

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Report No.: HR/2019/1000202

Technology Park, Nanshan District, Shenzhen, Page: 1 of 304

Guangdong, China 518057

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**FCC TEST REPORT** 

Application No: HR/2019/10002

Applicant: Huawei Technologies Co., Ltd.

Address of Applicant Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Manufacturer: Huawei Technologies Co., Ltd.

Address of Manufacturer Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Factory: Huawei Technologies Co., Ltd.

Address of Factory Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

EUT Description: Smart Phone
Model No.: VOG-L04
Trade Mark:: HUAWEI

FCC ID: QISVOG-L04

47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C

Standards: 47 CFR FCC Part 15, Subpart C 47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02

FCC KDB 558074 D01 DTS Meas Guidance v05 KDB 662911 D01 Multiple Transmitter Output v02r01

Test Method KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 Client Without DFS New Rules v01r02

ANSI C63.10-2013, American National Standard for Testing Unlicensed

Wireless Devices

Date of Receipt: 2019/1/3

**Date of Test:** 2019/1/3 to 2019/1/16

**Date of Issue:** 2019/1/17

Test Result: PASS \*

. \* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derele yang

Derek Yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2019/1/17		Original

Authorized for issue by:		
Tested By	Mike Mu	2019/1/17
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2019/1/17
	(David Chen) /Reviewer	Date

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# 2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
Unwanted	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
Emissions that fall Outside of the Restricted Bands(Radiated)	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.3	Pass
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209		Clause 4.4	Pass
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207		Clause 4.2	Pass

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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. Non-occupancy period: Minimum 30 minutes	Clause 4.5	Pass

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## 3 General Information

## 3.1 Client Information

Applicant:	Huawei Technologies Co., Ltd.		
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd Bantian, Longgang District, Shenzhen, 518129, P.R.C		
Manufacturer: Huawei Technologies Co., Ltd.			
Address of Manufacturer: Administration Building, Headquarters of Huawei Technologies Bantian, Longgang District, Shenzhen, 518129, P.R.C			
Factory: Huawei Technologies Co., Ltd.			
Address of Factory:  Administration Building, Headquarters of Huawei Technologies Co., Lt Bantian, Longgang District, Shenzhen, 518129, P.R.C			

### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China	
Post code:	518057	
Telephone:	+86 (0) 755 2601 2053	
Fax:	+86 (0) 755 2671 0594	
E-mail:	ee.shenzhen@sgs.com	

## 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

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# 3.4 General Description of EUT

EUT Description::	Smart Phone		
Model No.:	VOG-L04		
Trade Mark:	HUAWEI		
Hardware Version:	HL2VOGUEM		
Software Version:	9.1.0.42(C792E10R1P4)		
IEEE 802.11 WLAN Mode Supported	<ul> <li>⊠ 802.11a (20 MHz channel bandwidth);</li> <li>⊠ 802.11n (20 MHz channel bandwidth);</li> <li>⊠ 802.11n (40 MHz channel bandwidth);</li> <li>⊠ 802.11ac (20 MHz channel bandwidth);</li> <li>⊠ 802.11ac (40 MHz channel bandwidth);</li> <li>⊠ 802.11ac (80 MHz channel bandwidth),</li> <li>⊠ 802.11ac (160 MHz channel bandwidth),</li> </ul>		
Operation Frequency:	IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80/160): 5150MHz to 5250MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz		
Type of Modulation:	OFDM		
DFS mode:	☐Master ☐ Slave with radar detection ☐Slave without radar detection		
Sample Type:	⊠ Portable Device, ☐Module		
Antenna Type:	☐ External, ☑ Integrated		
Antenna Ports	⊠ Ant 1, ⊠ Ant 2, □ Ant 3		
Smart System	<ul><li>SISO (for 802.11a/n/ac),</li><li>MIMO (for 802.11n/ac),</li><li>□ Diversity (for 802.11a) : Tx &amp; Rx</li></ul>		
Antenna Gain:	Ant1: -2.9dBi ; Ant2:-1.2dBi		
Power Supply	⊠ AC/DC Adapter; ☐ PoE:; ☐ Other:		
EUT Power Supply:	Battery Model: HB486486ECW Rated capacity: 4100mAh Nominal Voltage: === +3.82V Charging Voltage: === +4.4V		
AC adaptor:	Model: HW-100400A00 Manufacturer: Huawei Technologies Co., Ltd. Input: 100-240V ~50/60Hz 1.2A  Output: 5V === 2A OR 9V === 2A OR 10V === 4A  Model: HW-100400U00 Manufacturer: Huawei Technologies Co., Ltd. Input: 100-240V ~50/60Hz 1.2A  Output: 5V === 2A OR 9V === 2A OR 10V === 4A  Model: HW-100400E00 Manufacturer: Huawei Technologies Co., Ltd. Input: 100-240V ~50/60Hz 1.2A  Output: 5V === 2A OR 9V === 2A OR 10V === 4A		

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Model: HW-100400B00 Manufacturer: Huawei Technologies Co., Ltd. Input: 100-240V ~50/60Hz 1.2A
Output: 5V === 2A OR 9V === 2A OR 10V === 4A

#### Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

#### For UNII Band I:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5180
IEEE 802.11a/n/ac 20MHz	The Middle channel	5220
	The Highest channel	5240
JEEE 000 44 m/o o 40 MJ I -	The Lowest channel	5190
IEEE 802.11n/ac 40MHz	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

#### For UNII Band II-A:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5260
IEEE 802.11a/n/ac 20MHz	The Middle channel	5300
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
IEEE 602.1 III/ac 40IVIAZ	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290
IEEE 802.11ac 160MHz	The Middle channel	5250

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#### For UNII Band II-C:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5500
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580
	The Highest channel	5700
	The Lowest channel	5510
IEEE 802.11n/ac 40MHz	The Middle channel	5550
	The Highest channel	5670
IFFF 000 44 a 2 00MHz	The Lowest channel	5530
IEEE 802.11ac 80MHz	The Highest channel	5710
IEEE 802.11ac 160MHz	The Middle channel	5570

#### For UNII Band III:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5745
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785
	The Highest channel	5825
IFFF 900 44n/oo 40MHz	The Lowest channel	5755
IEEE 802.11n/ac 40MHz	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

# 3.5 Test Environment and Mode

Operating Environmen	t:
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	101.32 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of
	data rate.

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# 4 Test results and Measurement Data

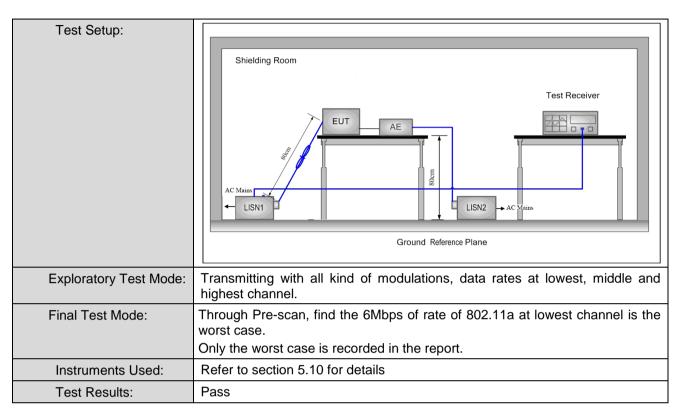
# 4.1 Antenna Requirement

Test Requirement: 47 CFR Part 15 Section 15.203						
The antenna is integrated ar	tenna and no consideration of replacement. The best case gain of the antenna is					
Ant1: -2 9dBi : Ant2:-1 2dBi						

# 4.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:	(MII-)	Limit (	dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the loga	rithm of the frequency.				
Test Procedure:	<ul> <li>* Decreases with the logarithm of the frequency.</li> <li>1) The mains terminal disturbance voltage test was conducted in a room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Li Impedance Stabilization Network) which provides a 50Ω/50μH + 5 impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground replane in the same way as the LISN 1 for the unit being measured. multiple socket outlet strip was used to connect multiple power cal single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m aborground reference plane. And for floor-standing arrangement, the E placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The frequency of the EUT shall be 0.4 m from the vertical ground reference plane vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other unthe EUT and associated equipment was at least 0.8 m from the LIS In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed accorded.</li> </ul>					

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#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

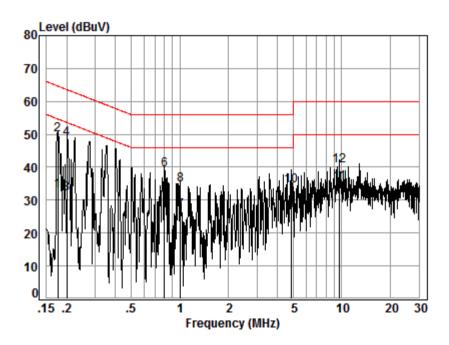


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#### Live Line:



Site : Shielding Room

Condition: Line Job No. : 10002

Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.66	23.09	32.77	54.68	-21.91	Average
2	0.18	0.02	9.66	40.15	49.83	64.68	-14.85	QP
3	0.20	0.02	9.66	22.23	31.91	53.58	-21.67	Average
4	0.20	0.02	9.66	39.05	48.73	63.58	-14.85	QP
5	0.80	0.08	9.74	21.37	31.19	46.00	-14.81	Average
6	0.80	0.08	9.74	29.35	39.17	56.00	-16.83	QP
7	1.00	0.09	9.74	16.87	26.70	46.00	-19.30	Average
8	1.00	0.09	9.74	24.98	34.81	56.00	-21.19	QP
9	4.85	0.17	9.74	16.51	26.42	46.00	-19.58	Average
10	4.85	0.17	9.74	24.34	34.25	56.00	-21.75	QP
11	9.71	0.17	9.84	25.12	35.13	50.00	-14.87	Average
12	9.71	0.17	9.84	30.41	40.42	60.00	-19.58	QP

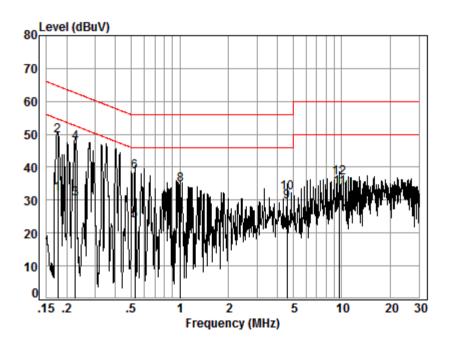


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#### Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 10002

Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.64	22.39	32.05	54.68	-22.63	Average
2	0.18	0.02	9.64	39.99	49.65	64.68	-15.03	QP
3	0.23	0.03	9.64	20.65	30.32	52.61	-22.29	Average
4	0.23	0.03	9.64	37.75	47.42	62.61	-15.19	QP
5	0.53	0.06	9.64	13.88	23.58	46.00	-22.42	Average
6	0.53	0.06	9.64	28.91	38.61	56.00	-17.39	QP
7	1.00	0.09	9.71	14.14	23.94	46.00	-22.06	Average
8	1.00	0.09	9.71	24.92	34.72	56.00	-21.28	QP
9	4.60	0.17	9.70	19.63	29.50	46.00	-16.50	Average
10	4.60	0.17	9.70	22.35	32.22	56.00	-23.78	QP
11	9.71	0.17	9.83	23.86	33.86	50.00	-16.14	Average
12	9.71	0.17	9.83	26.84	36.84	60.00	-23.16	QP

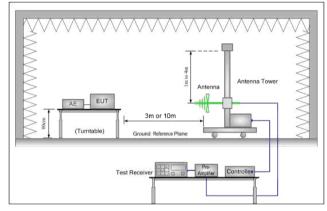
#### Remarks:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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# 4.3 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	



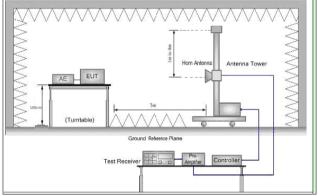


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

#### **Exploratory Test Mode:**

Transmitting with all kind of modulations, data rates.

## Final Test Mode:

Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40);

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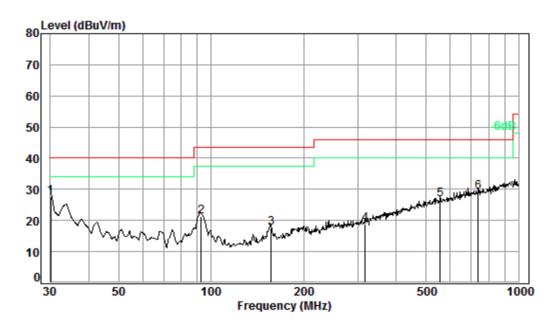
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	MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80) MCSAC0 of rate is the worst case of 802.11ac(HT160) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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## 4.3.1 Radiated emission below 1GHz

30MHz~1GHz (QP)					
Test mode:	Transmitting	Vertical			



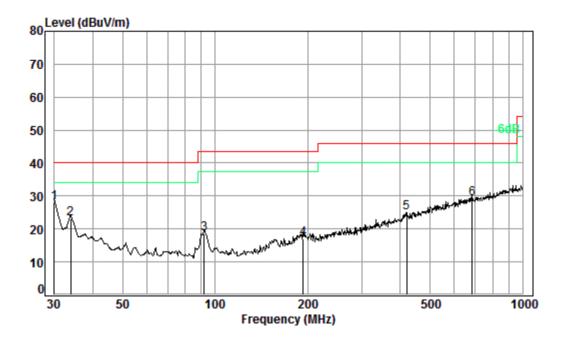
Condition: 3m VERTICAL

Job No. : 10002 Test mode: 5G

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
_								
1 pp	30.11	0.60	22.44	27.45	32.00	27.59	40.00	-12.41
2	92.79	1.13	13.36	27.36	34.09	21.22	43.50	-22.28
3	157.01	1.33	15.25	27.06	28.07	17.59	43.50	-25.91
4	316.59	1.95	20.12	26.74	23.49	18.82	46.00	-27.18
5	556.77	2.66	25.78	27.81	26.27	26.90	46.00	-19.10
6	739.66	3.03	28.15	27.72	25.88	29.34	46.00	-16.66

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Condition: 3m HORIZONTAL

Job No. : 10002 Test mode: 5G

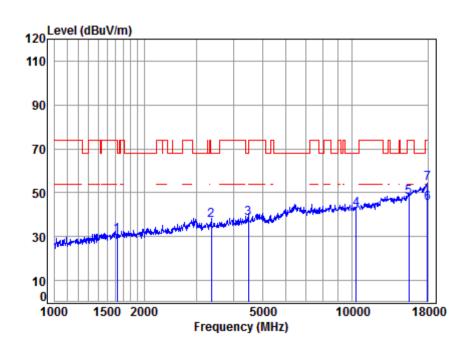
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.00	0.60	22.50	27.45	32.46	28.11	40.00	-11.89
2	33.92	0.60	20.37	27.44	29.72	23.25	40.00	-16.75
3	92.14	1.12	13.30	27.36	31.63	18.69	43.50	-24.81
4	193.77	1.39	16.32	26.92	26.33	17.12	43.50	-26.38
5	419.11	2.28	22.86	27.27	27.14	25.01	46.00	-20.99
6	684.75	2.87	27.71	27.81	26.44	29.21	46.00	-16.79

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### 4.3.2 Transmitter emission above 1Hz

### 4.3.2.1 CDD & MIMO

## 4.3.2.1.1 11A20\_CDD\_36\_Vertical



Site : chamber Condition: 3m VERTICAL

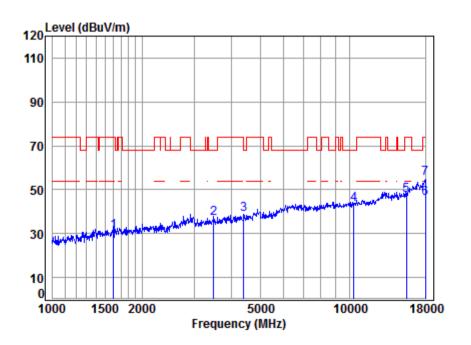
Job No : 10002

Mode : 5180 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	39.89	30.77	74.00	-43.23	peak
2	3366.778	6.34	31.50	41.94	41.41	37.31	68.20	-30.89	peak
3	4482.150	7.54	33.57	43.29	40.60	38.42	68.20	-29.78	peak
4	10360.000	11.19	37.76	37.97	31.55	42.53	68.20	-25.67	peak
5	15540.000	14.30	40.72	40.60	33.29	47.71	74.00	-26.29	peak
6	17948.050	16.08	43.44	40.21	25.82	45.13	54.00	-8.87	Average
7	17948.050	16.08	43.44	40.21	34.96	54.27	74.00	-19.73	peak

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## 4.3.2.1.2 11A20 CDD 36 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

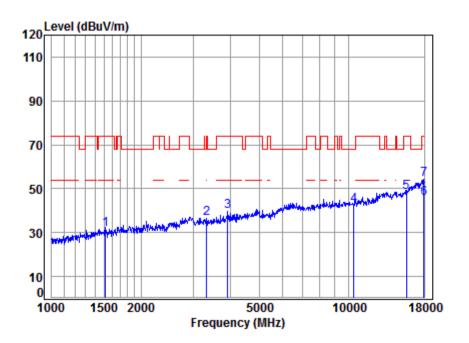
Job No : 10002

Mode : 5180 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1606.441	5.34	26.28	40.77	40.30	31.15	74.00	-42.85	peak
2	3485.601	6.45	31.68	42.10	40.82	36.85	68.20	-31.35	peak
3	4405.090	7.46	33.44	43.20	41.15	38.85	68.20	-29.35	peak
4	10360.000	11.19	37.76	37.97	32.49	43.47	68.20	-24.73	peak
5	15540.000	14.30	40.72	40.60	33.23	47.65	74.00	-26.35	peak
6	18000.000	16.13	43.50	40.20	26.63	46.06	54.00	-7.94	Average
7	18000.000	16.13	43.50	40.20	35.85	55.28	74.00	-18.72	peak

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## 4.3.2.1.3 11A20 CDD 44 Vertical



Site : chamber Condition: 3m VERTICAL

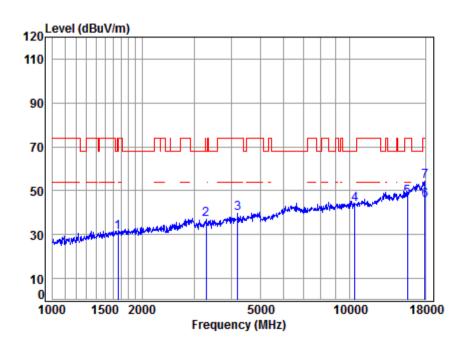
Job No : 10002

Mode : 5220 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5.45	25.89	40.72	40.96	31.58	74.00	-42.42	peak
2	3328.077	6.30	31.44	41.89	40.59	36.44	68.20	-31.76	peak
3	3912.809	6.89	32.53	42.65	42.74	39.51	74.00	-34.49	peak
4	10440.000	11.25	37.72	38.01	31.61	42.57	68.20	-25.63	peak
5	15660.000	14.48	40.80	40.58	33.71	48.41	74.00	-25.59	peak
6	17948.050	16.08	43.44	40.21	26.31	45.62	54.00	-8.38	Average
7	17948.050	16.08	43.44	40.21	34.87	54.18	74.00	-19.82	peak

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## 4.3.2.1.4 11A20 CDD 44 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

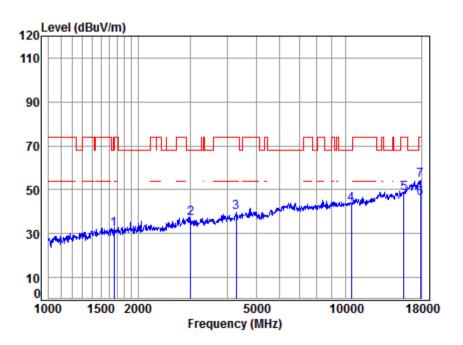
Job No : 10002

Mode : 5220 TX RSE Note : 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	5.27	26.52	40.81	39.84	30.82	74.00	-43.18	peak
2	3289.821	6.27	31.38	41.83	40.98	36.80	68.20	-31.40	peak
3	4206.011	7.23	33.08	42.99	42.17	39.49	74.00	-34.51	peak
4	10440.000	11.25	37.72	38.01	32.64	43.60	68.20	-24.60	peak
5	15660.000	14.48	40.80	40.58	32.44	47.14	74.00	-26.86	peak
6	17948.050	16.08	43.44	40.21	26.20	45.51	54.00	-8.49	Average
7	17948.050	16.08	43.44	40.21	35.09	54.40	74.00	-19.60	peak

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## 4.3.2.1.5 11A20 CDD 48 Vertical



Site : chamber Condition: 3m VERTICAL

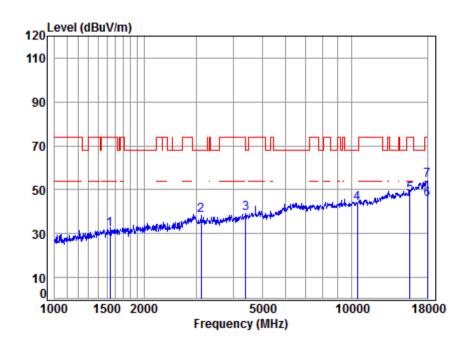
Job No : 10002

Mode : 5240 TX RSE Note : 5G WIFI 11A

	Frea			Preamp Factor					Remark
	1104	2033	raccor	i de coi	LCVCI	LCVCI	LINC	LIMIT	Kellidi K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	5.28	26.50	40.81	40.83	31.80	68.20	-36.40	peak
2	3007.868	5.99	30.91	41.41	41.48	36.97	68.20	-31.23	peak
3	4279.589	7.31	33.22	43.07	42.12	39.58	74.00	-34.42	peak
4	10480.000	11.28	37.71	38.03	32.25	43.21	68.20	-24.99	peak
5	15720.000	14.57	40.83	40.57	33.71	48.54	74.00	-25.46	peak
6	17896.250	16.02	43.38	40.22	26.82	46.00	54.00	-8.00	Average
7	17896.250	16.02	43.38	40.22	35.18	54.36	74.00	-19.64	peak

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## 4.3.2.1.6 11A20 CDD 48 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

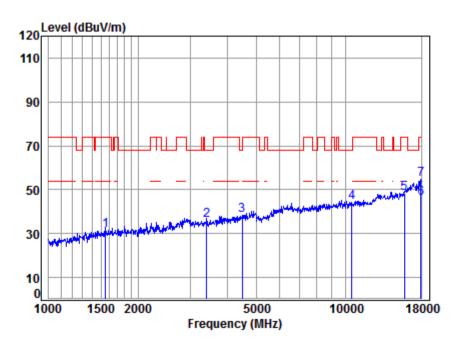
Job No : 10002

Mode : 5240 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			,						
1	1538.281	5.43	25.98	40.73	41.12	31.80	74.00	-42.20	peak
2	3114.025	6.10	31.09	41.58	42.65	38.26	68.20	-29.94	peak
3	4405.090	7.46	33.44	43.20	41.41	39.11	68.20	-29.09	peak
4	10480.000	11.28	37.71	38.03	33.00	43.96	68.20	-24.24	peak
5	15720.000	14.57	40.83	40.57	32.96	47.79	74.00	-26.21	peak
6	18000.000	16.13	43.50	40.20	26.26	45.69	54.00	-8.31	Average
7	18000.000	16.13	43.50	40.20	34.68	54.11	74.00	-19.89	peak

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## 4.3.2.1.7 11A20 CDD 52 Vertical



Site : chamber Condition: 3m VERTICAL

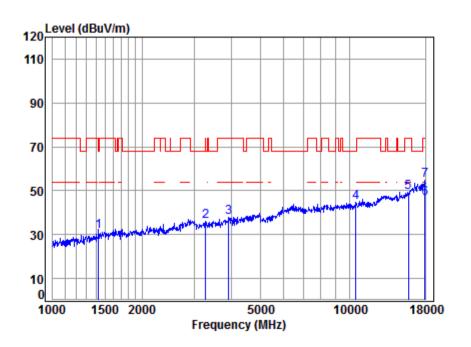
Job No : 10002

Mode : 5260 TX RSE Note : 5G WIFI 11A

	F			Preamp					DI-
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	5.41	26.06	40.74	40.92	31.65	74.00	-42.35	peak
2	3405.929	6.38	31.56	42.00	40.00	35.94	68.20	-32.26	peak
3	4482.150	7.54	33.57	43.29	40.32	38.14	68.20	-30.06	peak
4	10520.000	11.30	37.70	38.05	33.54	44.49	68.20	-23.71	peak
5	15780.000	14.66	40.87	40.56	33.42	48.39	74.00	-25.61	peak
6	17948.050	16.08	43.44	40.21	26.86	46.17	54.00	-7.83	Average
7	17948.050	16.08	43.44	40.21	35.35	54.66	74.00	-19.34	peak

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## 4.3.2.1.8 11A20 CDD 52 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

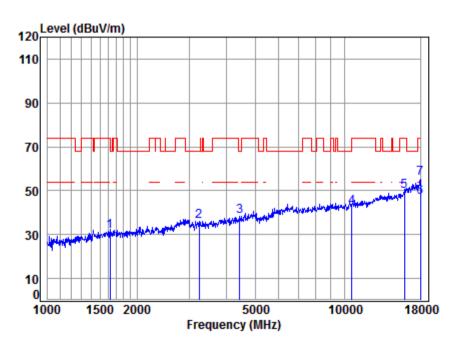
Job No : 10002

Mode : 5260 TX RSE Note : 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1426.916	5.24	25.53	40.66	41.43	31.54	74.00	-42.46	peak
2	3280.326	6.26	31.36	41.82	40.11	35.91	68.20	-32.29	peak
3	3924.135	6.91	32.56	42.66	41.23	38.04	74.00	-35.96	peak
4	10520.000	11.30	37.70	38.05	33.66	44.61	68.20	-23.59	peak
5	15780.000	14.66	40.87	40.56	34.18	49.15	74.00	-24.85	peak
6	17948.050	16.08	43.44	40.21	27.09	46.40	54.00	-7.60	Average
7	17948.050	16.08	43.44	40.21	35.27	54.58	74.00	-19.42	peak

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## 4.3.2.1.9 11A20 CDD 60 Vertical



Site : chamber Condition: 3m VERTICAL

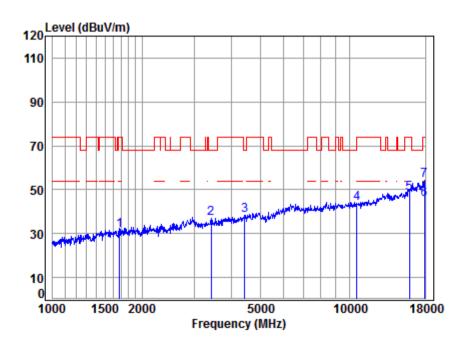
Job No : 10002

Mode : 5300 TX RSE Note : 5G WIFI 11A

	-			Preamp					ъ
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	40.46	31.34	74.00	-42.66	peak
2	3233.260	6.21	31.29	41.75	40.38	36.13	68.20	-32.07	peak
3	4443.453	7.50	33.50	43.25	40.38	38.13	68.20	-30.07	peak
4	10600.000	11.36	37.72	38.09	31.50	42.49	68.20	-25.71	peak
5	15900.000	14.84	40.94	40.54	34.53	49.77	74.00	-24.23	peak
6	18000.000	16.13	43.50	40.20	27.34	46.77	54.00	-7.23	Average
7	18000.000	16.13	43.50	40.20	36.08	55.51	74.00	-18.49	peak

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## 4.3.2.1.10 11A20 CDD 60 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

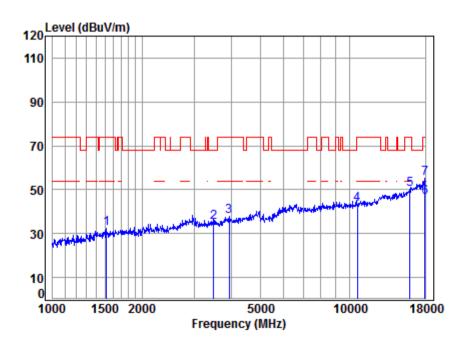
Job No : 10002

Mode : 5300 TX RSE Note : 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	40.47	31.48	74.00	-42.52	peak
2	3415.787	6.38	31.57	42.01	40.83	36.77	68.20	-31.43	peak
3	4443.453	7.50	33.50	43.25	40.64	38.39	68.20	-29.81	peak
4	10600.000	11.36	37.72	38.09	32.85	43.84	68.20	-24.36	peak
5	15900.000	14.84	40.94	40.54	33.31	48.55	74.00	-25.45	peak
6	17896.250	16.02	43.38	40.22	26.34	45.52	54.00	-8.48	Average
7	17896.250	16.02	43.38	40.22	35.01	54.19	74.00	-19.81	peak

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## 4.3.2.1.11 11A20 CDD 64 Vertical



Site : chamber Condition: 3m VERTICAL

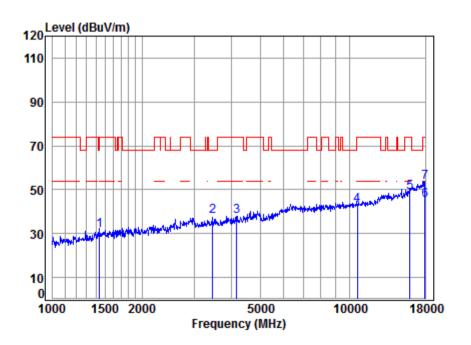
Job No : 10002

Mode : 5320 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5.45	25.89	40.72	41.67	32.29	74.00	-41.71	peak
2	3485.601	6.45	31.68	42.10	39.05	35.08	68.20	-33.12	peak
3	3935.493	6.92	32.58	42.68	41.03	37.85	74.00	-36.15	peak
4	10640.000	11.39	37.73	38.11	32.38	43.39	74.00	-30.61	peak
5	15960.000	14.93	40.98	40.53	34.60	49.98	74.00	-24.02	peak
6	17948.050	16.08	43.44	40.21	27.38	46.69	54.00	-7.31	Average
7	17948.050	16.08	43.44	40.21	35.72	55.03	74.00	-18.97	peak

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# 4.3.2.1.12 11A20\_CDD\_64\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

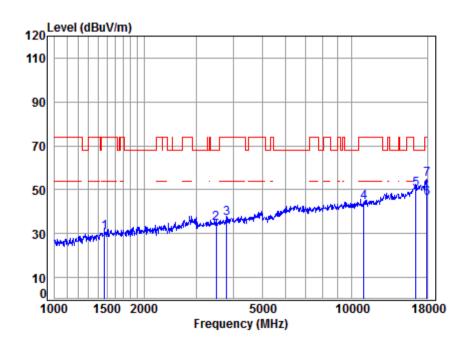
Job No : 10002

Mode : 5320 TX RSE Note : 5G WIFI 11A

	-			Preamp					
	Freq	Loss	Factor	Factor	Level	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1439.343	5.28	25.58	40.66	41.16	31.36	74.00	-42.64	peak
2	3465.510	6.43	31.65	42.08	41.68	37.68	68.20	-30.52	peak
3	4169.698	7.18	33.02	42.95	40.70	37.95	74.00	-36.05	peak
4	10640.000	11.39	37.73	38.11	31.98	42.99	74.00	-31.01	peak
5	15960.000	14.93	40.98	40.53	33.31	48.69	74.00	-25.31	peak
6	17948.050	16.08	43.44	40.21	26.02	45.33	54.00	-8.67	Average
7	17948.050	16.08	43.44	40.21	34.27	53.58	74.00	-20.42	peak

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# 4.3.2.1.13 11A20\_CDD\_100\_Vertical



Site : chamber Condition: 3m VERTICAL

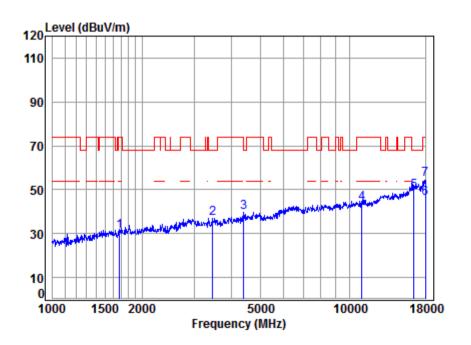
Job No : 10002

Mode : 5500 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1473.013	5.39	25.70	40.69	40.02	30.42	74.00	-43.58	peak
2	3495.691	6.46	31.69	42.12	38.43	34.46	68.20	-33.74	peak
3	3801.333	6.78	32.32	42.51	40.32	36.91	74.00	-37.09	peak
4	11000.000	11.63	37.80	38.27	33.03	44.19	74.00	-29.81	peak
5	16500.000	14.50	42.20	40.44	33.93	50.19	68.20	-18.01	peak
6	17948.050	16.08	43.44	40.21	26.86	46.17	54.00	-7.83	Average
7	17948.050	16.08	43.44	40.21	35.22	54.53	74.00	-19.47	peak

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# 4.3.2.1.14 11A20\_CDD\_100\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

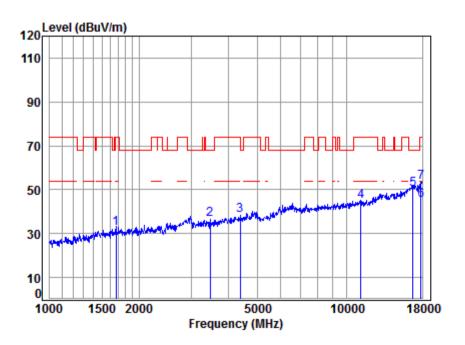
Job No : 10002

Mode : 5500 TX RSE Note : 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB		dBuV/m	dBuV/m	——dB	
	1112	u.	ub/ III	ub	aba*	abav, III	abav, III	u.	
1	1677.621	5.25	26.58	40.82	39.87	30.88	74.00	-43.12	peak
2	3455.508	6.42	31.63	42.06	40.97	36.96	68.20	-31.24	peak
3	4405.090	7.46	33.44	43.20	42.00	39.70	68.20	-28.50	peak
4	11000.000	11.63	37.80	38.27	32.59	43.75	74.00	-30.25	peak
5	16500.000	14.50	42.20	40.44	33.24	49.50	68.20	-18.70	peak
6	18000.000	16.13	43.50	40.20	26.60	46.03	54.00	-7.97	Average
7	18000.000	16.13	43.50	40.20	35.42	54.85	74.00	-19.15	peak

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## 4.3.2.1.15 11A20 CDD 116 Vertical



Site : chamber Condition: 3m VERTICAL

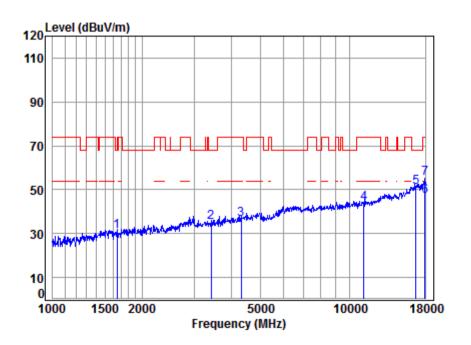
Job No : 10002

Mode : 5580 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1672.779	5.26	26.56	40.82	41.39	32.39	74.00	-41.61	peak
2	3475.541	6.44	31.66	42.09	40.62	36.63	68.20	-31.57	peak
3	4392.376	7.44	33.42	43.19	40.52	38.19	74.00	-35.81	peak
4	11160.000								-
	16740.000								•
6	17844.590	15.97	43.32	40.22	26.11	45.18	54.00	-8.82	Average
7	17844.590	15.97	43.32	40.22	34.46	53.53	74.00	-20.47	peak

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## 4.3.2.1.16 11A20 CDD 116 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

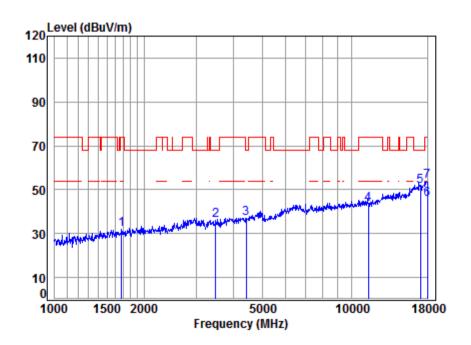
Job No : 10002

Mode : 5580 TX RSE Note : 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	5.29	26.46	40.80	39.94	30.89	68.20	-37.31	peak
2	3415.787	6.38	31.57	42.01	39.14	35.08	68.20	-33.12	peak
3	4316.859	7.36	33.28	43.11	38.88	36.41	74.00	-37.59	peak
4	11160.000	11.80	37.83	38.34	32.66	43.95	74.00	-30.05	peak
5	16740.000	15.57	42.39	40.40	33.60	51.16	68.20	-17.04	peak
6	17948.050	16.08	43.44	40.21	27.51	46.82	54.00	-7.18	Average
7	17948.050	16.08	43.44	40.21	35.93	55.24	74.00	-18.76	peak

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## 4.3.2.1.17 11A20 CDD 140 Vertical



Site : chamber Condition: 3m VERTICAL

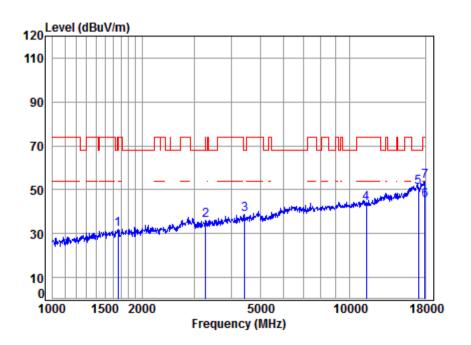
Job No : 10002

Mode : 5700 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			,				,		
1	1682.477	5.25	26.60	40.82	40.77	31.80	74.00	-42.20	peak
2	3485.601	6.45	31.68	42.10	40.13	36.16	68.20	-32.04	peak
3	4417.841	7.47	33.46	43.22	39.33	37.04	68.20	-31.16	peak
4	11400.000	12.04	37.88	38.45	31.91	43.38	74.00	-30.62	peak
5	17100.000	16.49	42.66	40.34	32.73	51.54	68.20	-16.66	peak
6	18000.000	16.13	43.50	40.20	26.13	45.56	54.00	-8.44	Average
7	18000.000	16.13	43.50	40.20	34.42	53.85	74.00	-20.15	peak

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## 4.3.2.1.18 11A20 CDD 140 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

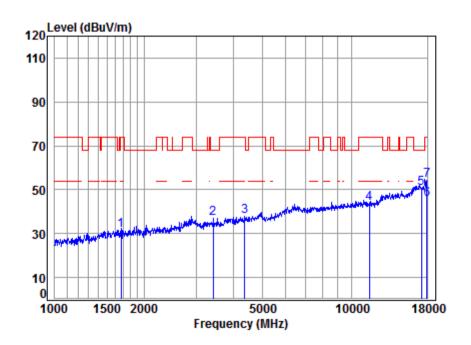
Job No : 10002

Mode : 5700 TX RSE Note : 5G WIFI 11A

	Гпол			Preamp Factor					Pomonic
	rreq	LUSS	ractor	ractor	rever	rever	Line	LIMIT	Kelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	5.28	26.50	40.81	41.00	31.97	68.20	-36.23	neak
2	3270.858								•
3	4443.453	7.50	33.50	43.25	41.02	38.77	68.20	-29.43	peak
4	11400.000	12.04	37.88	38.45	32.38	43.85	74.00	-30.15	peak
5	17100.000	16.49	42.66	40.34	32.39	51.20	68.20	-17.00	peak
6	17948.050	16.08	43.44	40.21	25.88	45.19	54.00	-8.81	Average
7	17948.050	16.08	43.44	40.21	34.32	53.63	74.00	-20.37	peak

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## 4.3.2.1.19 11A20 CDD 149 Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5745 TX RSE Note : 5G WIFI 11A

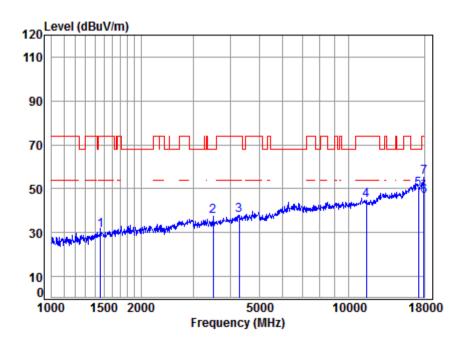
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	40.82	40.47	31.47	74.00	-42.53	peak
2	3425.675	6.39	31.59	42.02	40.86	36.82	68.20	-31.38	peak
3	4367.058	7.41	33.37	43.16	40.05	37.67	74.00	-36.33	peak
4	11490.000	12.13	37.90	38.49	32.35	43.89	74.00	-30.11	peak
5	17235.000	16.18	42.74	40.32	31.84	50.44	68.20	-17.76	peak
6	17948.050	16.08	43.44	40.21	26.44	45.75	54.00	-8.25	Average
7	17948.050	16.08	43.44	40.21	34.76	54.07	74.00	-19.93	peak
									-

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# 4.3.2.1.20 11A20 CDD 149 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

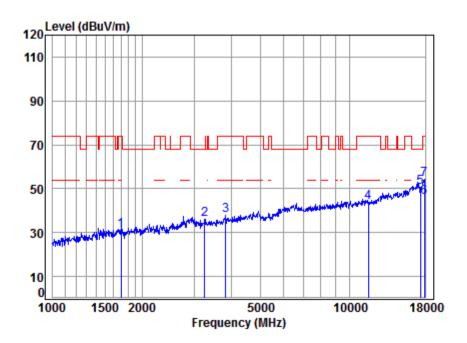
Job No : 10002

Mode : 5745 TX RSE Note : 5G WIFI 11A

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	5.35	25.65	40.68	40.76	31.08	74.00	-42.92	peak
2	3495.691	6.46	31.69	42.12	41.24	37.27	68.20	-30.93	peak
3	4291.977	7.33	33.24	43.08	40.45	37.94	74.00	-36.06	peak
4	11490.000	12.13	37.90	38.49	33.16	44.70	74.00	-29.30	peak
5	17235.000	16.18	42.74	40.32	31.27	49.87	68.20	-18.33	peak
6	17948.050	16.08	43.44	40.21	27.44	46.75	54.00	-7.25	Average
7	17948.050	16.08	43.44	40.21	35.96	55.27	74.00	-18.73	peak

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# 4.3.2.1.21 11A20\_CDD\_157\_Vertical



Site : chamber Condition: 3m VERTICAL

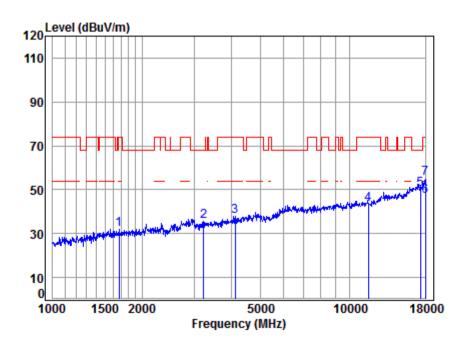
Job No : 10002

Mode : 5785 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	40.83	40.00	31.06	74.00	-42.94	peak
2	3252.005	6.23	31.32	41.78	40.17	35.94	68.20	-32.26	peak
3	3834.438	6.82	32.38	42.55	41.07	37.72	74.00	-36.28	peak
4	11570.000	12.17	37.87	38.52	32.39	43.91	74.00	-30.09	peak
5	17355.000	15.92	42.81	40.30	32.20	50.63	68.20	-17.57	peak
6	17896.250	16.02	43.38	40.22	26.94	46.12	54.00	-7.88	Average
7	17896.250	16.02	43.38	40.22	35.08	54.26	74.00	-19.74	peak

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# 4.3.2.1.22 11A20 CDD 157 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

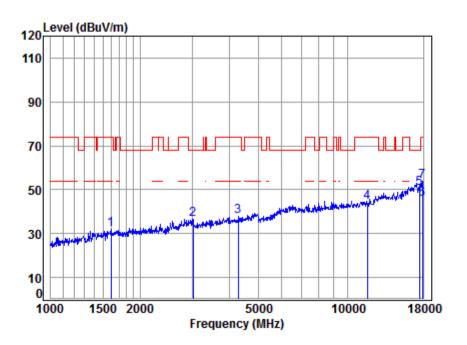
Job No : 10002

Mode : 5785 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1672.779	5.26	26.56	40.82	40.91	31.91	74.00	-42.09	peak
2	3223.928	6.20	31.27	41.74	39.73	35.46	68.20	-32.74	peak
3	4121.768	7.13	32.93	42.89	40.50	37.67	74.00	-36.33	peak
4	11570.000	12.17	37.87	38.52	31.64	43.16	74.00	-30.84	peak
5	17355.000	15.92	42.81	40.30	31.70	50.13	68.20	-18.07	peak
6	18000.000	16.13	43.50	40.20	27.50	46.93	54.00	-7.07	Average
7	18000.000	16.13	43.50	40.20	35.78	55.21	74.00	-18.79	peak

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# 4.3.2.1.23 11A20 CDD 165 Vertical



Site : chamber Condition: 3m VERTICAL

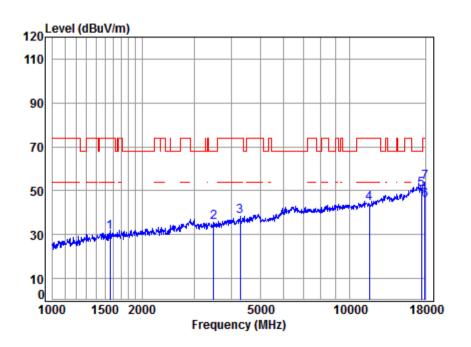
Job No : 10002

Mode : 5825 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//	ID 1//		
	MHz	dB	aB/m	dB	aBuv	aBuv/m	aBuv/m	dB	
1	1597.181	5.35	26.24	40.77	41.15	31.97	74.00	-42.03	peak
2	3016.575	6.00	30.93	41.43	40.90	36.40	68.20	-31.80	peak
3	4291.977	7.33	33.24	43.08	40.31	37.80	74.00	-36.20	peak
4	11650.000	12.20	37.84	38.55	32.78	44.27	74.00	-29.73	peak
5	17475.000	15.65	42.89	40.28	32.23	50.49	68.20	-17.71	peak
6	17896.250	16.02	43.38	40.22	26.28	45.46	54.00	-8.54	Average
7	17896.250	16.02	43.38	40.22	34.72	53.90	74.00	-20.10	peak

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# 4.3.2.1.24 11A20\_CDD\_165\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

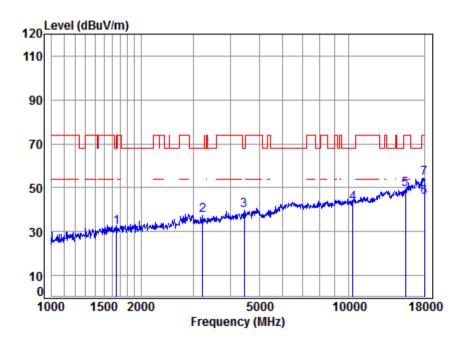
Job No : 10002

Mode : 5825 TX RSE Note : 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	5.40	26.08	40.75	40.15	30.88	74.00	-43.12	peak
2	3485.601	6.45	31.68	42.10	39.63	35.66	68.20	-32.54	peak
3	4291.977	7.33	33.24	43.08	40.98	38.47	74.00	-35.53	peak
4	11650.000	12.20	37.84	38.55	32.73	44.22	74.00	-29.78	peak
5	17475.000	15.65	42.89	40.28	32.30	50.56	68.20	-17.64	peak
6	17948.050	16.08	43.44	40.21	26.27	45.58	54.00	-8.42	Average
7	17948.050	16.08	43.44	40.21	34.74	54.05	74.00	-19.95	peak

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# 4.3.2.1.25 11N20 MIMO 36 Vertical



Site : chamber Condition: 3m VERTICAL

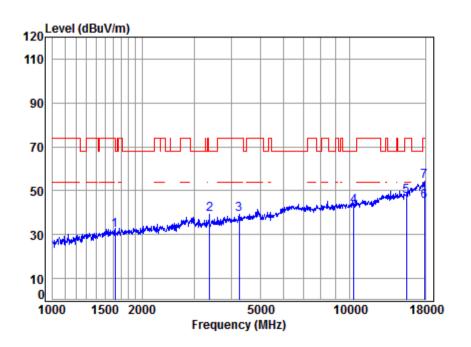
Job No : 10002

Mode : 5180 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	5.28	26.48	40.80	41.03	31.99	68.20	-36.21	peak
2	3223.928	6.20	31.27	41.74	41.48	37.21	68.20	-30.99	peak
3	4456.315	7.51	33.53	43.26	41.89	39.67	68.20	-28.53	peak
4	10360.000	11.19	37.76	37.97	32.05	43.03	68.20	-25.17	peak
5	15540.000	14.30	40.72	40.60	34.76	49.18	74.00	-24.82	peak
6	18000.000	16.13	43.50	40.20	26.14	45.57	54.00	-8.43	Average
7	18000.000	16.13	43.50	40.20	34.85	54.28	74.00	-19.72	peak

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# 4.3.2.1.26 11N20 MIMO 36 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

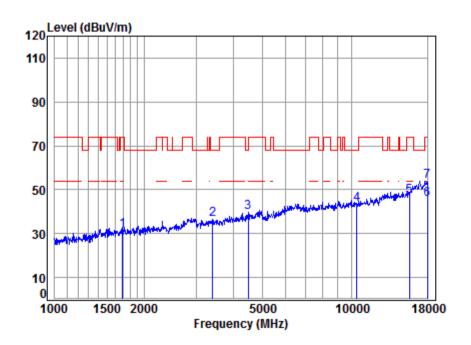
Job No : 10002

Mode : 5180 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	41.16	32.04	74.00	-41.96	peak
2	3376.523	6.35	31.51	41.96	43.14	39.04	68.20	-29.16	peak
3	4254.921	7.28	33.17	43.04	41.66	39.07	74.00	-34.93	peak
4	10360.000	11.19	37.76	37.97	32.09	43.07	68.20	-25.13	peak
5	15540.000	14.30	40.72	40.60	33.18	47.60	74.00	-26.40	peak
6	17896.250	16.02	43.38	40.22	26.13	45.31	54.00	-8.69	Average
7	17896.250	16.02	43.38	40.22	35.15	54.33	74.00	-19.67	peak

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# 4.3.2.1.27 11N20 MIMO 44 Vertical



Site : chamber Condition: 3m VERTICAL

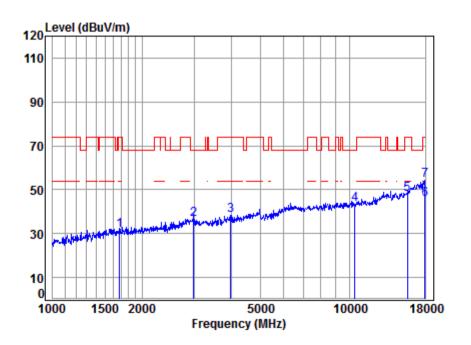
Job No : 10002

Mode : 5220 TX RSE Note : 5G WIFI 11N20

	Freq	Cable Loss		Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1692.231	5.24	26.64	40.83	40.60	31.65	74.00	-42.35	peak
2	3405.929	6.38	31.56	42.00	40.71	36.65	68.20	-31.55	peak
3	4495.125	7.55	33.59	43.30	42.02	39.86	68.20	-28.34	peak
4	10440.000	11.25	37.72	38.01	32.32	43.28	68.20	-24.92	peak
5	15660.000	14.48	40.80	40.58	32.28	46.98	74.00	-27.02	peak
6	18000.000	16.13	43.50	40.20	26.08	45.51	54.00	-8.49	Average
7	18000.000	16.13	43.50	40.20	34.43	53.86	74.00	-20.14	peak

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# 4.3.2.1.28 11N20 MIMO 44 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5220 TX RSE Note : 5G WIFI 11N20

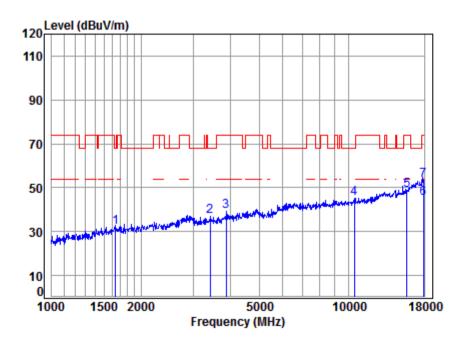
	Frea			Preamp Factor					Remark
	MHz	dB		dB		dBuV/m			
1	1682.477	5.25	26.60	40.82	40.26	31.29	74.00	-42.71	peak
2	2990.531	5.97	30.86	41.40	41.26	36.69	68.20	-31.51	peak
3	3981.257	6.96	32.66	42.73	41.65	38.54	74.00	-35.46	peak
4	10440.000	11.25	37.72	38.01	32.38	43.34	68.20	-24.86	peak
5	15660.000	14.48	40.80	40.58	33.14	47.84	74.00	-26.16	peak
6	17948.050	16.08	43.44	40.21	26.49	45.80	54.00	-8.20	Average
7	17948.050	16.08	43.44	40.21	34.78	54.09	74.00	-19.91	peak

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# 4.3.2.1.29 11N20 MIMO 48 Vertical



Site : chamber Condition: 3m VERTICAL

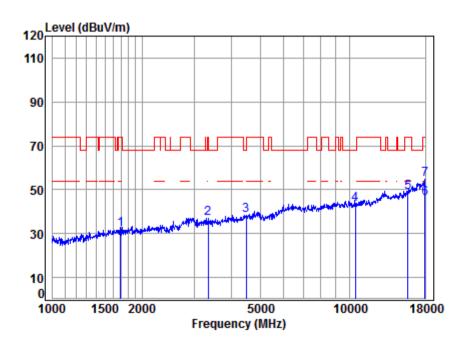
Job No : 10002

Mode : 5240 TX RSE Note : 5G WIFI 11N20

	Frea			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	5.30	26.44	40.80	40.84	31.78	68.20	-36.42	peak
2	3425.675	6.39	31.59	42.02	40.79	36.75	68.20	-31.45	peak
3	3879.027	6.86	32.47	42.61	42.64	39.36	74.00	-34.64	peak
4	10480.000	11.28	37.71	38.03	34.27	45.23	68.20	-22.97	peak
5	15720.000	14.57	40.83	40.57	34.08	48.91	74.00	-25.09	peak
6	17896.250	16.02	43.38	40.22	25.89	45.07	54.00	-8.93	Average
7	17896.250	16.02	43.38	40.22	34.40	53.58	74.00	-20.42	peak

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# 4.3.2.1.30 11N20 MIMO 48 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

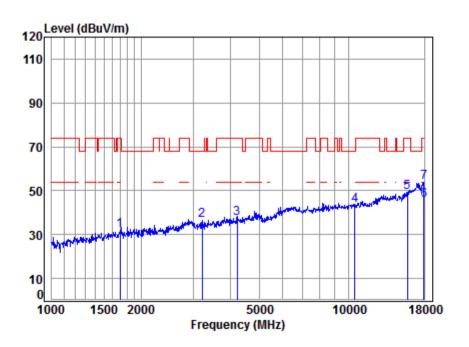
Job No : 10002

Mode : 5240 TX RSE Note : 5G WIFI 11N20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	5.24	26.64	40.83	40.97	32.02	74.00	-41.98	peak
2	3337.710	6.31	31.45	41.90	41.04	36.90	74.00	-37.10	peak
3	4495.125	7.55	33.59	43.30	40.65	38.49	68.20	-29.71	peak
4	10480.000	11.28	37.71	38.03	32.47	43.43	68.20	-24.77	peak
5	15720.000	14.57	40.83	40.57	33.83	48.66	74.00	-25.34	peak
6	17948.050	16.08	43.44	40.21	26.87	46.18	54.00	-7.82	Average
7	17948.050	16.08	43.44	40.21	35.34	54.65	74.00	-19.35	peak

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# 4.3.2.1.31 11N20 MIMO 52 Vertical



Site : chamber Condition: 3m VERTICAL

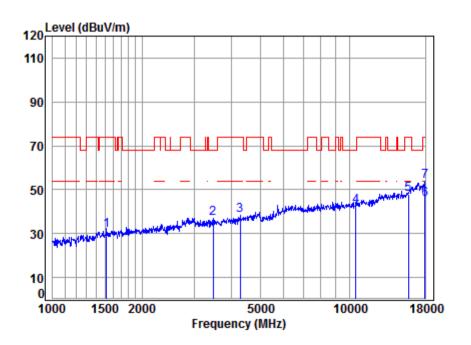
Job No : 10002

Mode : 5260 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	40.83	40.86	31.92	74.00	-42.08	peak
2	3214.623	6.20	31.26	41.72	40.67	36.41	68.20	-31.79	peak
3	4218.186	7.24	33.11	43.00	39.86	37.21	74.00	-36.79	peak
4	10520.000	11.30	37.70	38.05	32.25	43.20	68.20	-25.00	peak
5	15780.000	14.66	40.87	40.56	34.18	49.15	74.00	-24.85	peak
6	17948.050	16.08	43.44	40.21	26.20	45.51	54.00	-8.49	Average
7	17948.050	16.08	43.44	40.21	34.72	54.03	74.00	-19.97	peak

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# 4.3.2.1.32 11N20 MIMO 52 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

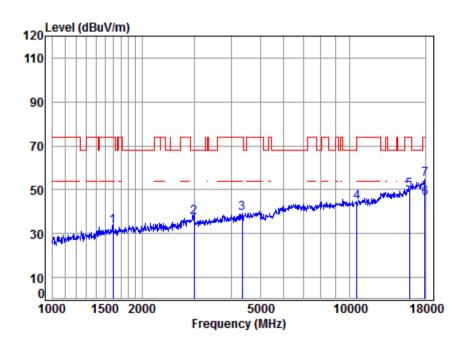
Job No : 10002

Mode : 5260 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB		dB					
1	1520.598	5.45	25.89	40.72	40.78	31.40	74.00	-42.60	peak
2	3475.541	6.44	31.66	42.09	40.80	36.81	68.20	-31.39	peak
3	4291.977	7.33	33.24	43.08	40.85	38.34	74.00	-35.66	peak
4	10520.000	11.30	37.70	38.05	31.31	42.26	68.20	-25.94	peak
5	15780.000	14.66	40.87	40.56	33.14	48.11	74.00	-25.89	peak
6	17948.050	16.08	43.44	40.21	26.14	45.45	54.00	-8.55	Average
7	17948.050	16.08	43.44	40.21	34.55	53.86	74.00	-20.14	peak

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# 4.3.2.1.33 11N20 MIMO 60 Vertical



Site : chamber Condition: 3m VERTICAL

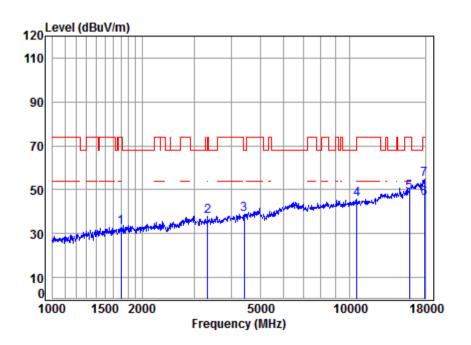
Job No : 10002

Mode : 5300 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	40.77	42.39	33.21	74.00	-40.79	peak
2	2999.187	5.98	30.90	41.40	42.16	37.64	68.20	-30.56	peak
3	4354.454	7.40	33.35	43.15	41.44	39.04	74.00	-34.96	peak
4	10600.000	11.36	37.72	38.09	33.35	44.34	68.20	-23.86	peak
5	15900.000	14.84	40.94	40.54	34.41	49.65	74.00	-24.35	peak
6	17948.050	16.08	43.44	40.21	26.99	46.30	54.00	-7.70	Average
7	17948.050	16.08	43.44	40.21	35.46	54.77	74.00	-19.23	peak

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# 4.3.2.1.34 11N20\_MIMO\_60\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

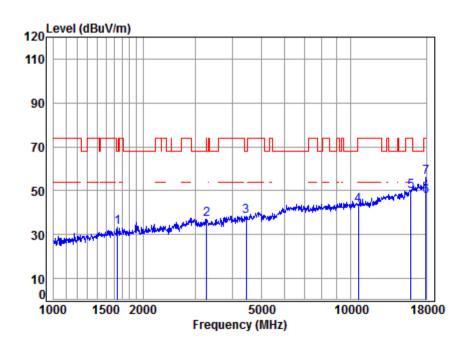
Job No : 10002

Mode : 5300 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.83	41.79	32.87	74.00	-41.13	peak
2	3328.077	6.30	31.44	41.89	41.79	37.64	68.20	-30.56	peak
3	4417.841	7.47	33.46	43.22	41.28	38.99	68.20	-29.21	peak
4	10600.000	11.36	37.72	38.09	34.79	45.78	68.20	-22.42	peak
5	15900.000	14.84	40.94	40.54	33.38	48.62	74.00	-25.38	peak
6	17896.250	16.02	43.38	40.22	26.92	46.10	54.00	-7.90	Average
7	17896.250	16.02	43.38	40.22	35.38	54.56	74.00	-19.44	peak

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# 4.3.2.1.35 11N20 MIMO 64 Vertical



Site : chamber Condition: 3m VERTICAL

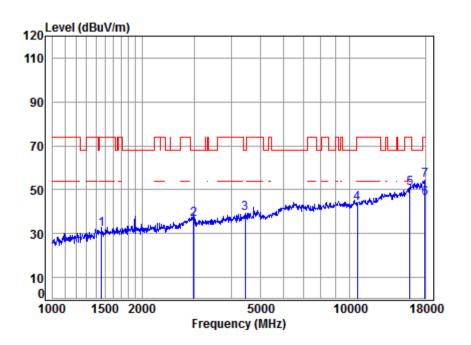
Job No : 10002

Mode : 5320 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1644.019	5.30	26.44	40.80	42.38	33.32	68.20	-34.88	peak
2	3280.326	6.26	31.36	41.82	41.16	36.96	68.20	-31.24	peak
3	4456.315	7.51	33.53	43.26	40.71	38.49	68.20	-29.71	peak
4	10640.000	11.39	37.73	38.11	32.23	43.24	74.00	-30.76	peak
5	15960.000	14.93	40.98	40.53	34.30	49.68	74.00	-24.32	peak
6	17948.050	16.08	43.44	40.21	28.33	47.64	54.00	-6.36	Average
7	17948.050	16.08	43.44	40.21	36.66	55.97	74.00	-18.03	peak

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# 4.3.2.1.36 11N20\_MIMO\_64\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

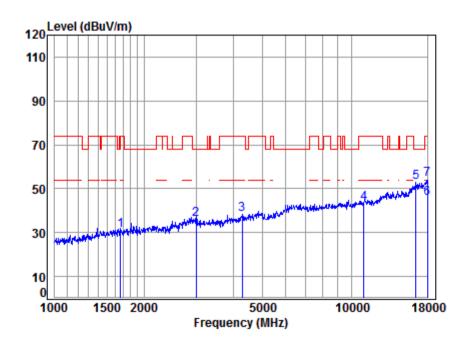
Job No : 10002

Mode : 5320 TX RSE Note : 5G WIFI 11N20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	5.35	25.65	40.68	41.58	31.90	74.00	-42.10	peak
2	2990.531	5.97	30.86	41.40	41.20	36.63	68.20	-31.57	peak
3	4456.315	7.51	33.53	43.26	41.26	39.04	68.20	-29.16	peak
4	10640.000	11.39	37.73	38.11	32.69	43.70	74.00	-30.30	peak
5	15960.000	14.93	40.98	40.53	35.26	50.64	74.00	-23.36	peak
6	17948.050	16.08	43.44	40.21	26.63	45.94	54.00	-8.06	Average
7	17948.050	16.08	43.44	40.21	35.17	54.48	74.00	-19.52	peak

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# 4.3.2.1.37 11N20\_MIMO\_100\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5500 TX RSE Note : 5G WIFI 11N20

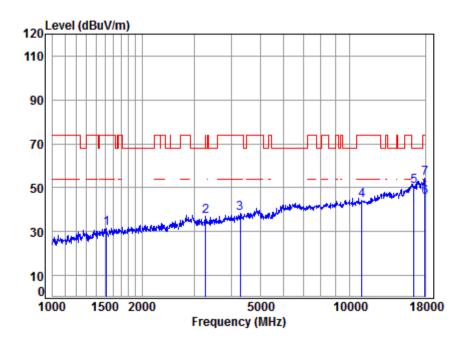
	-			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	40.81	39.90	30.90	74.00	-43.10	peak
2	2999.187	5.98	30.90	41.40	40.58	36.06	68.20	-32.14	peak
3	4279.589	7.31	33.22	43.07	41.02	38.48	74.00	-35.52	peak
4	11000.000	11.63	37.80	38.27	32.00	43.16	74.00	-30.84	peak
5	16500.000	14.50	42.20	40.44	36.80	53.06	68.20	-15.14	peak
6	18000.000	16.13	43.50	40.20	26.12	45.55	54.00	-8.45	Average
7	18000.000	16.13	43.50	40.20	34.64	54.07	74.00	-19.93	peak

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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# 4.3.2.1.38 11N20 MIMO 100 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

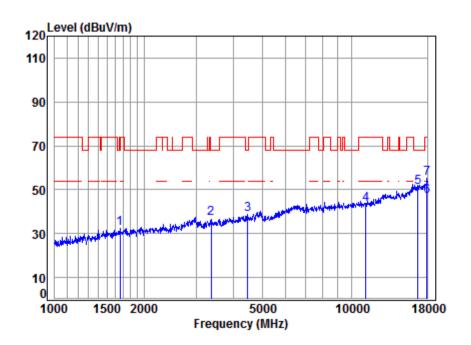
Job No : 10002

Mode : 5500 TX RSE Note : 5G WIFI 11N20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1516.210	5.46	25.87	40.72	40.92	31.53	74.00	-42.47	peak
2	3270.858	6.25	31.35	41.81	41.17	36.96	68.20	-31.24	peak
3	4279.589	7.31	33.22	43.07	40.81	38.27	74.00	-35.73	peak
4	11000.000	11.63	37.80	38.27	33.16	44.32	74.00	-29.68	peak
5	16500.000	14.50	42.20	40.44	34.22	50.48	68.20	-17.72	peak
6	17948.050	16.08	43.44	40.21	26.51	45.82	54.00	-8.18	Average
7	17948.050	16.08	43.44	40.21	35.00	54.31	74.00	-19.69	peak

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# 4.3.2.1.39 11N20 MIMO 116 Vertical



Site : chamber Condition: 3m VERTICAL

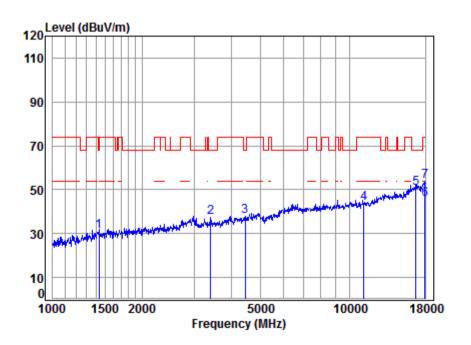
Job No : 10002

Mode : 5580 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1658.337	5.28	26.50	40.81	41.35	32.32	68.20	-35.88	peak
2	3366.778	6.34	31.50	41.94	41.06	36.96	68.20	-31.24	peak
3	4469.214	7.53	33.55	43.27	40.82	38.63	68.20	-29.57	peak
4	11160.000	11.80	37.83	38.34	32.08	43.37	74.00	-30.63	peak
5	16740.000	15.57	42.39	40.40	33.47	51.03	68.20	-17.17	peak
6	17948.050	16.08	43.44	40.21	27.68	46.99	54.00	-7.01	Average
7	17948.050	16.08	43.44	40.21	35.77	55.08	74.00	-18.92	peak

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# 4.3.2.1.40 11N20\_MIMO\_116\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

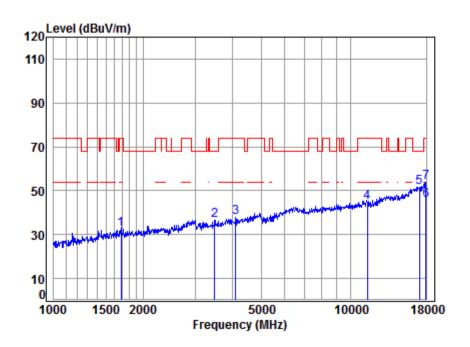
Job No : 10002

Mode : 5580 TX RSE Note : 5G WIFI 11N20

	Frea			Preamp Factor					Remark
	11.04	2033	raccor	i de coi	LCVCI	LCVCI	LINC	LIMIT	Kellidi K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1431 047	F 26	25 54	40.00	40.03	24 07	CO 20	27 42	
1	1431.047	5.26	25.54	40.66	40.93	31.07	68.20	-3/.13	реак
2	3405.929	6.38	31.56	42.00	41.69	37.63	68.20	-30.57	peak
3	4456.315	7.51	33.53	43.26	40.18	37.96	68.20	-30.24	peak
4	11160.000	11.80	37.83	38.34	32.69	43.98	74.00	-30.02	peak
5	16740.000	15.57	42.39	40.40	32.86	50.42	68.20	-17.78	peak
6	17948.050	16.08	43.44	40.21	26.11	45.42	54.00	-8.58	Average
7	17948.050	16.08	43.44	40.21	34.74	54.05	74.00	-19.95	peak

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# 4.3.2.1.41 11N20 MIMO 140 Vertical



Site : chamber Condition: 3m VERTICAL

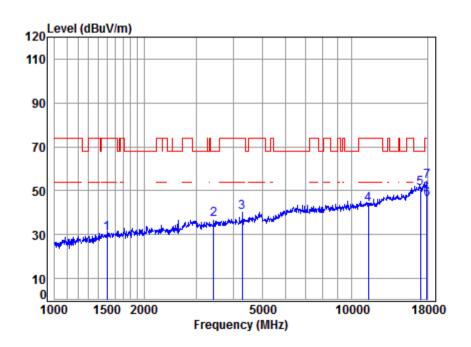
Job No : 10002

Mode : 5700 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	5.24	26.62	40.82	41.27	32.31	74.00	-41.69	peak
2	3485.601	6.45	31.68	42.10	40.65	36.68	68.20	-31.52	peak
3	4109.872	7.11	32.91	42.88	40.91	38.05	74.00	-35.95	peak
4	11400.000	12.04	37.88	38.45	33.38	44.85	74.00	-29.15	peak
5	17100.000	16.49	42.66	40.34	32.71	51.52	68.20	-16.68	peak
6	17948.050	16.08	43.44	40.21	26.26	45.57	54.00	-8.43	Average
7	17948.050	16.08	43.44	40.21	34.74	54.05	74.00	-19.95	peak

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# 4.3.2.1.42 11N20 MIMO 140 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

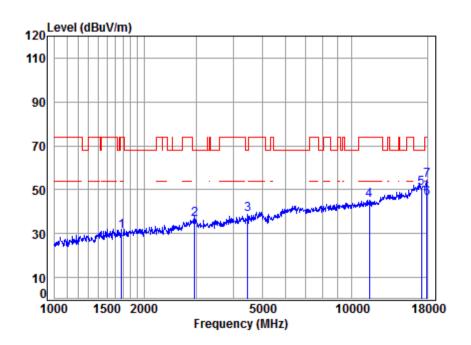
Job No : 10002

Mode : 5700 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1503.119	5.48	25.81	40.71	39.91	30.49	74.00	-43.51	peak
2	3435.590	6.40	31.60	42.04	41.10	37.06	68.20	-31.14	peak
3	4291.977	7.33	33.24	43.08	42.71	40.20	74.00	-33.80	peak
4	11400.000	12.04	37.88	38.45	32.21	43.68	74.00	-30.32	peak
5	17100.000	16.49	42.66	40.34	32.36	51.17	68.20	-17.03	peak
6	17948.050	16.08	43.44	40.21	26.55	45.86	54.00	-8.14	Average
7	17948.050	16.08	43.44	40.21	34.92	54.23	74.00	-19.77	peak

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# 4.3.2.1.43 11N20 MIMO 149 Vertical



Site : chamber Condition: 3m VERTICAL

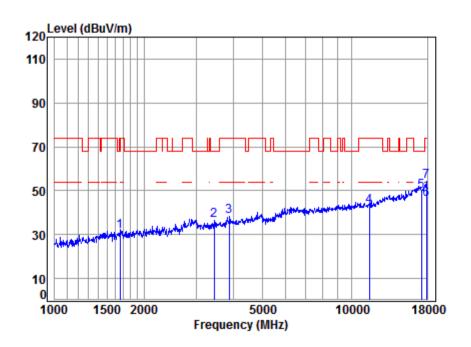
Job No : 10002

Mode : 5745 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	40.09	31.10	74.00	-42.90	peak
2	2964.712	5.96	30.76	41.39	40.99	36.32	68.20	-31.88	peak
3	4469.214	7.53	33.55	43.27	40.88	38.69	68.20	-29.51	peak
4	11490.000	12.13	37.90	38.49	33.41	44.95	74.00	-29.05	peak
5	17235.000	16.18	42.74	40.32	32.21	50.81	68.20	-17.39	peak
6	17948.050	16.08	43.44	40.21	26.69	46.00	54.00	-8.00	Average
7	17948.050	16.08	43.44	40.21	35.08	54.39	74.00	-19.61	peak

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# 4.3.2.1.44 11N20\_MIMO\_149\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

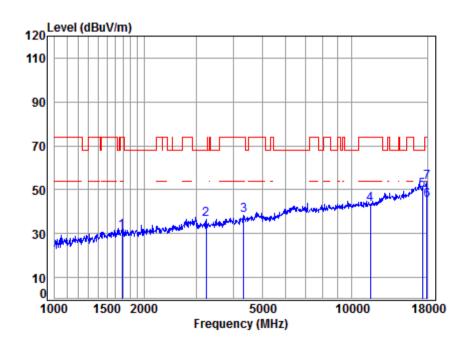
Job No : 10002

Mode : 5745 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	5.27	26.52	40.81	40.35	31.33	74.00	-42.67	peak
2	3445.535	6.41	31.62	42.05	40.47	36.45	68.20	-31.75	peak
3	3879.027	6.86	32.47	42.61	41.40	38.12	74.00	-35.88	peak
4	11490.000	12.13	37.90	38.49	31.49	43.03	74.00	-30.97	peak
5	17235.000	16.18	42.74	40.32	31.36	49.96	68.20	-18.24	peak
6	17896.250	16.02	43.38	40.22	26.89	46.07	54.00	-7.93	Average
7	17896.250	16.02	43.38	40.22	35.17	54.35	74.00	-19.65	peak

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# 4.3.2.1.45 11N20 MIMO 157 Vertical



Site : chamber Condition: 3m VERTICAL

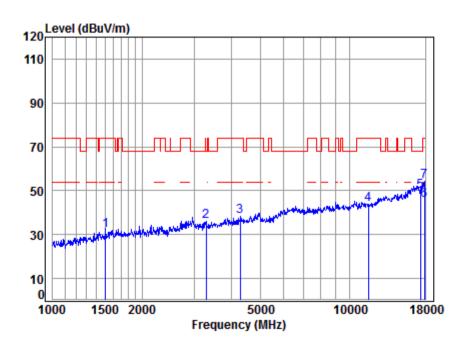
Job No : 10002

Mode : 5785 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	5.24	26.62	40.82	40.18	31.22	74.00	-42.78	peak
2	3242.619	6.22	31.30	41.77	40.78	36.53	68.20	-31.67	peak
3	4341.886	7.38	33.33	43.14	40.64	38.21	74.00	-35.79	peak
4	11570.000	12.17	37.87	38.52	31.77	43.29	74.00	-30.71	peak
5	17355.000	15.92	42.81	40.30	31.46	49.89	68.20	-18.31	peak
6	17948.050	16.08	43.44	40.21	25.85	45.16	54.00	-8.84	Average
7	17948.050	16.08	43.44	40.21	34.21	53.52	74.00	-20.48	peak

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# 4.3.2.1.46 11N20 MIMO 157 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

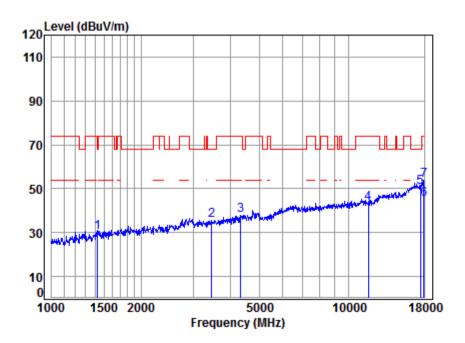
Job No : 10002

Mode : 5785 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	5.47	25.83	40.71	41.14	31.73	74.00	-42.27	peak
2	3289.821	6.27	31.38	41.83	40.03	35.85	68.20	-32.35	peak
3	4291.977	7.33	33.24	43.08	40.63	38.12	74.00	-35.88	peak
4	11570.000	12.17	37.87	38.52	32.39	43.91	74.00	-30.09	peak
5	17355.000	15.92	42.81	40.30	31.43	49.86	68.20	-18.34	peak
6	17896.250	16.02	43.38	40.22	26.34	45.52	54.00	-8.48	Average
7	17896.250	16.02	43.38	40.22	34.89	54.07	74.00	-19.93	peak

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# 4.3.2.1.47 11N20\_MIMO\_165\_Vertical



Site : chamber Condition: 3m VERTICAL

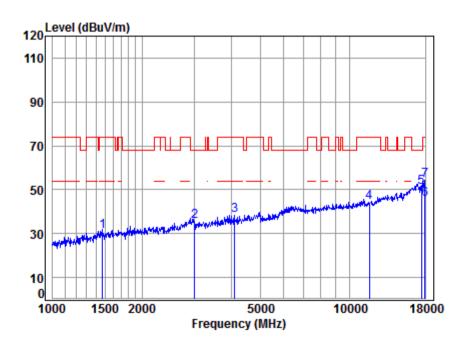
Job No : 10002

Mode : 5825 TX RSE Note : 5G WIFI 11N20

	F			Preamp					DI-
	Freq	Loss	Factor	Factor	rever	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1426.916	5.24	25.53	40.66	40.03	30.14	74.00	-43.86	peak
2	3465.510	6.43	31.65	42.08	39.59	35.59	68.20	-32.61	peak
3	4341.886	7.38	33.33	43.14	40.30	37.87	74.00	-36.13	peak
4	11650.000	12.20	37.84	38.55	31.89	43.38	74.00	-30.62	peak
5	17475.000	15.65	42.89	40.28	32.40	50.66	68.20	-17.54	peak
6	17948.050	16.08	43.44	40.21	25.80	45.11	54.00	-8.89	Average
7	17948.050	16.08	43.44	40.21	34.71	54.02	74.00	-19.98	peak

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# 4.3.2.1.48 11N20\_MIMO\_165\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

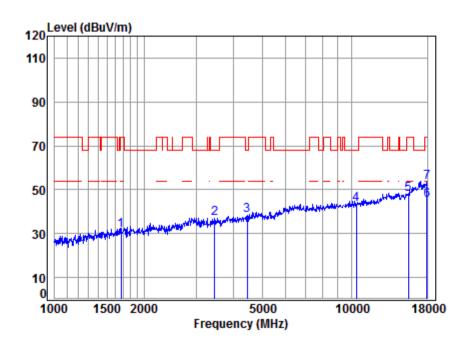
Job No : 10002

Mode : 5825 TX RSE Note : 5G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1473.013	5.39	25.70	40.69	40.76	31.16	74.00	-42.84	peak
2	3007.868	5.99	30.91	41.41	40.25	35.74	68.20	-32.46	peak
3	4098.010	7.10	32.88	42.87	41.28	38.39	74.00	-35.61	peak
4	11650.000	12.20	37.84	38.55	32.94	44.43	74.00	-29.57	peak
5	17475.000	15.65	42.89	40.28	33.04	51.30	68.20	-16.90	peak
6	17948.050	16.08	43.44	40.21	26.43	45.74	54.00	-8.26	Average
7	17948.050	16.08	43.44	40.21	35.01	54.32	74.00	-19.68	peak

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# 4.3.2.1.49 11N40 MIMO 38 Peak Vertical



Site : chamber Condition: 3m VERTICAL

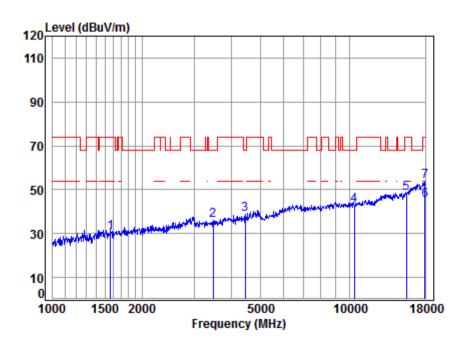
Job No : 10002

Mode : 5190 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	40.82	40.47	31.47	74.00	-42.53	peak
2	3465.510	6.43	31.65	42.08	40.95	36.95	68.20	-31.25	peak
3	4456.315	7.51	33.53	43.26	40.62	38.40	68.20	-29.80	peak
4	10380.000	11.21	37.75	37.98	32.42	43.40	68.20	-24.80	peak
5	15570.000	14.35	40.74	40.60	33.29	47.78	74.00	-26.22	peak
6	17948.050	16.08	43.44	40.21	25.83	45.14	54.00	-8.86	Average
7	17948.050	16.08	43.44	40.21	34.22	53.53	74.00	-20.47	peak

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# 4.3.2.1.50 11N40 MIMO 38 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

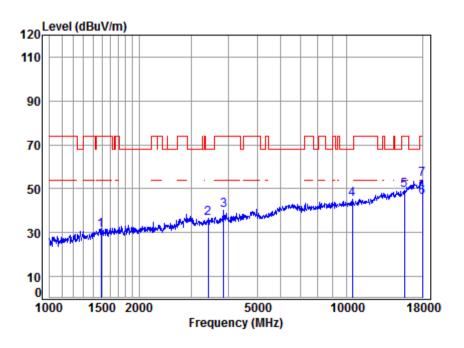
Job No : 10002

Mode : 5190 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1565.191	5.39	26.10	40.75	39.66	30.40	74.00	-43.60	peak
2	3475.541	6.44	31.66	42.09	40.13	36.14	68.20	-32.06	peak
3	4456.315	7.51	33.53	43.26	41.13	38.91	68.20	-29.29	peak
4	10380.000								•
5	15570.000	14.35	40.74	40.60	33.97	48.46	74.00	-25.54	peak
6	17948.050	16.08	43.44	40.21	25.80	45.11	54.00	-8.89	Average
7	17948.050	16.08	43.44	40.21	34.52	53.83	74.00	-20.17	peak

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# 4.3.2.1.51 11N40 MIMO 46 Peak Vertical



Site : chamber Condition: 3m VERTICAL

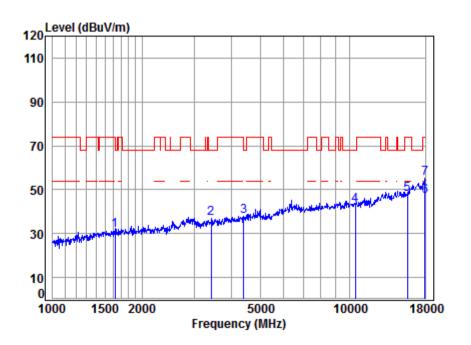
Job No : 10002

Mode : 5230 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1490.142	5.45	25.76	40.70	40.42	30.93	74.00	-43.07	peak
2	3415.787	6.38	31.57	42.01	40.75	36.69	68.20	-31.51	peak
3	3856.668	6.84	32.43	42.58	43.63	40.32	74.00	-33.68	peak
4	10460.000	11.26	37.72	38.02	34.02	44.98	68.20	-23.22	peak
5	15690.000	14.53	40.82	40.58	34.34	49.11	74.00	-24.89	peak
6	18000.000	16.13	43.50	40.20	26.46	45.89	54.00	-8.11	Average
7	18000.000	16.13	43.50	40.20	34.69	54.12	74.00	-19.88	peak

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# 4.3.2.1.52 11N40 MIMO 46 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

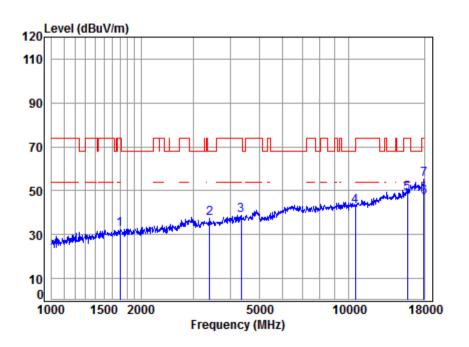
Job No : 10002

Mode : 5230 TX RSE Note : 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	40.60	31.48	74.00	-42.52	peak
2	3425.675	6.39	31.59	42.02	40.98	36.94	68.20	-31.26	peak
3	4405.090	7.46	33.44	43.20	40.21	37.91	68.20	-30.29	peak
4	10460.000	11.26	37.72	38.02	32.02	42.98	68.20	-25.22	peak
5	15690.000	14.53	40.82	40.58	33.23	48.00	74.00	-26.00	peak
6	17948.050	16.08	43.44	40.21	27.64	46.95	54.00	-7.05	Average
7	17948.050	16.08	43.44	40.21	36.08	55.39	74.00	-18.61	peak

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# 4.3.2.1.53 11N40 MIMO 54 Peak Vertical



Site : chamber Condition: 3m VERTICAL

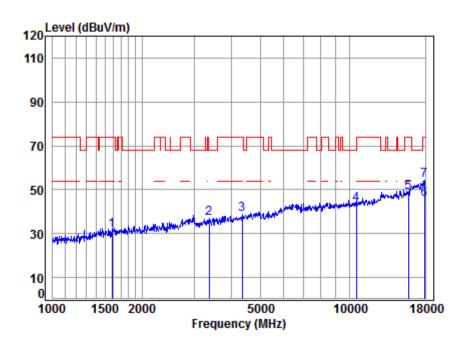
Job No : 10002

Mode : 5270 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	40.83	41.45	32.51	74.00	-41.49	peak
2	3405.929	6.38	31.56	42.00	41.53	37.47	68.20	-30.73	peak
3	4354.454	7.40	33.35	43.15	41.33	38.93	74.00	-35.07	peak
4	10540.000	11.32	37.71	38.06	32.07	43.04	68.20	-25.16	peak
5	15810.000	14.71	40.89	40.56	33.77	48.81	74.00	-25.19	peak
6	17948.050	16.08	43.44	40.21	27.50	46.81	54.00	-7.19	Average
7	17948.050	16.08	43.44	40.21	35.95	55.26	74.00	-18.74	peak

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# 4.3.2.1.54 11N40 MIMO 54 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

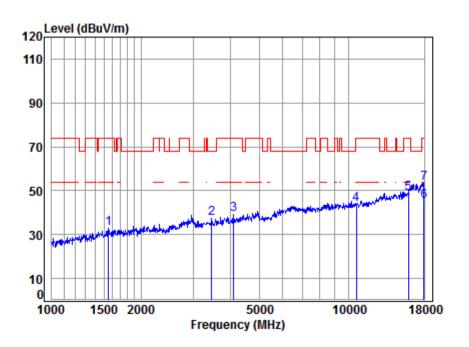
Job No : 10002

Mode : 5270 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	5.37	26.18	40.76	40.58	31.37	74.00	-42.63	peak
2	3366.778	6.34	31.50	41.94	41.17	37.07	68.20	-31.13	peak
3	4354.454	7.40	33.35	43.15	41.03	38.63	74.00	-35.37	peak
4	10540.000	11.32	37.71	38.06	32.56	43.53	68.20	-24.67	peak
5	15810.000	14.71	40.89	40.56	33.80	48.84	74.00	-25.16	peak
6	17896.250	16.02	43.38	40.22	26.55	45.73	54.00	-8.27	Average
7	17896.250	16.02	43.38	40.22	34.97	54.15	74.00	-19.85	peak

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# 4.3.2.1.55 11N40 MIMO 62 Peak Vertical



Site : chamber Condition: 3m VERTICAL

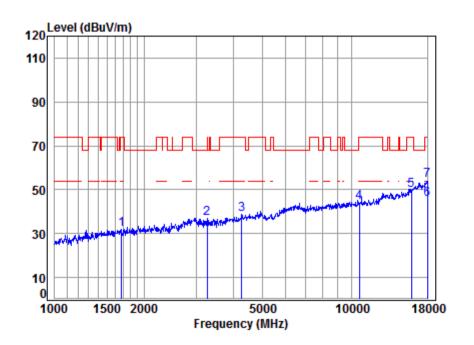
Job No : 10002

Mode : 5310 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	5.41	26.06	40.74	42.14	32.87	74.00	-41.13	peak
2	3465.510	6.43	31.65	42.08	41.37	37.37	68.20	-30.83	peak
3	4109.872	7.11	32.91	42.88	42.13	39.27	74.00	-34.73	peak
4	10620.000	11.37	37.72	38.10	33.00	43.99	74.00	-30.01	peak
5	15930.000	14.89	40.96	40.54	33.66	48.97	74.00	-25.03	peak
6	17948.050	16.08	43.44	40.21	25.80	45.11	54.00	-8.89	Average
7	17948.050	16.08	43.44	40.21	34.27	53.58	74.00	-20.42	peak

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## 4.3.2.1.56 11N40\_MIMO\_62\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

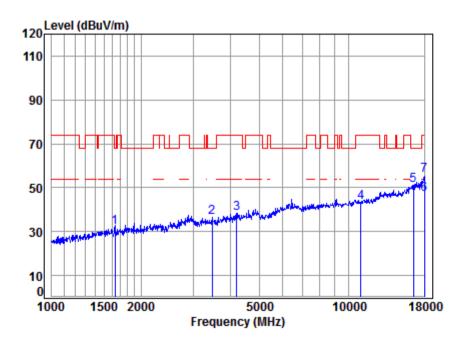
Job No : 10002

Mode : 5310 TX RSE Note : 5G WIFI 11N40

	-			Preamp					ъ
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	40.94	31.95	74.00	-42.05	peak
2	3261.418	6.24	31.33	41.79	41.29	37.07	74.00	-36.93	peak
3	4267.237	7.30	33.19	43.06	41.15	38.58	74.00	-35.42	peak
4	10620.000	11.37	37.72	38.10	33.12	44.11	74.00	-29.89	peak
5	15930.000	14.89	40.96	40.54	34.34	49.65	74.00	-24.35	peak
6	18000.000	16.13	43.50	40.20	26.40	45.83	54.00	-8.17	Average
7	18000.000	16.13	43.50	40.20	34.76	54.19	74.00	-19.81	peak

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Site : chamber Condition: 3m VERTICAL

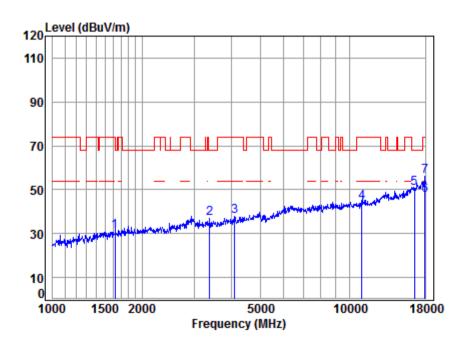
Job No : 10002

Mode : 5510 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	5.31	26.40	40.79	41.00	31.92	68.20	-36.28	peak
2	3475.541	6.44	31.66	42.09	40.45	36.46	68.20	-31.74	peak
3	4193.872	7.21	33.06	42.97	41.01	38.31	74.00	-35.69	peak
4	11020.000	11.65	37.80	38.28	32.28	43.45	74.00	-30.55	peak
5	16530.000	14.63	42.22	40.43	34.88	51.30	68.20	-16.90	peak
6	18000.000	16.13	43.50	40.20	27.59	47.02	54.00	-6.98	Average
7	18000.000	16.13	43.50	40.20	36.21	55.64	74.00	-18.36	peak

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### 4.3.2.1.58 11N40 MIMO 102 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

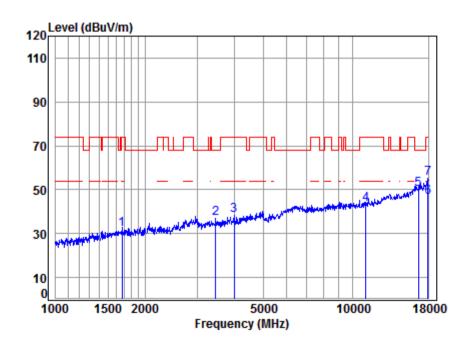
Job No : 10002

Mode : 5510 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	5.32	26.36	40.79	40.33	31.22	74.00	-42.78	peak
2	3376.523	6.35	31.51	41.96	41.00	36.90	68.20	-31.30	peak
3	4098.010	7.10	32.88	42.87	40.57	37.68	74.00	-36.32	peak
4	11020.000	11.65	37.80	38.28	33.30	44.47	74.00	-29.53	peak
5	16530.000	14.63	42.22	40.43	34.31	50.73	68.20	-17.47	peak
6	17948.050	16.08	43.44	40.21	28.25	47.56	54.00	-6.44	Average
	17948.050								_

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### 4.3.2.1.59 11N40 MIMO 110 Peak Vertical



Site : chamber Condition: 3m VERTICAL

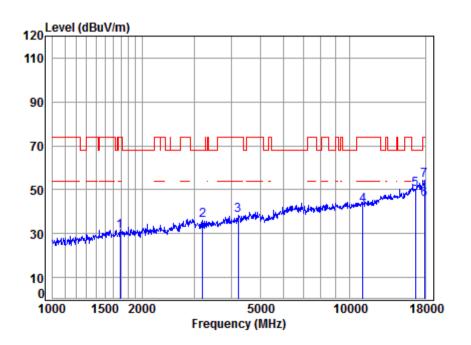
Job No : 10002

Mode : 5550 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	40.82	40.79	31.79	74.00	-42.21	peak
2	3455.508	6.42	31.63	42.06	40.89	36.88	68.20	-31.32	peak
3	3992.781	6.97	32.69	42.74	41.29	38.21	74.00	-35.79	peak
4	11100.000	11.73	37.82	38.32	32.16	43.39	74.00	-30.61	peak
5	16650.000	15.17	42.32	40.41	33.03	50.11	68.20	-18.09	peak
6	17948.050	16.08	43.44	40.21	27.40	46.71	54.00	-7.29	Average
7	17948.050	16.08	43.44	40.21	35.76	55.07	74.00	-18.93	peak

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### 4.3.2.1.60 11N40 MIMO 110 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

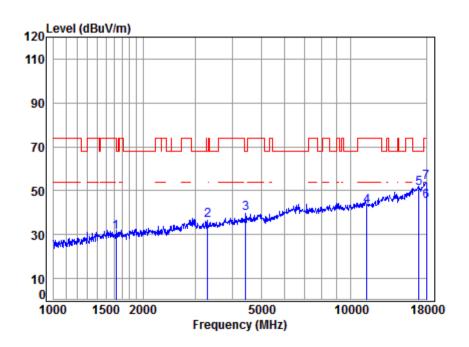
Job No : 10002

Mode : 5550 TX RSE Note : 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	5.24	26.62	40.82	39.90	30.94	74.00	-43.06	peak
2	3205.345	6.19	31.24	41.71	40.19	35.91	68.20	-32.29	peak
3	4218.186	7.24	33.11	43.00	40.85	38.20	74.00	-35.80	peak
4	11100.000	11.73	37.82	38.32	31.78	43.01	74.00	-30.99	peak
5	16650.000	15.17	42.32	40.41	32.99	50.07	68.20	-18.13	peak
6	17896.250	16.02	43.38	40.22	26.37	45.55	54.00	-8.45	Average
7	17896.250	16.02	43.38	40.22	35.11	54.29	74.00	-19.71	peak

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### 4.3.2.1.61 11N40 MIMO 134 Peak Vertical



Site : chamber Condition: 3m VERTICAL

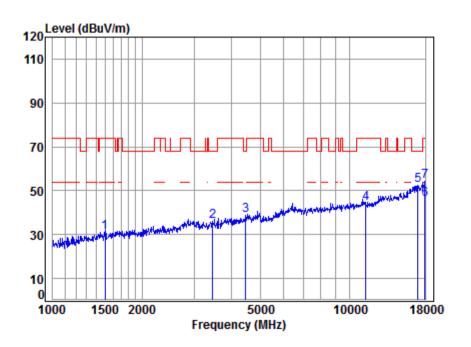
Job No : 10002

Mode : 5670 TX RSE Note : 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	40.27	31.15	74.00	-42.85	peak
2	3299.344	6.28	31.39	41.85	40.62	36.44	68.20	-31.76	peak
3	4430.628	7.48	33.48	43.23	41.99	39.72	68.20	-28.48	peak
4	11340.000	11.98	37.87	38.42	31.34	42.77	74.00	-31.23	peak
5	17010.000	16.69	42.61	40.36	32.27	51.21	68.20	-16.99	peak
6	18000.000	16.13	43.50	40.20	25.92	45.35	54.00	-8.65	Average
7	18000.000	16.13	43.50	40.20	34.41	53.84	74.00	-20.16	peak

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### 4.3.2.1.62 11N40 MIMO 134 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

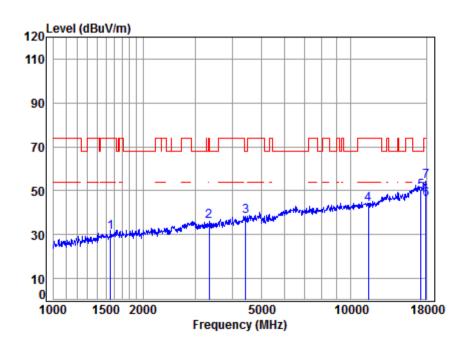
Job No : 10002

Mode : 5670 TX RSE Note : 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	40.71	40.36	30.93	74.00	-43.07	peak
2	3455.508	6.42	31.63	42.06	40.22	36.21	68.20	-31.99	peak
3	4469.214	7.53	33.55	43.27	40.98	38.79	68.20	-29.41	peak
4	11340.000	11.98	37.87	38.42	32.72	44.15	74.00	-29.85	peak
5	17010.000	16.69	42.61	40.36	33.36	52.30	68.20	-15.90	peak
6	17948.050	16.08	43.44	40.21	26.74	46.05	54.00	-7.95	Average
7	17948.050	16.08	43.44	40.21	34.88	54.19	74.00	-19.81	peak

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### 4.3.2.1.63 11N40 MIMO 151 Peak Vertical



Site : chamber Condition: 3m VERTICAL

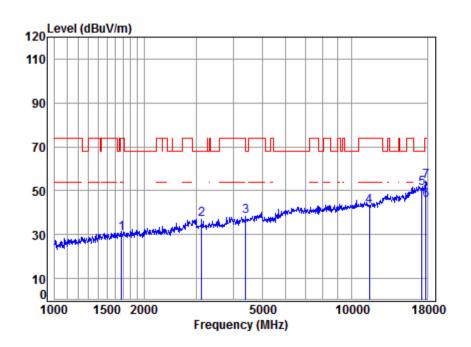
Job No : 10002

Mode : 5755 TX RSE Note : 5G WIFI 11N40

	-			Preamp					
	Freq	Loss	Factor	Factor	revel	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	5.41	26.06	40.74	40.10	30.83	74.00	-43.17	peak
2	3337.710	6.31	31.45	41.90	40.41	36.27	74.00	-37.73	peak
3	4430.628	7.48	33.48	43.23	40.49	38.22	68.20	-29.98	peak
4	11510.000	12.14	37.90	38.49	32.15	43.70	74.00	-30.30	peak
5	17265.000	16.12	42.76	40.31	31.18	49.75	68.20	-18.45	peak
6	17948.050	16.08	43.44	40.21	26.80	46.11	54.00	-7.89	Average
7	17948.050	16.08	43.44	40.21	35.14	54.45	74.00	-19.55	peak

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### 4.3.2.1.64 11N40 MIMO 151 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

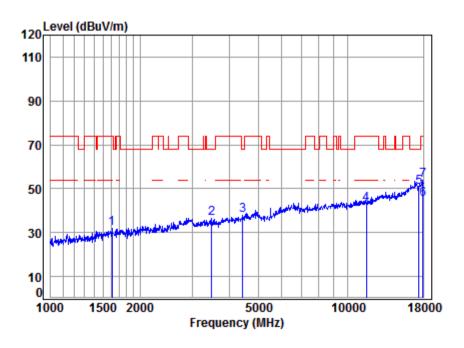
Job No : 10002

Mode : 5755 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1677.621	5.25	26.58	40.82	39.60	30.61	74.00	-43.39	peak
2	3123.039	6.11	31.11	41.59	41.39	37.02	68.20	-31.18	peak
3	4405.090	7.46	33.44	43.20	40.55	38.25	68.20	-29.95	peak
4	11510.000	12.14	37.90	38.49	31.36	42.91	74.00	-31.09	peak
5	17265.000	16.12	42.76	40.31	32.53	51.10	68.20	-17.10	peak
6	17793.090	15.91	43.25	40.23	26.85	45.78	54.00	-8.22	Average
	17793.090								_

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### 4.3.2.1.65 11N40 MIMO 159 Peak Vertical



Site : chamber Condition: 3m VERTICAL

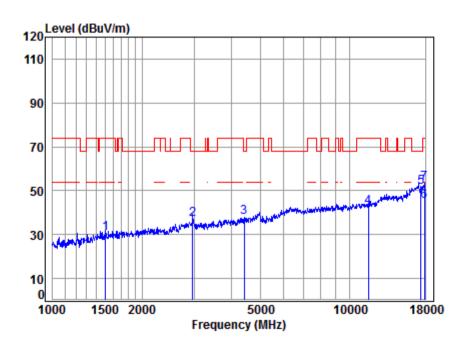
Job No : 10002

Mode : 5795 TX RSE Note : 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	5.34	26.30	40.78	41.12	31.98	74.00	-42.02	peak
2	3485.601	6.45	31.68	42.10	40.67	36.70	68.20	-31.50	peak
3	4430.628	7.48	33.48	43.23	40.07	37.80	68.20	-30.40	peak
4	11590.000	12.17	37.86	38.53	31.61	43.11	74.00	-30.89	peak
5	17385.000	15.85	42.83	40.30	32.39	50.77	68.20	-17.43	peak
6	17948.050	16.08	43.44	40.21	25.87	45.18	54.00	-8.82	Average
7	17948.050	16.08	43.44	40.21	34.45	53.76	74.00	-20.24	peak

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### 4.3.2.1.66 11N40 MIMO 159 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

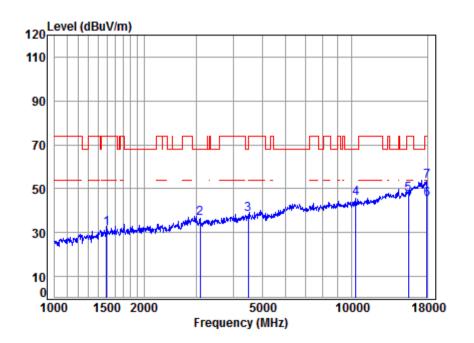
Job No : 10002

Mode : 5795 TX RSE Note : 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	5.47	25.83	40.71	40.20	30.79	74.00	-43.21	peak
2	2964.712	5.96	30.76	41.39	41.76	37.09	68.20	-31.11	peak
3	4417.841	7.47	33.46	43.22	40.28	37.99	68.20	-30.21	peak
4	11590.000	12.17	37.86	38.53	30.87	42.37	74.00	-31.63	peak
5	17385.000	15.85	42.83	40.30	33.03	51.41	68.20	-16.79	peak
6	17896.250	16.02	43.38	40.22	26.13	45.31	54.00	-8.69	Average
7	17896.250	16.02	43.38	40.22	34.39	53.57	74.00	-20.43	peak

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### 4.3.2.1.67 11AC20 MIMO 36 Vertical



Site : chamber Condition: 3m VERTICAL

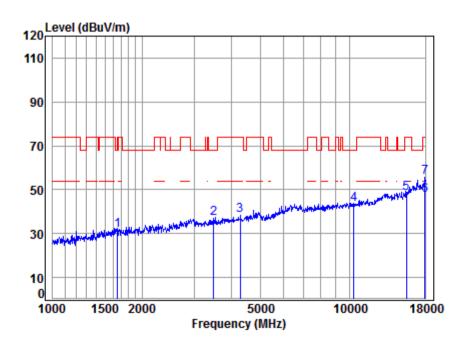
Job No : 10002

Mode : 5180 TX RSE Note : 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1494.455	5.46	25.78	40.70	41.45	31.99	74.00	-42.01	peak
2	3087.140	6.07	31.05	41.53	40.84	36.43	68.20	-31.77	peak
3	4495.125	7.55	33.59	43.30	40.46	38.30	68.20	-29.90	peak
4	10360.000	11.19	37.76	37.97	34.86	45.84	68.20	-22.36	peak
5	15540.000	14.30	40.72	40.60	33.04	47.46	74.00	-26.54	peak
6	17948.050	16.08	43.44	40.21	25.95	45.26	54.00	-8.74	Average
7	17948.050	16.08	43.44	40.21	34.29	53.60	74.00	-20.40	peak

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### 4.3.2.1.68 11AC20 MIMO 36 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

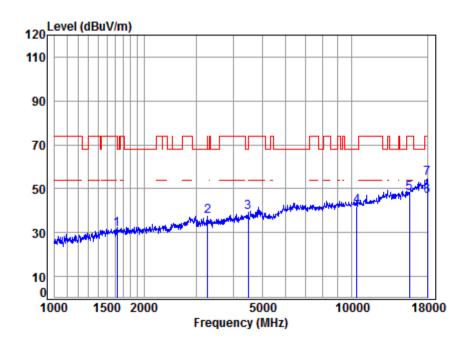
Job No : 10002

Mode : 5180 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	5.28	26.48	40.80	40.58	31.54	68.20	-36.66	peak
2	3485.601	6.45	31.68	42.10	40.73	36.76	68.20	-31.44	peak
3	4291.977	7.33	33.24	43.08	40.67	38.16	74.00	-35.84	peak
4	10360.000	11.19	37.76	37.97	32.41	43.39	68.20	-24.81	peak
5	15540.000	14.30	40.72	40.60	34.05	48.47	74.00	-25.53	peak
6	17948.050	16.08	43.44	40.21	28.00	47.31	54.00	-6.69	Average
7	17948.050	16.08	43.44	40.21	36.15	55.46	74.00	-18.54	peak

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### 4.3.2.1.69 11AC20 MIMO 44 Vertical



Site : chamber Condition: 3m VERTICAL

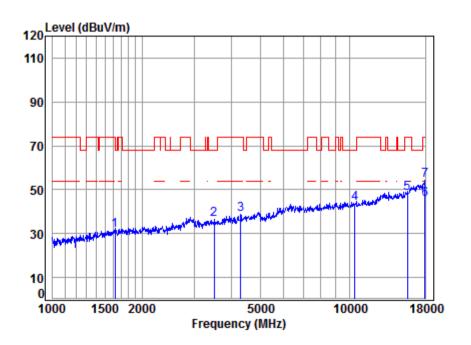
Job No : 10002

Mode : 5220 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	40.42	31.30	74.00	-42.70	peak
2	3280.326	6.26	31.36	41.82	41.64	37.44	68.20	-30.76	peak
3	4482.150	7.54	33.57	43.29	41.27	39.09	68.20	-29.11	peak
4	10440.000	11.25	37.72	38.01	31.20	42.16	68.20	-26.04	peak
5	15660.000	14.48	40.80	40.58	33.18	47.88	74.00	-26.12	peak
6	18000.000	16.13	43.50	40.20	27.18	46.61	54.00	-7.39	Average
7	18000.000	16.13	43.50	40.20	35.37	54.80	74.00	-19.20	peak

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### 4.3.2.1.70 11AC20 MIMO 44 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

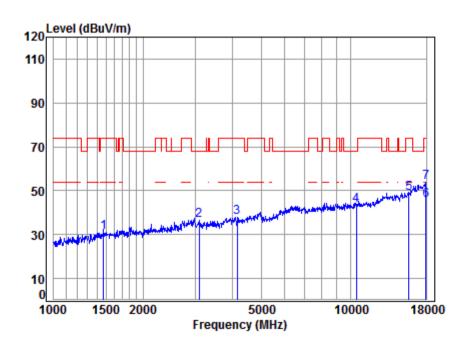
Job No : 10002

Mode : 5220 TX RSE Note : 5G WIFI 11AC20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	40.54	31.42	74.00	-42.58	peak
2	3495.691	6.46	31.69	42.12	40.55	36.58	68.20	-31.62	peak
3	4304.400	7.34	33.26	43.10	41.24	38.74	74.00	-35.26	peak
4	10440.000	11.25	37.72	38.01	32.62	43.58	68.20	-24.62	peak
5	15660.000	14.48	40.80	40.58	33.50	48.20	74.00	-25.80	peak
6	17948.050	16.08	43.44	40.21	26.33	45.64	54.00	-8.36	Average
7	17948.050	16.08	43.44	40.21	34.79	54.10	74.00	-19.90	peak

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### 4.3.2.1.71 11AC20 MIMO 48 Vertical



Site : chamber Condition: 3m VERTICAL

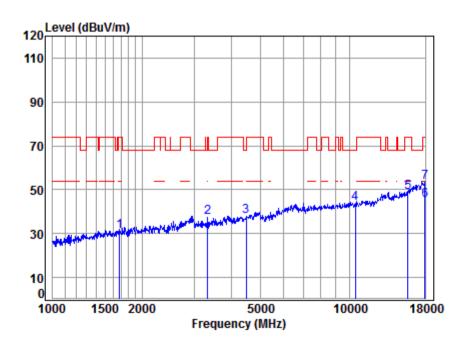
Job No : 10002

Mode : 5240 TX RSE Note : 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	<del>d</del> B	dBuV	dBuV/m	dBuV/m	——dB	
1	1473.013	5.39	25.70	40.69	40.83	31.23	74.00	-42.77	peak
2	3096.075	6.08	31.06	41.55	41.01	36.60	68.20	-31.60	peak
3	4145.664	7.16	32.97	42.92	40.51	37.72	74.00	-36.28	peak
4	10480.000	11.28	37.71	38.03	32.60	43.56	68.20	-24.64	peak
5	15720.000	14.57	40.83	40.57	33.85	48.68	74.00	-25.32	peak
	17948.050								•
	17948.050								_

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### 4.3.2.1.72 11AC20 MIMO 48 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

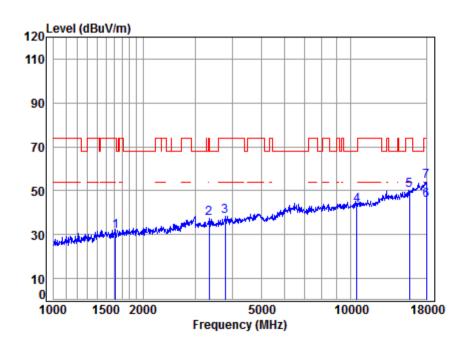
Job No : 10002

Mode : 5240 TX RSE Note : 5G WIFI 11AC20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	40.82	40.13	31.16	74.00	-42.84	peak
2	3328.077	6.30	31.44	41.89	41.44	37.29	68.20	-30.91	peak
3	4482.150	7.54	33.57	43.29	40.26	38.08	68.20	-30.12	peak
4	10480.000	11.28	37.71	38.03	32.81	43.77	68.20	-24.43	peak
5	15720.000	14.57	40.83	40.57	33.80	48.63	74.00	-25.37	peak
6	17948.050	16.08	43.44	40.21	25.76	45.07	54.00	-8.93	Average
7	17948.050	16.08	43.44	40.21	34.13	53.44	74.00	-20.56	peak

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### 4.3.2.1.73 11AC20 MIMO 52 Vertical



Site : chamber Condition: 3m VERTICAL

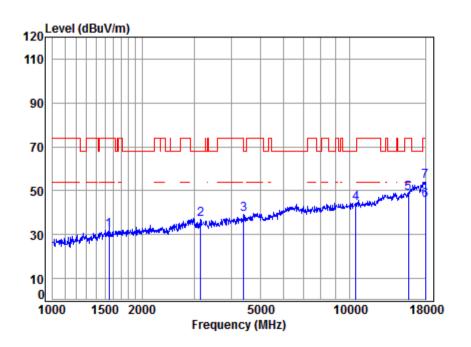
Job No : 10002

Mode : 5260 TX RSE Note : 5G WIFI 11AC20

	F			Preamp					DI-
	Freq	LOSS	Factor	Factor	rever	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.754	5.33	26.32	40.78	40.68	31.55	74.00	-42.45	peak
2	3337.710	6.31	31.45	41.90	41.50	37.36	74.00	-36.64	peak
3	3790.361	6.77	32.30	42.50	41.89	38.46	74.00	-35.54	peak
4	10520.000	11.30	37.70	38.05	32.41	43.36	68.20	-24.84	peak
5	15780.000	14.66	40.87	40.56	35.18	50.15	74.00	-23.85	peak
6	18000.000	16.13	43.50	40.20	26.18	45.61	54.00	-8.39	Average
7	18000.000	16.13	43.50	40.20	34.66	54.09	74.00	-19.91	peak

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### 4.3.2.1.74 11AC20 MIMO 52 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

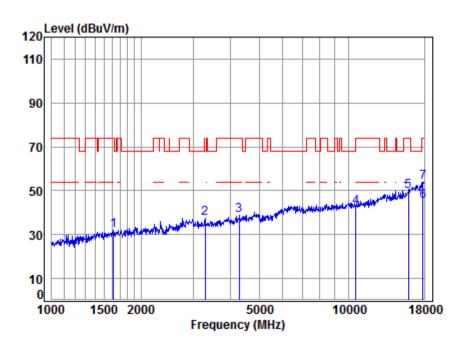
Job No : 10002

Mode : 5260 TX RSE Note : 5G WIFI 11AC20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	5.42	26.02	40.74	41.39	32.09	74.00	-41.91	peak
2	3150.237	6.13	31.15	41.63	41.34	36.99	68.20	-31.21	peak
3	4405.090	7.46	33.44	43.20	41.32	39.02	68.20	-29.18	peak
4	10520.000	11.30	37.70	38.05	33.31	44.26	68.20	-23.94	peak
5	15780.000	14.66	40.87	40.56	33.68	48.65	74.00	-25.35	peak
6	18000.000	16.13	43.50	40.20	26.39	45.82	54.00	-8.18	Average
7	18000.000	16.13	43.50	40.20	34.68	54.11	74.00	-19.89	peak

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### 4.3.2.1.75 11AC20 MIMO 60 Vertical



Site : chamber Condition: 3m VERTICAL

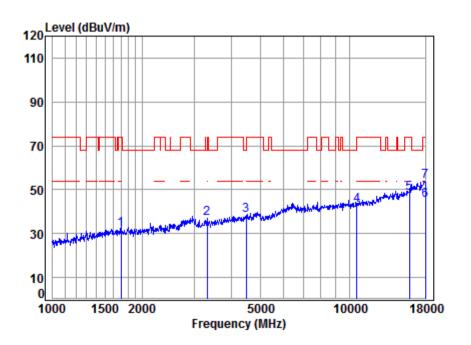
Job No : 10002

Mode : 5300 TX RSE Note : 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1615.754	5.33	26.32	40.78	41.01	31.88	74.00	-42.12	peak
2	3289.821	6.27	31.38	41.83	41.56	37.38	68.20	-30.82	peak
3	4291.977	7.33	33.24	43.08	41.23	38.72	74.00	-35.28	peak
4	10600.000	11.36	37.72	38.09	31.58	42.57	68.20	-25.63	peak
5	15900.000	14.84	40.94	40.54	34.66	49.90	74.00	-24.10	peak
6	17844.590	15.97	43.32	40.22	26.19	45.26	54.00	-8.74	Average
7	17844.590	15.97	43.32	40.22	34.81	53.88	74.00	-20.12	peak

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### 4.3.2.1.76 11AC20 MIMO 60 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

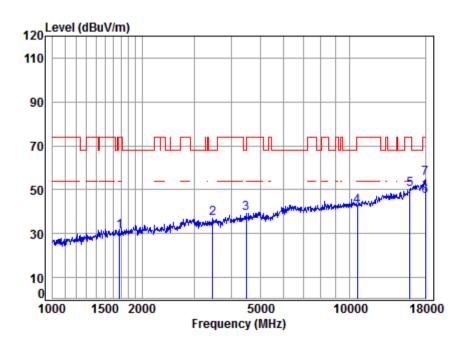
Job No : 10002

Mode : 5300 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			•						
1	1697.129	5.23	26.66	40.83	41.04	32.10	74.00	-41.90	peak
2	3318.471	6.29	31.42	41.87	41.11	36.95	68.20	-31.25	peak
3	4495.125	7.55	33.59	43.30	40.41	38.25	68.20	-29.95	peak
4	10600.000	11.36	37.72	38.09	32.03	43.02	68.20	-25.18	peak
5	15900.000	14.84	40.94	40.54	33.23	48.47	74.00	-25.53	peak
6	18000.000	16.13	43.50	40.20	25.91	45.34	54.00	-8.66	Average
7	18000.000	16.13	43.50	40.20	34.44	53.87	74.00	-20.13	peak
									-

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### 4.3.2.1.77 11AC20 MIMO 64 Vertical



Site : chamber Condition: 3m VERTICAL

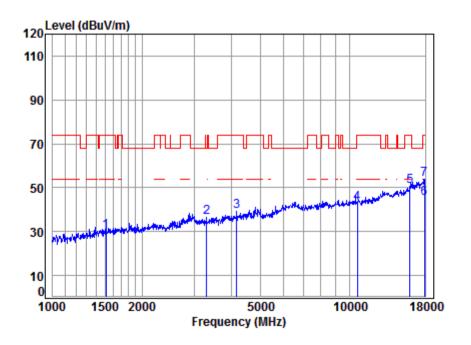
Job No : 10002

Mode : 5320 TX RSE Note : 5G WIFI 11AC20

	-			Preamp					ъ
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	39.87	30.88	74.00	-43.12	peak
2	3465.510	6.43	31.65	42.08	40.90	36.90	68.20	-31.30	peak
3	4482.150	7.54	33.57	43.29	41.60	39.42	68.20	-28.78	peak
4	10640.000	11.39	37.73	38.11	31.59	42.60	74.00	-31.40	peak
5	15960.000	14.93	40.98	40.53	34.79	50.17	74.00	-23.83	peak
6	18000.000	16.13	43.50	40.20	27.71	47.14	54.00	-6.86	Average
7	18000.000	16.13	43.50	40.20	36.00	55.43	74.00	-18.57	peak

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#### 



Site : chamber

Condition: 3m HORIZONTAL

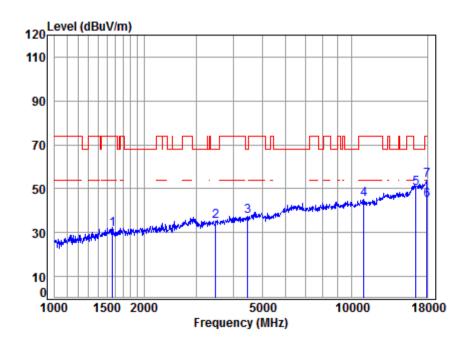
Job No : 10002

Mode : 5320 TX RSE Note : 5G WIFI 11AC20

	F			Preamp					Damada
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	5.46	25.85	40.71	39.50	30.10	74.00	-43.90	peak
2	3299.344	6.28	31.39	41.85	40.53	36.35	68.20	-31.85	peak
3	4169.698	7.18	33.02	42.95	41.83	39.08	74.00	-34.92	peak
4	10640.000	11.39	37.73	38.11	32.07	43.08	74.00	-30.92	peak
5	15960.000	14.93	40.98	40.53	35.36	50.74	74.00	-23.26	peak
6	17896.250	16.02	43.38	40.22	26.06	45.24	54.00	-8.76	Average
7	17896.250	16.02	43.38	40.22	34.77	53.95	74.00	-20.05	peak

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### 4.3.2.1.79 11AC20 MIMO 100 Vertical



Site : chamber Condition: 3m VERTICAL

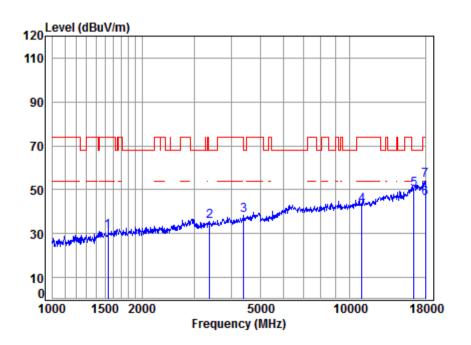
Job No : 10002

Mode : 5500 TX RSE Note : 5G WIFI 11AC20

	Frea			Preamp Factor					Remark
		2033			20101				Kemar K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
									_
1	1565.191	5.39	26.10	40.75	40.65	31.39	74.00	-42.61	peak
2	3485.601	6.45	31.68	42.10	39.30	35.33	68.20	-32.87	peak
3	4469.214	7.53	33.55	43.27	39.64	37.45	68.20	-30.75	peak
4	11000.000	11.63	37.80	38.27	34.15	45.31	74.00	-28.69	peak
5	16500.000	14.50	42.20	40.44	33.86	50.12	68.20	-18.08	peak
6	17948.050	16.08	43.44	40.21	25.56	44.87	54.00	-9.13	Average
7	17948.050	16.08	43.44	40.21	34.37	53.68	74.00	-20.32	peak

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### 4.3.2.1.80 11AC20 MIMO 100 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

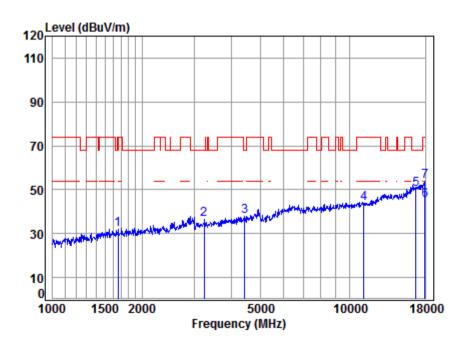
Job No : 10002

Mode : 5500 TX RSE Note : 5G WIFI 11AC20

	F			Preamp					Damanla
	Freq	LOSS	Factor	Factor	rever	revei	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	5.43	25.98	40.73	40.54	31.22	74.00	-42.78	peak
2	3376.523	6.35	31.51	41.96	39.89	35.79	68.20	-32.41	peak
3	4405.090	7.46	33.44	43.20	40.53	38.23	68.20	-29.97	peak
4	11000.000	11.63	37.80	38.27	31.78	42.94	74.00	-31.06	peak
5	16500.000	14.50	42.20	40.44	33.98	50.24	68.20	-17.96	peak
6	18000.000	16.13	43.50	40.20	26.57	46.00	54.00	-8.00	Average
7	18000.000	16.13	43.50	40.20	34.89	54.32	74.00	-19.68	peak

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### 4.3.2.1.81 11AC20 MIMO 116 Vertical



Site : chamber Condition: 3m VERTICAL

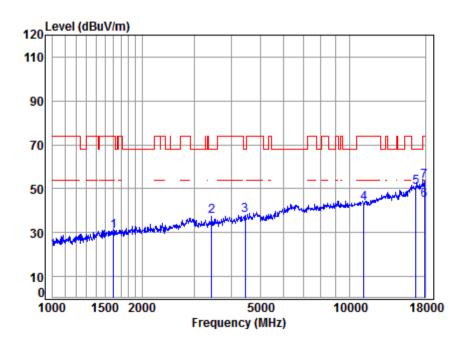
Job No : 10002

Mode : 5580 TX RSE Note : 5G WIFI 11AC20

	-			Preamp					ъ
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	5.27	26.52	40.81	41.01	31.99	74.00	-42.01	peak
2	3242.619	6.22	31.30	41.77	40.79	36.54	68.20	-31.66	peak
3	4443.453	7.50	33.50	43.25	40.16	37.91	68.20	-30.29	peak
4	11160.000	11.80	37.83	38.34	32.66	43.95	74.00	-30.05	peak
5	16740.000	15.57	42.39	40.40	32.79	50.35	68.20	-17.85	peak
6	17948.050	16.08	43.44	40.21	25.73	45.04	54.00	-8.96	Average
7	17948.050	16.08	43.44	40.21	34.39	53.70	74.00	-20.30	peak

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# 4.3.2.1.82 11AC20\_MIMO\_116\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

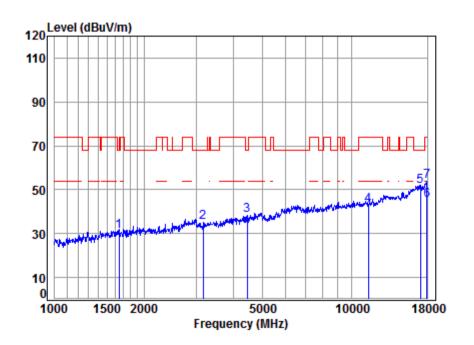
Job No : 10002

Mode : 5580 TX RSE Note : 5G WIFI 11AC20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	5.35	26.26	40.77	39.65	30.49	74.00	-43.51	peak
2	3435.590	6.40	31.60	42.04	41.59	37.55	68.20	-30.65	peak
3	4456.315	7.51	33.53	43.26	40.11	37.89	68.20	-30.31	peak
4	11160.000	11.80	37.83	38.34	32.21	43.50	74.00	-30.50	peak
5	16740.000	15.57	42.39	40.40	33.19	50.75	68.20	-17.45	peak
6	17896.250	16.02	43.38	40.22	25.64	44.82	54.00	-9.18	Average
7	17896.250	16.02	43.38	40.22	34.36	53.54	74.00	-20.46	peak

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## 4.3.2.1.83 11AC20\_MIMO\_140\_Vertical



Site : chamber Condition: 3m VERTICAL

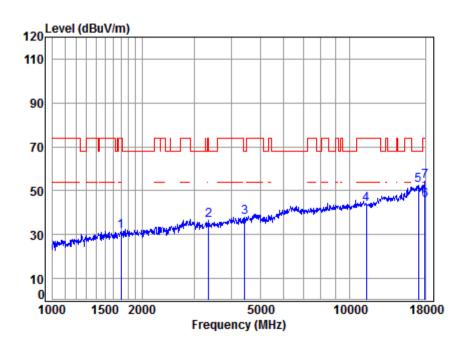
Job No : 10002

Mode : 5700 TX RSE Note : 5G WIFI 11AC20

	-			Preamp					ъ
	Freq	Loss	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	5.29	26.46	40.80	40.03	30.98	68.20	-37.22	peak
2	3168.500	6.15	31.18	41.66	39.65	35.32	68.20	-32.88	peak
3	4456.315	7.51	33.53	43.26	40.33	38.11	68.20	-30.09	peak
4	11400.000	12.04	37.88	38.45	31.30	42.77	74.00	-31.23	peak
5	17100.000	16.49	42.66	40.34	32.73	51.54	68.20	-16.66	peak
6	17948.050	16.08	43.44	40.21	25.93	45.24	54.00	-8.76	Average
	17948.050								_

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### 4.3.2.1.84 11AC20 MIMO 140 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

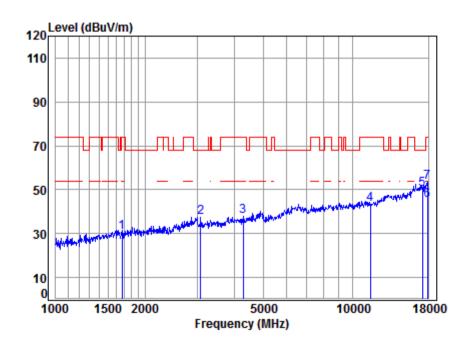
Job No : 10002

Mode : 5700 TX RSE Note : 5G WIFI 11AC20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.83	40.62	31.70	74.00	-42.30	peak
2	3357.061	6.33	31.48	41.93	40.79	36.67	74.00	-37.33	peak
3	4430.628	7.48	33.48	43.23	39.98	37.71	68.20	-30.49	peak
4	11400.000	12.04	37.88	38.45	32.38	43.85	74.00	-30.15	peak
5	17100.000	16.49	42.66	40.34	33.76	52.57	68.20	-15.63	peak
6	17948.050	16.08	43.44	40.21	26.21	45.52	54.00	-8.48	Average
7	17948.050	16.08	43.44	40.21	34.77	54.08	74.00	-19.92	peak

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## 4.3.2.1.85 11AC20\_MIMO\_149\_Vertical



Site : chamber Condition: 3m VERTICAL

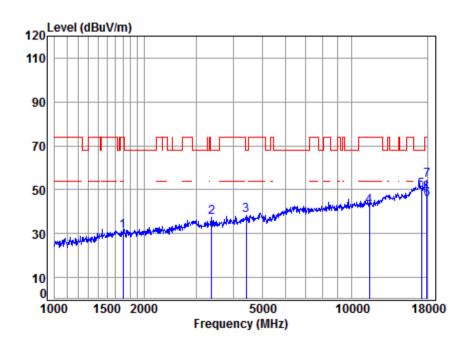
Job No : 10002

Mode : 5745 TX RSE Note : 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1672.779	5.26	26.56	40.82	39.60	30.60	74.00	-43.40	peak
2	3078.229	6.06	31.03	41.52	41.87	37.44	68.20	-30.76	peak
3	4279.589	7.31	33.22	43.07	40.61	38.07	74.00	-35.93	peak
4	11490.000	12.13	37.90	38.49	31.64	43.18	74.00	-30.82	peak
5	17235.000	16.18	42.74	40.32	31.77	50.37	68.20	-17.83	peak
6	17896.250	16.02	43.38	40.22	25.99	45.17	54.00	-8.83	Average
7	17896.250	16.02	43.38	40.22	34.32	53.50	74.00	-20.50	peak

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## 4.3.2.1.86 11AC20\_MIMO\_149\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

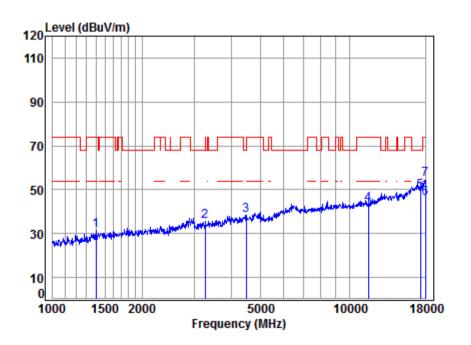
Job No : 10002

Mode : 5745 TX RSE Note : 5G WIFI 11AC20

	Гиса			Preamp					Domanic
	Freq	LOSS	ractor	Factor	rever	rever	Line	LIMIC	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	40.83	39.76	30.82	74.00	-43.18	peak
2	3386.297	6.36	31.53	41.97	41.70	37.62	68.20	-30.58	peak
3	4417.841	7.47	33.46	43.22	40.54	38.25	68.20	-29.95	peak
4	11490.000	12.13	37.90	38.49	31.10	42.64	74.00	-31.36	peak
5	17235.000	16.18	42.74	40.32	31.36	49.96	68.20	-18.24	peak
6	17948.050	16.08	43.44	40.21	26.42	45.73	54.00	-8.27	Average
7	17948.050	16.08	43.44	40.21	35.12	54.43	74.00	-19.57	peak

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### 4.3.2.1.87 11AC20\_MIMO\_157\_Vertical



Site : chamber Condition: 3m VERTICAL

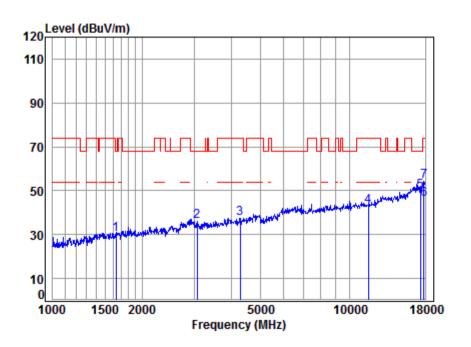
Job No : 10002

Mode : 5785 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1402.384	5.16	25.43	40.64	41.66	31.61	74.00	-42.39	peak
2	3261.418	6.24	31.33	41.79	39.91	35.69	74.00	-38.31	peak
3	4482.150	7.54	33.57	43.29	40.73	38.55	68.20	-29.65	peak
4	11570.000	12.17	37.87	38.52	31.73	43.25	74.00	-30.75	peak
5	17355.000	15.92	42.81	40.30	31.00	49.43	68.20	-18.77	peak
6	18000.000	16.13	43.50	40.20	26.82	46.25	54.00	-7.75	Average
7	18000.000	16.13	43.50	40.20	35.27	54.70	74.00	-19.30	peak

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### 4.3.2.1.88 11AC20 MIMO 157 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

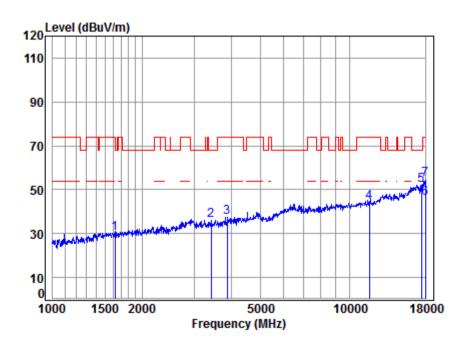
Job No : 10002

Mode : 5785 TX RSE Note : 5G WIFI 11AC20

	F			Preamp					Damanla
	Freq	Loss	Factor	Factor	rever	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	5.31	26.40	40.79	39.25	30.17	68.20	-38.03	peak
2	3069.345	6.05	31.02	41.51	40.47	36.03	68.20	-32.17	peak
3	4279.589	7.31	33.22	43.07	40.14	37.60	74.00	-36.40	peak
4	11570.000	12.17	37.87	38.52	31.56	43.08	74.00	-30.92	peak
5	17355.000	15.92	42.81	40.30	31.15	49.58	68.20	-18.62	peak
6	17793.090	15.91	43.25	40.23	27.01	45.94	54.00	-8.06	Average
7	17793.090	15.91	43.25	40.23	35.39	54.32	74.00	-19.68	peak

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## 4.3.2.1.89 11AC20\_MIMO\_165\_Vertical



Site : chamber Condition: 3m VERTICAL

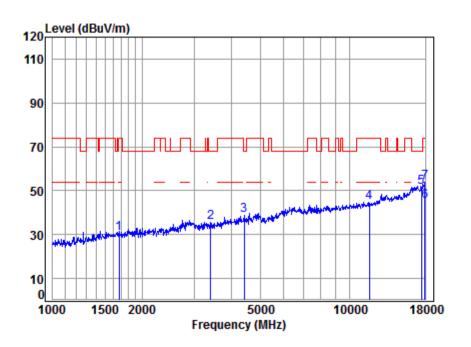
Job No : 10002

Mode : 5825 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	•								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			,			,	,		
1	1620.431	5.32	26.34	40.78	39.17	30.05	74.00	-43.95	peak
2	3415.787								-
3	3879.027	6.86	32.47	42.61	40.85	37.57	74.00	-36.43	peak
4	11650.000	12.20	37.84	38.55	32.87	44.36	74.00	-29.64	peak
5	17475.000	15.65	42.89	40.28	33.83	52.09	68.20	-16.11	peak
6	18000.000	16.13	43.50	40.20	26.85	46.28	54.00	-7.72	Average
7	18000.000	16.13	43.50	40.20	35.14	54.57	74.00	-19.43	peak

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# 4.3.2.1.90 11AC20\_MIMO\_165\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

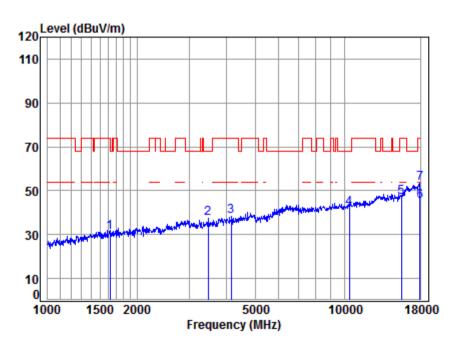
Job No : 10002

Mode : 5825 TX RSE Note : 5G WIFI 11AC20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	40.82	39.55	30.55	74.00	-43.45	peak
2	3405.929	6.38	31.56	42.00	39.83	35.77	68.20	-32.43	peak
3	4417.841	7.47	33.46	43.22	41.17	38.88	68.20	-29.32	peak
4	11650.000	12.20	37.84	38.55	33.19	44.68	74.00	-29.32	peak
5	17475.000	15.65	42.89	40.28	33.21	51.47	68.20	-16.73	peak
6	17948.050	16.08	43.44	40.21	25.98	45.29	54.00	-8.71	Average
7	17948.050	16.08	43.44	40.21	34.40	53.71	74.00	-20.29	peak

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### 4.3.2.1.91 11AC40 MIMO 38 Peak Vertical



Site : chamber Condition: 3m VERTICAL

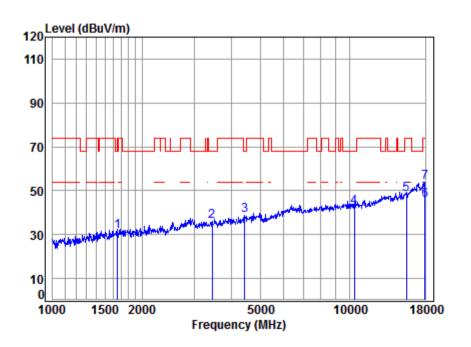
Job No : 10002

Mode : 5190 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1620.431	5.32	26.34	40.78	40.14	31.02	74.00	-42.98	peak
2	3475.541	6.44	31.66	42.09	41.47	37.48	68.20	-30.72	peak
3	4157.664	7.17	33.00	42.93	41.17	38.41	74.00	-35.59	peak
4	10380.000	11.21	37.75	37.98	31.02	42.00	68.20	-26.20	peak
5	15570.000	14.35	40.74	40.60	32.68	47.17	74.00	-26.83	peak
6	17948.050	16.08	43.44	40.21	25.86	45.17	54.00	-8.83	Average
7	17948.050	16.08	43.44	40.21	34.24	53.55	74.00	-20.45	peak

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## 4.3.2.1.92 11AC40 MIMO 38 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

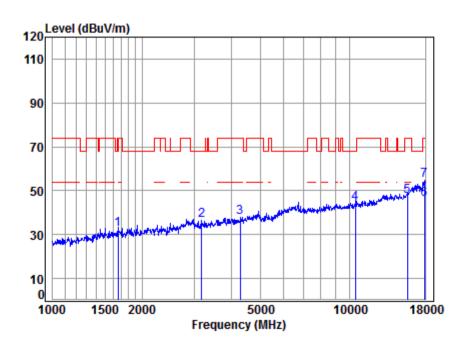
Job No : 10002

Mode : 5190 TX RSE Note : 5G WIFI 11AC40

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	5.28	26.48	40.80	40.65	31.61	68.20	-36.59	peak
2	3445.535	6.41	31.62	42.05	40.25	36.23	68.20	-31.97	peak
3	4443.453	7.50	33.50	43.25	40.82	38.57	68.20	-29.63	peak
4	10380.000	11.21	37.75	37.98	31.36	42.34	68.20	-25.86	peak
5	15570.000	14.35	40.74	40.60	33.75	48.24	74.00	-25.76	peak
6	17948.050	16.08	43.44	40.21	26.34	45.65	54.00	-8.35	Average
7	17948.050	16.08	43.44	40.21	34.59	53.90	74.00	-20.10	peak

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## 4.3.2.1.93 11AC40 MIMO 46 Peak Vertical



Site : chamber Condition: 3m VERTICAL

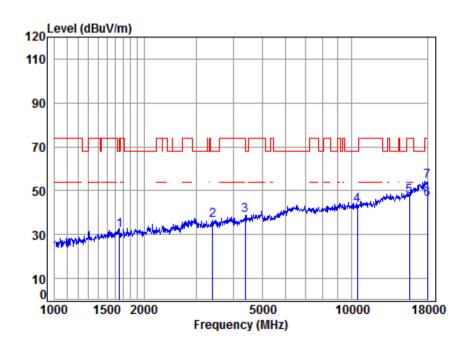
Job No : 10002

Mode : 5230 TX RSE Note : 5G WIFI 11AC40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	5.28	26.50	40.81	41.23	32.20	68.20	-36.00	peak
2	3177.672	6.16	31.20	41.67	40.86	36.55	68.20	-31.65	peak
3	4291.977	7.33	33.24	43.08	40.29	37.78	74.00	-36.22	peak
4	10460.000	11.26	37.72	38.02	33.12	44.08	68.20	-24.12	peak
5	15690.000	14.53	40.82	40.58	32.85	47.62	74.00	-26.38	peak
6	17896.250	16.02	43.38	40.22	27.08	46.26	54.00	-7.74	Average
7	17896.250	16.02	43.38	40.22	35.72	54.90	74.00	-19.10	peak

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## 4.3.2.1.94 11AC40 MIMO 46 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

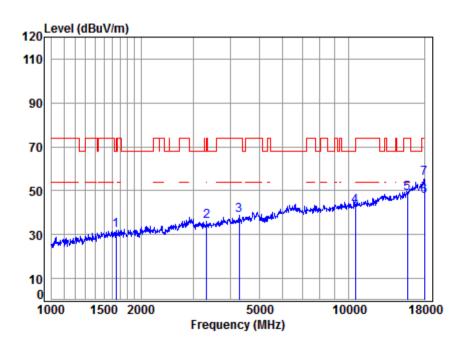
Job No : 10002

Mode : 5230 TX RSE Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	5.28	26.48	40.80	40.83	31.79	68.20	-36.41	peak
2	3405.929	6.38	31.56	42.00	40.61	36.55	68.20	-31.65	peak
3	4379.699	7.43	33.39	43.18	41.27	38.91	74.00	-35.09	peak
4	10460.000	11.26	37.72	38.02	32.30	43.26	68.20	-24.94	peak
5	15690.000	14.53	40.82	40.58	32.61	47.38	74.00	-26.62	peak
6	18000.000	16.13	43.50	40.20	26.49	45.92	54.00	-8.08	Average
7	18000.000	16.13	43.50	40.20	34.76	54.19	74.00	-19.81	peak
									-

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## 4.3.2.1.95 11AC40 MIMO 54 Vertical



Site : chamber Condition: 3m VERTICAL

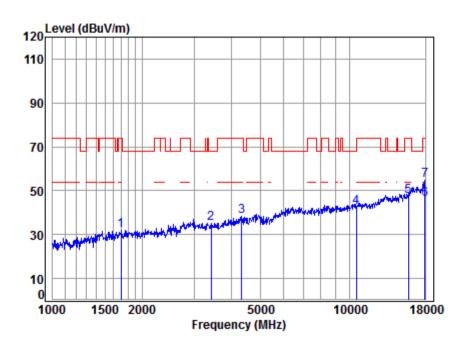
Job No : 10002

Mode : 5270 TX RSE Note : 5G WIFI 11AC40

	Freq	Cable Loss		Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1648.778	5.29	26.46	40.80	41.19	32.14	68.20	-36.06	peak
2	3328.077	6.30	31.44	41.89	40.35	36.20	68.20	-32.00	peak
3	4279.589	7.31	33.22	43.07	41.46	38.92	74.00	-35.08	peak
4	10540.000	11.32	37.71	38.06	32.13	43.10	68.20	-25.10	peak
5	15810.000	14.71	40.89	40.56	33.78	48.82	74.00	-25.18	peak
6	18000.000	16.13	43.50	40.20	28.18	47.61	54.00	-6.39	Average
7	18000.000	16.13	43.50	40.20	36.42	55.85	74.00	-18.15	peak

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## 4.3.2.1.96 11AC40 MIMO 54 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

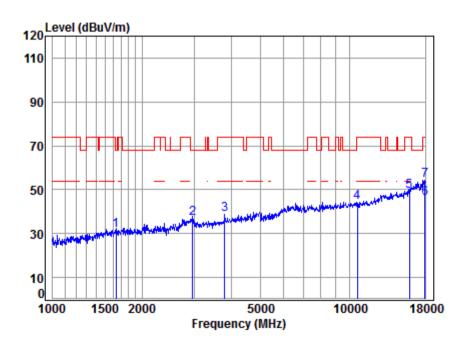
Job No : 10002

Mode : 5270 TX RSE Note : 5G WIFI 11AC40

	F			Preamp					Damanla
	Freq	LOSS	Factor	Factor	rever	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.83	40.94	32.02	74.00	-41.98	peak
2	3415.787	6.38	31.57	42.01	39.41	35.35	68.20	-32.85	peak
3	4341.886	7.38	33.33	43.14	40.75	38.32	74.00	-35.68	peak
4	10540.000	11.32	37.71	38.06	31.38	42.35	68.20	-25.85	peak
5	15810.000	14.71	40.89	40.56	32.47	47.51	74.00	-26.49	peak
6	17948.050	16.08	43.44	40.21	26.90	46.21	54.00	-7.79	Average
7	17948.050	16.08	43.44	40.21	35.41	54.72	74.00	-19.28	peak

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## 4.3.2.1.97 11AC40 MIMO 62 Vertical



Site : chamber Condition: 3m VERTICAL

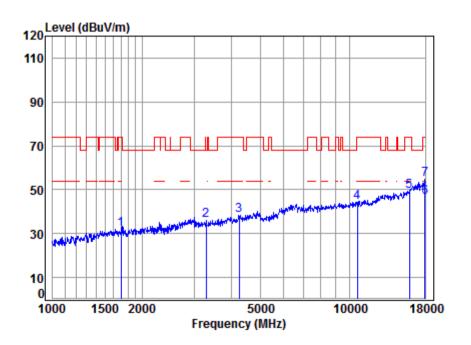
Job No : 10002

Mode : 5310 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1634.543	5.31	26.40	40.79	40.50	31.42	68.20	-36.78	peak
2	2964.712	5.96	30.76	41.39	41.71	37.04	68.20	-31.16	peak
3	3801.333	6.78	32.32	42.51	42.15	38.74	74.00	-35.26	peak
4	10620.000	11.37	37.72	38.10	33.33	44.32	74.00	-29.68	peak
5	15930.000	14.89	40.96	40.54	33.86	49.17	74.00	-24.83	peak
6	17948.050	16.08	43.44	40.21	26.90	46.21	54.00	-7.79	Average
7	17948.050	16.08	43.44	40.21	35.12	54.43	74.00	-19.57	peak

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## 4.3.2.1.98 11AC40 MIMO 62 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

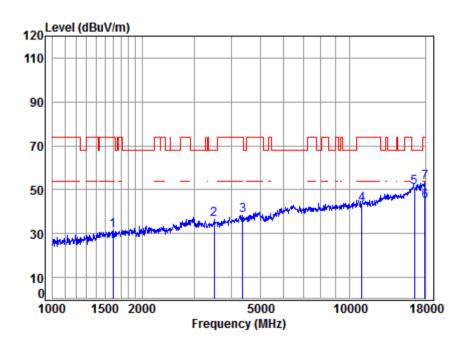
Job No : 10002

Mode : 5310 TX RSE Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	40.83	40.98	32.04	74.00	-41.96	peak
2	3289.821	6.27	31.38	41.83	40.28	36.10	68.20	-32.10	peak
3	4242.641	7.27	33.15	43.03	41.01	38.40	74.00	-35.60	peak
4	10620.000	11.37	37.72	38.10	33.47	44.46	74.00	-29.54	peak
	15930.000								-
6	17948.050	16.08	43.44	40.21	27.11	46.42	54.00	-7.58	Average
7	17948.050	16.08	43.44	40.21	35.46	54.77	74.00	-19.23	peak

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## 4.3.2.1.99 11AC40 MIMO 102 Vertical



Site : chamber Condition: 3m VERTICAL

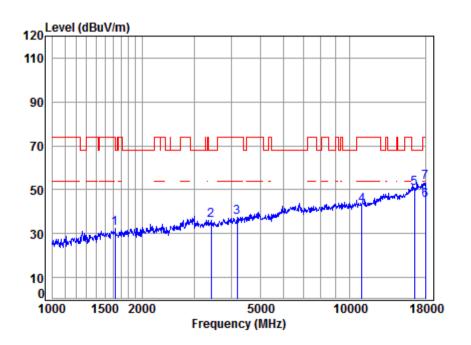
Job No : 10002

Mode : 5510 TX RSE Note : 5G WIFI 11AC40

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	40.77	40.79	31.61	74.00	-42.39	peak
2	3495.691	6.46	31.69	42.12	40.43	36.46	68.20	-31.74	peak
3	4367.058	7.41	33.37	43.16	40.61	38.23	74.00	-35.77	peak
4	11020.000	11.65	37.80	38.28	31.99	43.16	74.00	-30.84	peak
5	16530.000	14.63	42.22	40.43	34.52	50.94	68.20	-17.26	peak
6	17948.050	16.08	43.44	40.21	25.49	44.80	54.00	-9.20	Average
7	17948.050	16.08	43.44	40.21	34.00	53.31	74.00	-20.69	peak

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## 4.3.2.1.100 11AC40 MIMO 102 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

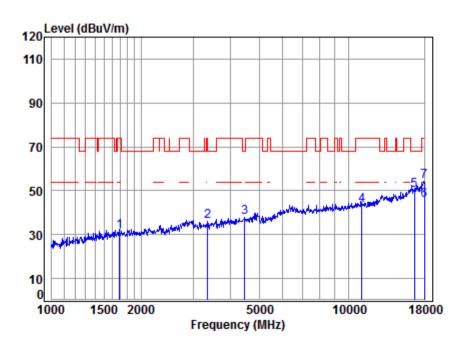
Job No : 10002

Mode : 5510 TX RSE Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	•								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	5.32	26.36	40.79	41.63	32.52	74.00	-41.48	peak
2	3415.787	6.38	31.57	42.01	40.27	36.21	68.20	-31.99	peak
3	4181.768	7.20	33.04	42.96	40.28	37.56	74.00	-36.44	peak
4	11020.000	11.65	37.80	38.28	31.67	42.84	74.00	-31.16	peak
5	16530.000	14.63	42.22	40.43	34.05	50.47	68.20	-17.73	peak
6	18000.000	16.13	43.50	40.20	25.63	45.06	54.00	-8.94	Average
7	18000.000	16.13	43.50	40.20	34.02	53.45	74.00	-20.55	peak

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## 4.3.2.1.101 11AC40 MIMO 110 Vertical



Site : chamber Condition: 3m VERTICAL

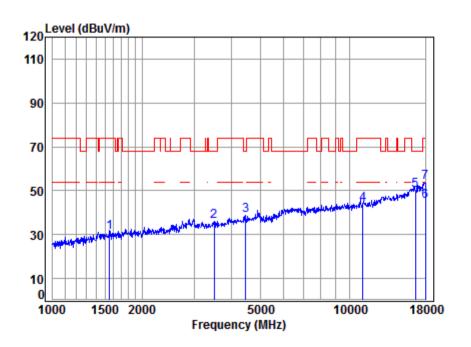
Job No : 10002

Mode : 5550 TX RSE Note : 5G WIFI 11AC40

	F			Preamp					Damanla
	Freq	LOSS	Factor	Factor	rever	rever	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	5.24	26.64	40.83	40.35	31.40	74.00	-42.60	peak
2	3357.061	6.33	31.48	41.93	40.06	35.94	74.00	-38.06	peak
3	4469.214	7.53	33.55	43.27	39.98	37.79	68.20	-30.41	peak
4	11100.000	11.73	37.82	38.32	32.00	43.23	74.00	-30.77	peak
5	16650.000	15.17	42.32	40.41	33.02	50.10	68.20	-18.10	peak
6	18000.000	16.13	43.50	40.20	26.01	45.44	54.00	-8.56	Average
7	18000.000	16.13	43.50	40.20	34.75	54.18	74.00	-19.82	peak

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## 4.3.2.1.102 11AC40 MIMO 110 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

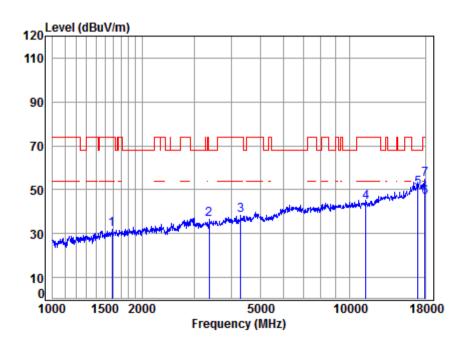
Job No : 10002

Mode : 5550 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1551.677	5.41	26.04	40.74	40.21	30.92	74.00	-43.08	peak
2	3495.691	6.46	31.69	42.12	39.90	35.93	68.20	-32.27	peak
3	4469.214	7.53	33.55	43.27	41.19	39.00	68.20	-29.20	peak
4	11100.000	11.73	37.82	38.32	32.54	43.77	74.00	-30.23	peak
5	16650.000	15.17	42.32	40.41	33.29	50.37	68.20	-17.83	peak
6	18000.000	16.13	43.50	40.20	25.69	45.12	54.00	-8.88	Average
	18000.000								_

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## 4.3.2.1.103 11AC40\_MIMO\_134\_ Vertical



Site : chamber Condition: 3m VERTICAL

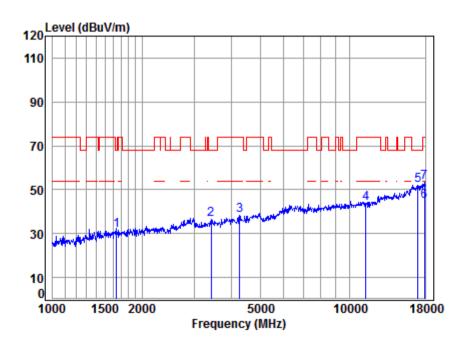
Job No : 10002

Mode : 5670 TX RSE Note : 5G WIFI 11AC40

	Frea			Preamp Factor					Romank
	rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIT	Kelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	5.37	26.18	40.76	41.02	31.81	74.00	-42.19	peak
2	3366.778	6.34	31.50	41.94	40.59	36.49	68.20	-31.71	peak
3	4304.400	7.34	33.26	43.10	40.78	38.28	74.00	-35.72	peak
4	11340.000	11.98	37.87	38.42	32.78	44.21	74.00	-29.79	peak
5	17010.000	16.69	42.61	40.36	31.60	50.54	68.20	-17.66	peak
6	17948.050	16.08	43.44	40.21	27.26	46.57	54.00	-7.43	Average
7	17948.050	16.08	43.44	40.21	35.61	54.92	74.00	-19.08	peak

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## 4.3.2.1.104 11AC40\_MIMO\_134\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

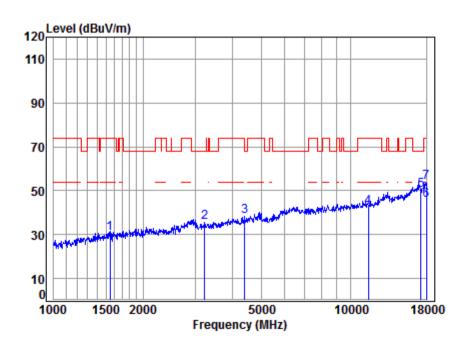
Job No : 10002

Mode : 5670 TX RSE Note : 5G WIFI 11AC40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	5.30	26.42	40.79	40.38	31.31	68.20	-36.89	peak
2	3425.675	6.39	31.59	42.02	40.43	36.39	68.20	-31.81	peak
3	4267.237	7.30	33.19	43.06	40.84	38.27	74.00	-35.73	peak
4	11340.000	11.98	37.87	38.42	32.23	43.66	74.00	-30.34	peak
5	17010.000	16.69	42.61	40.36	32.91	51.85	68.20	-16.35	peak
6	17896.250	16.02	43.38	40.22	25.59	44.77	54.00	-9.23	Average
7	17896.250	16.02	43.38	40.22	34.07	53.25	74.00	-20.75	peak

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## 4.3.2.1.105 11AC40\_MIMO\_151\_ Vertical



Site : chamber Condition: 3m VERTICAL

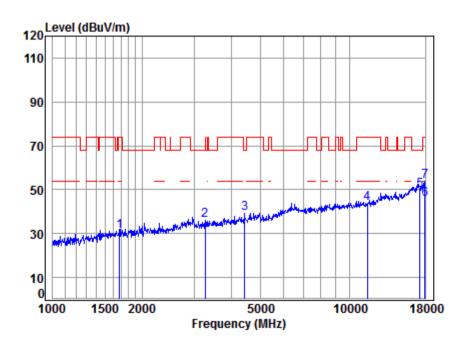
Job No : 10002

Mode : 5755 TX RSE Note : 5G WIFI 11AC40

	F			Preamp					Damanla
	Freq	LOSS	Factor	Factor	rever	rever	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	5.42	26.02	40.74	39.98	30.68	74.00	-43.32	peak
2	3223.928	6.20	31.27	41.74	40.06	35.79	68.20	-32.41	peak
3	4405.090	7.46	33.44	43.20	40.44	38.14	68.20	-30.06	peak
4	11510.000	12.14	37.90	38.49	31.05	42.60	74.00	-31.40	peak
5	17265.000	16.12	42.76	40.31	31.64	50.21	68.20	-17.99	peak
6	18000.000	16.13	43.50	40.20	26.14	45.57	54.00	-8.43	Average
7	18000.000	16.13	43.50	40.20	34.25	53.68	74.00	-20.32	peak

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Site : chamber

Condition: 3m HORIZONTAL

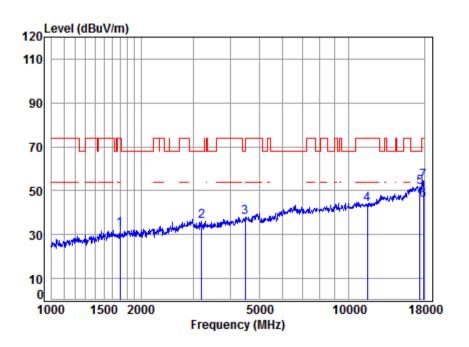
Job No : 10002

Mode : 5755 TX RSE Note : 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		,						
1677.621	5.25	26.58	40.82	40.15	31.16	74.00	-42.84	peak
3261.418	6.24	31.33	41.79	40.06	35.84	74.00	-38.16	peak
4430.628	7.48	33.48	43.23	41.39	39.12	68.20	-29.08	peak
11510.000	12.14	37.90	38.49	32.20	43.75	74.00	-30.25	peak
17265.000	16.12	42.76	40.31	31.24	49.81	68.20	-18.39	peak
17948.050	16.08	43.44	40.21	26.11	45.42	54.00	-8.58	Average
17948.050	16.08	43.44	40.21	34.35	53.66	74.00	-20.34	peak
	MHz 1677.621 3261.418 4430.628 11510.000 17265.000 17948.050	Freq Loss  MHz dB  1677.621 5.25 3261.418 6.24 4430.628 7.48 11510.000 12.14 17265.000 16.12 17948.050 16.08	Freq Loss Factor  MHz dB dB/m  1677.621 5.25 26.58 3261.418 6.24 31.33 4430.628 7.48 33.48 11510.000 12.14 37.90 17265.000 16.12 42.76 17948.050 16.08 43.44	Freq Loss Factor Factor  MHz dB dB/m dB  1677.621 5.25 26.58 40.82 3261.418 6.24 31.33 41.79 4430.628 7.48 33.48 43.23 11510.000 12.14 37.90 38.49 17265.000 16.12 42.76 40.31 17948.050 16.08 43.44 40.21	Freq Loss Factor Factor Level  MHz dB dB/m dB dBuV  1677.621 5.25 26.58 40.82 40.15 3261.418 6.24 31.33 41.79 40.06 4430.628 7.48 33.48 43.23 41.39 11510.000 12.14 37.90 38.49 32.20 17265.000 16.12 42.76 40.31 31.24 17948.050 16.08 43.44 40.21 26.11	Freq Loss Factor Factor Level Level  MHz dB dB/m dB dB dBuV dBuV/m  1677.621 5.25 26.58 40.82 40.15 31.16 3261.418 6.24 31.33 41.79 40.06 35.84 4430.628 7.48 33.48 43.23 41.39 39.12 11510.000 12.14 37.90 38.49 32.20 43.75 17265.000 16.12 42.76 40.31 31.24 49.81 17948.050 16.08 43.44 40.21 26.11 45.42	MHz dB dB/m dB dBuV dBuV/m dBuV/m  1677.621 5.25 26.58 40.82 40.15 31.16 74.00 3261.418 6.24 31.33 41.79 40.06 35.84 74.00 4430.628 7.48 33.48 43.23 41.39 39.12 68.20 11510.000 12.14 37.90 38.49 32.20 43.75 74.00 17265.000 16.12 42.76 40.31 31.24 49.81 68.20 17948.050 16.08 43.44 40.21 26.11 45.42 54.00	Freq Loss Factor Factor Level Level Line Limit

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## 4.3.2.1.107 11AC40 MIMO 159 Vertical



Site : chamber Condition: 3m VERTICAL

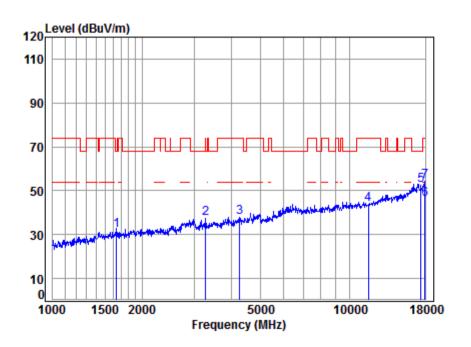
Job No : 10002

Mode : 5795 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.83	41.54	32.62	74.00	-41.38	peak
2	3205.345	6.19	31.24	41.71	40.39	36.11	68.20	-32.09	peak
3	4482.150	7.54	33.57	43.29	40.06	37.88	68.20	-30.32	peak
4	11590.000	12.17	37.86	38.53	32.44	43.94	74.00	-30.06	peak
5	17385.000	15.85	42.83	40.30	33.13	51.51	68.20	-16.69	peak
6	17896.250	16.02	43.38	40.22	26.54	45.72	54.00	-8.28	Average
7	17896.250	16.02	43.38	40.22	34.90	54.08	74.00	-19.92	peak

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Site : chamber

Condition: 3m HORIZONTAL

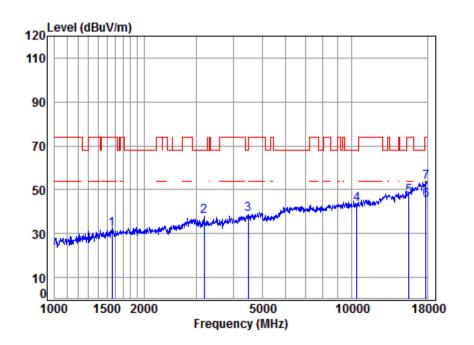
Job No : 10002

Mode : 5795 TX RSE Note : 5G WIFI 11AC40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	5.30	26.44	40.80	40.80	31.74	68.20	-36.46	peak
2	3280.326	6.26	31.36	41.82	41.39	37.19	68.20	-31.01	peak
3	4267.237	7.30	33.19	43.06	40.23	37.66	74.00	-36.34	peak
4	11590.000	12.17	37.86	38.53	32.35	43.85	74.00	-30.15	peak
5	17385.000	15.85	42.83	40.30	34.28	52.66	68.20	-15.54	peak
6	17948.050	16.08	43.44	40.21	26.94	46.25	54.00	-7.75	Average
7	17948.050	16.08	43.44	40.21	35.02	54.33	74.00	-19.67	peak

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## 4.3.2.1.109 11AC80 MIMO 42 Vertical



Site : chamber Condition: 3m VERTICAL

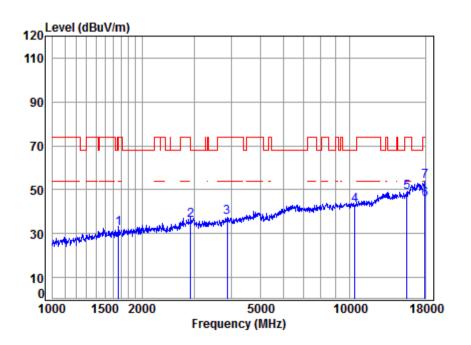
Job No : 10002

Mode : 5210 TX RSE Note : 5G WIFI 11AC80

	-			Preamp					ъ
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	5.40	26.08	40.75	41.21	31.94	74.00	-42.06	peak
2	3186.869	6.17	31.21	41.68	42.00	37.70	68.20	-30.50	peak
3	4495.125	7.55	33.59	43.30	40.83	38.67	68.20	-29.53	peak
4	10420.000	11.24	37.73	38.00	32.24	43.21	68.20	-24.99	peak
5	15630.000	14.44	40.78	40.59	32.49	47.12	74.00	-26.88	peak
6	17844.590	15.97	43.32	40.22	25.91	44.98	54.00	-9.02	Average
7	17844.590	15.97	43.32	40.22	34.40	53.47	74.00	-20.53	peak

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## 4.3.2.1.110 11AC80 MIMO 42 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

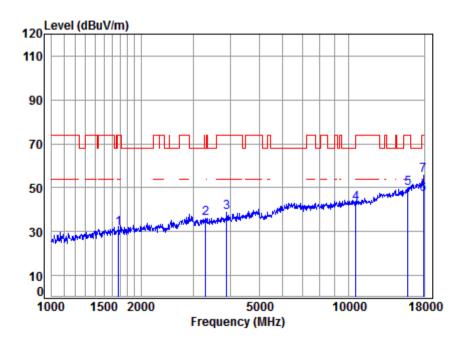
Job No : 10002

Mode : 5210 TX RSE Note : 5G WIFI 11AC80

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	40.81	41.21	32.21	74.00	-41.79	peak
2	2922.174	5.93	30.58	41.37	40.72	35.86	68.20	-32.34	peak
3	3867.831	6.85	32.45	42.59	40.70	37.41	74.00	-36.59	peak
4	10420.000	11.24	37.73	38.00	31.93	42.90	68.20	-25.30	peak
5	15630.000	14.44	40.78	40.59	34.19	48.82	74.00	-25.18	peak
6	17948.050	16.08	43.44	40.21	26.15	45.46	54.00	-8.54	Average
7	17948.050	16.08	43.44	40.21	34.67	53.98	74.00	-20.02	peak

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## 4.3.2.1.111 11AC80\_MIMO\_58\_ Vertical



Site : chamber Condition: 3m VERTICAL

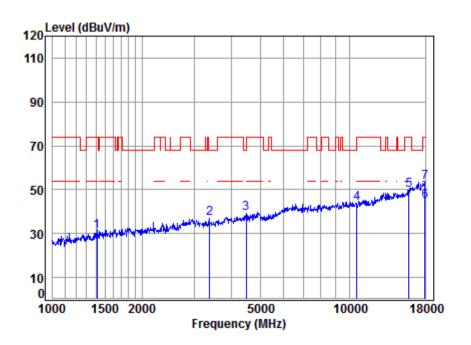
Job No : 10002

Mode : 5290 TX RSE Note : 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB		dB				——dB	
1	1677.621	5.25	26.58	40.82	40.30	31.31	74.00	-42.69	peak
2	3308.894	6.29	31.41	41.86	40.25	36.09	68.20	-32.11	peak
3	3890.255	6.87	32.49	42.62	42.00	38.74	74.00	-35.26	peak
4	10580.000	11.35	37.72	38.08	31.74	42.73	68.20	-25.47	peak
5	15870.000	14.80	40.92	40.55	34.45	49.62	74.00	-24.38	peak
6	17896.250	16.02	43.38	40.22	28.03	47.21	54.00	-6.79	Average
7	17896.250	16.02	43.38	40.22	36.34	55.52	74.00	-18.48	peak

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#### 



Site : chamber

Condition: 3m HORIZONTAL

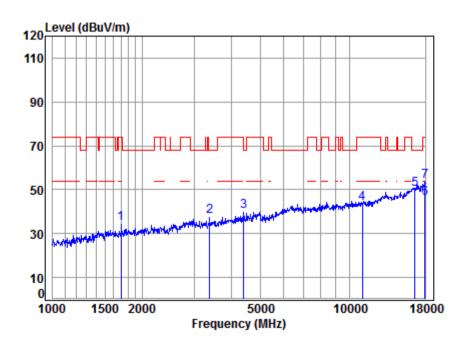
Job No : 10002

Mode : 5290 TX RSE Note : 5G WIFI 11AC80

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1410.514	5.19	25.47	40.64	41.09	31.11	74.00	-42.89	peak
2	3376.523	6.35	31.51	41.96	40.94	36.84	68.20	-31.36	peak
3	4482.150	7.54	33.57	43.29	41.25	39.07	68.20	-29.13	peak
4	10580.000	11.35	37.72	38.08	32.62	43.61	68.20	-24.59	peak
5	15870.000	14.80	40.92	40.55	34.69	49.86	74.00	-24.14	peak
6	17948.050	16.08	43.44	40.21	25.59	44.90	54.00	-9.10	Average
7	17948.050	16.08	43.44	40.21	34.08	53.39	74.00	-20.61	peak

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## 4.3.2.1.113 11AC80\_MIMO\_106\_ Vertical



Site : chamber Condition: 3m VERTICAL

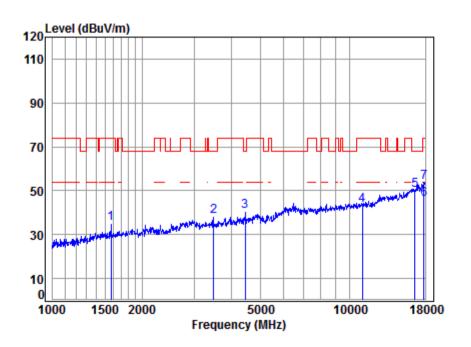
Job No : 10002

Mode : 5530 TX RSE Note : 5G WIFI 11AC80

	Erea			Preamp Factor					Remark
	TTEG	LUSS	ractor	i ac coi	Level	LEVEI	LINE	LIMIC	Kellidi K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5 23	26 66	10 83	13 62	3/1 68	7/ 00	-39 32	neak
2	3376.523								•
3	4405.090								•
4	11060.000	11.69	37.81	38.30	32.43	43.63	74.00	-30.37	peak
5	16590.000	14.90	42.27	40.42	33.53	50.28	68.20	-17.92	peak
6	17948.050	16.08	43.44	40.21	26.83	46.14	54.00	-7.86	Average
7	17948.050	16.08	43.44	40.21	34.69	54.00	74.00	-20.00	peak

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## 4.3.2.1.114 11AC80 MIMO 106 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

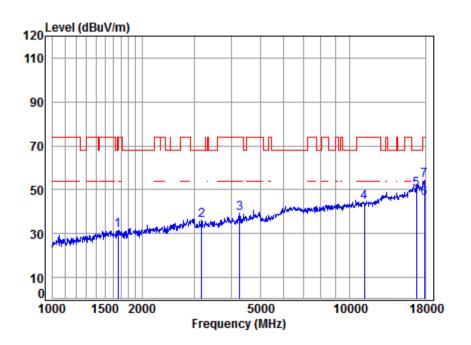
Job No : 10002

Mode : 5530 TX RSE Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
							<del></del>		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574 265	E 30	26 14	40 7E	44 FQ	25 27	74.00	20 72	maale
1	1574.265	5.50	20.14	40.75	44.50	33.27	74.00	-30./3	peak
2	3485.601	6.45	31.68	42.10	42.39	38.42	68.20	-29.78	peak
3	4456.315	7.51	33.53	43.26	42.91	40.69	68.20	-27.51	peak
4	11060.000	11.69	37.81	38.30	32.23	43.43	74.00	-30.57	peak
5	16590.000	14.90	42.27	40.42	33.25	50.00	68.20	-18.20	peak
6	17793.090	15.91	43.25	40.23	27.00	45.93	54.00	-8.07	Average
7	17793.090	15.91	43.25	40.23	34.98	53.91	74.00	-20.09	peak

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## 4.3.2.1.115 11AC80 MIMO 122 Vertical



Site : chamber Condition: 3m VERTICAL

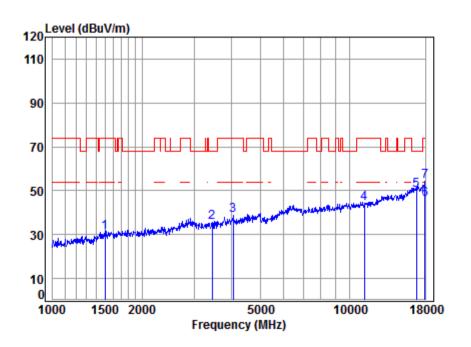
Job No : 10002

Mode : 5610 TX RSE Note : 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1663.137	5.27	26.52	40.81	40.67	31.65	74.00	-42.35	peak
2	3177.672	6.16	31.20	41.67	40.30	35.99	68.20	-32.21	peak
3	4267.237	7.30	33.19	43.06	41.67	39.10	74.00	-34.90	peak
4	11220.000								-
5	16830.000	15.97	42.47	40.38	32.30	50.36	68.20	-17.84	peak
6	17896.250	16.02	43.38	40.22	26.96	46.14	54.00	-7.86	Average
7	17896.250	16.02	43.38	40.22	35.15	54.33	74.00	-19.67	peak

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Site : chamber

Condition: 3m HORIZONTAL

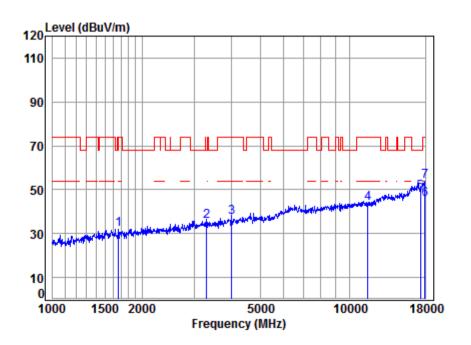
Job No : 10002

Mode : 5610 TX RSE Note : 5G WIFI 11AC80

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	40.71	40.53	31.10	74.00	-42.90	peak
2	3445.535								•
3	4062.629	7.06	32.82	42.82	41.84	38.90	74.00	-35.10	peak
4	11220.000	11.86	37.84	38.37	33.08	44.41	74.00	-29.59	peak
5	16830.000	15.97	42.47	40.38	31.99	50.05	68.20	-18.15	peak
6	17948.050	16.08	43.44	40.21	26.91	46.22	54.00	-7.78	Average
7	17948.050	16.08	43.44	40.21	35.15	54.46	74.00	-19.54	peak

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### 



Site : chamber Condition: 3m VERTICAL

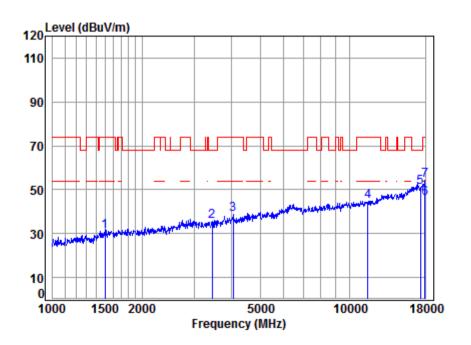
Job No : 10002

Mode : 5775 TX RSE Note : 5G WIFI 11AC80

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	40.81	40.97	31.97	74.00	-42.03	peak
2	3299.344	6.28	31.39	41.85	39.75	35.57	68.20	-32.63	peak
3	4004.339	6.99	32.71	42.76	40.47	37.41	74.00	-36.59	peak
4	11550.000	12.16	37.88	38.51	32.19	43.72	74.00	-30.28	peak
5	17325.000	15.98	42.80	40.30	30.44	48.92	68.20	-19.28	peak
6	17948.050	16.08	43.44	40.21	26.30	45.61	54.00	-8.39	Average
7	17948.050	16.08	43.44	40.21	34.35	53.66	74.00	-20.34	peak

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#### 



Site : chamber

Condition: 3m HORIZONTAL

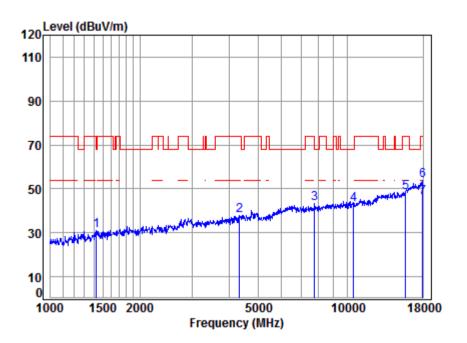
Job No : 10002

Mode : 5775 TX RSE Note : 5G WIFI 11AC80

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	40.71	40.53	31.10	74.00	-42.90	peak
2	3445.535	6.41	31.62	42.05	39.64	35.62	68.20	-32.58	peak
3	4062.629	7.06	32.82	42.82	41.84	38.90	74.00	-35.10	peak
4	11550.000	12.16	37.88	38.51	33.06	44.59	74.00	-29.41	peak
5	17325.000	15.98	42.80	40.30	32.61	51.09	68.20	-17.11	peak
6	17948.050	16.08	43.44	40.21	26.67	45.98	54.00	-8.02	Average
7	17948.050	16.08	43.44	40.21	35.15	54.46	74.00	-19.54	peak

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## 4.3.2.1.119 11AC160\_MIMO\_50\_Vertical



Site : chamber Condition: 3m VERTICAL

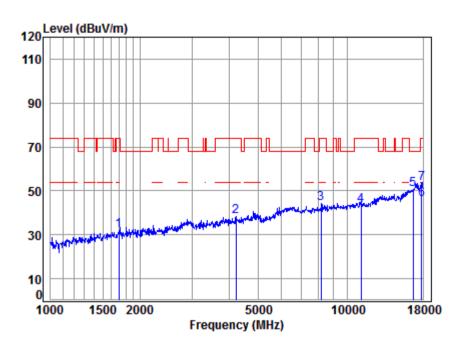
Job No : 10002

Mode : 5250 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1426.916	5.24	25.53	40.66	41.03	31.14	74.00	-42.86	peak
2	4341.886	7.38	33.33	43.14	40.30	37.87	74.00	-36.13	peak
3	7762.260	9.97	36.51	41.46	38.14	43.16	68.20	-25.04	peak
4	10500.000	11.29	37.70	38.04	32.10	43.05	68.20	-25.15	peak
5	15750.000	14.62	40.85	40.57	33.49	48.39	74.00	-25.61	peak
6	17948.050	16.08	43.44	40.21	34.71	54.02	74.00	-19.98	Peak
7	17948.050	16.08	43.44	40.21	26.97	46.28	54.00	-7.72	Average

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## 4.3.2.1.120 11AC160 MIMO 114 Vertical



Site : chamber Condition: 3m VERTICAL

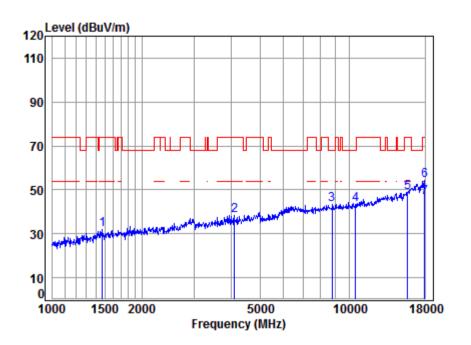
Job No : 10002

Mode : 5570 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1697.129	5.23	26.66	40.83	40.86	31.92	74.00	-42.08	peak
2	4218.186	7.24	33.11	43.00	40.86	38.21	74.00	-35.79	peak
3	8176.795	10.07	36.81	40.96	38.26	44.18	74.00	-29.82	peak
4	11140.000	11.78	37.83	38.33	31.99	43.27	74.00	-30.73	peak
5	16710.000	15.44	42.37	40.40	33.21	50.62	68.20	-17.58	peak
	17844.590								•
	17844.590								_

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## 4.3.2.1.121 11AC160 MIMO 50 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

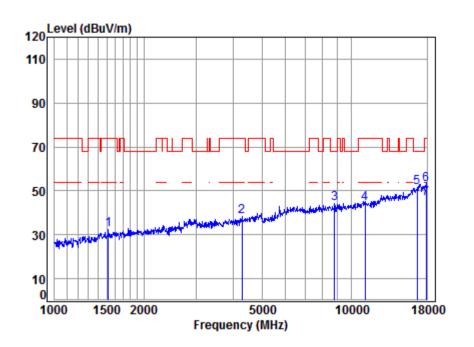
Job No : 10002

Mode : 5250 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1473.013	5.39	25.70	40.69	41.76	32.16	74.00	-41.84	peak
2	4098.010	7.10	32.88	42.87	41.28	38.39	74.00	-35.61	peak
3	8764.146	10.34	37.11	39.87	35.67	43.25	68.20	-24.95	peak
4	10500.000	11.29	37.70	38.04	32.52	43.47	68.20	-24.73	peak
5	15750.000	14.62	40.85	40.57	33.84	48.74	74.00	-25.26	peak
6	17948.050	16.08	43.44	40.21	35.01	54.32	74.00	-19.68	Peak
7	17948.050	16.08	43.44	40.21	27.25	46.56	54.00	-7.44	Average

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## 4.3.2.1.122 11AC160 MIMO 114 Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5570 TX RSE

	Enoa			Preamp Factor					Pomank
	rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIT	Kelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5.45	25.89	40.72	41.78	32.40	74.00	-41.60	peak
2	4291.977	7.33	33.24	43.08	40.85	38.34	74.00	-35.66	peak
3	8789.516	10.35	37.12	39.82	36.48	44.13	68.20	-24.07	peak
4	11140.000	11.78	37.83	38.33	33.06	44.34	74.00	-29.66	peak
5	16710.000	15.44	42.37	40.40	33.94	51.35	68.20	-16.85	peak
6	17896.250	16.02	43.38	40.22	33.86	53.04	74.00	-20.96	Peak
7	17896.250	16.02	43.38	40.22	27.23	46.41	54.00	-7.59	Average

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### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

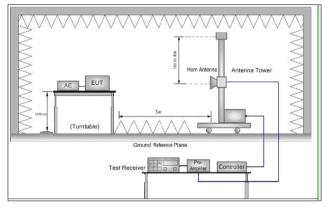
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All modes have been tested, but only the worst case data displayed in this report.

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# 4.4 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section	15.407(b)		
Test Method:	ANSI C63.10: 2013			
Test Site:	Measurement Distance:	3m (Semi-Anechoic Chamb	er)	
Limit:	Frequency	Limit (dBuV/m @3m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak Value	
	88MHz-216MHz	43.5	Quasi-peak Value	
	216MHz-960MHz	46.0	Quasi-peak Value	
	960MHz-1GHz	54.0	Quasi-peak Value	
	Above 1GHz	54.0	Average Value	
	Above IGHZ	74.0	Peak Value	
Test Setup:				

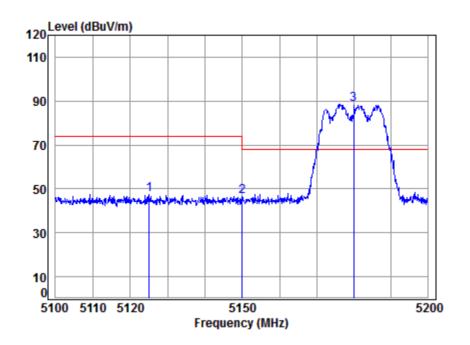


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a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.  b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.  d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel  g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11ac(HT20); MCSACO of rate is the worst case of 802.11ac(HT20); MCSACO of rate is the worst case of 802.11ac(HT40); MCSACO of rate is the worst case of 802.11ac(HT80); Only the worst case is recorded in the report.  Instruments Used:  Refer to section 5.10 for details							
Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Instruments Used:  Refer to section 5.10 for details	Test Procedure:	<ul> <li>the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>g. Test the EUT in the outermost channels.</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>i. Repeat above procedures until all frequencies measured was</li> </ul>					
Final Test Mode:  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details							
MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details	. mai i oot wood.	-					
MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details		·					
MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details		` ,					
MCSAC0 of rate is the worst case of 802.11ac(HT80); MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details		· · · · · · · · · · · · · · · · · · ·					
MCSAC0 of rate is the worst case of 802.11ac(HT160); Only the worst case is recorded in the report.  Refer to section 5.10 for details		MCSAC0 of rate is the worst case of 802.11ac(HT40);					
Only the worst case is recorded in the report.  Refer to section 5.10 for details		MCSAC0 of rate is the worst case of 802.11ac(HT80);					
Instruments Used: Refer to section 5.10 for details		MCSAC0 of rate is the worst case of 802.11ac(HT160);					
		Only the worst case is recorded in the report.					
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details					
	Test Results:	Pass					

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# 4.4.1 CDD & MIMO 4.4.1.1 11A20\_CDD\_36\_Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5180 Band edge

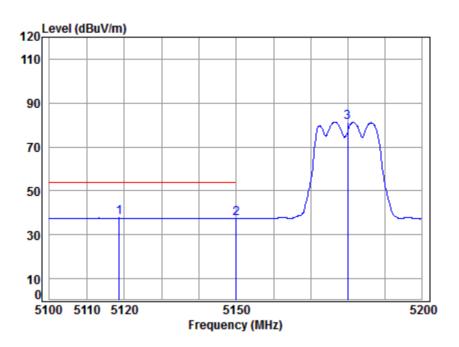
: 5G WIFI 11A

: CDD

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5125.017	8.29	34.30	43.67	48.71	47.63	74.00	-26.37	peak
2	5149.980	8.33	34.32	43.64	47.47	46.48	74.00	-27.52	peak
3 *	5180,000	8.37	34.35	43.61	89.47	88.58	68.20	20.38	peak

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## 4.4.1.2 11A20\_CDD\_36\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

Mode : 5180 Band edge

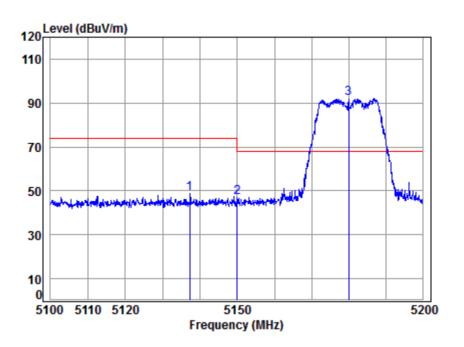
: 5G WIFI 11A

: CDD

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5118.652	8.28	34.30	43.68	38.77	37.67	54.00	-16.33	Average	
5149.980	8.33	34.32	43.64	38.56	37.57	54.00	-16.43	Average	
5180.000	8.37	34.35	43.61	82.27	81.38			Average	

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### 4.4.1.3 11A20 CDD 36 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

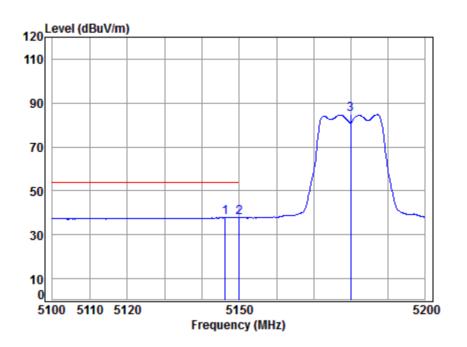
Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.272	8.31	34.31	43.66	49.79	48.75	74.00	-25.25	peak
2	5149.980	8.33	34.32	43.64	47.89	46.90	74.00	-27.10	peak
3	* 5180.000	8.37	34.35	43.61	93.02	92.13	68.20	23.93	peak

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### 4.4.1.4 11A20\_CDD\_36\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

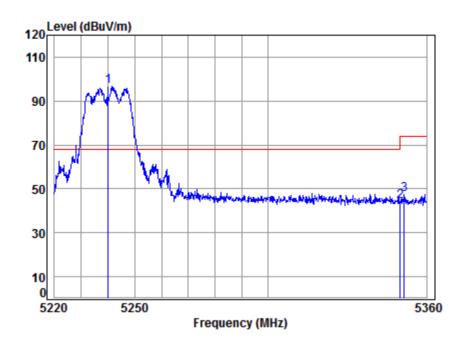
Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5146.258	8.32	34.32	43.65	38.92	37.91	54.00	-16.09	Average	
2	5149.980	8.33	34.32	43.64	38.83	37.84	54.00	-16.16	Average	
3	5180.000	8.37	34.35	43.61	85.61	84.72			Average	

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### 4.4.1.5 11A20 CDD 48 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

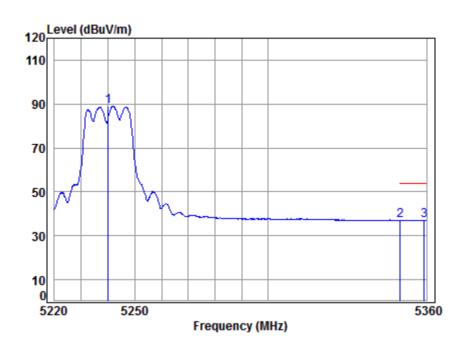
Mode : 5240 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5240.000	8.46	34.40	43.55	97.19	96.50	68.20	28.30	peak	
5350.020	8.63	34.48	43.44	44.78	44.45	74.00	-29.55	peak	
5351.495	8.63	34.49	43.44	47.93	47.61	74.00	-26.39	peak	

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### 4.4.1.6 11A20\_CDD\_48\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

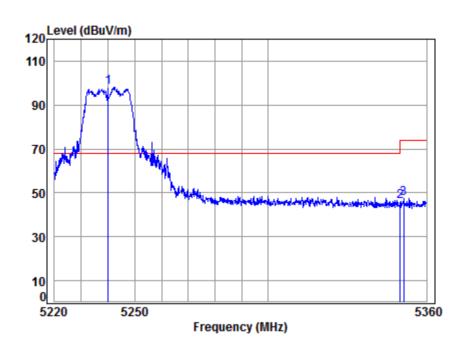
Mode : 5240 Band edge

: 5G WIFI 11A

		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	8.46	34.40	43.55	89.54	88.85			Average	
2	5350.020	8.63	34.48	43.44	37.34	37.01	54.00	-16.99	Average	
3	5359.149	8.64	34.49	43.43	37.34	37.04	54.00	-16.96	Average	

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### 4.4.1.7 11A20 CDD 48 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

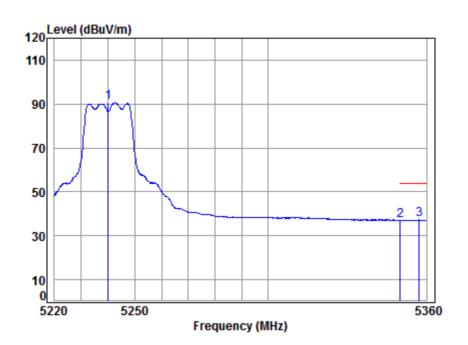
Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5240.000								•	
2	5350.020	8.63	34.48	43.44	46.60	46.27	74.00	-27.73	peak	
3	5351.354	8.63	34.49	43.44	47.73	47.41	74.00	-26.59	peak	

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### 4.4.1.8 11A20\_CDD\_48\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

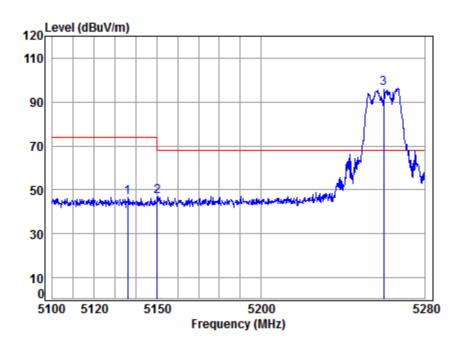
Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	8.46	34.40	43.55	91.29	90.60			Average	
2	5350.020	8.63	34.48	43.44	37.48	37.15	54.00	-16.85	Average	
3	5357.305	8.64	34.49	43.43	37.51	37.21	54.00	-16.79	Average	

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### 4.4.1.9 11A20 CDD 52 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

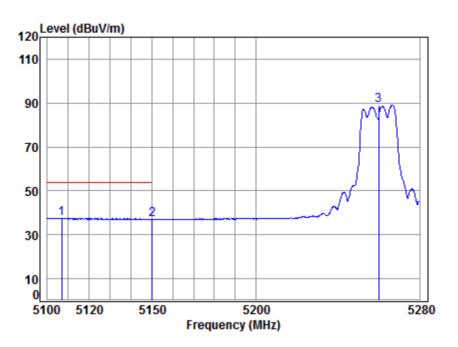
Mode : 5260 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5136.037								•
	5149.980								•
3 *	5260.000	8.49	34.41	43.53	96.88	96.25	68.20	28.05	peak

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### 4.4.1.10 11A20\_CDD\_52\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

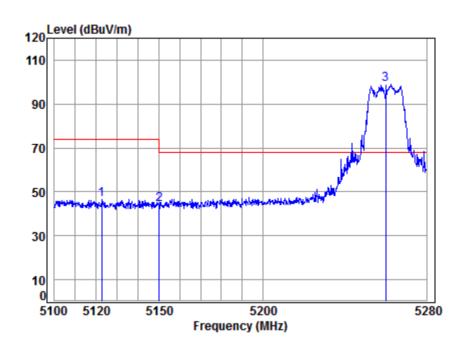
Mode : 5260 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5106.904 5149.980								_	
5260.000								Average	

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### 4.4.1.11 11A20 CDD 52 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

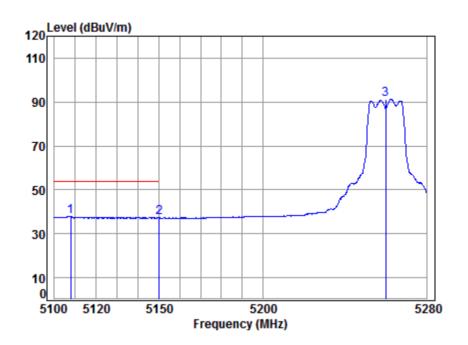
Mode : 5260 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5122.516								•
2	5149.980	8.33	34.32	43.64	45.06	44.07	74.00	-29.93	peak
3 *	5260.000	8.49	34.41	43.53	99.53	98.90	68.20	30.70	peak

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### 4.4.1.12 11A20\_CDD\_52\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

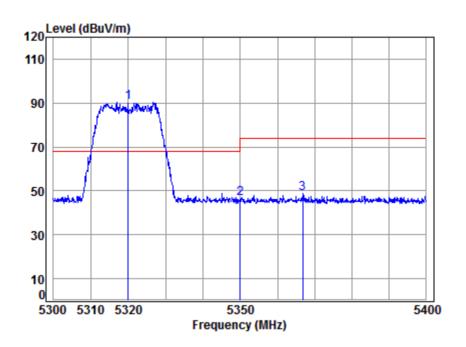
Mode : 5260 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5107.790	8.26	34.29	43.69	39.12	37.98	54.00	-16.02	Average	
2	5149.980	8.33	34.32	43.64	38.24	37.25	54.00	-16.75	Average	
3	5260.000	8.49	34.41	43.53	91.79	91.16			Average	

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### 4.4.1.13 11A20 CDD 64 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

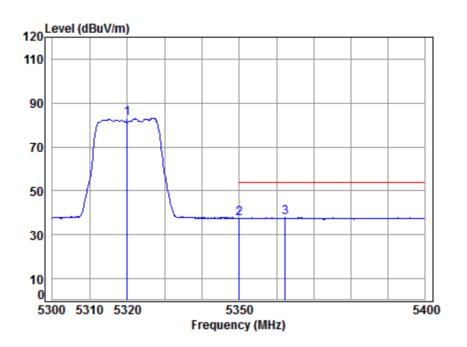
Mode : 5320 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5320.000									
5350.020	8.63	34.48	43.44	46.88	46.55	74.00	-27.45	Peak	
5366.793	8.65	34.50	43.42	49.16	48.89	74.00	-25.11	Peak	

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### 4.4.1.14 11A20\_CDD\_64\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

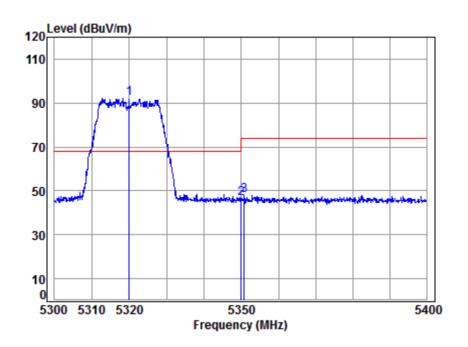
Mode : 5320 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5320.000	8.58	34.46	43.47	83.57	83.14			Average	
5350.020	8.63	34.48	43.44	37.90	37.57	54.00	-16.43	Average	
5362.381	8.65	34.49	43.43	38.07	37.78	54.00	-16.22	Average	

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

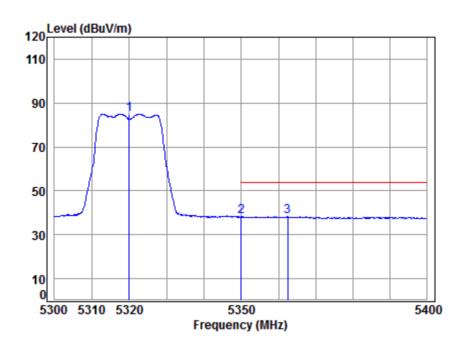
Mode : 5320 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	* 5320.000								-	
	5350.020								•	
3	5350.767	8.63	34.48	43.44	48.08	47.75	74.00	-26.25	peak	

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### 4.4.1.16 11A20\_CDD\_64\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

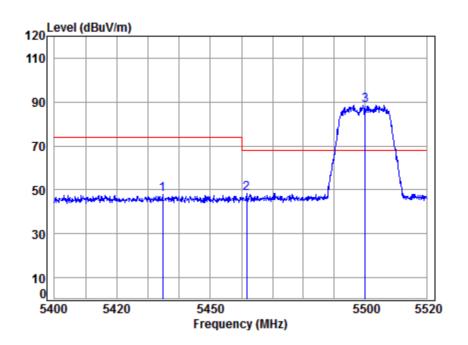
Mode : 5320 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5320.000	8.58	34.46	43.47	85.47	85.04			Average	
5350.020	8.63	34.48	43.44	38.48	38.15	54.00	-15.85	Average	
5362.481	8.65	34.49	43.43	38.63	38.34	54.00	-15.66	Average	

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### 4.4.1.17 11A20 CDD 100 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

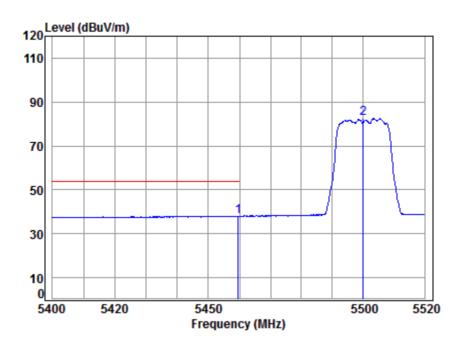
Mode : 5500 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	5434.648	8.75	34.55	43.36	48.08	48.02	74.00	-25.98	Peak	
2	5461.710	8.79	34.57	43.33	48.50	48.53	68.20	-19.67	peak	
3 *	5500.000	8.85	34.60	43.29	88.40	88.56	68.20	20.36	Peak	

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### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

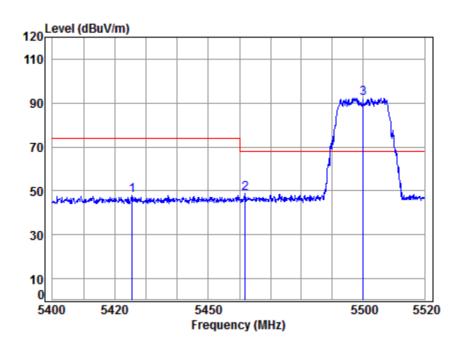
Mode : 5500 Band edge

: 5G WIFI 11A

Freq			Preamp Factor						
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5459.670	8.79	34.57	43.33	38.01	38.04	54.00	-15.96	Average	
5500.000	8.85	34.60	43.29	82.31	82.47			Average	

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### 4.4.1.19 11A20\_CDD\_100\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

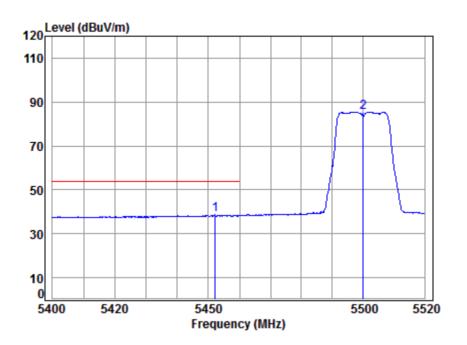
Mode : 5500 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5425.578								•	
2	5461.831	8.79	34.57	43.33	48.75	48.78	68.20	-19.42	peak	
3 :	* 5500.000	8.85	34.60	43.29	92.18	92.34	68.20	24.14	peak	

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### 4.4.1.20 11A20\_CDD\_100\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

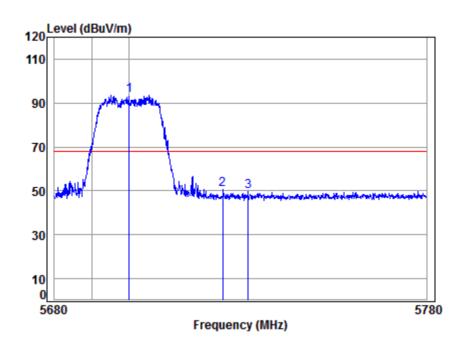
Mode : 5500 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5452.116								_	
5500.000	8.85	34.60	43.29	85.35	85.51			Average	

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### 4.4.1.21 11A20 CDD 140 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

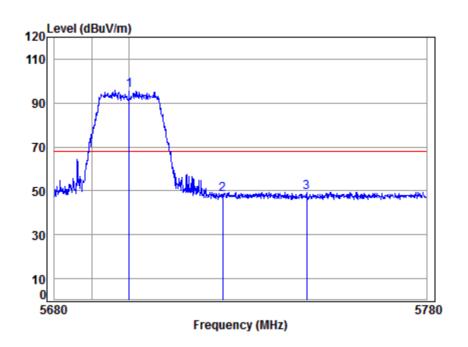
Mode : 5700 Band edge

: 5G WIFI 11A

				Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 570									
2 572 3 573									

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### 4.4.1.22 11A20 CDD 140 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

Mode : 5700 Band edge

: 5G WIFI 11A

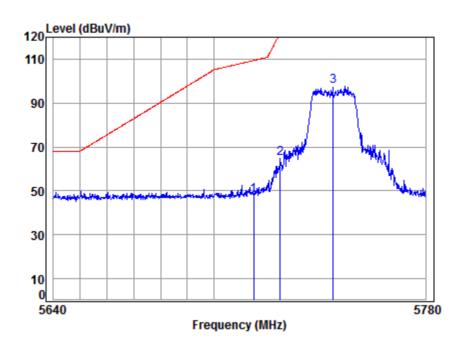
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
* 5700.000								-
5725.000 5747.609								•

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### 4.4.1.23 11A20 CDD 149 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

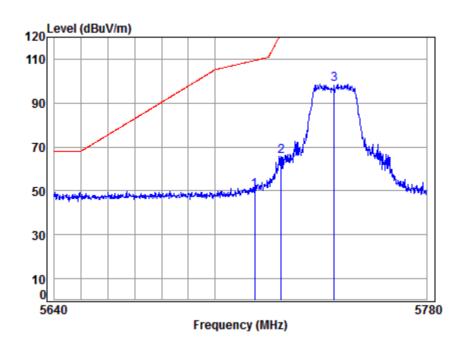
Mode : 5745 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5715.000 5725.000								•	
5745.000								•	

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### 4.4.1.24 11A20 CDD 149 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

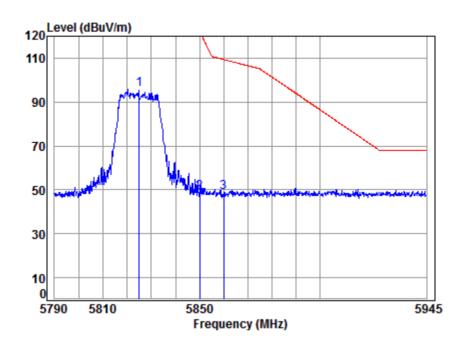
Mode : 5745 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5715.000 5725.000 5745.000	9.64	34.83	43.08	64.27	65.66	122.20	-56.54	peak

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### 4.4.1.25 11A20 CDD 165 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

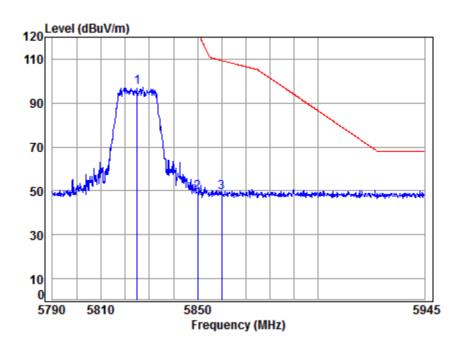
Mode : 5825 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000	9.98	34.93	42.99	94.01	95.93	125.20	-29.27	peak
5850.000	10.07	34.95	42.96	46.70	48.76	122.20	-73.44	peak
5860.000	10.10	34.96	42.96	46.82	48.92	109.40	-60.48	peak

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### 4.4.1.26 11A20 CDD 165 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

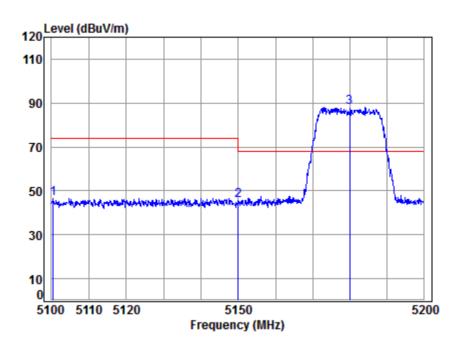
Mode : 5825 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5825.000	9.98	34.93	42.99	95.05	96.97	125.20	-28.23	peak	
5850.000	10.07	34.95	42.96	47.43	49.49	122.20	-72.71	peak	
5860.000	10.10	34.96	42.96	47.13	49.23	109.40	-60.17	peak	

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### 4.4.1.27 11N20 MIMO 36 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

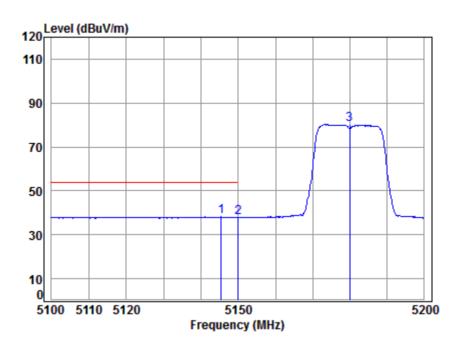
Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5100.495	8.25	34.28	43.69	47.75	46.59	74.00	-27.41	peak	
2	5149.980	8.33	34.32	43.64	46.49	45.50	74.00	-28.50	peak	
3 *	5180.000	8.37	34.35	43.61	88.87	87.98	68.20	19.78	peak	

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### 4.4.1.28 11N20\_MIMO\_36\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

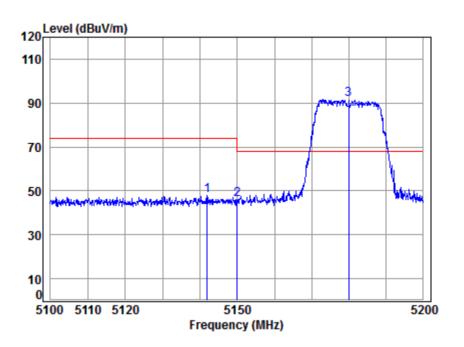
Mode : 5180 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5145.359	8.32	34.32	43.65	39.15	38.14	54.00	-15.86	Average	
5149.980	8.33	34.32	43.64	38.94	37.95	54.00	-16.05	Average	
5180.000	8.37	34.35	43.61	81.18	80.29			Average	

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### 4.4.1.29 11N20 MIMO 36 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

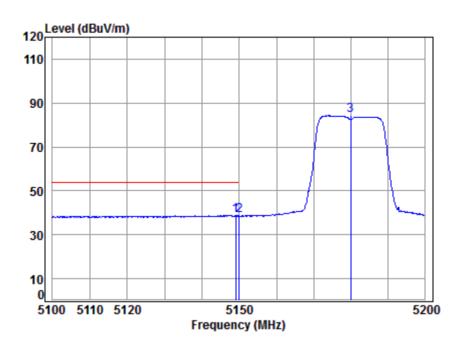
Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5141.863								•	
2	5149.980	8.33	34.32	43.64	47.13	46.14	74.00	-27.86	peak	
3 *	* 5180.000	8.37	34.35	43.61	92.46	91.57	68.20	23.37	peak	

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### 4.4.1.30 11N20\_MIMO\_36\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

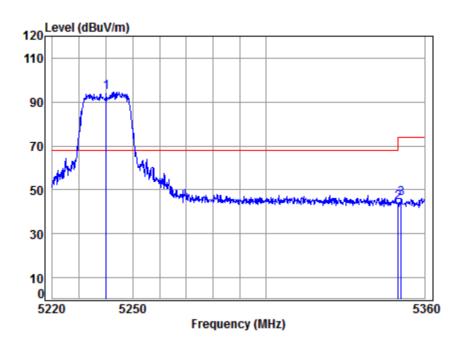
Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5148.958	8.32	34.32	43.64	39.80	38.80	54.00	-15.20	Average	
2	5149.980	8.33	34.32	43.64	39.75	38.76	54.00	-15.24	Average	
3	5180.000	8.37	34.35	43.61	85.11	84.22			Average	

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### 4.4.1.31 11N20 MIMO 48 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

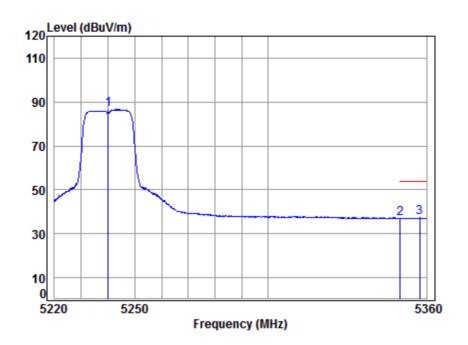
Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
*	5240.000								•	
	5350.020	8.63	34.48	43.44	44.70	44.37	74.00	-29.63	peak	
	5351.070	8.63	34.48	43.44	46.44	46.11	74.00	-27.89	peak	

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## 4.4.1.32 11N20\_MIMO\_48\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5240 Band edge

: 5G WIFI 11N20

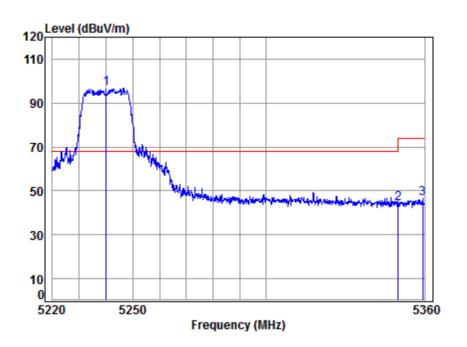
	F			Preamp					Damanla	
	Freq	LOSS	Factor	Factor	revei	revei	Line	Limit	Kemark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	8.46	34.40	43.55	87.25	86.56			Average	
2	5350.020	8.63	34.48	43.44	37.51	37.18	54.00	-16.82	Average	
3	5357.447	8.64	34.49	43.43	37.50	37.20	54.00	-16.80	Average	

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### 4.4.1.33 11N20 MIMO 48 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

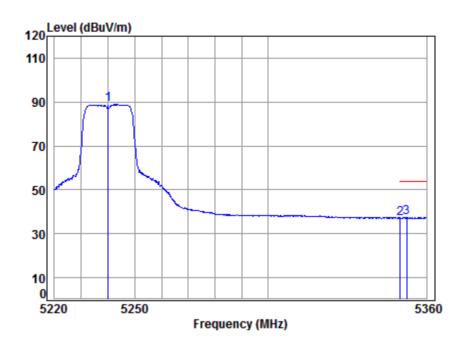
Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5240.000								•	
2	5350.020	8.63	34.48	43.44	44.78	44.45	74.00	-29.55	peak	
3	5359.291	8.64	34.49	43.43	46.68	46.38	74.00	-27.62	peak	

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### 4.4.1.34 11N20\_MIMO\_48\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

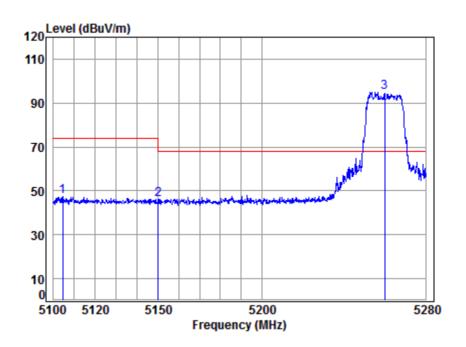
Mode : 5240 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5240.000	8.46	34.40	43.55	89.53	88.84			Average	
5350.020	8.63	34.48	43.44	37.49	37.16	54.00	-16.84	Average	
5352.487	8.63	34.49	43.44	37.87	37.55	54.00	-16.45	Average	

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### 4.4.1.35 11N20 MIMO 52 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

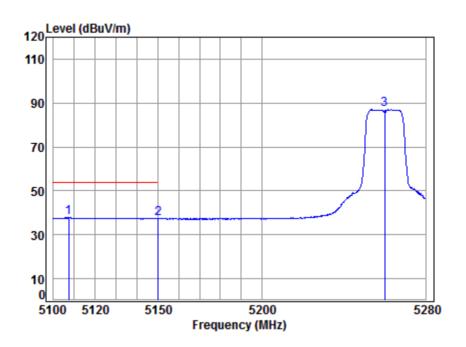
Mode : 5260 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5104.424								
5104.424 5149.980 * 5260.000	8.33	34.32		46.98	45.99	74.00	-28.01	Peak

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### 4.4.1.36 11N20\_MIMO\_52\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

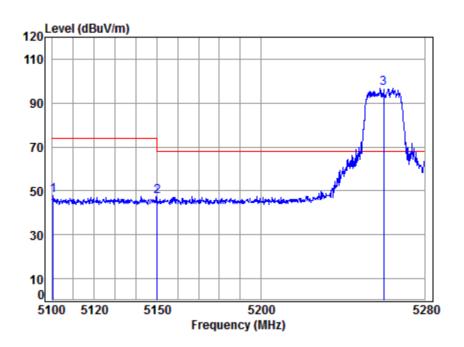
Mode : 5260 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5107.258	8.26	34.29	43.69	38.95	37.81	54.00	-16.19	Average	
5149.980	8.33	34.32	43.64	38.34	37.35	54.00	-16.65	Average	
5260.000	8.49	34.41	43.53	87.85	87.22			Average	

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### 4.4.1.37 11N20 MIMO 52 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

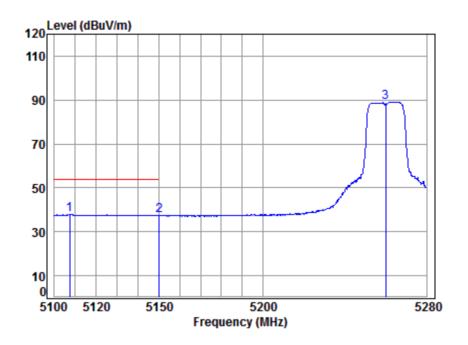
Mode : 5260 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5100.354								•	
2	5149.980	8.33	34.32	43.64	48.39	47.40	74.00	-26.60	peak	
3 *	5260.000	8.49	34.41	43.53	97.30	96.67	68.20	28.47	peak	

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### 4.4.1.38 11N20\_MIMO\_52\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5260 Band edge

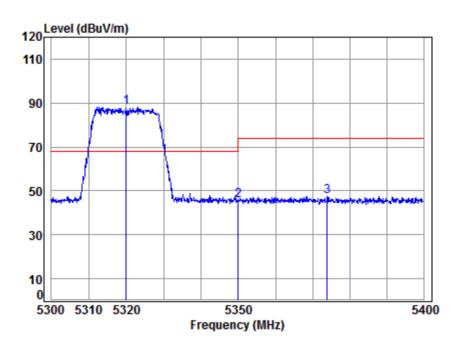
: 5G WIFI 11N20

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5107.258 8.26 34.29 43.69 39.01 37.87 54.00 -16.13 Average 5149.980 8.33 34.32 43.64 38.35 37.36 54.00 -16.64 Average 8.49 34.41 43.53 89.79 89.16 ----- Average 5260.000

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#### 4.4.1.39 11N20 MIMO 64 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

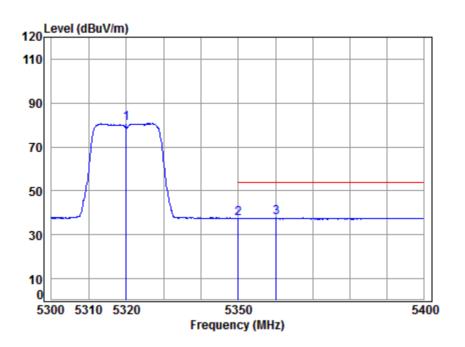
Mode : 5320 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	5320.000	8.58	34.46	43.47	88.58	88.15	68.20	19.95	Peak
	5350.020	8.63	34.48	43.44	45.87	45.54	74.00	-28.46	Peak
	5373.920	8.67	34.50	43.42	47.77	47.52	74.00	-26.48	Peak

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### 4.4.1.40 11N20\_MIMO\_64\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

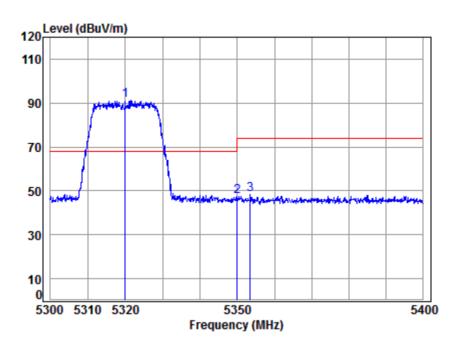
Mode : 5320 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5320.000	8.58	34.46	43.47	81.11	80.68			Average	
5350.020	8.63	34.48	43.44	37.89	37.56	54.00	-16.44	Average	
5360.176	8.64	34.49	43.43	38.03	37.73	54.00	-16.27	Average	

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#### 4.4.1.41 11N20 MIMO 64 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

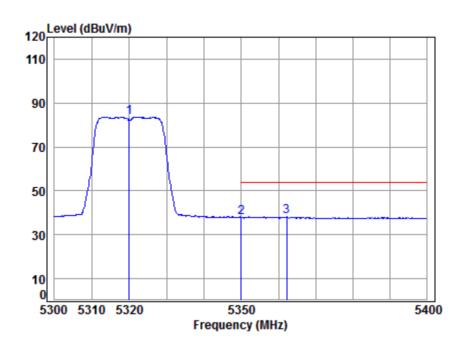
Mode : 5320 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	5320.000	8.58	34.46	43.47	91.79	91.36	68.20	23.16	peak
	5350.020	8.63	34.48	43.44	47.70	47.37	74.00	-26.63	peak
	5353.468	8.63	34.49	43.44	48.52	48.20	74.00	-25.80	peak

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### 4.4.1.42 11N20\_MIMO\_64\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

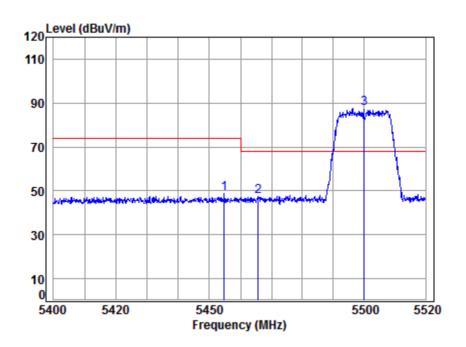
Mode : 5320 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5320.000	8.58	34.46	43.47	84.00	83.57			Average	
5350.020	8.63	34.48	43.44	38.14	37.81	54.00	-16.19	Average	
5362.181	8.65	34.49	43.43	38.52	38.23	54.00	-15.77	Average	

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#### 4.4.1.43 11N20 MIMO 100 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

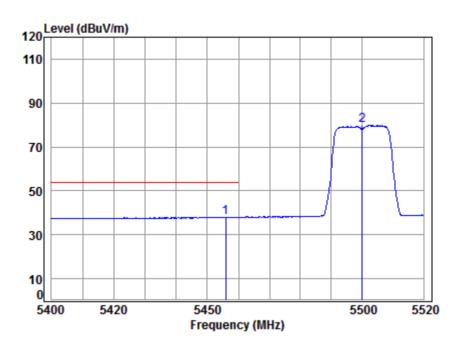
Mode : 5500 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5454.752 5465.673								
* 5500.000								•

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### 4.4.1.44 11N20\_MIMO\_100\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

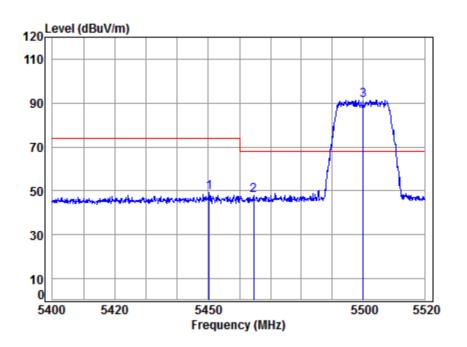
Mode : 5500 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5455.832	8.79	34.57	43.34	38.04	38.06	54.00	-15.94	Average	
5500.000	8.85	34.60	43.29	79.67	79.83			Average	

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### 4.4.1.45 11N20\_MIMO\_100\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2 3

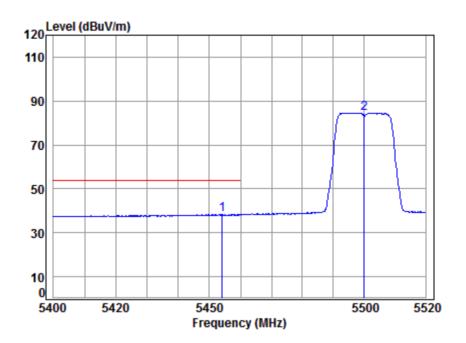
Mode : 5500 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5450.318								-	
5464.592 5500.000								•	

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### 4.4.1.46 11N20\_MIMO\_100\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5500 Band edge

: 5G WIFI 11N20

: MIMO

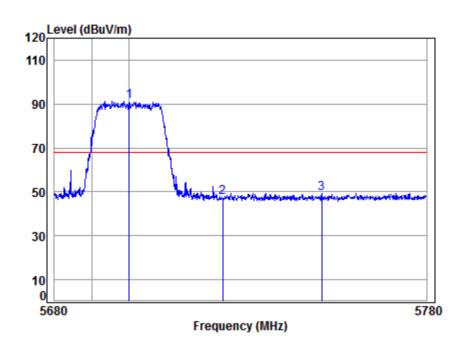
Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

5454.153 8.78 34.56 43.34 38.38 38.38 54.00 -15.62 Average 5500.000 8.85 34.60 43.29 84.41 84.57 ----- Average

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#### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

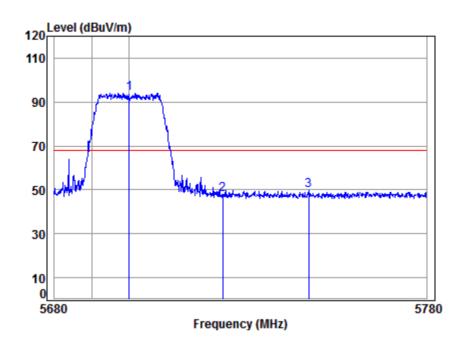
Mode : 5700 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
*	5700.000	9.56	34.81	43.10	89.92	91.19	68.20	22.99	Peak	
	5725.000	9.64	34.83	43.08	45.98	47.37	68.20	-20.83	Peak	
	5751.623	9.73	34.86	43.06	47.96	49.49	68.20	-18.71	Peak	

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### 4.4.1.48 11N20\_MIMO\_140\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5700 Band edge

: 5G WIFI 11N20

: MIMO

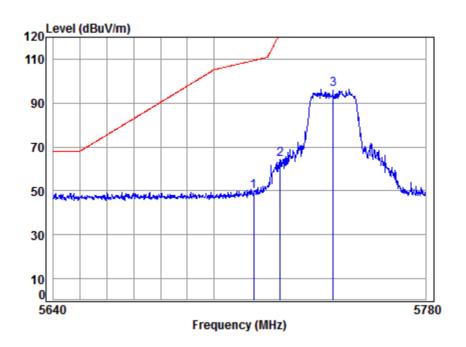
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB dB dB 1 \* 5700.000 9.56 34.81 43.10 92.72 93.99 68.20 25.79 peak 5725.000 9.64 34.83 43.08 46.74 48.13 68.20 -20.07 peak 5748.111 9.72 34.85 43.06 48.22 49.73 68.20 -18.47 peak

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#### 4.4.1.49 11N20 MIMO 149 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

Mode : 5745 Band edge

: 5G WIFI 11N20

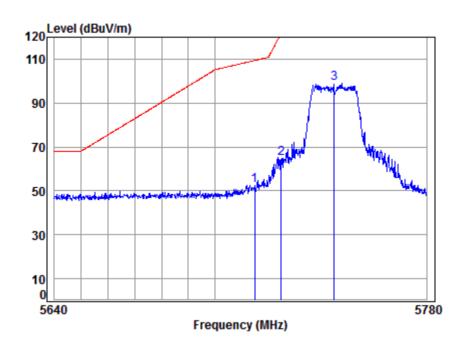
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5715.000 5725.000 5745.000	9.64	34.83	43.08	63.06	64.45	122.20	-57.75	peak

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### 4.4.1.50 11N20\_MIMO\_149\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

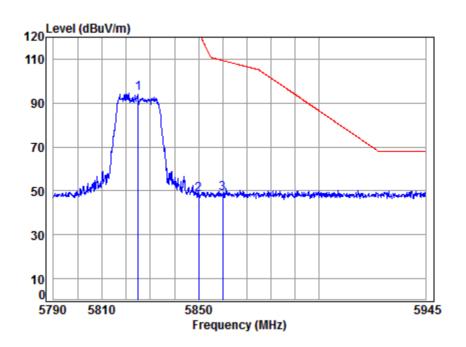
Mode : 5745 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5715.000 5725.000 5745.000	9.64	34.83	43.08	63.50	64.89	122.20	-57.31	peak

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#### 4.4.1.51 11N20 MIMO 165 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

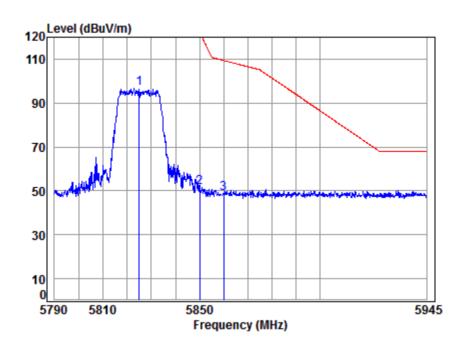
Mode : 5825 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5825.000	9.98	34.93	42.99	92.44	94.36	125.20	-30.84	peak	
5850.000	10.07	34.95	42.96	46.27	48.33	122.20	-73.87	peak	
5860.000	10.10	34.96	42.96	46.59	48.69	109.40	-60.71	peak	

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#### 4.4.1.52 11N20 MIMO 165 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2 3

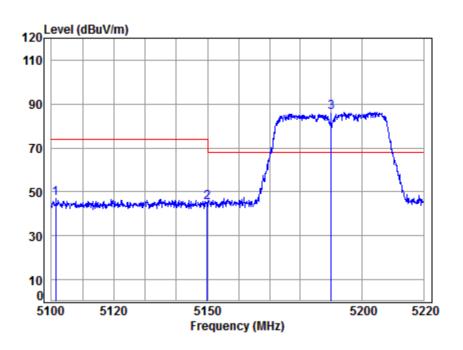
Mode : 5825 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000 5850.000	10.07	34.95	42.96	49.72	51.78	122.20	-70.42	peak
5860.000	10.10	34.96	42.96	46.85	48.95	109.40	-60.45	peak

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#### 4.4.1.53 11N40 MIMO 38 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

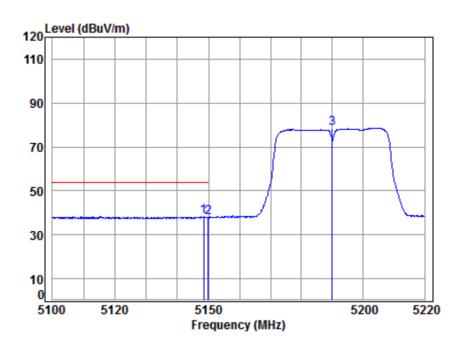
Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5101.423	8.25	34.28	43.69	48.17	47.01	74.00	-26.99	peak
2	5149.980	8.33	34.32	43.64	46.30	45.31	74.00	-28.69	peak
3 *	5190.000	8.39	34.36	43.60	87.03	86.18	68.20	17.98	peak

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### 4.4.1.54 11N40\_MIMO\_38\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

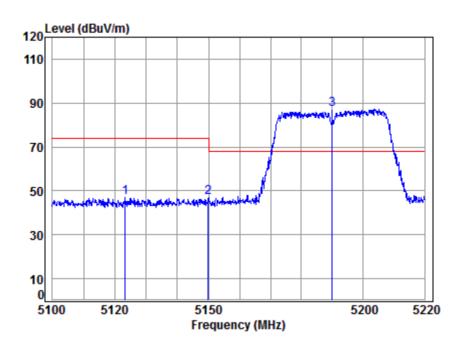
Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5148.503	8.32	34.32	43.64	39.25	38.25	54.00	-15.75	Average	
2	5149.980	8.33	34.32	43.64	38.80	37.81	54.00	-16.19	Average	
3	5190.000	8.39	34.36	43.60	79.50	78.65			Average	

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### 4.4.1.55 11N40\_MIMO\_38\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

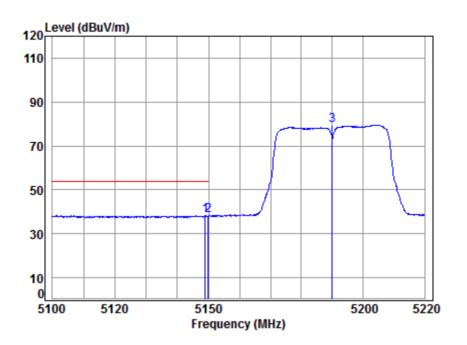
Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	5123.301	8.28	34.30	43.67	47.98	46.89	74.00	-27.11	peak	
2	5149.980	8.33	34.32	43.64	47.91	46.92	74.00	-27.08	peak	
3 *	5190.000	8.39	34.36	43.60	88.01	87.16	68.20	18.96	peak	

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### 4.4.1.56 11N40\_MIMO\_38\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5190 Band edge

: 5G WIFI 11N40

: MIMO

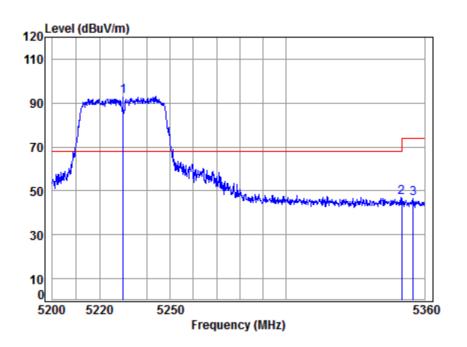
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5148.863 8.32 34.32 43.64 39.45 38.45 54.00 -15.55 Average 5149.980 8.33 34.32 43.64 39.18 38.19 54.00 -15.81 Average 8.39 34.36 43.60 80.39 79.54 ----- Average 5190.000

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#### 4.4.1.57 11N40 MIMO 46 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

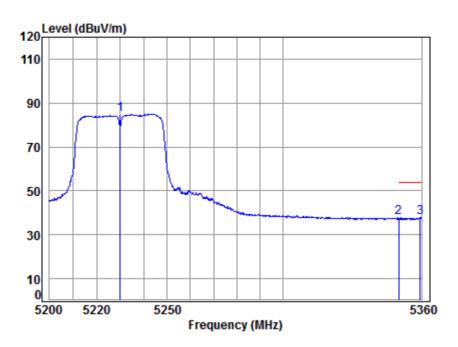
Mode : 5230 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000								•
2 5350.020 3 5354.967								•

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### 4.4.1.58 11N40\_MIMO\_46\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

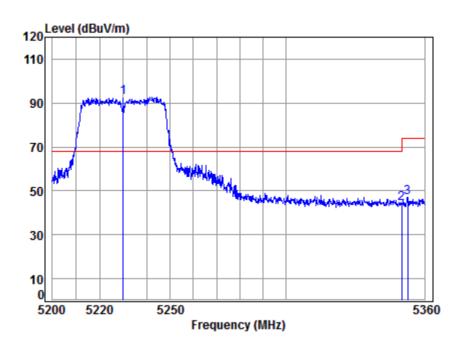
Mode : 5230 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5230.000	8.45	34.39	43.56	85.63	84.91			Average	
5350.020	8.63	34.48	43.44	37.98	37.65	54.00	-16.35	Average	
5359.513	8.64	34.49	43.43	38.27	37.97	54.00	-16.03	Average	

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### 4.4.1.59 11N40\_MIMO\_46\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

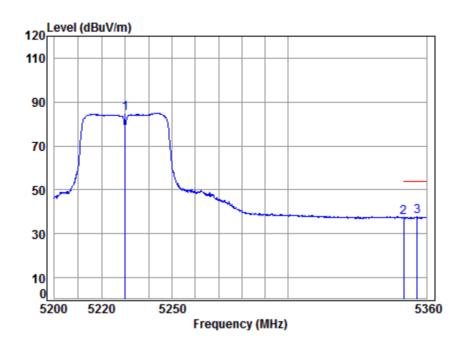
Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1 *	5230.000	8.45	34.39	43.56	93.28	92.56	68.20	24.36	peak	
2	5350.020	8.63	34.48	43.44	44.40	44.07	74.00	-29.93	peak	
3	5352.695	8.63	34.49	43.44	47.42	47.10	74.00	-26.90	peak	

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### 4.4.1.60 11N40\_MIMO\_46\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

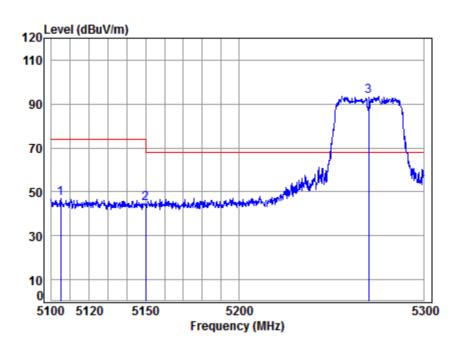
Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	5230.000	8.45	34.39	43.56	85.70	84.98			Average	
2	5350.020	8.63	34.48	43.44	37.69	37.36	54.00	-16.64	Average	
3	5355.940	8.64	34.49	43.43	38.05	37.75	54.00	-16.25	Average	

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#### 4.4.1.61 11N40 MIMO 54 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

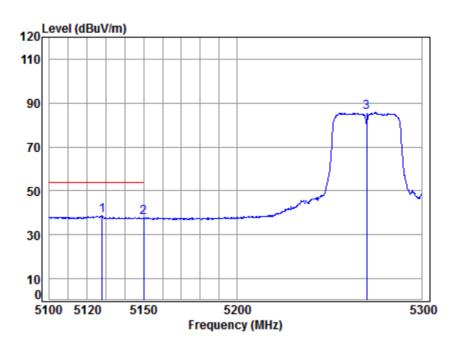
Mode : 5270 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5104.907	8.26	34.29	43.69	48.30	47.16	74.00	-26.84	peak	
	5149.980	8.33	34.32	43.64	45.52	44.53	74.00	-29.47	peak	
*	5270.000	8.51	34.42	43.52	94.15	93.56	68.20	25.36	peak	

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### 4.4.1.62 11N40\_MIMO\_54\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

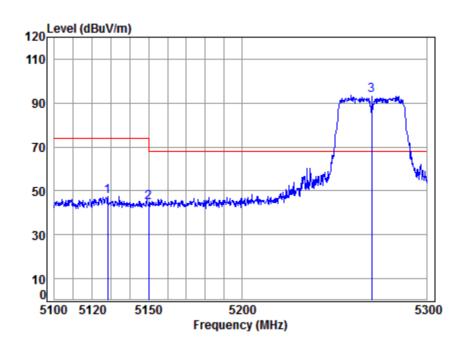
Mode : 5270 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5127.934	8.29	34.31	43.67	39.64	38.57	54.00	-15.43	Average	
5149.980	8.33	34.32	43.64	38.71	37.72	54.00	-16.28	Average	
5270.000	8.51	34.42	43.52	86.20	85.61			Average	

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#### 4.4.1.63 11N40 MIMO 54 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

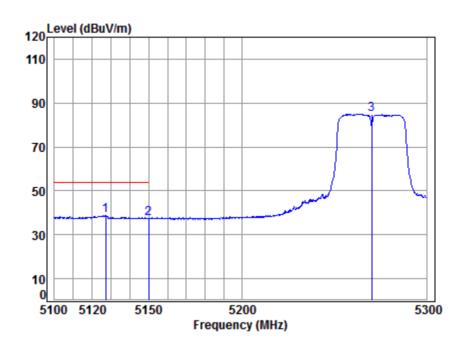
Mode : 5270 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5128.131	8.29	34.31	43.67	48.37	47.30	74.00	-26.70	peak	
	5149.980	8.33	34.32	43.64	45.56	44.57	74.00	-29.43	peak	
*	5270.000	8.51	34.42	43.52	94.19	93.60	68.20	25.40	peak	

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### 4.4.1.64 11N40\_MIMO\_54\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2 3

Mode : 5270 Band edge

: 5G WIFI 11N40

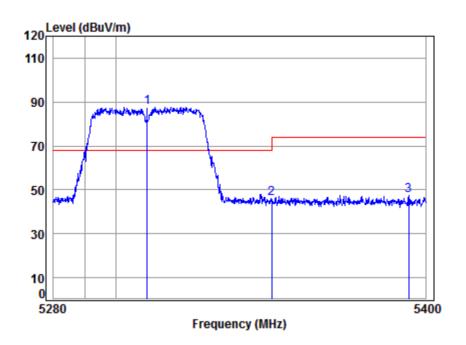
Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5127.145 5149.980								_	
5270.000								_	

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### 4.4.1.65 11N40 MIMO 62 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

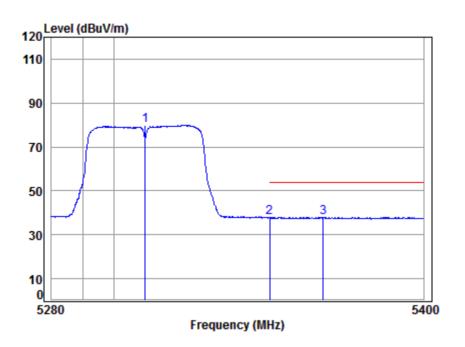
Mode : 5310 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5310.000	8.57	34.45	43.48	88.13	87.67	68.20	19.47	peak
2	5350.020	8.63	34.48	43.44	46.29	45.96	74.00	-28.04	peak
3	5394.542	8.70	34.52	43.40	47.48	47.30	74.00	-26.70	peak

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### 4.4.1.66 11N40\_MIMO\_62\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

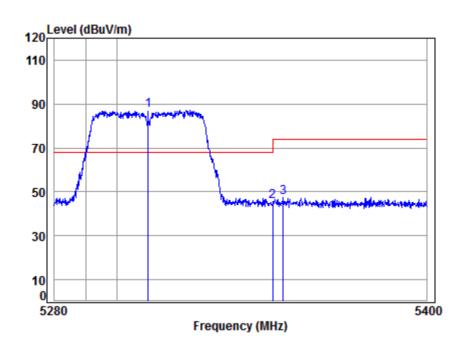
Mode : 5310 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
								Average	
5350.020	8.63	34.48	43.44	38.23	37.90	54.00	-16.10	Average	
5367.334	8.66	34.50	43.42	38.20	37.94	54.00	-16.06	Average	

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#### 4.4.1.67 11N40 MIMO 62 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

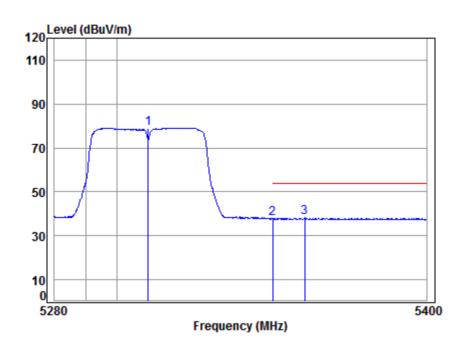
Mode : 5310 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5310.000								•
2	5350.020	8.63	34.48	43.44	46.12	45.79	74.00	-28.21	peak
3	5353.480	8.63	34.49	43.44	47.95	47.63	74.00	-26.37	peak

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### 4.4.1.68 11N40\_MIMO\_62\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5310 Band edge

: 5G WIFI 11N40

: MIMO

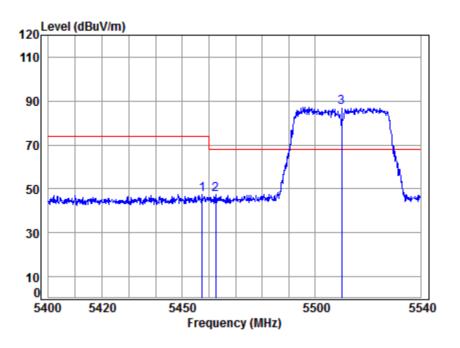
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB dB dB 5310.000 8.57 34.45 43.48 79.59 79.13 ----- Average 5350.020 8.63 34.48 43.44 38.08 37.75 54.00 -16.25 Average 5360.342 8.64 34.49 43.43 38.50 38.20 54.00 -15.80 Average

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#### 4.4.1.69 11N40 MIMO 102 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

Mode : 5510 Band edge

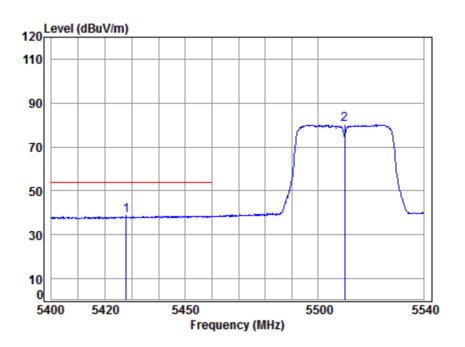
: 5G WIFI 11N40

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dB dBuV dBuV/m dBuV/m MHz dB/m dB dB 5457.386 8.79 34.57 43.33 47.63 47.66 74.00 -26.34 peak 8.80 34.57 43.33 47.64 47.68 68.20 -20.52 peak 5462.417 3 \* 5510.000 8.89 34.61 43.28 86.97 87.19 68.20 18.99 peak

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### 4.4.1.70 11N40\_MIMO\_102\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

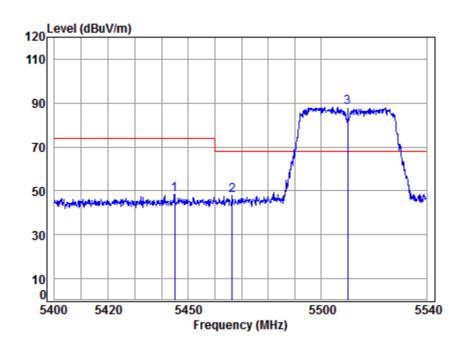
Mode : 5510 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5427.853								_	
5510.000	8.89	34.61	43.28	79.89	80.11			Average	

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#### 4.4.1.71 11N40 MIMO 102 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

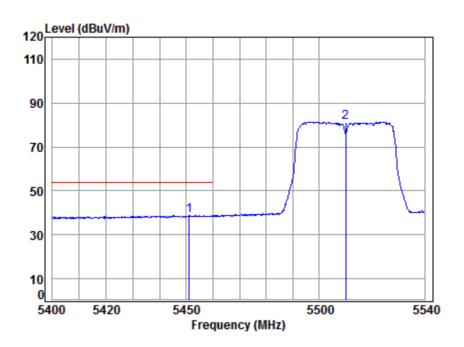
Mode : 5510 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5444.829								•	
2	5466.473	8.80	34.57	43.33	47.89	47.93	68.20	-20.27	peak	
3 *	5510.000	8.89	34.61	43.28	87.96	88.18	68.20	19.98	peak	

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### 4.4.1.72 11N40\_MIMO\_102\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5510 Band edge

: 5G WIFI 11N40

: MIMO

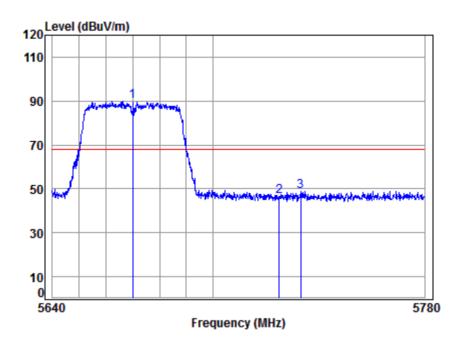
Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

5450.964 8.78 34.56 43.34 38.69 38.69 54.00 -15.31 Average 5510.000 8.89 34.61 43.28 81.17 81.39 ----- Average

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### 4.4.1.73 11N40\_MIMO\_134\_ Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

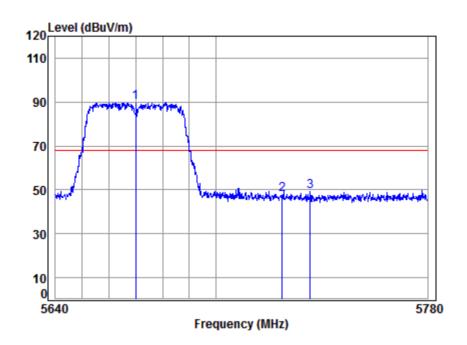
Mode : 5670 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
*	5670.000								•	
	5725.000	9.64	34.83	43.08	45.30	46.69	68.20	-21.51	peak	
	5732.998	9.67	34.84	43.07	47.54	48.98	68.20	-19.22	peak	

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#### 4.4.1.74 11N40 MIMO 134 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

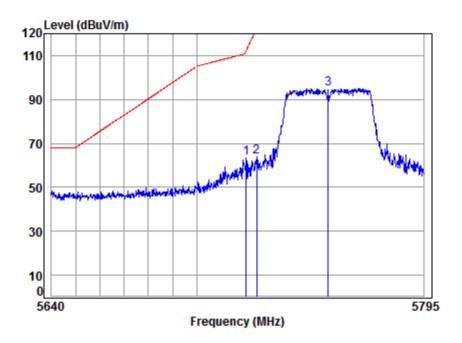
Mode : 5670 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	5670.000								•
	5725.000	9.64	34.83	43.08	46.38	47.77	68.20	-20.43	peak
	5735.529	9.68	34.84	43.07	47.66	49.11	68.20	-19.09	peak

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#### 4.4.1.75 11N40\_MIMO\_151\_ Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

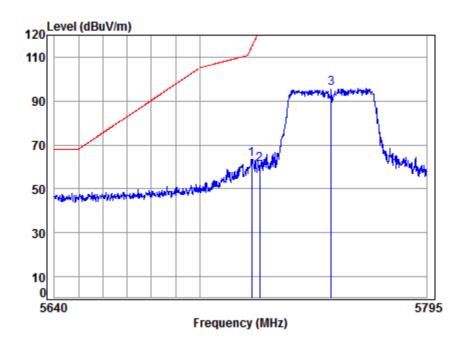
Mode : 5755 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5720.696	9.63	34.83	43.08	62.04	63.42	112.39	-48.97	peak	
2	5725.000	9.64	34.83	43.08	62.29	63.68	122.20	-58.52	peak	
3	5755.000	9.75	34.86	43.05	93.55	95.11	125.20	-30.09	neak	

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#### 4.4.1.76 11N40 MIMO 151 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5755 Band edge

: 5G WIFI 11N40

: MIMO

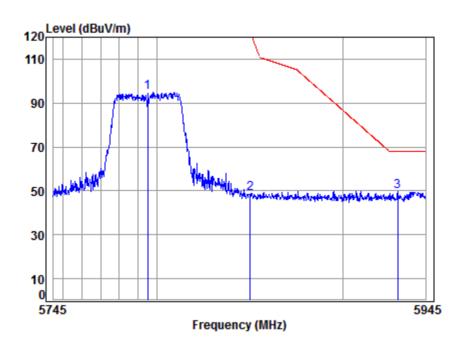
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dB dBuV dBuV/m dBuV/m MHz dB/m dB dB 5721.626 9.63 34.83 43.08 62.11 63.49 114.51 -51.02 peak 5725.000 9.64 34.83 43.08 59.76 61.15 122.20 -61.05 peak 9.75 34.86 43.05 94.11 95.67 125.20 -29.53 peak 5755.000

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#### 4.4.1.77 11N40 MIMO 159 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

Mode : 5795 Band edge

: 5G WIFI 11N40

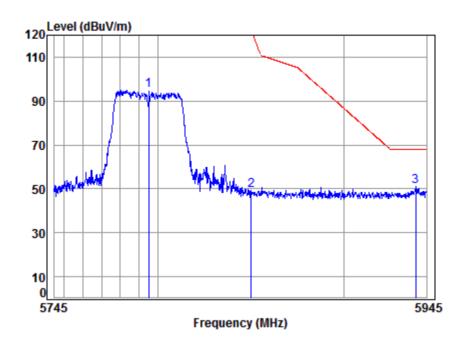
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5795.000	9.88	34.90	43.02	92.98	94.74	125.20	-30.46	peak
5850.000	10.07	34.95	42.96	46.87	48.93	122.20	-73.27	peak
5929.761	10.34	35.03	42.89	47.36	49.84	68.20	-18.36	peak

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#### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

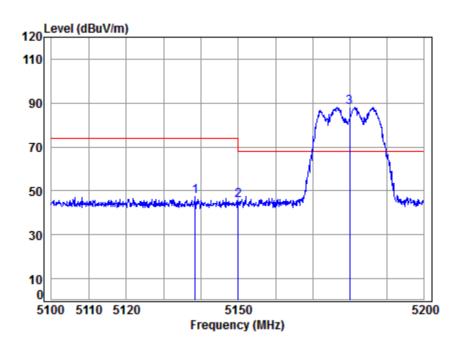
Mode : 5795 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
795.000 350.000								•
939.103								•

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#### 4.4.1.79 11AC20 MIMO 36 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

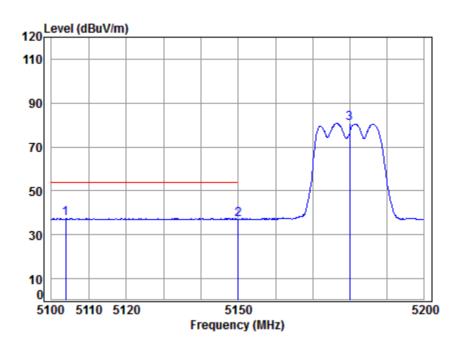
Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5138.370	8.31	34.31	43.65	48.33	47.30	74.00	-26.70	peak	
2	5149.980	8.33	34.32	43.64	46.39	45.40	74.00	-28.60	peak	
3 :	* 5180.000	8.37	34.35	43.61	88.79	87.90	68.20	19.70	peak	

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#### 4.4.1.80 11AC20\_MIMO\_36\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

2

Mode : 5180 Band edge

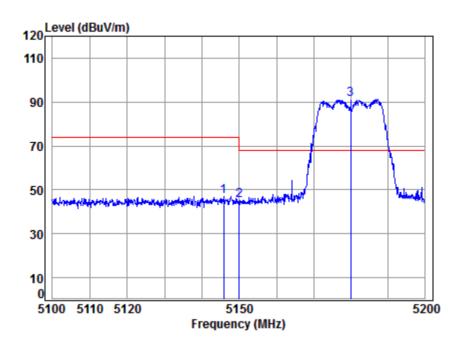
: 5G WIFI 11AC20

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dB dBuV dBuV/m dBuV/m MHz dB/m dB dB 5103.864 8.25 34.29 43.69 38.50 37.35 54.00 -16.65 Average 5149.980 8.33 34.32 43.64 38.15 37.16 54.00 -16.84 Average 8.37 34.35 43.61 81.55 80.66 ----- Average 5180.000

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#### 4.4.1.81 11AC20\_MIMO\_36\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

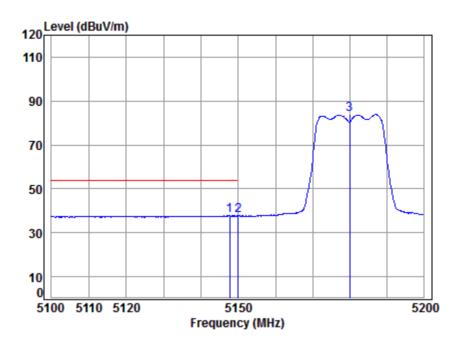
Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5145.759	8.32	34.32	43.65	48.03	47.02	74.00	-26.98	peak
	5149.980	8.33	34.32	43.64	46.01	45.02	74.00	-28.98	peak
*	5180.000	8.37	34.35	43.61	91.93	91.04	68.20	22.84	peak

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#### 4.4.1.82 11AC20\_MIMO\_36\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

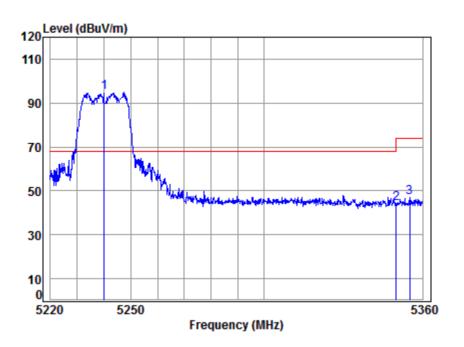
Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.658	8.32	34.32	43.65	38.80	37.79	54.00	-16.21	Average
2	5149.980	8.33	34.32	43.64	38.71	37.72	54.00	-16.28	Average
3	5180.000	8.37	34.35	43.61	84.72	83.83			Average

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#### 4.4.1.83 11AC20\_MIMO\_48\_Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

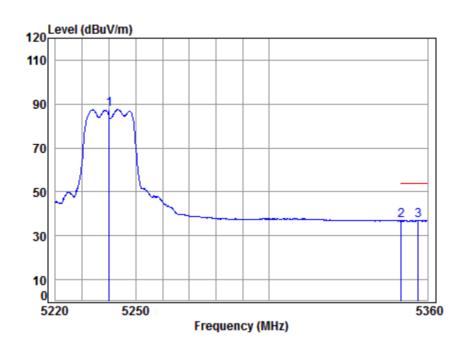
Mode : 5240 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5240.000	8.46	34.40	43.55	95.52	94.83	68.20	26.63	peak	
5350.020	8.63	34.48	43.44	44.75	44.42	74.00	-29.58	peak	
5355.037	8.64	34.49	43.44	47.28	46.97	74.00	-27.03	peak	

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#### 4.4.1.84 11AC20\_MIMO\_48\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5240 Band edge

: 5G WIFI 11AC20

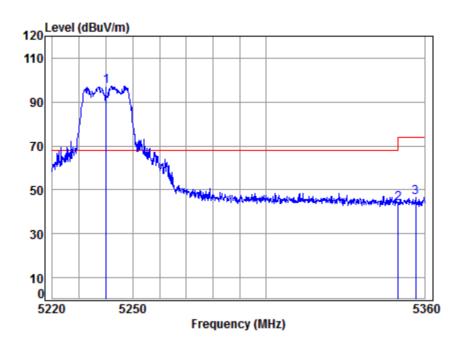
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5240.000	8.46	34.40	43.55	88.12	87.43			Average	
2	5350.020	8.63	34.48	43.44	37.13	36.80	54.00	-17.20	Average	
3	5356.455	8.64	34.49	43.43	37.26	36.96	54.00	-17.04	Average	

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#### 4.4.1.85 11AC20\_MIMO\_48\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

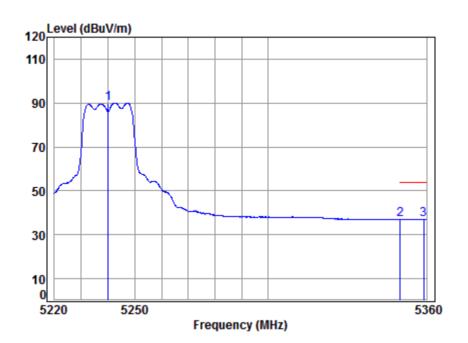
Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. *	5240.000	8.46	34.40	43.55	97.95	97.26	68.20	29.06	peak
	5350.020	8.63	34.48	43.44	44.25	43.92	74.00	-30.08	peak
	5356.596	8.64	34.49	43.43	46.72	46.42	74.00	-27.58	peak

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#### 4.4.1.86 11AC20\_MIMO\_48\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

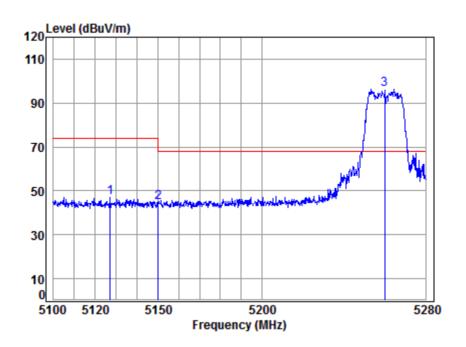
Mode : 5240 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5240.000	8.46	34.40	43.55	90.77	90.08			Average	
5350.020	8.63	34.48	43.44	37.34	37.01	54.00	-16.99	Average	
5359.007	8.64	34.49	43.43	37.32	37.02	54.00	-16.98	Average	

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#### 4.4.1.87 11AC20 MIMO 52 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

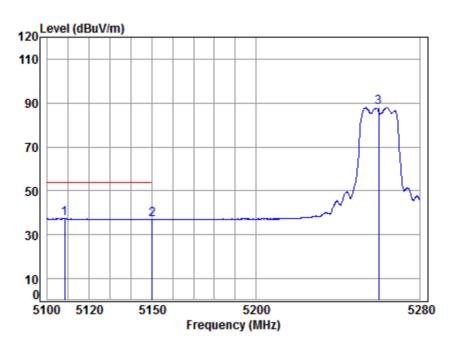
Mode : 5260 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5126.959								•	
2	5149.980	8.33	34.32	43.64	45.77	44.78	74.00	-29.22	peak	
3 *	5260.000	8.49	34.41	43.53	96.88	96.25	68.20	28.05	peak	

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### 4.4.1.88 11AC20\_MIMO\_52\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

Mode : 5260 Band edge

: 5G WIFI 11AC20

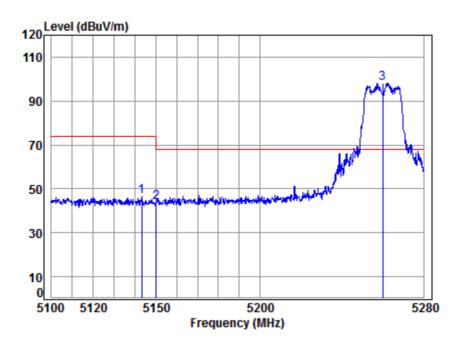
Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5108.321	8.26	34.29	43.69	38.61	37.47	54.00	-16.53	Average	
5149.980	8.33	34.32	43.64	37.98	36.99	54.00	-17.01	Average	
5260.000	8.49	34.41	43.53	88.50	87.87			Average	

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#### 4.4.1.89 11AC20 MIMO 52 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

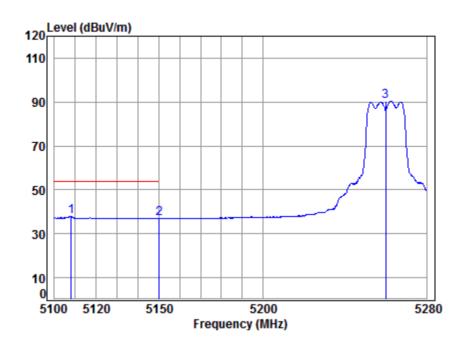
Mode : 5260 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.167	8.32	34.32	43.65	47.51	46.50	74.00	-27.50	peak
2	5149.980	8.33	34.32	43.64	44.96	43.97	74.00	-30.03	peak
3 *	5260.000	8.49	34.41	43.53	98.76	98.13	68.20	29.93	peak

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#### 4.4.1.90 11AC20\_MIMO\_52\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

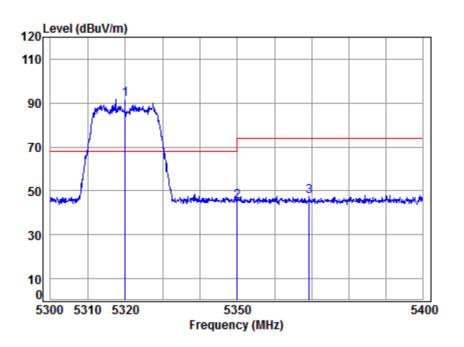
Mode : 5260 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5107.966	8.26	34.29	43.69	38.93	37.79	54.00	-16.21	Average	
5149.980	8.33	34.32	43.64	38.03	37.04	54.00	-16.96	Average	
5260.000	8.49	34.41	43.53	91.15	90.52			Average	

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#### 4.4.1.91 11AC20 MIMO 64 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

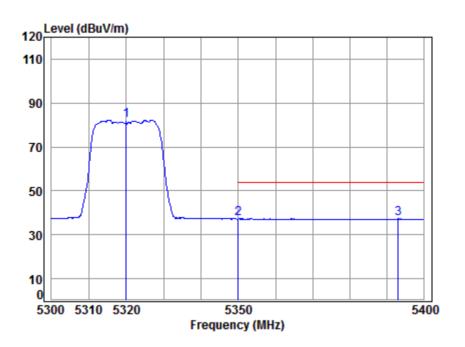
Mode : 5320 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5320.000									
5350.000 5369.402									

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#### 4.4.1.92 11AC20\_MIMO\_64\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

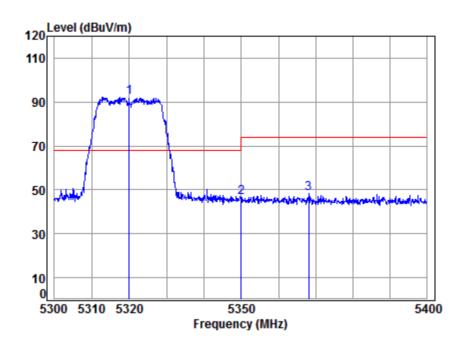
Mode : 5320 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.59	34.47	43.46	82.59	82.19			Average
2	5350.000	8.63	34.48	43.44	37.75	37.42	54.00	-16.58	Average
3	5393.141	8.69	34.52	43.40	37.44	37.25	54.00	-16.75	Average

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#### 4.4.1.93 11AC20 MIMO 64 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

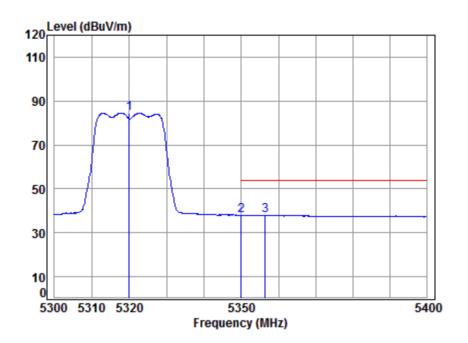
Mode : 5320 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5320.000	8.58	34.46	43.47	92.50	92.07	68.20	23.87	peak	
5350.020	8.63	34.48	43.44	47.05	46.72	74.00	-27.28	peak	
5368.098	8.66	34.50	43.42	48.49	48.23	74.00	-25.77	peak	

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#### 4.4.1.94 11AC20\_MIMO\_64\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5320 Band edge

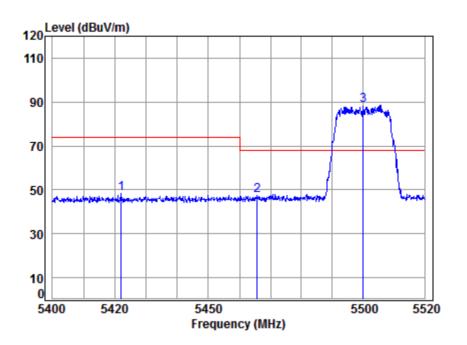
: 5G WIFI 11AC20

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dB dBuV dBuV/m dBuV/m MHz dB/m dB dB 5320.000 8.58 34.46 43.47 84.92 84.49 ----- Average 5350.020 8.63 34.48 43.44 38.37 38.04 54.00 -15.96 Average 8.64 34.49 43.43 38.34 38.04 54.00 -15.96 Average 5356.470

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#### 4.4.1.95 11AC20\_MIMO\_100\_Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

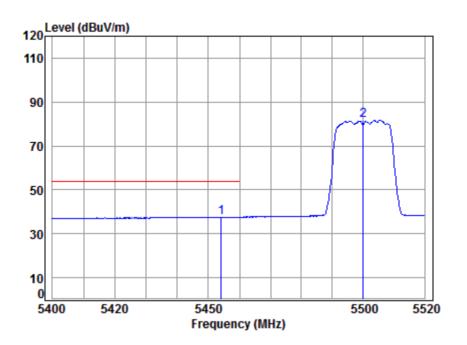
Mode : 5500 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5422.001	8.74	34.54	43.37	48.28	48.19	74.00	-25.81	Peak	
	5465.793	8.80	34.57	43.33	47.19	47.23	68.20	-20.97	Peak	
*	5500.000	8.87	34.61	43.29	88.37	88.56	68.20	20.36	Peak	

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#### 4.4.1.96 11AC20\_MIMO\_100\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5500 Band edge

: 5G WIFI 11AC20

: MIMO

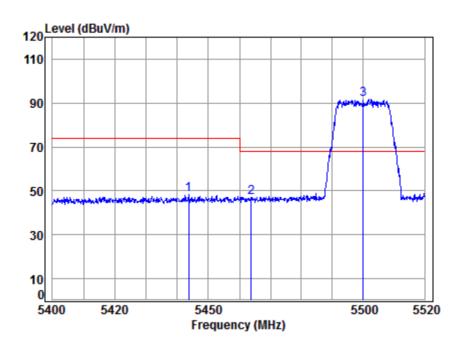
Cable Ant Preamp Read Limit Over
Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

5454.033 8.78 34.56 43.34 37.58 37.58 54.00 -16.42 Average 5500.000 8.87 34.61 43.29 81.44 81.63 ----- Average

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#### 4.4.1.97 11AC20\_MIMO\_100\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

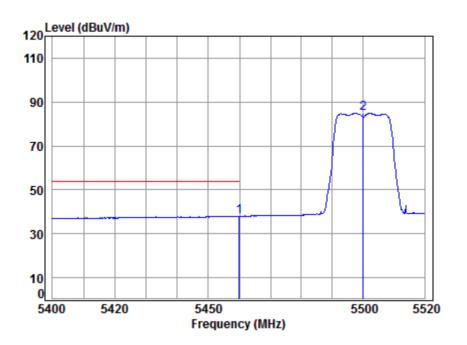
Mode : 5500 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	5443.614	8.77	34.56	43.35	48.57	48.55	74.00	-25.45	Peak	
2	5463.752	8.80	34.57	43.33	46.99	47.03	68.20	-21.17	Peak	
3	* 5500.000	8.86	34.60	43.29	91.37	91.54	68.20	23.34	Peak	

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#### 4.4.1.98 11AC20\_MIMO\_100\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

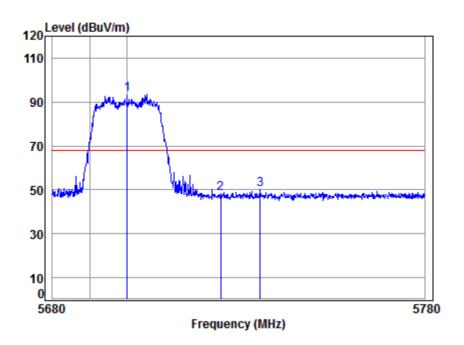
Mode : 5500 Band edge

: 5G WIFI 11AC20

: MIMO

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#### 4.4.1.99 11AC20\_MIMO\_140\_Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

Mode : 5700 Band edge

: 5G WIFI 11AC20

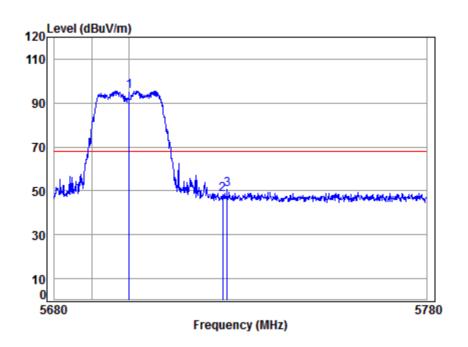
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
*	5700.000	9.57	34.81	43.10	92.21	93.49	68.20	25.29	Peak	
	5725.000	9.63	34.83	43.08	46.98	48.36	68.20	-19.84	Peak	
	5735.685	9.68	34.84	43.07	48.74	50.19	68.20	-18.01	Peak	

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#### 4.4.1.100 11AC20\_MIMO\_140\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

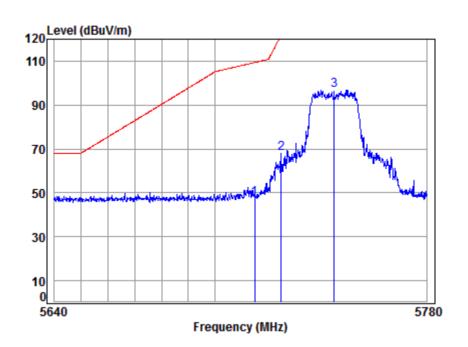
Mode : 5700 Band edge

: 5G WIFI 11AC20

Cable Ant Preamp Read Limit Ove Freq Loss Factor Factor Level Level Line Limi	
MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m	3
* 5700.000 9.56 34.81 43.10 94.23 95.50 68.20 27.30	•
5725.000 9.64 34.83 43.08 46.86 48.25 68.20 -19.9 5726.183 9.65 34.83 43.08 49.37 50.77 68.20 -17.4	•

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#### 4.4.1.101 11AC20\_MIMO\_149\_Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5745 Band edge

: 5G WIFI 11AC20

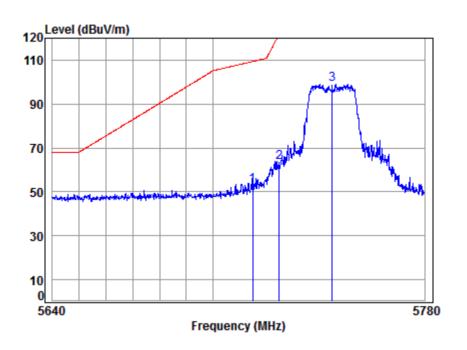
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	46.24	47.58	109.40	-61.82	peak
2	5725.000	9.64	34.83	43.08	66.54	67.93	122.20	-54.27	peak
3	5745.000	9.71	34.85	43.06	95.34	96.84	125.20	-28.36	peak

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#### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

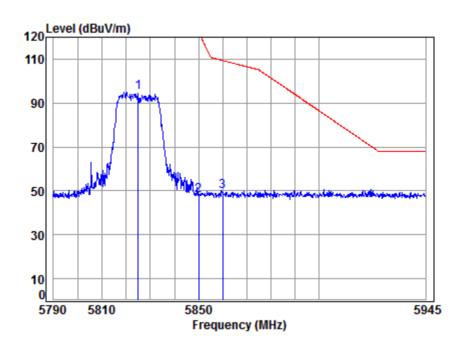
Mode : 5745 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5715.000								•
5725.000	9.64	34.83	43.08	61.93	63.32	122.20	-58.88	peak
5745.000	9.71	34.85	43.06	97.65	99.15	125.20	-26.05	peak

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#### 4.4.1.103 11AC20\_MIMO\_165\_Peak\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

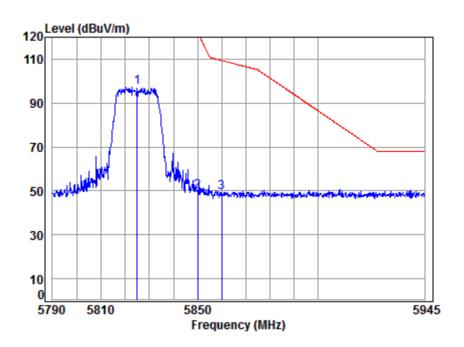
Mode : 5825 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5825.000 5850.000								•	
5860.000								•	

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### 4.4.1.104 11AC20\_MIMO\_165\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5825 Band edge

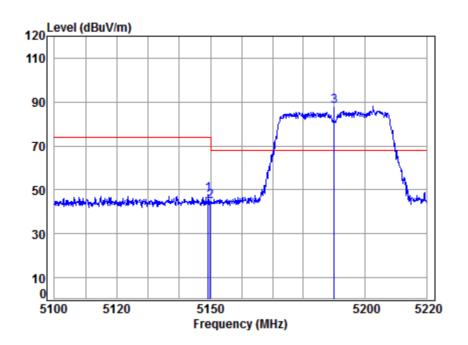
: 5G WIFI 11AC20

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dB dBuV dBuV/m dBuV/m MHz dB/m dB dB 5825.000 9.98 34.93 42.99 95.15 97.07 125.20 -28.13 peak 5850.000 10.07 34.95 42.96 47.56 49.62 122.20 -72.58 peak 5860.000 10.10 34.96 42.96 47.21 49.31 109.40 -60.09 peak

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#### 4.4.1.105 11AC40\_MIMO\_38\_ Peak\_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2 3

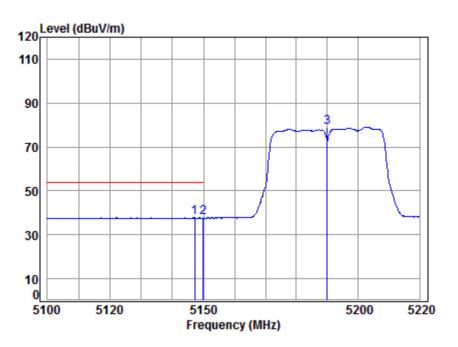
Mode : 5190 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5149.342								•	
5149.980 5190.000								•	

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#### 4.4.1.106 11AC40\_MIMO\_38\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

2

Mode : 5190 Band edge

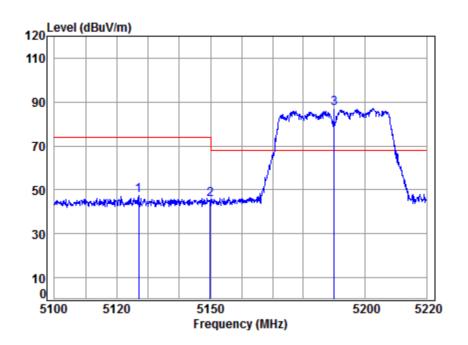
: 5G WIFI 11AC40

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5147.187 8.32 34.32 43.65 38.83 37.82 54.00 -16.18 Average 5149.980 8.33 34.32 43.64 38.84 37.85 54.00 -16.15 Average 8.39 34.36 43.60 79.85 79.00 ----- Average 5190.000

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#### 4.4.1.107 11AC40\_MIMO\_38\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

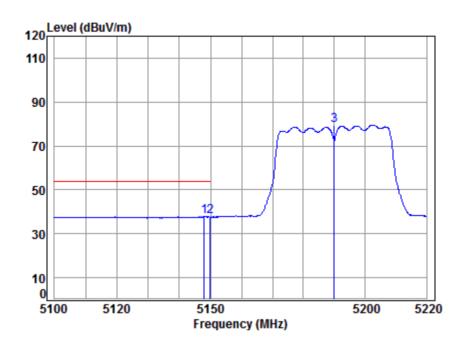
Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5126.876	8.29	34.31	43.67	48.43	47.36	74.00	-26.64	peak
2	5149.980	8.33	34.32	43.64	46.60	45.61	74.00	-28.39	peak
3	* 5190.000	8.39	34.36	43.60	87.84	86.99	68.20	18.79	peak

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#### 4.4.1.108 11AC40 MIMO 38 Average Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2 3

Mode : 5190 Band edge

: 5G WIFI 11AC40

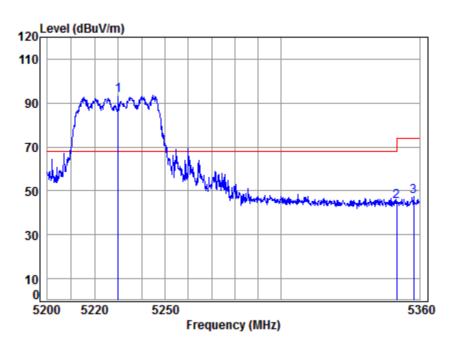
Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5148.024								_	
5149.980 5190.000								_	

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#### 4.4.1.109 11AC40 MIMO 46 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

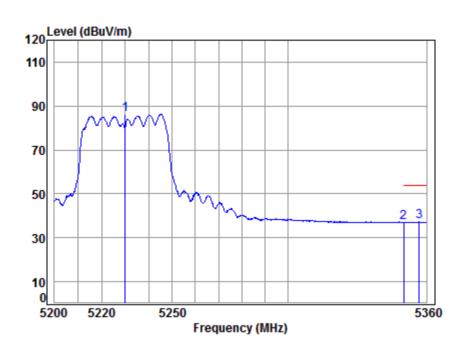
Mode : 5230 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5230.000	8.45	34.39	43.56	94.40	93.68	68.20	25.48	peak	
5350.020	8.63	34.48	43.44	45.44	45.11	74.00	-28.89	peak	
5357.402	8.64	34.49	43.43	47.63	47.33	74.00	-26.67	peak	

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#### 4.4.1.110 11AC40\_MIMO\_46\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

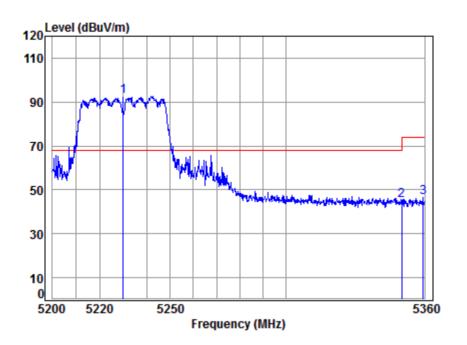
Mode : 5230 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5230.000	8.45	34.39	43.56	86.88	86.16			Average	
5350.020	8.63	34.48	43.44	37.38	37.05	54.00	-16.95	Average	
5356.752	8.64	34.49	43.43	37.50	37.20	54.00	-16.80	Average	

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

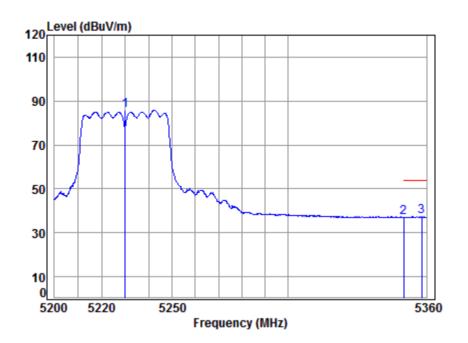
Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	5230.000	8.45	34.39	43.56	93.53	92.81	68.20	24.61	peak
	5350.020	8.63	34.48	43.44	45.27	44.94	74.00	-29.06	peak
	5359.350	8.64	34.49	43.43	46.67	46.37	74.00	-27.63	peak

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## 4.4.1.112 11AC40\_MIMO\_46\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

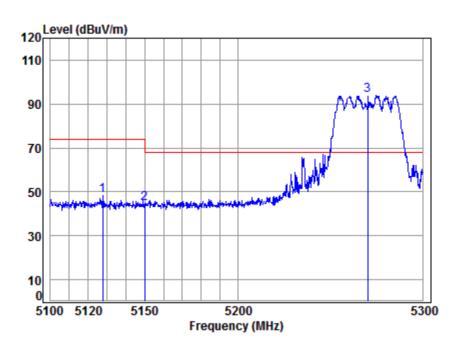
Mode : 5230 Band edge

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5230.000	8.45	34.39	43.56	86.53	85.81			Average	
2	5350.020	8.63	34.48	43.44	37.45	37.12	54.00	-16.88	Average	
3	5357.889	8.64	34.49	43.43	37.74	37.44	54.00	-16.56	Average	

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### 4.4.1.113 11AC40 MIMO 54 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

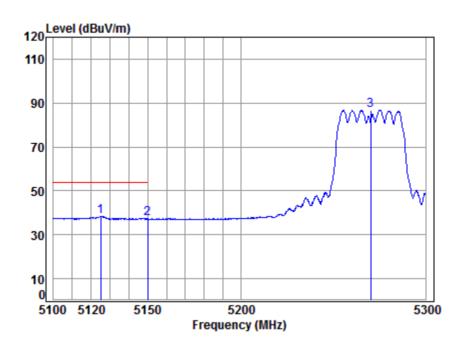
Mode : 5270 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5127.539	8.29	34.31	43.67	49.64	48.57	74.00	-25.43	peak
	5149.980	8.33	34.32	43.64	45.62	44.63	74.00	-29.37	peak
*	5270.000	8.51	34.42	43.52	94.44	93.85	68.20	25.65	peak

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## 4.4.1.114 11AC40\_MIMO\_54\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

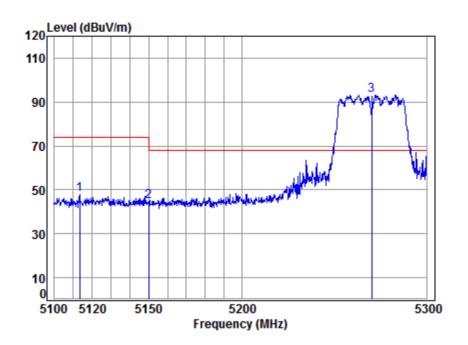
Mode : 5270 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5124.976	8.29	34.30	43.67	39.47	38.39	54.00	-15.61	Average	
5149.980	8.33	34.32	43.64	38.19	37.20	54.00	-16.80	Average	
5270.000	8.51	34.42	43.52	87.29	86.70			Average	

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

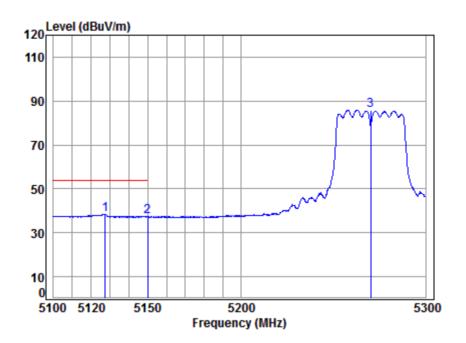
Mode : 5270 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5113.357	8.27	34.29	43.68	49.18	48.06	74.00	-25.94	peak
2	5149.980	8.33	34.32	43.64	45.64	44.65	74.00	-29.35	peak
3 *	5270.000	8.51	34.42	43.52	93.78	93.19	68.20	24.99	peak

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## 4.4.1.116 11AC40\_MIMO\_54\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

2

Mode : 5270 Band edge

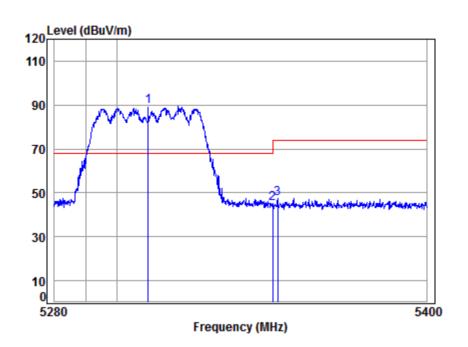
: 5G WIFI 11AC40

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dB dBuV dBuV/m dBuV/m MHz dB/m dB dB 5127.342 8.29 34.31 43.67 39.61 38.54 54.00 -15.46 Average 5149.980 8.33 34.32 43.64 38.28 37.29 54.00 -16.71 Average 8.51 34.42 43.52 86.52 85.93 ----- Average 5270.000

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### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

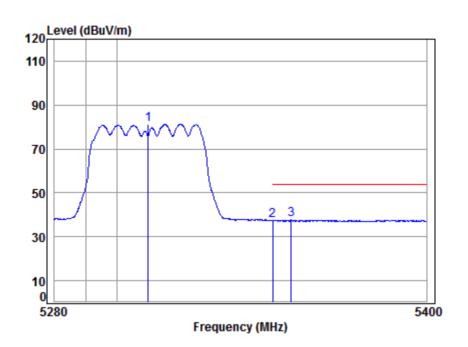
Mode : 5310 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5310.000								•	
5350.020								•	
5351.676	8.63	34.49	43.44	47.68	47.36	74.00	-26.64	peak	

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## 4.4.1.118 11AC40\_MIMO\_62\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

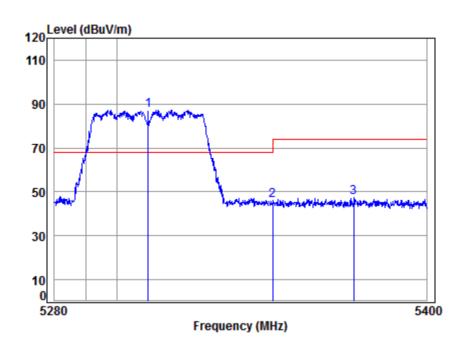
Mode : 5310 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	8.57	34.45	43.48	81.75	81.29			Average
2	5350.020	8.63	34.48	43.44	37.75	37.42	54.00	-16.58	Average
3	5356.007	8.64	34.49	43.43	37.96	37.66	54.00	-16.34	Average

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

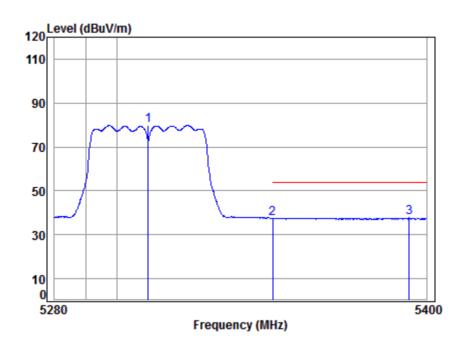
Mode : 5310 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	5310.000								•
	5350.020	8.63	34.48	43.44	46.60	46.27	74.00	-27.73	peak
	5376.388	8.67	34.50	43.41	47.52	47.28	74.00	-26.72	peak

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## 4.4.1.120 11AC40\_MIMO\_62\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

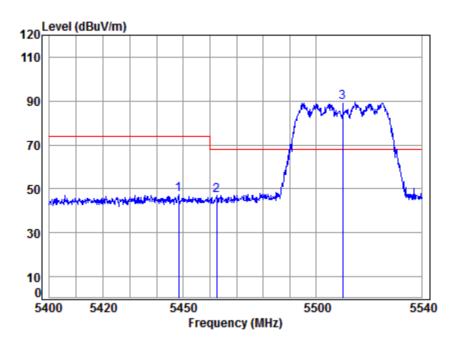
Mode : 5310 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5310.000	8.57	34.45	43.48	80.29	79.83			Average	
5350.020	8.63	34.48	43.44	37.78	37.45	54.00	-16.55	Average	
5394.420	8.70	34.52	43.40	37.83	37.65	54.00	-16.35	Average	

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### 4.4.1.121 11AC40 MIMO 102 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

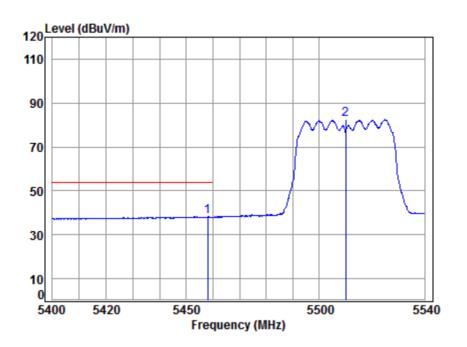
Mode : 5510 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5448.314	8.77	34.56	43.34	47.33	47.32	74.00	-26.68	peak
2	5462.557	8.80	34.57	43.33	46.99	47.03	68.20	-21.17	peak
3 *	5510.000	8.89	34.61	43.28	89.10	89.32	68.20	21.12	peak

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### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5510 Band edge

: 5G WIFI 11AC40

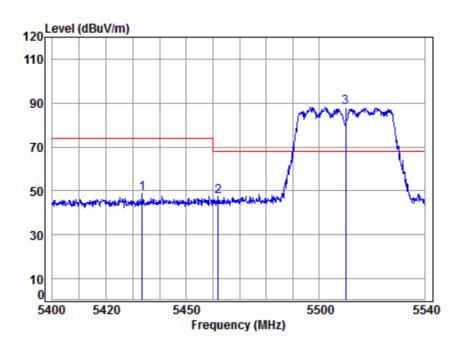
: MIMO

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Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

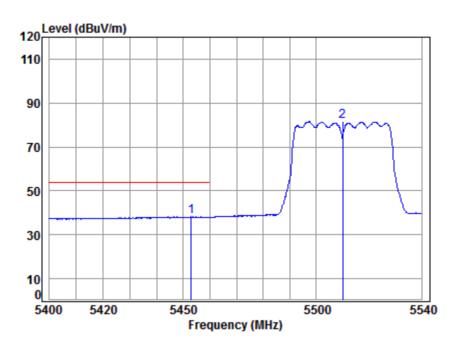
Mode : 5510 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5433.413								•	
	5461.998	8.79	34.57	43.33	47.54	47.57	68.20	-20.63	peak	
*	5510.000	8.89	34.61	43.28	87.79	88.01	68.20	19.81	peak	

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## 4.4.1.124 11AC40\_MIMO\_102\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1

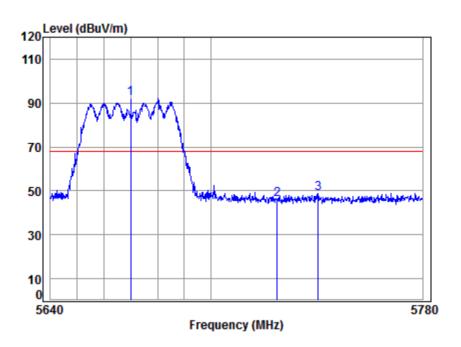
Mode : 5510 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5452.918	8.78	34.56	43.34	38.26	38.26	54.00	-15.74	Average	
5510.000	8.89	34.61	43.28	81.26	81.48			Average	

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### 4.4.1.125 11AC40 MIMO 134 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

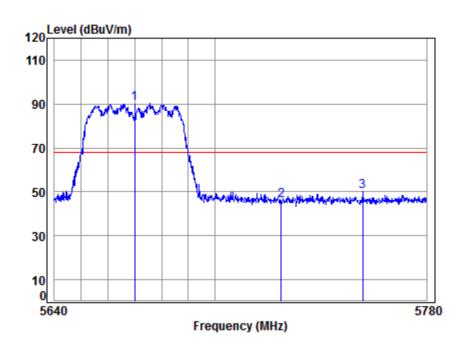
Mode : 5670 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	5670.000	9.45	34.77	43.13	90.92	92.01	68.20	23.81	peak
	5725.000	9.64	34.83	43.08	44.84	46.23	68.20	-21.97	peak
	5740.453	9.70	34.85	43.07	47.30	48.78	68.20	-19.42	peak

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5670 Band edge

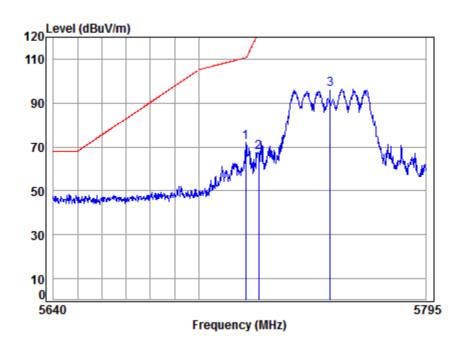
: 5G WIFI 11AC40

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB dB dΒ 1 \* 5670.000 9.45 34.77 43.13 89.02 90.11 68.20 21.91 peak 5725.000 9.64 34.83 43.08 44.56 45.95 68.20 -22.25 peak 9.75 34.86 43.05 48.51 50.07 68.20 -18.13 peak 5755.675

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### 4.4.1.127 11AC40 MIMO 151 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1

2

Mode : 5755 Band edge

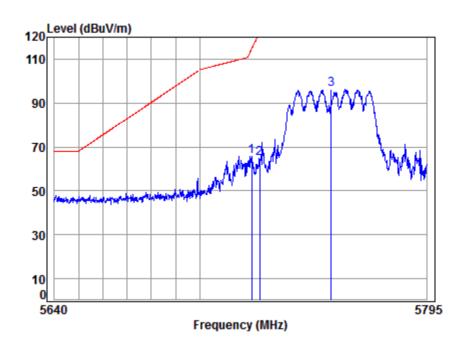
: 5G WIFI 11AC40

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5719.610 9.62 34.82 43.08 70.86 72.22 110.69 -38.47 peak 5725.000 9.64 34.83 43.08 66.34 67.73 122.20 -54.47 peak 9.75 34.86 43.05 94.55 96.11 125.20 -29.09 peak 5755.000

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

Mode : 5755 Band edge

: 5G WIFI 11AC40

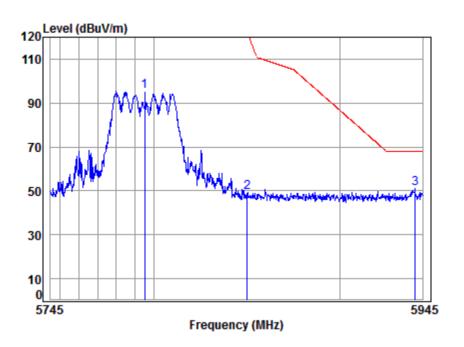
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5721.626	9.63	34.83	43.08	64.48	65.86	114.51	-48.65	peak
5725.000	9.64	34.83	43.08	63.32	64.71	122.20	-57.49	peak
5755.000	9.75	34.86	43.05	94.62	96.18	125.20	-29.02	peak

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### 4.4.1.129 11AC40 MIMO 159 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

Mode : 5795 Band edge

: 5G WIFI 11AC40

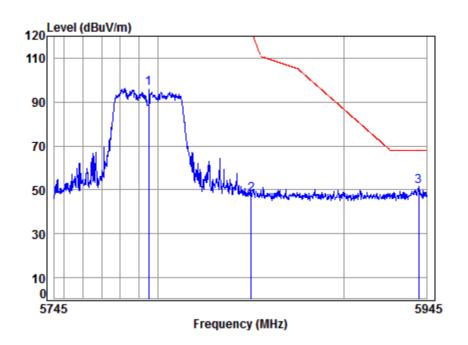
Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5795.000 5850.000								•	
5940.933	10.37	35.04	42.88	48.49	51.02	68.20	-17.18	peak	

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## 4.4.1.130 11AC40 MIMO 159 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

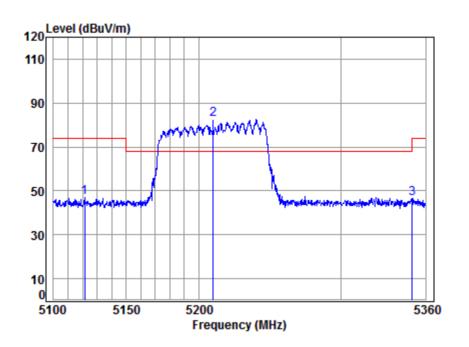
Mode : 5795 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	9.88	34.90	43.02	94.30	96.06	125.20	-29.14	peak
2	5850.000	10.07	34.95	42.96	46.06	48.12	122.20	-74.08	peak
3	5940.729	10.37	35.04	42.88	48.80	51.33	68.20	-16.87	peak

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## 4.4.1.131 11AC80\_MIMO\_42\_Peak\_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5210 Band edge

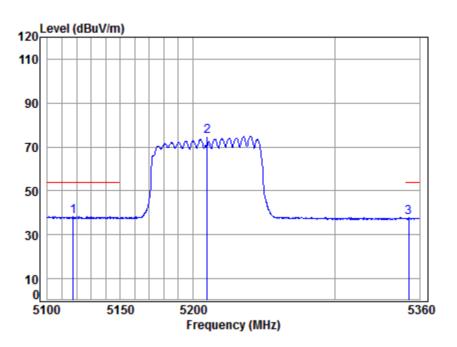
: 5G WIFI 11AC80

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5121.346 8.28 34.30 43.67 48.29 47.20 74.00 -26.80 peak 2 \* 5210.000 8.42 34.37 43.58 83.28 82.49 68.20 14.29 peak 8.63 34.48 43.44 46.91 46.58 74.00 -27.42 peak 5350.414

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## 4.4.1.132 11AC80\_MIMO\_42\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

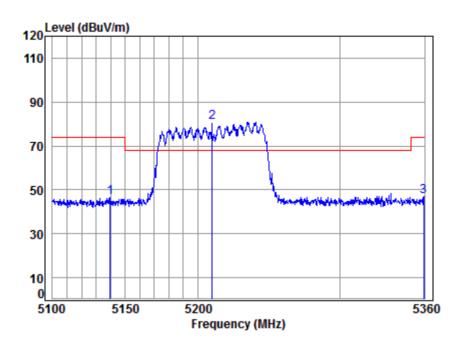
Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5117.782	8.28	34.30	43.68	39.51	38.41	54.00	-15.59	Average
2	5210.000	8.42	34.37	43.58	75.79	75.00			Average
3	5352.276	8.63	34.49	43.44	38.10	37.78	54.00	-16.22	Average

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### 4.4.1.133 11AC80 MIMO 42 Peak Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

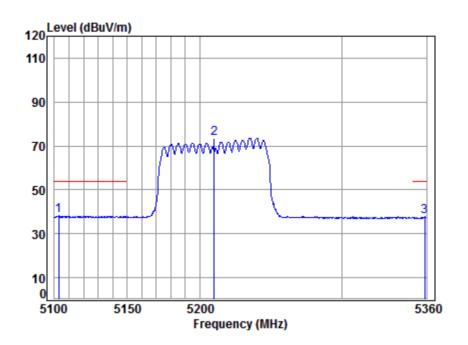
Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5139.714	8.31	34.32	43.65	47.77	46.75	74.00	-27.25	peak
2 *	5210.000	8.42	34.37	43.58	81.61	80.82	68.20	12.62	peak
3	5359.467	8.64	34.49	43.43	47.42	47.12	74.00	-26.88	peak

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## 4.4.1.134 11AC80\_MIMO\_42\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

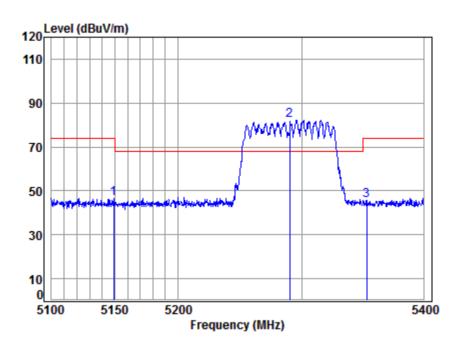
Mode : 5210 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5102.790	8.25	34.29	43.69	39.28	38.13	54.00	-15.87	Average	
5210.000	8.42	34.37	43.58	74.34	73.55			Average	
5358.667	8.64	34.49	43.43	38.13	37.83	54.00	-16.17	Average	

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### 4.4.1.135 11AC80 MIMO 58 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

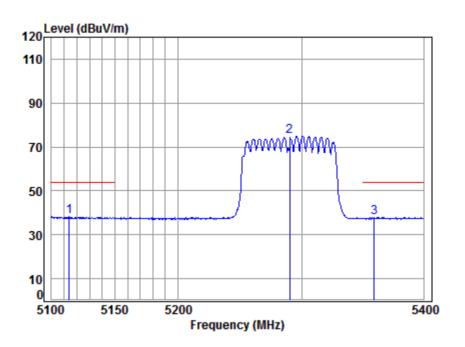
Mode : 5290 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5148.915	8.32	34.32	43.64	47.72	46.72	74.00	-27.28	peak	
*	5290.000	8.54	34.44	43.50	82.67	82.15	68.20	13.95	peak	
	5352.981	8.63	34.49	43.44	46.12	45.80	74.00	-28.20	peak	

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## 4.4.1.136 11AC80\_MIMO\_58\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

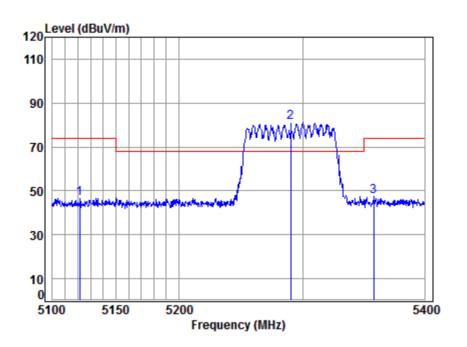
Mode : 5290 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5114.012	8.27	34.29	43.68	39.26	38.14	54.00	-15.86	Average	
5290.000	8.54	34.44	43.50	75.46	74.94			Average	
5359.411	8.64	34.49	43.43	38.03	37.73	54.00	-16.27	Average	

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## 4.4.1.137 11AC80\_MIMO\_58\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5290 Band edge

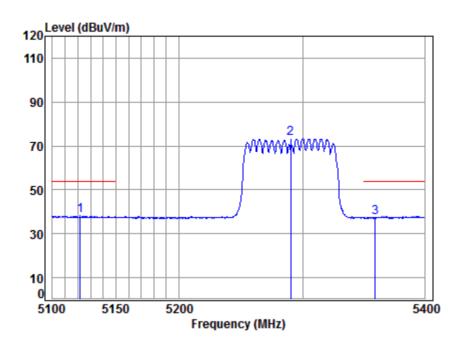
: 5G WIFI 11AC80

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5121.617 8.28 34.30 43.67 47.62 46.53 74.00 -27.47 peak 2 \* 5290.000 8.54 34.44 43.50 81.56 81.04 68.20 12.84 peak 8.64 34.49 43.43 47.73 47.43 74.00 -26.57 peak 5357.879

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## 4.4.1.138 11AC80\_MIMO\_58\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

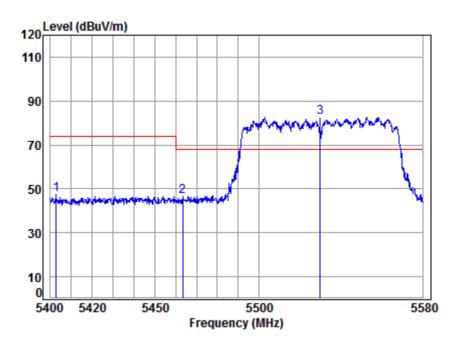
Mode : 5290 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5121.910	8.28	34.30	43.67	39.23	38.14	54.00	-15.86	Average	
5290.000	8.54	34.44	43.50	73.96	73.44			Average	
5359.104	8.64	34.49	43.43	37.87	37.57	54.00	-16.43	Average	

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### 4.4.1.139 11AC80 MIMO 106 Peak Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

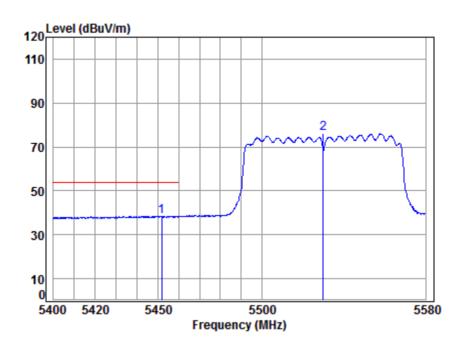
Mode : 5530 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5402.657 5463.404								•
* 5530.000								•

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## 4.4.1.140 11AC80\_MIMO\_106\_Average\_Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5530 Band edge

: 5G WIFI 11AC80

: MIMO

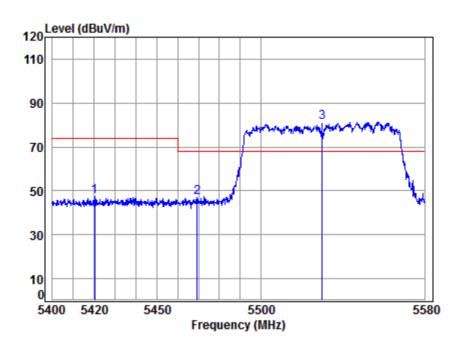
Cable Ant Preamp Read Limit Over
Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

5451.772 8.78 34.56 43.34 38.55 38.55 54.00 -15.45 Average 5530.000 8.96 34.63 43.26 75.64 75.97 ----- Average

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## 4.4.1.141 11AC80\_MIMO\_106\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

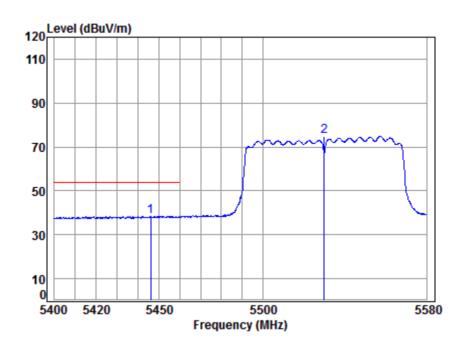
Mode : 5530 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5420.223	8.73	34.54	43.37	47.33	47.23	74.00	-26.77	peak	
	5469.319	8.81	34.58	43.32	46.73	46.80	68.20	-21.40	peak	
*	5530.000	8.96	34.63	43.26	81.00	81.33	68.20	13.13	peak	

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## 4.4.1.142 11AC80\_MIMO\_106\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

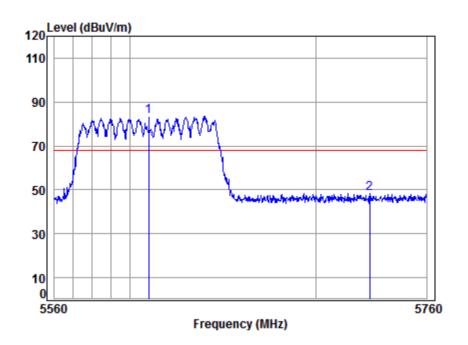
Mode : 5530 Band edge

: 5G WIFI 11AC80

: MIMO

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## 4.4.1.143 11AC80\_MIMO\_122\_Peak\_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

Mode : 5610 Band edge

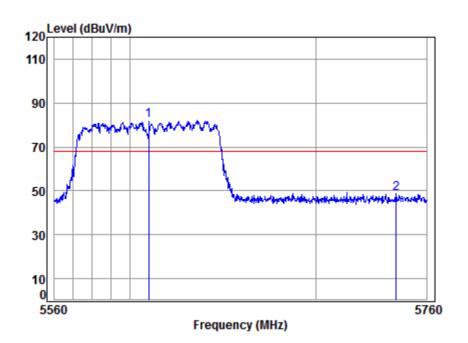
: 5G WIFI 11AC80

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1 \* 5610.000 9.24 34.71 43.19 82.80 83.56 68.20 15.36 peak 5728.940 9.66 34.83 43.08 46.74 48.15 68.20 -20.05 peak

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5610 Band edge

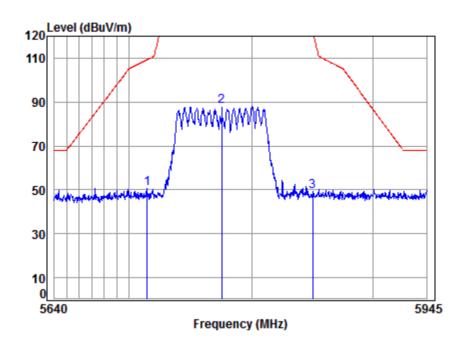
: 5G WIFI 11AC80

: MIMO

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1 \* 5610.000 9.24 34.71 43.19 81.48 82.24 68.20 14.04 peak 5743.536 9.71 34.85 43.06 47.11 48.61 68.20 -19.59 peak

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## 4.4.1.145 11AC80\_MIMO\_155\_Peak\_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

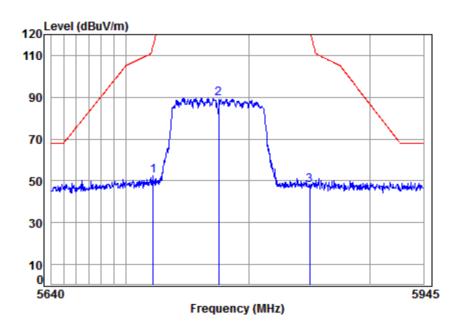
Mode : 5775 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5714.751	9.61	34.82	43.09	49.53	50.87	109.33	-58.46	peak
5775.000	9.81	34.88	43.03	86.48	88.14	125.20	-37.06	peak
5850.000	10.07	34.95	42.96	47.40	49.46	122.20	-72.74	peak

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### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2 3

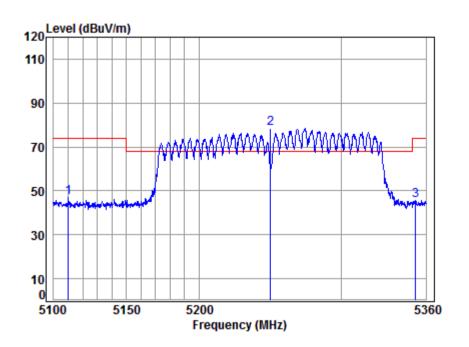
Mode : 5775 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5721.677	9.63	34.83	43.08	51.11	52.49	114.62	-62.13	peak
5775.000	9.81	34.88	43.03	87.77	89.43	125.20	-35.77	peak
5850.000	10.07	34.95	42.96	45.74	47.80	122.20	-74.40	peak

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#### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

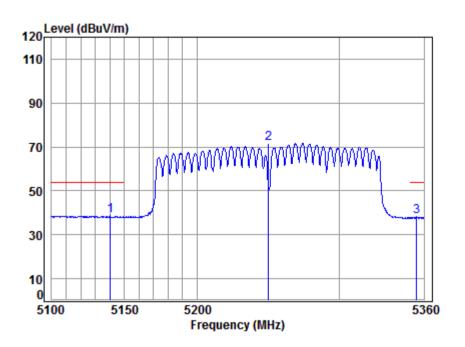
Mode : 5250 Band edge

: 5G WIFI 11AC160

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5110.154 * 5250.000 5352.542	8.48	34.40	43.54	79.06	78.40	68.20	10.20	peak

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#### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

1 2

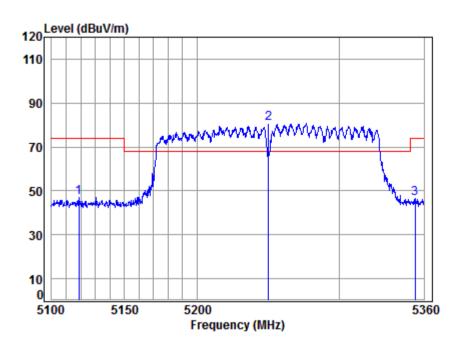
Mode : 5250 Band edge

: 5G WIFI 11AC160

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5140.225	8.31	34.32	43.65	39.70	38.68	54.00	-15.32	Average	
5250.000	8.48	34.40	43.54	72.42	71.76			Average	
5354.672	8.64	34.49	43.44	38.45	38.14	54.00	-15.86	Average	

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### 4.4.1.149 11AC160\_MIMO\_50\_Peak\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

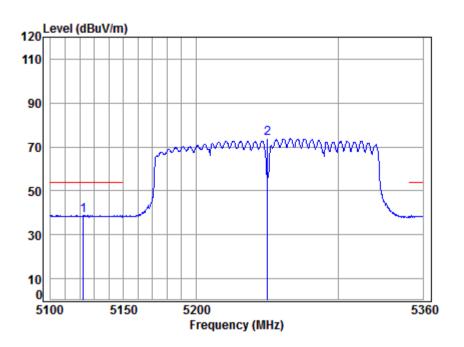
Mode : 5250 Band edge

: 5G WIFI 11AC160

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 5118.546	8.28	34.30	43.68	48.10	47.00	74.00	-27.00	peak	
2 * 5250.000	8.48	34.40	43.54	81.48	80.82	68.20	12.62	peak	
3 5353.874	8.64	34.49	43.44	46.80	46.49	74.00	-27.51	neak	

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### 4.4.1.150 11AC160\_MIMO\_50\_Average\_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

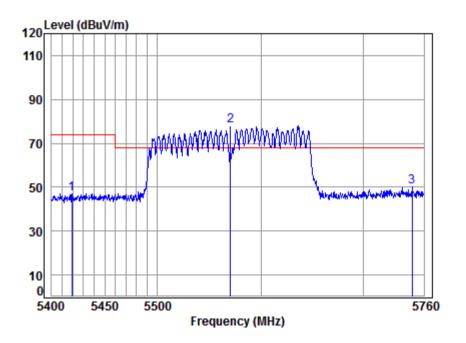
Mode : 5250 Band edge

: 5G WIFI 11AC160

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5122.365	8.28	34.30	43.67	40.03	38.94	54.00	-15.06	Average	
5250.000	8.48	34.40	43.54	74.44	73.78			Average	
5360.000	8.64	34.49	43.43	39.05	38.75	54.00	-15.25	Average	

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#### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

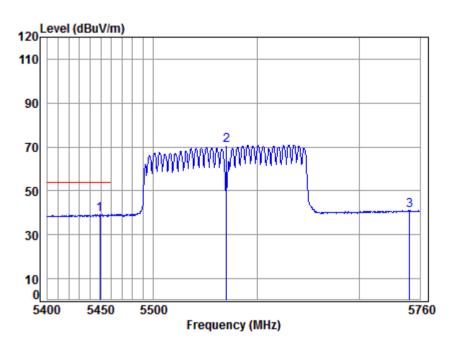
Mode : 5570 Band edge

: 5G WIFI 11AC160

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5418.852	8.73	34.54	43.37	47.07	46.97	74.00	-27.03	peak
2 *	5570.000	9.10	34.67	43.23	77.57	78.11	68.20	9.91	peak
3	5748.117	9.72	34.85	43.06	48.52	50.03	68.20	-18.17	peak

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#### 



Site : chamber Condition: 3m VERTICAL

Job No : 10002

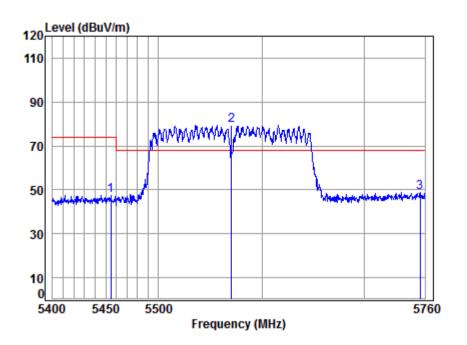
Mode : 5570 Band edge

: 5G WIFI 11AC160

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5449.012	8.78	34.56	43.34	39.31	39.31	54.00	-14.69	Average	
2	5570.000	9.10	34.67	43.23	70.39	70.93			Average	
3	5749.601	9.73	34.86	43.06	39.66	41.19			Average	

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#### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

1 2

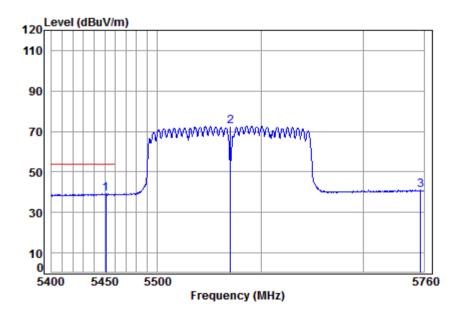
Mode : 5570 Band edge

: 5G WIFI 11AC160

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5454.994								•
5570.000 5755.169								•

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#### 



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10002

Mode : 5570 Band edge

: 5G WIFI 11AC160

: MIMO

Frea			Preamp Factor						
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5451.123	8.78	34.56	43.34	39.07	39.07	54.00	-14.93	Average	
5570.000								_	
5756.655	9.75	34.86	43.05	39.38	40.94			Average	

#### Remark:

2

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor All modes have been tested, but only the worst case data displayed in this report.

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## 4.5 Dynamic Frequency Selection

#### 4.5.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode						
	Master	Client Without Radar Detection	Client With Radar Detection				
Non-Occupancy Period	Yes	Not required	Yes				
DFS Detection Threshold	Yes	Not required	Yes				
Channel Availability Check Time	Yes	Not required	Not required				
U-NII Detection Bandwidth	Yes	Not required	Yes				

Table 2: Applicability of DFS requirements during normal operation

Master Device or Client with Radar Detection Yes Yes Yes Yes	Client Without Radar Detection Not required Yes
Yes	^
	Yes
Vac	
1 68	Yes
Yes	Not required
Master Device or Client with	Client Without Radar
Radar Detection	Detection
All BW modes must be tested	Not required
Test using widest BW mode	Test using the widest
available	BW mode available for
	the link
Any single BW mode	Not required
	Yes  Master Device or Client with Radar Detection  All BW modes must be tested  Test using widest BW mode available

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

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#### 4.5.2 DFS Detection Thresholds

## Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.

**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

## 4.5.3 Response Requirements

#### **Table 4: DFS Response Requirement Values**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

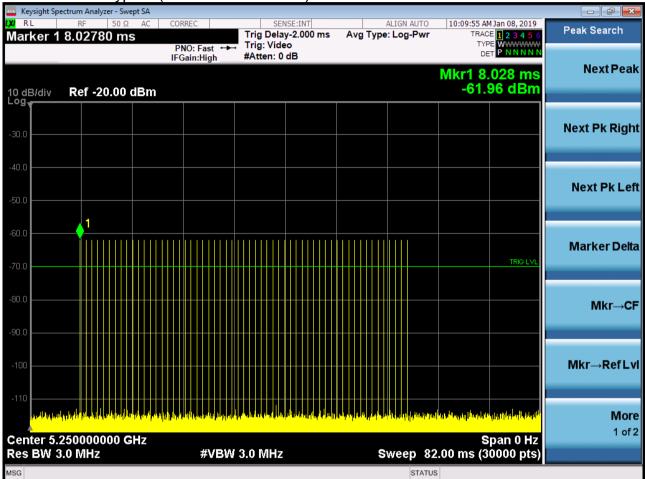
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## 4.5.4 Test plots

Remark: Only the data of Ant.1 is recorded.

4.5.4.1 Radar Waveform Calibration Result

Radar Type 0 (160MHz / 5250MHz)





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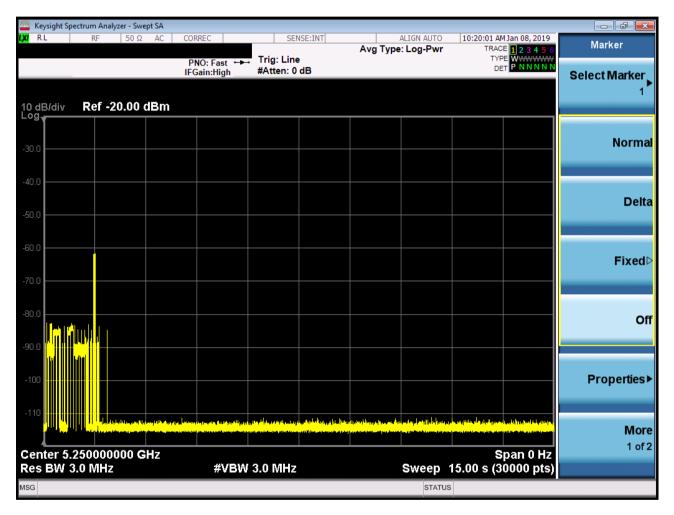
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### 4.5.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
160MHz /	Channel Move Time	0.34s	<10s	Pass
5250MHz	Channel Closing Transmission Time	0.5ms	<60ms	Pass

## 4.5.5.1 Test plots

### 4.5.5.1.1 Test Bandwidth/Channel= 160MHz / 5250MHz



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## 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Dedicted Courieus emission test	±4.5dB (30MHz-1GHz)
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%

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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2018/4/2	2019/4/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2018/2/14	2019/2/13
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2018/2/14	2019/2/13
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2018/2/14	2019/2/13
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/4/2	2019/4/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018/9/2	2019/9/2
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87- WRT3200ACM IC ID:3839A- WRT3200ACM	N/A	N/A

RE in Chamber						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4	
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11	
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2	
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26	
Pre-amplifier (0.1- 1.3GHz)	Agilent Technologies	8447D	SEM005-01	2018/4/2	2019/4/1	

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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k- 7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/4/2	2019/4/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2018/4/13	2019/4/12
Loop Antenna (9kHz- 30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2018/4/2	2019/4/1
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz- 18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412
Horn Antenna (15- 40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier(0.1- 26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/11/20	2019/11/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018/4/2	2019/4/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11

## 7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for HR/2019/10002.

The End