TEST REPORT

Application No.:	SZCR2409003604WM
Applicant:	Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Applicant:	NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Manufacturer:	NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,China
Equipment Under Test (EUT):	
EUT Description:	Mobile Phone
Model No.:	CPH2697
Trade Mark:	OPPO
FCC ID:	R9C-OP24261
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2024-09-23
Date of Test:	2024-10-18 to 2024-11-27
Date of Issue:	2024-11-28
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2024-11-28		Original

Authorized for issue by:				
		Sherlock Fang **Sherlock Fang/Project Engineer**		
		Eric Fu **Eric Fu/Reviewer**		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	
Duty Cycle		KDB 789033 D02 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 D02 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	

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4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile Phone	
Model No.:	CPH2697	
Trade Mark:	OPPO	
Hardware Version:	11	
Software Version:	ColorOS 15.0	
Power Supply:	DC 3.92V from internal rechargeable battery which can be charged by AC/DC adapter	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
	160MHz:	802.11ac(VHT160)/ax(HE160)
Antenna Type:	IFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: -0.5dBi(Ant8); -1.05dBi(Ant9); 5250MHz to 5350MHz: -0.5dBi(Ant8); -1.4dBi(Ant9); 5470MHz to 5725MHz: 0.5dBi(Ant8); -0.91dBi(Ant9); 5725MHz to 5850MHz: 0.3dBi(Ant8); -0.94dBi(Ant9);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac/ax
	☒ MIMO	CDD: 802.11a/n/ac/ax: 2Tx & 2Rx

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	☒ Diversity	802.11a: 2Tx & 2Rx	
TPC Function:	☐Support, ☒Not Support		
DFS Function:	☐Master		
	☐Slave with radar detection	☒Slave with radar detection	
RF Cable:	4900MHz ~ 5250MHz(1.6dB)	5250MHz ~ 5350MHz(1.7dB)	
	5470MHz ~ 5725MHz(1.8dB)	5725MHz ~ 5850MHz (2dB)	
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4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	38.9-50.8 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22.5~24.5	3.92
Note: NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature		

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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R7800	SZ-WRG-A-072

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.5 Test Location

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

• 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Maximum Conducted output power					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

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Radiated Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

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DFS					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13
Router	NETGEAR	R7800	SZ-WRG-A-072	NCR	NCR

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is an PIFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best case gain of the antenna is

5150MHz to 5250MHz: -0.5dBi(Ant8); -1.05dBi(Ant9); *

5250MHz to 5350MHz: -0.5dBi(Ant8); -1.4dBi(Ant9); *

5470MHz to 5725MHz: 0.5dBi(Ant8); -0.91dBi(Ant9); *

5725MHz to 5850MHz: 0.3dBi(Ant8); -0.94dBi(Ant9); *

**Note:*

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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 logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

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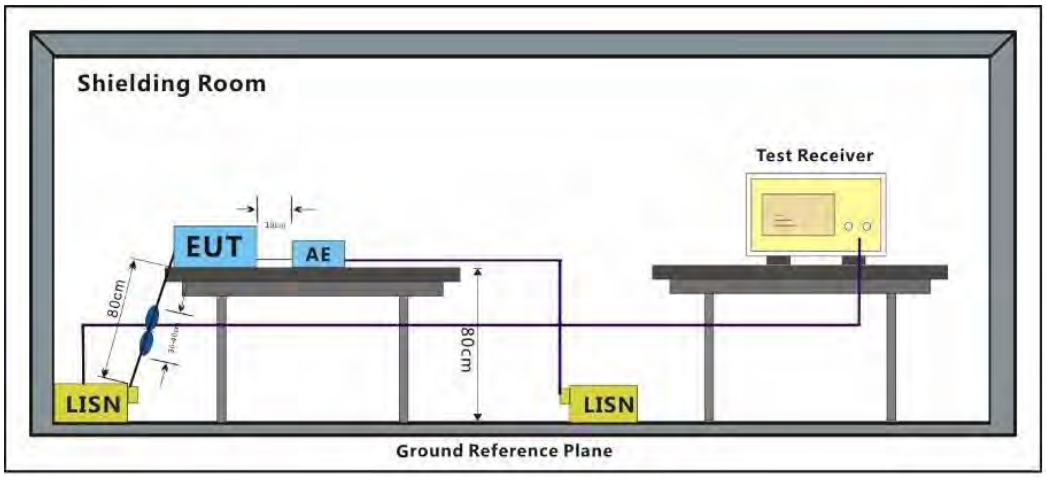
7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the 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 units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

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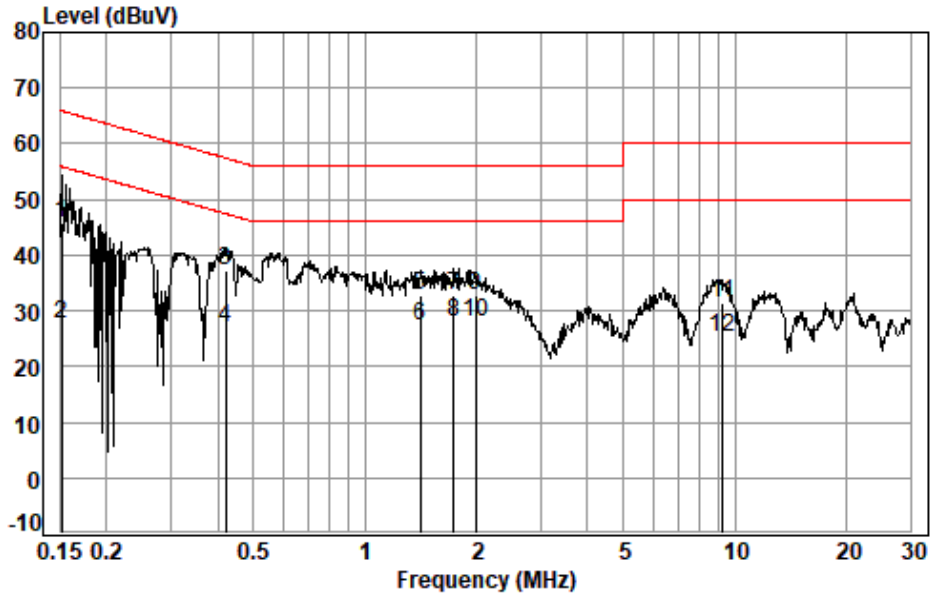
Test Mode: 14; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03604WM
Test mode: 14

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1516	0.06	9.81	35.85	45.72	65.91	-20.19	QP
2		0.1516	0.06	9.81	17.73	27.60	55.91	-28.31	Average
3		0.4215	0.07	9.72	27.33	37.12	57.42	-20.30	QP
4		0.4215	0.07	9.72	17.07	26.86	47.42	-20.56	Average
5		1.4107	0.10	9.69	22.84	32.63	56.00	-23.37	QP
6		1.4107	0.10	9.69	17.49	27.28	46.00	-18.72	Average
7		1.7345	0.10	9.67	23.14	32.91	56.00	-23.09	QP
8		1.7345	0.10	9.67	18.15	27.92	46.00	-18.08	Average
9		1.9906	0.10	9.66	23.07	32.83	56.00	-23.17	QP
10	*	1.9906	0.10	9.66	18.37	28.13	46.00	-17.87	Average
11		9.2532	0.19	9.89	21.24	31.32	60.00	-28.68	QP
12		9.2532	0.19	9.89	15.32	25.40	50.00	-24.60	Average

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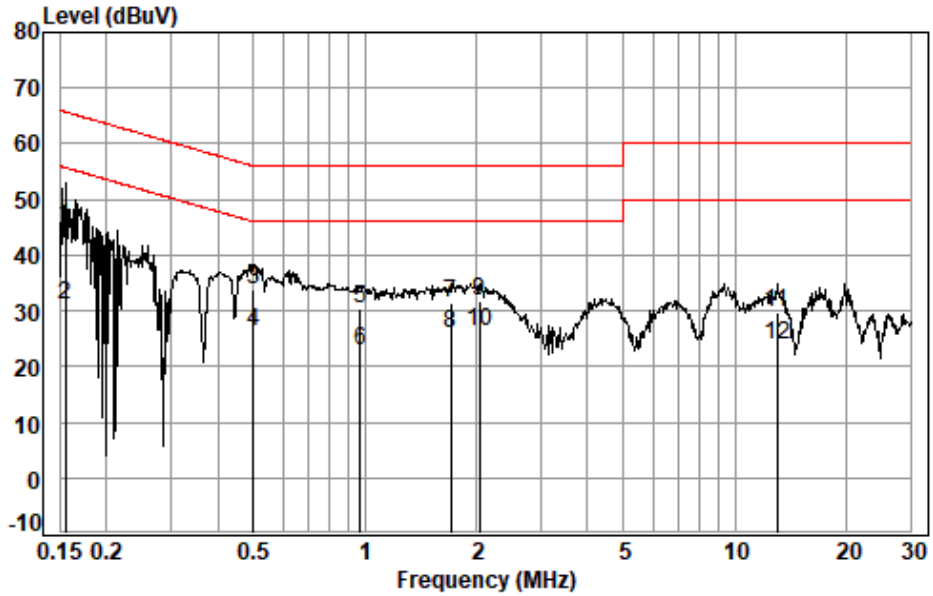
Test Mode: 14; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03604WM
Test mode: 14

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1548	0.06	9.82	35.32	45.20	65.74	-20.54	QP
2		0.1548	0.06	9.82	21.23	31.11	55.74	-24.63	Average
3		0.4994	0.08	9.72	23.98	33.78	56.01	-22.23	QP
4		0.4994	0.08	9.72	16.44	26.24	46.01	-19.77	Average
5		0.9735	0.09	9.73	20.71	30.53	56.00	-25.47	QP
6		0.9735	0.09	9.73	13.14	22.96	46.00	-23.04	Average
7		1.7071	0.10	9.70	21.71	31.51	56.00	-24.49	QP
8		1.7071	0.10	9.70	16.20	26.00	46.00	-20.00	Average
9		2.0441	0.10	9.69	21.82	31.61	56.00	-24.39	QP
10	*	2.0441	0.10	9.69	16.59	26.38	46.00	-19.62	Average
11		12.9885	0.24	10.11	19.47	29.82	60.00	-30.18	QP
12		12.9885	0.24	10.11	13.70	24.05	50.00	-25.95	Average

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7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram

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7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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7.3 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: KDB 789033 D02 II G
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

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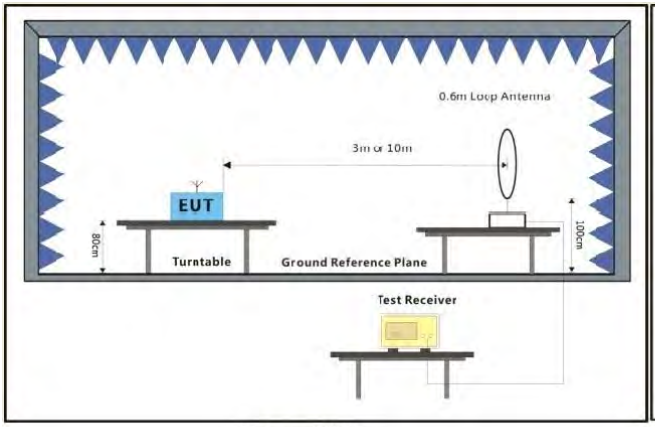
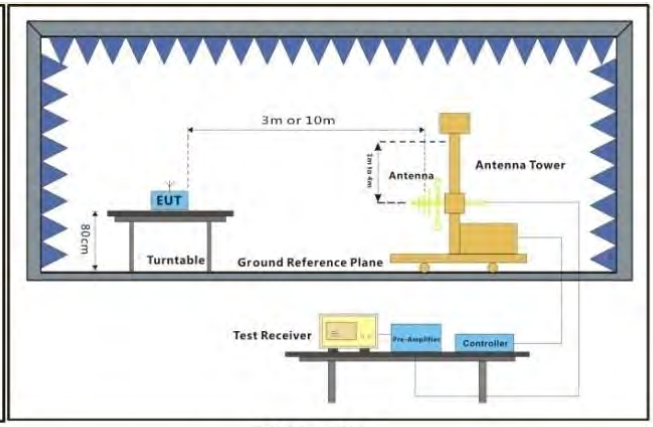
7.3.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. 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.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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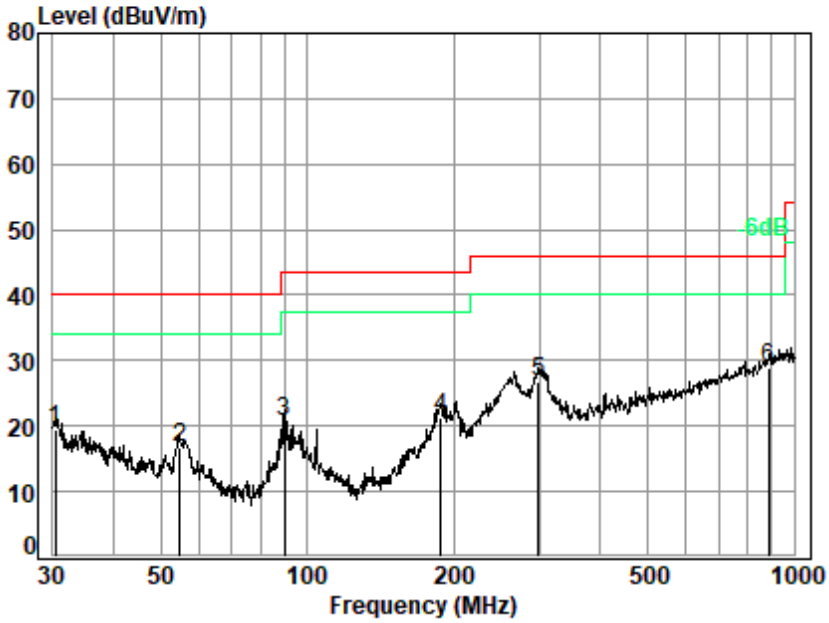
Test Mode: 14; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03604WM
Test Mode: 14

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.424	21.00	0.68	27.79	25.47	19.36	40.00	-20.64	QP
2	54.643	12.02	0.90	27.72	31.47	16.67	40.00	-23.33	QP
3	89.905	11.72	1.16	27.62	35.31	20.57	43.50	-22.93	QP
4	187.753	14.30	1.71	27.22	32.49	21.28	43.50	-22.22	QP
5	298.268	17.82	2.19	26.76	33.50	26.75	46.00	-19.25	QP
6 q	887.610	27.96	4.09	26.85	23.76	28.96	46.00	-17.04	QP

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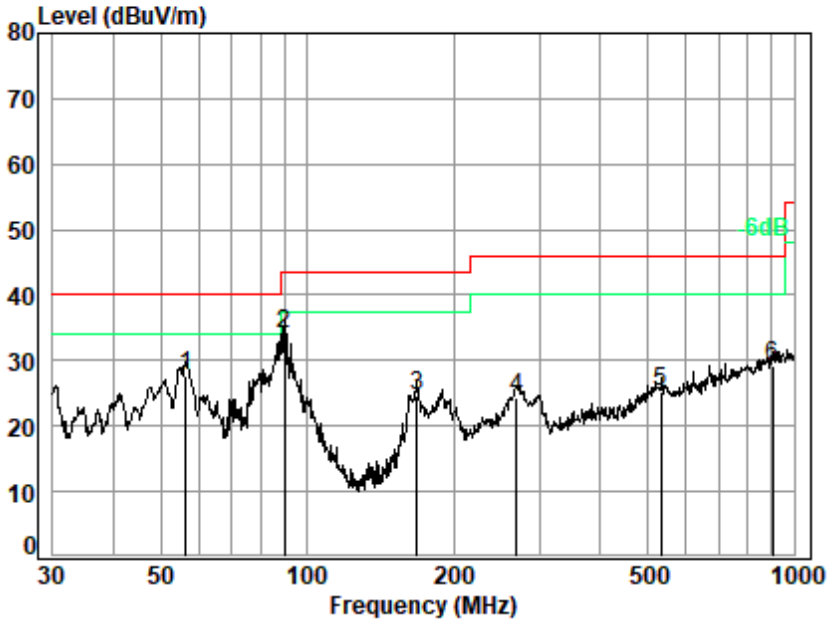
Test Mode: 14; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode: 14

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.92	27.72	42.66	27.67	40.00	-12.33	QP
2 q	89.905	11.72	1.16	27.62	48.95	34.21	43.50	-9.29	QP
3	167.824	13.17	1.62	27.31	37.22	24.70	43.50	-18.80	QP
4	268.485	17.09	2.08	26.88	31.90	24.19	46.00	-21.81	QP
5	533.832	23.39	3.03	27.70	26.55	25.27	46.00	-20.73	QP
6	903.309	27.83	4.13	26.74	23.99	29.21	46.00	-16.79	QP

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7.4 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: KDB 789033 D02 II G
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

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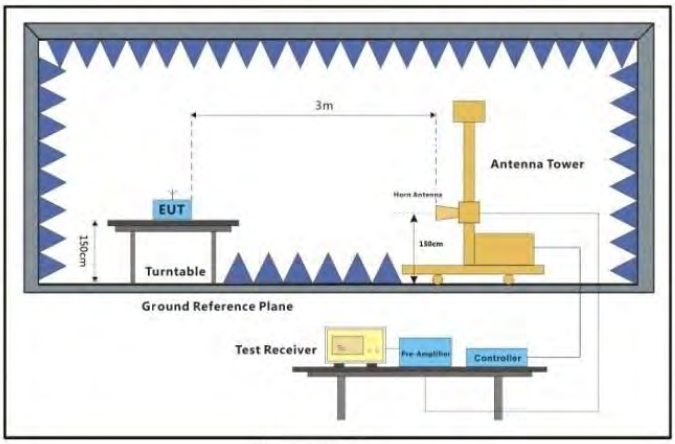
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz

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7.4.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

6.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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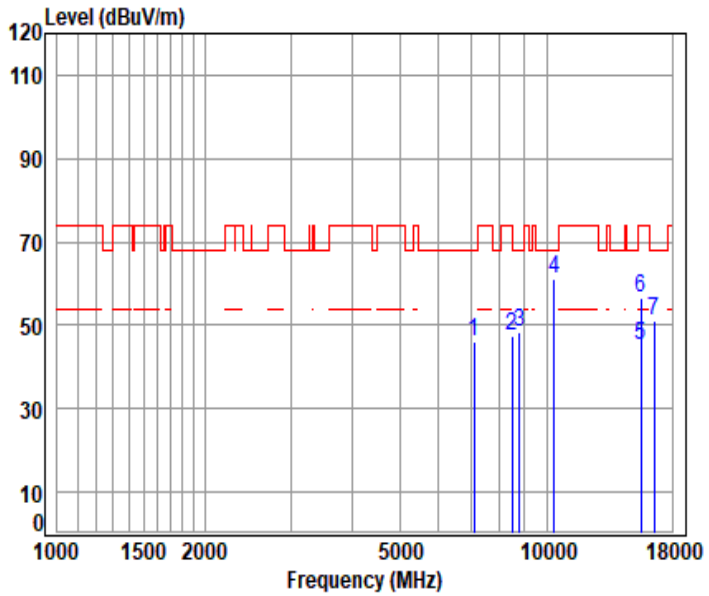
11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	54.28	46.01	68.20	-22.19	peak
2	8470.845	12.11	38.36	55.48	52.52	47.51	74.00	-26.49	peak
3	8787.224	12.23	38.50	55.19	52.66	48.20	68.20	-20.00	peak
4	pp10360.000	13.61	39.00	53.88	62.34	61.07	68.20	-7.13	Peak
5	av15540.000	17.00	38.56	54.14	43.54	44.96	54.00	-9.04	Average
6	15540.000	17.00	38.56	54.14	55.38	56.80	74.00	-17.20	peak
7	16540.810	17.70	39.02	54.16	48.50	51.06	68.20	-17.14	peak

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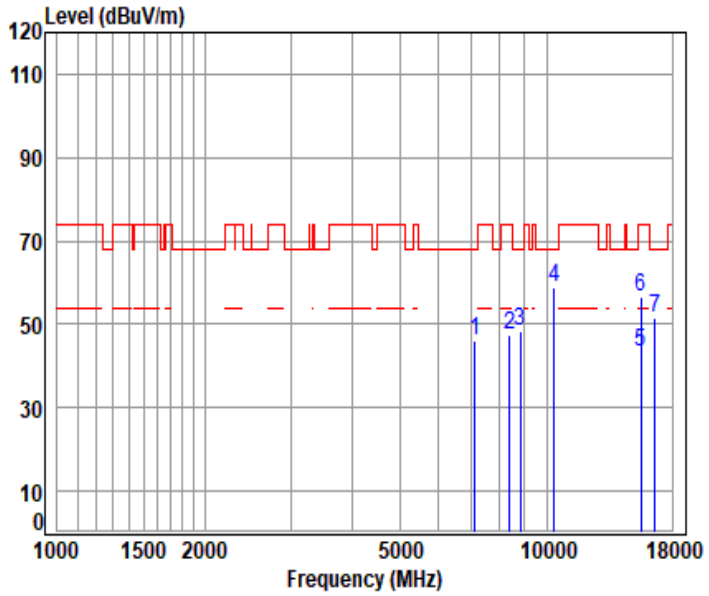
11a_TX_CH_36_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7138.557	11.81	36.48	56.59	54.26	45.96	68.20	-22.24	peak
2	8385.002	11.65	38.63	55.55	52.76	47.49	74.00	-26.51	peak
3	8823.098	12.24	38.50	55.16	52.63	48.21	68.20	-19.99	peak
4	pp10360.000	13.60	39.00	53.88	60.11	58.83	68.20	-9.37	peak
5	av15540.000	17.00	38.56	54.14	42.10	43.52	54.00	-10.48	Average
6	15540.000	17.00	38.56	54.14	55.08	56.50	74.00	-17.50	peak
7	16608.340	17.64	39.22	54.18	48.71	51.39	68.20	-16.81	peak

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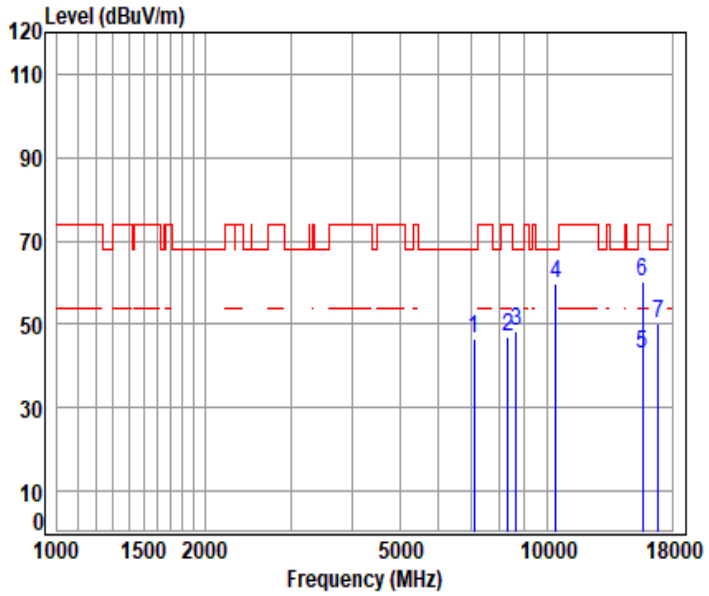
11a_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5220 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	54.65	46.41	68.20	-21.79	peak
2	8325.429	11.73	38.31	55.61	52.65	47.08	74.00	-26.92	peak
3	8662.807	12.04	38.45	55.30	53.17	48.36	68.20	-19.84	peak
4	pp10440.000	13.63	39.04	53.84	61.00	59.83	68.20	-8.37	peak
5	av15660.000	17.23	38.56	54.10	41.34	43.03	54.00	-10.97	Average
6	15660.000	17.23	38.56	54.10	58.68	60.37	74.00	-13.63	peak
7	16846.870	17.80	39.60	54.25	47.13	50.28	68.20	-17.92	peak

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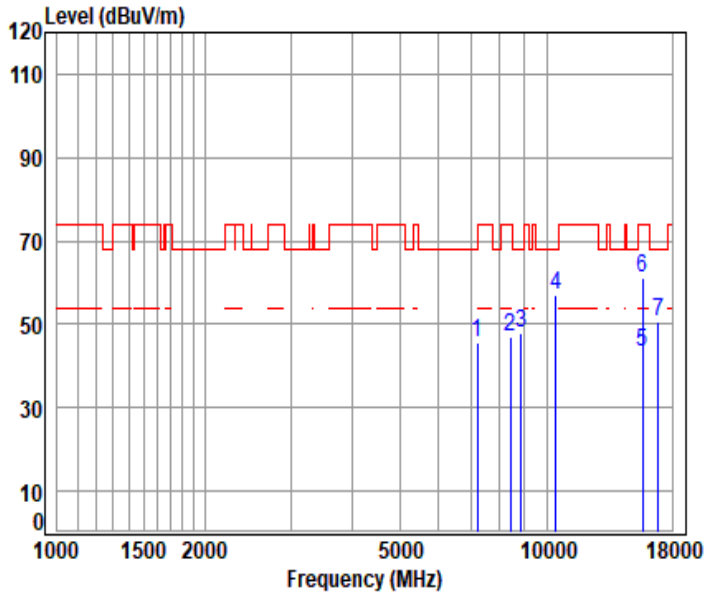
11a_TX_CH_44_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5220 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7196.963	11.53	36.59	56.54	54.06	45.64	68.20	-22.56	peak
2	8410.663	11.70	38.56	55.53	52.27	47.00	74.00	-27.00	peak
3	8868.147	12.23	38.54	55.12	52.22	47.87	68.20	-20.33	peak
4	pk10440.000	13.63	39.04	53.84	58.18	57.01	68.20	-11.19	peak
5	pp15660.000	17.23	38.56	54.10	41.69	43.38	54.00	-10.62	Average
6	15660.000	17.23	38.56	54.10	59.50	61.19	74.00	-12.81	peak
7	16881.220	18.04	39.60	54.26	47.35	50.73	68.20	-17.47	peak

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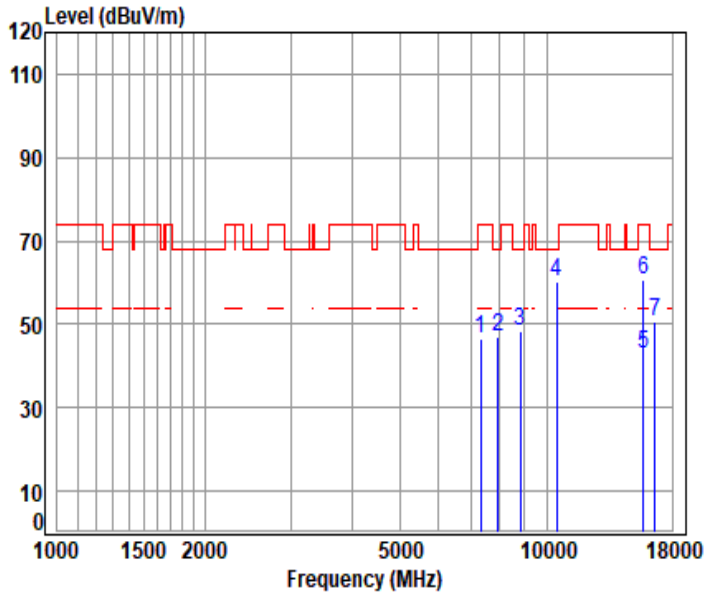
11a_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5240 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	54.71	46.49	74.00	-27.51	peak
2	7944.345	11.55	37.69	55.94	53.84	47.14	68.20	-21.06	peak
3	8832.090	12.24	38.50	55.15	52.85	48.44	68.20	-19.76	peak
4	pp10480.000	13.64	39.08	53.81	61.45	60.36	68.20	-7.84	peak
5	av15720.000	17.22	38.58	54.08	41.33	43.05	54.00	-10.95	Average
6	15720.000	17.22	38.58	54.08	58.90	60.62	74.00	-13.38	peak
7	16591.430	17.66	39.17	54.18	47.97	50.62	68.20	-17.58	peak

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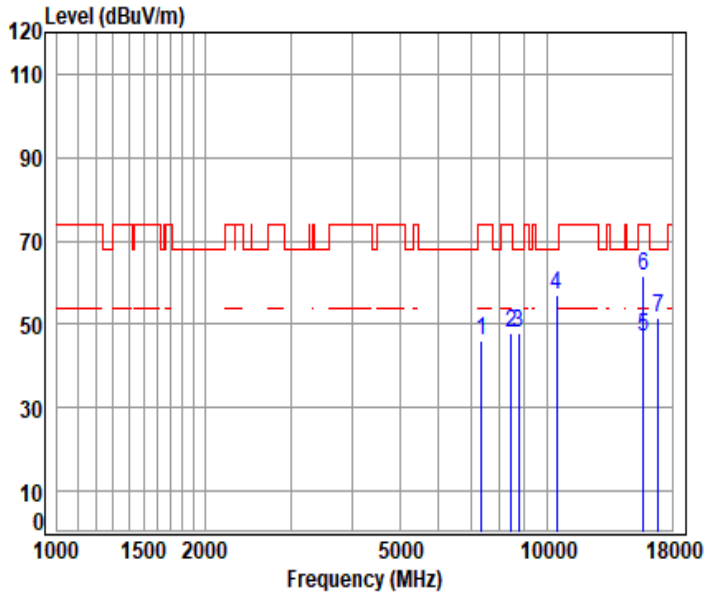
11a_TX_CH_48_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5240 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	54.11	45.97	74.00	-28.03	peak
2	8462.222	12.05	38.38	55.48	52.79	47.74	74.00	-26.26	peak
3	8769.341	12.20	38.50	55.21	52.51	48.00	68.20	-20.20	peak
4	pk10480.000	13.64	39.08	53.81	58.01	56.92	68.20	-11.28	peak
5	pp15720.000	17.22	38.58	54.08	45.35	47.07	54.00	-6.93	Average
6	15720.000	17.22	38.58	54.08	59.72	61.44	74.00	-12.56	peak
7	16881.220	18.04	39.60	54.26	48.07	51.45	68.20	-16.75	peak

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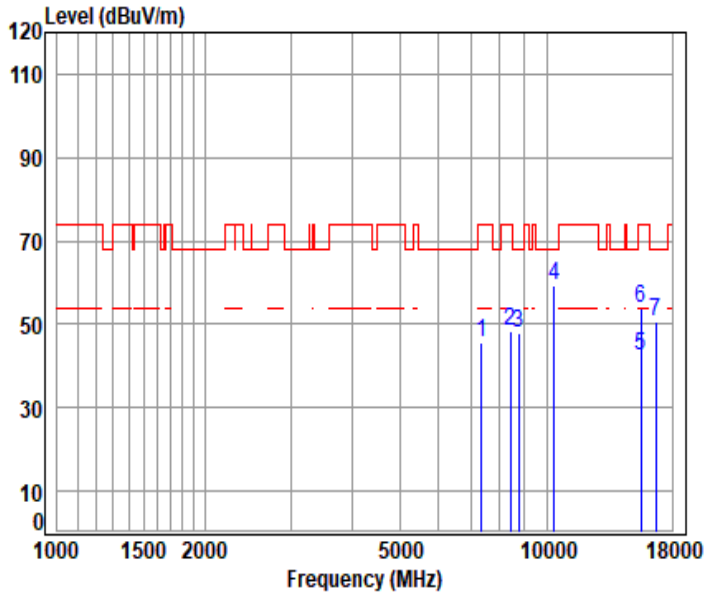
11ax_20M_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	53.77	45.65	74.00	-28.35	peak
2	8410.663	11.70	38.56	55.53	53.63	48.36	74.00	-25.64	peak
3	8760.413	12.19	38.50	55.22	52.33	47.80	68.20	-20.40	peak
4	pp10360.000	13.60	39.00	53.88	60.68	59.40	68.20	-8.80	peak
5	av15540.000	17.00	38.56	54.14	40.84	42.26	54.00	-11.74	Average
6	15540.000	17.00	38.56	54.14	52.36	53.78	74.00	-20.22	peak
7	16693.140	17.59	39.39	54.21	47.99	50.76	68.20	-17.44	peak

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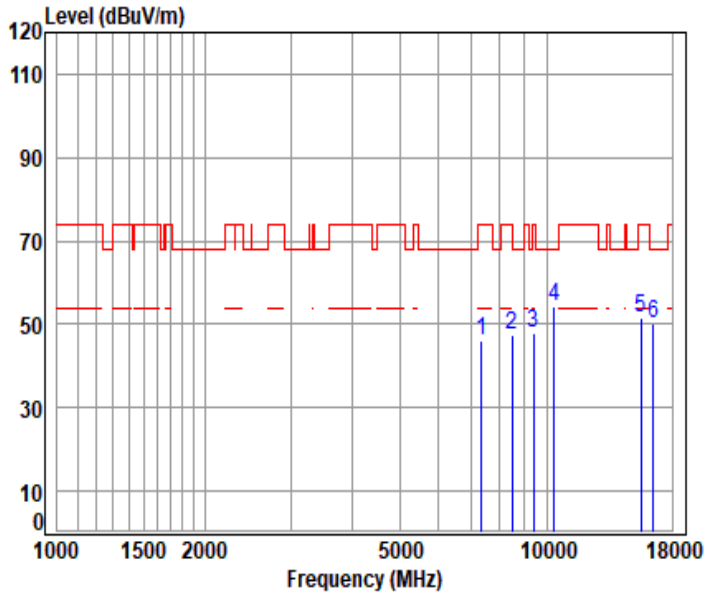
11ax_20M_TX_CH_36_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	54.41	46.28	74.00	-27.72	peak
2	8488.119	12.23	38.32	55.46	52.37	47.46	74.00	-26.54	peak
3	9398.258	12.30	38.80	54.64	51.47	47.93	74.00	-26.07	peak
4	pp10360.000	13.60	39.00	53.88	55.72	54.44	68.20	-13.76	peak
5	15540.000	17.00	38.56	54.14	49.98	51.40	74.00	-22.60	peak
6	16507.140	17.73	38.92	54.15	47.89	50.39	68.20	-17.81	peak

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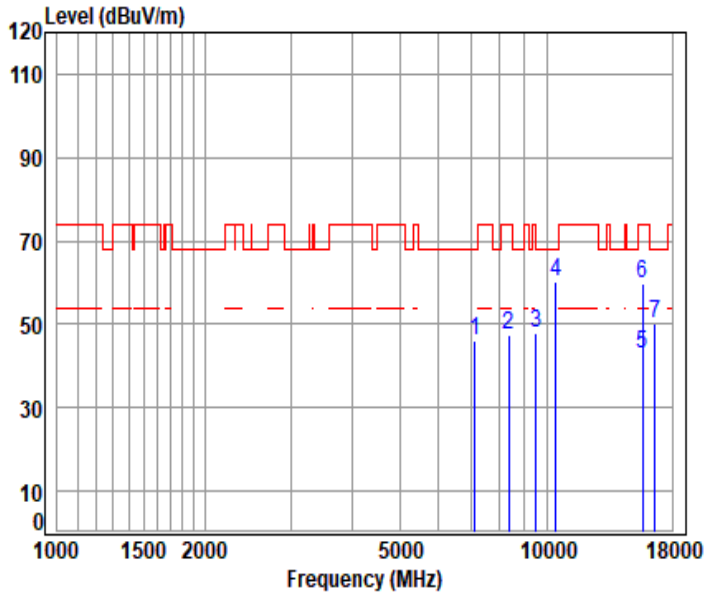
11ax_20M_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5220 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	54.42	46.13	68.20	-22.07	peak
2	8350.908	11.69	38.70	55.58	52.81	47.62	74.00	-26.38	peak
3	9504.150	12.55	38.89	54.55	51.24	48.13	68.20	-20.07	peak
4	pp10440.000	13.63	39.04	53.84	61.62	60.45	68.20	-7.75	peak
5	av15660.000	17.23	38.56	54.10	41.18	42.87	54.00	-11.13	Average
6	15660.000	17.23	38.56	54.10	58.11	59.80	74.00	-14.20	peak
7	16625.260	17.63	39.25	54.19	47.67	50.36	68.20	-17.84	peak

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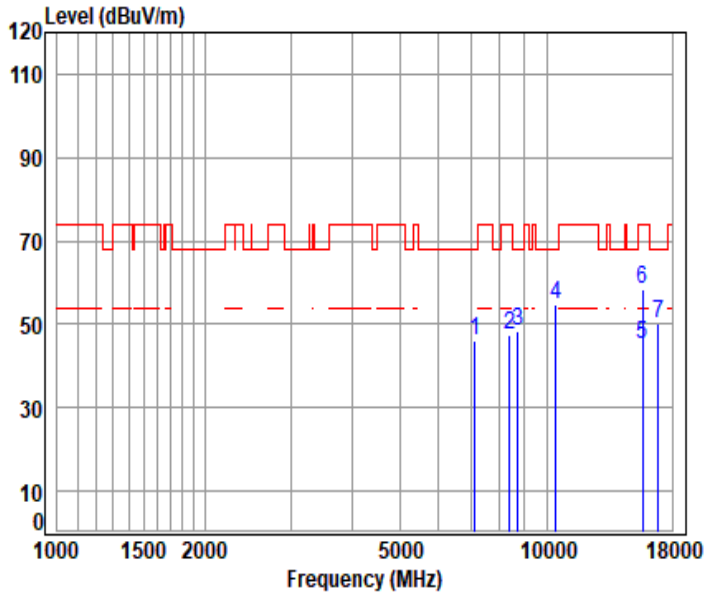
11ax_20M_TX_CH_44_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5220 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	54.16	45.89	68.20	-22.31	peak
2	8385.002	11.65	38.63	55.55	52.57	47.30	74.00	-26.70	peak
3	8715.911	12.12	38.57	55.26	52.78	48.21	68.20	-19.99	peak
4	pk10440.000	13.63	39.04	53.84	55.76	54.59	68.20	-13.61	peak
5	pp15660.000	17.23	38.56	54.10	43.45	45.14	54.00	-8.86	Average
6	15660.000	17.23	38.56	54.10	56.91	58.60	74.00	-15.40	peak
7	16846.870	17.80	39.60	54.25	47.07	50.22	68.20	-17.98	peak

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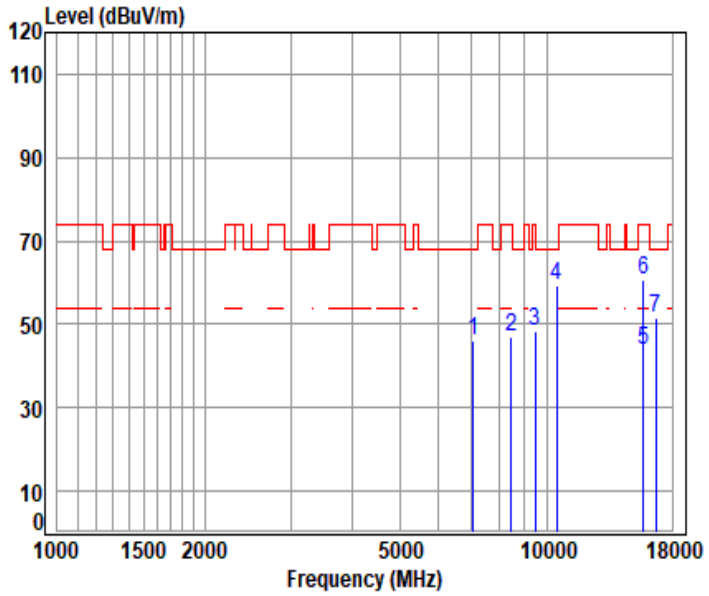
11ax_20M_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5240 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7080.624	11.87	36.36	56.64	54.45	46.04	68.20	-22.16	peak
2	8445.000	11.94	38.42	55.50	52.22	47.08	74.00	-26.92	peak
3	9446.244	12.42	38.80	54.60	51.92	48.54	74.00	-25.46	peak
4	pp10480.000	13.64	39.08	53.81	60.42	59.33	68.20	-8.87	peak
5	av15720.000	17.22	38.58	54.08	42.16	43.88	54.00	-10.12	Average
6	15720.000	17.22	38.58	54.08	59.11	60.83	74.00	-13.17	peak
7	16693.140	17.59	39.39	54.21	48.61	51.38	68.20	-16.82	peak

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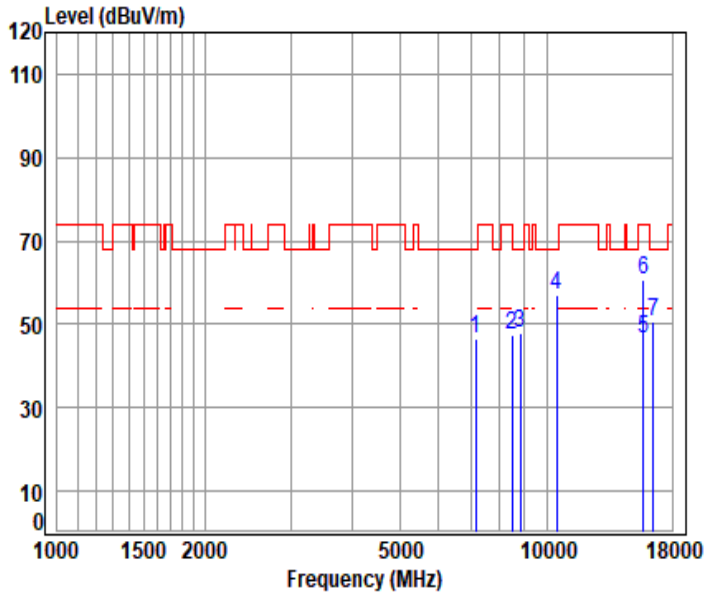
11ax_20M_TX_CH_48_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5240 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7145.831	11.77	36.49	56.58	55.02	46.70	68.20	-21.50	peak
2	8488.119	12.23	38.32	55.46	52.30	47.39	74.00	-26.61	peak
3	8823.098	12.24	38.50	55.16	52.48	48.06	68.20	-20.14	peak
4	pk10480.000	13.64	39.08	53.81	58.19	57.10	68.20	-11.10	peak
5	pp15720.000	17.22	38.58	54.08	44.68	46.40	54.00	-7.60	Average
6	15720.000	17.22	38.58	54.08	59.10	60.82	74.00	-13.18	peak
7	16456.780	17.49	38.86	54.14	48.55	50.76	68.20	-17.44	peak

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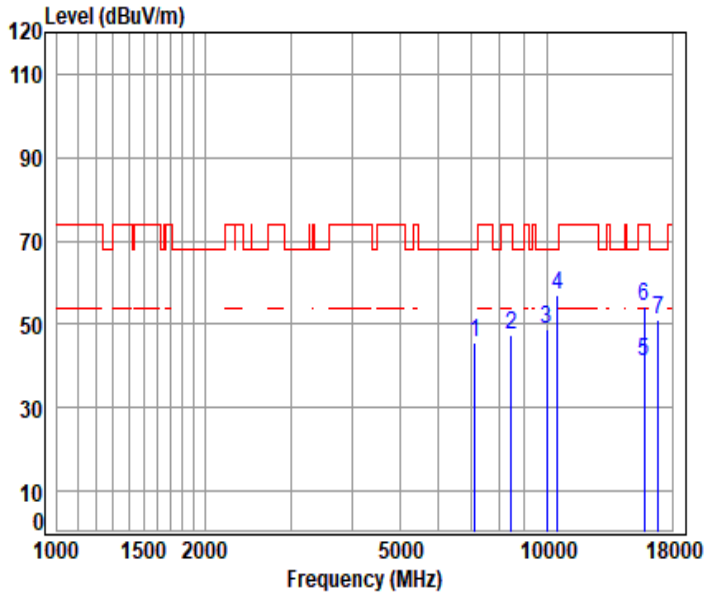
11a_TX_CH_52_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5260 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.96	45.69	68.20	-22.51	peak
2	8445.000	11.94	38.42	55.50	52.43	47.29	74.00	-26.71	peak
3	10000.720	13.01	38.90	54.10	51.18	48.99	68.20	-19.21	peak
4	pp10520.000	13.63	39.14	53.79	57.89	56.87	68.20	-11.33	peak
5	av15780.000	17.08	38.52	54.07	39.64	41.17	54.00	-12.83	Average
6	15780.000	17.08	38.52	54.07	52.77	54.30	74.00	-19.70	peak
7	16846.870	17.80	39.60	54.25	47.82	50.97	68.20	-17.23	peak

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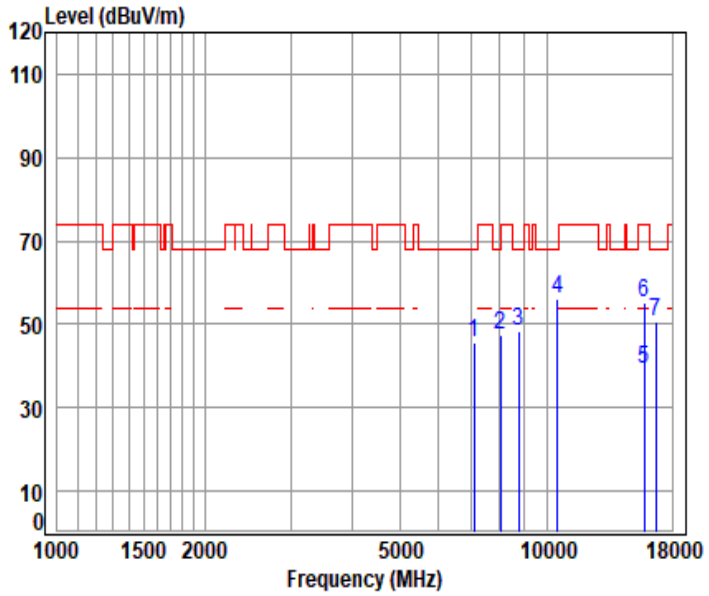
11a_TX_CH_52_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5260 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.91	45.67	68.20	-22.53	peak
2	8025.677	11.53	37.80	55.88	53.97	47.42	74.00	-26.58	peak
3	8742.585	12.16	38.51	55.23	53.07	48.51	68.20	-19.69	peak
4	pp10520.000	13.63	39.14	53.79	57.32	56.30	68.20	-11.90	peak
5	av15780.000	17.08	38.52	54.07	37.85	39.38	54.00	-14.62	Average
6	15780.000	17.08	38.52	54.07	53.82	55.35	74.00	-18.65	peak
7	16710.150	17.58	39.42	54.21	47.69	50.48	68.20	-17.72	peak

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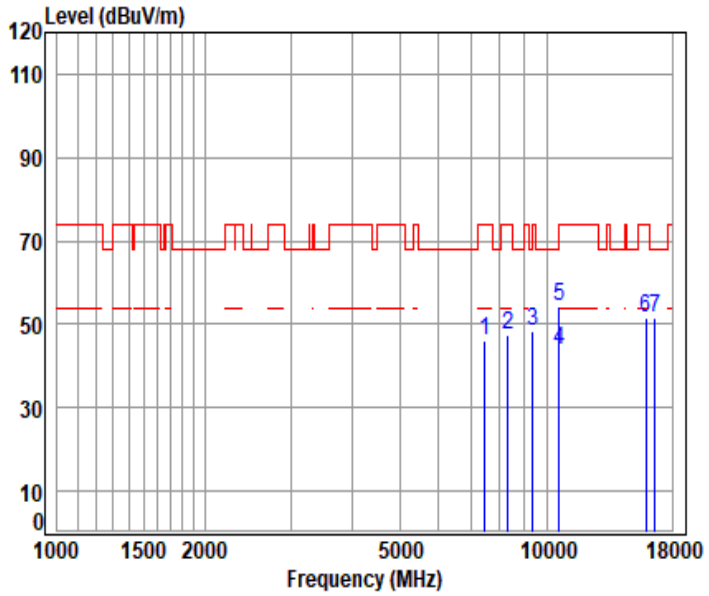
11a_TX_CH_60_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5300 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7458.163	11.34	36.80	56.33	54.35	46.16	74.00	-27.84	peak
2	8333.913	11.72	38.44	55.60	52.70	47.26	74.00	-26.74	peak
3	9350.516	12.24	38.80	54.68	52.09	48.45	74.00	-25.55	peak
4	pp10600.000	13.59	39.30	53.74	44.58	43.73	54.00	-10.27	Average
5	pk10600.000	13.59	39.30	53.74	55.04	54.19	68.20	-14.01	peak
6	15900.000	17.28	38.70	54.03	49.59	51.54	74.00	-22.46	peak
7	16591.430	17.66	39.17	54.18	48.69	51.34	68.20	-16.86	peak

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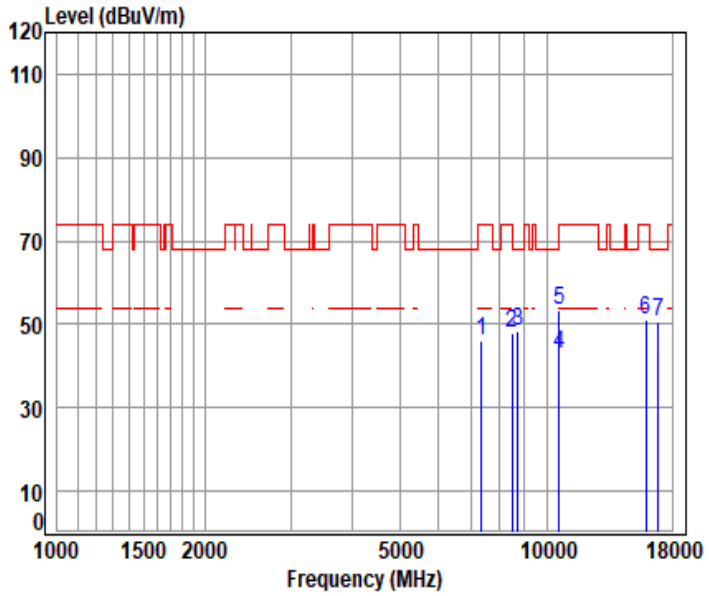
11a_TX_CH_60_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5300 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	54.07	45.94	74.00	-28.06	peak
2	8479.478	12.17	38.34	55.47	52.65	47.69	74.00	-26.31	peak
3	8733.685	12.14	38.53	55.24	52.72	48.15	68.20	-20.05	peak
4	pp10600.000	13.59	39.30	53.74	43.91	43.06	54.00	-10.94	Average
5	pk10600.000	13.59	39.30	53.74	54.08	53.23	68.20	-14.97	peak
6	15900.000	17.28	38.70	54.03	49.32	51.27	74.00	-22.73	peak
7	16864.040	17.92	39.60	54.26	47.53	50.79	68.20	-17.41	peak

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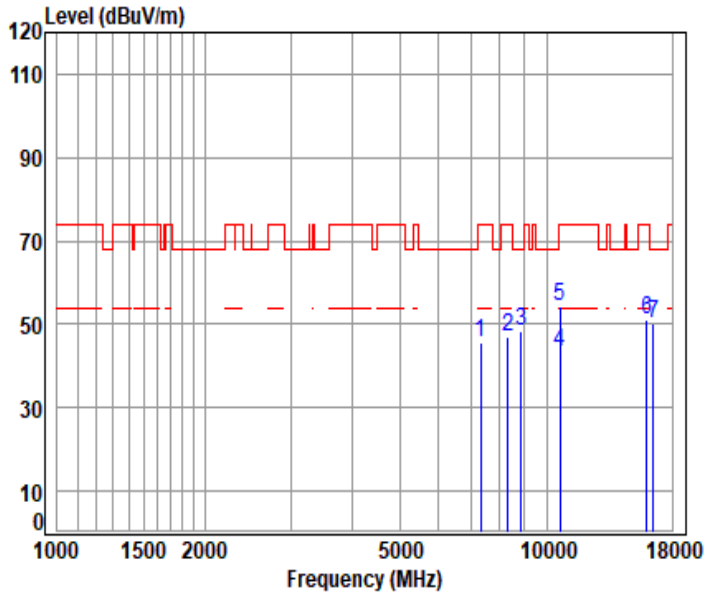
11a_TX_CH_64_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	53.96	45.79	74.00	-28.21	peak
2	8333.913	11.72	38.44	55.60	52.53	47.09	74.00	-26.91	peak
3	8850.100	12.23	38.50	55.13	52.97	48.57	68.20	-19.63	peak
4	pp10640.000	13.77	39.34	53.72	44.00	43.39	54.00	-10.61	Average
5	10640.000	13.77	39.34	53.72	54.78	54.17	74.00	-19.83	peak
6	15960.000	17.20	38.64	54.01	49.33	51.16	74.00	-22.84	peak
7	pk16490.340	17.68	38.89	54.15	47.98	50.40	68.20	-17.80	peak

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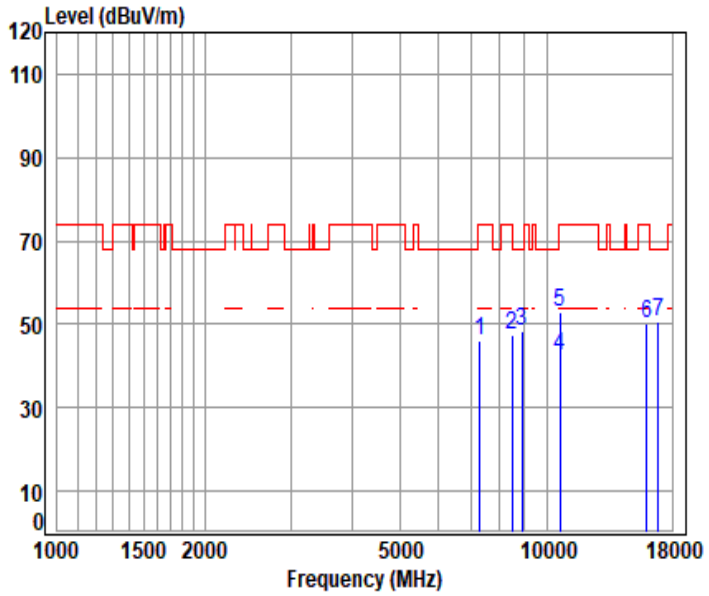
11a_TX_CH_64_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	54.36	46.07	74.00	-27.93	peak
2	8496.769	12.29	38.31	55.45	52.28	47.43	74.00	-26.57	peak
3	8904.353	12.22	38.59	55.09	52.84	48.56	68.20	-19.64	peak
4	pp10640.000	13.77	39.34	53.72	42.97	42.36	54.00	-11.64	Average
5	10640.000	13.77	39.34	53.72	53.56	52.95	74.00	-21.05	peak
6	15960.000	17.20	38.64	54.01	48.28	50.11	74.00	-23.89	peak
7	pk16881.220	18.04	39.60	54.26	47.39	50.77	68.20	-17.43	peak

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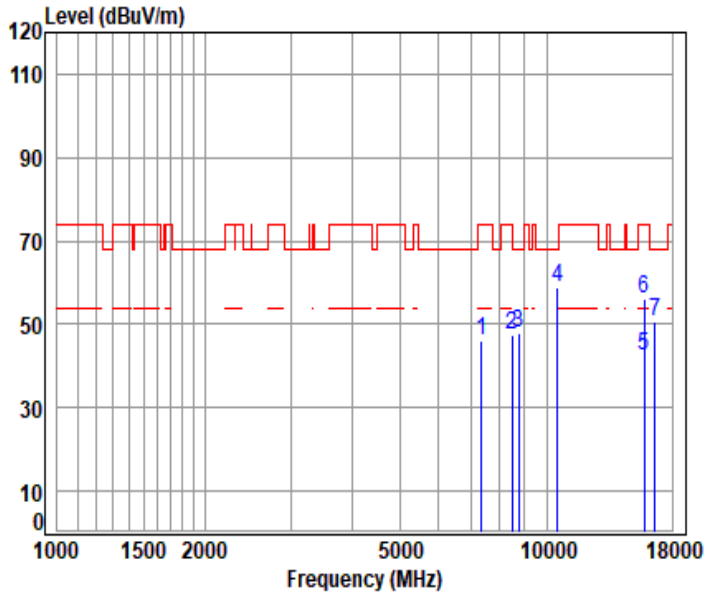
11ax_20M_TX_CH_52_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5260 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	54.11	45.97	74.00	-28.03	peak
2	8488.119	12.23	38.32	55.46	52.57	47.66	74.00	-26.34	peak
3	8751.494	12.17	38.50	55.22	52.57	48.02	68.20	-20.18	peak
4	pp10520.000	13.63	39.14	53.79	59.98	58.96	68.20	-9.24	peak
5	av15780.000	17.08	38.52	54.07	40.69	42.22	54.00	-11.78	Average
6	15780.000	17.08	38.52	54.07	54.66	56.19	74.00	-17.81	peak
7	16591.430	17.66	39.17	54.18	48.14	50.79	68.20	-17.41	peak

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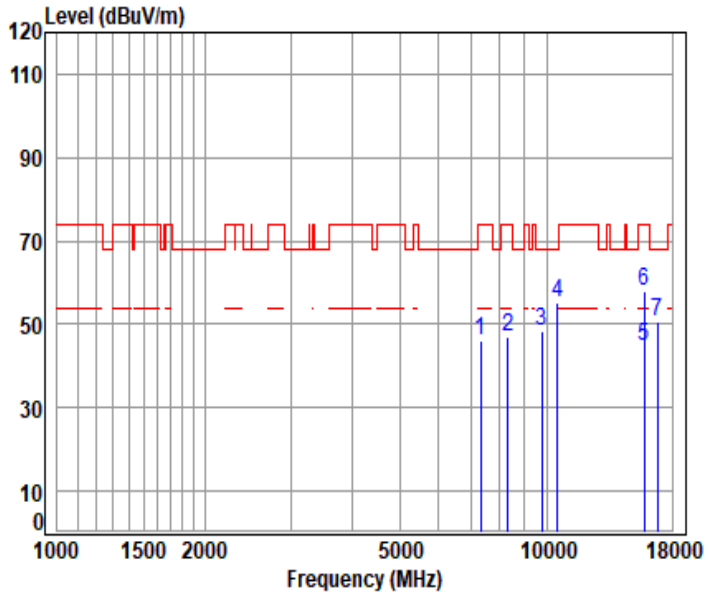
11ax_20M_TX_CH_52_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5260 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	54.51	46.30	74.00	-27.70	peak
2	8333.913	11.72	38.44	55.60	52.39	46.95	74.00	-27.05	peak
3	9769.155	12.97	38.60	54.31	51.02	48.28	68.20	-19.92	peak
4	pk10520.000	13.63	39.14	53.79	56.33	55.31	68.20	-12.89	peak
5	pp15780.000	17.08	38.52	54.07	43.18	44.71	54.00	-9.29	Average
6	15780.000	17.08	38.52	54.07	56.31	57.84	74.00	-16.16	peak
7	16829.720	17.67	39.60	54.25	47.80	50.82	68.20	-17.38	peak

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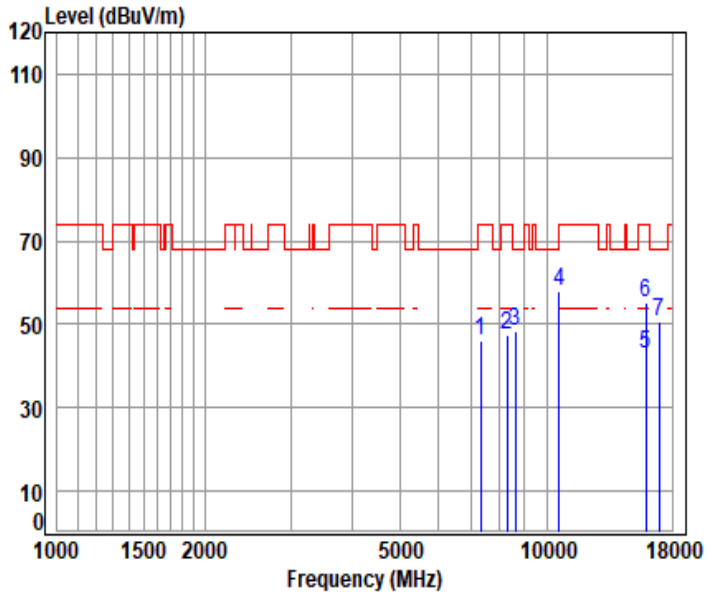
11ax_20M_TX_CH_60_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5300 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	54.08	45.91	74.00	-28.09	peak
2	8283.137	11.73	37.87	55.65	53.48	47.43	74.00	-26.57	peak
3	8627.584	12.00	38.44	55.34	53.17	48.27	68.20	-19.93	peak
4	pp10600.000	13.59	39.30	53.74	58.87	58.02	68.20	-10.18	peak
5	av15900.000	17.28	38.70	54.03	41.11	43.06	54.00	-10.94	Average
6	15900.000	17.28	38.70	54.03	53.20	55.15	74.00	-18.85	peak
7	16967.410	18.11	39.67	54.29	47.33	50.82	68.20	-17.38	peak

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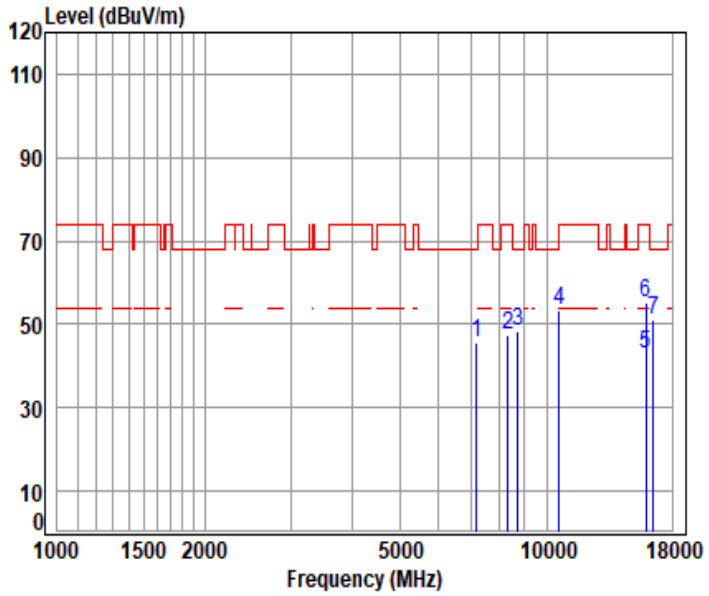
11ax_20M_TX_CH_60_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5300 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7189.636	11.57	36.58	56.55	54.04	45.64	68.20	-22.56	peak
2	8333.913	11.72	38.44	55.60	52.69	47.25	74.00	-26.75	peak
3	8724.793	12.13	38.55	55.25	52.75	48.18	68.20	-20.02	peak
4	pk10600.000	13.59	39.30	53.74	54.12	53.27	68.20	-14.93	peak
5	pp15900.000	17.28	38.70	54.03	41.10	43.05	54.00	-10.95	Average
6	15900.000	17.28	38.70	54.03	53.20	55.15	74.00	-18.85	peak
7	16456.780	17.49	38.86	54.14	48.71	50.92	68.20	-17.28	peak

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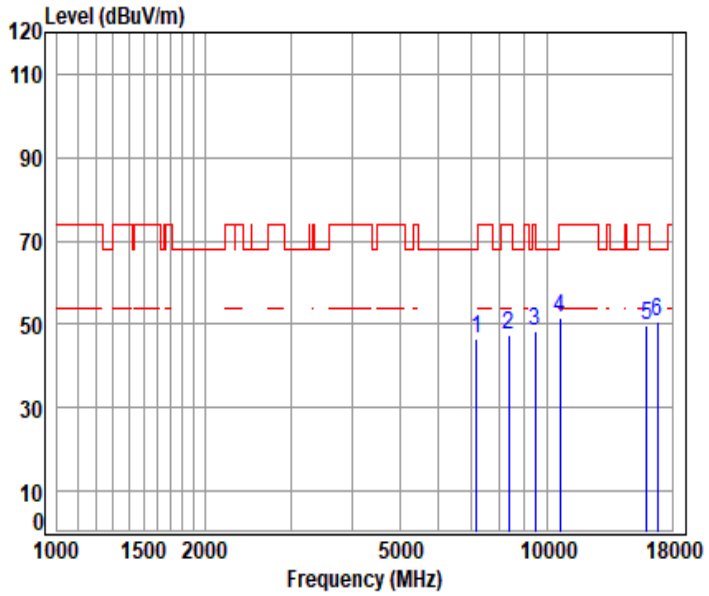

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7167.700	11.67	36.54	56.57	54.94	46.58	68.20	-21.62	peak
2	8342.406	11.70	38.58	55.59	52.67	47.36	74.00	-26.64	peak
3	9446.244	12.42	38.80	54.60	51.72	48.34	74.00	-25.66	peak
4	10640.000	13.77	39.34	53.72	51.99	51.38	74.00	-22.62	peak
5	15960.000	17.20	38.64	54.01	48.00	49.83	74.00	-24.17	peak
6	pp16829.720	17.67	39.60	54.25	47.83	50.85	68.20	-17.35	peak

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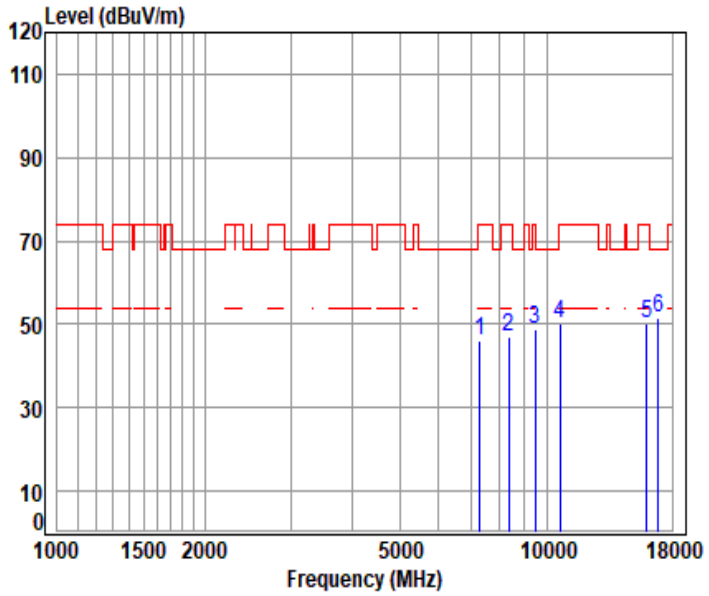
11ax_20M_TX_CH_64_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7300.327	11.51	36.70	56.46	54.20	45.95	74.00	-28.05	peak
2	8350.908	11.69	38.70	55.58	52.30	47.11	74.00	-26.89	peak
3	9455.871	12.45	38.81	54.59	52.08	48.75	74.00	-25.25	peak
4	10640.000	13.77	39.34	53.72	50.77	50.16	74.00	-23.84	peak
5	15960.000	17.20	38.64	54.01	48.15	49.98	74.00	-24.02	peak
6	pp16881.220	18.04	39.60	54.26	48.25	51.63	68.20	-16.57	peak

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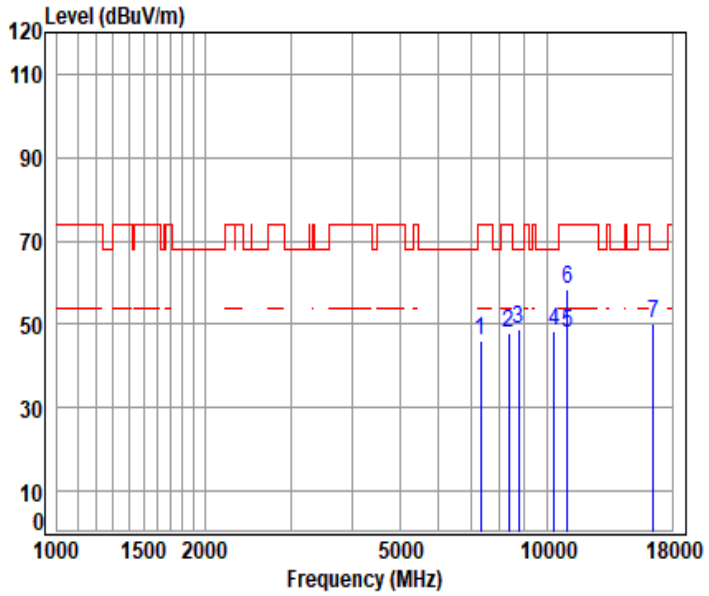
11a_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	54.29	46.08	74.00	-27.92	peak
2	8350.908	11.69	38.70	55.58	52.99	47.80	74.00	-26.20	peak
3	8742.585	12.16	38.51	55.23	53.24	48.68	68.20	-19.52	peak
4	10353.130	13.60	39.00	53.89	49.80	48.51	68.20	-19.69	peak
5	pp11000.000	14.17	39.40	53.50	47.90	47.97	54.00	-6.03	Average
6	pk11000.000	14.17	39.40	53.50	58.50	58.57	74.00	-15.43	peak
7	16500.000	17.74	38.90	54.15	47.71	50.20	68.20	-18.00	peak

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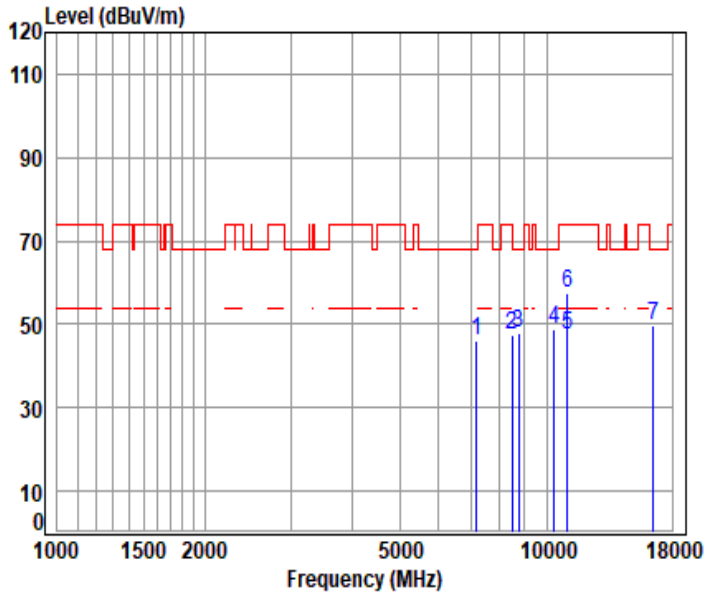
11a_TX_CH_100_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7167.700	11.67	36.54	56.57	54.32	45.96	68.20	-22.24	peak
2	8479.478	12.17	38.34	55.47	52.22	47.26	74.00	-26.74	peak
3	8751.494	12.17	38.50	55.22	52.42	47.87	68.20	-20.33	peak
4	10363.680	13.61	39.00	53.88	50.11	48.84	68.20	-19.36	peak
5	pp11000.000	14.17	39.40	53.50	47.60	47.67	54.00	-6.33	Average
6	pk11000.000	14.17	39.40	53.50	57.33	57.40	74.00	-16.60	peak
7	16500.000	17.74	38.90	54.15	47.38	49.87	68.20	-18.33	peak

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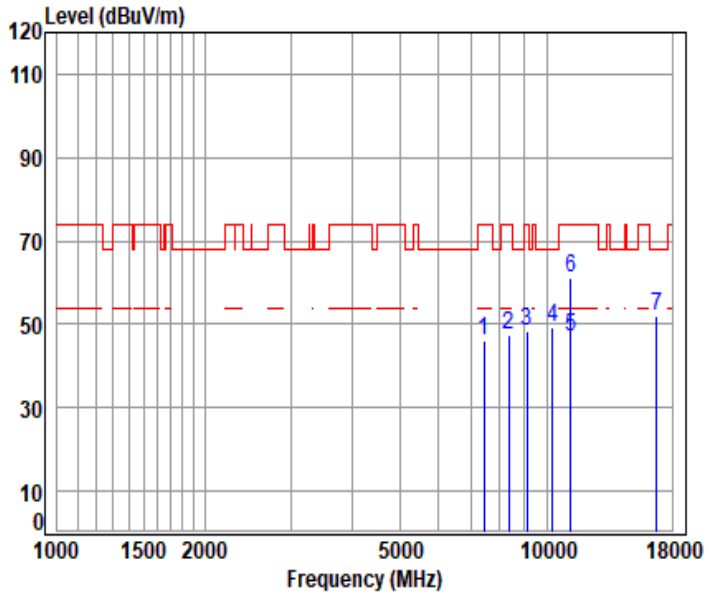
11a_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5580 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7427.838	11.42	36.76	56.36	54.48	46.30	74.00	-27.70	peak
2	8350.908	11.69	38.70	55.58	52.63	47.44	74.00	-26.56	peak
3	9096.867	12.12	38.60	54.91	52.40	48.21	74.00	-25.79	peak
4	10269.110	13.43	39.03	53.94	50.70	49.22	68.20	-18.98	peak
5	pp11160.000	14.72	39.56	53.55	46.41	47.14	54.00	-6.86	Average
6	pk11160.000	14.72	39.56	53.55	60.61	61.34	74.00	-12.66	peak
7	16740.000	17.54	39.48	54.22	49.38	52.18	68.20	-16.02	peak

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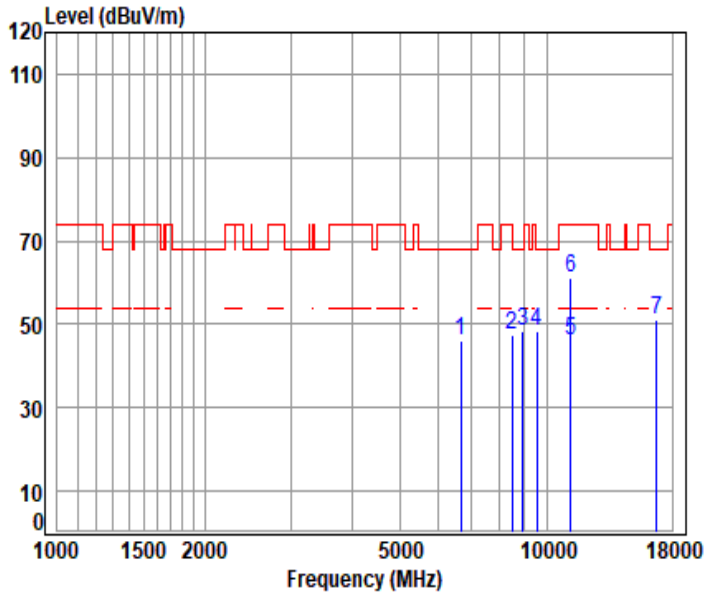
11a_TX_CH_116_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5580 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6667.643	11.47	35.46	56.77	56.09	46.25	68.20	-21.95	peak
2	8496.769	12.29	38.31	55.45	52.15	47.30	74.00	-26.70	peak
3	8913.427	12.21	38.57	55.08	52.76	48.46	68.20	-19.74	peak
4	9533.237	12.52	38.83	54.52	51.61	48.44	68.20	-19.76	peak
5	pp11160.000	14.72	39.56	53.55	45.47	46.20	54.00	-7.80	Average
6	pk11160.000	14.72	39.56	53.55	60.35	61.08	74.00	-12.92	peak
7	16740.000	17.54	39.48	54.22	48.24	51.04	68.20	-17.16	peak

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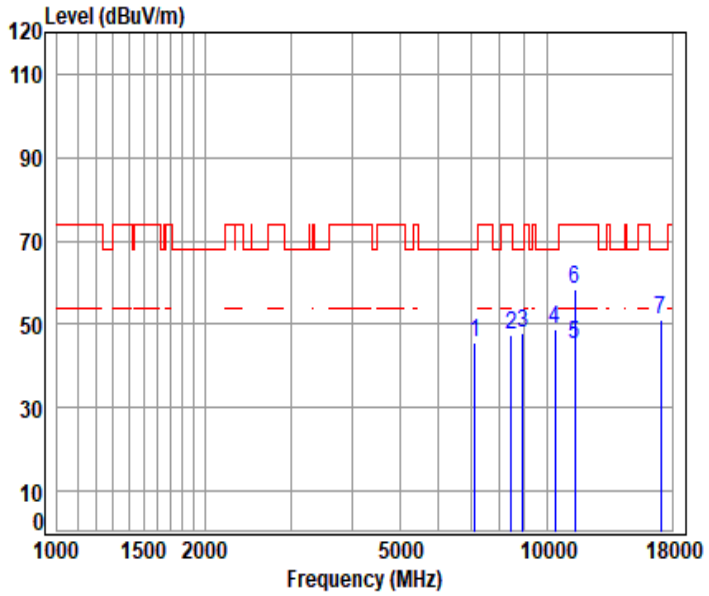
11a_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5700 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.76	45.49	68.20	-22.71	peak
2	8445.000	11.94	38.42	55.50	52.58	47.44	74.00	-26.56	peak
3	8913.427	12.21	38.57	55.08	52.25	47.95	68.20	-20.25	peak
4	10384.810	13.61	39.00	53.87	50.27	49.01	68.20	-19.19	peak
5	pp11400.000	14.21	39.70	53.62	44.95	45.24	54.00	-8.76	Average
6	pk11400.000	14.21	39.70	53.62	58.26	58.55	74.00	-15.45	peak
7	17100.000	18.47	39.80	54.32	47.23	51.18	68.20	-17.02	peak

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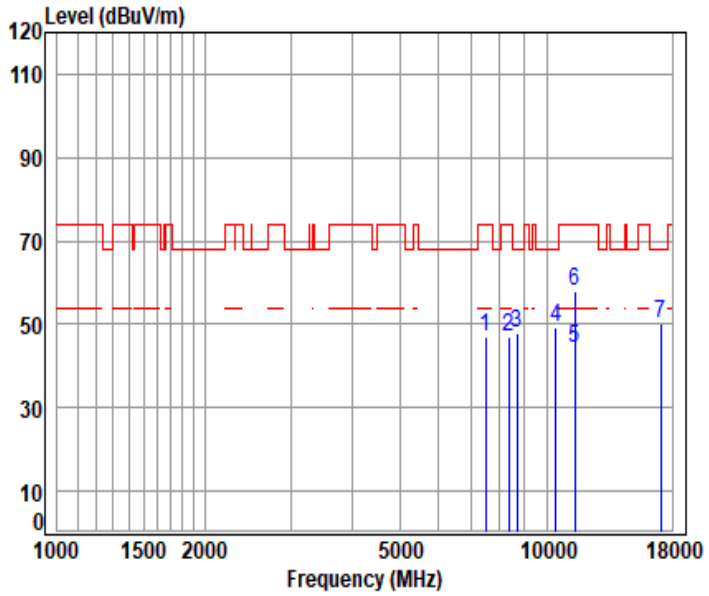

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5700 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7496.243	11.24	36.80	56.30	55.38	47.12	74.00	-26.88	peak
2	8342.406	11.70	38.58	55.59	52.53	47.22	74.00	-26.78	peak
3	8689.318	12.08	38.56	55.28	52.70	48.06	68.20	-20.14	peak
4	10416.590	13.62	39.02	53.85	50.40	49.19	68.20	-19.01	peak
5	pp11400.000	14.21	39.70	53.62	43.89	44.18	54.00	-9.82	Average
6	pk11400.000	14.21	39.70	53.62	57.49	57.78	74.00	-16.22	peak
7	17100.000	18.47	39.80	54.32	46.27	50.22	68.20	-17.98	peak

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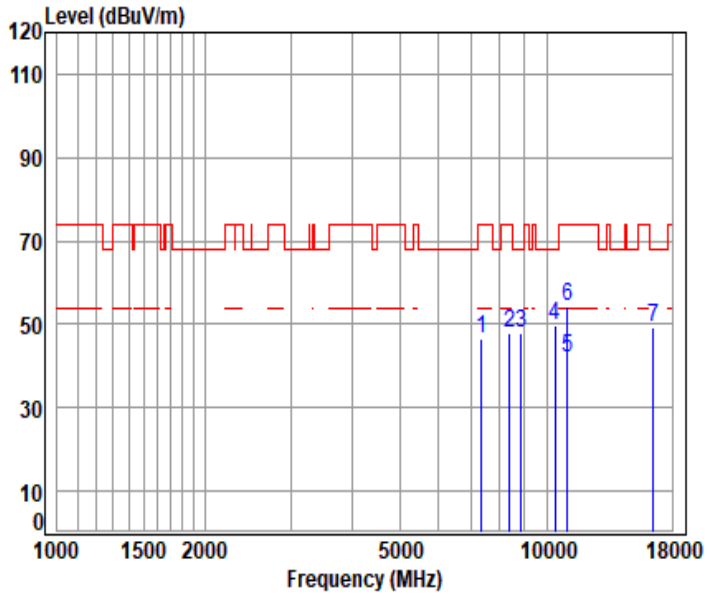
11ax_20M_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	54.46	46.33	74.00	-27.67	peak
2	8385.002	11.65	38.63	55.55	53.16	47.89	74.00	-26.11	peak
3	8850.100	12.23	38.50	55.13	52.49	48.09	68.20	-20.11	peak
4	pk10395.390	13.62	39.00	53.86	50.83	49.59	68.20	-18.61	peak
5	pp11000.000	14.17	39.40	53.50	42.01	42.08	54.00	-11.92	Average
6	11000.000	14.17	39.40	53.50	54.21	54.28	74.00	-19.72	peak
7	16500.000	17.74	38.90	54.15	46.97	49.46	68.20	-18.74	peak

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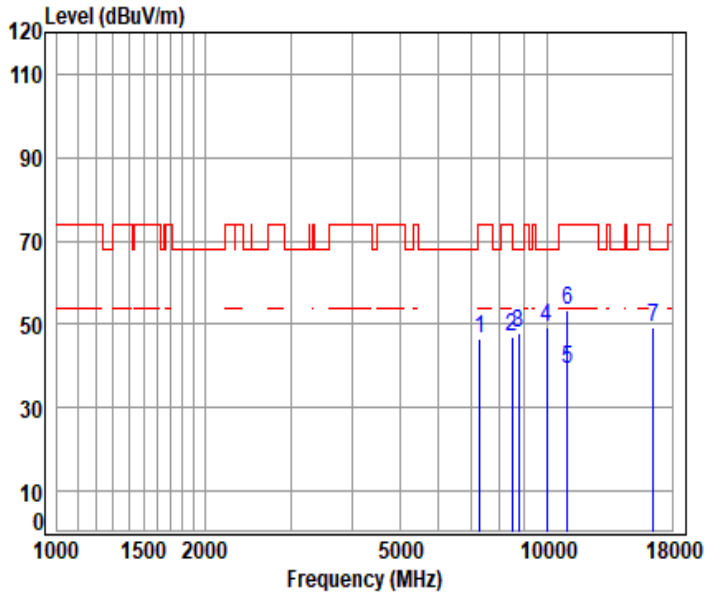
11ax_20M_TX_CH_100_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	54.78	46.51	74.00	-27.49	peak
2	8470.845	12.11	38.36	55.48	52.06	47.05	74.00	-26.95	peak
3	8751.494	12.17	38.50	55.22	52.61	48.06	68.20	-20.14	peak
4	9970.208	12.95	38.90	54.13	51.51	49.23	68.20	-18.97	peak
5	pp11000.000	14.17	39.40	53.50	39.21	39.28	54.00	-14.72	Average
6	11000.000	14.17	39.40	53.50	53.42	53.49	74.00	-20.51	peak
7	pk16500.000	17.74	38.90	54.15	46.84	49.33	68.20	-18.87	peak

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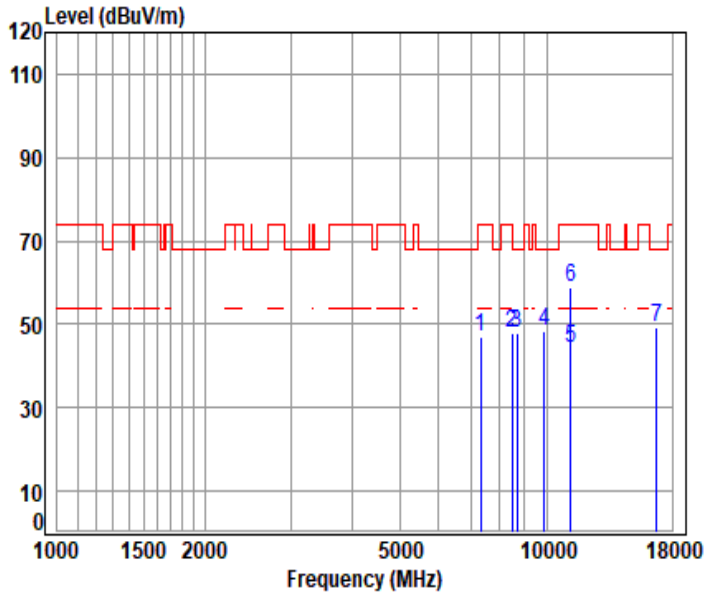
11ax_20M_100_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5580 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7322.668	11.51	36.75	56.44	55.20	47.02	74.00	-26.98	peak
2	8479.478	12.17	38.34	55.47	52.69	47.73	74.00	-26.27	peak
3	8689.318	12.08	38.56	55.28	52.69	48.05	68.20	-20.15	peak
4	9869.170	12.89	38.22	54.22	51.40	48.29	68.20	-19.91	peak
5	pp11160.000	14.72	39.56	53.55	43.30	44.03	54.00	-9.97	Average
6	pk11160.000	14.72	39.56	53.55	57.94	58.67	74.00	-15.33	peak
7	16740.000	17.54	39.48	54.22	46.70	49.50	68.20	-18.70	peak

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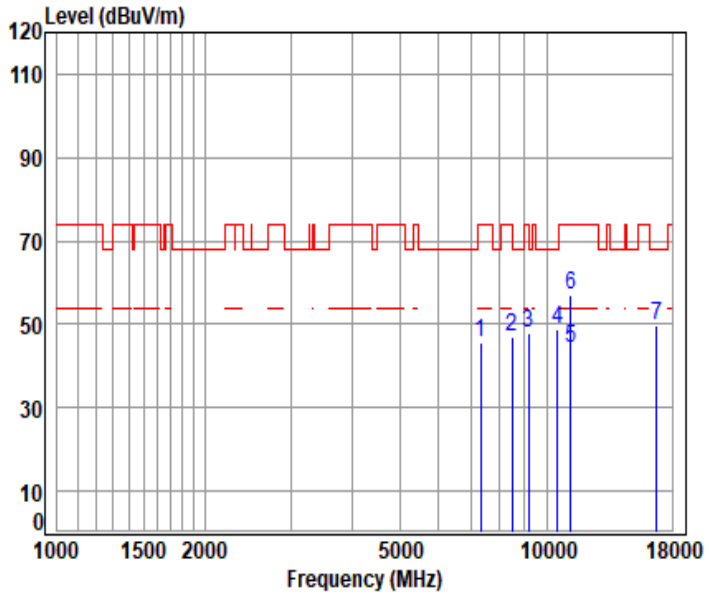
11ax_20M_100_TX_CH_116_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5580 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7322.668	11.51	36.75	56.44	53.96	45.78	74.00	-28.22	peak
2	8479.478	12.17	38.34	55.47	51.95	46.99	74.00	-27.01	peak
3	9180.644	12.28	38.09	54.84	52.58	48.11	74.00	-25.89	peak
4	10491.130	13.64	39.09	53.81	49.90	48.82	68.20	-19.38	peak
5	pp11160.000	14.72	39.56	53.55	43.50	44.23	54.00	-9.77	Average
6	pk11160.000	14.72	39.56	53.55	56.10	56.83	74.00	-17.17	peak
7	16740.000	17.54	39.48	54.22	46.85	49.65	68.20	-18.55	peak

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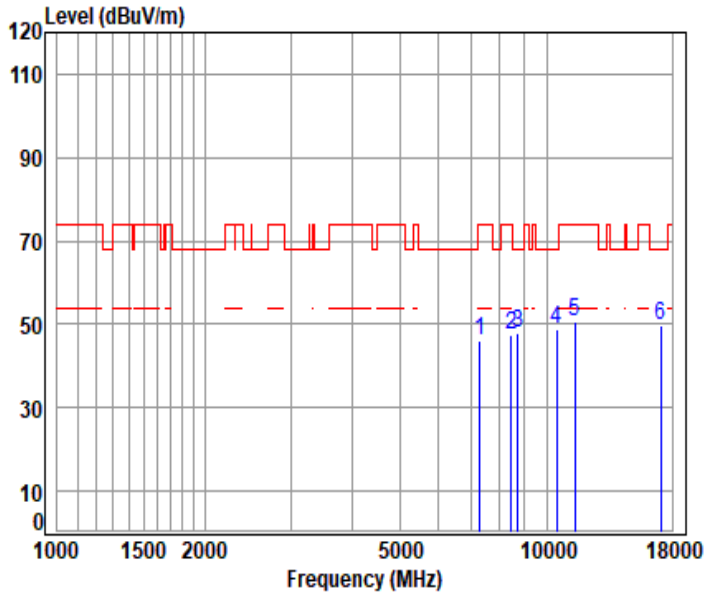
11ax_20M_100_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5700 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7300.327	11.51	36.70	56.46	54.37	46.12	74.00	-27.88	peak
2	8453.606	11.99	38.39	55.49	52.72	47.61	74.00	-26.39	peak
3	8733.685	12.14	38.53	55.24	52.56	47.99	68.20	-20.21	peak
4	10459.120	13.63	39.06	53.82	49.87	48.74	68.20	-19.46	peak
5	11400.000	14.21	39.70	53.62	50.46	50.75	74.00	-23.25	peak
6	pp17100.000	18.47	39.80	54.32	45.99	49.94	68.20	-18.26	peak

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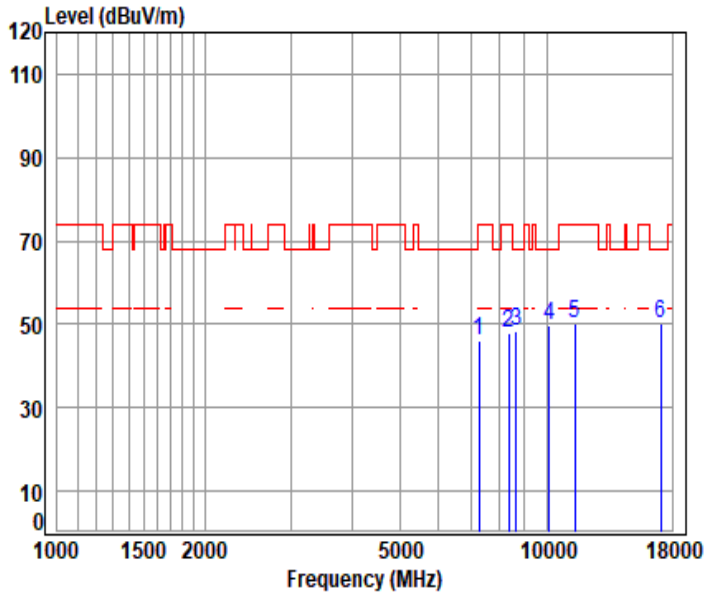
11ax_20M_100_TX_CH_140_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5700 TX RSE
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	54.47	46.14	74.00	-27.86	peak
2	8367.938	11.67	38.66	55.57	53.32	48.08	74.00	-25.92	peak
3	8662.807	12.04	38.45	55.30	52.97	48.16	68.20	-20.04	peak
4	10092.820	13.25	39.09	54.04	51.35	49.65	68.20	-18.55	peak
5	11400.000	14.21	39.70	53.62	49.75	50.04	74.00	-23.96	peak
6	pp17100.000	18.47	39.80	54.32	46.45	50.40	68.20	-17.80	peak

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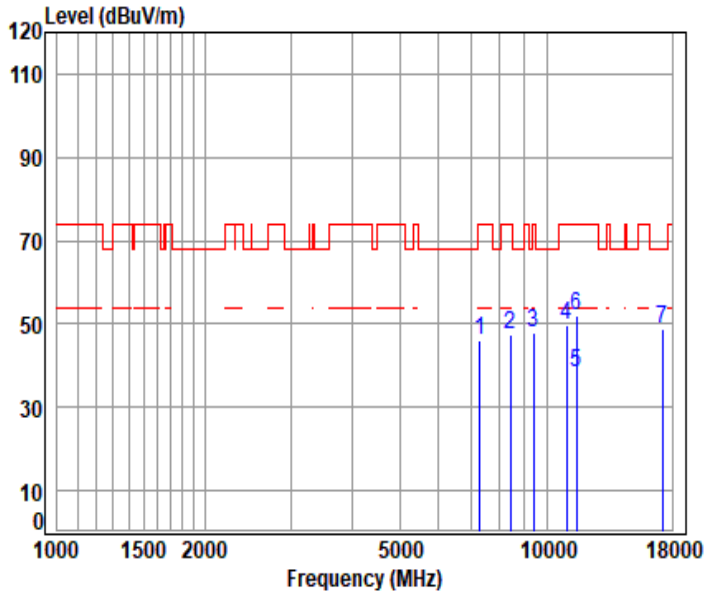
11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5745 TX RSE
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	54.30	46.03	74.00	-27.97	peak
2	8436.402	11.88	38.45	55.51	52.57	47.39	74.00	-26.61	peak
3	9379.132	12.27	38.80	54.66	51.66	48.07	74.00	-25.93	peak
4	10960.830	14.09	39.36	53.52	49.98	49.91	74.00	-24.09	peak
5	pp11490.000	14.97	39.61	53.65	37.47	38.40	54.00	-15.60	Average
6	11490.000	14.97	39.61	53.65	51.18	52.11	74.00	-21.89	peak
7	pk17235.000	17.83	40.01	54.35	45.26	48.75	68.20	-19.45	peak

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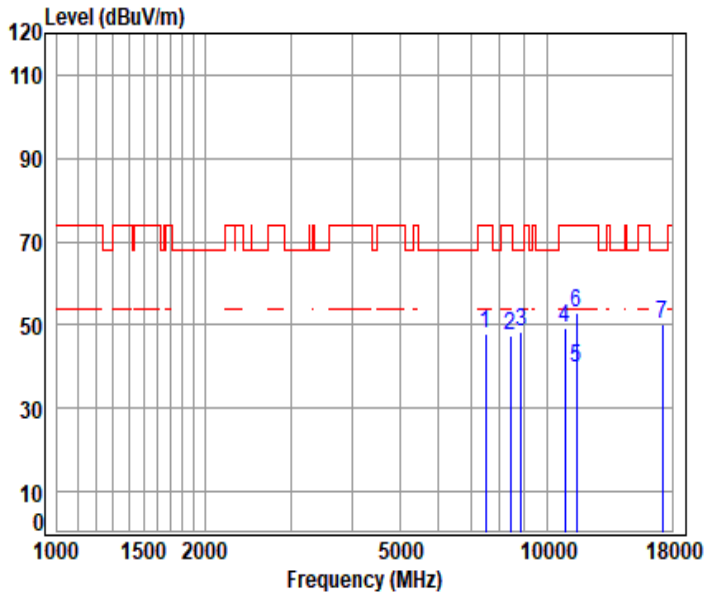
11a_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5745 TX RSE
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7488.611	11.26	36.80	56.31	56.25	48.00	74.00	-26.00	peak
2	8436.402	11.88	38.45	55.51	52.45	47.27	74.00	-26.73	peak
3	8859.119	12.23	38.52	55.13	52.92	48.54	68.20	-19.66	peak
4	10871.880	13.88	39.30	53.58	49.55	49.15	74.00	-24.85	peak
5	pp11490.000	14.97	39.61	53.65	38.58	39.51	54.00	-14.49	Average
6	11490.000	14.97	39.61	53.65	52.14	53.07	74.00	-20.93	peak
7	pk17235.000	17.83	40.01	54.35	46.67	50.16	68.20	-18.04	peak

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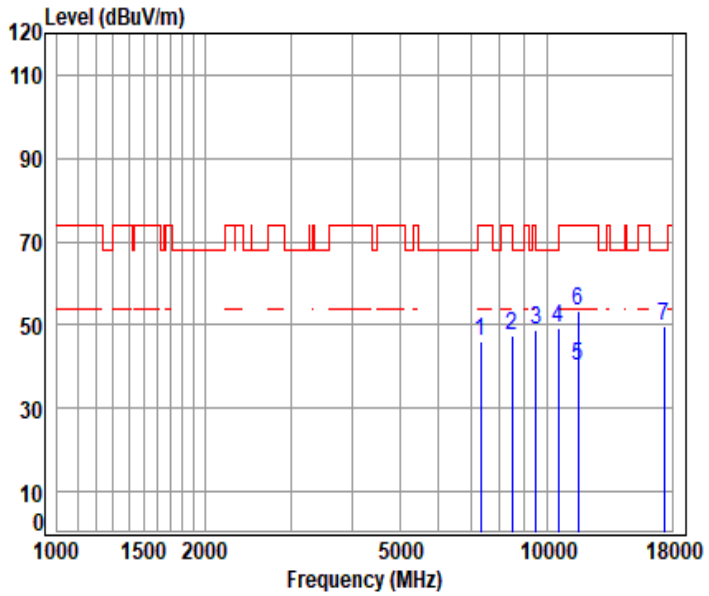
11a_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5785 TX RSE
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7322.668	11.51	36.75	56.44	54.05	45.87	74.00	-28.13	peak
2	8488.119	12.23	38.32	55.46	52.41	47.50	74.00	-26.50	peak
3	9484.810	12.52	38.87	54.56	52.12	48.95	74.00	-25.05	peak
4	10533.960	13.62	39.17	53.78	50.36	49.37	68.20	-18.83	peak
5	pp11570.000	14.78	39.60	53.67	39.58	40.29	54.00	-13.71	Average
6	11570.000	14.78	39.60	53.67	52.49	53.20	74.00	-20.80	peak
7	pk17355.000	18.00	40.31	54.37	45.77	49.71	68.20	-18.49	peak

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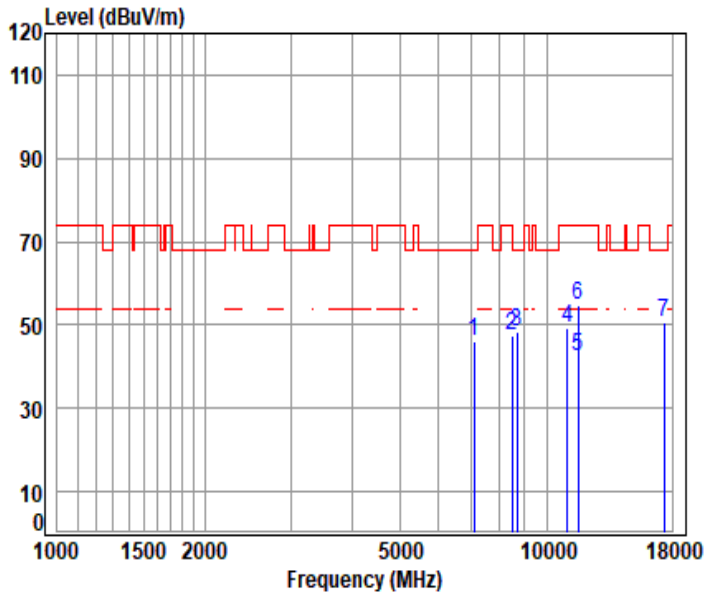
11a_TX_CH_157_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5785 TX RSE
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	54.43	46.19	68.20	-22.01	peak
2	8496.769	12.29	38.31	55.45	52.23	47.38	74.00	-26.62	peak
3	8671.635	12.05	38.49	55.30	53.11	48.35	68.20	-19.85	peak
4	11005.580	14.20	39.41	53.50	49.18	49.29	74.00	-24.71	peak
5	pp11570.000	14.78	39.60	53.67	41.83	42.54	54.00	-11.46	Average
6	11570.000	14.78	39.60	53.67	54.10	54.81	74.00	-19.19	peak
7	pk17355.000	18.00	40.31	54.37	46.67	50.61	68.20	-17.59	peak

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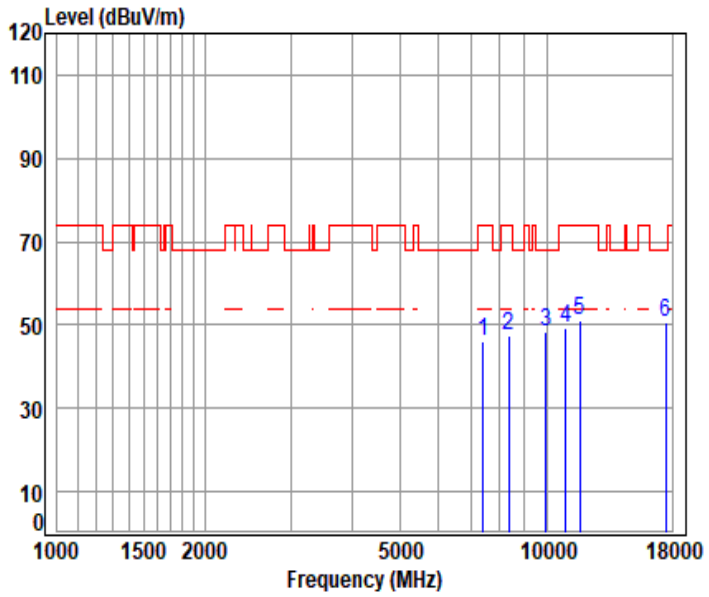
11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5825 TX RSE
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7397.636	11.50	36.70	56.38	54.16	45.98	74.00	-28.02	peak
2	8350.908	11.69	38.70	55.58	52.54	47.35	74.00	-26.65	peak
3	9939.788	12.88	38.90	54.15	50.69	48.32	68.20	-19.88	peak
4	10916.270	13.99	39.32	53.55	49.61	49.37	74.00	-24.63	peak
5	11650.000	14.69	39.55	53.69	50.46	51.01	74.00	-22.99	peak
6	pp17475.000	18.35	40.78	54.40	45.97	50.70	68.20	-17.50	peak

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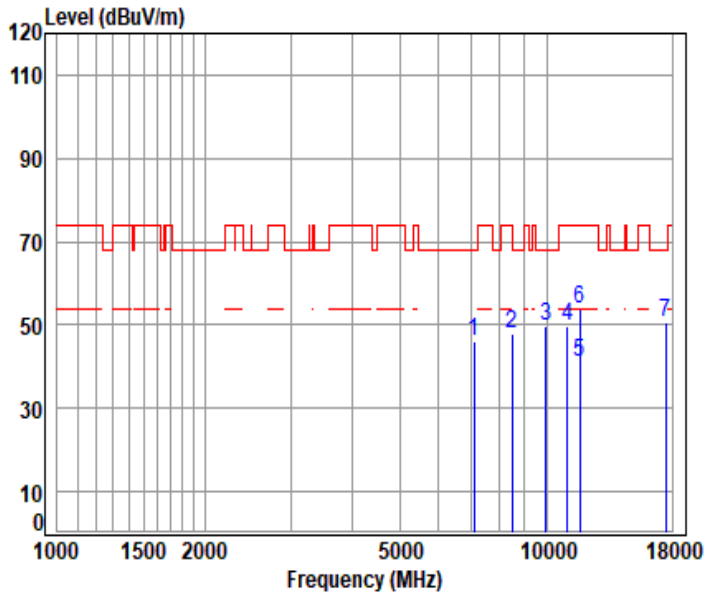
11a_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5825 TX RSE
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	54.25	46.01	68.20	-22.19	peak
2	8488.119	12.23	38.32	55.46	52.75	47.84	74.00	-26.16	peak
3	9960.058	12.93	38.90	54.14	51.88	49.57	68.20	-18.63	peak
4	11005.580	14.20	39.41	53.50	49.50	49.61	74.00	-24.39	peak
5	pp11650.000	14.69	39.55	53.69	40.36	40.91	54.00	-13.09	Average
6	11650.000	14.69	39.55	53.69	53.50	54.05	74.00	-19.95	peak
7	pk17475.000	18.35	40.78	54.40	45.80	50.53	68.20	-17.67	peak

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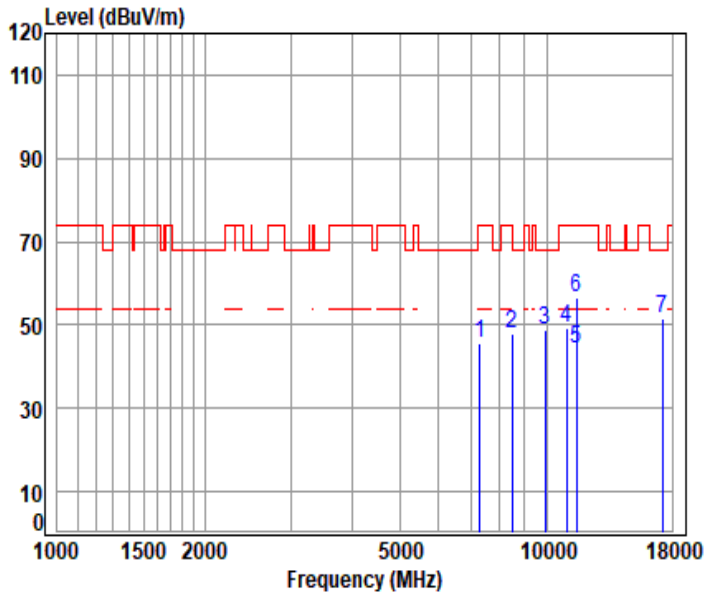
11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5745 TX RSE
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	53.90	45.61	74.00	-28.39	peak
2	8496.769	12.29	38.31	55.45	52.95	48.10	74.00	-25.90	peak
3	9929.669	12.86	38.90	54.16	51.33	48.93	68.20	-19.27	peak
4	10949.680	14.06	39.35	53.53	49.49	49.37	74.00	-24.63	peak
5	pp11490.000	14.97	39.61	53.65	43.49	44.42	54.00	-9.58	Average
6	11490.000	14.97	39.61	53.65	55.45	56.38	74.00	-17.62	peak
7	pk17235.000	17.83	40.01	54.35	47.96	51.45	68.20	-16.75	peak

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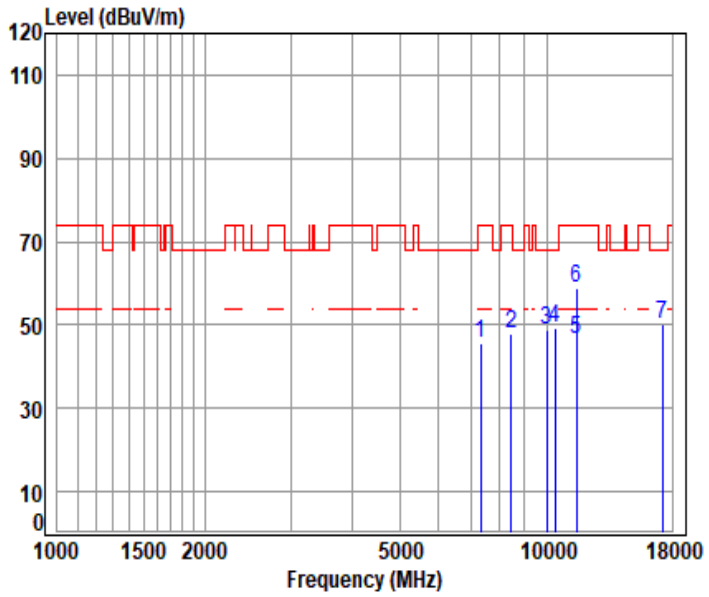
11ax_20M_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5745 TX RSE
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	53.83	45.66	74.00	-28.34	peak
2	8462.222	12.05	38.38	55.48	52.95	47.90	74.00	-26.10	peak
3	10000.720	13.01	38.90	54.10	50.91	48.72	68.20	-19.48	peak
4	10395.390	13.62	39.00	53.86	50.36	49.12	68.20	-19.08	peak
5	pp11490.000	14.97	39.61	53.65	45.50	46.43	54.00	-7.57	Average
6	pk11490.000	14.97	39.61	53.65	57.96	58.89	74.00	-15.11	peak
7	17235.000	17.83	40.01	54.35	46.80	50.29	68.20	-17.91	peak

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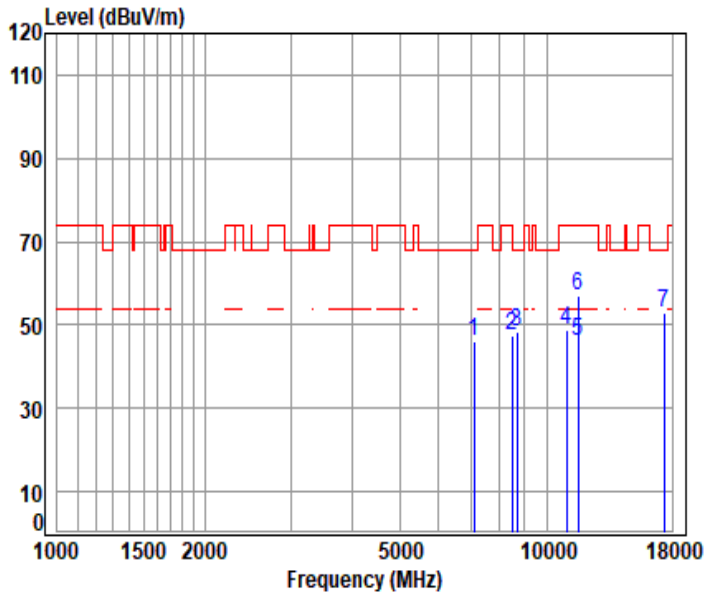

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5785 TX RSE
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	54.40	46.16	68.20	-22.04	peak
2	8479.478	12.17	38.34	55.47	52.55	47.59	74.00	-26.41	peak
3	8680.473	12.06	38.52	55.29	52.89	48.18	68.20	-20.02	peak
4	10972.000	14.11	39.37	53.52	49.07	49.03	74.00	-24.97	peak
5	pp11570.000	14.78	39.60	53.67	45.33	46.04	54.00	-7.96	Average
6	11570.000	14.78	39.60	53.67	56.46	57.17	74.00	-16.83	Peak
7	pk17355.000	18.00	40.31	54.37	48.79	52.73	68.20	-15.47	peak

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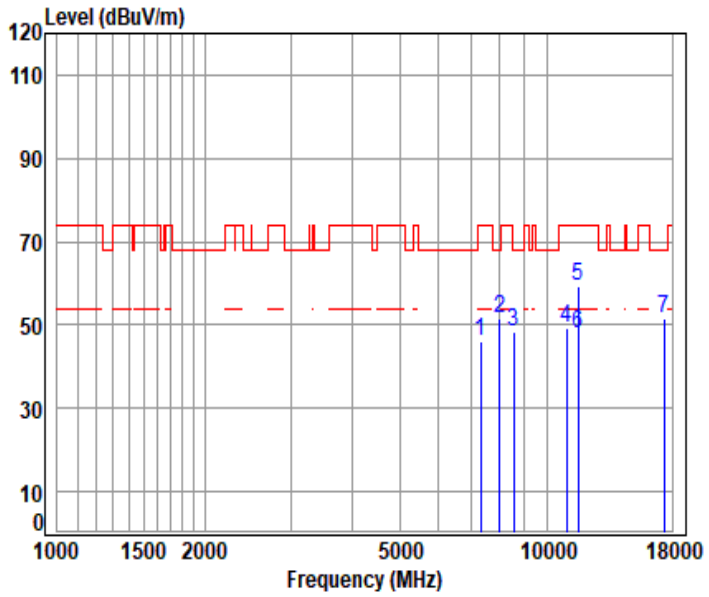

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5785 TX RSE
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	54.42	46.25	74.00	-27.75	peak
2	7993.045	11.56	37.79	55.91	57.90	51.34	68.20	-16.86	peak
3	8540.152	12.17	38.30	55.41	53.36	48.42	68.20	-19.78	peak
4	10983.190	14.13	39.38	53.51	49.13	49.13	74.00	-24.87	peak
5	11570.000	14.78	39.60	53.67	58.58	59.29	74.00	-14.71	peak
6	pp11570.000	14.78	39.60	53.67	47.19	47.90	54.00	-6.10	peak
7	17355.000	18.00	40.31	54.37	47.61	51.55	68.20	-16.65	peak

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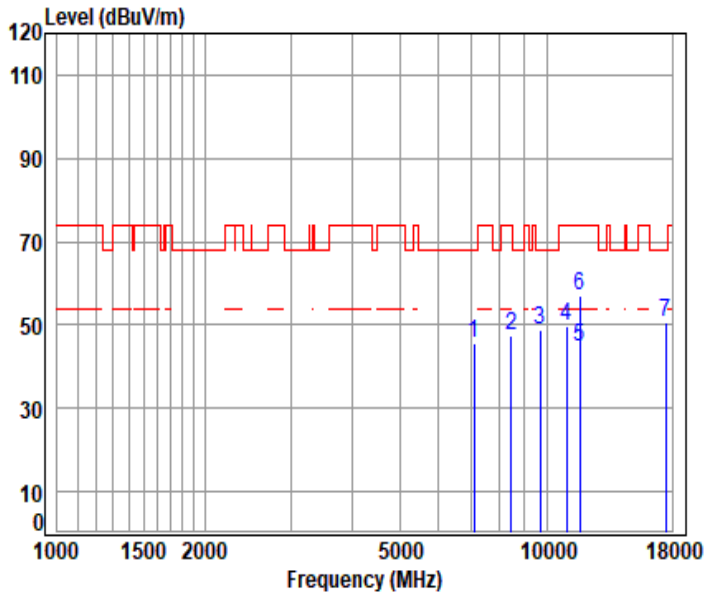

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5825 TX RSE
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	53.90	45.66	68.20	-22.54	peak
2	8445.000	11.94	38.42	55.50	52.45	47.31	74.00	-26.69	peak
3	9670.154	12.62	38.70	54.40	51.85	48.77	68.20	-19.43	peak
4	10972.000	14.11	39.37	53.52	49.71	49.67	74.00	-24.33	peak
5	pp11650.000	14.69	39.55	53.69	44.19	44.74	54.00	-9.26	Average
6	pk11650.000	14.69	39.55	53.69	56.51	57.06	74.00	-16.94	peak
7	17475.000	18.35	40.78	54.40	46.04	50.77	68.20	-17.43	peak

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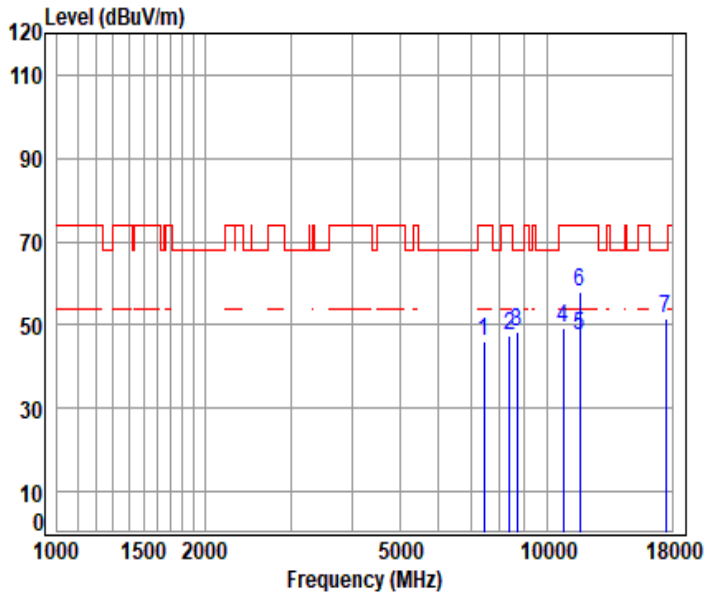

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5825 TX RSE
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7427.838	11.42	36.76	56.36	54.11	45.93	74.00	-28.07	peak
2	8393.547	11.64	38.61	55.55	52.92	47.62	74.00	-26.38	peak
3	8698.174	12.09	38.59	55.27	52.88	48.29	68.20	-19.91	peak
4	10816.650	13.73	39.30	53.61	49.81	49.23	74.00	-24.77	peak
5	pp11650.000	14.69	39.55	53.69	46.98	47.53	54.00	-6.47	Average
6	pk11650.000	14.69	39.55	53.69	57.20	57.75	74.00	-16.25	peak
7	17475.000	18.35	40.78	54.40	46.86	51.59	68.20	-16.61	peak

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7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: KDB 789033 D02 II G
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

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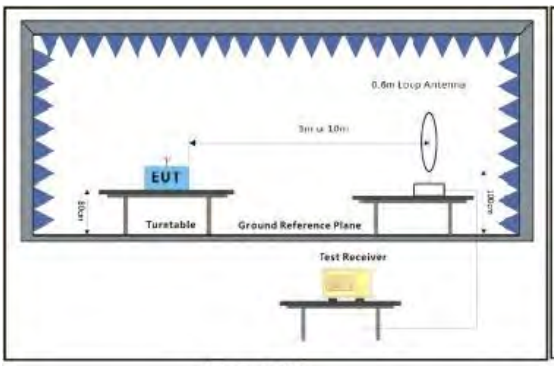
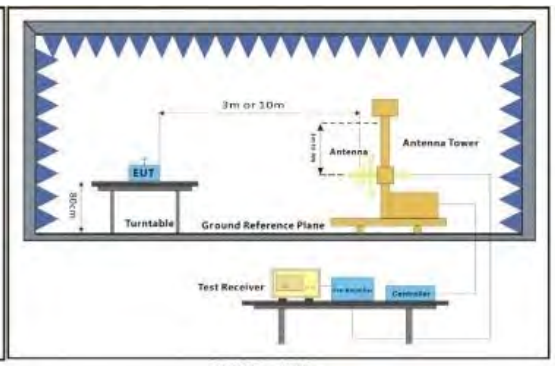
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

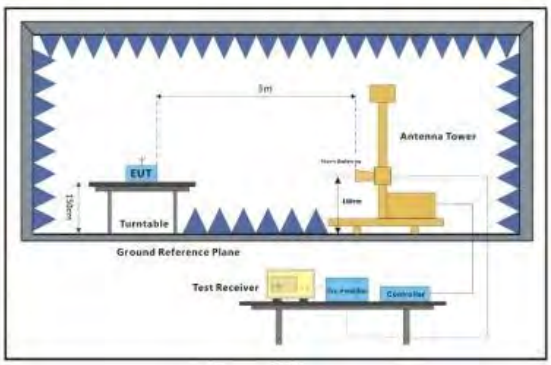
7.5.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz



Above 1GHz

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7.5.4 Measurement Procedure and Data

a. For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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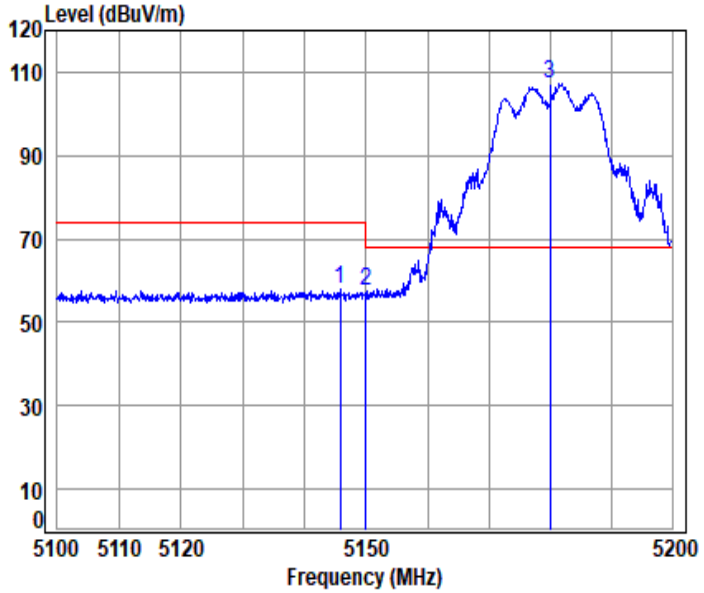
11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.859	10.12	32.39	30.84	46.45	58.12	74.00	-15.88	peak
2	5149.980	10.14	32.40	30.84	45.65	57.35	74.00	-16.65	peak
3 pp	5180.000	10.25	32.46	30.83	95.37	107.25	68.20	39.05	peak

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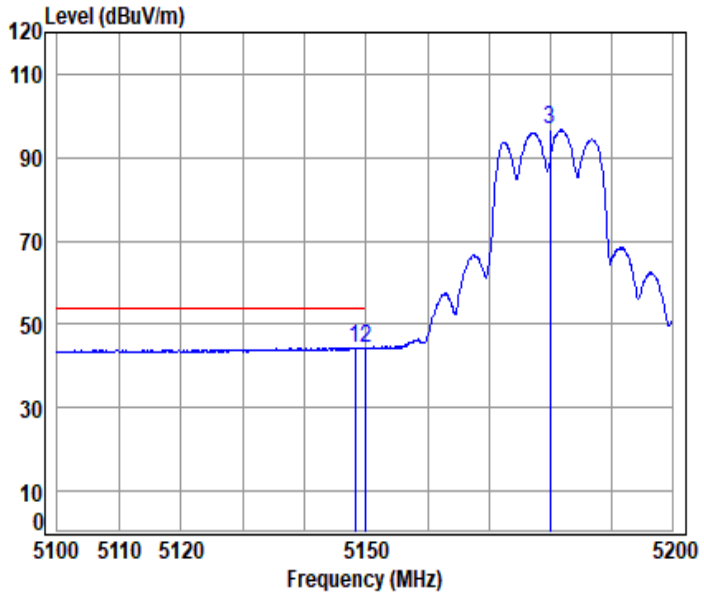
11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.257	10.13	32.40	30.84	32.71	44.40	54.00	-9.60	Average
2	5149.980	10.14	32.40	30.84	32.50	44.20	54.00	-9.80	Average
3	5180.000	10.25	32.46	30.83	84.69	96.57	------	------	Average

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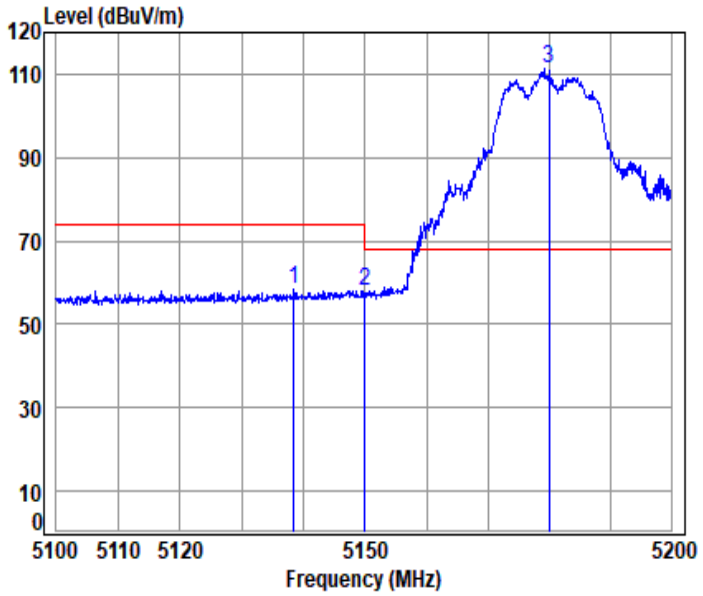
11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5138.470	10.10	32.38	30.84	46.81	58.45	74.00	-15.55	peak
2	5149.980	10.14	32.40	30.84	46.17	57.87	74.00	-16.13	peak
3 pp	5180.000	10.25	32.46	30.83	99.28	111.16	68.20	42.96	peak

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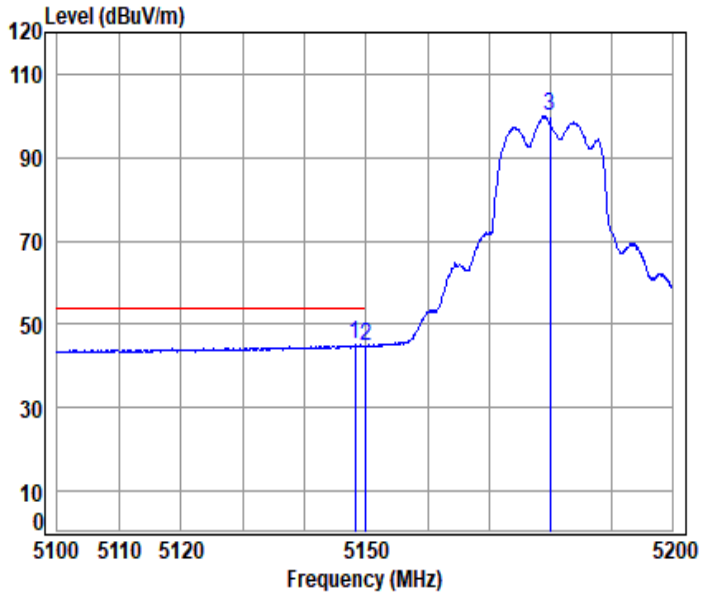
11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.158	10.13	32.40	30.84	33.30	44.99	54.00	-9.01	Average
2	5149.980	10.14	32.40	30.84	33.21	44.91	54.00	-9.09	Average
3	5180.000	10.25	32.46	30.83	87.90	99.78	------	------	Average

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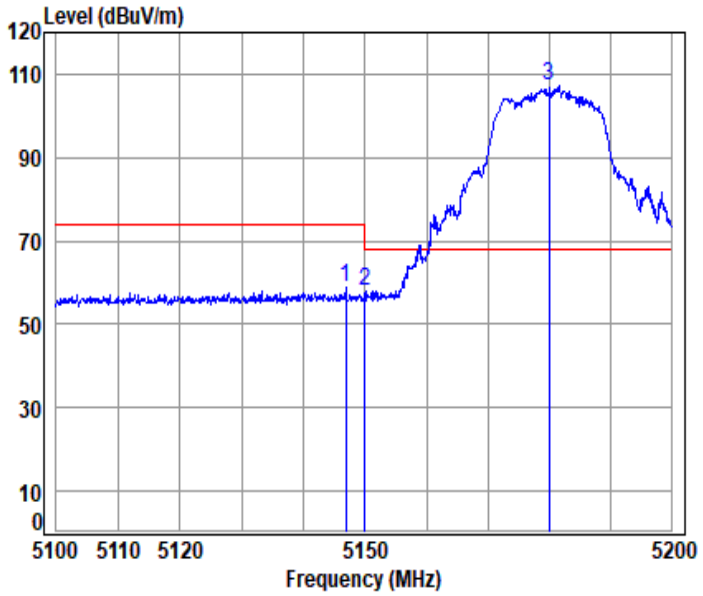
11n_HT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.858	10.13	32.39	30.84	47.34	59.02	74.00	-14.98	peak
2	5149.980	10.14	32.40	30.84	46.12	57.82	74.00	-16.18	peak
3 pp	5180.000	10.25	32.46	30.83	95.25	107.13	68.20	38.93	peak

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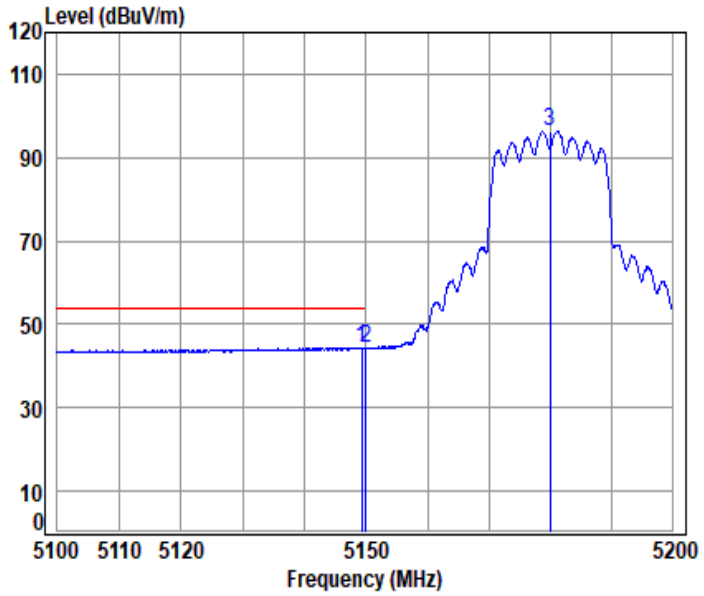

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.257	10.14	32.40	30.84	32.70	44.40	54.00	-9.60	Average
2	5149.980	10.14	32.40	30.84	32.61	44.31	54.00	-9.69	Average
3	5180.000	10.25	32.46	30.83	84.50	96.38	------	------	Average

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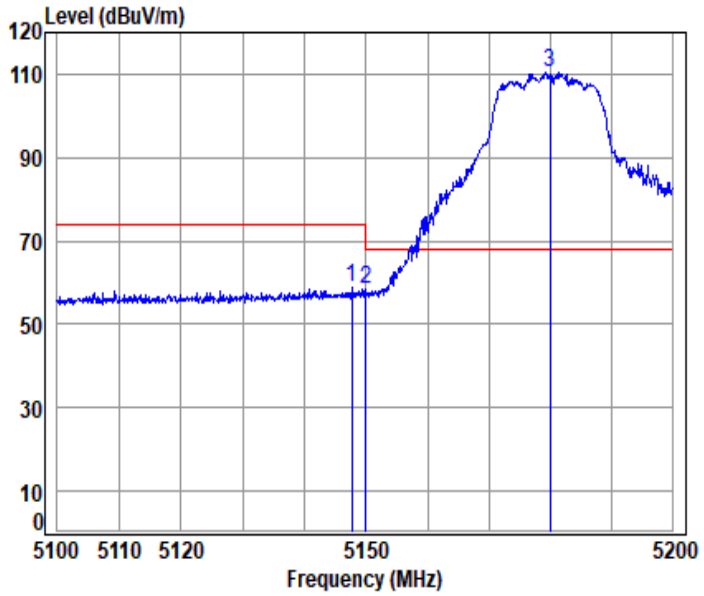
11n_HT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.658	10.13	32.40	30.84	47.18	58.87	74.00	-15.13	peak
2	5149.980	10.14	32.40	30.84	46.81	58.51	74.00	-15.49	peak
3 pp	5180.000	10.25	32.46	30.83	98.47	110.35	68.20	42.15	peak

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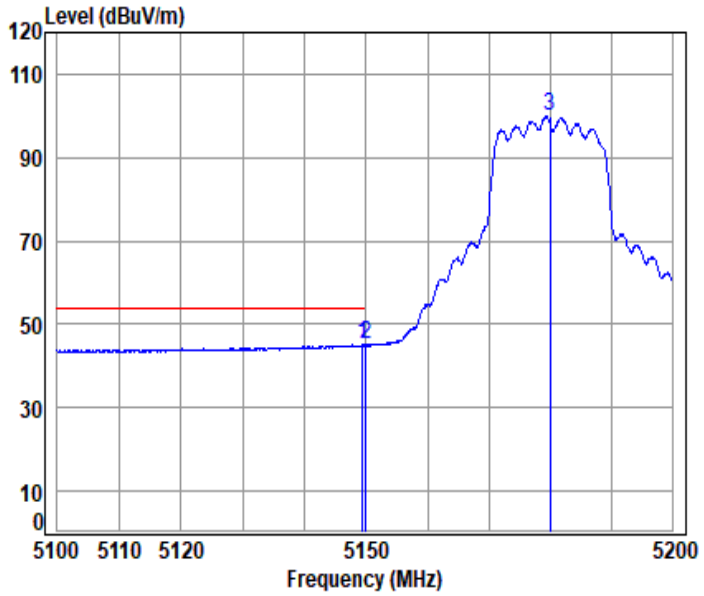
11n_HT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	33.26	44.96	54.00	-9.04	Average
2 pp	5149.980	10.14	32.40	30.84	33.43	45.13	54.00	-8.87	Average
3	5180.000	10.25	32.46	30.83	87.91	99.79	------	------	Average

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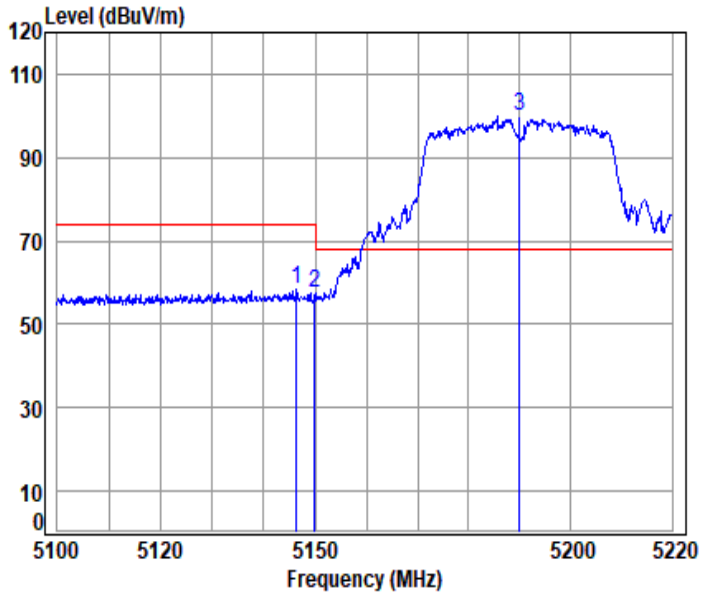
11n_HT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.349	10.13	32.39	30.84	46.50	58.18	74.00	-15.82	peak
2	5149.980	10.14	32.40	30.84	45.70	57.40	74.00	-16.60	peak
3 pp	5190.000	10.29	32.48	30.82	87.80	99.75	68.20	31.55	peak

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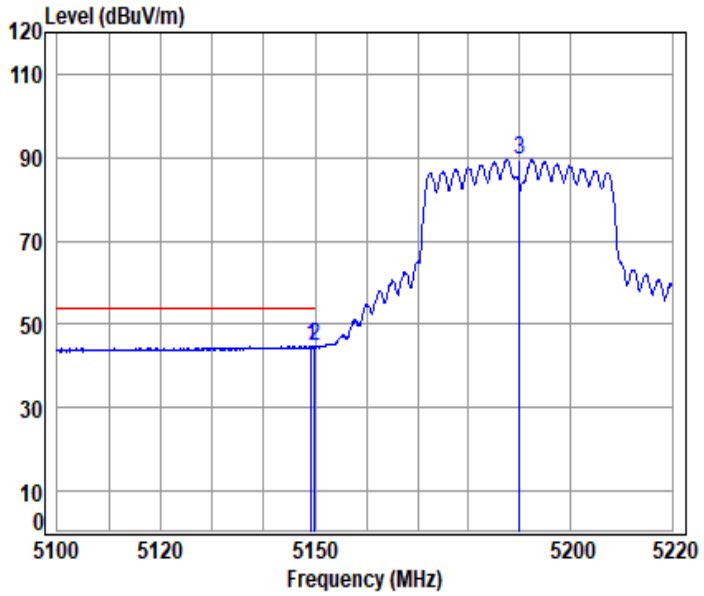
11n_HT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.342	10.14	32.40	30.84	33.06	44.76	54.00	-9.24	Average
2	5149.980	10.14	32.40	30.84	32.91	44.61	54.00	-9.39	Average
3	5190.000	10.29	32.48	30.82	77.50	89.45	------	------	Average

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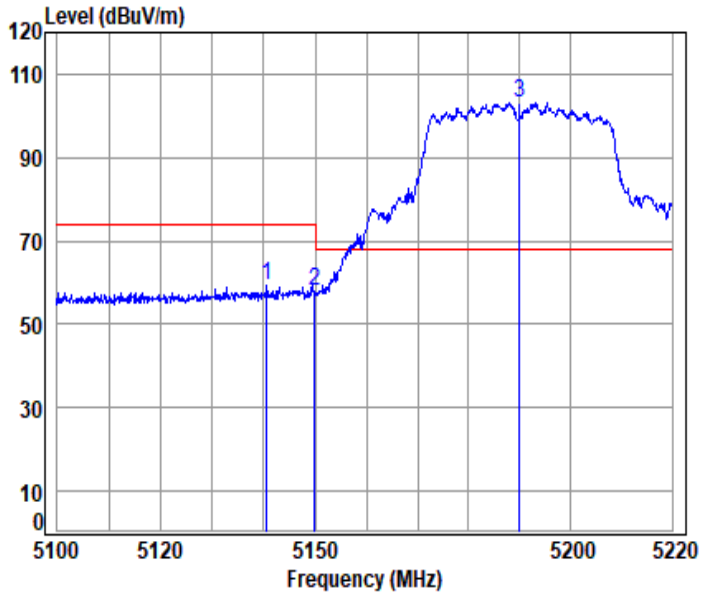
11n_HT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5140.607	10.10	32.38	30.84	47.68	59.32	74.00	-14.68	peak
2	5149.980	10.14	32.40	30.84	46.02	57.72	74.00	-16.28	peak
3 pp	5190.000	10.29	32.48	30.82	91.29	103.24	68.20	35.04	peak

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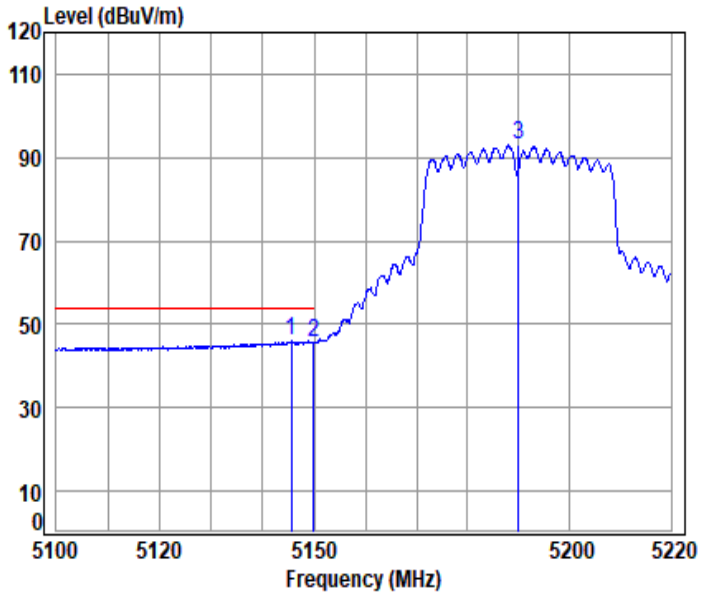
11n_HT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5145.511	10.12	32.39	30.84	34.39	46.06	54.00	-7.94	Average
2	5149.980	10.14	32.40	30.84	34.08	45.78	54.00	-8.22	Average
3	5190.000	10.29	32.48	30.82	81.16	93.11	------	------	Average

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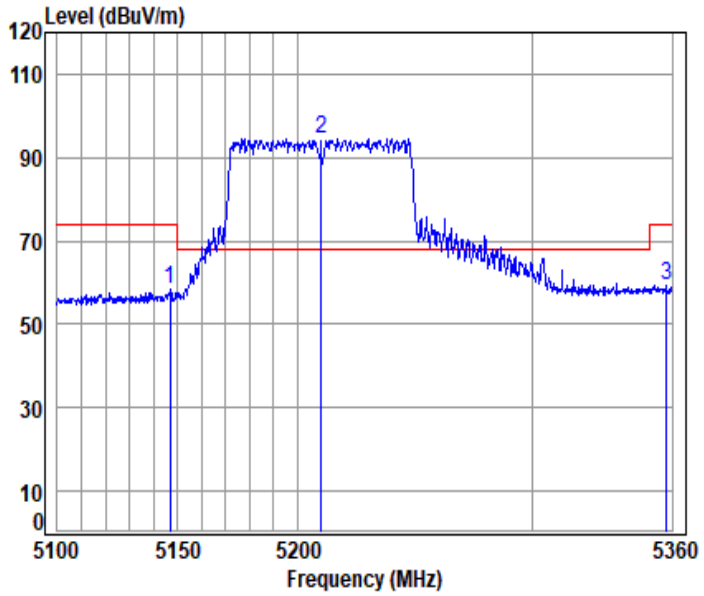
11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.619	10.13	32.39	30.84	46.79	58.47	74.00	-15.53	peak
2 pp	5210.000	10.32	32.52	30.82	82.60	94.62	68.20	26.42	peak
3	5357.602	10.48	32.80	30.76	46.67	59.19	74.00	-14.81	peak

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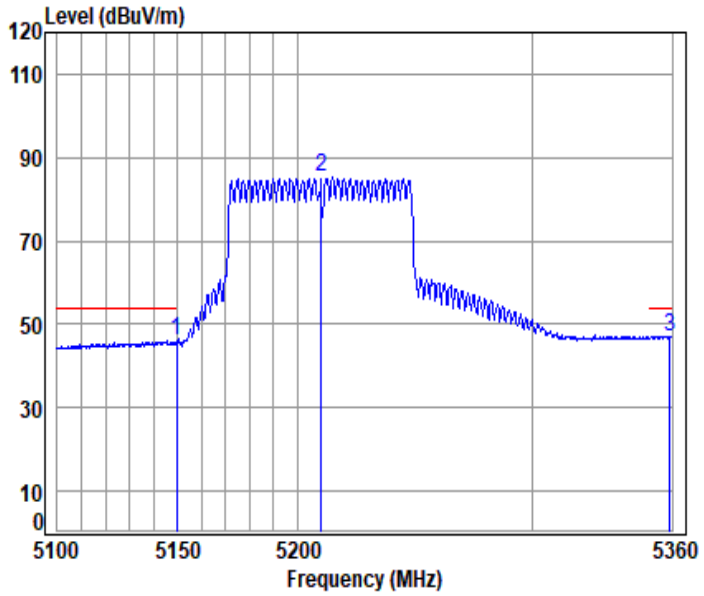
11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.435	10.14	32.40	30.84	34.48	46.18	54.00	-7.82	Average
2	5210.000	10.32	32.52	30.82	73.20	85.22	------	------	Average
3 pp	5358.934	10.48	32.80	30.76	34.67	47.19	54.00	-6.81	Average

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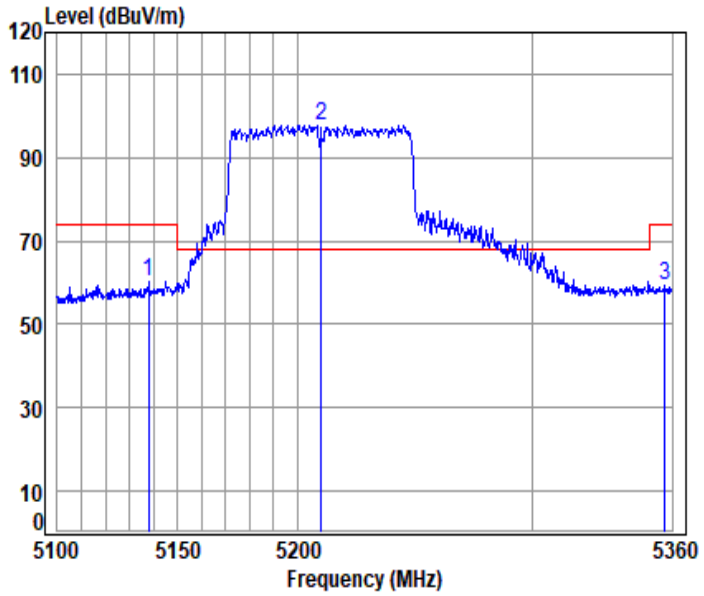

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.925	10.09	32.38	30.84	48.55	60.18	74.00	-13.82	peak
2 pp	5210.000	10.32	32.52	30.82	85.80	97.82	68.20	29.62	peak
3	5357.069	10.47	32.80	30.76	46.75	59.26	74.00	-14.74	peak

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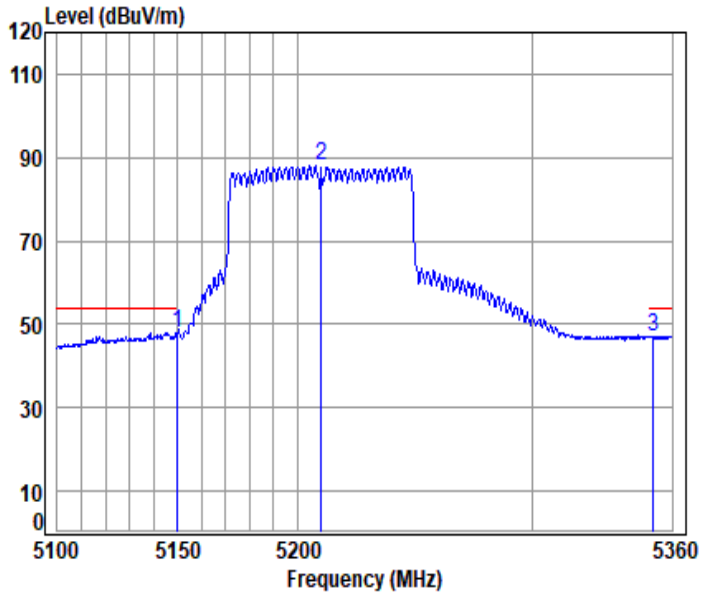

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	36.34	48.04	54.00	-5.96	Average
2	5210.000	10.32	32.52	30.82	76.12	88.14	------	------	Average
3	5351.744	10.46	32.80	30.76	34.71	47.21	54.00	-6.79	Average

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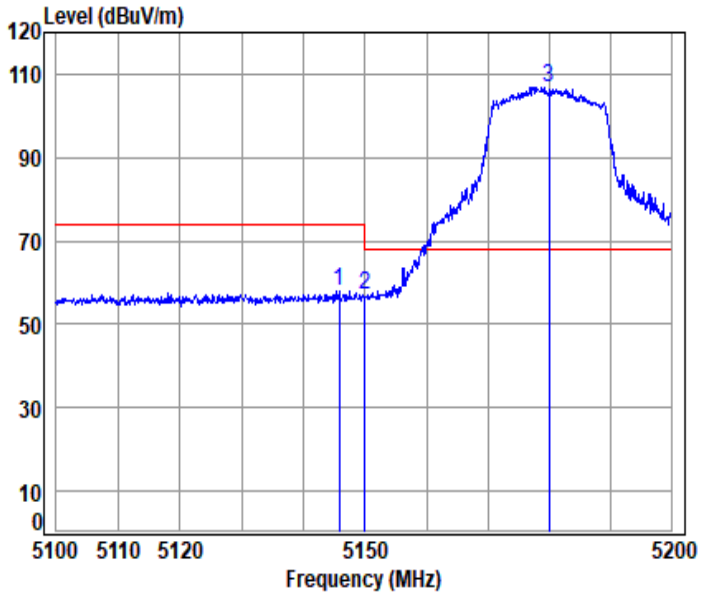
11ax_20M_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.759	10.12	32.39	30.84	46.47	58.14	74.00	-15.86	peak
2	5149.980	10.14	32.40	30.84	45.11	56.81	74.00	-17.19	peak
3 pp	5180.000	10.25	32.46	30.83	95.09	106.97	68.20	38.77	peak

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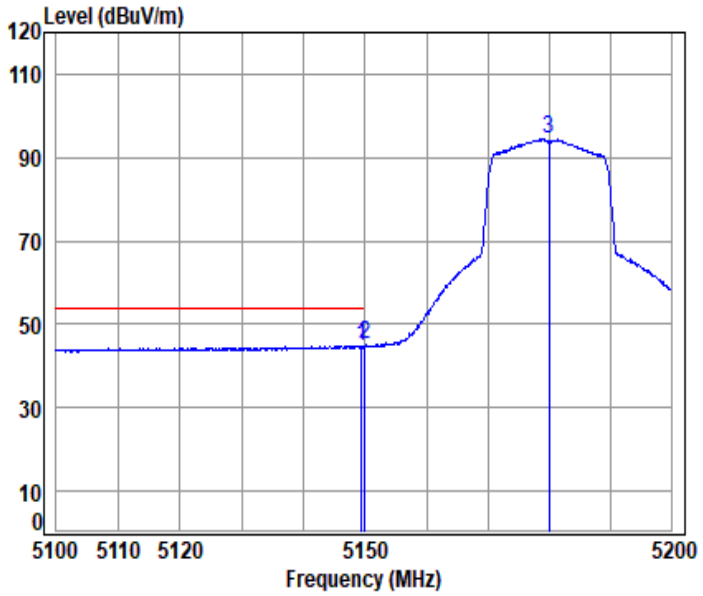
11ax_20M_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	10.14	32.40	30.84	33.15	44.85	54.00	-9.15	Average
2 pp	5149.980	10.14	32.40	30.84	33.49	45.19	54.00	-8.81	Average
3	5180.000	10.25	32.46	30.83	82.56	94.44	------	------	Average

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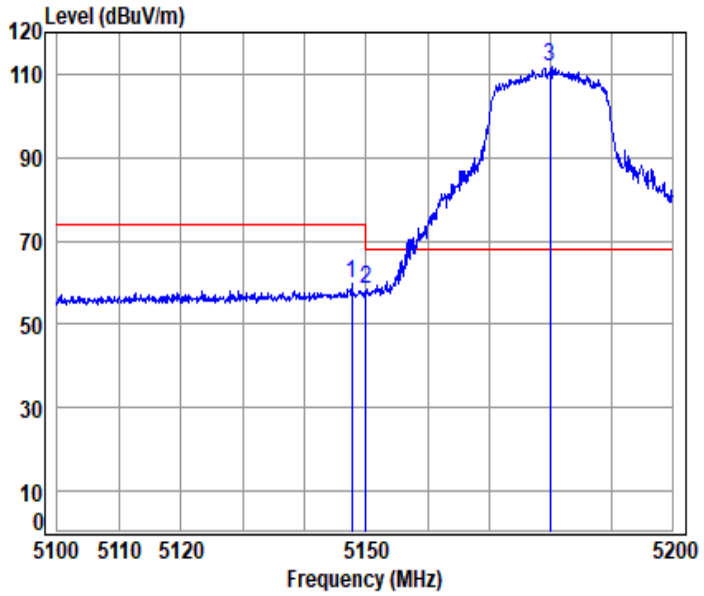
11ax_20M_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.658	10.13	32.40	30.84	48.17	59.86	74.00	-14.14	peak
2	5149.980	10.14	32.40	30.84	46.50	58.20	74.00	-15.80	peak
3 pp	5180.000	10.25	32.46	30.83	99.96	111.84	68.20	43.64	peak

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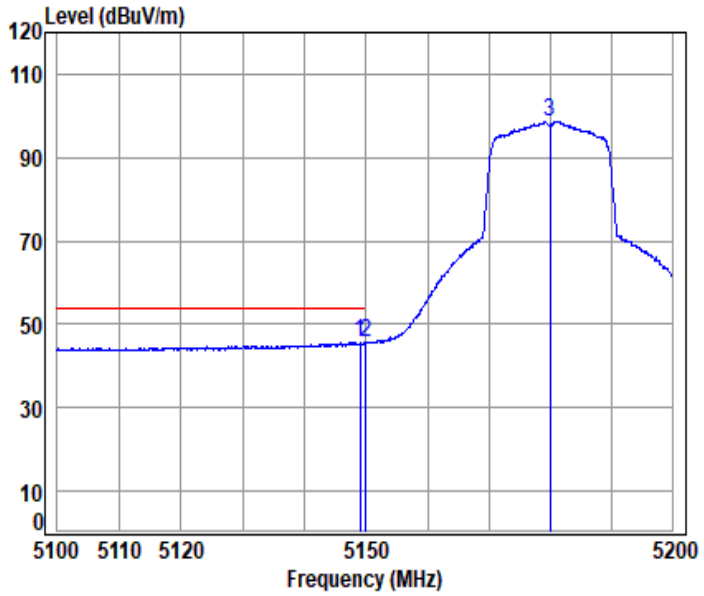
11ax_20M_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	10.14	32.40	30.84	33.86	45.56	54.00	-8.44	Average
2 pp	5149.980	10.14	32.40	30.84	34.13	45.83	54.00	-8.17	Average
3	5180.000	10.25	32.46	30.83	86.69	98.57	------	------	Average

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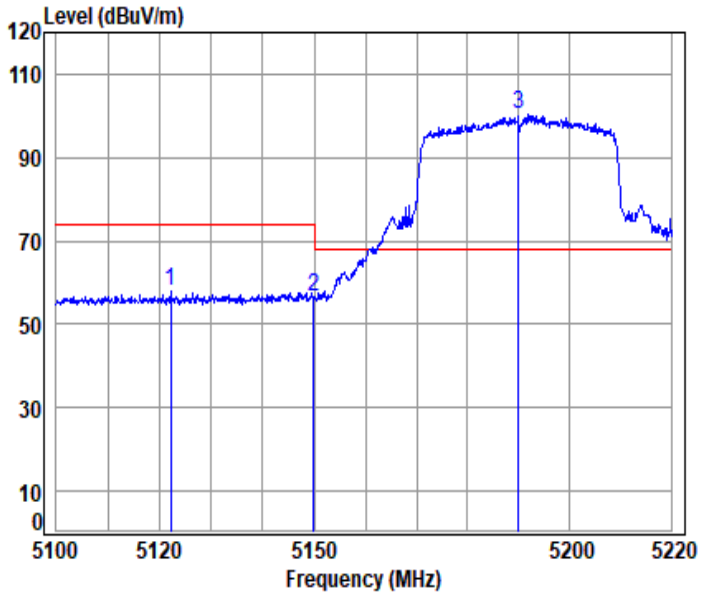
11ax_40M_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5122.109	10.03	32.34	30.85	46.40	57.92	74.00	-16.08	peak
2	5149.980	10.14	32.40	30.84	44.88	56.58	74.00	-17.42	peak
3 pp	5190.000	10.29	32.48	30.82	88.27	100.22	68.20	32.02	peak

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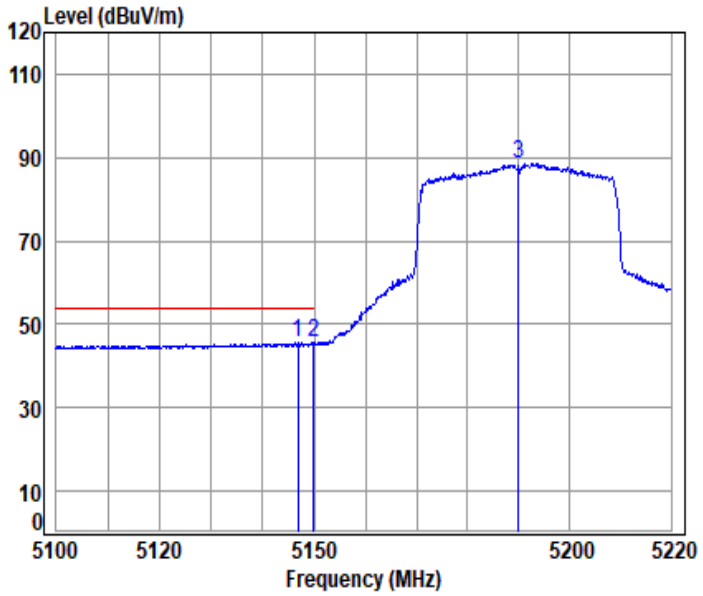
11ax_40M_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.828	10.13	32.39	30.84	33.88	45.56	54.00	-8.44	Average
2 pp	5149.980	10.14	32.40	30.84	34.11	45.81	54.00	-8.19	Average
3	5190.000	10.29	32.48	30.82	76.71	88.66	------	------	Average

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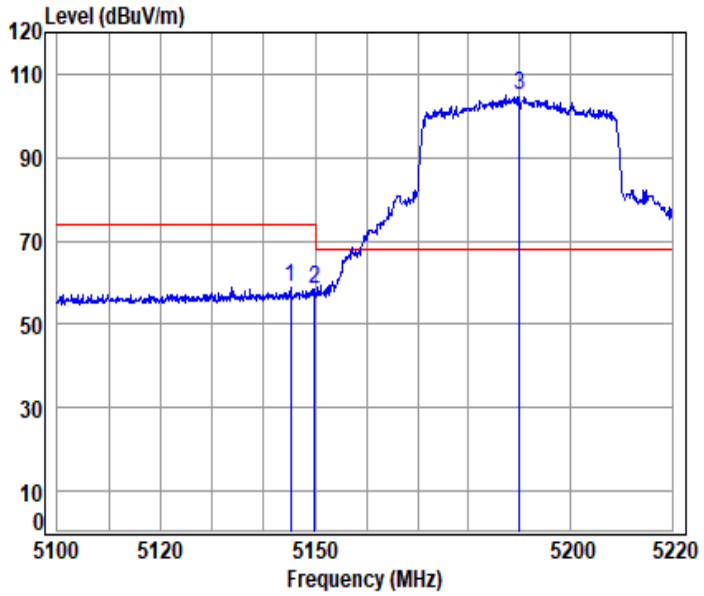
11ax_40M_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.271	10.12	32.39	30.84	47.23	58.90	74.00	-15.10	peak
2	5149.980	10.14	32.40	30.84	46.62	58.32	74.00	-15.68	peak
3 pp	5190.000	10.29	32.48	30.82	93.04	104.99	68.20	36.79	peak

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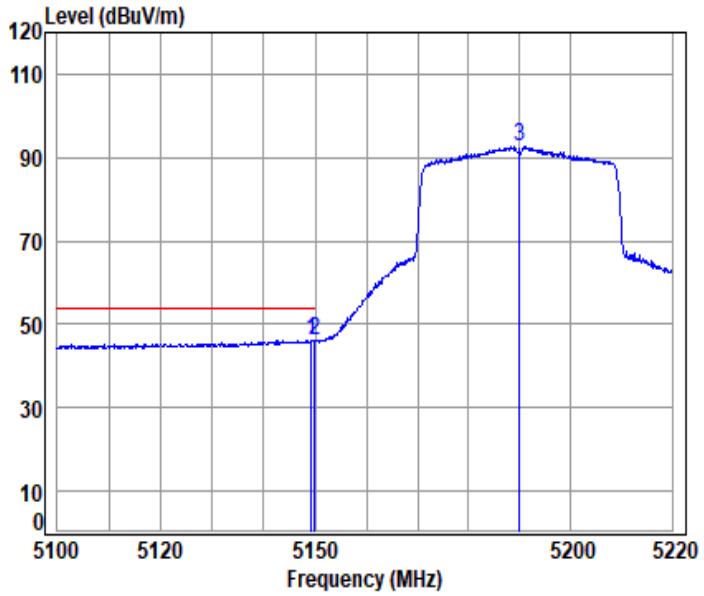
11ax_40M_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.342	10.14	32.40	30.84	34.53	46.23	54.00	-7.77	Average
2 pp	5149.980	10.14	32.40	30.84	34.59	46.29	54.00	-7.71	Average
3	5190.000	10.29	32.48	30.82	80.72	92.67	------	------	Average

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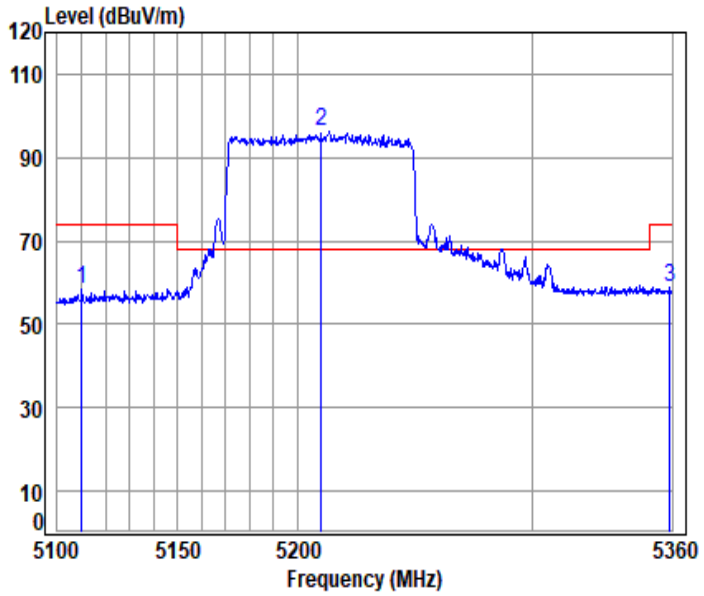
11ax_80M_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5110.154	9.99	32.32	30.86	47.02	58.47	74.00	-15.53	peak
2 pp	5210.000	10.32	32.52	30.82	84.39	96.41	68.20	28.21	peak
3	5359.201	10.48	32.80	30.76	46.53	59.05	74.00	-14.95	peak

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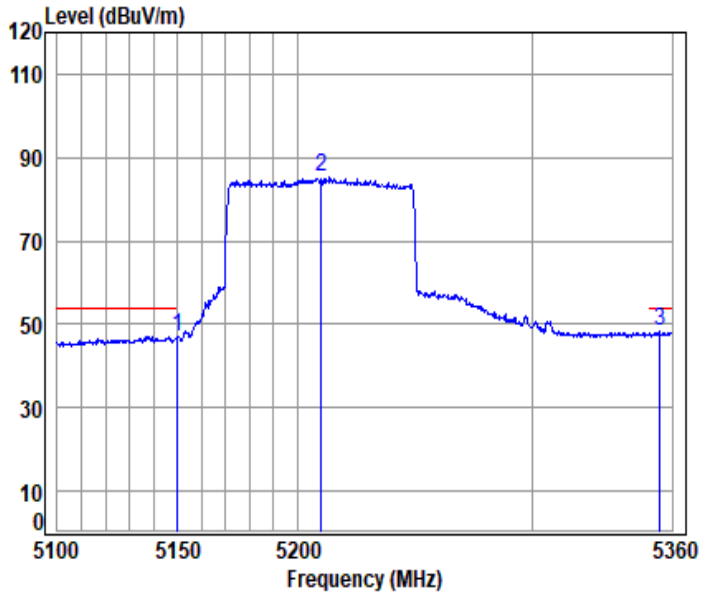
11ax_80M_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.690	10.14	32.40	30.84	35.44	47.14	54.00	-6.86	Average
2	5210.000	10.32	32.52	30.82	73.16	85.18	------	------	Average
3 pp	5354.938	10.47	32.80	30.76	35.95	48.46	54.00	-5.54	Average

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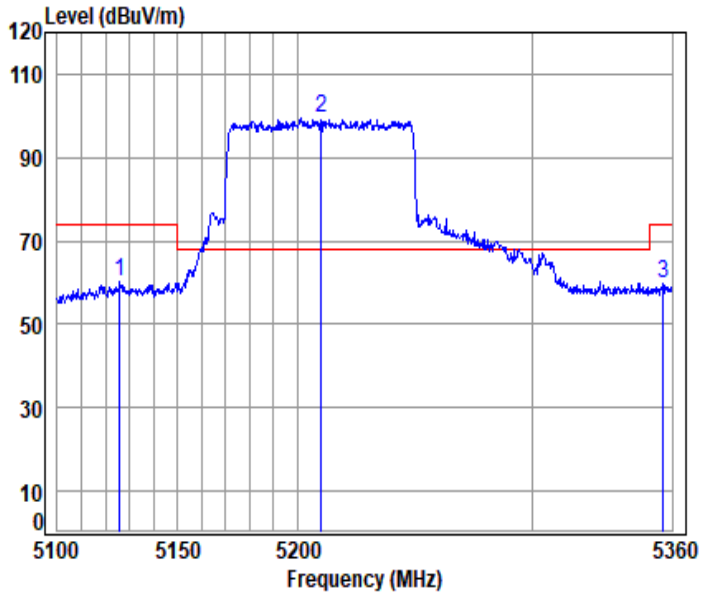

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5125.932	10.05	32.35	30.85	48.47	60.02	74.00	-13.98	peak
2 pp	5210.000	10.32	32.52	30.82	87.35	99.37	68.20	31.17	peak
3	5356.270	10.47	32.80	30.76	47.05	59.56	74.00	-14.44	peak

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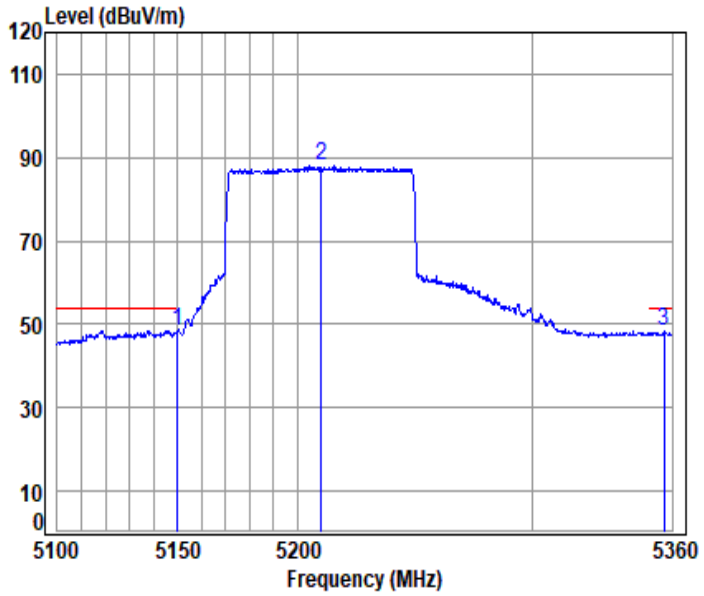

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	36.80	48.50	54.00	-5.50	Average
2	5210.000	10.32	32.52	30.82	76.05	88.07	------	------	Average
3	5356.537	10.47	32.80	30.76	35.73	48.24	54.00	-5.76	Average

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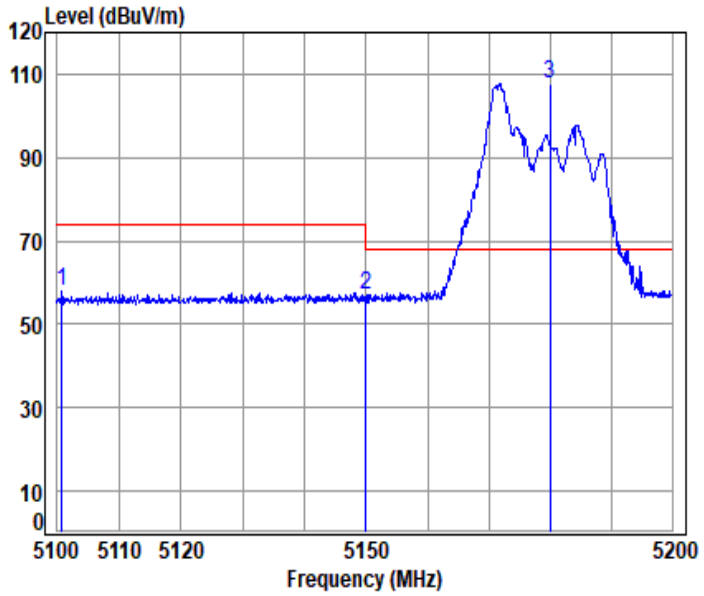
11ax_20M_Partial_RU26_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5100.693	9.95	32.30	30.86	46.74	58.13	74.00	-15.87	peak
2	5149.980	10.14	32.40	30.84	45.11	56.81	74.00	-17.19	peak
3 pp	5180.000	10.25	32.46	30.83	95.93	107.81	68.20	39.61	peak

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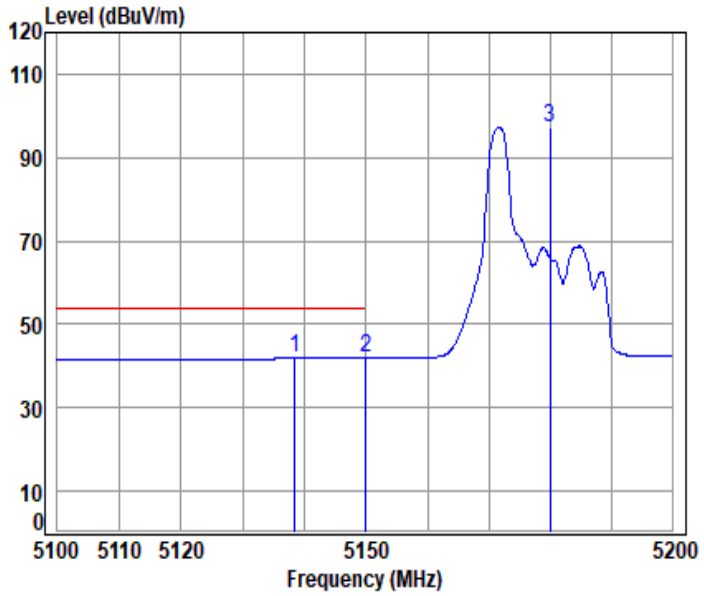
11ax_20M_Partial_RU26_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5138.470	10.10	32.38	30.84	30.29	41.93	54.00	-12.07	Average
2	5149.980	10.14	32.40	30.84	30.19	41.89	54.00	-12.11	Average
3	5180.000	10.25	32.46	30.83	85.31	97.19	------	------	Average

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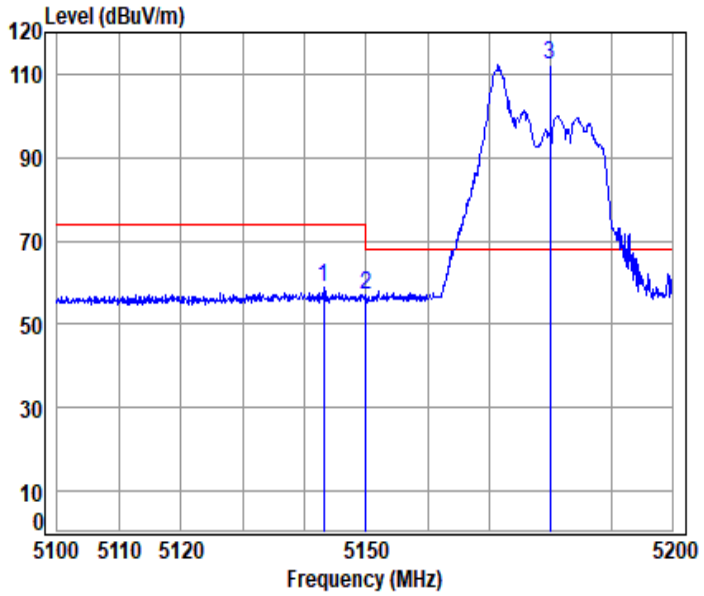
11ax_20M_Partial_RU26_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.162	10.11	32.39	30.84	47.15	58.81	74.00	-15.19	peak
2	5149.980	10.14	32.40	30.84	45.49	57.19	74.00	-16.81	peak
3 pp	5180.000	10.25	32.46	30.83	100.36	112.24	68.20	44.04	peak

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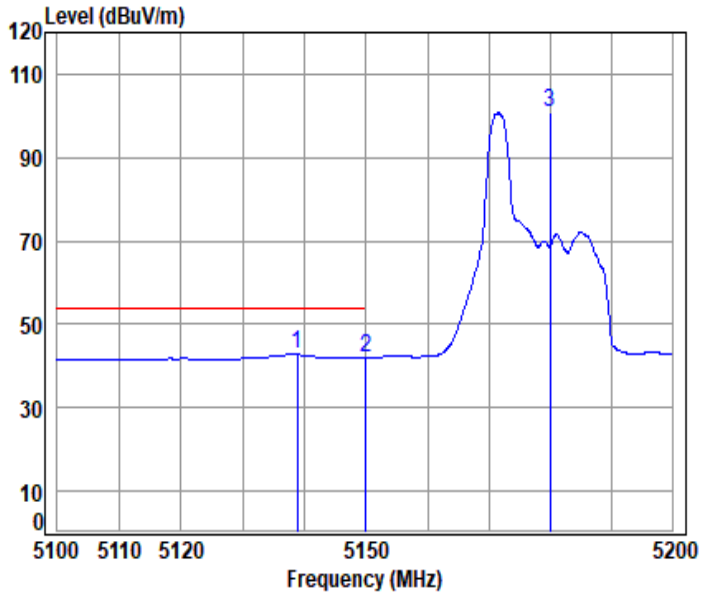
11ax_20M_Partial_RU26_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5138.769	10.10	32.38	30.84	31.07	42.71	54.00	-11.29	Average
2	5149.980	10.14	32.40	30.84	30.35	42.05	54.00	-11.95	Average
3	5180.000	10.25	32.46	30.83	88.77	100.65	------	------	Average

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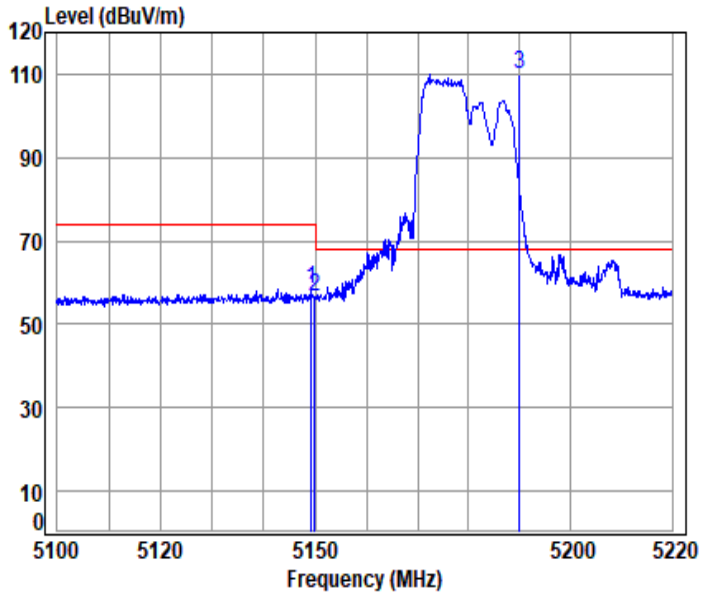
11ax_40M_Partial_RU106_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.342	10.14	32.40	30.84	46.79	58.49	74.00	-15.51	peak
2	5149.980	10.14	32.40	30.84	44.93	56.63	74.00	-17.37	peak
3 pp	5190.000	10.29	32.48	30.82	97.80	109.75	68.20	41.55	peak

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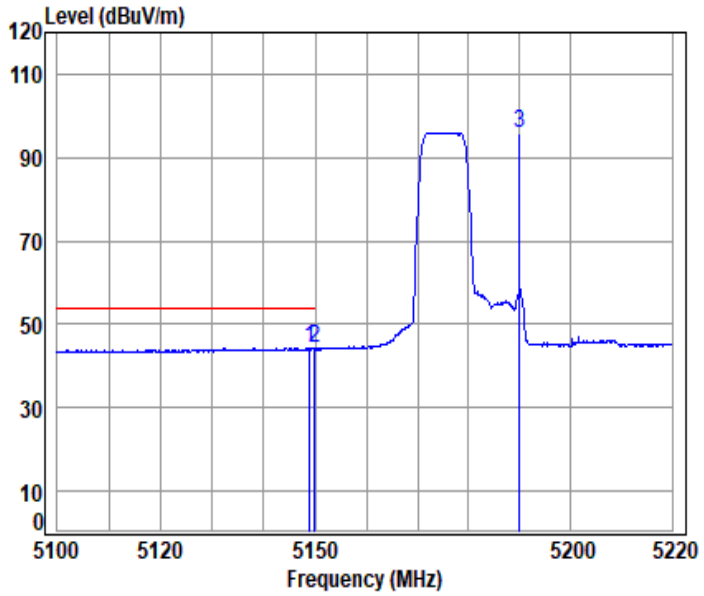
11ax_40M_Partial_RU106_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.982	10.14	32.40	30.84	32.66	44.36	54.00	-9.64	Average
2	5149.980	10.14	32.40	30.84	32.43	44.13	54.00	-9.87	Average
3	5190.000	10.29	32.48	30.82	84.06	96.01	------	------	Average

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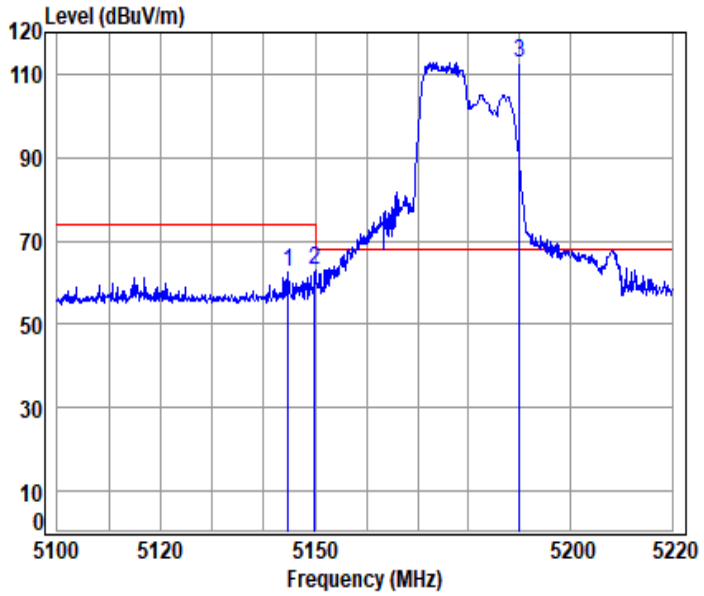

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.793	10.12	32.39	30.84	50.65	62.32	74.00	-11.68	peak
2	5149.980	10.14	32.40	30.84	51.08	62.78	74.00	-11.22	peak
3 pp	5190.000	10.29	32.48	30.82	100.78	112.73	68.20	44.53	peak

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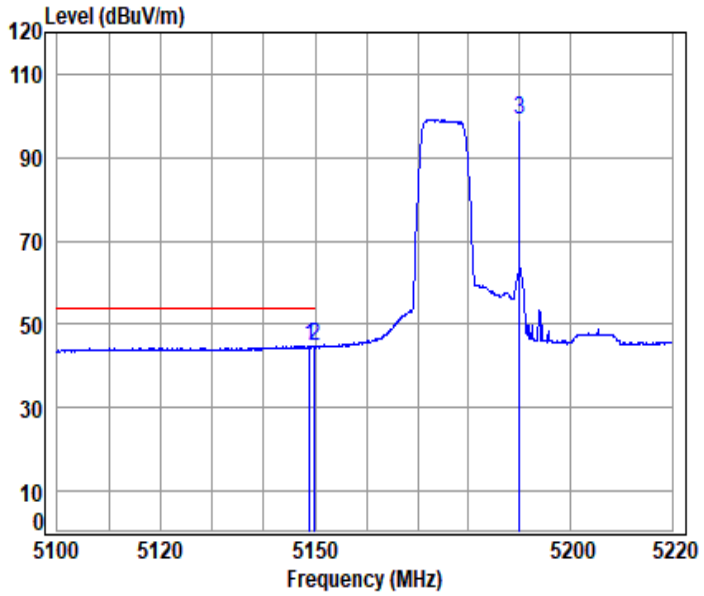
11ax_40M_Partial_RU106_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5190 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.982	10.14	32.40	30.84	32.98	44.68	54.00	-9.32	Average
2 pp	5149.980	10.14	32.40	30.84	33.04	44.74	54.00	-9.26	Average
3	5190.000	10.29	32.48	30.82	87.00	98.95	------	------	Average

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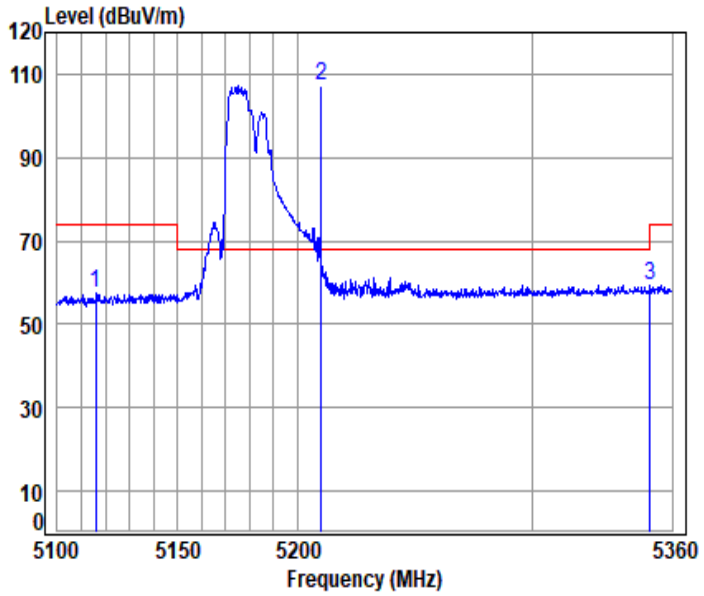
11ax_80M_Partial_RU106_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5116.001	10.01	32.33	30.85	46.08	57.57	74.00	-16.43	peak
2 pp	5210.000	10.32	32.52	30.82	95.06	107.08	68.20	38.88	peak
3	5350.414	10.45	32.80	30.76	46.97	59.46	74.00	-14.54	peak

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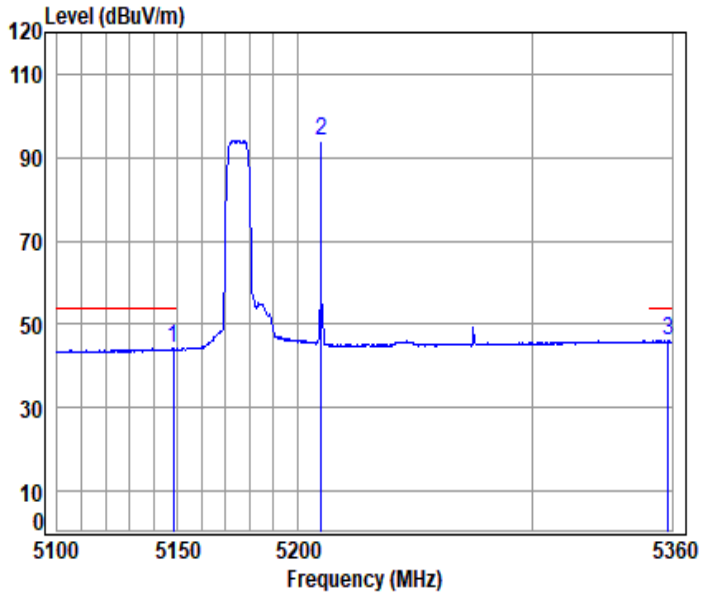
11ax_80M_Partial_RU106_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.154	10.13	32.40	30.84	32.61	44.30	54.00	-9.70	Average
2	5210.000	10.32	32.52	30.82	81.97	93.99	------	------	Average
3 pp	5358.401	10.48	32.80	30.76	33.58	46.10	54.00	-7.90	Average

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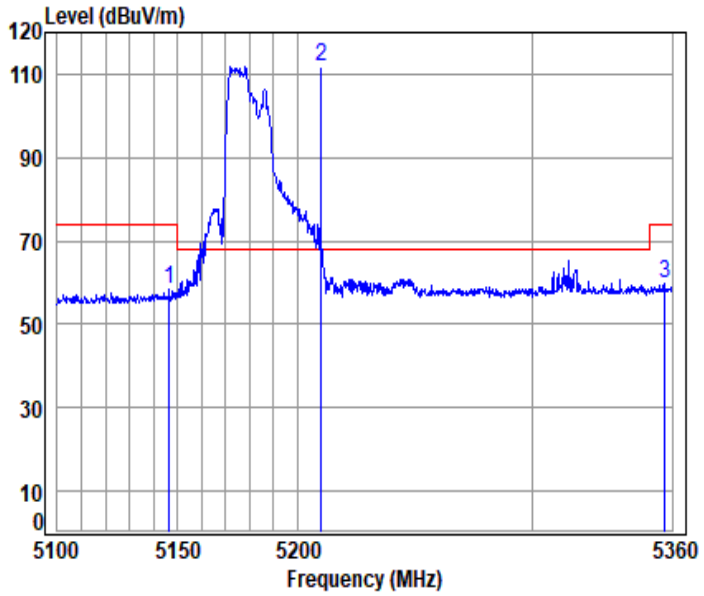
11ax_80M_Partial_RU106_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.363	10.13	32.39	30.84	46.73	58.41	74.00	-15.59	peak
2 pp	5210.000	10.32	32.52	30.82	99.85	111.87	68.20	43.67	peak
3	5357.069	10.47	32.80	30.76	47.10	59.61	74.00	-14.39	peak

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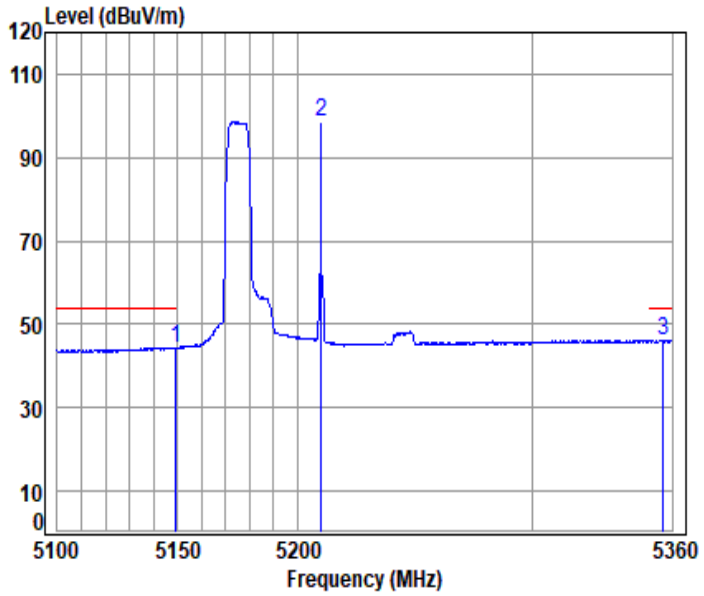
11ax_80M_Partial_RU106_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5210 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.178	10.14	32.40	30.84	32.78	44.48	54.00	-9.52	Average
2	5210.000	10.32	32.52	30.82	86.36	98.38	------	------	Average
3 pp	5356.270	10.47	32.80	30.76	33.65	46.16	54.00	-7.84	Average

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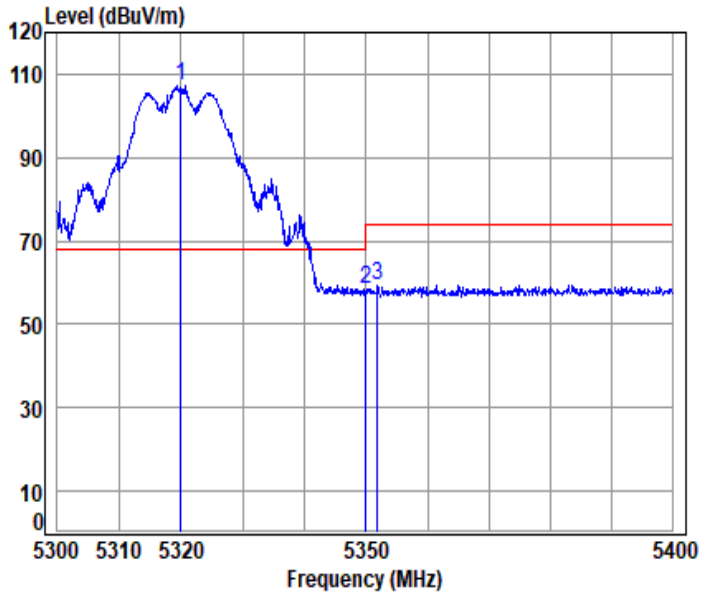
11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.08	107.40	68.20	39.20	peak
2	5350.020	10.45	32.80	30.76	46.13	58.62	74.00	-15.38	peak
3	5351.867	10.46	32.80	30.76	46.82	59.32	74.00	-14.68	peak

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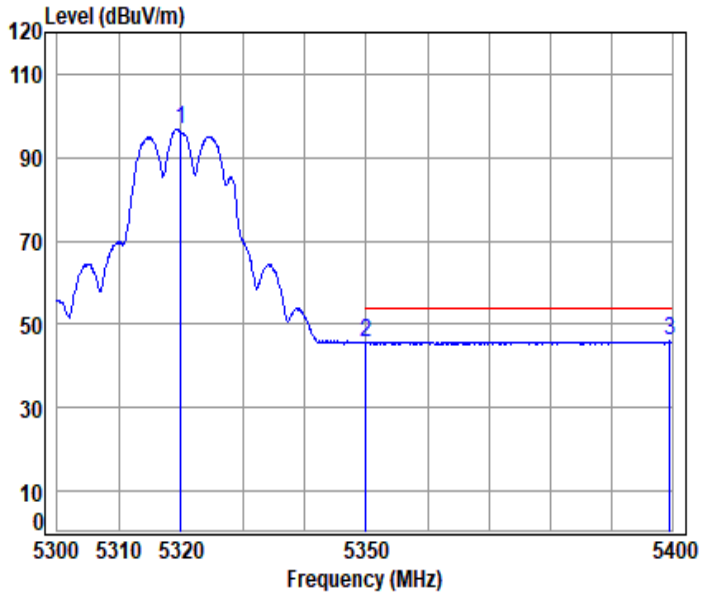
11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	84.52	96.84	------	------	Average
2	5350.020	10.45	32.80	30.76	33.20	45.69	54.00	-8.31	Average
3 pp	5399.697	10.62	32.80	30.74	33.29	45.97	54.00	-8.03	Average

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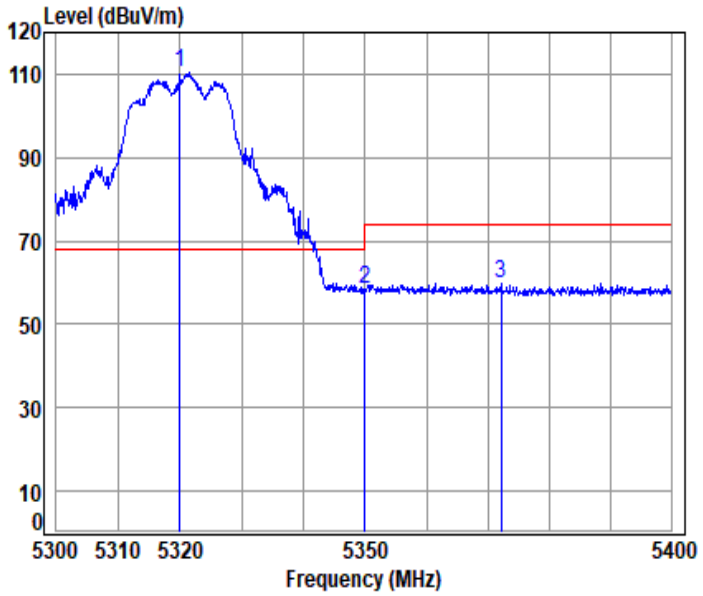
11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	98.04	110.36	68.20	42.16	peak
2	5350.020	10.45	32.80	30.76	46.06	58.55	74.00	-15.45	peak
3	5372.213	10.53	32.80	30.75	47.28	59.86	74.00	-14.14	peak

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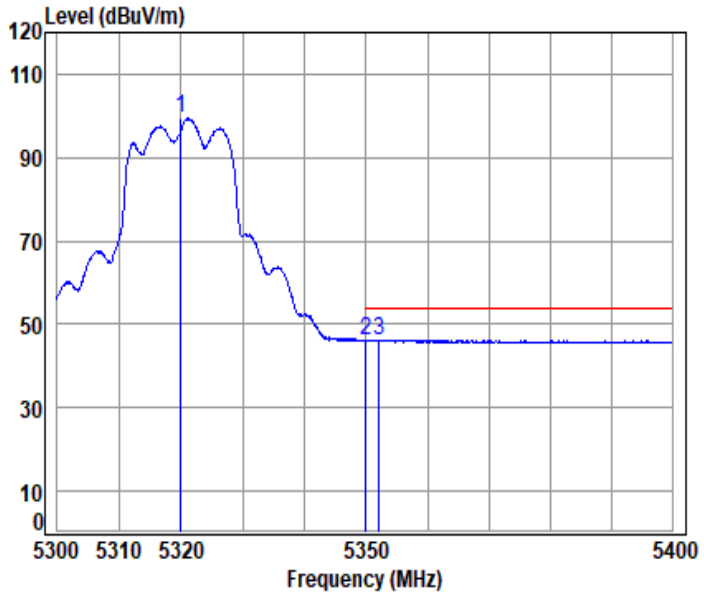
11a_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	87.08	99.40	------	------	Average
2	5350.020	10.45	32.80	30.76	33.63	46.12	54.00	-7.88	Average
3 pp	5352.167	10.46	32.80	30.76	33.74	46.24	54.00	-7.76	Average

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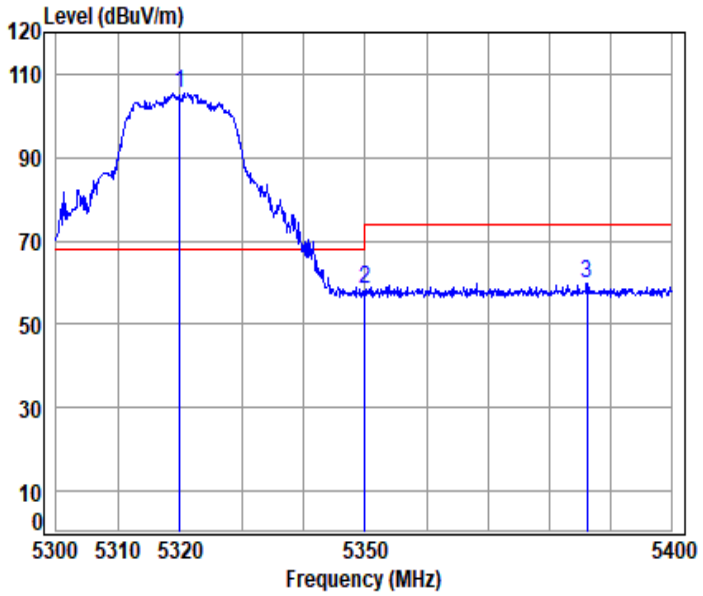

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	93.02	105.34	68.20	37.14	peak
2	5350.020	10.45	32.80	30.76	45.73	58.22	74.00	-15.78	peak
3	5386.189	10.57	32.80	30.75	47.22	59.84	74.00	-14.16	peak

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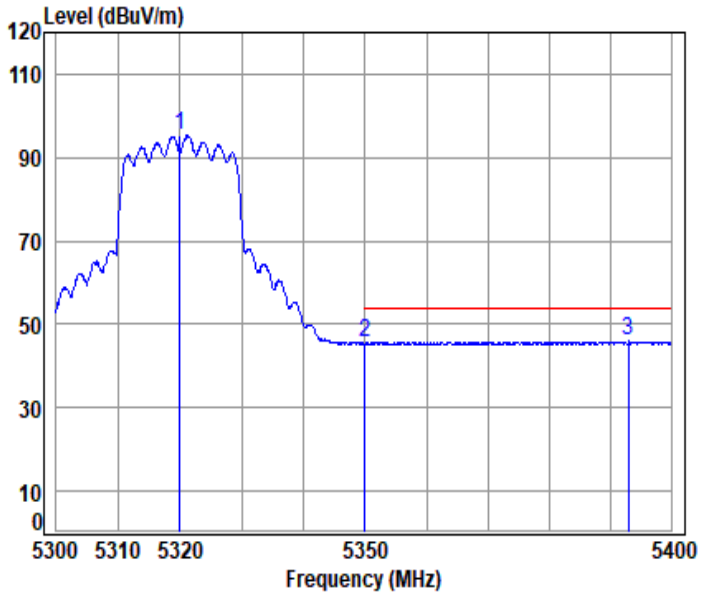

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	83.09	95.41	------	------	Average
2	5350.020	10.45	32.80	30.76	33.03	45.52	54.00	-8.48	Average
3 pp	5393.040	10.60	32.80	30.74	33.42	46.08	54.00	-7.92	Average

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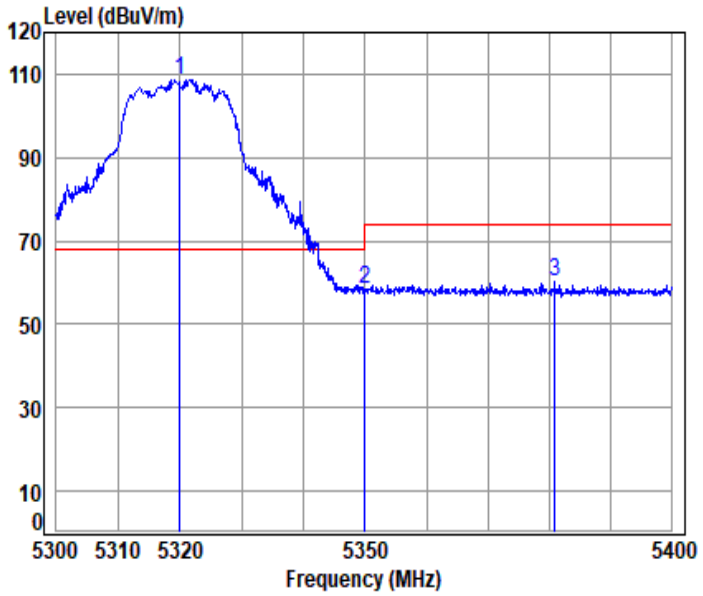
11n_HT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.44	108.76	68.20	40.56	peak
2	5350.020	10.45	32.80	30.76	45.73	58.22	74.00	-15.78	peak
3	5380.957	10.56	32.80	30.75	47.47	60.08	74.00	-13.92	peak

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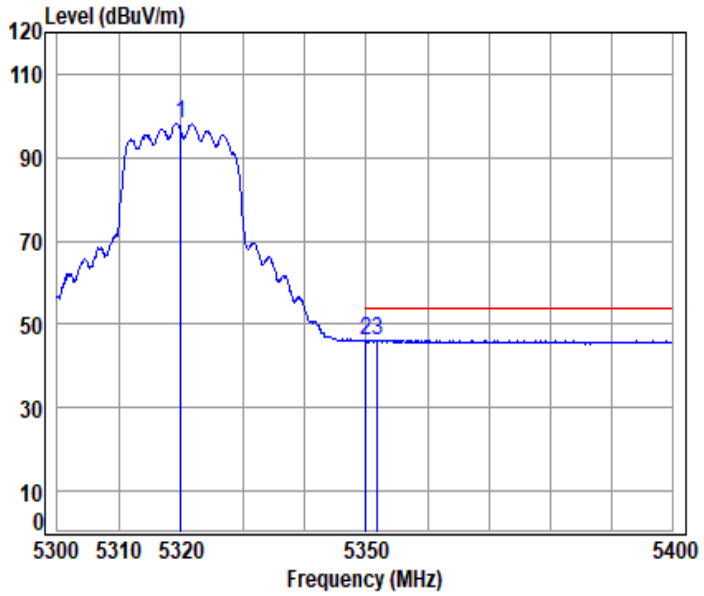
11n_HT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	85.96	98.28	------	------	Average
2	5350.020	10.45	32.80	30.76	33.63	46.12	54.00	-7.88	Average
3 pp	5351.867	10.46	32.80	30.76	33.76	46.26	54.00	-7.74	Average

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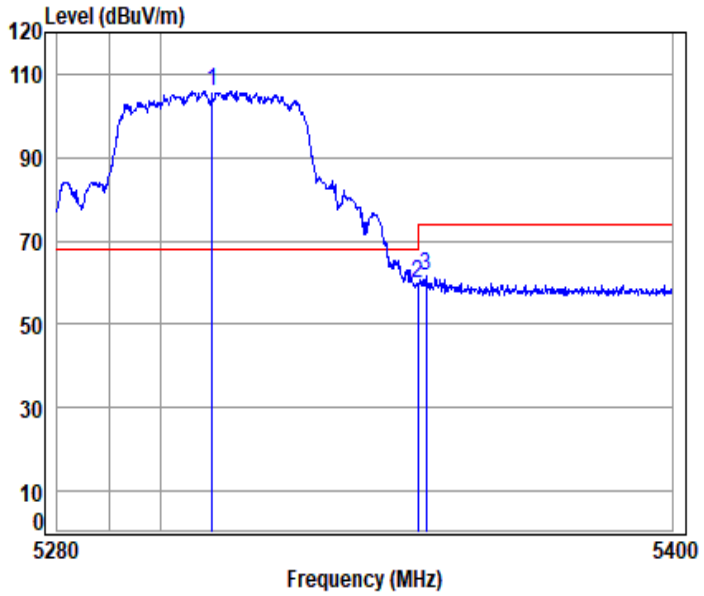
11n_HT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	93.67	105.92	68.20	37.72	peak
2	5350.020	10.45	32.80	30.76	47.21	59.70	74.00	-14.30	peak
3	5351.676	10.46	32.80	30.76	49.14	61.64	74.00	-12.36	peak

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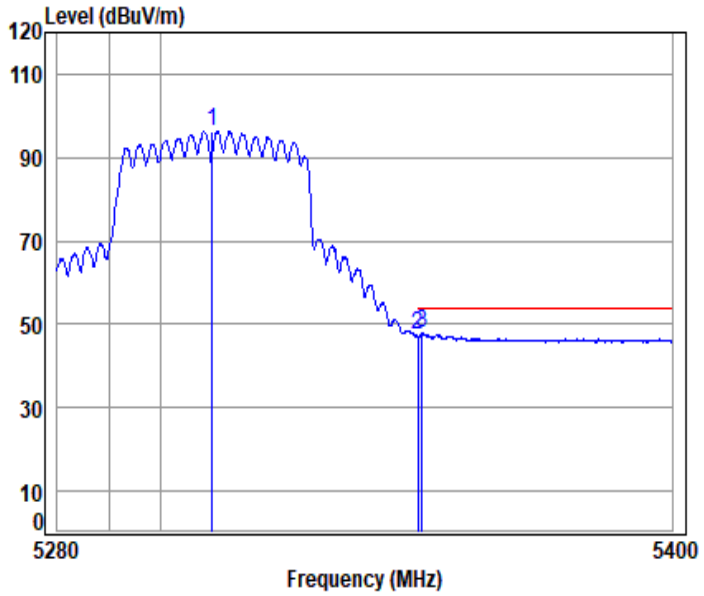
11n_HT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	84.17	96.42	------	------	Average
2	5350.020	10.45	32.80	30.76	34.90	47.39	54.00	-6.61	Average
3 pp	5350.834	10.45	32.80	30.76	35.27	47.76	54.00	-6.24	Average

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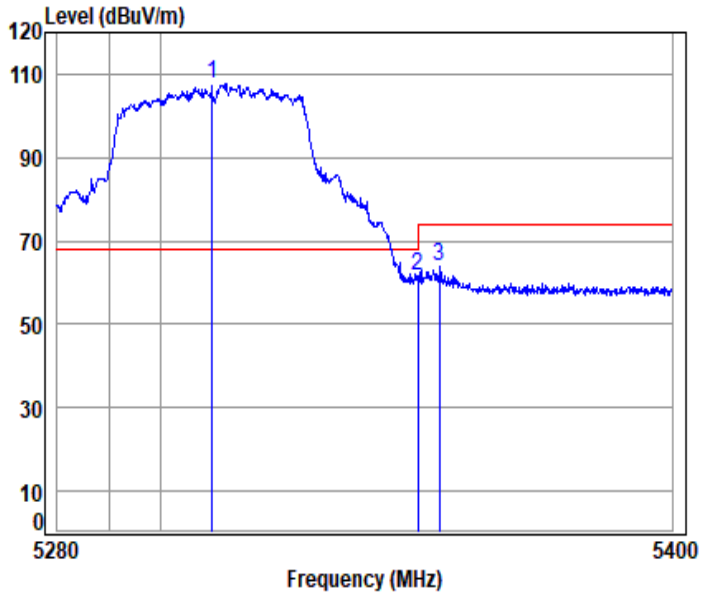
11n_HT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	95.43	107.68	68.20	39.48	peak
2	5350.020	10.45	32.80	30.76	49.22	61.71	74.00	-12.29	peak
3	5354.323	10.46	32.80	30.76	51.43	63.93	74.00	-10.07	peak

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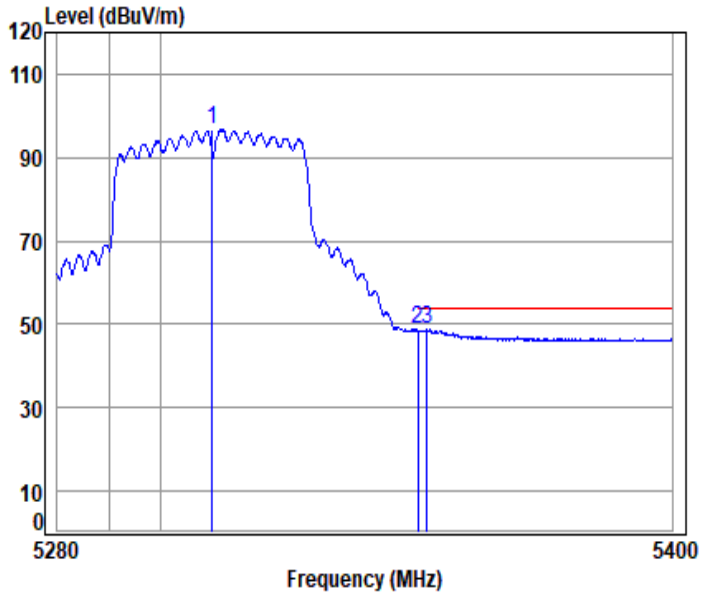
11n_HT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	84.64	96.89	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	36.41	48.90	54.00	-5.10	Average
3	5351.917	10.46	32.80	30.76	36.20	48.70	54.00	-5.30	Average

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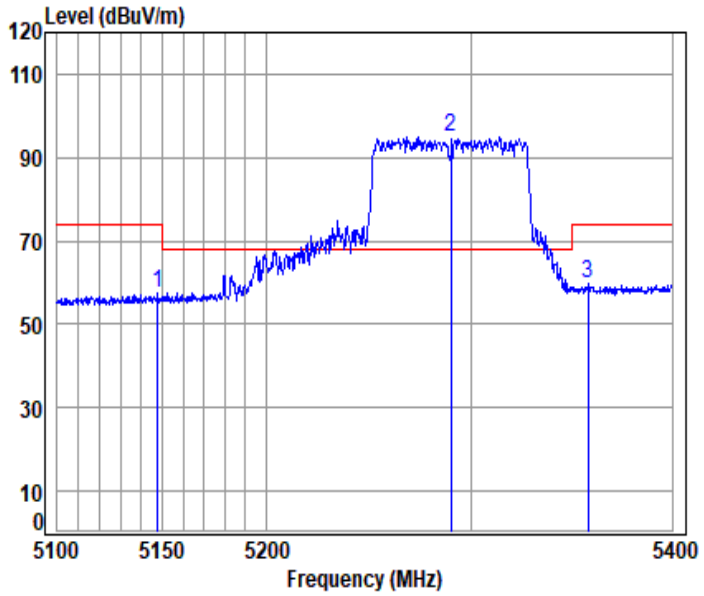
11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.738	10.13	32.40	30.84	45.74	57.43	74.00	-16.57	peak
2 pp	5290.000	10.28	32.68	30.78	82.88	95.06	68.20	26.86	peak
3	5357.879	10.48	32.80	30.76	47.33	59.85	74.00	-14.15	peak

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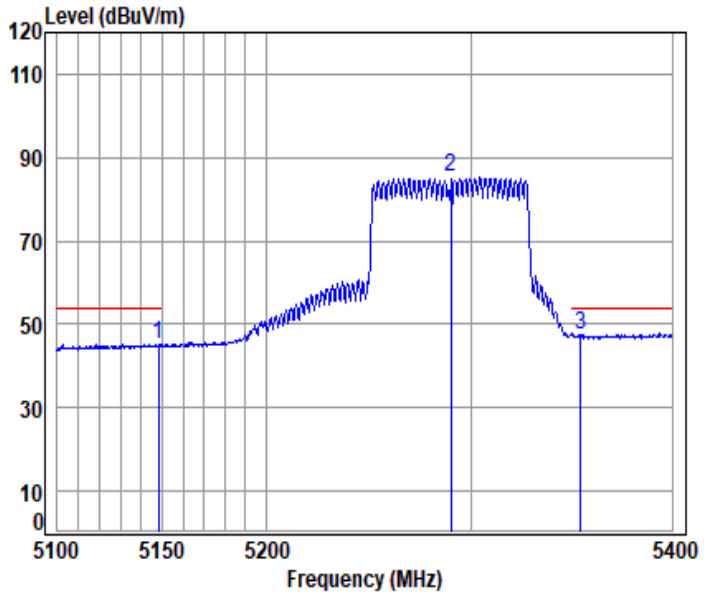
11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.326	10.13	32.40	30.84	33.45	45.14	54.00	-8.86	Average
2	5290.000	10.28	32.68	30.78	73.02	85.20	------	------	Average
3 pp	5354.206	10.46	32.80	30.76	35.07	47.57	54.00	-6.43	Average

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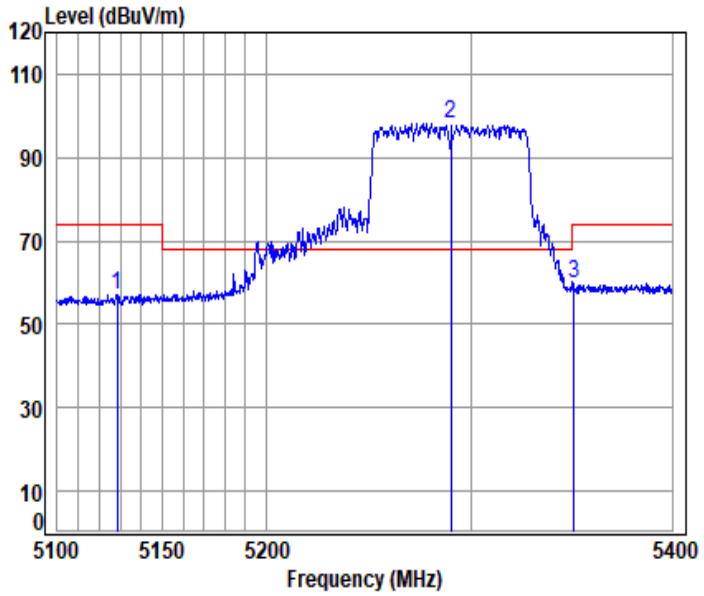

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5128.648	10.06	32.36	30.85	45.66	57.23	74.00	-16.77	peak
2 pp	5290.000	10.28	32.68	30.78	85.86	98.04	68.20	29.84	peak
3	5350.840	10.45	32.80	30.76	47.09	59.58	74.00	-14.42	peak

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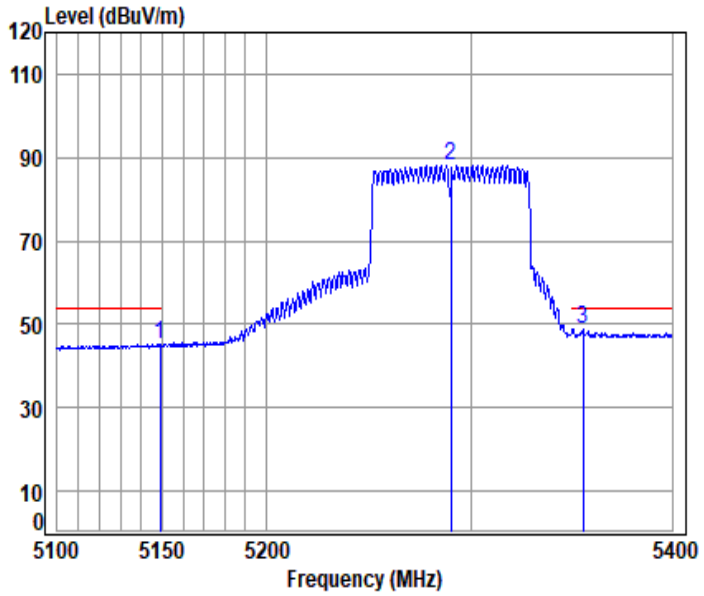

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.915	10.14	32.40	30.84	33.46	45.16	54.00	-8.84	Average
2	5290.000	10.28	32.68	30.78	76.02	88.20	------	------	Average
3 pp	5355.430	10.47	32.80	30.76	36.22	48.73	54.00	-5.27	Average

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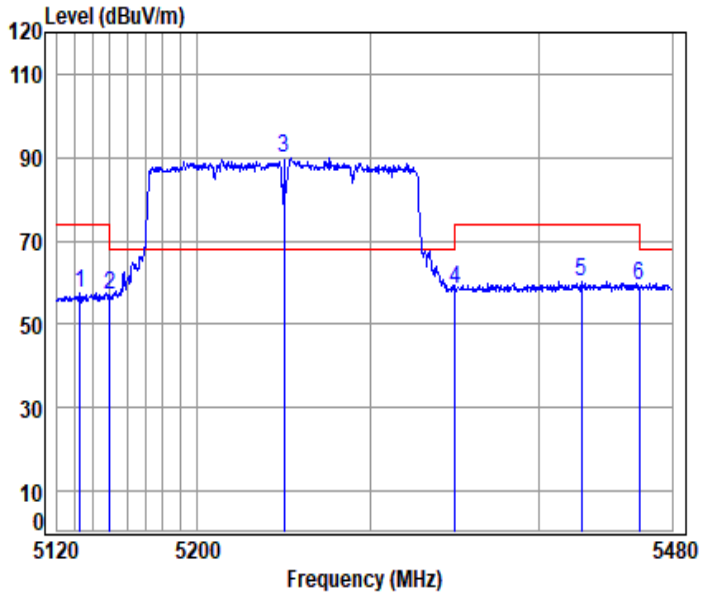
11ac_VHT(160M)_TX_CH_50_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5132.889	10.07	32.37	30.85	45.89	57.48	74.00	-16.52	peak
2	5150.000	10.14	32.40	30.84	45.16	56.86	74.00	-17.14	peak
3 pp	5250.000	10.31	32.60	30.80	77.95	90.06	74.00	16.06	peak
4	5350.000	10.45	32.80	30.76	46.01	58.50	68.20	-9.70	peak
5	5425.534	10.61	32.85	30.73	47.42	60.15	74.00	-13.85	peak
6	5460.000	10.60	32.90	30.72	46.41	59.19	74.00	-14.81	peak

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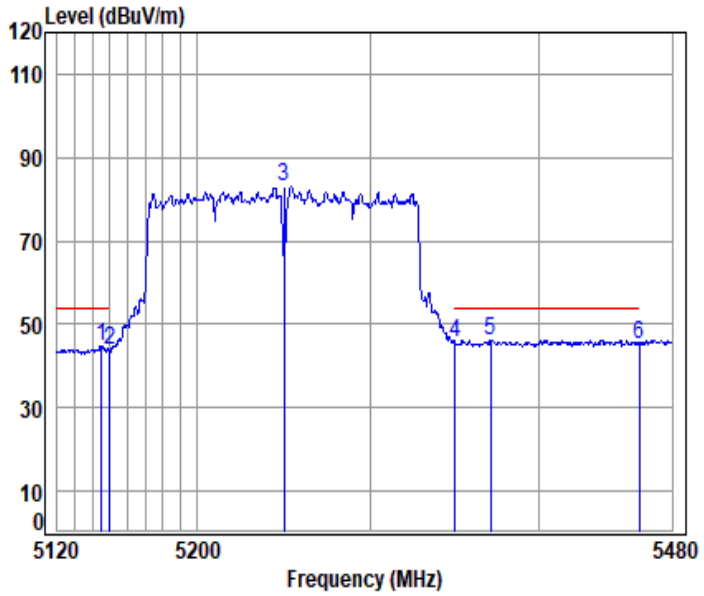
11ac_VHT(160M)_TX_CH_50_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.111	10.12	32.39	30.84	33.04	44.71	54.00	-9.29	Average
2	5150.000	10.14	32.40	30.84	32.01	43.71	54.00	-10.29	Average
3	5250.000	10.31	32.60	30.80	70.76	82.87	------	------	Average
4	5350.000	10.45	32.80	30.76	33.02	45.51	54.00	-8.49	Average
5 pp	5371.245	10.52	32.80	30.75	33.71	46.28	54.00	-7.72	Average
6	5460.000	10.60	32.90	30.72	32.27	45.05	54.00	-8.95	Average

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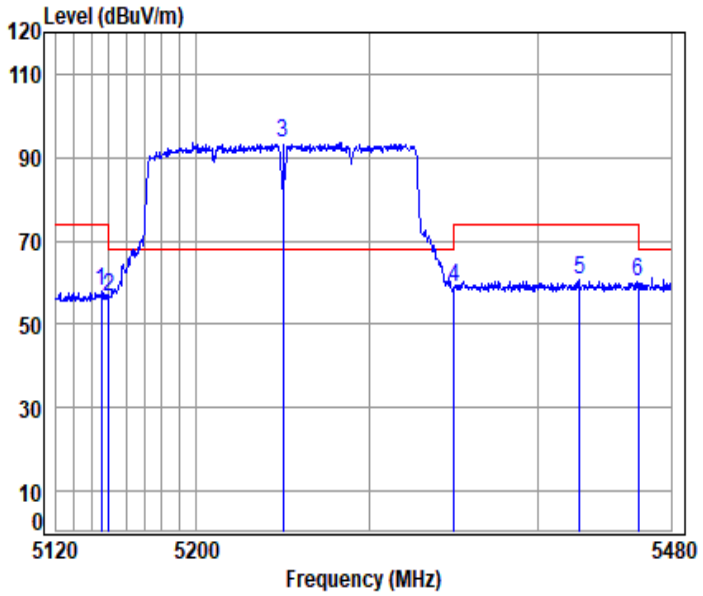
11ac_VHT(160M)_TX_CH_50_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.460	10.12	32.39	30.84	46.09	57.76	74.00	-16.24	peak
2	5150.000	10.14	32.40	30.84	44.92	56.62	68.20	-11.58	peak
3 pp	5250.000	10.31	32.60	30.80	81.45	93.56	68.20	25.36	peak
4	5350.000	10.45	32.80	30.76	46.52	59.01	68.20	-9.19	peak
5	5424.797	10.61	32.85	30.73	47.80	60.53	74.00	-13.47	peak
6	5460.000	10.60	32.90	30.72	47.25	60.03	68.20	-8.17	peak

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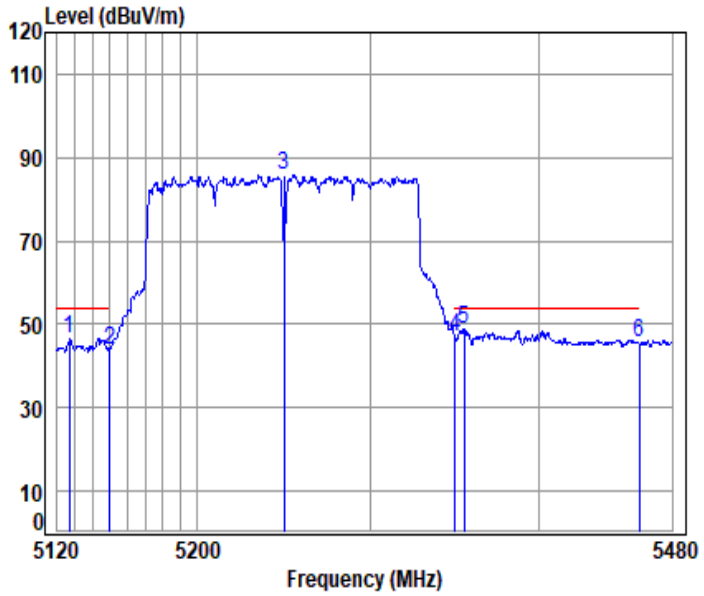
11ac_VHT(160M)_TX_CH_50_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5126.963	10.05	32.35	30.85	34.89	46.44	54.00	-7.56	Average
2	5150.000	10.14	32.40	30.84	32.14	43.84	54.00	-10.16	Average
3	5250.000	10.31	32.60	30.80	73.69	85.80	------	------	Average
4	5350.000	10.45	32.80	30.76	34.72	47.21	54.00	-6.79	Average
5 pp	5355.573	10.47	32.80	30.76	36.48	48.99	54.00	-5.01	Average
6	5460.000	10.60	32.90	30.72	32.81	45.59	54.00	-8.41	Average

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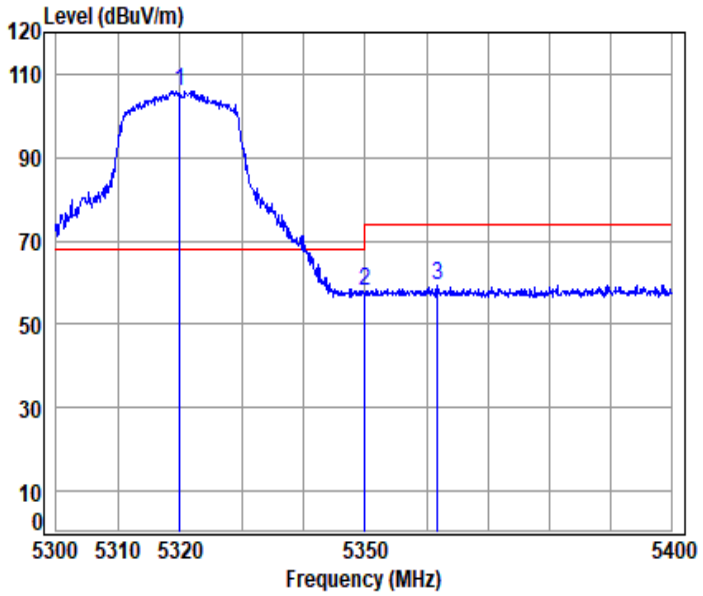
11ax_20M_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	93.71	106.03	68.20	37.83	peak
2	5350.020	10.45	32.80	30.76	45.31	57.80	74.00	-16.20	peak
3	5361.780	10.49	32.80	30.76	46.88	59.41	74.00	-14.59	peak

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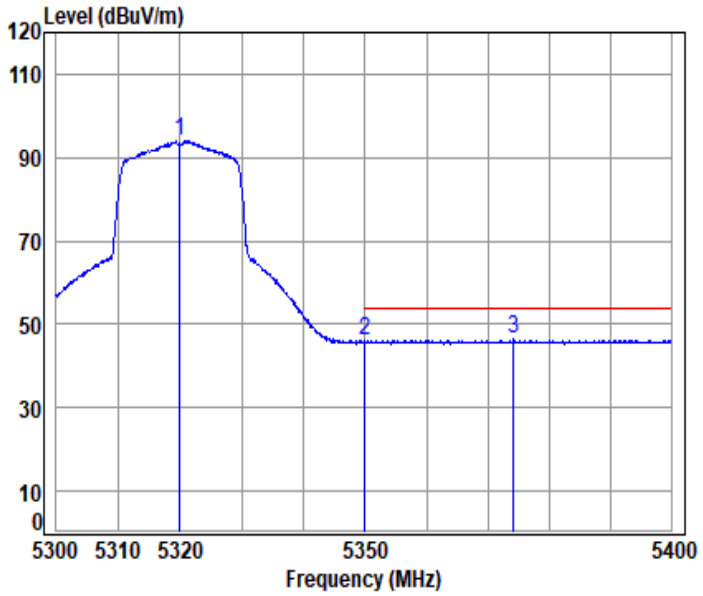
11ax_20M_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	81.56	93.88	------	------	Average
2	5350.020	10.45	32.80	30.76	33.38	45.87	54.00	-8.13	Average
3 pp	5374.222	10.53	32.80	30.75	33.75	46.33	54.00	-7.67	Average

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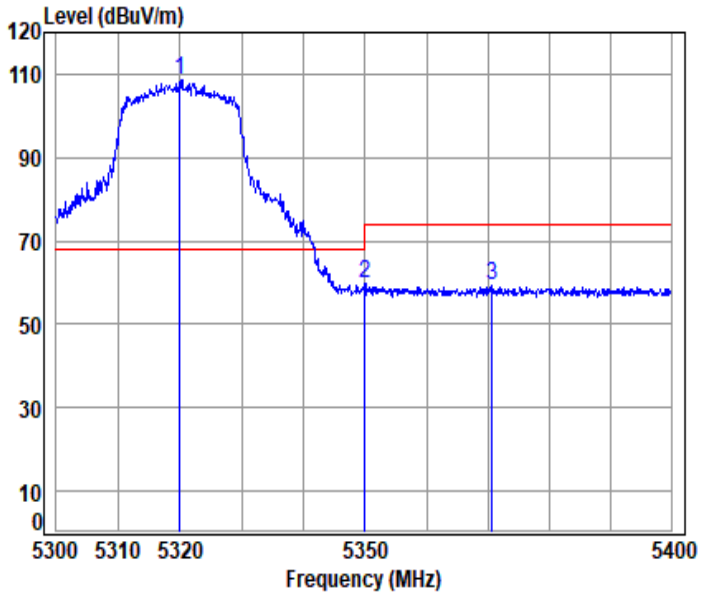
11ax_20M_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.28	108.60	68.20	40.40	peak
2	5350.020	10.45	32.80	30.76	47.17	59.66	74.00	-14.34	peak
3	5370.707	10.52	32.80	30.75	46.52	59.09	74.00	-14.91	peak

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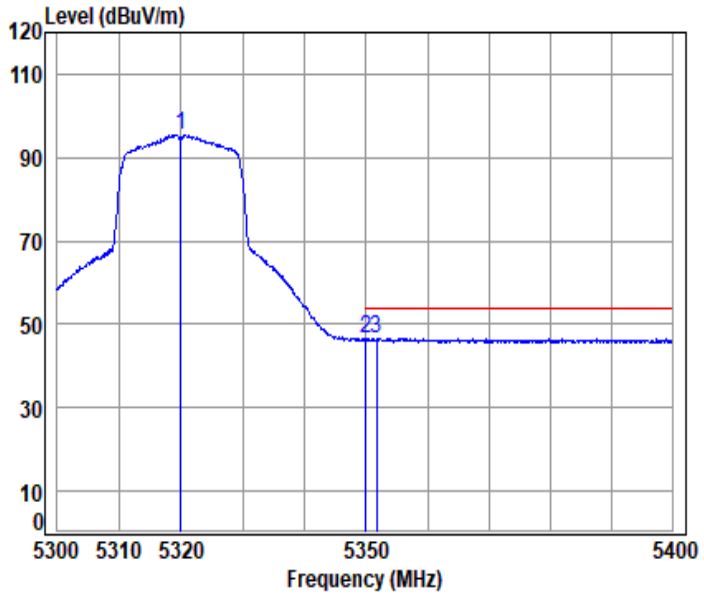

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	83.17	95.49	------	------	Average
2	5350.020	10.45	32.80	30.76	33.96	46.45	54.00	-7.55	Average
3 pp	5351.667	10.46	32.80	30.76	34.20	46.70	54.00	-7.30	Average

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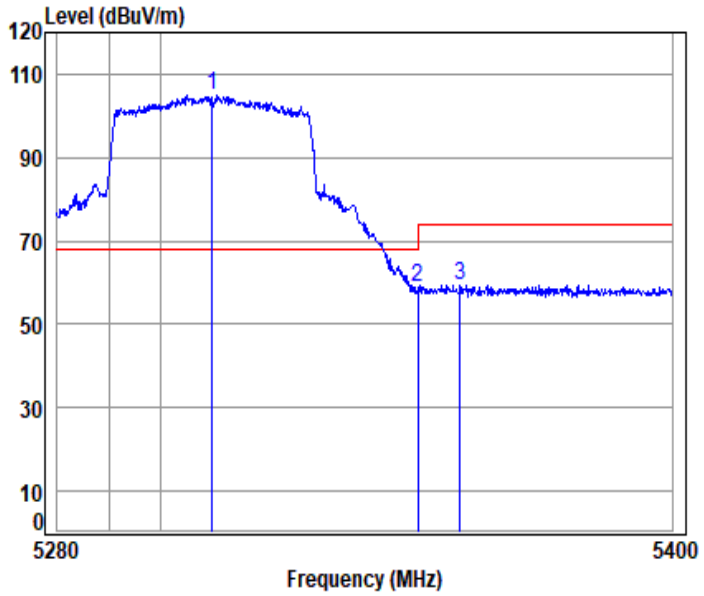

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	92.68	104.93	68.20	36.73	peak
2	5350.020	10.45	32.80	30.76	46.15	58.64	74.00	-15.36	peak
3	5358.295	10.48	32.80	30.76	46.99	59.51	74.00	-14.49	peak

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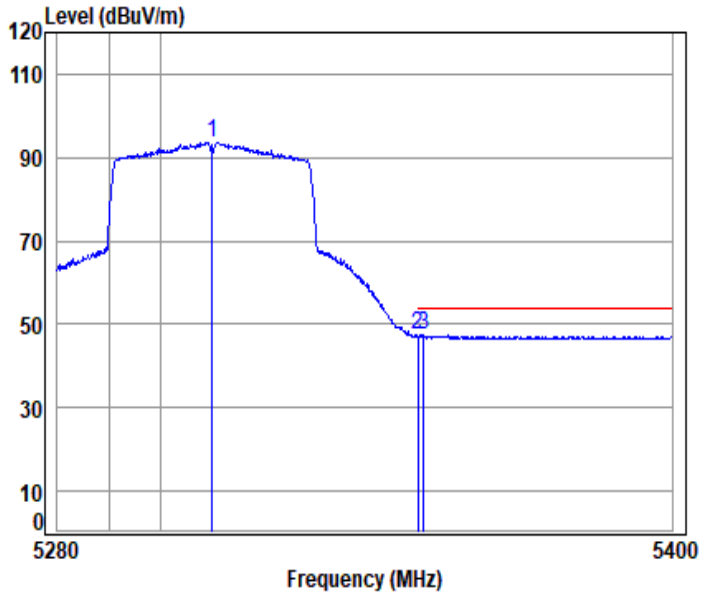

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	81.48	93.73	------	------	Average
2	5350.020	10.45	32.80	30.76	34.79	47.28	54.00	-6.72	Average
3 pp	5351.195	10.45	32.80	30.76	34.89	47.38	54.00	-6.62	Average

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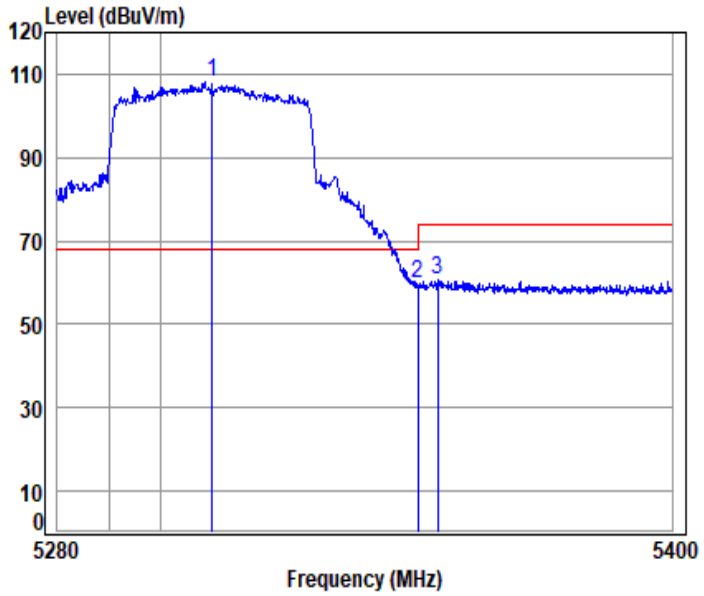

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	95.74	107.99	68.20	39.79	peak
2	5350.020	10.45	32.80	30.76	47.20	59.69	74.00	-14.31	peak
3	5353.962	10.46	32.80	30.76	48.19	60.69	74.00	-13.31	peak

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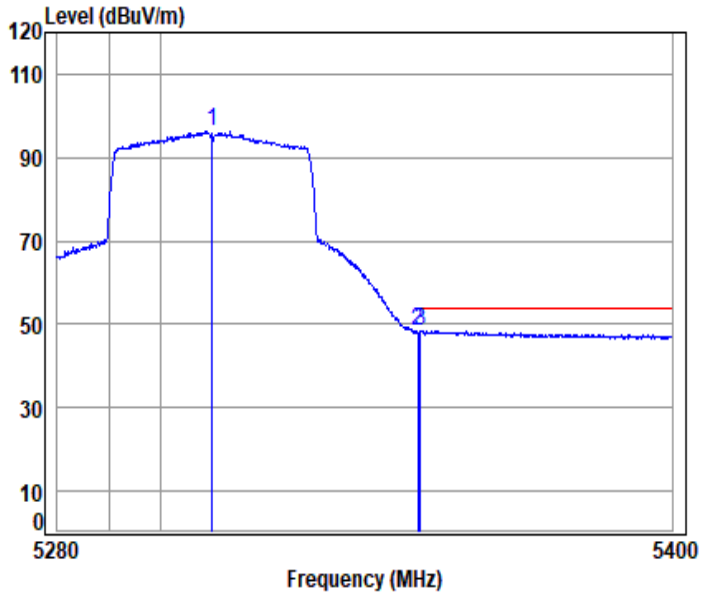
11ax_40M_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	83.92	96.17	------	------	Average
2	5350.020	10.45	32.80	30.76	35.74	48.23	54.00	-5.77	Average
3 pp	5350.594	10.45	32.80	30.76	36.06	48.55	54.00	-5.45	Average

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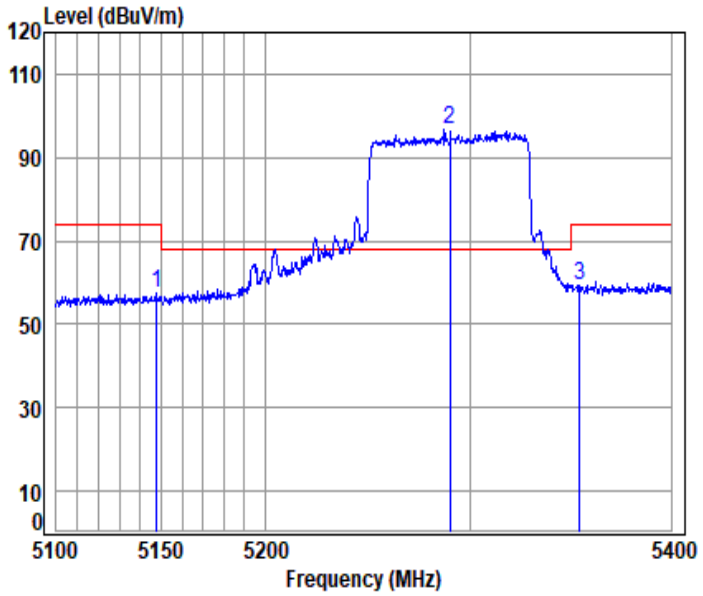
11ax_80M_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.032	10.13	32.40	30.84	45.64	57.33	74.00	-16.67	peak
2 pp	5290.000	10.28	32.68	30.78	84.60	96.78	68.20	28.58	peak
3	5354.512	10.47	32.80	30.76	46.98	59.49	74.00	-14.51	peak

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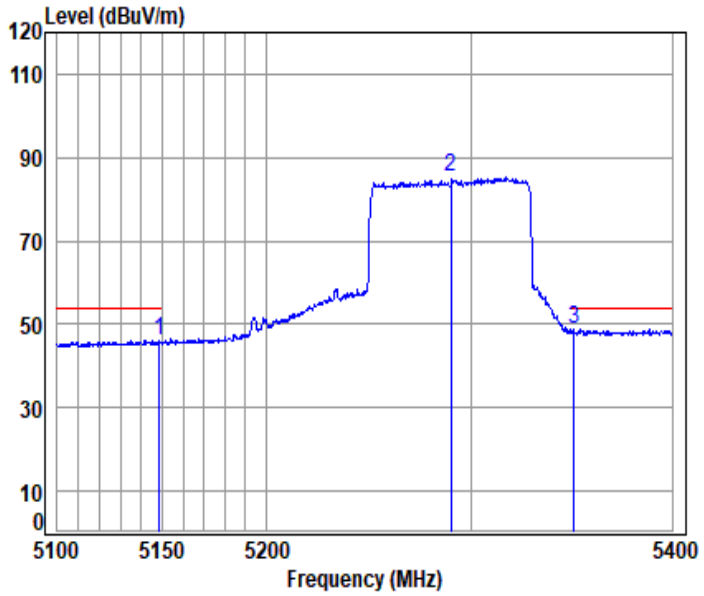
11ax_80M_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.621	10.13	32.40	30.84	34.43	46.12	54.00	-7.88	Average
2	5290.000	10.28	32.68	30.78	72.99	85.17	------	------	Average
3 pp	5351.146	10.45	32.80	30.76	36.41	48.90	54.00	-5.10	Average

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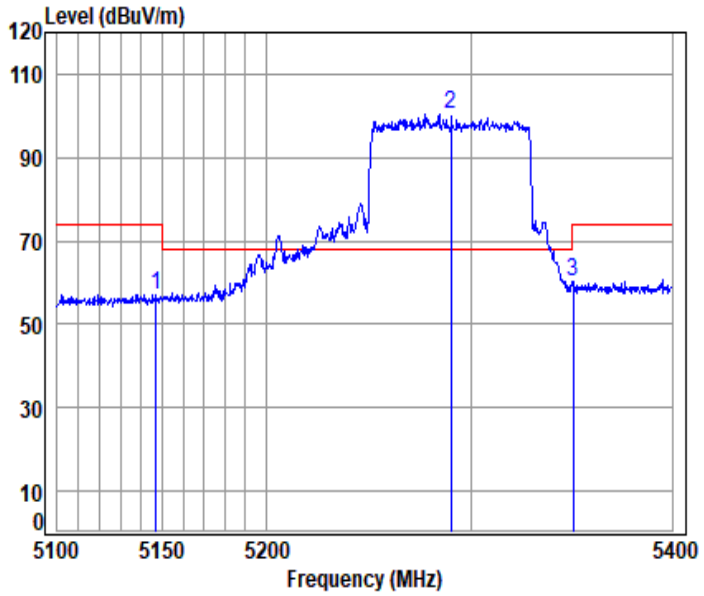
11ax_80M_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.149	10.13	32.39	30.84	45.57	57.25	74.00	-16.75	peak
2 pp	5290.000	10.28	32.68	30.78	88.37	100.55	68.20	32.35	peak
3	5350.535	10.45	32.80	30.76	47.92	60.41	74.00	-13.59	peak

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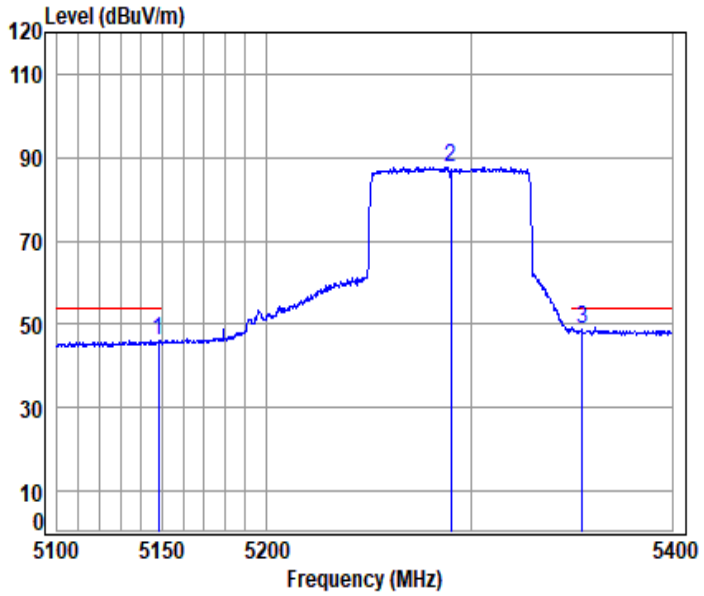
11ax_80M_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.326	10.13	32.40	30.84	34.26	45.95	54.00	-8.05	Average
2	5290.000	10.28	32.68	30.78	75.58	87.76	------	------	Average
3 pp	5355.124	10.47	32.80	30.76	36.47	48.98	54.00	-5.02	Average

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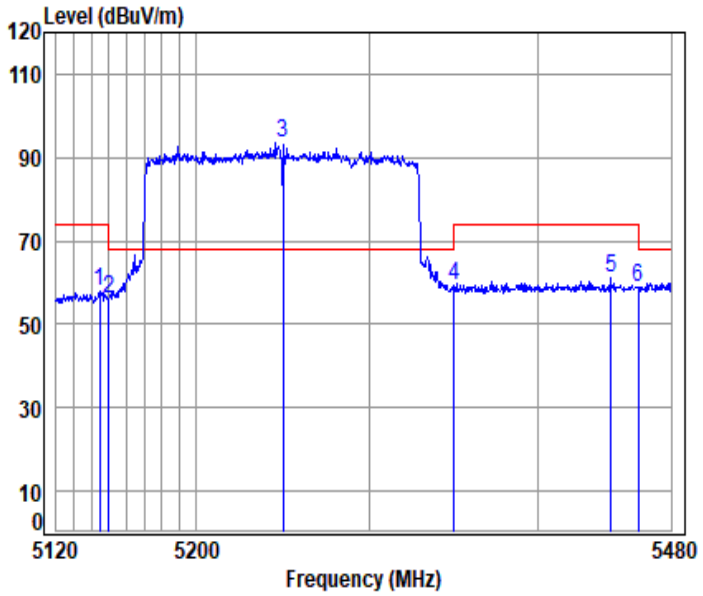
11ax_160M_TX_CH_50_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.761	10.12	32.39	30.84	46.07	57.74	74.00	-16.26	peak
2	5150.000	10.14	32.40	30.84	44.63	56.33	74.00	-17.67	peak
3 pp	5250.000	10.31	32.60	30.80	81.40	93.51	68.20	25.31	peak
4	5350.000	10.45	32.80	30.76	47.01	59.50	74.00	-14.50	peak
5	5443.629	10.60	32.89	30.72	48.26	61.03	74.00	-12.97	peak
6	5460.000	10.60	32.90	30.72	45.98	58.76	74.00	-15.24	peak

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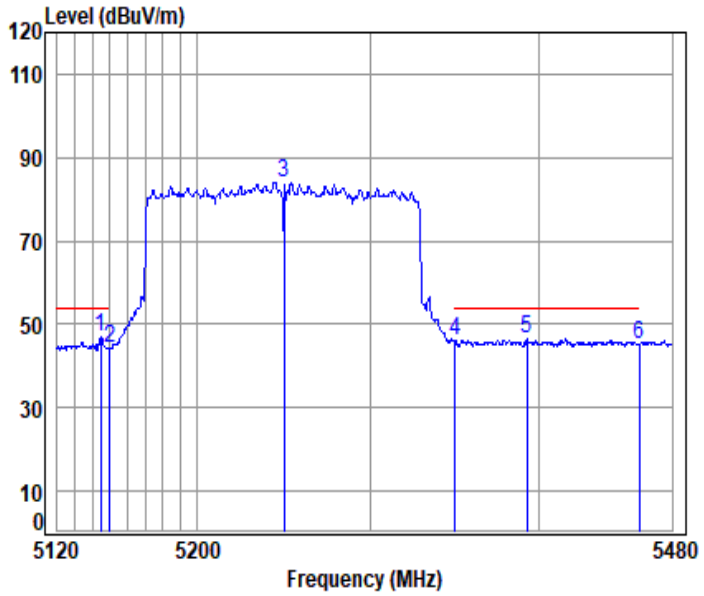

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5144.761	10.12	32.39	30.84	35.41	47.08	54.00	-6.92	Average
2	5150.000	10.14	32.40	30.84	32.47	44.17	54.00	-9.83	Average
3	5250.000	10.31	32.60	30.80	72.00	84.11	------	------	Average
4	5350.000	10.45	32.80	30.76	33.62	46.11	54.00	-7.89	Average
5	5392.822	10.60	32.80	30.74	33.73	46.39	54.00	-7.61	Average
6	5460.000	10.60	32.90	30.72	32.53	45.31	54.00	-8.69	Average

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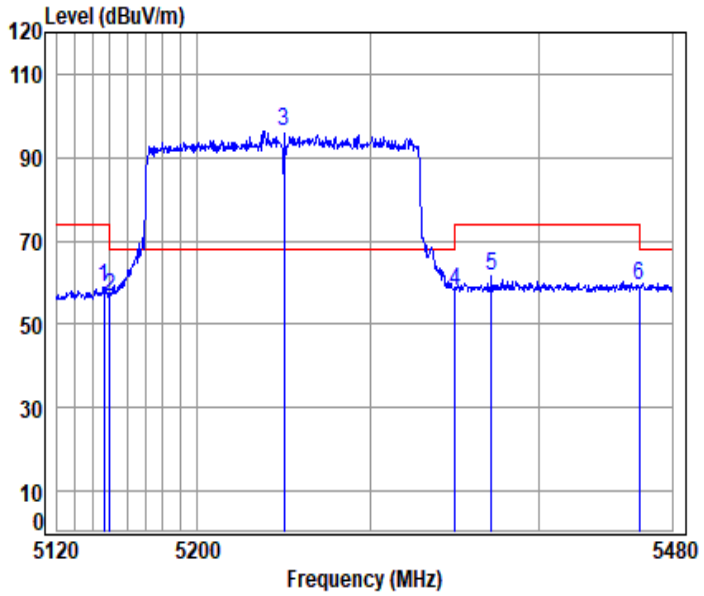
11ax_160M_TX_CH_50_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.509	10.13	32.39	30.84	47.12	58.80	74.00	-15.20	peak
2	5150.000	10.14	32.40	30.84	45.03	56.73	74.00	-17.27	peak
3 pp	5250.000	10.31	32.60	30.80	84.39	96.50	68.20	28.30	peak
4	5350.000	10.45	32.80	30.76	45.40	57.89	74.00	-16.11	peak
5	5371.609	10.52	32.80	30.75	48.92	61.49	74.00	-12.51	peak
6	5460.000	10.60	32.90	30.72	46.41	59.19	74.00	-14.81	peak

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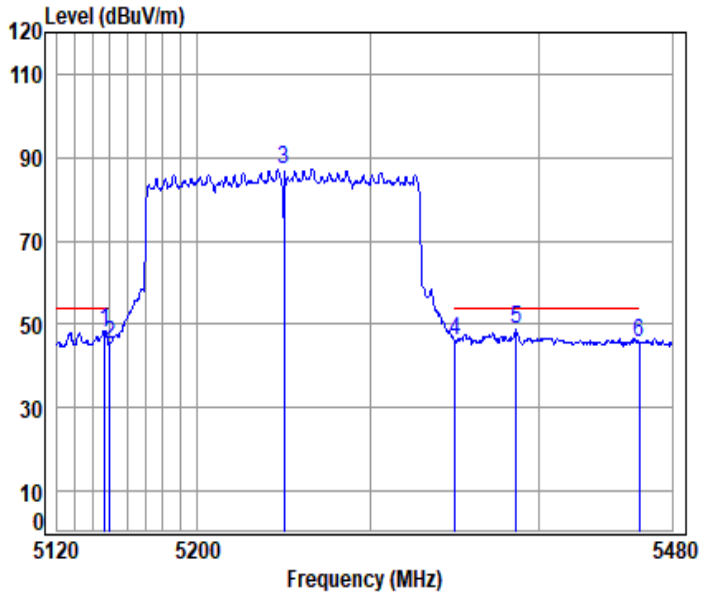
11ax_160M_TX_CH_50_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.209	10.13	32.39	30.84	36.63	48.31	54.00	-5.69	Average
2	5150.000	10.14	32.40	30.84	33.39	45.09	54.00	-8.91	Average
3	5250.000	10.31	32.60	30.80	75.12	87.23	------	------	Average
4	5350.000	10.45	32.80	30.76	33.74	46.23	54.00	-7.77	Average
5 pp	5386.229	10.57	32.80	30.75	36.15	48.77	54.00	-5.23	Average
6	5460.000	10.60	32.90	30.72	32.94	45.72	54.00	-8.28	Average

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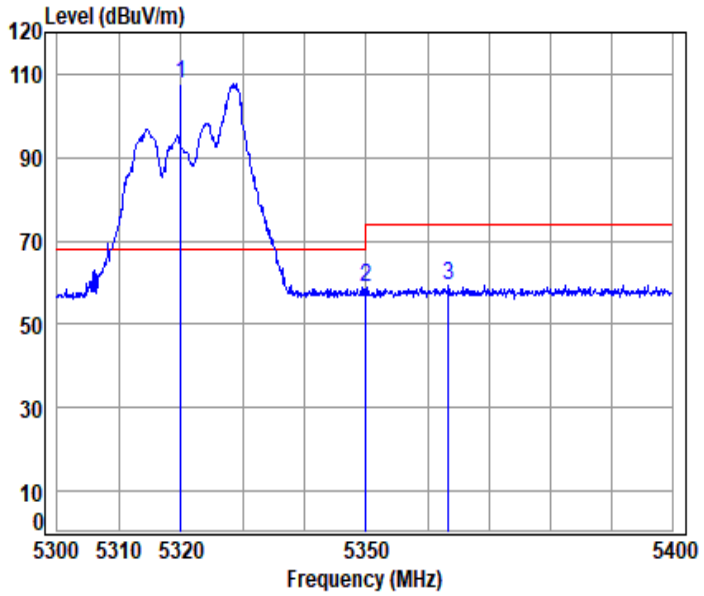
11ax_20M_Partial_RU26_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.52	107.84	68.20	39.64	peak
2	5350.020	10.45	32.80	30.76	46.60	59.09	74.00	-14.91	peak
3	5363.484	10.50	32.80	30.75	46.73	59.28	74.00	-14.72	peak

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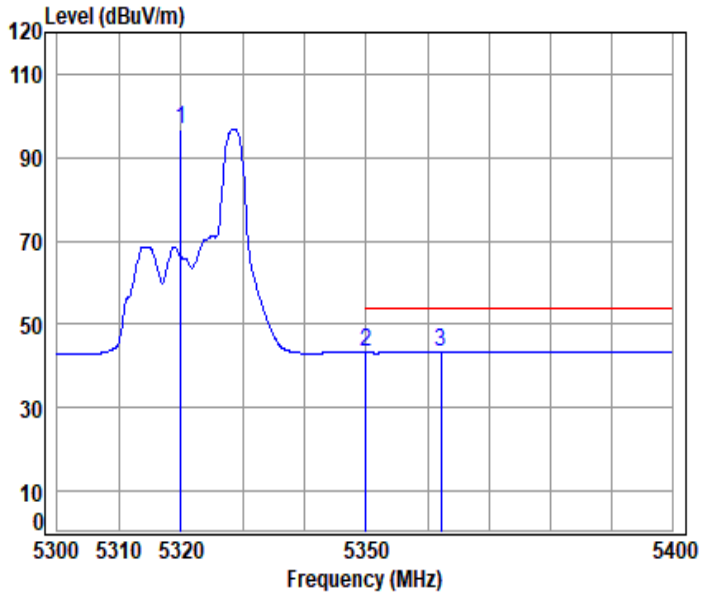
11ax_20M_Partial_RU26_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	84.60	96.92	------	------	Average
2	5350.020	10.45	32.80	30.76	30.70	43.19	54.00	-10.81	Average
3 pp	5362.181	10.49	32.80	30.76	31.00	43.53	54.00	-10.47	Average

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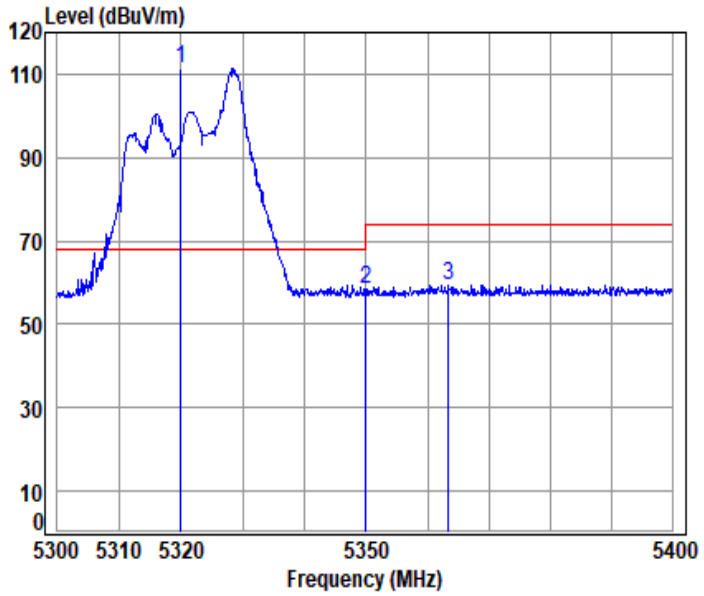
11ax_20M_Partial_RU26_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	99.24	111.56	68.20	43.36	peak
2	5350.020	10.45	32.80	30.76	45.78	58.27	74.00	-15.73	peak
3	5363.484	10.50	32.80	30.75	46.83	59.38	74.00	-14.62	peak

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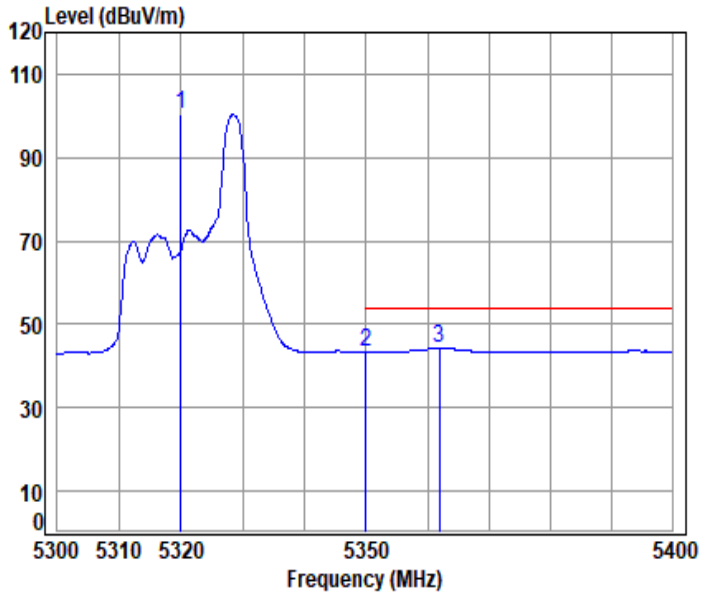
11ax_20M_Partial_RU26_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	87.90	100.22	------	------	Average
2	5350.020	10.45	32.80	30.76	30.89	43.38	54.00	-10.62	Average
3 pp	5361.880	10.49	32.80	30.76	31.73	44.26	54.00	-9.74	Average

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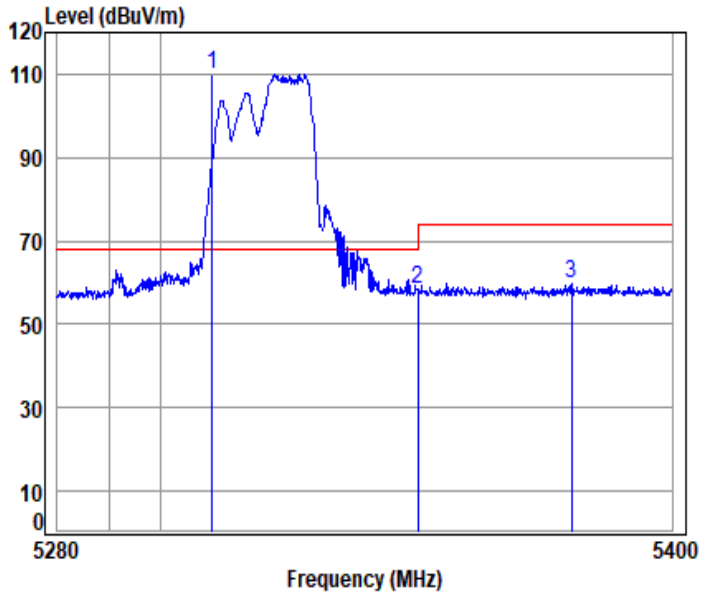
11ax_40M_Partial_RU106_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	97.91	110.16	68.20	41.96	peak
2	5350.020	10.45	32.80	30.76	46.13	58.62	74.00	-15.38	peak
3	5380.135	10.55	32.80	30.75	47.15	59.75	74.00	-14.25	peak

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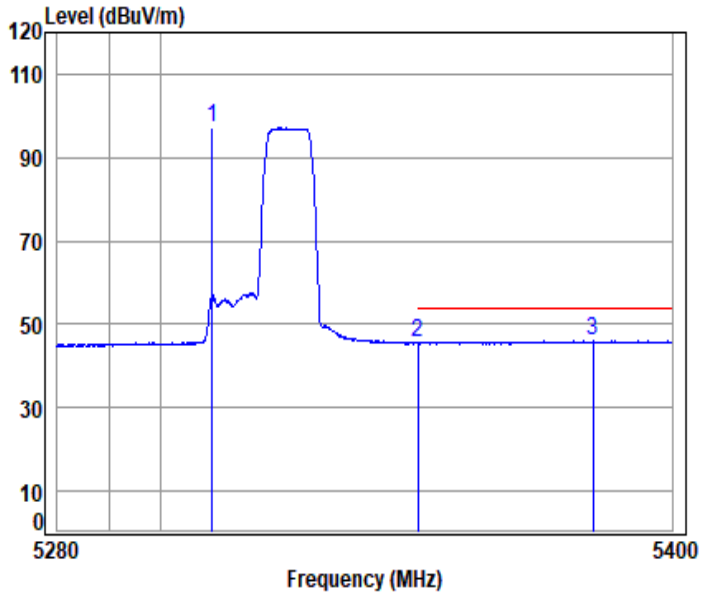
11ax_40M_Partial_RU106_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	84.74	96.99	------	------	Average
2	5350.020	10.45	32.80	30.76	33.21	45.70	54.00	-8.30	Average
3 pp	5384.368	10.57	32.80	30.75	33.38	46.00	54.00	-8.00	Average

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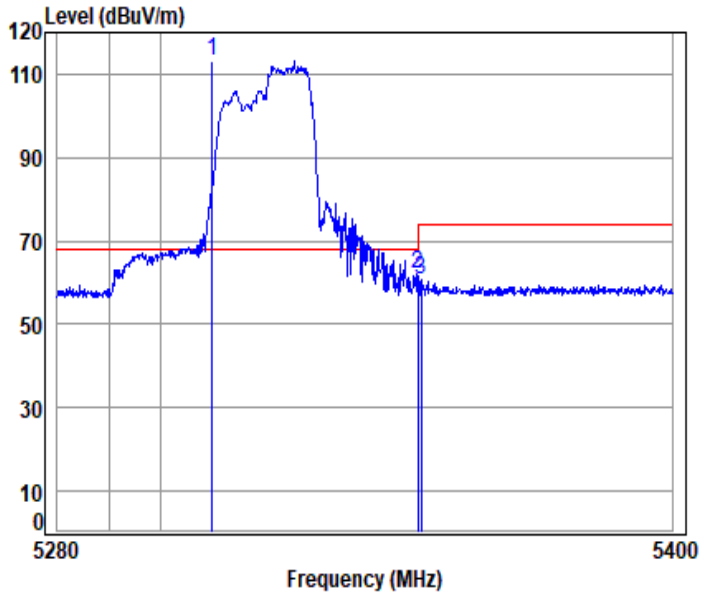
11ax_40M_Partial_RU106_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	100.84	113.09	68.20	44.89	peak
2	5350.020	10.45	32.80	30.76	49.61	62.10	74.00	-11.90	peak
3	5350.714	10.45	32.80	30.76	48.23	60.72	74.00	-13.28	peak

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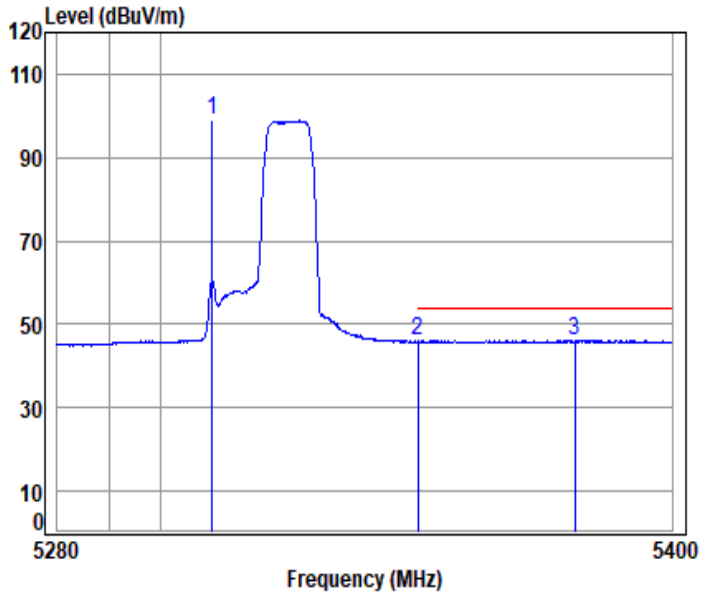

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5310 Band edge
: 5GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	86.54	98.79	------	------	Average
2	5350.020	10.45	32.80	30.76	33.50	45.99	54.00	-8.01	Average
3 pp	5380.860	10.55	32.80	30.75	33.65	46.25	54.00	-7.75	Average

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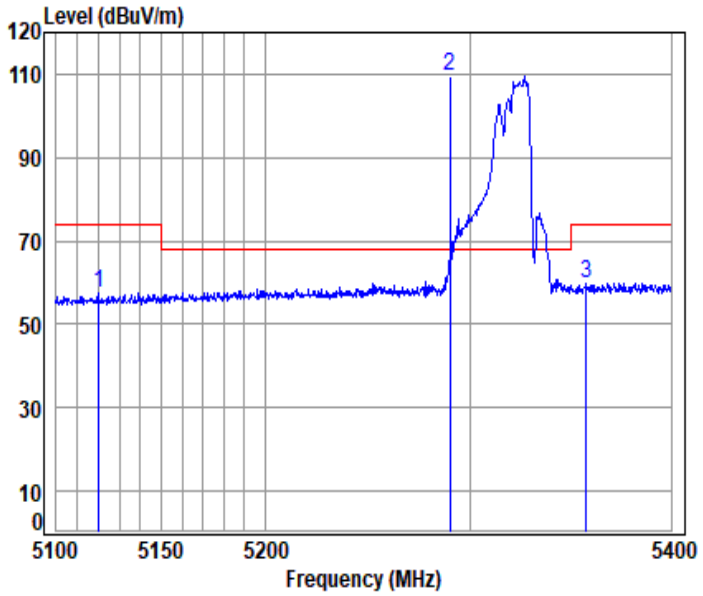
11ax_80M_Partial_RU106_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5120.154	10.03	32.34	30.85	46.19	57.71	74.00	-16.29	peak
2 pp	5290.000	10.28	32.68	30.78	97.15	109.33	68.20	41.13	peak
3	5357.573	10.48	32.80	30.76	47.18	59.70	74.00	-14.30	peak

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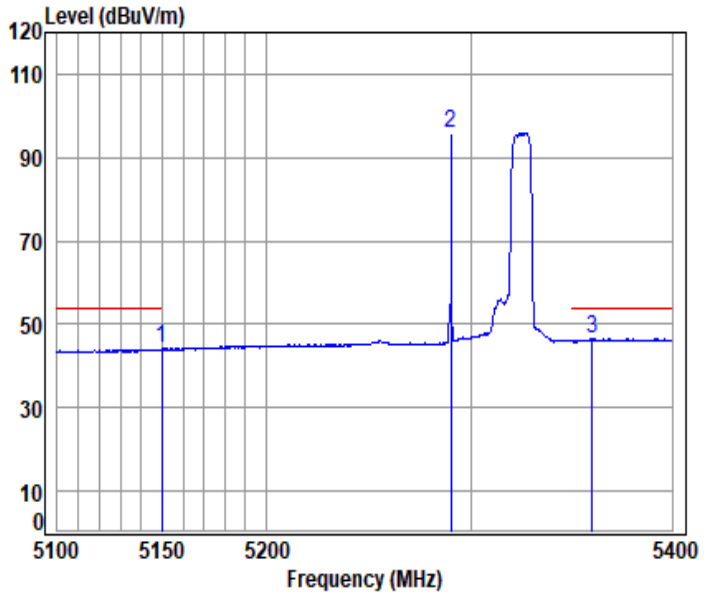
11ax_80M_Partial_RU106_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.798	10.14	32.40	30.84	32.39	44.09	54.00	-9.91	Average
2	5290.000	10.28	32.68	30.78	83.62	95.80	------	------	Average
3 pp	5360.023	10.48	32.80	30.76	33.89	46.41	54.00	-7.59	Average

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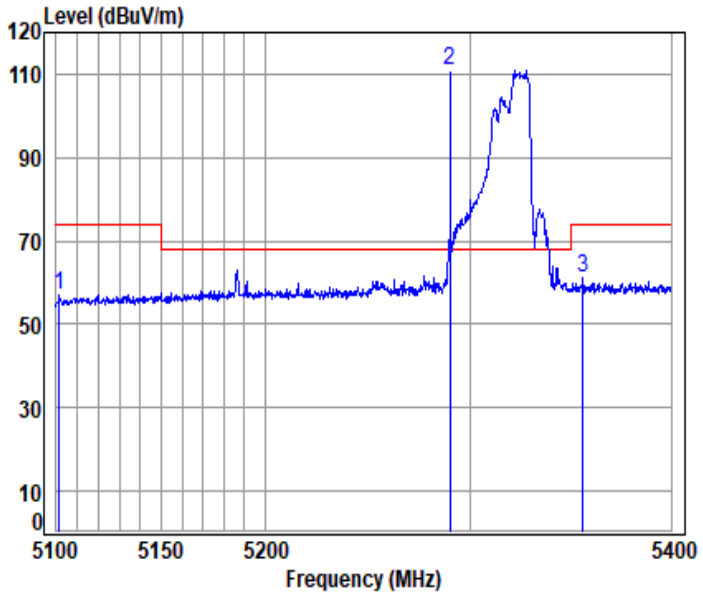
11ax_80M_Partial_RU106_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5101.458	9.96	32.30	30.86	45.84	57.24	74.00	-16.76	peak
2 pp	5290.000	10.28	32.68	30.78	98.85	111.03	68.20	42.83	peak
3	5356.042	10.47	32.80	30.76	48.49	61.00	74.00	-13.00	peak

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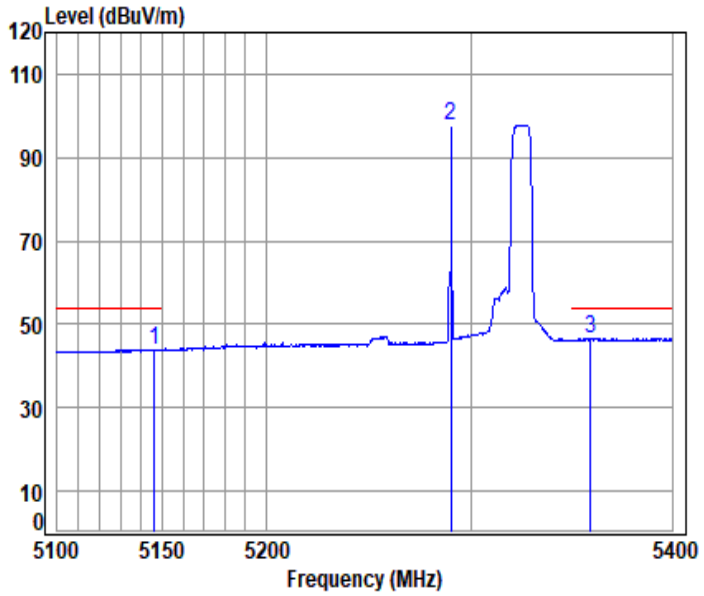
11ax_80M_Partial_RU106_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5290 Band edge
: 5GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.267	10.13	32.39	30.84	32.34	44.02	54.00	-9.98	Average
2	5290.000	10.28	32.68	30.78	85.63	97.81	------	------	Average
3 pp	5359.104	10.48	32.80	30.76	34.15	46.67	54.00	-7.33	Average

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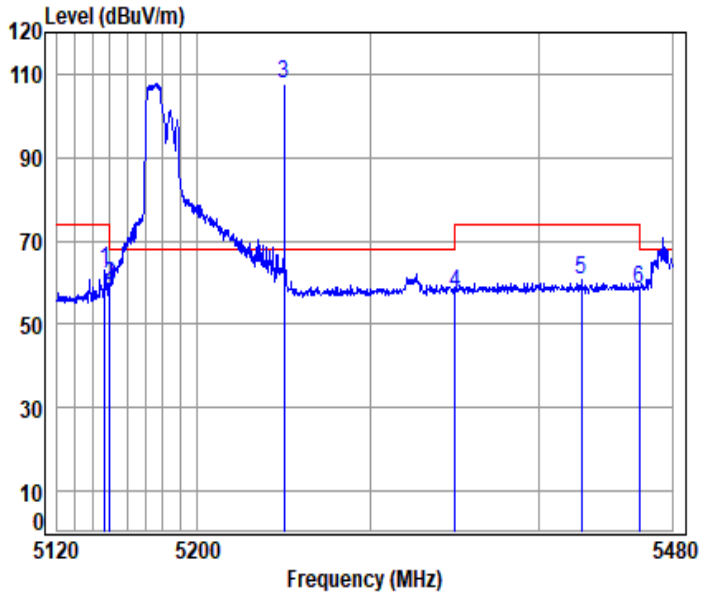
11ax_160M_Partial_RU106_TX_CH_50_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.859	10.13	32.39	30.84	51.44	63.12	74.00	-10.88	peak
2	5149.980	10.14	32.40	30.84	47.59	59.29	74.00	-14.71	peak
3 pp	5250.000	10.31	32.60	30.80	95.39	107.50	68.20	39.30	peak
4	5350.200	10.45	32.80	30.76	44.90	57.39	74.00	-16.61	peak
5	5425.534	10.61	32.85	30.73	47.82	60.55	74.00	-13.45	peak
6	5459.980	10.60	32.90	30.72	45.59	58.37	74.00	-15.63	peak

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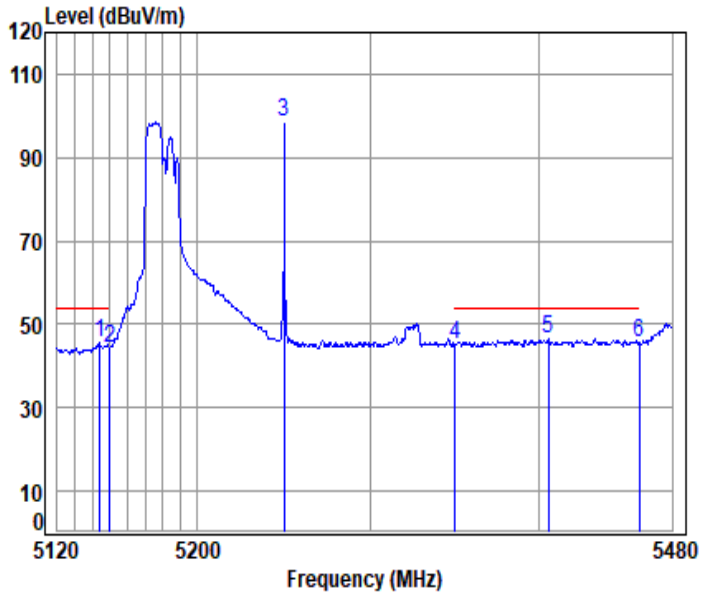
11ax_160M_Partial_RU106_TX_CH_50_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.062	10.12	32.39	30.84	33.82	45.49	54.00	-8.51	Average
2	5150.000	10.14	32.40	30.84	32.72	44.42	54.00	-9.58	Average
3	5250.000	10.31	32.60	30.80	86.30	98.41	------	------	Average
4	5350.000	10.45	32.80	30.76	32.63	45.12	54.00	-8.88	Average
5 pp	5405.663	10.62	32.81	30.74	33.66	46.35	54.00	-7.65	Average
6	5460.000	10.60	32.90	30.72	32.75	45.53	54.00	-8.47	Average

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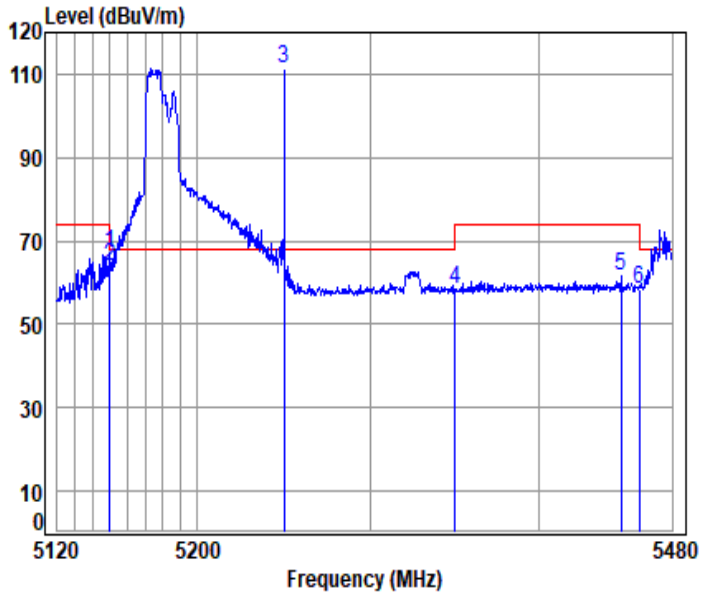
11ax_160M_Partial_RU106_TX_CH_50_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.658	10.14	32.40	30.84	55.46	67.16	74.00	-6.84	peak
2	5149.980	10.14	32.40	30.84	52.05	63.75	74.00	-10.25	peak
3 pp	5250.000	10.31	32.60	30.80	99.07	111.18	68.20	42.98	peak
4	5350.200	10.45	32.80	30.76	45.75	58.24	74.00	-15.76	peak
5	5449.180	10.60	32.90	30.72	48.72	61.50	74.00	-12.50	peak
6	5459.980	10.60	32.90	30.72	45.54	58.32	74.00	-15.68	peak

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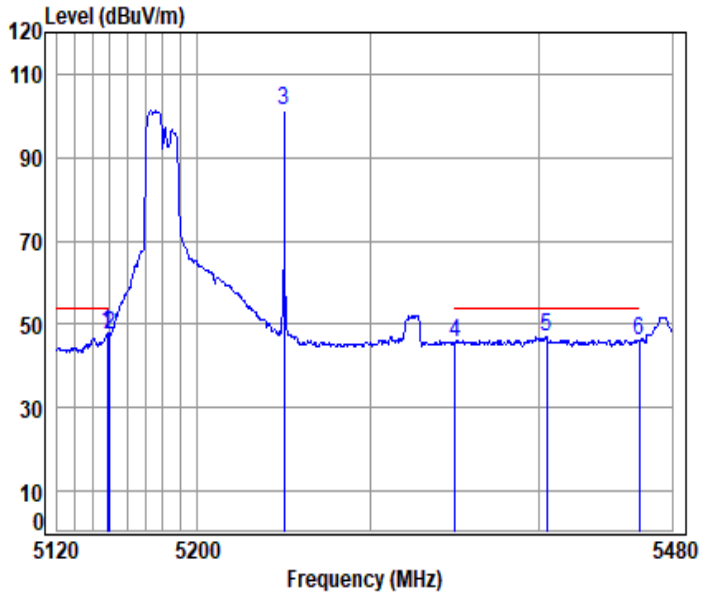
11ax_160M_Partial_RU106_TX_CH_50_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5250 Band edge
: 5GWIFI 11AX160_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.608	10.13	32.40	30.84	36.26	47.95	54.00	-6.05	Average
2	5150.000	10.14	32.40	30.84	35.62	47.32	54.00	-6.68	Average
3	5250.000	10.31	32.60	30.80	89.06	101.17	------	------	Average
4	5350.000	10.45	32.80	30.76	33.08	45.57	54.00	-8.43	Average
5	5404.561	10.62	32.81	30.74	34.20	46.89	54.00	-7.11	Average
6	5460.000	10.60	32.90	30.72	33.09	45.87	54.00	-8.13	Average

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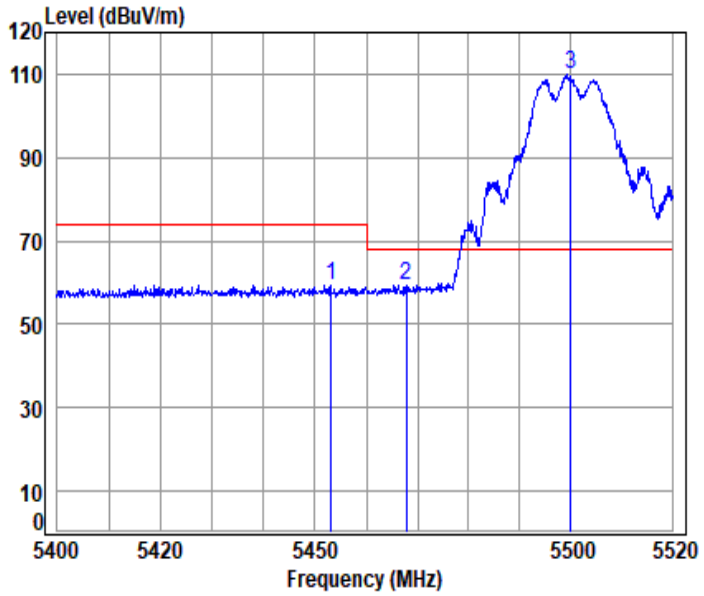
11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5453.074	10.60	32.90	30.72	46.55	59.33	74.00	-14.67	peak
2	5467.836	10.59	32.90	30.71	46.70	59.48	68.20	-8.72	peak
3 pp	5500.000	10.58	32.90	30.70	96.98	109.76	68.20	41.56	peak

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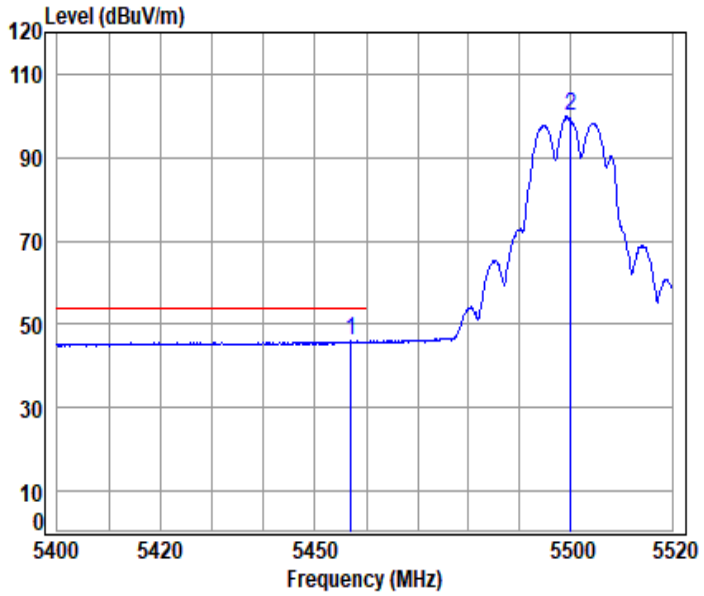

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5457.031	10.60	32.90	30.72	33.10	45.88	54.00	-8.12	Average
2	5500.000	10.58	32.90	30.70	87.02	99.80	------	------	Average

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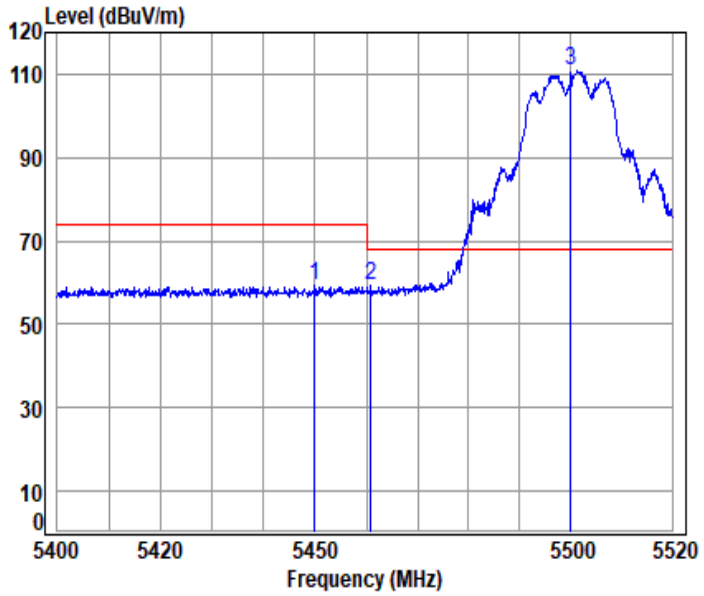
11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5449.959	10.60	32.90	30.72	46.73	59.51	74.00	-14.49	peak
2	5460.871	10.60	32.90	30.72	46.53	59.31	68.20	-8.89	peak
3 pp	5500.000	10.58	32.90	30.70	97.93	110.71	68.20	42.51	peak

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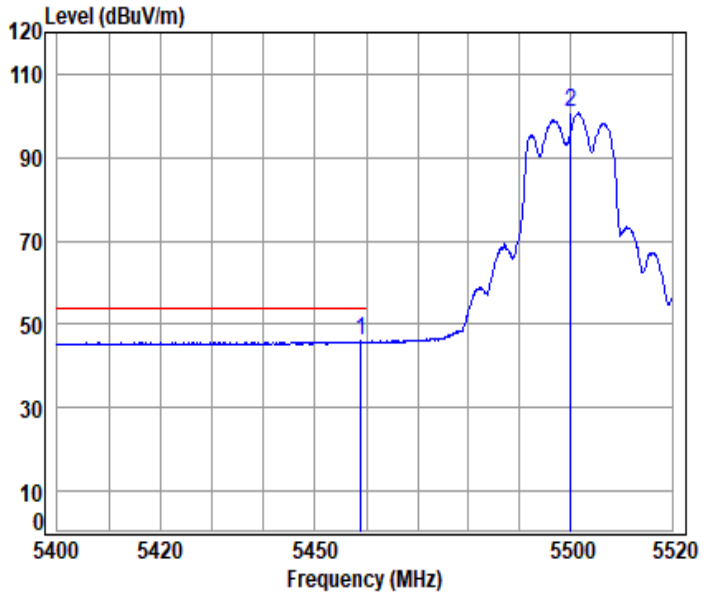
11a_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.950	10.60	32.90	30.72	33.17	45.95	54.00	-8.05	Average
2	5500.000	10.58	32.90	30.70	87.84	100.62	------	------	Average

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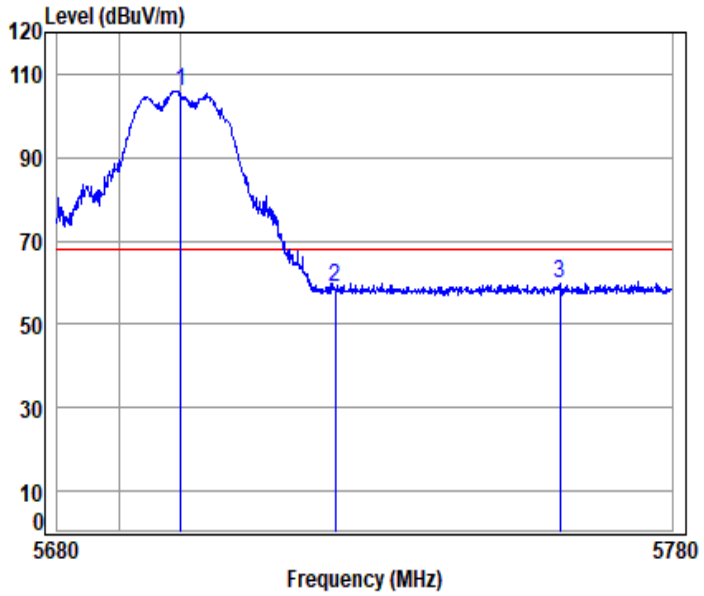
11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	92.89	106.03	68.20	37.83	peak
2	5725.000	10.68	33.25	30.61	45.59	58.91	68.20	-9.29	peak
3	5761.670	10.84	33.32	30.60	46.09	59.65	68.20	-8.55	peak

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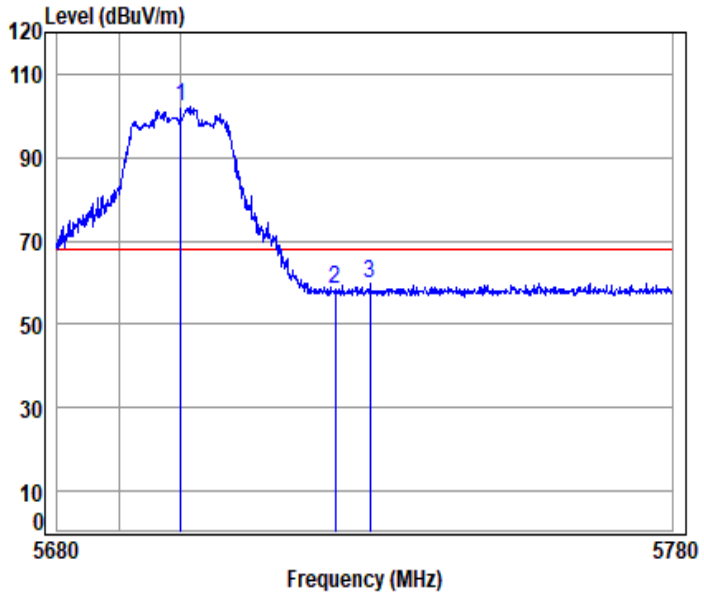
11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	88.93	102.07	68.20	33.87	peak
2	5725.000	10.68	33.25	30.61	45.20	58.52	68.20	-9.68	peak
3	5730.682	10.70	33.26	30.61	46.36	59.71	68.20	-8.49	peak

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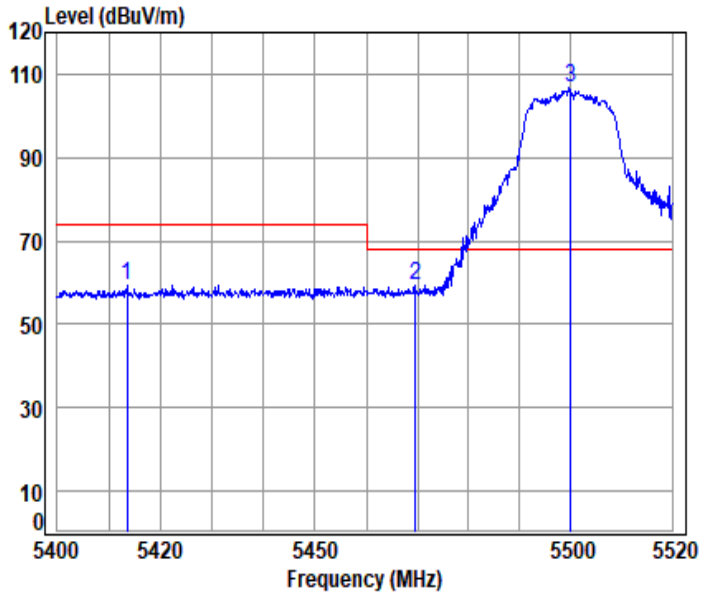
11n_HT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5413.547	10.61	32.83	30.73	46.76	59.47	74.00	-14.53	peak
2	5469.639	10.59	32.90	30.71	46.44	59.22	68.20	-8.98	peak
3 pp	5500.000	10.58	32.90	30.70	93.86	106.64	68.20	38.44	peak

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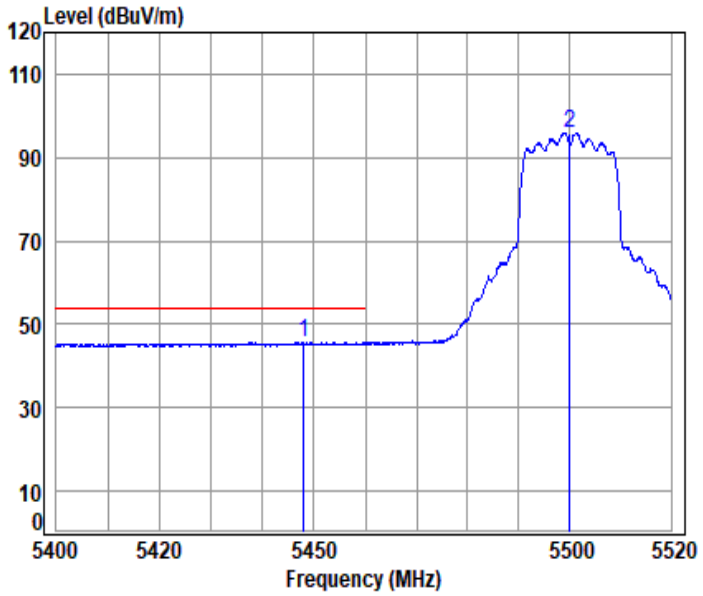
11n_HT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5448.043	10.60	32.90	30.72	32.83	45.61	54.00	-8.39	Average
2	5500.000	10.58	32.90	30.70	83.21	95.99	------	------	Average

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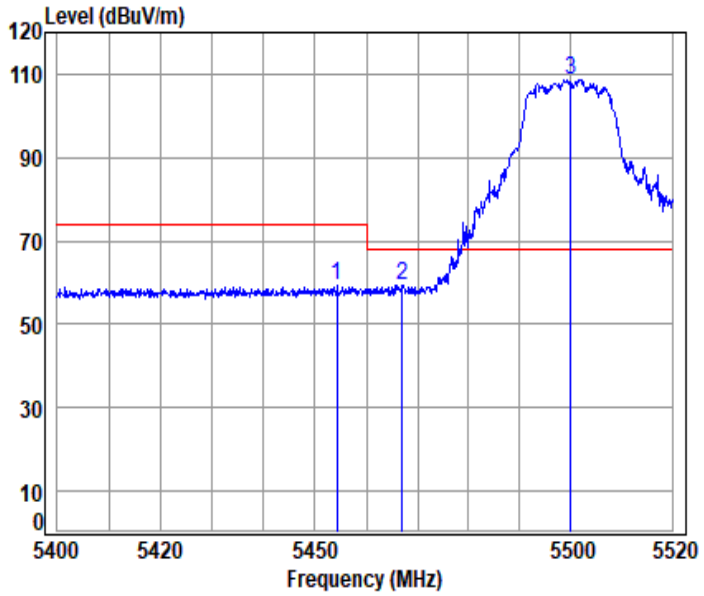
11n_HT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5454.273	10.60	32.90	30.72	46.41	59.19	74.00	-14.81	peak
2	5466.995	10.59	32.90	30.71	46.65	59.43	68.20	-8.77	peak
3 pp	5500.000	10.58	32.90	30.70	96.01	108.79	68.20	40.59	peak

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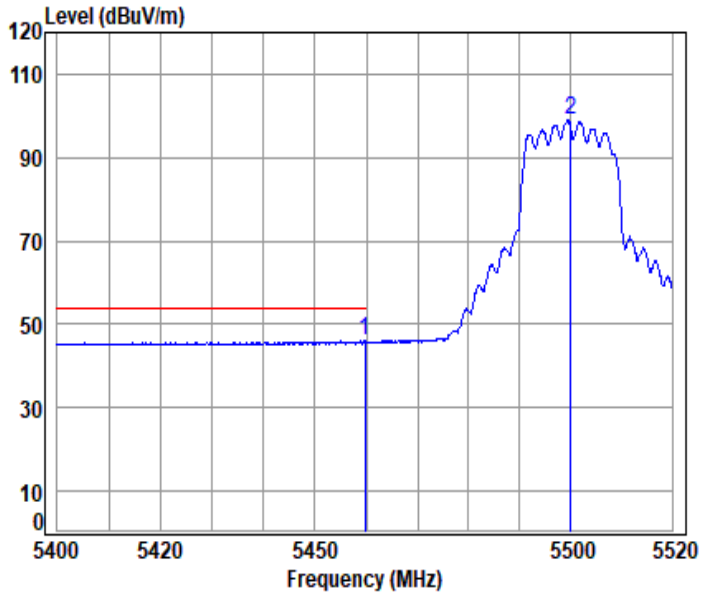
11n_HT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.791	10.60	32.90	30.72	33.25	46.03	54.00	-7.97	Average
2	5500.000	10.58	32.90	30.70	86.25	99.03	------	------	Average

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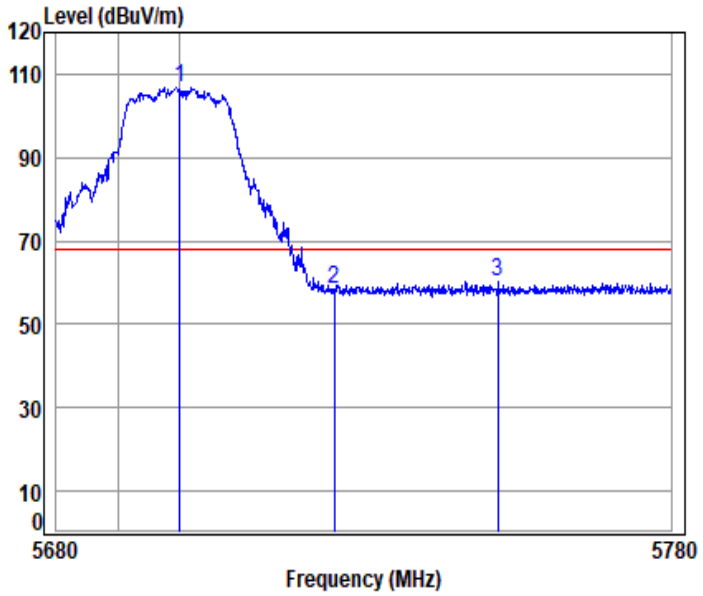
11n_HT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	93.71	106.85	68.20	38.65	peak
2	5725.000	10.68	33.25	30.61	45.18	58.50	68.20	-9.70	peak
3	5751.724	10.80	33.30	30.60	46.60	60.10	68.20	-8.10	peak

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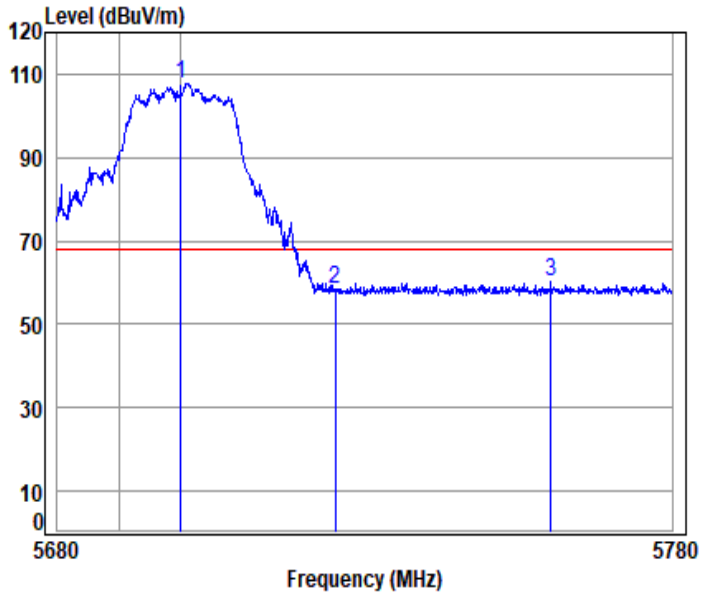
11n_HT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	94.76	107.90	68.20	39.70	peak
2	5725.000	10.68	33.25	30.61	45.23	58.55	68.20	-9.65	peak
3	5760.162	10.84	33.32	30.60	46.76	60.32	68.20	-7.88	peak

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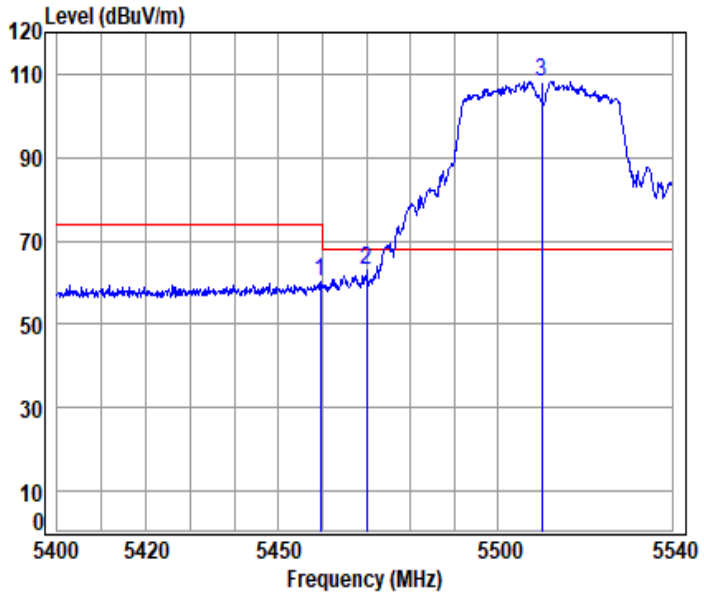
11n_HT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.481	10.60	32.90	30.72	47.28	60.06	74.00	-13.94	peak
2	5469.972	10.59	32.90	30.71	50.02	62.80	68.20	-5.40	peak
3 pp	5510.000	10.56	32.90	30.70	95.52	108.28	68.20	40.08	peak

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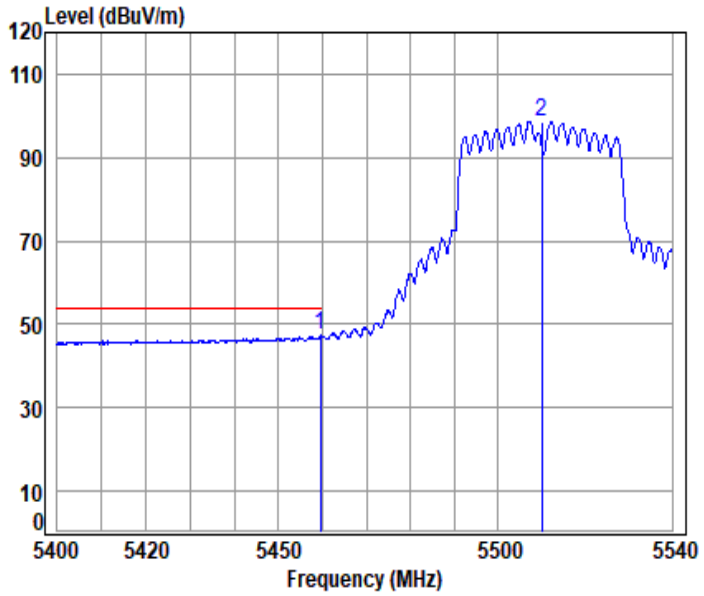
11n_HT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.481	10.60	32.90	30.72	34.53	47.31	54.00	-6.69	Average
2	5510.000	10.56	32.90	30.70	85.95	98.71	------	------	Average

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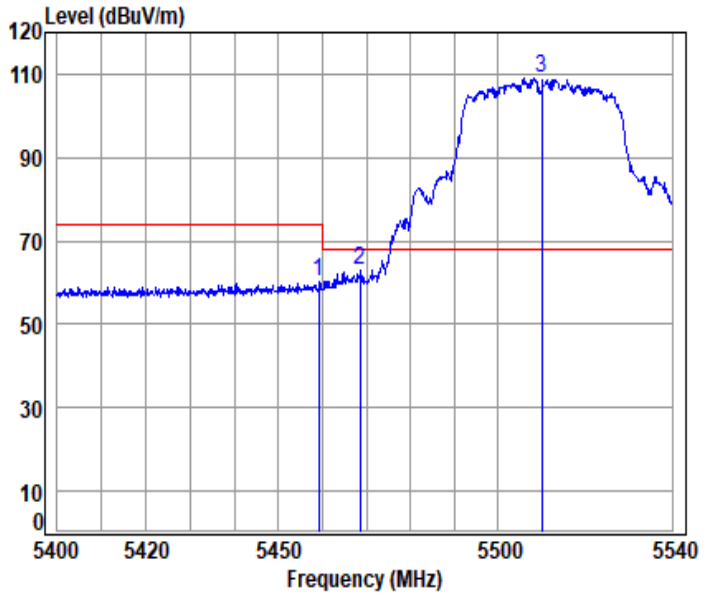
11n_HT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11N40 MIMO
: 勾ht

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.202	10.60	32.90	30.72	47.36	60.14	74.00	-13.86	peak
2	5468.572	10.59	32.90	30.71	50.28	63.06	68.20	-5.14	peak
3 pp	5510.000	10.56	32.90	30.70	96.23	108.99	68.20	40.79	peak

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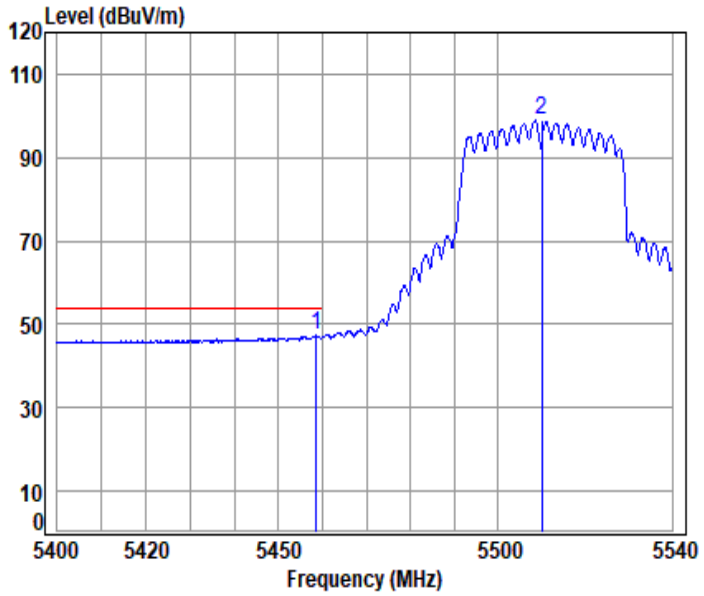
11n_HT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11N40 MIMO
: 勾ht

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.503	10.60	32.90	30.72	34.65	47.43	54.00	-6.57	Average
2	5510.000	10.56	32.90	30.70	86.02	98.78	------	------	Average

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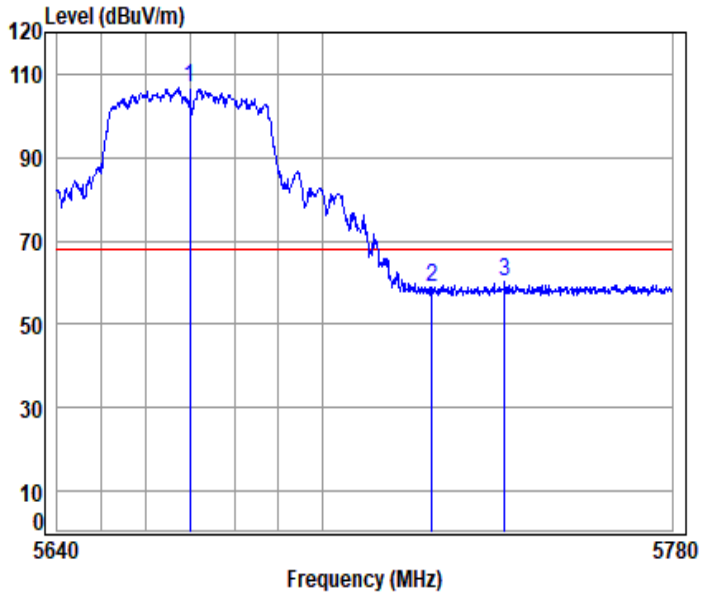
11n_HT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5670 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	93.71	106.74	68.20	38.54	peak
2	5725.000	10.68	33.25	30.61	45.71	59.03	68.20	-9.17	peak
3	5741.580	10.75	33.28	30.60	46.73	60.16	68.20	-8.04	peak

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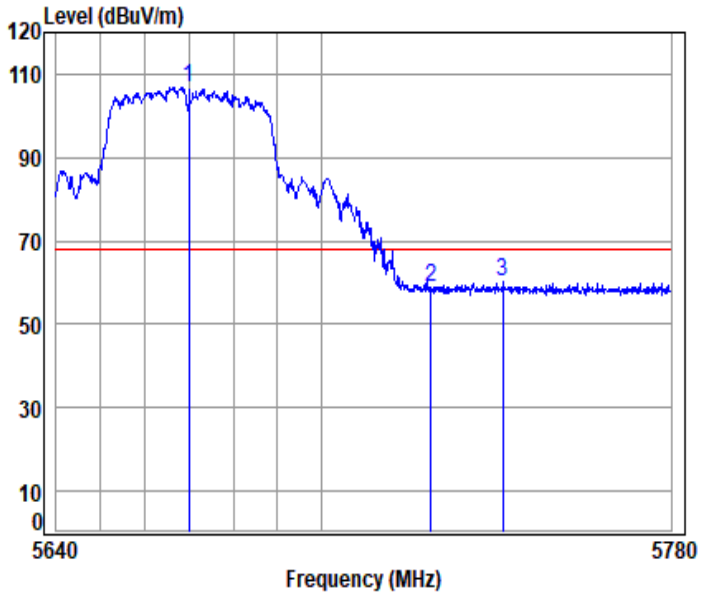
11n_HT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5670 Band edge
: 5GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	93.70	106.73	68.20	38.53	peak
2	5725.000	10.68	33.25	30.61	45.45	58.77	68.20	-9.43	peak
3	5741.298	10.75	33.28	30.60	46.68	60.11	68.20	-8.09	peak

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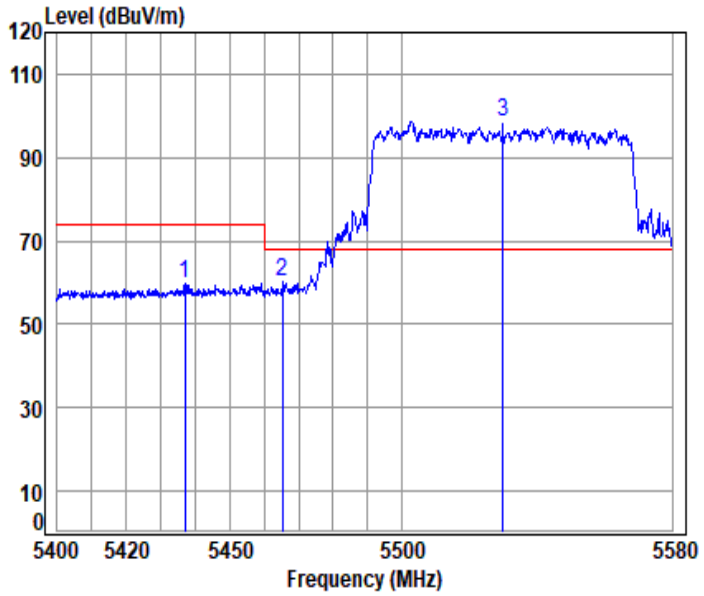
11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5436.956	10.61	32.87	30.73	47.16	59.91	74.00	-14.09	peak
2	5465.196	10.59	32.90	30.71	47.55	60.33	68.20	-7.87	peak
3 pp	5530.000	10.53	32.90	30.69	85.76	98.50	68.20	30.30	peak

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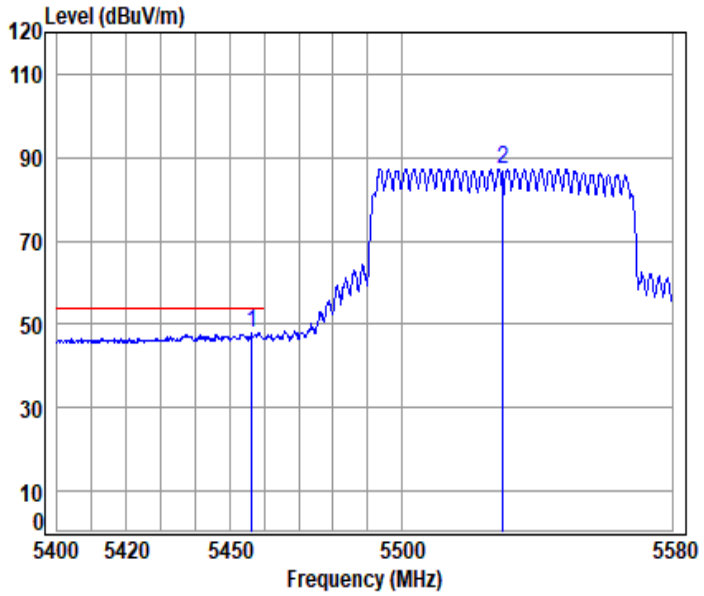
11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5456.244	10.60	32.90	30.72	35.18	47.96	54.00	-6.04	Average
2	5530.000	10.53	32.90	30.69	74.61	87.35	------	------	Average

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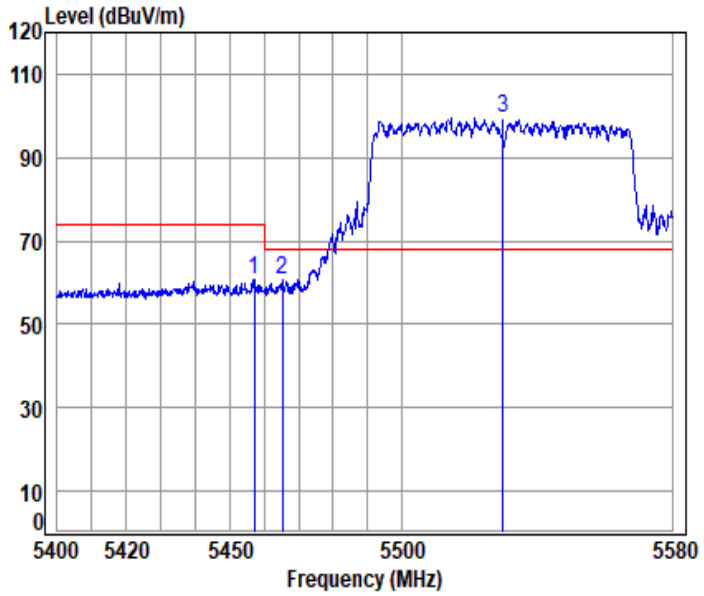
11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.138	10.60	32.90	30.72	47.94	60.72	74.00	-13.28	peak
2	5465.196	10.59	32.90	30.71	48.13	60.91	68.20	-7.29	peak
3 pp	5530.000	10.53	32.90	30.69	86.59	99.33	68.20	31.13	peak

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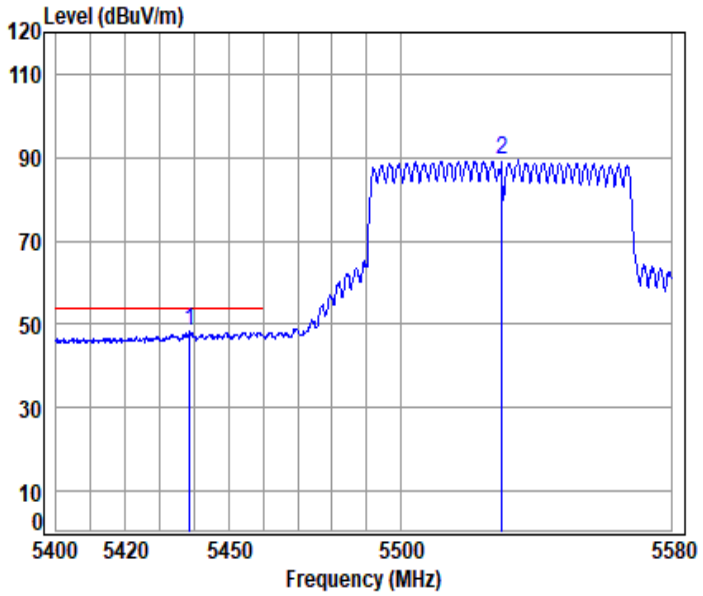
11ac_VHT(80M)_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5438.560	10.60	32.88	30.72	35.50	48.26	54.00	-5.74	Average
2	5530.000	10.53	32.90	30.69	76.60	89.34	------	------	Average

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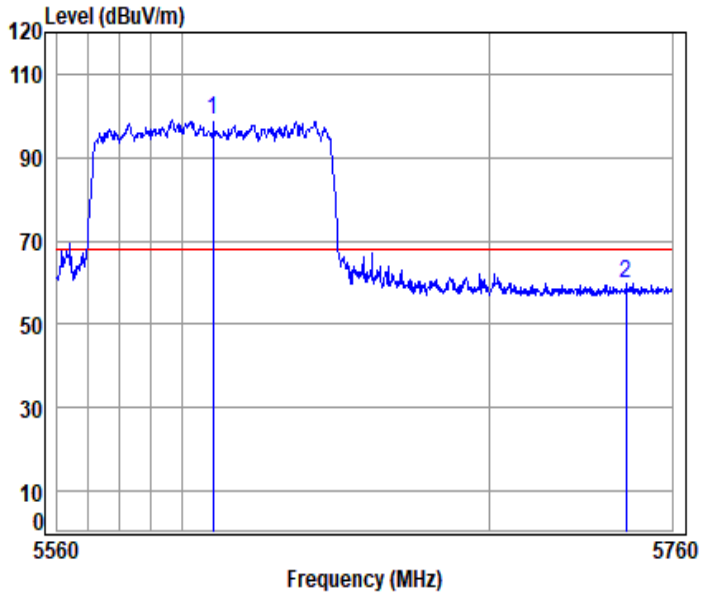
11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5610 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	86.01	98.80	68.20	30.60	peak
2	5744.753	10.77	33.29	30.60	46.32	59.78	68.20	-8.42	peak

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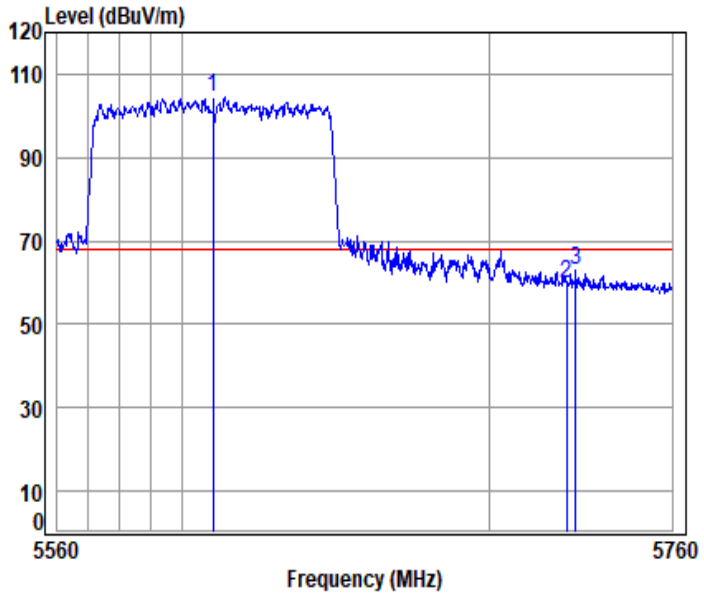
11ac_VHT(80M)_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5610 Band edge
: 5GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	91.51	104.30	68.20	36.10	peak
2	5725.095	10.68	33.25	30.61	46.61	59.93	68.20	-8.27	Peak
3	5728.130	10.69	33.26	30.61	49.83	63.17	68.20	-5.03	peak

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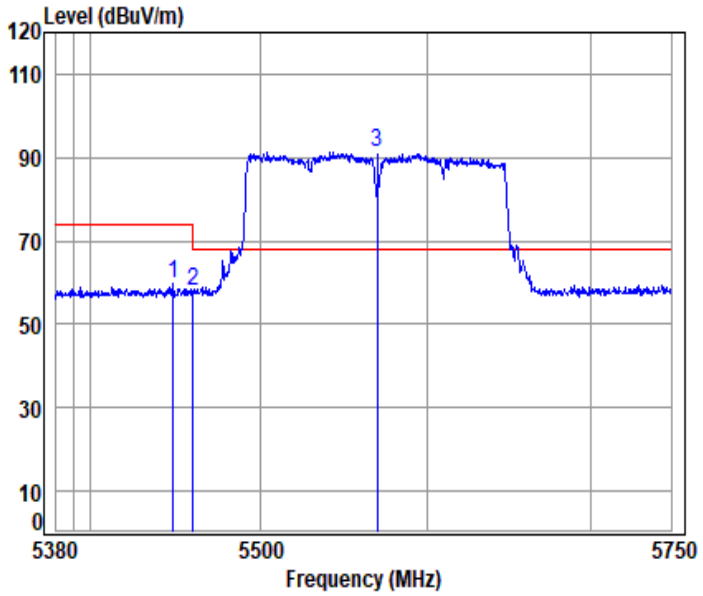
11ac_VHT(160M)_TX_CH_114_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5448.419	10.60	32.90	30.72	46.90	59.68	74.00	-14.32	peak
2	5460.000	10.60	32.90	30.72	44.97	57.75	68.20	-10.45	peak
3 pp	5570.000	10.46	32.94	30.67	78.56	91.29	68.20	23.09	peak

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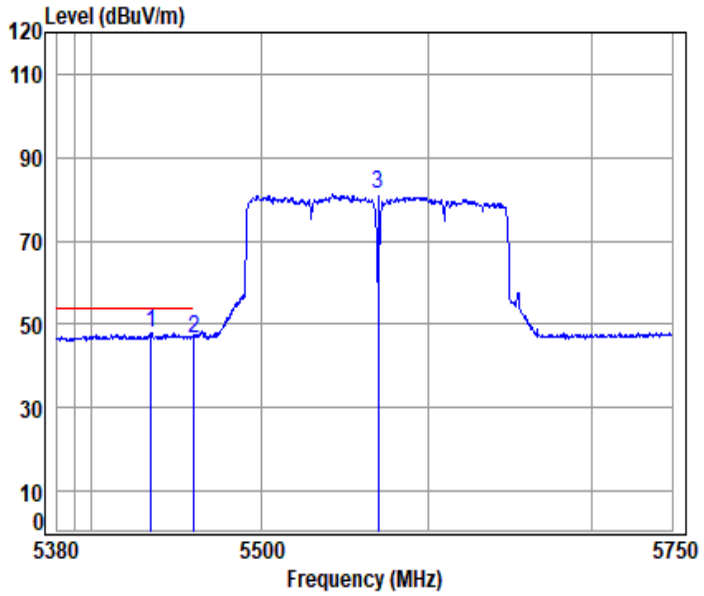
11ac_VHT(160M)_TX_CH_114_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5435.028	10.61	32.87	30.73	35.24	47.99	54.00	-6.01	Average
2	5460.000	10.60	32.90	30.72	33.89	46.67	54.00	-7.33	Average
3	5570.000	10.46	32.94	30.67	68.39	81.12	------	------	Average

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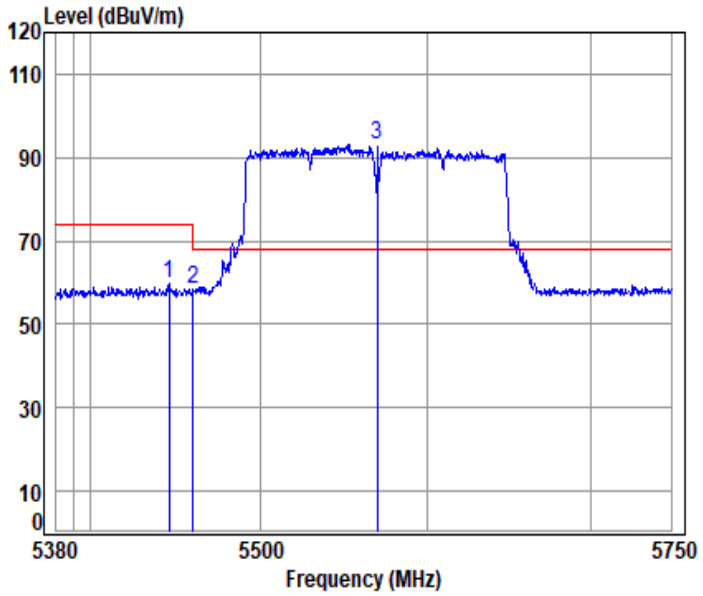
11ac_VHT(160M)_TX_CH_114_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5446.246	10.60	32.89	30.72	47.08	59.85	74.00	-14.15	peak
2	5460.000	10.60	32.90	30.72	45.69	58.47	68.20	-9.73	peak
3 pp	5570.000	10.46	32.94	30.67	80.28	93.01	68.20	24.81	peak

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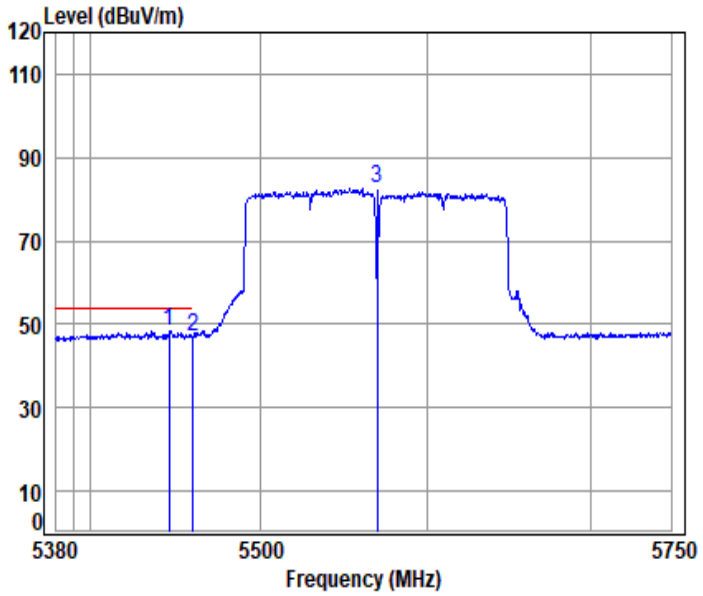
11ac_VHT(160M)_TX_CH_114_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AC160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5446.246	10.60	32.89	30.72	35.72	48.49	54.00	-5.51	Average
2	5460.000	10.60	32.90	30.72	34.44	47.22	54.00	-6.78	Average
3	5570.000	10.46	32.94	30.67	69.67	82.40	------	------	Average

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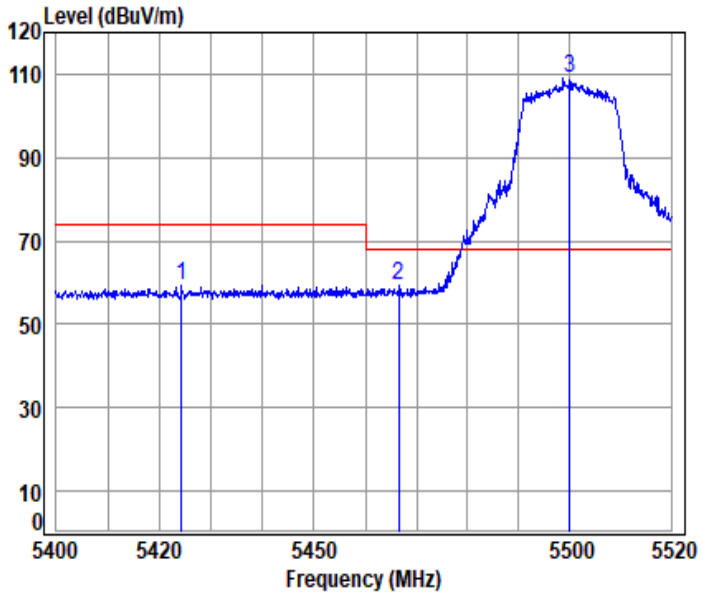
11ax_20M_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5424.266	10.61	32.85	30.73	46.74	59.47	74.00	-14.53	peak
2	5466.515	10.59	32.90	30.71	46.55	59.33	68.20	-8.87	peak
3 pp	5500.000	10.58	32.90	30.70	96.13	108.91	68.20	40.71	peak

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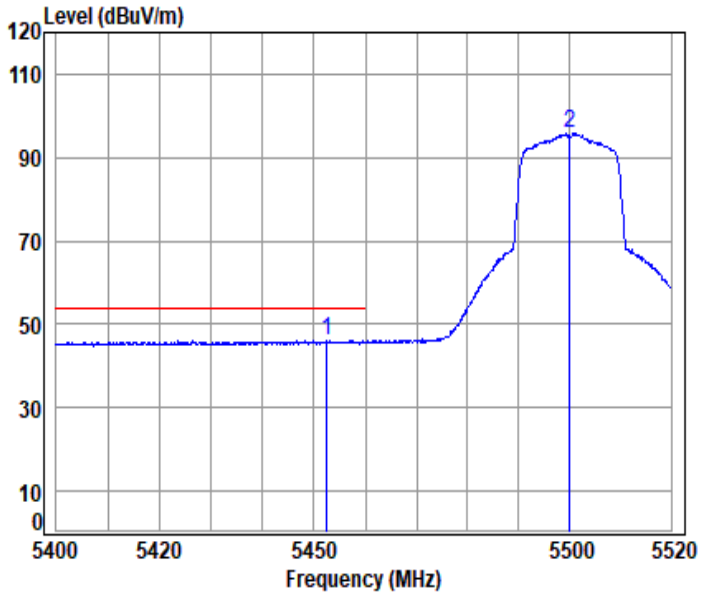
11ax_20M_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5452.475	10.60	32.90	30.72	33.26	46.04	54.00	-7.96	Average
2	5500.000	10.58	32.90	30.70	83.13	95.91	------	------	Average

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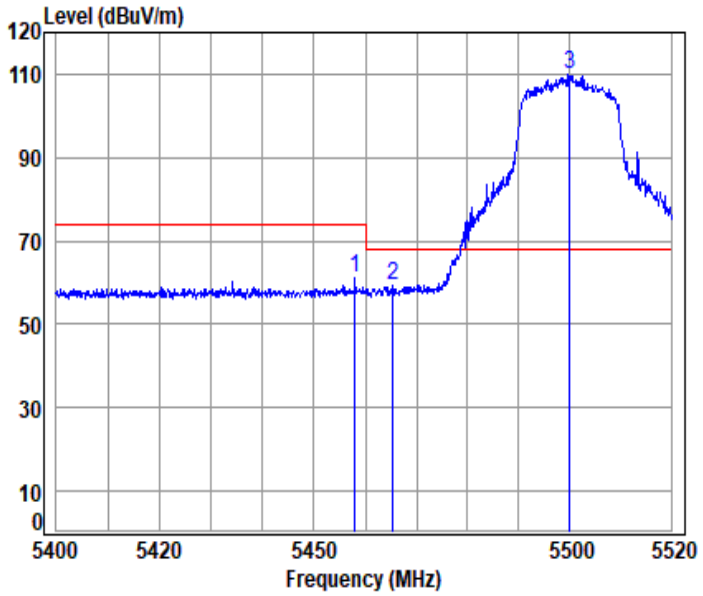
11ax_20M_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.991	10.60	32.90	30.72	48.22	61.00	74.00	-13.00	peak
2	5465.433	10.59	32.90	30.71	46.56	59.34	68.20	-8.86	peak
3 pp	5500.000	10.58	32.90	30.70	97.00	109.78	68.20	41.58	peak

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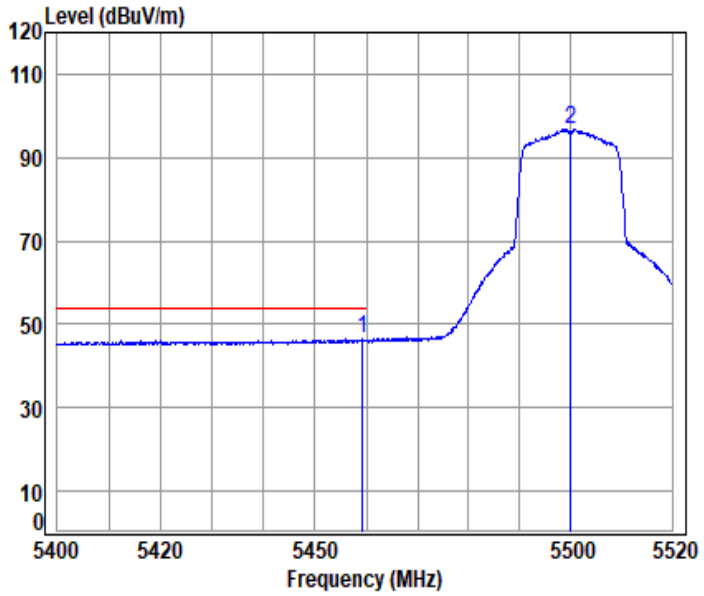
11ax_20M_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.311	10.60	32.90	30.72	33.64	46.42	54.00	-7.58	Average
2	5500.000	10.58	32.90	30.70	84.15	96.93	------	------	Average

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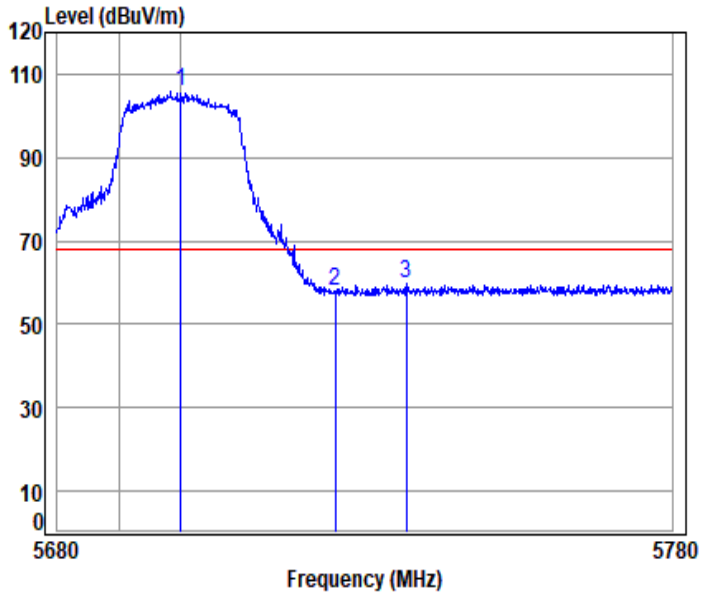
11ax_20M_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	92.69	105.83	68.20	37.63	peak
2	5725.000	10.68	33.25	30.61	44.73	58.05	68.20	-10.15	peak
3	5736.586	10.73	33.27	30.61	46.27	59.66	68.20	-8.54	peak

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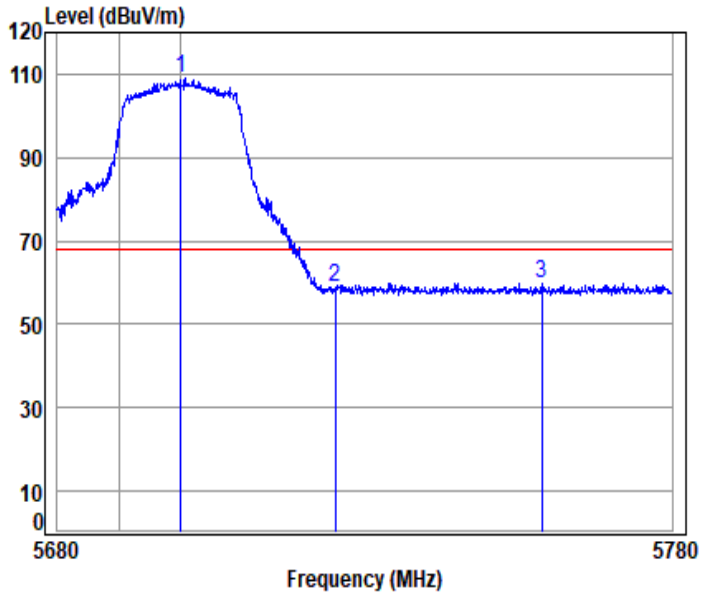
11ax_20M_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	96.10	109.24	68.20	41.04	peak
2	5725.000	10.68	33.25	30.61	45.46	58.78	68.20	-9.42	peak
3	5758.654	10.83	33.32	30.60	46.37	59.92	68.20	-8.28	peak

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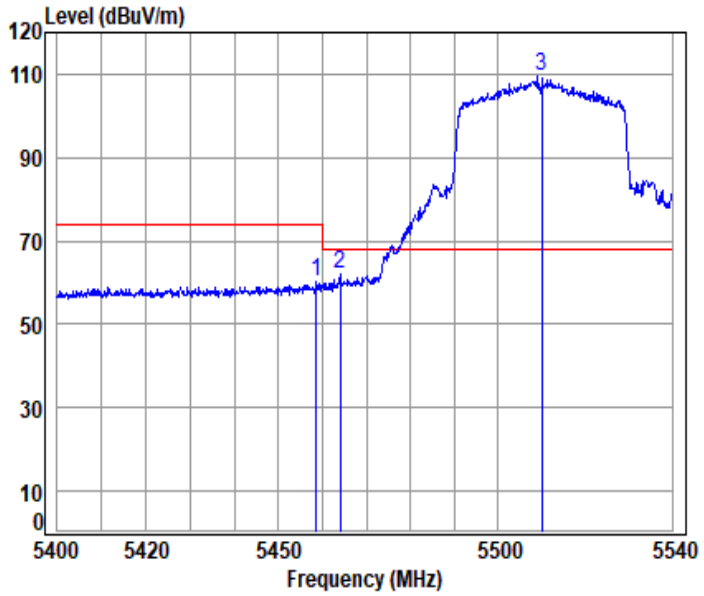
11ax_40M_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.643	10.60	32.90	30.72	47.58	60.36	74.00	-13.64	peak
2	5463.955	10.59	32.90	30.71	49.12	61.90	68.20	-6.30	peak
3 pp	5510.000	10.56	32.90	30.70	96.56	109.32	68.20	41.12	peak

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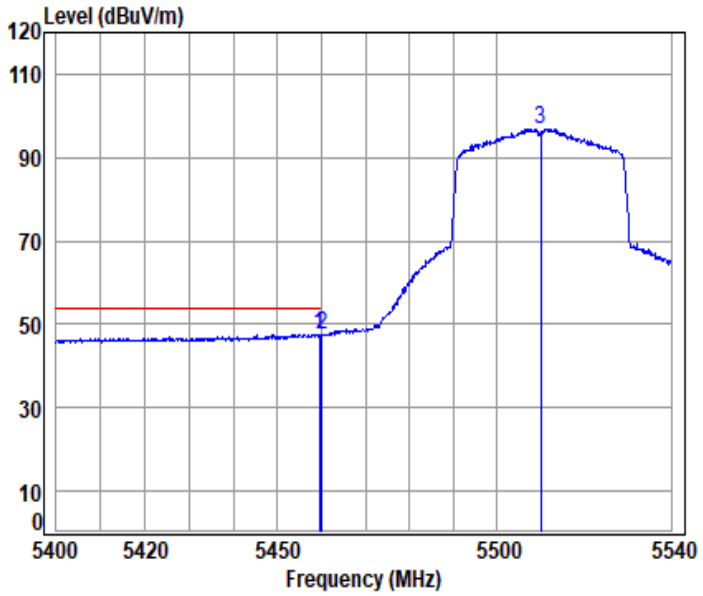
11ax_40M_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.481	10.60	32.90	30.72	34.84	47.62	54.00	-6.38	Average
2	5460.000	10.60	32.90	30.72	34.56	47.34	54.00	-6.66	Average
3	5510.000	10.56	32.90	30.70	84.19	96.95	------	------	Average

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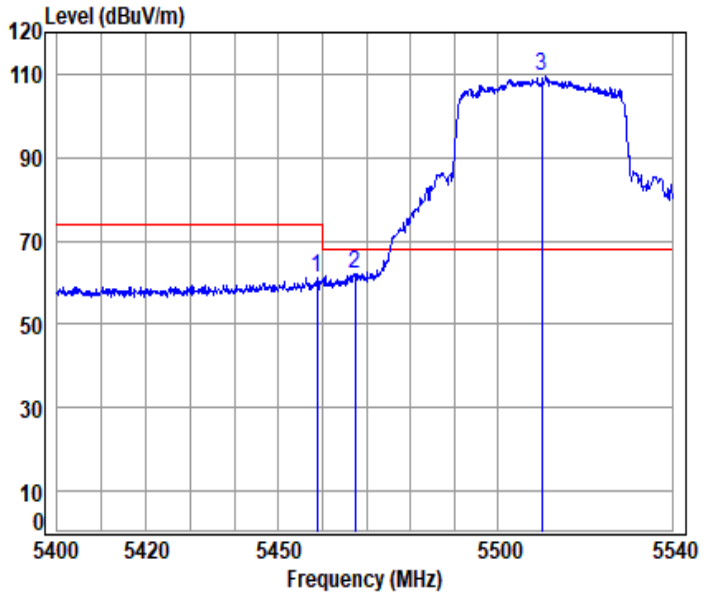
11ax_40M_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.783	10.60	32.90	30.72	48.21	60.99	74.00	-13.01	peak
2	5467.453	10.59	32.90	30.71	49.37	62.15	68.20	-6.05	peak
3 pp	5510.000	10.56	32.90	30.70	96.96	109.72	68.20	41.52	peak

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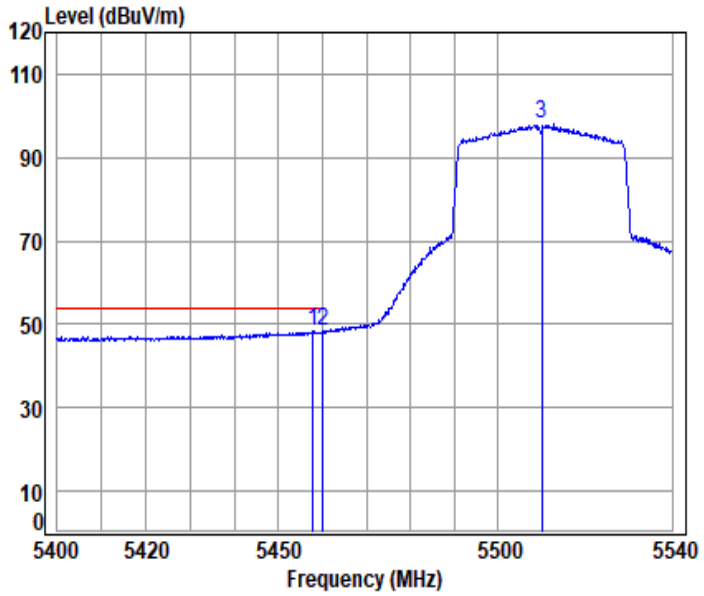
11ax_40M_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.805	10.60	32.90	30.72	35.50	48.28	54.00	-5.72	Average
2 pp	5460.000	10.60	32.90	30.72	35.59	48.37	54.00	-5.63	Average
3	5510.000	10.56	32.90	30.70	85.19	97.95	------	------	Average

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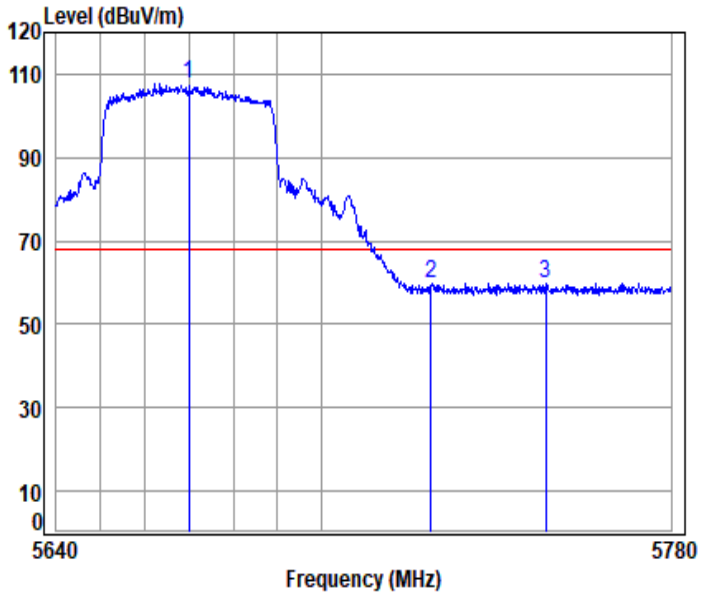
11ax_40M_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5670 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	94.54	107.57	68.20	39.37	peak
2	5725.000	10.68	33.25	30.61	46.23	59.55	68.20	-8.65	peak
3	5751.161	10.80	33.30	30.60	46.47	59.97	68.20	-8.23	peak

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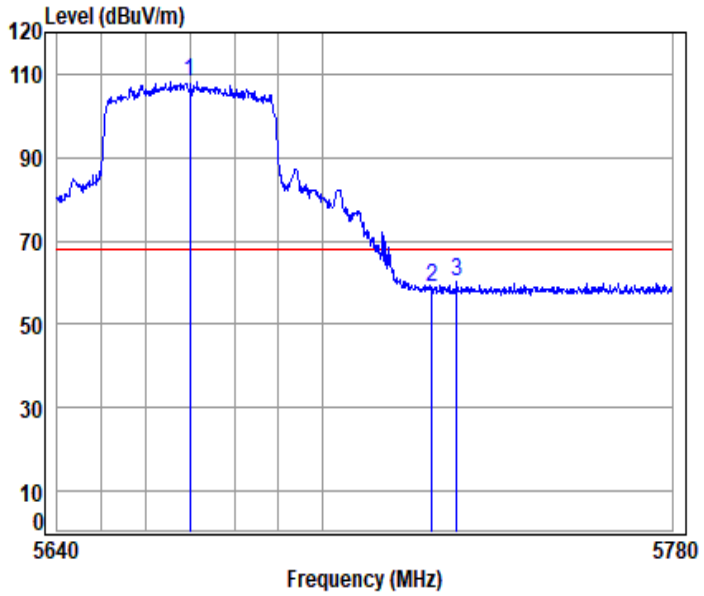
11ax_40M_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5670 Band edge
: 5GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	95.32	108.35	68.20	40.15	peak
2	5725.000	10.68	33.25	30.61	45.48	58.80	68.20	-9.40	peak
3	5730.609	10.70	33.26	30.61	47.03	60.38	68.20	-7.82	peak

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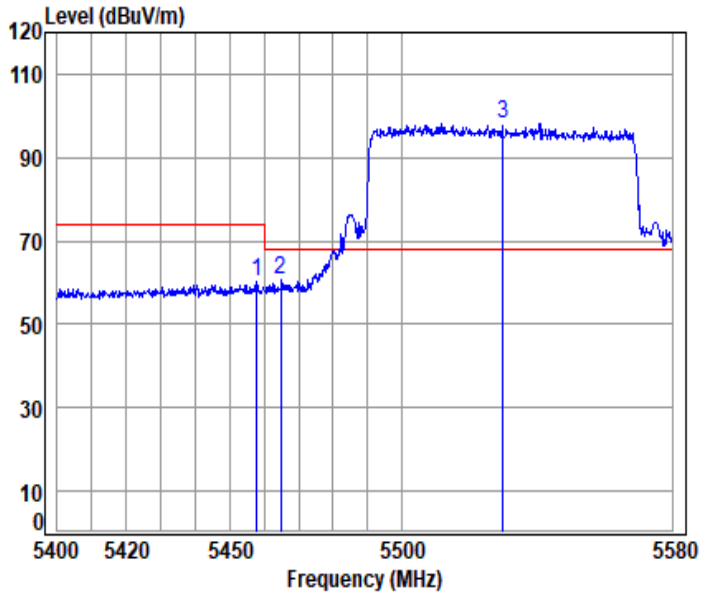
11ax_80M_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.854	10.60	32.90	30.72	47.49	60.27	74.00	-13.73	peak
2	5464.838	10.59	32.90	30.71	47.87	60.65	68.20	-7.55	peak
3 pp	5530.000	10.53	32.90	30.69	85.48	98.22	68.20	30.02	peak

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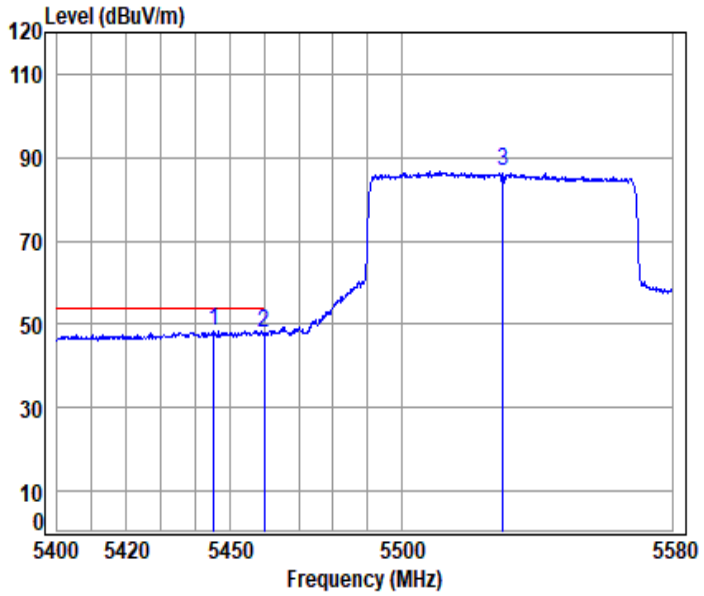

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5445.341	10.60	32.89	30.72	35.69	48.46	54.00	-5.54	Average
2	5460.002	10.60	32.90	30.72	35.02	47.80	54.00	-6.20	Average
3	5530.000	10.53	32.90	30.69	73.78	86.52	------	------	Average

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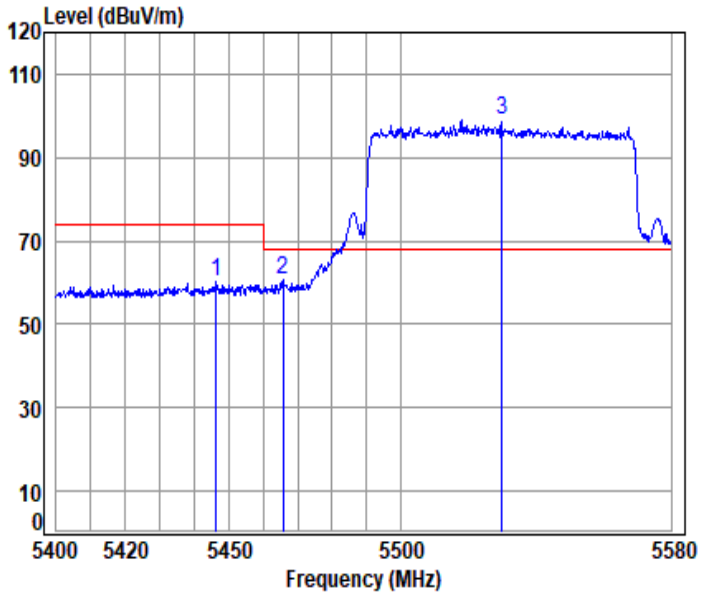

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5446.234	10.60	32.89	30.72	47.37	60.14	74.00	-13.86	peak
2	5465.734	10.59	32.90	30.71	47.80	60.58	68.20	-7.62	peak
3 pp	5530.000	10.53	32.90	30.69	86.47	99.21	68.20	31.01	peak

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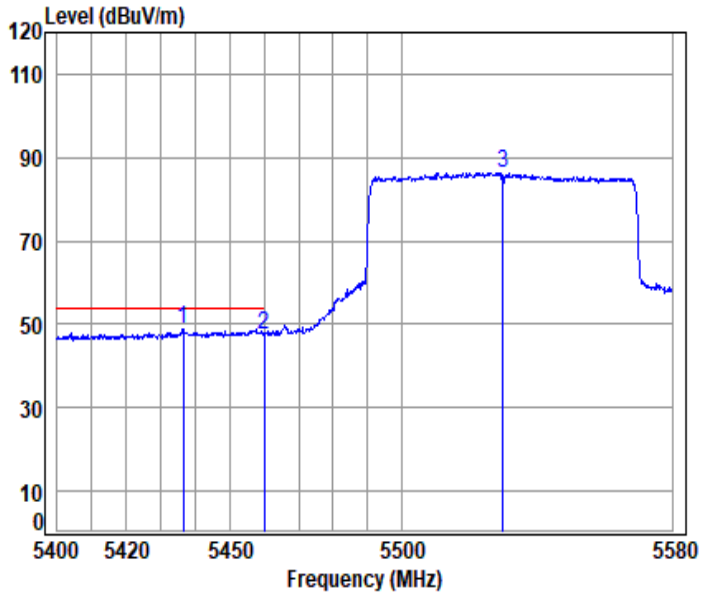
11ax_80M_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5436.420	10.61	32.87	30.73	35.99	48.74	54.00	-5.26	Average
2	5460.002	10.60	32.90	30.72	34.86	47.64	54.00	-6.36	Average
3	5530.000	10.53	32.90	30.69	73.72	86.46	------	------	Average

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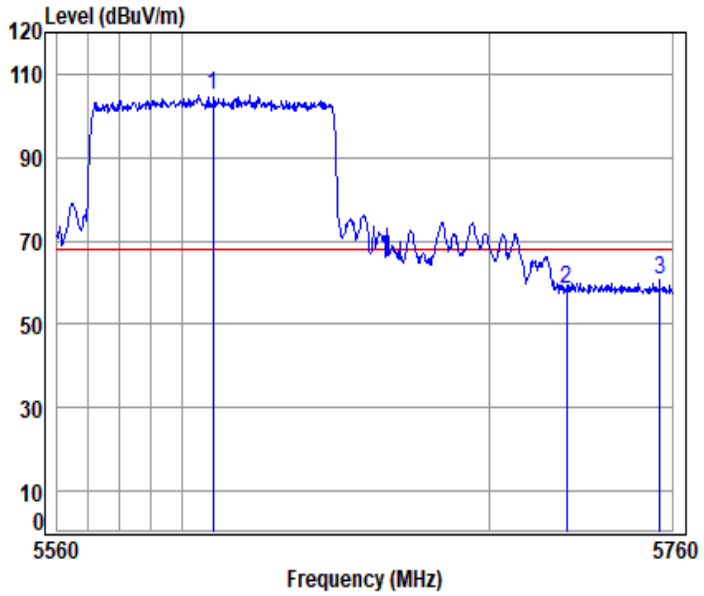
11ax_80M_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5610 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	92.19	104.98	68.20	36.78	peak
2	5725.095	10.68	33.25	30.61	45.16	58.48	68.20	-9.72	Peak
3	5755.930	10.82	33.31	30.60	47.09	60.62	68.20	-7.58	peak

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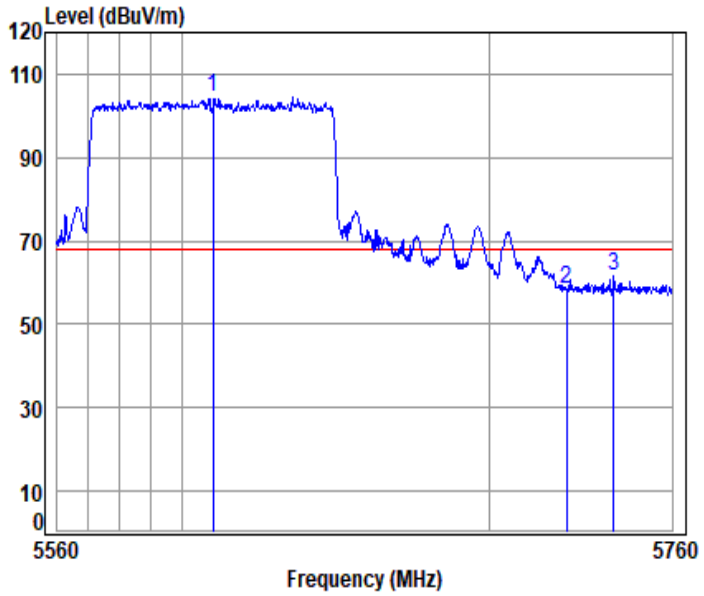
11ax_80M_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5610 Band edge
: 5GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	91.61	104.40	68.20	36.20	peak
2	5725.095	10.68	33.25	30.61	45.25	58.57	68.20	-9.63	Peak
3	5740.695	10.75	33.28	30.60	48.04	61.47	68.20	-6.73	peak

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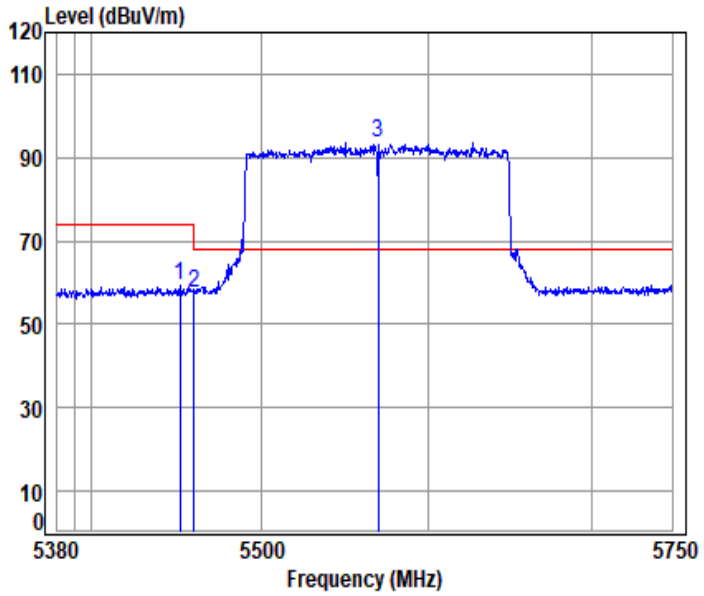
11ax_160M_TX_CH_114_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5452.044	10.60	32.90	30.72	46.64	59.42	74.00	-14.58	peak
2	5460.000	10.60	32.90	30.72	44.85	57.63	68.20	-10.57	peak
3 pp	5570.000	10.46	32.94	30.67	80.86	93.59	68.20	25.39	peak

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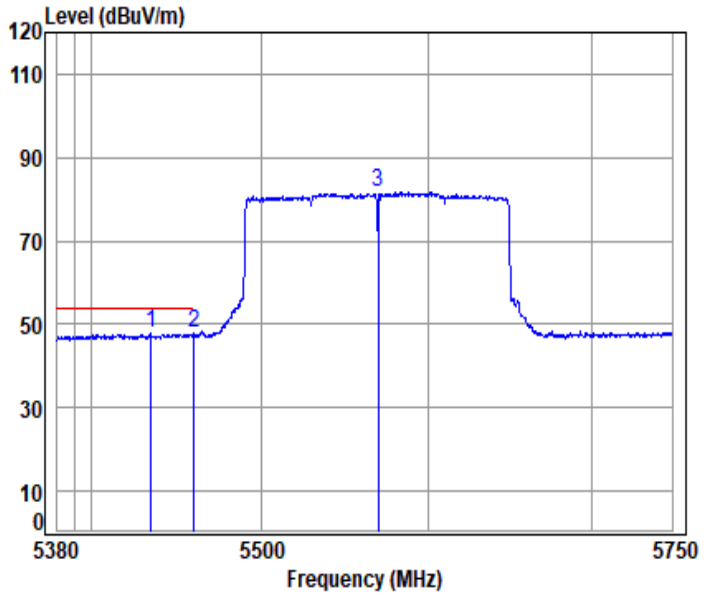
11ax_160M_TX_CH_114_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5435.028	10.61	32.87	30.73	35.31	48.06	54.00	-5.94	Average
2	5460.000	10.60	32.90	30.72	35.14	47.92	54.00	-6.08	Average
3	5570.000	10.46	32.94	30.67	68.86	81.59	------	------	Average

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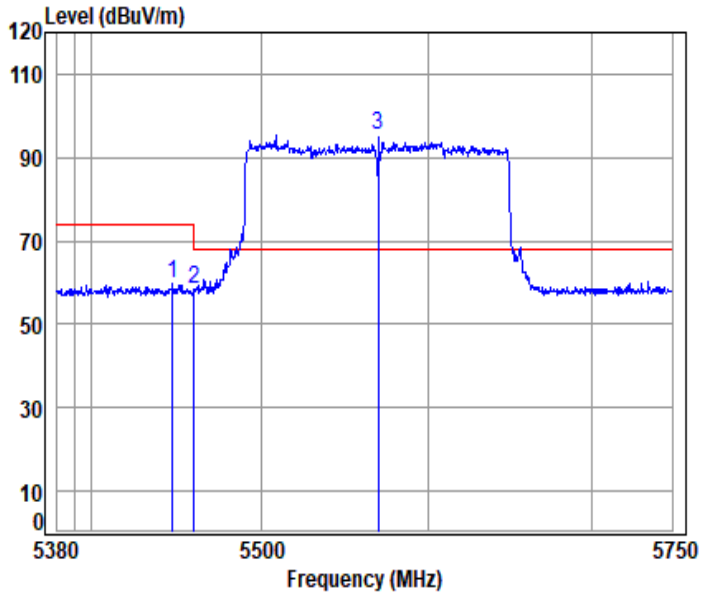
11ax_160M_TX_CH_114_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5447.333	10.60	32.89	30.72	46.99	59.76	74.00	-14.24	peak
2	5460.000	10.60	32.90	30.72	45.67	58.45	74.00	-15.55	peak
3 pp	5570.000	10.46	32.94	30.67	82.52	95.25	68.20	27.05	peak

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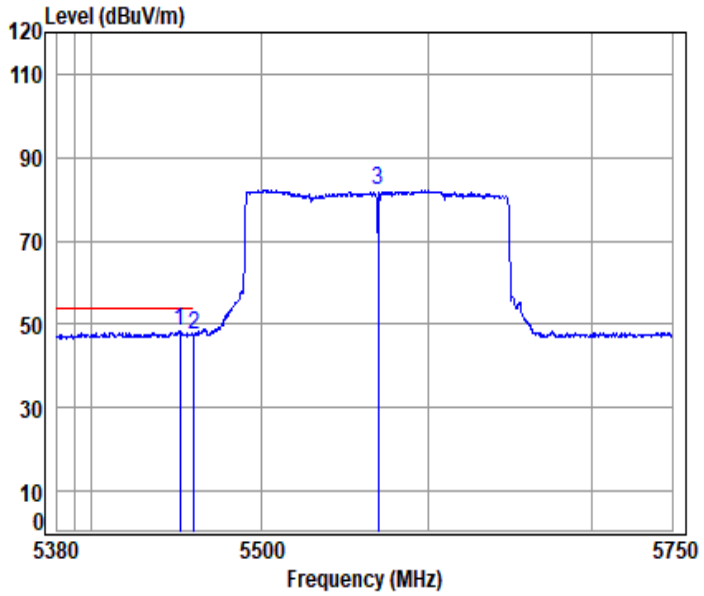
11ax_160M_TX_CH_114_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5452.044	10.60	32.90	30.72	35.62	48.40	54.00	-5.60	Average
2	5460.000	10.60	32.90	30.72	34.68	47.46	54.00	-6.54	Average
3	5570.000	10.46	32.94	30.67	69.44	82.17	------	------	Average

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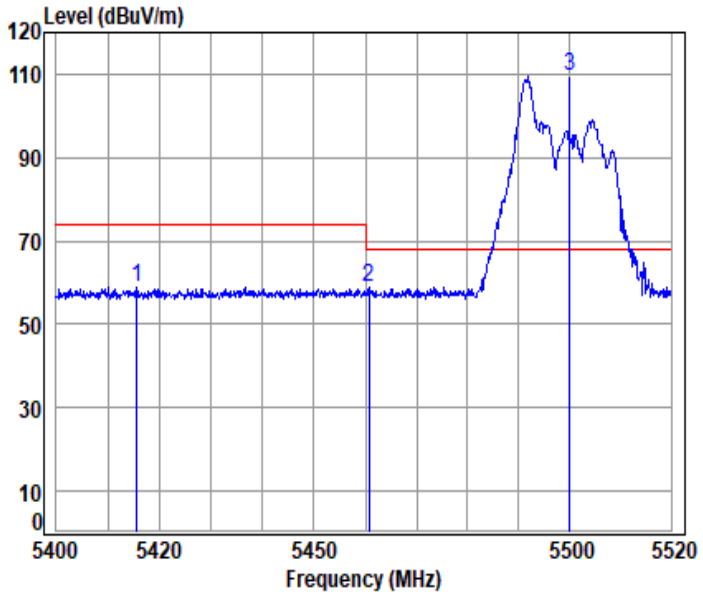
11ax_20M_Partial_RU26_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5415.570	10.61	32.83	30.73	46.09	58.80	74.00	-15.20	peak
2	5460.750	10.60	32.90	30.72	45.98	58.76	68.20	-9.44	peak
3 pp	5500.000	10.58	32.90	30.70	96.94	109.72	68.20	41.52	peak

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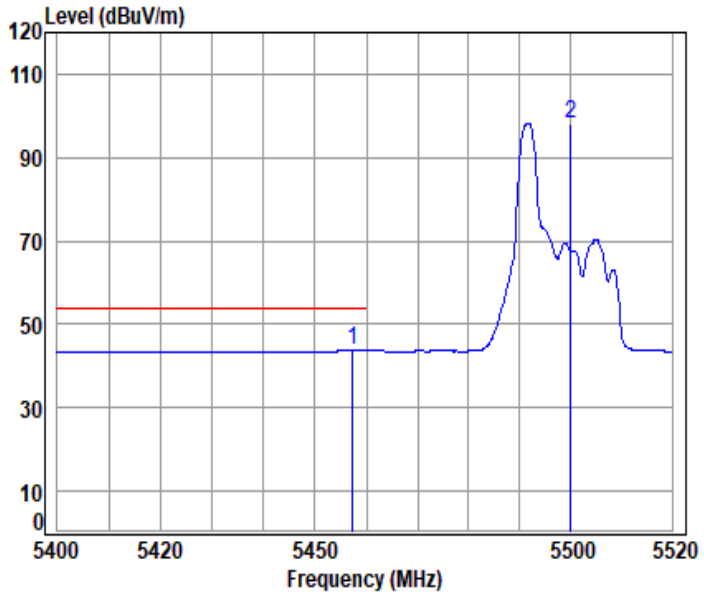

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5457.391	10.60	32.90	30.72	30.96	43.74	54.00	-10.26	Average
2	5500.000	10.58	32.90	30.70	85.54	98.32	------	------	Average

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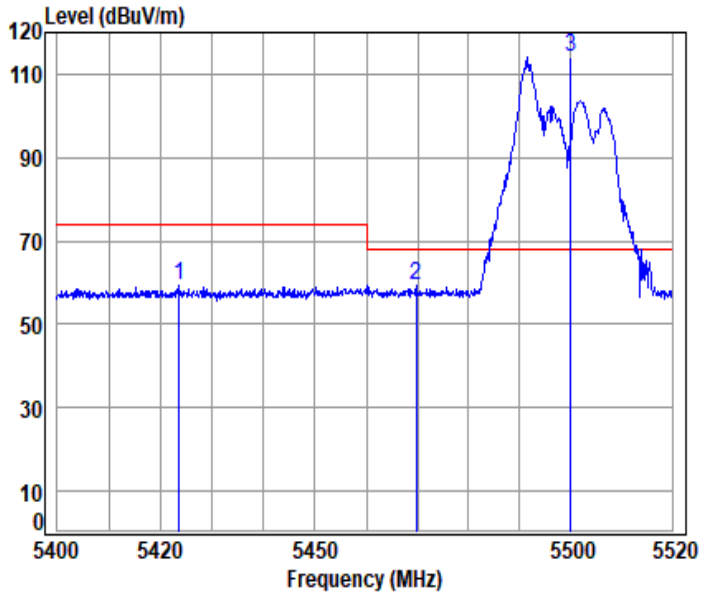

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5423.670	10.61	32.85	30.73	46.49	59.22	74.00	-14.78	peak
2	5469.759	10.59	32.90	30.71	46.49	59.27	68.20	-8.93	peak
3 pp	5500.000	10.58	32.90	30.70	101.35	114.13	68.20	45.93	peak

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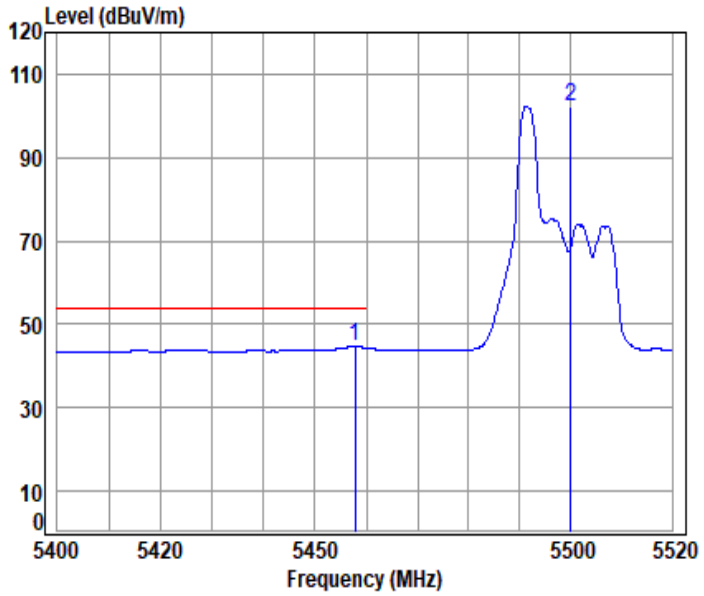

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5457.871	10.60	32.90	30.72	31.84	44.62	54.00	-9.38	Average
2	5500.000	10.58	32.90	30.70	89.50	102.28	------	------	Average

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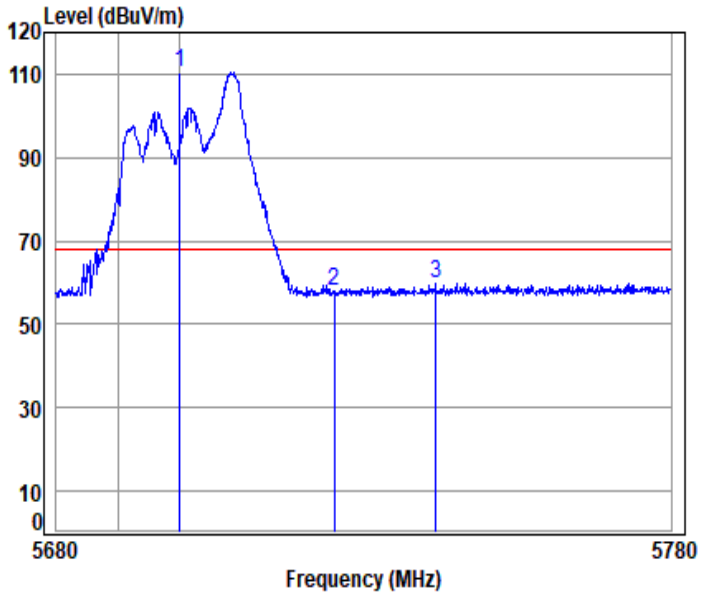

Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	97.31	110.45	68.20	42.25	peak
2	5725.000	10.68	33.25	30.61	44.83	58.15	68.20	-10.05	peak
3	5741.494	10.75	33.28	30.60	46.57	60.00	68.20	-8.20	peak

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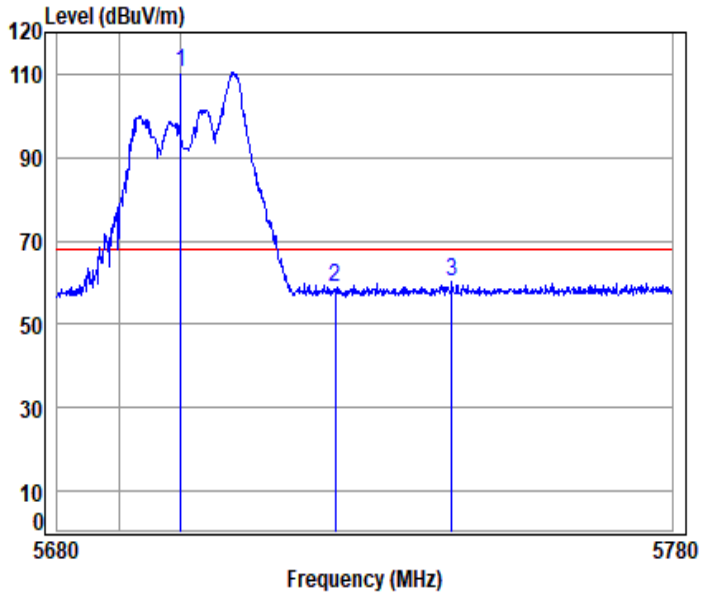
11ax_20M_Partial_RU26_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5700 Band edge
: 5GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	97.29	110.43	68.20	42.23	peak
2	5725.000	10.68	33.25	30.61	45.54	58.86	68.20	-9.34	peak
3	5744.000	10.76	33.29	30.60	46.59	60.04	68.20	-8.16	peak

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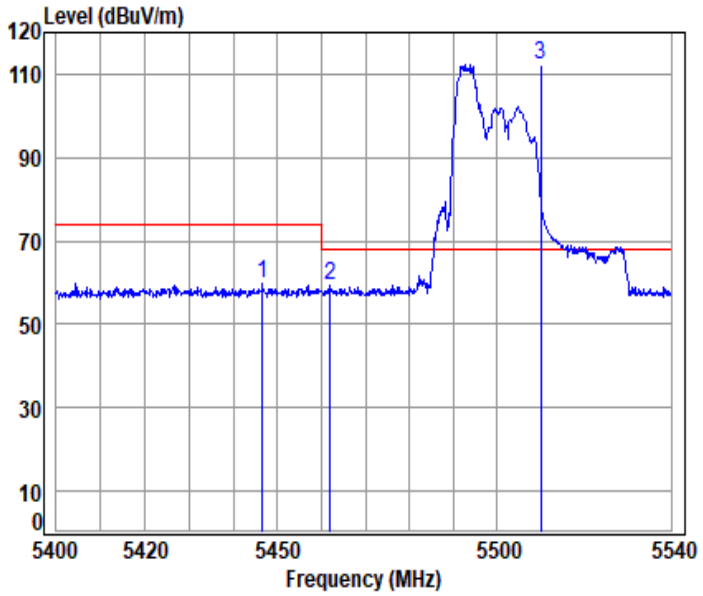
11ax_40M_Partial_RU52_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5446.641	10.60	32.89	30.72	47.17	59.94	74.00	-14.06	peak
2	5461.998	10.60	32.90	30.72	46.44	59.22	68.20	-8.98	peak
3 pp	5510.000	10.56	32.90	30.70	99.46	112.22	68.20	44.02	peak

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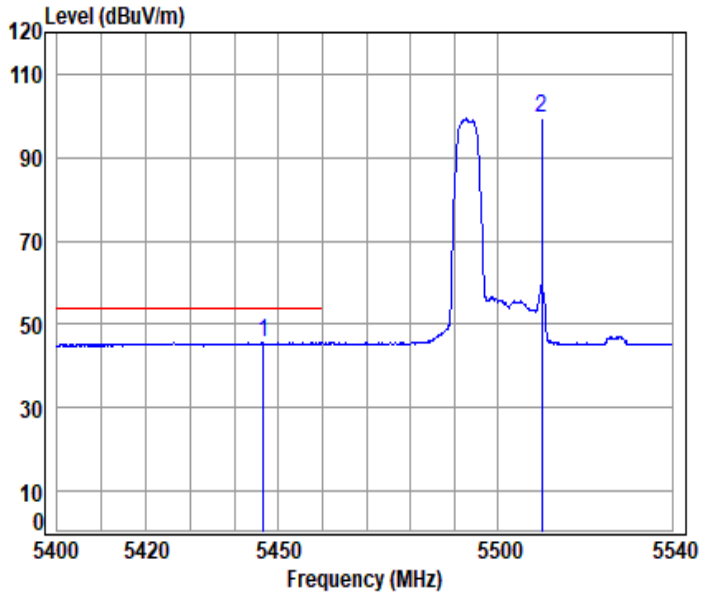
11ax_40M_Partial_RU52_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5446.501	10.60	32.89	30.72	32.94	45.71	54.00	-8.29	Average
2	5510.000	10.56	32.90	30.70	86.56	99.32	------	------	Average

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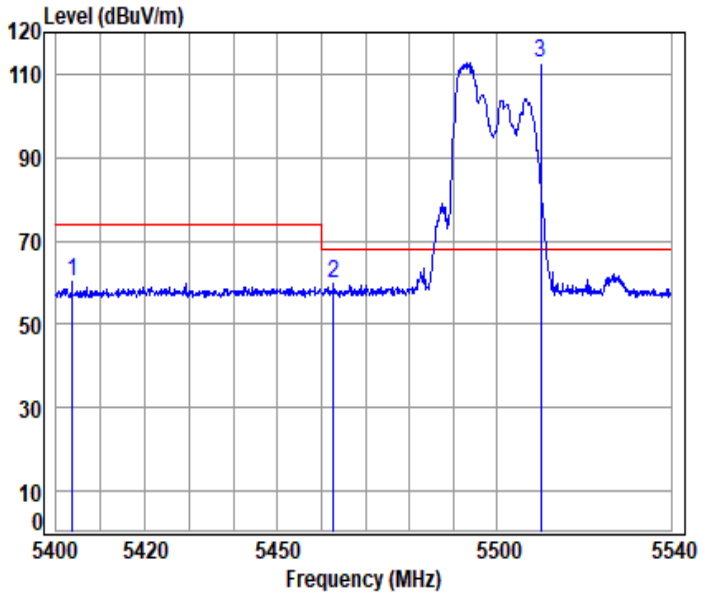
11ax_40M_Partial_RU52_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5403.595	10.62	32.81	30.74	47.37	60.06	74.00	-13.94	peak
2	5462.697	10.59	32.90	30.71	46.90	59.68	68.20	-8.52	peak
3 pp	5510.000	10.56	32.90	30.70	99.96	112.72	68.20	44.52	peak

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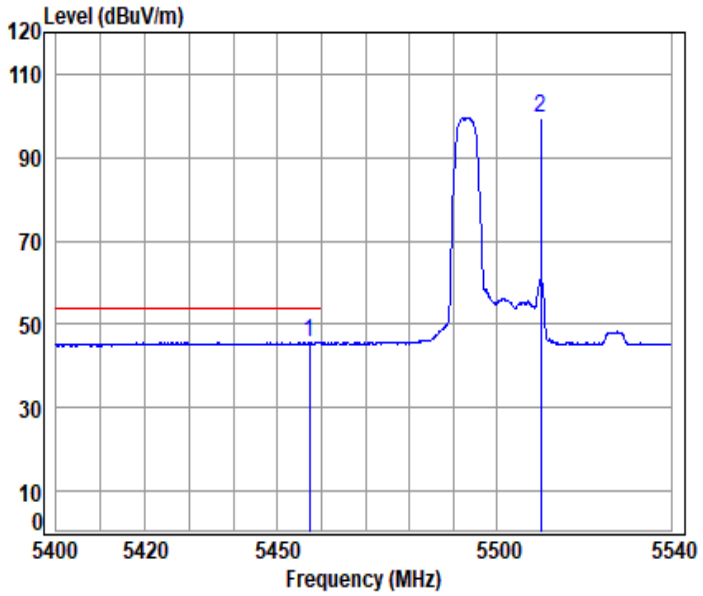
11ax_40M_Partial_RU52_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5510 Band edge
: 5GWIFI 11AX40_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5457.246	10.60	32.90	30.72	32.82	45.60	54.00	-8.40	Average
2	5510.000	10.56	32.90	30.70	86.84	99.60	------	------	Average

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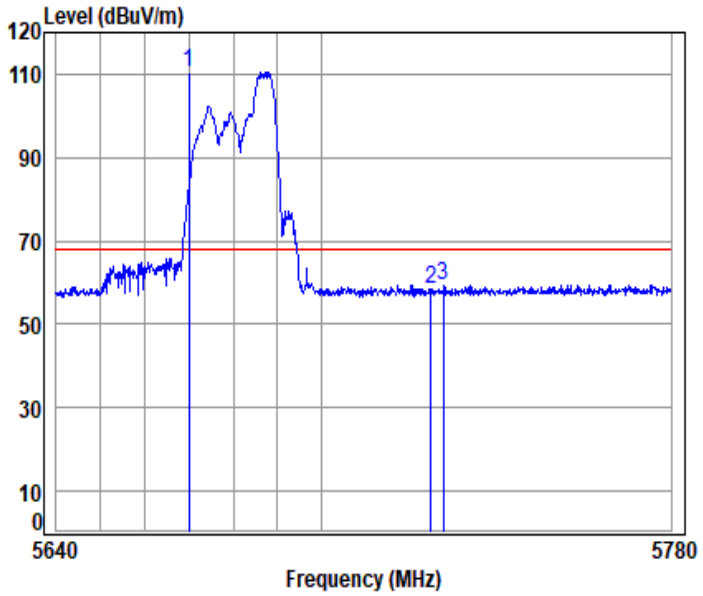
11ax_40M_Partial_RU52_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5670 Band edge
: 5GWIFI 11AX40_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	97.47	110.50	68.20	42.30	peak
2	5725.000	10.68	33.25	30.61	45.16	58.48	68.20	-9.72	peak
3	5727.799	10.69	33.26	30.61	46.09	59.43	68.20	-8.77	peak

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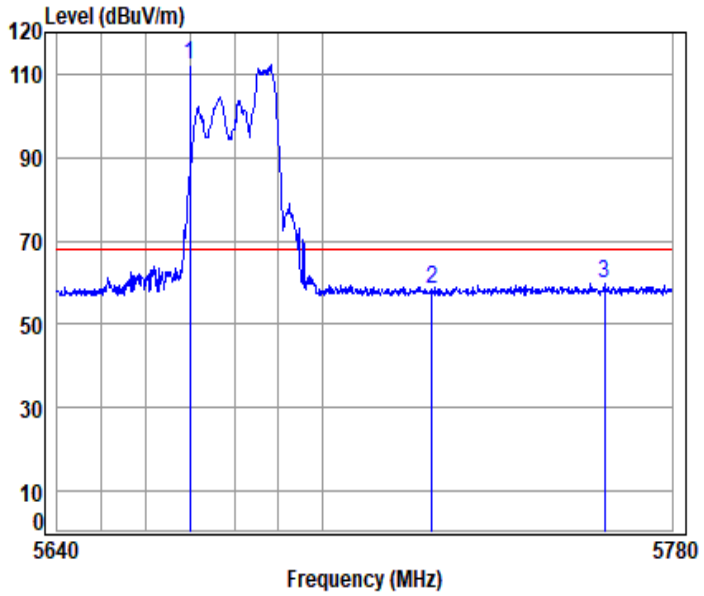

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5670 Band edge
: 5GWIFI 11AX40_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	99.14	112.17	68.20	43.97	peak
2	5725.000	10.68	33.25	30.61	45.25	58.57	68.20	-9.63	peak
3	5764.432	10.86	33.33	30.59	46.15	59.75	68.20	-8.45	peak

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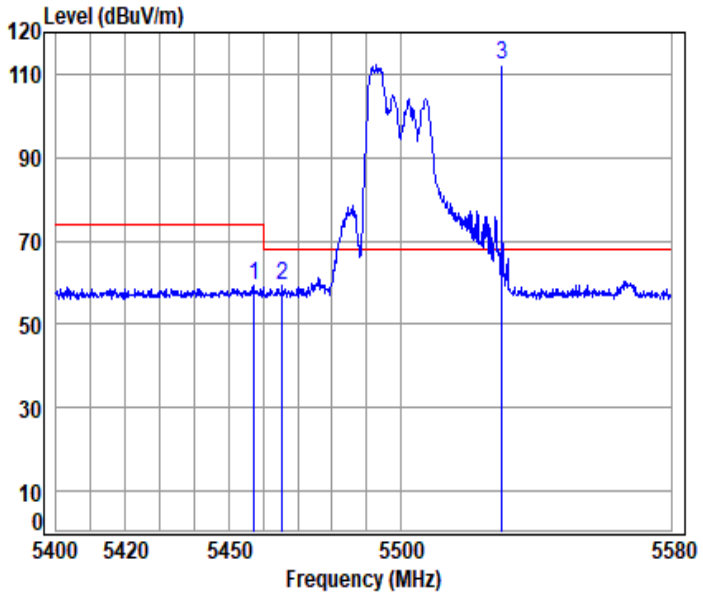
11ax_80M_Partial_RU52_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.317	10.60	32.90	30.72	46.52	59.30	74.00	-14.70	peak
2	5465.555	10.59	32.90	30.71	46.61	59.39	68.20	-8.81	peak
3 pp	5530.000	10.53	32.90	30.69	99.56	112.30	68.20	44.10	peak

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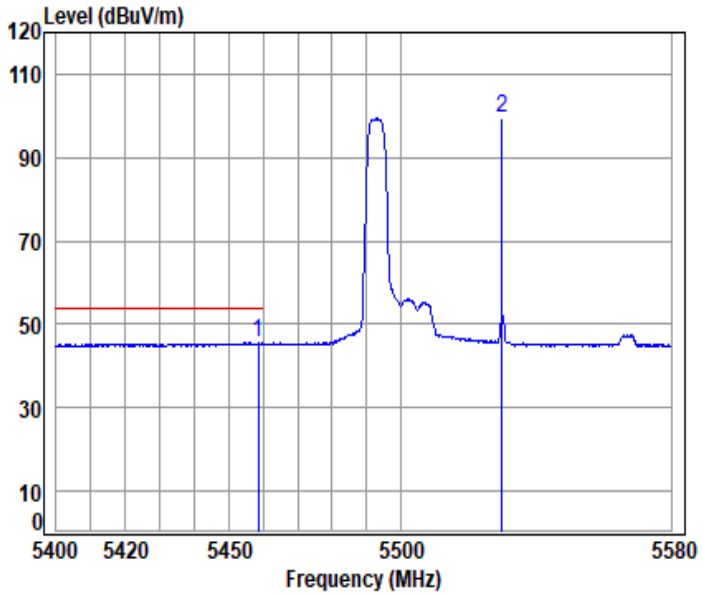
11ax_80M_Partial_RU52_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.570	10.60	32.90	30.72	32.78	45.56	54.00	-8.44	Average
2	5530.000	10.53	32.90	30.69	86.61	99.35	------	------	Average

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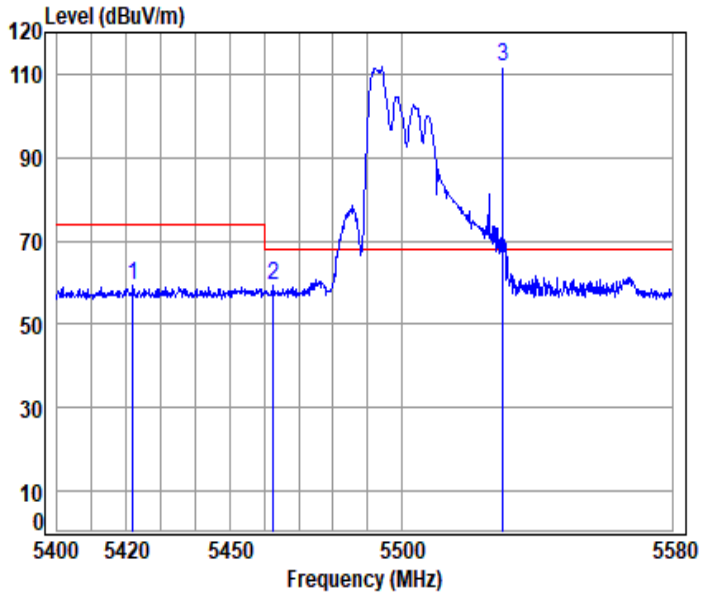
11ax_80M_Partial_RU52_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5421.823	10.61	32.84	30.73	46.52	59.24	74.00	-14.76	peak
2	5462.688	10.59	32.90	30.71	46.39	59.17	68.20	-9.03	peak
3 pp	5530.000	10.53	32.90	30.69	98.88	111.62	68.20	43.42	peak

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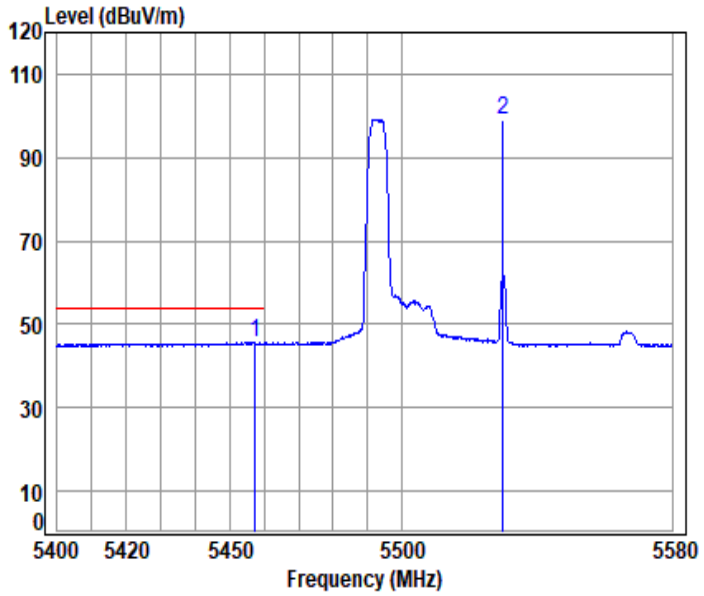
11ax_80M_Partial_RU52_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5530 Band edge
: 5GWIFI 11AX80_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5457.317	10.60	32.90	30.72	32.78	45.56	54.00	-8.44	Average
2	5530.000	10.53	32.90	30.69	86.47	99.21	------	------	Average

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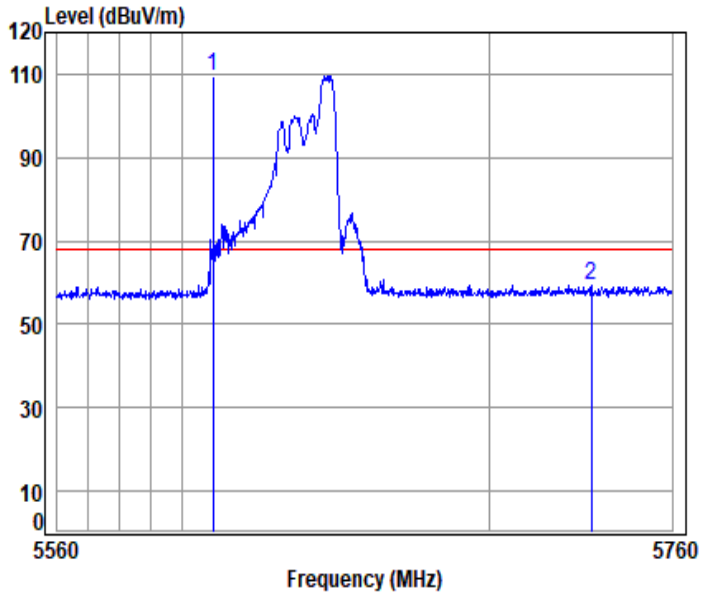
11ax_80M_Partial_RU52_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5610 Band edge
: 5GWIFI 11AX80_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	96.73	109.52	68.20	41.32	peak
2	5733.396	10.71	33.27	30.61	46.10	59.47	68.20	-8.73	peak

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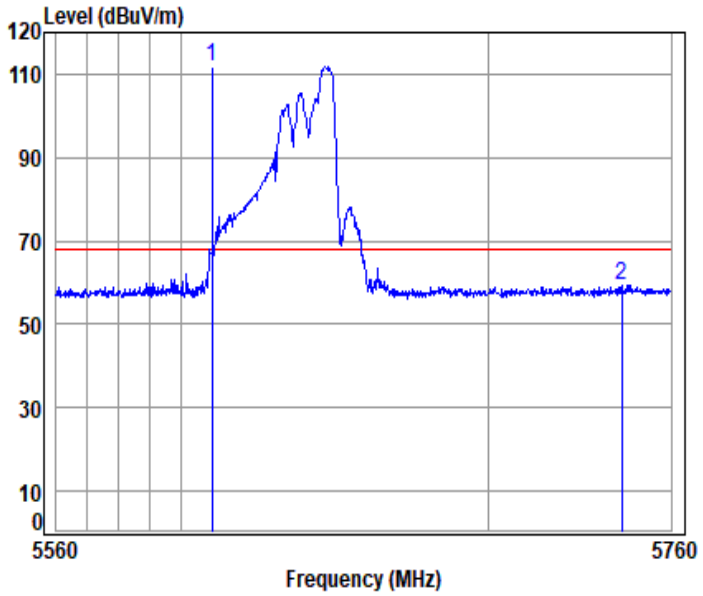
11ax_80M_Partial_RU52_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5610 Band edge
: 5GWIFI 11AX80_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	99.21	112.00	68.20	43.80	peak
2	5743.739	10.76	33.29	30.60	45.97	59.42	68.20	-8.78	peak

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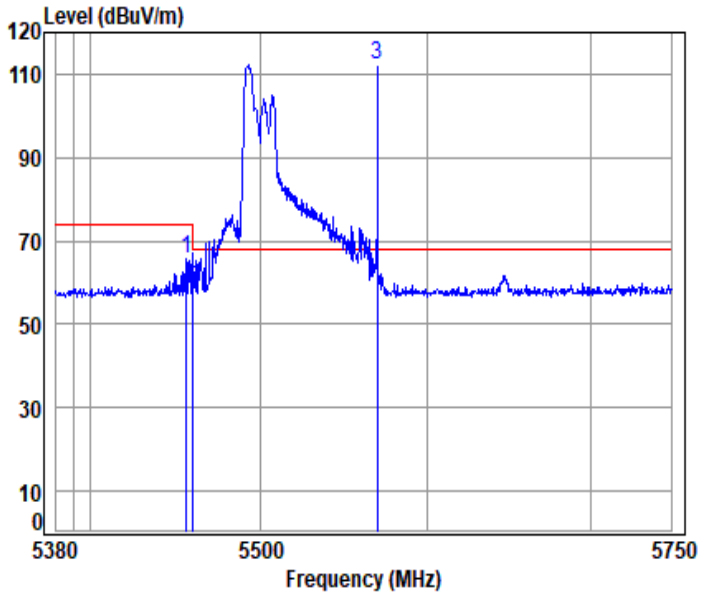
11ax_160M_Partial_RU52_TX_CH_114_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5456.397	10.60	32.90	30.72	52.96	65.74	74.00	-8.26	peak
2	5459.980	10.60	32.90	30.72	45.64	58.42	74.00	-15.58	peak
3 pp	5570.000	10.46	32.94	30.67	99.73	112.46	68.20	44.26	peak

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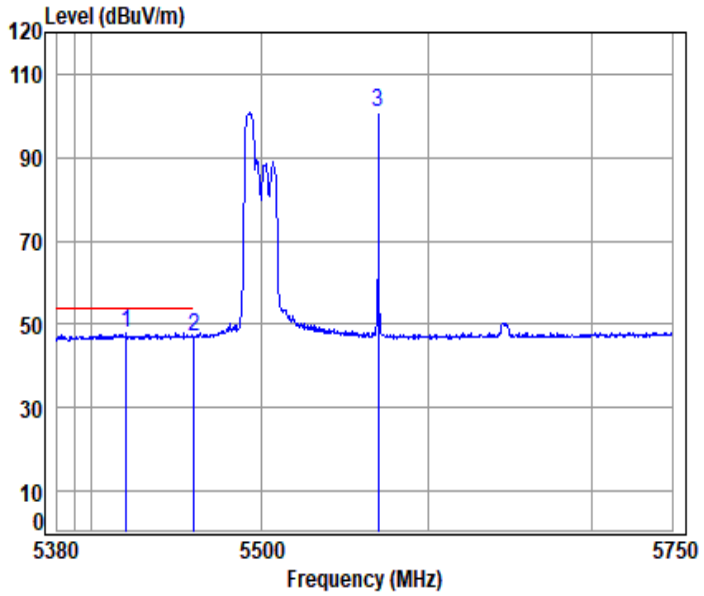
11ax_160M_Partial_RU52_TX_CH_114_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5420.227	10.61	32.84	30.73	35.22	47.94	54.00	-6.06	Average
2	5460.000	10.60	32.90	30.72	34.26	47.04	54.00	-6.96	Average
3	5570.000	10.46	32.94	30.67	88.20	100.93	------	------	Average

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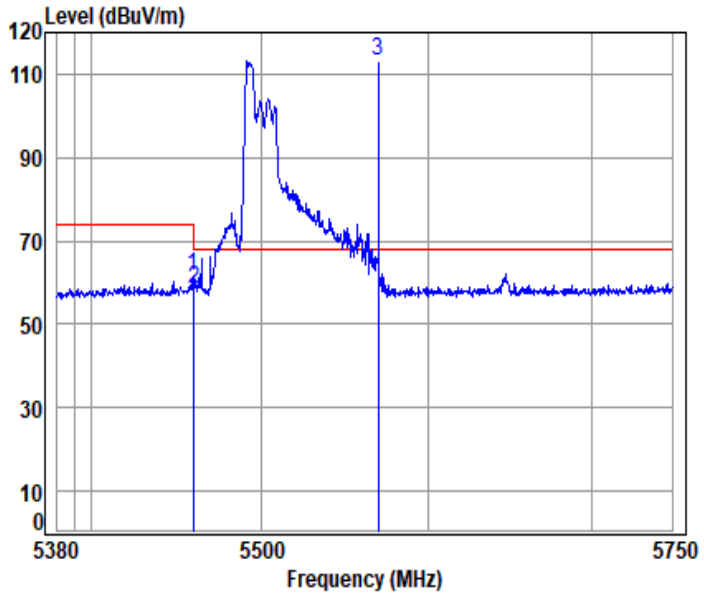
11ax_160M_Partial_RU52_TX_CH_114_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.665	10.60	32.90	30.72	49.02	61.80	74.00	-12.20	peak
2	5459.980	10.60	32.90	30.72	45.41	58.19	74.00	-15.81	peak
3 pp	5570.000	10.46	32.94	30.67	100.22	112.95	68.20	44.75	peak

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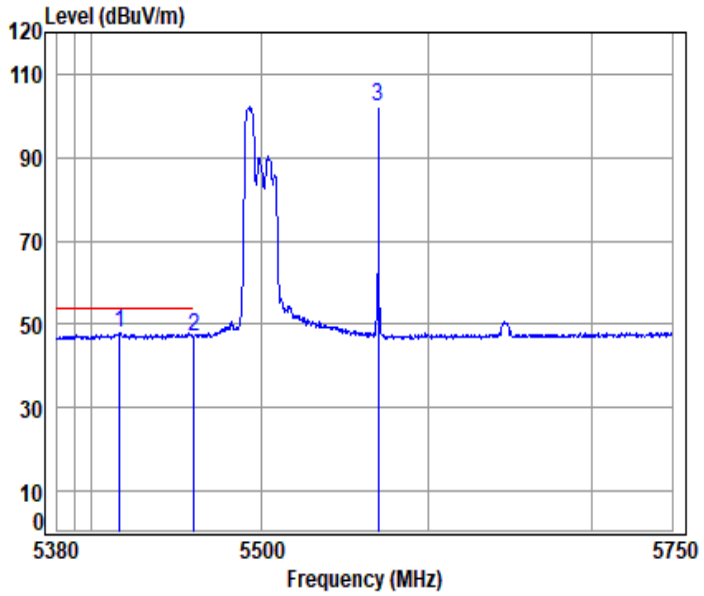

Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5570 Band edge
: 5GWIFI 11AX160_RU52 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5416.623	10.61	32.83	30.73	35.33	48.04	54.00	-5.96	Average
2	5460.000	10.60	32.90	30.72	34.39	47.17	54.00	-6.83	Average
3	5570.000	10.46	32.94	30.67	89.34	102.07	------	------	Average

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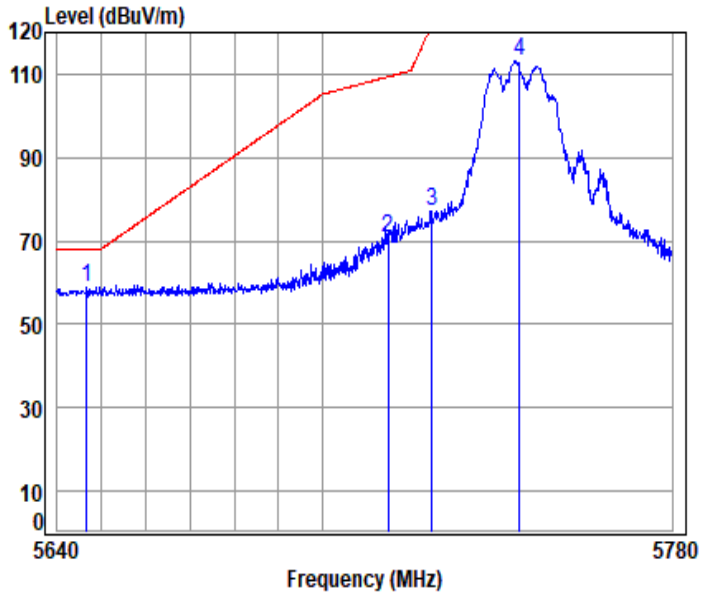
11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5646.642	10.48	33.09	30.64	45.95	58.88	68.20	-9.32	peak
2	5715.000	10.63	33.23	30.61	57.56	70.81	109.40	-38.59	peak
3	5725.000	10.68	33.25	30.61	63.72	77.04	122.20	-45.16	peak
4	5745.000	10.77	33.29	30.60	99.67	113.13	------	------	peak

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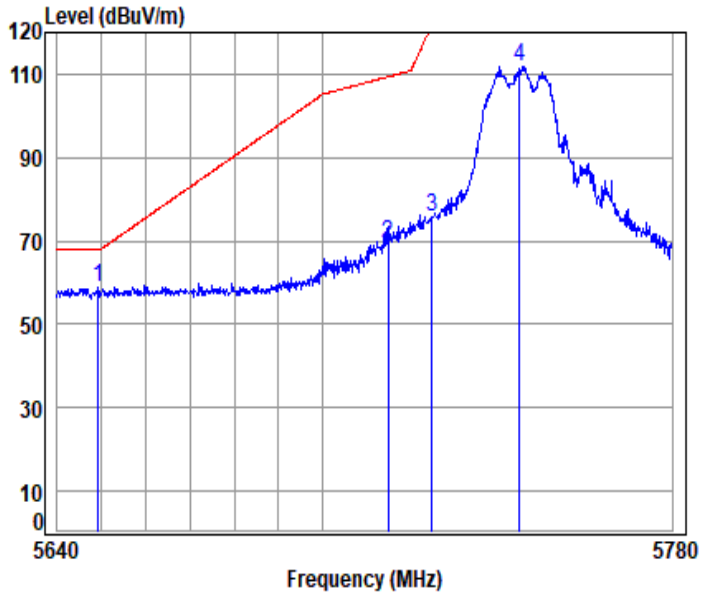
11a_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11A

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5649.273	10.48	33.10	30.64	45.73	58.67	68.20	-9.53	peak
2		5715.000	10.63	33.23	30.61	56.15	69.40	109.40	-40.00	peak
3		5725.000	10.68	33.25	30.61	62.59	75.91	122.20	-46.29	peak
4		5745.000	10.77	33.29	30.60	98.40	111.86	------	------	peak

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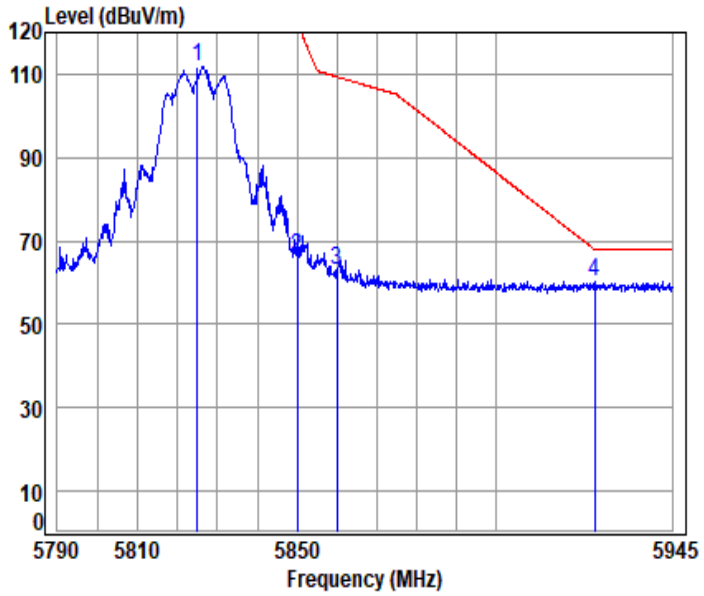
11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	98.03	111.95	------	------	peak
2	5850.000	10.95	33.60	30.56	52.05	66.04	122.20	-56.16	peak
3	5860.000	10.94	33.58	30.56	48.98	62.94	109.40	-46.46	peak
4 pp	5925.244	10.87	33.55	30.53	46.46	60.35	68.20	-7.85	peak

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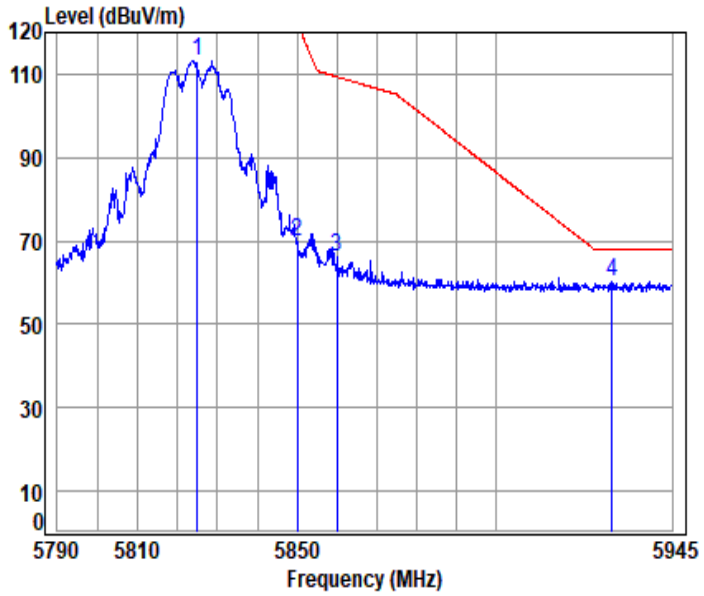
11a_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	99.43	113.35	------	------	peak
2	5850.000	10.95	33.60	30.56	55.82	69.81	122.20	-52.39	peak
3	5860.000	10.94	33.58	30.56	52.18	66.14	109.40	-43.26	peak
4 pp	5929.628	10.87	33.56	30.53	46.19	60.09	68.20	-8.11	peak

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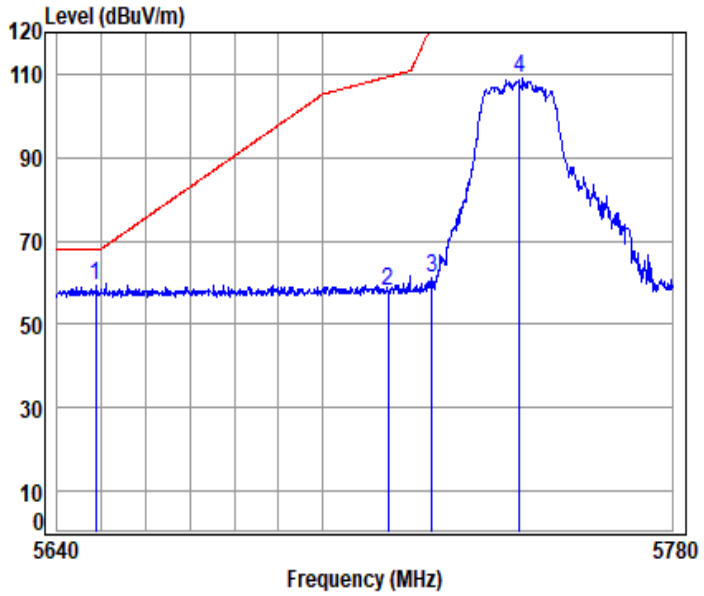
11n_HT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.719	10.48	33.10	30.64	46.47	59.41	68.20	-8.79	peak
2	5715.000	10.63	33.23	30.61	44.69	57.94	109.40	-51.46	peak
3	5725.000	10.68	33.25	30.61	48.00	61.32	122.20	-60.88	peak
4	5745.000	10.77	33.29	30.60	95.48	108.94	------	------	peak

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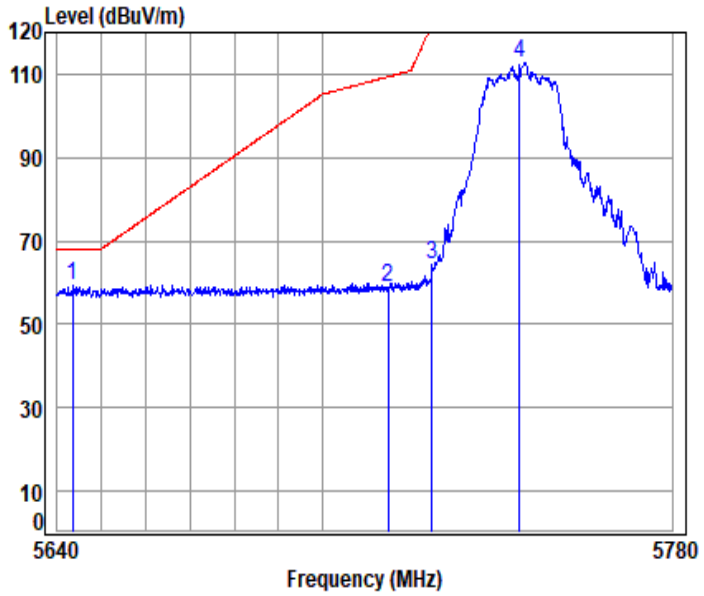
11n_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.458	10.48	33.09	30.64	46.44	59.37	68.20	-8.83	peak
2	5715.000	10.63	33.23	30.61	45.41	58.66	109.40	-50.74	peak
3	5725.000	10.68	33.25	30.61	50.88	64.20	122.20	-58.00	peak
4	5745.000	10.77	33.29	30.60	99.15	112.61	------	------	peak

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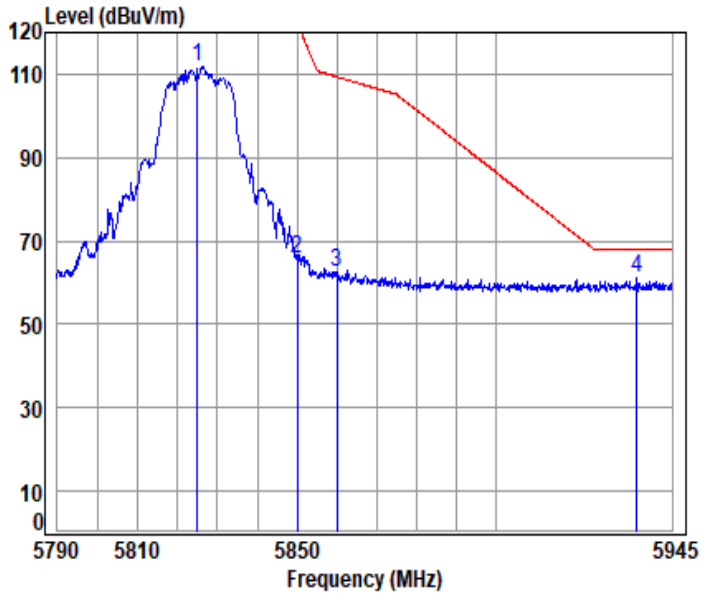
11n_HT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	98.04	111.96	------	------	peak
2	5850.000	10.95	33.60	30.56	51.72	65.71	122.20	-56.49	peak
3	5860.000	10.94	33.58	30.56	48.51	62.47	109.40	-46.93	peak
4 pp	5936.055	10.86	33.57	30.53	47.17	61.07	68.20	-7.13	peak

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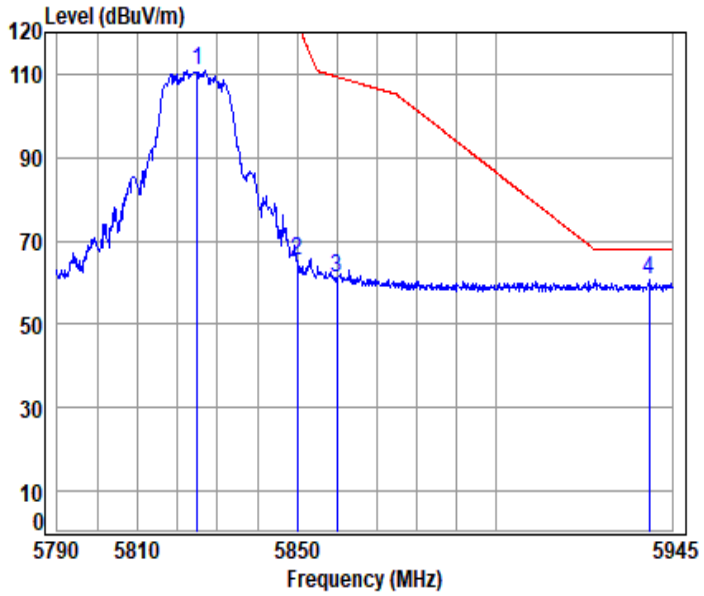
11n_HT(20M)_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11N20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	97.00	110.92	------	------	peak
2	5850.000	10.95	33.60	30.56	51.11	65.10	122.20	-57.10	peak
3	5860.000	10.94	33.58	30.56	47.22	61.18	109.40	-48.22	peak
4 pp	5939.192	10.86	33.58	30.52	46.79	60.71	68.20	-7.49	peak

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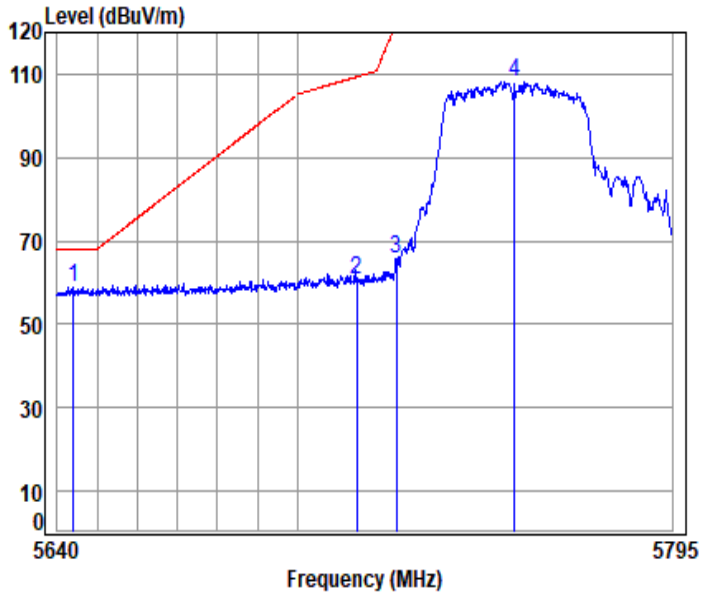
11n_HT(40M)_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5755 Band edge
: 5.8GWIFI 11N40 MIMO

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5644.130	10.48	33.09	30.64	45.92	58.85	68.20	-9.35	peak
2		5715.000	10.63	33.23	30.61	47.59	60.84	109.40	-48.56	peak
3		5725.000	10.68	33.25	30.61	52.27	65.59	122.20	-56.61	peak
4		5755.000	10.81	33.31	30.60	94.44	107.96	------	------	peak

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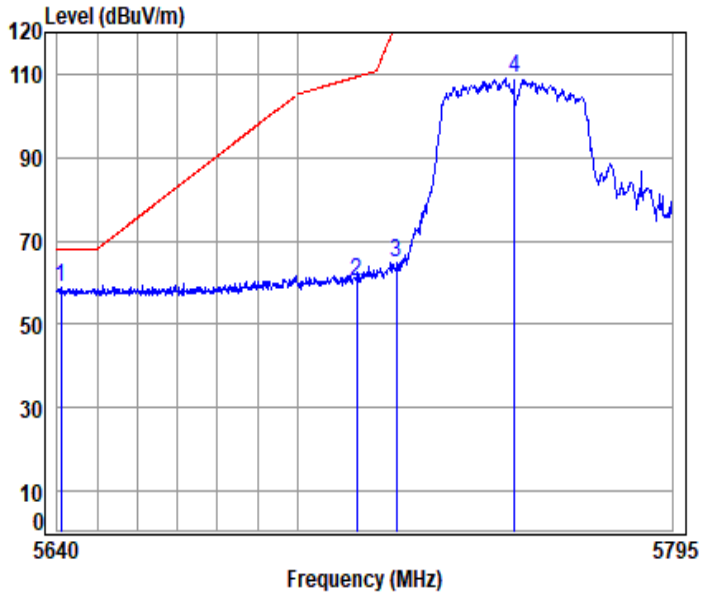
11n_HT(40M)_TX_CH_151_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5755 Band edge
: 5.8GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.917	10.47	33.08	30.64	46.00	58.91	68.20	-9.29	peak
2	5715.000	10.63	33.23	30.61	47.19	60.44	109.40	-48.96	peak
3	5725.000	10.68	33.25	30.61	51.35	64.67	122.20	-57.53	peak
4	5755.000	10.81	33.31	30.60	95.38	108.90	------	------	peak

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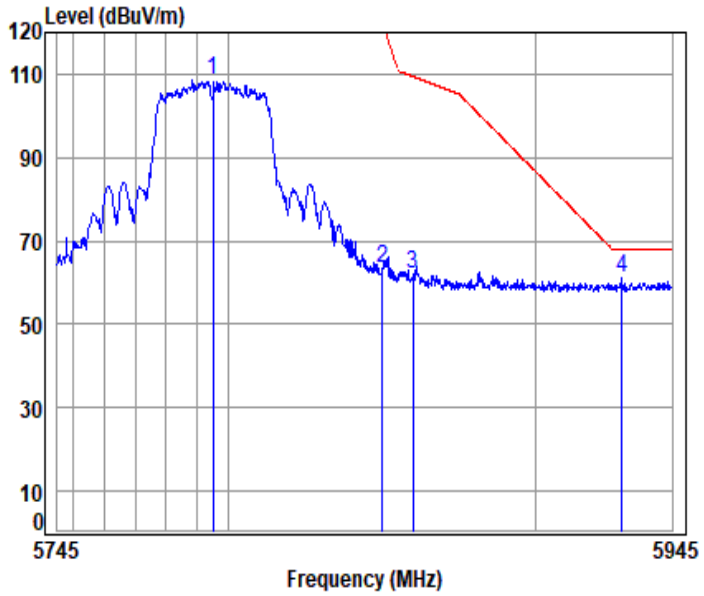
11n_HT(40M)_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5795 Band edge
: 5.8GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	94.69	108.50	------	------	peak
2	5850.000	10.95	33.60	30.56	49.64	63.63	122.20	-58.57	peak
3	5860.000	10.94	33.58	30.56	47.90	61.86	109.40	-47.54	peak
4 pp	5928.544	10.87	33.56	30.53	47.05	60.95	68.20	-7.25	peak

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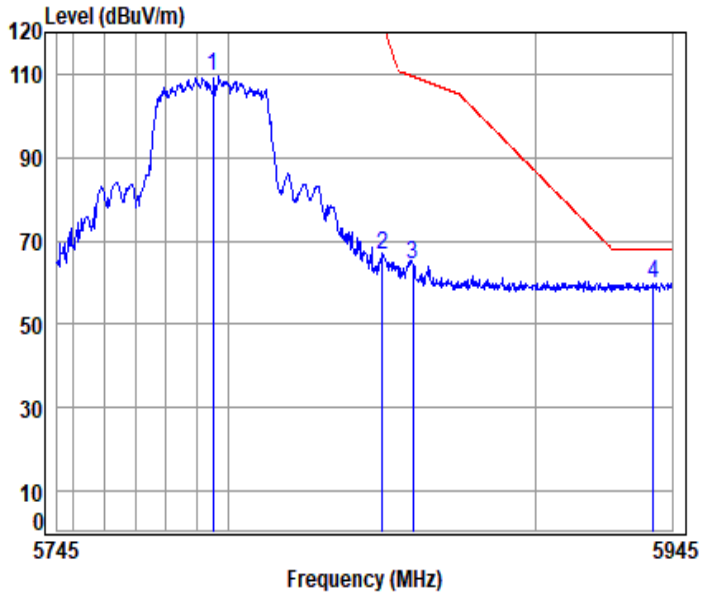
11n_HT(40M)_TX_CH_159_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5795 Band edge
: 5.8GWIFI 11N40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	95.55	109.36	------	------	peak
2	5850.000	10.95	33.60	30.56	52.67	66.66	122.20	-55.54	peak
3	5860.000	10.94	33.58	30.56	50.55	64.51	109.40	-44.89	peak
4 pp	5938.900	10.86	33.58	30.52	45.96	59.88	68.20	-8.32	peak

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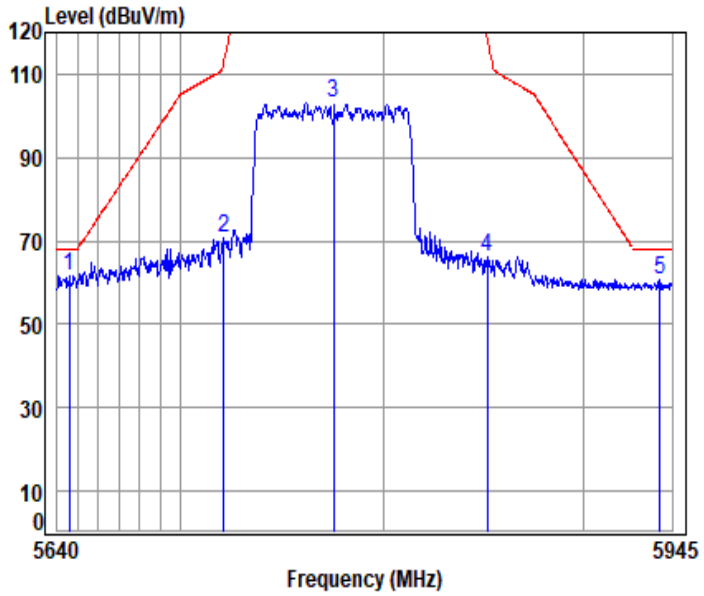
11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5775 Band edge
: 5.8GWIFI 11AC80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5645.944	10.48	33.09	30.64	48.73	61.66	68.20	-6.54	Peak
2	5721.075	10.66	33.24	30.61	57.49	70.78	113.25	-42.47	peak
3	5775.000	10.91	33.35	30.59	89.36	103.03	------	------	peak
4	5851.500	10.95	33.60	30.56	52.14	66.13	118.78	-52.65	peak
5	5939.054	10.86	33.58	30.52	46.54	60.46	68.20	-7.74	peak

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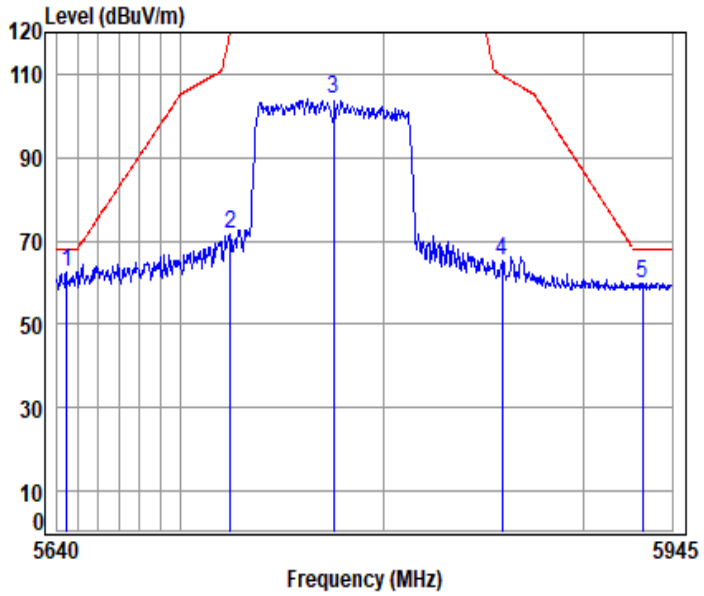
11ac_VHT(80M)_TX_CH_155_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5775 Band edge
: 5.8GWIFI 11AC80 MIMO

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5644.458	10.48	33.09	30.64	49.63	62.56	68.20	-5.64	Peak
2		5724.390	10.67	33.25	30.61	58.48	71.79	120.81	-49.02	peak
3		5775.000	10.91	33.35	30.59	90.30	103.97	------	------	peak
4		5859.209	10.94	33.58	30.56	51.33	65.29	109.62	-44.33	peak
5		5929.990	10.87	33.56	30.53	46.02	59.92	68.20	-8.28	peak

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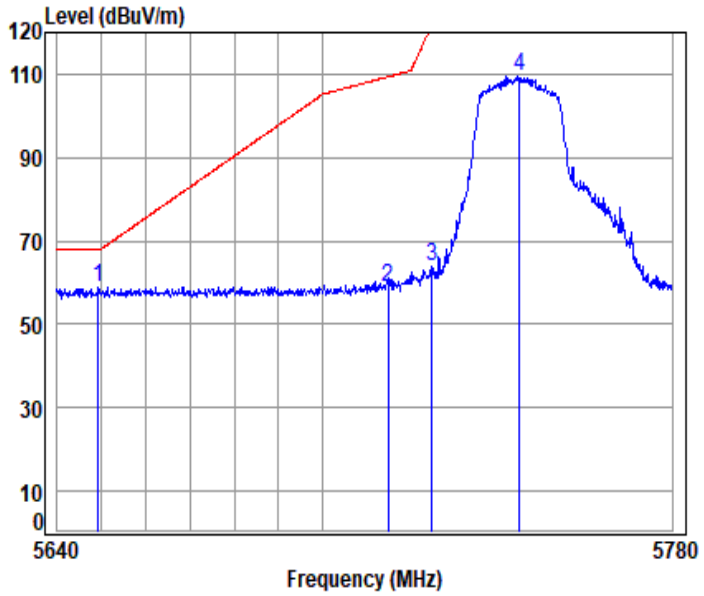
11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5649.135	10.48	33.10	30.64	46.04	58.98	68.20	-9.22	peak
2	5715.000	10.63	33.23	30.61	45.82	59.07	109.40	-50.33	peak
3	5725.000	10.68	33.25	30.61	50.52	63.84	122.20	-58.36	peak
4	5745.000	10.77	33.29	30.60	95.97	109.43	------	------	peak

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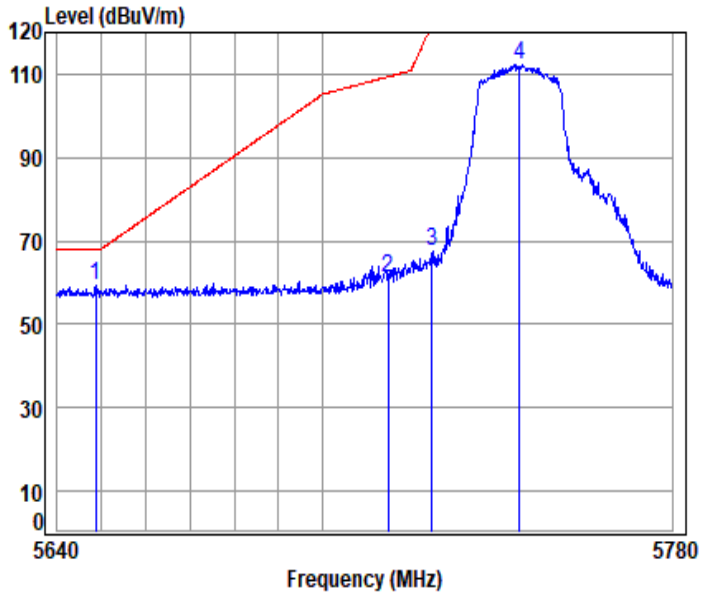
11ax_20M_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.581	10.48	33.10	30.64	46.18	59.12	68.20	-9.08	peak
2	5715.000	10.63	33.23	30.61	47.99	61.24	109.40	-48.16	peak
3	5725.000	10.68	33.25	30.61	54.13	67.45	122.20	-54.75	peak
4	5745.000	10.77	33.29	30.60	98.98	112.44	------	------	peak

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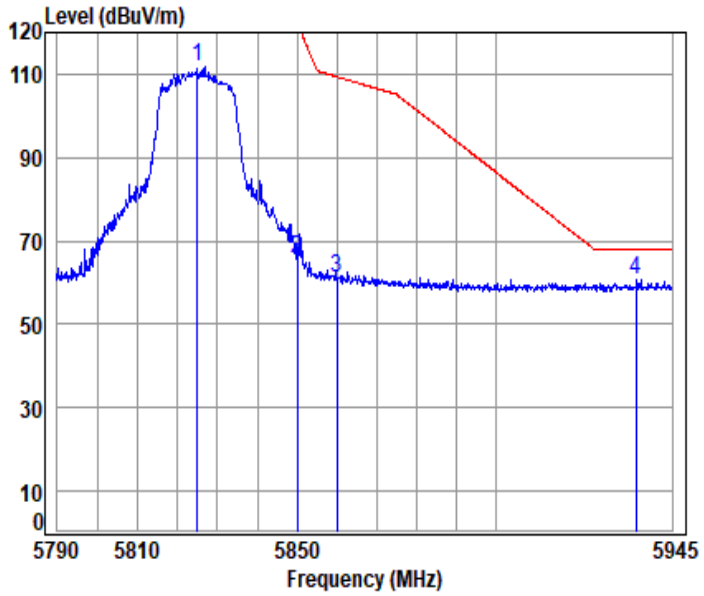
11ax_20M_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	97.93	111.85	------	------	peak
2	5850.000	10.95	33.60	30.56	51.62	65.61	122.20	-56.59	peak
3	5860.000	10.94	33.58	30.56	47.21	61.17	109.40	-48.23	peak
4 pp	5935.897	10.86	33.57	30.53	46.74	60.64	68.20	-7.56	peak

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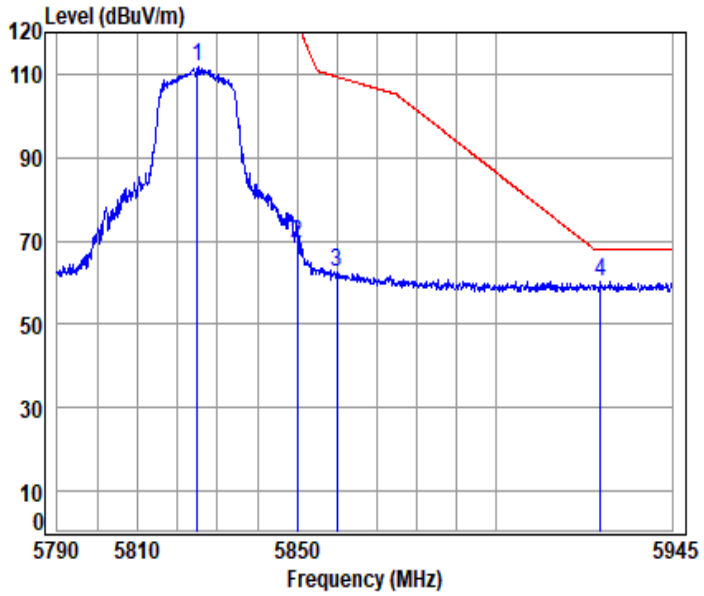
11ax_20M_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11AX20 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	98.04	111.96	------	------	peak
2	5850.000	10.95	33.60	30.56	55.31	69.30	122.20	-52.90	peak
3	5860.000	10.94	33.58	30.56	48.75	62.71	109.40	-46.69	peak
4 pp	5926.653	10.87	33.55	30.53	46.38	60.27	68.20	-7.93	peak

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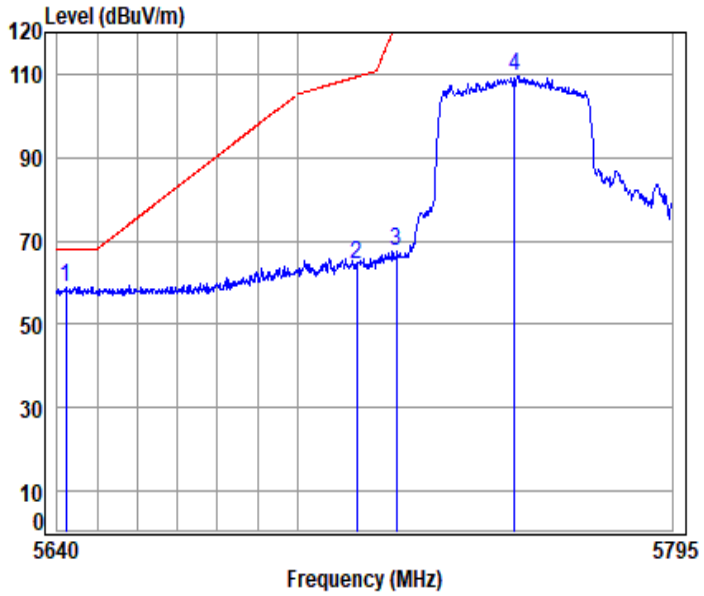
11ax_40M_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5755 Band edge
: 5.8GWIFI 11AX40 MIMO

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5642.141	10.47	33.08	30.64	46.14	59.05	68.20	-9.15	peak
2		5715.000	10.63	33.23	30.61	50.95	64.20	109.40	-45.20	peak
3		5725.000	10.68	33.25	30.61	54.30	67.62	122.20	-54.58	peak
4		5755.000	10.81	33.31	30.60	95.94	109.46	------	------	peak

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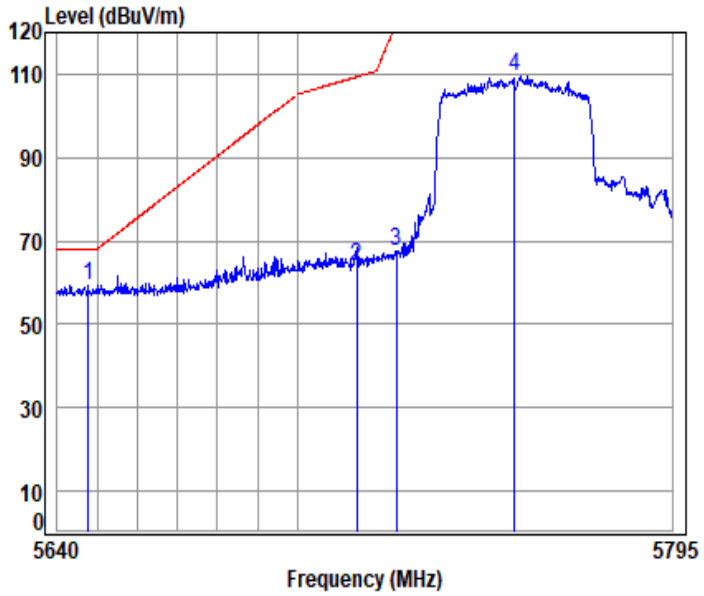
11ax_40M_TX_CH_151_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5755 Band edge
: 5.8GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5647.804	10.48	33.10	30.64	46.23	59.17	68.20	-9.03	peak
2	5715.000	10.63	33.23	30.61	50.85	64.10	109.40	-45.30	peak
3	5725.000	10.68	33.25	30.61	54.05	67.37	122.20	-54.83	peak
4	5755.000	10.81	33.31	30.60	96.15	109.67	------	------	peak

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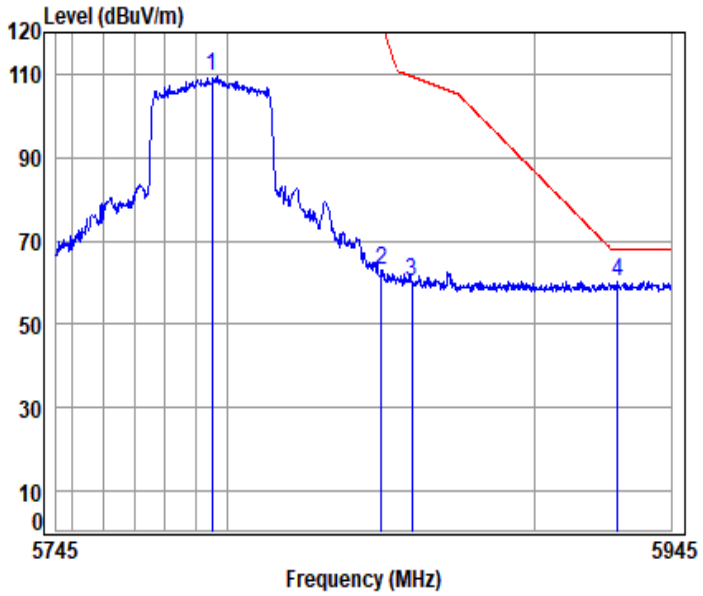
11ax_40M_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5795 Band edge
: 5.8GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	95.52	109.33	------	------	peak
2	5850.000	10.95	33.60	30.56	48.77	62.76	122.20	-59.44	peak
3	5860.000	10.94	33.58	30.56	46.16	60.12	109.40	-49.28	peak
4 pp	5927.327	10.87	33.55	30.53	46.51	60.40	68.20	-7.80	peak

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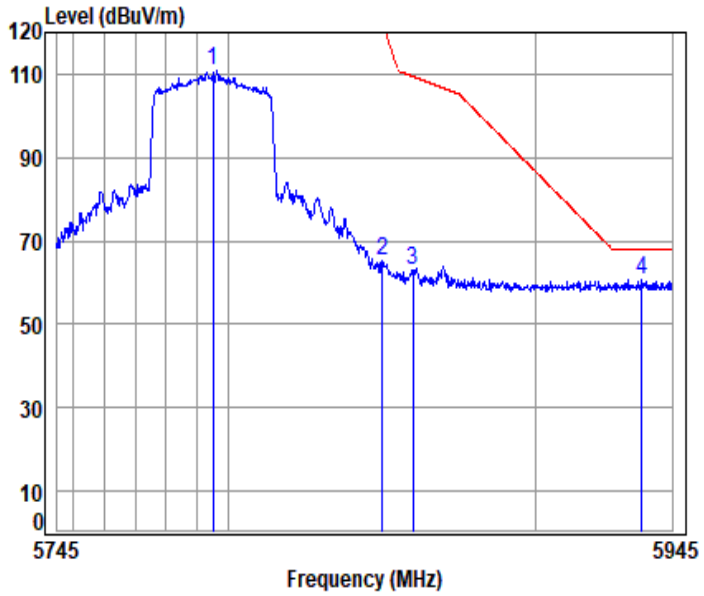
11ax_40M_TX_CH_159_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5795 Band edge
: 5.8GWIFI 11AX40 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	97.20	111.01	------	------	peak
2	5850.000	10.95	33.60	30.56	51.09	65.08	122.20	-57.12	peak
3	5860.000	10.94	33.58	30.56	49.20	63.16	109.40	-46.24	peak
4 pp	5935.040	10.86	33.57	30.53	46.86	60.76	68.20	-7.44	peak

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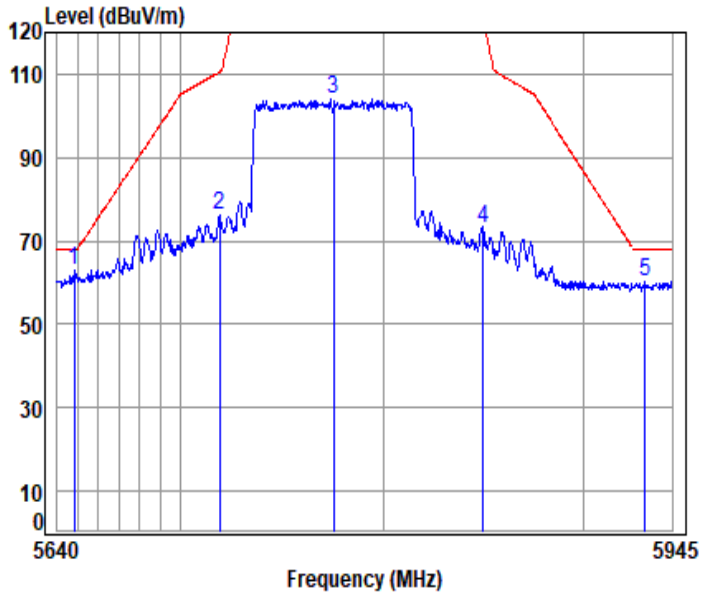
11ax_80M_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5775 Band edge
: 5.8GWIFI 11AX80 MIMO

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5648.323	10.48	33.10	30.64	49.84	62.78	68.20	-5.42	Peak
2		5718.966	10.65	33.24	30.61	62.99	76.27	110.51	-34.24	peak
3		5775.000	10.91	33.35	30.59	90.38	104.05	------	------	peak
4		5849.650	10.96	33.60	30.56	59.15	73.15	------	------	peak
5		5931.239	10.87	33.56	30.53	46.15	60.05	68.20	-8.15	peak

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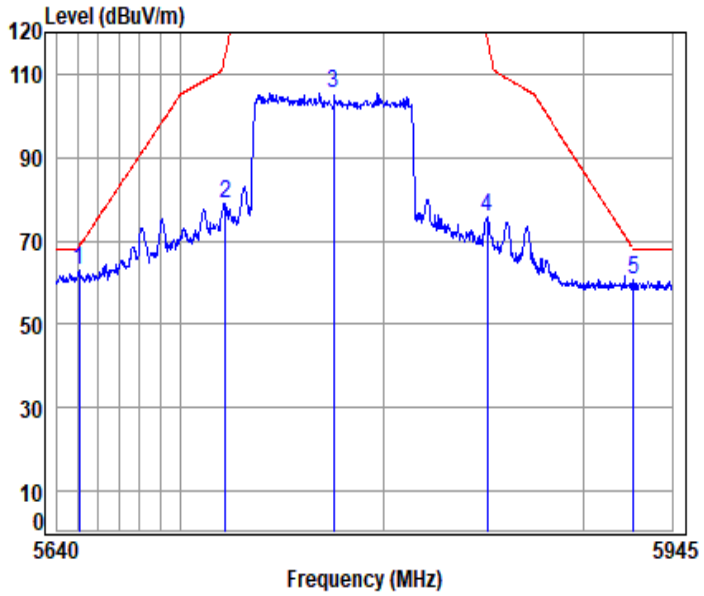
11ax_80M_TX_CH_155_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5775 Band edge
: 5.8GWIFI 11AX80 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5650.704	10.49	33.10	30.64	50.07	63.02	68.72	-5.70	Peak
2	5721.677	10.66	33.24	30.61	65.87	79.16	114.62	-35.46	peak
3	5775.000	10.91	33.35	30.59	91.64	105.31	------	------	peak
4	5851.500	10.95	33.60	30.56	61.64	75.63	118.78	-43.15	peak
5	5925.307	10.87	33.55	30.53	46.65	60.54	68.20	-7.66	peak

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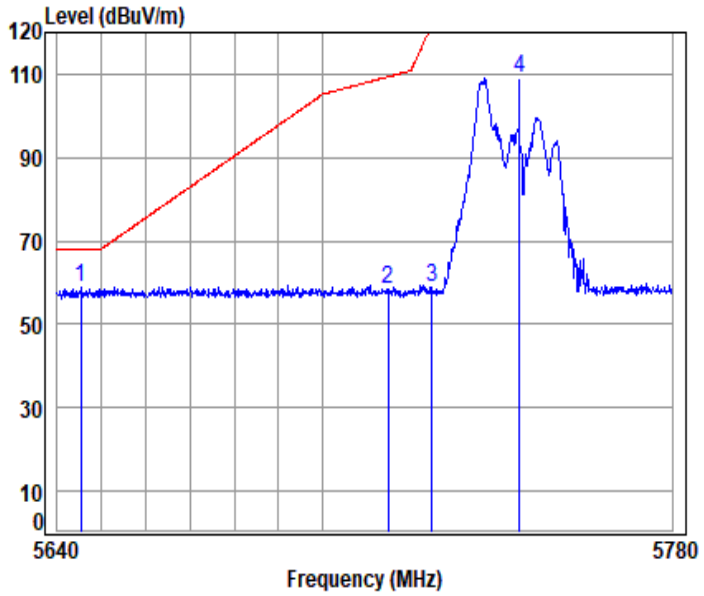
11ax_20M_Partial_RU26_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5645.396	10.48	33.09	30.64	45.83	58.76	68.20	-9.44	peak
2	5715.000	10.63	33.23	30.61	45.20	58.45	109.40	-50.95	peak
3	5725.000	10.68	33.25	30.61	45.46	58.78	122.20	-63.42	peak
4	5745.000	10.77	33.29	30.60	95.71	109.17	------	------	peak

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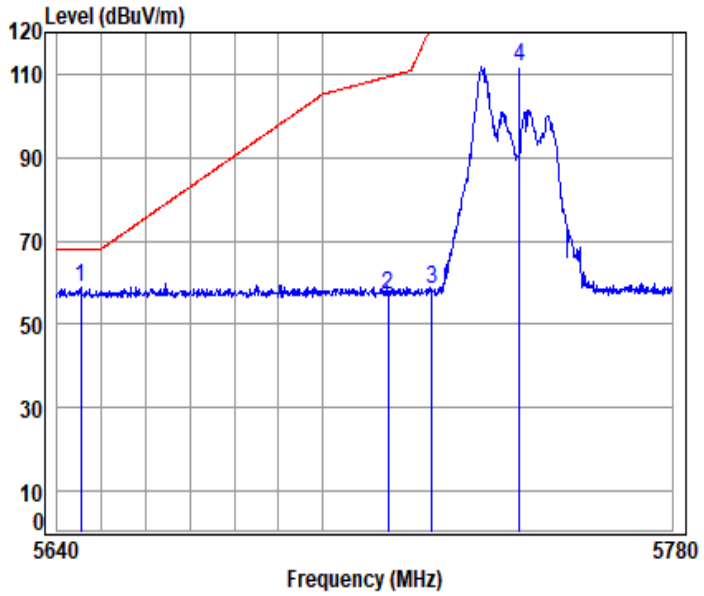
11ax_20M_Partial_RU26_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5745 Band edge
: 5.8GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5645.257	10.48	33.09	30.64	45.77	58.70	68.20	-9.50	peak
2	5715.000	10.63	33.23	30.61	43.59	56.84	109.40	-52.56	peak
3	5725.000	10.68	33.25	30.61	44.95	58.27	122.20	-63.93	peak
4	5745.000	10.77	33.29	30.60	98.32	111.78	------	------	peak

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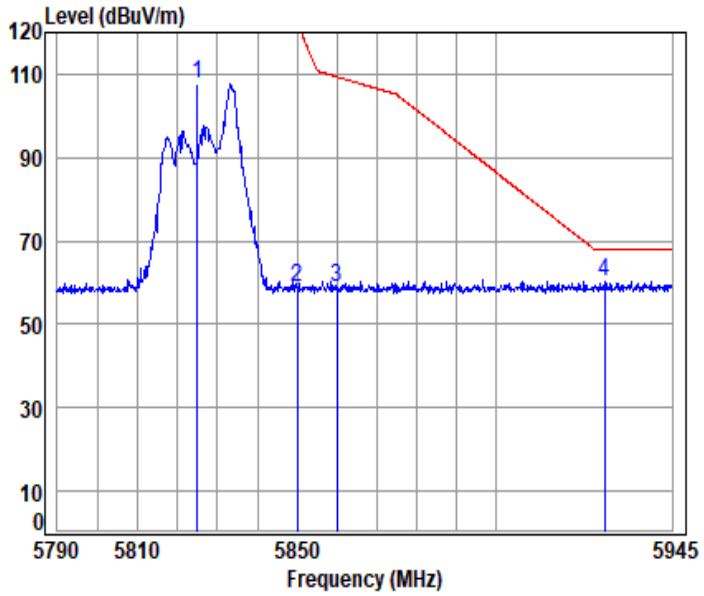
11ax_20M_Partial_RU26_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	93.86	107.78	------	------	peak
2	5850.000	10.95	33.60	30.56	44.90	58.89	122.20	-63.31	peak
3	5860.000	10.94	33.58	30.56	45.08	59.04	109.40	-50.36	peak
4 pp	5927.905	10.87	33.56	30.53	46.22	60.12	68.20	-8.08	peak

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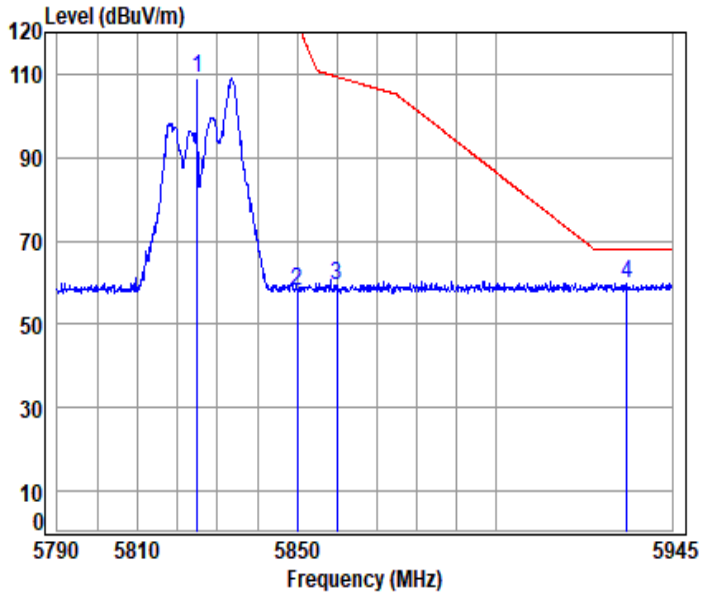
11ax_20M_Partial_RU26_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5825 Band edge
: 5.8GWIFI 11AX20_RU26 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	95.29	109.21	------	------	peak
2	5850.000	10.95	33.60	30.56	43.89	57.88	122.20	-64.32	peak
3	5860.000	10.94	33.58	30.56	45.25	59.21	109.40	-50.19	peak
4 pp	5933.546	10.86	33.57	30.53	46.02	59.92	68.20	-8.28	peak

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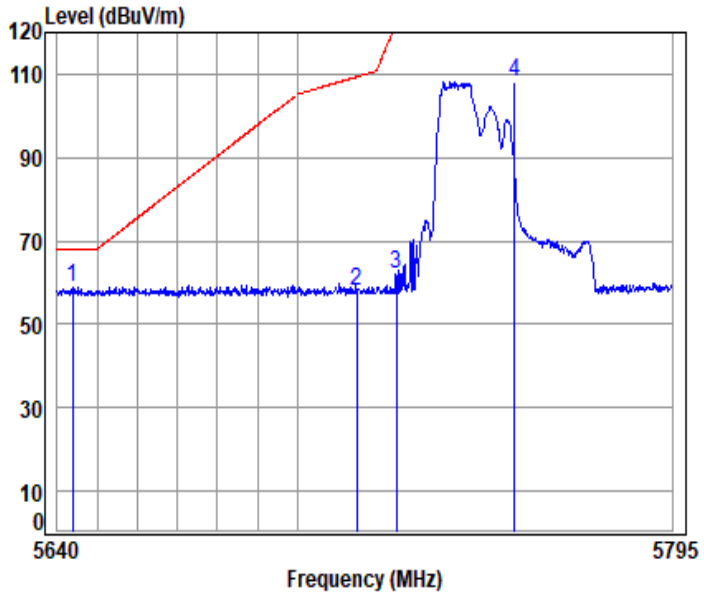
11ax_40M_Partial_RU106_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5755 Band edge
: 5.8GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.824	10.48	33.09	30.64	45.98	58.91	68.20	-9.29	peak
2	5715.000	10.63	33.23	30.61	44.64	57.89	109.40	-51.51	peak
3	5725.000	10.68	33.25	30.61	48.88	62.20	122.20	-60.00	peak
4	5755.000	10.81	33.31	30.60	94.62	108.14	------	------	peak

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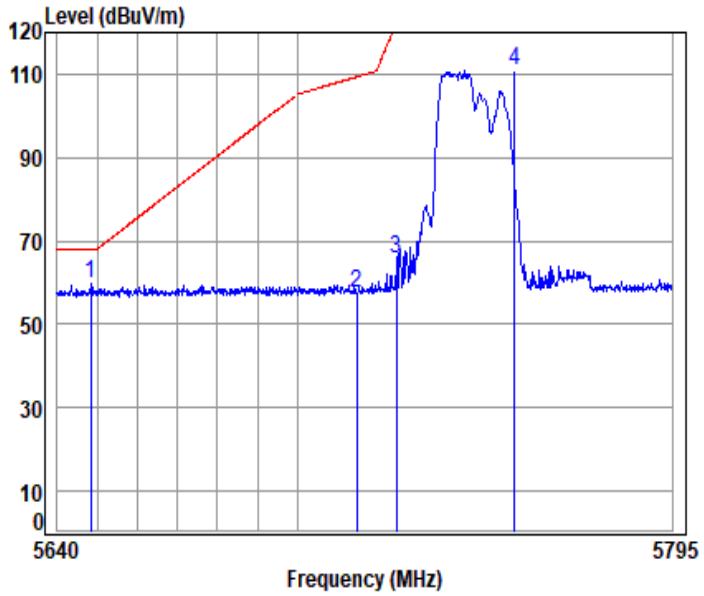
11ax_40M_Partial_RU106_TX_CH_151_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5755 Band edge
: 5.8GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.263	10.48	33.10	30.64	46.62	59.56	68.20	-8.64	peak
2	5715.000	10.63	33.23	30.61	44.32	57.57	109.40	-51.83	peak
3	5725.000	10.68	33.25	30.61	52.19	65.51	122.20	-56.69	peak
4	5755.000	10.81	33.31	30.60	97.21	110.73	------	------	peak

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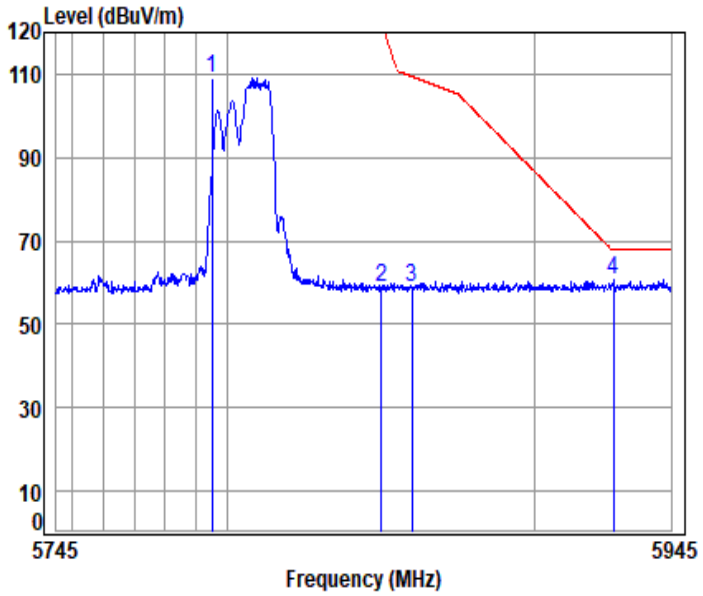
11ax_40M_Partial_RU106_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5795 Band edge
: 5.8GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	95.32	109.13	------	------	peak
2	5850.000	10.95	33.60	30.56	44.94	58.93	122.20	-63.27	peak
3	5860.000	10.94	33.58	30.56	45.01	58.97	109.40	-50.43	peak
4 pp	5926.110	10.87	33.55	30.53	46.77	60.66	68.20	-7.54	peak

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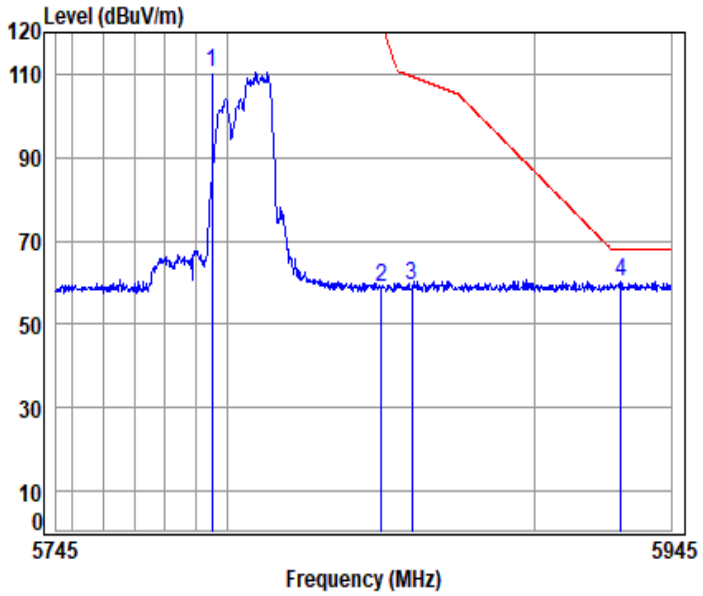
11ax_40M_Partial_RU106_TX_CH_159_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5795 Band edge
: 5.8GWIFI 11AX40_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	96.50	110.31	------	------	peak
2	5850.000	10.95	33.60	30.56	44.93	58.92	122.20	-63.28	peak
3	5860.000	10.94	33.58	30.56	45.15	59.11	109.40	-50.29	peak
4 pp	5928.544	10.87	33.56	30.53	46.12	60.02	68.20	-8.18	peak

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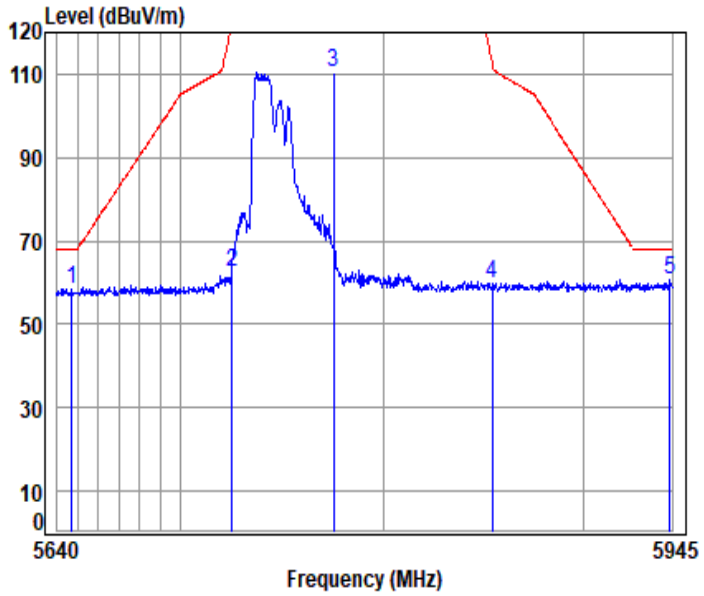
11ax_80M_Partial_RU106_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 5775 Band edge
: 5.8GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5646.836	10.48	33.09	30.64	45.45	58.38	68.20	-9.82	Peak
2	5724.993	10.67	33.25	30.61	49.00	62.31	122.18	-59.87	peak
3	5775.000	10.91	33.35	30.59	96.55	110.22	------	------	peak
4	5854.273	10.95	33.59	30.56	45.93	59.91	112.46	-52.55	peak
5 pp	5944.061	10.85	33.59	30.52	46.63	60.55	68.20	-7.65	peak

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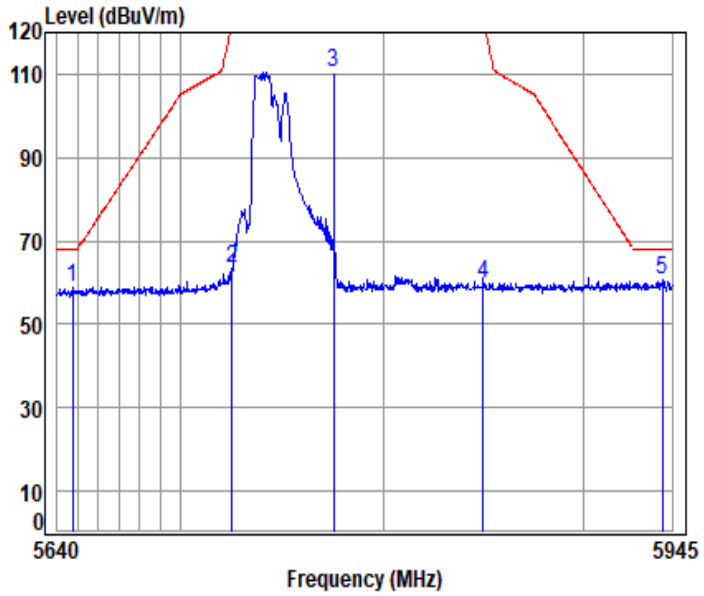
11ax_80M_Partial_RU106_TX_CH_155_Vertical



Condition: 3m VERTICAL
Job No : 03604WM
Mode : 5775 Band edge
: 5.8GWIFI 11AX80_RU106 MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5647.431	10.48	33.09	30.64	45.78	58.71	68.20	-9.49	Peak
2	5724.993	10.67	33.25	30.61	50.02	63.33	122.18	-58.85	peak
3	5775.000	10.91	33.35	30.59	96.58	110.25	------	------	peak
4	5849.650	10.96	33.60	30.56	45.98	59.98	------	------	peak
5 pp	5939.993	10.86	33.58	30.52	46.64	60.56	68.20	-7.64	peak

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7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

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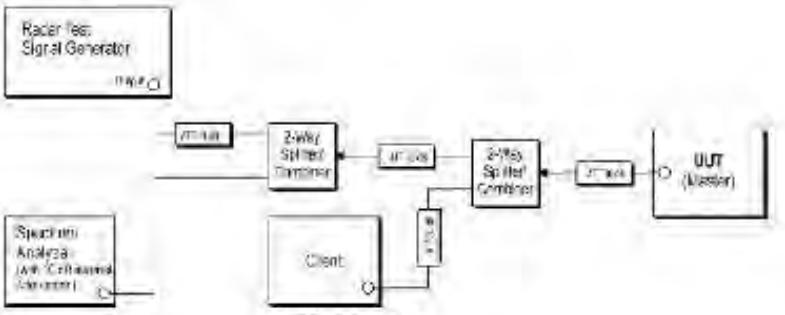
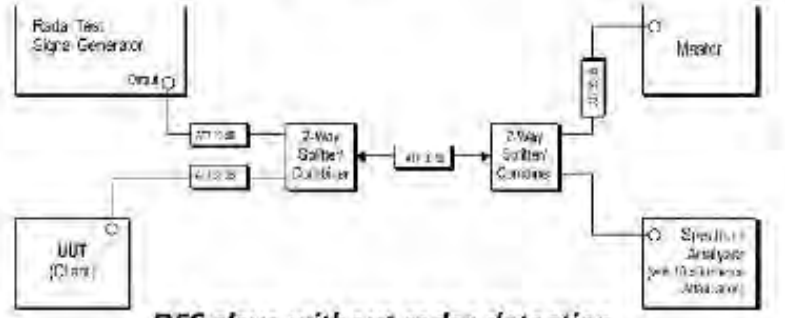
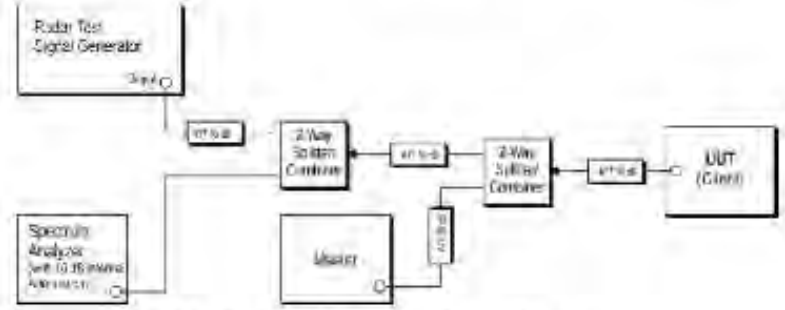
7.6.2 Test Setup Diagram



DFS Master



DFS slave without radar detection



DFS slave with radar detection

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7.6.3 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

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7.7 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 D02 II B 1

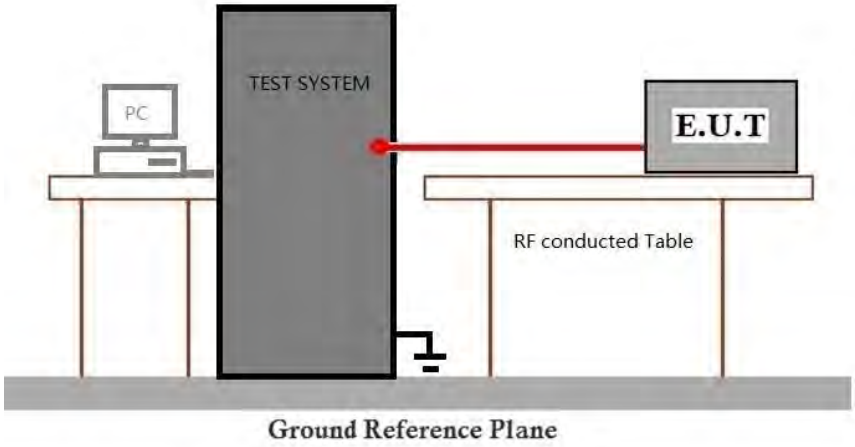
7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 D02 II D

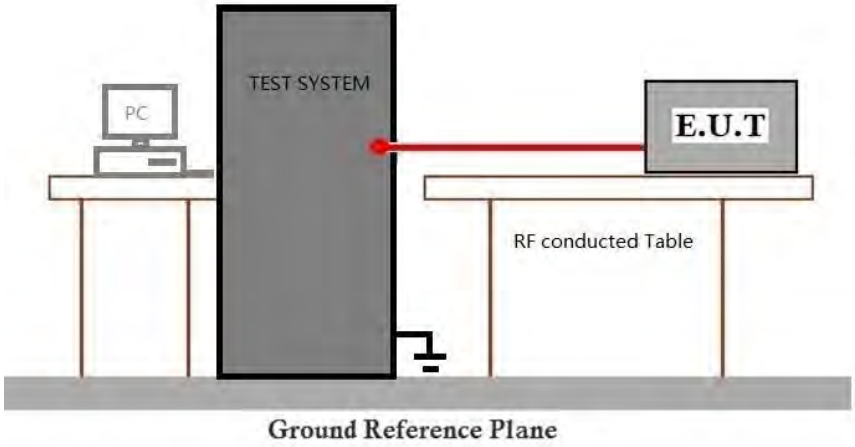
7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II C 1

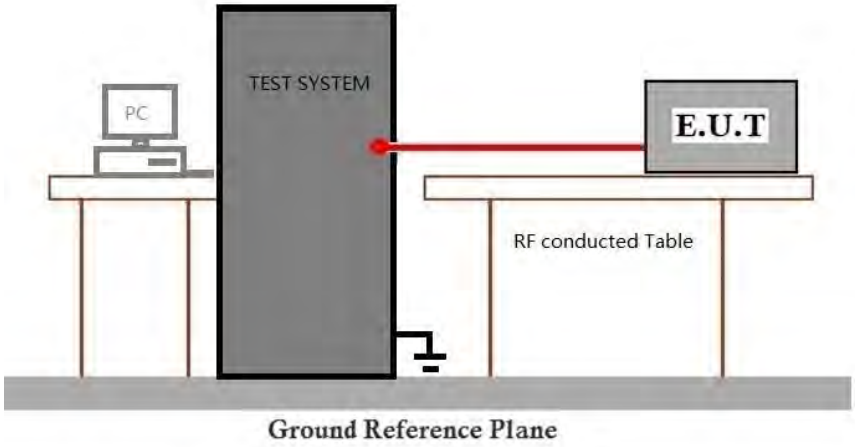
7.9.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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7.10 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	⩾500 kHz

7.10.1 E.U.T. Operation

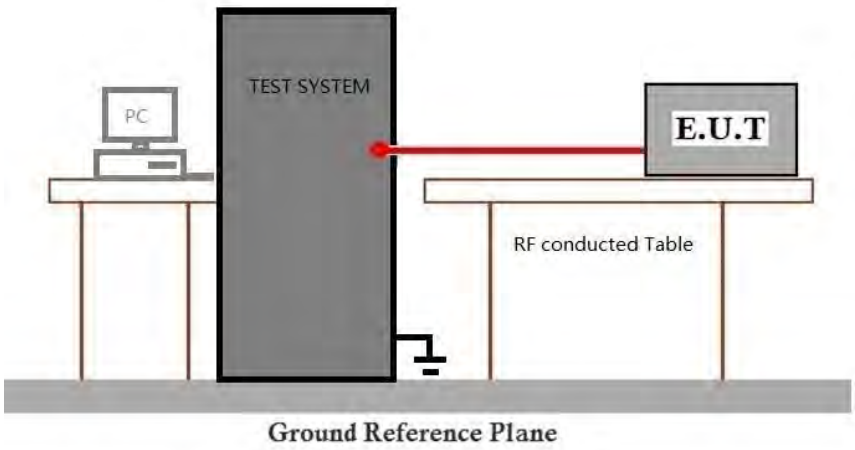
Operating Environment:

Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.11 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

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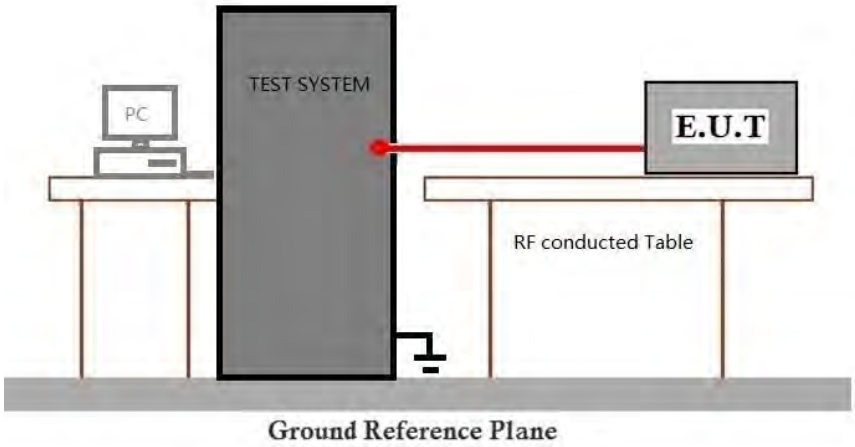
7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.12.1 Measurement Procedure and Data

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

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7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

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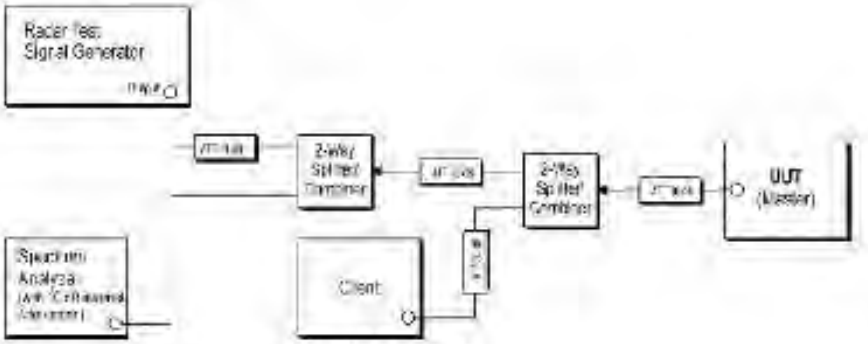
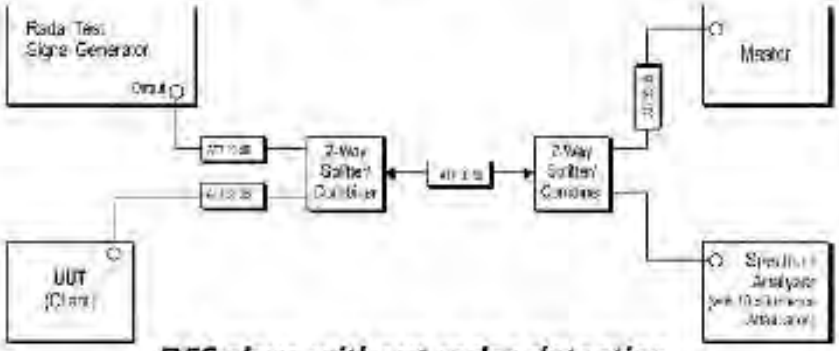
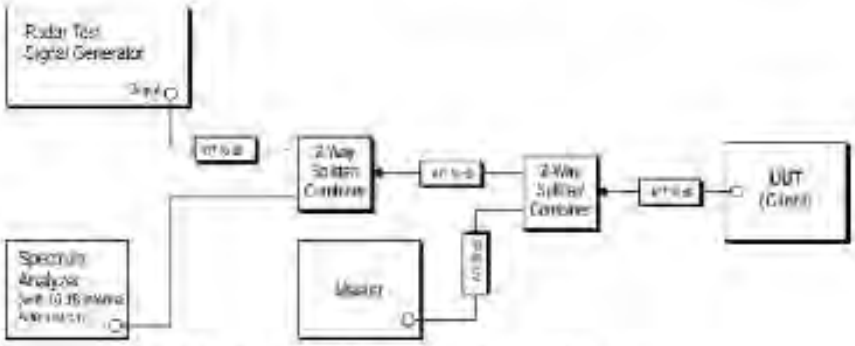
7.13.2 Test Setup Diagram



DFS Master



DFS slave without radar detection



DFS slave with radar detection

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7.13.3 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

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7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

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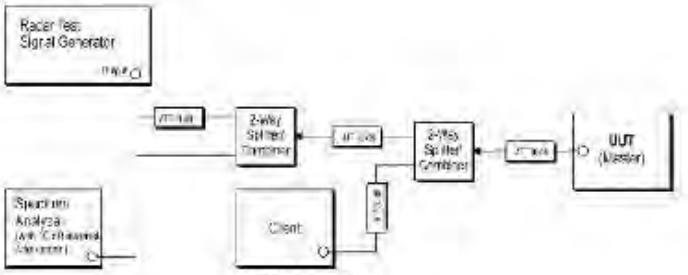
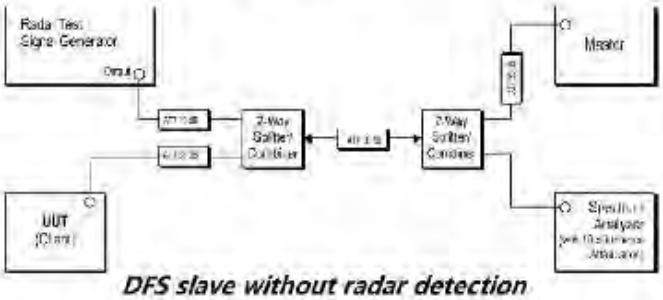
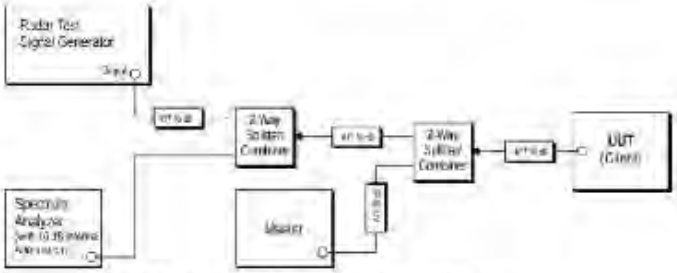
7.14.2 Test Setup Diagram



DFS Master



DFS slave without radar detection



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2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

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Shenzhen Branch Testing Center LLC Laboratory

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8 Test Setup Photo

Please refer to SZCR2409003604 Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Please refer to SZCR2409003604 Appendix_EUT Photo

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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant9

Ant9									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	1.393	1.435	97.07	0.13	0.03
		5200	/	/	1.393	1.436	97.01	0.13	0.07
		5240	/	/	1.393	1.435	97.07	0.13	0.06
		5260	/	/	1.392	1.435	97.00	0.13	0.04
		5300	/	/	1.391	1.435	96.93	0.14	0.03
		5320	/	/	1.393	1.435	97.07	0.13	0.00
		5500	/	/	1.392	1.435	97.00	0.13	0.03
		5580	/	/	1.393	1.435	97.07	0.13	0.03
		5700	/	/	1.392	1.435	97.00	0.13	0.00
		5745	/	/	1.393	1.435	97.07	0.13	0.00
		5785	/	/	1.392	1.435	97.00	0.13	0.00
		5825	/	/	1.392	1.435	97.00	0.13	0.03
802.11n (HT20)	MIMO	5180	/	/	1.301	1.343	96.87	0.14	0.03
		5200	/	/	1.301	1.343	96.87	0.14	0.07
		5240	/	/	1.300	1.342	96.87	0.14	0.00
		5260	/	/	1.300	1.343	96.80	0.14	0.03
		5300	/	/	1.301	1.343	96.87	0.14	0.00
		5320	/	/	1.301	1.343	96.87	0.14	0.03
		5500	/	/	1.301	1.343	96.87	0.14	0.03
		5580	/	/	1.300	1.343	96.80	0.14	0.07
		5700	/	/	1.301	1.344	96.80	0.14	0.03
		5745	/	/	1.300	1.343	96.80	0.14	0.03
		5785	/	/	1.300	1.343	96.80	0.14	0.03
		5825	/	/	1.301	1.343	96.87	0.14	0.03
802.11n (HT40)	MIMO	5190	/	/	0.645	0.687	93.89	0.27	0.07
		5230	/	/	0.645	0.688	93.75	0.28	0.07
		5270	/	/	0.644	0.687	93.74	0.28	0.07

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		5310	/	/	0.644	0.687	93.74	0.28	0.07
		5510	/	/	0.645	0.688	93.75	0.28	0.07
		5550	/	/	0.645	0.687	93.89	0.27	0.04
		5670	/	/	0.644	0.687	93.74	0.28	0.03
		5755	/	/	0.645	0.688	93.75	0.28	0.13
		5795	/	/	0.644	0.687	93.74	0.28	0.13
802.11ac (VHT20)	MIMO	5180	/	/	1.308	1.351	96.82	0.14	0.00
		5200	/	/	1.308	1.351	96.82	0.14	0.03
		5240	/	/	1.309	1.351	96.89	0.14	0.04
		5260	/	/	1.308	1.351	96.82	0.14	0.00
		5300	/	/	1.309	1.351	96.89	0.14	0.03
		5320	/	/	1.309	1.351	96.89	0.14	0.03
		5500	/	/	1.308	1.351	96.82	0.14	0.00
		5580	/	/	1.309	1.351	96.89	0.14	0.03
		5700	/	/	1.309	1.351	96.89	0.14	0.00
		5745	/	/	1.309	1.351	96.89	0.14	0.03
		5785	/	/	1.308	1.351	96.82	0.14	0.03
		5825	/	/	1.308	1.351	96.82	0.14	0.00
802.11ac (VHT40)	MIMO	5190	/	/	0.652	0.695	93.81	0.28	0.09
		5230	/	/	0.652	0.695	93.81	0.28	0.10
		5270	/	/	0.653	0.696	93.82	0.28	0.13
		5310	/	/	0.652	0.695	93.81	0.28	0.09
		5510	/	/	0.653	0.695	93.96	0.27	0.06
		5550	/	/	0.652	0.695	93.81	0.28	0.07
		5670	/	/	0.653	0.695	93.96	0.27	0.03
		5755	/	/	0.653	0.695	93.96	0.27	0.03
		5795	/	/	0.652	0.695	93.81	0.28	0.03
802.11ac (VHT80)	MIMO	5210	/	/	0.324	0.367	88.28	0.54	0.08
		5290	/	/	0.324	0.367	88.28	0.54	0.16
		5530	/	/	0.325	0.367	88.56	0.53	0.04
		5610	/	/	0.324	0.367	88.28	0.54	0.10
		5775	/	/	0.324	0.368	88.04	0.55	0.13
802.11ac (VHT160)	MIMO	5570	/	/	0.187	0.227	82.38	0.84	0.13
		5250	/	/	0.187	0.228	82.02	0.86	0.26
802.11ax (HEW20)	MIMO	5180	RU242	Left	0.589	0.632	93.20	0.31	0.03
		5200	RU242	Left	0.589	0.632	93.20	0.31	0.03
		5240	RU242	Left	0.589	0.632	93.20	0.31	0.06
		5260	RU242	Left	0.589	0.632	93.20	0.31	0.03
		5300	RU242	Left	0.589	0.632	93.20	0.31	0.00
		5320	RU242	Left	0.589	0.632	93.20	0.31	0.03

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		5500	RU242	Left	0.589	0.632	93.20	0.31	0.03
		5580	RU242	Left	0.589	0.632	93.20	0.31	0.03
		5700	RU242	Left	0.590	0.632	93.35	0.30	0.06
		5745	RU242	Left	0.590	0.632	93.35	0.30	0.09
		5785	RU242	Left	0.589	0.632	93.20	0.31	0.03
		5825	RU242	Left	0.589	0.632	93.20	0.31	0.06
802.11ax (HEW40)	MIMO	5190	RU484	Left	0.579	0.622	93.09	0.31	0.06
		5230	RU484	Left	0.579	0.622	93.09	0.31	0.00
		5270	RU484	Left	0.580	0.622	93.25	0.30	0.03
		5310	RU484	Left	0.579	0.622	93.09	0.31	0.00
		5510	RU484	Left	0.578	0.622	92.93	0.32	0.03
		5550	RU484	Left	0.578	0.622	92.93	0.32	0.06
		5670	RU484	Left	0.579	0.622	93.09	0.31	0.03
		5755	RU484	Left	0.579	0.622	93.09	0.31	0.03
		5795	RU484	Left	0.579	0.622	93.09	0.31	0.03
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.310	0.352	88.07	0.55	0.04
		5290	RU996	Left	0.309	0.352	87.78	0.57	0.08
		5530	RU996	Left	0.309	0.352	87.78	0.57	0.08
		5610	RU996	Left	0.309	0.352	87.78	0.57	0.08
		5775	RU996	Left	0.309	0.352	87.78	0.57	0.16
802.11ax (HEW160)	MIMO	5570	2xRU996	Left	0.186	0.229	81.22	0.90	0.33
		5250	2xRU996	Left	0.174	0.217	80.18	0.96	0.17

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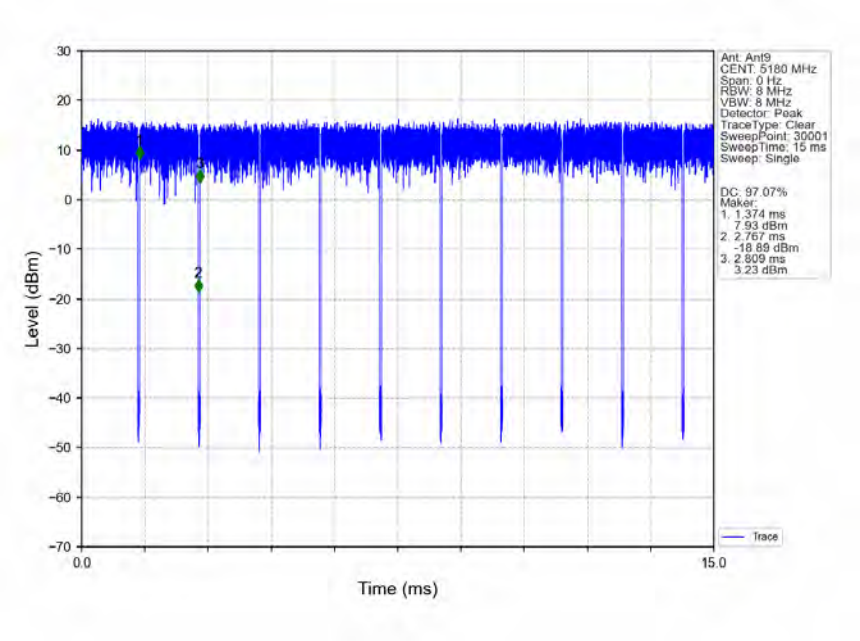
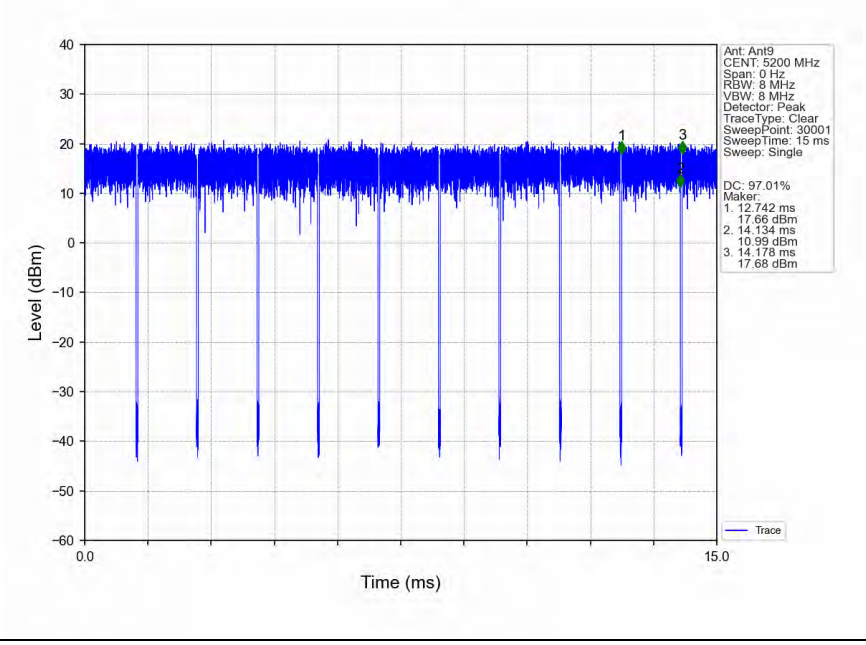
1.2 Test Graph

1.2.1 Ant9

802.11a_LCH_5180MHz_Ant9_NTNV



802.11a_MCH_5200MHz_Ant9_NTNV



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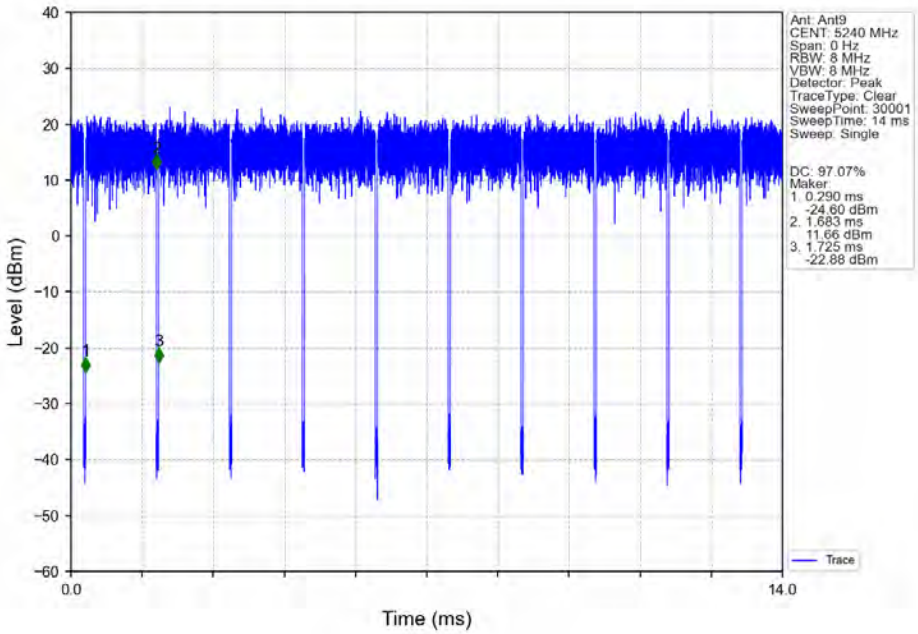
802.11a_HCH_5240MHz_Ant9_NTNV



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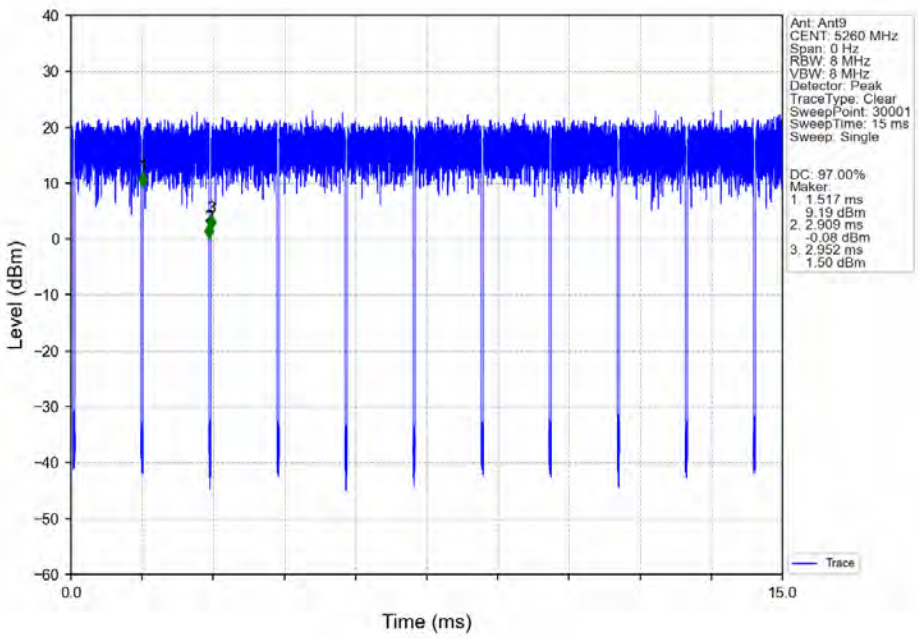

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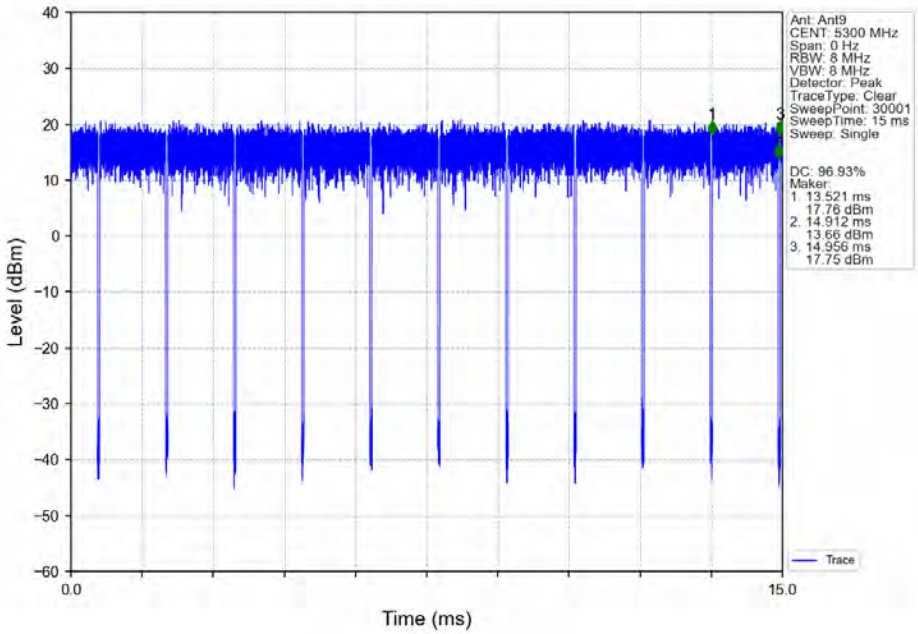
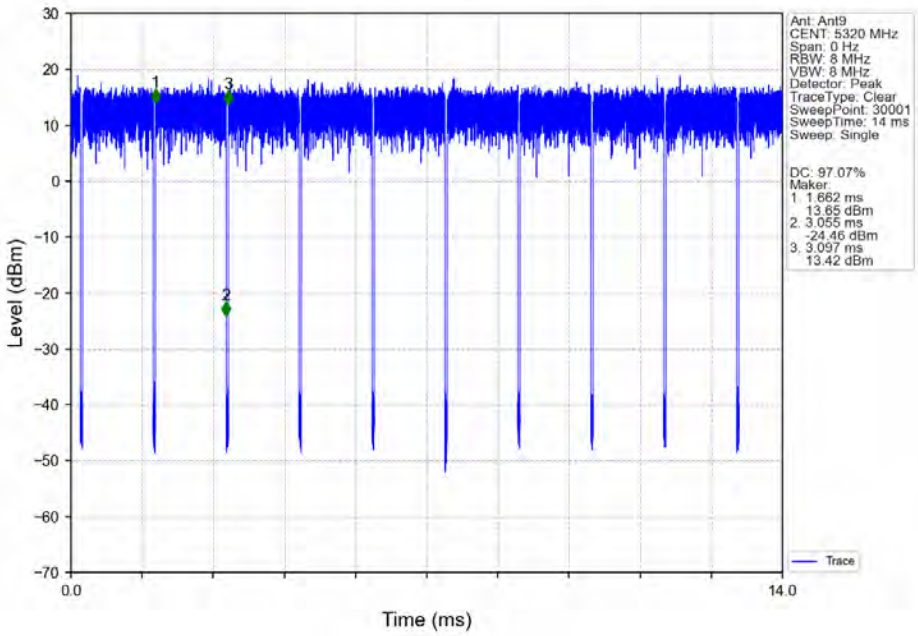
802.11a_MCH_5300MHz_Ant9_NTNV



802.11a_HCH_5320MHz_Ant9_NTNV



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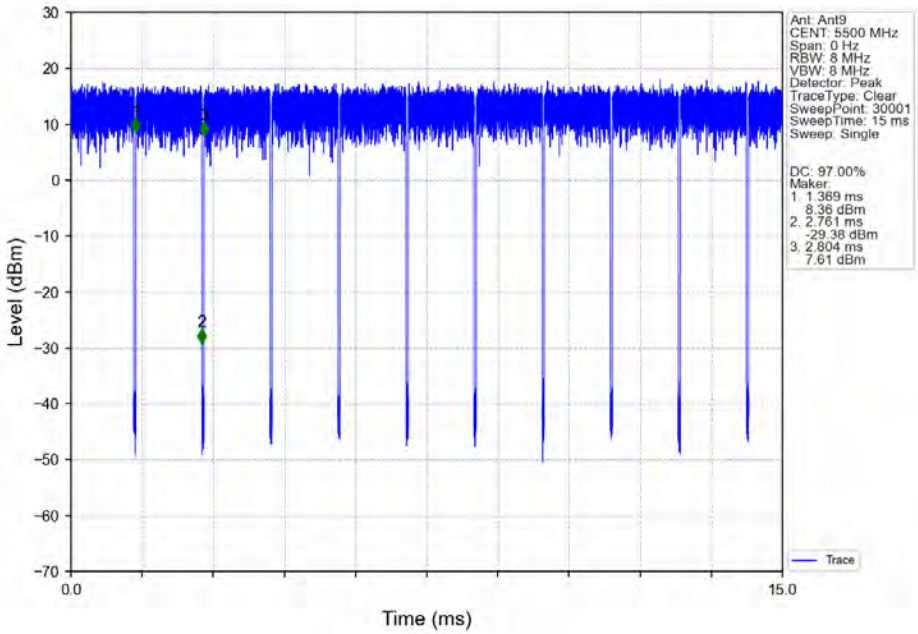
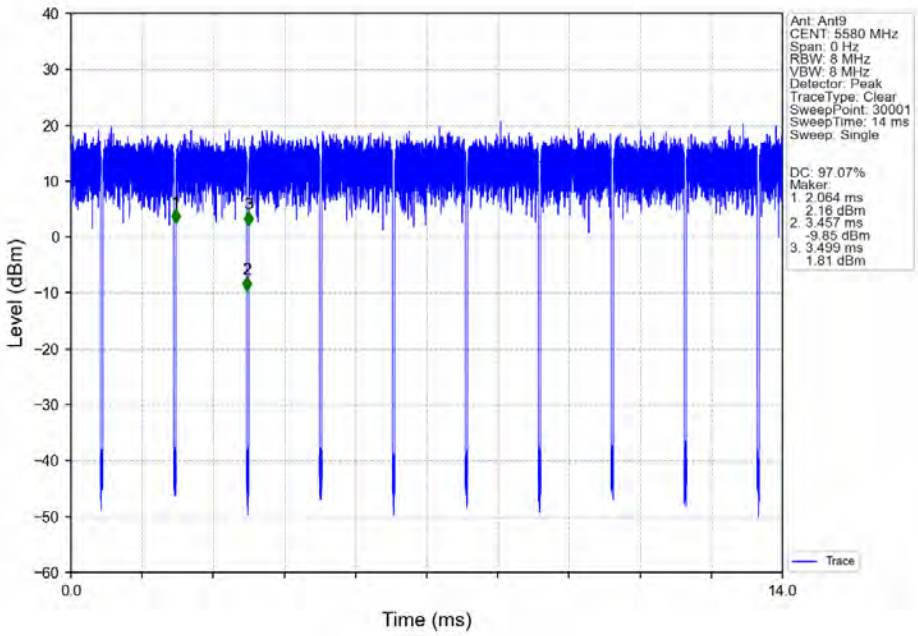
802.11a_LCH_5500MHz_Ant9_NTNV



802.11a_MCH_5580MHz_Ant9_NTNV



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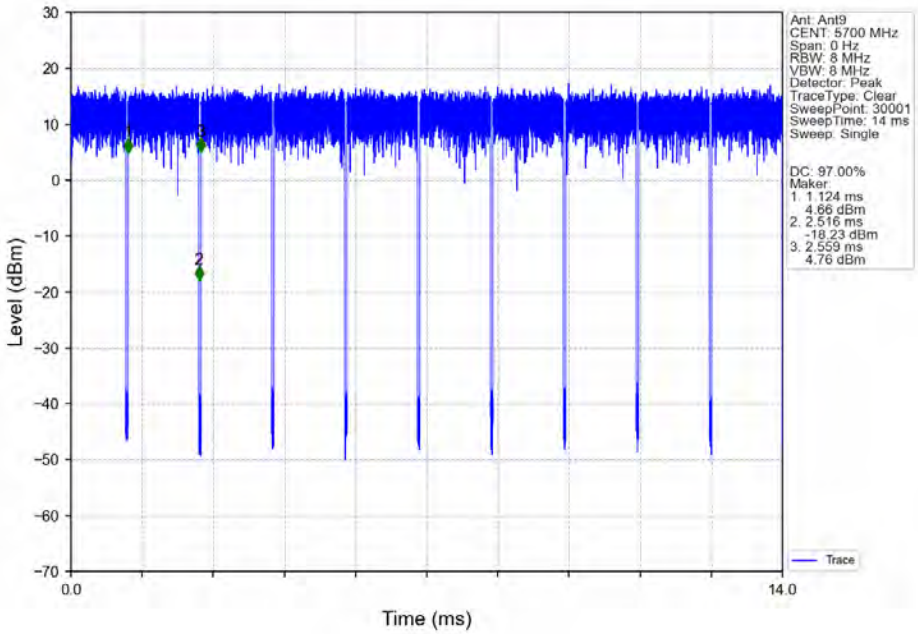
802.11a_HCH_5700MHz_Ant9_NTNV



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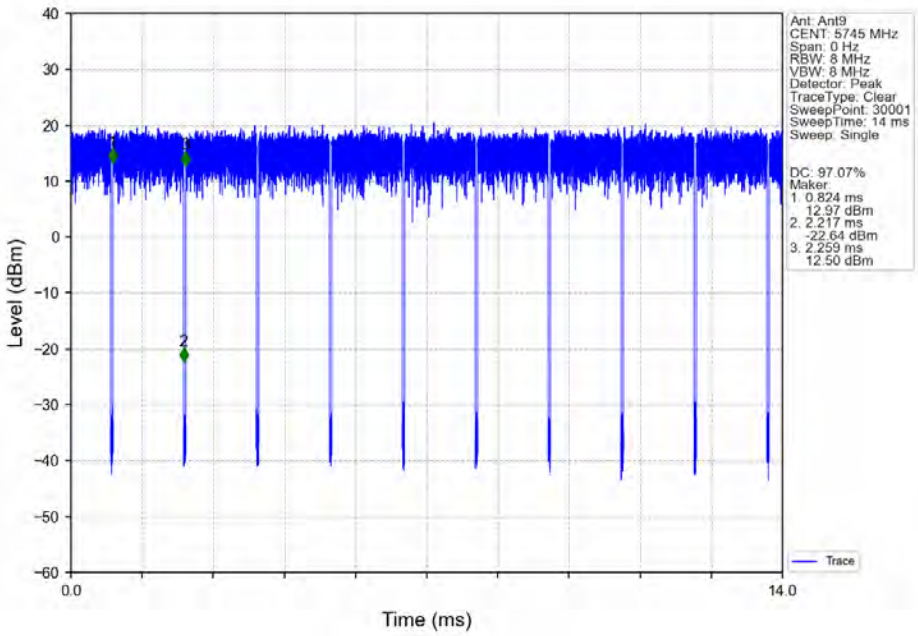

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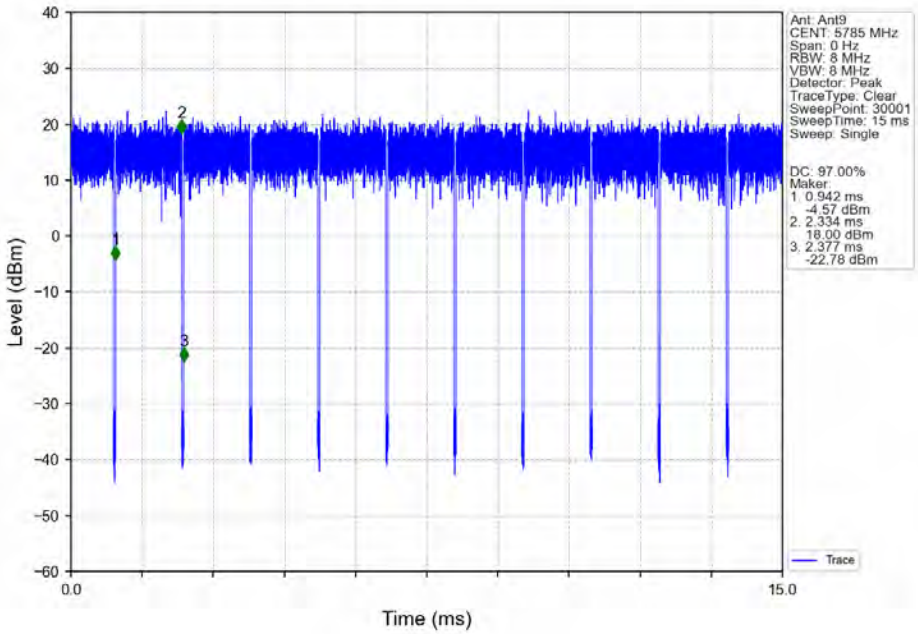
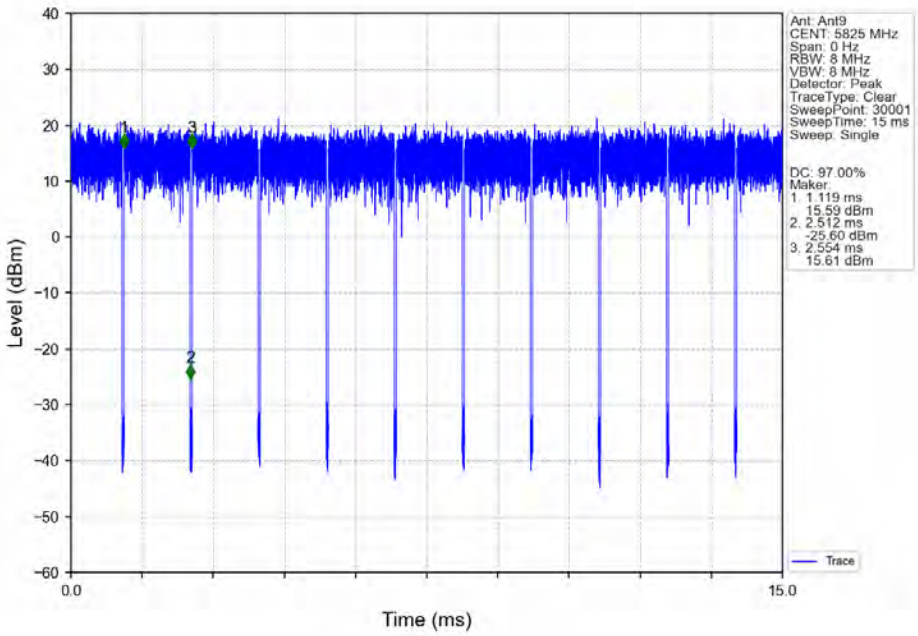
802.11a_MCH_5785MHz_Ant9_NTNV



802.11a_HCH_5825MHz_Ant9_NTNV



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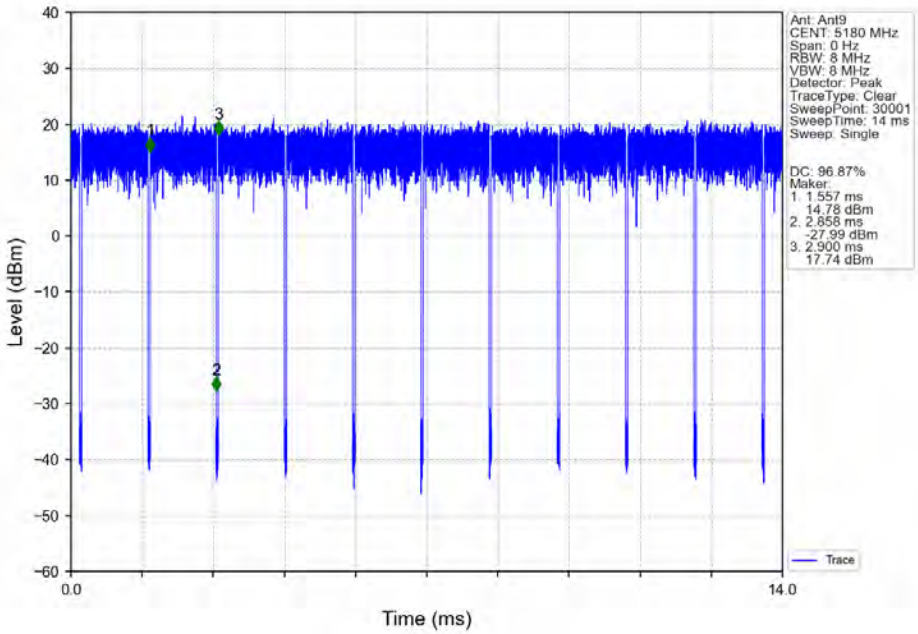
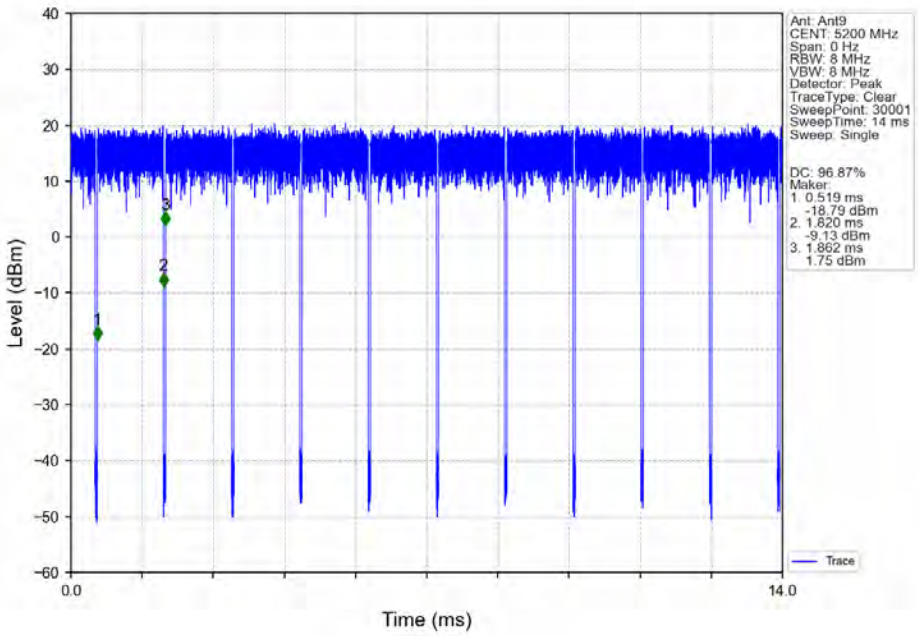
802.11n(HT20)_LCH_5180MHz_Ant9_NTNV



802.11n(HT20)_MCH_5200MHz_Ant9_NTNV



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