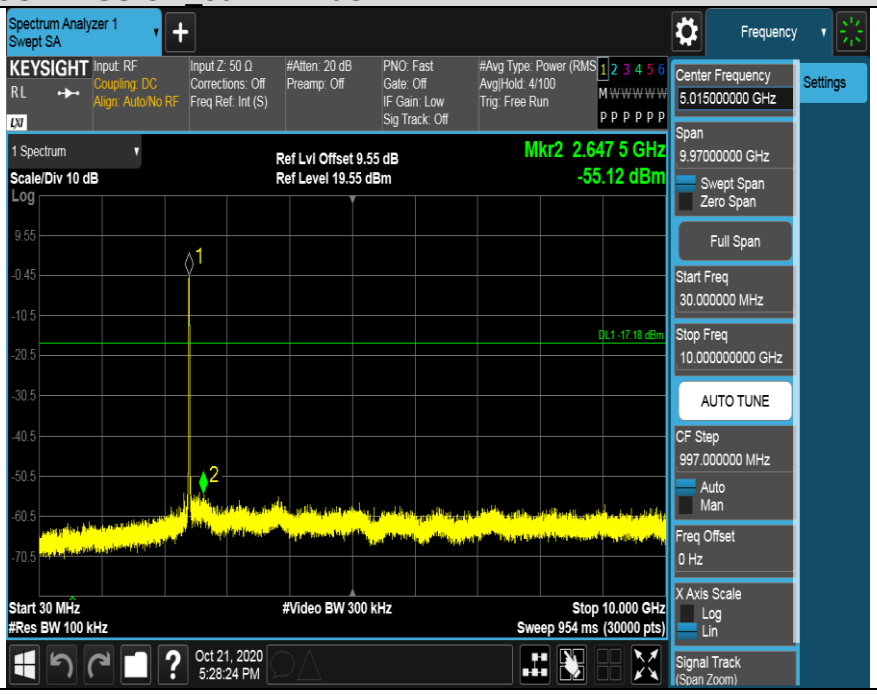
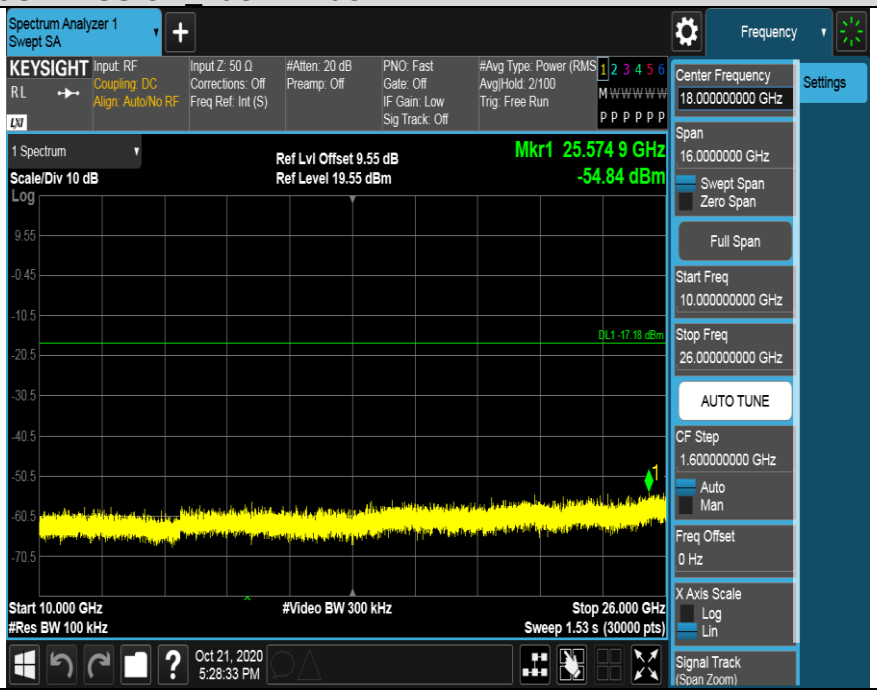
Puw test Plot

LCH SPURIOUS EMISSION_30MHz~10GHz



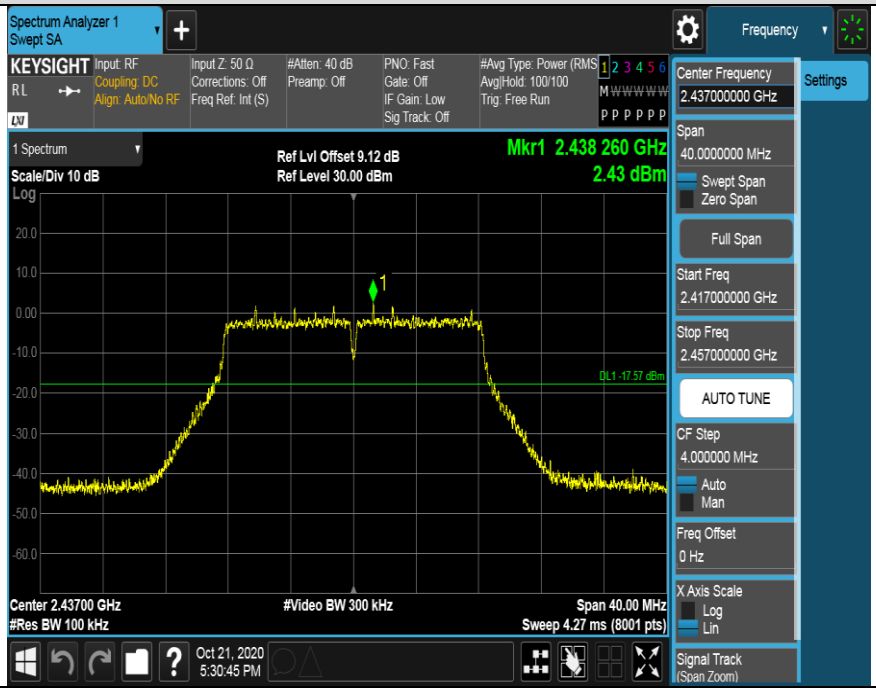
LCH SPURIOUS EMISSION_10GHz~26GHz



Test Mode	Channel	Verdict
11G	MCH	PASS

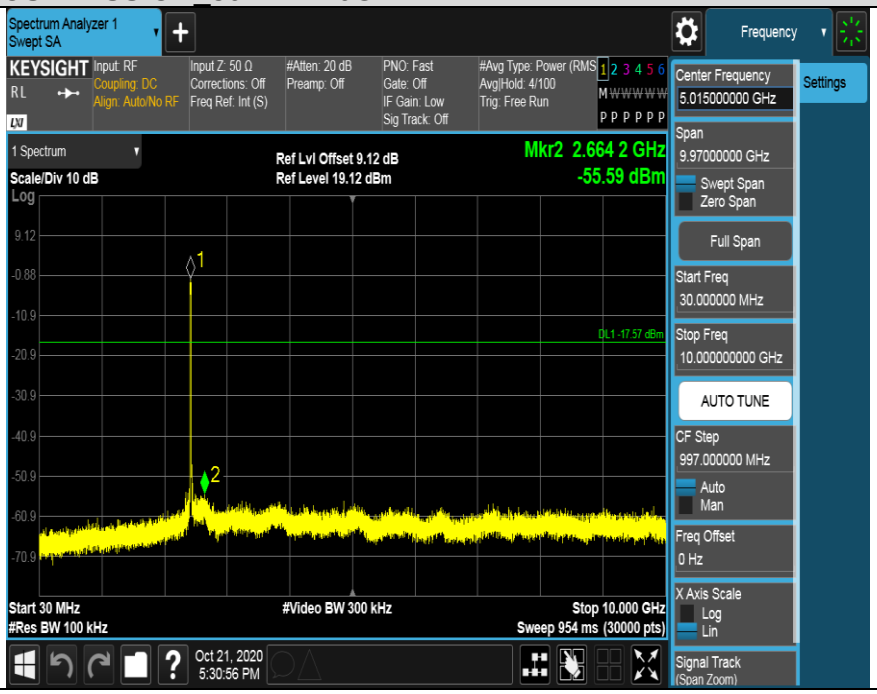
Pref test Plot

MCH SPURIOUS EMISSION

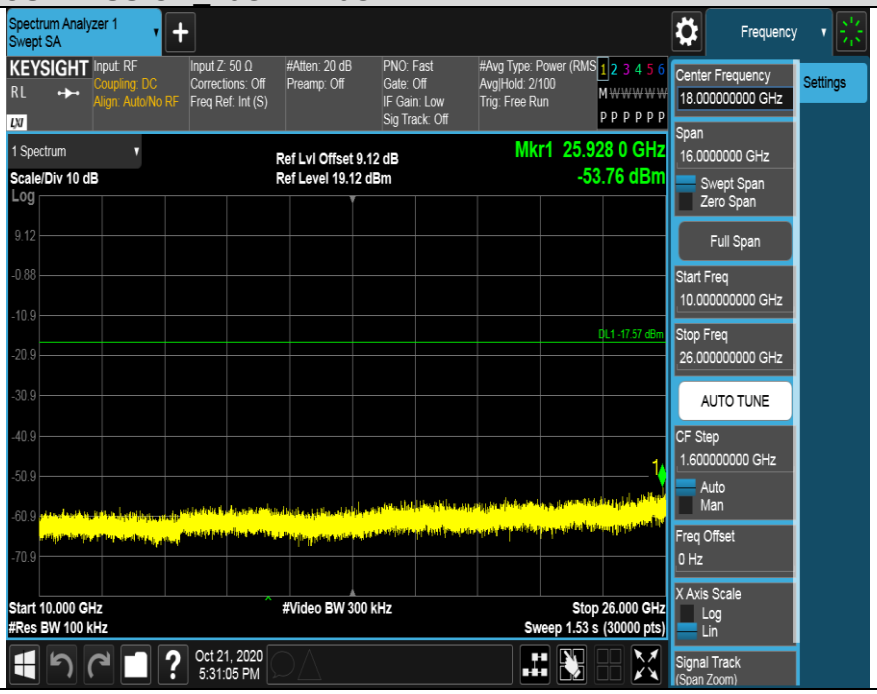


Puw test Plot

MCH SPURIOUS EMISSION_30MHz~10GHz



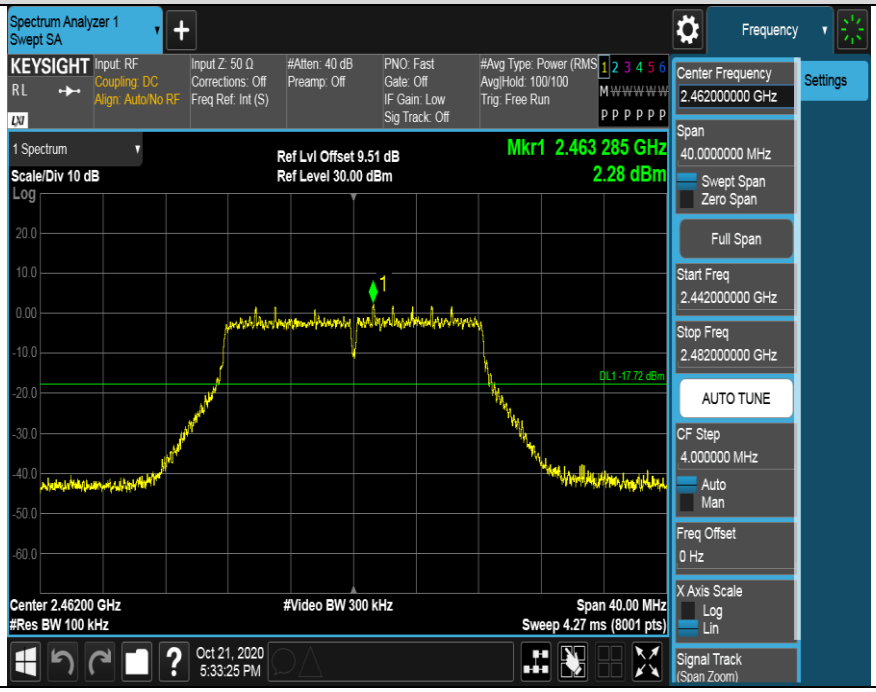
MCH SPURIOUS EMISSION_10GHz~26GHz



Test Mode	Channel	Verdict
11G	HCH	PASS

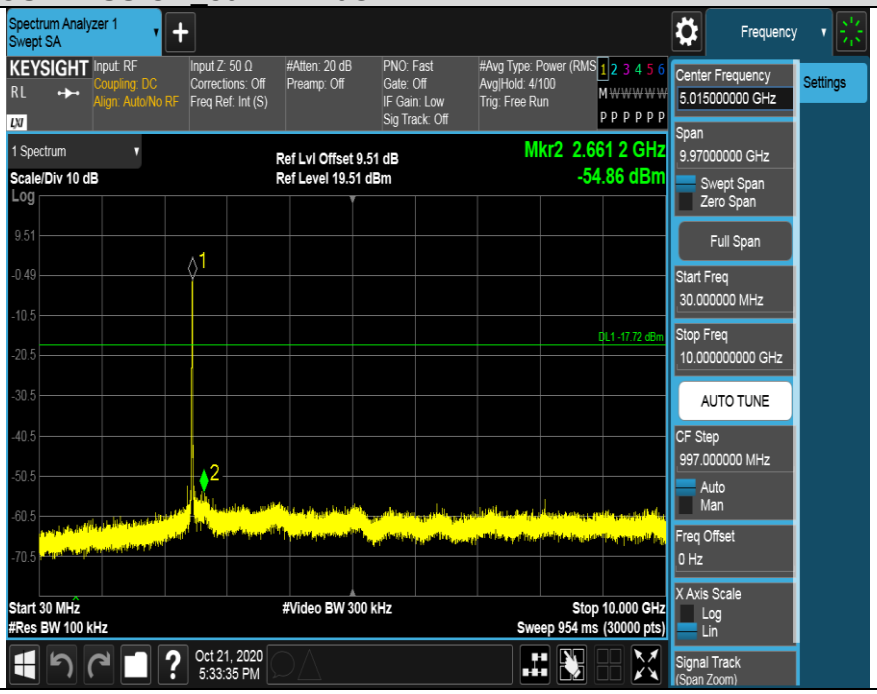
Pref test Plot

HCH SPURIOUS EMISSION

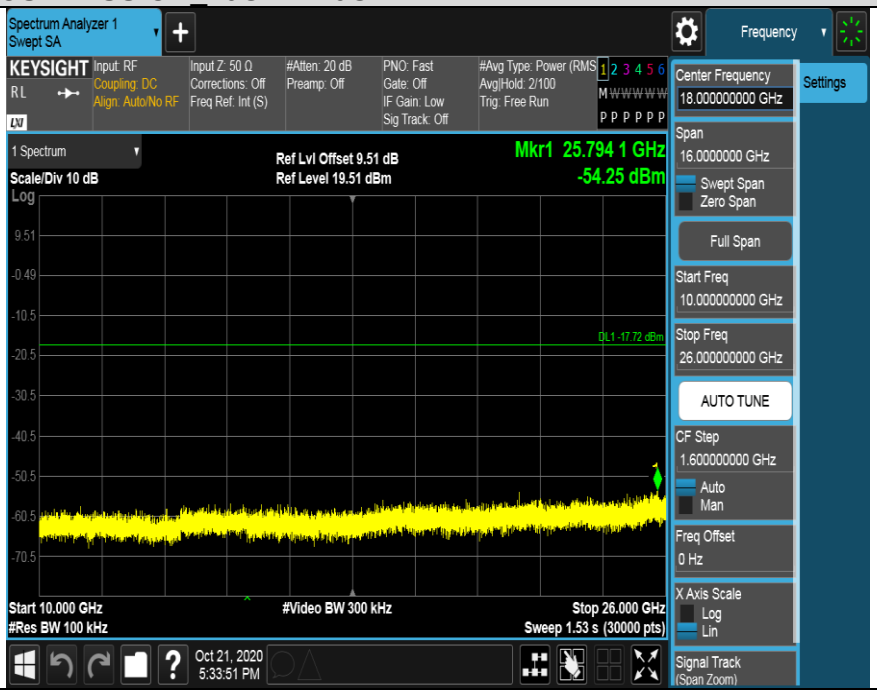


Puw test Plot

HCH SPURIOUS EMISSION_30MHz~10GHz

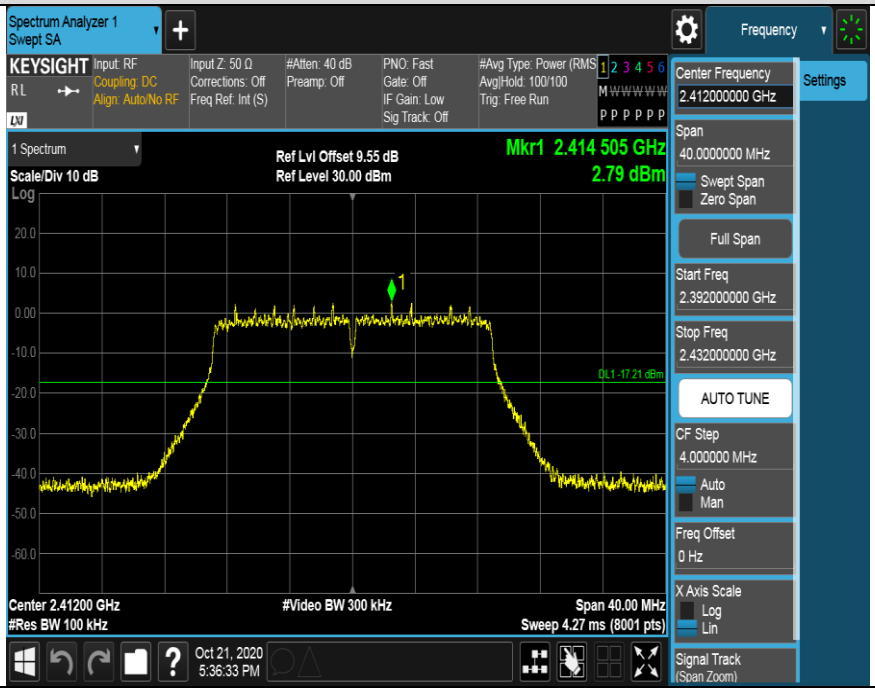


HCH SPURIOUS EMISSION_10GHz~26GHz



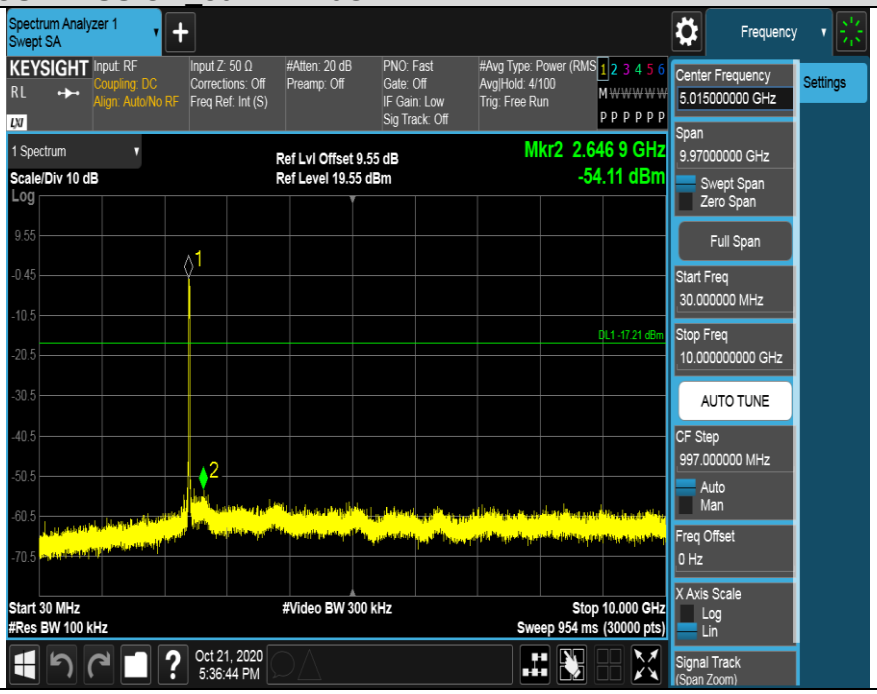
Test Mode	Channel	Verdict
11N HT20	LCH	PASS

Pref test Plot

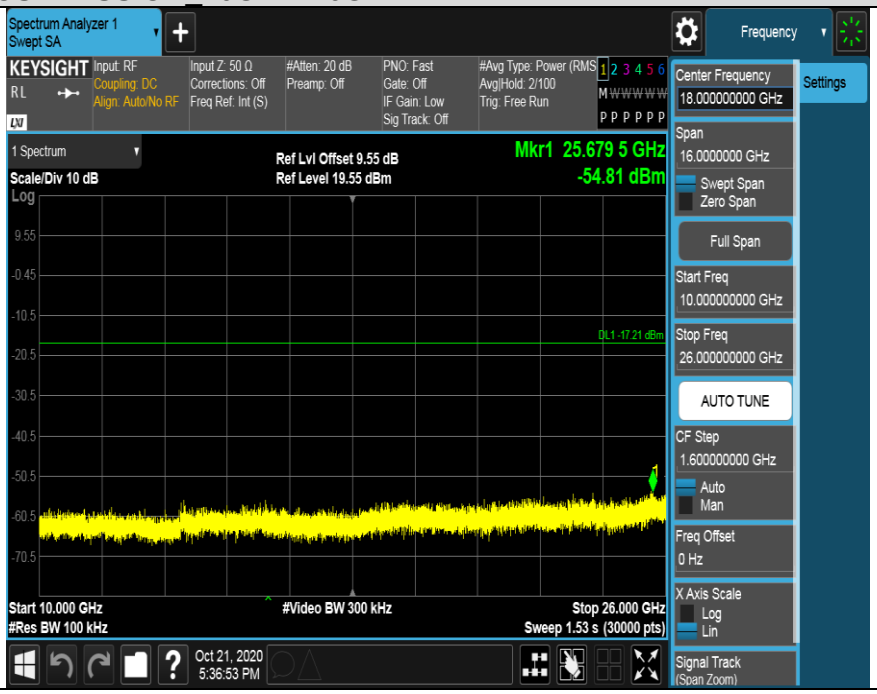
LCH SPURIOUS EMISSION


Puw test Plot

LCH SPURIOUS EMISSION_30MHz~10GHz



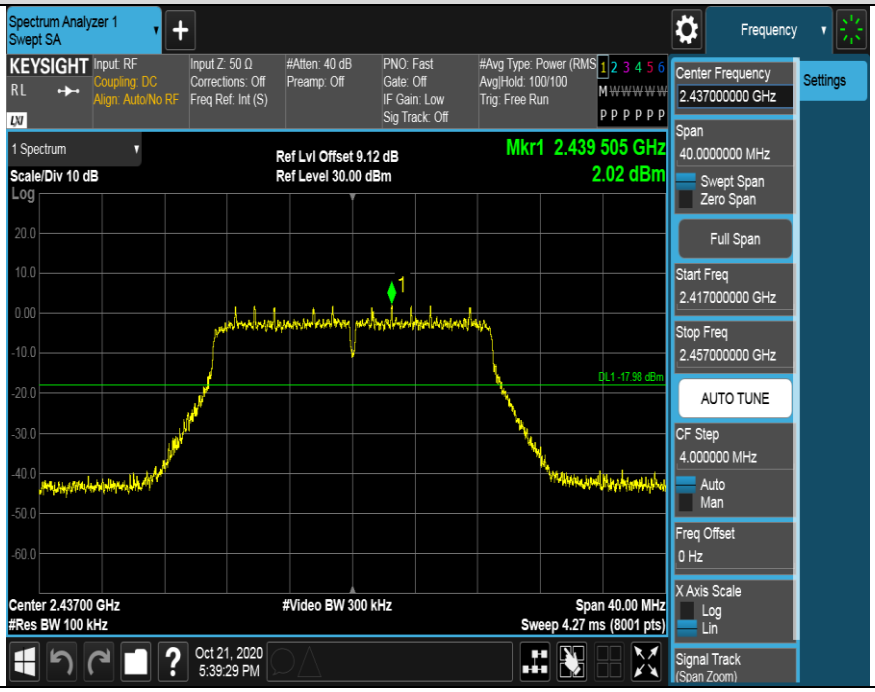
LCH SPURIOUS EMISSION_10GHz~26GHz



Test Mode	Channel	Verdict
11N HT20	MCH	PASS

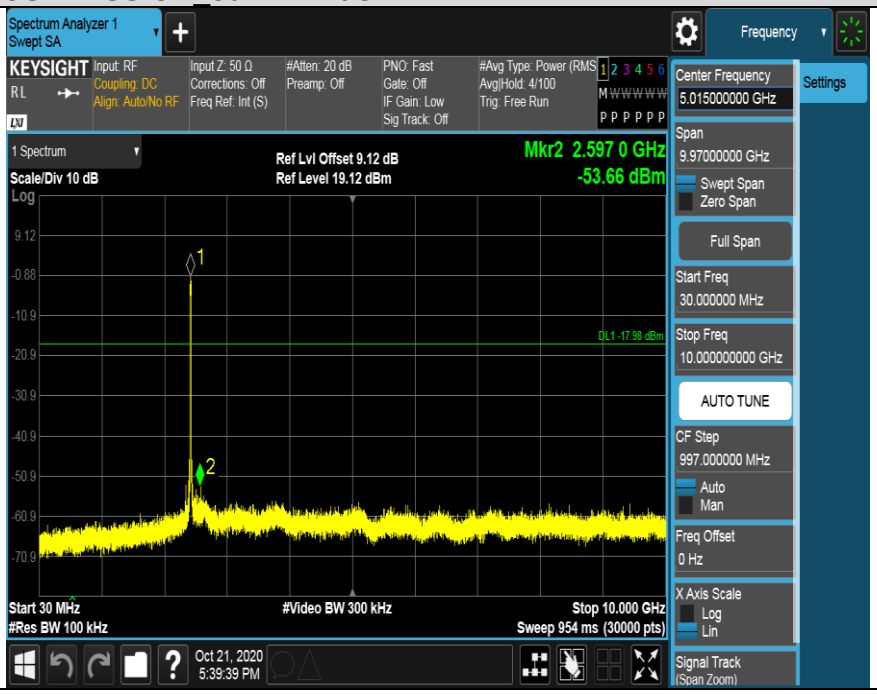
Pref test Plot

MCH SPURIOUS EMISSION

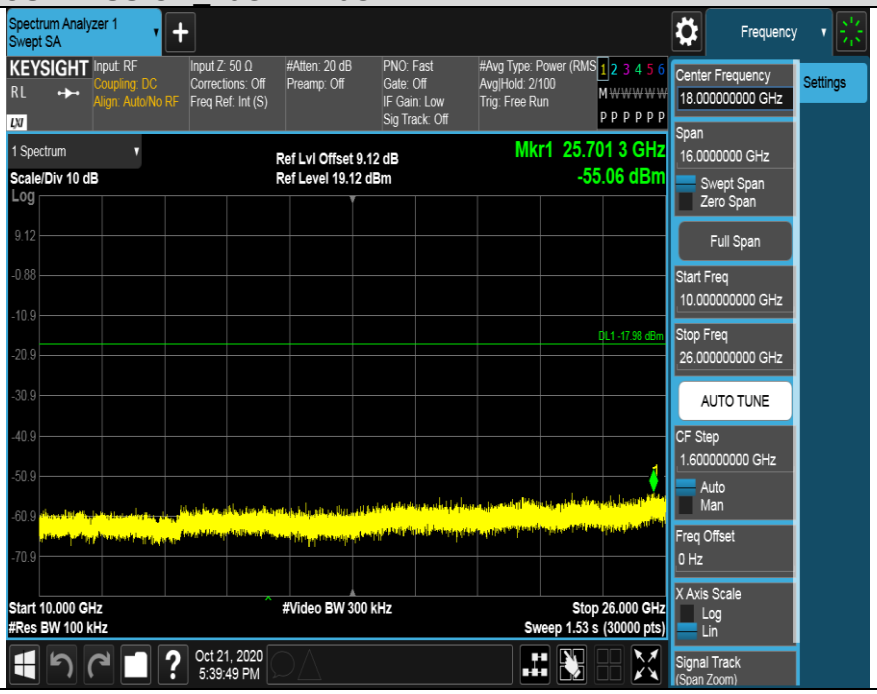


Puw test Plot

MCH SPURIOUS EMISSION_30MHz~10GHz



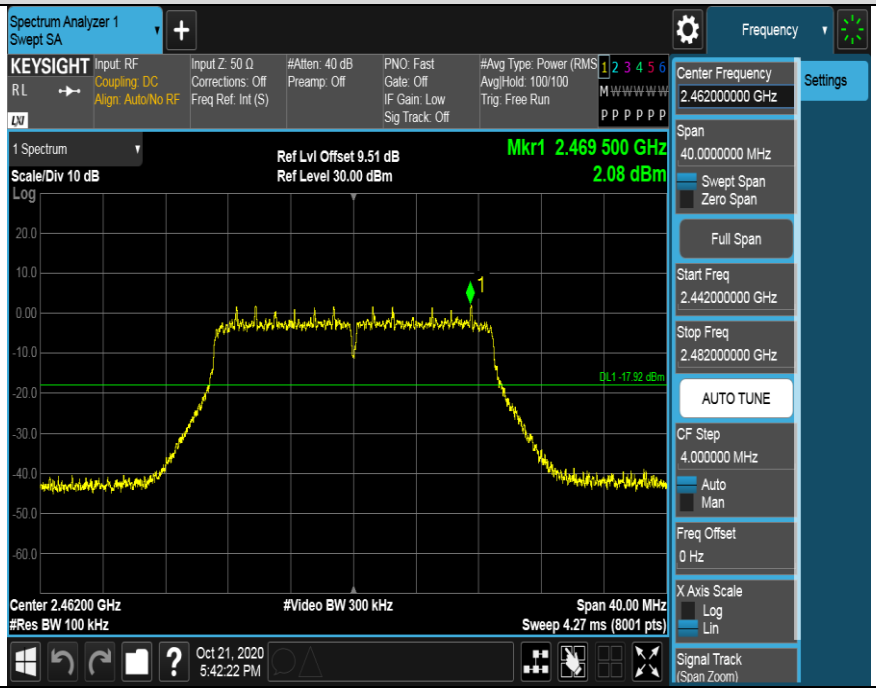
MCH SPURIOUS EMISSION_10GHz~26GHz



Test Mode	Channel	Verdict
11N HT20	HCH	PASS

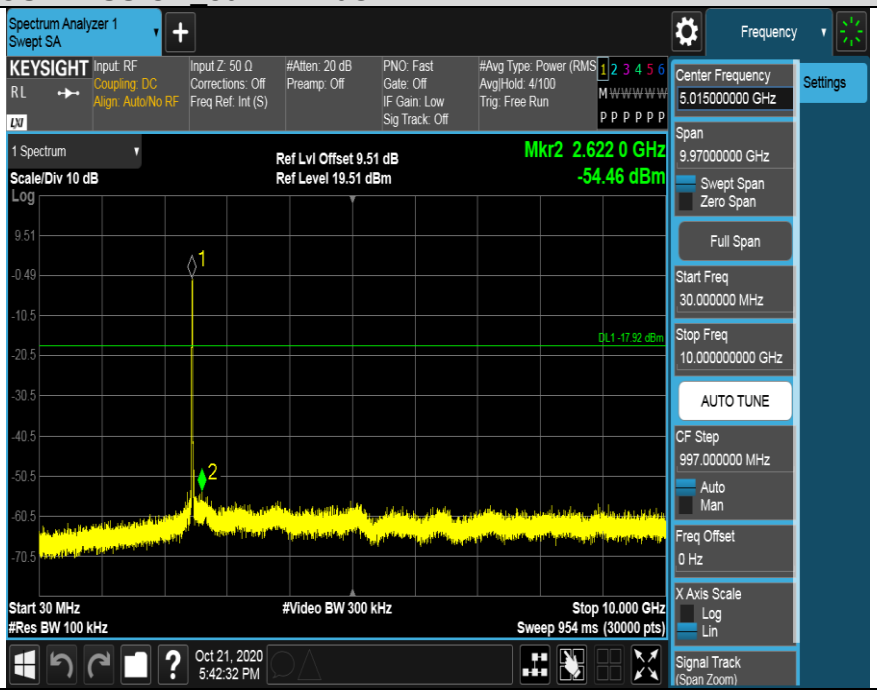
Pref test Plot

HCH SPURIOUS EMISSION

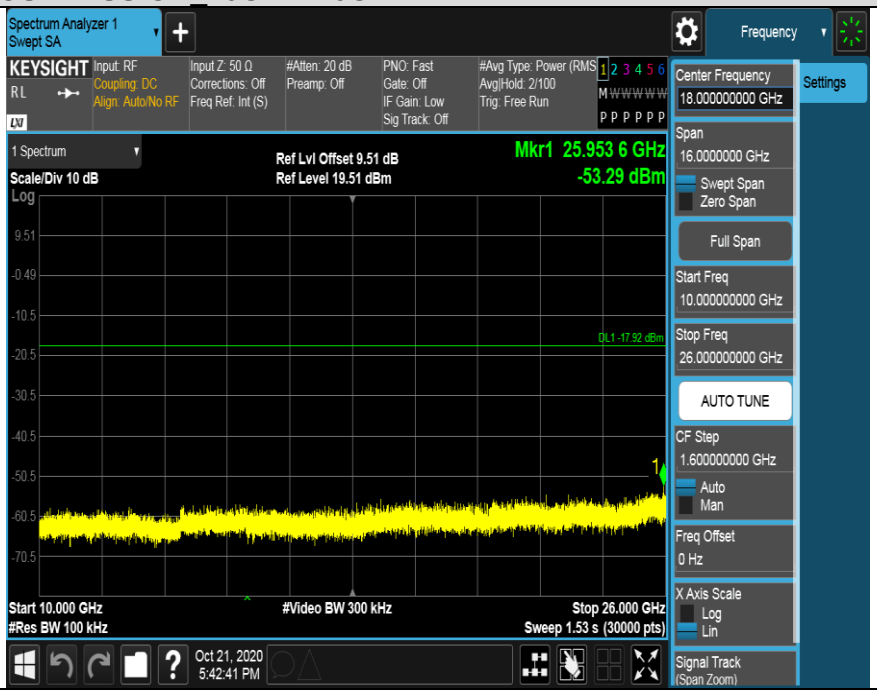


Puw test Plot

HCH SPURIOUS EMISSION_30MHz~10GHz

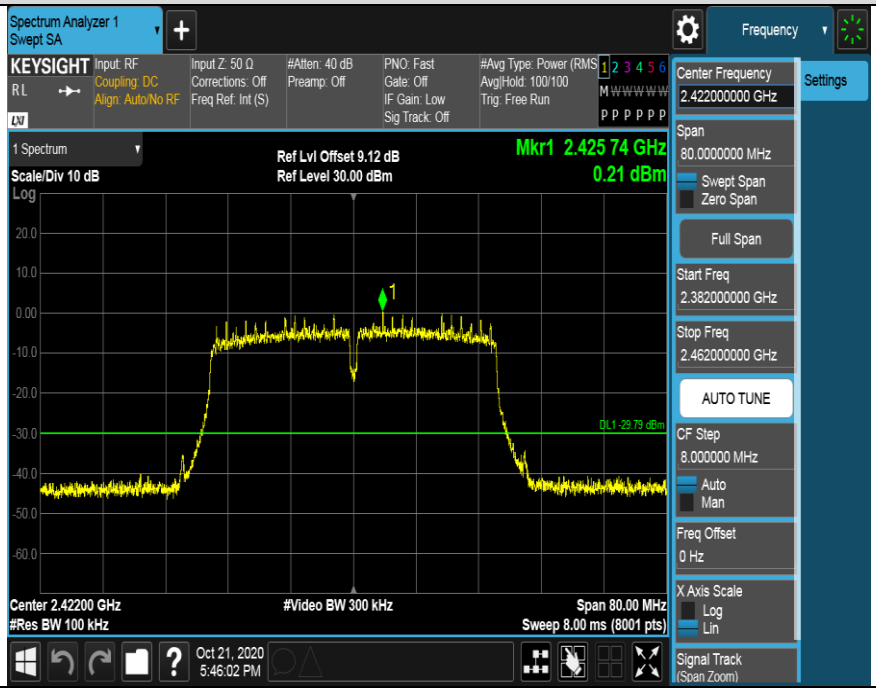


HCH SPURIOUS EMISSION_10GHz~26GHz



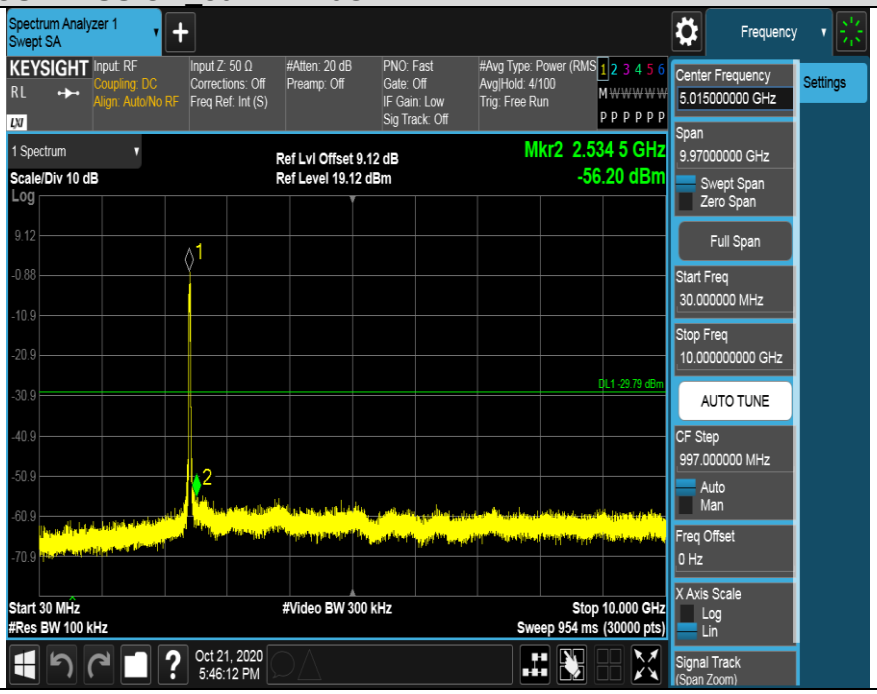
Test Mode	Channel	Verdict
11N HT40	LCH	PASS

Pref test Plot

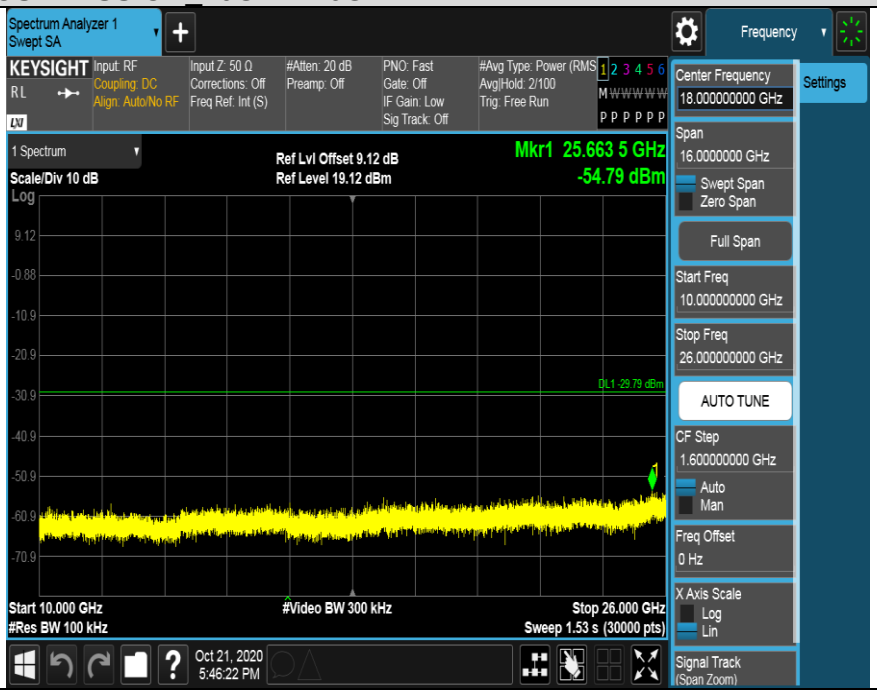
LCH SPURIOUS EMISSION


Puw test Plot

LCH SPURIOUS EMISSION_30MHz~10GHz



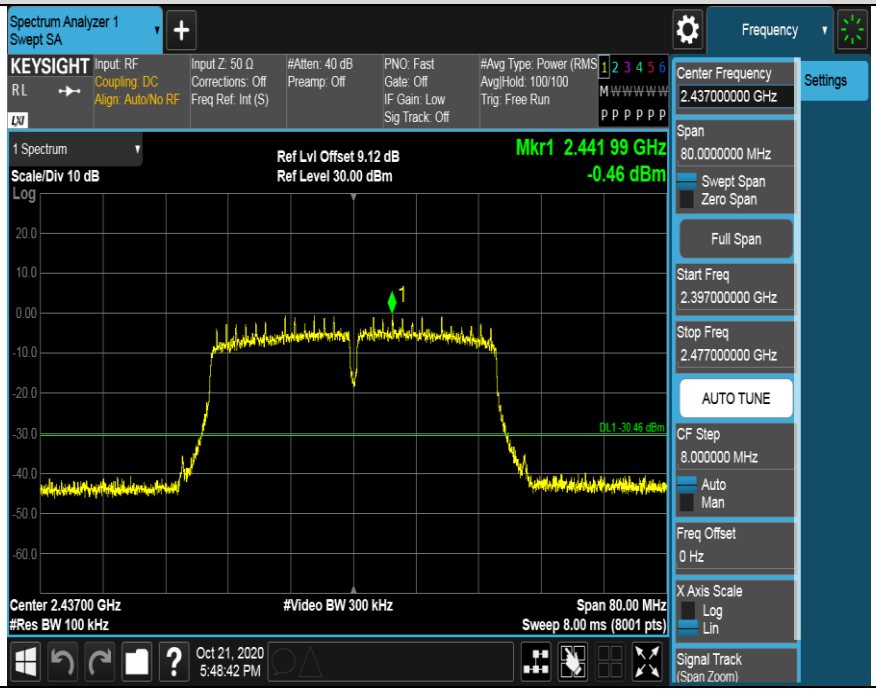
LCH SPURIOUS EMISSION_10GHz~26GHz



Test Mode	Channel	Verdict
11N HT40	MCH	PASS

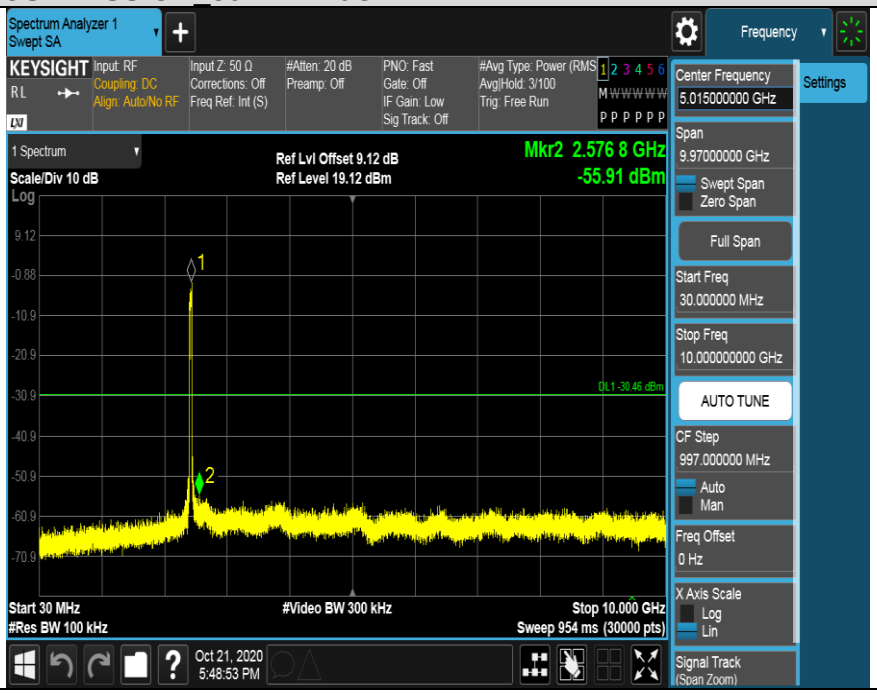
Pref test Plot

MCH SPURIOUS EMISSION

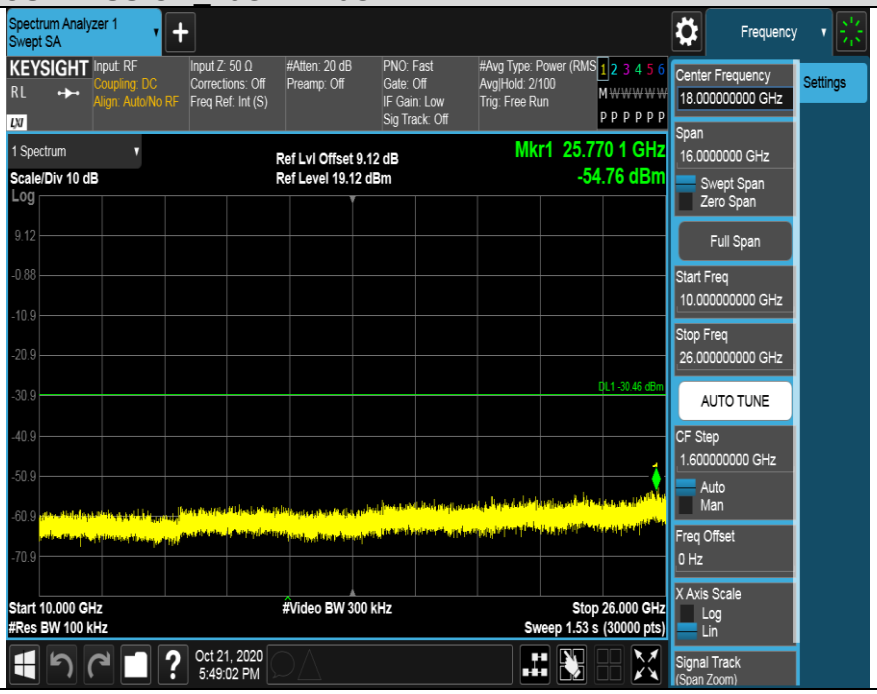


Puw test Plot

MCH SPURIOUS EMISSION_30MHz~10GHz



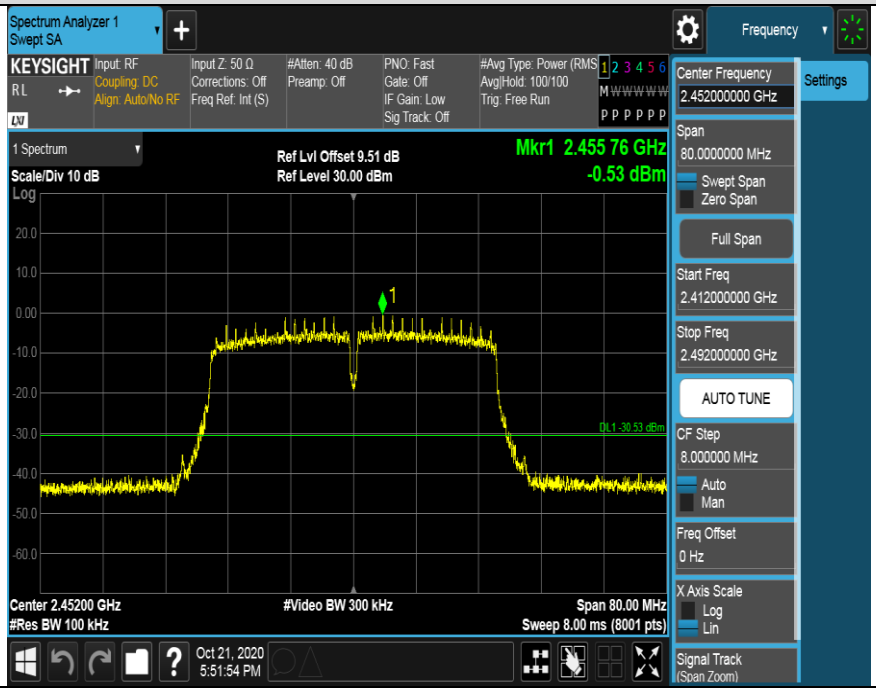
MCH SPURIOUS EMISSION_10GHz~26GHz



Test Mode	Channel	Verdict
11N HT40	HCH	PASS

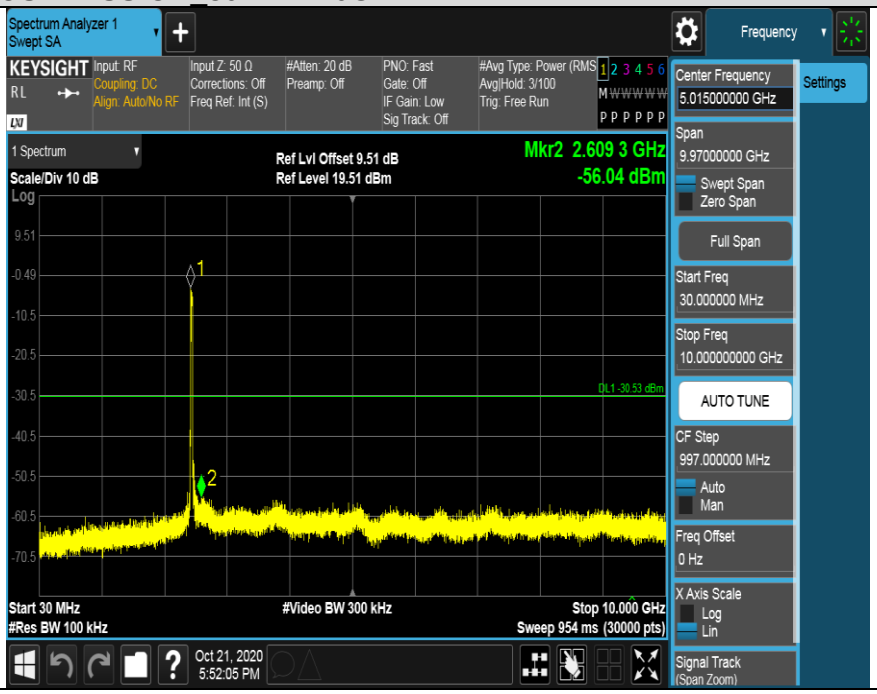
Pref test Plot

HCH SPURIOUS EMISSION

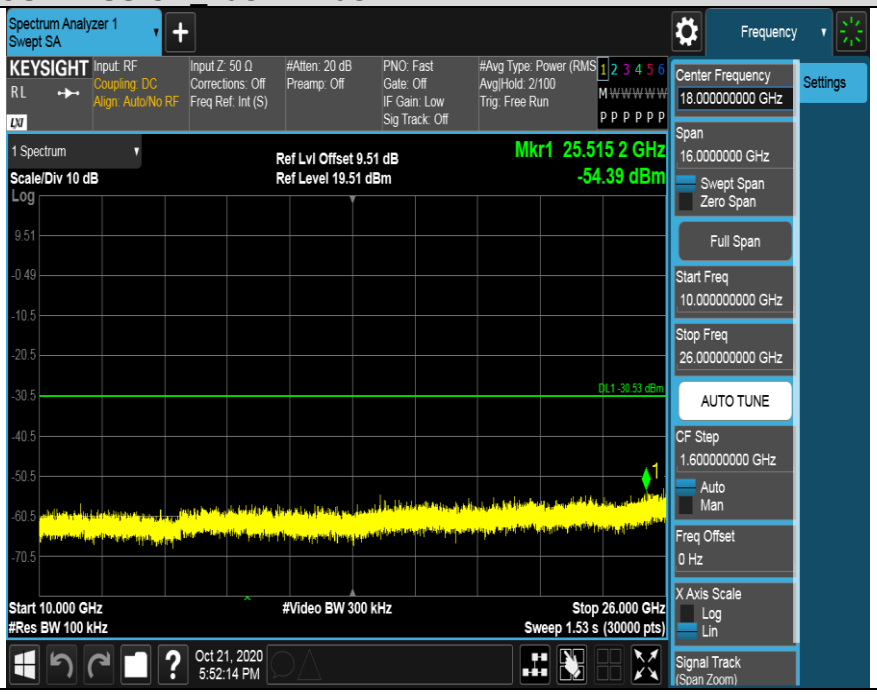


Puw test Plot

HCH SPURIOUS EMISSION_30MHz~10GHz



HCH SPURIOUS EMISSION_10GHz~26GHz



7.6. RADIATED TEST RESULTS

7.6.1. 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.

Radiation Disturbance Test Limit for FCC (Above 1G)

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

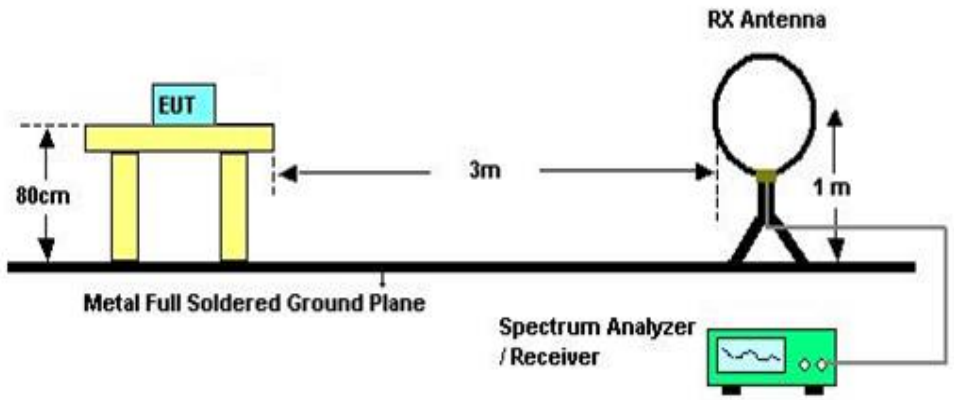
Restricted bands of operation

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

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.

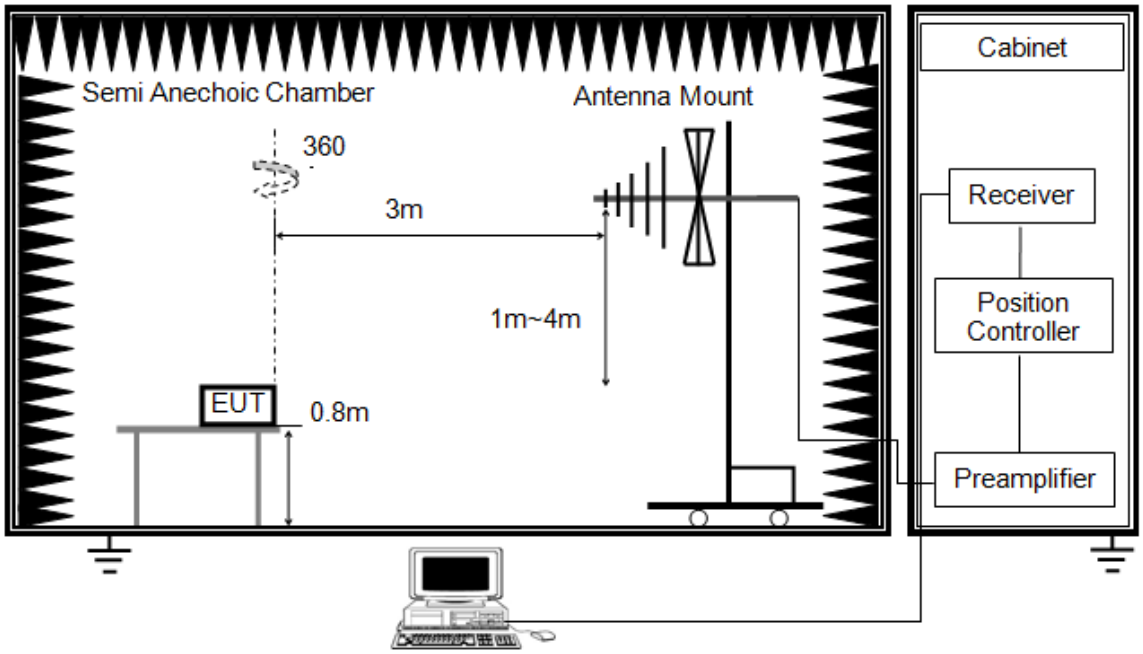
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

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)

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.

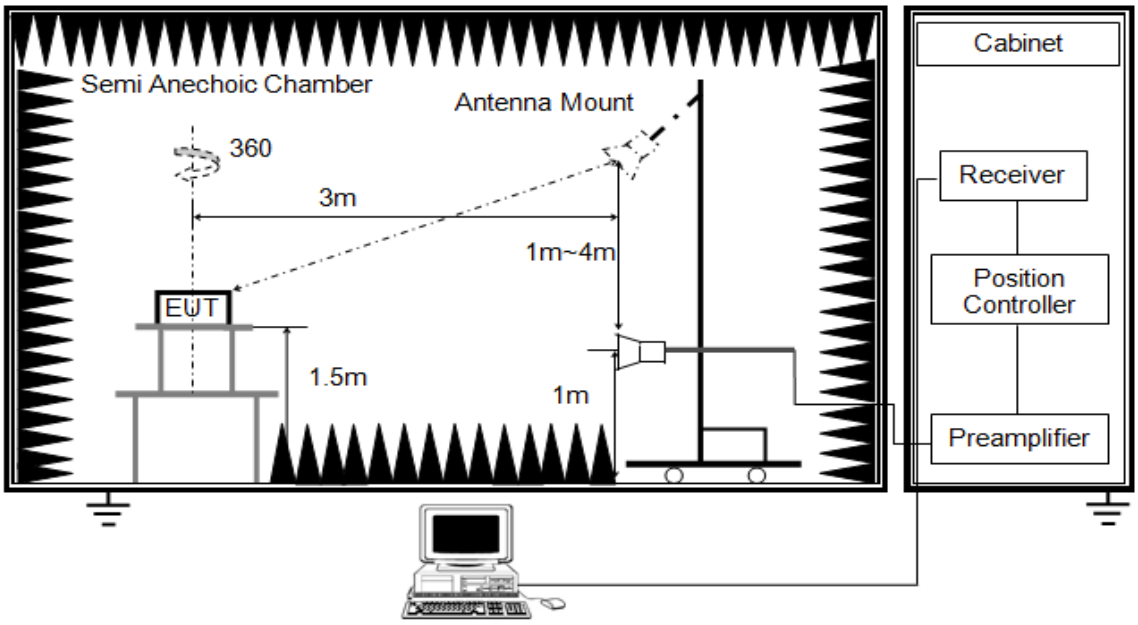
3. The EUT was placed on a turntable with 0.8 meter above ground.

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)

Above 1G



The setting of the spectrum analyser

RBW	1M
VBW	PEAK:3M AVG: See note6
Sweep	Auto
Detector	Peak/Average(10Hz)
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.

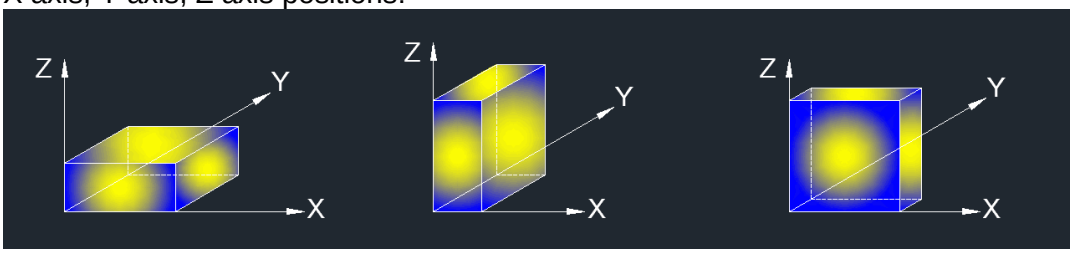
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

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 set VBW ≤RBW/100, but not less than 10Hz video bandwidth with peak detector， max hold to be run for at least 50 traces for average measurements.

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

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 worst case (Z axis) data recorded in the report.

7.6.2. TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

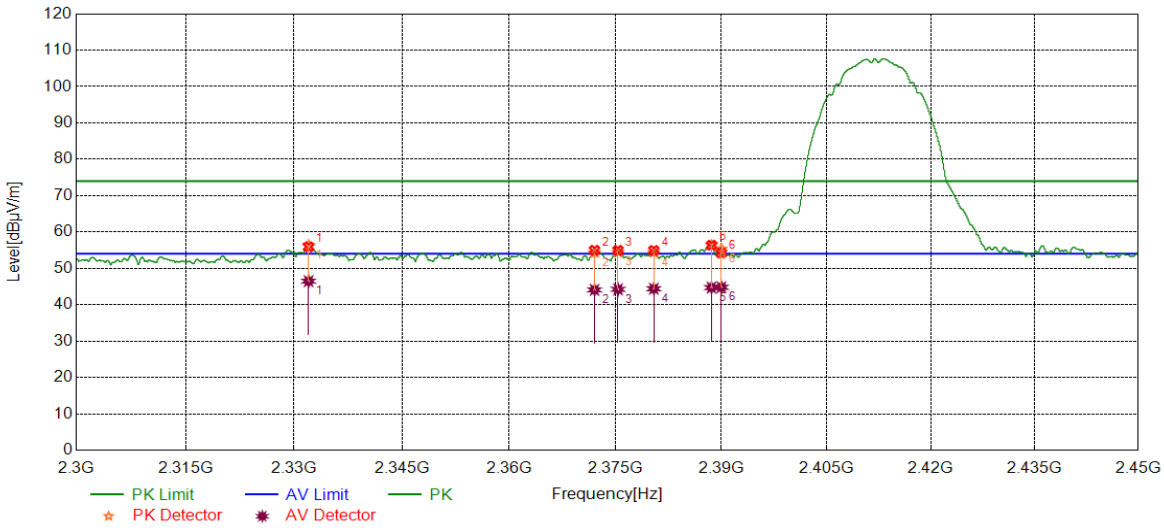
7.6.3. RESTRICTED BANDEDGE

Test Result Table

Test Mode	Channel	Puw(dBm)	Verdict
11B	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11G	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT20	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT40	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

Test Graphs

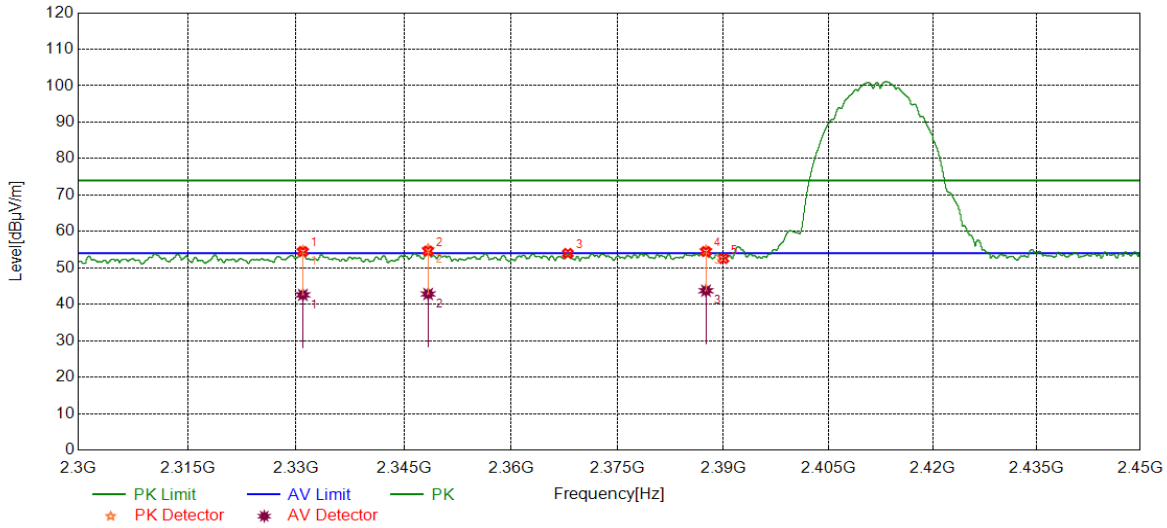
Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2332.0009	45.79	13.18	56.37	74.00	-15.03	peak
		33.30	13.18	46.48	54.00	-7.52	average
2	2372.0278	40.77	13.55	54.32	74.00	-19.68	peak
		30.53	13.55	44.08	54.00	-9.92	average
3	2375.3469	40.87	13.59	54.46	74.00	-19.54	peak
		30.64	13.59	44.23	54.00	-9.77	average
4	2380.4101	40.71	13.68	54.39	74.00	-19.61	peak
		30.72	13.68	44.40	54.00	-9.60	average
5	2388.5954	42.57	13.75	56.32	74.00	-17.68	peak
		30.96	13.75	44.71	54.00	-9.29	average
6	2390.0000	41.54	13.75	55.29	74.00	-18.71	peak
		31.05	13.75	44.80	54.00	-9.20	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

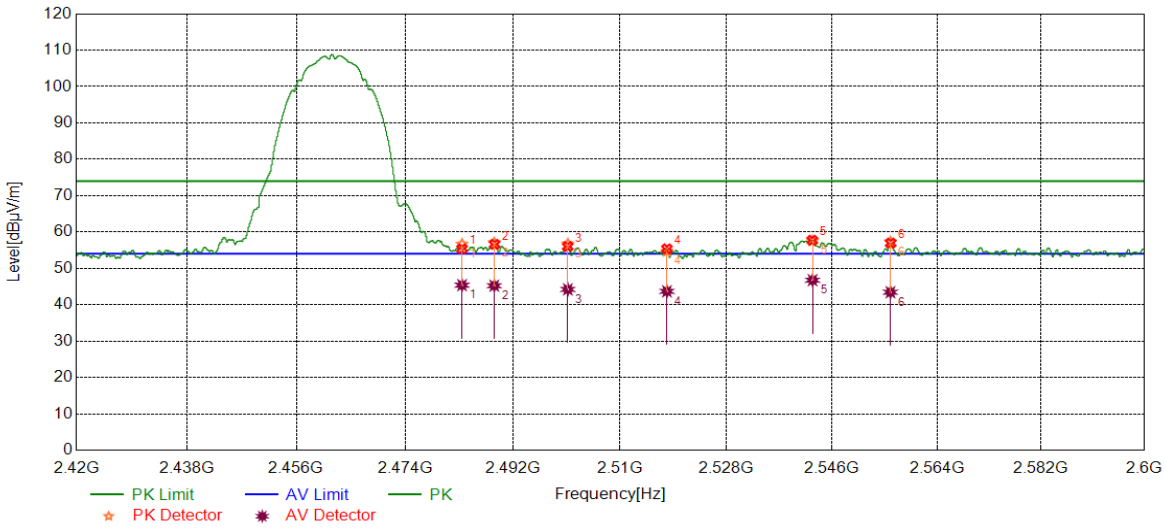
Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2330.9346	41.45	13.16	54.61	74.00	-19.39	peak
		29.42	13.16	42.58	54.00	-11.42	average
2	2348.3743	42.72	13.37	55.09	74.00	-17.91	peak
		29.46	13.37	42.83	54.00	-11.17	average
3	2367.9772	40.44	13.52	53.96	74.00	-20.04	peak
4	2387.5292	41.64	13.74	54.68	74.00	-18.62	peak
		30.00	13.74	43.74	54.00	-10.26	average
5	2390.0000	38.80	13.75	52.55	74.00	21.45	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

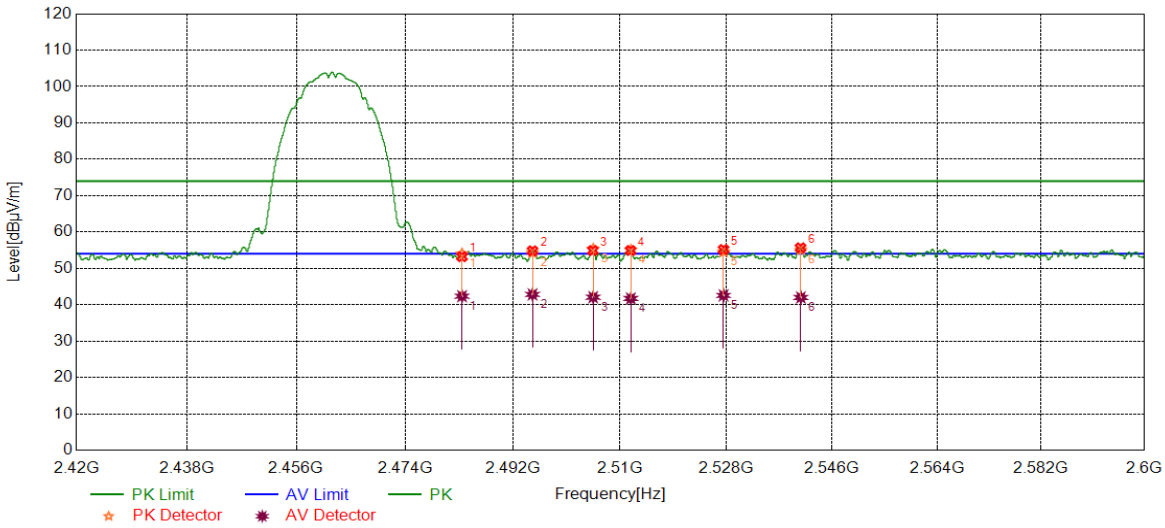
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	43.17	13.50	56.67	74.00	-17.33	peak
		31.88	13.50	45.38	54.00	-8.62	average
2	2488.8790	43.52	13.54	57.06	74.00	-16.94	peak
		31.69	13.54	45.23	54.00	-8.77	average
3	2501.2066	43.06	13.68	56.74	74.00	-17.26	peak
		30.53	13.68	44.21	54.00	-9.79	average
4	2517.9118	40.91	13.77	54.68	74.00	-19.32	peak
		29.91	13.77	43.68	54.00	-10.32	average
5	2542.6602	43.71	13.90	57.61	74.00	-16.39	peak
		32.85	13.90	46.75	54.00	-7.25	average
6	2555.9897	43.31	13.98	57.29	74.00	-16.71	peak
		29.46	13.98	43.44	54.00	-10.56	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

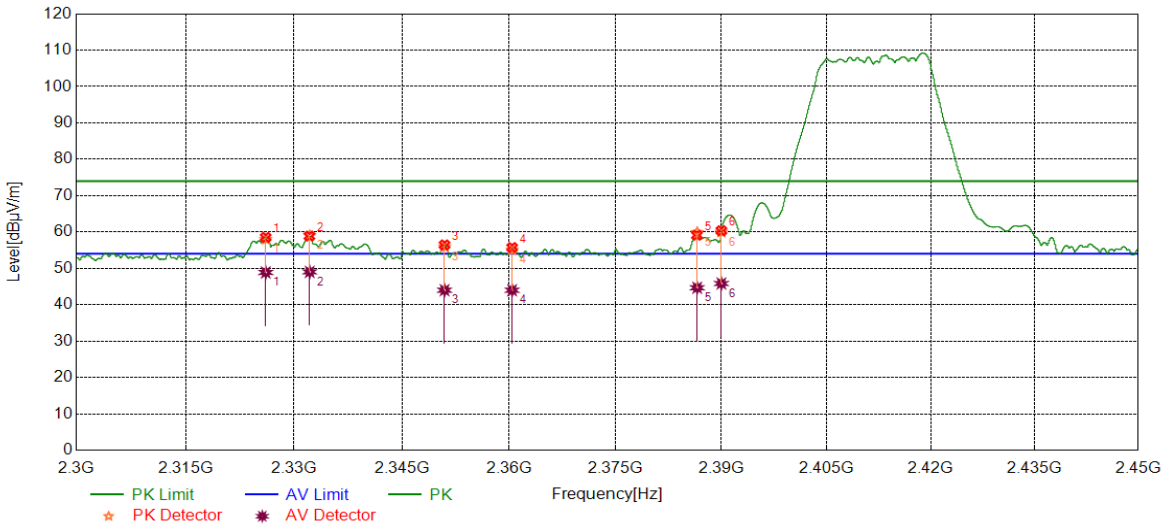
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	40.51	13.50	54.01	74.00	-19.99	peak
		28.85	13.50	42.35	54.00	-11.65	average
2	2495.2835	40.72	13.60	54.32	74.00	-19.68	peak
		29.23	13.60	42.83	54.00	-11.17	average
3	2505.4684	41.67	13.68	55.35	74.00	-18.65	peak
		28.39	13.68	42.07	54.00	-11.93	average
4	2511.8143	41.32	13.73	55.05	74.00	-18.95	peak
		27.99	13.73	41.72	54.00	-12.28	average
5	2527.5068	40.71	13.85	54.56	74.00	-19.44	peak
		28.71	13.85	42.56	54.00	-11.44	average
6	2540.6620	41.23	13.87	55.10	74.00	-18.90	peak
		28.13	13.87	42.00	54.00	-12.00	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

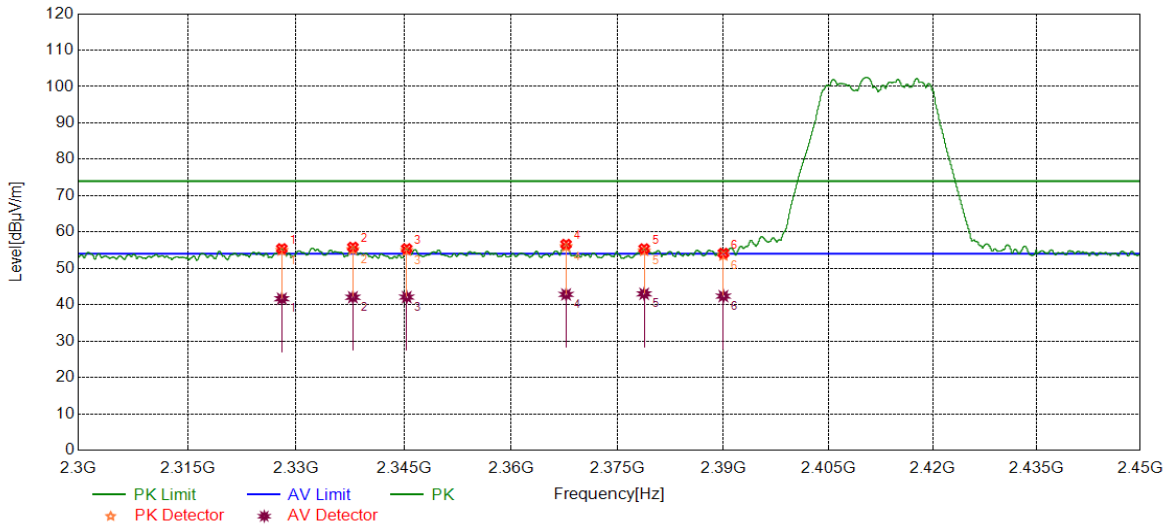
Test Mode	Channel	Polarization	Verdict
11G	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2326.0658	44.91	13.10	58.01	74.00	-15.99	peak
		35.78	13.10	48.88	54.00	-5.12	average
2	2332.1593	45.85	13.18	59.03	74.00	-14.97	peak
		35.85	13.18	49.03	54.00	-4.97	average
3	2350.9501	42.56	13.39	55.95	74.00	-18.05	peak
		30.61	13.39	44.00	54.00	-10.00	average
4	2360.4201	41.64	13.47	55.11	74.00	-18.89	peak
		30.52	13.47	43.99	54.00	-10.01	average
5	2386.5598	46.13	13.75	59.88	74.00	-14.12	peak
		30.92	13.75	44.67	54.00	-9.33	average
6	2390.0000	46.23	13.75	59.98	74.00	-14.02	peak
		32.09	13.75	45.84	54.00	-8.16	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

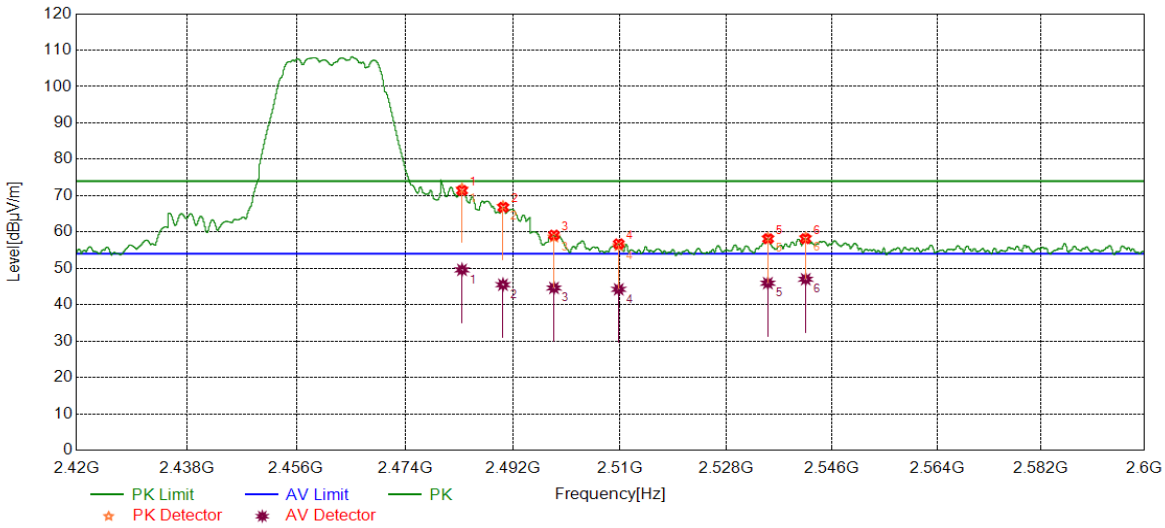
Test Mode	Channel	Polarization	Verdict
11G	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2328.0160	41.83	13.10	54.93	74.00	-19.07	peak
		28.56	13.10	41.66	54.00	-12.34	average
2	2337.8797	41.94	13.24	55.18	74.00	-18.82	peak
		28.82	13.24	42.06	54.00	-11.94	average
3	2345.3807	41.54	13.35	54.89	74.00	-19.11	peak
		28.75	13.35	42.10	54.00	-11.90	average
4	2367.7335	42.48	13.51	55.99	74.00	-18.01	peak
		29.32	13.51	42.83	54.00	-11.17	average
5	2378.7598	41.18	13.66	54.84	74.00	-19.16	peak
		29.34	13.66	43.00	54.00	-11.00	average
6	2390.0000	39.82	13.75	53.57	74.00	-20.43	peak
		28.62	13.75	42.37	54.00	-11.63	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

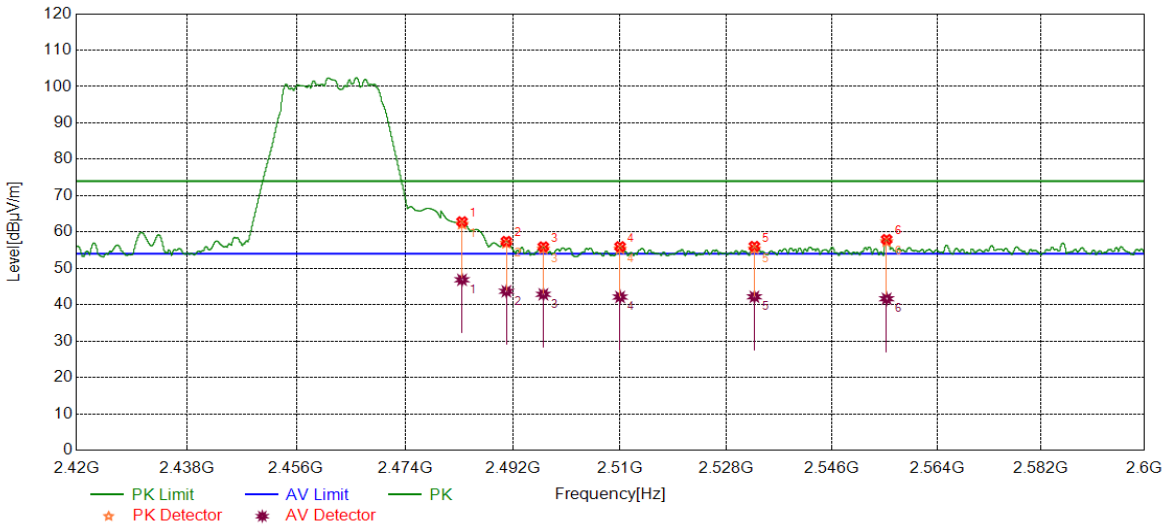
Test Mode	Channel	Polarization	Verdict
11G	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	58.36	13.50	71.86	74.00	-2.14	peak
		36.09	13.50	49.59	54.00	-4.41	average
2	2490.3371	53.51	13.56	67.07	74.00	-6.93	peak
		31.94	13.56	45.50	54.00	-8.50	average
3	2498.8839	44.97	13.66	58.63	74.00	-15.37	peak
		30.96	13.66	44.62	54.00	-9.38	average
4	2509.7750	42.52	13.72	56.24	74.00	-17.76	peak
		30.52	13.72	44.24	54.00	-9.76	average
5	2535.0356	44.46	13.86	58.32	74.00	-15.68	peak
		32.07	13.86	45.93	54.00	-8.07	average
6	2541.4900	44.53	13.88	58.41	74.00	-15.59	peak
		33.14	13.88	47.02	54.00	-6.98	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

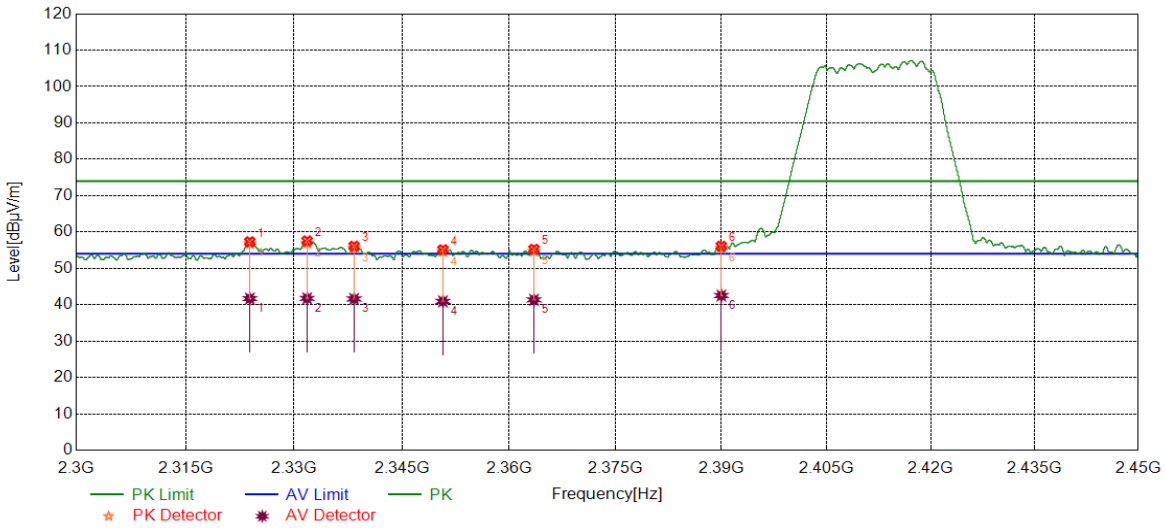
Test Mode	Channel	Polarization	Verdict
11G	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	48.65	13.51	62.16	74.00	-11.84	peak
		33.35	13.51	46.86	54.00	-7.14	average
2	2490.9091	43.35	13.57	56.92	74.00	-17.08	peak
		30.13	13.57	43.70	54.00	-10.30	average
3	2497.1017	41.75	13.63	55.38	74.00	-18.62	peak
		29.24	13.63	42.87	54.00	-11.13	average
4	2510.0090	41.65	13.72	55.37	74.00	-18.63	peak
		28.41	13.72	42.13	54.00	-11.87	average
5	2532.7453	41.54	13.84	55.38	74.00	-18.62	peak
		28.34	13.84	42.18	54.00	-11.82	average
6	2555.3375	43.38	13.98	57.36	74.00	-16.64	peak
		27.67	13.98	41.65	54.00	-12.35	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

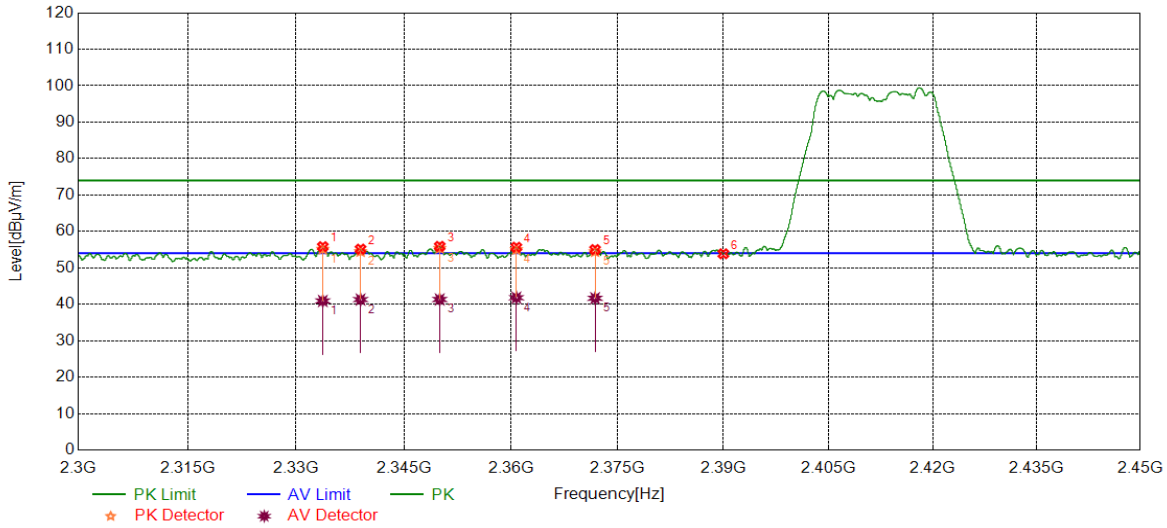
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2323.8717	43.75	13.06	56.81	74.00	-17.19	peak
		28.63	13.06	41.69	54.00	-12.31	average
2	2331.8040	43.72	13.18	56.90	74.00	-17.10	peak
		28.56	13.18	41.74	54.00	-12.26	average
3	2338.3298	42.34	13.25	55.59	74.00	-18.41	peak
		28.34	13.25	41.59	54.00	-12.41	average
4	2350.7251	41.23	13.39	54.62	74.00	-19.38	peak
		27.53	13.39	40.92	54.00	-13.08	average
5	2363.4954	41.26	13.48	54.74	74.00	-19.26	peak
		27.86	13.48	41.34	54.00	-12.66	average
6	2390.0000	41.77	13.75	55.52	74.00	-18.48	peak
		28.77	13.75	42.52	54.00	-11.48	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

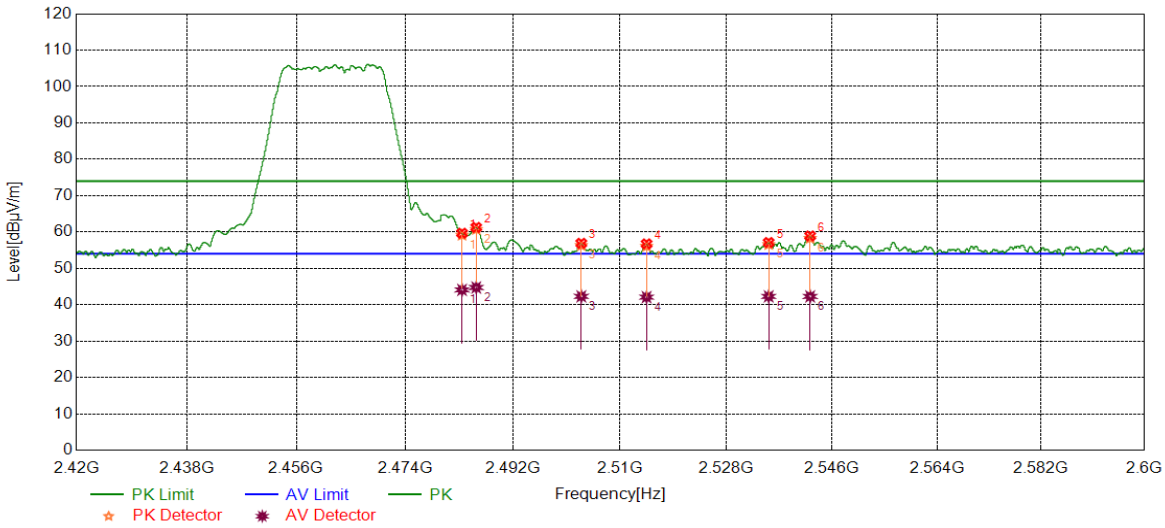
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2333.6980	41.93	13.20	55.13	74.00	-18.87	peak
		27.72	13.20	40.92	54.00	-13.08	average
2	2338.9486	41.22	13.27	54.49	74.00	-19.51	peak
		28.03	13.27	41.30	54.00	-12.70	average
3	2349.9937	41.99	13.38	55.37	74.00	-18.63	peak
		27.95	13.38	41.33	54.00	-12.67	average
4	2360.7388	41.56	13.47	55.03	74.00	-18.97	peak
		28.34	13.47	41.81	54.00	-12.19	average
5	2371.8215	40.91	13.55	54.46	74.00	-19.54	peak
		28.12	13.55	41.67	54.00	-12.33	average
6	2390.0000	40.12	13.75	53.87	74.00	-20.13	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

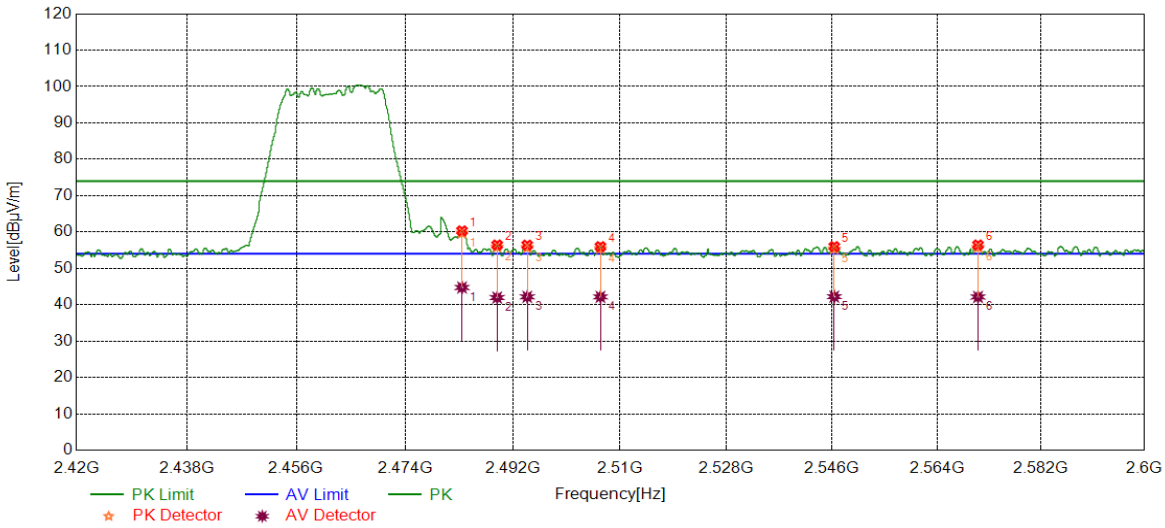
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	45.64	13.51	59.15	74.00	-14.85	peak
		30.57	13.51	44.08	54.00	-9.92	average
2	2485.8686	47.19	13.53	60.72	74.00	-13.28	peak
		31.21	13.53	44.74	54.00	-9.26	average
3	2503.4743	42.62	13.68	56.30	74.00	-17.70	peak
		28.62	13.68	42.30	54.00	-11.70	average
4	2514.4734	42.33	13.76	56.09	74.00	-17.91	peak
		28.33	13.76	42.09	54.00	-11.91	average
5	2535.1755	42.72	13.86	56.58	74.00	-17.42	peak
		28.43	13.86	42.29	54.00	-11.71	average
6	2542.2502	44.39	13.89	58.28	74.00	-15.72	peak
		28.39	13.89	42.28	54.00	-11.72	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

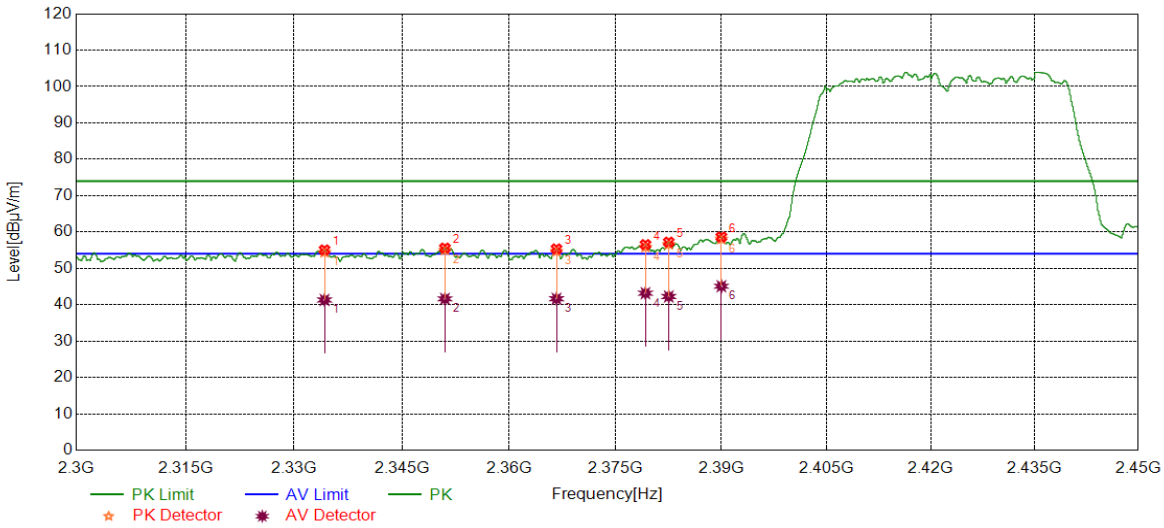
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	46.18	13.51	59.69	74.00	-14.31	peak
		31.23	13.51	44.74	54.00	-9.26	average
2	2489.3609	42.33	13.55	55.88	74.00	-18.12	peak
		28.42	13.55	41.97	54.00	-12.03	average
3	2494.4014	42.12	13.61	55.73	74.00	-18.27	peak
		28.56	13.61	42.17	54.00	-11.83	average
4	2506.6967	41.76	13.70	55.46	74.00	-18.54	peak
		28.46	13.70	42.16	54.00	-11.84	average
5	2546.3726	41.45	13.91	55.36	74.00	-18.64	peak
		28.31	13.91	42.22	54.00	-11.78	average
6	2571.0711	41.77	14.00	55.77	74.00	-18.23	peak
		28.14	14.00	42.14	54.00	-11.86	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

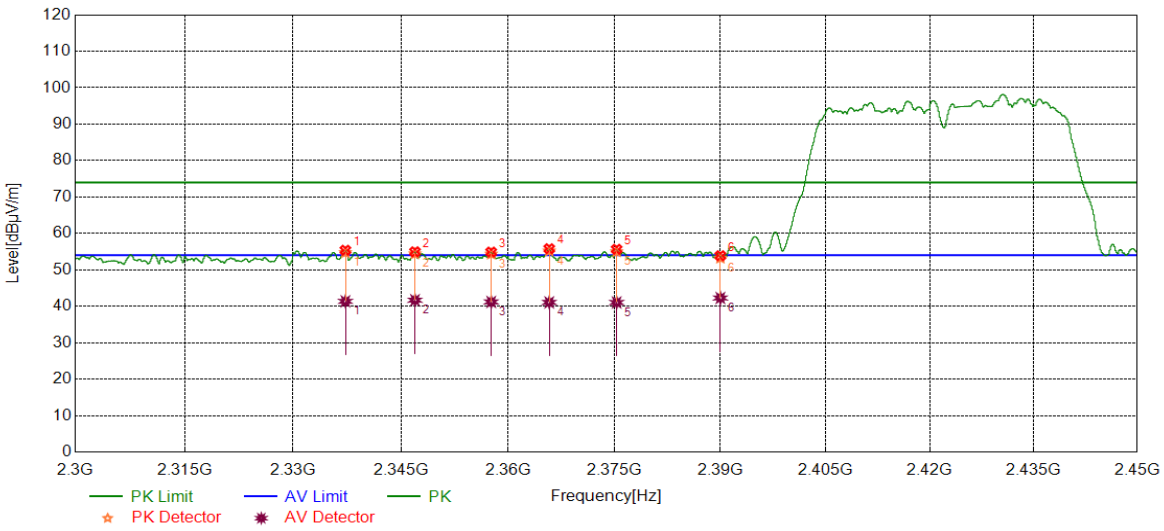
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2334.2230	41.23	13.21	54.44	74.00	-19.56	peak
		28.11	13.21	41.32	54.00	-12.68	average
2	2351.0064	41.66	13.40	55.06	74.00	-18.94	peak
		28.22	13.40	41.62	54.00	-12.38	average
3	2366.6646	41.21	13.50	54.71	74.00	-19.29	peak
		28.15	13.50	41.65	54.00	-12.35	average
4	2379.2287	42.22	13.66	55.88	74.00	-18.12	peak
		29.51	13.66	43.17	54.00	-10.83	average
5	2382.5291	42.93	13.70	56.63	74.00	-17.37	peak
		28.56	13.70	42.26	54.00	-11.74	average
6	2390.0000	44.32	13.75	58.07	74.00	-15.93	peak
		31.34	13.75	45.09	54.00	-8.91	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

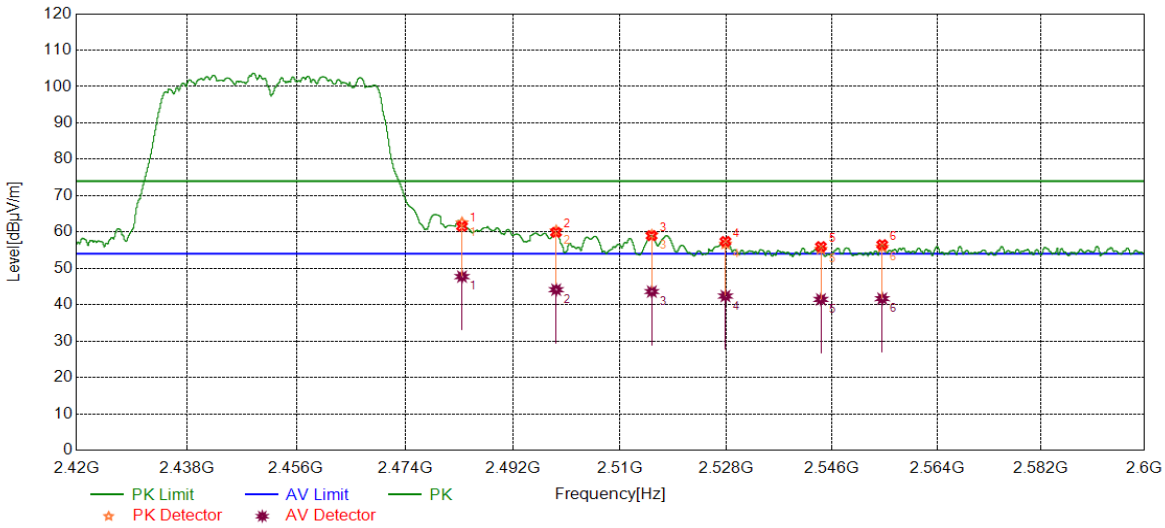
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2337.2609	41.51	13.24	54.75	74.00	-19.25	peak
		28.12	13.24	41.36	54.00	-12.64	average
2	2346.9559	41.08	13.35	54.43	74.00	-19.57	peak
		28.33	13.35	41.68	54.00	-12.32	average
3	2357.6260	40.92	13.44	54.36	74.00	-19.64	peak
		27.76	13.44	41.20	54.00	-12.80	average
4	2365.7832	41.70	13.50	55.20	74.00	-18.80	peak
		27.57	13.50	41.07	54.00	-12.93	average
5	2375.2907	41.40	13.59	54.99	74.00	-19.01	peak
		27.45	13.59	41.04	54.00	-12.96	average
6	2390.0000	39.49	13.75	53.24	74.00	-20.76	peak
		28.53	13.75	42.28	54.00	-11.72	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

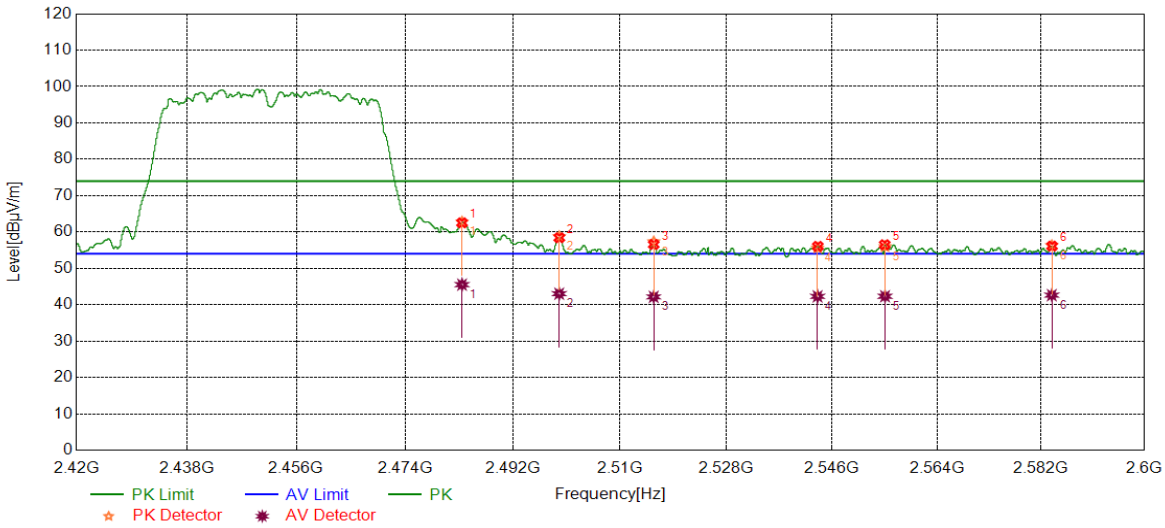
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	49.04	13.50	62.54	74.00	-11.46	peak
		34.23	13.50	47.73	54.00	-6.27	average
2	2499.2538	46.68	13.67	60.35	74.00	-13.65	peak
		30.46	13.67	44.13	54.00	-9.87	average
3	2515.3592	45.35	13.77	59.12	74.00	-14.88	peak
		29.85	13.77	43.62	54.00	-10.38	average
4	2527.8308	42.88	13.85	56.73	74.00	-17.27	peak
		28.53	13.85	42.38	54.00	-11.62	average
5	2544.0864	41.38	13.91	55.29	74.00	-18.71	peak
		27.55	13.91	41.46	54.00	-12.54	average
6	2554.5815	41.92	13.96	55.88	74.00	-18.12	peak
		27.72	13.96	41.68	54.00	-12.32	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	49.23	13.50	62.73	74.00	-11.27	peak
		32.02	13.50	45.52	54.00	-8.48	average
2	2499.7568	46.77	13.68	58.75	74.00	-13.55	peak
		29.35	13.68	43.03	54.00	-10.97	average
3	2515.6731	44.56	13.76	57.32	74.00	-15.68	peak
		28.40	13.76	42.16	54.00	-11.84	average
4	2543.5145	41.71	13.91	55.62	74.00	-18.38	peak
		28.39	13.91	42.30	54.00	-11.70	average
5	2555.0624	42.02	13.97	55.99	74.00	-18.01	peak
		28.36	13.97	42.33	54.00	-11.67	average
6	2583.8385	42.66	14.01	56.27	74.00	-17.33	peak
		28.62	14.01	42.63	54.00	-11.37	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

7.6.4. SPURIOUS EMISSIONS

Test Result Table:
1) For 1GHz~18GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11G	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT20	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT40	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

2) For 9KHz~30MHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	HCH	<Limit	PASS

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

3) For 30MHz~1GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	HCH	<Limit	PASS

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

4) For 18GHz~26.5GHz

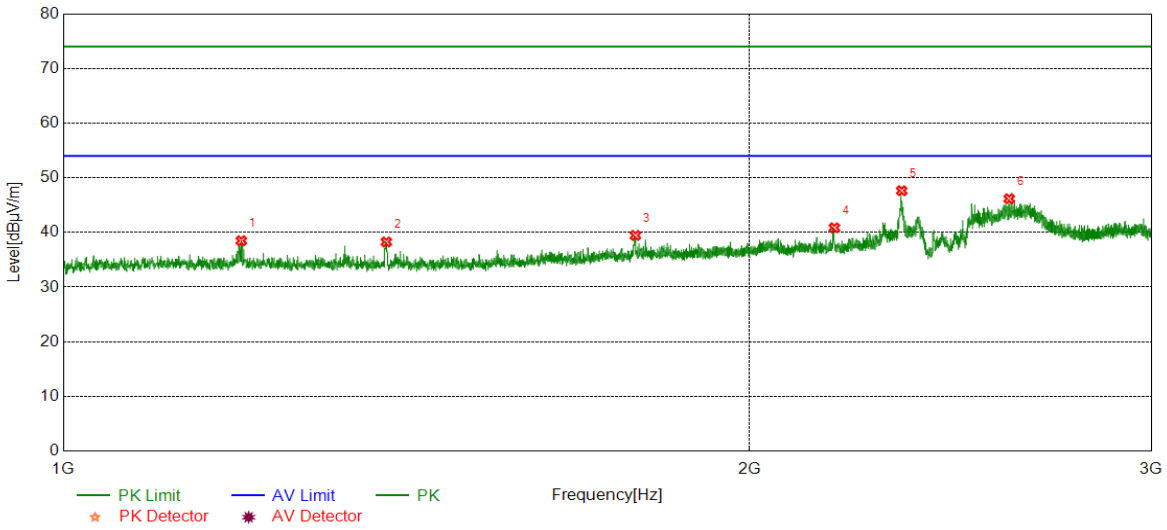
Test Mode	Channel	Puw(dBm)	Verdict
11B	HCH	<Limit	PASS

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

Part I: 1GHz~3GHz

HARMONICS AND SPURIOUS EMISSIONS

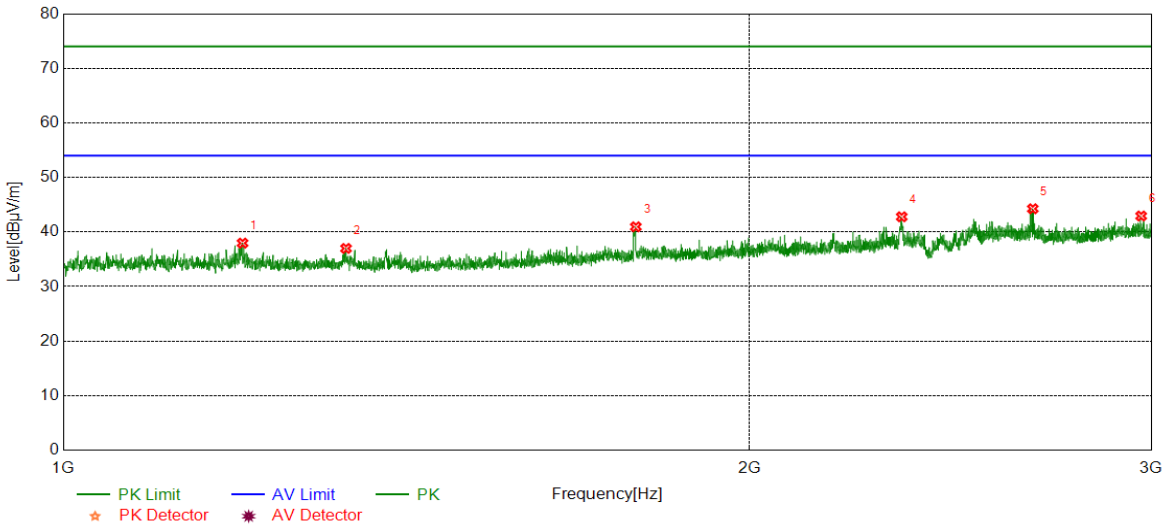
Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1197.0246	44.02	-5.54	38.48	74.00	-35.52	peak
2	1385.7982	44.00	-5.74	38.26	74.00	-35.74	peak
3	1782.0978	43.38	-3.93	39.45	74.00	-34.55	peak
4	2178.6473	43.17	-2.33	40.84	74.00	-33.16	peak
5	2331.9165	49.45	-1.82	47.63	74.00	-26.37	peak
6	2599.1999	46.86	-0.69	46.17	74.00	-27.83	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. 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.

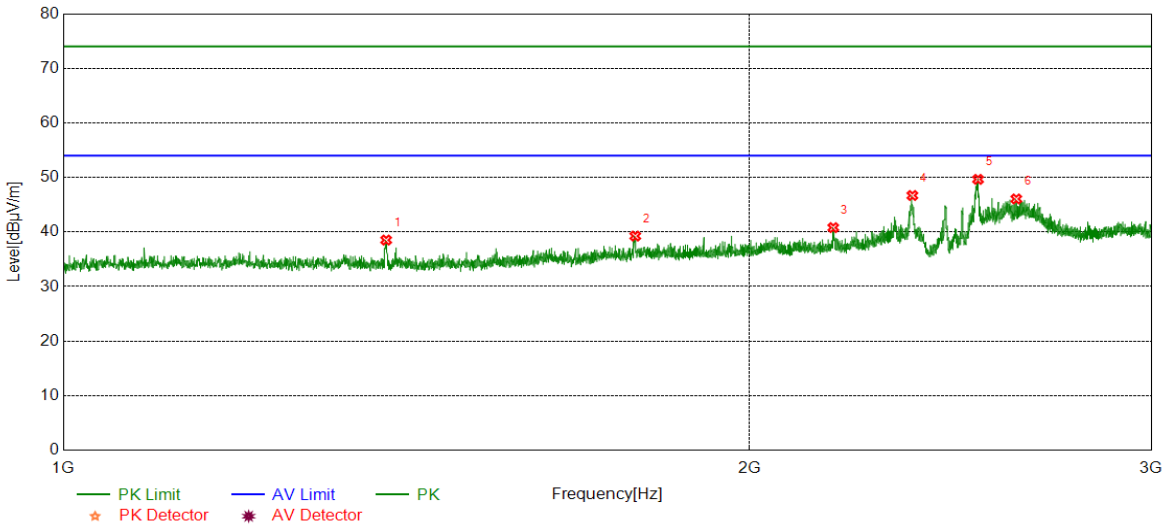
Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.5248	43.50	-5.54	37.96	74.00	-36.04	peak
2	1330.5413	42.61	-5.62	36.99	74.00	-37.01	peak
3	1782.8479	44.89	-3.94	40.95	74.00	-33.05	peak
4	2331.9165	44.61	-1.82	42.79	74.00	-31.21	peak
5	2661.9577	45.02	-0.76	44.26	74.00	-29.74	peak
6	2969.7462	42.02	0.91	42.93	74.00	-31.07	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. 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.

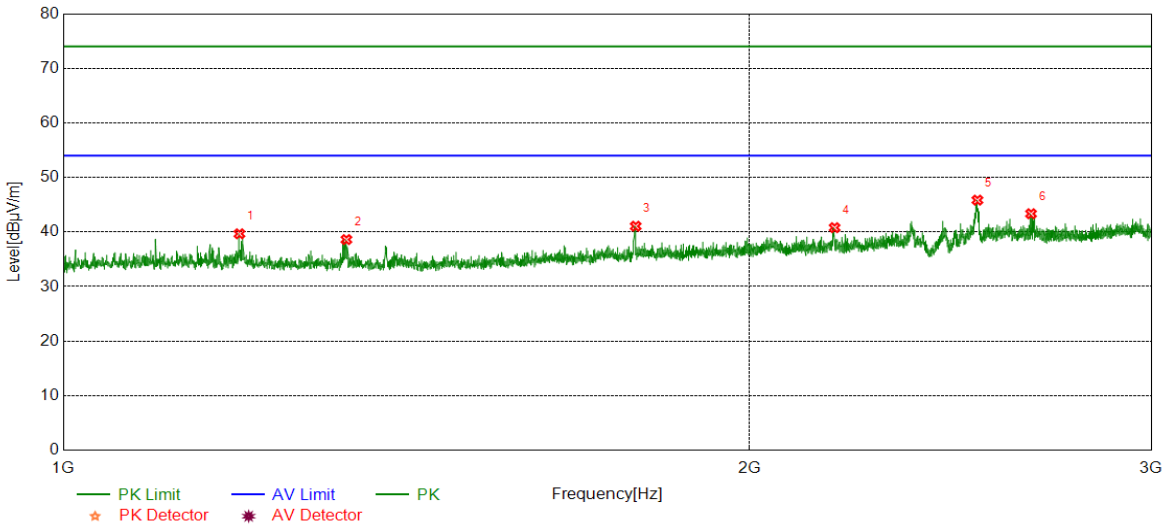
Test Mode	Channel	Polarization	Verdict
11B	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1385.5482	44.26	-5.74	38.52	74.00	-35.48	peak
2	1781.8477	43.19	-3.93	39.26	74.00	-34.74	peak
3	2176.1470	43.16	-2.36	40.80	74.00	-33.20	peak
4	2357.1696	48.36	-1.67	46.69	74.00	-27.31	peak
5	2518.6898	50.38	-0.73	49.65	74.00	-24.35	peak
6	2617.9522	46.61	-0.55	46.06	74.00	-27.94	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. 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.

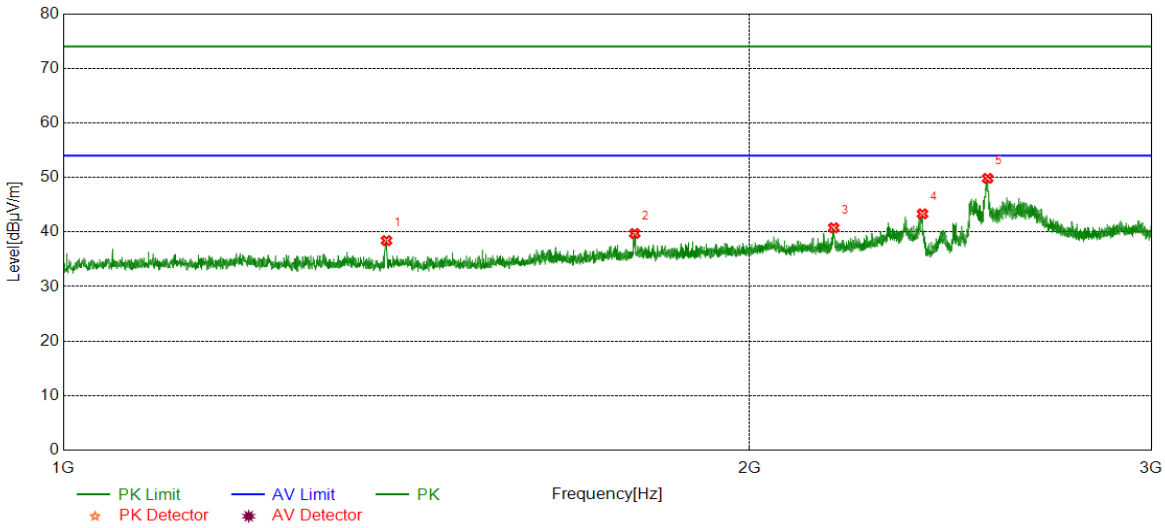
Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1194.7743	45.22	-5.55	39.67	74.00	-34.33	peak
2	1331.0414	44.23	-5.62	38.61	74.00	-35.39	peak
3	1782.5978	44.99	-3.93	41.06	74.00	-32.94	peak
4	2179.1474	43.11	-2.32	40.79	74.00	-33.21	peak
5	2517.1896	46.54	-0.70	45.84	74.00	-28.16	peak
6	2657.2072	44.12	-0.77	43.35	74.00	-30.65	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. 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.

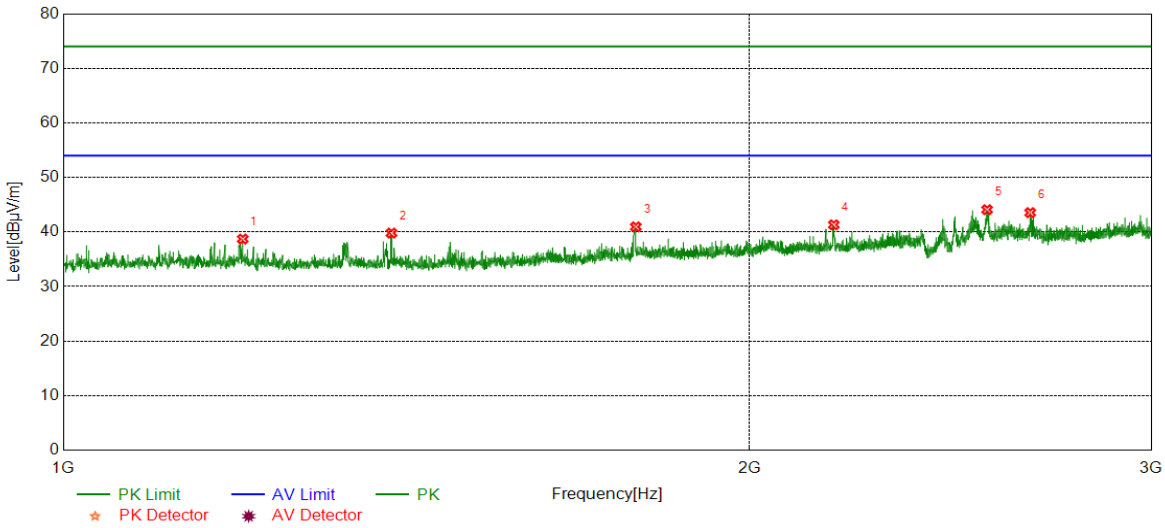
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1386.0483	44.16	-5.74	38.42	74.00	-35.58	peak
2	1780.8476	43.65	-3.92	39.73	74.00	-34.27	peak
3	2177.1471	43.12	-2.35	40.77	74.00	-33.23	peak
4	2381.4227	44.82	-1.49	43.33	74.00	-30.67	peak
5	2543.1929	50.91	-1.08	49.83	74.00	-24.17	peak
6	1386.0483	44.16	-5.74	38.42	74.00	-35.58	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. 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.

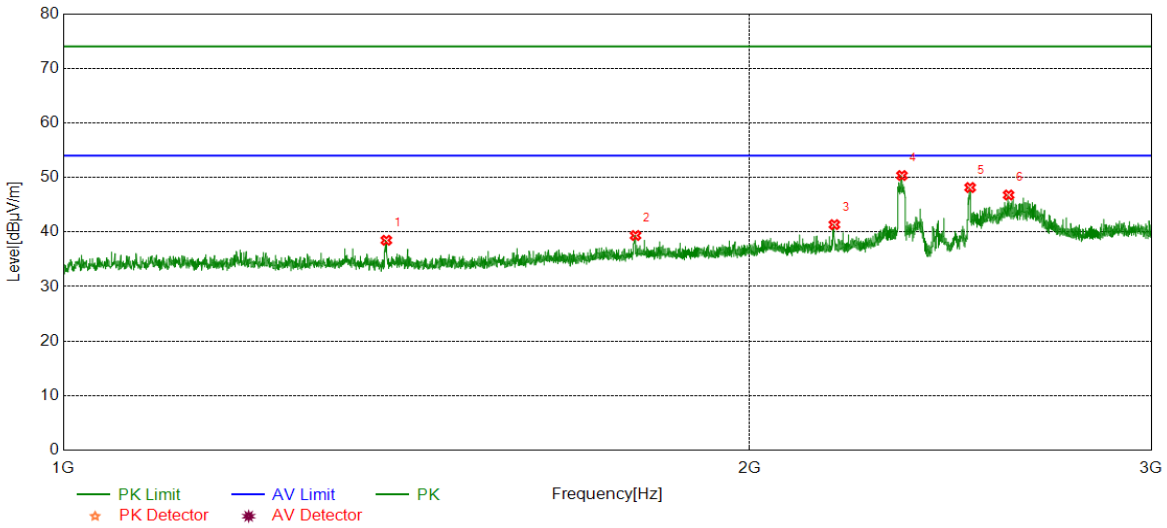
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.7748	44.25	-5.54	38.71	74.00	-35.29	peak
2	1393.0491	45.49	-5.69	39.80	74.00	-34.20	peak
3	1782.8479	44.89	-3.94	40.95	74.00	-33.05	peak
4	2177.3972	43.67	-2.35	41.32	74.00	-32.68	peak
5	2541.9427	45.18	-1.09	44.09	74.00	-29.91	peak
6	2654.9569	44.34	-0.79	43.55	74.00	-30.45	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. 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.

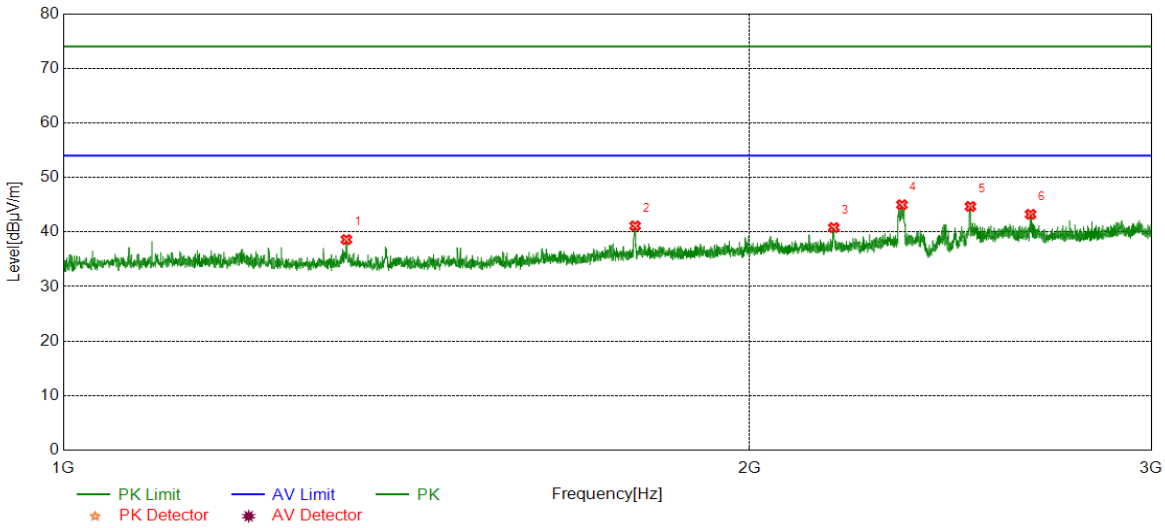
Test Mode	Channel	Polarization	Verdict
11G	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1385.7982	44.22	-5.74	38.48	74.00	-35.52	peak
2	1782.3478	43.29	-3.93	39.36	74.00	-34.64	peak
3	2178.6473	43.68	-2.33	41.35	74.00	-32.65	peak
4	2332.4166	52.17	-1.82	50.35	74.00	-23.65	peak
5	2498.6873	48.77	-0.62	48.15	74.00	-25.85	peak
6	2597.6997	47.50	-0.72	46.78	74.00	-27.22	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. 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.

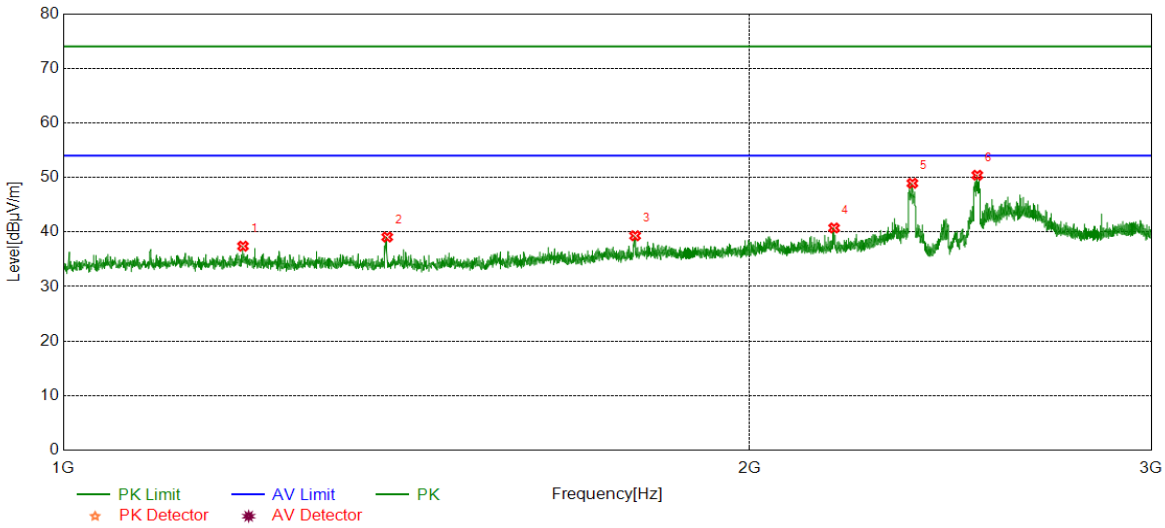
Test Mode	Channel	Polarization	Verdict
11G	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1331.0414	44.23	-5.62	38.61	74.00	-35.39	peak
2	1781.5977	45.05	-3.93	41.12	74.00	-32.88	peak
3	2177.3972	43.16	-2.35	40.81	74.00	-33.19	peak
4	2332.4166	46.82	-1.82	45.00	74.00	-29.00	peak
5	2499.4374	45.29	-0.61	44.68	74.00	-29.32	peak
6	2655.9570	44.02	-0.78	43.24	74.00	-30.76	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. 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.

Test Mode	Channel	Polarization	Verdict
11G	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.0249	42.94	-5.54	37.40	74.00	-36.60	peak
2	1387.0484	44.81	-5.74	39.07	74.00	-34.93	peak
3	1781.5977	43.24	-3.93	39.31	74.00	-34.69	peak
4	2177.8972	43.08	-2.34	40.74	74.00	-33.26	peak
5	2357.1696	50.60	-1.67	48.93	74.00	-25.07	peak
6	2516.9396	51.10	-0.69	50.41	74.00	-23.59	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. 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.