



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
4373ERM.009

Partial Test report

**USA FCC Part 15.247, 15.407 15.209, 15.207
CANADA RSS-247, RSS-Gen**

(*) Identification of item tested	Infotainment Head Unit
(*) Trademark	BMW
(*) Model and /or type reference tested	IDC2385H
Other identification of the product	FCC ID: T8GIDC23H IC: 6434A-IDC23H
(*) Features	Bluetooth classic; BLE; Wi-Fi 2.4GHz; Wi-Fi 5GHz; GNSS
Manufacturer	HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH BECKER-GOERING-STR. 16 76307, KARLSBAD, GERMANY
Test method requested, standard	USA FCC Part 15.247, 10-1-20 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz USA FCC Part 15.407 10-1-20 Edition : Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 10-1-20 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 3 (August 2023). CANADA RSS-Gen Issue 5 (April 2018). 558074 D01 15.247 Meas Guidance v05r02. Guidance for Compliance Measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under section §15.247 of the FCC Rules ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	See Appendix A
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager 
Date of issue	03-07-2024
Report template No	FDT08_23 (*) "Data provided by the client"

Digitally signed by Domingo Galvez
DN: cn=Domingo Galvez, o=DeKra
Certification Inc., ou=Regulatory Lab
Manager,
email=domingo.galvez@dekra.com,
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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

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DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

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Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Certification internal document PODT000.

Test case	Frequency (MHz)	U (k=2)	Units
Radiated Spurious Emission	30-180	4.27	dB
	180-1000	3.14	dB
	1000-18000	3.30	dB
	18000-40000	3.49	dB

Data provided by the client

The sample consists of an Infotainment Head Unit. The main functionalities are: Navigation, USB, voice recognition and several interfaces to the vehicle and Bluetooth / WLAN. The Head-unit provides different interfaces like: AR-CAM input, Video-out APIX3 (for the connection of an external Display), 3 USB interfaces.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples used for test have been selected by: The client.

Sample S/01 is composed of the following elements:

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/02	4373/01	Infotainment head unit	IDC2385H	HBB429P65UAARZ	01/04/2024	Element Under Test
S/02	4373/02	Harness	-	-	01/04/2024	Accessory
S/02	4373/03	BR-Adapter (Automotive converter Ethernet BroadR-R	-	-	01/04/2024	Accessory
S/02	4373/04	Power Plug cable for BR-Adapter	-	-	01/04/2024	Accessory
S/02	4373/06	HSD (male) to OABR cable	-	-	01/04/2024	Accessory
S/02	4373/07	Quad mate AXZ - High speed Fakra to SMA (male)	-	-	01/04/2024	Element Under Test
S/02	4373/08	BT/WLAN Antenna with SMA (male) connector	-	-	01/04/2024	Element Under Test
S/02	4373/09	BT/WLAN Antenna with SMA (male) connector	-	-	01/04/2024	Element Under Test
S/02	4373/10	BT/WLAN Antenna with SMA (male) connector	-	-	01/04/2024	Element Under Test
S/02	4373/11	BT/WLAN Antenna with SMA (male) connector	-	-	01/04/2024	Element Under Test

Sample S/01 was used for following test(s): All Radiated tests indicated in appendix A.

Test sample description

Ports..... :	Port name and description	Cable				
		Specified length [m]	Attached during test	Shielded	Coupled to patient	
	BT/Wi-Fi Antenna	2	☒	☐	☐	
	USB1/2/3	2	☒	☐	☐	
	Power	2	☒	☐	☐	
	CID	2	☒	☐	☐	
	AR-Cam	2	☒	☐	☐	
	100 Base T1/1G Base T1/GPS/DCS/HUD/D FE	2	☒	☐	☐	
Supplementary information to the ports..... :	N/A					
Rated power supply	Voltage and Frequency	Reference poles				
		L1	L2	L3	N	PE
	☐ AC:	☐	☐	☐	☐	☐
	☐ AC:	☐	☐	☐	☐	☐
	☒ DC: 8 - 16 Vdc					
	☐ DC:					
Rated Power	No Data Provided					
Clock frequencies.....	No Data Provided					
Other parameters	No Data Provided					
Software version	No Data Provided					
Hardware version	No Data Provided					
Dimensions in cm (W x H x D)	No Data Provided					
Mounting position	☐ Table top equipment					
	☐ Wall/Ceiling mounted equipment					
	☐ Floor standing equipment					
	☐ Hand-held equipment					
	☒ Other: Automotive					

Modules/parts.....:	Module/parts of test item	Type	Manufacturer
	No Data Provided		
Accessories (not part of the test item)	Description	Type	Manufacturer
	No Data Provided		
Documents as provided by the applicant	Description	File name	Issue date
	Declaration Equipment Data	FDT30_18 DeclaratEquipmData_HAR_I DC23H_HW5.2_2023-07-28	09/12/2023
Copy of marking plate:			
Manufactured by: Harman Becker Automotive Systems GmbH Becker – Göring – Strasse 16 76307 Karlsbad, Germany Model: IDC2385H 產品名稱: 信息娛樂系統 Model/ 型號: IDC2385H Power Supply / 輸入: 12V --- 12A Manufacture / 製造商: Harman Becker Automotive Systems GmbH Made in / 製造: China 			

Identification of the client

HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH
BECKER-GOERING-STR. 16
76307, KARLSBAD, GERMANY.

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	01-11-2024
Date (finish)	01-16-2024

Document history

Report number	Date	Description
4373ERM.009	03-07-2024	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

1. The tests have been performed by the technical personnel: Juliana Cherry, Qi Zhang, Prudhvi Kothapalli, Ivy Yousuf Moutushi and Koji Nishimoto.

Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

Summary

FCC PART 15 PARAGRAPH / RSS-247 (Bluetooth BR/EDR)					
Report Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
-	§ 2.1049 & § 15.247 (a) (1)	RSS-247 5.1 (b)	20dB Emission Bandwidth, Occupied Bandwidth & Carrier Frequency Separation	N/M	Refer 1
-	§ 15.247 (a) (1) (iii)	RSS-247 5.1 (d)	Number of hopping channels	N/M	Refer 1
-	§ 15.247 (a) (1) (iii)	RSS-247 5.1 (d)	Time of Occupancy (Dwell Time)	N/M	Refer 1
-	§ 15.247 (b) (3)	RSS-247 5.4 (b)	Maximum peak conducted output power and antenna gain	N/M	Refer 1
-	§ 15.247 (d)	RSS-247 5.5	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
-	§ 15.247 (d)	RSS-247 5.5	Emission limitations Conducted (Transmitter)	N/M	Refer 1
A.1	§ 15.247 (d)	RSS-247 5.5	Emission limitations Radiated (Transmitter)	P	N/A
<u>Supplementary information and remarks:</u> 1) Only multi-transmitter radiated spurious emission test was requested.					

FCC PART 15 PARAGRAPH (Wi-Fi 2.4GHz)					
Report Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
-	§ 2.1049 & §15.247 (a) (2)	RSS-247 5.2 (a)	99% Occupied Bandwidth & 6dB Bandwidth	N/M	Refer 1
-	§ 15.247 (b)	RSS-247 5.4 (d)	Maximum Output Power and antenna gain	N/M	Refer 1
-	§ 15.247 (d)	RSS-247 5.5	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
-	§ 15.247 (e)	RSS-247 5.2 (b)	Power Spectral Density	N/M	Refer 1
-	§15.247(d)	RSS-247 5.5	Emission limitations Conducted (Transmitter)	N/M	Refer 1
A.1	§15.247 (d)	RSS-247 5.5	Emission limitations Radiated (Transmitter)	P	N/A
<u>Supplementary information and remarks:</u> 1) Only multi-transmitter radiated spurious emission test was requested.					

FCC PART 15 PARAGRAPH / RSS-247 (Wi-Fi 5GHz) UNII-1 5.150 - 5.250 GHz Band, UNII-3 5.725 - 5.825 GHz Band					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
	§ 15.403 KDB 789033 D02	RSS 247 6.2.4	26dB Emission Bandwidth & Occupied Bandwidth	N/M	Refer 1
	§ 15.407 (e)	RSS 247 6.2.4.1	6dB Bandwidth	N/M	Refer 1
	§ 15.407 (a)(3)	RSS 247 6.2.4.1	Power Limits. Maximum Output Power	N/M	Refer 1
	§ 15.407 (a)(3)	RSS-247 6.2.4.1	Maximum Power Spectral Density	N/M	Refer 1
	§ 15.407 (b)(4)	RSS-247 6.2.4.2	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	N/M	Refer 1
A.1	§ 15.407 (b)(4),(7) § 15.209 § 15.205	RSS-247 6.2.4.2 RSS-Gen 8.9 & 8.10	Undesirable radiated emissions (Transmitter)	P	N/A
	§ 15.407 (g)	RSS-Gen 6.11 & 8.11	Frequency Stability	N/M	Refer 1
<u>Supplementary information and remarks:</u> 1) Only multi-transmitter radiated spurious emission test was requested.					

List of equipment used during the test

Radiated Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
878	Power supply (AMETEK / PROG-DC-PS)	N/A	1707A01783	N/A	N/A
1012	EMI Test Receiver	Rohde & Schwarz	ESR26	2022-04-12	2024-04-12
1014	FSV40 Signal Analyzer 40GHz	Rohde & Schwarz	FSV40	2022-08-01	2024-08-01
1056	3116C Double-Ridged Waveguide Horn Antenna 18-40 GHz	ETS LINDGREN	213179	2023-02-23	2026-02-23
1058	3115 Double-Ridged Waveguide Horn Antenna 1-18 GHz	ETS LINDGREN	211373	2023-06-26	2026-06-26
1064	3142E Biconilog Antenna	ETS LINDGREN	208587	2021-12-13	2024-12-13
1108	Ethernet SNMP Thermometer- CR Room	HW Group	HWg-STE Plain	2022-10-18	2024-10-18
1111	Ethernet SNMP Thermometer	HW Group	HWg-STE Plain	2022-10-18	2024-10-18
1179	Semi anechoic Absorber Lined Chamber	Frankonia	SAC 3 plus "L"	N/A	N/A
1314	Wireless Measurement Software R&S EMC32	Rohde & Schwarz	N/A	N/A	N/A
1461	Low Noise Preamplifier (1-18GHz)	Bonn Elektronik	2213857B	2022-06-01	2024-06-01

Appendix A: Test results (Multi-transmitter)

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TEST A.1: EMISSION LIMITATIONS RADIATED (TRANSMITTER).....15

PRODUCT INFORMATION

Information	Description
Modulation	BR/EDR: GFSK, $\pi/4$ -DQPSK, 8-DPSK Wi-Fi 2.4 GHz: DSSS, OFDM, MIMO-OFDM Wi-Fi 5 GHz: DSSS, OFDM, MIMO-OFDM
Operation mode 1: Single Antenna Equipment	
- Operating Frequency Range	BR/EDR: 2400 - 2483.5 MHz Wi-Fi 2.4 GHz: 2.402 - 2.483.5 GHz Wi-Fi 5 GHz: 5.150 - 5.250 GHz 5.725 - 5.875 GHz
- Nominal Channel Bandwidth	BR/EDR: 1 MHz Wi-Fi 2.4 GHz: 20MHz, 40MHz Wi-Fi 5GHz: 20MHz, 40MHz, 80MHz
- RF Output Power	BR/EDR: 10 dBm Wi-Fi 2.4 GHz: 20 dBm Wi-Fi 5 GHz: 20 dBm (Beamforming)
Antenna type	1/4 wave coax
Antenna gain	BR/EDR: -2.5 dBi Wi-Fi 2.4 GHz: -2.5 dBi Wi-Fi 5 GHz: -2.8 dBi
Nominal Voltage	
- Supply Voltage	12 Vdc
- Type of power source	DC voltage
Equipment type	Bluetooth, Wi-Fi 2.4 GHz, and Wi-Fi 5 GHz
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION															
TC#01 ⁽¹⁾	<u>Power supply (V):</u> DC 12 V															
	<u>Test Frequencies for Radiated tests:</u>															
	<table><tr><th>Technology</th><th>Tested Frequency</th><th>BW (MHz)</th><th>Modulation</th><th>Mode</th></tr><tr><td>Bluetooth</td><td>2402</td><td>3</td><td>FHSS</td><td>GFSK</td></tr><tr><td>Wi-Fi 2.4 GHz MIMO</td><td>2462</td><td>20</td><td>OFDM</td><td>b mode</td></tr></table>	Technology	Tested Frequency	BW (MHz)	Modulation	Mode	Bluetooth	2402	3	FHSS	GFSK	Wi-Fi 2.4 GHz MIMO	2462	20	OFDM	b mode
	Technology	Tested Frequency	BW (MHz)	Modulation	Mode											
	Bluetooth	2402	3	FHSS	GFSK											
Wi-Fi 2.4 GHz MIMO	2462	20	OFDM	b mode												
The test was performed with the equipment transmitting with Bluetooth and Wi-Fi 2.4GHz radios simultaneously. These measurements have been performed in order to check the impact of the multi-transmitter of all radio interfaces that can be transmitting simultaneously.																
TC#02 ⁽¹⁾	<u>Power supply (V):</u> DC 12 V															
	<u>Test Frequencies for Radiated tests:</u>															
	<table><tr><th>Technology</th><th>Tested Frequency</th><th>BW (MHz)</th><th>Modulation</th><th>Mode</th></tr><tr><td>Bluetooth</td><td>2402</td><td>3</td><td>FHSS</td><td>GFSK</td></tr><tr><td>Wi-Fi 5 GHz MIMO (non-beamforming)</td><td>5200</td><td>20</td><td>OFDM</td><td>a mode</td></tr></table>	Technology	Tested Frequency	BW (MHz)	Modulation	Mode	Bluetooth	2402	3	FHSS	GFSK	Wi-Fi 5 GHz MIMO (non-beamforming)	5200	20	OFDM	a mode
	Technology	Tested Frequency	BW (MHz)	Modulation	Mode											
	Bluetooth	2402	3	FHSS	GFSK											
Wi-Fi 5 GHz MIMO (non-beamforming)	5200	20	OFDM	a mode												
The test was performed with the equipment transmitting with Bluetooth and Wi-Fi 5GHz radios simultaneously. These measurements have been performed in order to check the impact of the multi-transmitter of all radio interfaces that can be transmitting simultaneously.																

Note (1): Preliminary scan was performed to determine the worst case between two SISO ports (2.4 GHz or + 5 GHz) and MIMO (2.4 GHz or 5 GHz) ports. The following tables and plots show the results for the worst case in MIMO (2.4 GHz or 5 GHz) + BT.

TEST A.1: EMISSION LIMITATIONS RADIATED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.247, Part 15.31(h), and RSS-247
	Test standard:	Part 15 Subpart C §15.247 (d) and RSS-Gen 8.9 and 8.10

LIMITS

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) / RSS-Gen):

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
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	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing 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.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and 1-18 GHz (Double ridge horn antenna), and 1m for the frequency range 18 GHz- 26 GHz (Double ridge horn antenna).

For radiated emissions in the range 18 - 26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

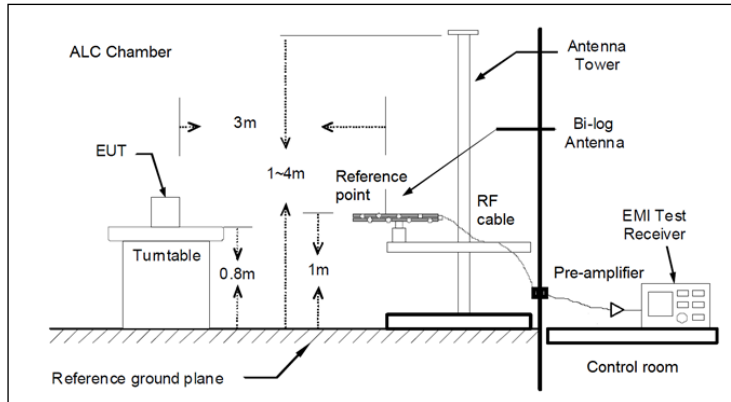
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

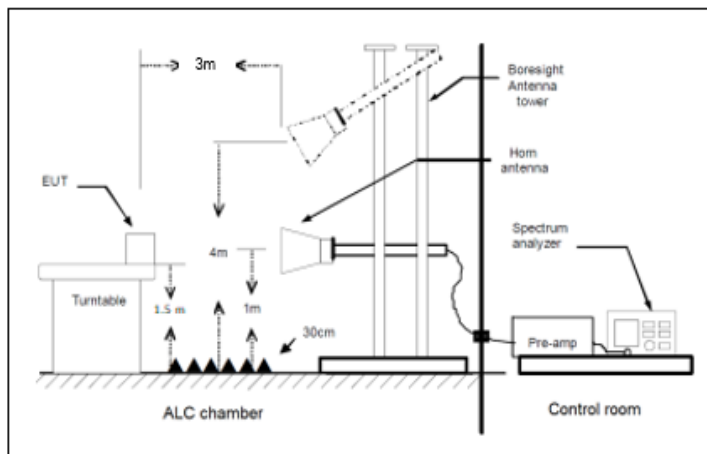
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

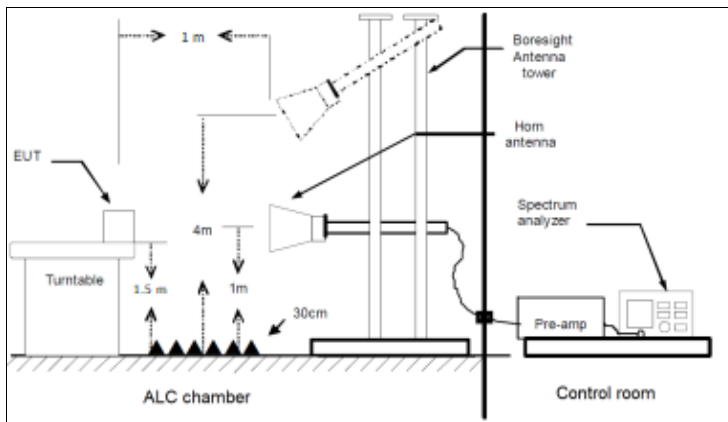
Radiated measurements Setup $f < 1$ GHz



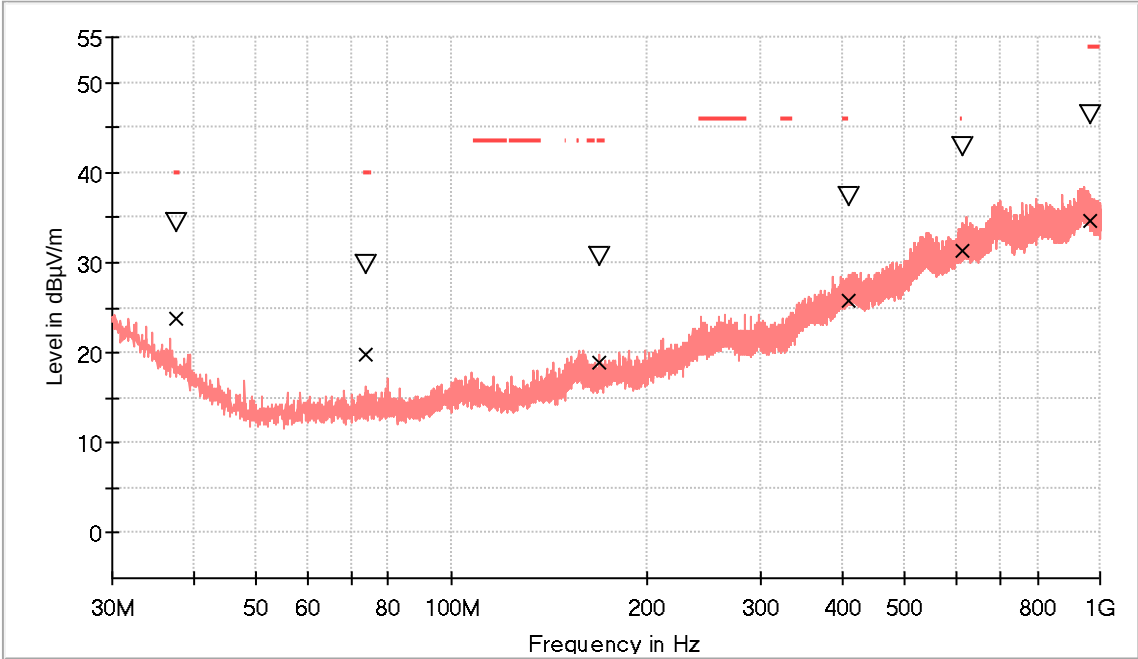
Radiated measurements setup $f > 1-18$ GHz



Radiated measurements setup $f > 18$ GHz



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	30-1000 MHz



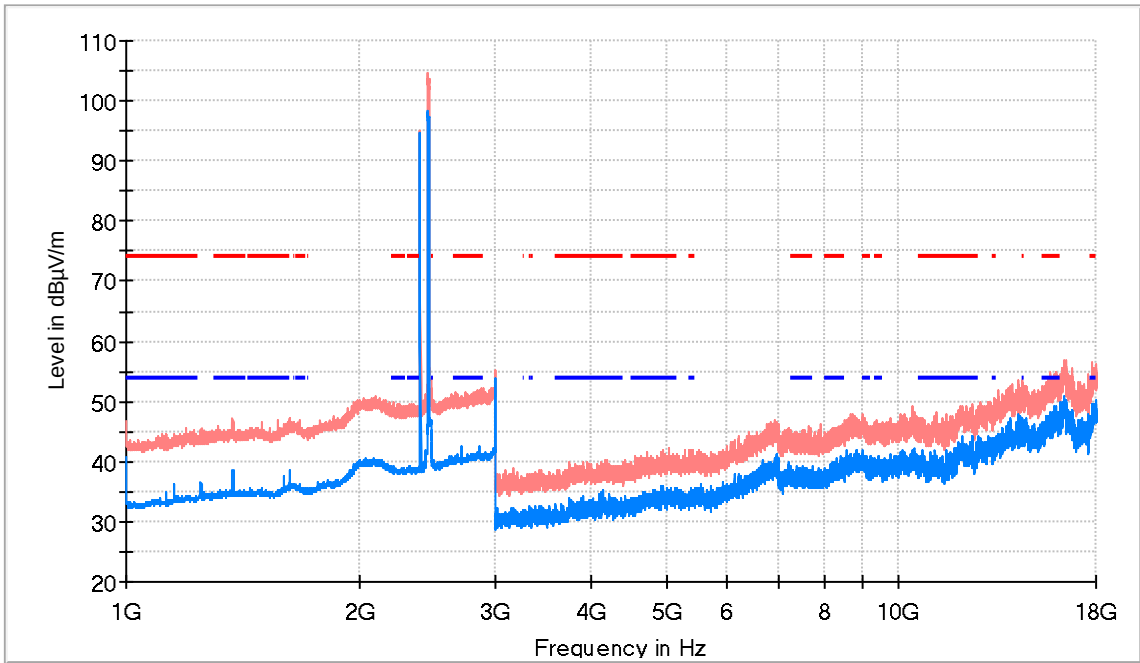
— PK+_MAXH
- - TX limits to Spurious Emission FCC15.247 (30MHz to 1GHz) Restricted Bands QPK Limit
v MaxPeak-PK+ (Single)
x QuasiPeak-QPK (Single)

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	Margin - QPK (dB)	Limit - QPK (dBµV/m)
37.663000	34.3	23.7	V	16.3	40.0
73.553000	29.7	19.8	V	20.2	40.0
168.952500	30.6	18.8	V	24.7	43.5
409.706500	37.3	25.8	V	20.2	46.0
613.261000	42.9	31.2	H	14.8	46.0
968.184000	46.4	34.5	H	19.5	54.0

TEST RESULTS (Cont.):

1-18 GHz



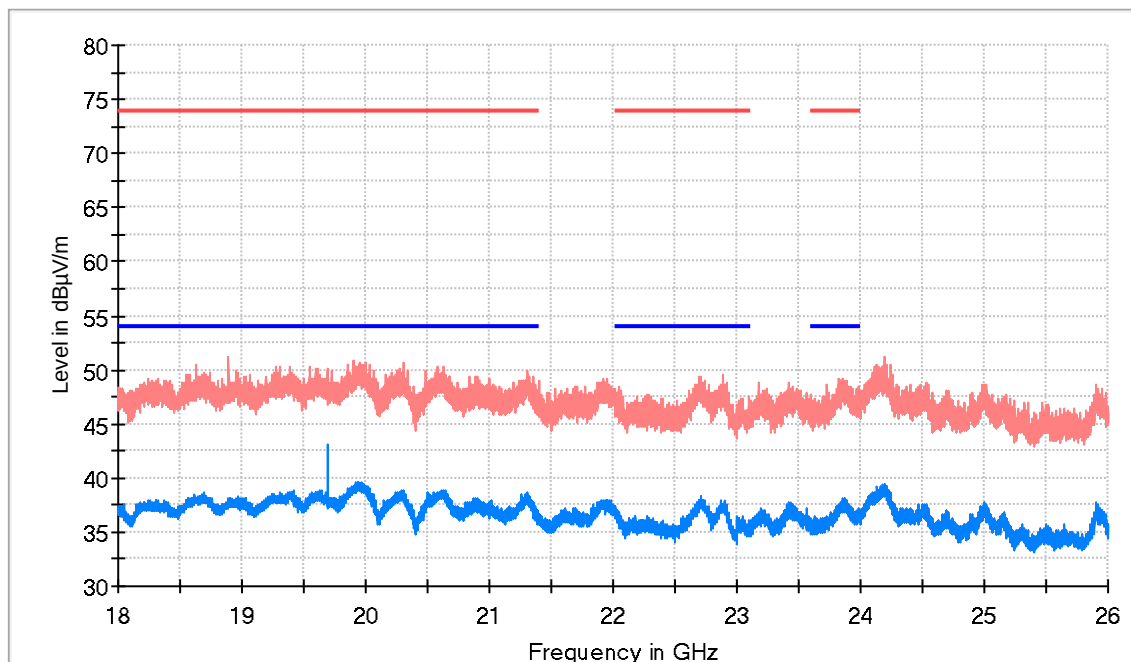
- PK+_MAXH
- AVG_MAXH
- TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
- TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit

Final Result

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2402.000000	95.2	94.8	H	---	---	BT Fundamental
2460.500000	104.6	98.4	H	---	---	Wi-Fi Fundamental
2719.000000	50.2	42.5	V	11.5	54.0	
17918.000000	53.4	49.7	H	4.3	54.0	

TEST RESULTS (Cont.):

18 – 26 GHz



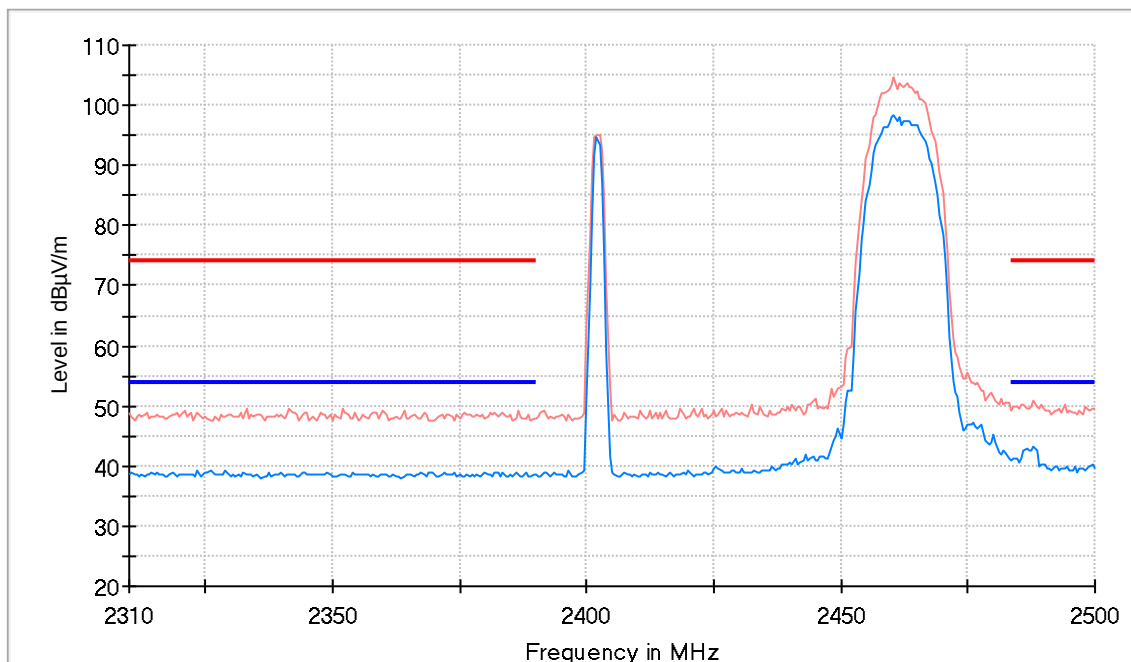
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit

Final Result

Frequency (MHz)	PK+ _MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
19696.000000	50.2	43.0	V	11.0	54.0	8th Harmonic
22713.000000	47.9	38.3	V	15.7	54.0	
23859.500000	48.4	37.9	V	16.1	54.0	

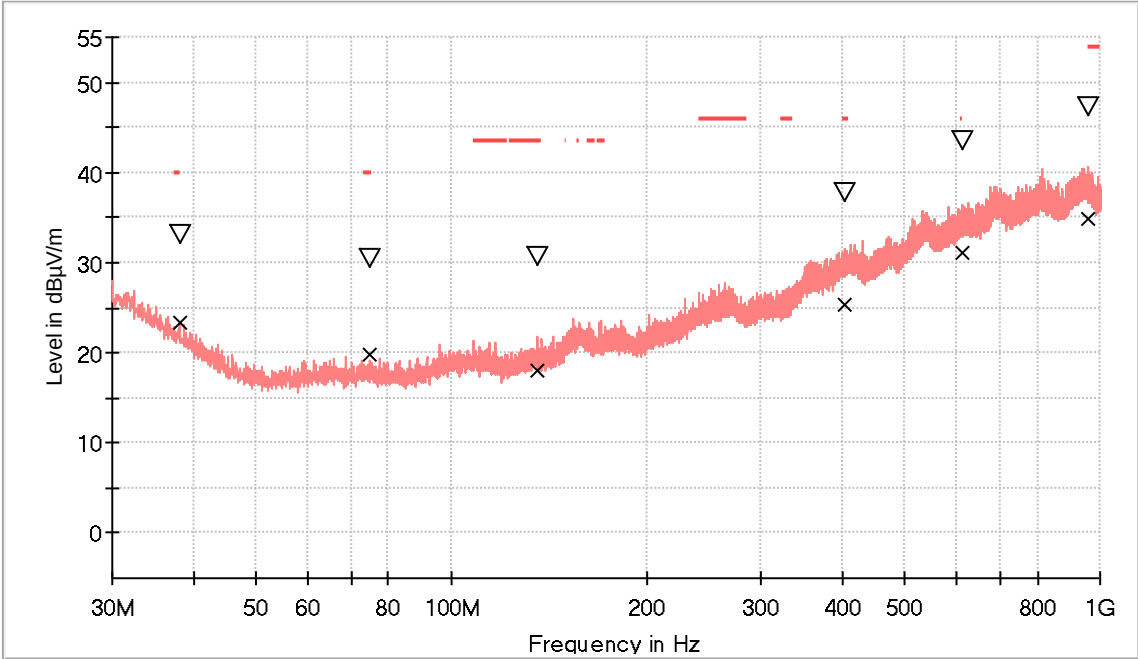
TEST RESULTS (Cont.):

Restricted Bands (2.31 GHz – 2.5 GHz)



- PK+_MAXH
- AVG_MAXH
- TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
- TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02
TEST RESULTS :	30-1000 MHz



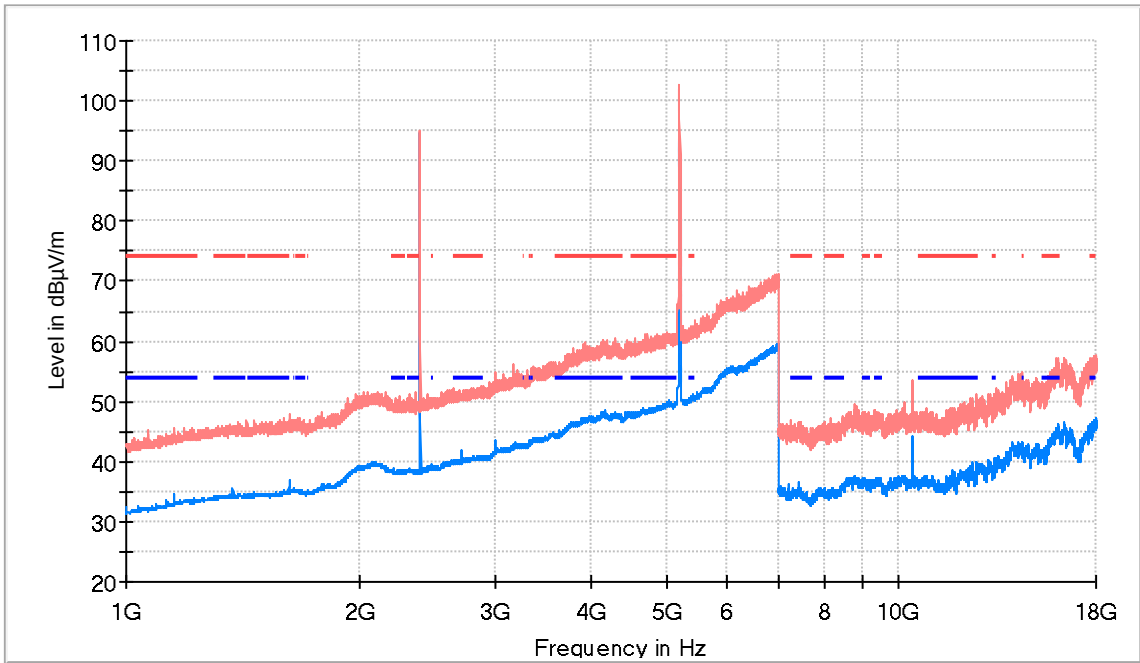
— PK+_MAXH
- - TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit
v MaxPeak-PK+ (Single)
x QuasiPeak-QPK (Single)

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	Margin - QPK (dB)	Limit - QPK (dBµV/m)
38.051000	33.1	23.5	V	16.6	40.0
74.911000	30.4	19.8	V	20.2	40.0
135.584500	30.7	18.0	V	25.6	43.5
402.625500	37.8	25.4	V	20.6	46.0
611.709000	43.5	31.2	V	14.8	46.0
960.181500	47.3	34.8	V	19.2	54.0

TEST RESULTS (Cont.):

1-18 GHz



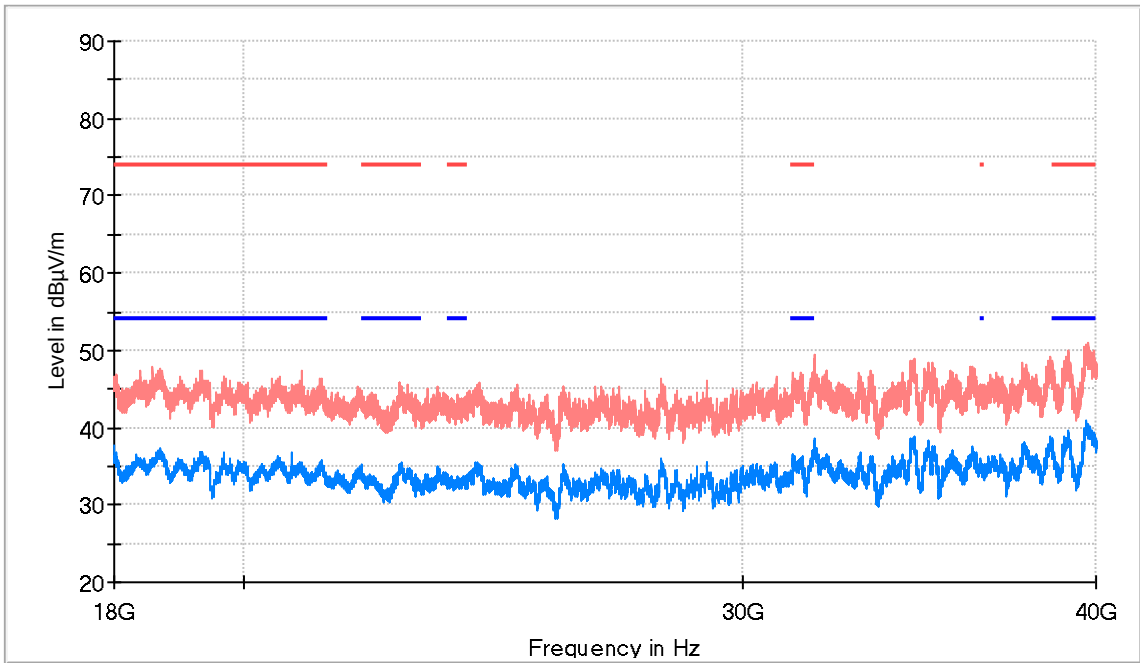
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Final Result

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1374.500000	45.9	35.6	H	18.4	54.0	
2402.000000	95.1	94.6	H	---	---	BT Fundamental
5194.000000	102.0	93.6	H	---	---	Wi-Fi Fundamental
10401.000000	51.9	44.1	H	---	---	2nd Harmonic
17847.500000	55.9	46.0	V	8.0	54.0	

TEST RESULTS (Cont.):

18 – 40 GHz



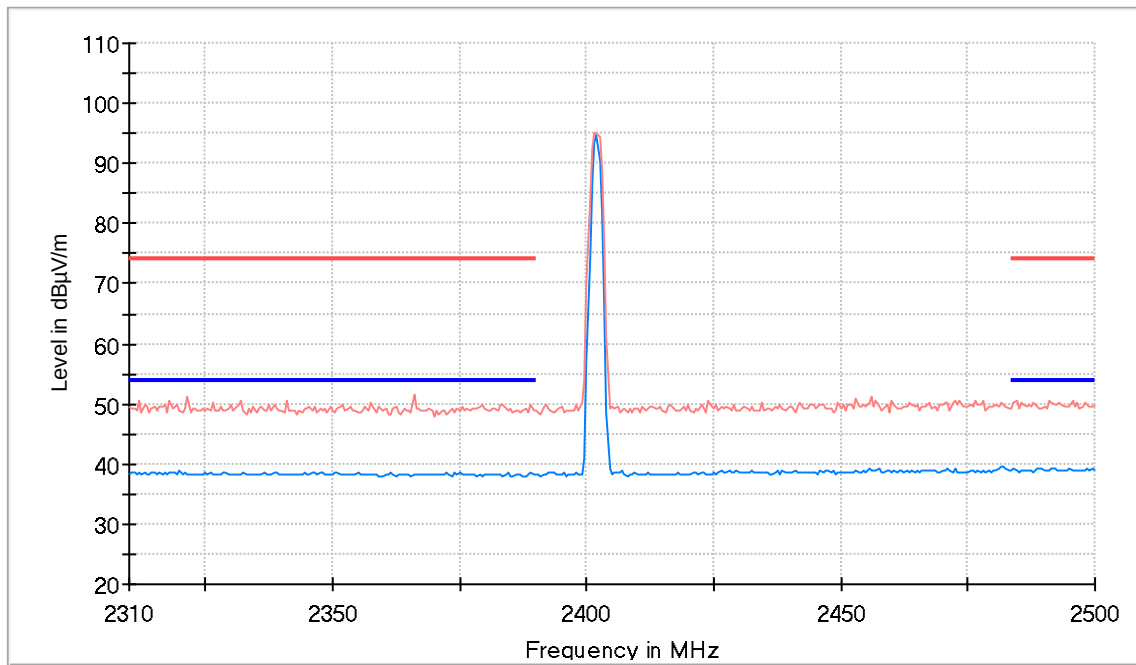
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Final Result

Frequency (MHz)	PK+ _MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	PoI	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
18671.000000	45.8	37.3	V	16.8	54.0	
20799.500000	43.3	36.7	V	17.3	54.0	4th Harmonic
31784.375000	45.8	37.1	H	16.9	54.0	
39694.062500	50.5	40.9	H	13.1	54.0	

TEST RESULTS (Cont.):

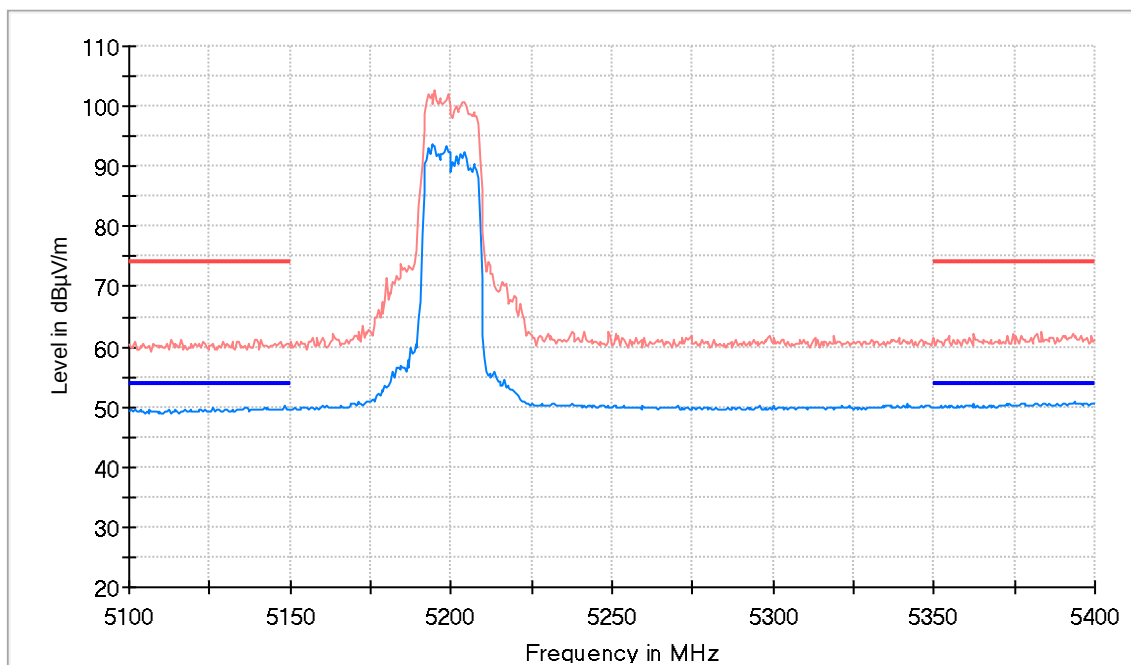
Restricted Bands (2.3 GHz – 2.5 GHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.):

Restricted Bands (5.1 GHz – 5.4 GHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit