



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
2840ERM.005A1

Test report

**USA FCC Part 15.407 (U-NII), 15.209
CANADA RSS-210, RSS-Gen
Unlicensed National Information Infrastructure Devices. General technical
requirements.
Licence-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
General Requirements and Information for the Certification of Radio
Apparatus.**

Identification of item tested	Dual band WiFi and BLE 5 radio module
Trademark	Telit
Model and /or type reference	WE866C6-P
Other identification of the product	FCC ID: RI7WE866C6
Features	BT BR/EDR/LE 5.0 + Wifi a/b/g/n/ac (wave 1=> Max BW= 80 MHz)
Manufacturer	TELIT COMMUNICATIONS S.P.A. Viale Stazione di Prosecco 5/B, 34010 Sgonico, Trieste(Italy)
Test method requested, standard	USA FCC Part 15.407 10-1-19 Edition: Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 10-1-19 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 (April 2018). 789033 D02 General UNII Test Procedures New Rules v02r01 Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	06-30-2020
Report template No	FDT08_21

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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.

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 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.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
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.

Frequency (MHz)	U(k=2)	Units
0,009 - 30	2.69	dB
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

Companion module, supporting Wi-Fi 802.11 a/b/g/n/ac (wave 1) and BT (BR/EDR/LE(5.0)). Single RF antenna port for both technologies Wifi and BT. SDIO and HCI I/F, respectively for Wi-Fi and BT control. Module is controlled via a host Telit module, LE920A4 or LE910C1.

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 undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
2840/01	Telit module WE866C6-P in Cradle	LE910C4-AP	IMEI:357575100004589	04/27/2020

1. Sample S/01 has undergone following test(s):

All conducted tests indicated in appendix B, C, D & E.

Sample S/02 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
2840/02	Telit module WE866C6-P in Cradle	LE910C4-AP	IMEI:357575100005412	04/27/2020

1. Sample S/02 has undergone following test(s):

All radiated tests indicated in appendix B, C, D & E.

Sample S/01 & S/02 is composed of the following accessories:

Control N°	Description	Model	Serial N°	Date of reception
2840/08	power cable	---	---	04/27/2020
2840/11	USB Cable	---	---	04/27/2020
2840/05	WLAN Antenna	ATEL-ANTENNAS T- AT9552	----	04/27/2020

Test sample description

Ports..... :	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded		
	Wi-Fi/BT RF Port		0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
				<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>			
Supplementary information to the ports..... :	<i>Not provided data</i>						
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DC					
<input checked="" type="checkbox"/>	DC: 3.8V (Internal DCDC converter supplying the WE866C3-P module with regulated voltage = 3.3 V)						
Rated Power	18 dBm max						
Clock frequencies	48 MHz						
Other parameters..... :	<i>Not provided data</i>						
Software version	25.20.308						
Hardware version..... :	1.0/CS1929b-A						
Dimensions in cm (L x W x D)	15x13mm						
Mounting position..... :	<input type="checkbox"/>	Table top equipment					
	<input checked="" type="checkbox"/>	Wall/Ceiling mounted equipment					
	<input type="checkbox"/>	Floor standing equipment					
	<input type="checkbox"/>	Hand-held equipment					
	<input type="checkbox"/>	Other:					
Modules/parts	Module/parts of test item		Type	Manufacturer			
Accessories (not part of the test item)	Description		Type	Manufacturer			
	<i>Not provided data</i>						
Documents as provided by the applicant..... :	Description		File name	Issue date			
	<i>Not provided data</i>						

Copy of marking plate:



Identification of the client

TELIT COMMUNICATION S.P.A
VIALE STAZIONE DI PROSECCO 5/B, TRIESTE, ITALY.

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	04-29-2020
Date (finish)	05-15-2020

Document history

Report number	Date	Description
2840ERM.005	06-19-2020	First release
2840ERM.005A1	06-30-2020	Second release

Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 2840ERM.005 related with the same samples, in the next clauses and sub-clauses:

Clauses/ Sub-Clauses	Modification	Justification
Appendix B.1 / C.1 / D.1 / E.1 26dB Emission Bandwidth & Occupied Bandwidth	Included Occupied Bandwidth measurement settings.	Documentation Error
Appendix E.2/ Pg:305 & 309 6dB Bandwidth	Corrected RBW and VBW measurement settings	Documentation Error

This modification test report cancels and replaces the test report 2840ERM.005.

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

Remarks and comments

The tests have been performed by the technical personnel: Bhagyashree Chaudhary, Lakshmi Gollamudi, Lordes Maria Valverde and Koji Nishimoto.

Testing verdicts

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

Summary

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.15 GHz -5.25 GHz Band					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
B.1	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.1	26dB Emission Bandwidth & Occupied Bandwidth	P	N/A
B.2	§ 15.407 (a) (1) (4)	RSS 247 6.2.1.1	Power Limits. Maximum Output Power	P	N/A
B.3	§ 15.407 (a) (1) (5)	RSS-247 6.2.1.1	Maximum Power Spectral Density	P	N/A
B.4	§ 15.407 (b) (1)	RSS-247 6.2.1.2	Band-edge conducted emissions compliance (Transmitter)	P	N/A
B.5	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	P	N/A
B.6	§ 15.407 (b)(1)(6)(7) § 15.209 § 15.205	RSS-247 6.2.1.2 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

Supplementary information and remarks:

The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017

- 1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.25 GHz -5.35 GHz Band					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
C.1	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.1	26dB Emission Bandwidth & Occupied Bandwidth	P	N/A
C.2	§ 15.407 (a) (1) (4)	RSS 247 6.2.1.1	Power Limits. Maximum Output Power	P	N/A
C.3	§ 15.407 (a) (1) (5)	RSS-247 6.2.1.1	Maximum Power Spectral Density	P	N/A
C.4	§ 15.407 (b) (1)	RSS-247 6.2.1.2	Band-edge conducted emissions compliance (Transmitter)	P	N/A
C.5	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	P	N/A
C.6	§ 15.407 (b)(1)(6)(7) § 15.209 § 15.205	RSS-247 6.2.1.2 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

Supplementary information and remarks:

The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017

- 1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.

Summary

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.47 GHz -5.725 GHz Band					
Report Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
D.1	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.4	26dB Emission Bandwidth & Occupied Bandwidth	P	N/A
D.2	§ 15.407 (e)	RSS 247 6.2.4.1	6dB Bandwidth	P	N/A
D.3	§ 15.407 (a)(3)(4)	RSS 247 6.2.4.1	Power Limits. Maximum Output Power	P	N/A
D.4	§ 15.407 (a)(3)(5)	RSS-247 6.2.4.1	Maximum Power Spectral Density	P	N/A
D.5	§ 15.407 (b)(4)	RSS-247 6.2.4.2	Band-edge conducted emissions compliance (Transmitter)	P	N/A
D.6	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	P	N/A
D.7	§ 15.407 (b)(4)(6)(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
<p><u>Supplementary information and remarks:</u></p> <p>The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017</p> <p>1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.</p>					

Summary

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.725 GHz -5.825 GHz Band					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
E.1	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.4	26dB Emission Bandwidth & Occupied Bandwidth	P	N/A
E.2	§ 15.407 (e)	RSS 247 6.2.4.1	6dB Bandwidth	P	N/A
E.3	§ 15.407 (a)(3)(4)	RSS 247 6.2.4.1	Power Limits. Maximum Output Power	P	N/A
E.4	§ 15.407 (a)(3)(5)	RSS-247 6.2.4.1	Maximum Power Spectral Density	P	N/A
E.5	§ 15.407 (b)(4)	RSS-247 6.2.4.2	Band-edge conducted emissions compliance (Transmitter)	P	N/A
E.6	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	P	N/A
E.7	§ 15.407 (b)(4)(6)(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

Supplementary information and remarks:

The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017

1) Acc. To FCC, Manufacturers of UNII devices are responsible for frequency stability compliance.

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) Common Requirements for all bands					
Report Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
--	§ 15.407 (c)	--	Transmission in case of absence of information to transmit, or operational failure.	N/M	Refer 1

Supplementary information and remarks:

1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.

List of equipment used during the test

Conducted Measurements

Test system Rohde & Schwarz TS 8997:

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1039	FSV40 Signal analyzer 40 GHz	Rohde & Schwarz	FSV40	2018/10	2020/10
1309	Switch unit	Rohde & Schwarz	OSP120 / OSP-B157	2020/03	2022/03
1009	RF generator	ROHDE & SCHWARZ	SMB100A	2019/08	2021/08
1042	RF Vector Signal generator	Rohde & Schwarz	SMBV100A	2020/03	2022/03
101	Climatic chamber	ESPEC North america	ESL-2CA	2020/04	2021/04

Radiated Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1179	Semi anechoic Absorber Lined Chamber	Frankonia	SAC 3 plus "L"	N/A	N/A
1064	BiconicalLog antenna	ETS LINDGREN	3142E	2018/01	2021/01
1058	Double-ridge Waveguide Horn antenna 1-18 GHz	ETS LINDGREN	3115	2020/05	2023/05
1056	Double-ridge Waveguide Horn antenna 18-40 GHz	ETS LINDGREN	3116C	2020/01	2023/01
1014	Spectrum analyzer	Rohde & Schwarz	FSV40	2019/04	2021/04
1012	EMI TEST RECEIVER	Rohde & Schwarz	ESR 26	2019/12	2021/12
0982	RF pre-amplifier 18-40 GHz	Bonn Elektronik	BLMA 1840-1M	2018/10	2021/10
0981	RF pre-amplifier 1-18 GHz	Bonn Elektronik	BLMA 0118-2A	2018/10	2021/10

Appendix A: DUT Description

DUT Description

The following information is provided by the client

Information	Description
Equipment type	WIFI 5GHz/2.4 GHz + BT BR/EDR/LE
DFS Operating Mode	Slave without Radar Detection
TPC Function	Not Supported ¹
Antenna Specification	Equipment with only one antenna
Operating Frequency Range	5150 - 5250 MHz / 5250 - 5350 MHz / 5470 -5725 MHz / 5725 – 5825 MHz
Nominal Channel Bandwidth	20/ 40/ 80 MHz
Antenna type	Dedicated antenna (single)
RF Output Power	16.5 dBm
Antenna gain	+4.5 dBi
Supply Voltage	3.8 Vdc
Modulation:	OFDM (QPSK, BPSK,16QAM,64QAM,256QAM)
Communication Mode:	IP Based (Load Based)
Transmit Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2 Mbps IEEE 802.11n HT40: 15, 30, 45, 60, 90, 120, 135, 150 Mbps IEEE 802.11ac VHT20: 86.7 Mbps IEEE 802.11ac VHT40: 180, 200 Mbps IEEE 802.11ac VHT80: 390, 433.3 Mbps
Geo-location capability	No

1. TPC not required if Max EIRP < 500mW (27 dBm)

Appendix B: Test results

5.15 GHz – 5.25 GHz Band

Appendix B Content

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DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (a mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest range: 5180 MHz Middle channel: 5200 MHz Highest range: 5240 MHz
TC#02 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz <u>Test Frequencies for Conducted/Radiated tests: (40 MHz)</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz
TC#03 ⁽¹⁾ (ac mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz <u>Test Frequencies for Conducted/Radiated tests: (40 MHz)</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz <u>Test Frequencies for Conducted/Radiated tests: (80 MHz)</u> Middle channel: 5210 MHz

Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20/40 and 802.11ac20/40/80 a preliminary scan was performed to determine the worst case.

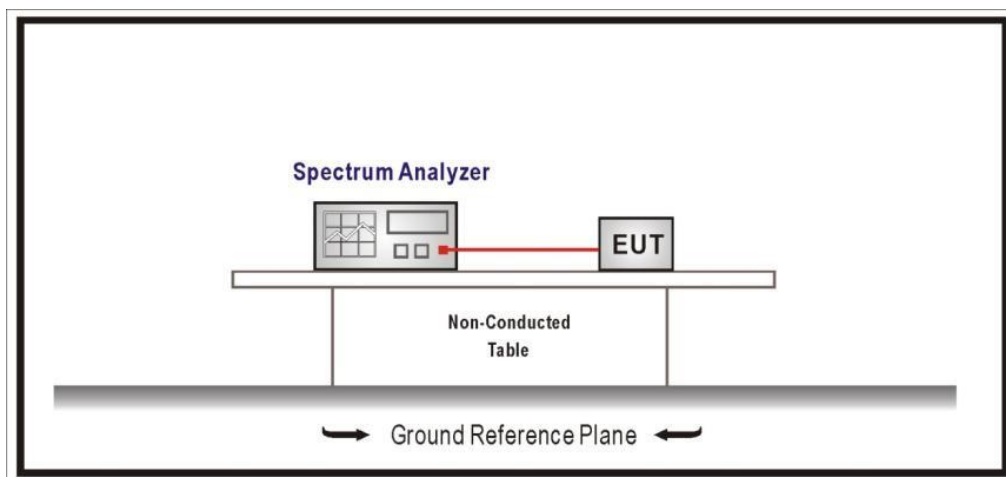
The data rates of 6Mb/s for 802.11a, MCS 0 for 802.11n, and MCS8 for 802.11ac were selected based on preliminary testing that identified those rates corresponding to the worst cases.

TEST B.1: 26DB EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart C §15.403 and RSS-247
	Test standard:	Part 15 Subpart C §15.403 and RSS-247 6.2.1

No requirements requested

TEST SETUP:



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

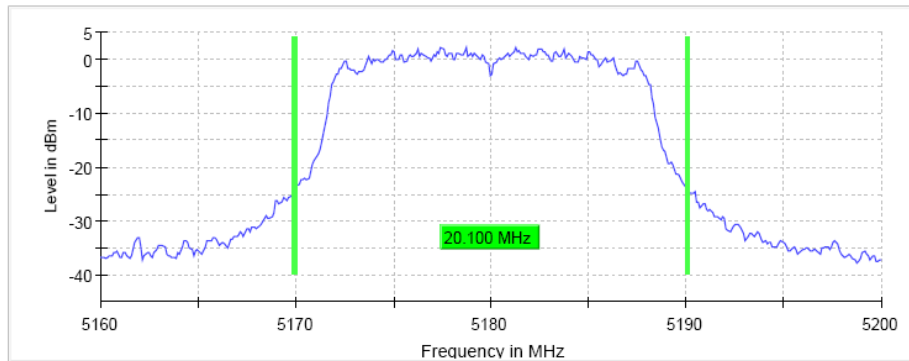
Bandwidth: 20 MHz

	Lowest frequency 5180 MHz	Middle frequency 5200 MHz	Highest frequency 5240 MHz
26dB Bandwidth (MHz)	20.1	19.9	19.9
Occupied bandwidth (MHz)	16.3	16.3	16.3
Measurement uncertainty (kHz)	<± 2.08		

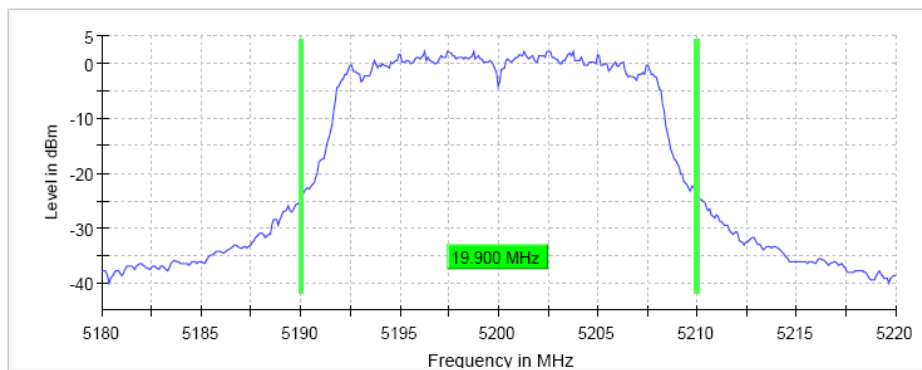
TEST RESULTS (Cont.):

26 dB BANDWIDTH

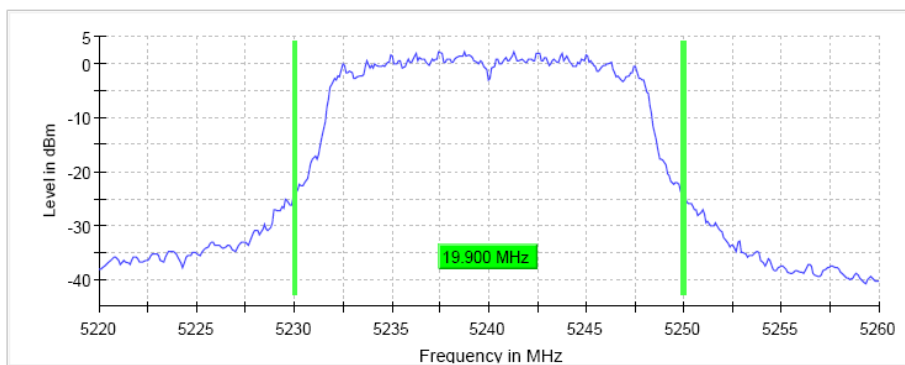
Lowest Channel



Middle Channel



Highest Channel



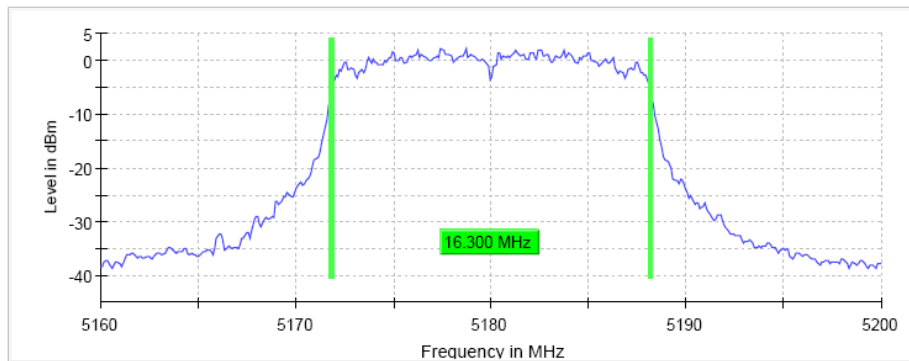
TEST RESULTS (Cont.)

Measurement

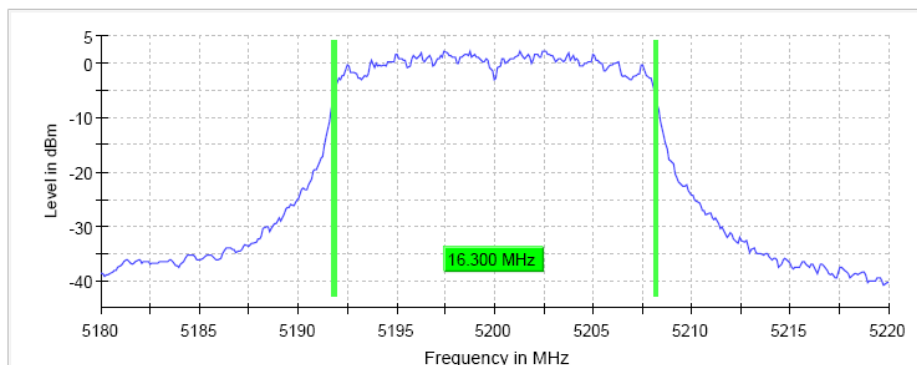
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.16000 GHz	5.18000 GHz	5.22000 GHz
Stop Frequency	5.20000 GHz	5.22000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 μ s	28.443 μ s	28.443 μ s
Reference Level	20.000 dBm	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	45 / max. 150	43 / max. 150	41 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.18 dB	0.22 dB	0.20 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
------------------------------	---------------------------

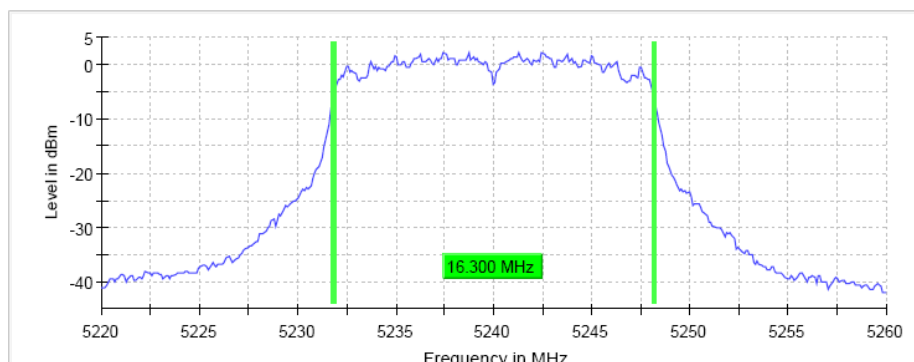
Lowest Channel



Middle Channel



Highest Channel

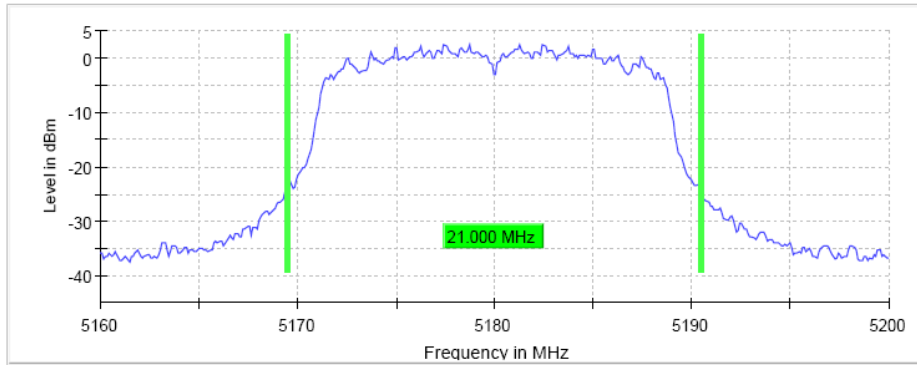


TEST RESULTS (Cont.)				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.16000 GHz	5.18000 GHz	5.22000 GHz
	Stop Frequency	5.20000 GHz	5.22000 GHz	5.26000 GHz
	Span	40.000 MHz	40.000 MHz	40.000 MHz
	RBW	200.000 kHz	200.000 kHz	200.000 kHz
	VBW	1.000 MHz	1.000 MHz	1.000 MHz
	SweepPoints	400	400	400
	Sweeptime	28.477 μ s	28.477 μ s	28.477 μ s
	Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
	Attenuation	20.000 dB	20.000 dB	20.000 dB
	Detector	MaxPeak	MaxPeak	MaxPeak
	SweepCount	200	200	200
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	Sweeptype	FFT	FFT	FFT
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	67 / max. 150	51 / max. 150	56 / max. 150
	Stable	5 / 5	5 / 5	5 / 5
	Max Stable Difference	0.11 dB	0.00 dB	0.22 dB
TESTED SAMPLES:		S/01		
TESTED CONDITIONS MODES:		TC#02 (n Mode)		
TEST RESULTS:		PASS		
Bandwidth: 20 MHz				
		Lowest frequency	Middle frequency	Highest frequency
		5180 MHz	5200 MHz	5240 MHz
	26dB bandwidth (MHz)	21.0	20.4	20.3
	Occupied bandwidth (MHz)	17.5	17.3	17.4
	Measurement uncertainty (kHz)	$<\pm 2.08$		

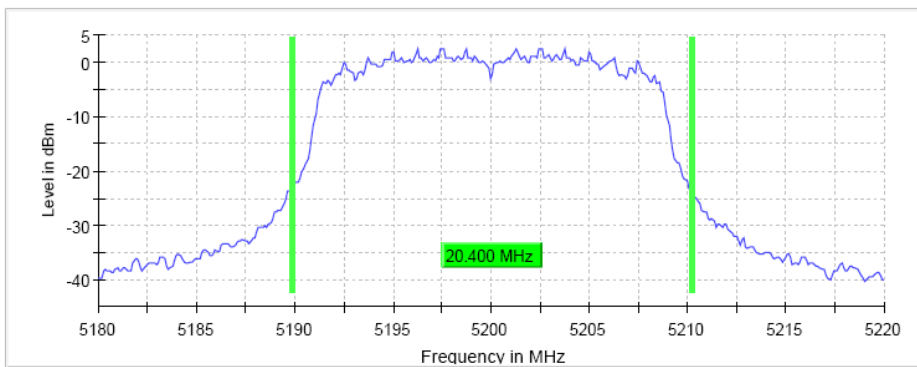
TEST RESULTS (Cont.):

26 dB BANDWIDTH

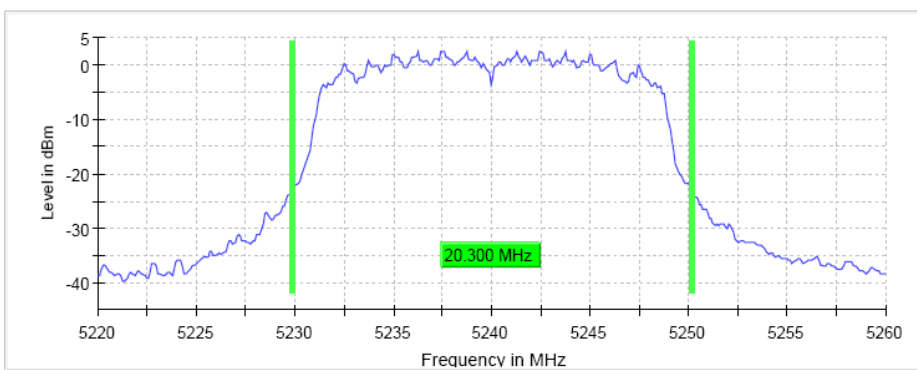
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)

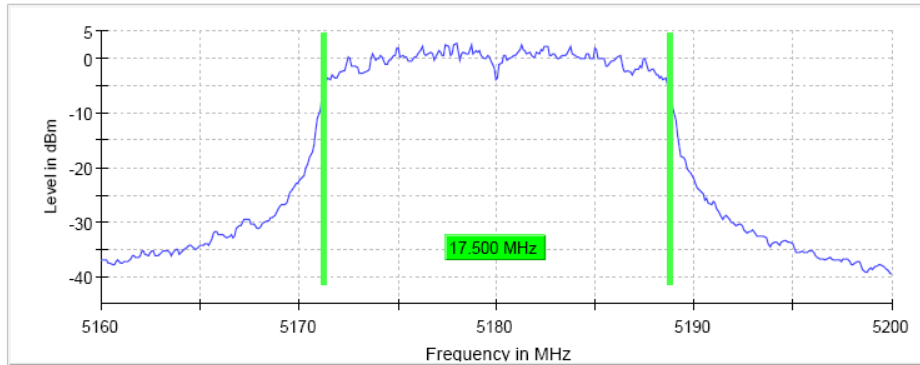
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.16000 GHz	5.18000 GHz	5.22000 GHz
Stop Frequency	5.20000 GHz	5.22000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 μ s	28.443 μ s	28.443 μ s
Reference Level	20.000 dBm	10.000 dBm	10.000 dBm
Attenuation	40.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
SweepType	FFT	FFT	FFT
Preamplifier	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	48 / max. 150	30 / max. 150	33 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.1 dB	0.00 dB	0.02 dB

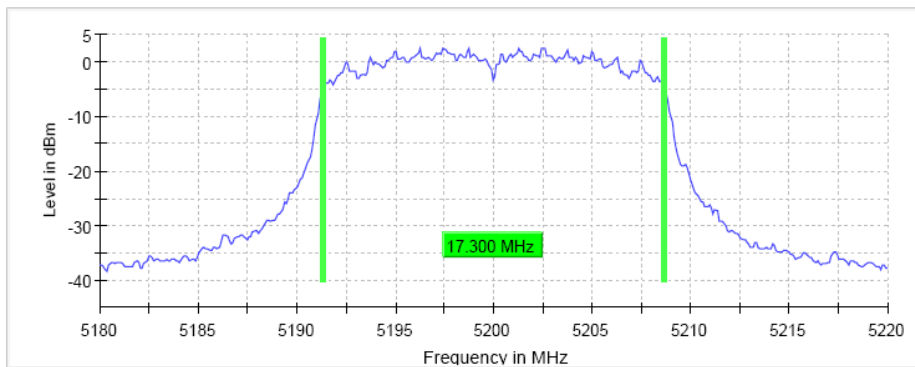
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

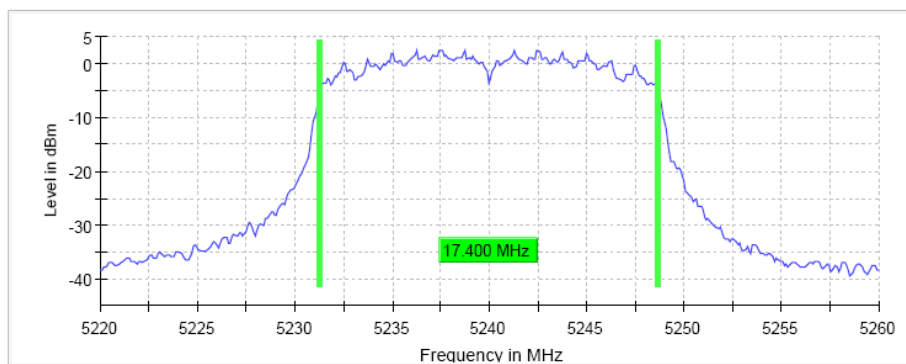
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.16000 GHz	5.18000 GHz	5.22000 GHz
	Stop Frequency	5.20000 GHz	5.22000 GHz	5.26000 GHz
	Span	40.000 MHz	40.000 MHz	40.000 MHz
	RBW	200.000 kHz	200.000 kHz	200.000 kHz
	VBW	1.000 MHz	1.000 MHz	1.000 MHz
	SweepPoints	400	400	400
	SweepTime	28.477 μ s	28.477 μ s	28.477 μ s
	Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
	Attenuation	20.000 dB	20.000 dB	20.000 dB
	Detector	MaxPeak	MaxPeak	MaxPeak
	SweepCount	200	200	200
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	SweepType	FFT	FFT	FFT
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	57 / max. 150	95 / max. 150	78 / max. 150
	Stable	5 / 5	5 / 5	5 / 5
	Max Stable Difference	0.20 dB	0.26 dB	0.22 dB
TEST RESULTS (Cont.)	N Mode			
Bandwidth: 40 MHz				
		Lowest frequency	Highest frequency	
		5190 MHz	5230 MHz	
	26dB bandwidth (MHz)	41.726	41.126	
	Occupied bandwidth (MHz)	36.25	36.25	
	Measurement uncertainty (kHz)	$<\pm 2.08$		

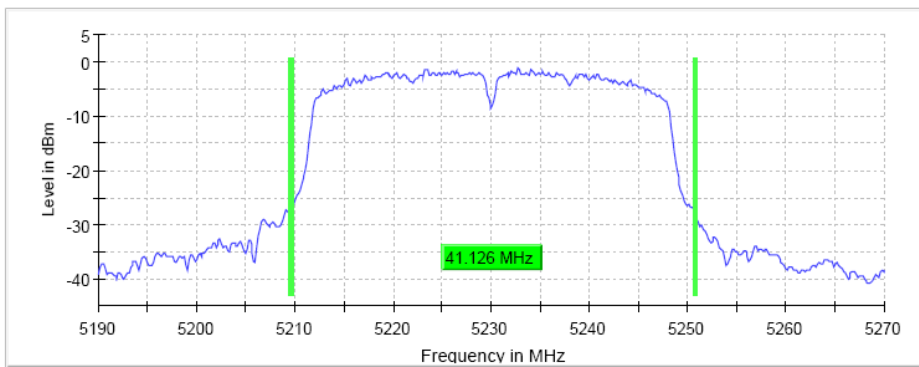
TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.)

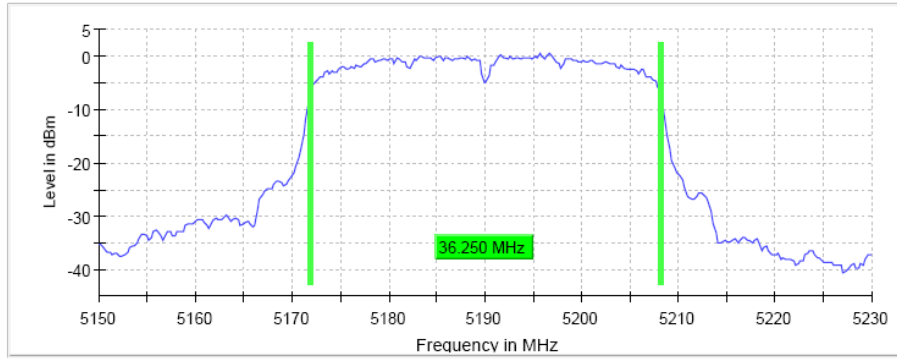
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.15000 GHz	5.19000 GHz
Stop Frequency	5.23000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 kHz
VBW	1.000 MHz	1.000 MHz
SweepPoints	267	267
SweepTime	31.603 us	31.603 us
Reference Level	20.000 dBm	10.000 dBm
Attenuation	40.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	FFT
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	57 / max. 150	45 / max. 150
Stable	5 / 5	5 / 5
Max Stable	0.00 dB	0.28 dB

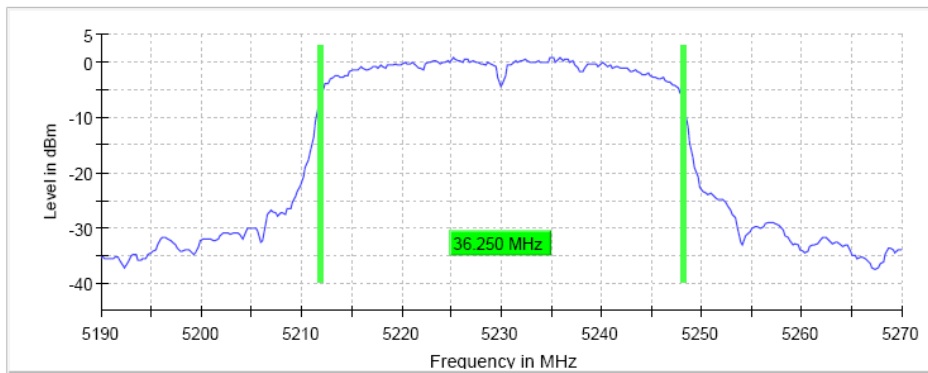
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Highest Channel

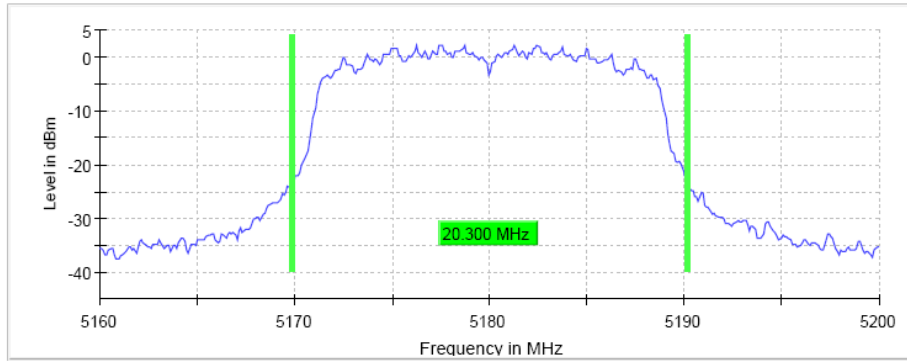


TEST RESULTS (Cont.)																																																																
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TESTED SAMPLES:	S/01																																																															
TESTED CONDITIONS MODES:	TC#03 (ac mode)																																																															
TEST RESULTS:	PASS																																																															
Bandwidth: 20 MHz																																																																
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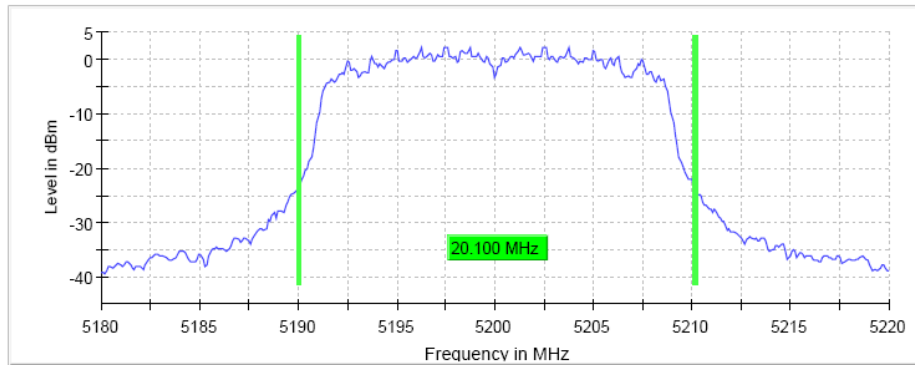
TEST RESULTS (Cont.):

26 dB BANDWIDTH

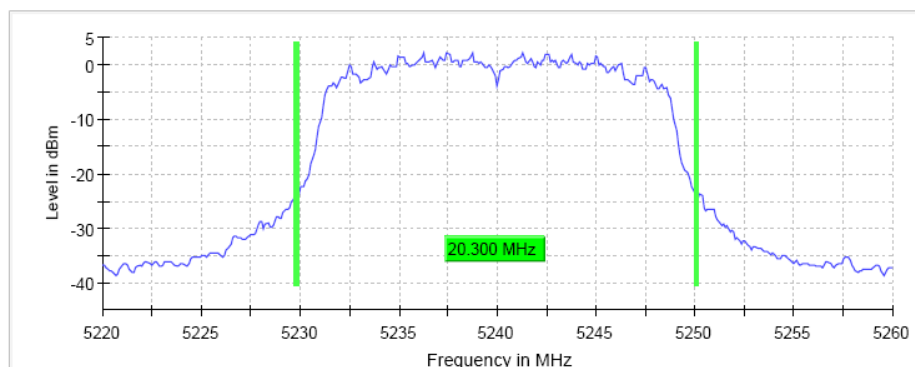
Lowest Channel



Middle Channel



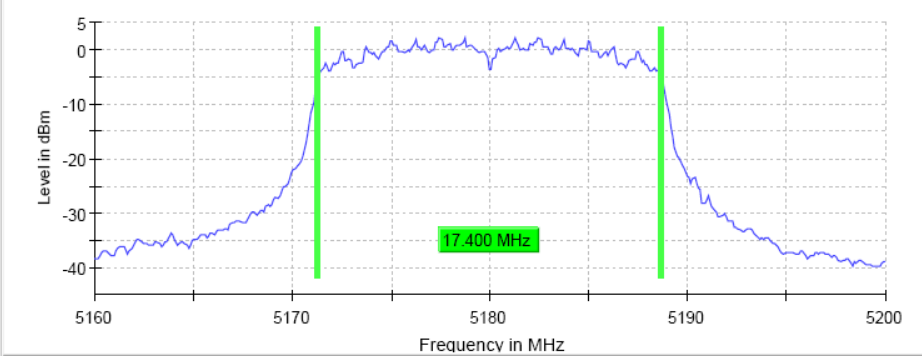
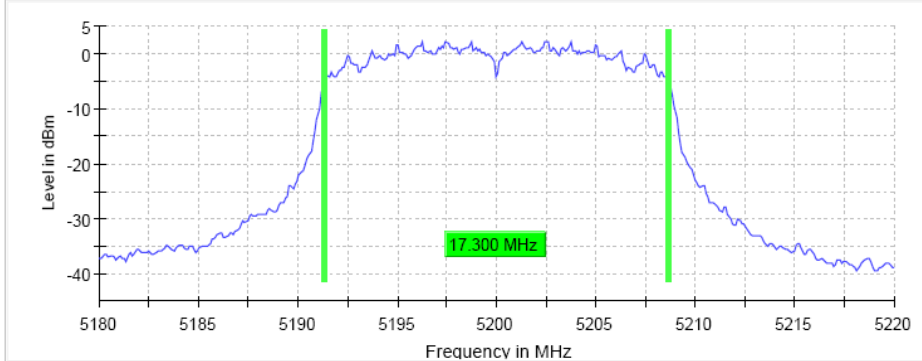
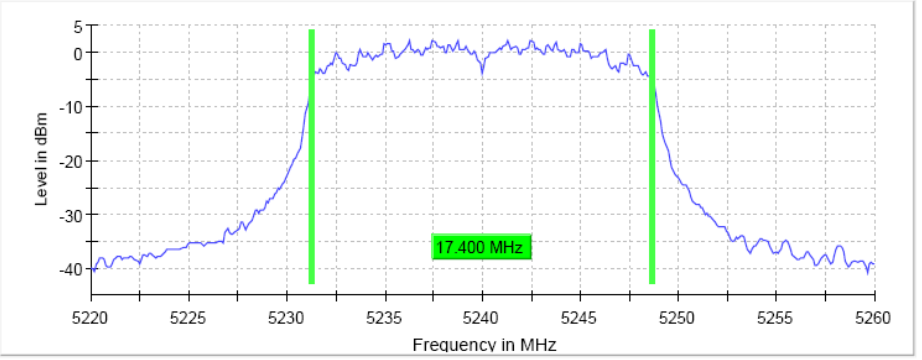
Highest Channel



TEST RESULTS (Cont.)

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.16000 GHz	5.18000 GHz	5.22000 GHz
Stop Frequency	5.20000 GHz	5.22000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 µs	28.443 µs	28.443 µs
Reference Level	20.000 dBm	10.000 dBm	10.000 dBm
Attenuation	40.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	32 / max. 150	29 / max. 150	43 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.20 dB	0.21 dB	0.00 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
<p>Lowest Channel</p> 	
<p>Middle Channel</p> 	
<p>Highest Channel</p> 	

TEST RESULTS (Cont.)	
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Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.16000 GHz	5.18000 GHz	5.22000 GHz
Stop Frequency	5.20000 GHz	5.22000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	400	400	400
Sweeptime	28.477 µs	28.477 µs	28.477 µs
Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	52 / max. 150	74 / max. 150	75 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.03 dB	0.00 dB	0.29 dB

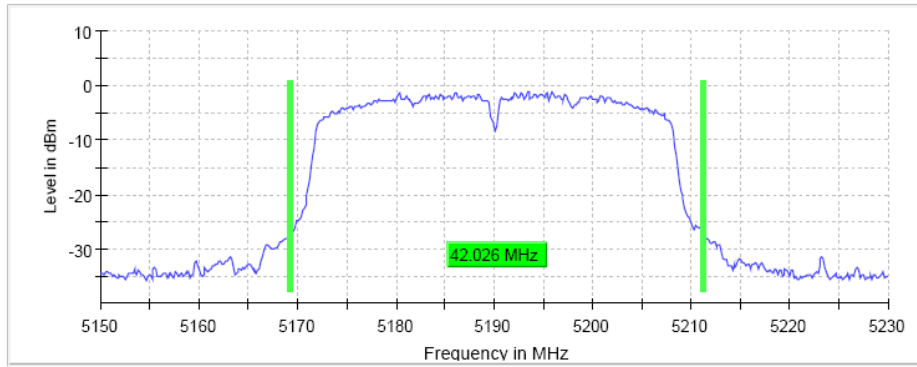
TEST RESULTS	ac mode (40 MHz)
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	Lowest frequency	Highest frequency
	5190 MHz	5230 MHz
26dB bandwidth (MHz)	42.026	41.876
Occupied bandwidth (MHz)	36.25	36.0
Measurement uncertainty (kHz)	<± 2.08	

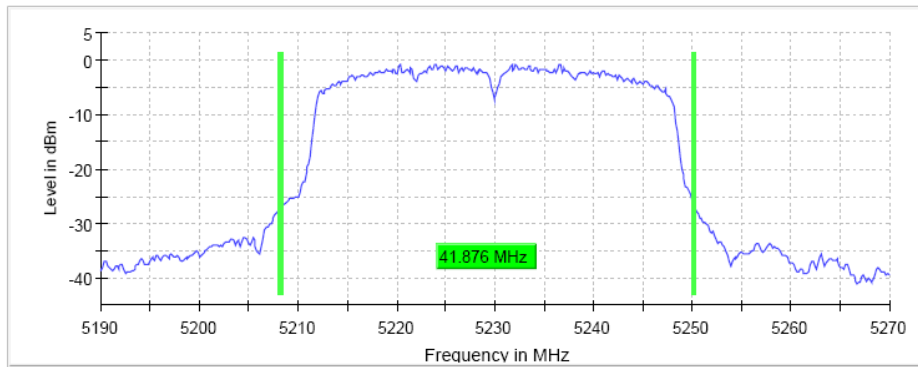
TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.)

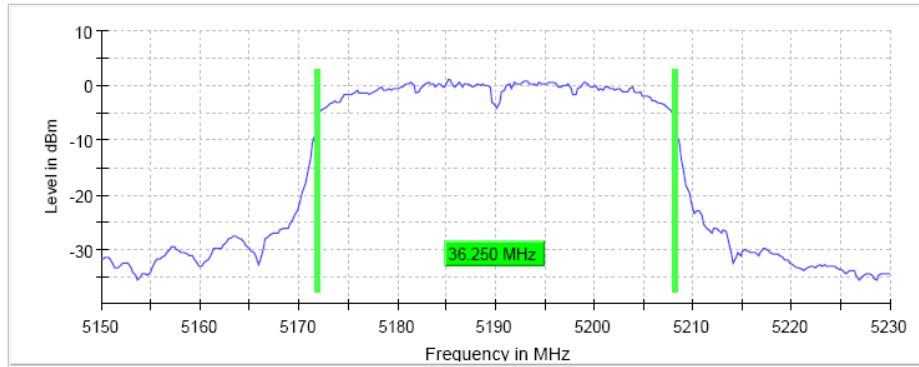
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.15000 GHz	5.19000 GHz
Stop Frequency	5.23000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 kHz
VBW	1.000 MHz	1.000 MHz
SweepPoints	267	267
Sweeptime	31.603 μ s	31.603 μ s
Reference Level	20.000 dBm	10.000 dBm
Attenuation	40.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	106 / max. 150	115 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB

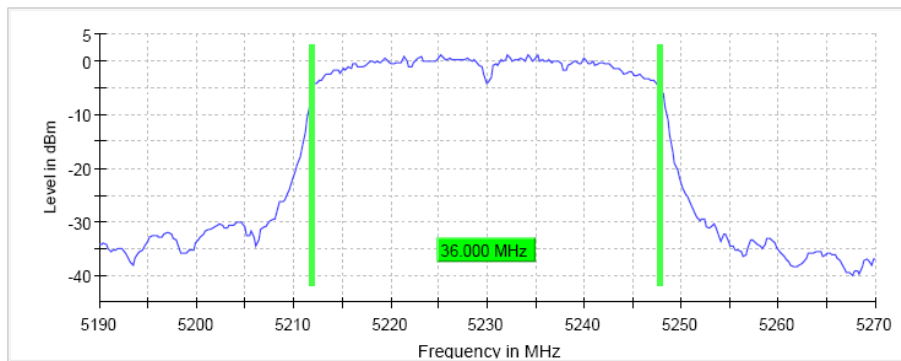
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.)

Measurement

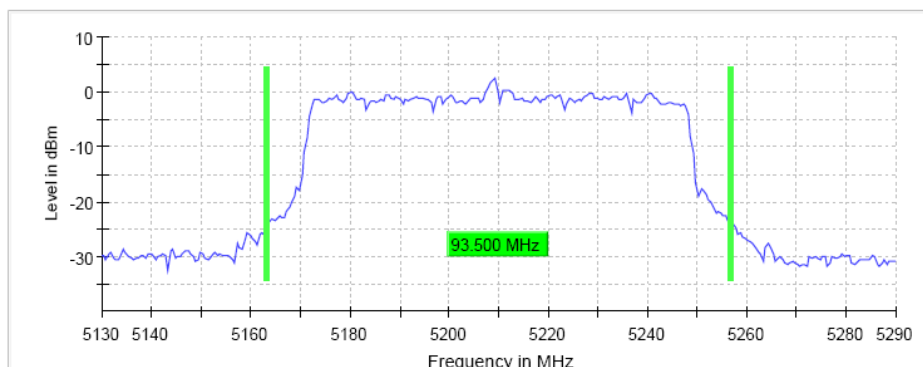
Setting	Instrument Value	Instrument Value
Start Frequency	5.15000 GHz	5.19000 GHz
Stop Frequency	5.23000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	500.000 kHz
VBW	2.000 MHz	2.000 MHz
SweepPoints	320	320
SweepTime	18.906 us	18.906 us
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	Max Peak	Max Peak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	FFT
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	72 / max. 150	55 / max. 150
Stable	5 / 5	5 / 5
Max Stable	0.04 dB	0.24 dB

TEST RESULTS **ac mode (80 MHz)**

	Lowest frequency 5210 MHz
26dB bandwidth (MHz)	93.5
Occupied bandwidth (MHz)	76.5
Measurement uncertainty (kHz)	<± 2.08

TEST RESULTS (Cont.): **26 dB BANDWIDTH**

Lowest Channel



TEST RESULTS (Cont.):

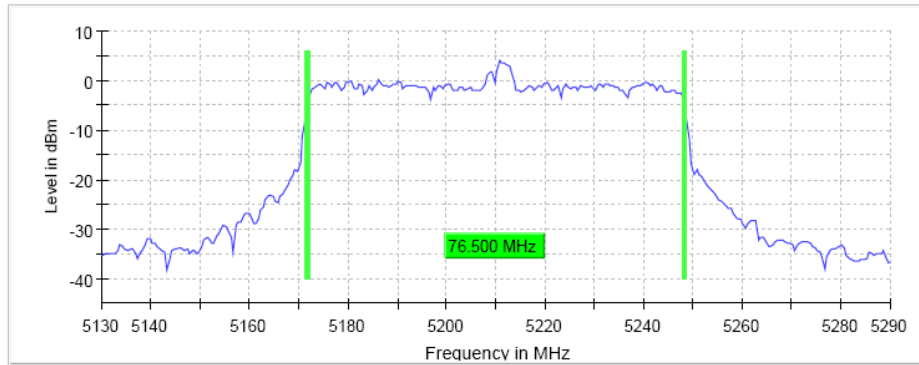
Measurement

Setting	Instrument Value
Start Frequency	5.13000 GHz
Stop Frequency	5.29000 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
SweepPoints	160
Sweeptime	22.754 μ s
Reference Level	20.000 dBm
Attenuation	40.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	FFT
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	54 / max. 150
Stable	5 / 5
Max Stable Difference	0.00 dB

TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Measurement

Setting	Instrument Value
Start Frequency	5.13000 GHz
Stop Frequency	5.29000 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
SweepPoints	320
Sweeptime	22.875 μ s
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
SweepType	FFT
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	65 / max. 150
Stable	5 / 5
Max Stable Difference	0.00 dB

TEST B.2: POWER LIMITS. MAXIMUM OUTPUT POWER

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(a) (1) (4) and RSS-247 6.2.1.1

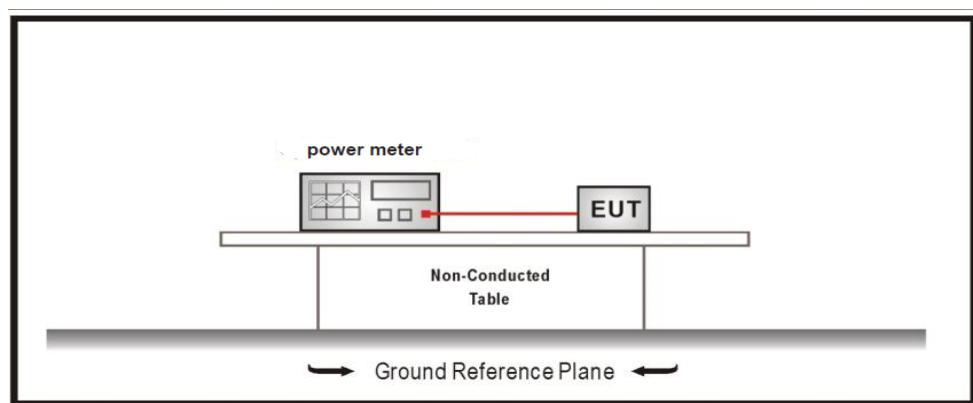
LIMITS

In band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

Measured according to ANSI C63.10, Section 11.9.2.3.2 Method AVGPM-G

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

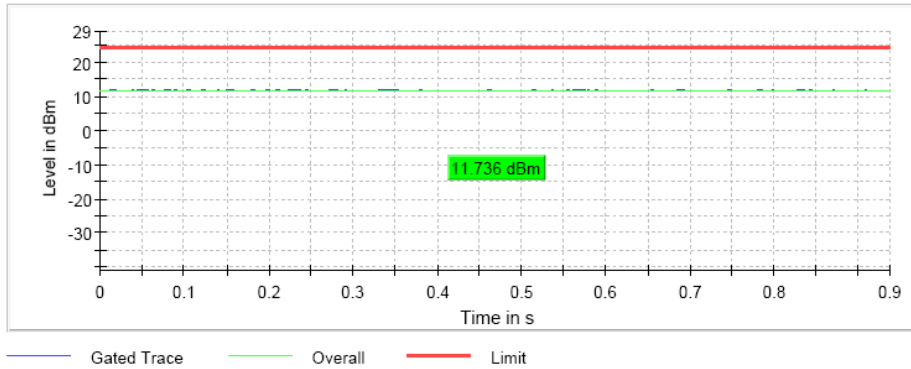
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5180 MHz	Middle frequency 5200 MHz	Highest frequency 5240 MHz
Maximum conducted power (dBm)	11.7	11.9	11.6
Maximum EIRP power (dBm)	16.2	16.4	16.1
Measurement uncertainty (dB)	<±0.78		

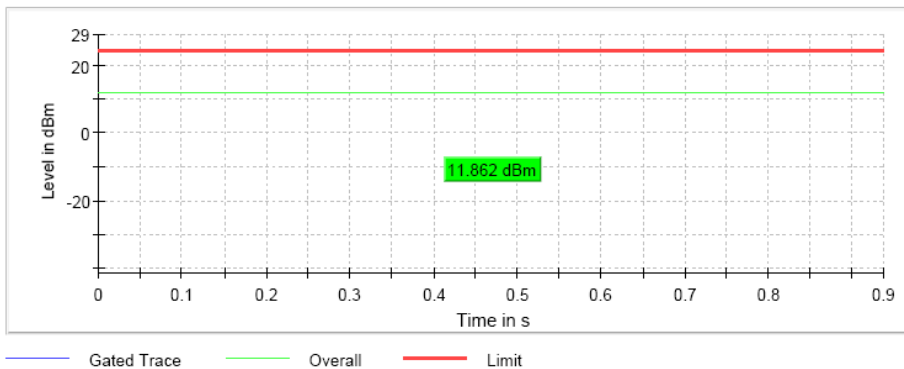
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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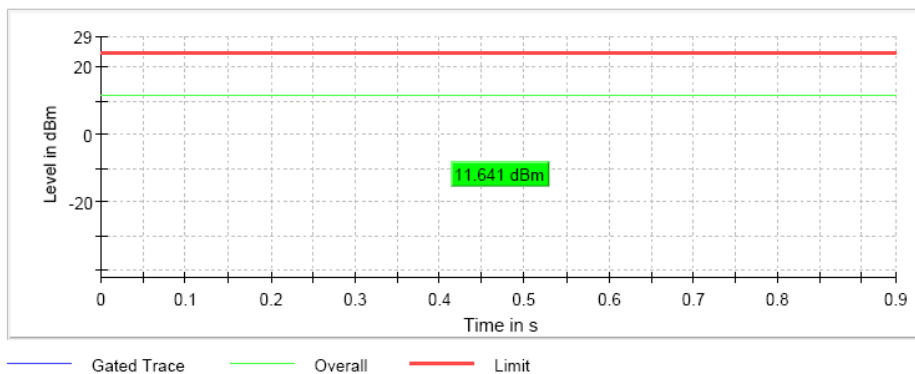
Lowest Channel



Middle Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

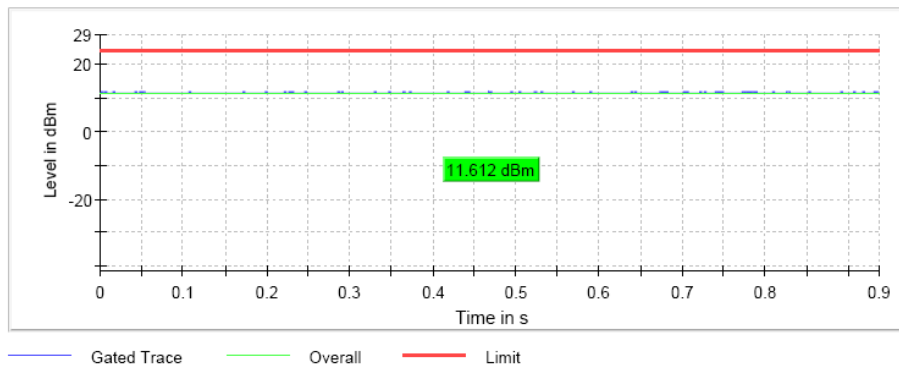
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5180 MHz	Middle frequency 5200 MHz	Highest frequency 5240 MHz
Maximum conducted power (dBm)	11.6	11.7	11.5
Maximum EIRP power (dBm)	16.1	16.2	16.0
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

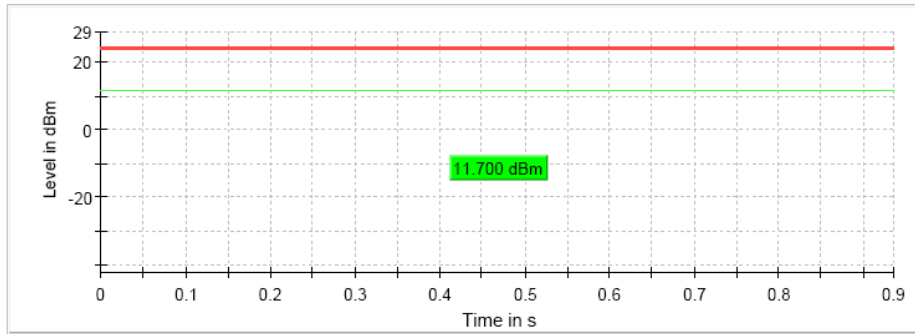
TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



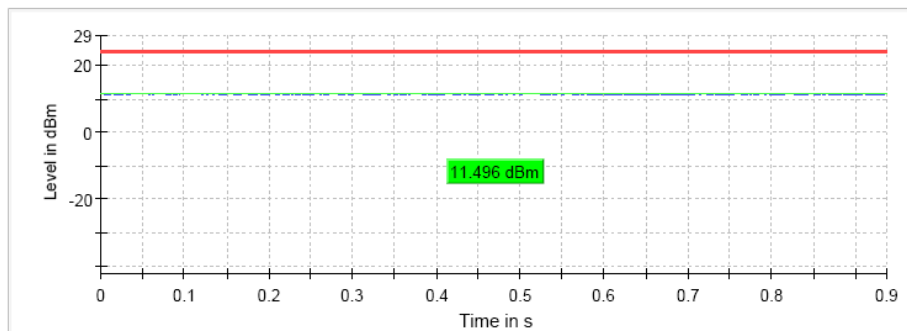
TEST RESULTS (Cont.)

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TEST RESULTS	n Mode (40 MHz)
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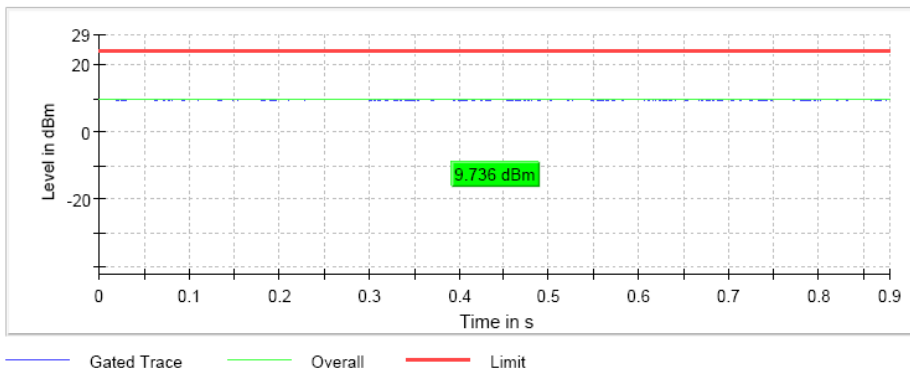
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5190 MHz	Highest frequency 5230 MHz
Maximum conducted power (dBm)	9.7	9.9
Maximum EIRP power (dBm)	14.2	14.4
Measurement uncertainty (dB)	$<\pm 0.78$	

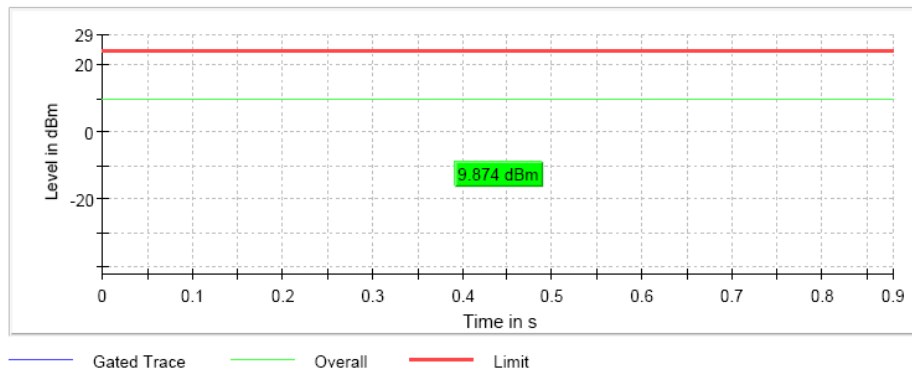
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

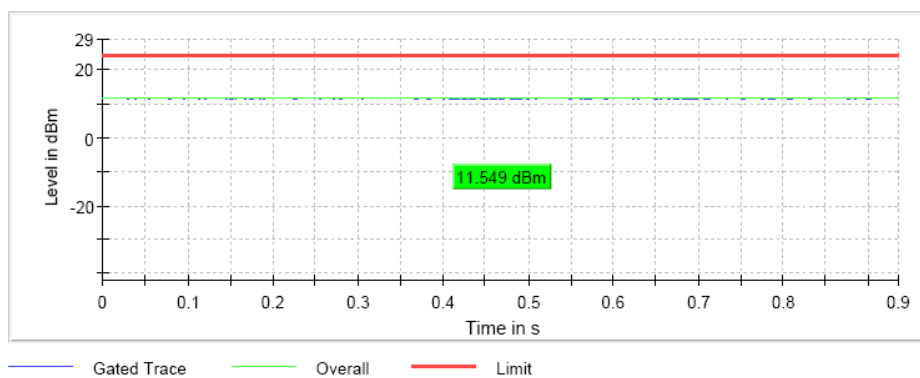
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5180 MHz	Middle frequency 5200 MHz	Highest frequency 5240 MHz
Maximum conducted power (dBm)	11.5	11.7	11.5
Maximum EIRP power (dBm)	16.0	16.2	16.0
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

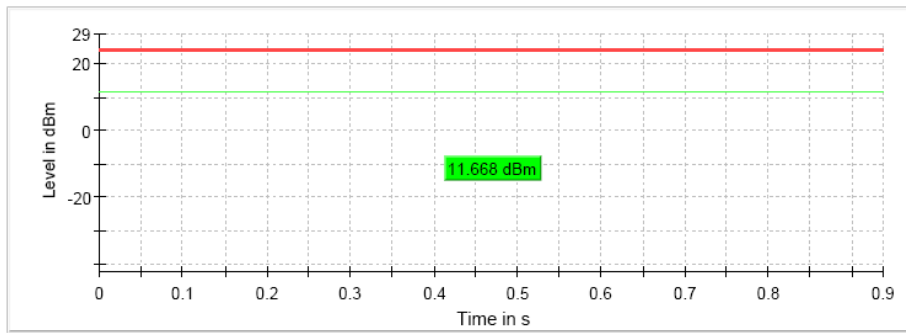
TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



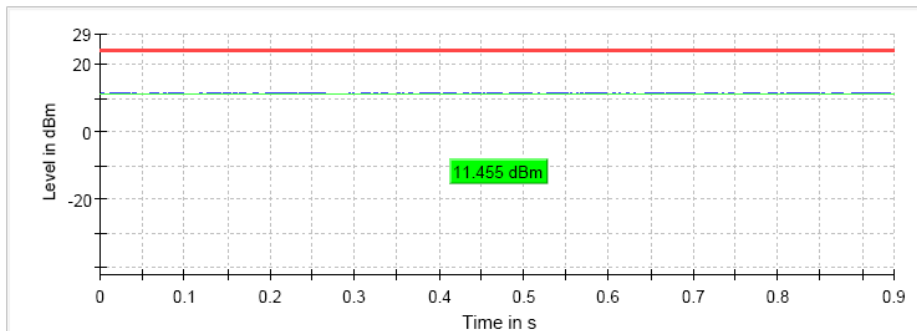
TEST RESULTS (Cont.)

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TEST RESULTS	ac mode (40 MHz)
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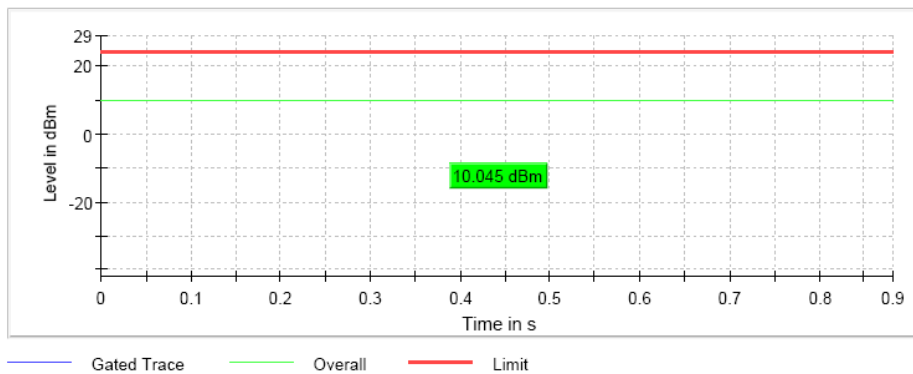
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency	Highest frequency
	5180 MHz	5230 MHz
Maximum conducted power (dBm)	10.0	10.2
Maximum EIRP power (dBm)	14.5	14.7
Measurement uncertainty (dB)	± 0.78	

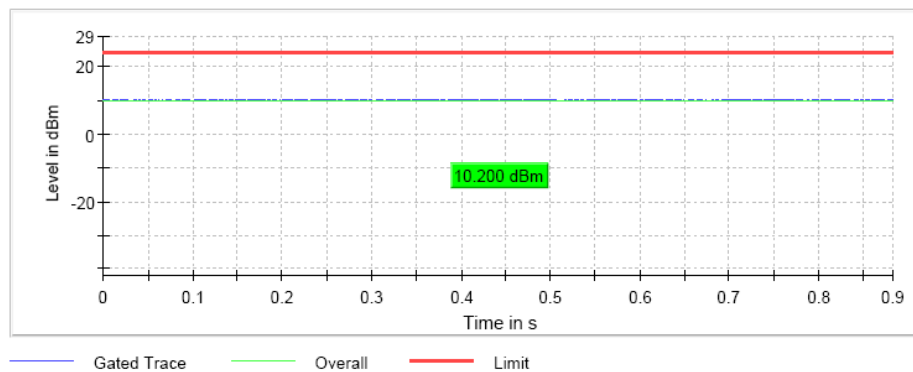
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



Highest Channel



TEST RESULTS	ac mode (80 MHz)
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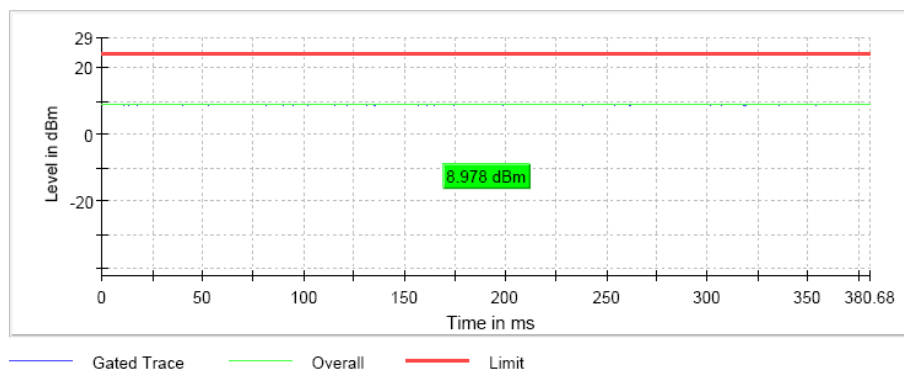
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5210 MHz
Maximum conducted power (dBm)	9.0
Maximum EIRP power (dBm)	13.5
Measurement uncertainty (dB)	<±0.78

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



TEST B.3: POWER SPECTRAL DENSITY

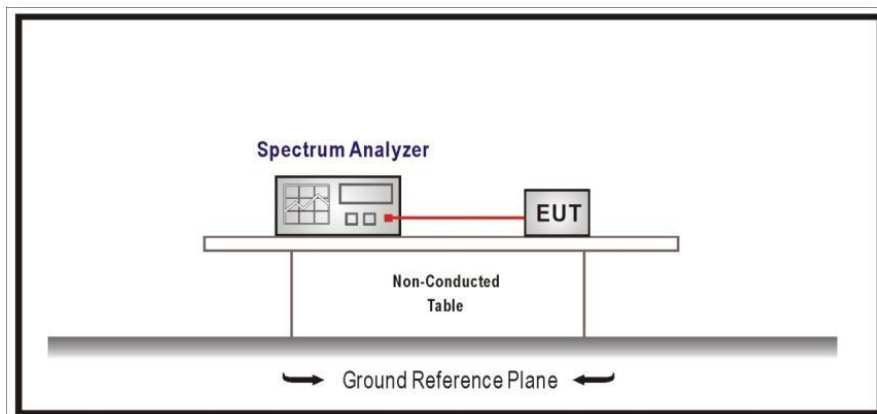
LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(a) (1) (5) and RSS-247 6.2.1.1

LIMITS

In the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

For all modes, the maximum power spectral density level in the fundamental emission was measured using the method according to point F) (Method SA-1) of Guidance 789033 D02 General UNII Test Procedures New Rules v01.



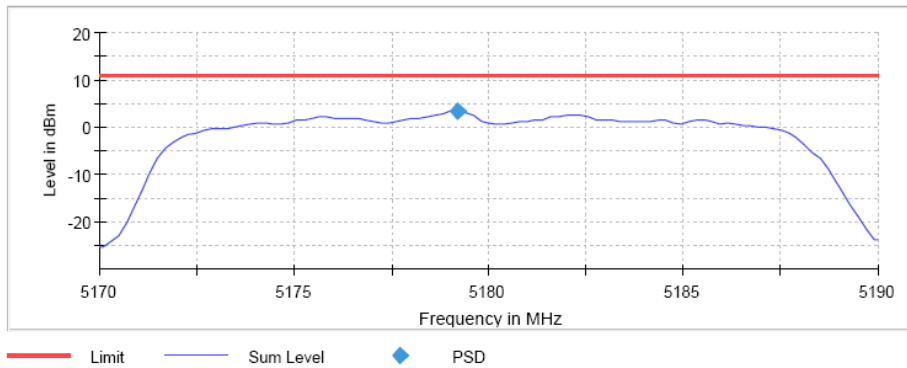
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

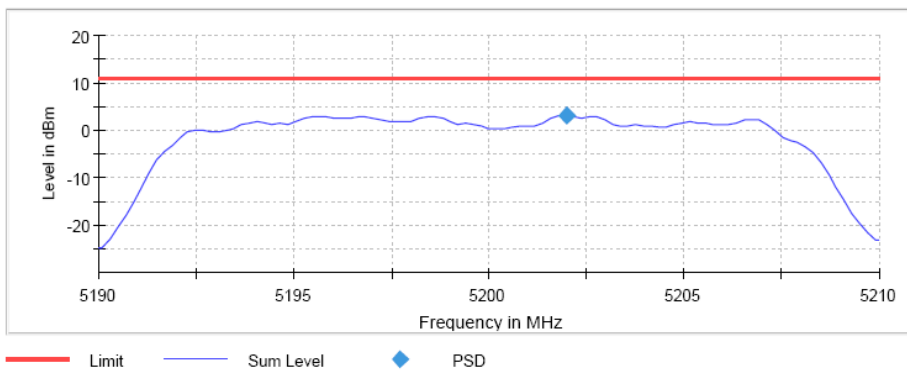
	Lowest frequency	Middle frequency	Highest frequency
	5180 MHz	5200 MHz	5240 MHz
Power spectral density (dBm)	3.448	3.229	3.371
Measurement uncertainty (dB)	<±0.78		

TEST RESULTS (Cont.):

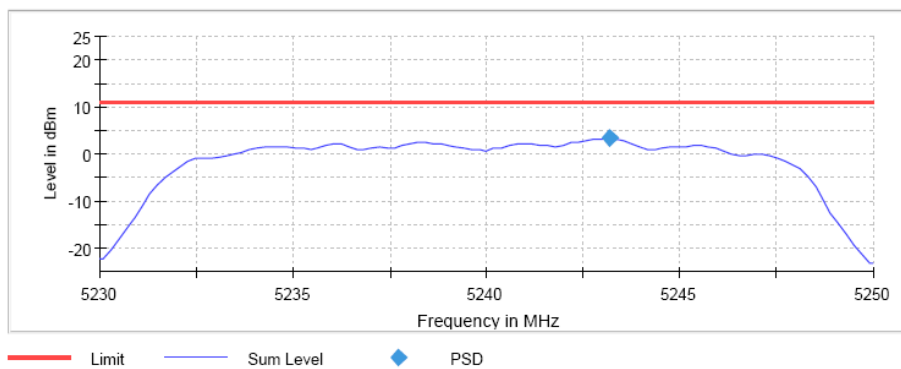
Low Channel



Middle Channel



High Channel



TEST RESULTS (Cont.):

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.17000 GHz	5.19000	5.22000
Stop Frequency	5.19000 GHz	5.21000	5.26000
Span	20.000 MHz	20.000	20.000 MHz
RBW	1.000 MHz	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz	3.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	20.000	20.000	20.000 dBm
Attenuation	40.000 dB	40.000 dB	40.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
SweepType	Sweep	Sweep	Sweep
Preamplifier	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max.	4 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.08 dB	0.34 dB	0.22 dB

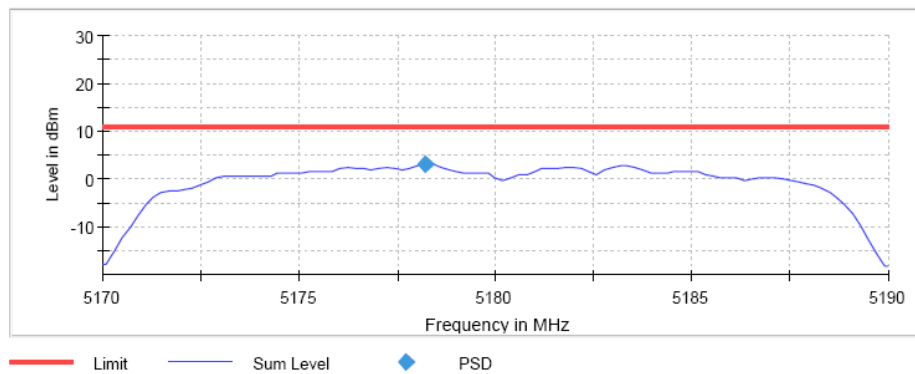
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

	Lowest frequency 5180 MHz	Middle frequency 5200 MHz	Highest frequency 5240 MHz
Power spectral density (dBm)	3.184	2.866	3.235
Measurement uncertainty (dB)	<±0.78		

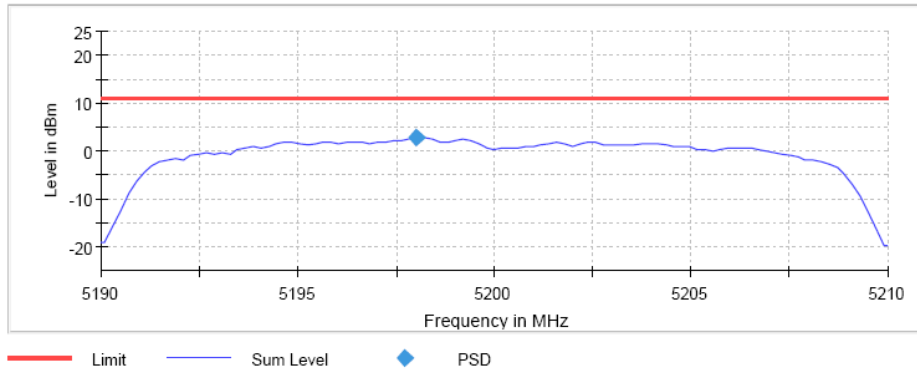
TEST RESULTS (Cont.):	
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Low Channel

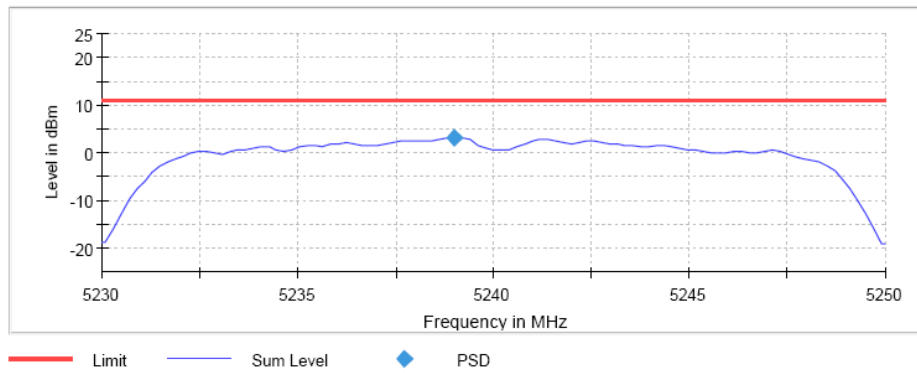


TEST RESULTS (Cont.):

Middle Channel



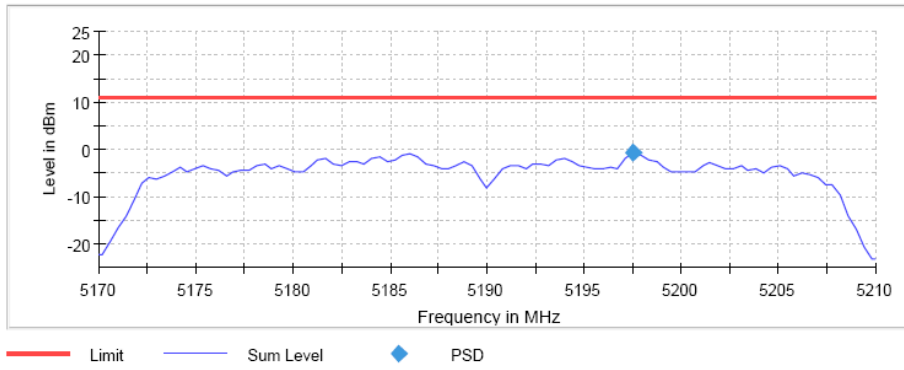
High Channel



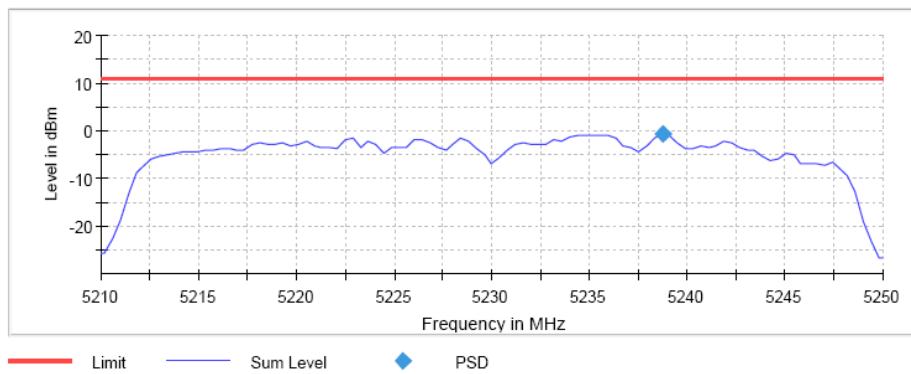
TEST RESULTS (Cont.):				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.17000	5.19000	5.23000
	Stop Frequency	5.19000	5.21000	5.25000
	Span	20.000 MHz	20.000 MHz	20.000 MHz
	RBW	1.000 MHz	1.000 MHz	1.000 MHz
	VBW	3.000 MHz	3.000 MHz	3.000 MHz
	SweepPoints	101	101	101
	Sweeptime	2.020 s	2.020 s	2.020 s
	Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
	Attenuation	30.000 dB	30.000 dB	30.000 dB
	Detector	RMS	RMS	RMS
	SweepCount	3	3	3
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	Sweeptype	Sweep	Sweep	Sweep
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	4 / max. 150	4 / max. 150	4 / max. 150
	Stable	3 / 3	3 / 3	3 / 3
	Max Stable Difference	0.04 dB	0.06 dB	0.04 dB
TEST RESULTS (Cont.):	N Mode			
Bandwidth: 40 MHz				
		Lowest frequency	Highest frequency	
		5190 MHz	5230 MHz	
	Power spectral density (dBm)	-0.695	-0.598	
	Measurement uncertainty (dB)	<±0.78		

TEST RESULTS (Cont.):

Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

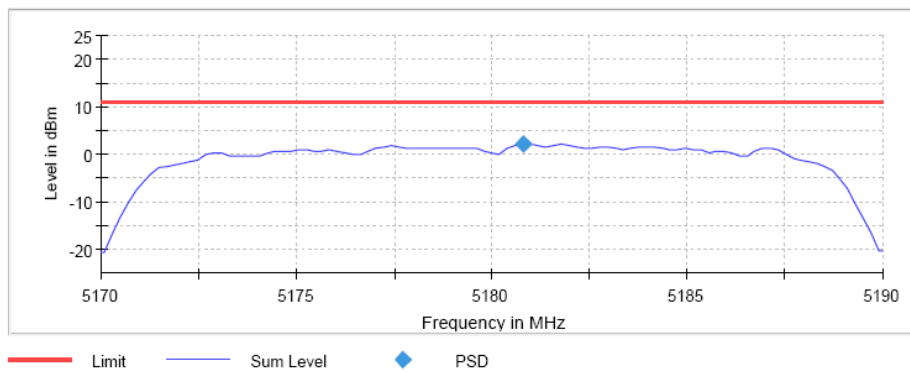
Setting	Instrument Value	Instrument Value
Start Frequency	5.17000	5.21000
Stop Frequency	5.21000	5.25000
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	101	101
Sweeptime	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.05 dB	0.04 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

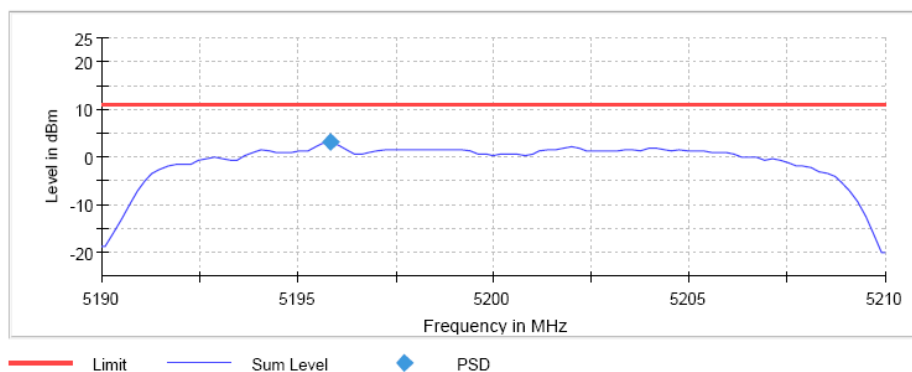
Bandwidth: 20 MHz

	Lowest frequency 5180 MHz	Middle frequency 5200 MHz	Highest frequency 5240 MHz
Power spectral density (dBm)	2.184	3.019	2.688
Measurement uncertainty (dB)	<±0.78		

Lowest Channel

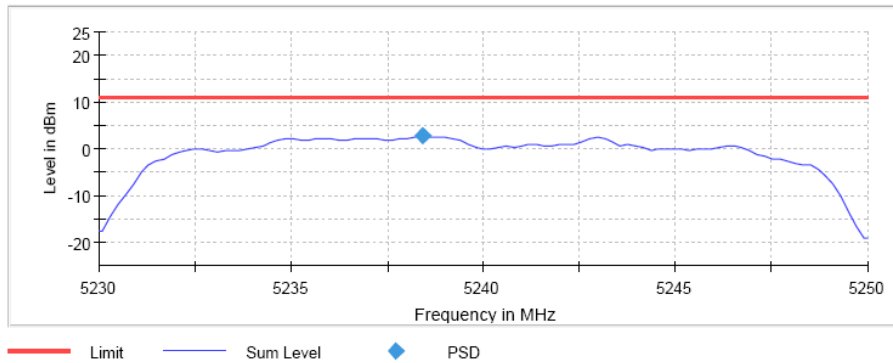


Middle Channel



TEST RESULTS (Cont.)

Highest Channel



Measurement

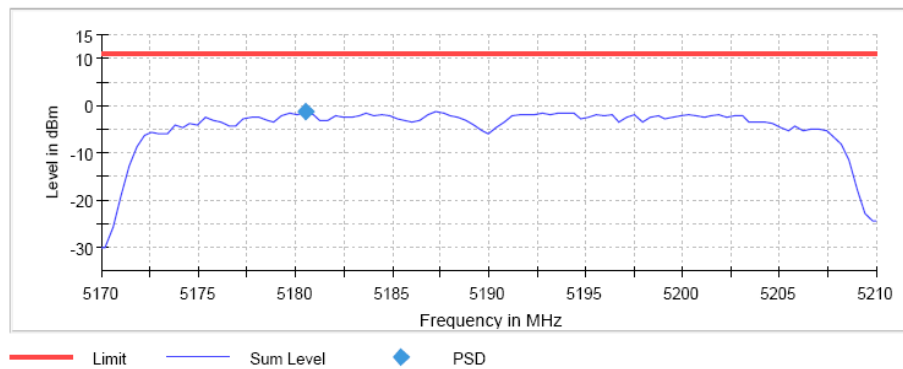
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.17000 GHz	5.19000 GHz	5.23000 GHz
Stop Frequency	5.19000 GHz	5.21000 GHz	5.25000 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	1.000 MHz	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz	3.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	Sweep	Sweep	Sweep
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable Difference	0.03 dB	0.05 dB	0.06 dB

TEST RESULTS	ac Mode (40 MHz)
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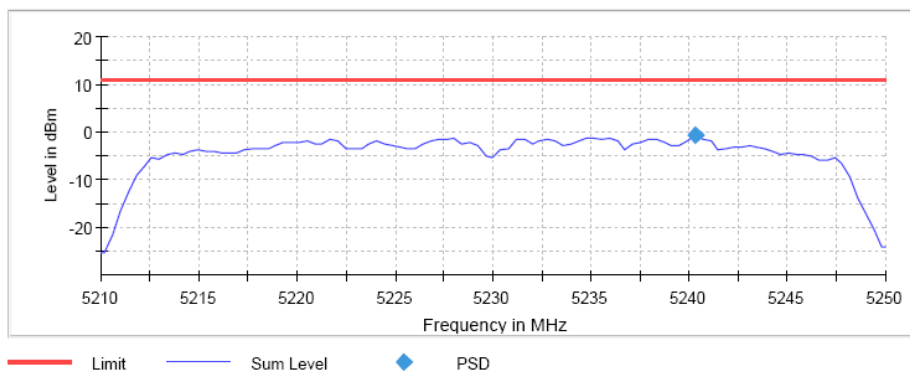
	Lowest frequency 5190 MHz	Highest frequency 5230 MHz
Power spectral density (dBm)	-1.137	-0.728
Measurement uncertainty (dB)	$<\pm 0.78$	

TEST RESULTS (Cont.):	
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Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

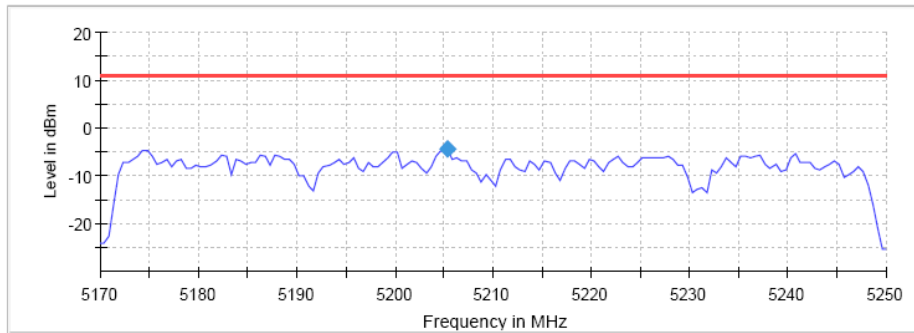
Setting	Instrument Value	Instrument Value
Start Frequency	5.17000	5.21000
Stop Frequency	5.21000	5.25000
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	101	101
Sweeptime	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.07 dB	0.08 dB

TEST RESULTS	ac Mode (80 MHz)
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	Lowest frequency 5210 MHz
Power spectral density (dBm)	-4.225
Measurement uncertainty (dB)	<±0.78

TEST RESULTS (Cont.):	
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Lowest Channel



Measurement

Setting	Instrument Value
Start Frequency	5.17000
Stop Frequency	5.25000
Span	80.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
SweepPoints	160
Sweeptime	3.200 s
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	RMS
SweepCount	3
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	Sweep
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	4 / max. 150
Stable	3 / 3
Max Stable Difference	0.11 dB

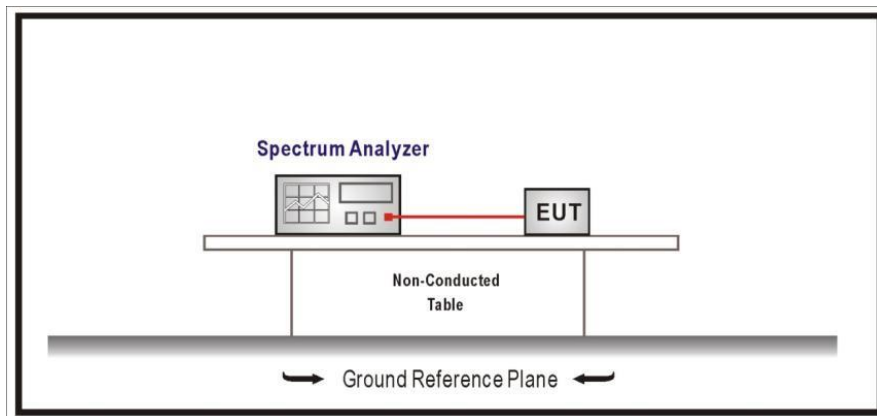
TEST B.4: BAND-EDGE EMISSIONS COMPLIANCE (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b)(1) and RSS-247 6.2.1.2

LIMITS

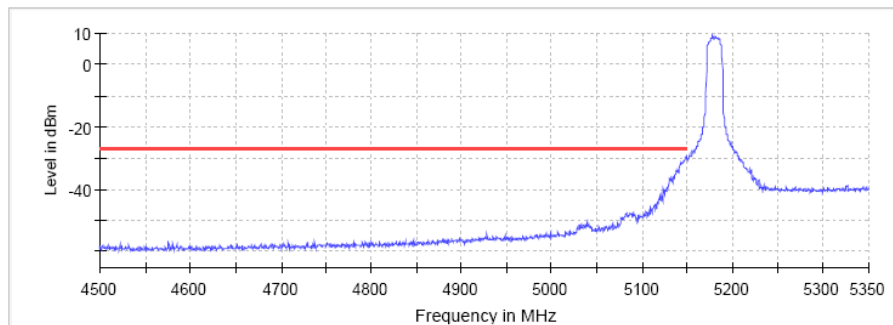
For transmitters operating in the 5.15 – 5.25 GHz band: all emissions outside the frequency band shall not exceed an EIRP of -27 dBm /MHz

TEST SETUP



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Lowest Channel

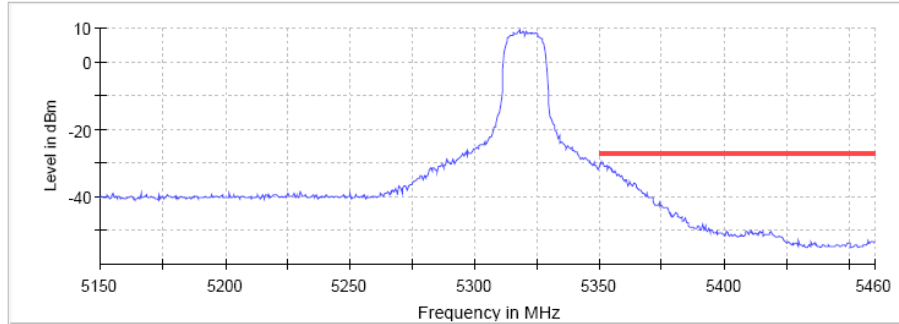


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-29.2	2.2	-27.0	PASS
5148.750000	-29.2	2.2	-27.0	PASS
5149.250000	-29.2	2.2	-27.0	PASS
5148.250000	-29.8	2.8	-27.0	PASS
5147.750000	-29.9	2.9	-27.0	PASS
5146.750000	-30.1	3.1	-27.0	PASS
5147.250000	-30.3	3.3	-27.0	PASS
5145.750000	-31.0	4.0	-27.0	PASS
5146.250000	-31.1	4.1	-27.0	PASS
5144.250000	-31.4	4.4	-27.0	PASS
5145.250000	-31.4	4.4	-27.0	PASS
5144.750000	-31.5	4.5	-27.0	PASS
5143.750000	-31.5	4.5	-27.0	PASS
5142.750000	-31.9	4.9	-27.0	PASS
5141.750000	-31.9	4.9	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



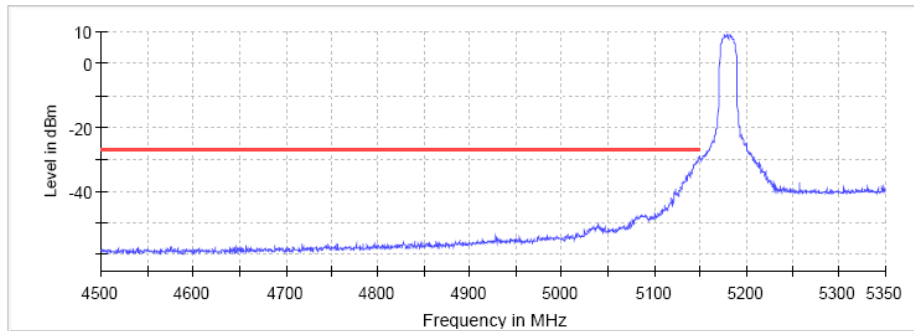
— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-29.7	2.7	-27.0	PASS
5351.250000	-30.0	3.0	-27.0	PASS
5350.750000	-30.3	3.3	-27.0	PASS
5352.750000	-30.7	3.7	-27.0	PASS
5352.250000	-31.0	4.0	-27.0	PASS
5351.750000	-31.2	4.2	-27.0	PASS
5353.750000	-31.3	4.3	-27.0	PASS
5354.250000	-31.5	4.5	-27.0	PASS
5355.250000	-31.8	4.8	-27.0	PASS
5353.250000	-31.9	4.9	-27.0	PASS
5354.750000	-32.2	5.2	-27.0	PASS
5356.250000	-32.4	5.4	-27.0	PASS
5355.750000	-32.7	5.7	-27.0	PASS
5357.750000	-33.2	6.2	-27.0	PASS
5357.250000	-33.2	6.2	-27.0	PASS

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel

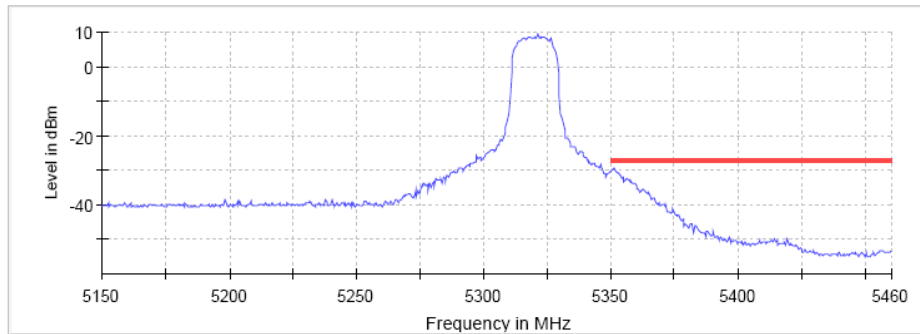


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-29.0	2.0	-27.0	PASS
5149.250000	-29.1	2.1	-27.0	PASS
5148.750000	-29.3	2.3	-27.0	PASS
5148.250000	-29.5	2.5	-27.0	PASS
5147.750000	-29.7	2.7	-27.0	PASS
5147.250000	-30.6	3.6	-27.0	PASS
5145.250000	-30.8	3.8	-27.0	PASS
5146.750000	-31.0	4.0	-27.0	PASS
5145.750000	-31.1	4.1	-27.0	PASS
5146.250000	-31.2	4.2	-27.0	PASS
5144.250000	-31.5	4.5	-27.0	PASS
5144.750000	-31.5	4.5	-27.0	PASS
5143.750000	-31.5	4.5	-27.0	PASS
5142.750000	-31.6	4.6	-27.0	PASS
5143.250000	-31.9	4.9	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



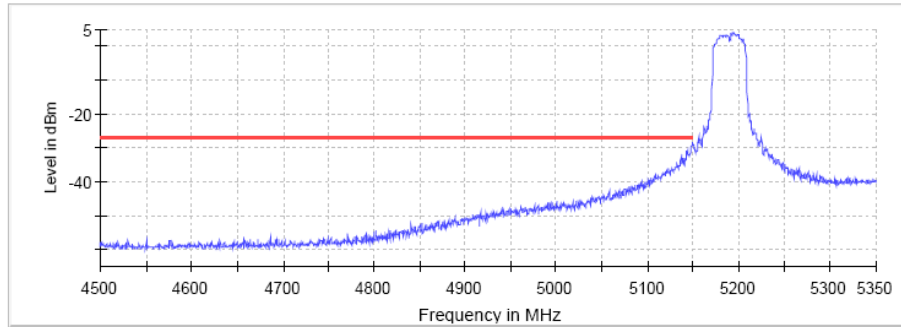
— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5351.250000	-29.3	2.3	-27.0	PASS
5350.250000	-29.9	2.9	-27.0	PASS
5350.750000	-29.9	2.9	-27.0	PASS
5351.750000	-30.4	3.4	-27.0	PASS
5352.250000	-30.6	3.6	-27.0	PASS
5352.750000	-30.8	3.8	-27.0	PASS
5353.250000	-31.3	4.3	-27.0	PASS
5353.750000	-31.7	4.7	-27.0	PASS
5354.750000	-32.1	5.1	-27.0	PASS
5354.250000	-32.4	5.4	-27.0	PASS
5356.250000	-32.4	5.4	-27.0	PASS
5355.750000	-32.7	5.7	-27.0	PASS
5357.750000	-32.7	5.7	-27.0	PASS
5356.750000	-33.0	6.0	-27.0	PASS
5357.250000	-33.1	6.1	-27.0	PASS

TEST RESULTS (Cont.):

n Mode (40 MHz)

Lowest Channel

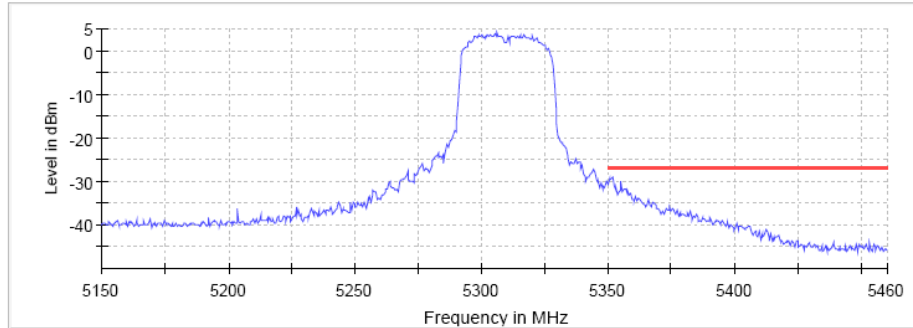


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-28.2	1.2	-27.0	PASS
5149.250000	-28.9	1.9	-27.0	PASS
5148.750000	-29.0	2.0	-27.0	PASS
5148.250000	-29.7	2.7	-27.0	PASS
5147.750000	-30.6	3.6	-27.0	PASS
5147.250000	-30.6	3.6	-27.0	PASS
5144.250000	-30.7	3.7	-27.0	PASS
5143.750000	-30.7	3.7	-27.0	PASS
5142.250000	-31.1	4.1	-27.0	PASS
5146.750000	-31.2	4.2	-27.0	PASS
5143.750000	-31.2	4.2	-27.0	PASS
5144.750000	-31.7	4.7	-27.0	PASS
5145.250000	-32.0	5.0	-27.0	PASS
5146.250000	-32.2	5.2	-27.0	PASS
5137.750000	-32.4	5.4	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



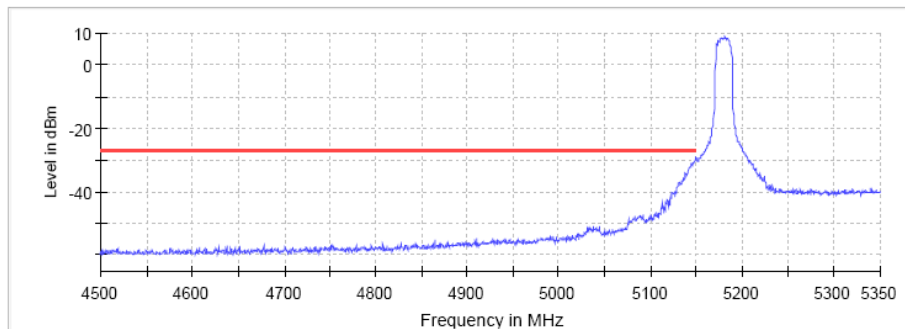
— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5351.750000	-29.1	2.1	-27.0	PASS
5350.250000	-29.3	2.3	-27.0	PASS
5351.250000	-29.3	2.3	-27.0	PASS
5350.750000	-29.8	2.8	-27.0	PASS
5355.250000	-30.2	3.2	-27.0	PASS
5352.250000	-30.9	3.9	-27.0	PASS
5353.250000	-31.6	4.6	-27.0	PASS
5356.250000	-31.7	4.7	-27.0	PASS
5356.750000	-31.8	4.8	-27.0	PASS
5354.750000	-32.0	5.0	-27.0	PASS
5352.750000	-32.1	5.1	-27.0	PASS
5357.750000	-32.2	5.2	-27.0	PASS
5354.250000	-32.3	5.3	-27.0	PASS
5355.750000	-32.4	5.4	-27.0	PASS
5357.250000	-32.6	5.6	-27.0	PASS

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mdoe)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel:

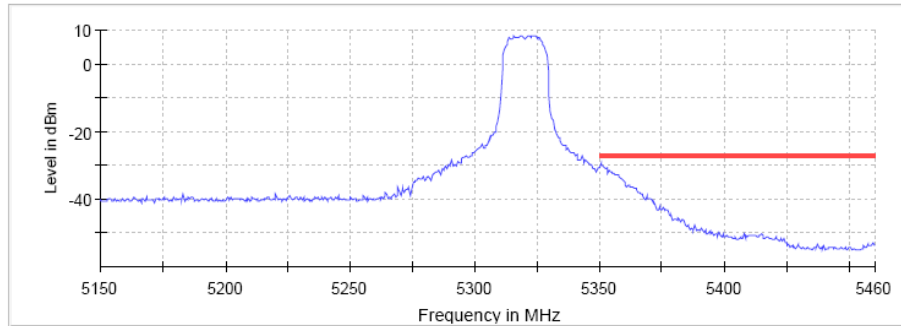


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250000	-28.8	1.8	-27.0	PASS
5149.750000	-29.0	2.0	-27.0	PASS
5148.750000	-29.7	2.7	-27.0	PASS
5147.750000	-30.4	3.4	-27.0	PASS
5148.250000	-30.6	3.6	-27.0	PASS
5146.750000	-30.7	3.7	-27.0	PASS
5145.750000	-30.8	3.8	-27.0	PASS
5147.250000	-31.0	4.0	-27.0	PASS
5146.250000	-31.2	4.2	-27.0	PASS
5144.750000	-31.3	4.3	-27.0	PASS
5145.250000	-31.8	4.8	-27.0	PASS
5143.750000	-31.8	4.8	-27.0	PASS
5144.250000	-31.9	4.9	-27.0	PASS
5142.750000	-32.0	5.0	-27.0	PASS
5141.750000	-32.1	5.1	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



— Limit — Sum Level × Fail

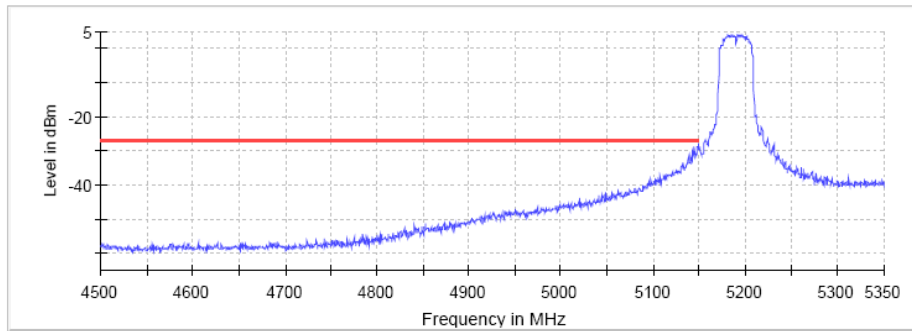
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-29.4	2.4	-27.0	PASS
5350.750000	-29.8	2.8	-27.0	PASS
5351.250000	-30.2	3.2	-27.0	PASS
5351.750000	-30.8	3.8	-27.0	PASS
5352.750000	-30.9	3.9	-27.0	PASS
5352.250000	-31.3	4.3	-27.0	PASS
5353.750000	-31.5	4.5	-27.0	PASS
5354.750000	-32.1	5.1	-27.0	PASS
5354.250000	-32.2	5.2	-27.0	PASS
5355.750000	-32.3	5.3	-27.0	PASS
5353.250000	-32.3	5.3	-27.0	PASS
5355.250000	-32.5	5.5	-27.0	PASS
5356.250000	-32.9	5.9	-27.0	PASS
5356.750000	-33.0	6.0	-27.0	PASS
5357.250000	-33.0	6.0	-27.0	PASS

TEST RESULTS (Cont.):

ac mode (40 MHz)

Bandwidth: 40 MHz

Lowest Channel

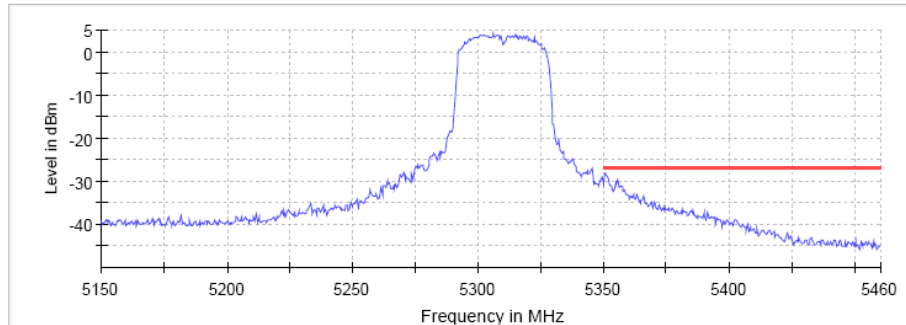


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-27.8	0.8	-27.0	PASS
5149.250000	-28.0	1.0	-27.0	PASS
5144.750000	-28.5	1.5	-27.0	PASS
5148.250000	-28.9	1.9	-27.0	PASS
5148.750000	-28.9	1.9	-27.0	PASS
5142.750000	-29.9	2.9	-27.0	PASS
5146.750000	-30.3	3.3	-27.0	PASS
5144.250000	-30.3	3.3	-27.0	PASS
5143.750000	-30.8	3.8	-27.0	PASS
5142.250000	-31.1	4.1	-27.0	PASS
5145.250000	-31.1	4.1	-27.0	PASS
5147.250000	-31.2	4.2	-27.0	PASS
5147.750000	-31.3	4.3	-27.0	PASS
5138.250000	-31.3	4.3	-27.0	PASS
5145.750000	-31.3	4.3	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



— Limit — Sum Level × Fail

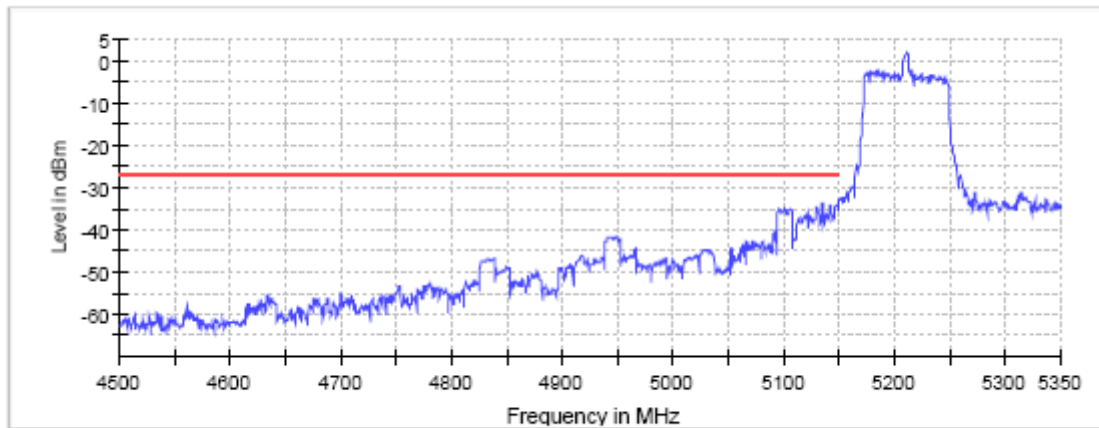
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-27.9	0.9	-27.0	PASS
5350.750000	-28.5	1.5	-27.0	PASS
5351.250000	-28.7	1.7	-27.0	PASS
5351.750000	-29.4	2.4	-27.0	PASS
5355.750000	-29.7	2.7	-27.0	PASS
5354.750000	-30.2	3.2	-27.0	PASS
5355.250000	-30.9	3.9	-27.0	PASS
5352.250000	-31.0	4.0	-27.0	PASS
5356.750000	-31.1	4.1	-27.0	PASS
5352.750000	-31.1	4.1	-27.0	PASS
5353.250000	-31.2	4.2	-27.0	PASS
5357.250000	-31.3	4.3	-27.0	PASS
5356.250000	-31.4	4.4	-27.0	PASS
5354.250000	-31.6	4.6	-27.0	PASS
5358.250000	-32.3	5.3	-27.0	PASS

TEST RESULTS (Cont.):

ac mode (80 MHz)

Bandwidth: 80 MHz

Lowest Channel



— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5146.750000	-30.2	3.2	-27.0	PASS
5113.750000	-31.1	4.1	-27.0	PASS
5147.250000	-31.2	4.2	-27.0	PASS
5146.250000	-31.6	4.6	-27.0	PASS
5148.250000	-31.7	4.7	-27.0	PASS
5147.750000	-31.7	4.7	-27.0	PASS
5116.750000	-31.8	4.8	-27.0	PASS
5113.250000	-32.0	5.0	-27.0	PASS
5126.750000	-32.0	5.0	-27.0	PASS
5120.750000	-32.1	5.1	-27.0	PASS
5140.250000	-32.1	5.1	-27.0	PASS
5149.250000	-32.2	5.2	-27.0	PASS
5127.250000	-32.2	5.2	-27.0	PASS
5114.250000	-32.3	5.3	-27.0	PASS
5121.750000	-32.3	5.3	-27.0	PASS

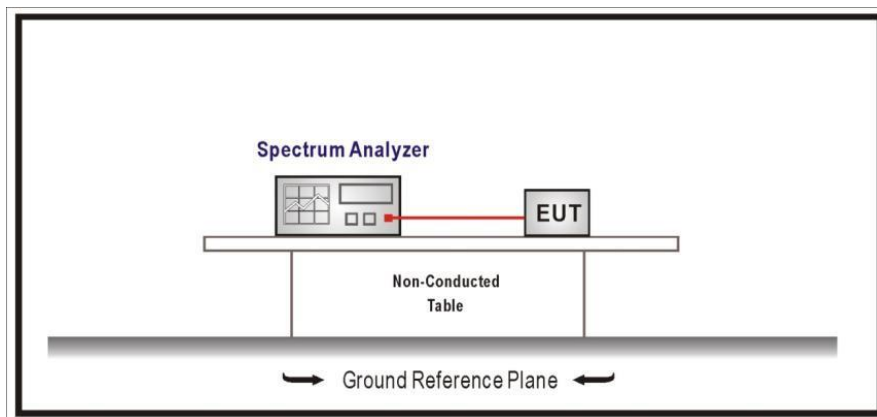
TEST B.5: EMISSION LIMITATIONS CONDUCTED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407, 15.207 and RSS-Gen
	Test standard:	Part 15 Subpart C §15.407(b)(6), 15.207 and RSS-Gen 8.8

LIMITS

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

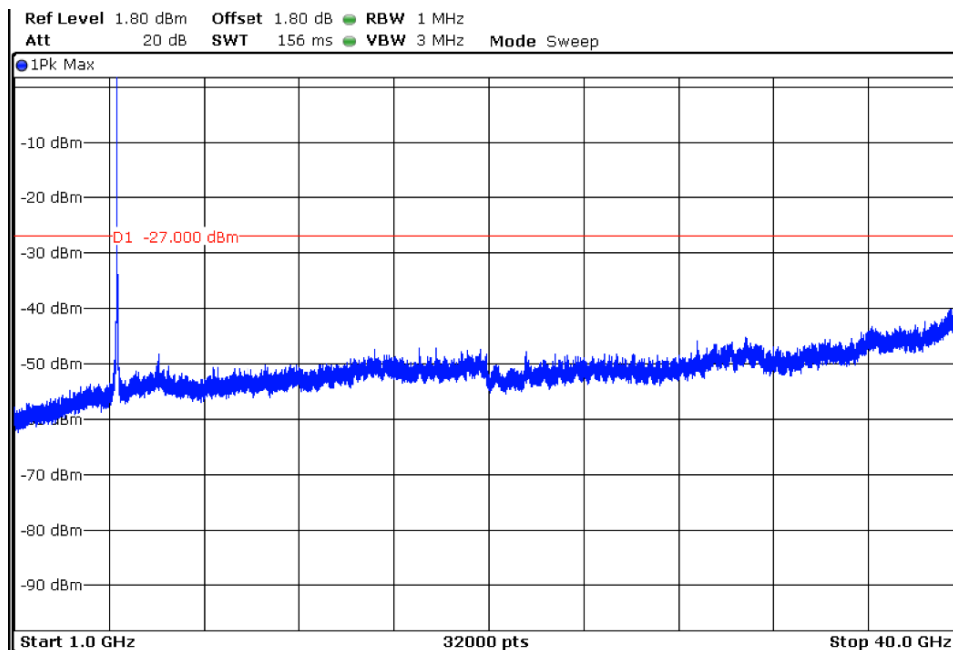
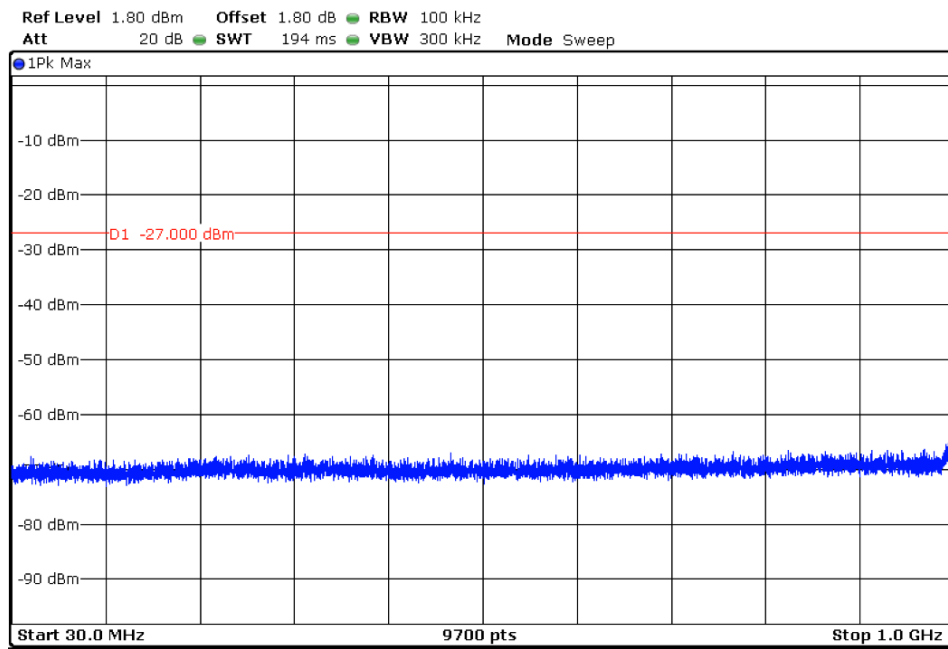
TEST SETUP



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Low channel

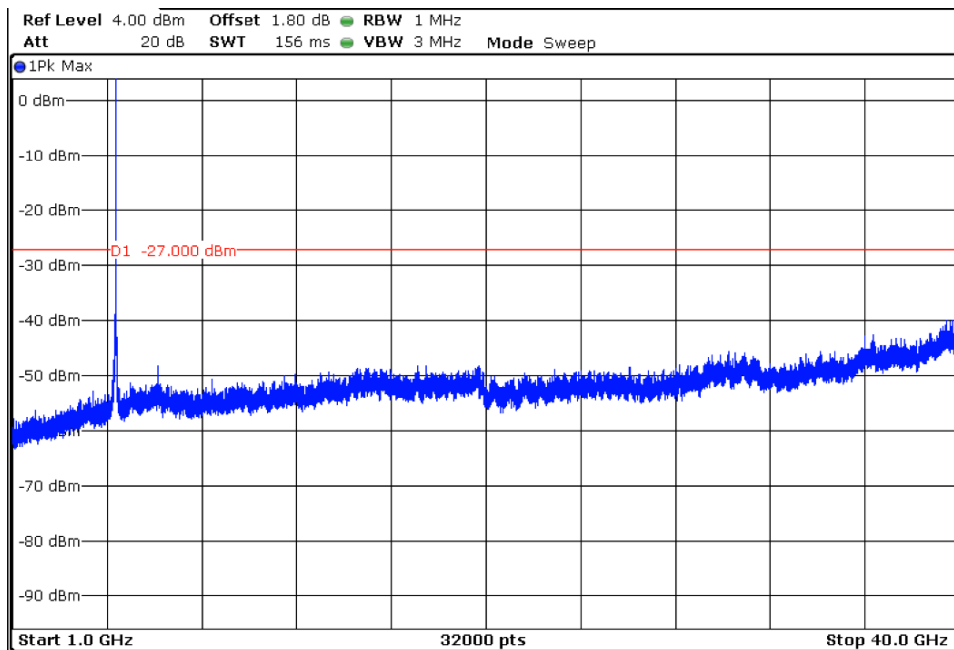
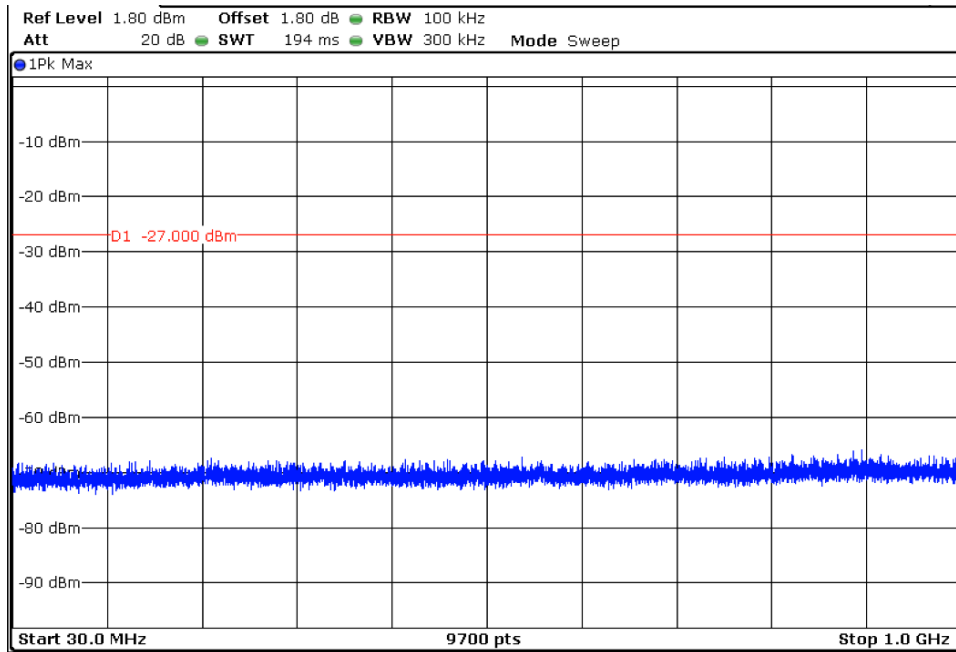
No spurious signal was detected at 20dB below the limit or above for the channel.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Mid channel

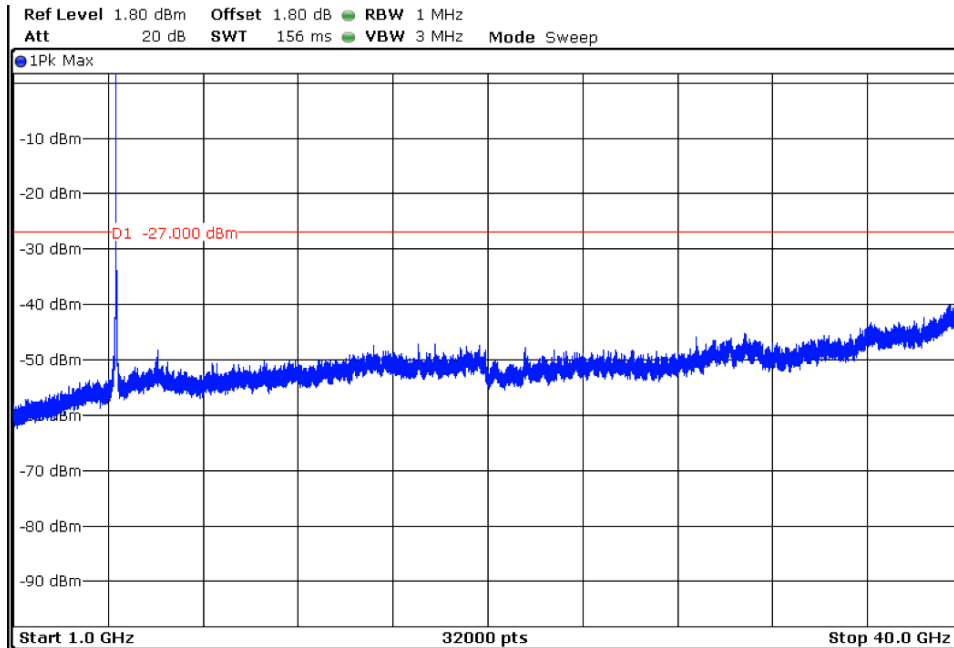
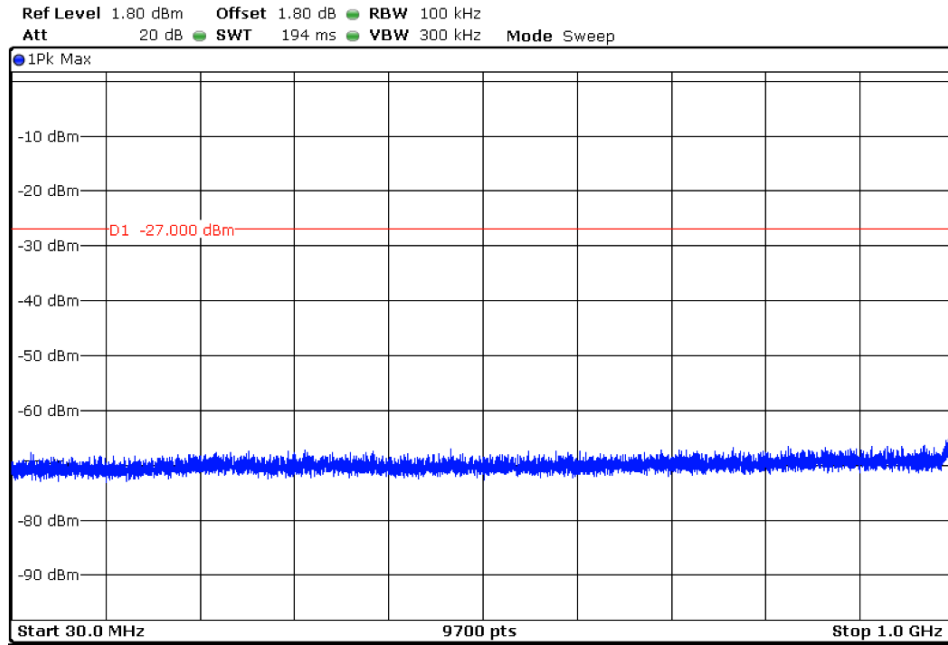
No spurious signal was detected at 20dB below the limit or above for the channel.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

High channel

No spurious signal was detected at 20dB below the limit or above for the channel.

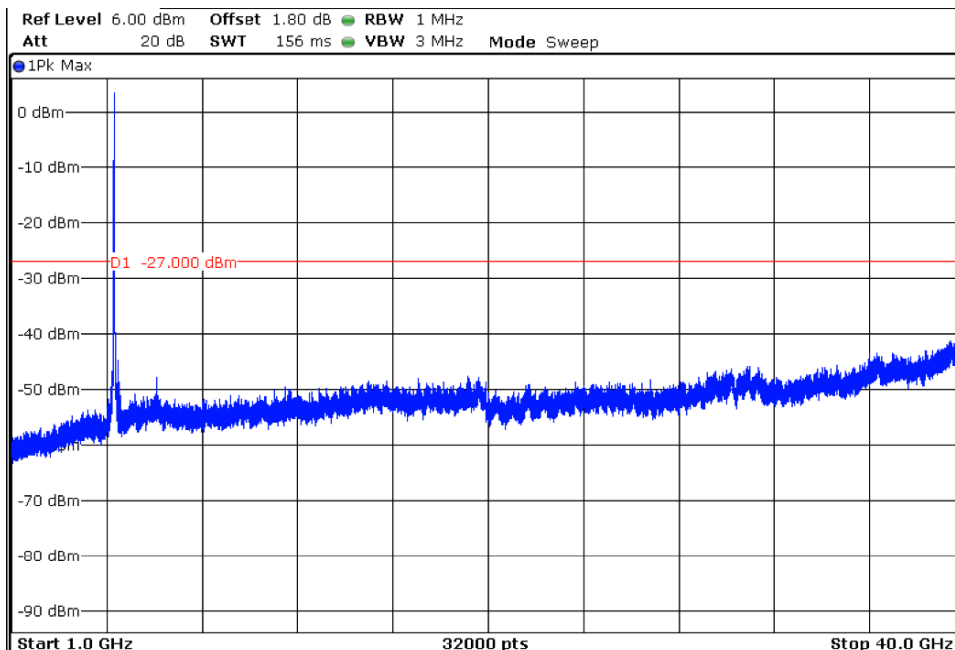
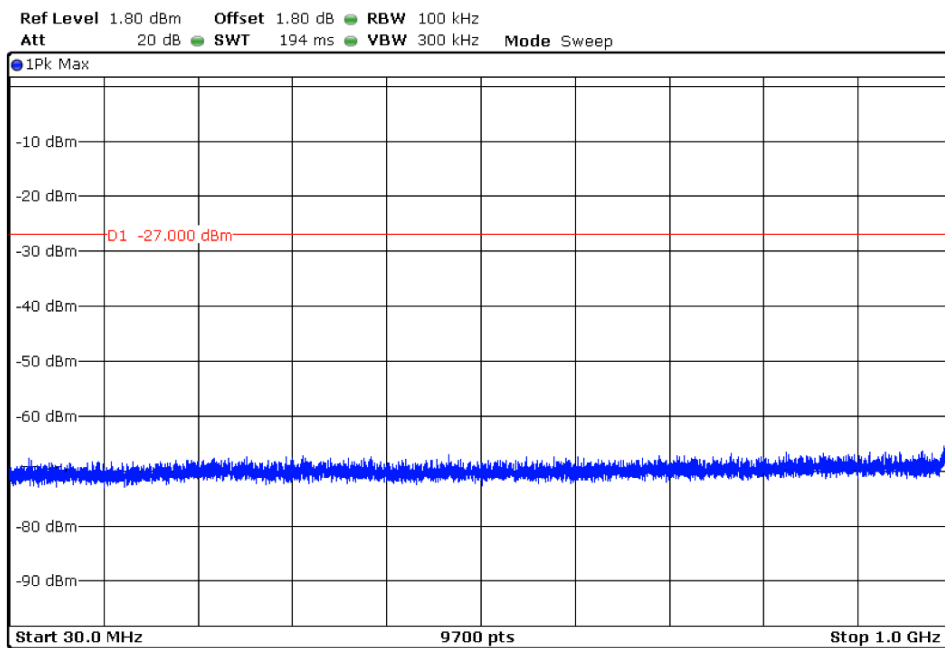


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

Low channel

No spurious signal was detected at 20dB below the limit or above for the channel.

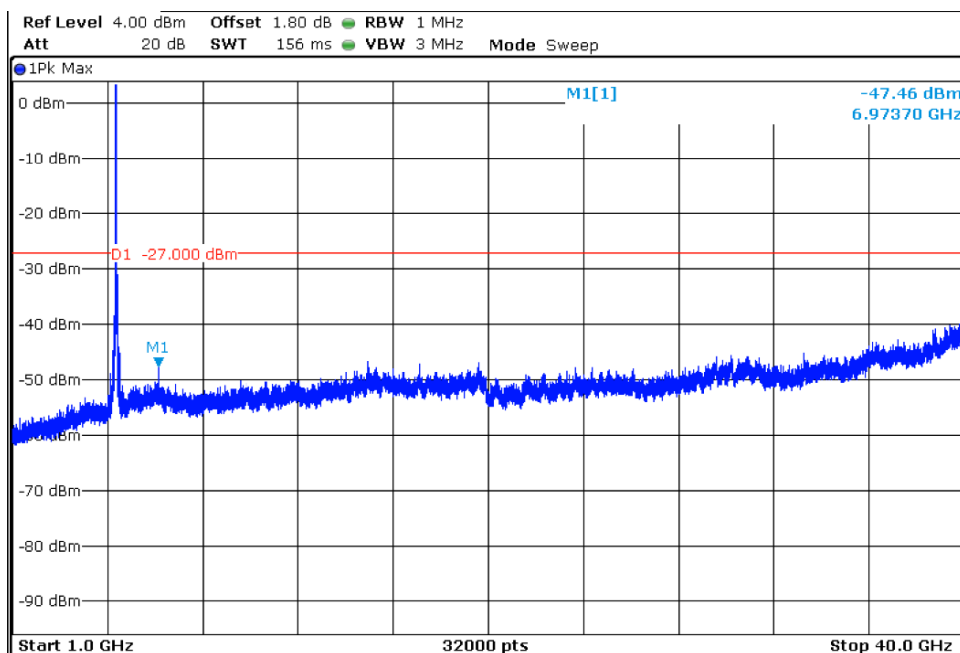
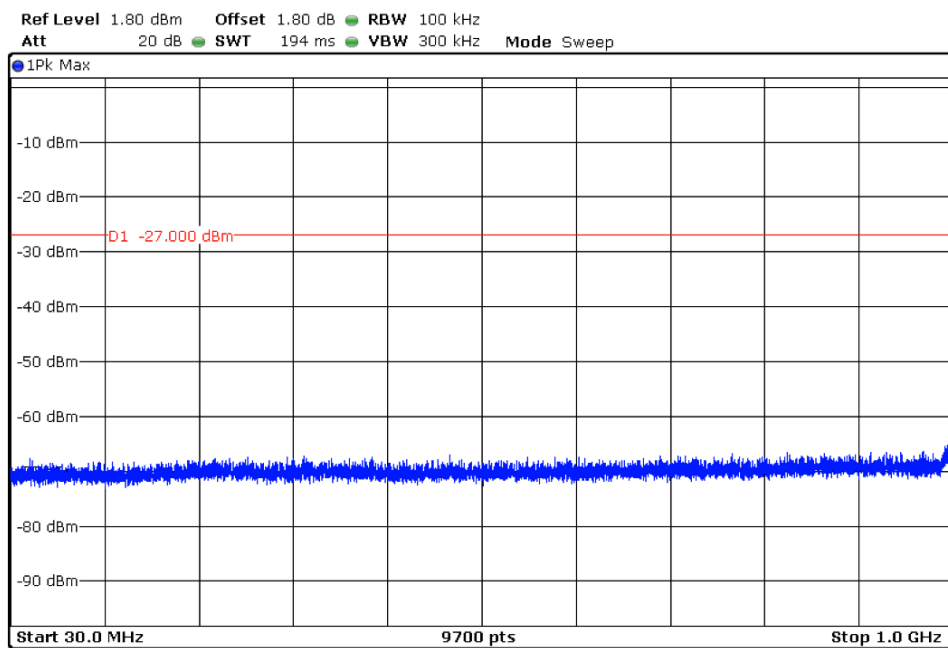


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

High channel

No spurious signal was detected at 20dB below the limit or above for the channel.

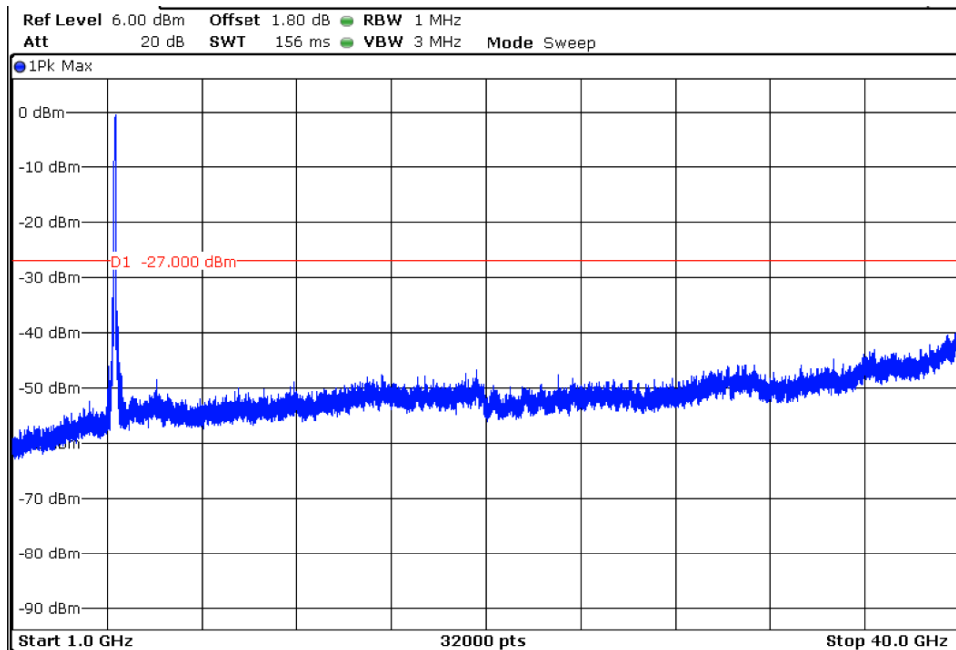
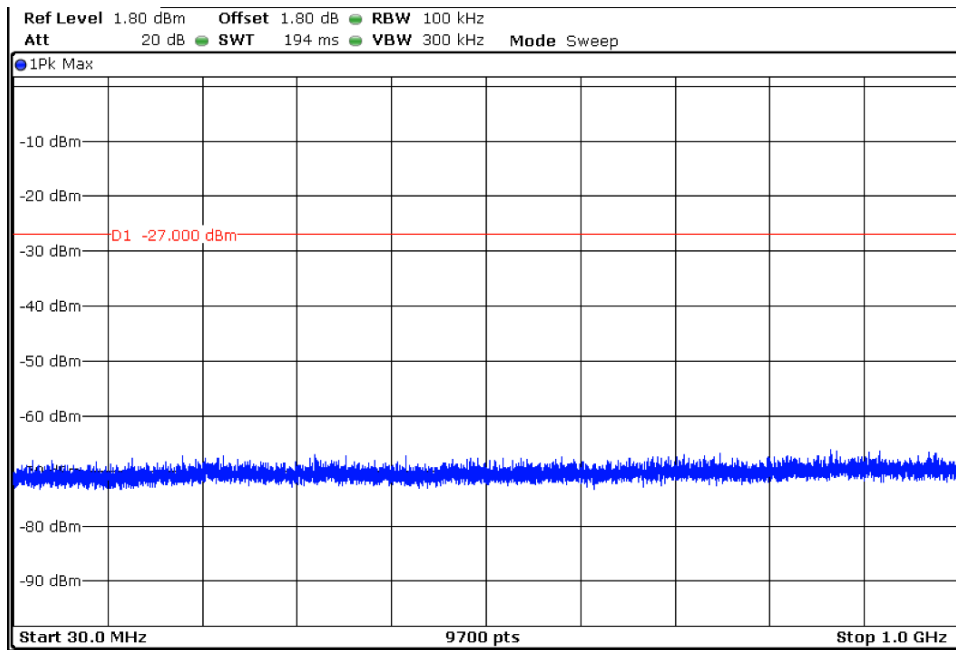


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 80 MHz

Low channel

No spurious signal was detected at 20dB below the limit or above for the channel.



TEST B.6: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b) (1)(6)(7) and RSS-247 6.2.1.2

LIMITS

For transmitters operating in the 5.15 – 5.25 GHz band: all emissions outside of the 5.15 – 5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.23 dBμ V/m at 3m distance).

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 at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

For radiated emissions in the range 1-40 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.

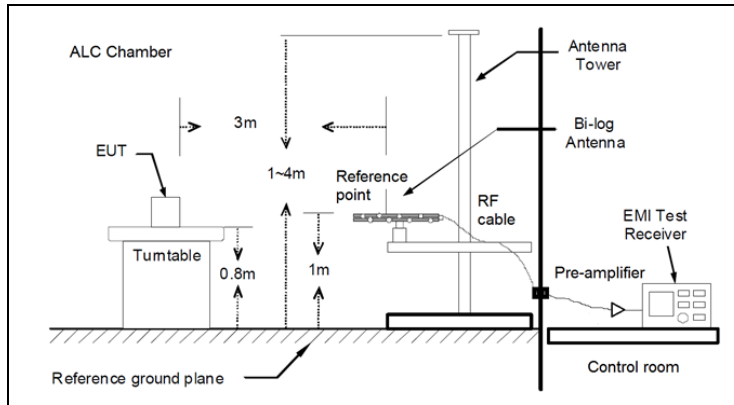
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

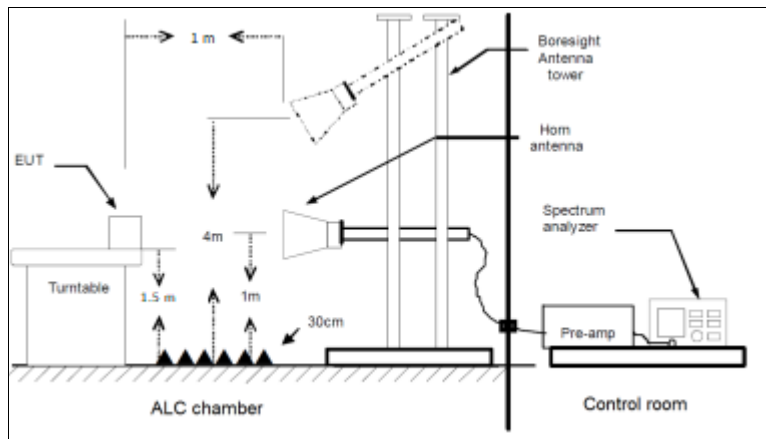
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT. See worst operation mode selected for all the ranges (a mode 20 MHz and Mid channel) as a worst case.

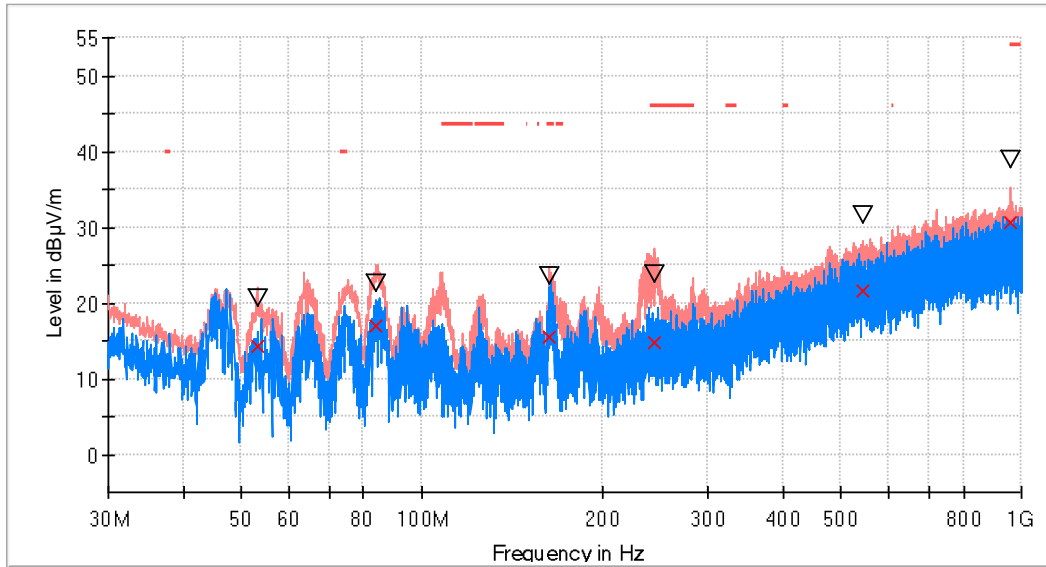
Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range and the restricted band 4.5 – 5.15 GHz.

TEST RESULTS (Cont.)	
FREQUENCY RANGE	30 MHz – 1 GHz

Mid Channel

RF_FCC_15.407_E Field_30MHz_1GHz

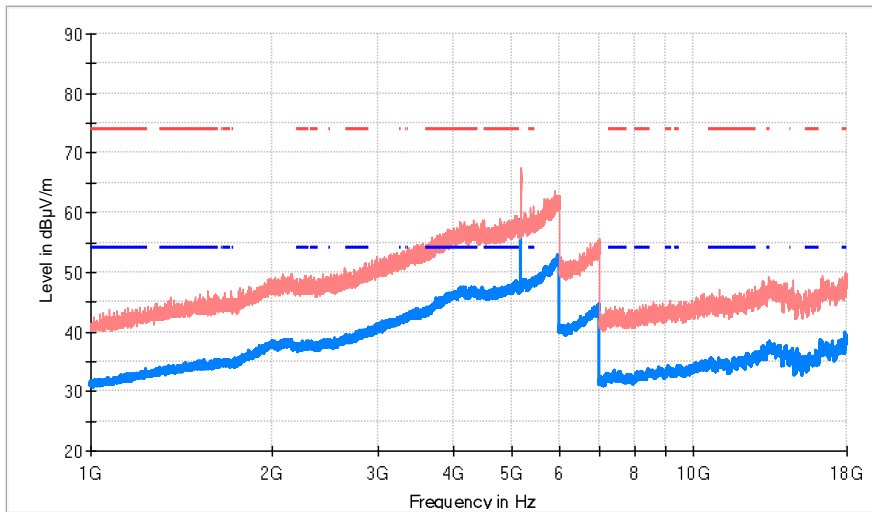


- PK+_MAXH
- PK+_CLRWR
- TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit
- ▽ MaxPeak-PK+ (Single)
- × QuasiPeak-QPK (Single)

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol
53.086000	20.7	14.2	V
83.980500	22.6	17.0	V
162.938500	23.5	15.5	V
244.418500	23.9	14.7	H
544.003000	31.7	21.7	H
960.036000	39.0	30.7	H

TEST RESULTS (Cont.)	
FREQUENCY RANGE	1 GHz – 18 GHz

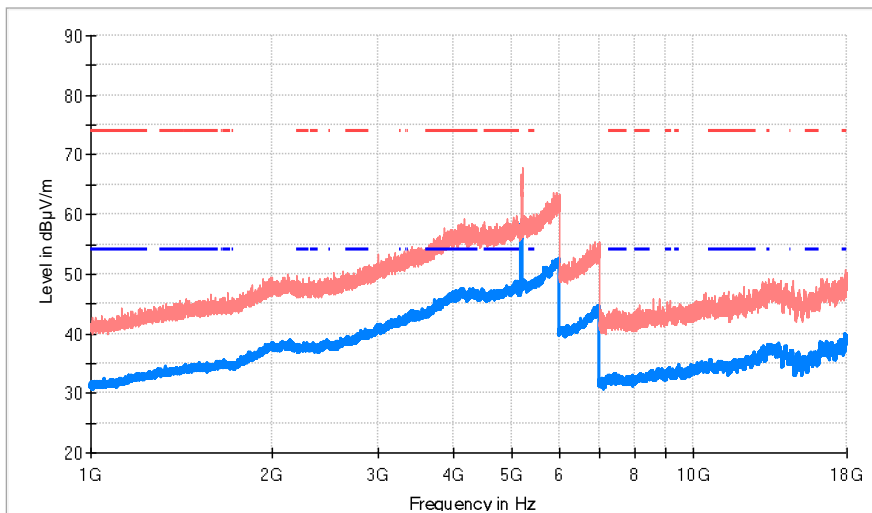
Low Channel



- 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	Comment
5179.318182	66.6	58.5	V	Fundamental

Middle Channel

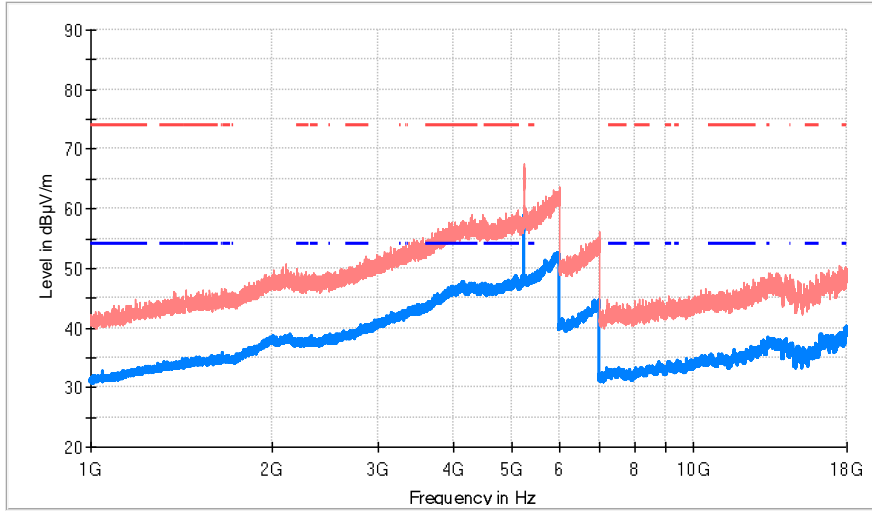


- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5199.545455	64.9	58.0	V	Fundamental

TEST RESULTS (Cont.)

High Channel



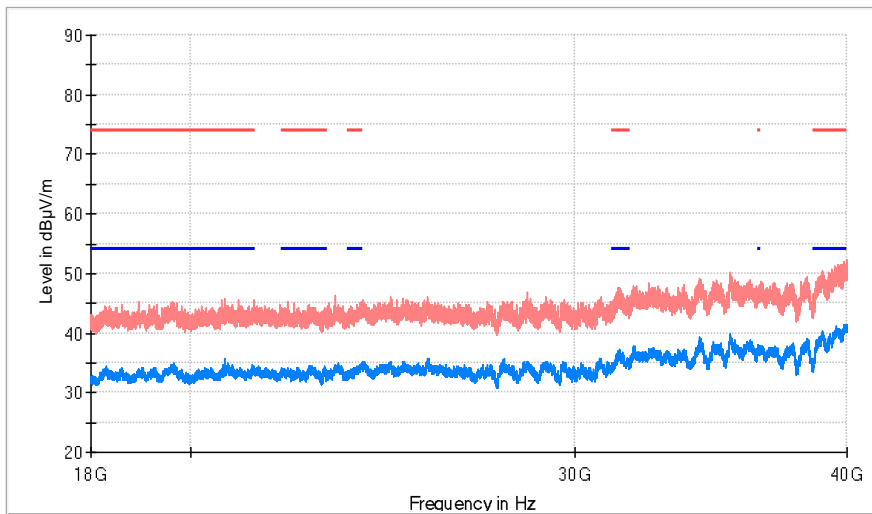
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5239.090909	65.5	58.6	V	Fundamental

FREQUENCY RANGE

18 GHz – 40 GHz

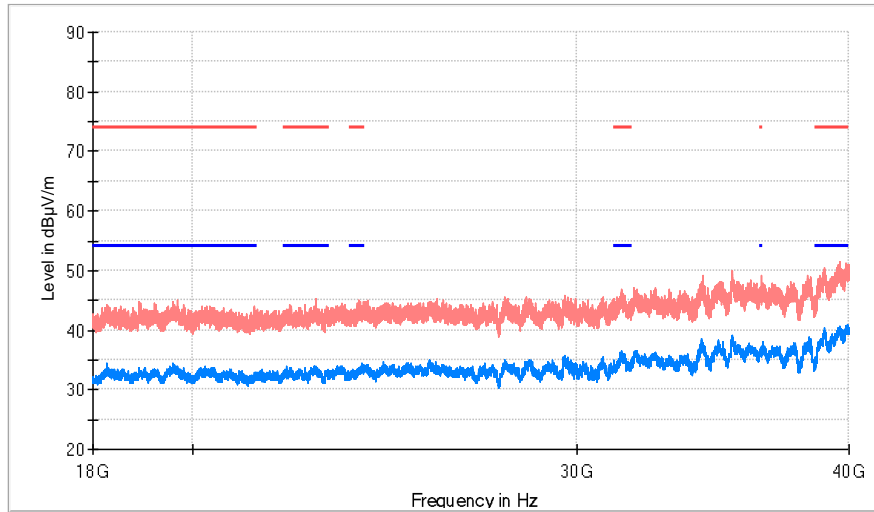
Low Channel



- 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

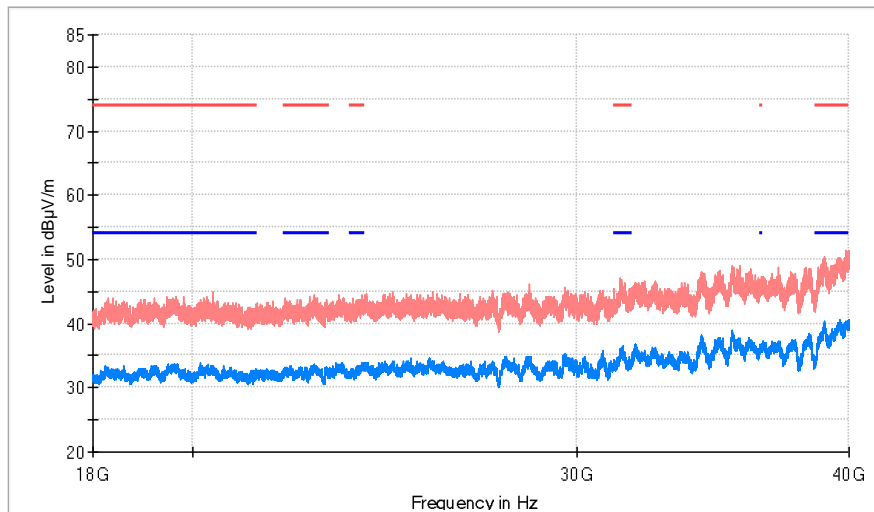
TEST RESULTS (Cont.)

Middle Channel



- AVG_ MAXH
- PK+ _MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

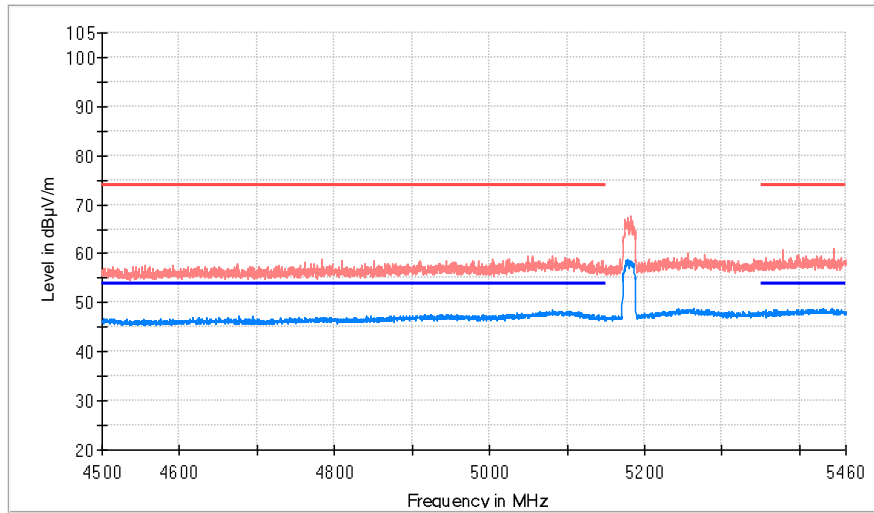
High Channel



- AVG_ MAXH
- PK+ _MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

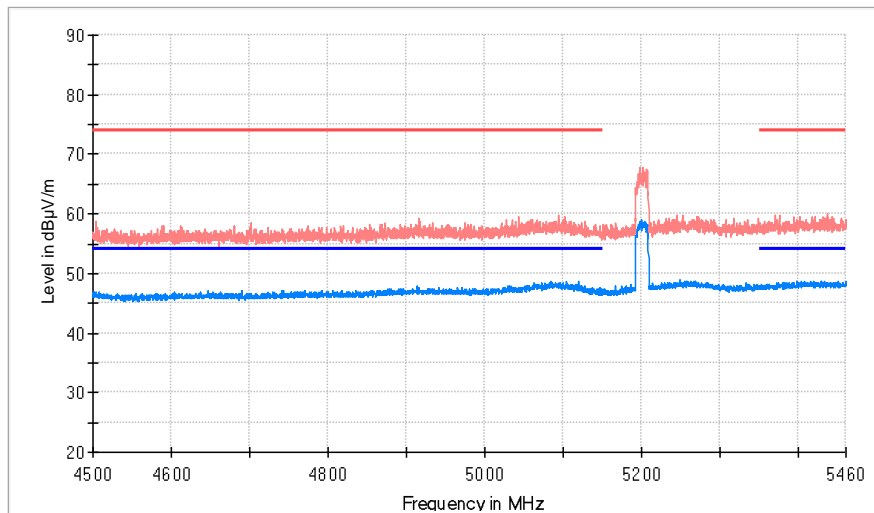
RESTRICTED BANDS **4.5 GHz – 5.15 GHz**

Low Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Mid Channel

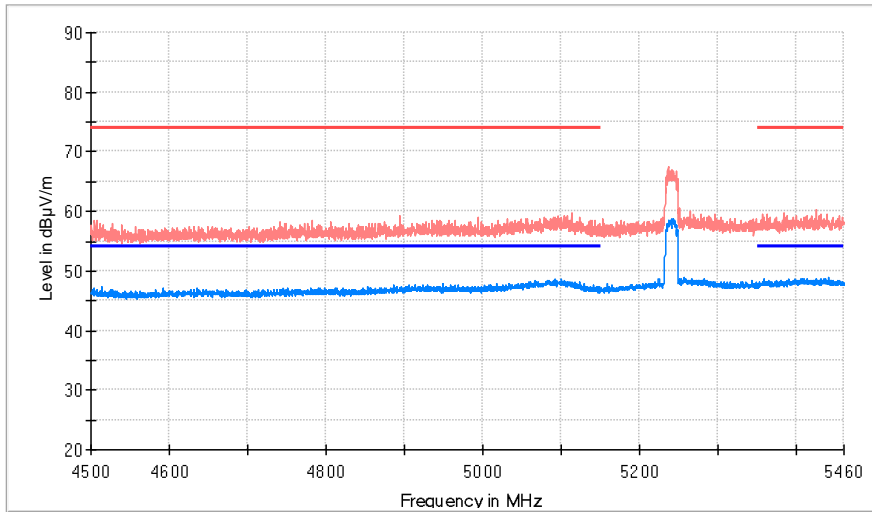


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

RESTRICTED BANDS

4.5 GHz – 5.15 GHz

High Channel



- 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

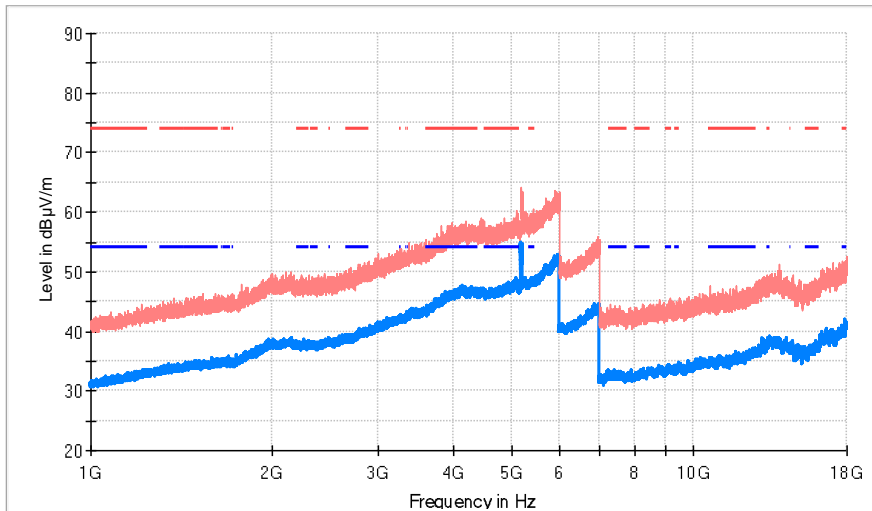
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (ac mode 40 MHz)
TEST RESULTS:	PASS

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range and the restricted band 4.5 – 5.15 GHz.

FREQUENCY RANGE	1 GHz – 18 GHz
------------------------	-----------------------

Low Channel



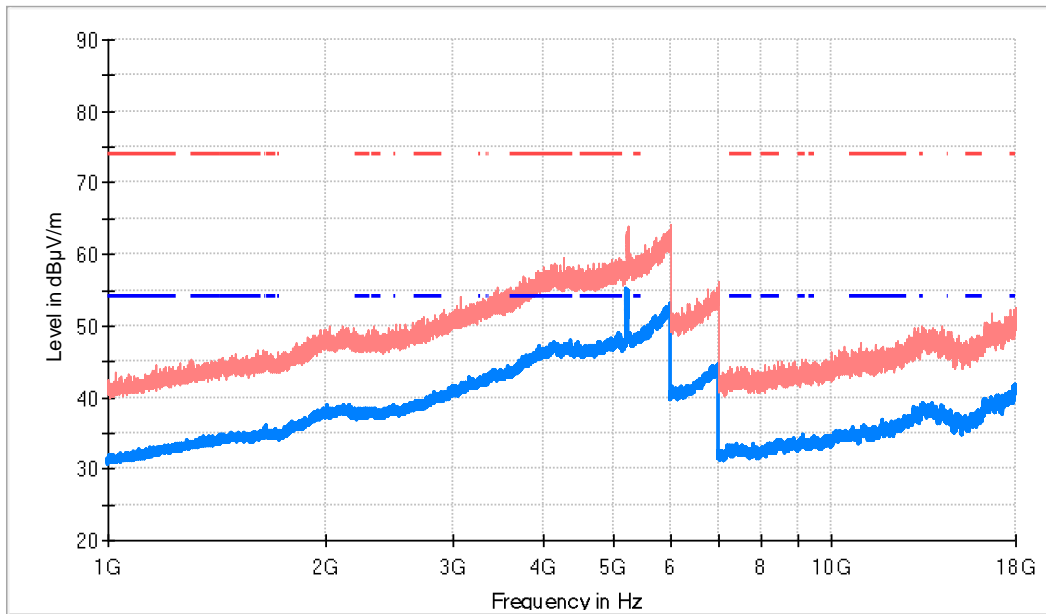
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5189.772727	60.6	51.6	V	Fundamental

TEST RESULTS (Cont.)

High Channel



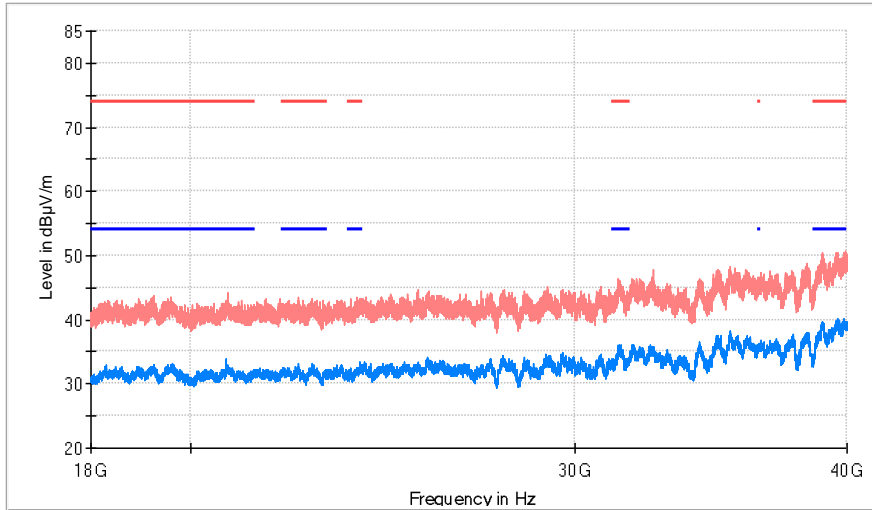
- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
5229.090909	62.2	54.1	V	Fundamental

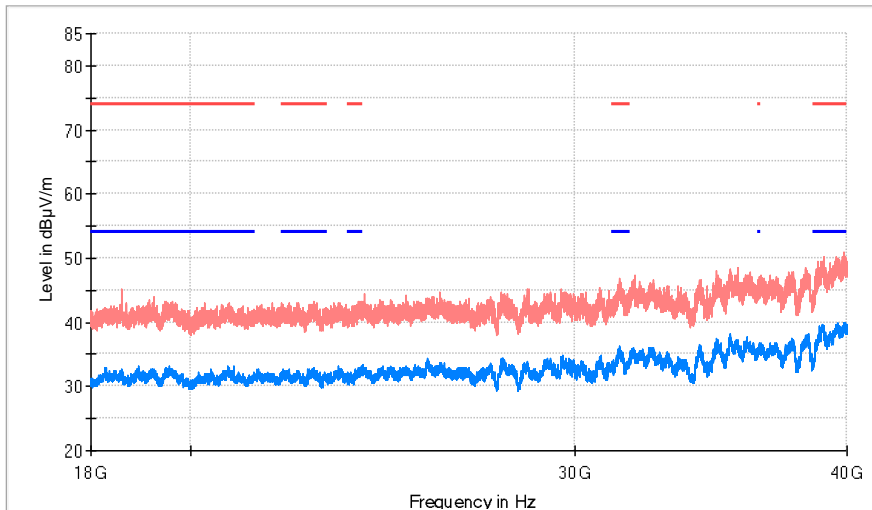
TEST RESULTS (Cont.)	
FREQUENCY RANGE	18 GHz – 40 GHz

Low Channel



- 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

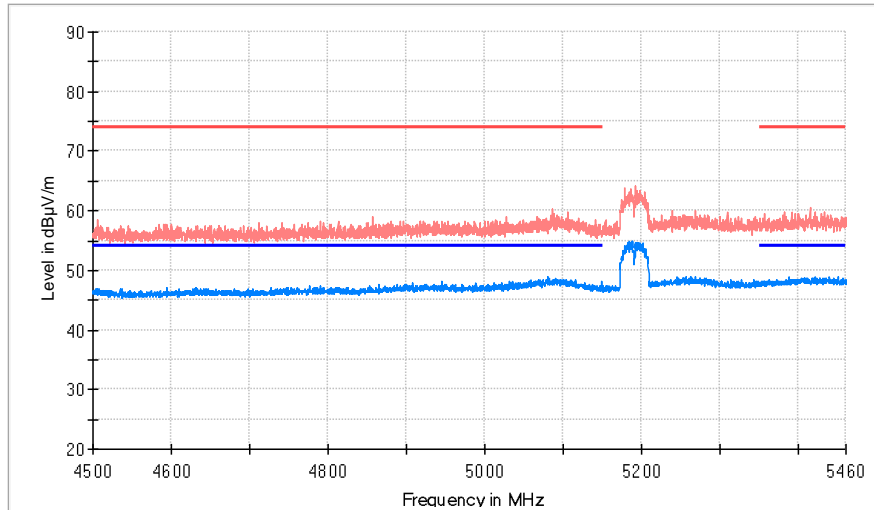
High Channel



- 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

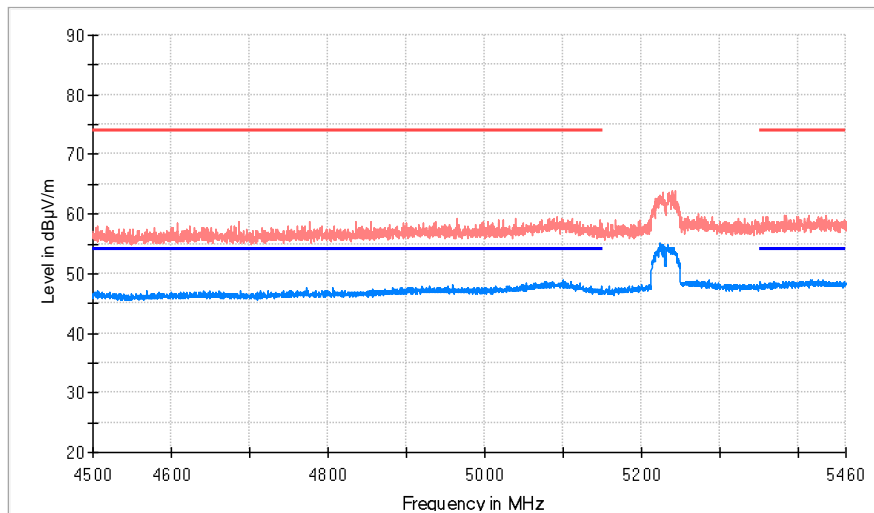
RESTRICTED BANDS **4.5 GHz – 5.15 GHz**

Low Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

High Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

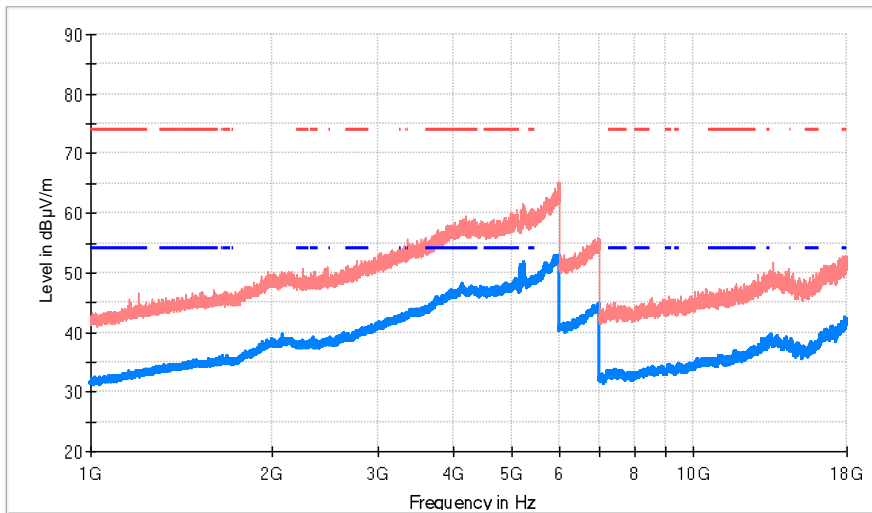
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range and the restricted band 4.5 – 5.15 GHz.

TEST RESULTS (Cont.)	ac mode (80 MHz)
FREQUENCY RANGE	1 GHz – 18 GHz

Low Channel



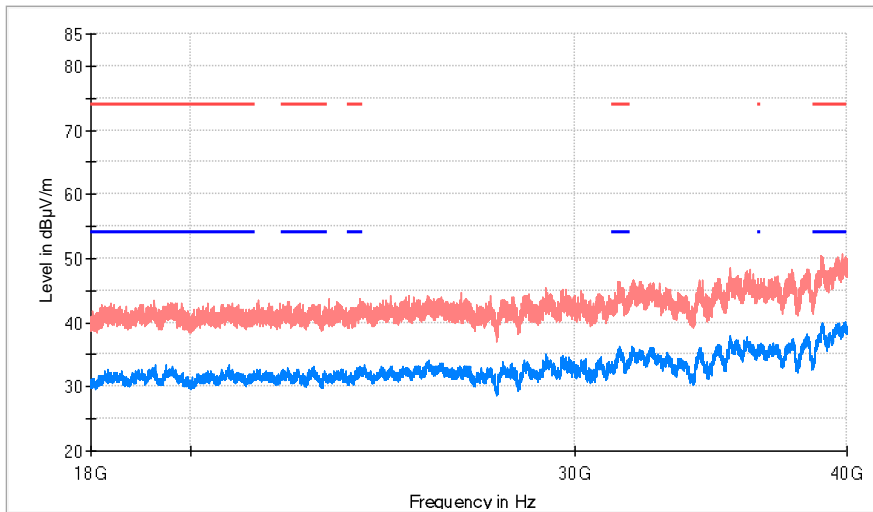
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
5212.954546	59.7	50.6	V	Fundamental
10166.181818	45.2	35.6	V	

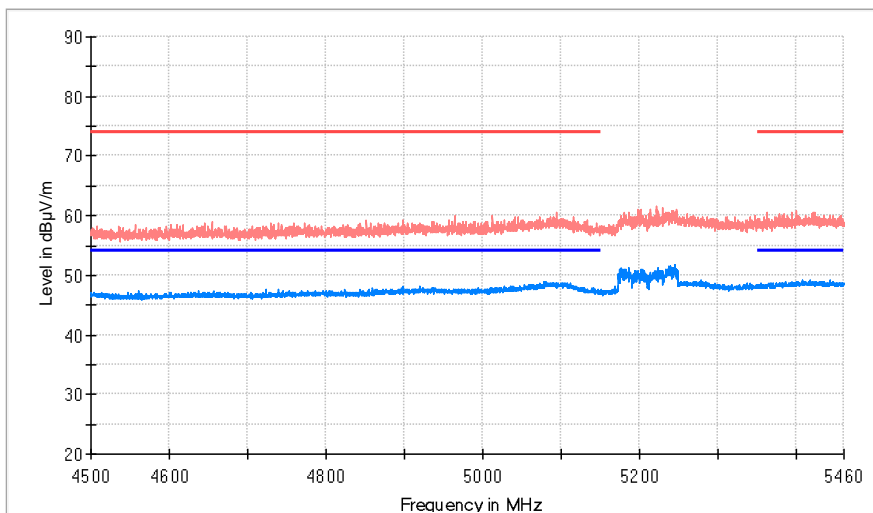
TEST RESULTS (Cont.)	
FREQUENCY RANGE	18 GHz – 40 GHz

Low Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

RESTRICTED BANDS	4.5 GHz – 5.15 GHz
-------------------------	---------------------------



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Appendix C: Test results 5.25 GHz – 5.35 GHz Band

Appendix C Content

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DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (a mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests (20 MHz):</u> Lowest channel: 5260 MHz Middle channel: 5280 MHz Highest channel: 5320 MHz
TC#02 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests (20 MHz):</u> Lowest channel: 5260 MHz Middle channel: 5280 MHz Highest channel: 5320 MHz <u>Test Frequencies for Conducted/Radiated tests (40 MHz):</u> Lowest channel: 5270 MHz Highest channel: 5310 MHz
TC#03 ⁽¹⁾ (ac mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests (20 MHz):</u> Lowest channel: 5260 MHz Middle channel: 5280 MHz Highest channel: 5320 MHz <u>Test Frequencies for Conducted/Radiated tests (40 MHz):</u> Lowest channel: 5270 MHz Highest channel: 5310 MHz <u>Test Frequencies for Radiated tests: (80 MHz)</u> Middle channel: 5290 MHz

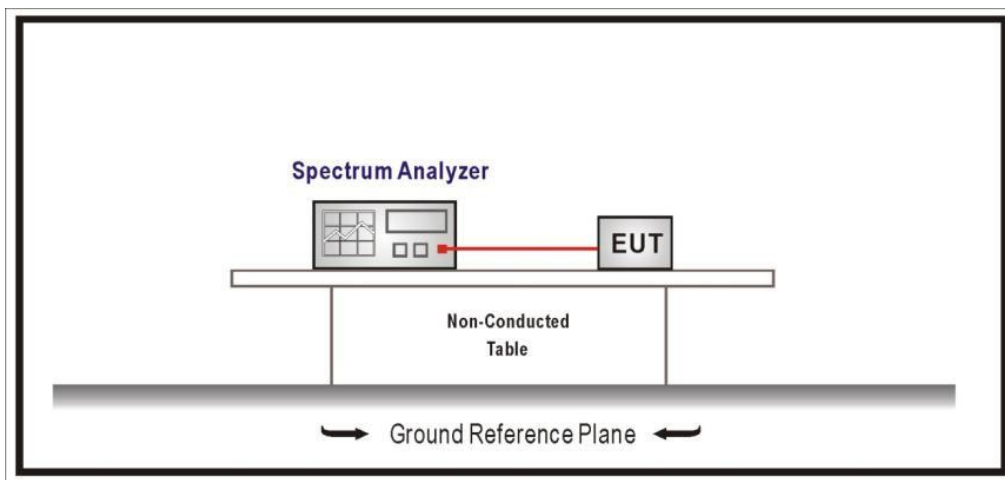
Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20/40 and 802.11ac20/40/80 a preliminary scan was performed to determine the worst case. The data rates of 6Mb/s for 802.11a, MCS 0 for 802.11n, and MCS8 for 802.11ac were selected based on preliminary testing that identified those rates corresponding to the worst cases.

TEST C.1: 26DB EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart C §15.403 and RSS-247
	Test standard:	Part 15 Subpart C §15.403 and RSS-247 6.2.1

No requirements requested

TEST SETUP:



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

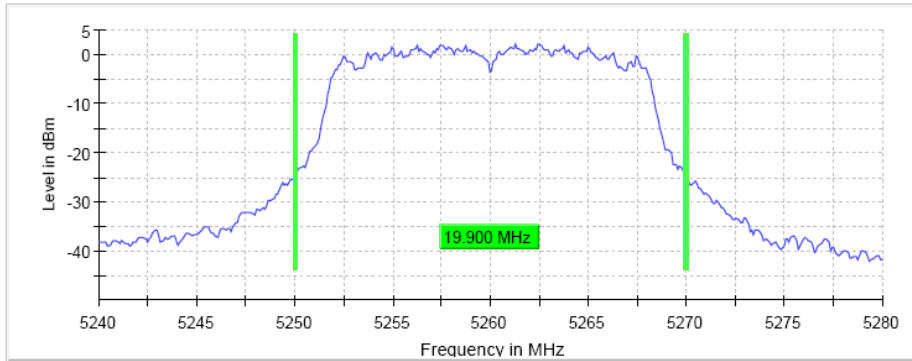
Bandwidth: 20 MHz

	Lowest frequency	Middle frequency	Highest frequency
	5260 MHz	5280 MHz	5320 MHz
26dB Bandwidth (MHz)	19.9	19.9	19.8
Occupied bandwidth (MHz)	16.3	16.3	16.3
Measurement uncertainty (kHz)	<± 8.33		

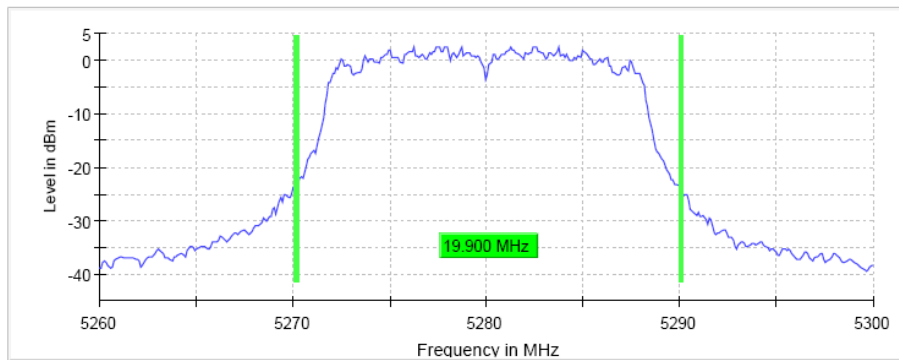
TEST RESULTS (Cont.):

26 dB BANDWIDTH

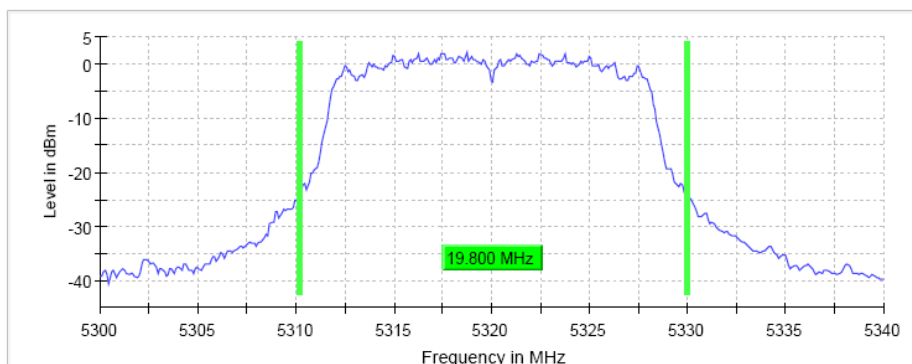
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)

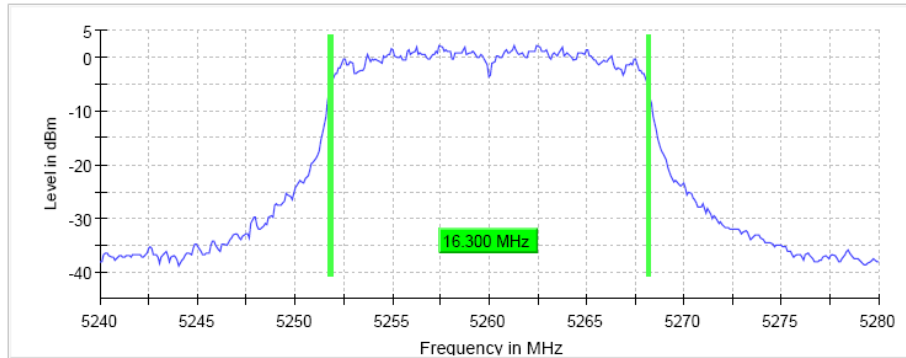
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.24000 GHz	5.26000 GHz	5.30000 GHz
Stop Frequency	5.28000 GHz	5.30000 GHz	5.34000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 μ s	28.443 μ s	28.443 μ s
Reference Level	20.000 dBm	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	30 / max. 150	35 / max. 150	50 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.03 dB	0.04 dB	0.00 dB

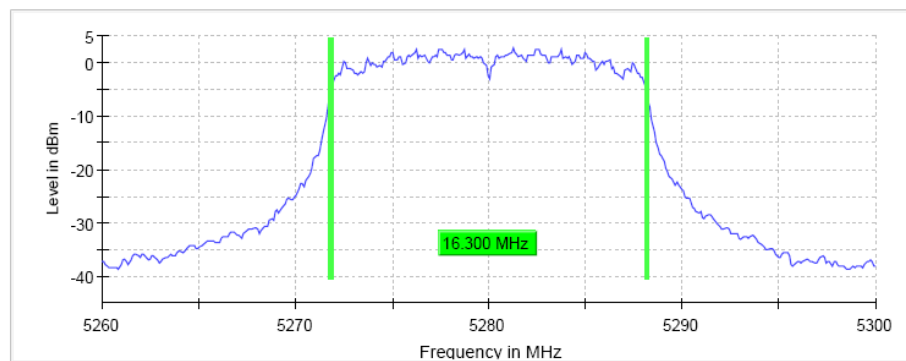
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

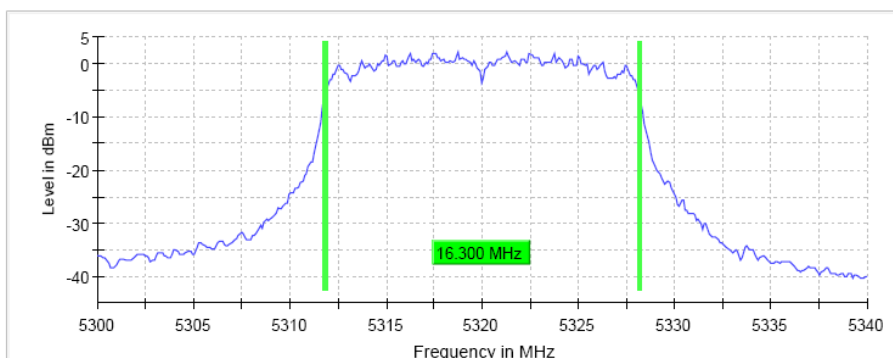
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.24000 GHz	5.26000 GHz	5.30000 GHz
	Stop Frequency	5.28000 GHz	5.30000 GHz	5.34000 GHz
	Span	40.000 MHz	40.000 MHz	40.000 MHz
	RBW	200.000 kHz	200.000 kHz	200.000 kHz
	VBW	1.000 MHz	1.000 MHz	1.000 MHz
	SweepPoints	400	400	400
	Sweeptime	28.477 μ s	28.477 μ s	28.477 μ s
	Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
	Attenuation	20.000 dB	20.000 dB	20.000 dB
	Detector	Max Peak	Max Peak	Max Peak
	SweepCount	200	200	200
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	SweepType	FFT	FFT	FFT
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	51 / max. 150	71 / max. 150	47 / max. 150
	Stable	5 / 5	5 / 5	5 / 5
	Max Stable Difference	0.00 dB	0.29 dB	0.04 dB
TESTED SAMPLES:	S/01			
TESTED CONDITIONS MODES:	TC#02 (n Mode)			
TEST RESULTS:	PASS			
Bandwidth: 20 MHz				
	Lowest frequency	Middle frequency	Highest frequency	
	5260 MHz	5280 MHz	5320 MHz	
26dB bandwidth (MHz)	20.2	20.0	20.3	
Occupied bandwidth (MHz)	17.4	17.3	17.3	
Measurement uncertainty (kHz)	$<\pm 8.33$			

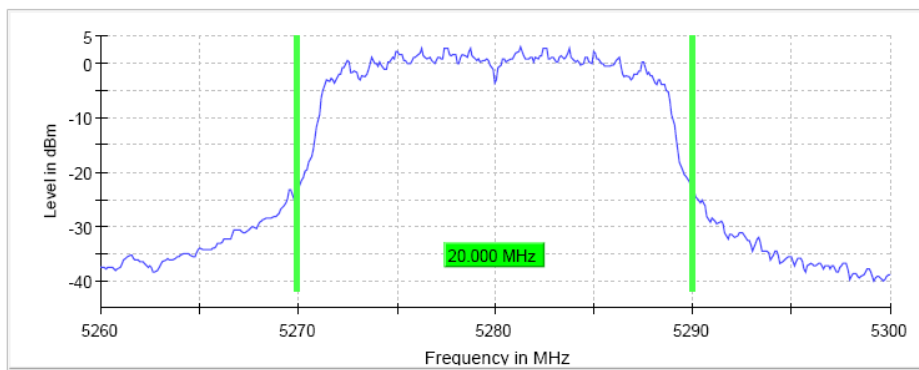
TEST RESULTS (Cont.):

26 dB BANDWIDTH

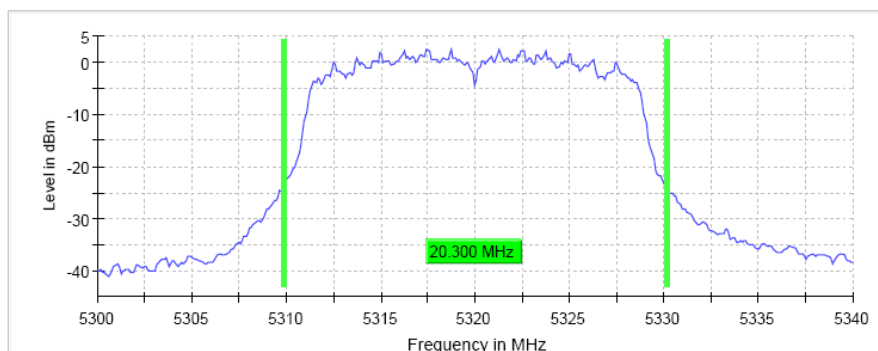
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)

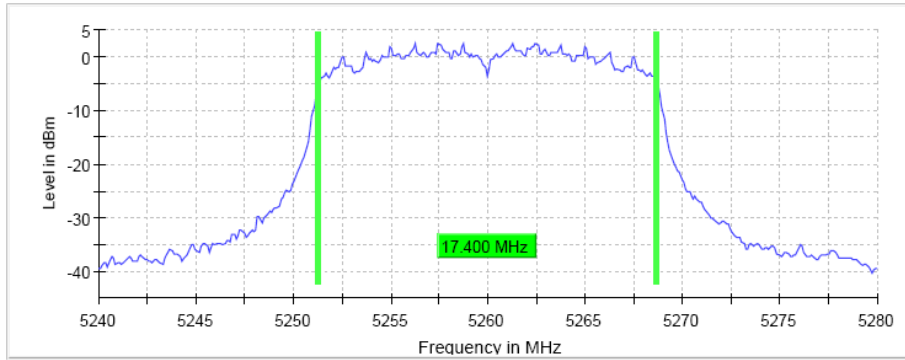
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.24000 GHz	5.26000 GHz	5.30000 GHz
Stop Frequency	5.28000 GHz	5.30000 GHz	5.34000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 µs	28.443 µs	28.443 µs
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
SweepType	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	40 / max. 150	48 / max. 150	55 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB	0.00 dB

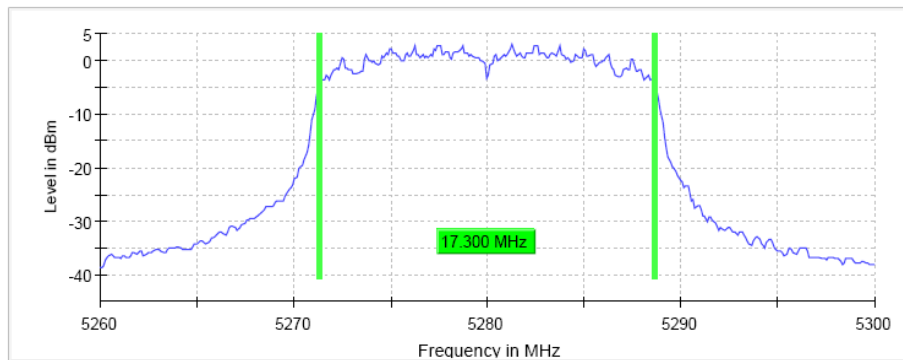
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

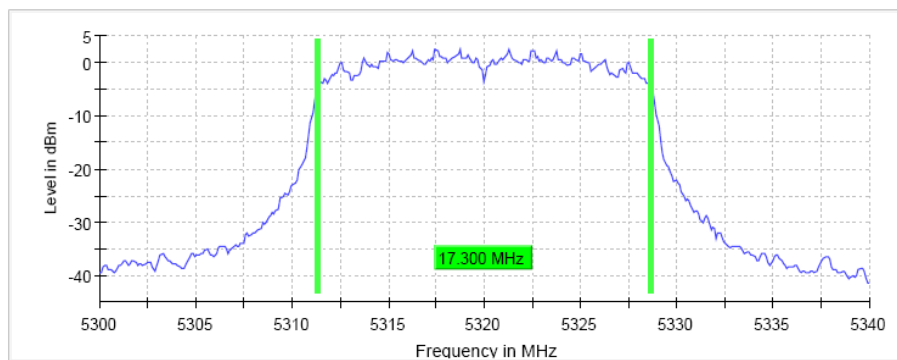
Lowest Channel



Middle Channel



Highest Channel

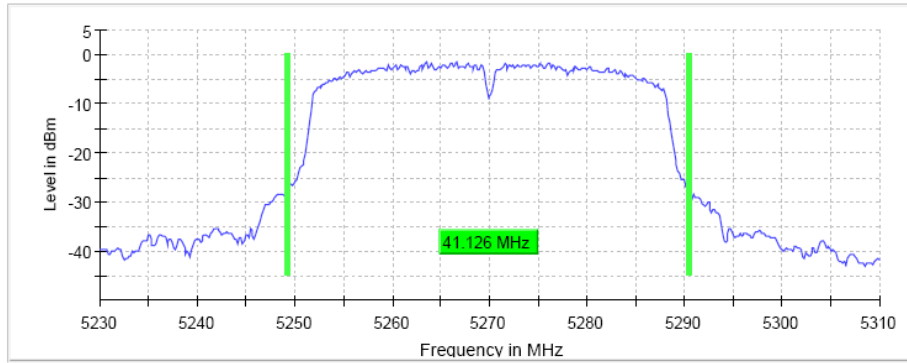


TEST RESULTS (Cont.)	Measurement			
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.24000 GHz	5.26000 GHz	5.30000 GHz
	Stop Frequency	5.28000 GHz	5.30000 GHz	5.34000 GHz
	Span	40.000 MHz	40.000 MHz	40.000 MHz
	RBW	200.000 kHz	200.000 kHz	200.000 kHz
	VBW	1.000 MHz	1.000 MHz	1.000 MHz
	SweepPoints	400	400	400
	Sweeptime	28.477 μ s	28.477 μ s	28.477 μ s
	Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
	Attenuation	20.000 dB	20.000 dB	20.000 dB
	Detector	Max Peak	Max Peak	Max Peak
	SweepCount	200	200	200
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	Sweeptype	FFT	FFT	FFT
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	49 / max. 150	51 / max. 150	53 / max. 150
	Stable	5 / 5	5 / 5	5 / 5
	Max Stable Difference	0.02 dB	0.00 dB	0.00 dB
TEST RESULTS (Cont.)	N Mode			
Bandwidth: 40 MHz				
		Lowest frequency 5270 MHz	Highest frequency 5310 MHz	
	26dB bandwidth (MHz)	41.126	41.426	
	Occupied bandwidth (MHz)	36.25	36.25	
	Measurement uncertainty (kHz)	$<\pm 8.33$		

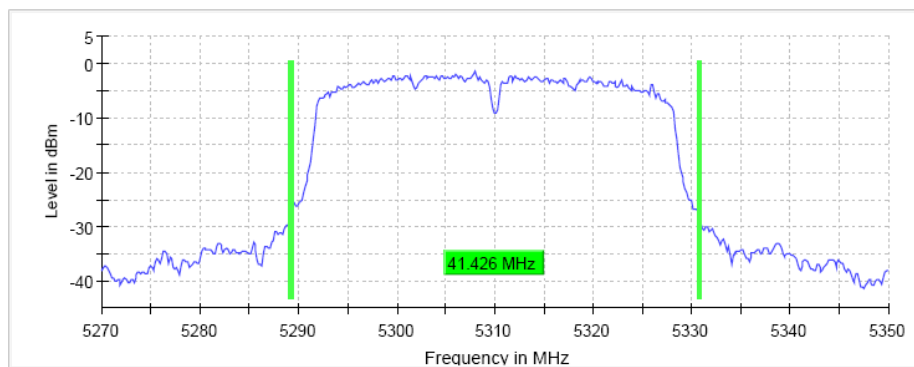
TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



Highest Channel



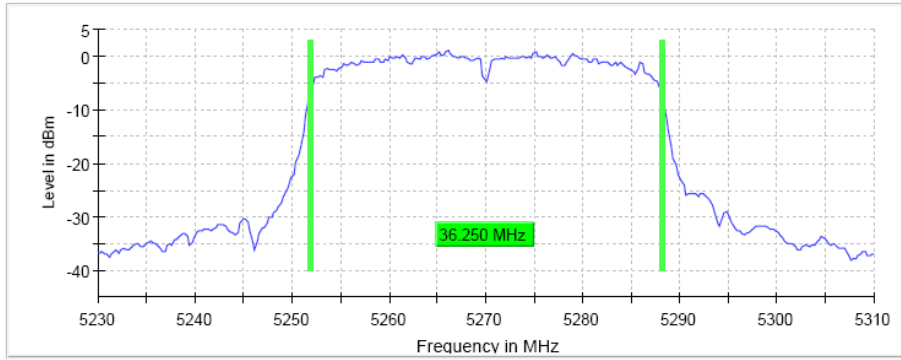
TEST RESULTS (Cont.)

Measurement

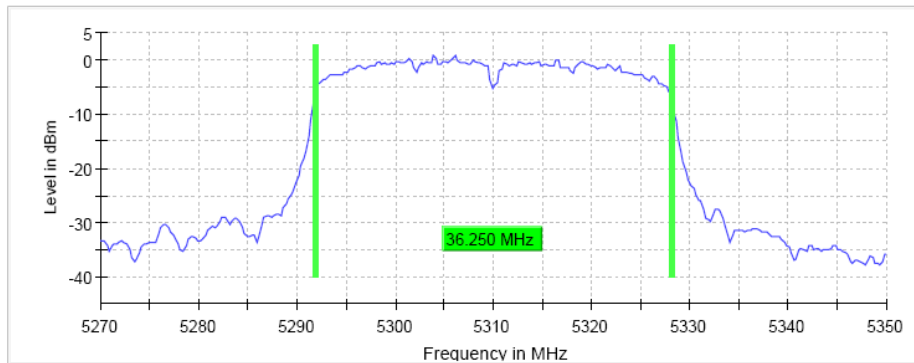
Setting	Instrument Value	Instrument Value
Start Frequency	5.23000 GHz	5.27000 GHz
Stop Frequency	5.31000 GHz	5.35000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 KHz
VBW	1.000 MHz	1.000 MHz
SweepPoints	267	267
Sweeptime	31.603 us	31.603 us
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	FFT
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	58 / max. 150	79 / max. 150
Stable	5 / 5	5 / 5
Max Stable	0.05 dB	0.00 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
------------------------------	---------------------------

Lowest Channel



Highest Channel

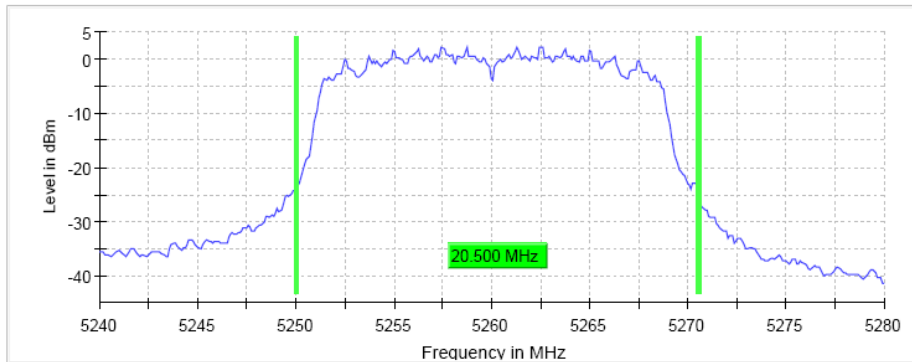


TEST RESULTS (Cont.)			
Measurement			
	Setting	Instrument Value	Instrument Value
	Start Frequency	5.23000 GHz	5.27000 GHz
	Stop Frequency	5.31000 GHz	5.35000 GHz
	Span	80.000 MHz	80.000 MHz
	RBW	500.000 kHz	500.000 kHz
	VBW	2.000 MHz	2.000 MHz
	SweepPoints	320	320
	Sweeptime	18.906 us	18.906 us
	Reference Level	0.000 dBm	0.000 dBm
	Attenuation	20.000 dB	20.000 dB
	Detector	Max Peak	Max Peak
	SweepCount	200	200
	Filter	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold
	SweepType	FFT	FFT
	Preamp	off	off
	Stablemode	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB
	Run	67 / max. 150	72 / max. 150
	Stable	5 / 5	5 / 5
	Max Stable	0.24 dB	0.07 dB
TESTED SAMPLES:	S/01		
TESTED CONDITIONS MODES:	TC#03 (ac mode)		
TEST RESULTS:	PASS		
Bandwidth: 20 MHz			
	Lowest frequency	Middle frequency	Highest frequency
	5260 MHz	5280 MHz	5320 MHz
26db bandwidth (MHz)	20.5	20.3	20.6
Occupied bandwidth (MHz)	17.4	17.3	17.3
Measurement uncertainty (kHz)	<± 8.33		

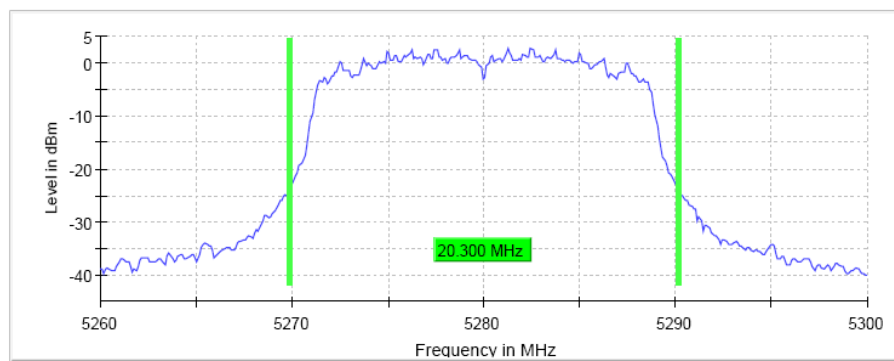
TEST RESULTS (Cont.):

26 dB BANDWIDTH

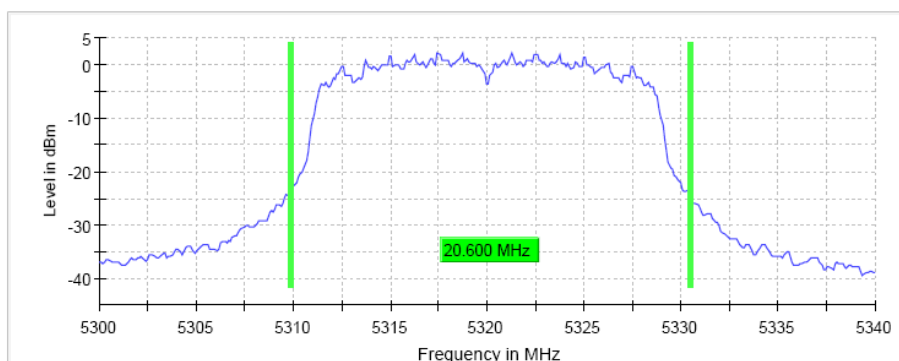
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)

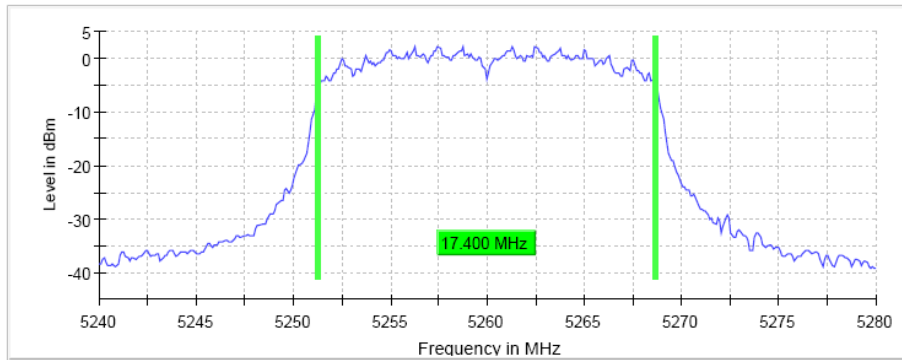
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.24000 GHz	5.26000 GHz	5.30000 GHz
Stop Frequency	5.28000 GHz	5.30000 GHz	5.34000 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 µs	28.443 µs	28.443 µs
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	43 / max. 150	30 / max. 150	67 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB	0.24 dB

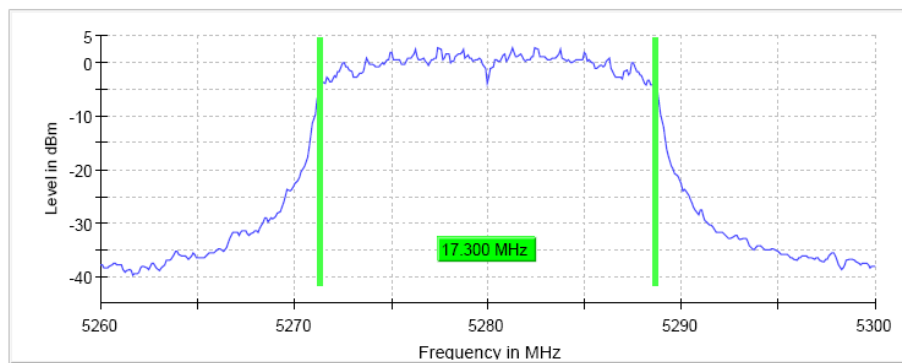
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

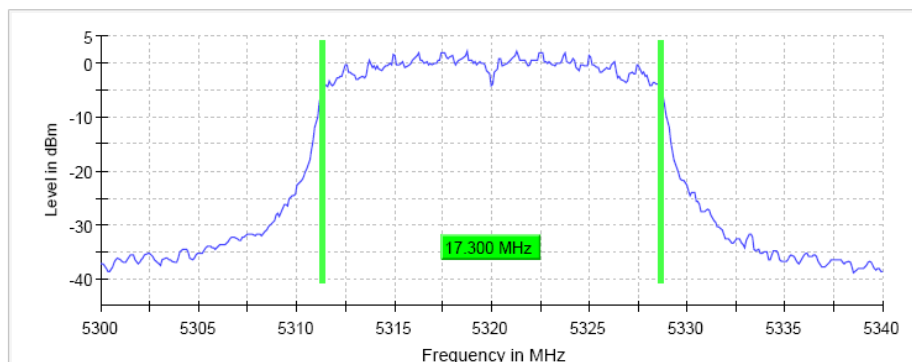
Lowest Channel



Middle Channel



Highest Channel

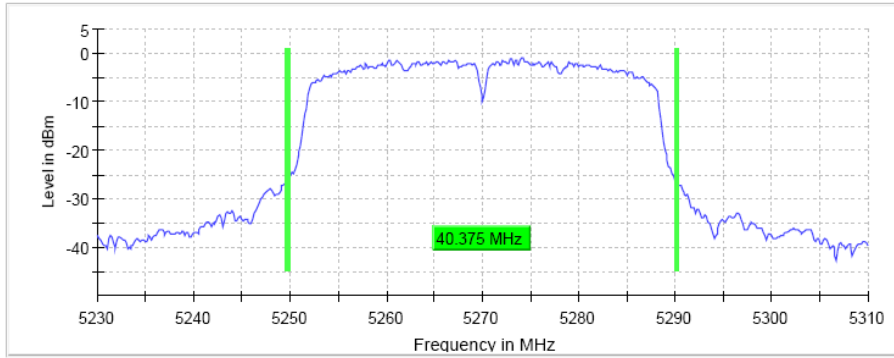


TEST RESULTS (Cont.)				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.24000 GHz	5.26000 GHz	5.30000 GHz
	Stop Frequency	5.28000 GHz	5.30000 GHz	5.34000 GHz
	Span	40.000 MHz	40.000 MHz	40.000 MHz
	RBW	200.000 kHz	200.000 kHz	200.000 kHz
	VBW	1.000 MHz	1.000 MHz	1.000 MHz
	SweepPoints	400	400	400
	SweepTime	28.477 μ s	28.477 μ s	28.477 μ s
	Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
	Attenuation	20.000 dB	20.000 dB	20.000 dB
	Detector	Max Peak	Max Peak	Max Peak
	SweepCount	200	200	200
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	Sweeptype	FFT	FFT	FFT
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	76 / max. 150	57 / max. 150	48 / max. 150
	Stable	5 / 5	5 / 5	5 / 5
	Max Stable Difference	0.07 dB	0.26 dB	0.09 dB
TEST RESULTS	ac mode (40 MHz)			
		Lowest frequency	Highest frequency	
		5270 MHz	5310 MHz	
	26dB bandwidth (MHz)	40.375	42.026	
	Occupied bandwidth (MHz)	36.25	36.25	
	Measurement uncertainty (kHz)	$<\pm 8.33$		

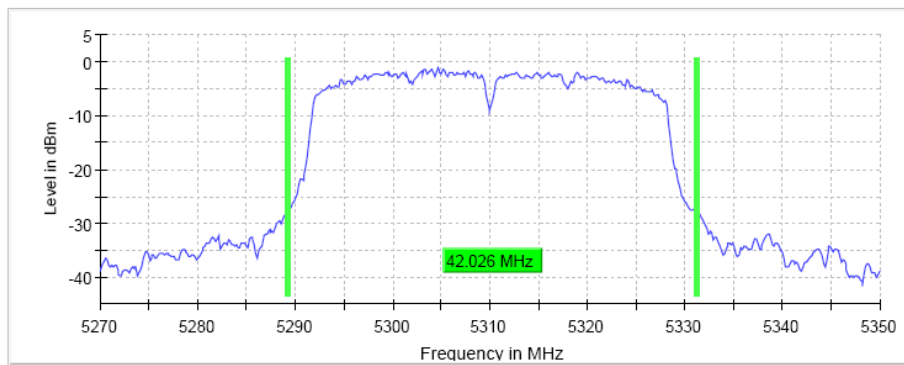
TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.)

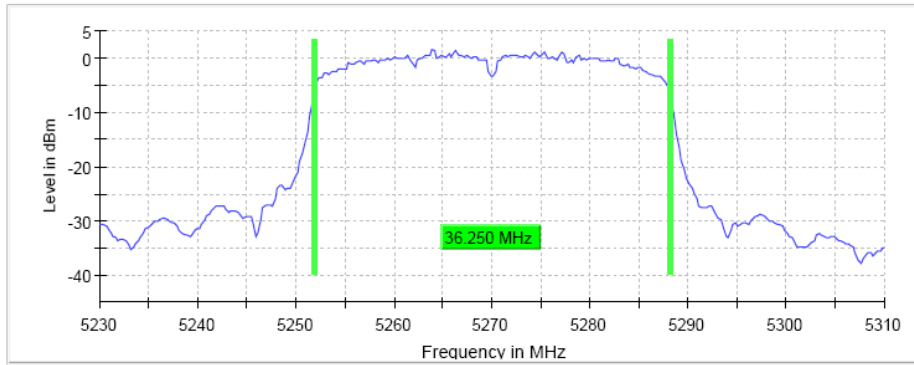
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.23000 GHz	5.27000 GHz
Stop Frequency	5.31000 GHz	5.35000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 kHz
VBW	1.000 MHz	1.000 MHz
SweepPoints	267	267
SweepTime	31.603 μ s	31.603 μ s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	103 / max. 150	41 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.29 dB	0.11 dB

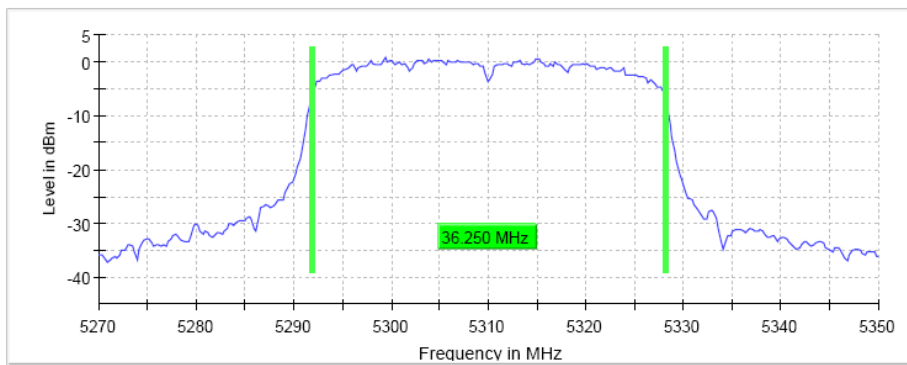
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Highest Channel

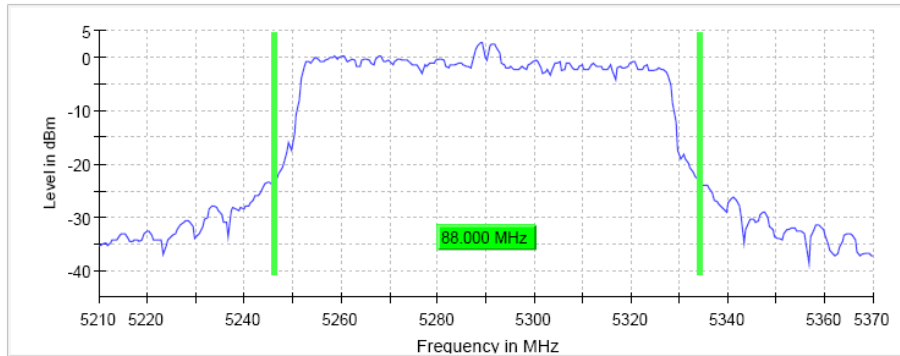


TEST RESULTS (Cont.)		
Measurement		
	Setting	Instrument Value
	Start Frequency	5.23000 GHz
	Stop Frequency	5.31000 GHz
	Span	80.000 MHz
	RBW	500.000 kHz
	VBW	2.000 MHz
	SweepPoints	320
	SweepTime	18.906 us
	Reference Level	0.000 dBm
	Attenuation	20.000 dB
	Detector	Max Peak
	SweepCount	200
	Filter	3 dB
	Trace Mode	Max Hold
	SweepType	FFT
	Preamp	off
	Stablemode	Trace
	Stablevalue	0.30 dB
	Run	108 / max.
	Stable	5 / 5
	Max Stable	0.00 dB
		5.27000 GHz
		5.35000 GHz
		80.000 MHz
		500.000 kHz
		2.000 MHz
		320
		18.906 us
		0.000 dBm
		20.000 dB
		Max Peak
		200
		3 dB
		Max Hold
		FFT
		off
		Trace
		0.30 dB
		70 / max. 150
		5 / 5
		0.30 dB
TEST RESULTS	ac mode (80 MHz)	
		Lowest frequency
		5290 MHz
	26dB bandwidth (MHz)	88.0
	Occupied bandwidth (MHz)	76.5
	Measurement uncertainty (kHz)	<± 8.33

TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



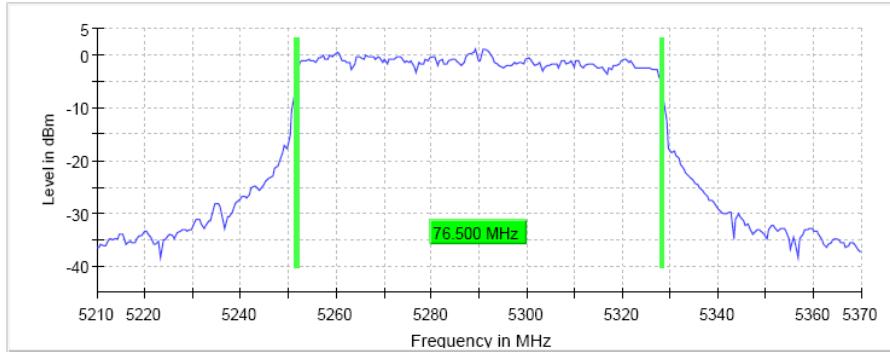
Measurement

Setting	Instrument Value
Start Frequency	5.21000 GHz
Stop Frequency	5.37000 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
SweepPoints	160
Sweeptime	22.754 μ s
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	FFT
Preamplifier	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	54 / max. 150
Stable	5 / 5
Max Stable Difference	0.23 dB

TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Measurement

Setting	Instrument Value
Start Frequency	5.21000 GHz
Stop Frequency	5.37000 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
SweepPoints	320
Sweeptime	22.875 μ s
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	FFT
Preamplifier	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	71 / max. 150
Stable	5 / 5
Max Stable Difference	0.00 dB

TEST C.2: POWER LIMITS. MAXIMUM OUTPUT POWER

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(a) (1) (4) and RSS-247 6.2.1.1

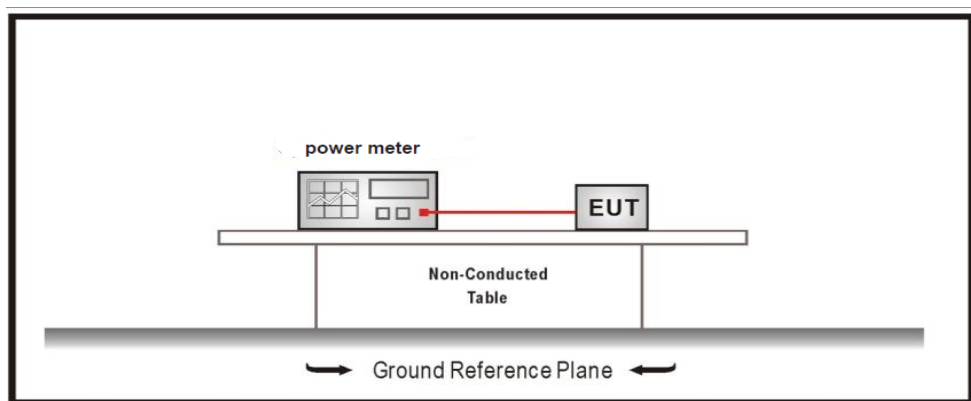
LIMITS

In band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

Measured according to ANSI C63.10, Section 11.9.2.3.2 Method AVGPM-G

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

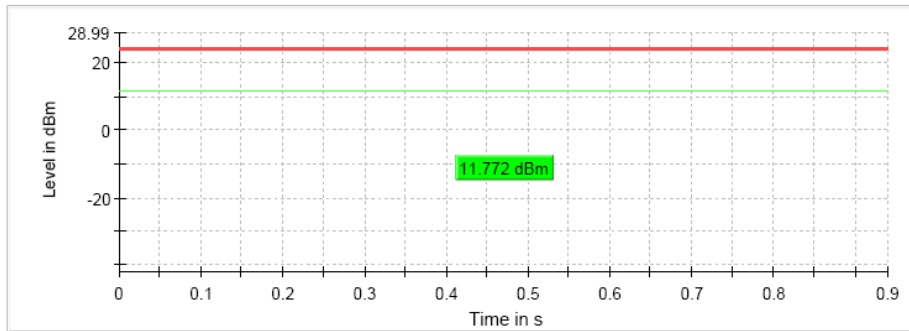
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5260 MHz	Middle frequency 5280 MHz	Highest frequency 5320 MHz
Maximum conducted power (dBm)	11.8	12.1	11.7
Maximum EIRP power (dBm)	16.3	16.6	16.2
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

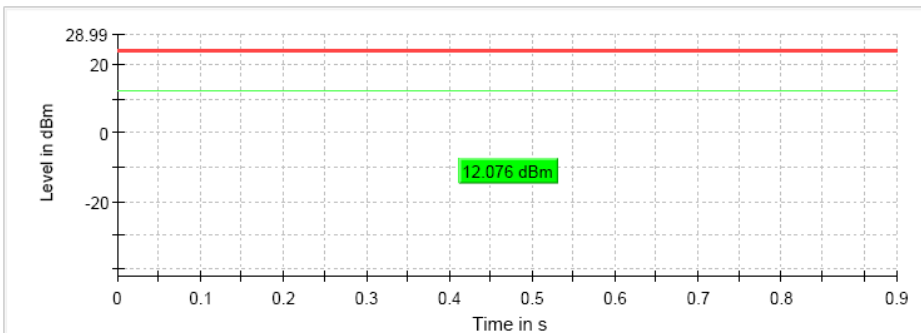
TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



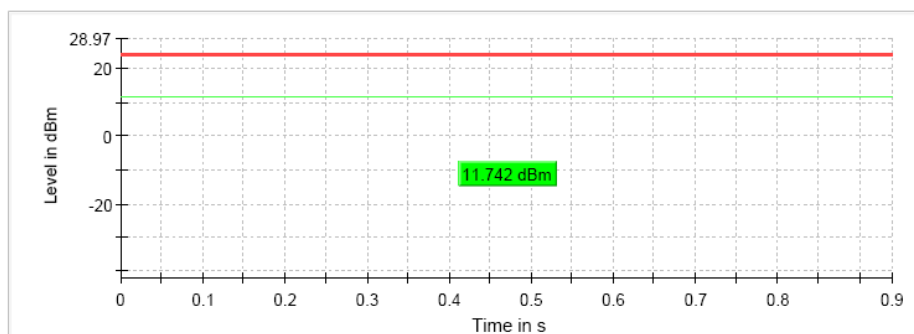
— Gated Trace — Overall — Limit

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

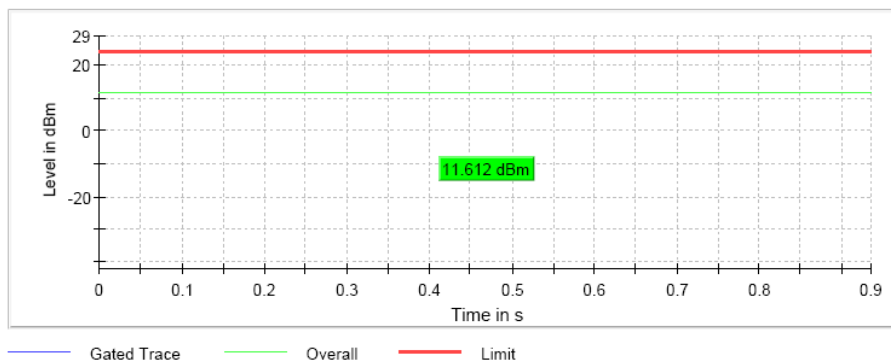
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5260 MHz	Middle frequency 5280 MHz	Highest frequency 5320 MHz
Maximum conducted power (dBm)	11.6	12.0	11.6
Maximum EIRP power (dBm)	16.1	16.5	16.1
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

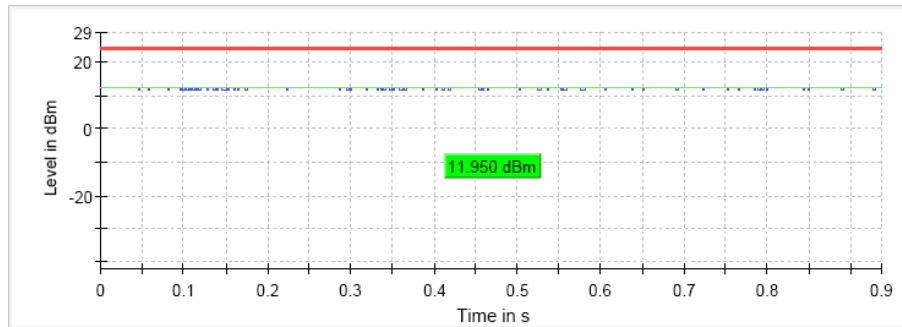
TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



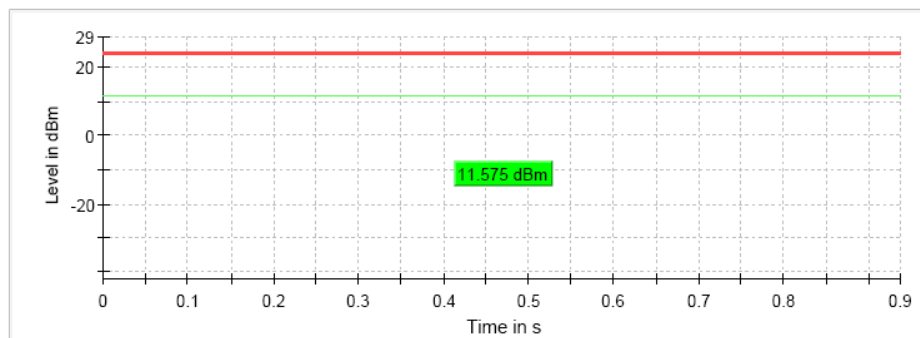
TEST RESULTS (Cont.)

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TEST RESULTS	n Mode (40 MHz)
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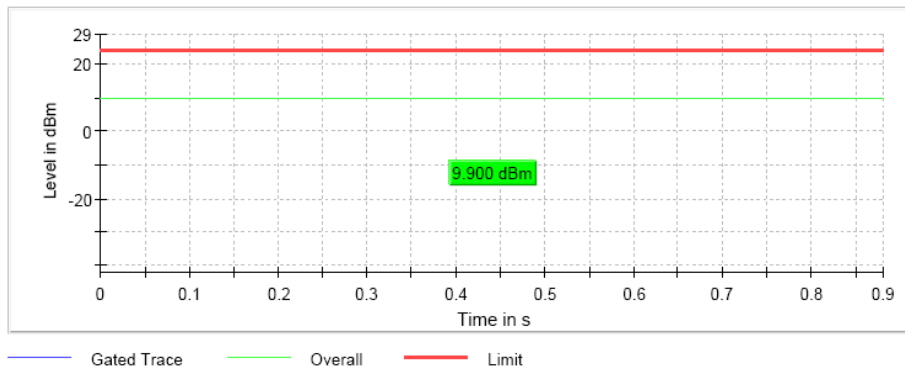
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5270 MHz	Highest frequency 5310 MHz
Maximum conducted power (dBm)	9.9	9.6
Maximum EIRP power (dBm)	14.4	14.1
Measurement uncertainty (dB)	$<\pm 0.78$	

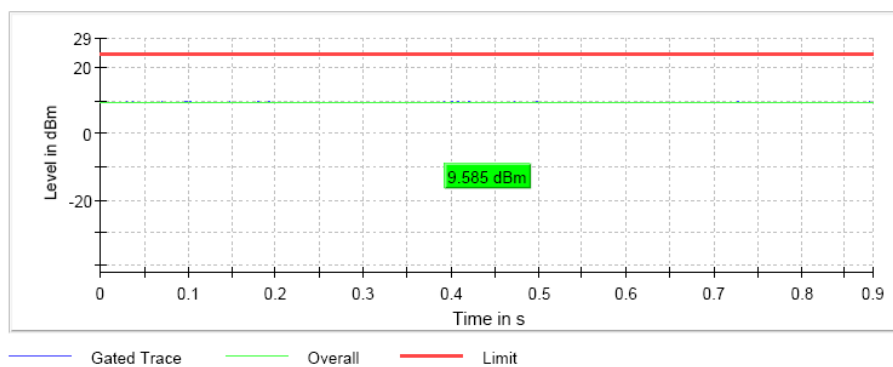
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
------------------------------	-------------------------------

Lowest Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

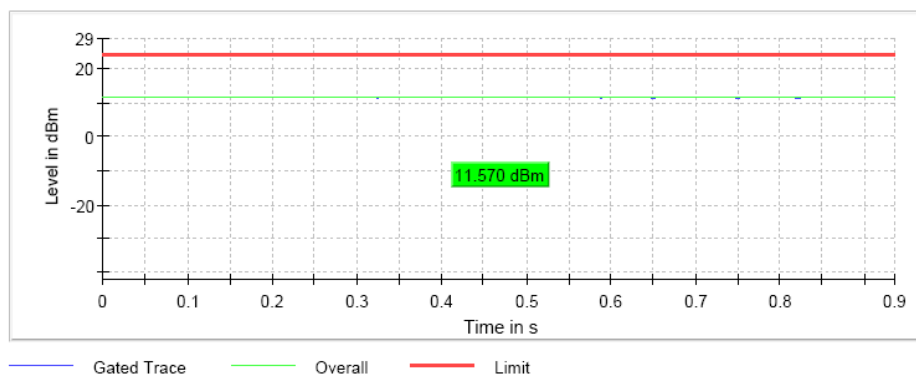
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5260 MHz	Middle frequency 5280 MHz	Highest frequency 5320 MHz
Maximum conducted power (dBm)	11.6	11.9	11.5
Maximum EIRP power (dBm)	16.1	16.4	16.0
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

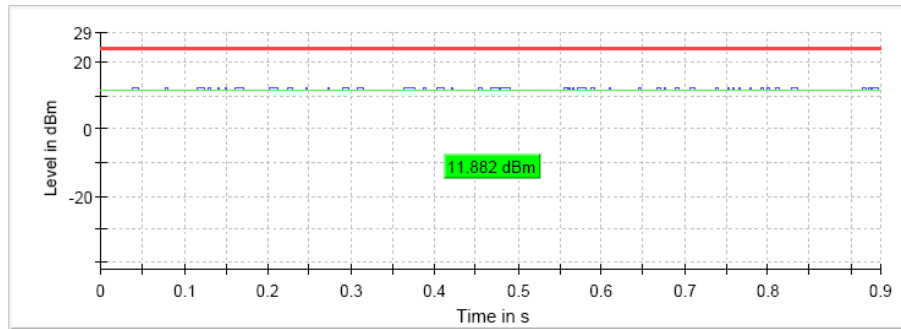
TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



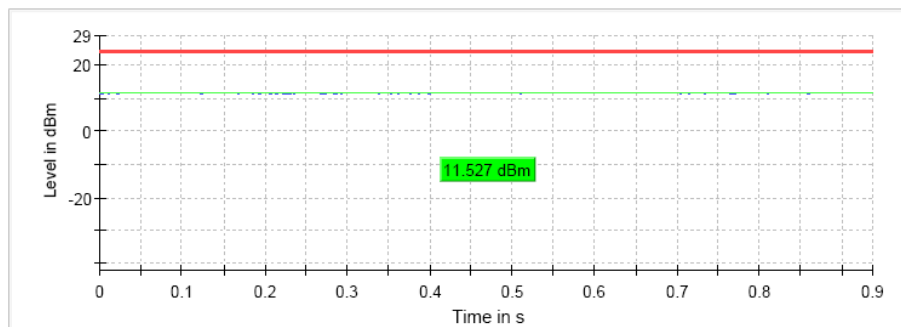
TEST RESULTS (Cont.)

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TEST RESULTS	ac mode (40 MHz)
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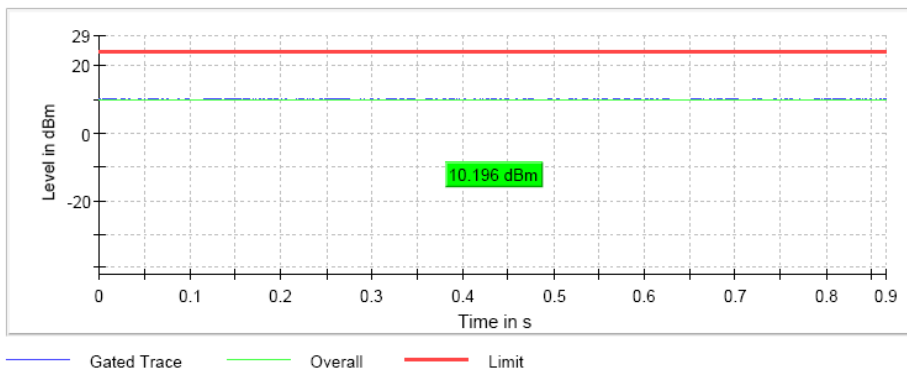
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5270 MHz	Highest frequency 5310 MHz
Maximum conducted power (dBm)	10.2	9.9
Maximum EIRP power (dBm)	14.7	14.4
Measurement uncertainty (dB)	<±0.78	

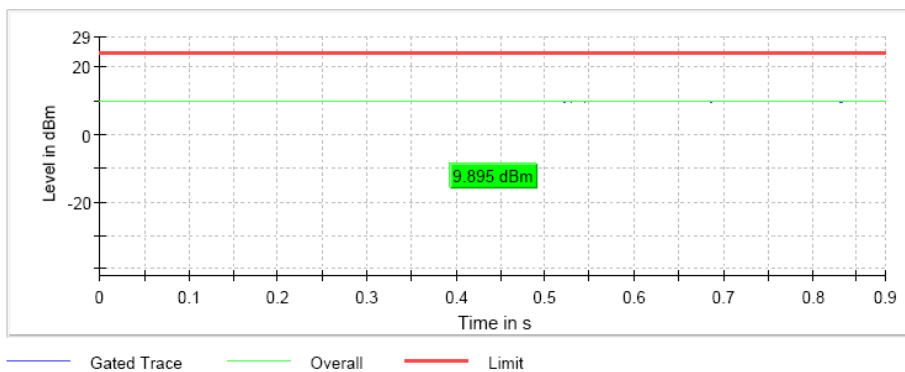
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



Highest Channel



TEST RESULTS	ac mode (80 MHz)
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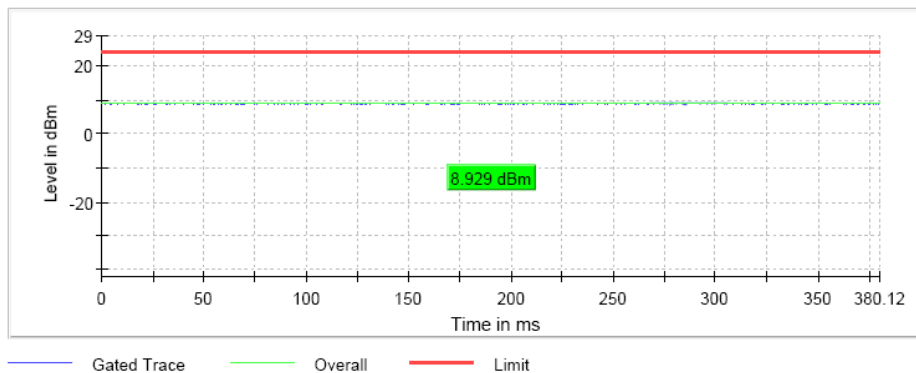
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5290 MHz
Maximum conducted power (dBm)	8.9
Maximum EIRP power (dBm)	13.4
Measurement uncertainty (dB)	<±0.78

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



TEST C.3: POWER SPECTRAL DENSITY

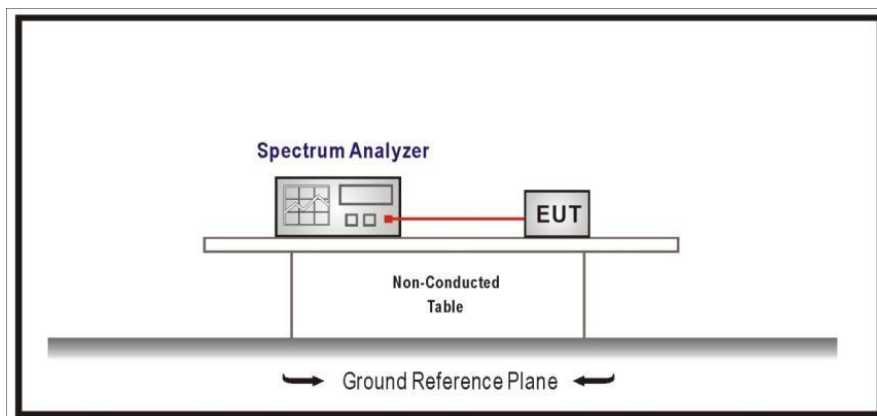
LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(a) (1) (5) and RSS-247 6.2.1.1

LIMITS

In the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

For all modes, the maximum power spectral density level in the fundamental emission was measured using the method according to point F) (Method SA-1) of Guidance 789033 D02 General UNII Test Procedures New Rules v01.



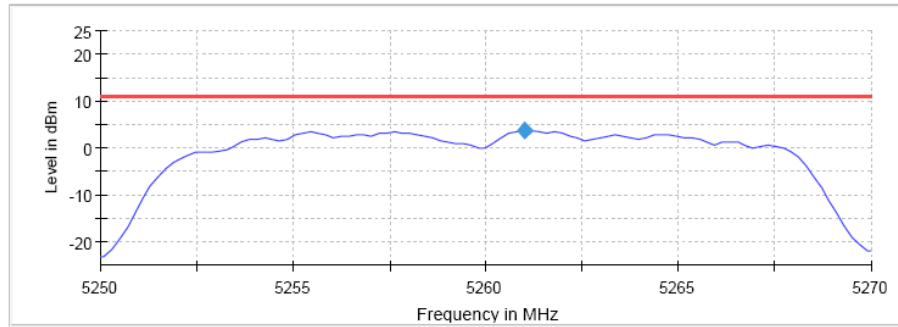
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

	Lowest frequency	Middle frequency	Highest frequency
	5260 MHz	5280 MHz	5320 MHz
Power spectral density (dBm)	3.726	3.598	3.078
Measurement uncertainty (dB)	<±0.78		

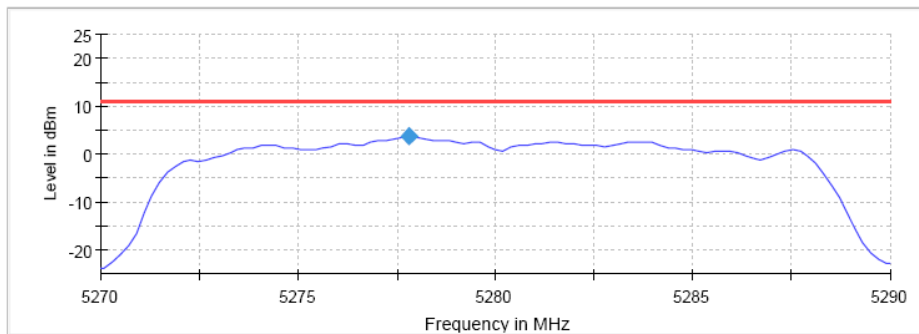
TEST RESULTS (Cont.):

Low Channel



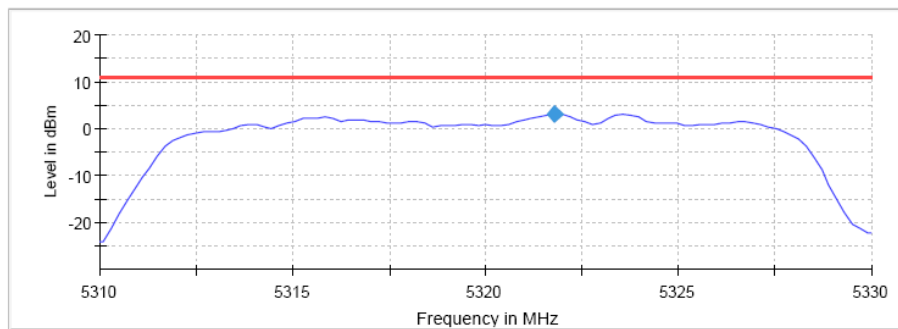
— Limit — Sum Level ◆ PSD

Middle Channel



— Limit — Sum Level ◆ PSD

High Channel



— Limit — Sum Level ◆ PSD

TEST RESULTS (Cont.):

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.25000 GHz	5.26000 GHz	5.31000 GHz
Stop Frequency	5.27000 GHz	5.31000 GHz	5.33000 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	1.000 MHz kHz	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz	3.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	20.000 dBm	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB	40.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
SweepType	Sweep	Sweep	Sweep
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.06 dB	0.05 dB	0.04 dB

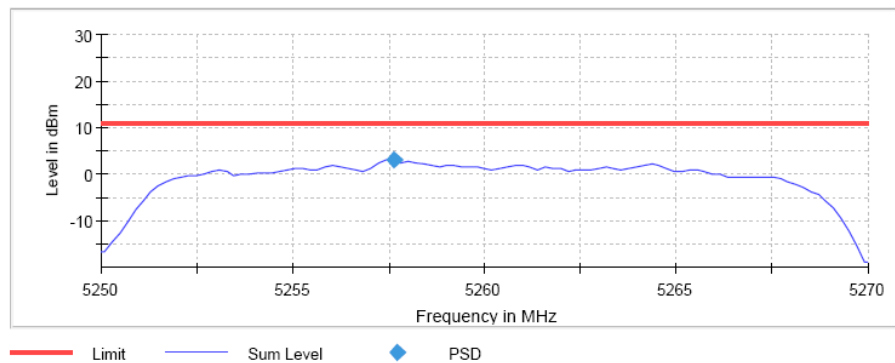
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

	Lowest frequency 5260 MHz	Middle frequency 5280 MHz	Highest frequency 5320 MHz
Power spectral density (dBm)	3041	3.327	3.024
Measurement uncertainty (dB)	<±0.78		

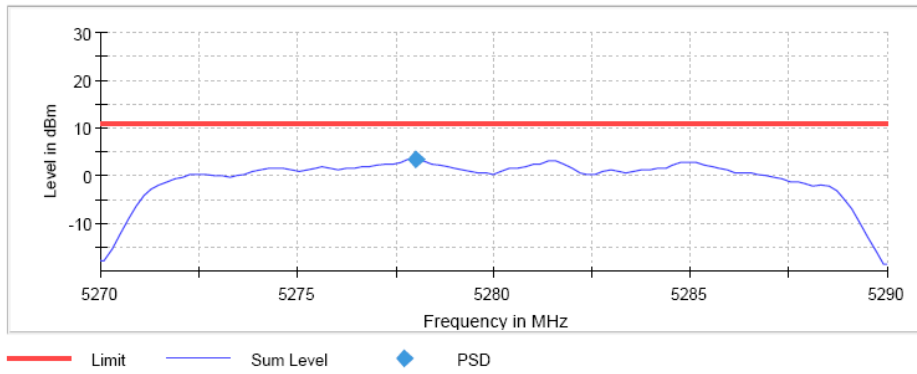
TEST RESULTS (Cont.):	
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Low Channel

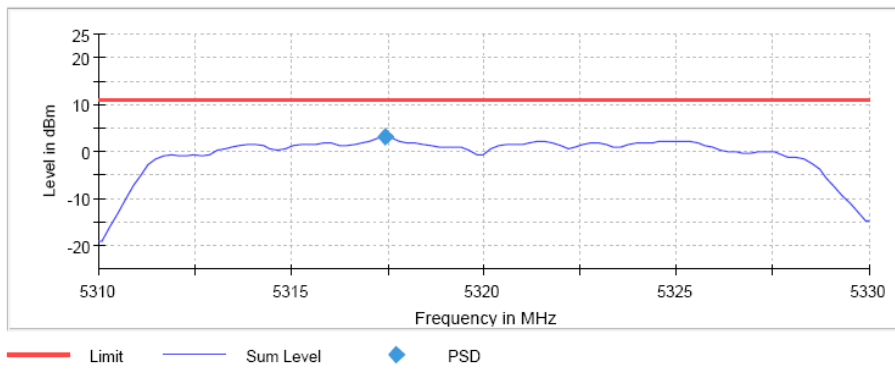


TEST RESULTS (Cont.):

Middle Channel



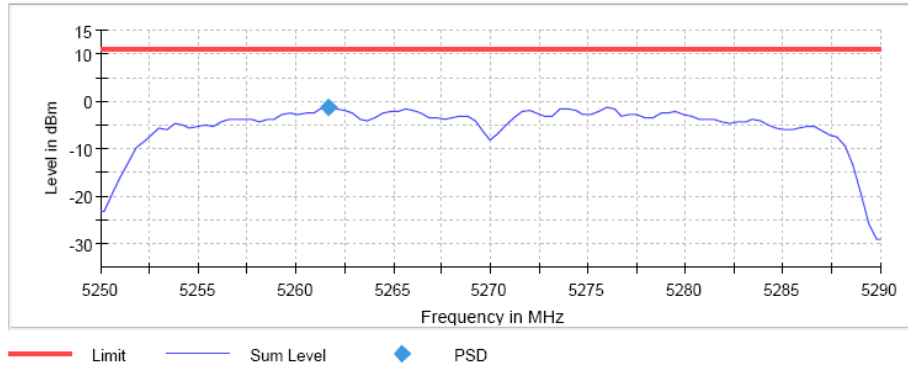
High Channel



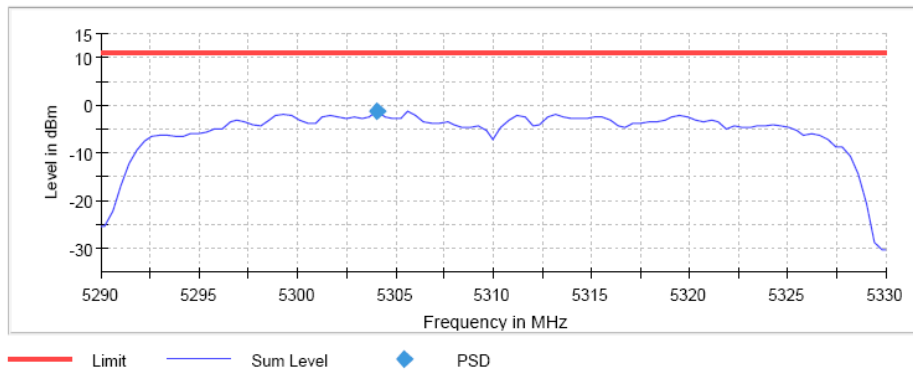
TEST RESULTS (Cont.):				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.25000 GHz	5.26000 GHz	5.31000 GHz
	Stop Frequency	5.27000 GHz	5.31000 GHz	5.33000 GHz
	Span	20.000 MHz	20.000 MHz	20.000 MHz
	RBW	1.000 MHz	1.000 MHz	1.000 MHz
	VBW	3.000 MHz	3.000 MHz	3.000 MHz
	SweepPoints	101	101	101
	SweepTime	2.020 s	2.020 s	2.020 s
	Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
	Attenuation	30.000 dB	30.000 dB	30.000 dB
	Detector	RMS	RMS	RMS
	SweepCount	3	3	3
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	SweepType	Sweep	Sweep	Sweep
	Preamp	off	off	off
	Stablemode	Trace	Trace	Trace
	Stablevalue	0.30 dB	0.30 dB	0.30 dB
	Run	4 / max. 150	4 / max. 150	4 / max. 150
	Stable	3 / 3	3 / 3	3 / 3
	Max Stable Difference	0.04 dB	0.04 dB	0.06 dB
TEST RESULTS (Cont.):	n Mode			
Bandwidth: 40 MHz				
		Lowest frequency 5270 MHz	Highest frequency 5310 MHz	
	Power spectral density (dBm)	-1.131	-1.261	
	Measurement uncertainty (dB)	<±0.78		

TEST RESULTS (Cont.):

Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

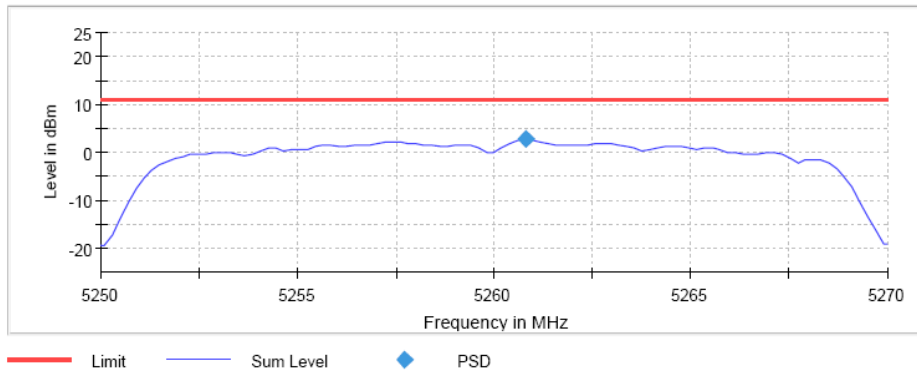
Setting	Instrument Value	Instrument Value
Start Frequency	5.25000 GHz	5.29000 GHz
Stop Frequency	5.29000 GHz	5.33000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	101	101
Sweeptime	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.04 dB	0.06 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

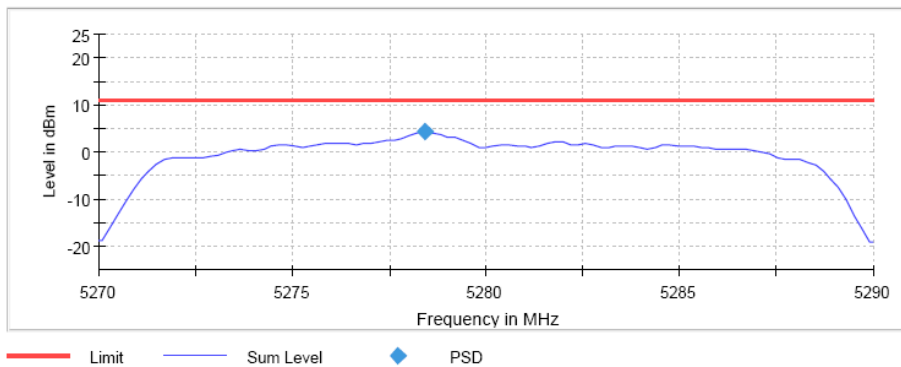
Bandwidth: 20 MHz

	Lowest frequency 5260 MHz	Middle frequency 5280 MHz	Highest frequency 5320 MHz
Power spectral density (dBm)	2.727	4.275	3.366
Measurement uncertainty (dB)	<±0.78		

Lowest Channel

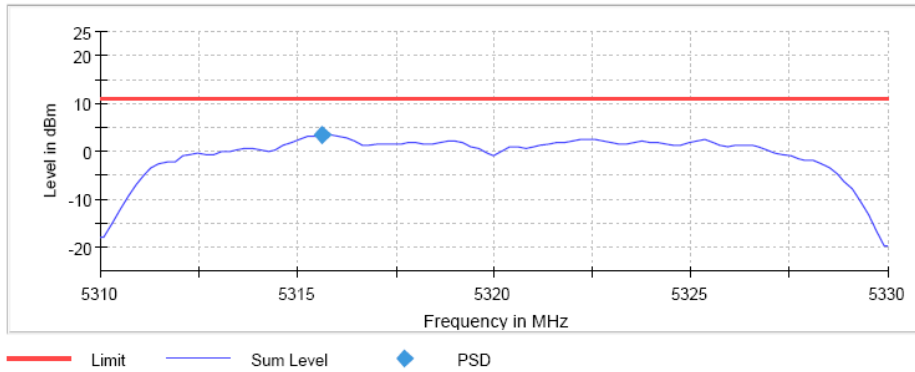


Middle Channel



TEST RESULTS (Cont.)

Highest Channel



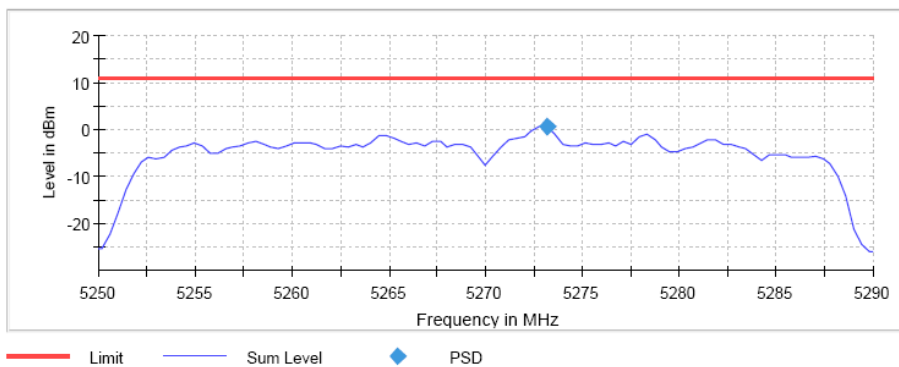
Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.25000 GHz	5.26000 GHz	5.31000 GHz
Stop Frequency	5.27000 GHz	5.30000 GHz	5.33000 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	1.000 MHz	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz	3.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	Sweep	Sweep	Sweep
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable Difference	0.06 dB	0.04 dB	0.04 dB

TEST RESULTS	ac Mode (40 MHz)
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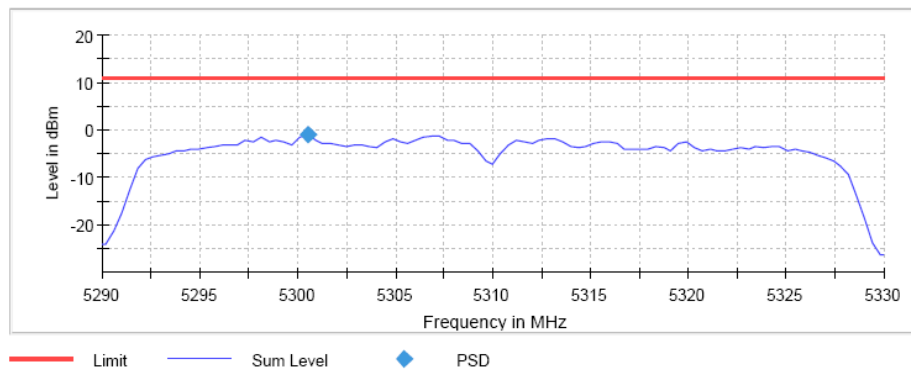
	Lowest frequency 5270 MHz	Highest frequency 5310 MHz
Power spectral density (dBm)	0.500	-0.869
Measurement uncertainty (dB)	$<\pm 0.78$	

TEST RESULTS (Cont.):	
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Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.25000	5.29000
Stop Frequency	5.29000	5.33000
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	101	101
Sweeptime	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.10 dB	0.07 dB

TEST RESULTS	ac Mode (80 MHz)						
	<table border="1"> <tr> <td></td> <td style="text-align: center;">Lowest frequency 5290 MHz</td> </tr> <tr> <td style="text-align: center;">Power spectral density (dBm)</td> <td style="text-align: center;">-3.767</td> </tr> <tr> <td style="text-align: center;">Measurement uncertainty (dB)</td> <td style="text-align: center;"><±0.78</td> </tr> </table>		Lowest frequency 5290 MHz	Power spectral density (dBm)	-3.767	Measurement uncertainty (dB)	<±0.78
	Lowest frequency 5290 MHz						
Power spectral density (dBm)	-3.767						
Measurement uncertainty (dB)	<±0.78						
TEST RESULTS (Cont.):							
Lowest Channel							
<p>— Limit — Sum Level ◆ PSD</p>							
Measurement							
Setting	Instrument Value						
Start Frequency	5.25000 GHz						
Stop Frequency	5.33000 GHz						
Span	80.000 MHz						
RBW	1.000 MHz						
VBW	3.000 MHz						
SweepPoints	160						
Sweptime	3.200 s						
Reference Level	10.000 dBm						
Attenuation	30.000 dB						
Detector	RMS						
SweepCount	3						
Filter	3 dB						
Trace Mode	Max Hold						
Sweeptype	Sweep						
Preamp	off						
Stablemode	Trace						
Stablevalue	0.30 dB						
Run	4 / max. 150						
Stable	3 / 3						
Max Stable Difference	0.11 dB						

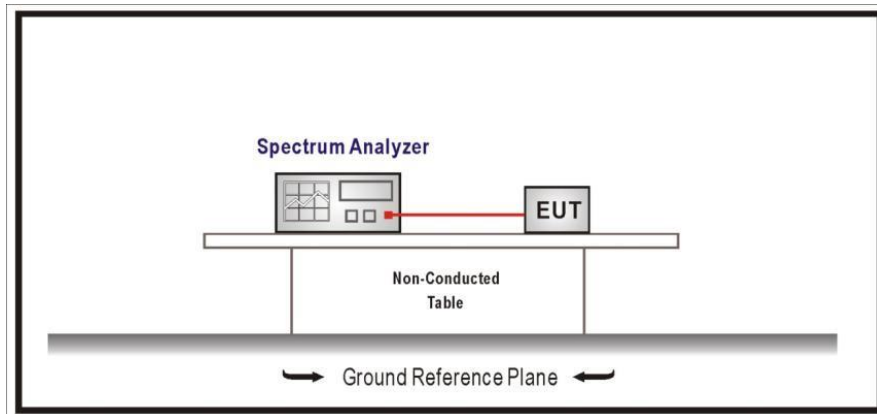
TEST C.4: BAND-EDGE EMISSIONS COMPLIANCE (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b)(1) and RSS-247 6.2.1.2

LIMITS

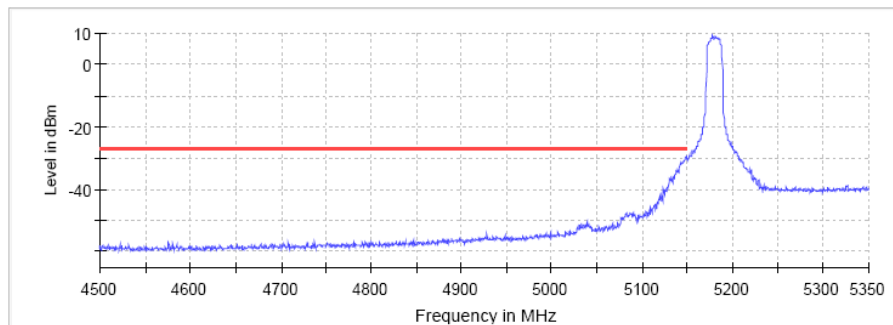
For transmitters operating in the 5.15 – 5.25 GHz band: all emissions outside the frequency band shall not exceed an EIRP of -27 dBm /MHz

TEST SETUP



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Lowest Channel

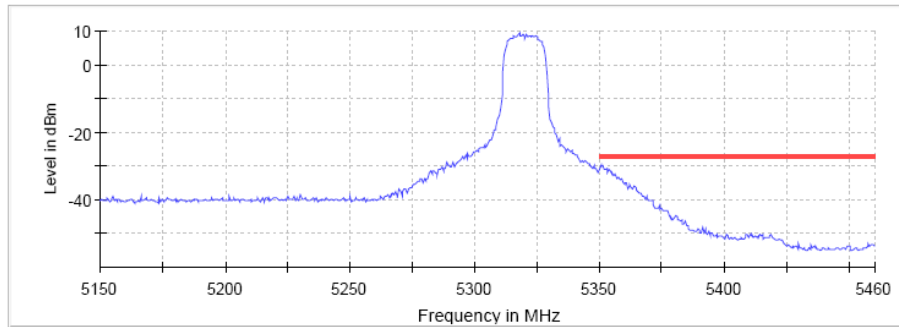


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-29.2	2.2	-27.0	PASS
5148.750000	-29.2	2.2	-27.0	PASS
5149.250000	-29.2	2.2	-27.0	PASS
5148.250000	-29.8	2.8	-27.0	PASS
5147.750000	-29.9	2.9	-27.0	PASS
5146.750000	-30.1	3.1	-27.0	PASS
5147.250000	-30.3	3.3	-27.0	PASS
5145.750000	-31.0	4.0	-27.0	PASS
5146.250000	-31.1	4.1	-27.0	PASS
5144.250000	-31.4	4.4	-27.0	PASS
5145.250000	-31.4	4.4	-27.0	PASS
5144.750000	-31.5	4.5	-27.0	PASS
5143.750000	-31.5	4.5	-27.0	PASS
5142.750000	-31.9	4.9	-27.0	PASS
5141.750000	-31.9	4.9	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



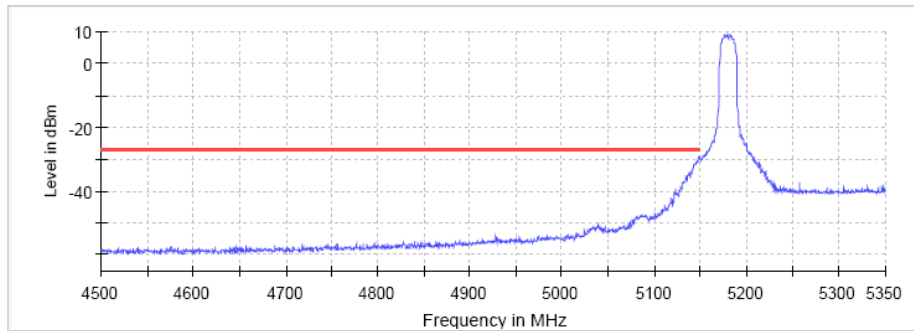
— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-29.7	2.7	-27.0	PASS
5351.250000	-30.0	3.0	-27.0	PASS
5350.750000	-30.3	3.3	-27.0	PASS
5352.750000	-30.7	3.7	-27.0	PASS
5352.250000	-31.0	4.0	-27.0	PASS
5351.750000	-31.2	4.2	-27.0	PASS
5353.750000	-31.3	4.3	-27.0	PASS
5354.250000	-31.5	4.5	-27.0	PASS
5355.250000	-31.8	4.8	-27.0	PASS
5353.250000	-31.9	4.9	-27.0	PASS
5354.750000	-32.2	5.2	-27.0	PASS
5356.250000	-32.4	5.4	-27.0	PASS
5355.750000	-32.7	5.7	-27.0	PASS
5357.750000	-33.2	6.2	-27.0	PASS
5357.250000	-33.2	6.2	-27.0	PASS

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel

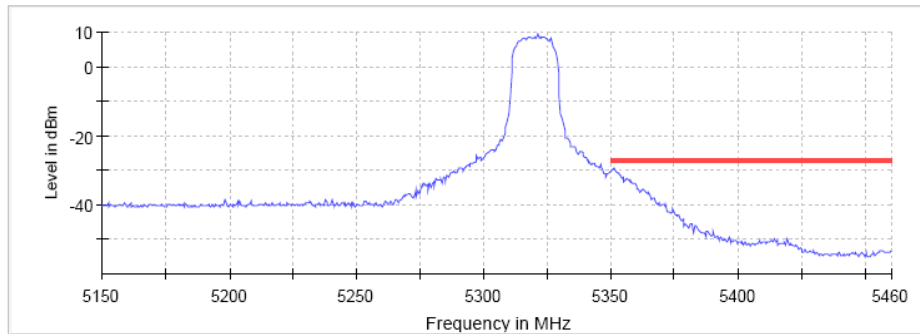


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-29.0	2.0	-27.0	PASS
5149.250000	-29.1	2.1	-27.0	PASS
5148.750000	-29.3	2.3	-27.0	PASS
5148.250000	-29.5	2.5	-27.0	PASS
5147.750000	-29.7	2.7	-27.0	PASS
5147.250000	-30.6	3.6	-27.0	PASS
5145.250000	-30.8	3.8	-27.0	PASS
5146.750000	-31.0	4.0	-27.0	PASS
5145.750000	-31.1	4.1	-27.0	PASS
5146.250000	-31.2	4.2	-27.0	PASS
5144.250000	-31.5	4.5	-27.0	PASS
5144.750000	-31.5	4.5	-27.0	PASS
5143.750000	-31.5	4.5	-27.0	PASS
5142.750000	-31.6	4.6	-27.0	PASS
5143.250000	-31.9	4.9	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



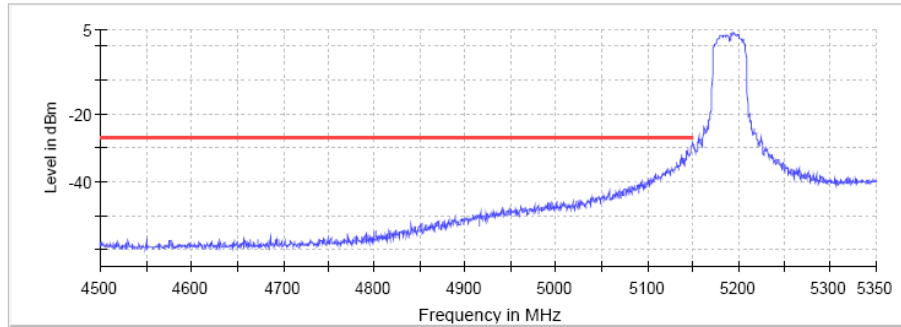
— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5351.250000	-29.3	2.3	-27.0	PASS
5350.250000	-29.9	2.9	-27.0	PASS
5350.750000	-29.9	2.9	-27.0	PASS
5351.750000	-30.4	3.4	-27.0	PASS
5352.250000	-30.6	3.6	-27.0	PASS
5352.750000	-30.8	3.8	-27.0	PASS
5353.250000	-31.3	4.3	-27.0	PASS
5353.750000	-31.7	4.7	-27.0	PASS
5354.750000	-32.1	5.1	-27.0	PASS
5354.250000	-32.4	5.4	-27.0	PASS
5356.250000	-32.4	5.4	-27.0	PASS
5355.750000	-32.7	5.7	-27.0	PASS
5357.750000	-32.7	5.7	-27.0	PASS
5356.750000	-33.0	6.0	-27.0	PASS
5357.250000	-33.1	6.1	-27.0	PASS

TEST RESULTS (Cont.):

n Mode (40 MHz)

Lowest Channel

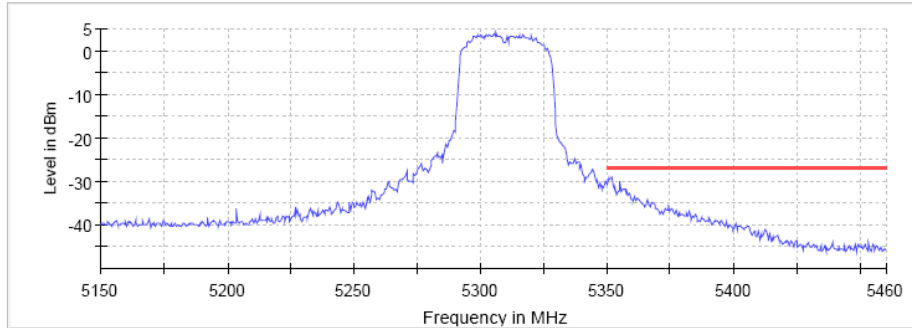


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-28.2	1.2	-27.0	PASS
5149.250000	-28.9	1.9	-27.0	PASS
5148.750000	-29.0	2.0	-27.0	PASS
5148.250000	-29.7	2.7	-27.0	PASS
5147.750000	-30.6	3.6	-27.0	PASS
5147.250000	-30.6	3.6	-27.0	PASS
5144.250000	-30.7	3.7	-27.0	PASS
5143.750000	-30.7	3.7	-27.0	PASS
5142.250000	-31.1	4.1	-27.0	PASS
5146.750000	-31.2	4.2	-27.0	PASS
5143.750000	-31.2	4.2	-27.0	PASS
5144.750000	-31.7	4.7	-27.0	PASS
5145.250000	-32.0	5.0	-27.0	PASS
5146.250000	-32.2	5.2	-27.0	PASS
5137.750000	-32.4	5.4	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



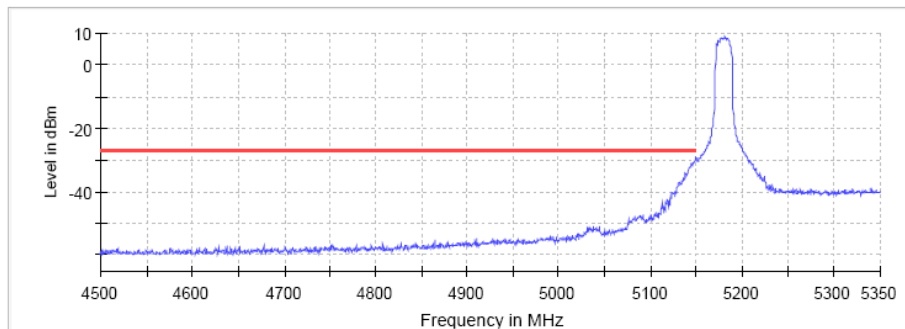
— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5351.750000	-29.1	2.1	-27.0	PASS
5350.250000	-29.3	2.3	-27.0	PASS
5351.250000	-29.3	2.3	-27.0	PASS
5350.750000	-29.8	2.8	-27.0	PASS
5355.250000	-30.2	3.2	-27.0	PASS
5352.250000	-30.9	3.9	-27.0	PASS
5353.250000	-31.6	4.6	-27.0	PASS
5356.250000	-31.7	4.7	-27.0	PASS
5356.750000	-31.8	4.8	-27.0	PASS
5354.750000	-32.0	5.0	-27.0	PASS
5352.750000	-32.1	5.1	-27.0	PASS
5357.750000	-32.2	5.2	-27.0	PASS
5354.250000	-32.3	5.3	-27.0	PASS
5355.750000	-32.4	5.4	-27.0	PASS
5357.250000	-32.6	5.6	-27.0	PASS

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mdoe)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel:

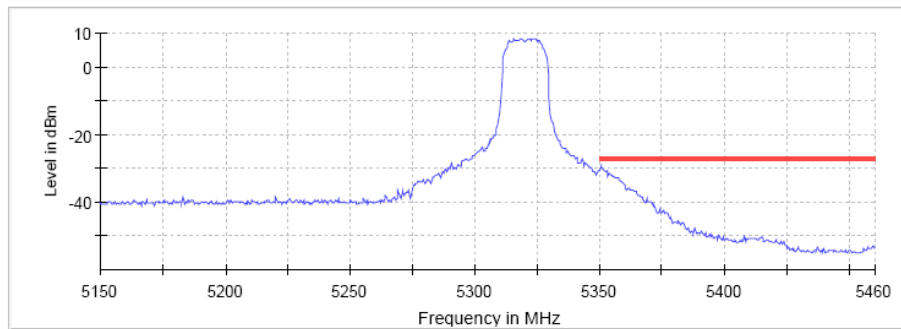


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250000	-28.8	1.8	-27.0	PASS
5149.750000	-29.0	2.0	-27.0	PASS
5148.750000	-29.7	2.7	-27.0	PASS
5147.750000	-30.4	3.4	-27.0	PASS
5148.250000	-30.6	3.6	-27.0	PASS
5146.750000	-30.7	3.7	-27.0	PASS
5145.750000	-30.8	3.8	-27.0	PASS
5147.250000	-31.0	4.0	-27.0	PASS
5146.250000	-31.2	4.2	-27.0	PASS
5144.750000	-31.3	4.3	-27.0	PASS
5145.250000	-31.8	4.8	-27.0	PASS
5143.750000	-31.8	4.8	-27.0	PASS
5144.250000	-31.9	4.9	-27.0	PASS
5142.750000	-32.0	5.0	-27.0	PASS
5141.750000	-32.1	5.1	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



— Limit — Sum Level × Fail

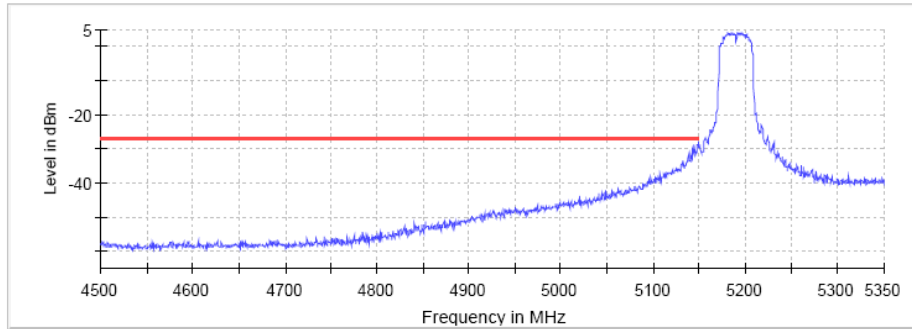
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-29.4	2.4	-27.0	PASS
5350.750000	-29.8	2.8	-27.0	PASS
5351.250000	-30.2	3.2	-27.0	PASS
5351.750000	-30.8	3.8	-27.0	PASS
5352.750000	-30.9	3.9	-27.0	PASS
5352.250000	-31.3	4.3	-27.0	PASS
5353.750000	-31.5	4.5	-27.0	PASS
5354.750000	-32.1	5.1	-27.0	PASS
5354.250000	-32.2	5.2	-27.0	PASS
5355.750000	-32.3	5.3	-27.0	PASS
5353.250000	-32.3	5.3	-27.0	PASS
5355.250000	-32.5	5.5	-27.0	PASS
5356.250000	-32.9	5.9	-27.0	PASS
5356.750000	-33.0	6.0	-27.0	PASS
5357.250000	-33.0	6.0	-27.0	PASS

TEST RESULTS (Cont.):

ac mode (40 MHz)

Bandwidth: 40 MHz

Lowest Channel

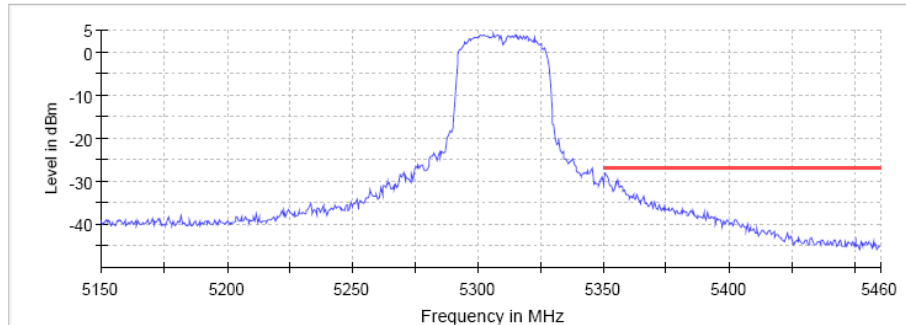


— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-27.8	0.8	-27.0	PASS
5149.250000	-28.0	1.0	-27.0	PASS
5144.750000	-28.5	1.5	-27.0	PASS
5148.250000	-28.9	1.9	-27.0	PASS
5148.750000	-28.9	1.9	-27.0	PASS
5142.750000	-29.9	2.9	-27.0	PASS
5146.750000	-30.3	3.3	-27.0	PASS
5144.250000	-30.3	3.3	-27.0	PASS
5143.750000	-30.8	3.8	-27.0	PASS
5142.250000	-31.1	4.1	-27.0	PASS
5145.250000	-31.1	4.1	-27.0	PASS
5147.250000	-31.2	4.2	-27.0	PASS
5147.750000	-31.3	4.3	-27.0	PASS
5138.250000	-31.3	4.3	-27.0	PASS
5145.750000	-31.3	4.3	-27.0	PASS

TEST RESULTS (Cont.):

Highest Channel



— Limit — Sum Level × Fail

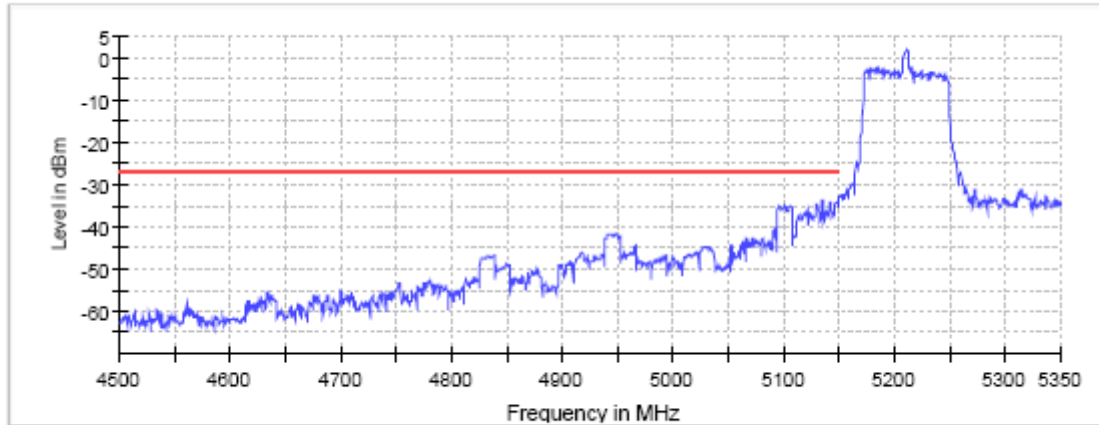
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-27.9	0.9	-27.0	PASS
5350.750000	-28.5	1.5	-27.0	PASS
5351.250000	-28.7	1.7	-27.0	PASS
5351.750000	-29.4	2.4	-27.0	PASS
5355.750000	-29.7	2.7	-27.0	PASS
5354.750000	-30.2	3.2	-27.0	PASS
5355.250000	-30.9	3.9	-27.0	PASS
5352.250000	-31.0	4.0	-27.0	PASS
5356.750000	-31.1	4.1	-27.0	PASS
5352.750000	-31.1	4.1	-27.0	PASS
5353.250000	-31.2	4.2	-27.0	PASS
5357.250000	-31.3	4.3	-27.0	PASS
5356.250000	-31.4	4.4	-27.0	PASS
5354.250000	-31.6	4.6	-27.0	PASS
5358.250000	-32.3	5.3	-27.0	PASS

TEST RESULTS (Cont.):

ac mode (80 MHz)

Bandwidth: 80 MHz

Lowest Channel



— Limit — Sum Level × Fail

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5146.750000	-30.2	3.2	-27.0	PASS
5113.750000	-31.1	4.1	-27.0	PASS
5147.250000	-31.2	4.2	-27.0	PASS
5146.250000	-31.6	4.6	-27.0	PASS
5148.250000	-31.7	4.7	-27.0	PASS
5147.750000	-31.7	4.7	-27.0	PASS
5116.750000	-31.8	4.8	-27.0	PASS
5113.250000	-32.0	5.0	-27.0	PASS
5126.750000	-32.0	5.0	-27.0	PASS
5120.750000	-32.1	5.1	-27.0	PASS
5140.250000	-32.1	5.1	-27.0	PASS
5149.250000	-32.2	5.2	-27.0	PASS
5127.250000	-32.2	5.2	-27.0	PASS
5114.250000	-32.3	5.3	-27.0	PASS
5121.750000	-32.3	5.3	-27.0	PASS

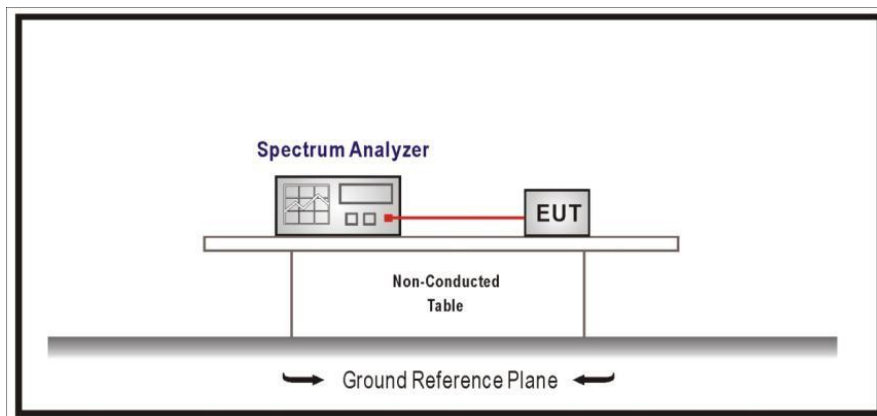
TEST C.5: EMISSION LIMITATIONS CONDUCTED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407, 15.207 and RSS-Gen
	Test standard:	Part 15 Subpart C §15.407(b)(6), 15.207 and RSS-Gen 8.8

LIMITS

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

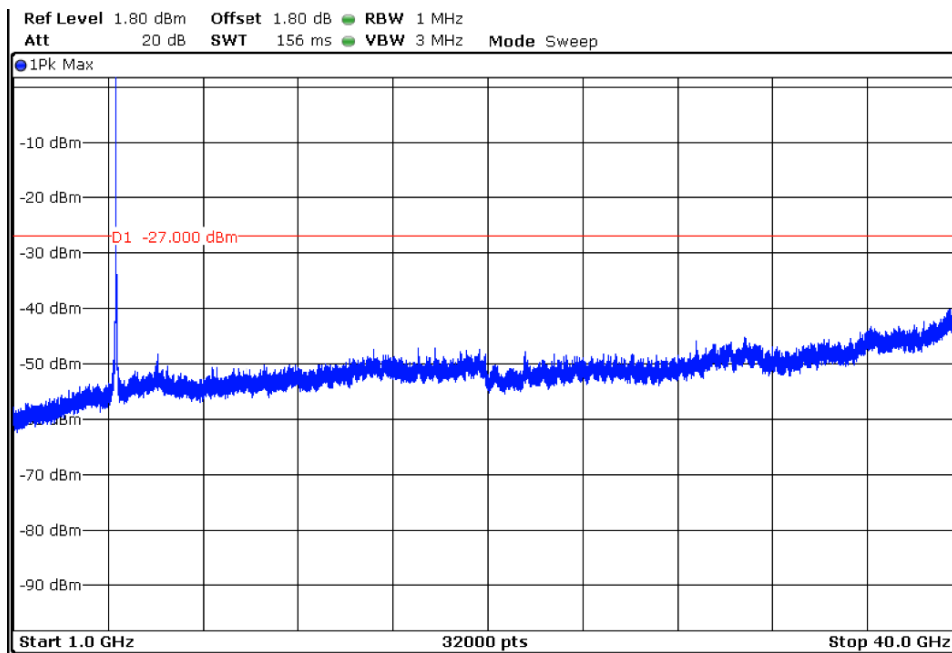
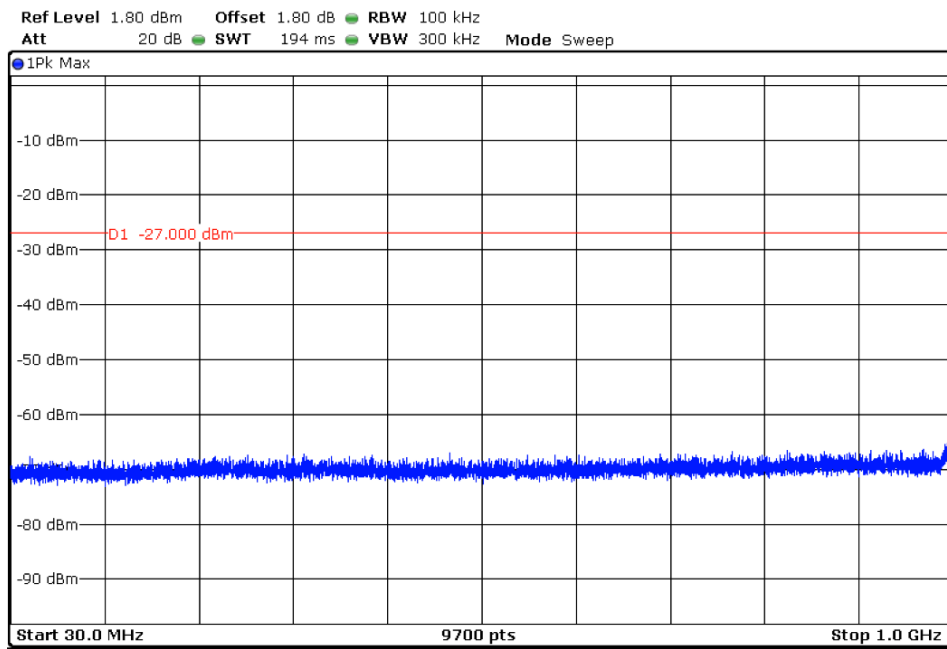
TEST SETUP



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Low channel

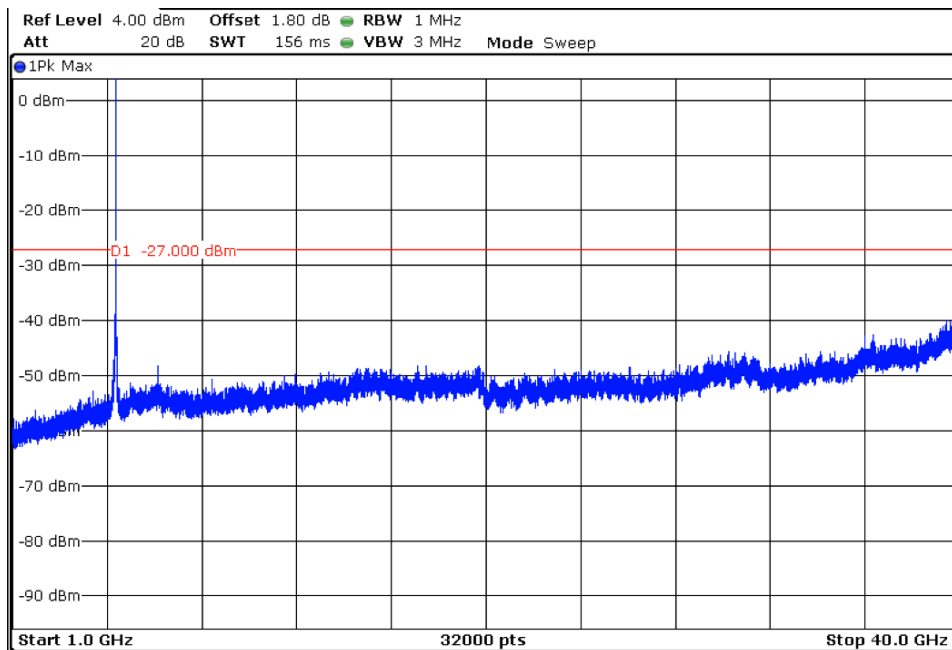
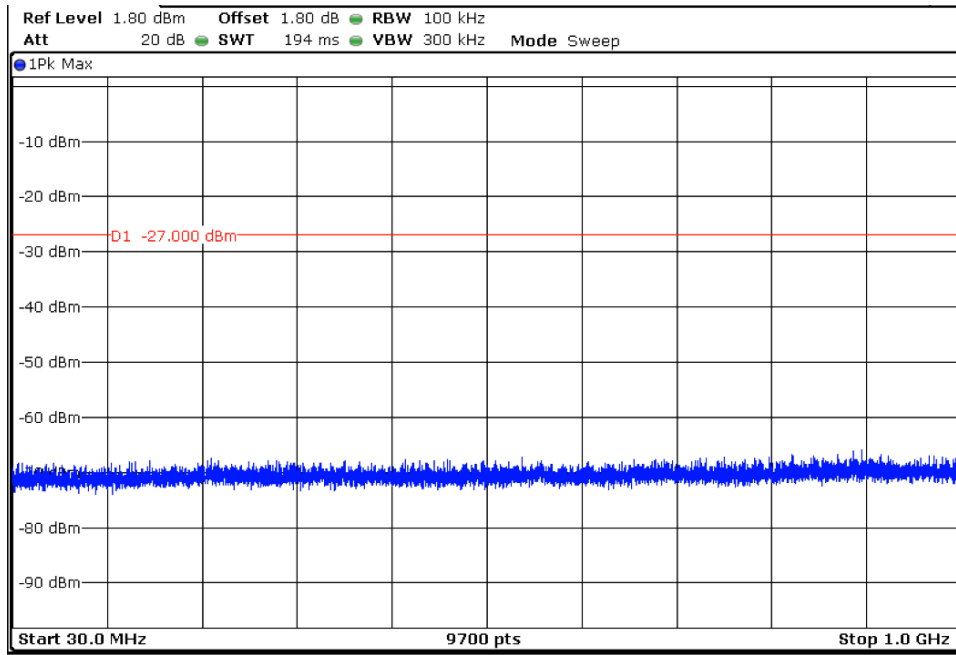
No spurious signal was detected at 20dB below the limit or above for the channel.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Mid channel

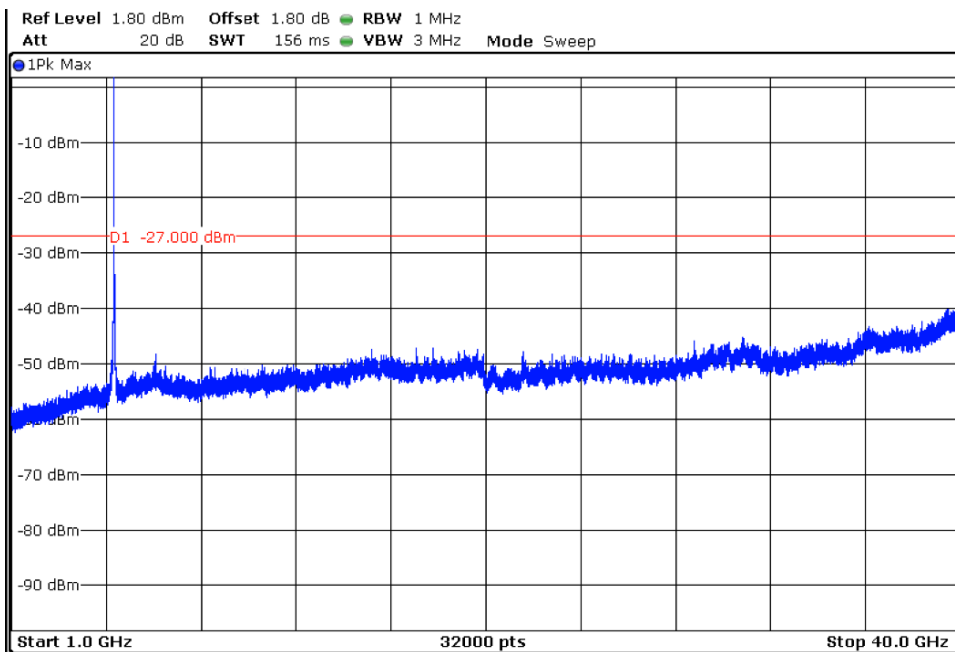
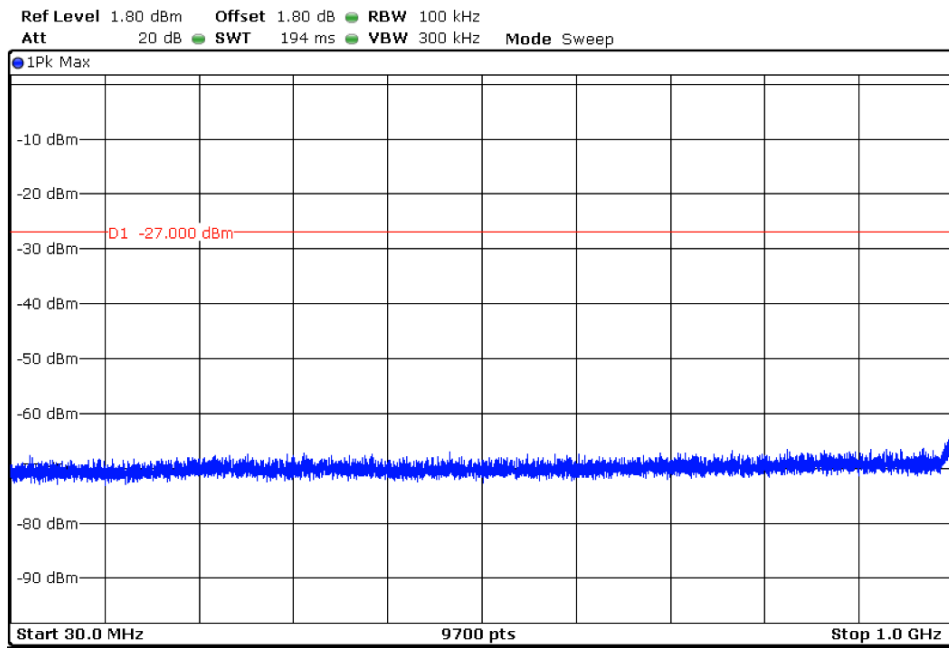
No spurious signal was detected at 20dB below the limit or above for the channel.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

High channel

No spurious signal was detected at 20dB below the limit or above for the channel.

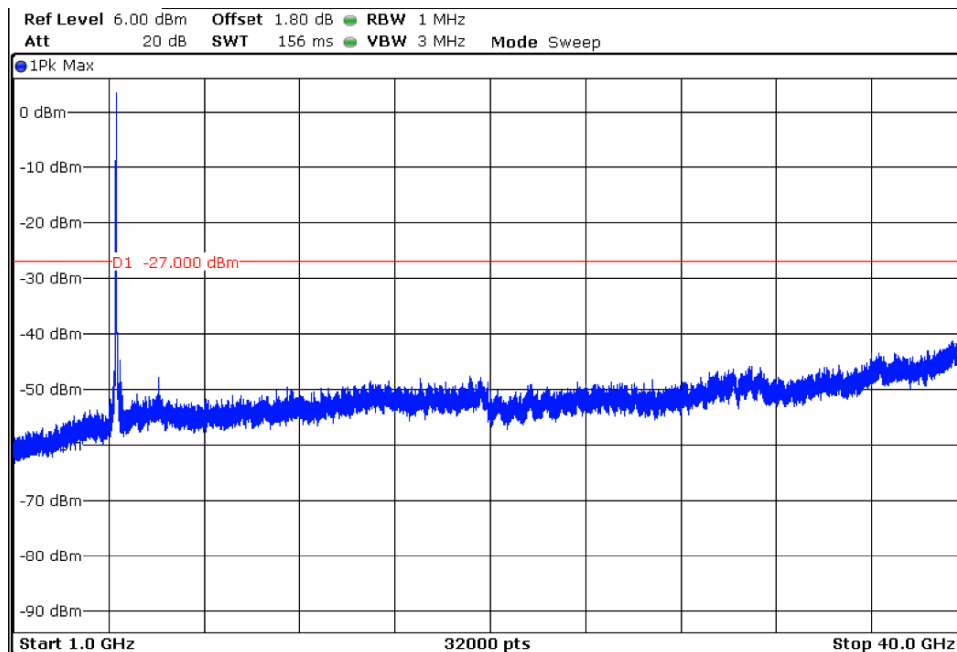
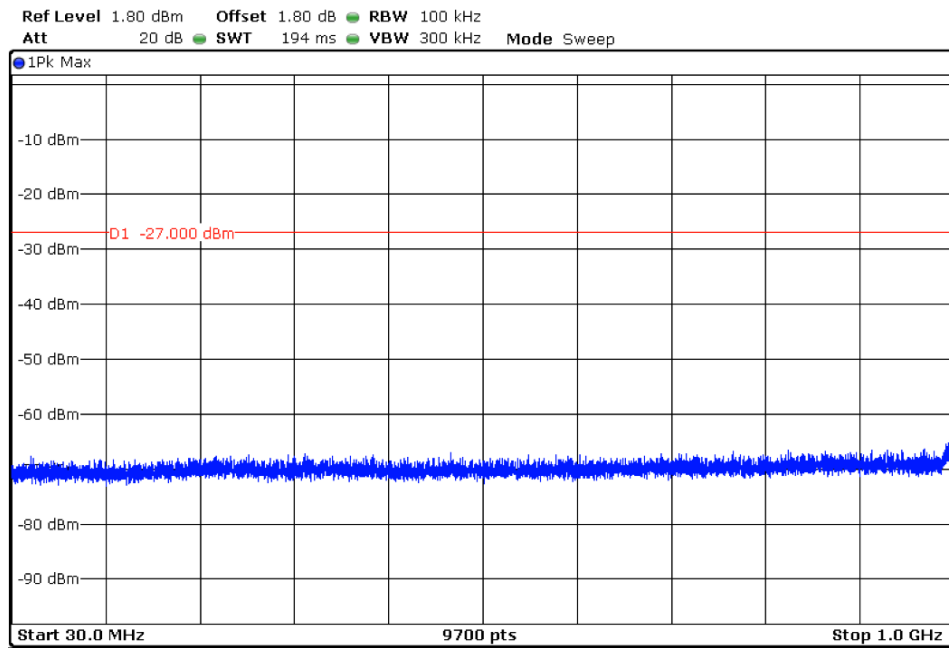


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

Low channel

No spurious signal was detected at 20dB below the limit or above for the channel.

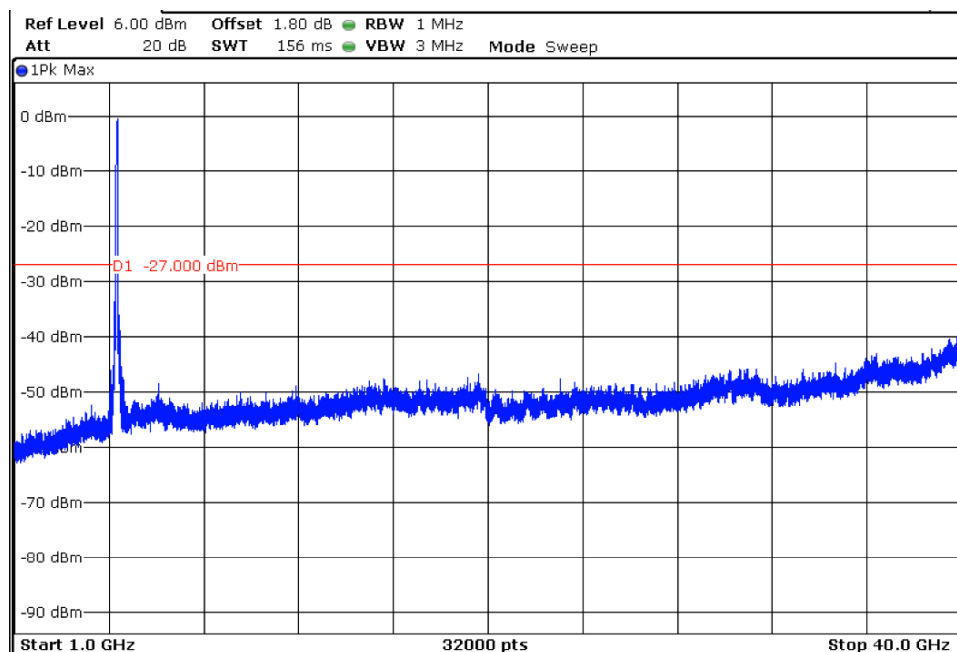
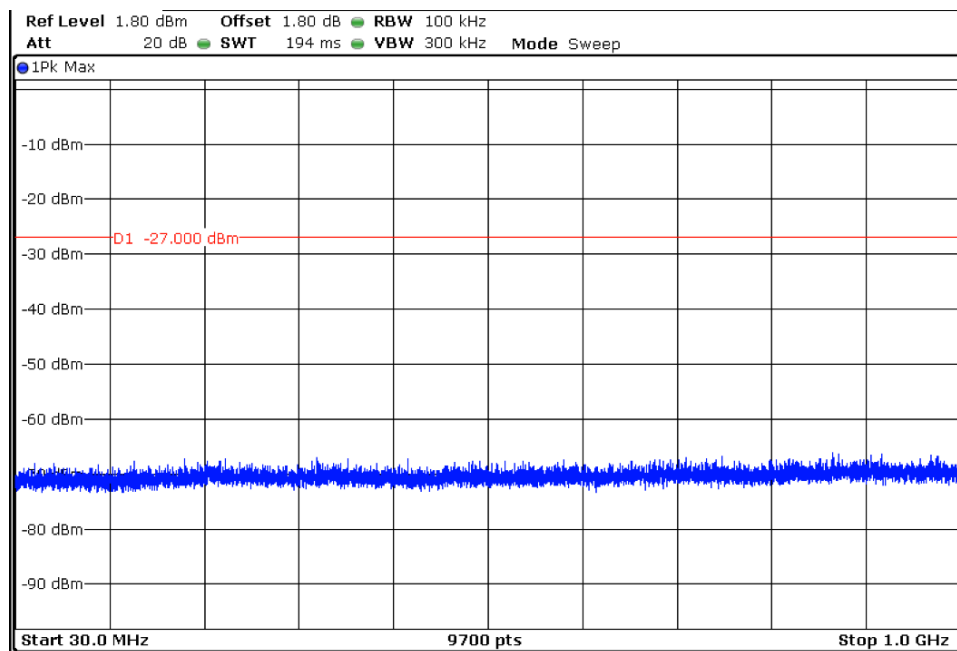


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 80 MHz

Low channel

No spurious signal was detected at 20dB below the limit or above for the channel.



TEST C.6: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b) (1)(6)(7) and RSS-247 6.2.1.2

LIMITS

For transmitters operating in the 5.15 – 5.25 GHz band: all emissions outside of the 5.15 – 5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.23 dBμ V/m at 3m distance).

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 at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

For radiated emissions in the range 1-40 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.

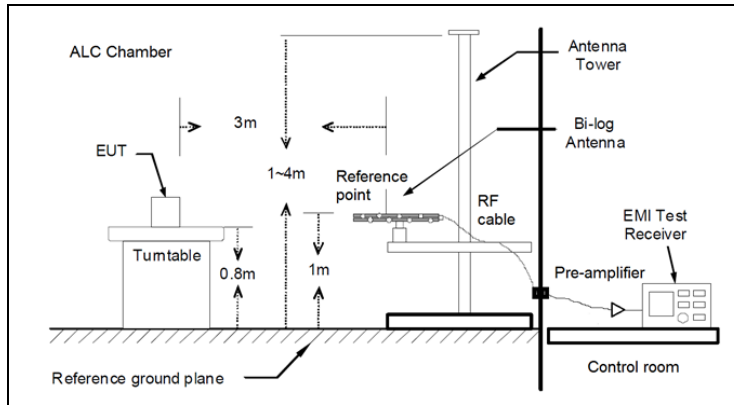
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

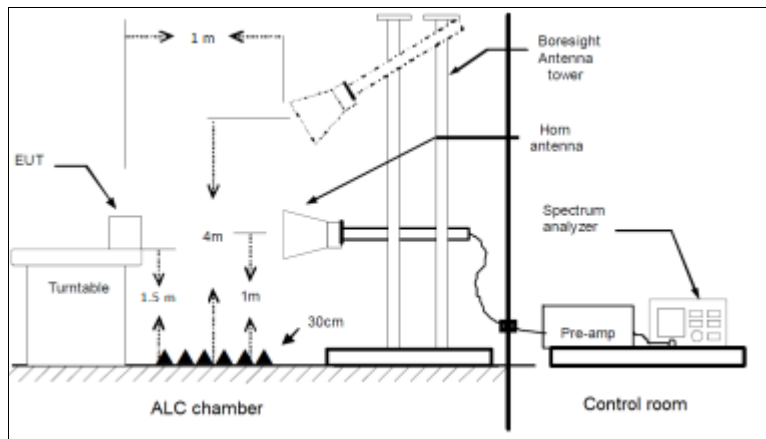
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT. See worst operation mode selected for all the ranges (a mode 20 MHz and Mid channel) as a worst case.

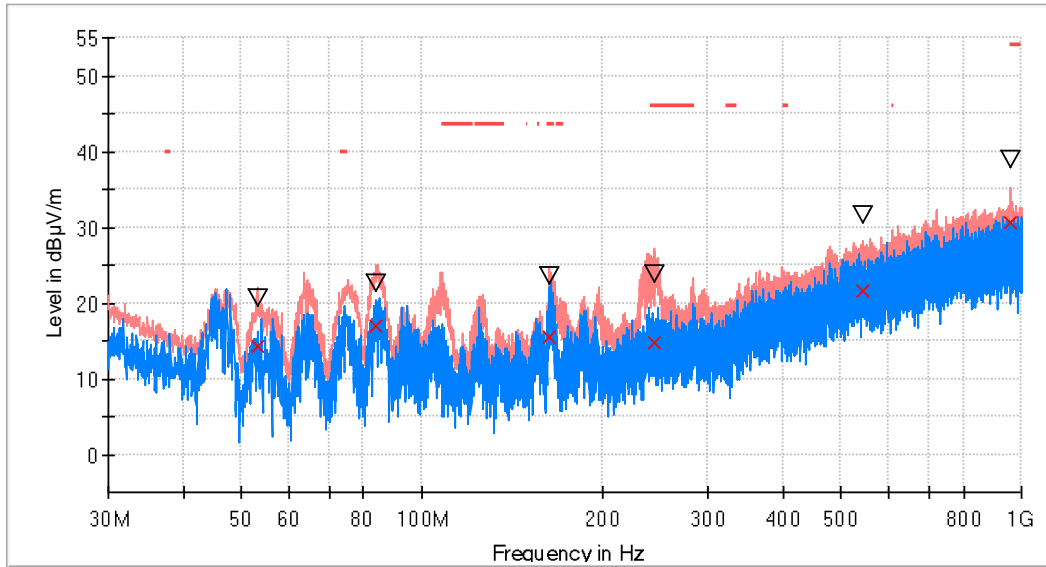
Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range and the restricted band 4.5 – 5.15 GHz.

TEST RESULTS (Cont.)	
FREQUENCY RANGE	30 MHz – 1 GHz

Mid Channel

RF_FCC_15.407_E Field_30MHz_1GHz

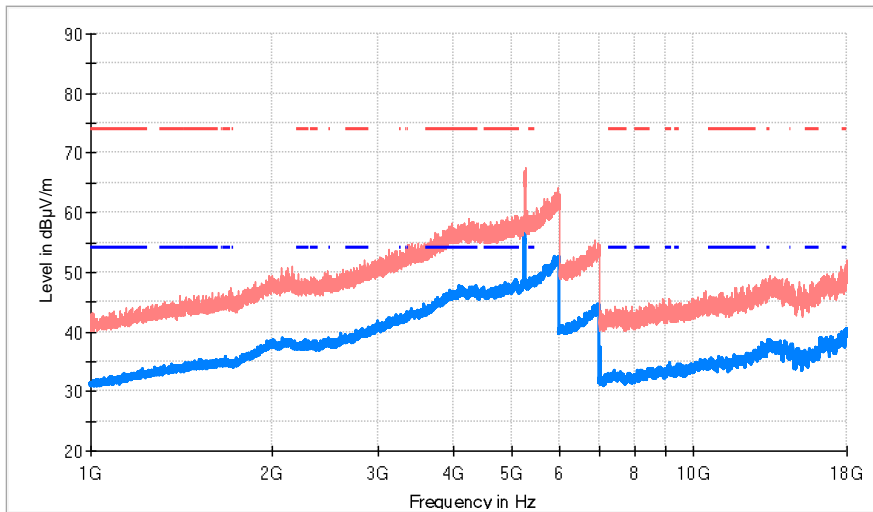


- PK+_MAXH
- PK+_CLRWR
- TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit
- ▽ MaxPeak-PK+ (Single)
- × QuasiPeak-QPK (Single)

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol
53.086000	20.7	14.2	V
83.980500	22.6	17.0	V
162.938500	23.5	15.5	V
244.418500	23.9	14.7	H
544.003000	31.7	21.7	H
960.036000	39.0	30.7	H

TEST RESULTS (Cont.)	
FREQUENCY RANGE	1 GHz – 18 GHz

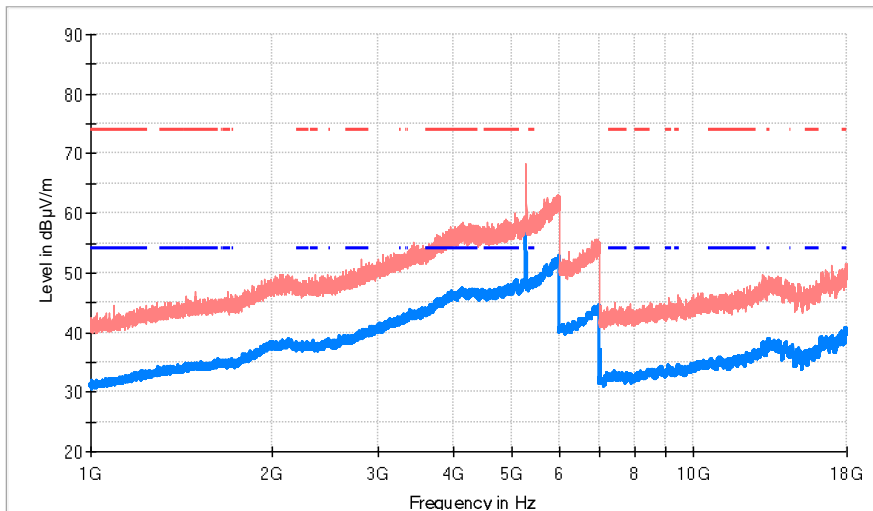
Low Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5258.863636	66.3	58.4	V	Fundamental

Middle Channel

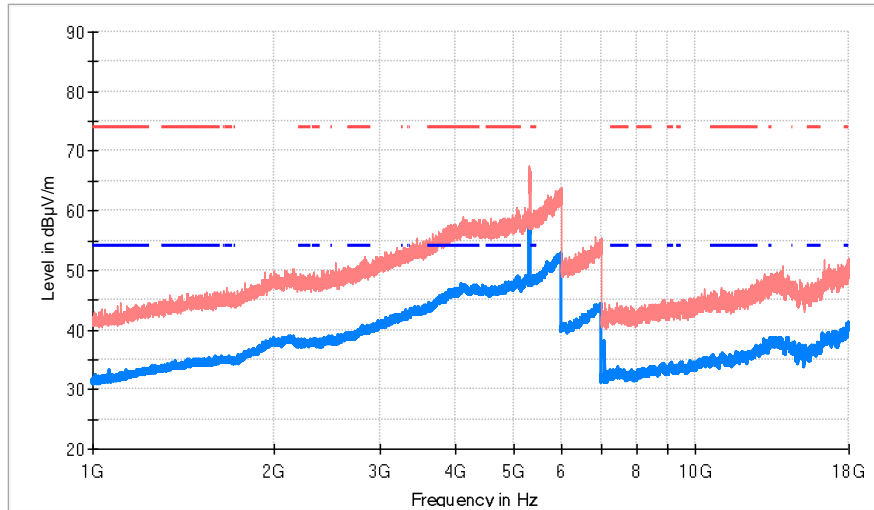


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5279.318182	67.3	58.7	V	Fundamental
7039.636364	43.5	37.0	V	

TEST RESULTS (Cont.)

High Channel



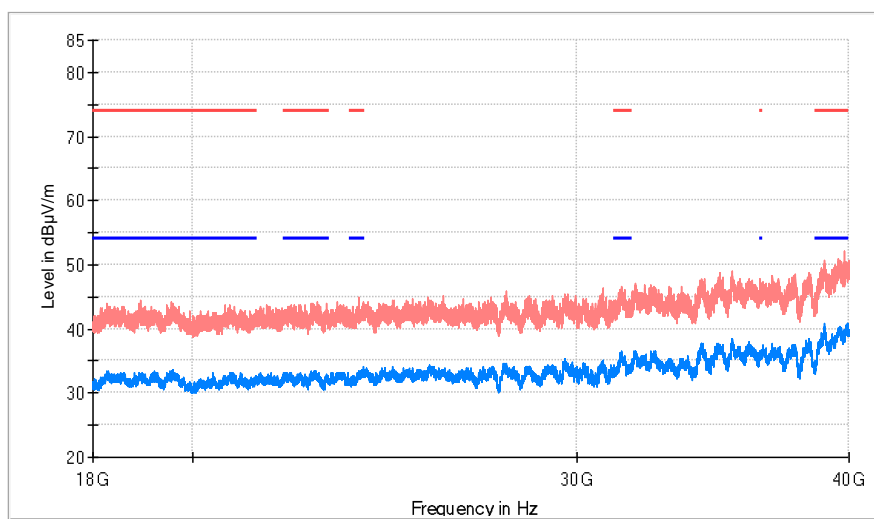
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5318.636364	65.9	58.4	V	Fundamental
7093.090909	44.5	38.1	V	

FREQUENCY RANGE

18 GHz – 40 GHz

Low Channel



- 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