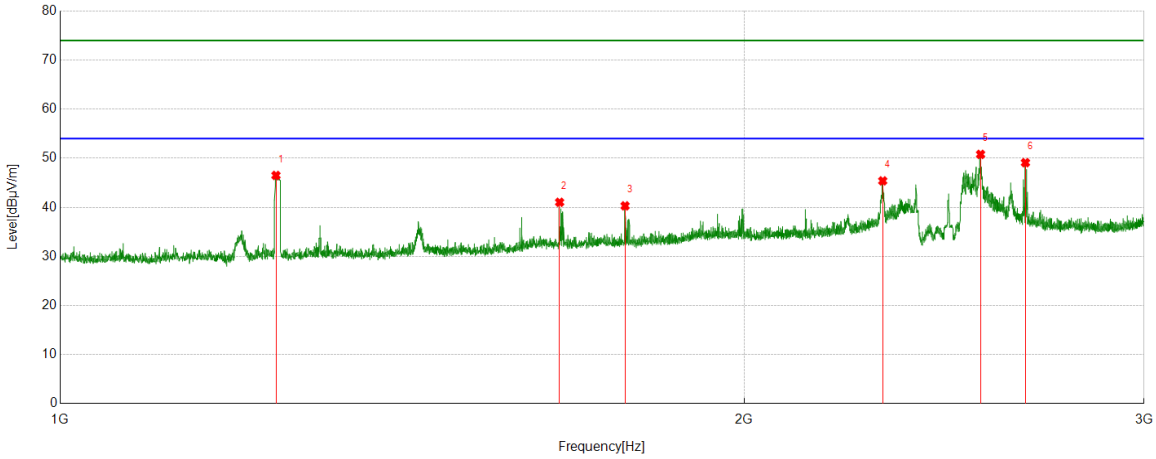
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1244.5306	67.42	-20.92	46.50	74.00	27.50	peak
2	1659.0824	59.36	-18.33	41.03	74.00	32.97	peak
3	1772.8466	58.37	-18.07	40.30	74.00	33.70	peak
4	2301.9127	60.84	-15.45	45.39	74.00	28.61	peak
5	2541.9427	64.39	-13.60	50.79	74.00	23.21	peak
6	2660.2075	62.33	-13.23	49.10	74.00	24.90	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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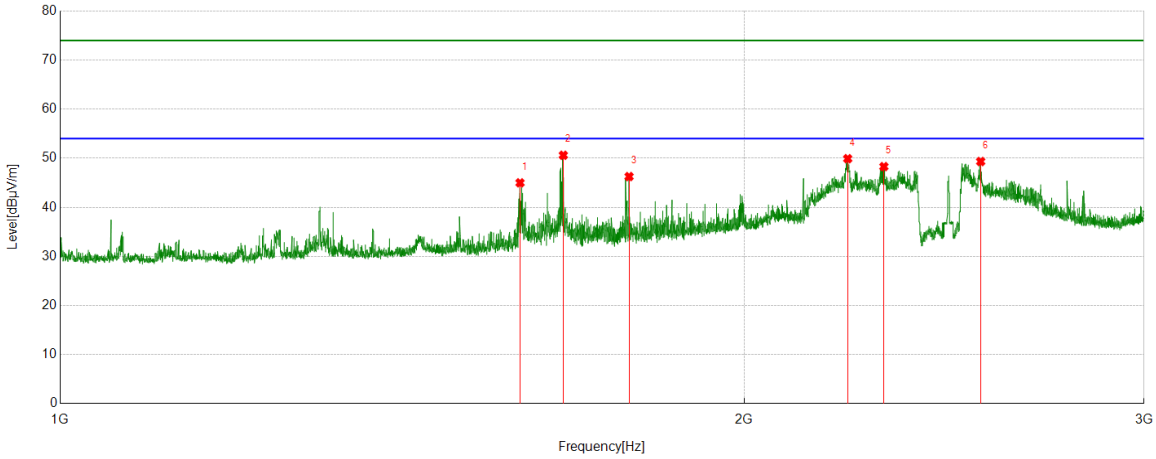
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1593.8242	63.70	-18.71	44.99	74.00	29.01	peak
2	1665.3332	68.82	-18.21	50.61	74.00	23.39	peak
3	1780.0975	64.24	-17.97	46.27	74.00	27.73	peak
4	2221.6527	65.23	-15.32	49.91	74.00	24.09	peak
5	2304.6631	63.78	-15.48	48.30	74.00	25.70	peak
6	2542.1928	62.94	-13.61	49.33	74.00	24.67	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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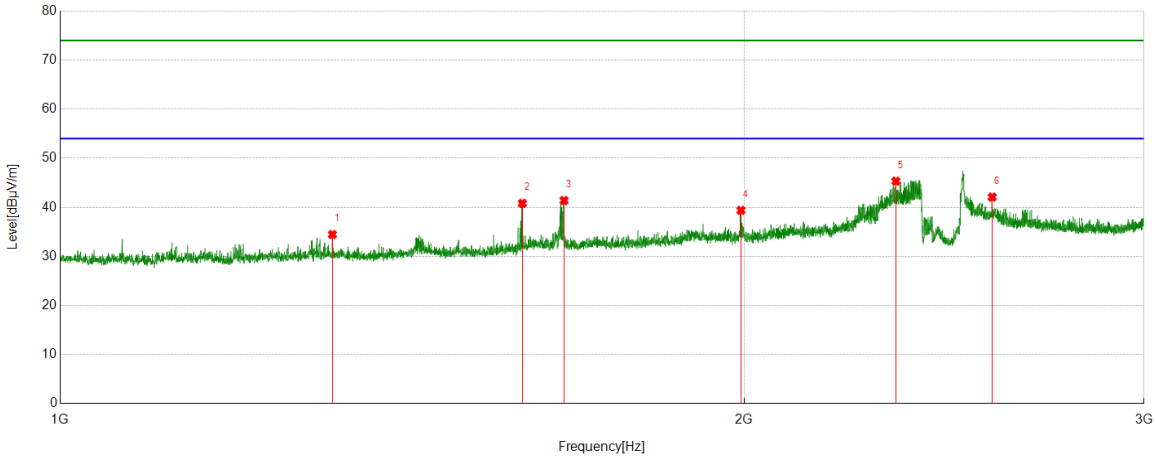
Test Mode	Channel	Polarization	Verdict
11G	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1317.7897	55.10	-20.64	34.46	74.00	39.54	peak
2	1597.5747	59.52	-18.71	40.81	74.00	33.19	peak
3	1666.5833	59.59	-18.19	41.40	74.00	32.60	peak
4	1993.8742	55.71	-16.32	39.39	74.00	34.61	peak
5	2332.9166	60.26	-14.93	45.33	74.00	28.67	peak
6	2572.1965	55.56	-13.47	42.09	74.00	31.91	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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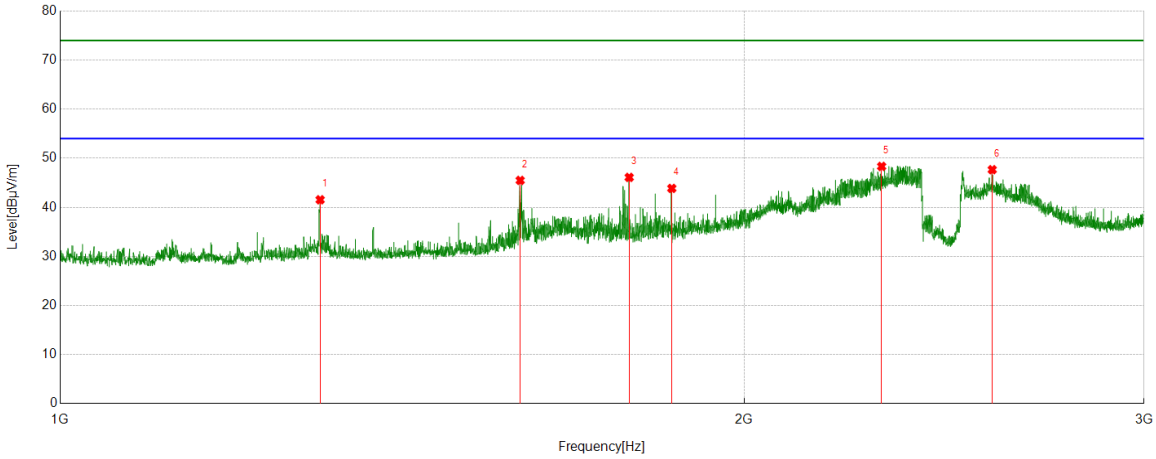
Test Mode	Channel	Polarization	Verdict
11G	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.5377	62.00	-20.46	41.54	74.00	32.46	peak
2	1594.0743	64.19	-18.70	45.49	74.00	28.51	peak
3	1780.3475	64.07	-17.97	46.10	74.00	27.90	peak
4	1858.8574	61.15	-17.29	43.86	74.00	30.14	peak
5	2299.4124	63.76	-15.42	48.34	74.00	25.66	peak
6	2572.1965	61.14	-13.47	47.67	74.00	26.33	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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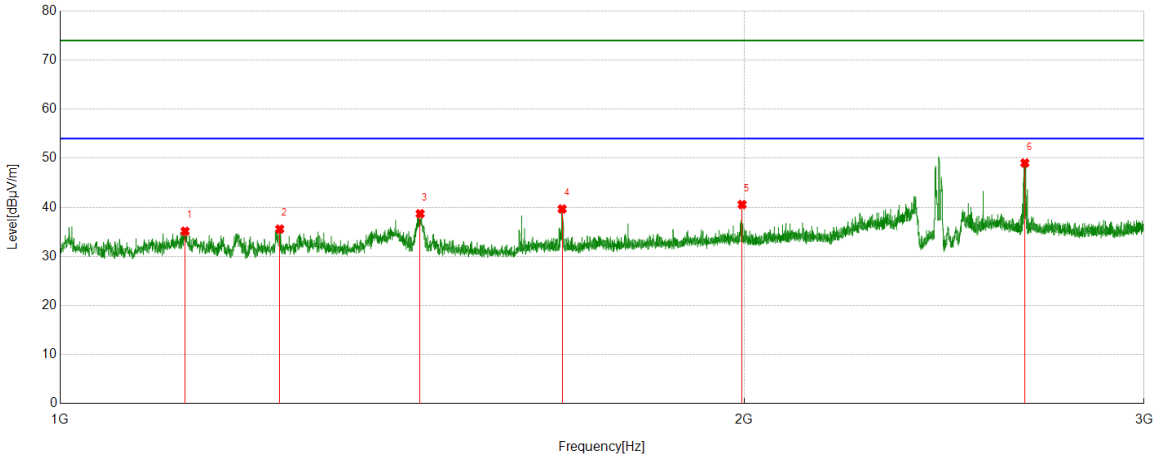
Test Mode	Channel	Polarization	Verdict
11G	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1135.0169	56.58	-21.45	35.13	74.00	38.87	peak
2	1249.2812	56.44	-20.87	35.57	74.00	38.43	peak
3	1440.305	58.45	-19.75	38.70	74.00	35.30	peak
4	1663.3329	57.92	-18.26	39.66	74.00	34.34	peak
5	1996.1245	56.88	-16.31	40.57	74.00	33.43	peak
6	2658.7073	62.26	-13.23	49.03	74.00	24.97	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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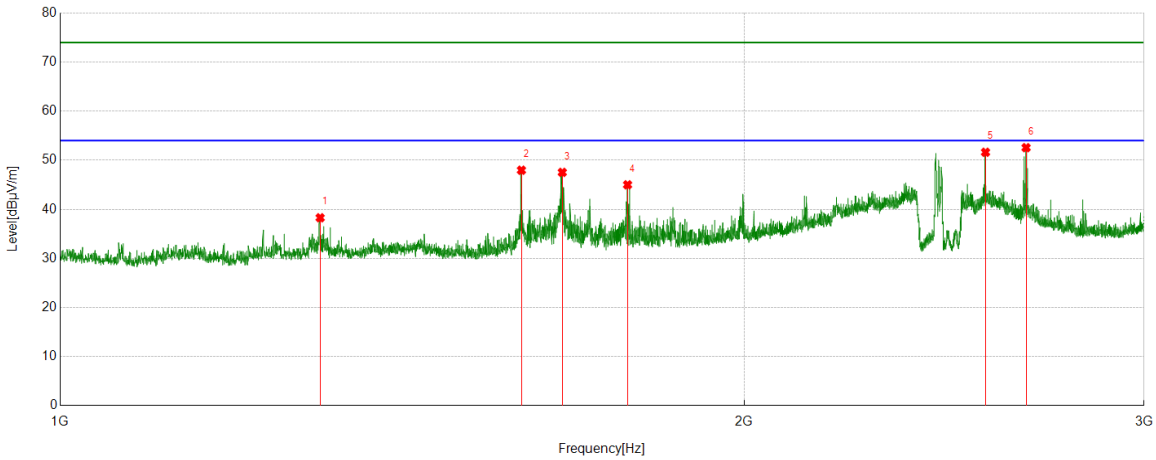
Test Mode	Channel	Polarization	Verdict
11G	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.5377	58.74	-20.46	38.28	74.00	35.72	peak
2	1596.0745	66.67	-18.70	47.97	74.00	26.03	peak
3	1663.5829	65.78	-18.25	47.53	74.00	26.47	peak
4	1777.3472	63.01	-18.01	45.00	74.00	29.00	peak
5	2554.6943	65.42	-13.79	51.63	74.00	22.37	peak
6	2661.9577	65.79	-13.23	52.56	74.00	21.44	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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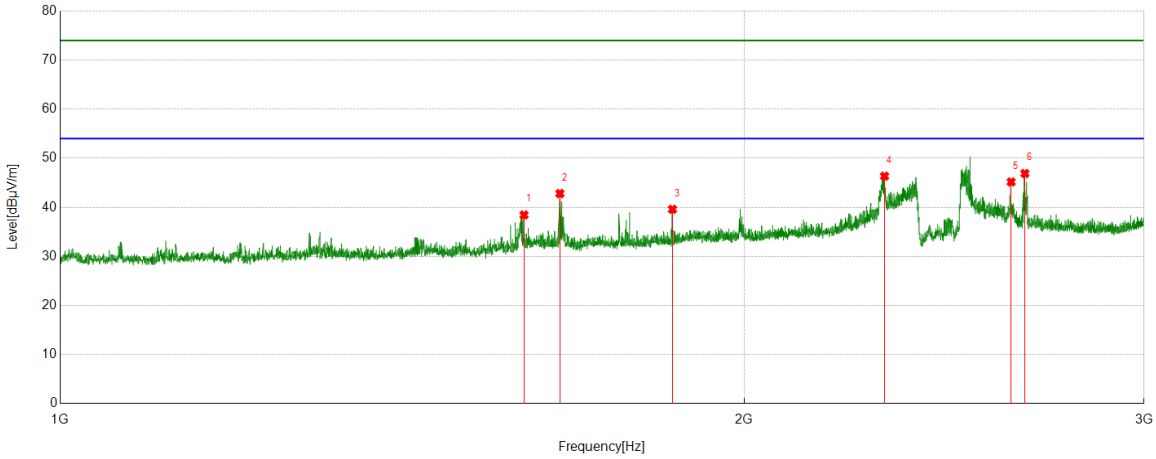
Test Mode	Channel	Polarization	Verdict
11G	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1600.325	57.17	-18.72	38.45	74.00	35.55	peak
2	1659.5824	61.14	-18.33	42.81	74.00	31.19	peak
3	1860.1075	56.89	-17.29	39.60	74.00	34.40	peak
4	2306.1633	61.83	-15.49	46.34	74.00	27.66	peak
5	2621.9527	58.38	-13.21	45.17	74.00	28.83	peak
6	2658.7073	60.13	-13.23	46.90	74.00	27.10	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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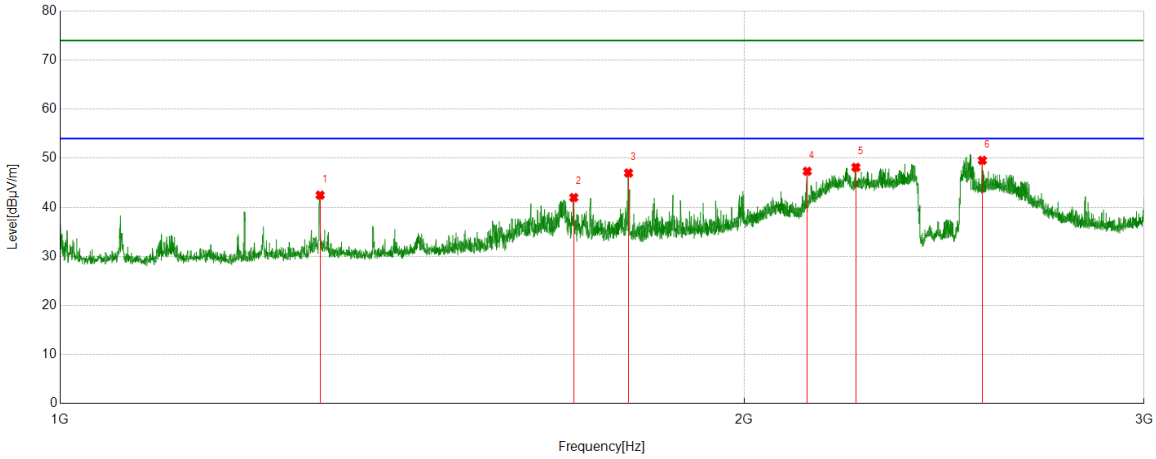
Test Mode	Channel	Polarization	Verdict
11G	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.5377	62.94	-20.46	42.48	74.00	31.52	peak
2	1683.0854	60.08	-18.09	41.99	74.00	32.01	peak
3	1779.0974	64.98	-17.99	46.99	74.00	27.01	peak
4	2132.3915	63.13	-15.79	47.34	74.00	26.66	peak
5	2240.155	63.21	-15.06	48.15	74.00	25.85	peak
6	2546.4433	63.28	-13.72	49.56	74.00	24.44	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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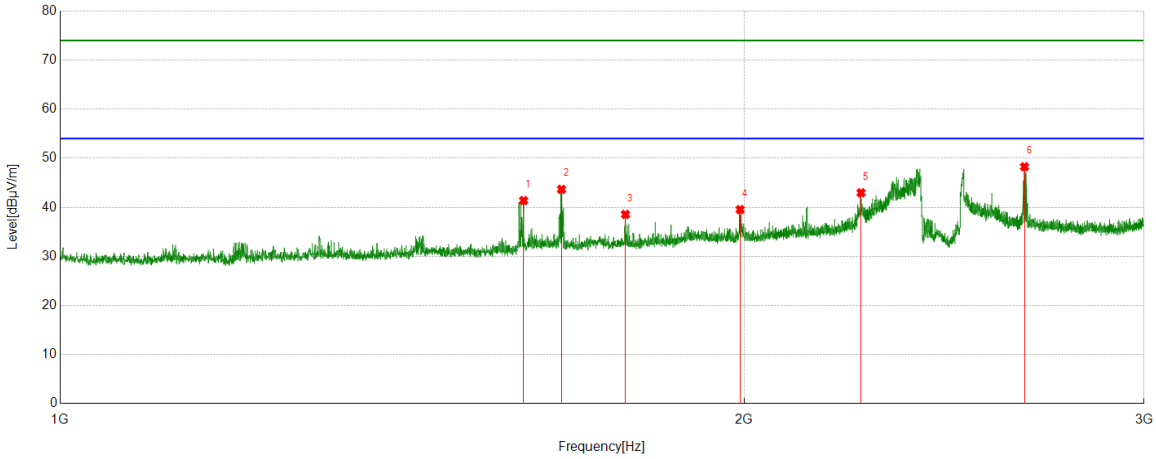
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1599.5749	60.09	-18.71	41.38	74.00	32.62	peak
2	1662.3328	61.95	-18.28	43.67	74.00	30.33	peak
3	1773.5967	56.63	-18.07	38.56	74.00	35.44	peak
4	1992.124	55.88	-16.34	39.54	74.00	34.46	peak
5	2251.9065	57.97	-15.00	42.97	74.00	31.03	peak
6	2657.7072	61.49	-13.22	48.27	74.00	25.73	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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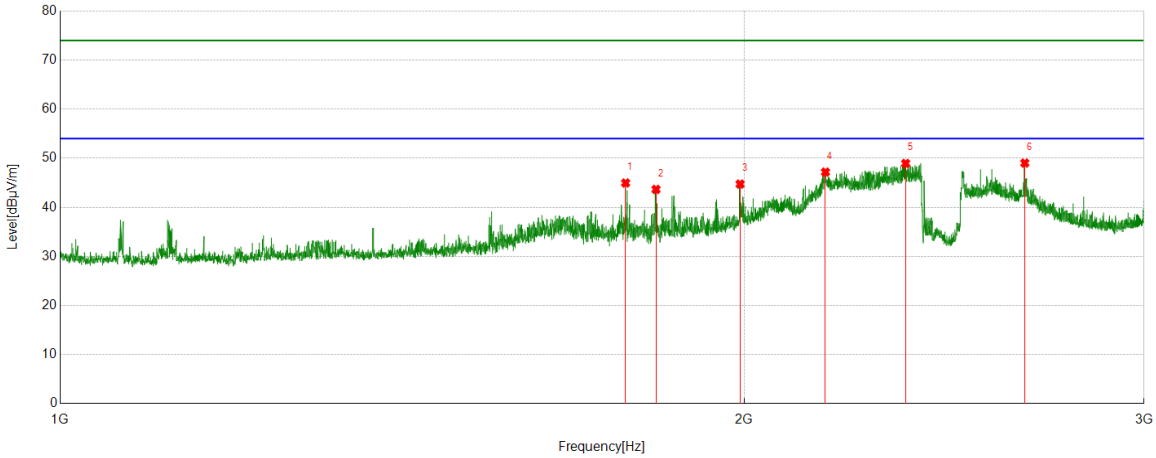
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1773.8467	63.03	-18.07	44.96	74.00	29.04	peak
2	1829.3537	60.98	-17.33	43.65	74.00	30.35	peak
3	1992.124	61.08	-16.34	44.74	74.00	29.26	peak
4	2172.1465	63.13	-15.95	47.18	74.00	26.82	peak
5	2356.1695	63.72	-14.78	48.94	74.00	25.06	peak
6	2658.4573	62.25	-13.23	49.02	74.00	24.98	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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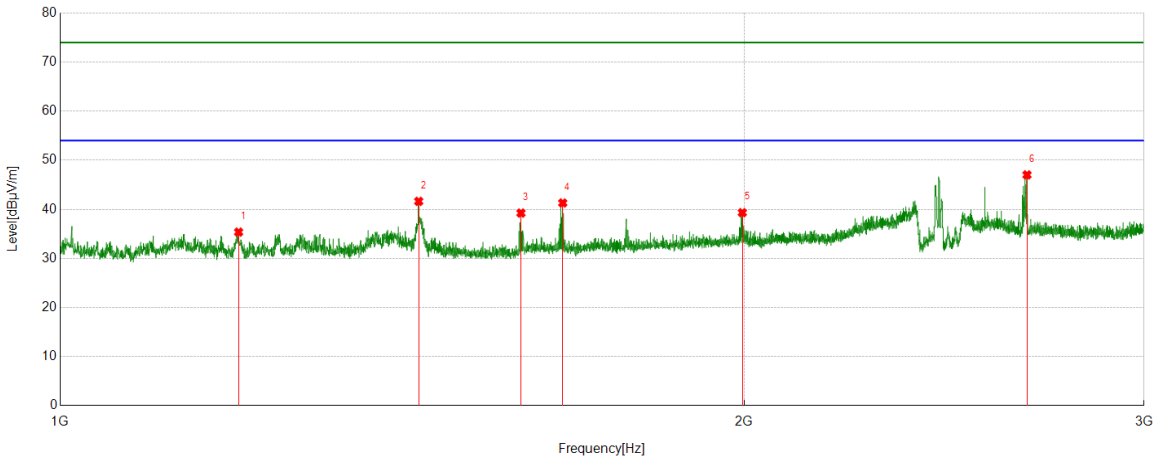
Test Mode	Channel	Polarization	Verdict
11N HT20	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1198.2748	57.33	-21.97	35.36	74.00	38.64	peak
2	1438.3048	61.42	-19.79	41.63	74.00	32.37	peak
3	1595.3244	57.94	-18.70	39.24	74.00	34.76	peak
4	1664.333	59.53	-18.23	41.30	74.00	32.70	peak
5	1996.6246	55.62	-16.30	39.32	74.00	34.68	peak
6	2664.4581	60.26	-13.24	47.02	74.00	26.98	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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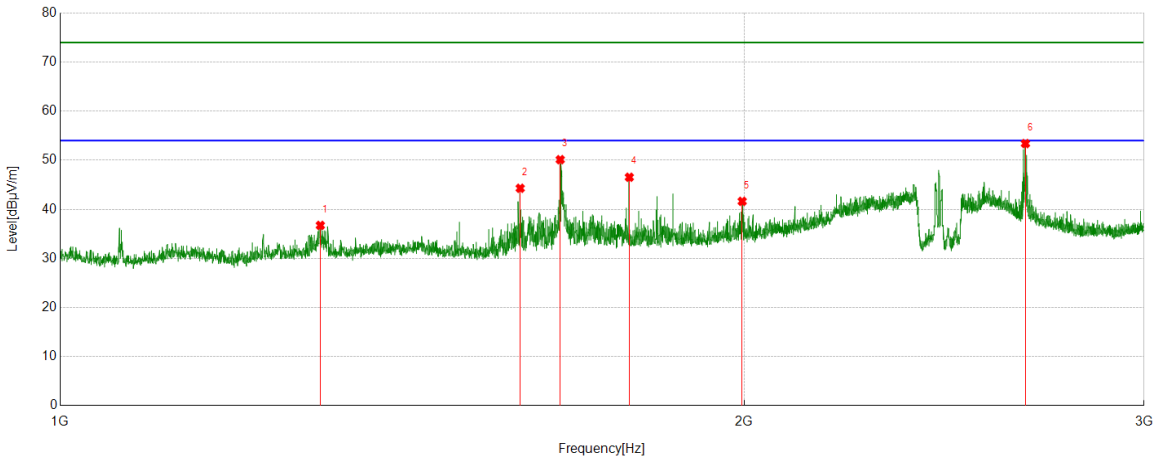
Test Mode	Channel	Polarization	Verdict
11N HT20	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.7877	57.19	-20.46	36.73	74.00	37.27	peak
2	1594.0743	62.99	-18.70	44.29	74.00	29.71	peak
3	1660.0825	68.45	-18.33	50.12	74.00	23.88	peak
4	1780.5976	64.51	-17.97	46.54	74.00	27.46	peak
5	1996.3745	57.94	-16.31	41.63	74.00	32.37	peak
6	2660.2075	66.63	-13.23	53.40	74.00	20.60	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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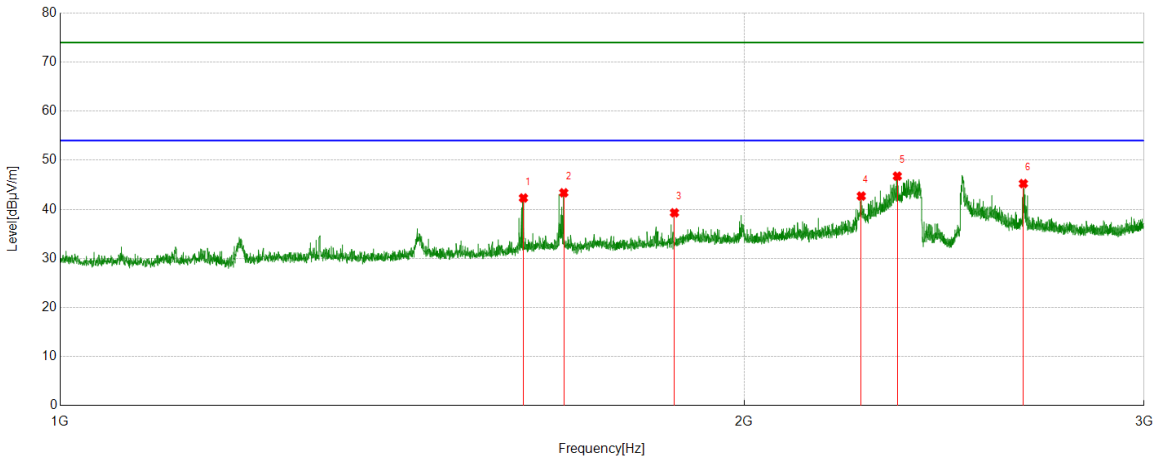
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1599.3249	61.02	-18.71	42.31	74.00	31.69	peak
2	1666.0833	61.57	-18.20	43.37	74.00	30.63	peak
3	1863.858	56.59	-17.29	39.30	74.00	34.70	peak
4	2252.4066	57.71	-15.01	42.70	74.00	31.30	peak
5	2336.167	61.60	-14.84	46.76	74.00	27.24	peak
6	2654.7068	58.45	-13.21	45.24	74.00	28.76	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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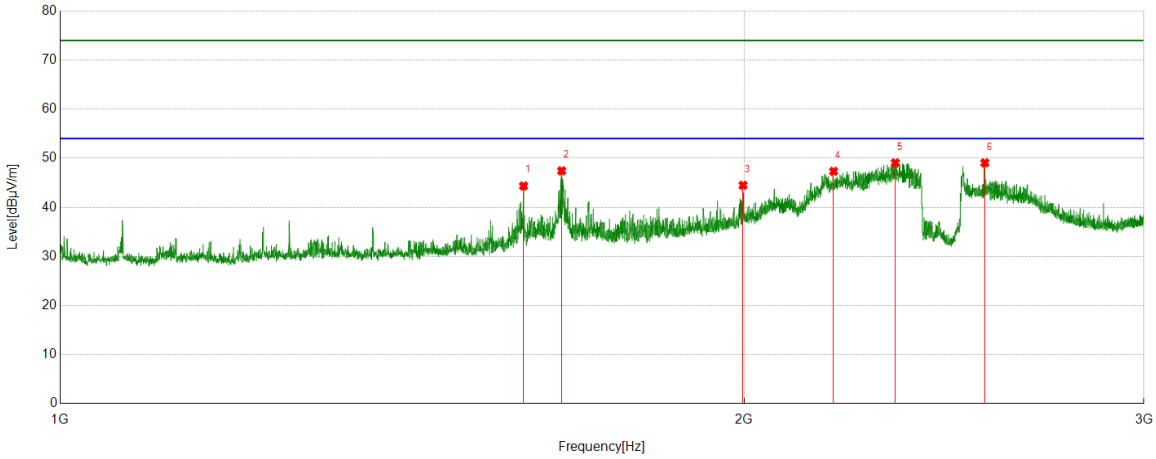
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1599.5749	63.06	-18.71	44.35	74.00	29.65	peak
2	1662.5828	65.70	-18.27	47.43	74.00	26.57	peak
3	1998.1248	60.78	-16.29	44.49	74.00	29.51	peak
4	2190.1488	63.24	-15.91	47.33	74.00	26.67	peak
5	2331.6665	64.03	-14.97	49.06	74.00	24.94	peak
6	2552.9441	62.87	-13.80	49.07	74.00	24.93	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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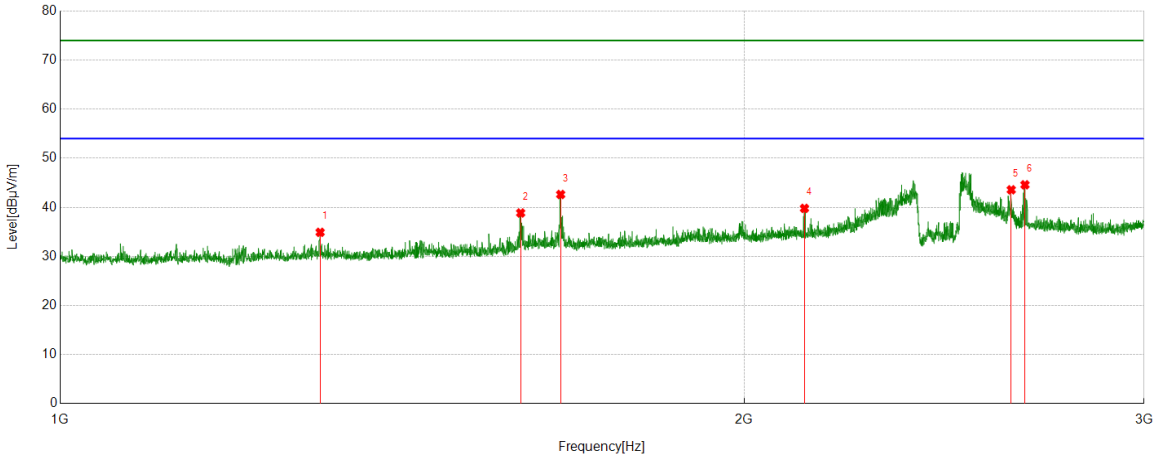
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.5377	55.37	-20.46	34.91	74.00	39.09	peak
2	1594.8244	57.55	-18.70	38.85	74.00	35.15	peak
3	1660.8326	60.93	-18.31	42.62	74.00	31.38	peak
4	2126.3908	55.64	-15.85	39.79	74.00	34.21	peak
5	2622.2028	56.78	-13.21	43.57	74.00	30.43	peak
6	2658.9574	57.81	-13.22	44.59	74.00	29.41	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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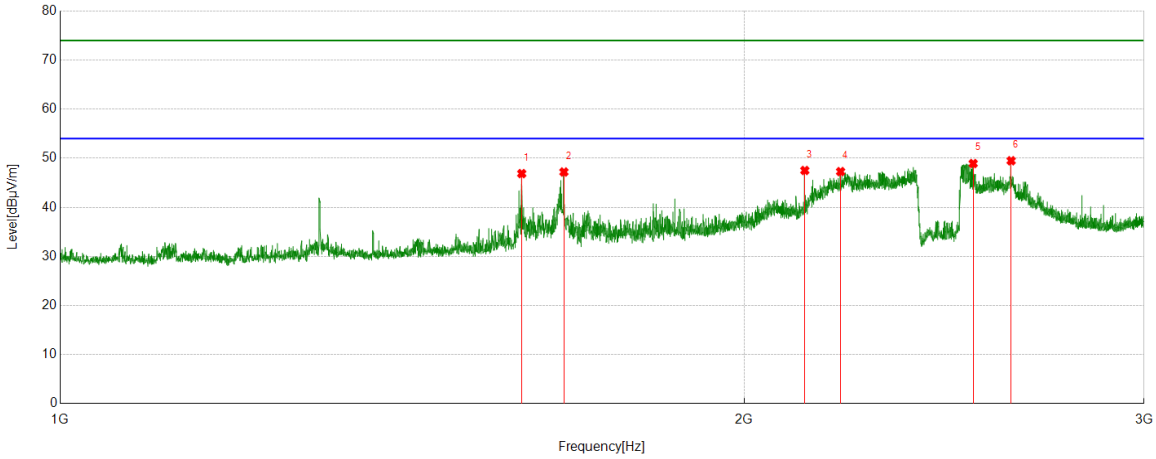
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1596.5746	65.57	-18.70	46.87	74.00	27.13	peak
2	1666.3333	65.39	-18.19	47.20	74.00	26.80	peak
3	2127.1409	63.36	-15.85	47.51	74.00	26.49	peak
4	2205.6507	63.09	-15.81	47.28	74.00	26.72	peak
5	2522.9404	62.62	-13.70	48.92	74.00	25.08	peak
6	2621.9527	62.70	-13.21	49.49	74.00	24.51	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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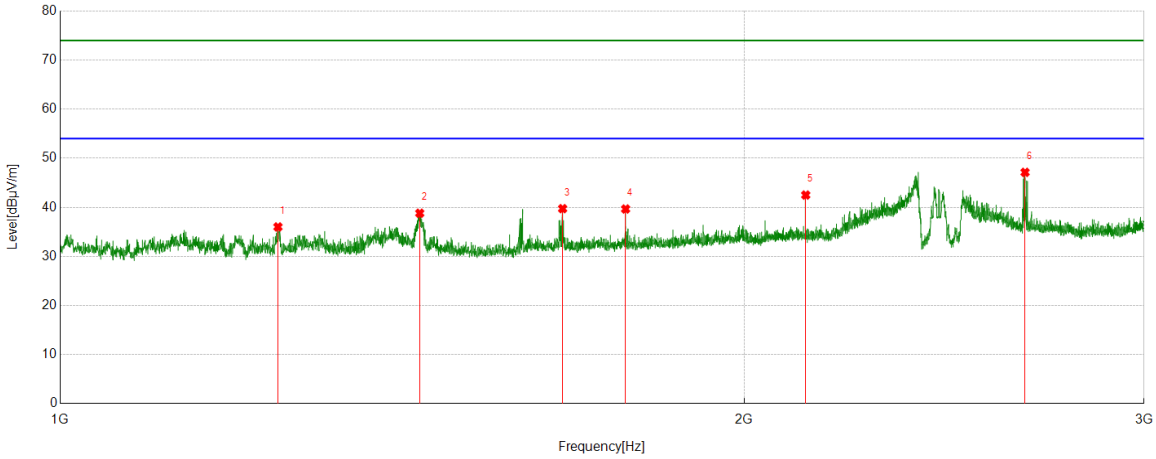
Test Mode	Channel	Polarization	Verdict
11N HT40	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1247.0309	56.90	-20.89	36.01	74.00	37.99	peak
2	1439.805	58.55	-19.75	38.80	74.00	35.20	peak
3	1664.083	57.97	-18.24	39.73	74.00	34.27	peak
4	1773.8467	57.73	-18.07	39.66	74.00	34.34	peak
5	2129.1411	58.35	-15.85	42.50	74.00	31.50	peak
6	2659.2074	60.35	-13.22	47.13	74.00	26.87	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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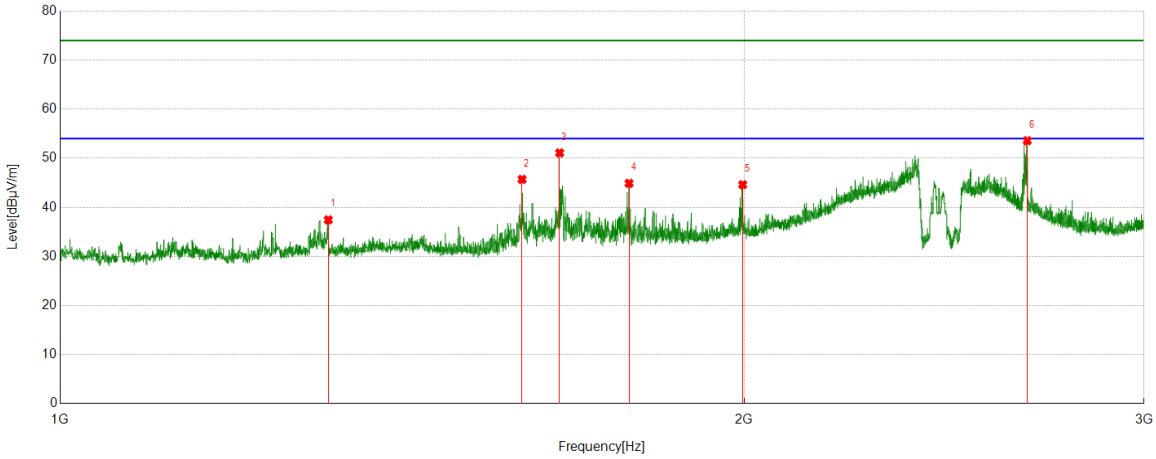
Test Mode	Channel	Polarization	Verdict
11N HT40	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1312.289	57.95	-20.50	37.45	74.00	36.55	peak
2	1597.0746	64.40	-18.71	45.69	74.00	28.31	peak
3	1659.0824	69.42	-18.33	51.09	74.00	22.91	peak
4	1780.0975	62.86	-17.97	44.89	74.00	29.11	peak
5	1997.3747	60.92	-16.30	44.62	74.00	29.38	peak
6	2665.2082	66.82	-13.24	53.58	74.00	20.42	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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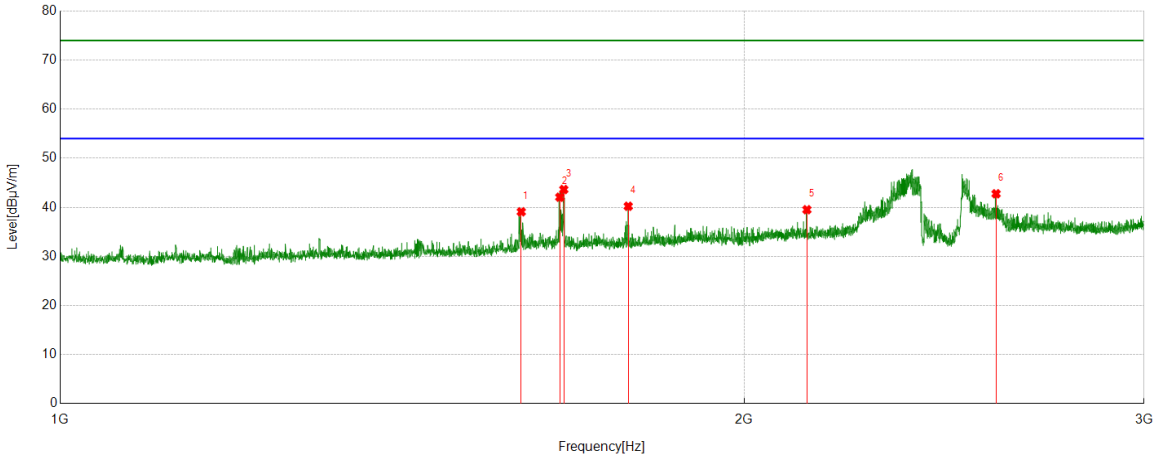
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1595.8245	57.80	-18.71	39.09	74.00	34.91	peak
2	1659.3324	60.39	-18.33	42.06	74.00	31.94	peak
3	1666.0833	61.83	-18.20	43.63	74.00	30.37	peak
4	1778.5973	58.21	-17.99	40.22	74.00	33.78	peak
5	2131.6415	55.33	-15.81	39.52	74.00	34.48	peak
6	2582.1978	56.23	-13.47	42.76	74.00	31.24	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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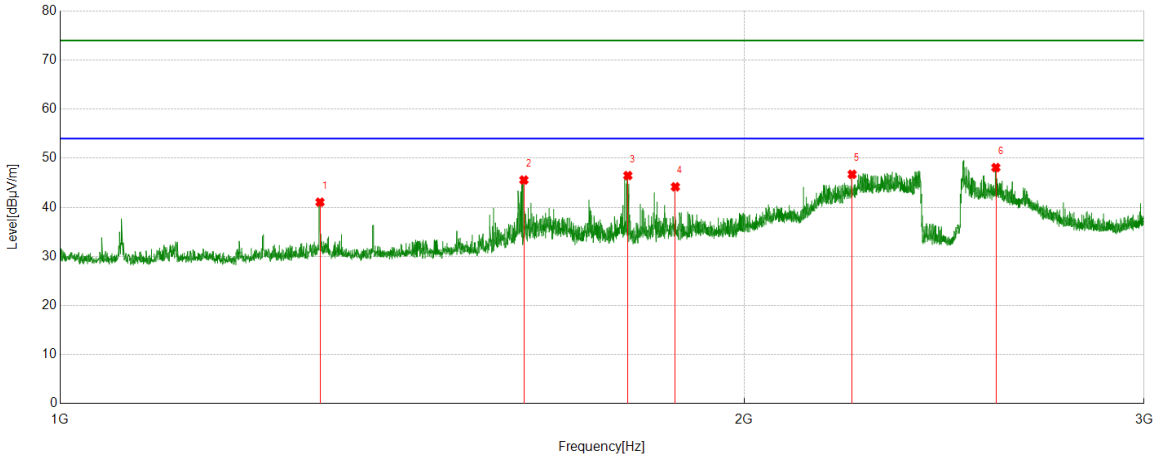
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1301.2877	61.51	-20.46	41.05	74.00	32.95	peak
2	1600.075	64.27	-18.71	45.56	74.00	28.44	peak
3	1777.8472	64.47	-18.00	46.47	74.00	27.53	peak
4	1865.6082	61.47	-17.29	44.18	74.00	29.82	peak
5	2231.654	61.98	-15.26	46.72	74.00	27.28	peak
6	2581.6977	61.57	-13.47	48.10	74.00	25.90	peak

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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