



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
5006ERM.004A1

Partial Test report

USA FCC Part 15.31(h)

Measurement standards

USA FCC Part 15.247, 15.205, 15.209

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

USA FCC Part 15.407, 15.205, 15.209

Unlicensed National Information Infrastructure Devices - General technical requirements

(*) Identification of item tested	Infotainment Controller
(*) Trademark	User eXperience Computer-F (UXC-F)
(*) Model and /or type reference tested	User eXperience Computer-F (UXC-F)
(*) Derived model not tested	--
Other identification of the product	FCC ID: 2BS75CV-RQ5FN0GX IC: 216B-CV-RQ5FN0GX HVIN: UXCF
(*) Features	Wi-Fi 2.4GHz/5GHz; Bluetooth v5.3
Manufacturer	Panasonic Automotive Systems America, LLC 776 Hwy 74 South, Peachtree City, GA 30269 United States
Test method requested, standard	USA FCC Part 15.31(h) (11-18-2024 Edition): Measurement standards USA FCC Part 15.247 (11-18-2024 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz USA FCC Part 15.205 (11-18-2024 Edition): Restricted bands of operation. USA FCC Part 15.209 (11-18-2024 Edition): Radiated emission limits; general requirements. USA FCC Part 15.407 (05-05-2025) Edition : Unlicensed National Information Infrastructure (U-NII) Devices. General technical requirements. ANSI C63.10-2020/Cor1-2023+C63.10a-2024+Errata to C63.10a-2024: 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	2026-02-27
Report template No	FDT08_25 (*) "Data provided by the client"

Digitally signed by
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Acronyms

Acronym ID	Acronym Description
# of Tx Chains	Number of Transmission Chains
BEL	Band Edge Left
BER	Band Edge Right
DC	Duty Cycle
Freq	Frequency
Freq Rng	Frequency Range
Lvl Meas Pk	Level Pre Measurement Peak
MP	Measurement Point
MU	Medium Utilization Factor
Max EIRP	Maximum Burst EIRP
Max RMS	Maximum Burst RMS
Max Tx Seq	Maximum Transmission Sequence Time
Min Tx Gap	Minimum Transmission Gap Time
Mod	Modulation
Occ Ch BW	Occupied Channel Bandwidth
PSD	Power Spectrum Density
Port	Active Port
T	Temperature
Unwanted Freq	Unwanted Emissions Frequency
Unwanted Lvl	Unwanted Emissions Level

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** and **CAB ID US0215**.

The laboratory is registered under Laboratory Registration No. 263434 and recognized under MRA Designation No. US1228.

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

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

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 Inc. at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

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

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

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 following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a Waymo User eXperience Computer-F (UXC-F) that is used to facilitate an Audio and Video interface between the WAYMO Compute Box and the output sources, i.e., displays, speakers (via DHU). The UXC-F provides an android operating system platform to host Waymo's apps. The UXC-F also, provides Rear View Camera (RVC), and BT(BLE)/Wi-Fi capabilities.

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 the test have been selected by: The client.

The sample(s) is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	5006/01	Automotive Infotainment Head Unit	WA-267-SKGN-HE	---	2025-09-03	Element Under Test
S/01	5006/04	CAT-6 RJ45 LAN DSL Network Cable Ethernet	---	---	2025-09-03	Accessory
S/01	5006/05	Gigabit Ethernet Adapter	Linksys USB3GIGV1	15710S05400889	2025-09-03	Accessory
S/01	5006/07	H-MTD Harness Z Quad Port to Single-Port ETH cable	PremierCable	--	2025-09-03	Accessory
S/01	5006/08	Antennas 4G MIMO (x2) & Wi-Fi Mini Fakra connect	TAOGLAS MA323.A.009	---	2025-09-03	Accessory
S/01	5006/09	Harness	---	---	2025-09-03	Accessory
S/01	5006/11	Screen	CM1E_C10_029	---	2025-09-03	Accessory
S/01	5006/15	Laptop	DELL Latitude 7440	PASLAP000001700	2025-09-03	Accessory
S/01	5006/23	Automotive Ethernet converter	Intrepid Control System, Inc. Rad moon 2	RN8728	2025-09-03	Accessory
S/01	5006/30	HSDS LVDS to 4+2 Pin HSD LVDS cable	Amphenol HP2FSZFSZT300PC	---	2025-09-03	Accessory

Notes referenced to samples during the project:

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

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description		Cable				
			Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾	
	Power		3	[X]	[]	[]	
	A2B Main		3	[X]	[]	[]	
	DISP0 to DISP4		3	[X]	[X]	[]	
	RVC (camera)		3	[X]	[X]	[]	
	Ethernet		3	[X]	[X]	[]	
	BT/Wi-Fi		3	[X]	[X]	[]	
Supplementary information to the ports..... :							
Rated power supply :	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 9V to 16Vdc, 13.1V typ.					
[]	DC:						
Rated Power..... :	200W						
Clock frequencies :	19.2MHz, 48MHz, 2.5GHz, 24.576MHz, 10MHz, 125MHz, 19.2MHz, 512kHz, 32.8kHz, 200k						
Other parameters..... :							
Software version..... :	v6.3						
Hardware version..... :	PP1						
Dimensions in cm (W x H x D)..... :	313 x 150.6 x 55mm						
Mounting position..... :	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[X]	Other: Mounted vertical w/ connector pointing down					
Modules/parts :	Module/parts of test item		Type		Manufacturer		
	Display		TFT		BOE Varitronix		
	A2B Evaluation Board		Audio		Analog Devices		
	Ethernet Adapter		Radmoon 2		Intrepid Control Sy		
	Camera		GMSL1		Geely		
Accessories (not part of the test item)..... :	Description		Type		Manufacturer		
							
							
							
							
							
							

Documents as provided by the applicant	Description	File name	Issue date
	Declaration Equipment Data	FDT30_19	2025-12-18

⁽³⁾ Only for Medical Equipment

Identification of the client

Panasonic Automotive Systems America, LLC
776 Hwy 74 South,
Peachtree City, GA 30269
United States

Testing period and place

Test Location	DEKRA Certification Inc. 405 Glenn Dr. Suite 12, Sterling, VA 20164 United States of America.
Date (start)	2026-01-20
Date (finish)	2026-01-20

Document history

Report number	Date	Description
5006ERM.004	2026-02-05	First release
5006ERM.004A1	2026-02-27	Second release. The addresses of the manufacturer and client have been updated on the cover page and the Identification of the Client page. The laboratory registration number and MRA designation number have been added to the Competences and Guarantees section. This updated draft test report cancels and replaces the report 5006ERM.004.

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. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

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. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

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. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

Remarks and comments

The tests have been performed by the technical personnel: Michael Ermer, Yuqi Wang, Victor Albrecht, and Koji Nishimoto.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

FCC PART 15C PARAGRAPH (BTLE & Wi-Fi 2.4GHz)		
Requirement – Test case	Verdict	Remark
FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 2.1049 - 99dBw Occupied Channel Bandwidth 99%	N/M	Refer 1
FCC 15.247 (a)(1)(iii) - 20dB Emission Bandwidth, Occupied Bandwidth & Carrier Frequency Separation	N/M	Refer 1
FCC 15.247 (a)(1) - Number of hopping channels	N/M	Refer 1
FCC 15.247 (a)(1) - Time of Occupancy (Dwell Time)	N/M	Refer 1
FCC 15.247 (a)(2) - 6dB Bandwidth	N/M	Refer 1
FCC 15.247 (b)(3) - Maximum Peak Conducted output power & Antenna gain	N/M	Refer 1
FCC 15.247 (d) - Band-edge emissions compliance (Transmitter) - Conducted	N/M	Refer 1
FCC 15.247 (e) - Power Spectral Density	N/M	Refer 1
FCC 15.247 (d) - Emissions compliance (Transmitter) - Conducted	N/M	Refer 1
FCC 15.247 (d) - Emissions compliance (Transmitter) - Radiated	P	N/A
Supplementary information and remarks:		
1. Only multi-transmitter radiated spurious emission test was requested.		

FCC PART 15E PARAGRAPH (Wi-Fi 5GHz) UNII-1		
Requirement – Test case	Verdict	Remark
FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 2.1049 - 99dBw Occupied Channel Bandwidth 99%	N/M	Refer 1
FCC 15.407 (a)(1)(i) / (a)(3)(i) - Maximum Peak Conducted output power & Antenna gain	N/M	Refer 1
FCC 15.407 (a)(1)(iv) / (a)(3)(i) - Power Spectral Density	N/M	Refer 1
FCC 15.407 (e) - 6dB Bandwidth	N/M	Refer 1
FCC 15.407 (b)(9) - Emissions compliance (Transmitter) - Conducted	N/M	Refer 1
FCC 15.407 (b)(9) - Emissions compliance (Transmitter) - Radiated	P	N/A
FCC 15.407 (b)(1) / (b)(4)(i) - Band-edge emissions compliance (Transmitter)	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

Test Equipment for Radiated emission testing:

Radiated Measurements

Control No.	Equipment	Model	Manufacturer	Next Calibration
01057	3115 DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (750 MHz-18 GHz)	3115	ETS LINDGREN	2026-07-18
01056	3116C DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (18-40GHz)	3116C	ETS LINDGREN	2026-02-23
01066	3142E BICONILOG ANTENNA	3142E	ETS LINDGREN	2028-02-03
01213	CONTROL ROOM	CR	FRANKONIA	--
01010	ESR7 EMI TEST RECEIVER	ESR7	RHODE & SCHWARZ	2027-04-11
01111	ETHERNET SNMP THERMOMETER	HWg-STE Plain	HW GROUP	--
01108	ETHERNET SNMP THERMOMETER	HWg-STE Plain	HW GROUP	--
01566	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	RF Sq table	FRANKONIA	--
01014	FSV40 SIGNAL ANALYZER 40GHZ	FSV40	RHODE & SCHWARZ	2026-10-04
00981	LOW NOISE PREAMPLIFIER (1-18GHz)	BLMA0118-2A	BONN ELEKTRONIK	2026-02-21
00982	LOW NOISE PREAMPLIFIER (18-40GHz)	BLMA1840-1M	BONN ELEKTRONIK	2027-04-11
01179	SEMI-ANECHOIC CHAMBER	SAC 3plus 'L'	FRANKONIA	--
01314	WIRELESS MEASUREMENT SOFTWARE R&S EMC32	--	RHODE & SCHWARZ	--

Appendix A: Test results (Multi-transmitter)

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 RSS-247 / FCC 15.407 [RSE] Transmitter Out of Band Radiated Emissions For transmitters 18

Product information

The following information is provided by the client

Information	Description
Modulation	BTEDR: GFSK , DPQSK, 8DPSK Wi-Fi 2.4 GHz: CCK, DSSS, OFDM (BPSK QPSK, 16/64QAM) Wi-Fi 5 GHz: 16-QAM, 64-QAM, 256-QAM
Operating Frequency Range	BTEDR: 2400 - 2483.5 MHz Wi-Fi 2.4 GHz: 2400 - 2483.5 MHz Wi-Fi 5 GHz: UNII-1: 5150 - 5250 MHz, UNII-2A: 5250 - 5350 MHz, UNII-2C: 5470 - 5725 MHz, UNII-3: 5725 – 5850 MHz
Nominal Channel Bandwidth	BTEDR: 1MHz Wi-Fi 2.4 GHz: 20MHz Wi-Fi 5 GHz: 20MHz, 40MHz, 80MHz
RF Output Power	BTEDR: 10 dBm Wi-Fi 2.4 GHz: 12 dBm Wi-Fi 5 GHz: 17 dBm
Antenna type	The Taoglas Comet MA323 is a low profile, puck style, adhesive/magnetic mount 3-in-1 antenna
Antenna gain	BTEDR: 2.83 dBi Wi-Fi 2.4 GHz: 2.83 dBi Wi-Fi 5 GHz: 5.92 dBi
Nominal Voltage	
- Supply Voltage	12 Vdc
- Type of power source	DC voltage
Equipment type	Bluetooth Classic (BR & EDR) WLAN according to IEEE 802.11 a/b/g/n/ac/ax

Description of test conditions

(*): Data provided by the client.

TEST CONDITIONS	DESCRIPTION				
TC/01	<u>Power supply (V):</u> DC 12 V				
	<u>Test Frequencies for Radiated tests:</u>				
	Technology	Tested Frequency (MHz)	BW (MHz)	Modulation	Mode
	BTEDR (LC)	2402	1	8DPSK 3-DH5	--
	Wi-Fi 5 GHz MIMO (LC)	5745	20	54 Mbps	a mode
The test was performed with the equipment transmitting simultaneously on the BTEDR and 5 GHz Wi-Fi radios. These measurements were carried out to assess the impact of concurrent multi-transmitter operation across all radio interfaces.					
TC/02	<u>Power supply (V):</u> DC 12 V				
	<u>Test Frequencies for Radiated tests:</u>				
	Technology	Tested Frequency (MHz)	BW (MHz)	Modulation	Mode
	Wi-Fi 2.4 GHz MIMO (HC)	2462	20	DSSS 11 Mbit/s	b mode
	Wi-Fi 5 GHz MIMO (LC)	5745	20	54 Mbps	a mode
The test was performed with the equipment transmitting simultaneously on the 2.4 GHz and 5 GHz Wi-Fi radios. These measurements were carried out to assess the impact of concurrent multi-transmitter operation across all radio interfaces.					

Note : Preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in MIMO 2.4GHz, MIMO 5 GHz, and BTEDR.

LC= Low Channel
MC = Mid Channel
HC = High Channel

RADIATED MEASUREMENTS:

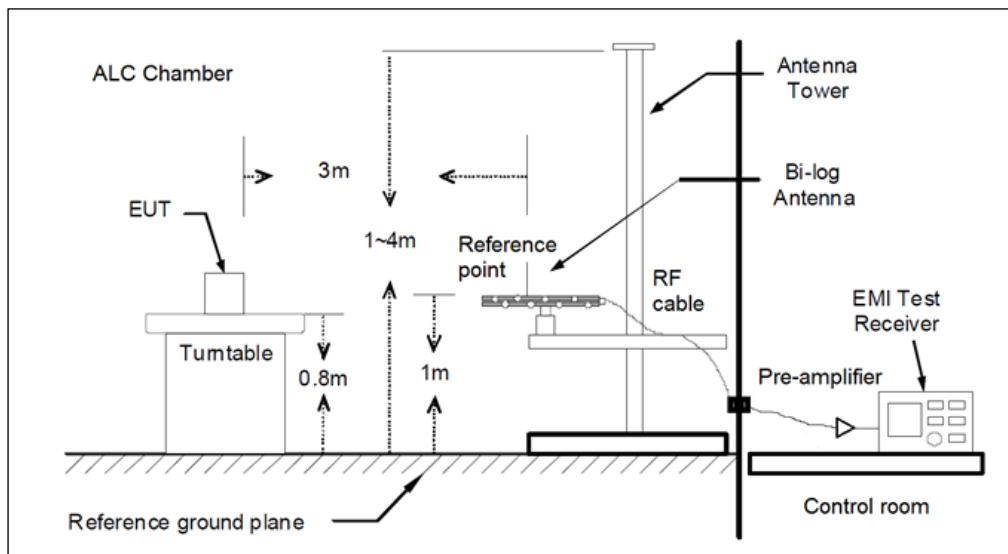
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency ranges 30-1000 MHz (Bi-log antenna) and 1-18 GHz (Double ridge horn antennas) and at 1m for the frequency range 18-40 GHz (Double ridge horn antennas).

For radiated emissions in the range 18-40 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.

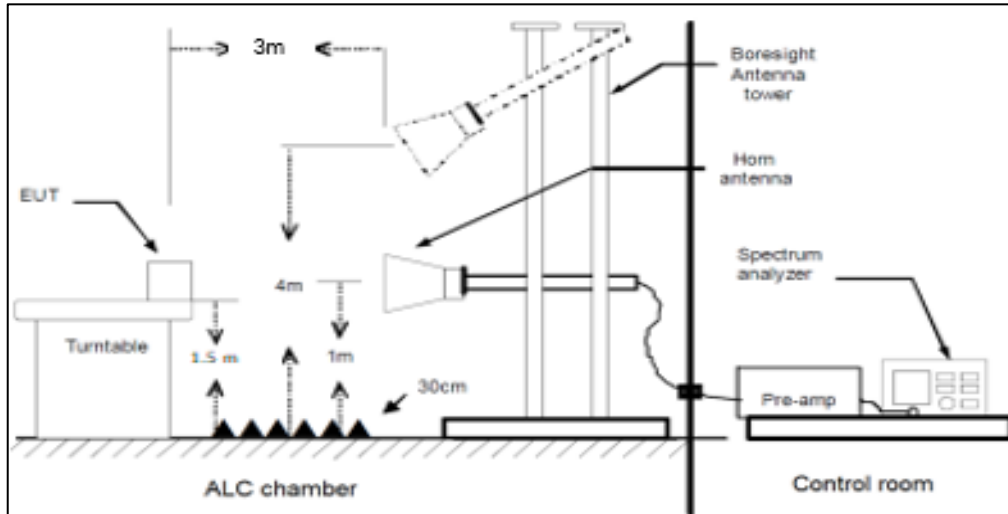
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

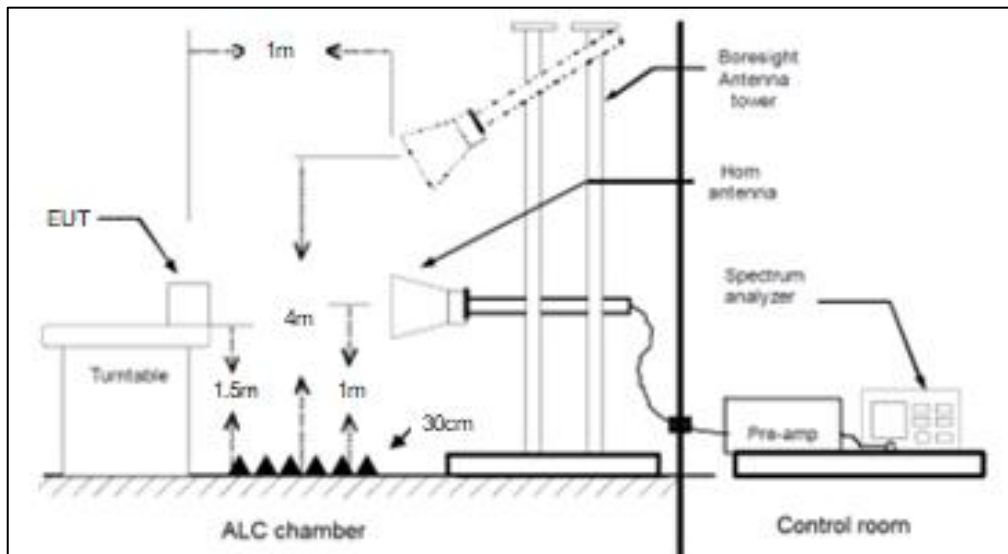
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.



Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $1 < f < 18$ GHz



Radiated measurements setup $f > 18$ GHz

Frequency range 9KHz – 30 MHz

No radiofrequency signal generated in the device was found below 10 sub-harmonic, no further investigation required.

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

RSS-247 / FCC 15.407 [RSE] Transmitter Out of Band Radiated Emissions For transmitters

Limits

USA FCC Part 15.207:

- FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.247:**

(d) 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))

USA FCC Part 15.407:

- FCC Rules and Regulations 47 CFR Part 15, Subpart E, Secs. 15.407:**

(b)(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

(b)(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

USA FCC Part 15.209:

(a) the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

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 ⁽¹⁾	40	3
88 - 216	150 ⁽¹⁾	43.5	3
216 - 960	200 ⁽¹⁾	46	3
Above 960	500	54	3

- Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Secs. 15.231 and 15.241

(d) The emission limits shown in the above table 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.

(f) In accordance with Secs. 15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in Secs. 15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in Secs. 15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in Secs. 15.109 that are applicable to the incorporated digital device.

• **FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.109:**

(g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in the Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment—Radio Disturbance Characteristics—Limits and Methods of Measurement" (incorporated by reference, see § 15.38). In addition:

(2) If, in accordance with § 15.33 of this part, measurements must be performed above 1000 MHz, compliance above 1000 MHz shall be demonstrated with the emission limit in paragraph (a) or (b) of this section, as appropriate. Measurements above 1000 MHz may be performed at the distance specified in the CISPR 22 publications for measurements below 1000 MHz provided the limits in paragraphs (a) and (b) of this section are extrapolated to the new measurement distance using an inverse linear distance extrapolation factor (20 dB/decade), e.g., the radiated limit above 1000 MHz for a Class B digital device is 150 µV/m, as measured at a distance of 10 meters.

Frequency range (MHz)	Class A limits		Class B limits	
	AVG Limit for 3 m ⁽¹⁾ (dBµV/m)	PK Limit for 3 m ^(1,2) (dBµV/m)	AVG Limit for 3 m ⁽¹⁾ (dBµV/m)	PK Limit for 3 m ^(1,2) (dBµV/m)
1000 - 3000	60	80	54	74
3000 - 6000	60	80	54	74
6000 - 40000 ⁽³⁾	60	80	54	74

- Limits are specified by FCC at a distance of 10m and extrapolated here for 3m by adding inverse linear distance (1/d) proportionality factor of 20dB/decade, used per §15.31(f)(1)
- Frequencies above 1 GHz, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test, as per §15.35(b)
- According with the CISPR 22 (third Edition) There are no limits in the frequency range of 6 - 40 GHz, so expand the frequency range beyond 6GHz using the same limits.

• **FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.205:**

(1) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

(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			

Test condition: TC/01

Sample: S/01

Results

Attachments

Operation Band MHz = [2462, 5850]

Frequency Range GHz = [0.03, 1]

Active Port = 1

Active Port = 1+2

Active Port = 1+2

Modulation = BT (8-DPSK 3-DH5)

Modulation = 802.11b (DSSS 11 Mbit/s)

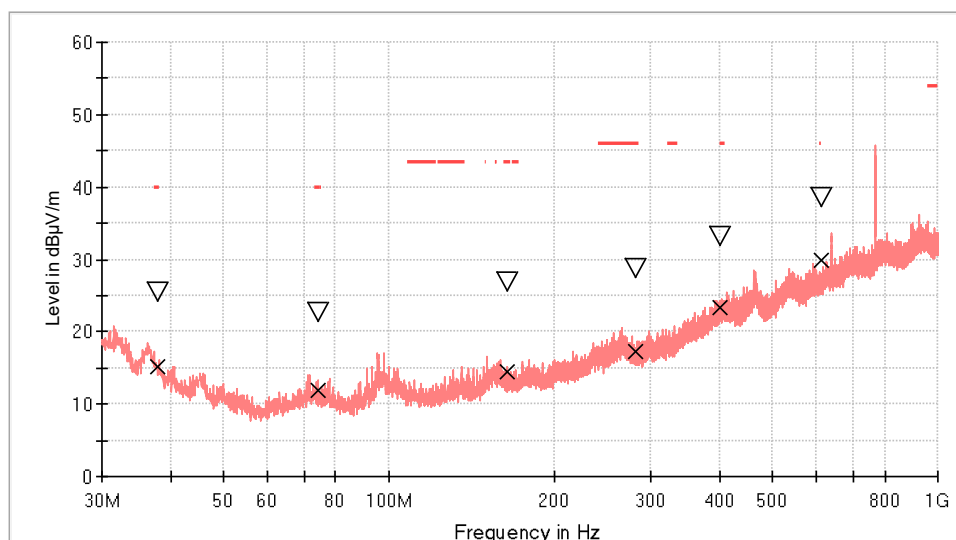
Modulation = 802.11a (OFDM 54 Mbit/s)

MIMO Mode = SISO

MIMO Mode = MIMO CDD Mode 2x2

MIMO Mode = MIMO CDD Mode 2x2

RF_FCC_15.407_E Field_30MHz_1GHz



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

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Pol	Margin - QPK	Limit - QPK (dBμV/m)
37.905500	25.4	15.1	H	24.9	40.0
74.086500	22.7	11.9	V	28.1	40.0
164.636000	26.8	14.4	V	29.1	43.5
280.551000	28.8	17.3	V	28.7	46.0
400.152000	33.1	23.3	V	22.7	46.0
611.757500	38.6	29.8	V	16.2	46.0

Operation Band MHz = [2462, 5850]

Frequency Range GHz = [1, 18]

Active Port = 1

Active Port = 1+2

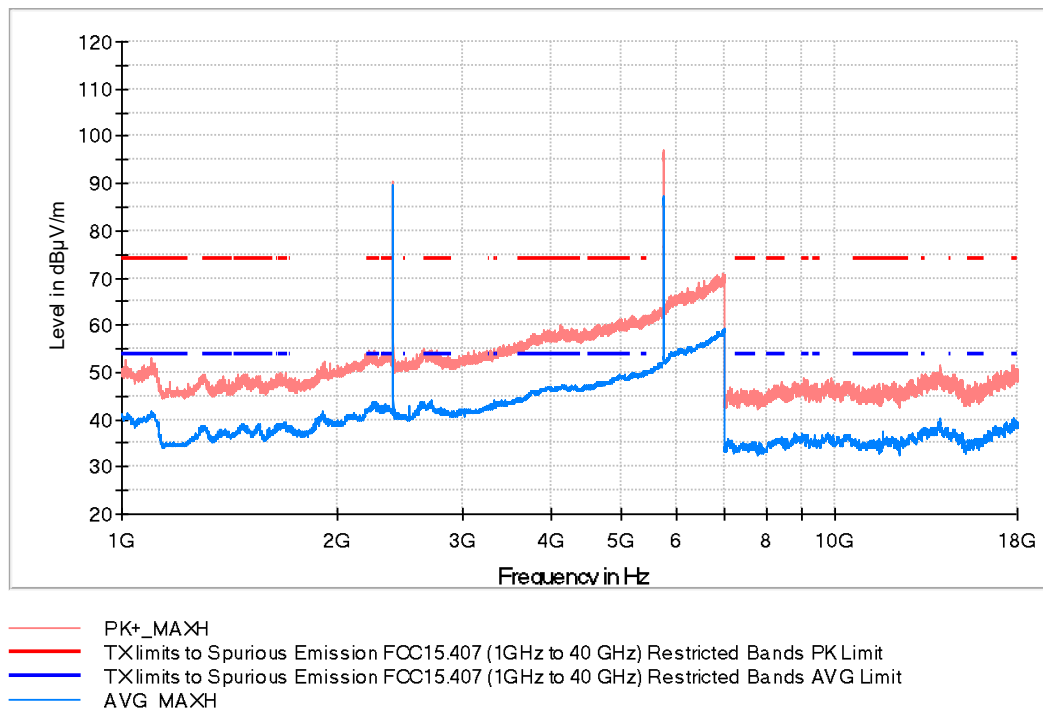
Modulation = BT (8-DPSK 3-DH5)

Modulation = 802.11a (OFDM 54 Mbit/s)

MIMO Mode = SISO

MIMO Mode = MIMO CDD Mode 2x2

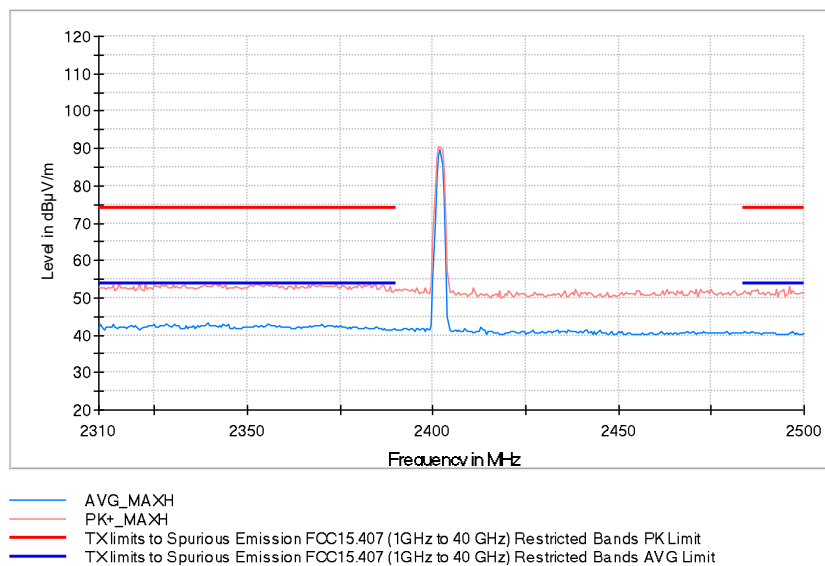
RF_FCC_15.407_E Field_1GHz_18GHz_3m(SAC2)



Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2401.500000	90.4	88.3	V	---	---	BT Fundamental
4144.500000	58.8	47.4	H	6.6	54.0	Wi-Fi 5 GHz Fundamental
5749.000000	96.8	86.8	V	---	---	
11674.083333	47.2	37.5	V	16.5	54.0	

Restricted Bands

Copy of RF_FCC_15.407_E Field_1GHz_18GHz_3m(SAC2)



Operation Band MHz = [2462, 5850]

Frequency Range GHz = [18, 40]

Active Port = 1

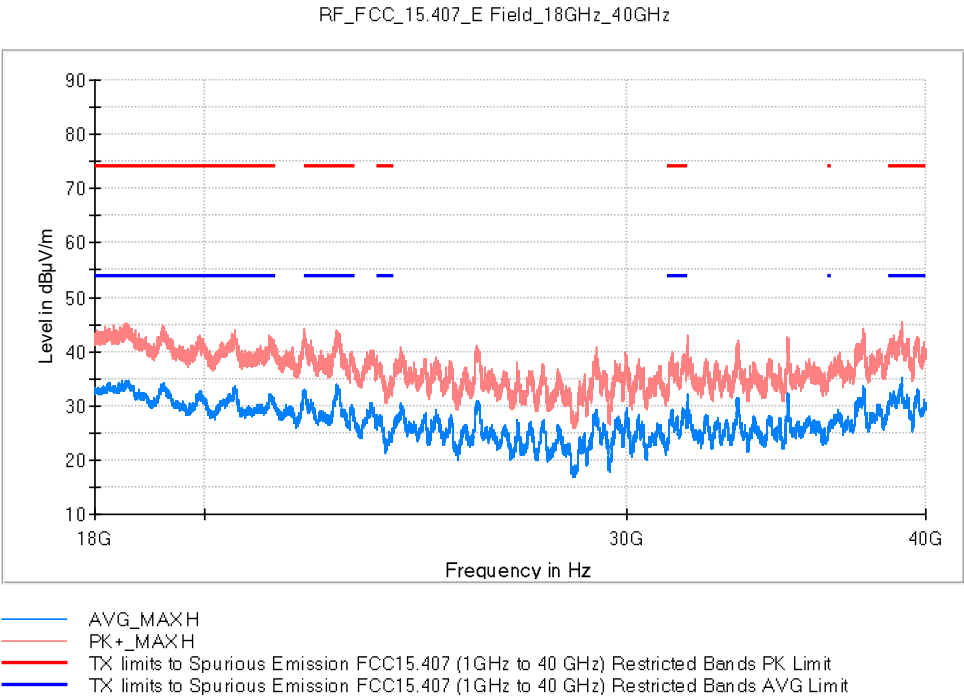
Active Port = 1+2

Modulation = BT (8-DPSK 3-DH5)

Modulation = 802.11a (OFDM 54 Mbit/s)

MIMO Mode = SISO

MIMO Mode = MIMO CDD Mode 2x2



Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	PoI	Margin - AVG (dB)	Limit - AVG (dBµV/m)
22714.187500	43.3	34.1	V	19.9	54.0

Operation Band MHz = [2462, 5850]

Frequency Range GHz = [1, 18]

Active Port = 1+2

Active Port = 1+2

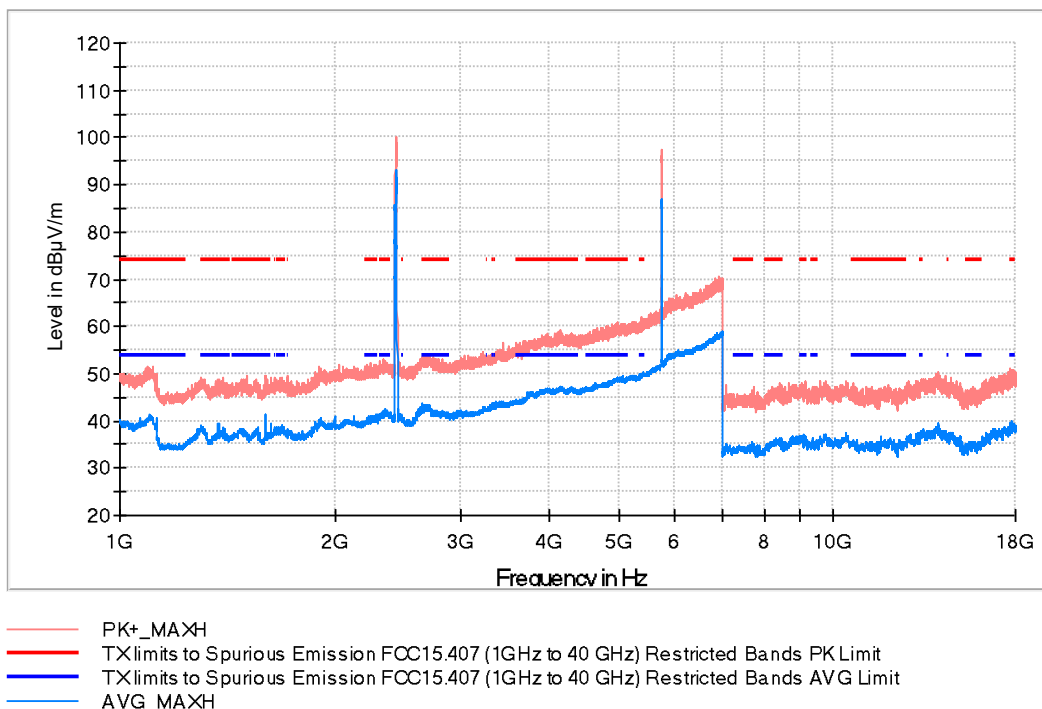
Modulation = 802.11b (DSSS 11 Mbit/s)

Modulation = 802.11a (OFDM 54 Mbit/s)

MIMO Mode = MIMO CDD Mode 2x2

MIMO Mode = MIMO CDD Mode 2x2

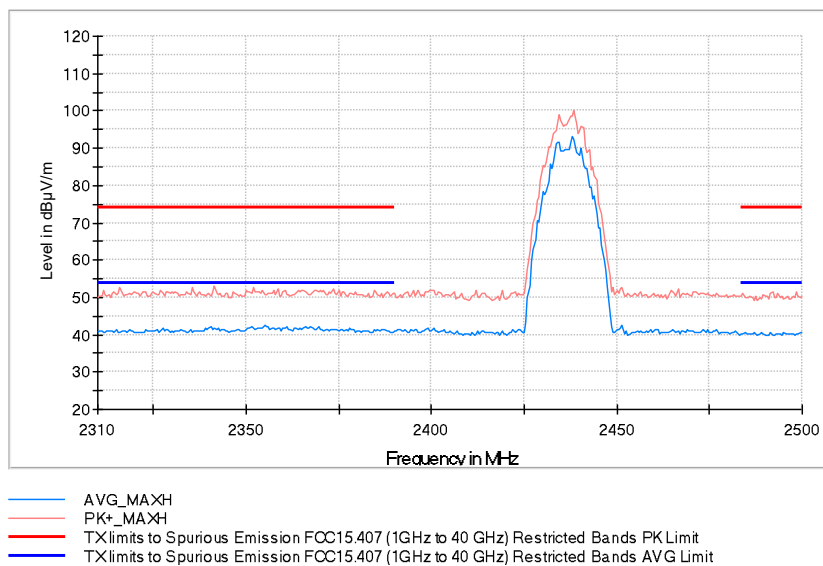
RF_FCC_15.407_E Field_1GHz_18GHz_3m(SAC2)



Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1599.500000	49.5	41.3	H	12.7	54.0	
2438.500000	100.2	92.2	V	---	---	WiFi2.4GHz Fundamental
5750.000000	97.3	86.6	V	---	---	WiFi5GHz Fundamental
11674.083333	45.8	36.8	V	17.2	54.0	

Restricted Bands

Copy of RF_FCC_15.407_E Field_1GHz_18GHz_3m (SAC2)



Operation Band MHz = [2462, 5850]

Frequency Range GHz = [18, 40]

Active Port = 1+2

Active Port = 1+2

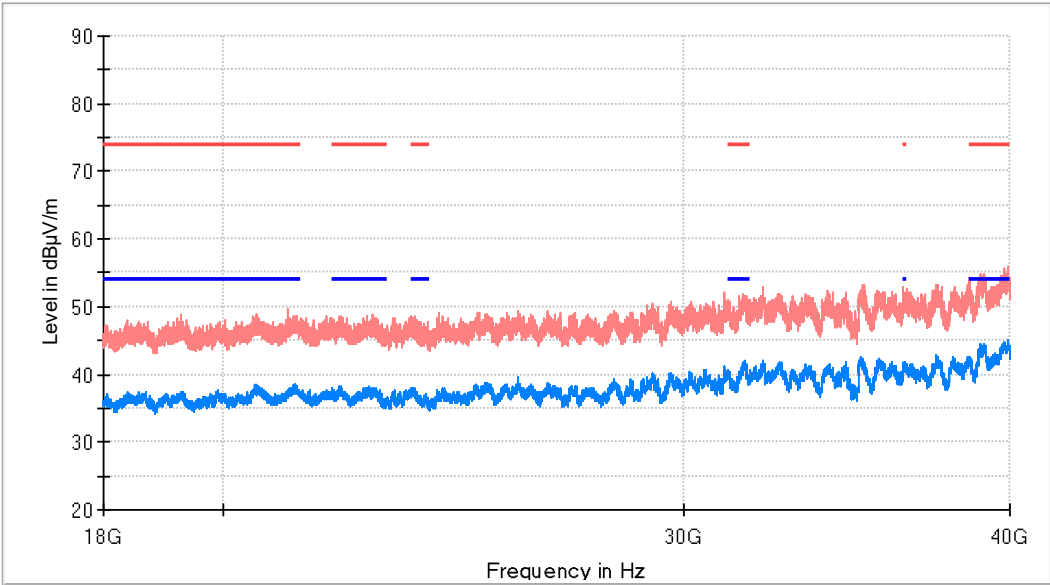
Modulation = 802.11b (DSSS 11 Mbit/s)

Modulation = 802.11a (OFDM 54 Mbit/s)

MIMO Mode = MIMO CDD Mode 2x2

MIMO Mode = MIMO CDD Mode 2x2

RF_FCC_15.407_E Field_18GHz_40GHz



- 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

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
38963.250000	52.9	44.4	V	9.6	54.0

Radiated emission electromagnetic field

(30MHz – 1GHz)

Pre-Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
30 MHz - 1 GHz	20 dB	PK+	100 kHz

(1GHz – 18GHz)

Pre-Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
1 GHz - 18 GHz	20 dB	PK+ ; AVG	1 MHz

(18GHz – 40GHz)

Pre-Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
18 GHz - 26 GHz	20 dB	PK+ ; AVG	1 MHz