



**FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 Issue 2**

CERTIFICATION TEST REPORT

For

Air Fryer

FCC MODEL NUMBER: F2W, AF200T, AF200W, AF200TY, AF200QM

ISED MODEL NUMBER: F2W, AF200W

PROJECT NUMBER: 4789851267

REPORT NUMBER: 4789851267-4

FCC ID: 2AQ3A-KY02

IC: 24268-KY02

ISSUE DATE: Jul. 06, 2021

Prepared for

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Prepared by

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	07/06/2021	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen VanTop Technology & Innovation Co., Ltd.
Address: 502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China

Manufacturer Information

Company Name: Ningbo Jumeng Intelligent Technology Co., Ltd.
Address: No.599 Guanfu South Road, Guanhaiwei Town, Cixi City, Ningbo, Zhejiang, P.R China

EUT Description

Product Name: Air Fryer
FCC Model Name: F2W, AF200T, AF200W, AF200TY, AF200QM
ISED Model Name: F2W, AF200W
Sample Number: 3914423
Data of Receipt Sample: Apr. 14, 2021
Test Date: May. 10, 2021 ~ Jun. 30, 2021

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS
ISED RSS-247 Issue 2	PASS
ISED RSS-GEN Issue 5	PASS



Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	6db DTS Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2) RSS-247 Clause 5.2 (a) RSS-Gen Clause 6.7	PASS
2	Conducted Power	FCC 15.247 (b) (3) RSS-247 Clause 5.4 (d) RSS-Gen Clause 6.12	PASS
3	Power Spectral Density	FCC 15.247 (e) RSS-247 Clause 5.2 (b)	PASS
4	Conducted Band edge And Spurious emission	FCC 15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	PASS
5	Radiated Band edges and Spurious emission	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 RSS-GEN Clause 6.13	PASS
6	Conducted Emission Test For AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	PASS
7	Antenna Requirement	FCC 15.203 RSS-GEN Clause 6.8	PASS
Remark: 1) The measurement result for the sample received is <Pass> according to < ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15C, ISED RSS-GEN, ISED RSS-247> when <Accuracy Method> decision rule is applied.			

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>IC (IC Designation No.: 25056 CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.1dB
Radiation Emission test(include Fundamental emission) (9kHz-30MHz)	3.3dB
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	3.3dB
Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	3.9dB (1GHz-18GHz)
	4.2dB (18GHz-26.5GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name:	Air Fryer
Model No.:	F2W
Operating Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE for 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channels Step:	Channels with 5MHz step
Sample Type:	Fixed production
Test power grade:	N/A
Test software of EUT:	UI_mptool (manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	2.5 dBi

Remark:

Model No.:

No.:	Name:	No.:	Name:	No.:	Name:
1	F2W	2	AF200T	3	AF200W
4	AF200TY	5	AF200QM		

Only the main model F2W was tested and only the data of this model is shown in this test report. Since Their material, types of encloser, antenna location, electrical circuit design, layout, components used and internal wiring are identical, only the model name and software are different and the user can't change the RF parameters or others access the software setting.



5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains (NTX)	IEE Std. 802.11	Channel Number	Max AVG Conducted Power (dBm)
1	IEEE 802.11B	1-11[11]	16.21
1	IEEE 802.11G	1-11[11]	12.16
1	IEEE 802.11nHT20	1-11[11]	12.14

5.3. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452		



5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel (MHz)
IEEE 802.11B	LCH: CH01 2412
	MCH: CH06 2437
	HCH: CH11 2462
IEEE 802.11G	LCH: CH01 2412
	MCH: CH06 2437
	HCH: CH11 2462
IEEE 802.11n HT20	LCH: CH01 2412
	MCH: CH06 2437
	HCH: CH11 2462

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worst Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		SecureCRT					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	N/A	N/A	N/A	/		
802.11g	1	N/A	N/A	N/A			
802.11n HT20	1	N/A	N/A	N/A			



5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2400-2483.5	PCB Antenna	2.5

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11g	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11N (HT20)	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.

5.7. THE WORSE CASE CONFIGURATIONS

For WIFI module, the worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20 mode: MCS0



5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	23 ~ 28°C
Voltage :	VL	N/A
	VN	AC 120V
	VH	N/A

Note: VL= Lower Extreme Test Voltage
VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature



5.10. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	N/A

I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB to TTL	USB	100cm Length	N/A

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	N/A	N/A	N/A	N/A



TEST SETUP

The EUT can work in an engineer mode with a software through a table PC.

SETUP DIAGRAM FOR TESTS





5.12. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	126700	2019-12-12	2020-12-11	2021-12-10
<input checked="" type="checkbox"/>	Two-Line V-Network	R&S	ENV216	126701	2019-12-12	2020-12-11	2021-12-10
<input checked="" type="checkbox"/>	Artificial Mains Networks	R&S	ENY81	126711	2019-12-12	2020-12-11	2021-12-10
Software							
Used	Description		Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Conducted disturbance		R&S	EMC32	Ver. 9.25		
Radiated Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9010B	MY57110128	2020-05-28	2021-05-27	2022-05-26
<input checked="" type="checkbox"/>	EMI test receiver	R&S	ESR26	126703	2020-12-21	2021-12-20	2022-12-19
<input checked="" type="checkbox"/>	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB 1513	513-265	2020-06-15	2021-06-14	2022-06-13
<input checked="" type="checkbox"/>	Receiver Antenna (30MHz-1GHz)	SunAR RF Motion	JB1	126704	N/A	2019-01-28	2022-01-27
<input checked="" type="checkbox"/>	Receiver Antenna (1GHz-18GHz)	R&S	HF907	126705	2020-01-26	2021-01-25	2022-01-24
<input checked="" type="checkbox"/>	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170	126706	2020-02-05	2021-02-04	2022-02-03
<input checked="" type="checkbox"/>	Receiver Antenna (26.5GHz-40GHz)	TOYO	HAP 26-40W	00000012	2020-07-22	2021-07-21	2022-07-20
<input checked="" type="checkbox"/>	Pre-amplification (To 1GHz)	R&S	SCU-03D	134666	2020-02-05	2021-02-04	2022-02-03
<input checked="" type="checkbox"/>	Pre-amplification (To 18GHz)	Compliance Direction System Inc.	PAP-1G18-50	14140-13467	2020-03-17	2021-03-16	2022-03-15
<input checked="" type="checkbox"/>	Pre-amplification (To 26.5GHz)	R&S	SCU-26D	134668	2020-02-05	2021-02-04	2022-02-03
<input checked="" type="checkbox"/>	Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	1	2020-05-28	2021-05-27	2022-05-26
<input checked="" type="checkbox"/>	Highpass Filter	Wainwright	WHKX10-2700-3000-18000-40SS	2	2020-05-28	2021-05-27	2022-05-26
Software							
Used	Description		Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance		Tonscend	JS32	V1.0		
Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9010B	MY57110128	2020-05-28	2021-05-27	2022-05-26
<input checked="" type="checkbox"/>	Power Meter	Keysight	U2021XA	MY57110002	2020-06-11	2021-06-10	2022-06-09



6. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6dB Bandwidth	KDB 558074 D01 15.247 Meas Guidance v05r02	8.2
2	Output Power	KDB 558074 D01 15.247 Meas Guidance v05r02	8.3.1.3/8.3.2.3
3	Power Spectral Density	KDB 558074 D01 15.247 Meas Guidance v05r02	8.4
4	Out-of-band emissions in non-restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.5
5	Out-of-band emissions in restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.6
6	Band-edge	KDB 558074 D01 15.247 Meas Guidance v05r02	8.7
7	Conducted Emission Test For AC Power Port	ANSI C63.10-2013	6.2



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

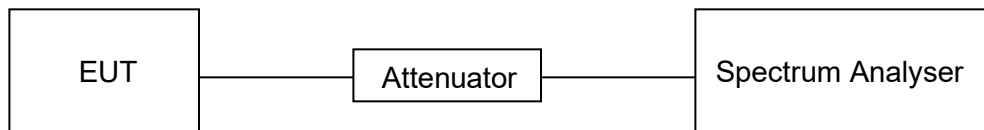
LIMITS

None; for reporting purposes only

PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

TEST RESULTS TABLE

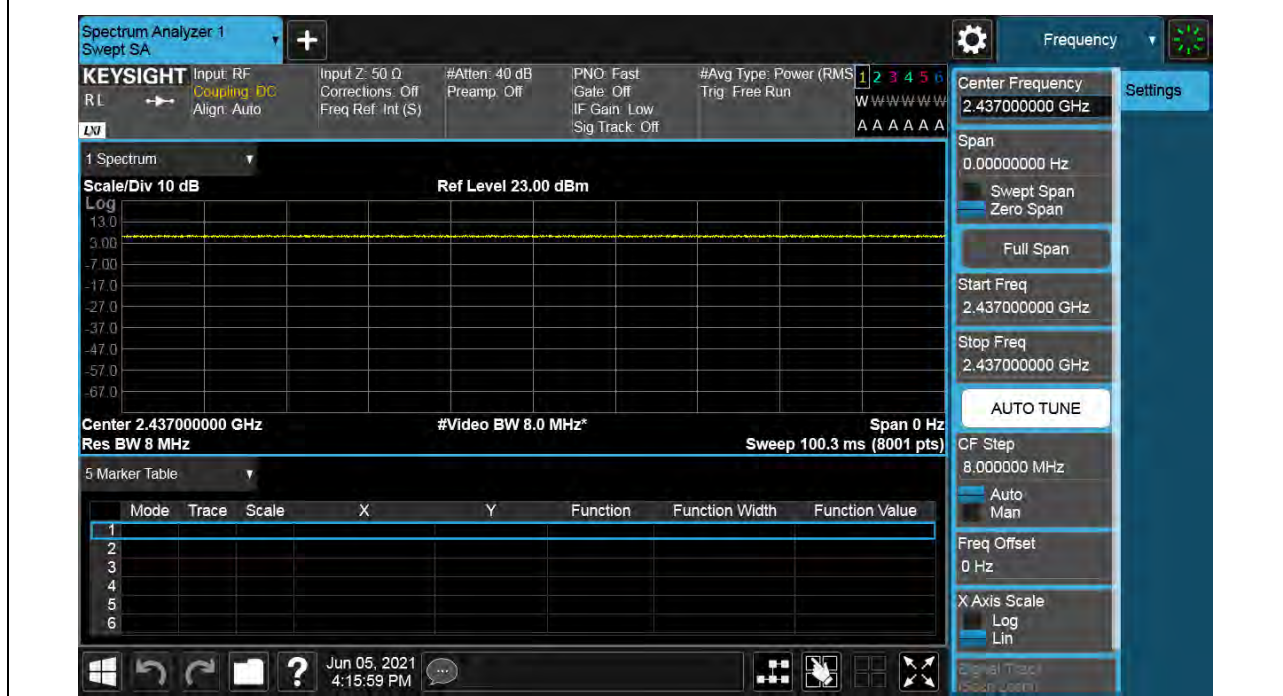
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (kHz)	Final VBW (kHz)
11B	100.3	100.3	1	100%	0	0.01	0.01
11G	100.3	100.3	1	100%	0	0.01	0.01
802.11n HT20	100.3	100.3	1	100%	0	0.01	0.01

Note: 1) Duty Cycle Correction Factor=10log(1/x).
 2) Where: x is Duty Cycle(Linear)
 3) Where: T is On Time (transmit duration)

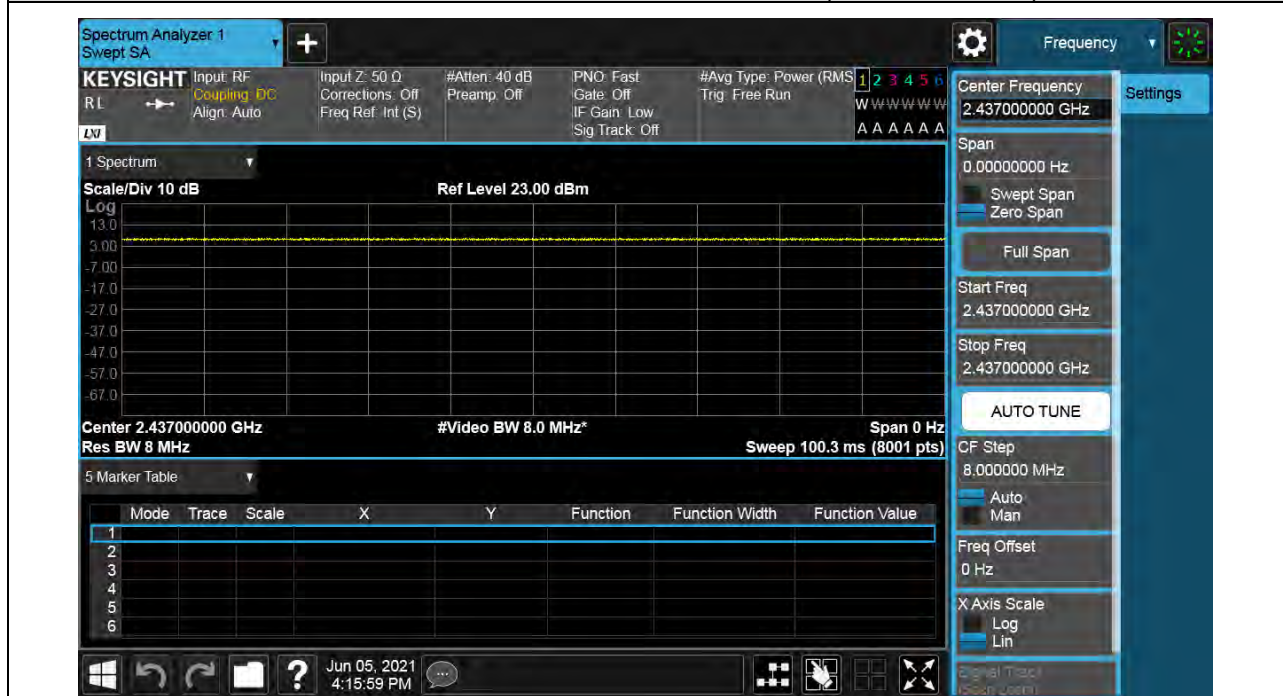


TEST GRAPHS

11B ON TIME AND DUTY CYCLE MID CH (WORSE CASE)

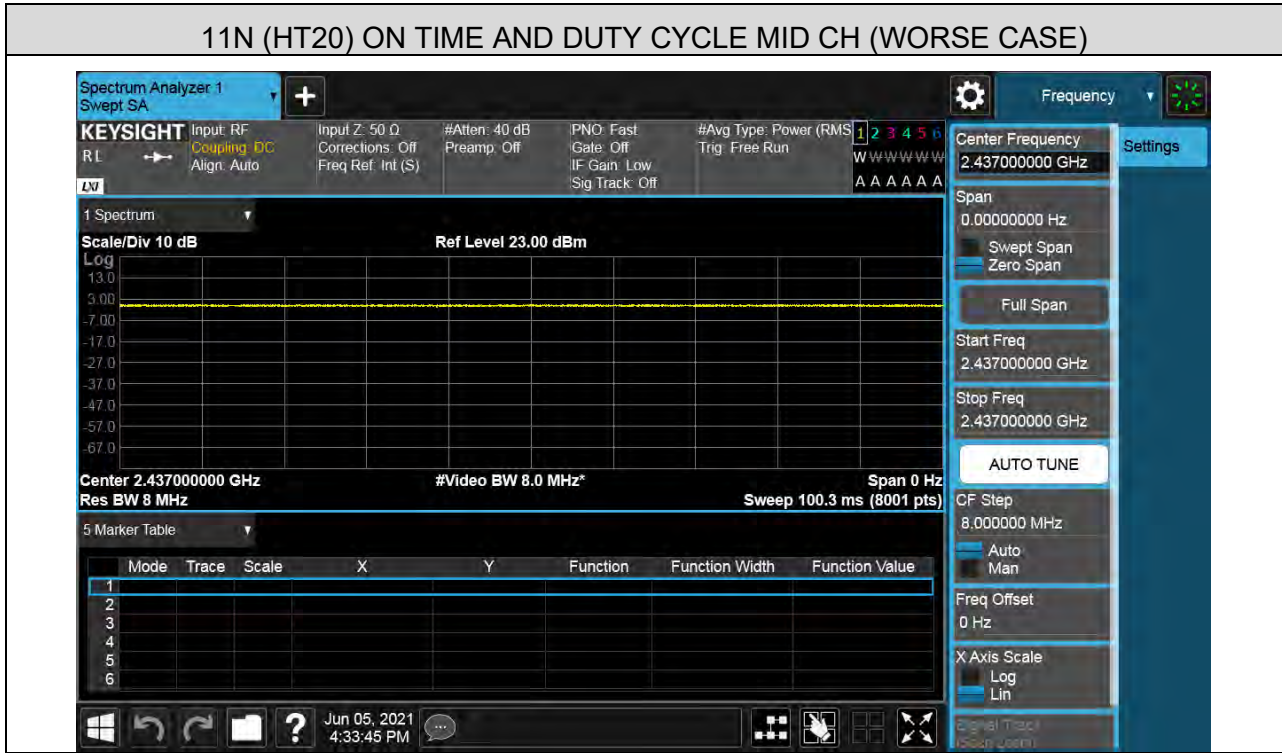


11G ON TIME AND DUTY CYCLE MID CH (WORSE CASE)





11N (HT20) ON TIME AND DUTY CYCLE MID CH (WORSE CASE)





7.2. 6 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6dB Bandwidth	$\geq 500\text{KHz}$	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

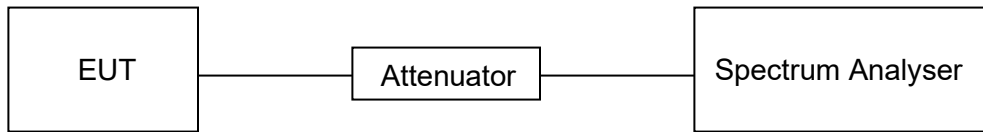
Center Frequency	The centre frequency of the channel under test
Frequency Span	Between 0.5 times and 1.5 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 99 % Occupied Bandwidth: $\geq 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission..



TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

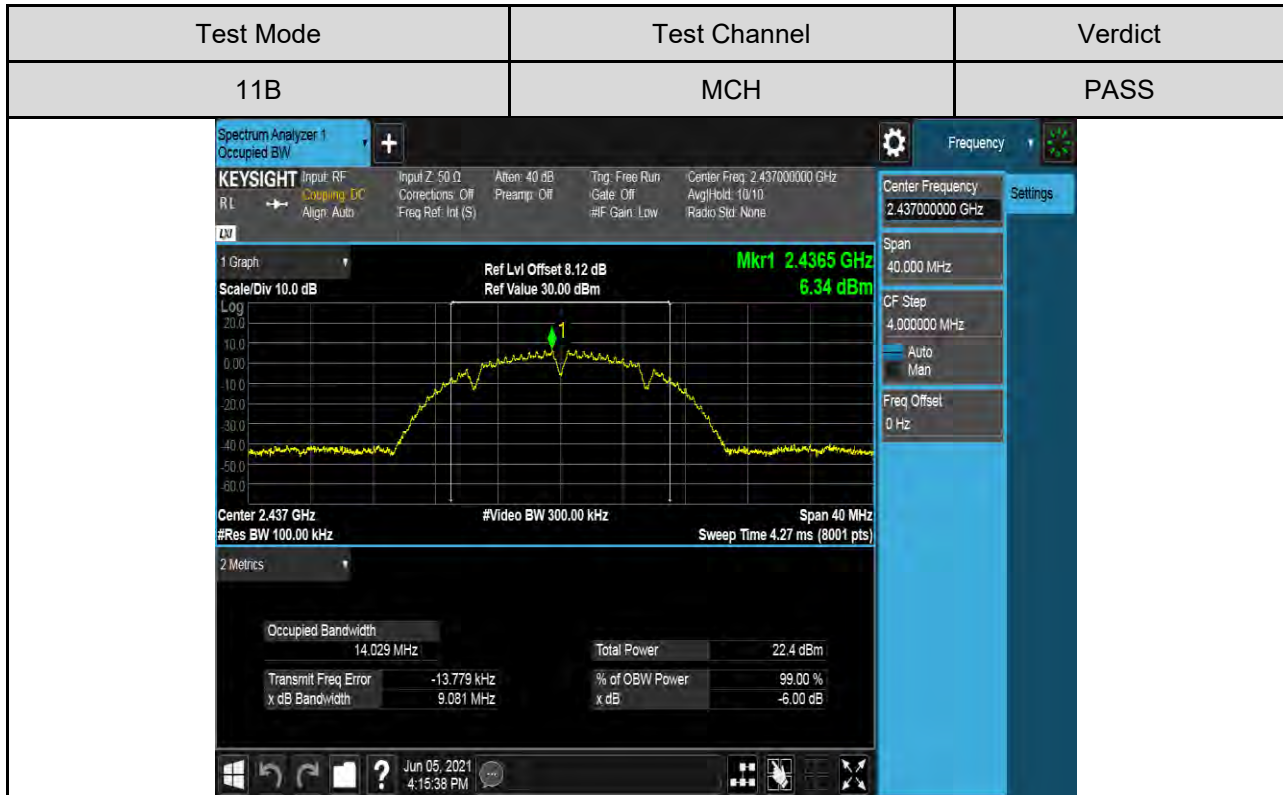
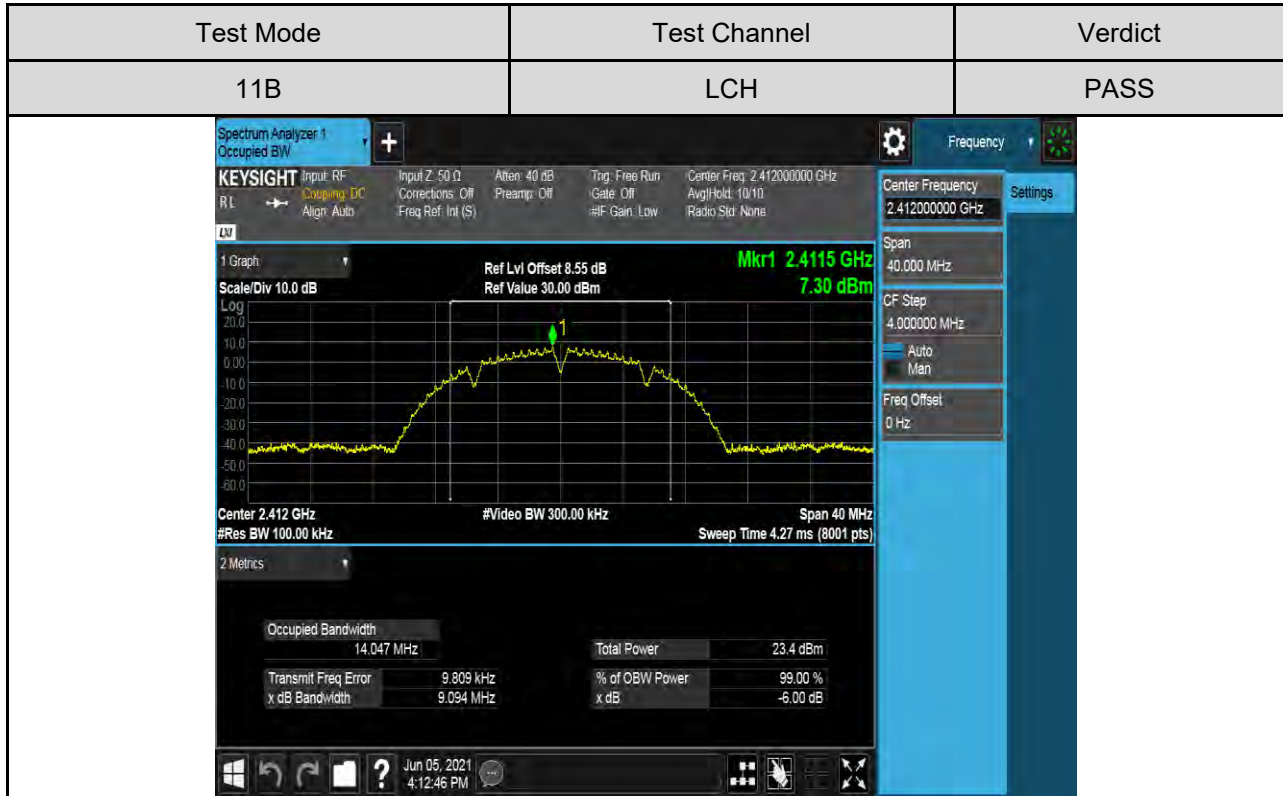
TEST RESULTS TABLE

Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
11B	LCH	9.094	14.059	Pass
	MCH	9.081	14.041	Pass
	HCH	9.090	14.050	Pass
11G	LCH	16.55	16.653	Pass
	MCH	16.55	16.654	Pass
	HCH	16.56	16.665	Pass
11N HT20	LCH	17.78	17.815	Pass
	MCH	17.78	17.805	Pass
	HCH	17.78	17.817	Pass



TEST GRAPHS

6dB Bandwidth





Test Mode	Test Channel	Verdict												
11B	HCH	PASS												
<p>Keysight Spectrum Analyzer 1 - Occupied BW</p> <p>Center Freq: 2.46200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Center Frequency: 2.46200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto/Man Freq Offset: 0 Hz</p> <p>1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 8.51 dB Ref Value 30.00 dBm Mkr1 2.4615 GHz 6.46 dBm</p> <p>Center 2.462 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 40 MHz Sweep Time 4.27 ms (8001 pts)</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>14.036 MHz</td> <td>Total Power</td> <td>22.5 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-13.997 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>9.090 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p>Jun 05, 2021 4:18:19 PM</p>			Occupied Bandwidth	14.036 MHz	Total Power	22.5 dBm	Transmit Freq Error	-13.997 kHz	% of OBW Power	99.00 %	x dB Bandwidth	9.090 MHz	x dB	-6.00 dB
Occupied Bandwidth	14.036 MHz	Total Power	22.5 dBm											
Transmit Freq Error	-13.997 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	9.090 MHz	x dB	-6.00 dB											

Test Mode	Test Channel	Verdict												
11G	LCH	PASS												
<p>Keysight Spectrum Analyzer 1 - Occupied BW</p> <p>Center Freq: 2.41200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Center Frequency: 2.41200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto/Man Freq Offset: 0 Hz</p> <p>1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 8.55 dB Ref Value 30.00 dBm Mkr1 2.4095 GHz -2.06 dBm</p> <p>Center 2.412 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 40 MHz Sweep Time 4.27 ms (8001 pts)</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>16.475 MHz</td> <td>Total Power</td> <td>18.0 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-26.121 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.55 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p>Jun 05, 2021 4:21:22 PM</p>			Occupied Bandwidth	16.475 MHz	Total Power	18.0 dBm	Transmit Freq Error	-26.121 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.55 MHz	x dB	-6.00 dB
Occupied Bandwidth	16.475 MHz	Total Power	18.0 dBm											
Transmit Freq Error	-26.121 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	16.55 MHz	x dB	-6.00 dB											



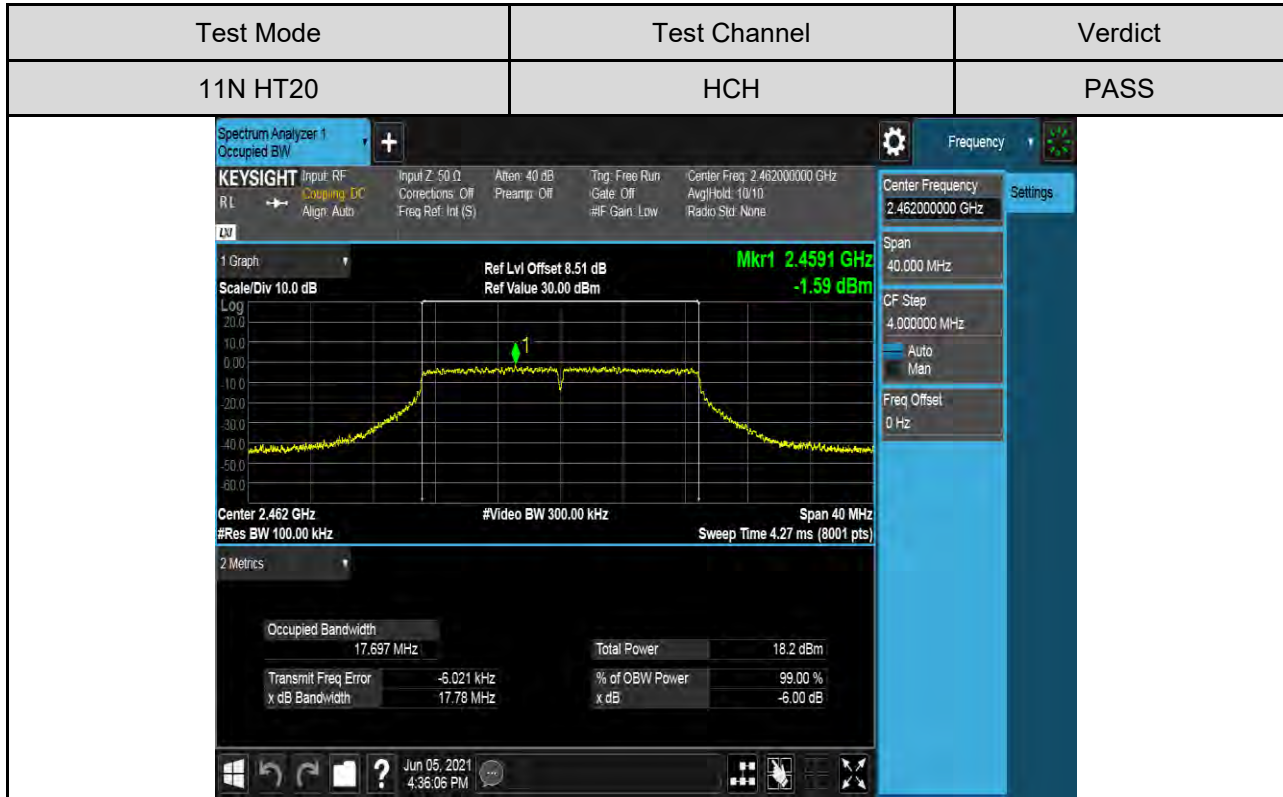
Test Mode	Test Channel	Verdict												
11G	MCH	PASS												
<p>Keysight Spectrum Analyzer 1 Occupied BW</p> <p>Center Freq: 2.43700000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Mkr1: 2.4386 GHz, -2.42 dBm</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>16.479 MHz</td> <td>Total Power</td> <td>17.8 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-28.286 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.55 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	16.479 MHz	Total Power	17.8 dBm	Transmit Freq Error	-28.286 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.55 MHz	x dB	-6.00 dB
Occupied Bandwidth	16.479 MHz	Total Power	17.8 dBm											
Transmit Freq Error	-28.286 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	16.55 MHz	x dB	-6.00 dB											

Test Mode	Test Channel	Verdict												
11G	HCH	PASS												
<p>Keysight Spectrum Analyzer 1 Occupied BW</p> <p>Center Freq: 2.46200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Mkr1: 2.4595 GHz, -1.91 dBm</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>16.479 MHz</td> <td>Total Power</td> <td>18.2 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-28.255 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.56 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	16.479 MHz	Total Power	18.2 dBm	Transmit Freq Error	-28.255 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.56 MHz	x dB	-6.00 dB
Occupied Bandwidth	16.479 MHz	Total Power	18.2 dBm											
Transmit Freq Error	-28.255 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	16.56 MHz	x dB	-6.00 dB											



Test Mode	Test Channel	Verdict												
11N HT20	LCH	PASS												
<p>Keysight Spectrum Analyzer 1 - Occupied BW</p> <p>Center Freq: 2.41200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz #Res BW: 100.00 kHz #Video BW: 300.00 kHz Sweep Time: 4.27 ms (8001 pts)</p> <p>Mkr1 2.4091 GHz -1.66 dBm</p> <p>Ref Lvl Offset 8.55 dB Ref Value 30.00 dBm</p> <p>Scale/Div 10.0 dB</p> <p>Center 2.412 GHz</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>17.691 MHz</td> <td>Total Power</td> <td>18.0 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-1.821 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.78 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p>Jun 05, 2021 4:30:20 PM</p>			Occupied Bandwidth	17.691 MHz	Total Power	18.0 dBm	Transmit Freq Error	-1.821 kHz	% of OBW Power	99.00 %	x dB Bandwidth	17.78 MHz	x dB	-6.00 dB
Occupied Bandwidth	17.691 MHz	Total Power	18.0 dBm											
Transmit Freq Error	-1.821 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	17.78 MHz	x dB	-6.00 dB											

Test Mode	Test Channel	Verdict												
11N HT20	MCH	PASS												
<p>Keysight Spectrum Analyzer 1 - Occupied BW</p> <p>Center Freq: 2.43700000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz #Res BW: 100.00 kHz #Video BW: 300.00 kHz Sweep Time: 4.27 ms (8001 pts)</p> <p>Mkr1 2.4341 GHz -1.89 dBm</p> <p>Ref Lvl Offset 8.12 dB Ref Value 30.00 dBm</p> <p>Scale/Div 10.0 dB</p> <p>Center 2.437 GHz</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>17.690 MHz</td> <td>Total Power</td> <td>17.8 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-6.561 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.78 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p>Jun 05, 2021 4:33:24 PM</p>			Occupied Bandwidth	17.690 MHz	Total Power	17.8 dBm	Transmit Freq Error	-6.561 kHz	% of OBW Power	99.00 %	x dB Bandwidth	17.78 MHz	x dB	-6.00 dB
Occupied Bandwidth	17.690 MHz	Total Power	17.8 dBm											
Transmit Freq Error	-6.561 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	17.78 MHz	x dB	-6.00 dB											





99% Bandwidth

Test Mode	Test Channel	Verdict												
11B	LCH	PASS												
<p>Keysight Spectrum Analyzer 1 Occupied BW</p> <p>Center Freq: 2.41200000 GHz Span: 40.000 MHz #Res BW: 200.00 kHz #Video BW: 620.00 kHz Sweep Time: 1.07 ms (8001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>14.059 MHz</td> <td>Total Power</td> <td>21.8 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>15.267 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>9.141 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	14.059 MHz	Total Power	21.8 dBm	Transmit Freq Error	15.267 kHz	% of OBW Power	99.00 %	x dB Bandwidth	9.141 MHz	x dB	-6.00 dB
Occupied Bandwidth	14.059 MHz	Total Power	21.8 dBm											
Transmit Freq Error	15.267 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	9.141 MHz	x dB	-6.00 dB											

Test Mode	Test Channel	Verdict												
11B	MCH	PASS												
<p>Keysight Spectrum Analyzer 1 Occupied BW</p> <p>Center Freq: 2.43700000 GHz Span: 40.000 MHz #Res BW: 200.00 kHz #Video BW: 620.00 kHz Sweep Time: 1.07 ms (8001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>14.041 MHz</td> <td>Total Power</td> <td>20.9 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-2.434 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>9.132 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	14.041 MHz	Total Power	20.9 dBm	Transmit Freq Error	-2.434 kHz	% of OBW Power	99.00 %	x dB Bandwidth	9.132 MHz	x dB	-6.00 dB
Occupied Bandwidth	14.041 MHz	Total Power	20.9 dBm											
Transmit Freq Error	-2.434 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	9.132 MHz	x dB	-6.00 dB											



Test Mode	Test Channel	Verdict												
11B	HCH	PASS												
<p>Center Frequency: 2.46200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz #Res BW: 200.00 kHz #Video BW: 620.00 kHz Sweep Time: 1.07 ms (8001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>14.050 MHz</td> <td>Total Power</td> <td>21.0 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-3.097 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>9.131 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	14.050 MHz	Total Power	21.0 dBm	Transmit Freq Error	-3.097 kHz	% of OBW Power	99.00 %	x dB Bandwidth	9.131 MHz	x dB	-6.00 dB
Occupied Bandwidth	14.050 MHz	Total Power	21.0 dBm											
Transmit Freq Error	-3.097 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	9.131 MHz	x dB	-6.00 dB											

Test Mode	Test Channel	Verdict												
11G	LCH	PASS												
<p>Center Frequency: 2.41200000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz #Res BW: 200.00 kHz #Video BW: 620.00 kHz Sweep Time: 1.07 ms (8001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>16.653 MHz</td> <td>Total Power</td> <td>18.3 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-72.254 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.60 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	16.653 MHz	Total Power	18.3 dBm	Transmit Freq Error	-72.254 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.60 MHz	x dB	-6.00 dB
Occupied Bandwidth	16.653 MHz	Total Power	18.3 dBm											
Transmit Freq Error	-72.254 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	16.60 MHz	x dB	-6.00 dB											



Test Mode	Test Channel	Verdict												
11G	MCH	PASS												
<p>Center Frequency: 2.437000000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto Man Freq Offset: 0 Hz</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>16.654 MHz</td> <td>Total Power</td> <td>18.2 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-79.989 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.48 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	16.654 MHz	Total Power	18.2 dBm	Transmit Freq Error	-79.989 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.48 MHz	x dB	-6.00 dB
Occupied Bandwidth	16.654 MHz	Total Power	18.2 dBm											
Transmit Freq Error	-79.989 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	16.48 MHz	x dB	-6.00 dB											

Test Mode	Test Channel	Verdict												
11G	HCH	PASS												
<p>Center Frequency: 2.462000000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto Man Freq Offset: 0 Hz</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>16.665 MHz</td> <td>Total Power</td> <td>18.6 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-83.274 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.39 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>			Occupied Bandwidth	16.665 MHz	Total Power	18.6 dBm	Transmit Freq Error	-83.274 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.39 MHz	x dB	-6.00 dB
Occupied Bandwidth	16.665 MHz	Total Power	18.6 dBm											
Transmit Freq Error	-83.274 kHz	% of OBW Power	99.00 %											
x dB Bandwidth	16.39 MHz	x dB	-6.00 dB											



Test Mode	Test Channel	Verdict
11N HT20	LCH	PASS

Test Mode	Test Channel	Verdict
11N HT20	MCH	PASS





7.3. CONDUCTED OUTPUT POWER

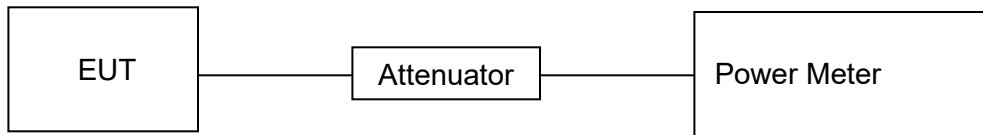
LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.
Measure the power of each channel.
Peak Detector use for Peak result.
AVG Detector use for AVG result.

TEST SETUP





TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

TEST RESULTS TABLE

Test Mode	Test Channel	Maximum Conducted Output Power (AV)	LIMIT
		dBm	dBm
11B	LCH	16.21	30
	MCH	15.52	30
	HCH	15.65	30
11G	LCH	12.00	30
	MCH	11.80	30
	HCH	12.16	30
11n HT20	LCH	12.02	30
	MCH	11.79	30
	HCH	12.14	30

7.4. POWER SPECTRAL DENSITY

LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC §15.247 (e)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

TEST PROCEDURE

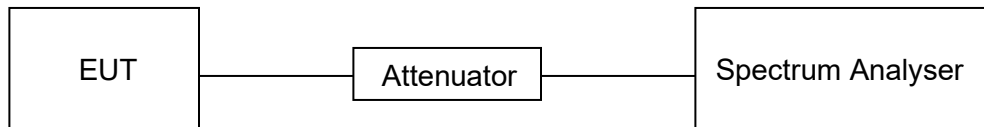
Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP





TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

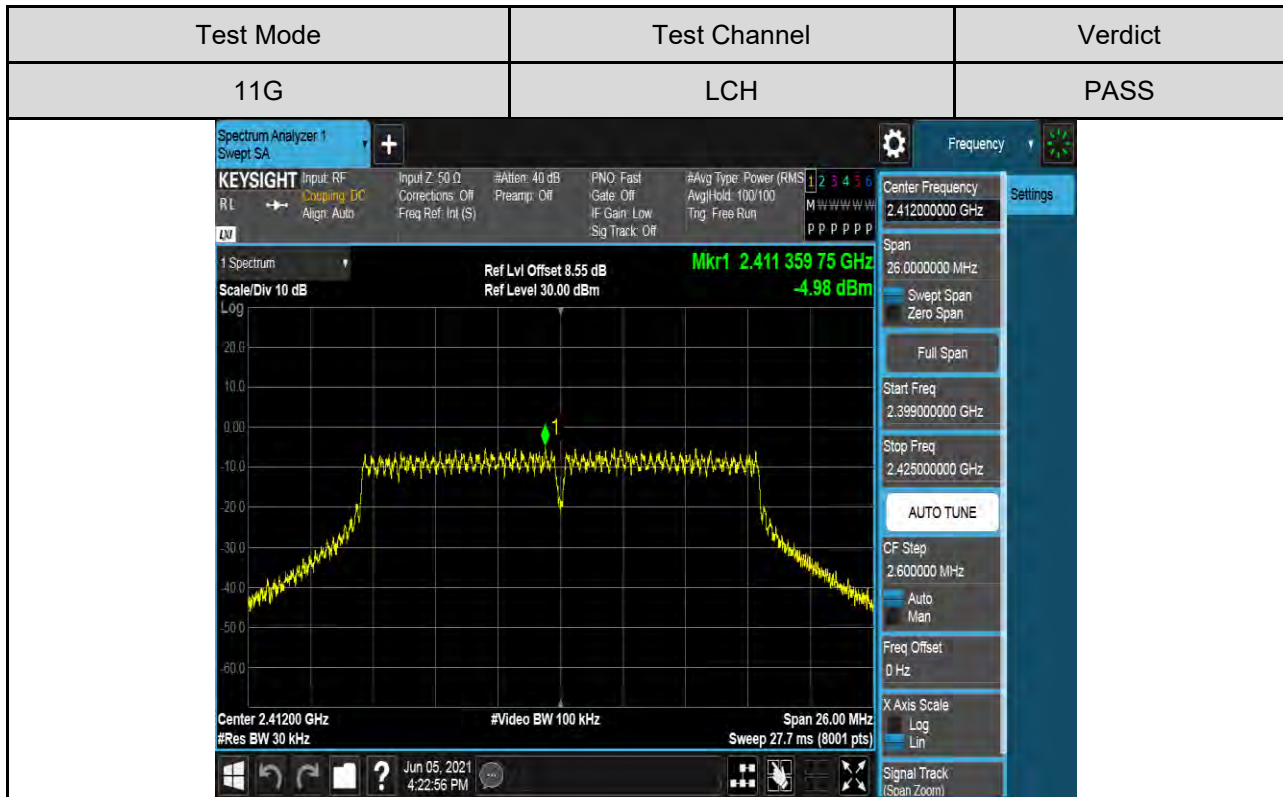
TEST RESULTS TABLE

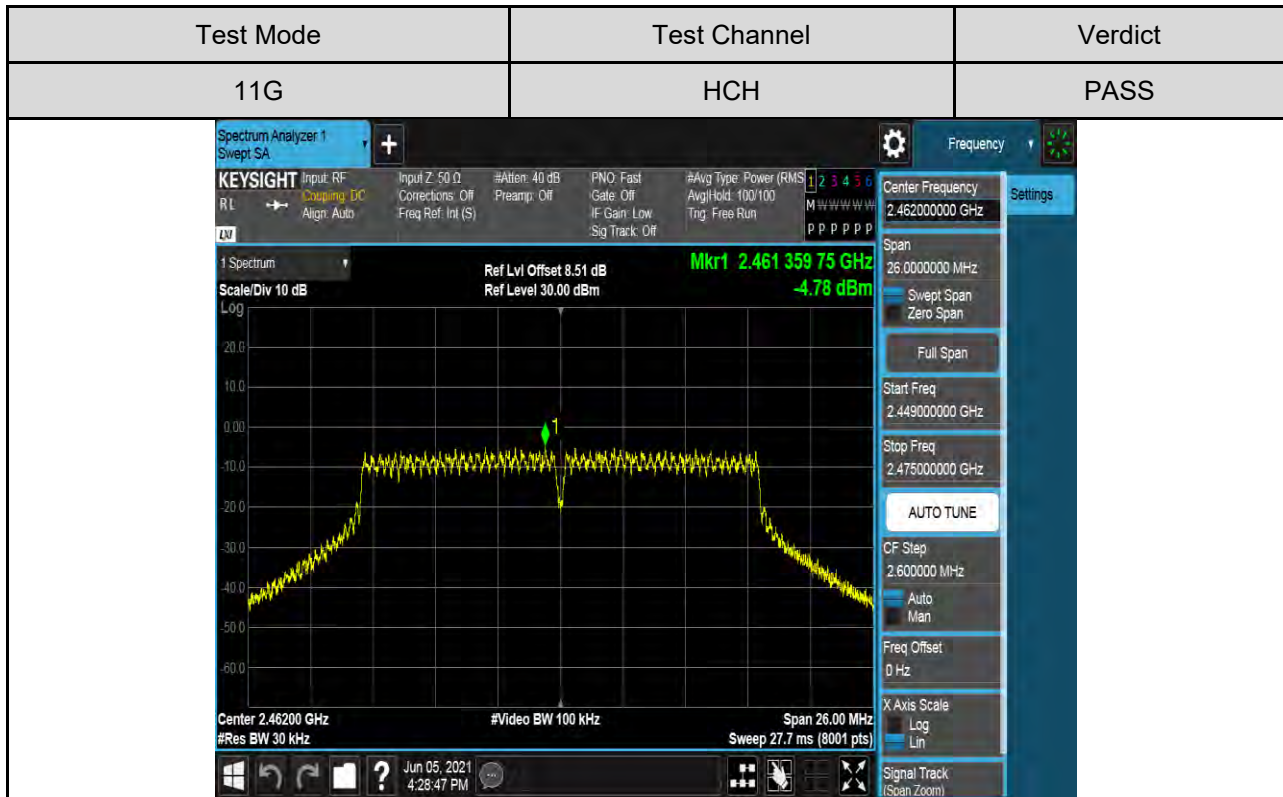
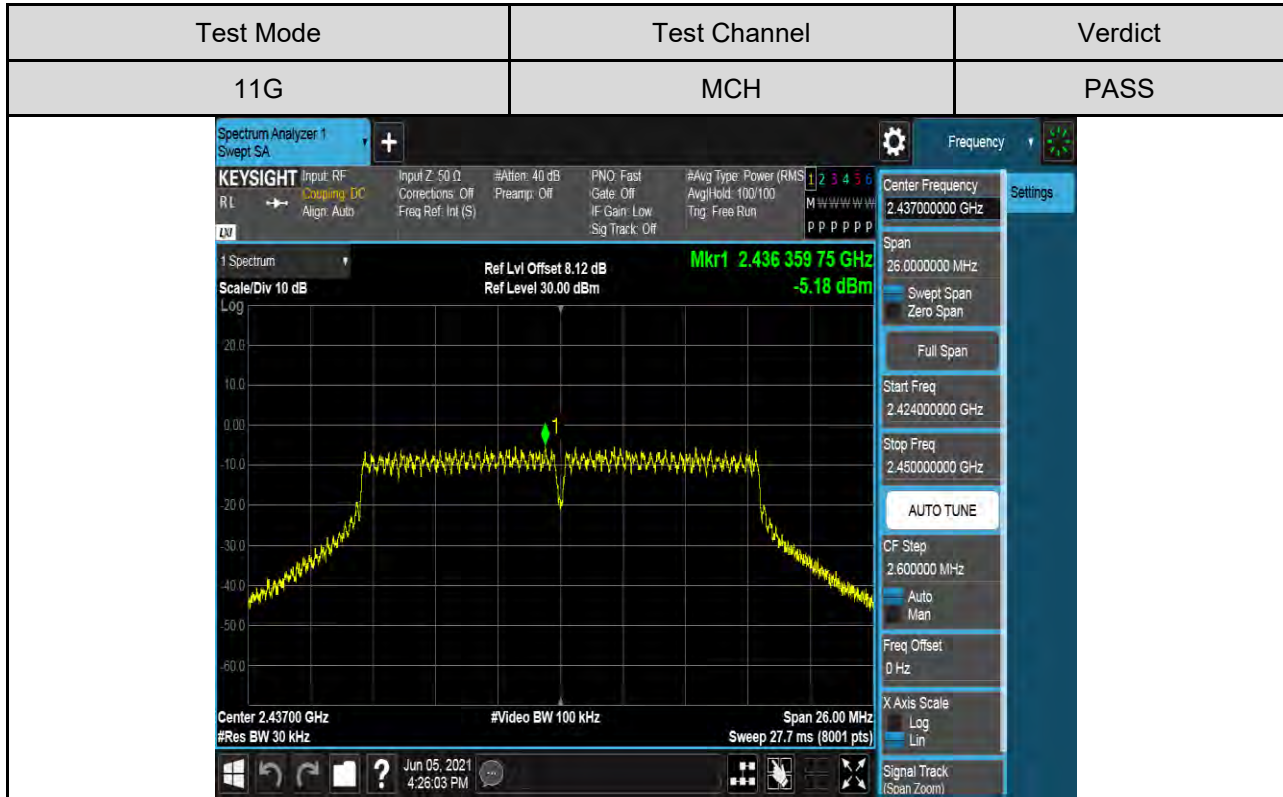
Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30kHz)	Result
11B	LCH	1.68	Pass
	MCH	1.07	Pass
	HCH	1.17	Pass
11G	LCH	-4.98	Pass
	MCH	-5.18	Pass
	HCH	-4.78	Pass
11n HT20	LCH	-4.28	Pass
	MCH	-4.52	Pass
	HCH	-4.26	Pass

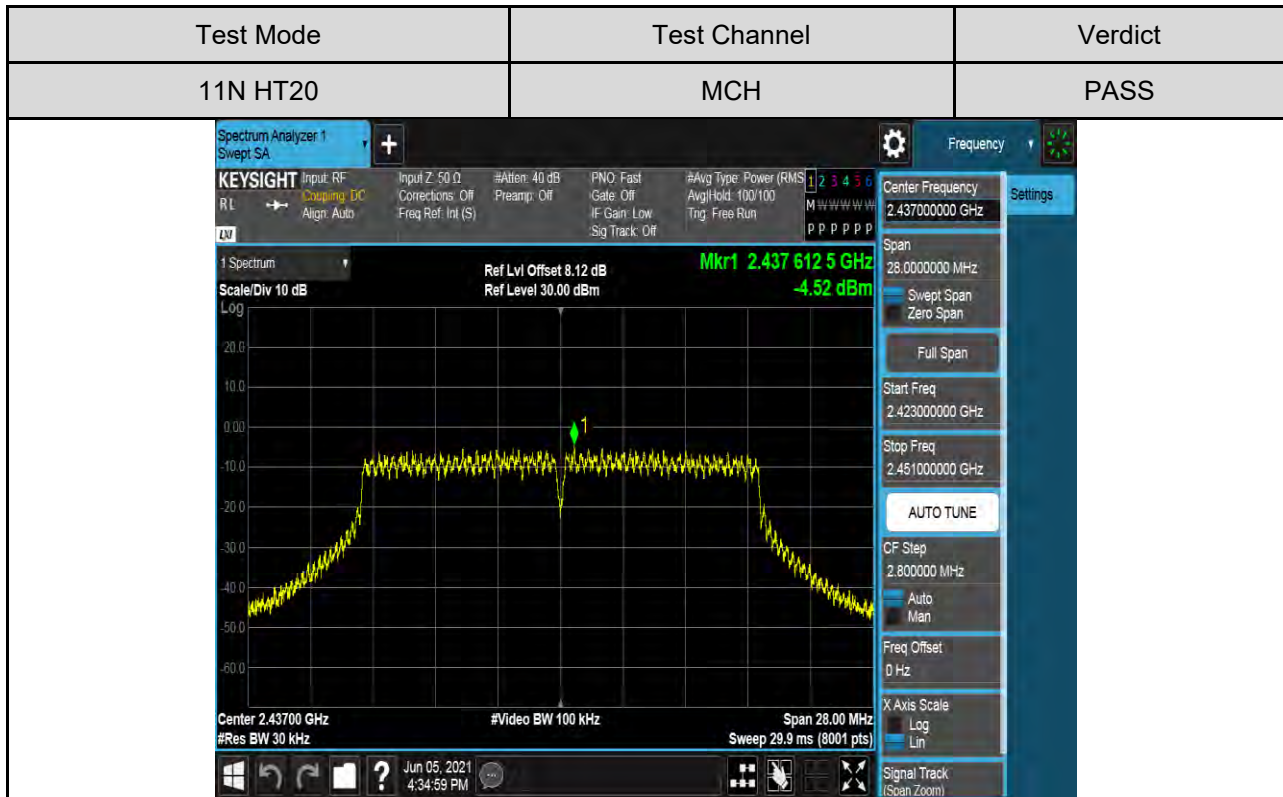
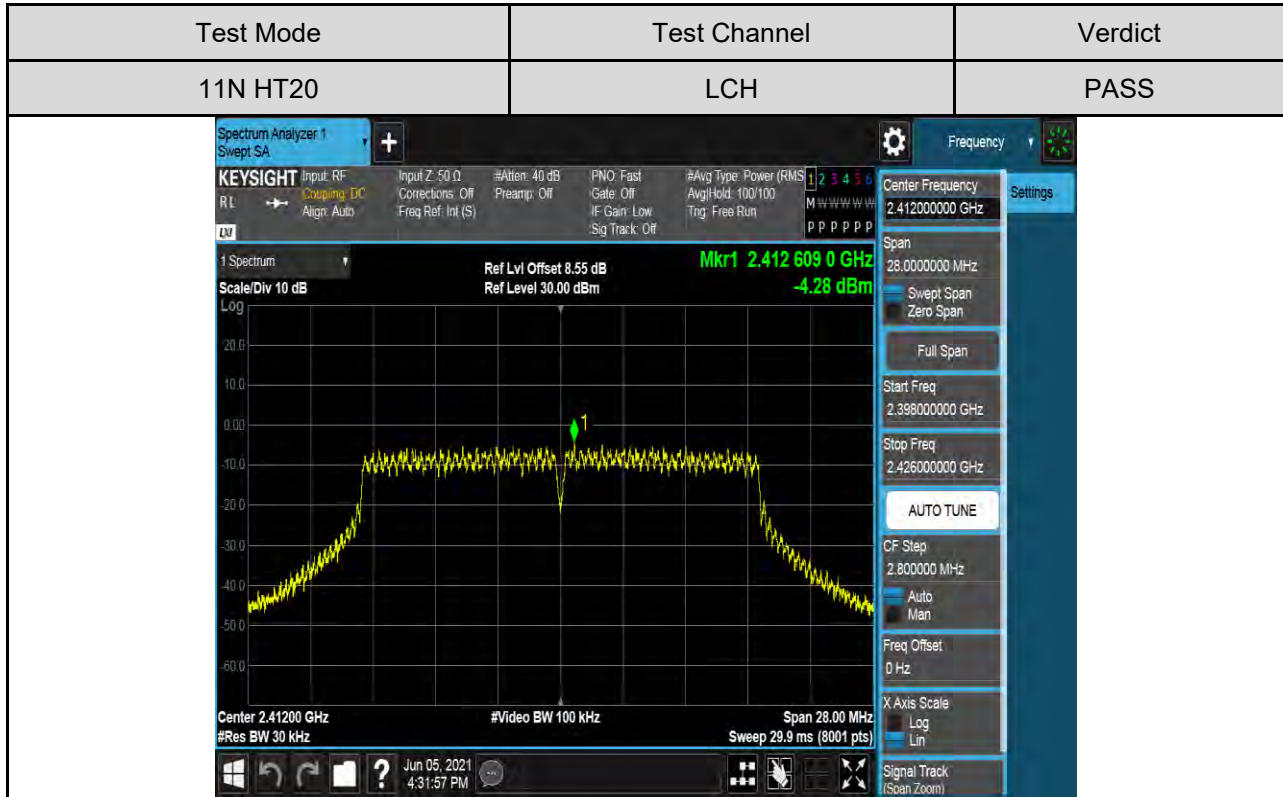


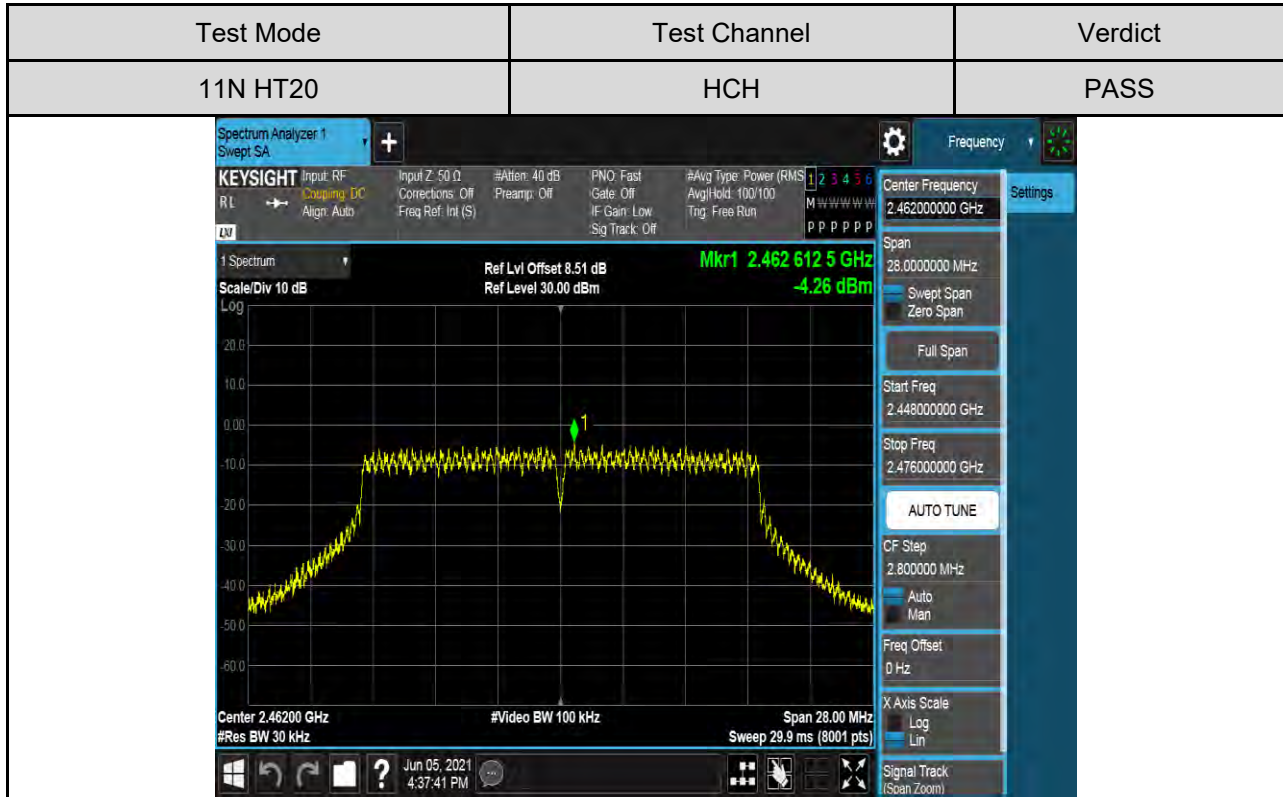
TEST GRAPHS











7.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

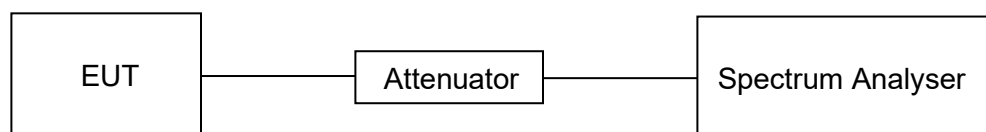
settings:

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

TEST SETUP





TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

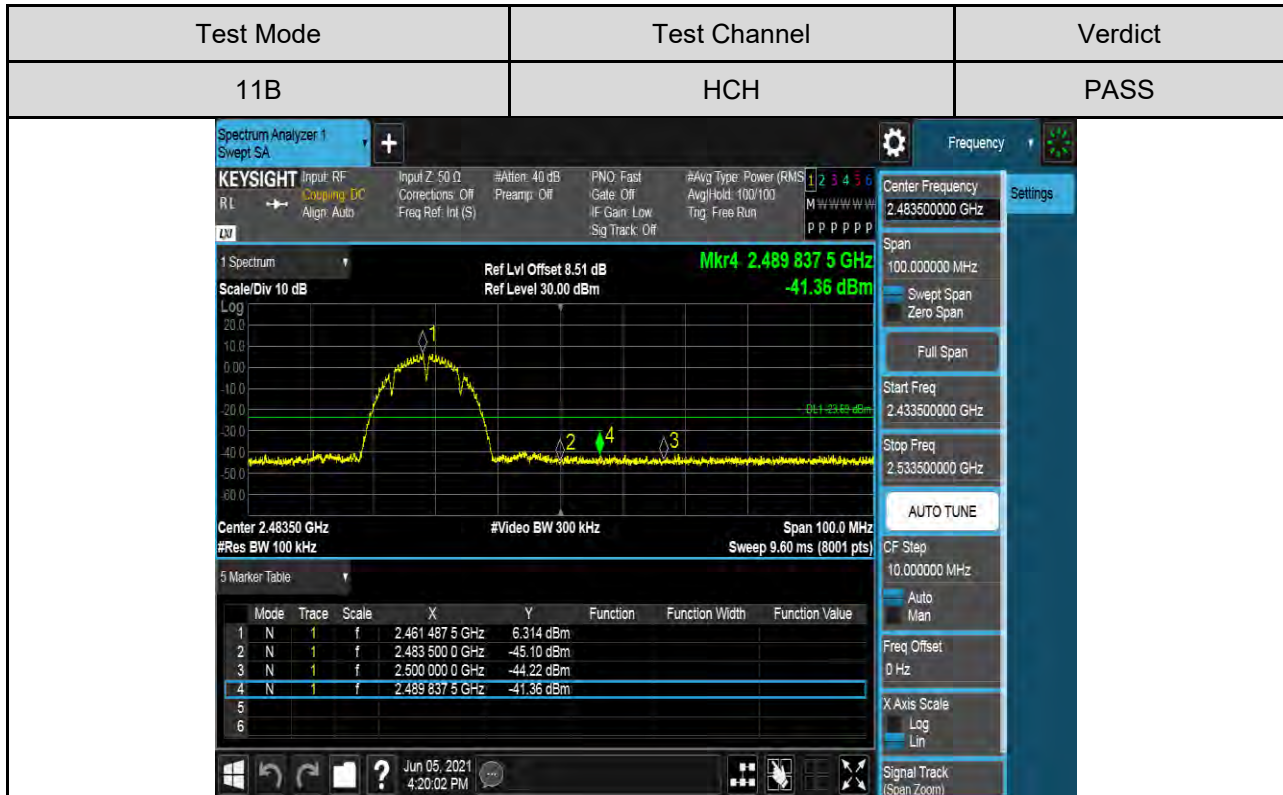
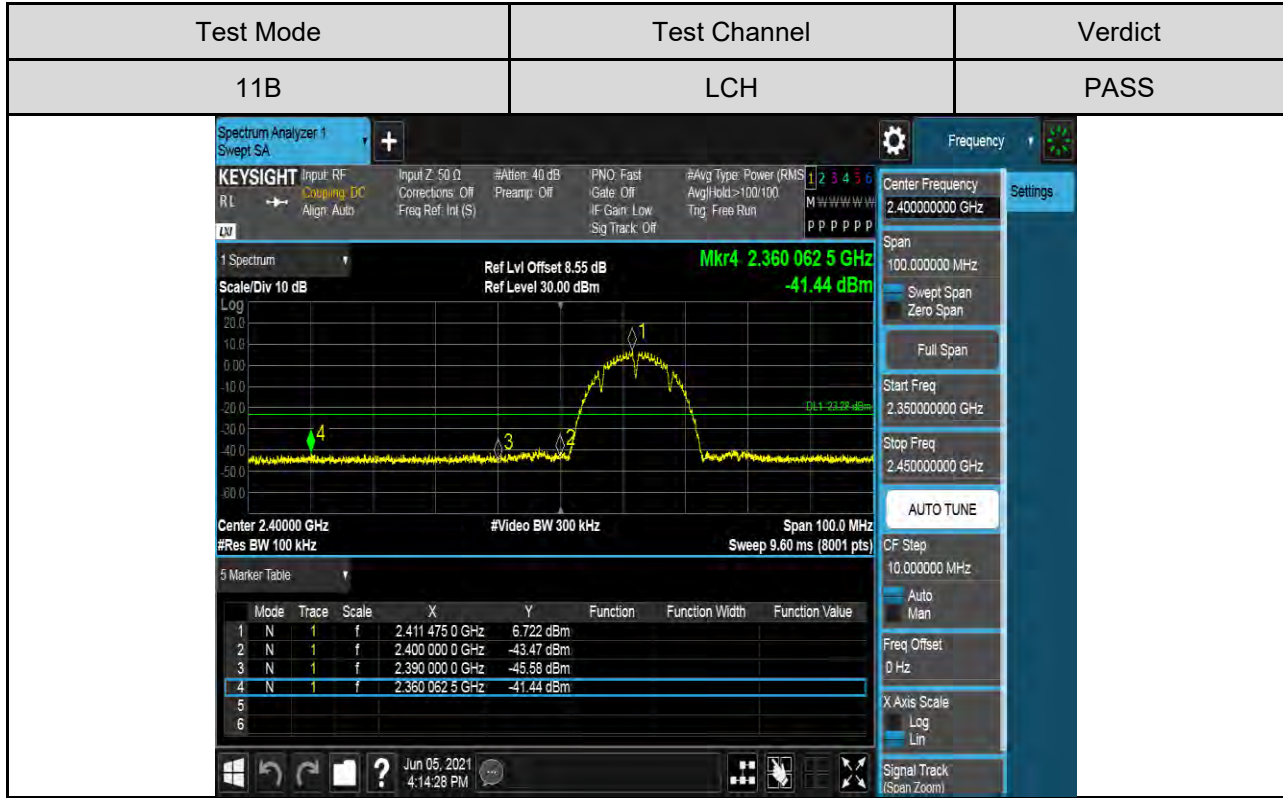
PART I: CONDUCTED BANDEDGE

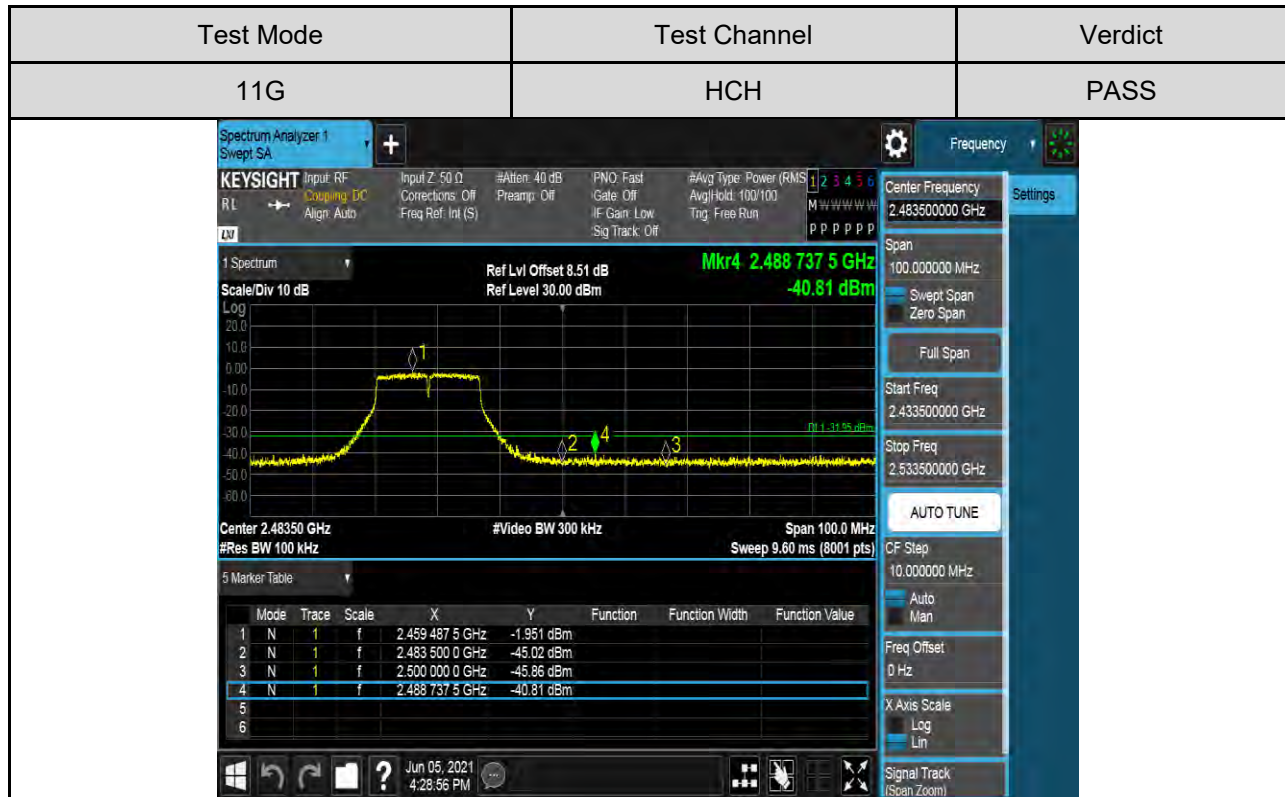
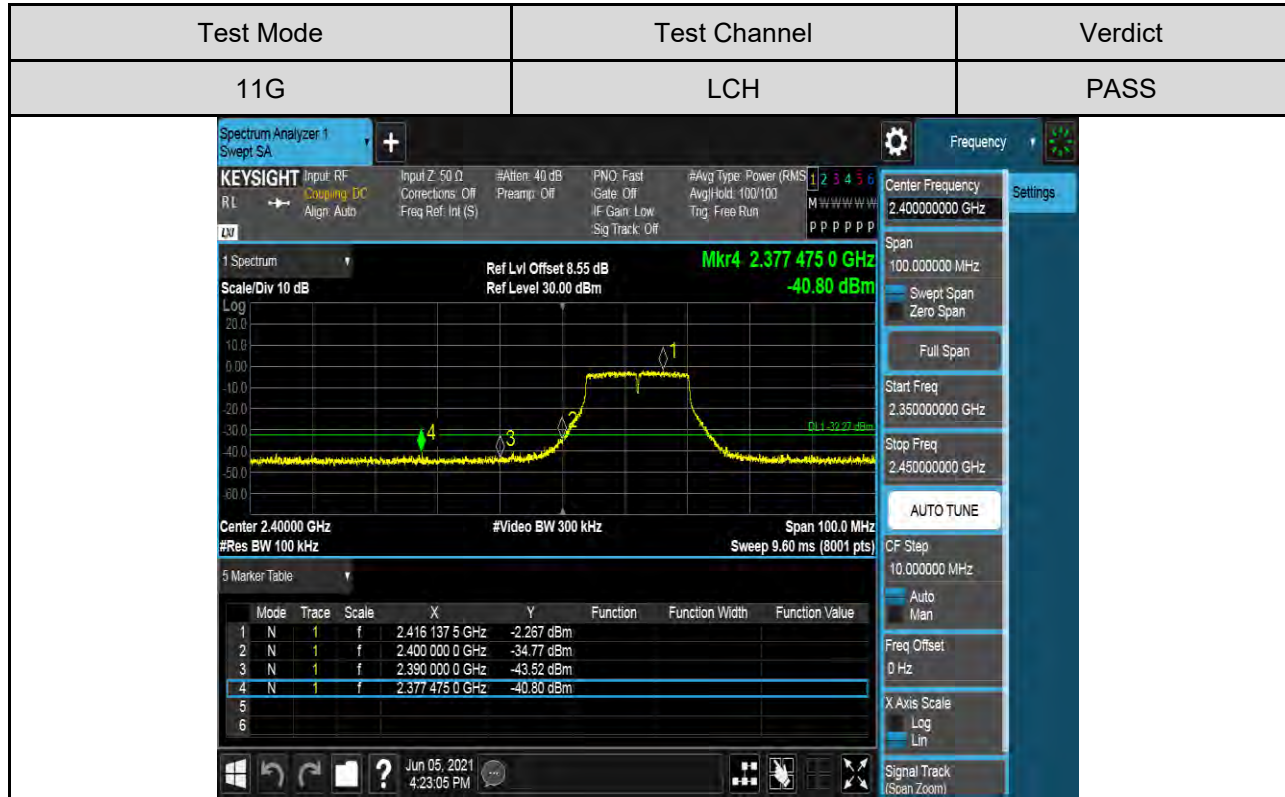
TEST RESULTS TABLE

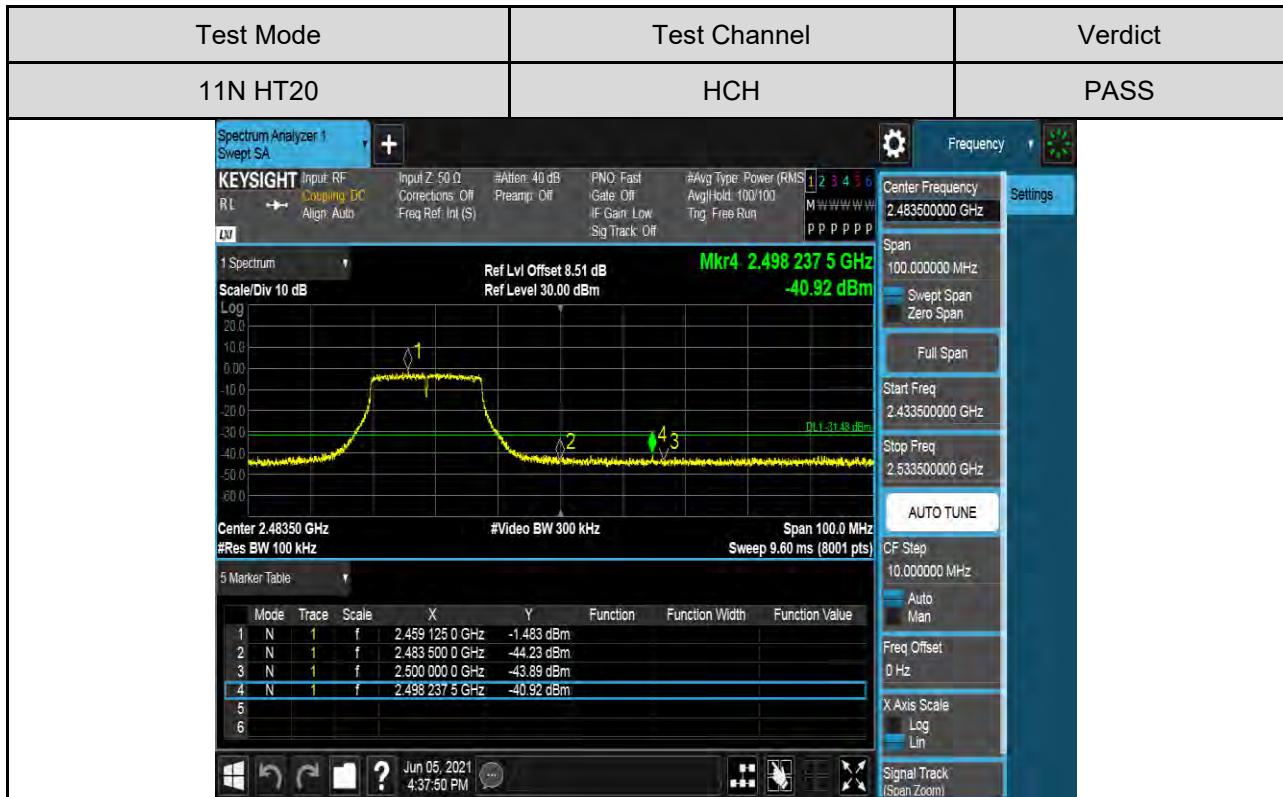
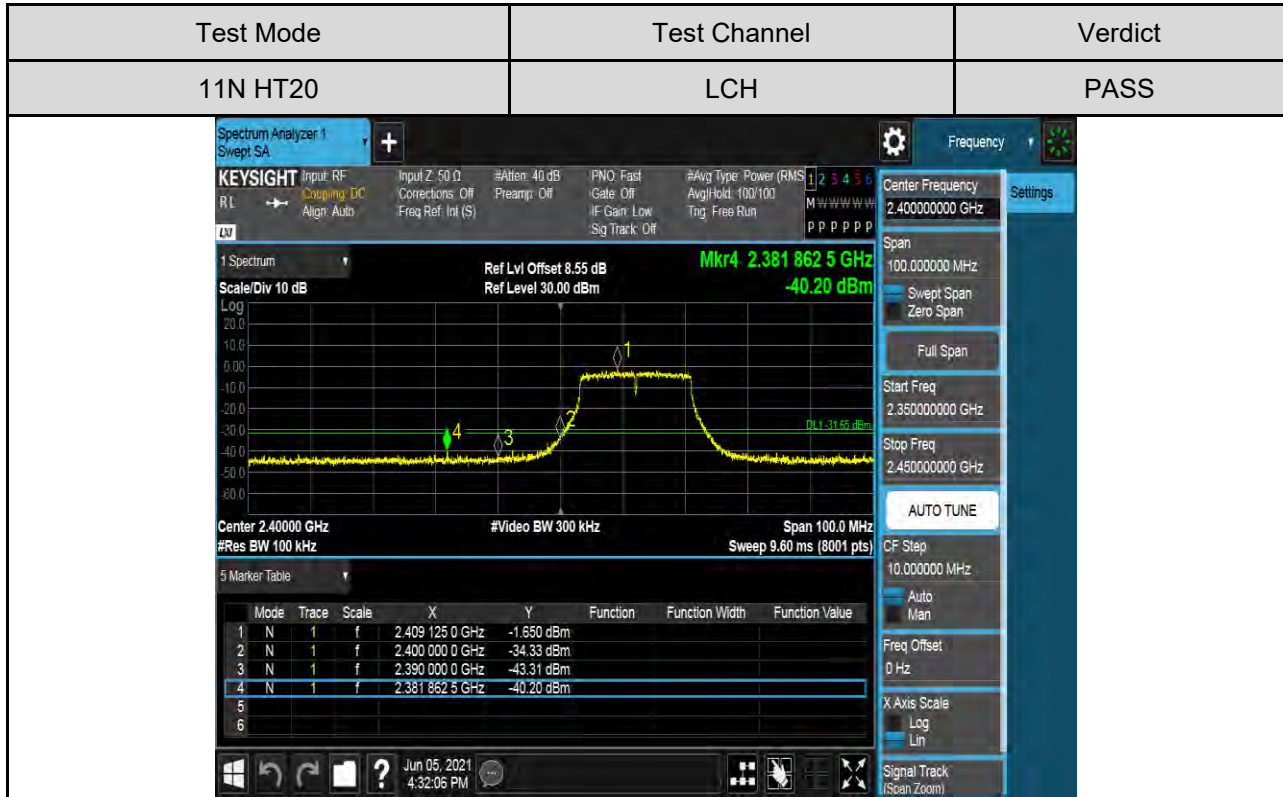
Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.722	-41.44	-23.28	PASS
	HCH	6.314	-41.36	-23.69	PASS
11G	LCH	-2.267	-40.80	-32.27	PASS
	HCH	-1.951	-40.81	-31.95	PASS
11N HT20	LCH	-1.650	-40.20	-31.65	PASS
	HCH	-1.483	-40.92	-31.48	PASS



TEST GRAPHS









PART II: CONDUCTED EMISSION

TEST RESULTS TABLE

Test Mode	Channel	Pref(dBm)	Puw(dBm)	Verdict
11B	LCH	6.63	<Limit	PASS
	MCH	6.08	<Limit	PASS
	HCH	6.25	<Limit	PASS
11G	LCH	-2.08	<Limit	PASS
	MCH	-2.24	<Limit	PASS
	HCH	-1.98	<Limit	PASS
11N HT20	LCH	-1.58	<Limit	PASS
	MCH	-1.93	<Limit	PASS
	HCH	-2.16	<Limit	PASS

TEST GRAPHS

Test Mode	Channel	Verdict
11B	LCH	PASS

Pref test Plot





Puw test Plot

LCH SPURIOUS EMISSION 30MHz~10GHz



LCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11B	MCH	PASS

Pref test Plot





Puw test Plot

MCH SPURIOUS EMISSION 30MHz~10GHz



MCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11B	HCH	PASS

Pref test Plot





Puw test Plot

HCH SPURIOUS EMISSION 30MHz~10GHz



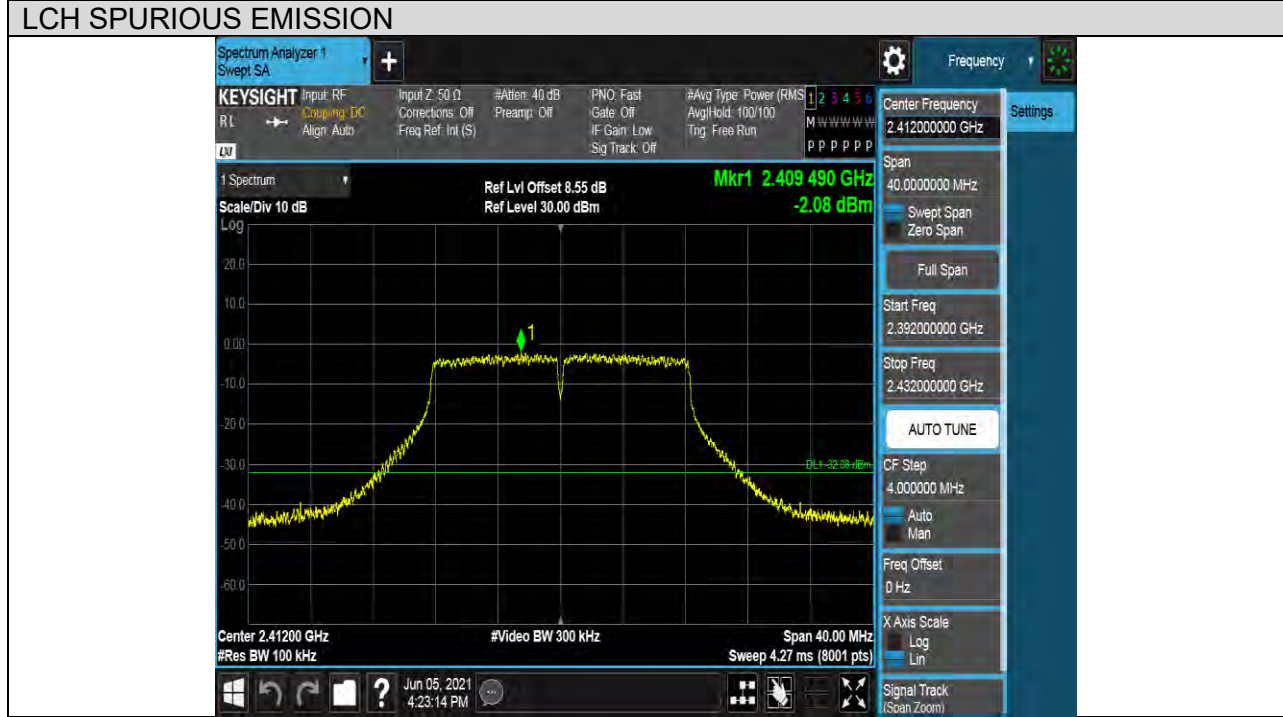
HCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11G	LCH	PASS

Pref test Plot





Puw test Plot

LCH SPURIOUS EMISSION 30MHz~10GHz



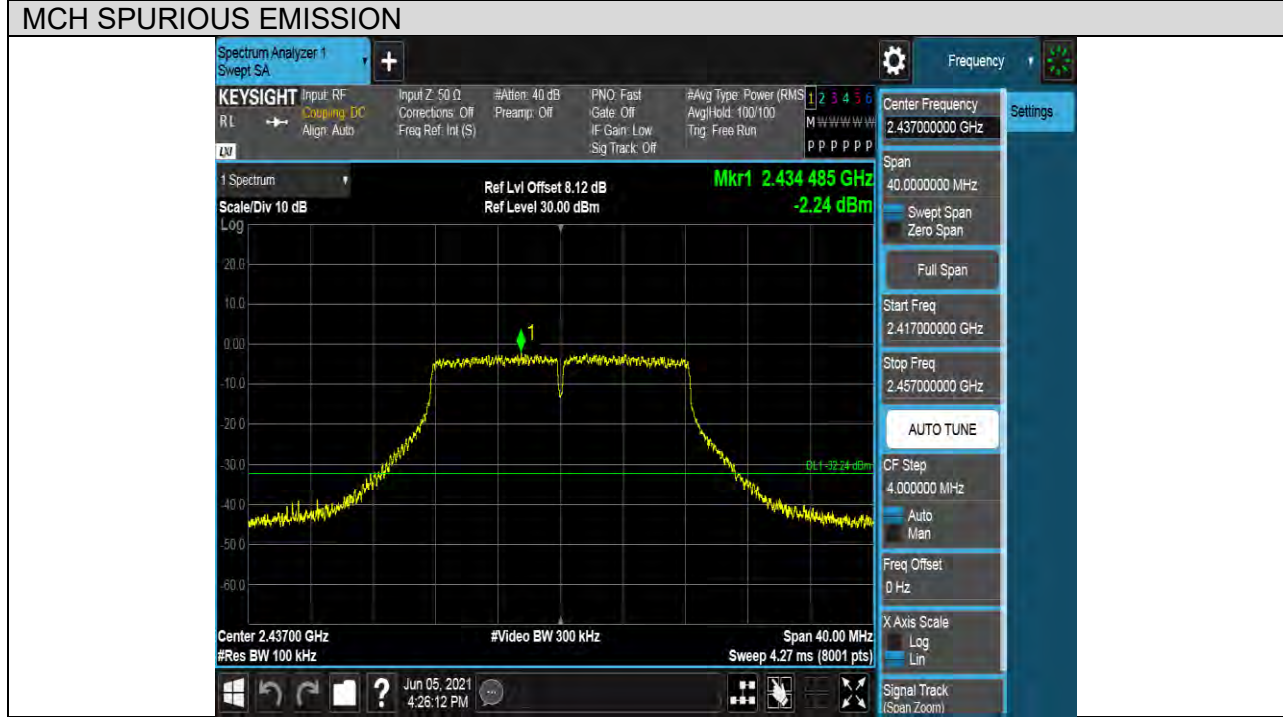
LCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11G	MCH	PASS

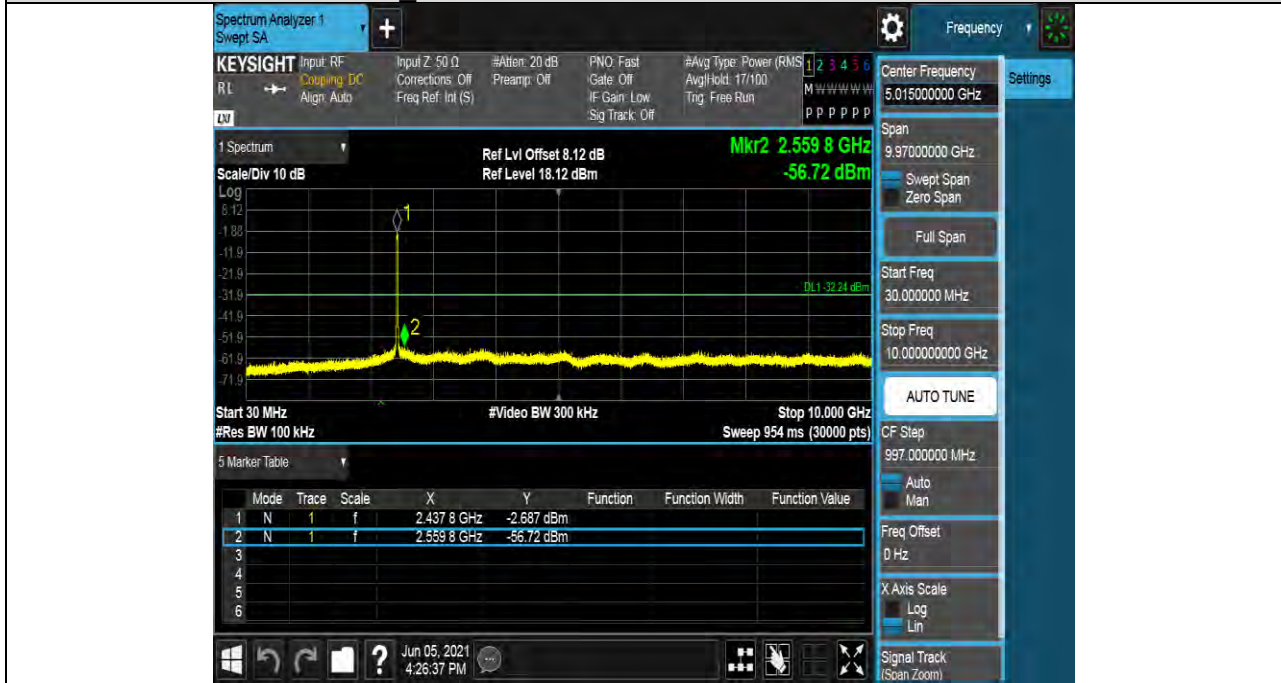
Pref test Plot





Puw test Plot

MCH SPURIOUS EMISSION 30MHz~10GHz



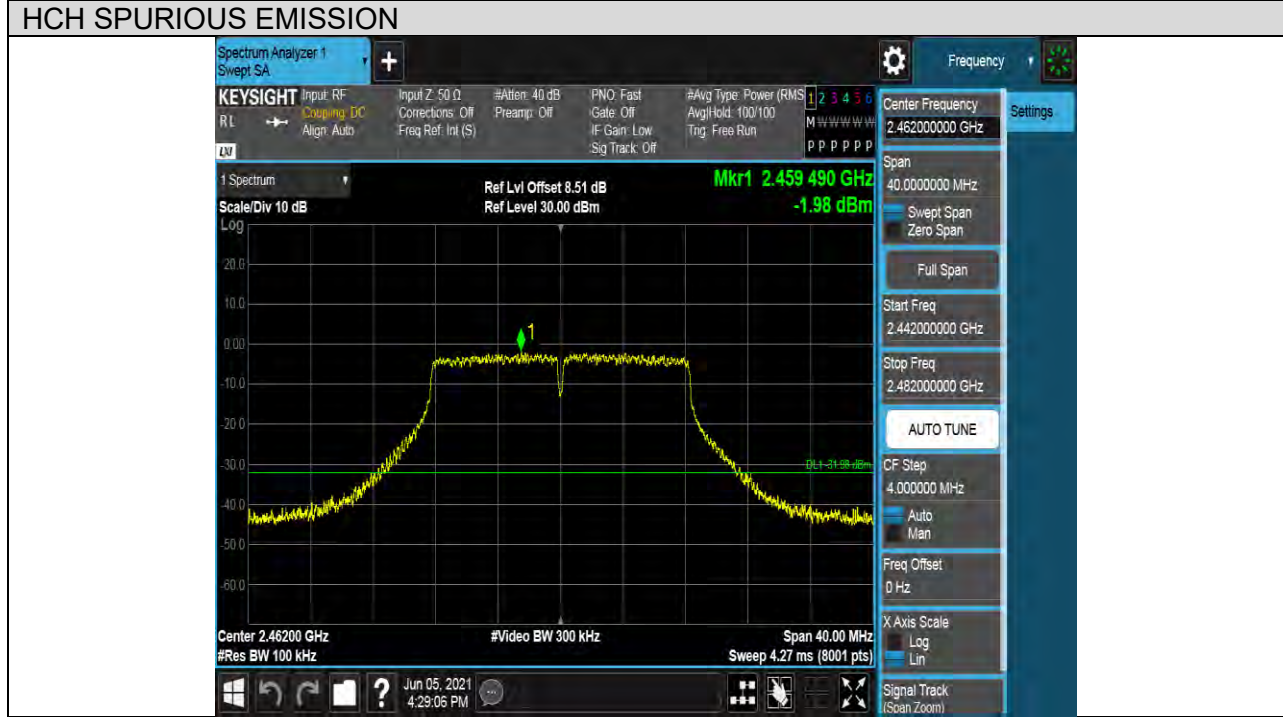
MCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11G	HCH	PASS

Pref test Plot





Puw test Plot

HCH SPURIOUS EMISSION 30MHz~10GHz



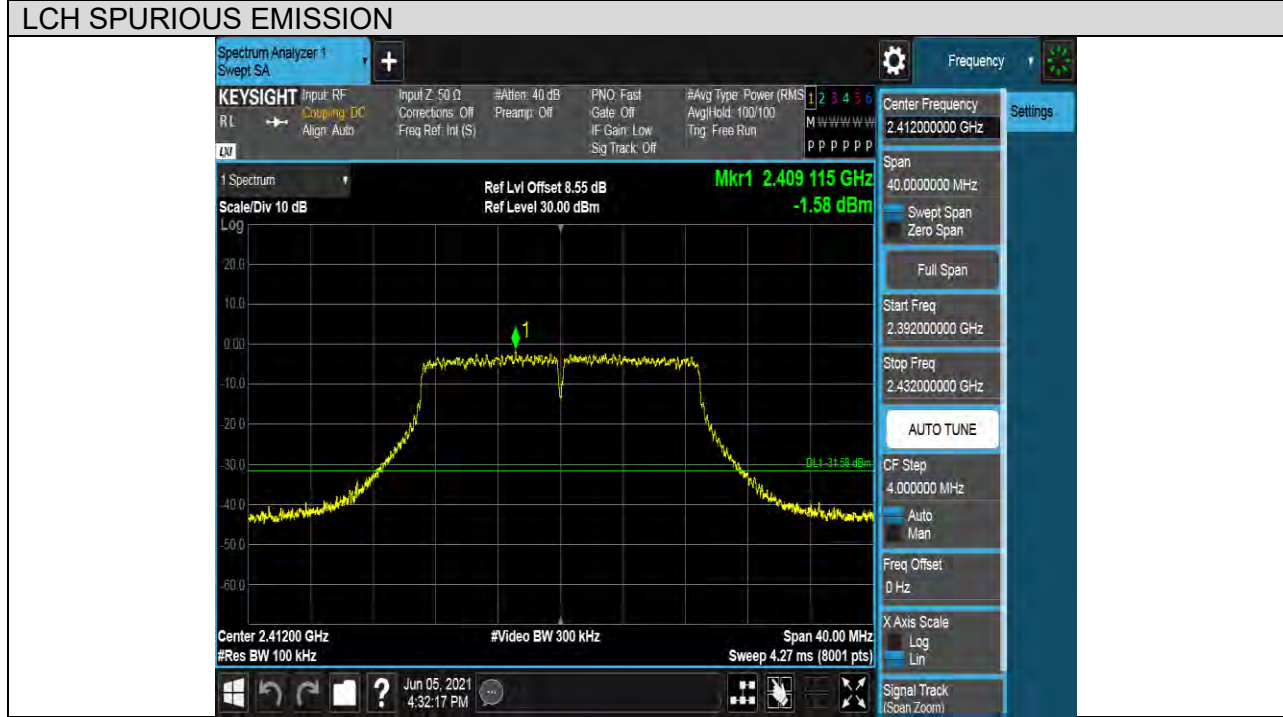
HCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11N HT20	LCH	PASS

Pref test Plot





Puw test Plot

LCH SPURIOUS EMISSION 30MHz~10GHz



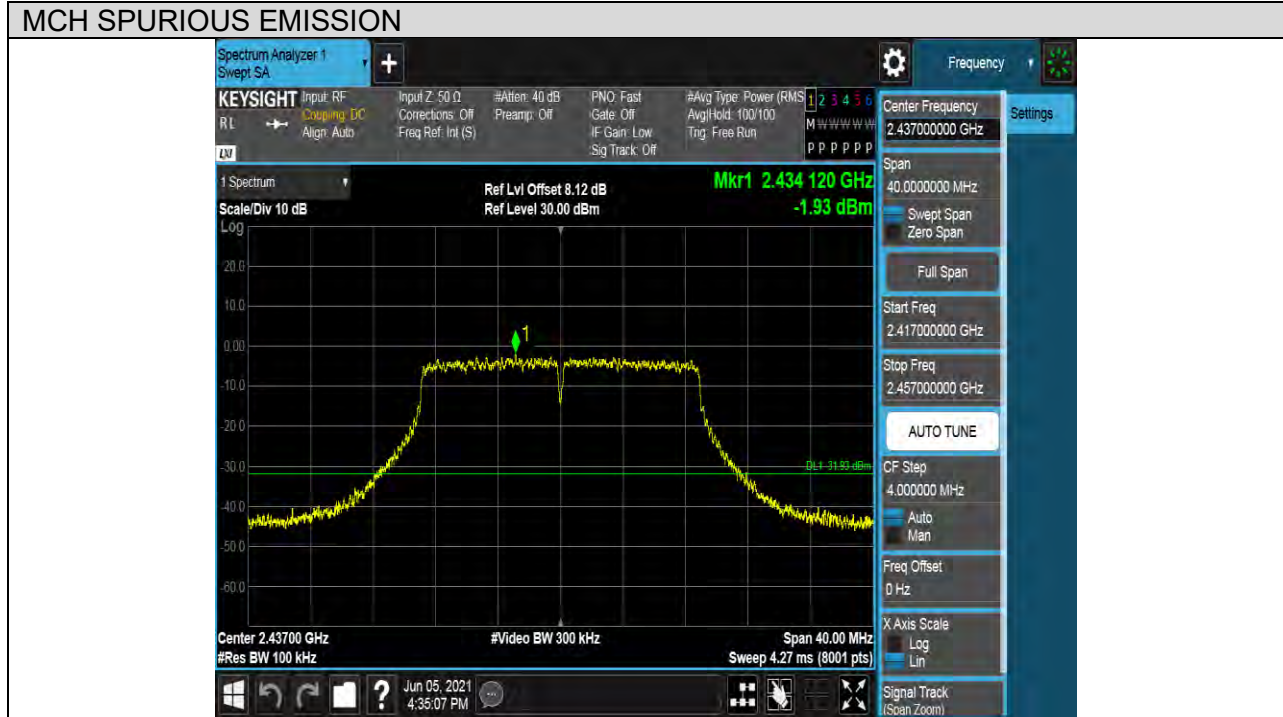
LCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11N HT20	MCH	PASS

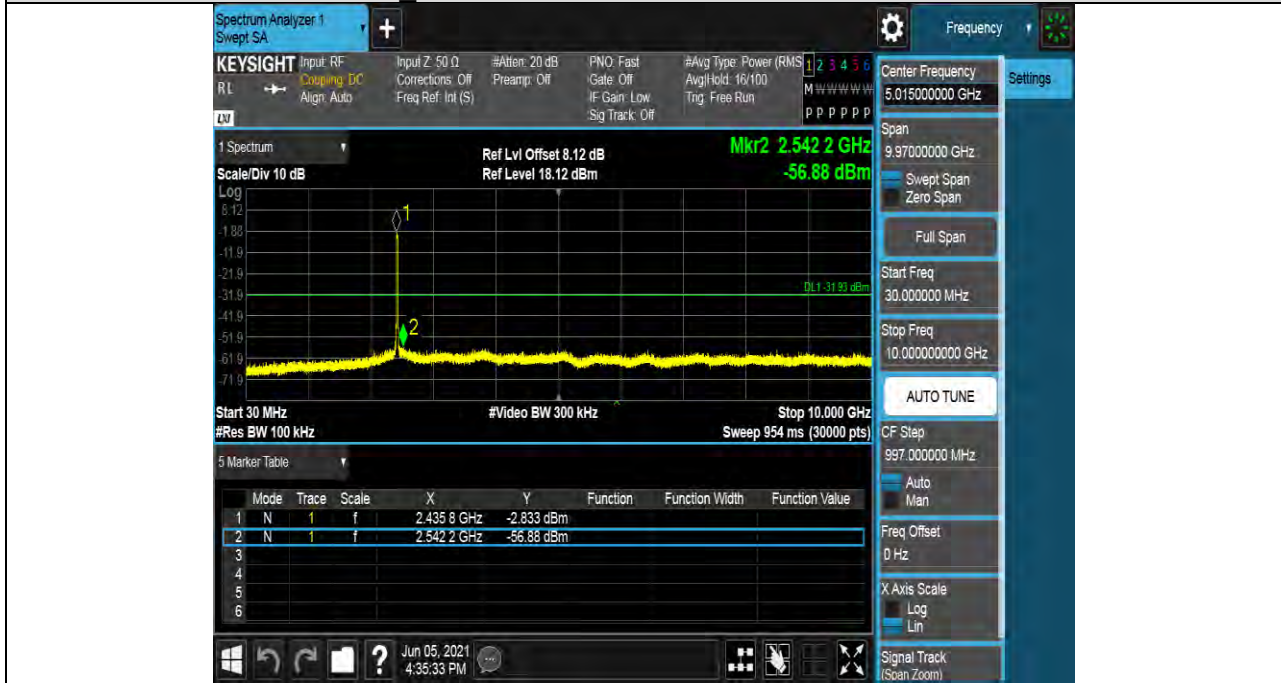
Pref test Plot





Puw test Plot

MCH SPURIOUS EMISSION 30MHz~10GHz



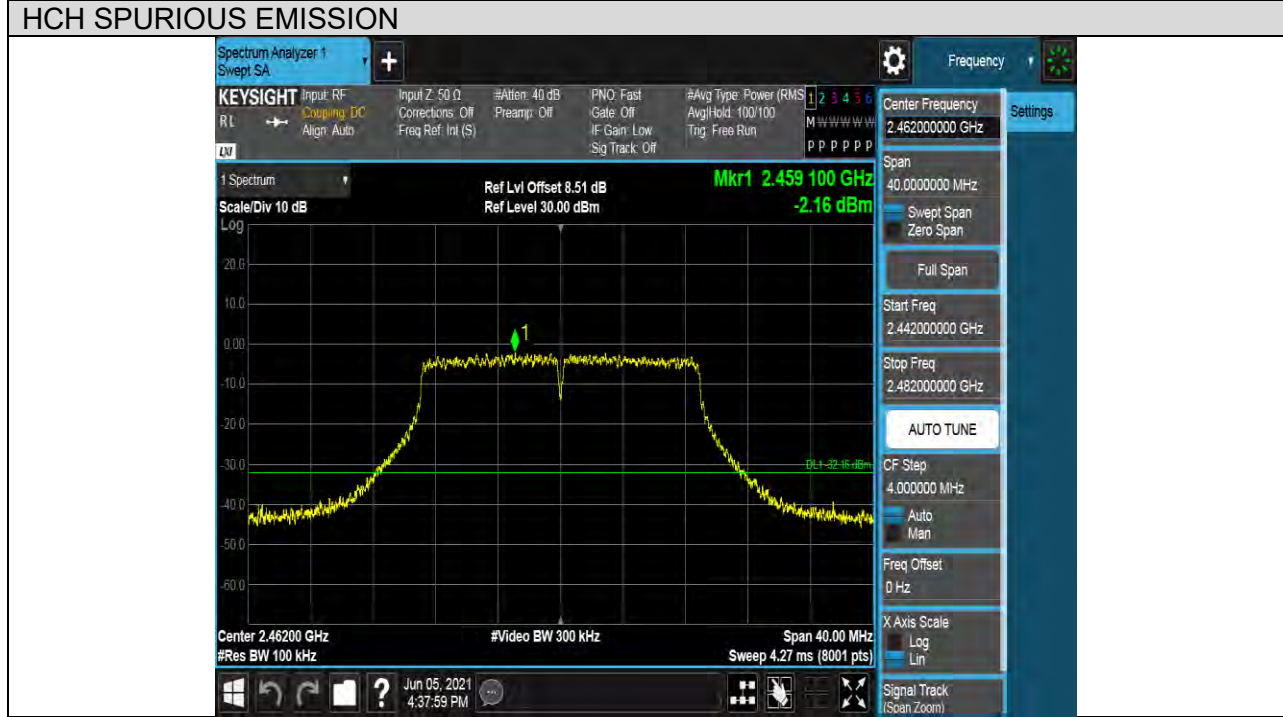
MCH SPURIOUS EMISSION 10GHz~26GHz





Test Mode	Channel	Verdict
11N HT20	HCH	PASS

Pref test Plot





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, ISED RSS-247 Clause 5.5, ISED RSS-GEN Clause 8.9&6.13 (Transmitter)

Radiation Disturbance Test Limit for ISED (9kHz-1GHz)

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz	
Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) ($\mu\text{A}/\text{m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



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

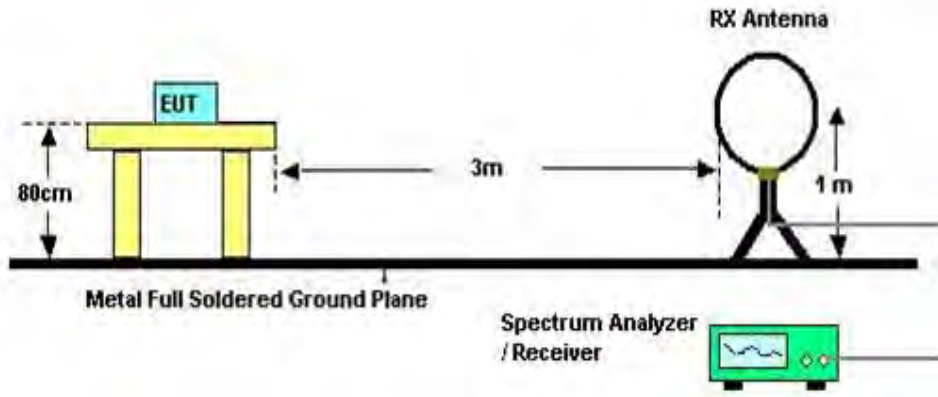
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz

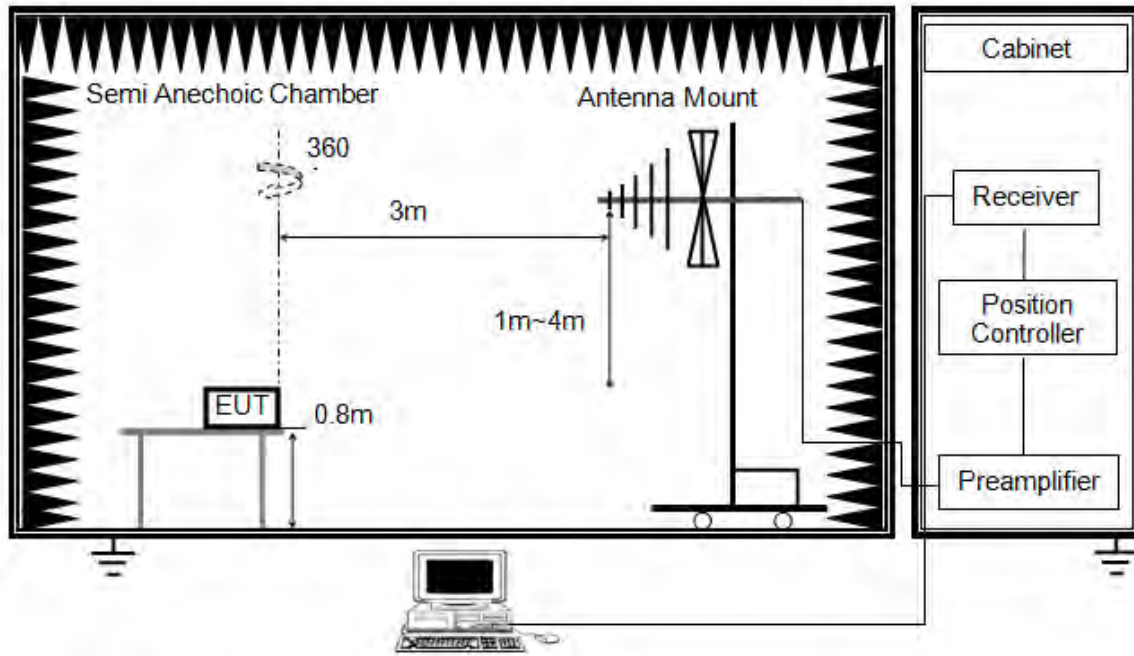


The setting of the spectrum analyser

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

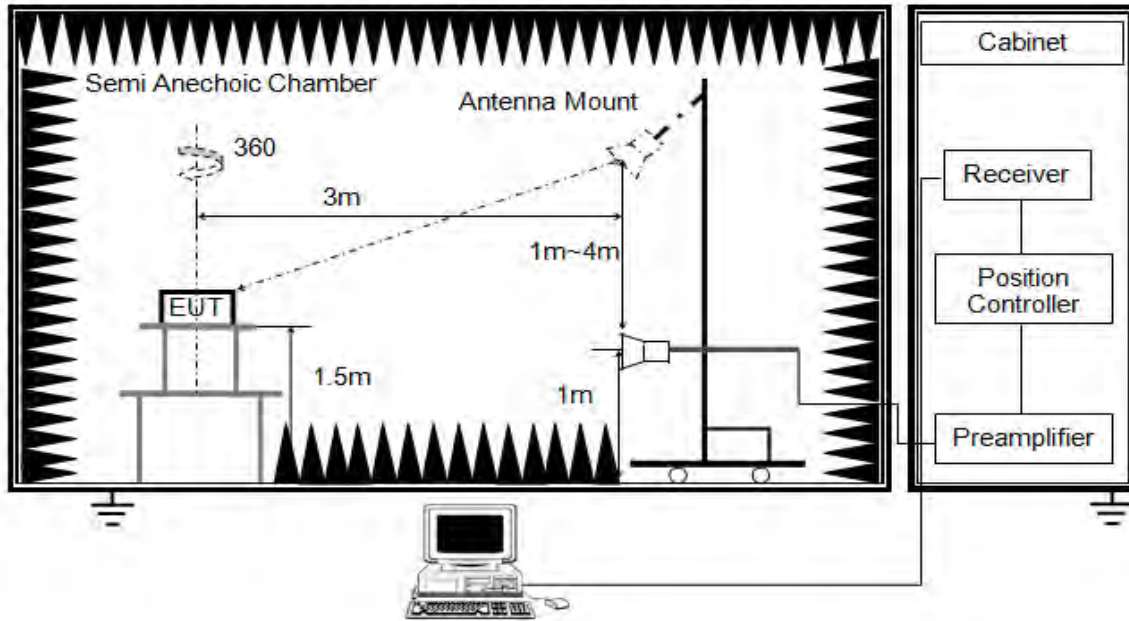


The setting of the spectrum analyser

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

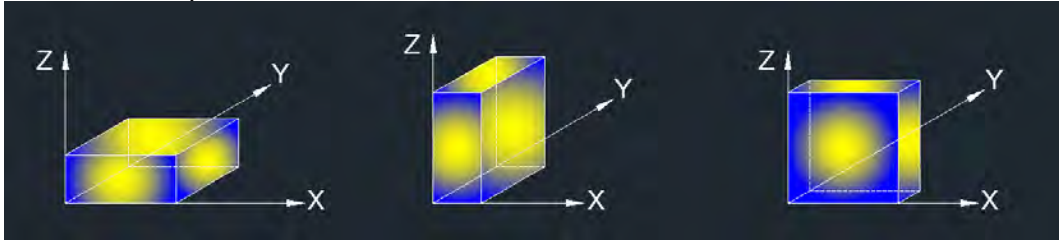


The setting of the spectrum analyser

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 $VBW \leq RBW/100$, but not less than list in section 7.1 with average detector, max hold to run for at least 50 traces for average measurements.
7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

X axis, Y 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.



7.6.2. TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

7.6.3. RESTRICTED BANDEDGE

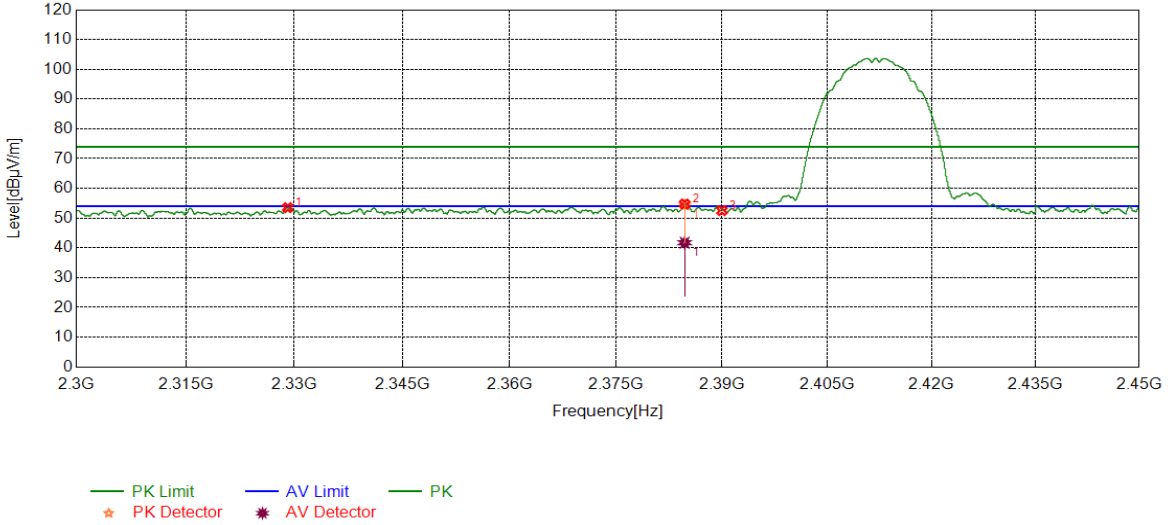
TEST RESULT TABLE

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



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/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2329.0849	41.07	12.46	53.53	74.00	-20.47	Horizontal
2	2384.7043	41.68	13.06	54.74	74.00	-19.26	Horizontal
3	2390.0000	39.45	13.07	52.52	74.00	-21.48	Horizontal

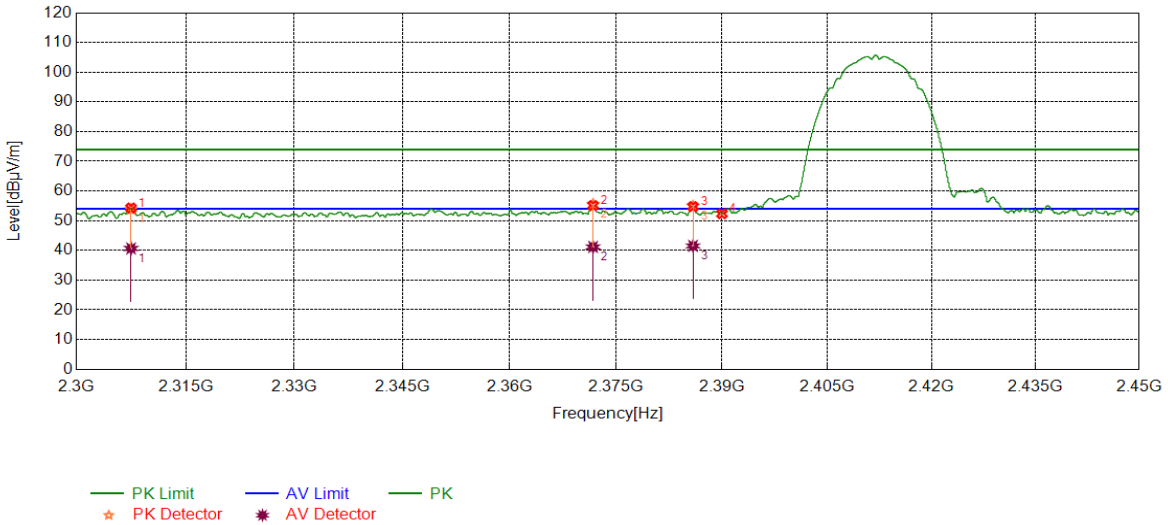
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2384.7043	28.68	13.06	41.74	54.00	-12.26	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2307.4822	42.00	12.29	54.29	74.00	-19.71	Vertical
2	2371.7465	42.15	12.95	55.10	74.00	-18.90	Vertical
3	2385.8857	41.70	13.06	54.76	74.00	-19.24	Vertical
4	2390.0000	39.27	13.07	52.34	74.00	-21.66	Vertical

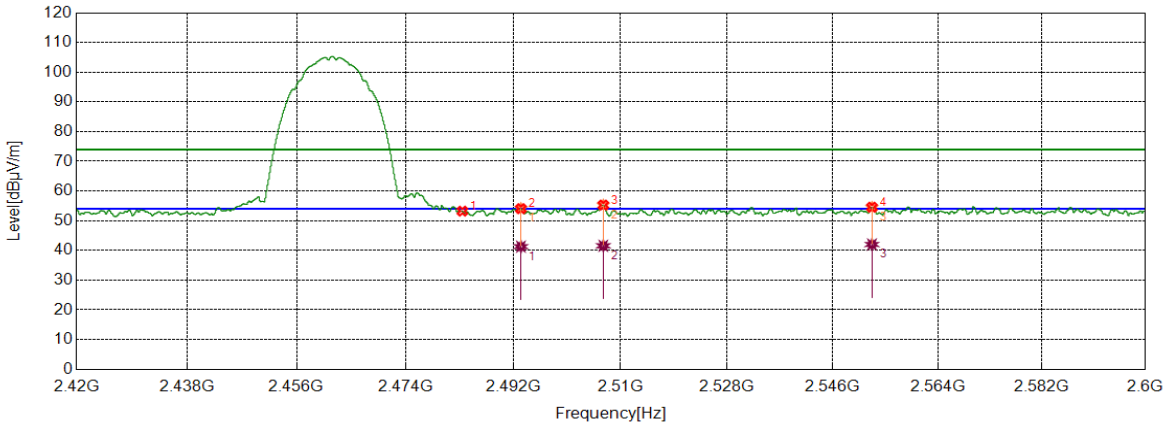
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2307.4822	28.37	12.29	40.66	54.00	-13.34	Vertical
2	2371.7465	28.23	12.95	41.18	54.00	-12.82	Vertical
3	2385.8857	28.47	13.06	41.53	54.00	-12.47	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;
 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



— PK Limit — AV Limit — PK
★ PK Detector ✱ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	40.26	12.97	53.23	74.00	-20.77	Horizontal
2	2493.2692	41.02	13.04	54.06	74.00	-19.94	Horizontal
3	2507.0859	42.09	13.19	55.28	74.00	-18.72	Horizontal
4	2552.6991	41.19	13.37	54.56	74.00	-19.44	Horizontal

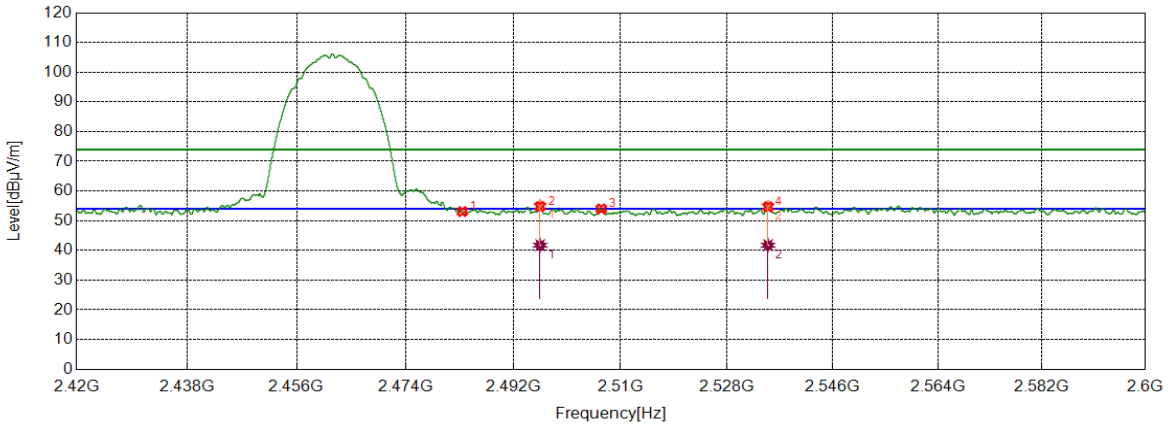
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2493.2692	28.24	13.04	41.28	54.00	-12.72	Horizontal
2	2507.0859	28.37	13.19	41.56	54.00	-12.44	Horizontal
3	2552.6991	28.64	13.37	42.01	54.00	-11.99	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;
 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



— PK Limit — AV Limit — PK
★ PK Detector ✱ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	40.10	12.97	53.07	74.00	-20.93	Vertical
2	2496.4871	41.68	13.09	54.77	74.00	-19.23	Vertical
3	2506.7483	40.81	13.18	53.99	74.00	-20.01	Vertical
4	2534.9669	41.27	13.42	54.69	74.00	-19.31	Vertical

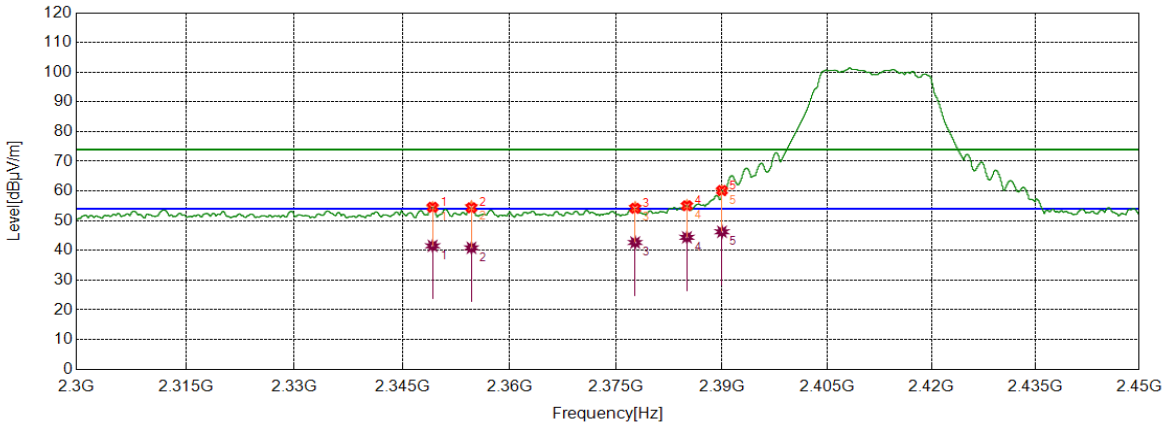
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2496.4871	28.67	13.09	41.76	54.00	-12.24	Vertical
2	2534.9669	28.34	13.42	41.76	54.00	-12.24	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;
 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



— PK Limit — AV Limit — PK
★ PK Detector ★ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2349.2249	41.86	12.68	54.54	74.00	-19.46	Horizontal
2	2354.6631	41.62	12.73	54.35	74.00	-19.65	Horizontal
3	2377.6910	41.14	13.03	54.17	74.00	-19.83	Horizontal
4	2385.0231	41.99	13.06	55.05	74.00	-18.95	Horizontal
5	2390.0000	47.10	13.07	60.17	74.00	-13.83	Horizontal

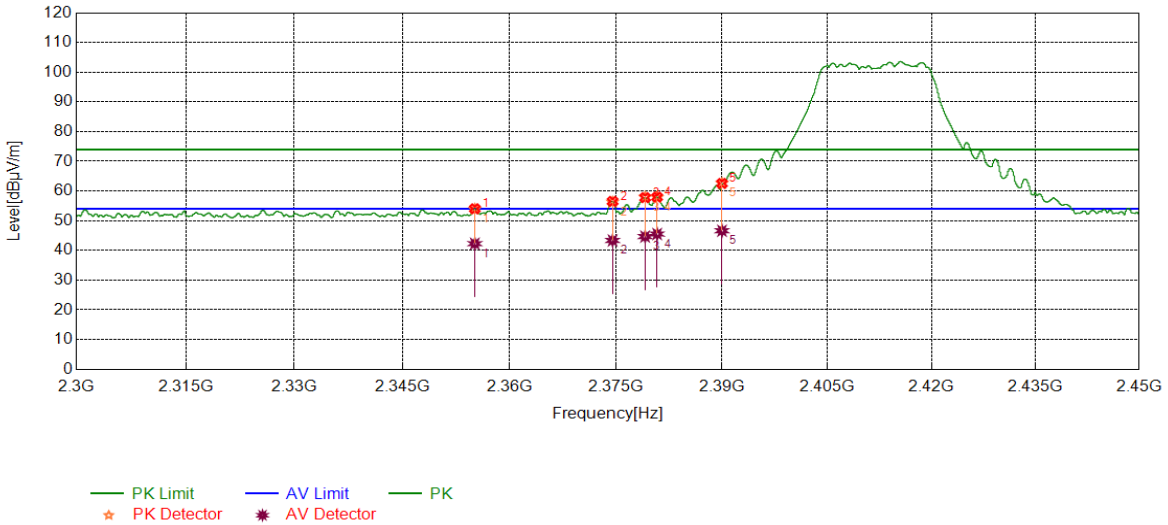
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2349.2249	28.86	12.68	41.54	54.00	-12.46	Horizontal
2	2354.6631	28.14	12.73	40.87	54.00	-13.13	Horizontal
3	2377.6910	29.64	13.03	42.67	54.00	-11.33	Horizontal
4	2385.0231	31.34	13.06	44.40	54.00	-9.60	Horizontal
5	2390.0000	33.21	13.07	46.28	54.00	-7.72	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2355.1319	41.31	12.73	54.04	74.00	-19.96	Vertical
2	2374.5031	43.52	12.99	56.51	74.00	-17.49	Vertical
3	2379.0974	44.71	13.05	57.76	74.00	-16.24	Vertical
4	2380.8039	44.89	13.06	57.95	74.00	-16.05	Vertical
5	2390.0000	49.49	13.07	62.56	74.00	-11.44	Vertical

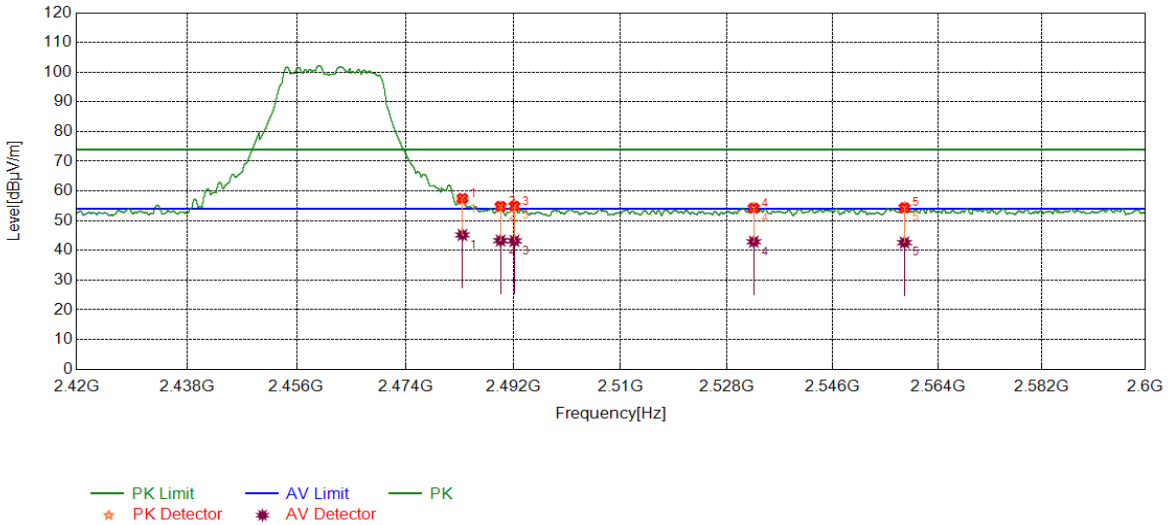
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2355.1319	29.55	12.73	42.28	54.00	-11.72	Vertical
2	2374.5031	30.37	12.99	43.36	54.00	-10.64	Vertical
3	2379.0974	31.61	13.05	44.66	54.00	-9.34	Vertical
4	2380.8039	32.46	13.06	45.52	54.00	-8.48	Vertical
5	2390.0000	33.56	13.07	46.63	54.00	-7.37	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	44.56	12.97	57.53	74.00	-16.47	Horizontal
2	2489.8712	41.84	13.00	54.84	74.00	-19.16	Horizontal
3	2492.1890	41.87	13.03	54.90	74.00	-19.10	Horizontal
4	2532.5366	40.84	13.42	54.26	74.00	-19.74	Horizontal
5	2558.2798	40.95	13.40	54.35	74.00	-19.65	Horizontal

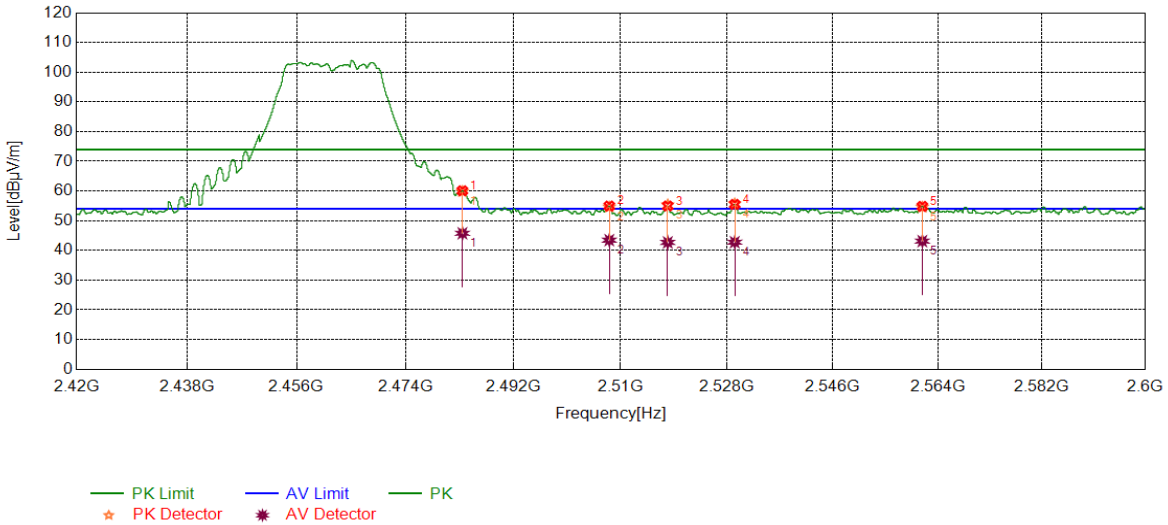
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	32.24	12.97	45.21	54.00	-8.79	Horizontal
2	2489.8712	30.31	13.00	43.31	54.00	-10.69	Horizontal
3	2492.1890	30.19	13.03	43.22	54.00	-10.78	Horizontal
4	2532.5366	29.51	13.42	42.93	54.00	-11.07	Horizontal
5	2558.2798	29.24	13.40	42.64	54.00	-11.36	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	47.13	12.97	60.10	74.00	-13.90	Vertical
2	2508.0985	41.77	13.19	54.96	74.00	-19.04	Vertical
3	2517.9547	41.73	13.22	54.95	74.00	-19.05	Vertical
4	2529.2962	42.09	13.41	55.50	74.00	-18.50	Vertical
5	2561.3402	41.42	13.42	54.84	74.00	-19.16	Vertical

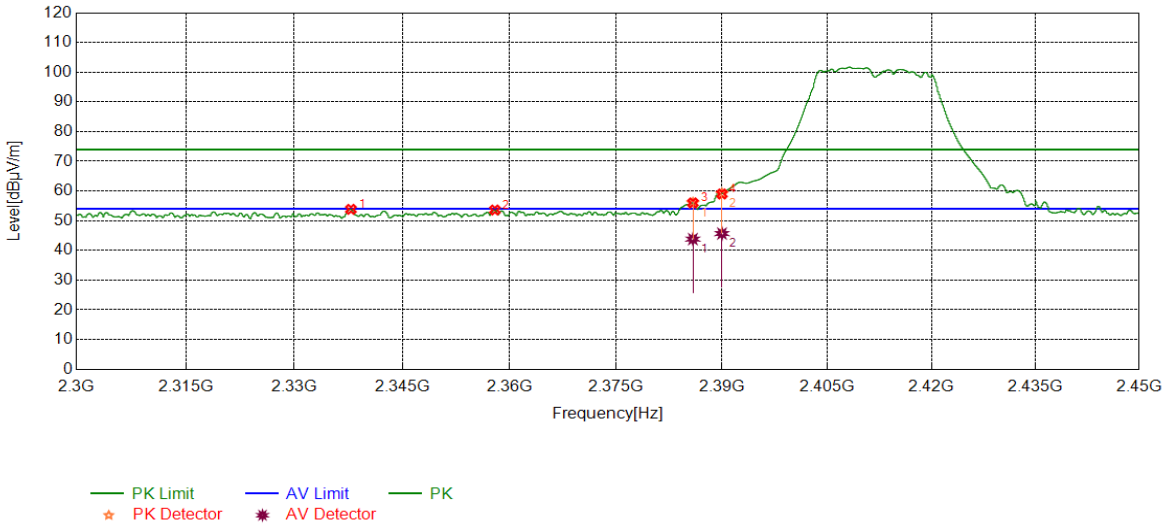
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	32.79	12.97	45.76	54.00	-8.24	Vertical
2	2508.0985	30.27	13.19	43.46	54.00	-10.54	Vertical
3	2517.9547	29.48	13.22	42.70	54.00	-11.30	Vertical
4	2529.2962	29.36	13.41	42.77	54.00	-11.23	Vertical
5	2561.3402	29.72	13.42	43.14	54.00	-10.86	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2337.8422	41.27	12.57	53.84	74.00	-20.16	Horizontal
2	2357.9447	40.85	12.76	53.61	74.00	-20.39	Horizontal
3	2385.8670	42.95	13.06	56.01	74.00	-17.99	Horizontal
4	2390.0000	45.94	13.07	59.01	74.00	-14.99	Horizontal

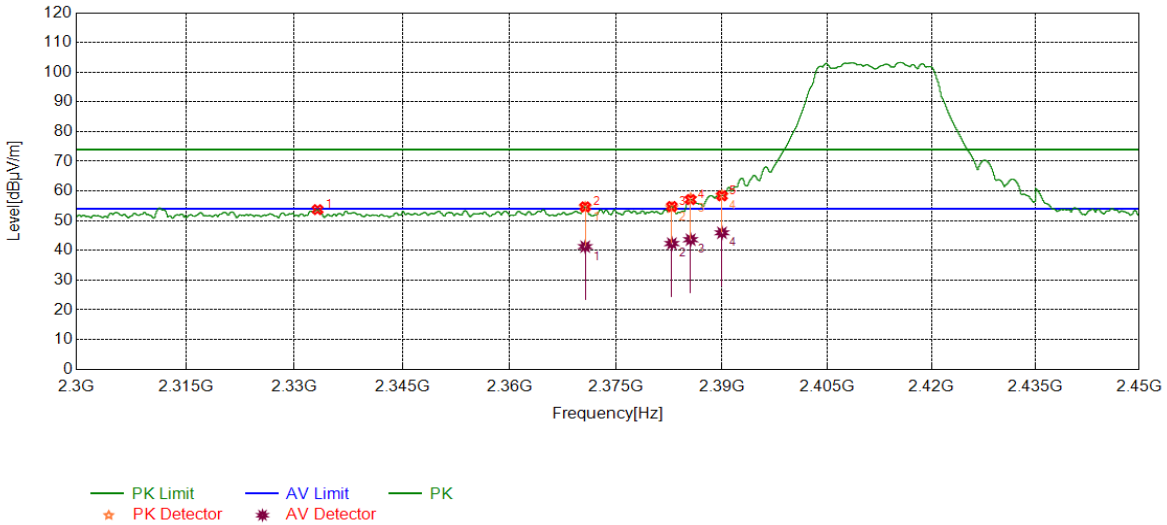
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2385.8670	30.75	13.06	43.81	54.00	-10.19	Horizontal
2	2390.0000	32.61	13.07	45.68	54.00	-8.32	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2333.2104	41.22	12.51	53.73	74.00	-20.27	Vertical
2	2370.6401	41.72	12.94	54.66	74.00	-19.34	Vertical
3	2382.8854	41.75	13.06	54.81	74.00	-19.19	Vertical
4	2385.5482	44.06	13.06	57.12	74.00	-16.88	Vertical
5	2390.0000	45.32	13.07	58.39	74.00	-15.61	Vertical

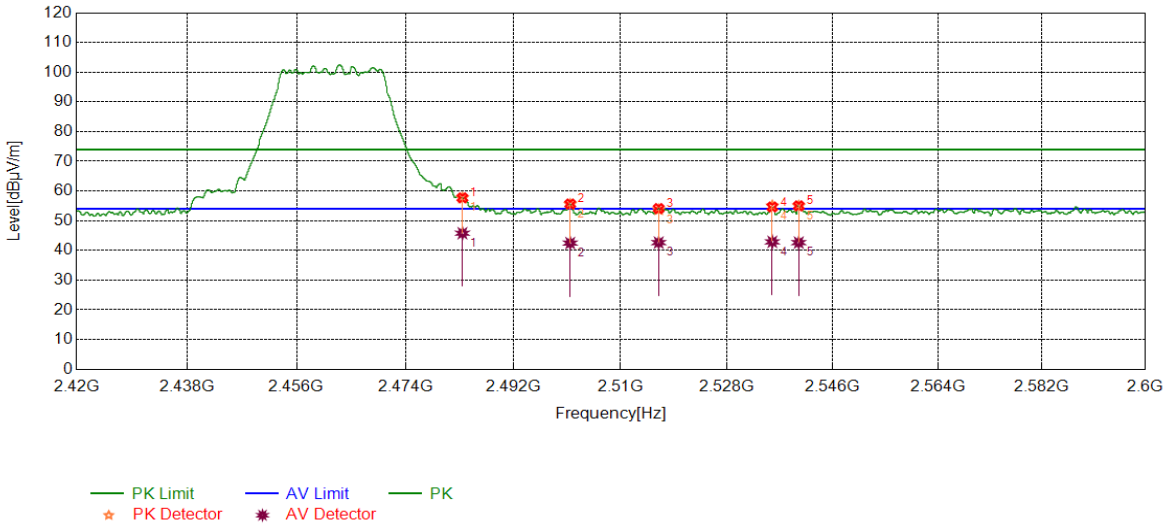
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2370.6401	28.34	12.94	41.28	54.00	-12.72	Vertical
2	2382.8854	29.26	13.06	42.32	54.00	-11.68	Vertical
3	2385.5482	30.57	13.06	43.63	54.00	-10.37	Vertical
4	2390.0000	32.87	13.07	45.94	54.00	-8.06	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	44.75	12.97	57.72	74.00	-16.28	Horizontal
2	2501.5277	42.49	13.15	55.64	74.00	-18.36	Horizontal
3	2516.4246	40.90	13.21	54.11	74.00	-19.89	Horizontal
4	2535.6870	41.20	13.42	54.62	74.00	-19.38	Horizontal
5	2540.1875	41.60	13.41	55.01	74.00	-18.99	Horizontal

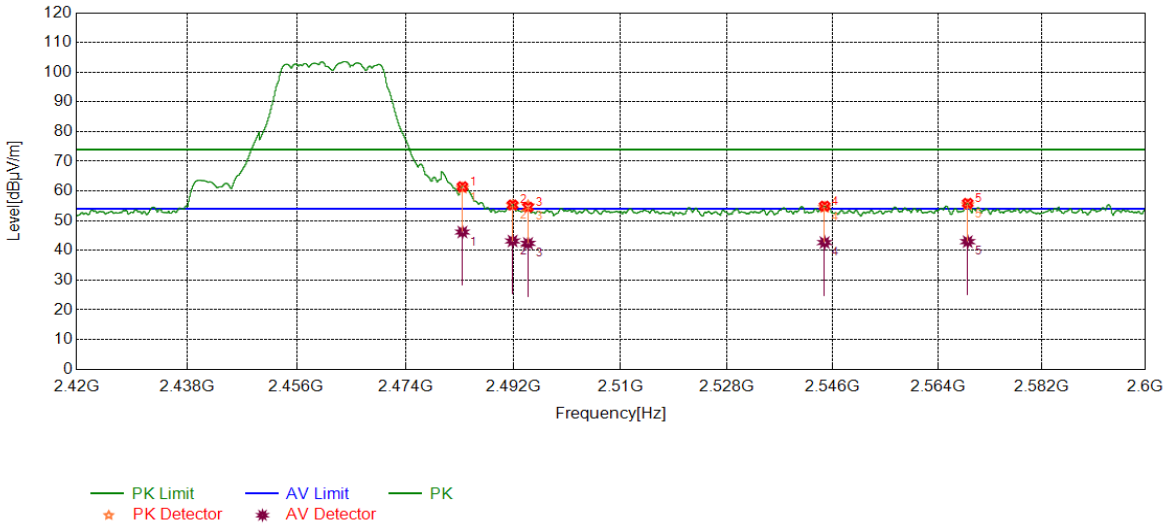
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	32.82	12.97	45.79	54.00	-8.21	Horizontal
2	2501.5277	29.32	13.15	42.47	54.00	-11.53	Horizontal
3	2516.4246	29.43	13.21	42.64	54.00	-11.36	Horizontal
4	2535.6870	29.47	13.42	42.89	54.00	-11.11	Horizontal
5	2540.1875	29.23	13.41	42.64	54.00	-11.36	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;
 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	48.50	12.97	61.47	74.00	-12.53	Vertical
2	2491.8740	42.30	13.02	55.32	74.00	-18.68	Vertical
3	2494.4618	41.50	13.06	54.56	74.00	-19.44	Vertical
4	2544.5981	41.52	13.39	54.91	74.00	-19.09	Vertical
5	2569.1486	42.42	13.45	55.87	74.00	-18.13	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	33.22	12.97	46.19	54.00	-7.81	Vertical
2	2491.8740	30.16	13.02	43.18	54.00	-10.82	Vertical
3	2494.4618	29.32	13.06	42.38	54.00	-11.62	Vertical
4	2544.5981	29.27	13.39	42.66	54.00	-11.34	Vertical
5	2569.1486	29.51	13.45	42.96	54.00	-11.04	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;
 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 RESULTS 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

2) For 9KHz~30MHz

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

Remark:

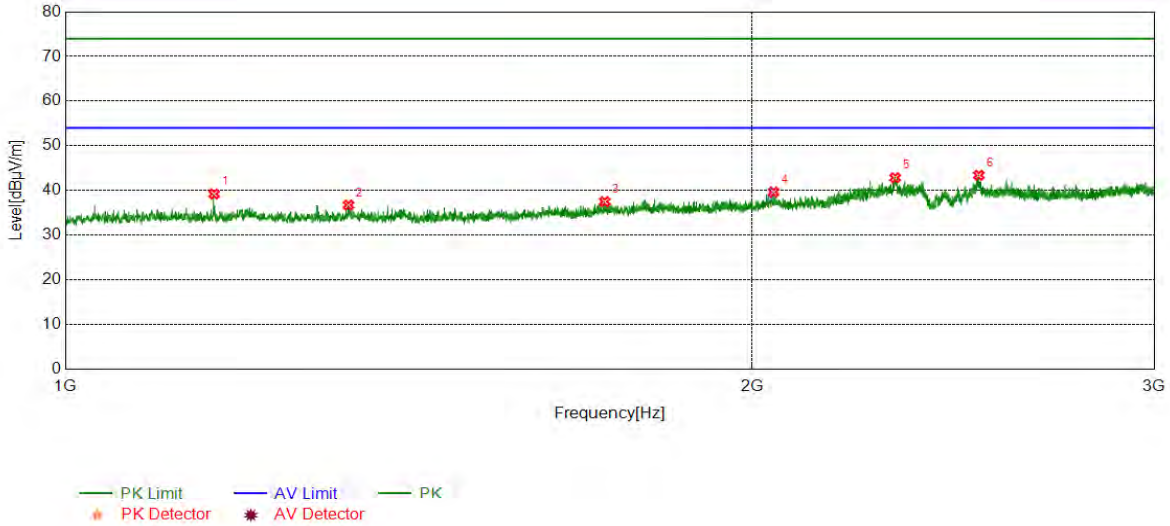
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.



Part I: 1GHz~3GHz

HARMONICS AND SPURIOUS EMISSIONS

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS

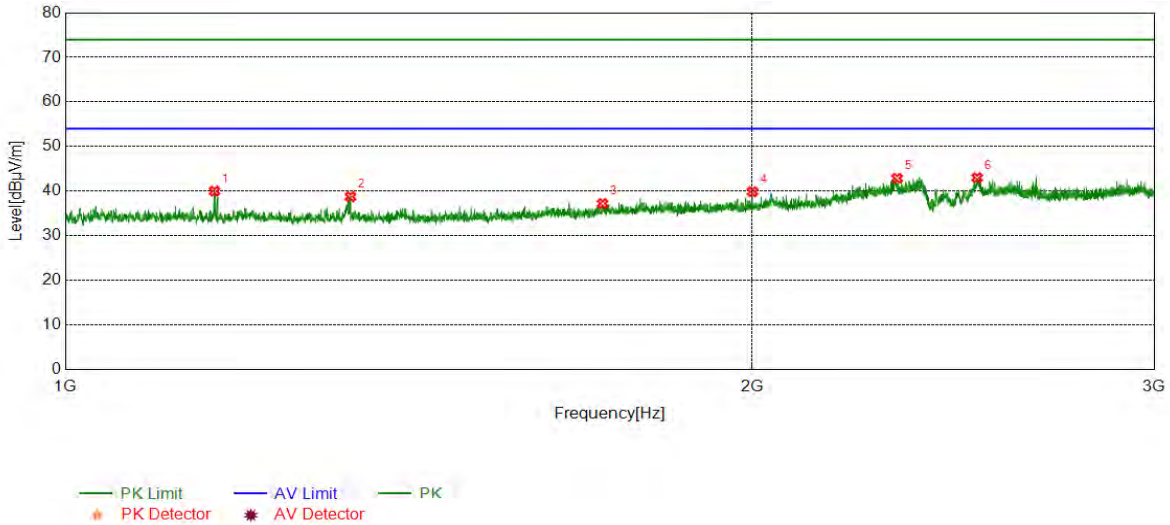


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1162.0203	44.71	-5.52	39.19	74.00	-34.81	Horizontal
2	1330.7913	42.37	-5.68	36.69	74.00	-37.31	Horizontal
3	1723.3404	41.81	-4.34	37.47	74.00	-36.53	Horizontal
4	2043.1304	42.01	-2.39	39.62	74.00	-34.38	Horizontal
5	2310.1638	44.49	-1.65	42.84	74.00	-31.16	Horizontal
6	2513.6892	43.75	-0.36	43.39	74.00	-30.61	Horizontal

- 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

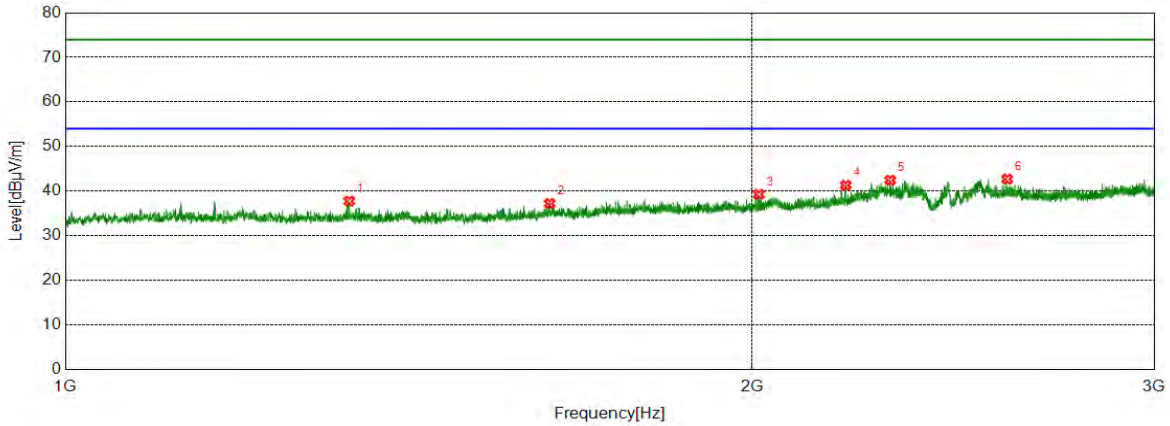


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1162.5203	45.49	-5.52	39.97	74.00	-34.03	Vertical
2	1333.5417	44.39	-5.67	38.72	74.00	-35.28	Vertical
3	1719.5899	41.49	-4.30	37.19	74.00	-36.81	Vertical
4	2000.3750	42.83	-2.99	39.84	74.00	-34.16	Vertical
5	2314.6643	44.52	-1.65	42.87	74.00	-31.13	Vertical
6	2509.4387	43.37	-0.39	42.98	74.00	-31.02	Vertical

- 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



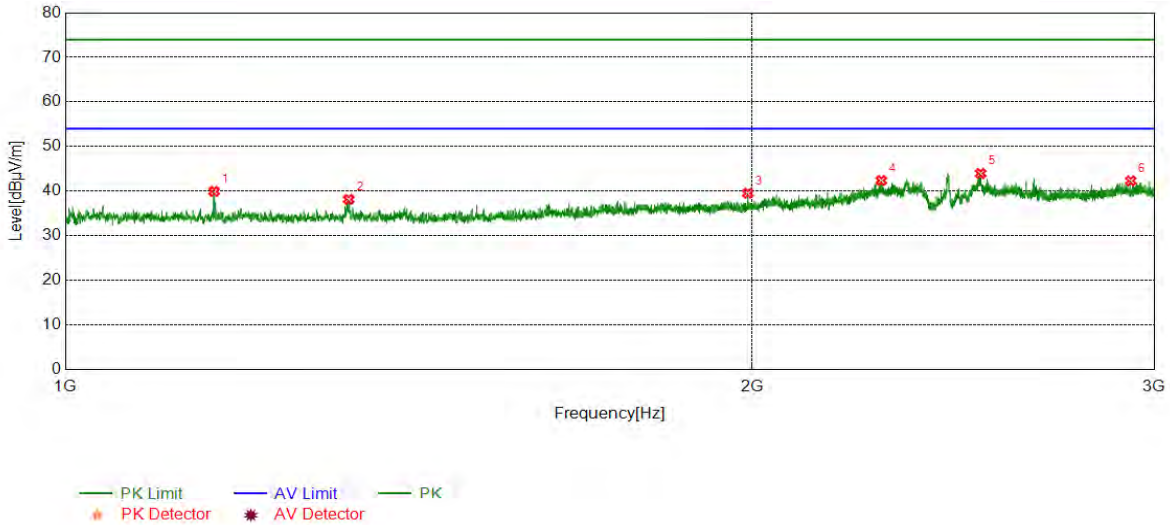
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1331.7915	43.44	-5.68	37.76	74.00	-36.24	Horizontal
2	1630.3288	42.27	-5.07	37.20	74.00	-36.80	Horizontal
3	2013.1266	42.10	-2.86	39.24	74.00	-34.76	Horizontal
4	2197.6497	43.62	-2.33	41.29	74.00	-32.71	Horizontal
5	2298.6623	44.31	-1.87	42.44	74.00	-31.56	Horizontal
6	2586.6983	43.50	-0.84	42.66	74.00	-31.34	Horizontal

- 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

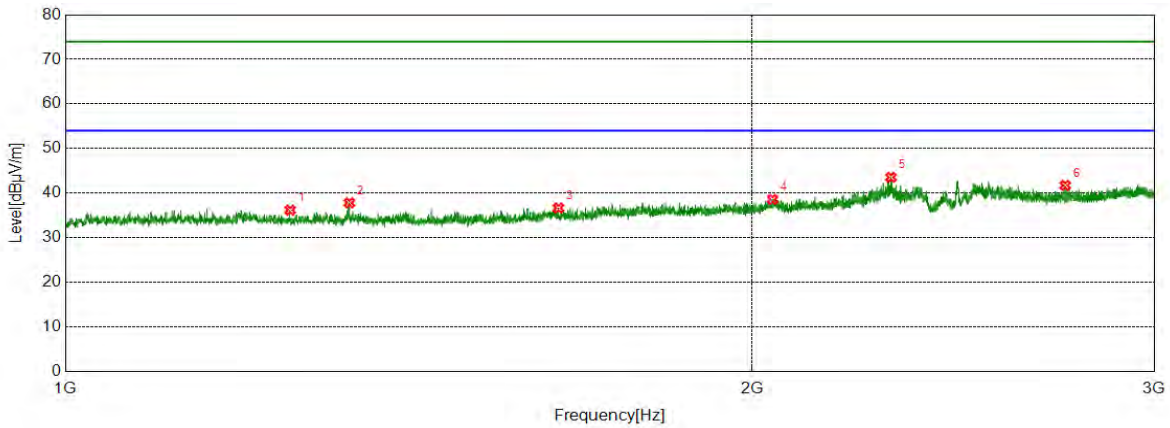


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1162.0203	45.44	-5.52	39.92	74.00	-34.08	Vertical
2	1331.0414	43.81	-5.68	38.13	74.00	-35.87	Vertical
3	1991.1239	42.59	-3.08	39.51	74.00	-34.49	Vertical
4	2277.9097	44.33	-1.97	42.36	74.00	-31.64	Vertical
5	2518.1898	44.28	-0.33	43.95	74.00	-30.05	Vertical
6	2930.2413	41.77	0.52	42.29	74.00	-31.71	Vertical

- 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



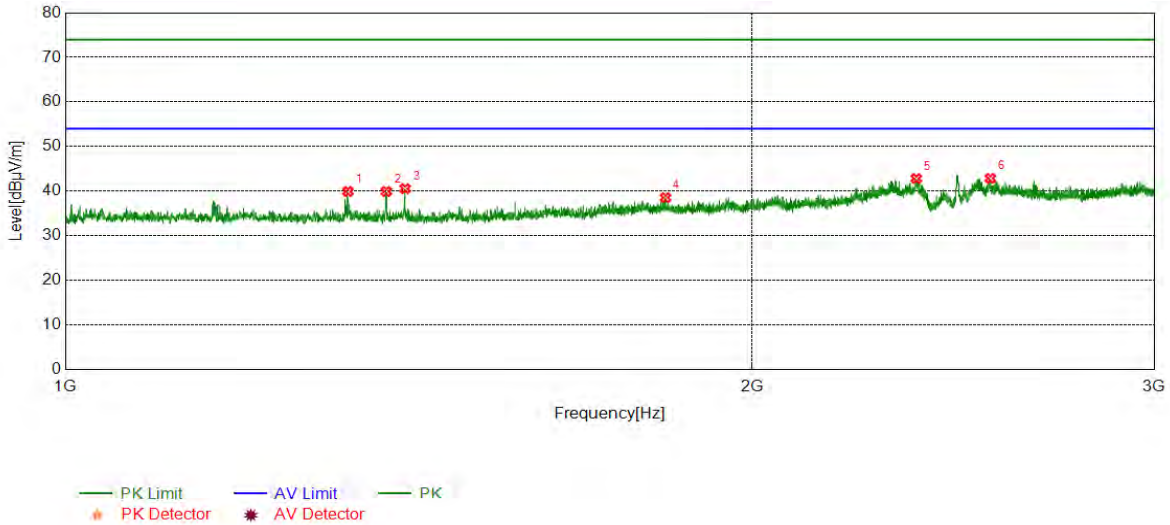
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1254.7818	41.83	-5.68	36.15	74.00	-37.85	Horizontal
2	1332.0415	43.48	-5.68	37.80	74.00	-36.20	Horizontal
3	1644.5806	41.65	-5.02	36.63	74.00	-37.37	Horizontal
4	2041.3802	40.98	-2.39	38.59	74.00	-35.41	Horizontal
5	2300.6626	45.37	-1.84	43.53	74.00	-30.47	Horizontal
6	2742.4678	42.17	-0.45	41.72	74.00	-32.28	Horizontal

- 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

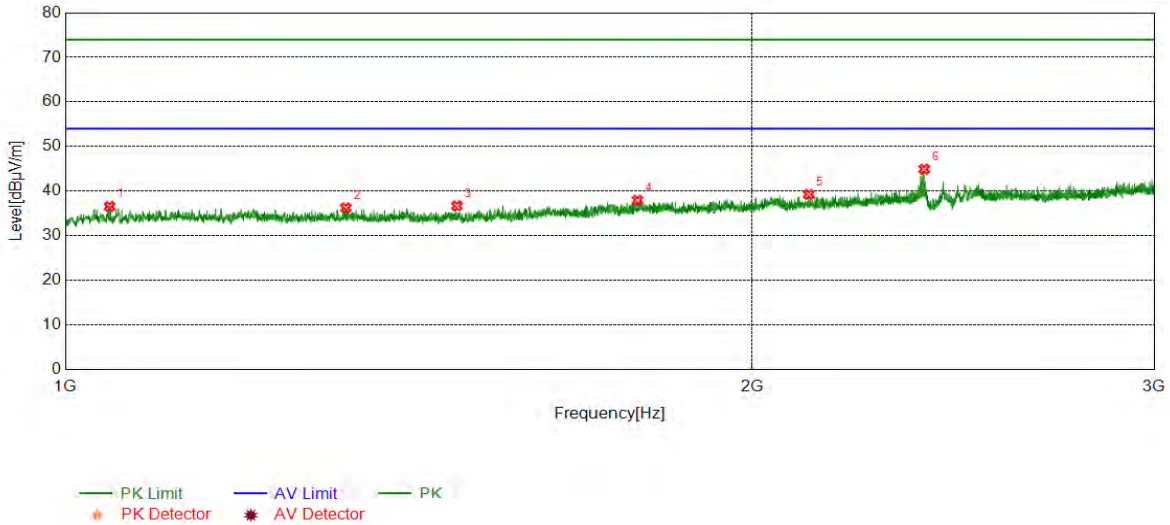


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1330.0413	45.59	-5.68	39.91	74.00	-34.09	Vertical
2	1382.5478	45.66	-5.76	39.90	74.00	-34.10	Vertical
3	1409.0511	45.92	-5.39	40.53	74.00	-33.47	Vertical
4	1832.3540	42.19	-3.69	38.50	74.00	-35.50	Vertical
5	2359.9200	43.99	-1.19	42.80	74.00	-31.20	Vertical
6	2543.1929	43.80	-0.97	42.83	74.00	-31.17	Vertical

- 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

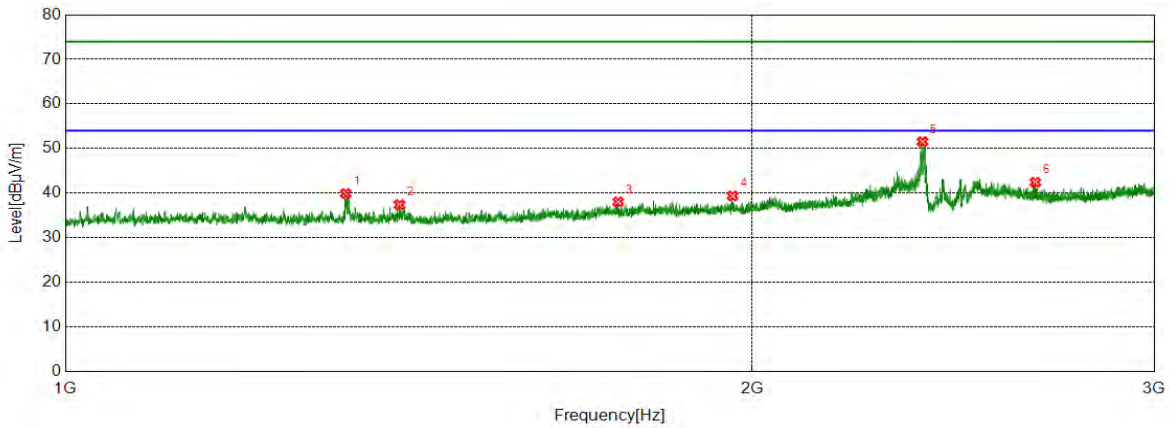


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1045.7557	42.05	-5.53	36.52	74.00	-37.48	Horizontal
2	1327.2909	41.87	-5.66	36.21	74.00	-37.79	Horizontal
3	1484.5606	42.43	-5.79	36.64	74.00	-37.36	Horizontal
4	1781.3477	41.83	-3.93	37.90	74.00	-36.10	Horizontal
5	2117.1396	41.66	-2.45	39.21	74.00	-34.79	Horizontal
6	2378.9224	45.97	-1.08	44.89	74.00	-29.11	Horizontal

- 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



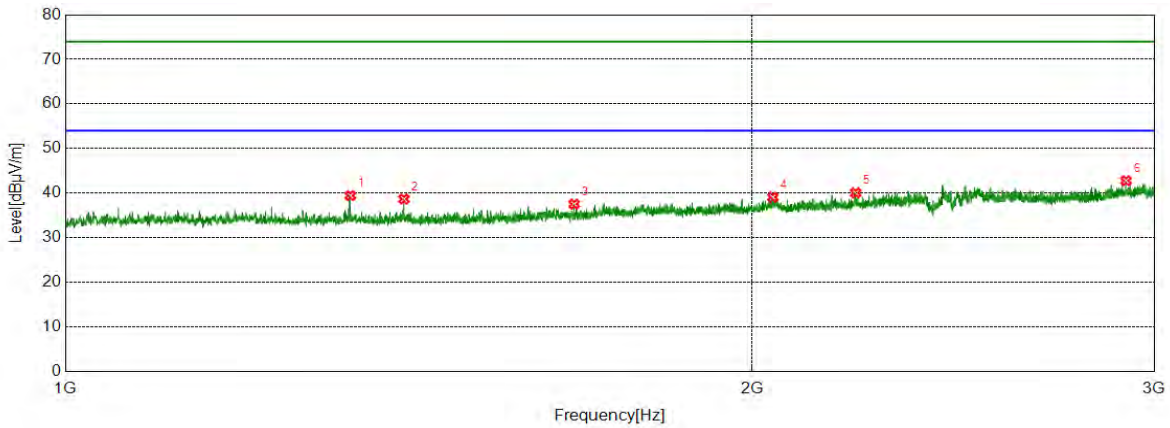
— PK Limit — AV Limit — PK
★ PK Detector ★ AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1327.0409	45.55	-5.66	39.89	74.00	-34.11	Vertical
2	1401.0501	42.99	-5.62	37.37	74.00	-36.63	Vertical
3	1746.8434	42.47	-4.48	37.99	74.00	-36.01	Vertical
4	1960.6201	42.47	-3.14	39.33	74.00	-34.67	Vertical
5	2374.9219	52.63	-1.11	51.52	74.00	-22.48	Vertical
6	2661.2077	43.08	-0.68	42.40	74.00	-31.60	Vertical

- 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

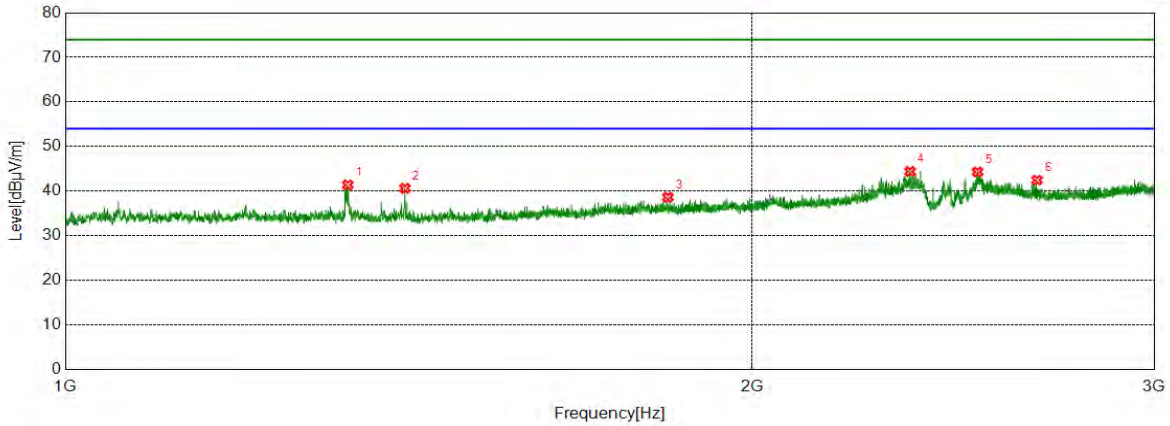


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1333.2917	45.09	-5.67	39.42	74.00	-34.58	Horizontal
2	1407.3009	44.09	-5.44	38.65	74.00	-35.35	Horizontal
3	1671.0839	42.35	-4.84	37.51	74.00	-36.49	Horizontal
4	2041.8802	41.47	-2.39	39.08	74.00	-34.92	Horizontal
5	2219.9025	42.26	-2.22	40.04	74.00	-33.96	Horizontal
6	2915.9895	42.21	0.56	42.77	74.00	-31.23	Horizontal

- 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	Vertical	PASS



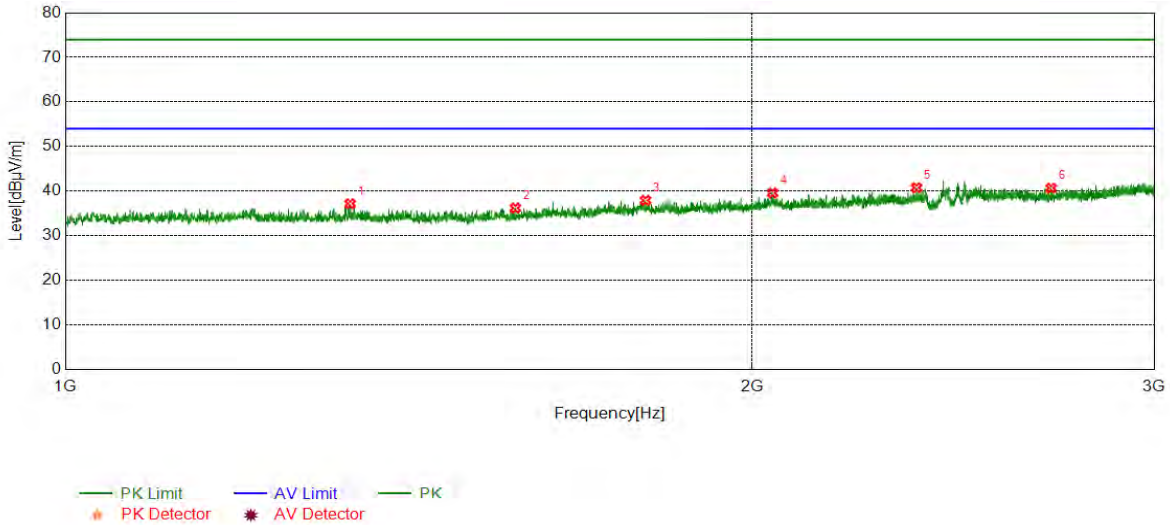
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1329.7912	47.05	-5.68	41.37	74.00	-32.63	Vertical
2	1408.8011	45.99	-5.39	40.60	74.00	-33.40	Vertical
3	1836.8546	42.31	-3.71	38.60	74.00	-35.40	Vertical
4	2345.1681	46.12	-1.74	44.38	74.00	-29.62	Vertical
5	2510.4388	44.67	-0.38	44.29	74.00	-29.71	Vertical
6	2665.7082	43.16	-0.71	42.45	74.00	-31.55	Vertical

- 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	Vertical	PASS

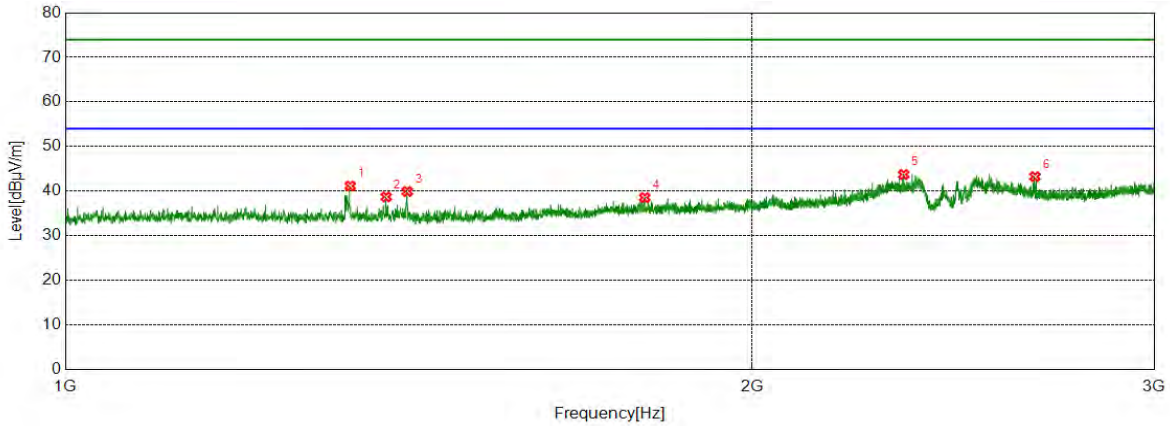


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1333.0416	42.80	-5.67	37.13	74.00	-36.87	Horizontal
2	1574.8219	41.72	-5.53	36.19	74.00	-37.81	Horizontal
3	1795.8495	41.69	-3.80	37.89	74.00	-36.11	Horizontal
4	2041.3802	41.94	-2.39	39.55	74.00	-34.45	Horizontal
5	2360.4201	41.92	-1.18	40.74	74.00	-33.26	Horizontal
6	2703.9630	40.99	-0.35	40.64	74.00	-33.36	Horizontal

- 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	HCH	Vertical	PASS



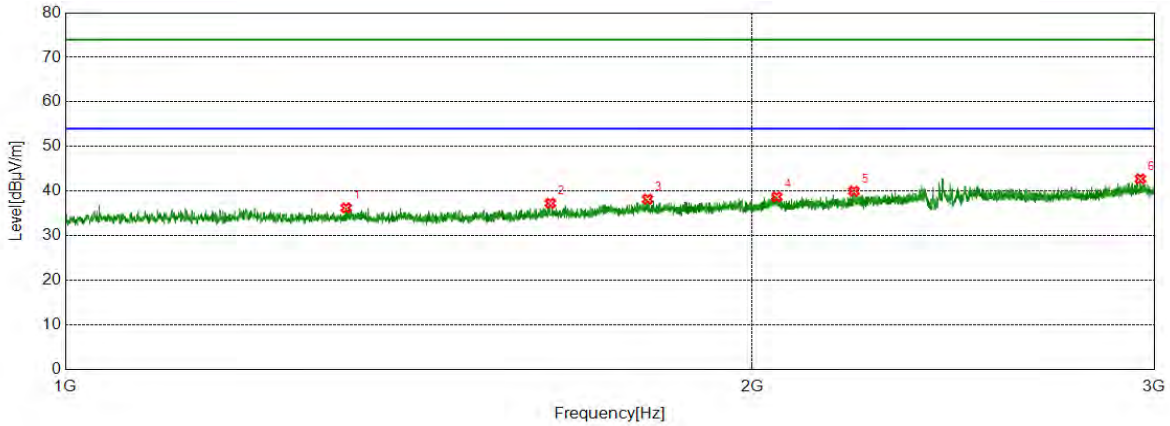
— PK Limit — AV Limit — PK
★ PK Detector ★ AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1333.0416	46.81	-5.67	41.14	74.00	-32.86	Vertical
2	1382.2978	44.42	-5.75	38.67	74.00	-35.33	Vertical
3	1412.0515	45.35	-5.45	39.90	74.00	-34.10	Vertical
4	1794.3493	42.31	-3.78	38.53	74.00	-35.47	Vertical
5	2330.1663	45.53	-1.82	43.71	74.00	-30.29	Vertical
6	2660.4576	43.91	-0.67	43.24	74.00	-30.76	Vertical

- 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
11N HT20	LCH	Horizontal	PASS



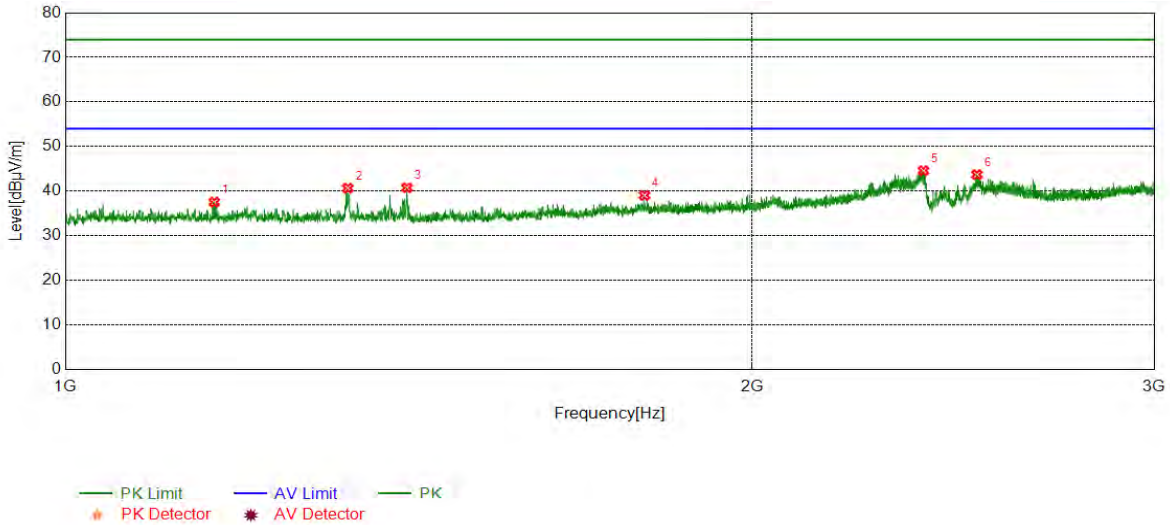
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1327.5409	41.87	-5.66	36.21	74.00	-37.79	Horizontal
2	1631.3289	42.33	-5.07	37.26	74.00	-36.74	Horizontal
3	1799.6000	42.02	-3.84	38.18	74.00	-35.82	Horizontal
4	2049.8812	41.06	-2.38	38.68	74.00	-35.32	Horizontal
5	2215.9020	42.24	-2.27	39.97	74.00	-34.03	Horizontal
6	2958.4948	41.77	0.96	42.73	74.00	-31.27	Horizontal

- 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
11N HT20	LCH	Vertical	PASS

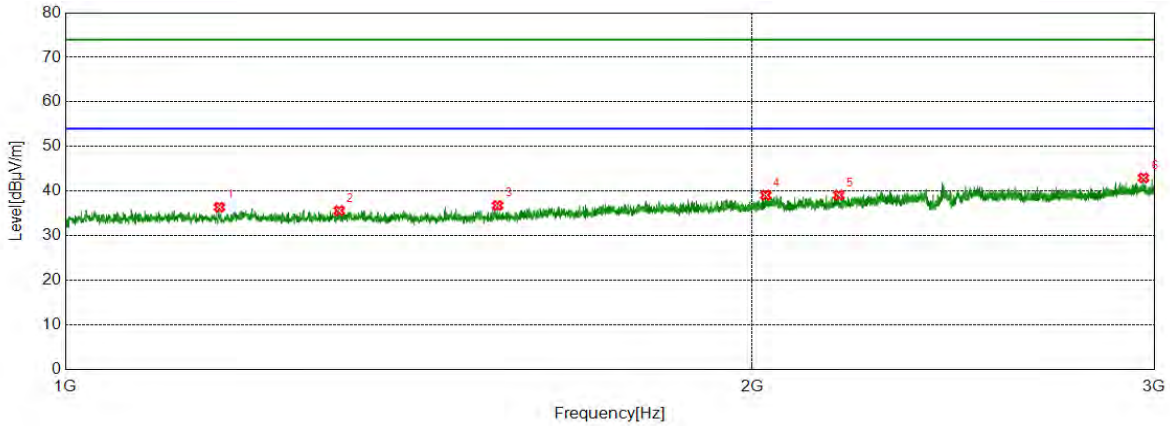


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1162.2703	43.02	-5.52	37.50	74.00	-36.50	Vertical
2	1329.7912	46.31	-5.68	40.63	74.00	-33.37	Vertical
3	1411.8015	46.17	-5.44	40.73	74.00	-33.27	Vertical
4	1793.8492	42.80	-3.78	39.02	74.00	-34.98	Vertical
5	2376.9221	45.64	-1.09	44.55	74.00	-29.45	Vertical
6	2508.9386	44.06	-0.39	43.67	74.00	-30.33	Vertical

- 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
11N HT20	MCH	Horizontal	PASS



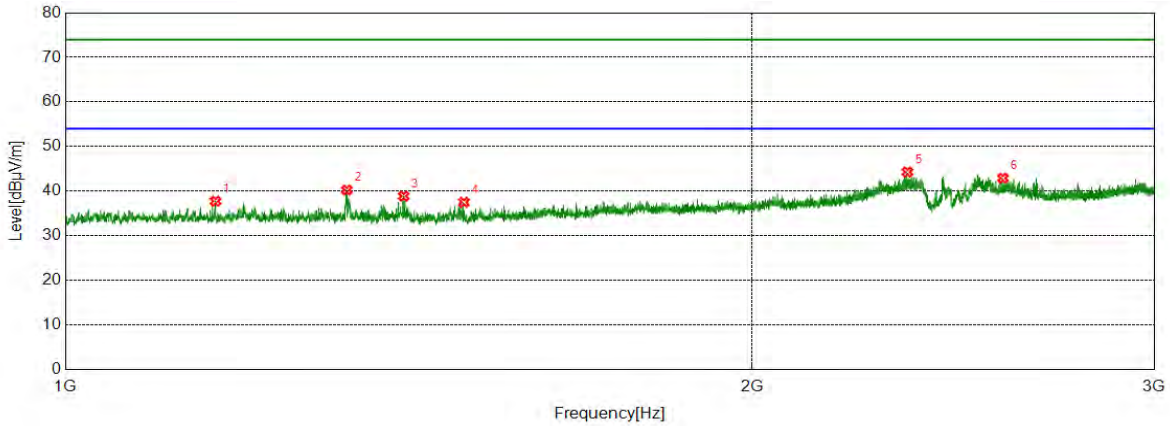
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1168.2710	41.86	-5.47	36.39	74.00	-37.61	Horizontal
2	1318.2898	41.16	-5.56	35.60	74.00	-38.40	Horizontal
3	1546.8184	42.25	-5.51	36.74	74.00	-37.26	Horizontal
4	2027.3784	41.83	-2.76	39.07	74.00	-34.93	Horizontal
5	2182.3978	41.43	-2.33	39.10	74.00	-34.90	Horizontal
6	2967.9960	41.89	1.08	42.97	74.00	-31.03	Horizontal

- 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
11N HT20	MCH	Vertical	PASS



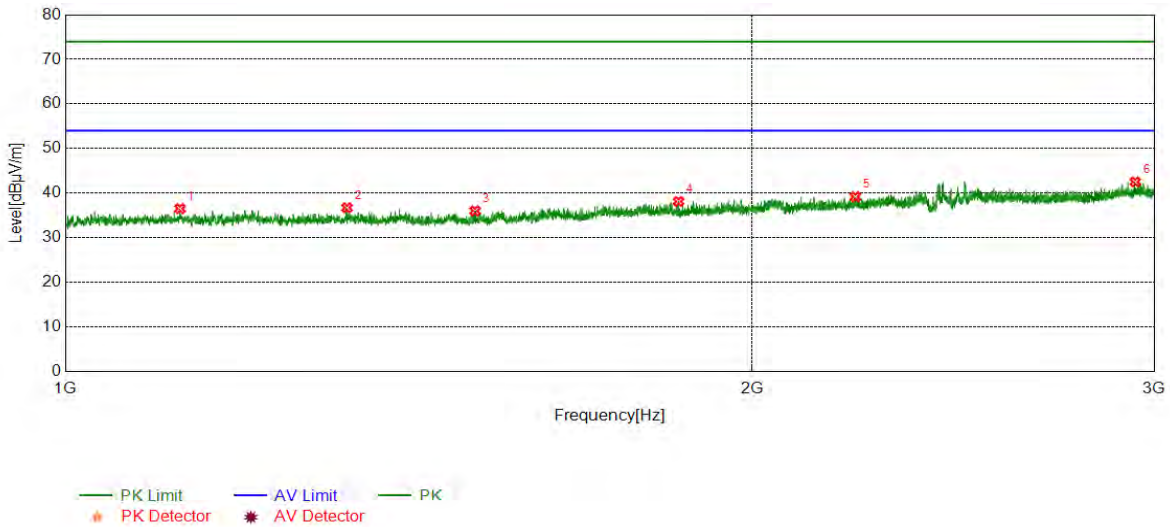
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1163.7705	43.23	-5.51	37.72	74.00	-36.28	Vertical
2	1328.5411	45.89	-5.67	40.22	74.00	-33.78	Vertical
3	1407.0509	44.30	-5.45	38.85	74.00	-35.15	Vertical
4	1495.0619	43.37	-5.90	37.47	74.00	-36.53	Vertical
5	2338.9174	46.09	-1.81	44.28	74.00	-29.72	Vertical
6	2575.6970	43.79	-0.90	42.89	74.00	-31.11	Vertical

- 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
11N HT20	HCH	Horizontal	PASS

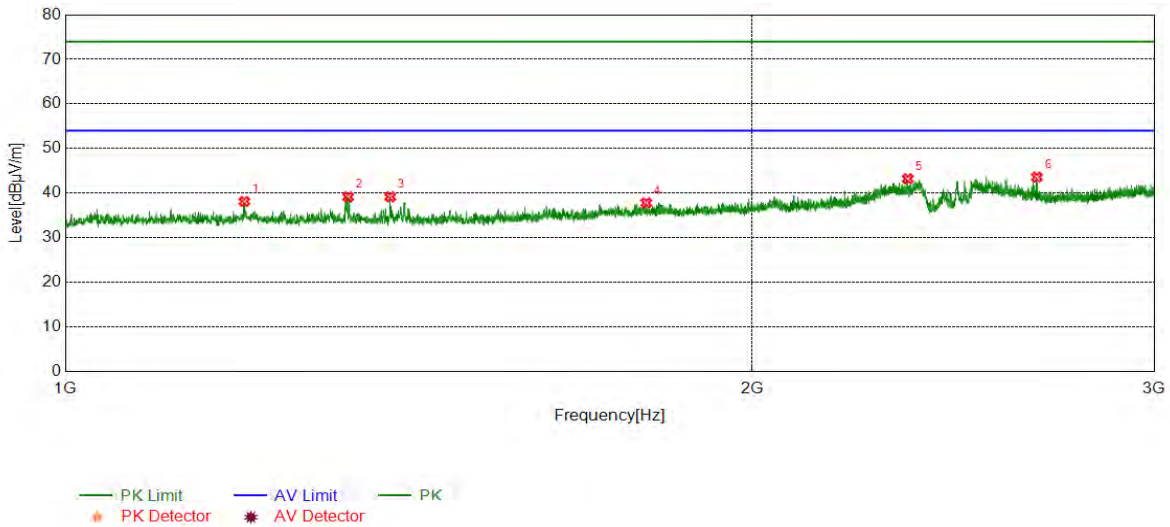


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1122.7653	41.96	-5.48	36.48	74.00	-37.52	Horizontal
2	1328.7911	42.35	-5.67	36.68	74.00	-37.32	Horizontal
3	1512.0640	41.62	-5.62	36.00	74.00	-38.00	Horizontal
4	1856.6071	41.80	-3.68	38.12	74.00	-35.88	Horizontal
5	2219.1524	41.39	-2.23	39.16	74.00	-34.84	Horizontal
6	2943.4929	41.96	0.54	42.50	74.00	-31.50	Horizontal

- 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
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	1198.0248	43.66	-5.56	38.10	74.00	-35.90	Vertical
2	1330.2913	44.80	-5.68	39.12	74.00	-34.88	Vertical
3	1388.0485	44.92	-5.77	39.15	74.00	-34.85	Vertical
4	1797.0996	41.60	-3.81	37.79	74.00	-36.21	Vertical
5	2339.9175	45.00	-1.81	43.19	74.00	-30.81	Vertical
6	2665.4582	44.27	-0.71	43.56	74.00	-30.44	Vertical

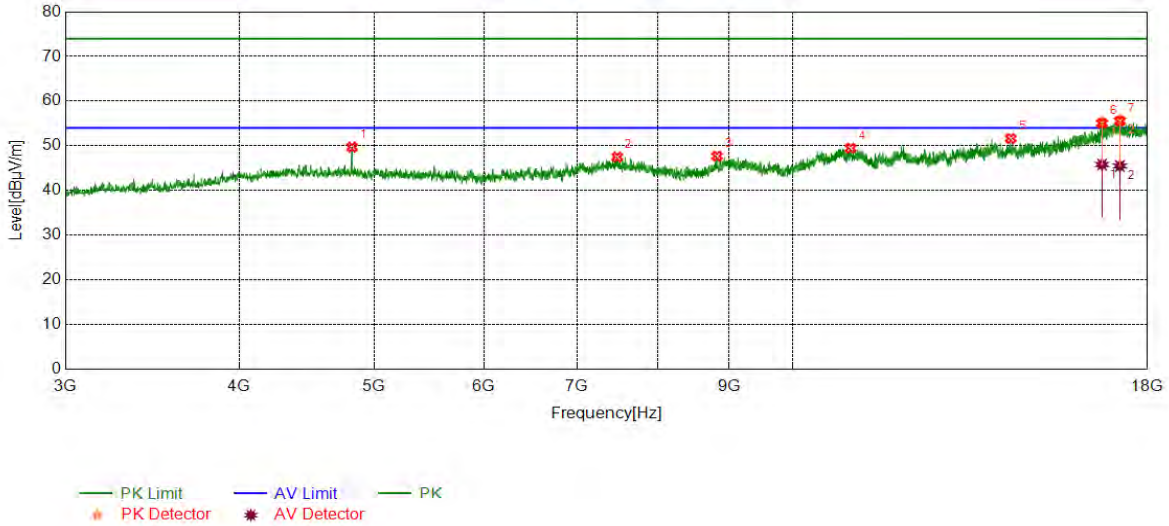
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 4. Peak: Peak detector.
 5. For below 3GHz part, filter losses were only considered in the spurious 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.



Part II: 3GHz~18GHz

HARMONICS AND SPURIOUS EMISSIONS

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4822.7278	44.33	5.35	49.68	74.00	-24.32	Horizontal
2	7481.8102	38.67	8.80	47.47	74.00	-26.53	Horizontal
3	8824.4781	39.45	8.22	47.67	74.00	-26.33	Horizontal
4	11011.0014	36.99	12.47	49.46	74.00	-24.54	Horizontal
5	14352.6691	37.74	13.88	51.62	74.00	-22.38	Horizontal
6	16692.9616	36.94	18.11	55.05	74.00	-18.95	Horizontal
7	17193.6492	37.31	18.24	55.55	74.00	-18.45	Horizontal

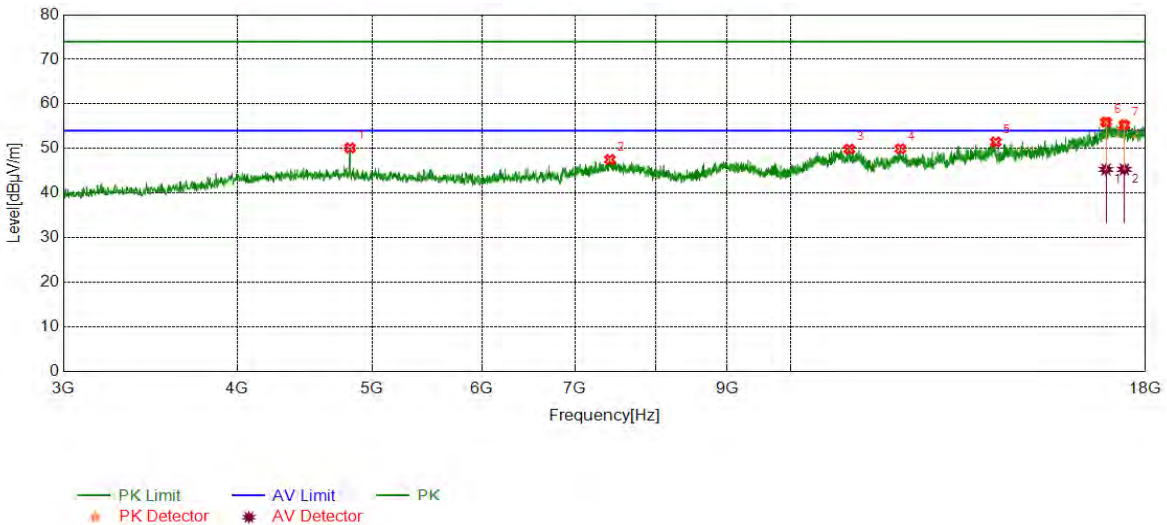
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16692.9616	27.68	18.11	45.79	54.00	-8.21	Horizontal
2	17193.6492	27.21	18.24	45.45	54.00	-8.55	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4822.7278	44.78	5.35	50.13	74.00	-23.87	Vertical
2	7416.1770	38.89	8.62	47.51	74.00	-26.49	Vertical
3	11024.1280	37.40	12.45	49.85	74.00	-24.15	Vertical
4	11995.4994	37.01	12.94	49.95	74.00	-24.05	Vertical
5	14047.0059	37.25	14.20	51.45	74.00	-22.55	Vertical
6	16859.8575	37.88	18.05	55.93	74.00	-18.07	Vertical
7	17379.2974	36.68	18.60	55.28	74.00	-18.72	Vertical

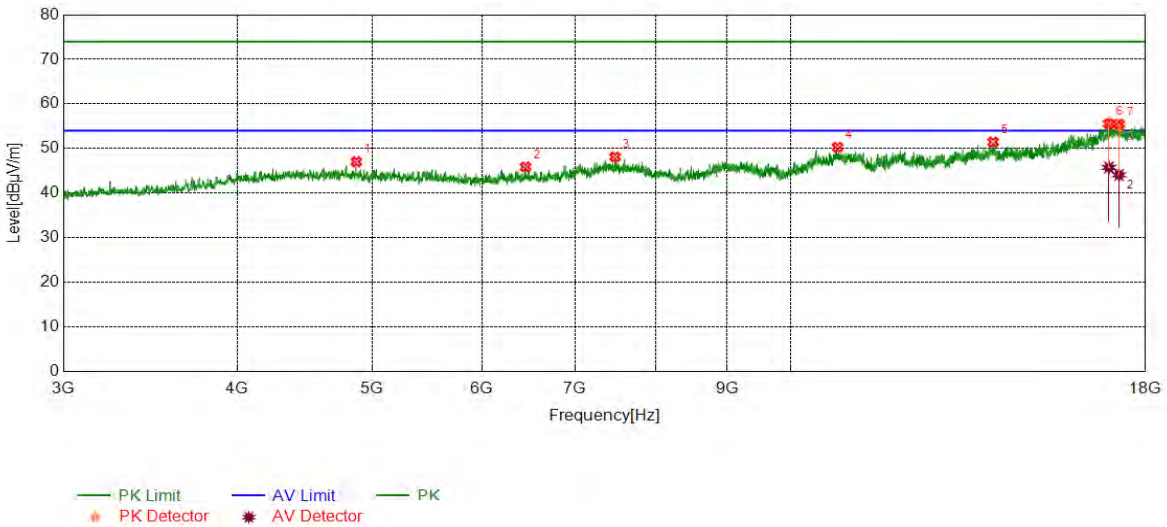
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16859.8575	27.24	18.05	45.29	54.00	-8.71	Vertical
2	17379.2974	26.72	18.60	45.32	54.00	-8.68	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4873.3592	41.70	5.32	47.02	74.00	-26.98	Horizontal
2	6448.5561	38.69	7.16	45.85	74.00	-28.15	Horizontal
3	7479.9350	39.26	8.84	48.10	74.00	-25.90	Horizontal
4	10808.4761	38.08	12.18	50.26	74.00	-23.74	Horizontal
5	13985.1231	37.46	13.98	51.44	74.00	-22.56	Horizontal
6	16940.4926	37.08	18.46	55.54	74.00	-18.46	Horizontal
7	17225.5282	38.00	17.44	55.44	74.00	-18.56	Horizontal

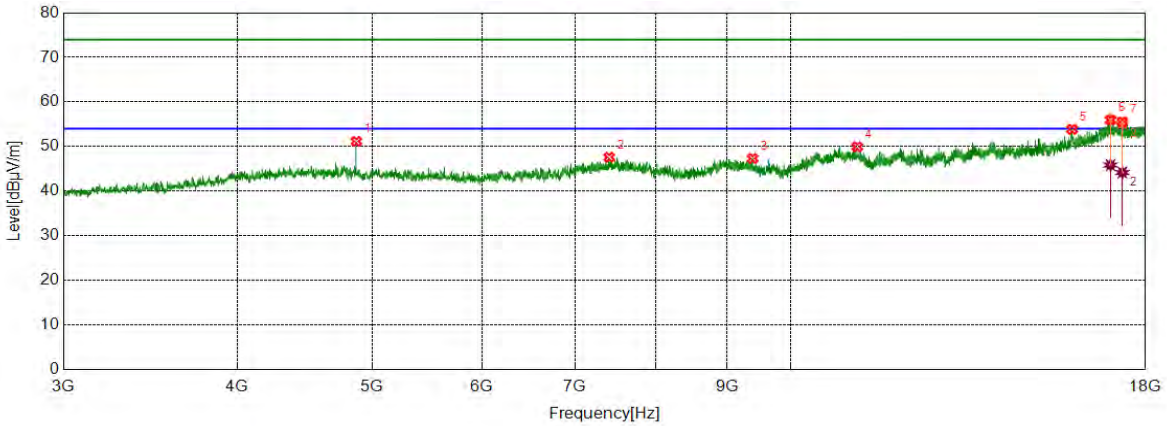
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16940.4926	27.28	18.46	45.74	54.00	-8.26	Horizontal
2	17225.5282	26.63	17.44	44.07	54.00	-9.93	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



— PK Limit — AV Limit — PK
★ PK Detector ✱ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4873.3592	45.83	5.32	51.15	74.00	-22.85	Vertical
2	7406.8009	38.91	8.67	47.58	74.00	-26.42	Vertical
3	9392.6741	38.82	8.49	47.31	74.00	-26.69	Vertical
4	11168.5211	37.97	11.96	49.93	74.00	-24.07	Vertical
5	15940.9926	37.86	15.98	53.84	74.00	-20.16	Vertical
6	16985.4982	37.15	18.77	55.92	74.00	-18.08	Vertical
7	17321.1651	37.79	17.75	55.54	74.00	-18.46	Vertical

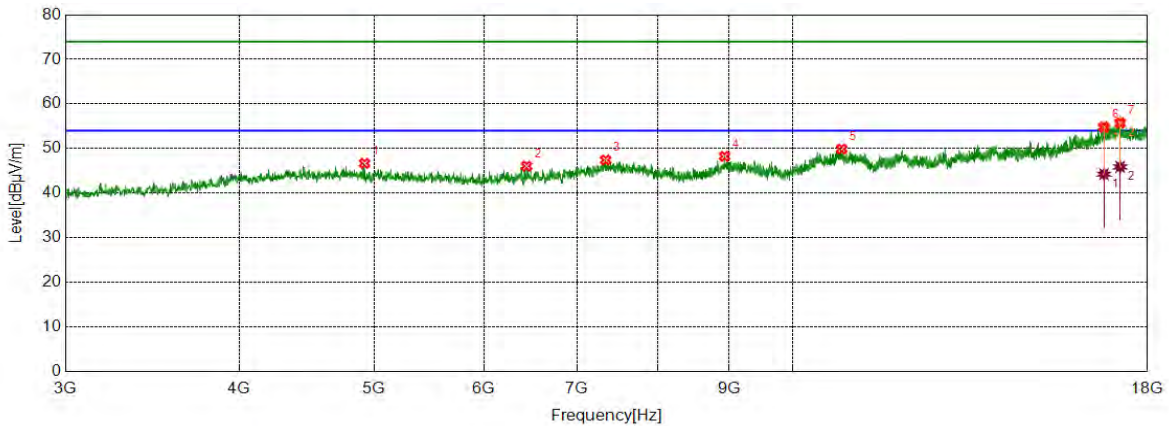
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16985.4982	27.05	18.77	45.82	54.00	-8.18	Vertical
2	17321.1651	26.40	17.75	44.15	54.00	-9.85	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



— PK Limit — AV Limit — PK
★ PK Detector ★ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4923.9905	41.48	5.18	46.66	74.00	-27.34	Horizontal
2	6439.1799	38.93	7.11	46.04	74.00	-27.96	Horizontal
3	7339.2924	38.83	8.58	47.41	74.00	-26.59	Horizontal
4	8935.1169	39.38	8.86	48.24	74.00	-25.76	Horizontal
5	10847.8560	37.51	12.37	49.88	74.00	-24.12	Horizontal
6	16747.3434	37.36	17.47	54.83	74.00	-19.17	Horizontal
7	17201.1501	37.43	18.30	55.73	74.00	-18.27	Horizontal

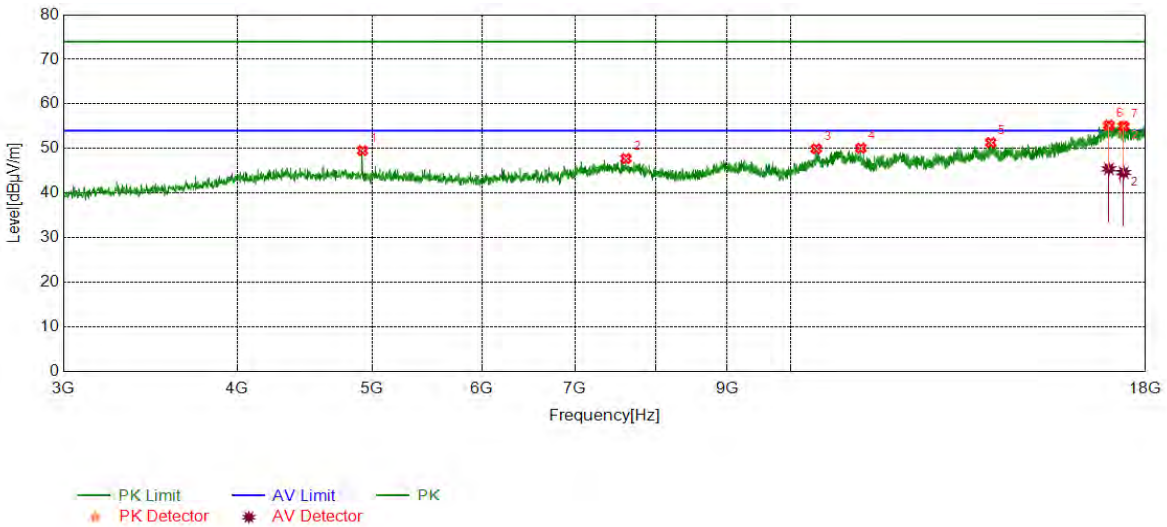
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16747.3434	26.77	17.47	44.24	54.00	-9.76	Horizontal
2	17201.1501	27.56	18.30	45.86	54.00	-8.14	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4923.9905	44.34	5.18	49.52	74.00	-24.48	Vertical
2	7614.9519	39.18	8.55	47.73	74.00	-26.27	Vertical
3	10435.3044	38.48	11.46	49.94	74.00	-24.06	Vertical
4	11234.1543	38.36	11.70	50.06	74.00	-23.94	Vertical
5	13930.7413	36.86	14.45	51.31	74.00	-22.69	Vertical
6	16940.4926	36.77	18.46	55.23	74.00	-18.77	Vertical
7	17358.6698	37.02	17.96	54.98	74.00	-19.02	Vertical

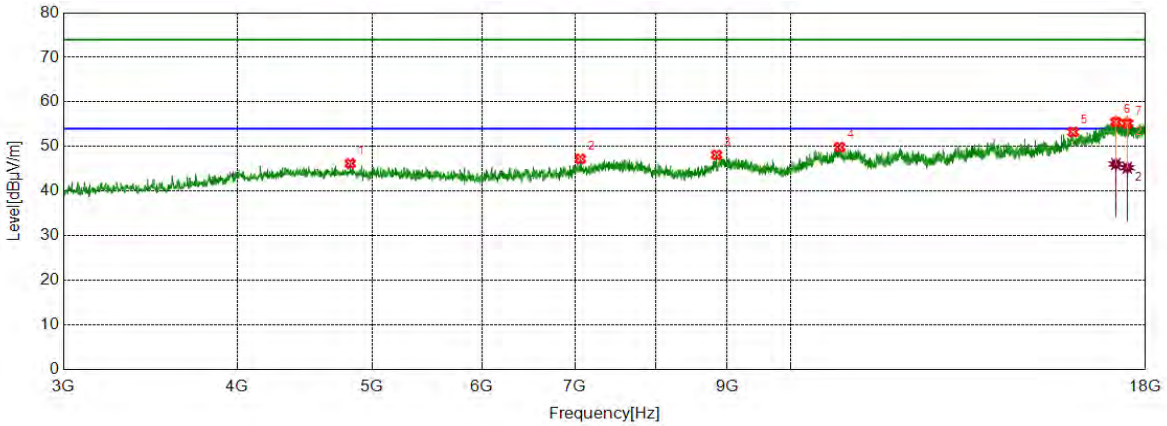
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16940.4926	26.95	18.46	45.41	54.00	-8.59	Vertical
2	17358.6698	26.64	17.96	44.60	54.00	-9.40	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



— PK Limit — AV Limit — PK
★ PK Detector ★ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4824.6031	40.77	5.40	46.17	74.00	-27.83	Horizontal
2	7061.7577	39.04	8.16	47.20	74.00	-26.80	Horizontal
3	8848.8561	39.84	8.26	48.10	74.00	-25.90	Horizontal
4	10845.9807	37.53	12.32	49.85	74.00	-24.15	Horizontal
5	15965.3707	37.29	15.93	53.22	74.00	-20.78	Horizontal
6	17137.3922	37.28	18.20	55.48	74.00	-18.52	Horizontal
7	17463.6830	37.39	17.74	55.13	74.00	-18.87	Horizontal

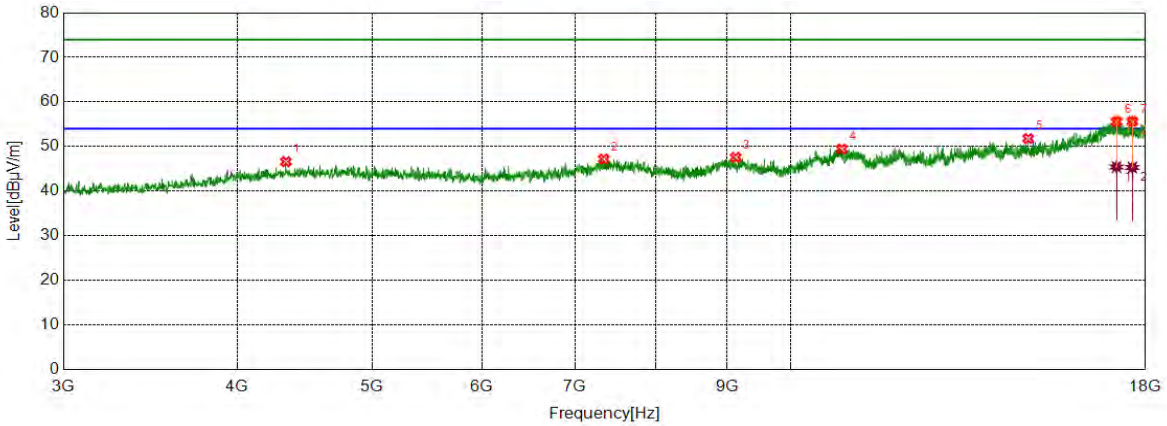
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17137.3922	27.85	18.20	46.05	54.00	-7.95	Horizontal
2	17463.6830	27.48	17.74	45.22	54.00	-8.78	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4337.0421	41.30	5.28	46.58	74.00	-27.42	Vertical
2	7341.1676	38.61	8.56	47.17	74.00	-26.83	Vertical
3	9132.0165	38.78	8.76	47.54	74.00	-26.46	Vertical
4	10887.2359	37.21	12.24	49.45	74.00	-24.55	Vertical
5	14821.4777	37.27	14.51	51.78	74.00	-22.22	Vertical
6	17156.1445	37.30	18.25	55.55	74.00	-18.45	Vertical
7	17611.8265	37.82	17.82	55.64	74.00	-18.36	Vertical

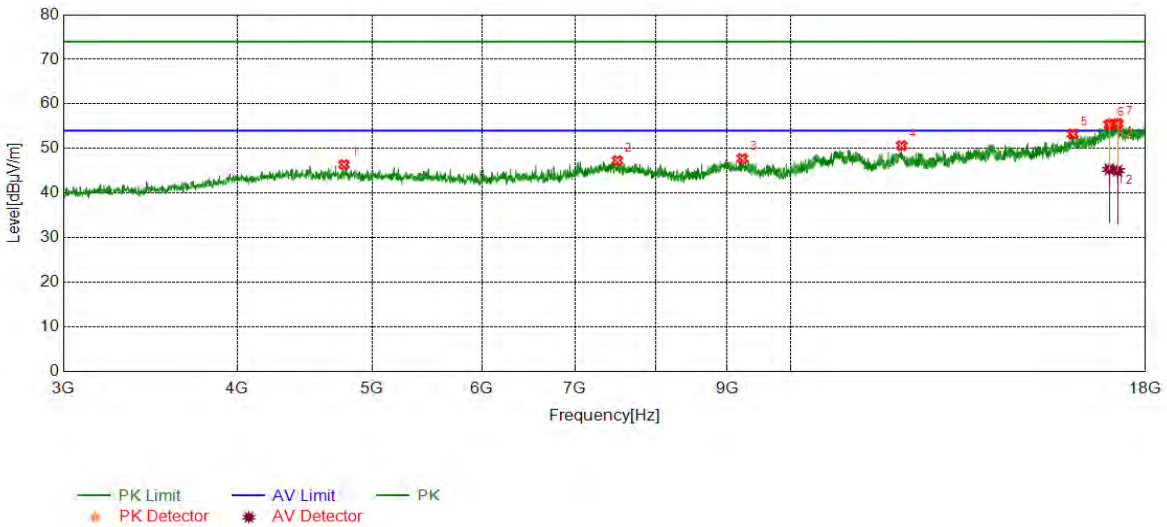
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17156.1445	27.14	18.25	45.39	54.00	-8.61	Vertical
2	17611.8265	27.46	17.82	45.28	54.00	-8.72	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4773.9717	40.90	5.51	46.41	74.00	-27.59	Horizontal
2	7508.0635	38.68	8.61	47.29	74.00	-26.71	Horizontal
3	9233.2792	39.02	8.74	47.76	74.00	-26.24	Horizontal
4	12019.8775	37.93	12.71	50.64	74.00	-23.36	Horizontal
5	15955.9945	37.19	16.04	53.23	74.00	-20.77	Horizontal
6	16951.7440	36.98	18.40	55.38	74.00	-18.62	Horizontal
7	17184.2730	37.50	18.10	55.60	74.00	-18.40	Horizontal

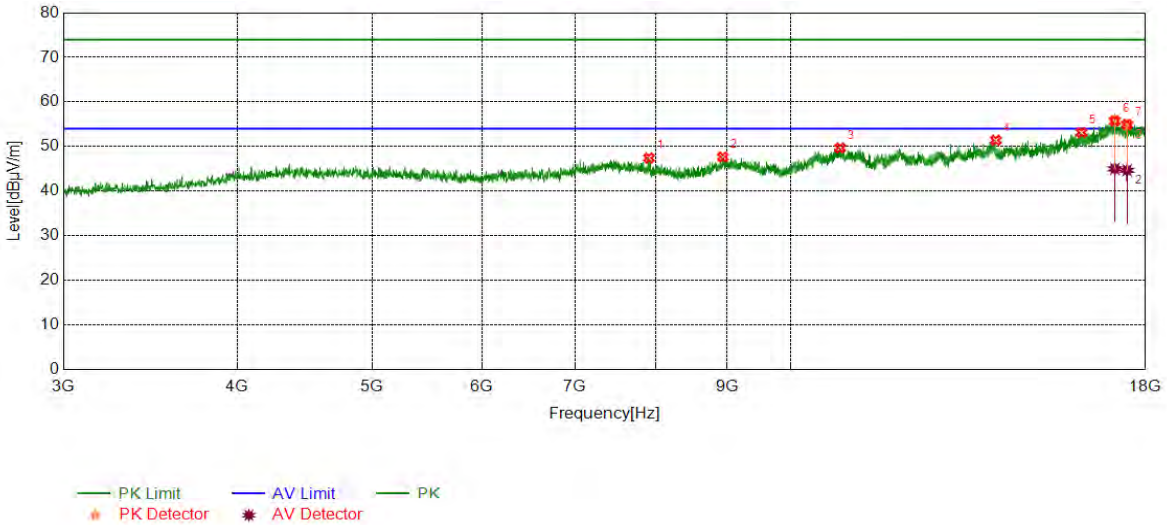
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16951.7440	26.91	18.40	45.31	54.00	-8.69	Horizontal
2	17184.2730	26.93	18.10	45.03	54.00	-8.97	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7911.2389	39.62	7.78	47.40	74.00	-26.60	Vertical
2	8940.7426	38.78	8.85	47.63	74.00	-26.37	Vertical
3	10857.2322	37.43	12.24	49.67	74.00	-24.33	Vertical
4	14048.8811	37.20	14.20	51.40	74.00	-22.60	Vertical
5	16188.5236	36.53	16.60	53.13	74.00	-20.87	Vertical
6	17107.3884	37.65	18.10	55.75	74.00	-18.25	Vertical
7	17458.0573	37.17	17.76	54.93	74.00	-19.07	Vertical

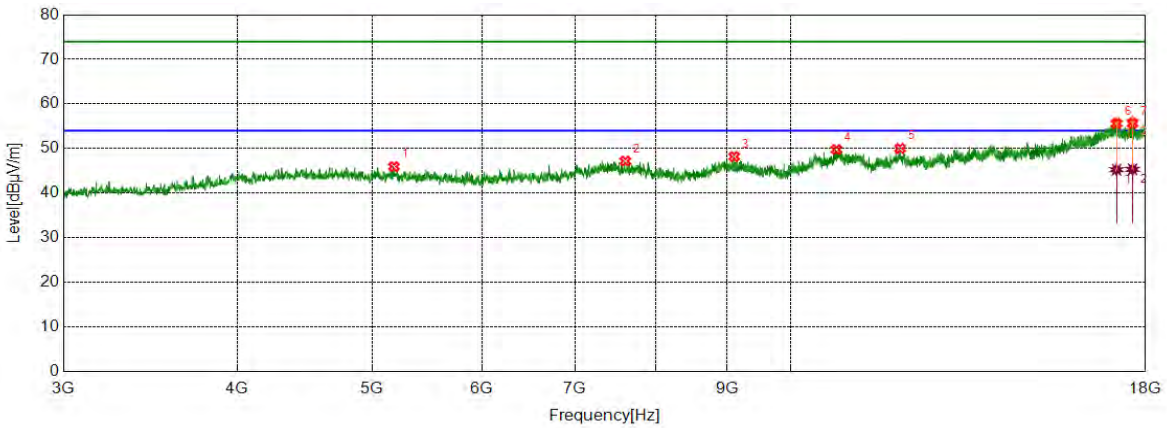
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17107.3884	26.89	18.10	44.99	54.00	-9.01	Vertical
2	17458.0573	26.90	17.76	44.66	54.00	-9.34	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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	HCH	Horizontal	PASS



— PK Limit — AV Limit — PK
★ PK Detector ★ AV Detector

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	5186.5233	40.79	5.13	45.92	74.00	-28.08	Horizontal
2	7607.4509	38.50	8.66	47.16	74.00	-26.84	Horizontal
3	9109.5137	39.21	8.98	48.19	74.00	-25.81	Horizontal
4	10789.7237	37.64	12.10	49.74	74.00	-24.26	Horizontal
5	11987.9985	37.14	12.87	50.01	74.00	-23.99	Horizontal
6	17156.1445	37.38	18.25	55.63	74.00	-18.37	Horizontal
7	17617.4522	37.95	17.68	55.63	74.00	-18.37	Horizontal

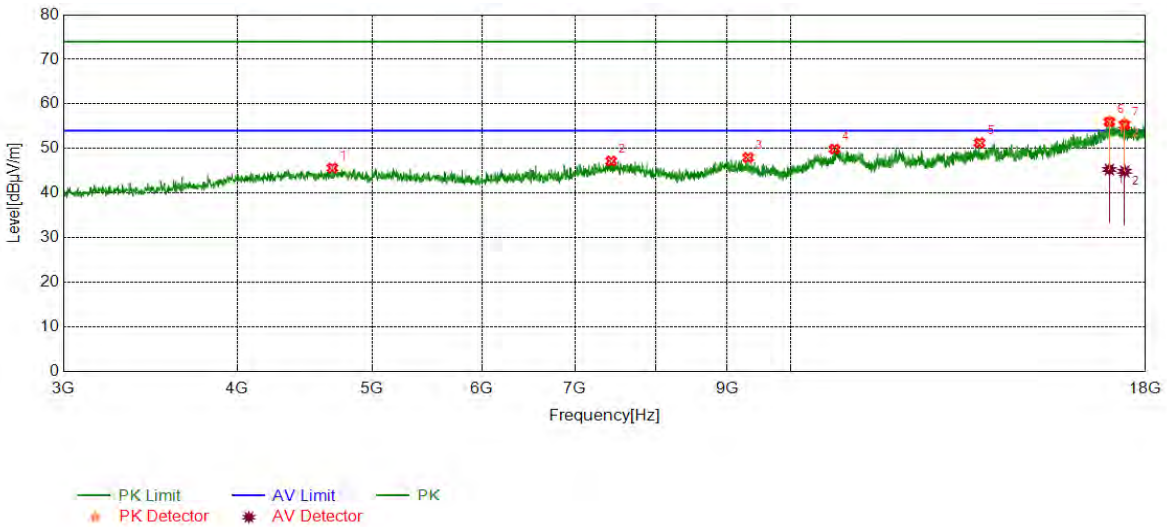
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17156.1445	26.99	18.25	45.24	54.00	-8.76	Horizontal
2	17617.4522	27.63	17.68	45.31	54.00	-8.69	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4683.9605	40.26	5.36	45.62	74.00	-28.38	Vertical
2	7431.1789	38.62	8.55	47.17	74.00	-26.83	Vertical
3	9323.2904	39.31	8.64	47.95	74.00	-26.05	Vertical
4	10755.9695	37.80	12.07	49.87	74.00	-24.13	Vertical
5	13673.8342	37.93	13.34	51.27	74.00	-22.73	Vertical
6	16953.6192	37.54	18.46	56.00	74.00	-18.00	Vertical
7	17386.7984	37.23	18.04	55.27	74.00	-18.73	Vertical

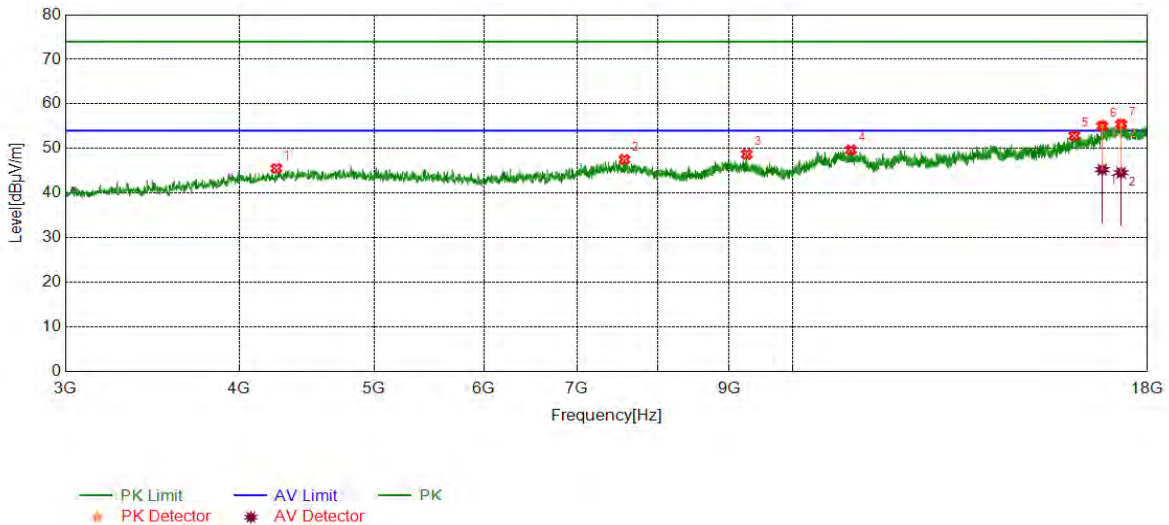
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16953.6192	26.81	18.46	45.27	54.00	-8.73	Vertical
2	17386.7984	26.83	18.04	44.87	54.00	-9.13	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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
11N HT20	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4254.5318	40.55	4.96	45.51	74.00	-28.49	Horizontal
2	7569.9462	38.99	8.55	47.54	74.00	-26.46	Horizontal
3	9270.7838	39.92	8.78	48.70	74.00	-25.30	Horizontal
4	11016.6271	37.15	12.52	49.67	74.00	-24.33	Horizontal
5	15946.6183	36.80	16.04	52.84	74.00	-21.16	Horizontal
6	16696.7121	37.02	18.00	55.02	74.00	-18.98	Horizontal
7	17227.4034	38.08	17.37	55.45	74.00	-18.55	Horizontal

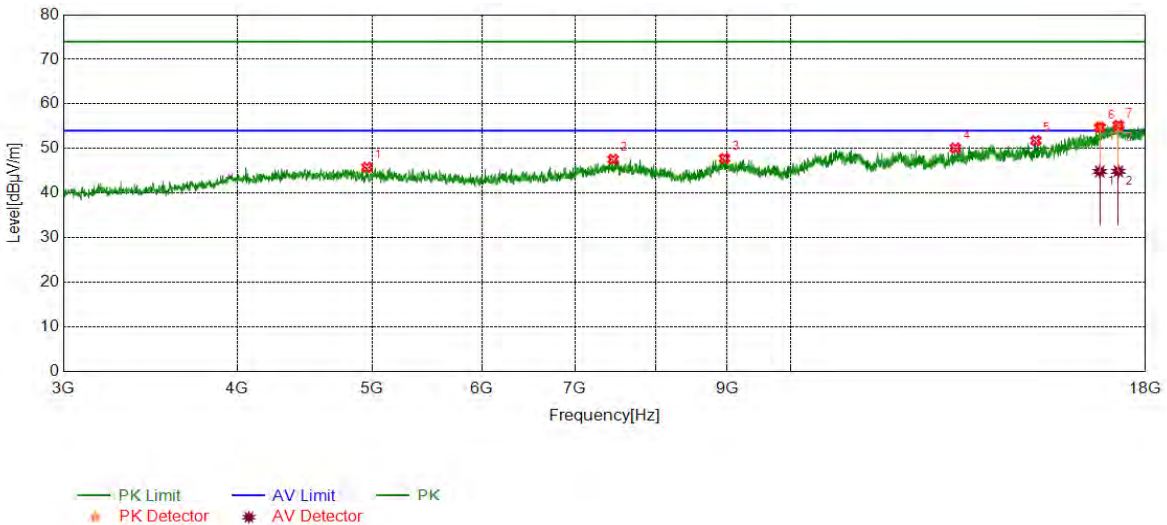
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16696.7121	27.25	18.00	45.25	54.00	-8.75	Horizontal
2	17227.4034	27.20	17.37	44.57	54.00	-9.43	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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
11N HT20	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4959.6200	40.16	5.61	45.77	74.00	-28.23	Vertical
2	7455.5569	38.94	8.62	47.56	74.00	-26.44	Vertical
3	8965.1206	38.78	8.98	47.76	74.00	-26.24	Vertical
4	13139.3924	37.78	12.32	50.10	74.00	-23.90	Vertical
5	15009.0011	37.53	14.23	51.76	74.00	-22.24	Vertical
6	16685.4607	36.73	18.02	54.75	74.00	-19.25	Vertical
7	17206.7758	37.20	18.00	55.20	74.00	-18.80	Vertical

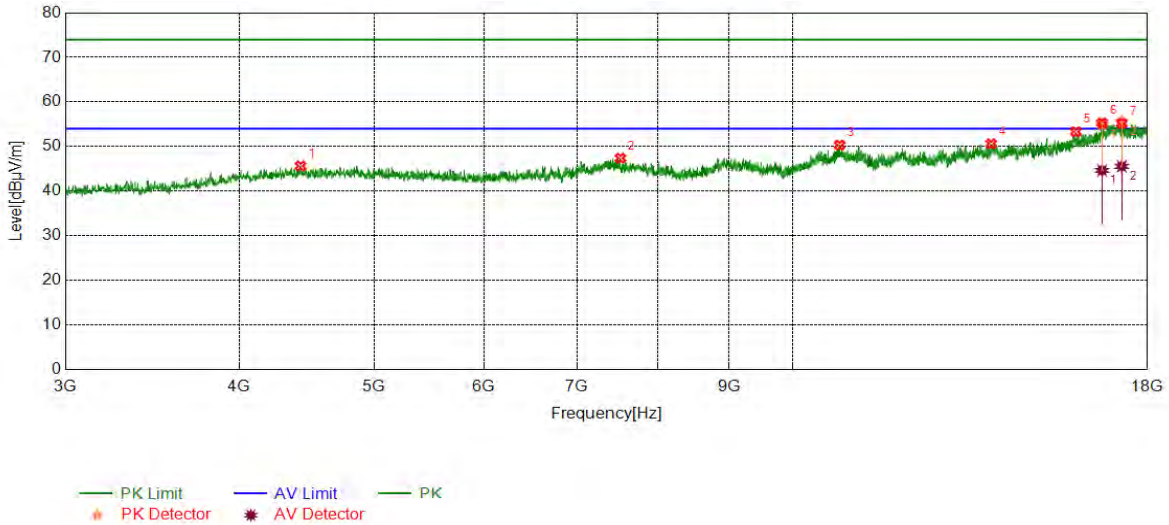
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16685.4607	26.82	18.02	44.84	54.00	-9.16	Vertical
2	17206.7758	26.88	18.00	44.88	54.00	-9.12	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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
11N HT20	MCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4428.9286	40.53	5.09	45.62	74.00	-28.38	Horizontal
2	7521.1901	38.61	8.76	47.37	74.00	-26.63	Horizontal
3	10812.2265	38.11	12.21	50.32	74.00	-23.68	Horizontal
4	13893.2367	36.53	14.06	50.59	74.00	-23.41	Horizontal
5	15985.9983	37.57	15.72	53.29	74.00	-20.71	Horizontal
6	16694.8369	37.22	18.06	55.28	74.00	-18.72	Horizontal
7	17246.1558	37.34	17.84	55.18	74.00	-18.82	Horizontal

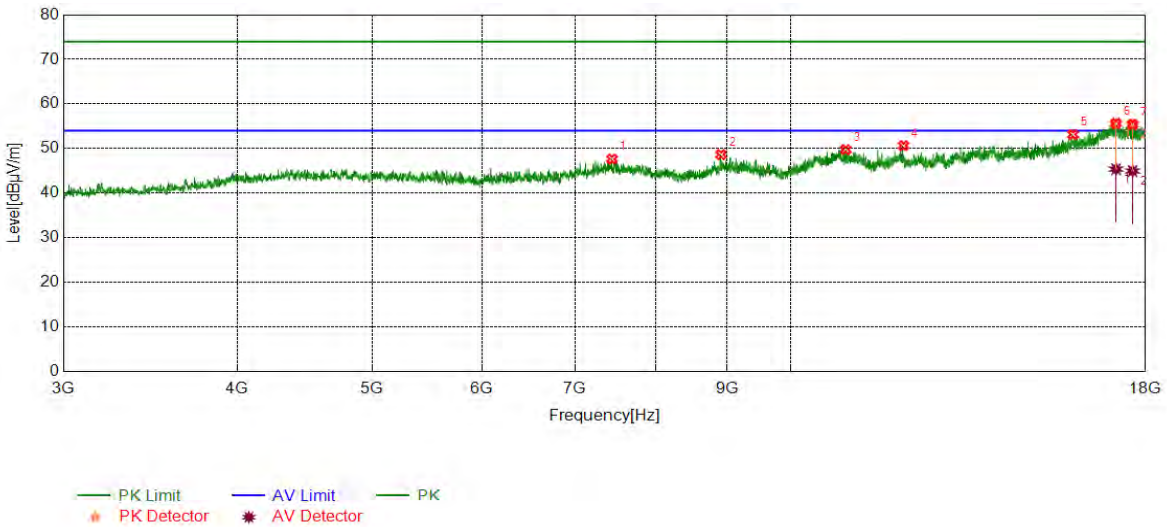
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16694.8369	26.57	18.06	44.63	54.00	-9.37	Horizontal
2	17246.1558	27.69	17.84	45.53	54.00	-8.47	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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
11N HT20	MCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7442.4303	38.98	8.65	47.63	74.00	-26.37	Vertical
2	8914.4893	40.09	8.55	48.64	74.00	-25.36	Vertical
3	10956.6196	37.43	12.31	49.74	74.00	-24.26	Vertical
4	12057.3822	38.00	12.61	50.61	74.00	-23.39	Vertical
5	15963.4954	37.19	15.95	53.14	74.00	-20.86	Vertical
6	17141.1426	37.36	18.28	55.64	74.00	-18.36	Vertical
7	17619.3274	37.77	17.64	55.41	74.00	-18.59	Vertical

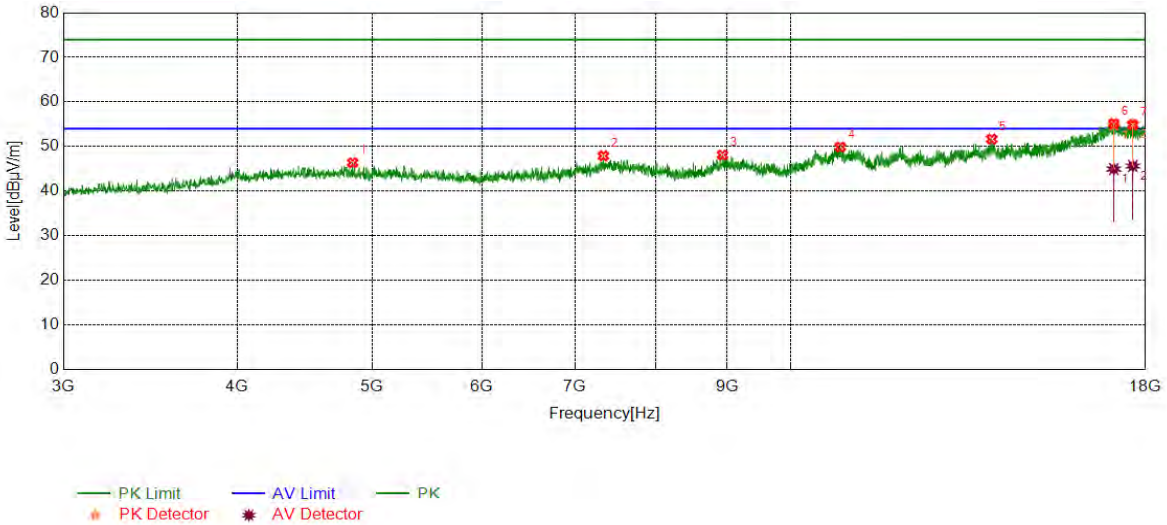
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17141.1426	27.08	18.28	45.36	54.00	-8.64	Vertical
2	17619.3274	27.30	17.64	44.94	54.00	-9.06	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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
11N HT20	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4843.3554	40.90	5.45	46.35	74.00	-27.65	Horizontal
2	7335.5419	39.28	8.60	47.88	74.00	-26.12	Horizontal
3	8935.1169	39.22	8.86	48.08	74.00	-25.92	Horizontal
4	10860.9826	37.71	12.17	49.88	74.00	-24.12	Horizontal
5	13955.1194	37.59	14.06	51.65	74.00	-22.35	Horizontal
6	17079.2599	36.41	18.75	55.16	74.00	-18.84	Horizontal
7	17624.9531	37.46	17.42	54.88	74.00	-19.12	Horizontal

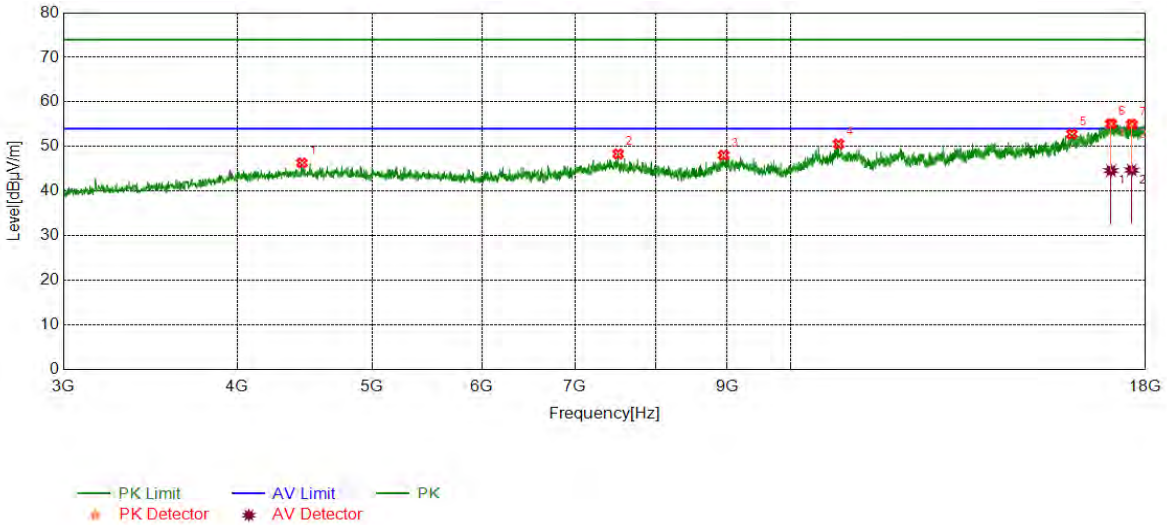
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17079.2599	26.19	18.75	44.94	54.00	-9.06	Horizontal
2	17624.9531	28.19	17.42	45.61	54.00	-8.39	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF 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
11N HT20	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4453.3067	40.68	5.62	46.30	74.00	-27.70	Vertical
2	7517.4397	39.59	8.73	48.32	74.00	-25.68	Vertical
3	8951.9940	38.98	9.06	48.04	74.00	-25.96	Vertical
4	10829.1036	38.49	12.06	50.55	74.00	-23.45	Vertical
5	15933.4917	36.88	15.90	52.78	74.00	-21.22	Vertical
6	16998.6248	36.50	18.61	55.11	74.00	-18.89	Vertical
7	17594.9494	37.65	17.35	55.00	74.00	-19.00	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16998.6248	25.97	18.61	44.58	54.00	-9.42	Vertical
2	17594.9494	27.34	17.35	44.69	54.00	-9.31	Vertical

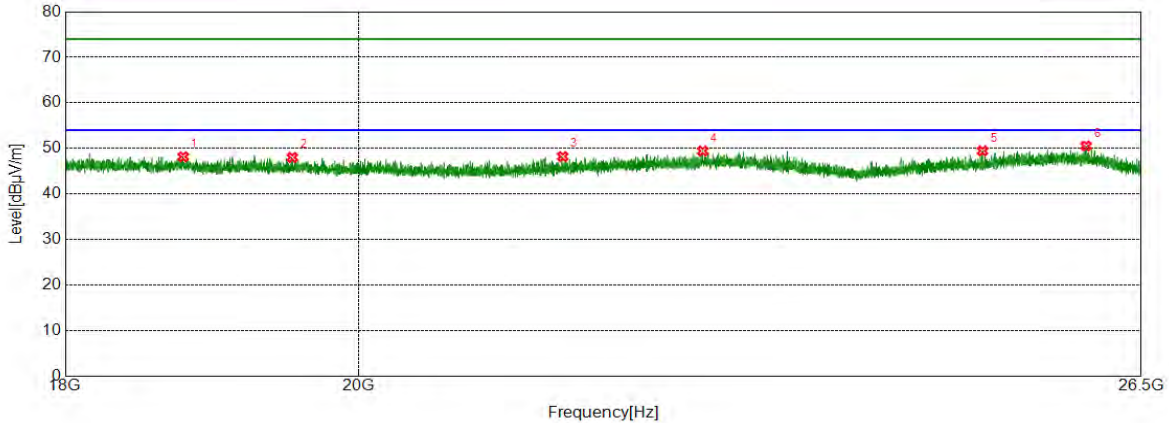
- Note: 1. Measurement = Reading Level + Correct Factor;
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz;
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.);
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses;
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part III: 18GHz~26.5GHz

SPURIOUS EMISSIONS 18GHz TO 26.5GHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



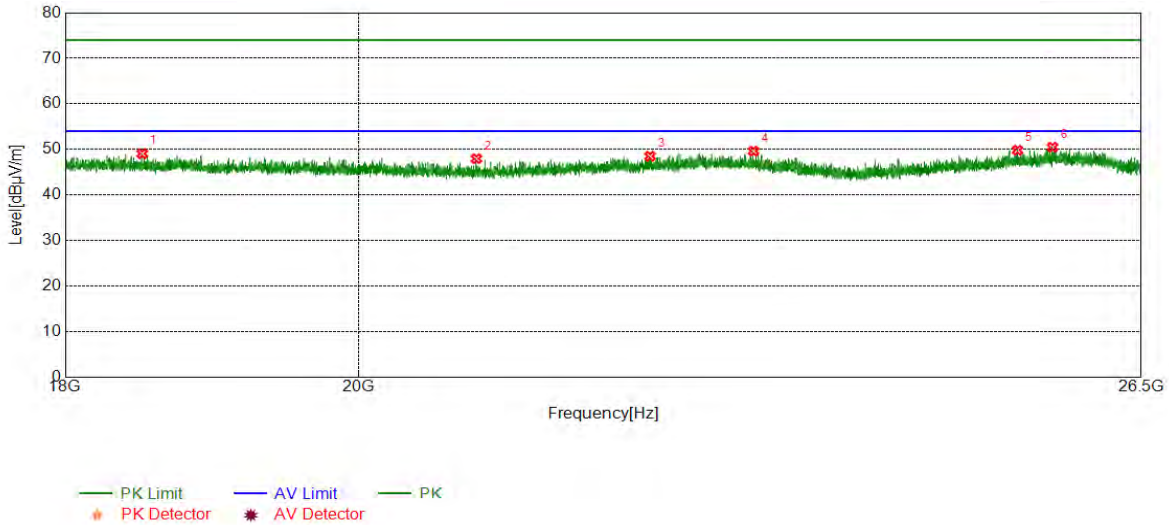
— PK Limit — AV Limit — PK
* PK Detector * AV Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	18779.5280	49.21	-1.04	48.17	74.00	-25.83	Horizontal
2	19531.0031	48.73	-0.71	48.02	74.00	-25.98	Horizontal
3	21525.3025	48.69	-0.48	48.21	74.00	-25.79	Horizontal
4	22636.3636	48.49	0.94	49.43	74.00	-24.57	Horizontal
5	25032.7533	49.38	0.08	49.46	74.00	-24.54	Horizontal
6	25981.4481	48.91	1.63	50.54	74.00	-23.46	Horizontal

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	18504.9505	50.01	-0.94	49.07	74.00	-24.93	Vertical
2	20867.3367	48.89	-0.92	47.97	74.00	-26.03	Vertical
3	22212.1712	48.07	0.43	48.50	74.00	-25.50	Vertical
4	23053.7554	48.54	1.08	49.62	74.00	-24.38	Vertical
5	25348.9849	49.23	0.60	49.83	74.00	-24.17	Vertical
6	25670.3170	49.37	1.13	50.50	74.00	-23.50	Vertical

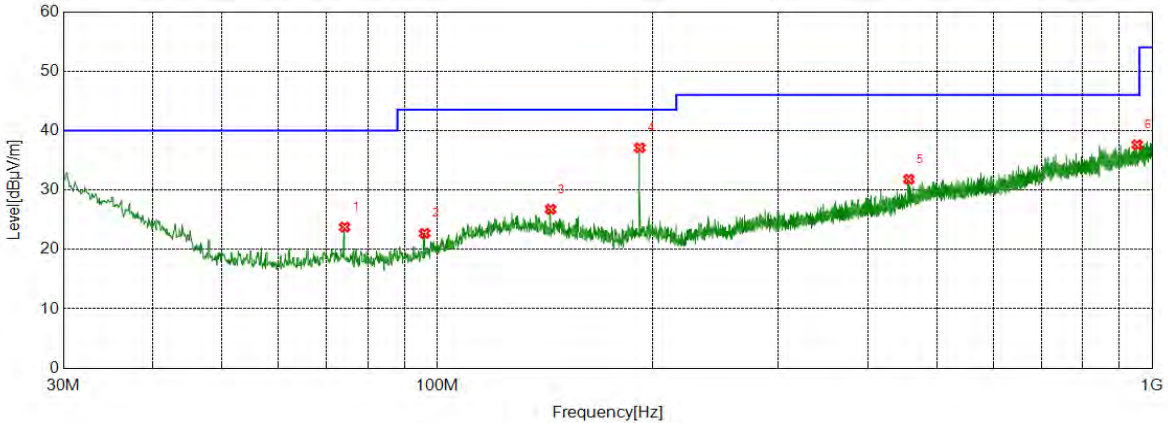
- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. Measurement = Reading Level + Correct Factor.
 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions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



Part IV: 30MHz~1GHz

SPURIOUS EMISSIONS 30M TO 1GHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



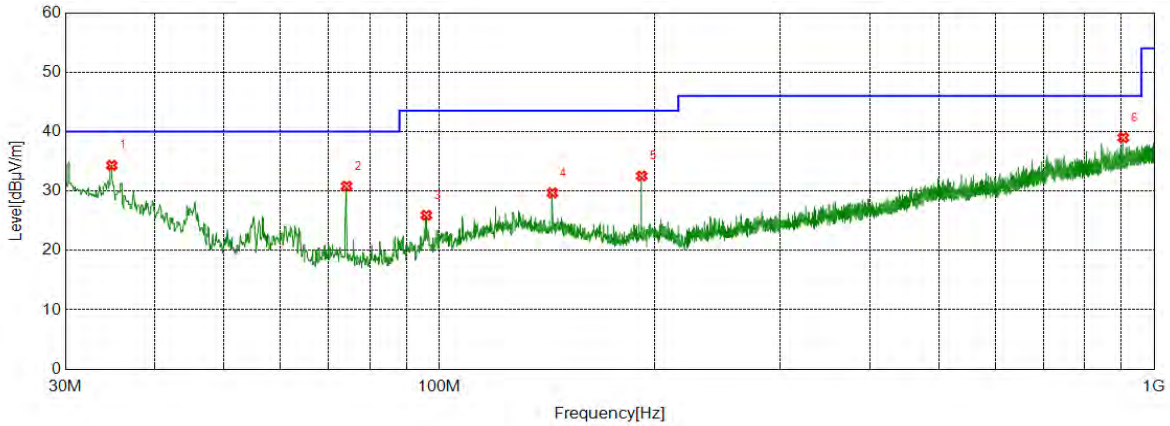
— QP Limit — PK
○ QP Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	74.2364	9.15	14.61	23.76	40.00	-16.24	Horizontal
2	96.0636	6.80	15.91	22.71	43.50	-20.79	Horizontal
3	144.0834	7.02	19.74	26.76	43.50	-16.74	Horizontal
4	192.0062	18.44	18.67	37.11	43.50	-6.39	Horizontal
5	456.8427	7.26	24.54	31.80	46.00	-14.20	Horizontal
6	953.0473	5.82	31.80	37.62	46.00	-8.38	Horizontal

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



Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



— QP Limit — PK
○ QP Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	34.8505	10.36	23.96	34.32	40.00	-5.68	Vertical
2	74.2364	16.21	14.61	30.82	40.00	-9.18	Vertical
3	95.9666	10.04	15.88	25.92	43.50	-17.58	Vertical
4	143.9864	9.95	19.74	29.69	43.50	-13.81	Vertical
5	192.0062	13.87	18.67	32.54	43.50	-10.96	Vertical
6	905.5126	7.83	31.16	38.99	46.00	-7.01	Vertical

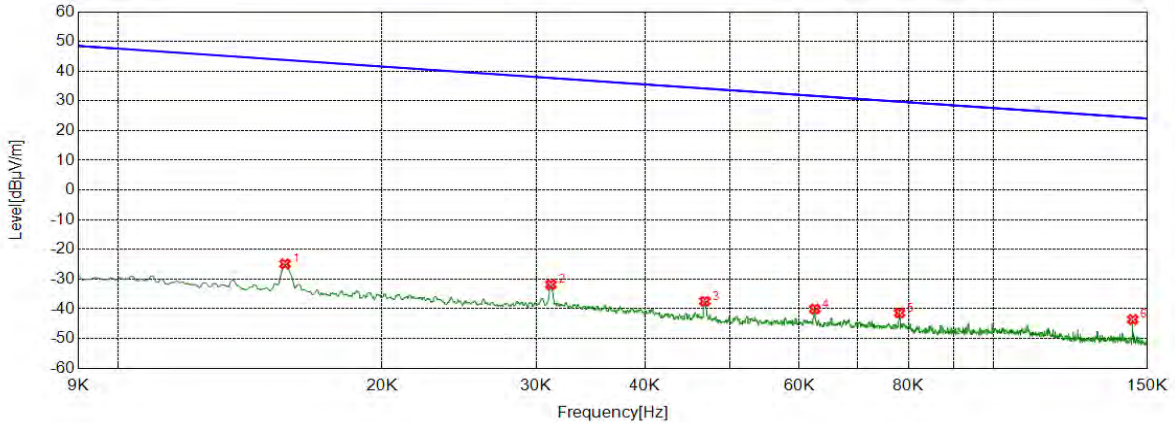
Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.



Part V: 9KHz~30MHz

SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

Test Mode	Channel	Frequency Range	Verdict
11B	LCH	9kHz~150kHz	PASS



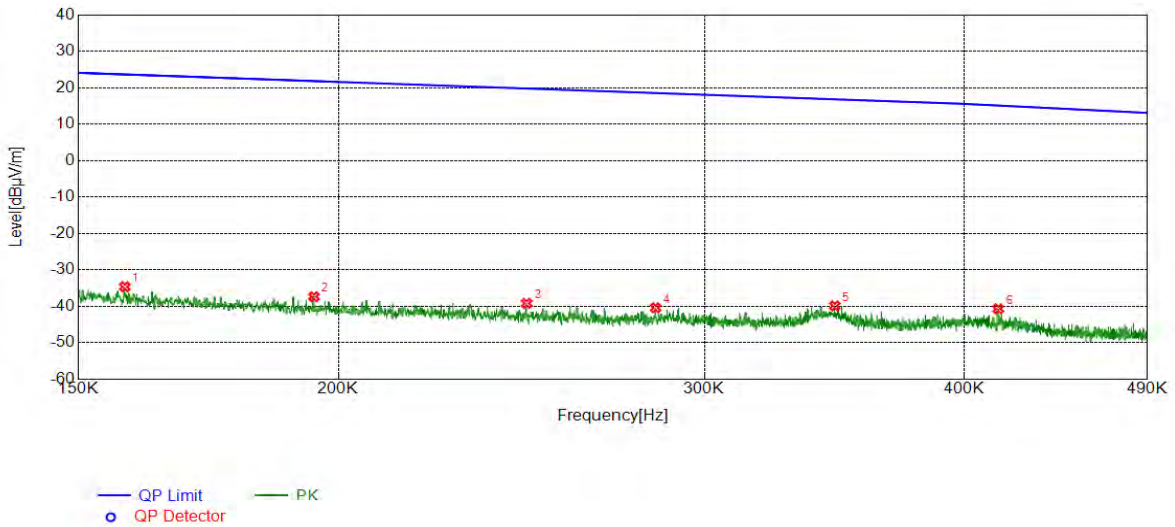
— QP Limit — PK
○ QP Detector

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.0155	36.10	-60.98	-24.88	43.77	-68.65	Horizontal
2	0.0312	29.07	-60.92	-31.85	37.72	-69.57	Horizontal
3	0.0468	23.57	-61.02	-37.45	34.19	-71.64	Horizontal
4	0.0625	21.17	-61.23	-40.06	31.68	-71.74	Horizontal
5	0.0781	19.95	-61.34	-41.39	29.75	-71.14	Horizontal
6	0.1443	17.64	-61.25	-43.61	24.42	-68.03	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



Test Mode	Channel	Frequency Range	Verdict
11B	LCH	150kHz~490kHz	PASS

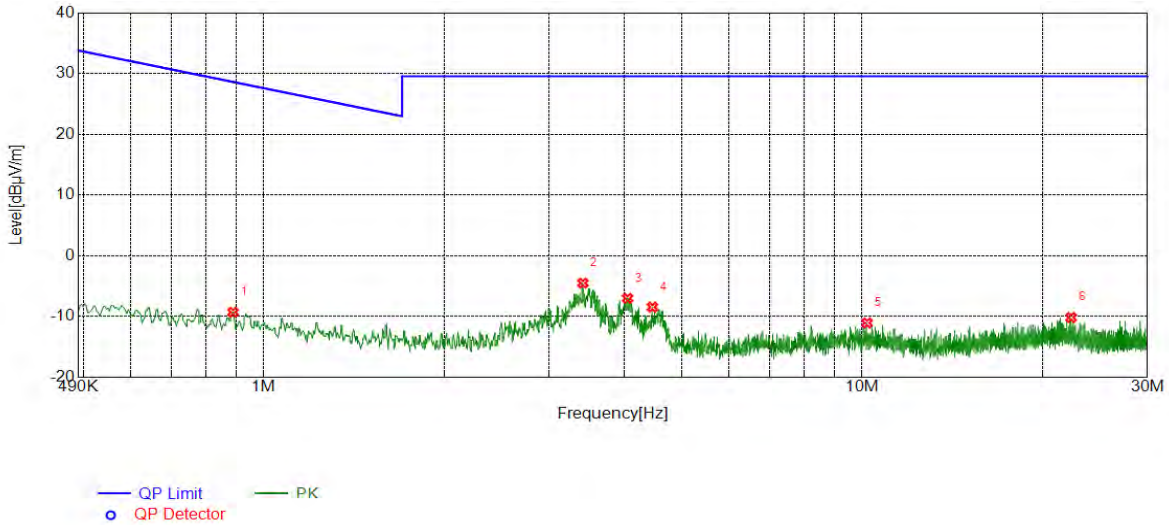


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.1579	26.64	-61.28	-34.64	23.64	-58.28	Vertical
2	0.1947	23.72	-61.09	-37.37	21.82	-59.19	Vertical
3	0.2464	21.62	-60.82	-39.20	19.77	-58.97	Vertical
4	0.2842	20.36	-60.78	-40.42	18.53	-58.95	Vertical
5	0.3466	20.84	-60.72	-39.88	16.80	-56.68	Vertical
6	0.4153	19.97	-60.67	-40.70	15.10	-55.80	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



Test Mode	Channel	Frequency Range	Verdict
11B	LCH	490kHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.8884	11.19	-20.50	-9.31	28.63	-37.94	Vertical
2	3.4147	15.78	-20.29	-4.51	29.54	-34.05	Vertical
3	4.0552	13.03	-20.05	-7.02	29.54	-36.56	Vertical
4	4.4624	11.66	-20.13	-8.47	29.54	-38.01	Vertical
5	10.1939	7.73	-18.81	-11.08	29.54	-40.62	Vertical
6	22.3502	7.50	-17.66	-10.16	29.54	-39.70	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

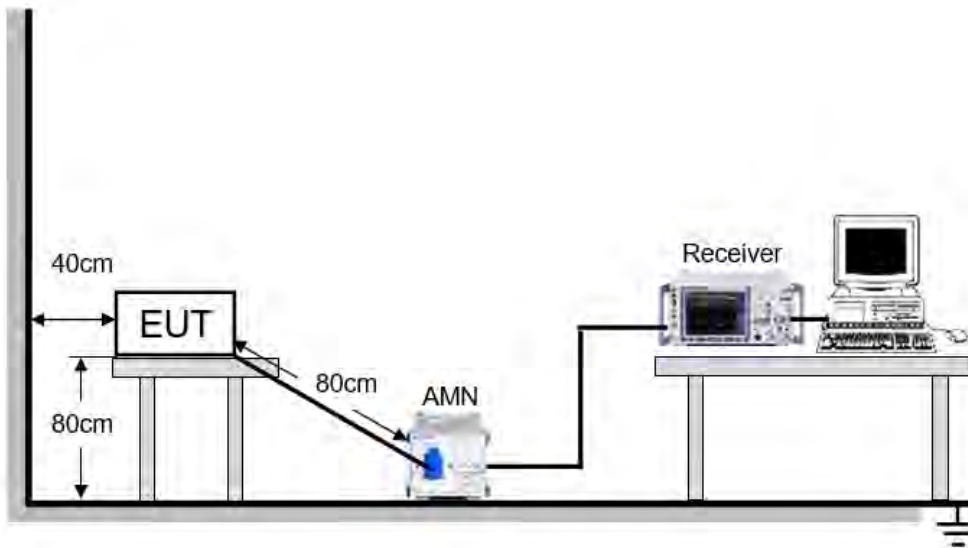
8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a)

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

TEST SETUP AND PROCEDURE

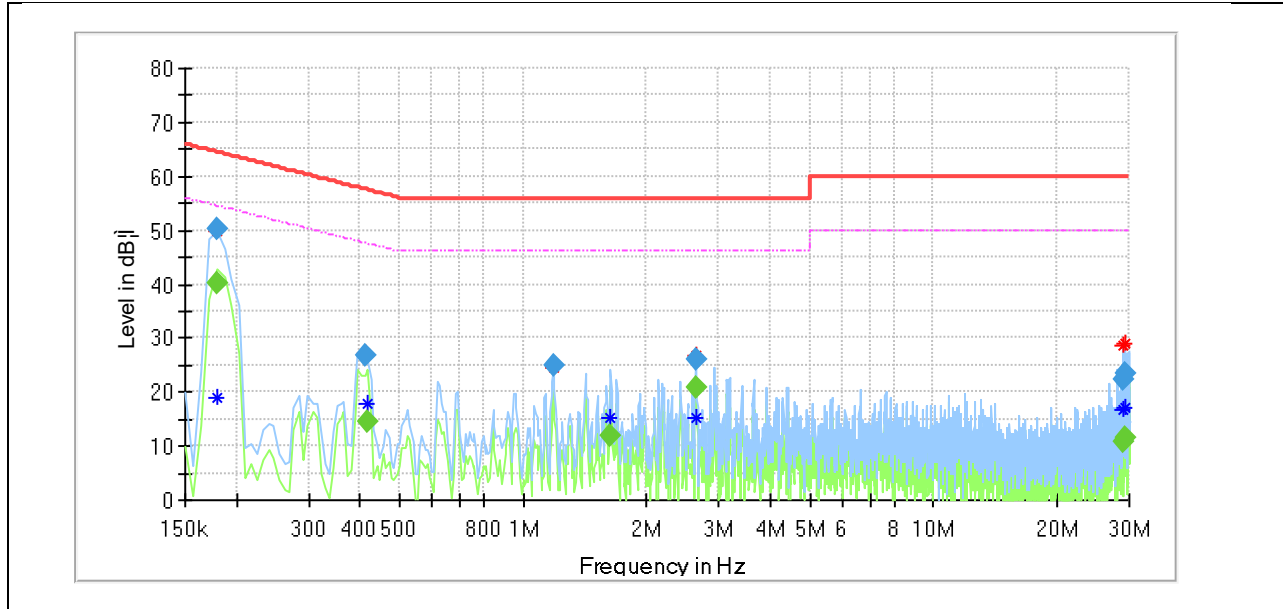


The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3)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

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



LINE L RESULTS (WORST-CASE CONFIGURATION)



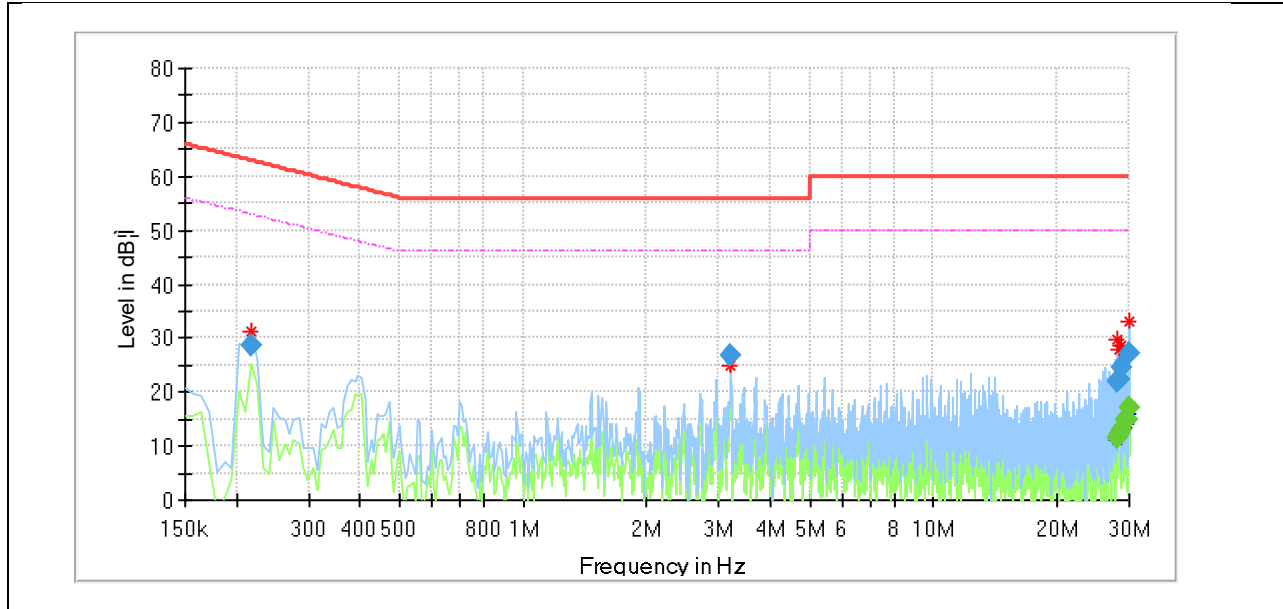
Final Result

Frequency [MHz]	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Filter	Corr. [dB]
0.179850	---	40.10	54.49	38.39	1000.0	9.000	L1	OFF	9.5
0.179850	50.14	---	64.49	21.65	1000.0	9.000	L1	OFF	9.5
0.411188	26.68	---	57.62	31.95	1000.0	9.000	L1	OFF	9.6
0.418650	---	14.36	47.48	33.12	1000.0	9.000	L1	OFF	9.7
1.187288	25.10	---	56.00	39.90	1000.0	9.000	L1	OFF	9.4
1.635038	---	11.97	46.00	34.03	1000.0	9.000	L1	OFF	9.6
2.627550	26.06	---	56.00	36.94	1000.0	9.000	L1	OFF	9.7
2.627550	---	20.96	46.00	36.04	1000.0	9.000	L1	OFF	9.7
28.947788	22.30	---	60.00	37.70	1000.0	9.000	L1	OFF	10.1
28.947788	---	10.83	50.00	39.17	1000.0	9.000	L1	OFF	10.1
29.171663	---	11.36	50.00	38.64	1000.0	9.000	L1	OFF	10.1
29.171663	23.34	---	60.00	36.66	1000.0	9.000	L1	OFF	10.1

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
 5. Pre-testing all test modes and channels, and find the LCH of 11b which is the worst case, so only the worst case is included in this test report.



LINE N RESULTS (WORST-CASE CONFIGURATION)



Final Result

Frequency [MHz]	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Filter	Corr. [dB]
0.217163	28.68	---	62.93	34.25	1000.0	9.000	N	OFF	9.6
3.202163	26.79	---	56.00	19.21	1000.0	9.000	N	OFF	9.6
27.977663	---	11.35	50.00	38.65	1000.0	9.000	N	OFF	9.9
27.977663	22.02	---	60.00	37.98	1000.0	9.000	N	OFF	9.9
28.201538	22.50	---	60.00	37.50	1000.0	9.000	N	OFF	9.9
28.462725	---	12.33	50.00	37.67	1000.0	9.000	N	OFF	9.9
28.694063	---	12.94	50.00	37.06	1000.0	9.000	N	OFF	9.9
28.694063	24.51	---	60.00	35.49	1000.0	9.000	N	OFF	9.9
29.395538	---	14.89	50.00	35.11	1000.0	9.000	N	OFF	10.0
29.716425	---	14.85	50.00	35.15	1000.0	9.000	N	OFF	10.0
29.970150	---	16.96	50.00	33.04	1000.0	9.000	N	OFF	10.0
29.970150	26.99	---	60.00	33.01	1000.0	9.000	N	OFF	10.0

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
 5. Pre-testing all test modes and channels, and find the LCH of 11b which is the worst case, so only the worst case is included in this test report.



9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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

Please refer to FCC §15.247(b)(4)

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

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

END OF REPORT