

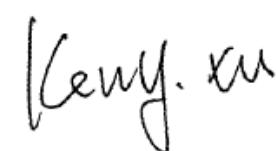
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TEST REPORT

Application No.: SZEM2004003232CR
Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18
Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China
Manufacturer: SZ DJI TECHNOLOGY CO., LTD.
Address of Manufacturer: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18
Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China
Factory: SZ DJI TECHNOLOGY CO., LTD.
Address of Factory: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18
Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: RoboMaster EP Core
Model No.: RMEPCORE
FCC ID: SS3-RMEPCORE
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2020-04-29
Date of Test: 2020-05-08 to 2020-05-19
Date of Issue: 2020-05-21

Test Result:	Pass*
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* 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		2020-05-21		Original

Authorized for issue by:			
		<i>Calvin Weng</i>	
		Calvin Weng /Project Engineer	
		<i>Eric Fu</i>	
		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	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	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)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & E 15.407(b)	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

N/A: Not applicable

Remark:1. the two antennas can transmit at the same time.

2. all the radiated test are performed with two antennas transmit simultaneously.
3. in this report, directional gain=4.0+10*log(2)=7.01dBi.

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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC10.8V by Lithium-ion battery(2400mAh) Recharge input: DC12.6V 2.2A by power adapter adapter input: AC100-240V, 1A, 50/60Hz adapter M/N: E1C28			
Cable:	AC power cable: 1m unshielded cable without ferrite core Micro USB cable: 0.6m unshielded cable			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	IEEE 802.11a	5180-5240	4
		IEEE 802.11n 20MHz	5180-5240	4
		IEEE 802.11n 40MHz	5190-5230	2
	UNII Band III	IEEE 802.11a	5745-5825	5
		IEEE 802.11n 20MHz	5745-5825	5
		IEEE 802.11n 40MHz	5755-5795	2
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM)			
TPC Function:	Not support			
Antenna Gain:	4dBi			
Antenna Type:	Integral antenna			

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz) $\pm 4.8\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$

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5 Equipment List

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Duty cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23

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Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-03-23	2021-03-22

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Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Peak Power spectrum density

Peak Power Spectrum Analysis					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Radiated Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12

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The logo is circular with a red border. Inside the border, the text "SGS-CSTS" is written vertically on the left, and "SGS-CSTS" is also repeated on the right side. The center of the logo features a large red five-pointed star. Above the star, the text "检验检测专用章" (Inspection & Testing Special Seal) is written in a stylized font. Below the star, the text "SGS-CSTS Inspection & Testing Services" is written in a standard font. At the very bottom of the logo, the text "SGS-CSTS Standards Technical Services Co.,Ltd." is written in a smaller font.

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Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4dBi, directional gain is 7.01dBi.



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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 (AR1021X) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detects 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 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.1.1 E.U.T. Operation

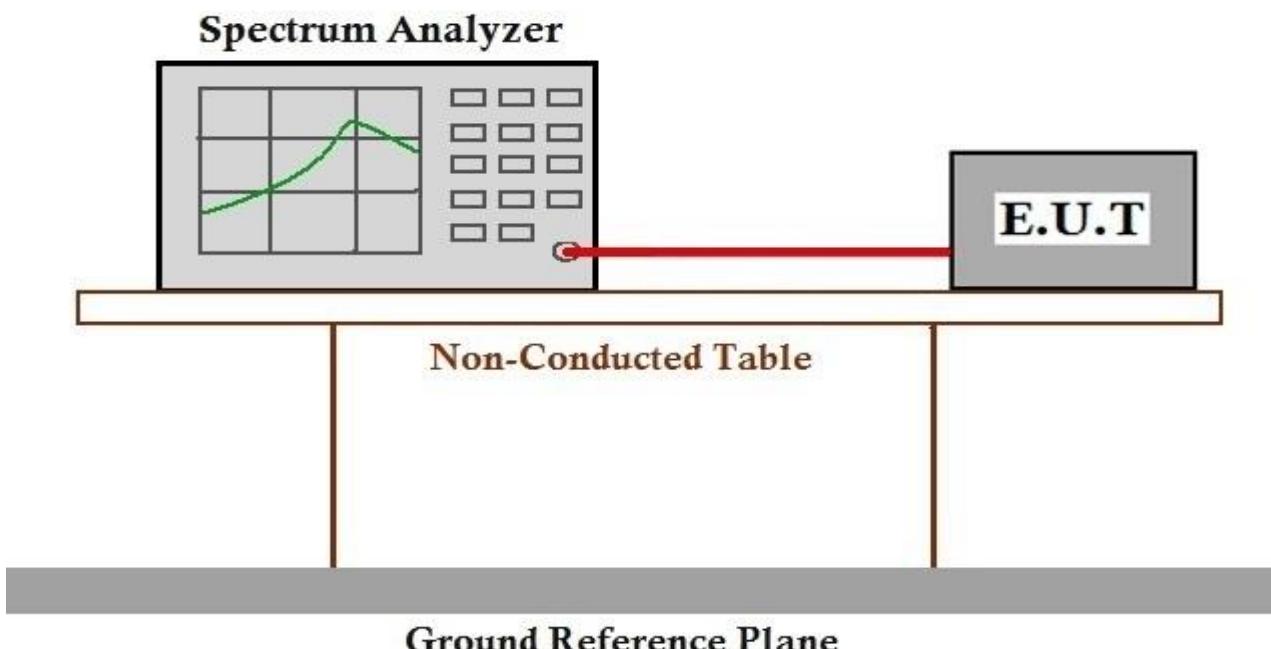
Operating Environment:

Temperature: 30 °C Humidity: 37.7 % RH Atmospheric Pressure: 1005 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

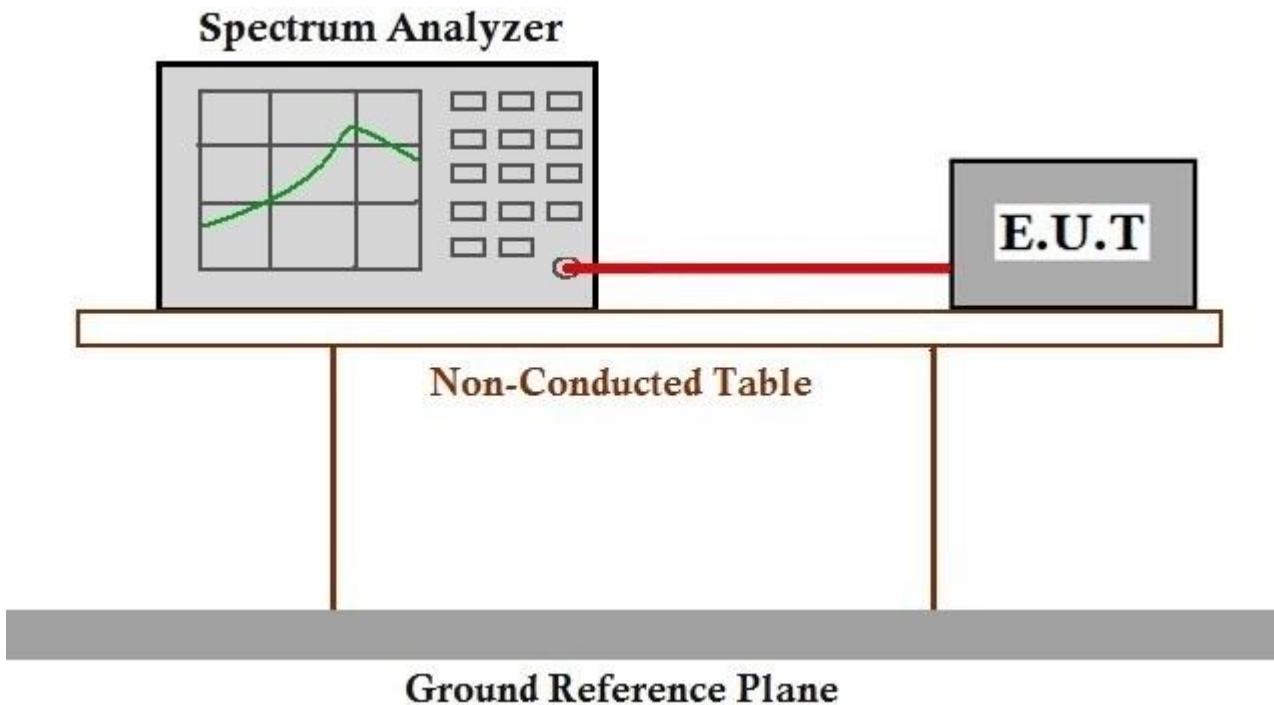
Operating Environment:

Temperature: 22.4 °C Humidity: 50.2 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

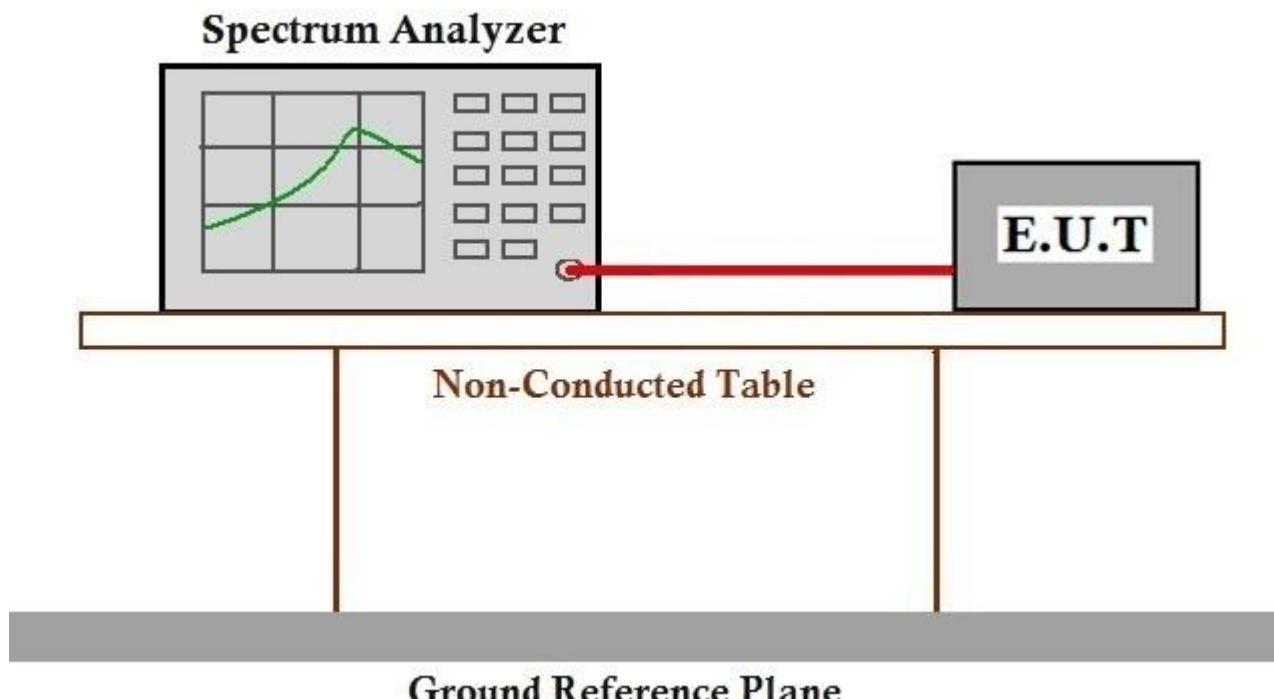
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 37.7 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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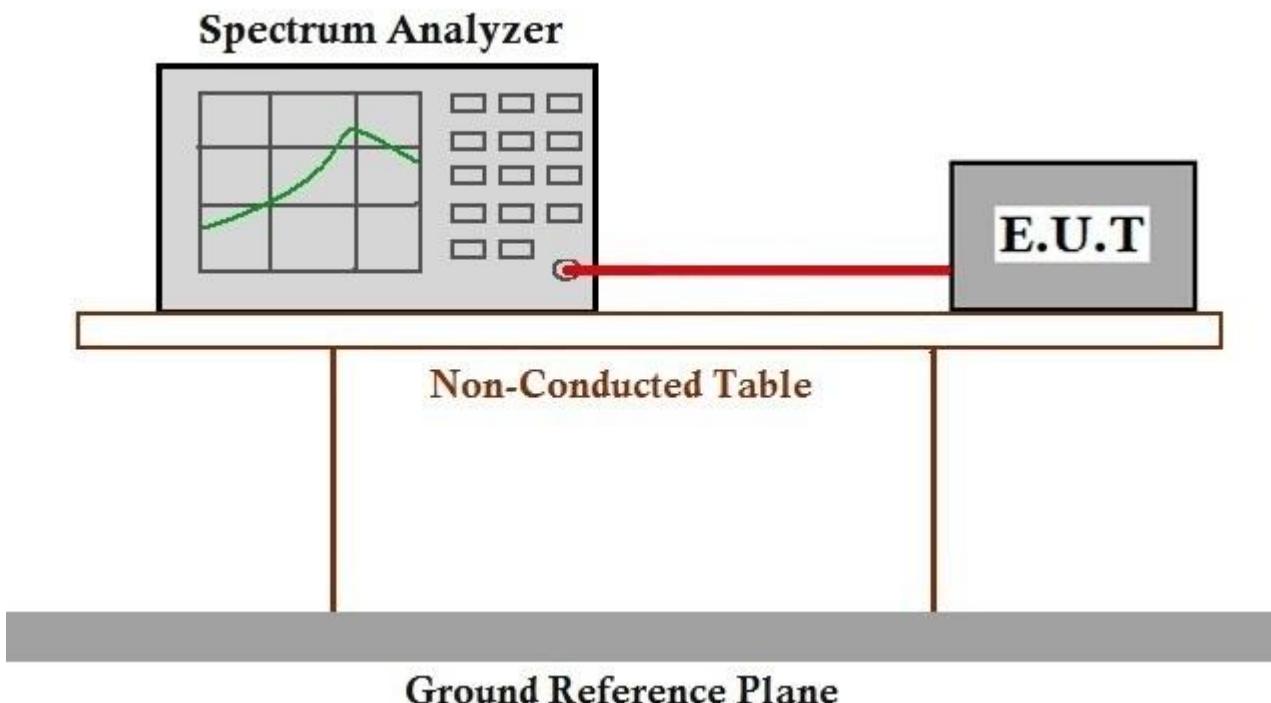
7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
Test Method: KDB 789033 D02 II C 2
Limit: ≥ 500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 30 °C Humidity: 37.7 % RH Atmospheric Pressure: 1005 mbar
Test mode c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram**7.4.3 Measurement Procedure and Data**

The detailed test data see: Appendix 15.407



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7.5 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) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p> <p>If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>

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7.5.1 E.U.T. Operation

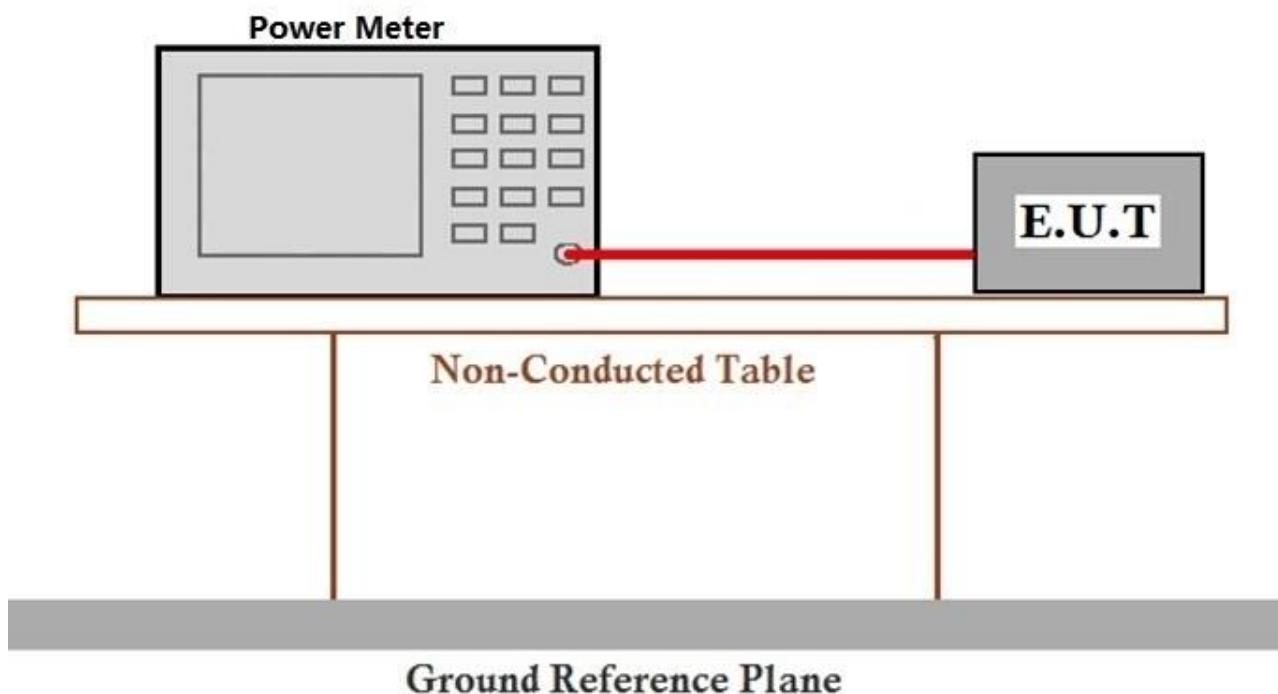
Operating Environment:

Temperature: 30 °C Humidity: 37.7 % RH Atmospheric Pressure: 1005 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.6 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.

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7.6.1 E.U.T. Operation

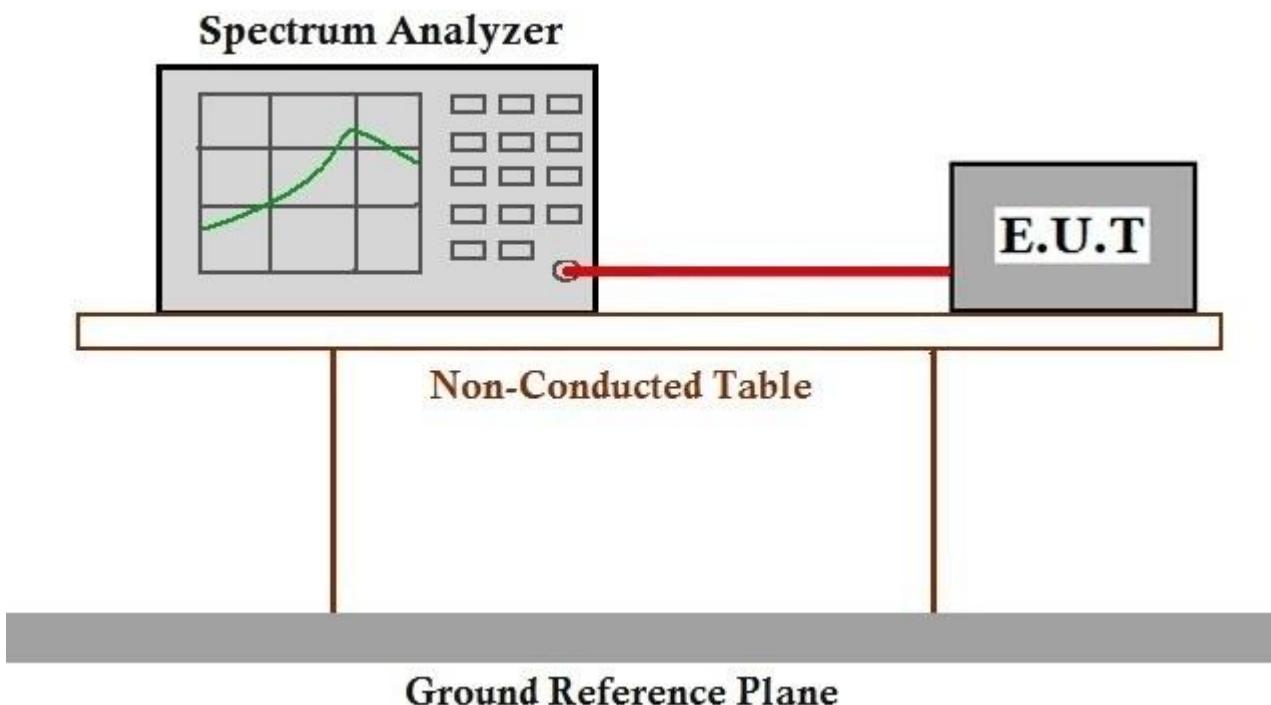
Operating Environment:

Temperature: 30 °C Humidity: 37.7 % RH Atmospheric Pressure: 1005 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.7 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 10m below 1GHz, 3m above 1GHz

Limit:

Limit:

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 (68.2dBuV/m).

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 (68.2dBuV/m).

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 (68.2dBuV/m).

For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

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

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.

limit @10m from 30MHz to 1GHz shall be converted from 3m, with a reduction factor of $20 \times \log(10/3)$.

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7.7.1 E.U.T. Operation

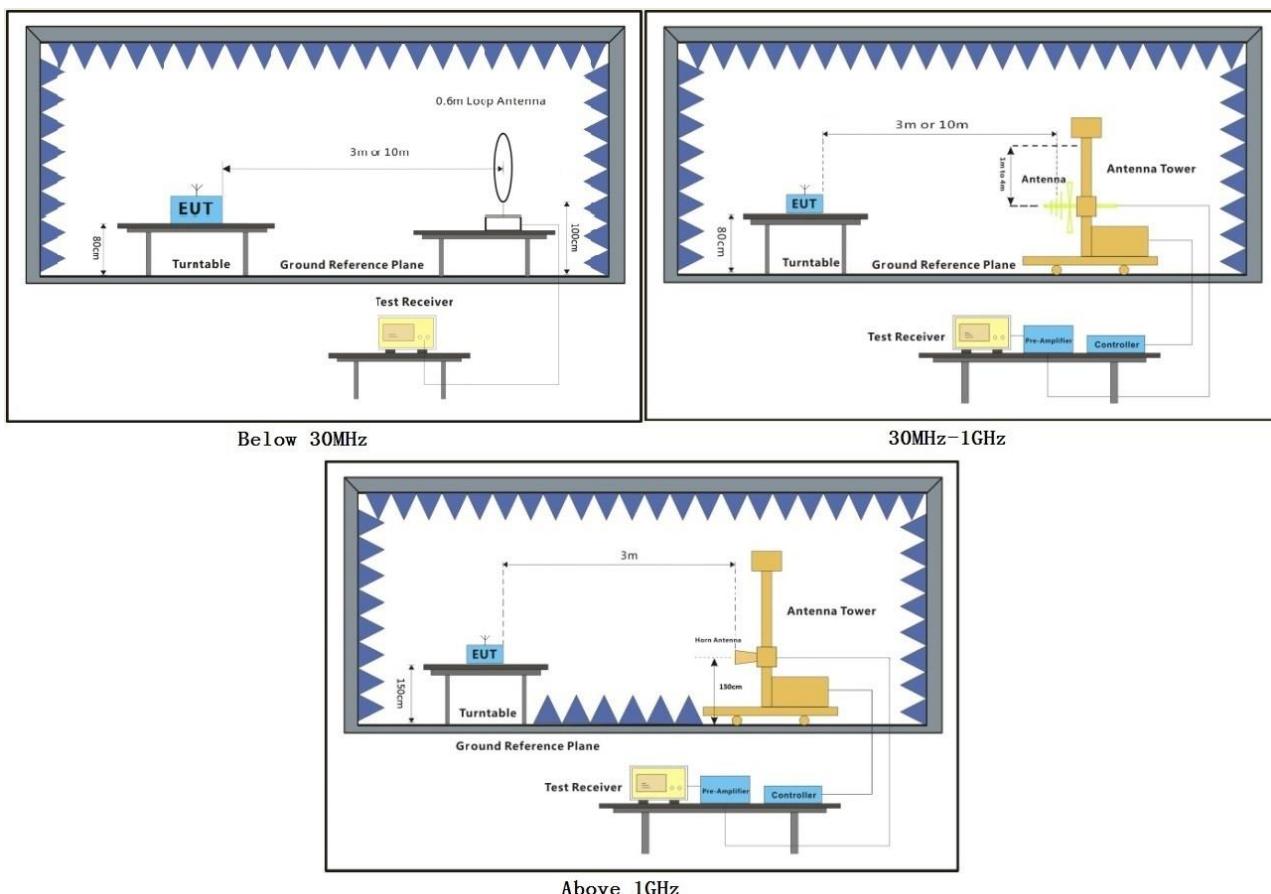
Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1005 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram



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7.7.3 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
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 40GHz, the disturbance above 18GHz and 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. 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.



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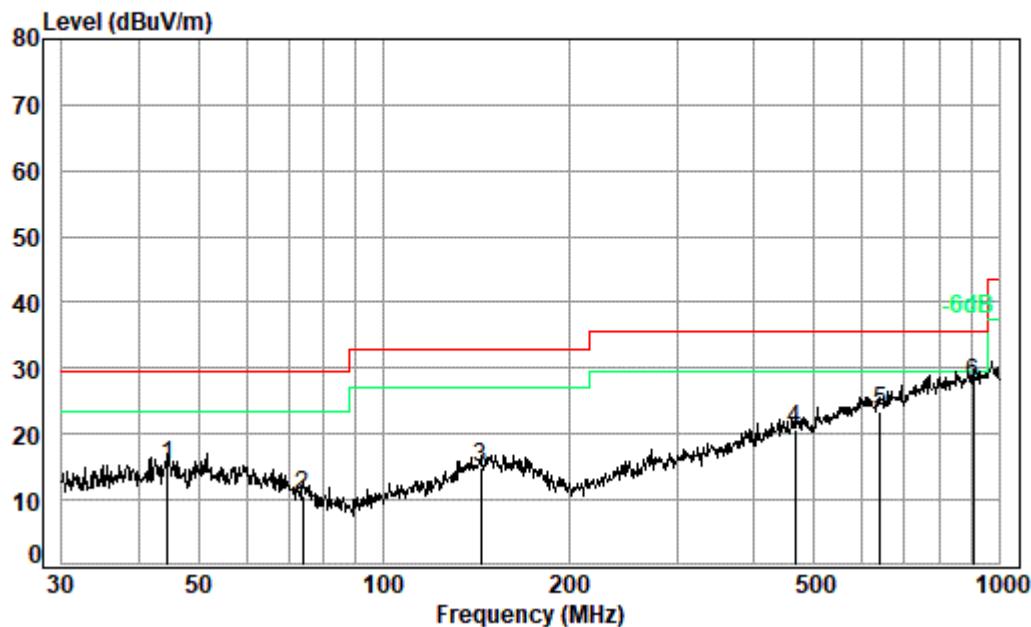
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Below 1GHz

Mode: b; Polarization: Horizontal;



Condition: 10m HORIZONTAL

Job No. : 03232CR

Test Mode: b

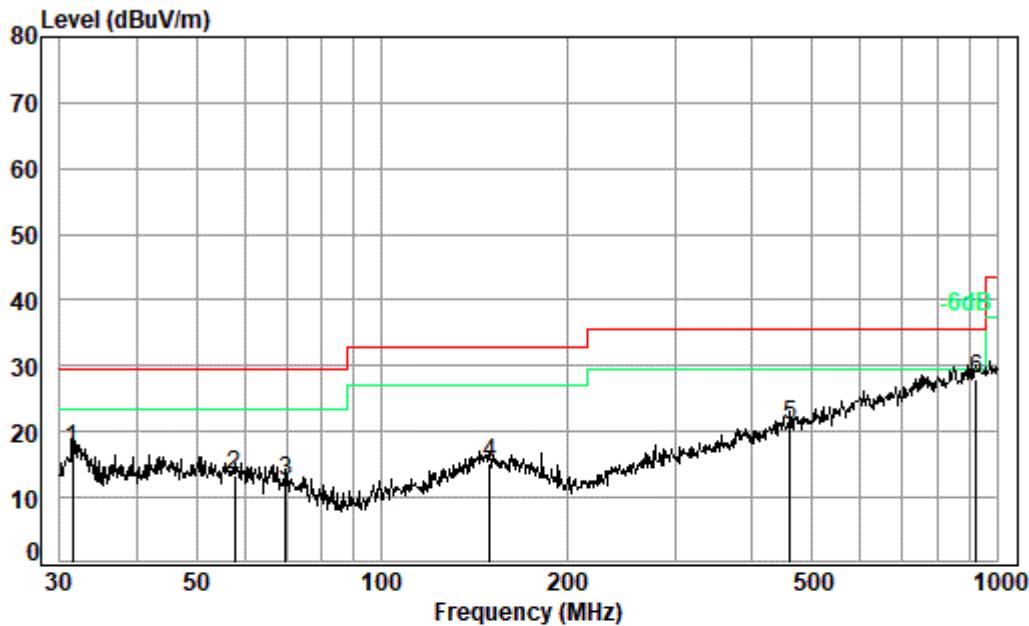
	Freq	Ant	Preamp	Cable	Read	Limit	Over	Remark
		Freq	Factor	Factor	Loss	Level	Level	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	44.587	20.36	32.44	0.95	26.30	15.17	29.50	-14.33 QP
2	73.876	16.43	32.38	1.11	25.56	10.72	29.50	-18.78 QP
3	143.830	19.90	32.30	1.45	25.81	14.86	33.00	-18.14 QP
4	465.599	23.66	32.35	2.77	26.59	20.67	35.60	-14.93 QP
5	640.611	26.31	32.12	3.19	26.16	23.54	35.60	-12.06 QP
6 pp	909.667	29.54	31.47	3.43	26.19	27.69	35.60	-7.91 QP

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Mode :b; Polarization: Vertical



Condition: 10m VERTICAL

Job No. : 03232CR

Test Mode: b

Freq	Ant	Preamp	Cable	Read	Limit	Over	Remark	
	Freq	Factor	Factor	Loss	Level	Level	Line	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.510	18.68	32.39	0.86	30.14	17.29	29.50	-12.21 QP
2	57.796	19.68	32.43	1.03	25.03	13.31	29.50	-16.19 QP
3	69.845	17.62	32.39	1.08	26.11	12.42	29.50	-17.08 QP
4	150.011	20.20	32.30	1.47	25.79	15.16	33.00	-17.84 QP
5	460.727	23.61	32.33	2.75	27.07	21.10	35.60	-14.50 QP
6 pp	925.756	29.80	31.38	3.45	26.19	28.06	35.60	-7.54 QP

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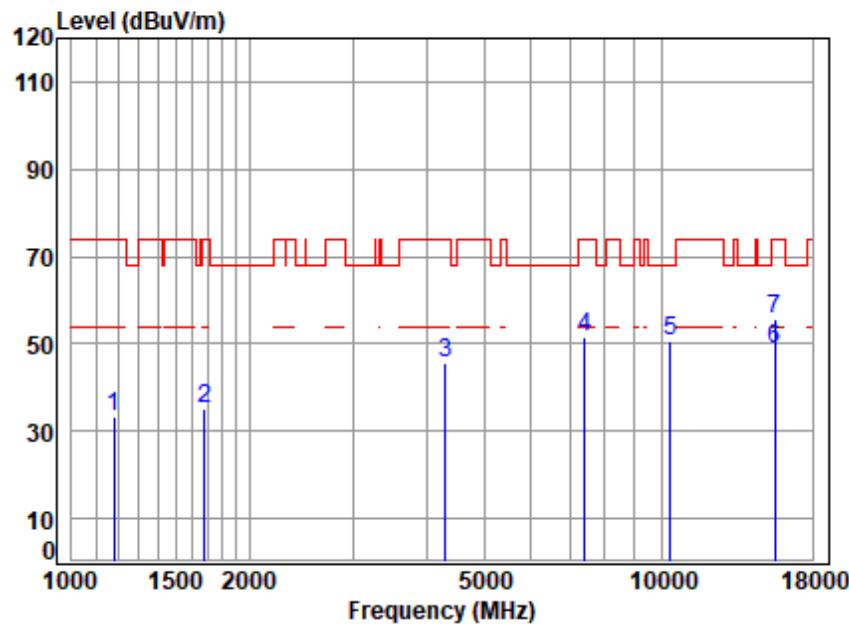


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Above 1GHz

Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1179.100	2.54	24.49	40.26	46.64	33.41	74.00	-40.59	peak
2 1677.621	3.23	26.58	40.62	46.16	35.35	74.00	-38.65	peak
3 4304.400	6.32	33.26	42.40	48.36	45.54	74.00	-28.46	peak
4 7411.461	8.16	36.23	41.48	48.75	51.66	74.00	-22.34	peak
5 10360.000	9.62	37.76	38.17	41.51	50.72	68.20	-17.48	peak
6 15540.000	12.08	40.72	40.58	36.54	48.76	54.00	-5.24	Average
7 15540.000	12.08	40.72	40.58	43.57	55.79	74.00	-18.21	peak

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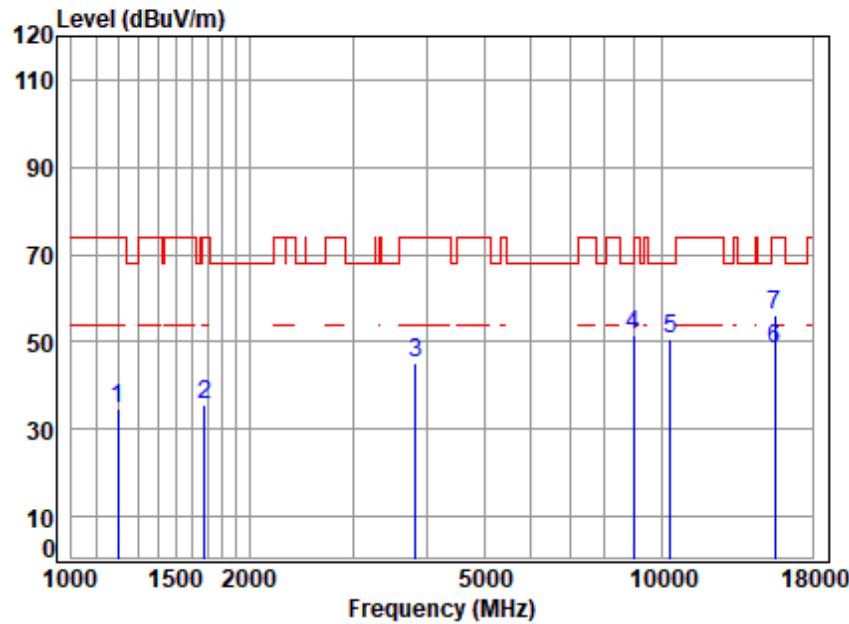
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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



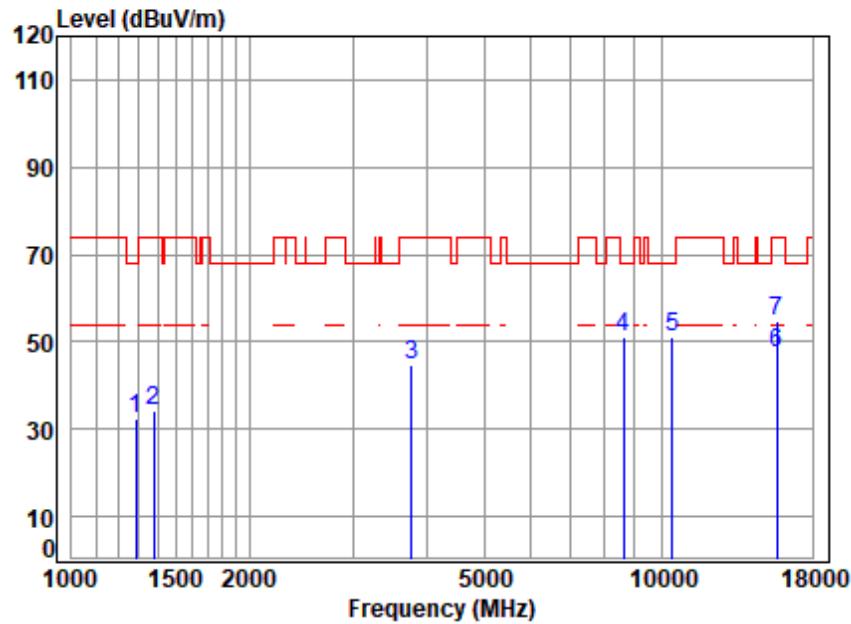
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 TX SE
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1199.726	2.63	24.59	40.28	47.90	34.84	74.00	-39.16 peak
2 1677.621	3.23	26.58	40.62	46.24	35.43	74.00	-38.57 peak
3 3834.438	6.67	32.38	42.02	48.28	45.31	74.00	-28.69 peak
4 8943.274	8.65	37.18	39.60	45.23	51.46	68.20	-16.74 peak
5 10360.000	9.62	37.76	38.17	41.28	50.49	68.20	-17.71 peak
6 15540.000	12.08	40.72	40.58	35.99	48.21	54.00	-5.79 Average
7 15540.000	12.08	40.72	40.58	43.99	56.21	74.00	-17.79 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



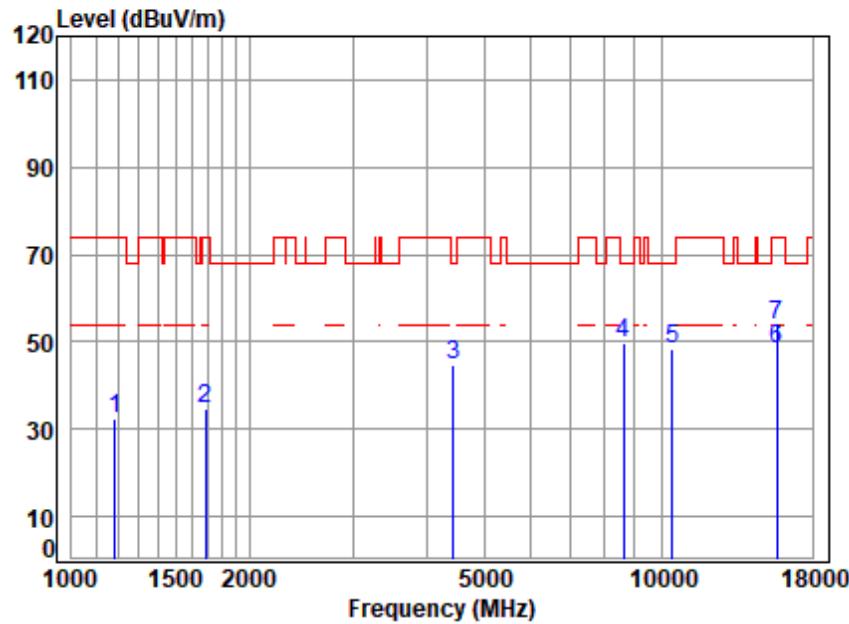
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5220 TX SE
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	2.86	24.96	40.35	44.73	32.20	68.20	-36.00 peak
2	1378.273	2.48	25.34	40.42	47.04	34.44	74.00	-39.56 peak
3	3768.513	6.48	32.25	41.96	47.98	44.75	74.00	-29.25 peak
4	8613.468	8.87	37.05	40.14	45.42	51.20	68.20	-17.00 peak
5	10440.000	9.49	37.72	38.21	41.88	50.88	68.20	-17.32 peak
6	15660.000	11.70	40.80	40.58	35.59	47.51	54.00	-6.49 Average
7	15660.000	11.70	40.80	40.58	42.96	54.88	74.00	-19.12 peak

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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:middle



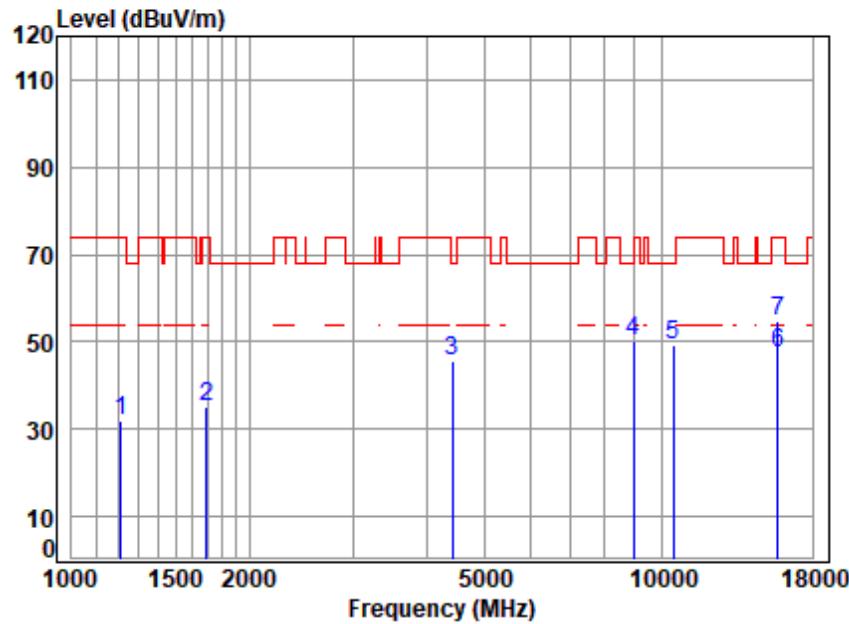
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5220 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1182.513	2.56	24.51	40.27	45.63	32.43	74.00	-41.57	peak
2 1687.347	3.27	26.62	40.62	45.56	34.83	74.00	-39.17	peak
3 4430.628	6.59	33.48	42.50	47.19	44.76	68.20	-23.44	peak
4 8613.468	8.87	37.05	40.14	44.00	49.78	68.20	-18.42	peak
5 10440.000	9.49	37.72	38.21	39.35	48.35	68.20	-19.85	peak
6 15660.000	11.70	40.80	40.58	36.31	48.23	54.00	-5.77	Average
7 15660.000	11.70	40.80	40.58	42.12	54.04	74.00	-19.96	peak

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Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1	1210.174	2.66	24.64	40.29	44.85	31.86	74.00	-42.14 peak
2	1692.231	3.28	26.64	40.63	45.65	34.94	74.00	-39.06 peak
3	4417.841	6.63	33.46	42.49	47.93	45.53	68.20	-22.67 peak
4	8969.161	8.84	37.19	39.56	43.65	50.12	68.20	-18.08 peak
5	10480.000	9.38	37.71	38.23	40.60	49.46	68.20	-18.74 peak
6	15720.000	11.46	40.83	40.57	35.88	47.60	54.00	-6.40 Average
7	15720.000	11.46	40.83	40.57	42.96	54.68	74.00	-19.32 peak

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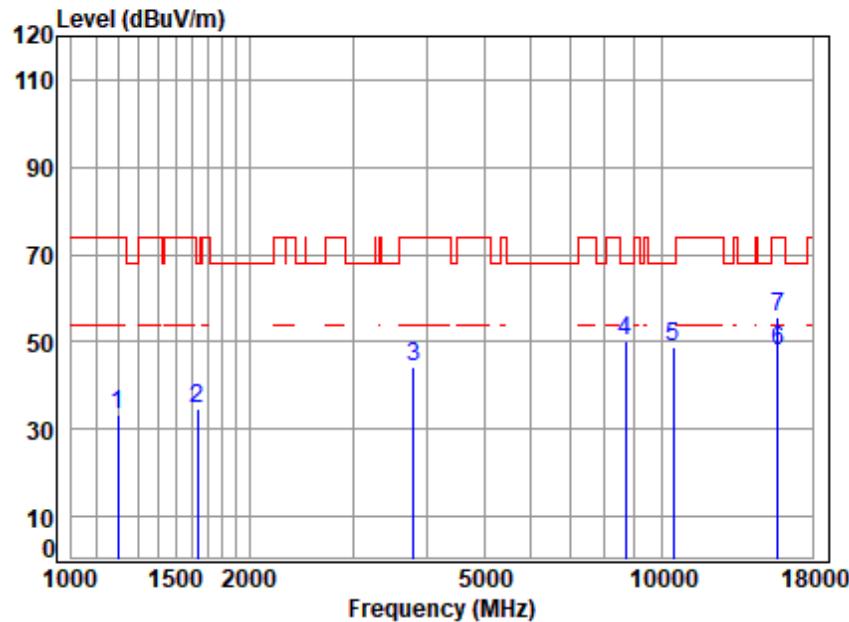
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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



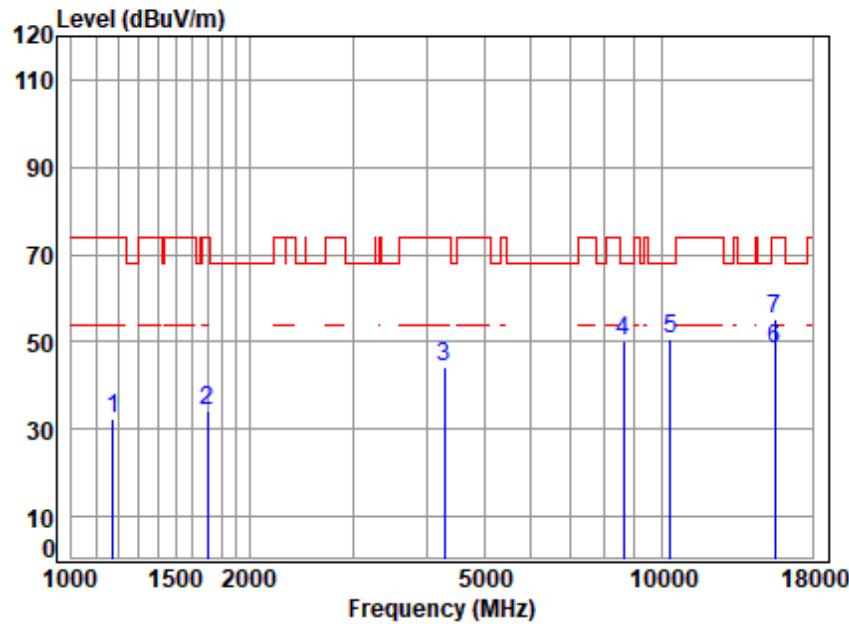
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1196.264	2.61	24.57	40.28	46.20	33.10	74.00	-40.90	peak
2 1634.543	3.08	26.40	40.59	45.71	34.60	68.20	-33.60	peak
3 3801.333	7.01	32.32	41.99	46.87	44.21	74.00	-29.79	peak
4 8688.480	8.62	37.08	40.02	44.64	50.32	68.20	-17.88	peak
5 10480.000	9.38	37.71	38.23	39.84	48.70	68.20	-19.50	peak
6 15720.000	11.46	40.83	40.57	36.23	47.95	54.00	-6.05	Average
7 15720.000	11.46	40.83	40.57	44.02	55.74	74.00	-18.26	peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



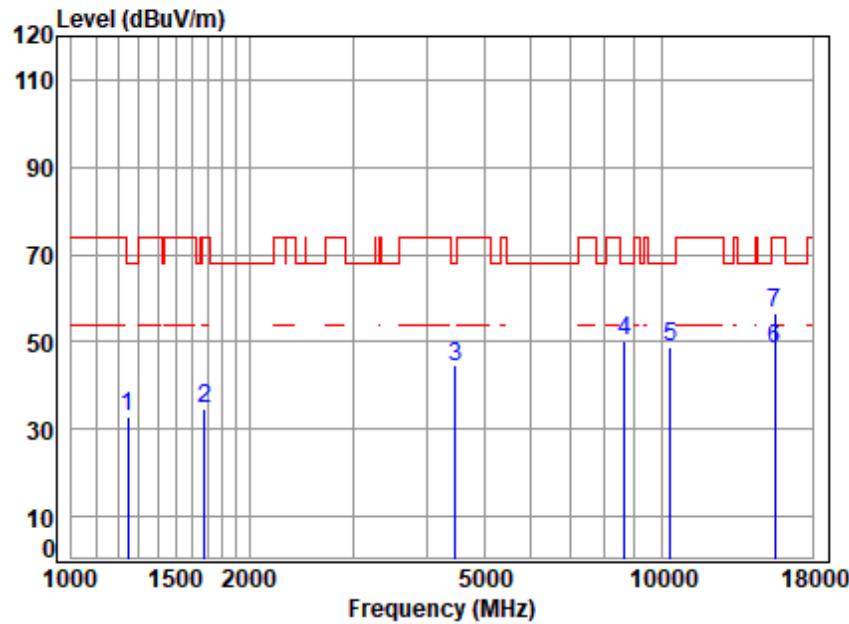
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 TX SE
Note : 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1175.697	2.53	24.48	40.26	45.47	32.22	74.00	-41.78 peak
2	1697.129	3.30	26.66	40.63	44.82	34.15	74.00	-39.85 peak
3	4291.977	6.29	33.24	42.39	47.22	44.36	74.00	-29.64 peak
4	8613.468	8.87	37.05	40.14	44.27	50.05	68.20	-18.15 peak
5	10360.000	9.62	37.76	38.17	41.38	50.59	68.20	-17.61 peak
6	15540.000	12.08	40.72	40.58	36.13	48.35	54.00	-5.65 Average
7	15540.000	12.08	40.72	40.58	43.20	55.42	74.00	-18.58 peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1	1245.663	2.76	24.79	40.32	45.55	32.78	68.20	-35.42 peak
2	1677.621	3.23	26.58	40.62	45.43	34.62	74.00	-39.38 peak
3	4469.214	6.47	33.55	42.53	47.00	44.49	68.20	-23.71 peak
4	8638.399	8.78	37.06	40.10	44.59	50.33	68.20	-17.87 peak
5	10360.000	9.62	37.76	38.17	39.74	48.95	68.20	-19.25 peak
6	15540.000	12.08	40.72	40.58	36.12	48.34	54.00	-5.66 Average
7	15540.000	12.08	40.72	40.58	44.25	56.47	74.00	-17.53 peak

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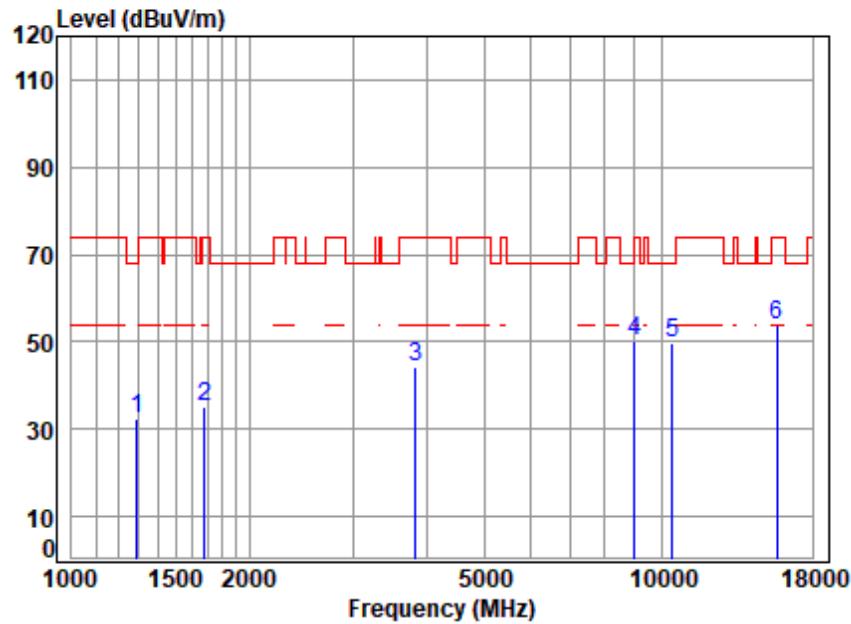
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5220 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1289.627	2.87	24.98	40.35	44.97	32.47	68.20	-35.73	peak
2 1677.621	3.23	26.58	40.62	45.80	34.99	74.00	-39.01	peak
3 3834.438	6.67	32.38	42.02	47.39	44.42	74.00	-29.58	peak
4 8995.123	9.03	37.20	39.52	43.43	50.14	68.20	-18.06	peak
5 10440.000	9.49	37.72	38.21	40.60	49.60	68.20	-18.60	peak
6 15660.000	11.70	40.80	40.58	41.77	53.69	74.00	-20.31	peak

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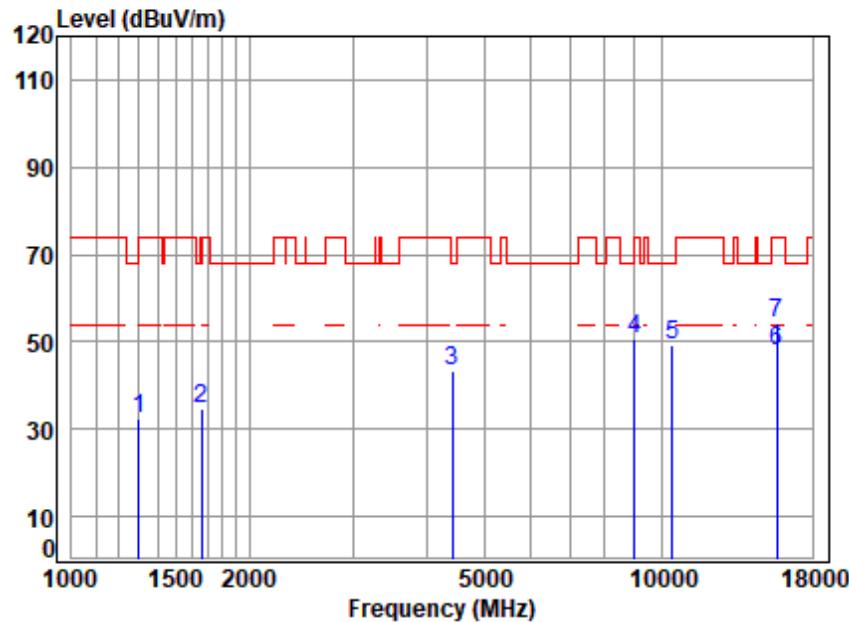
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



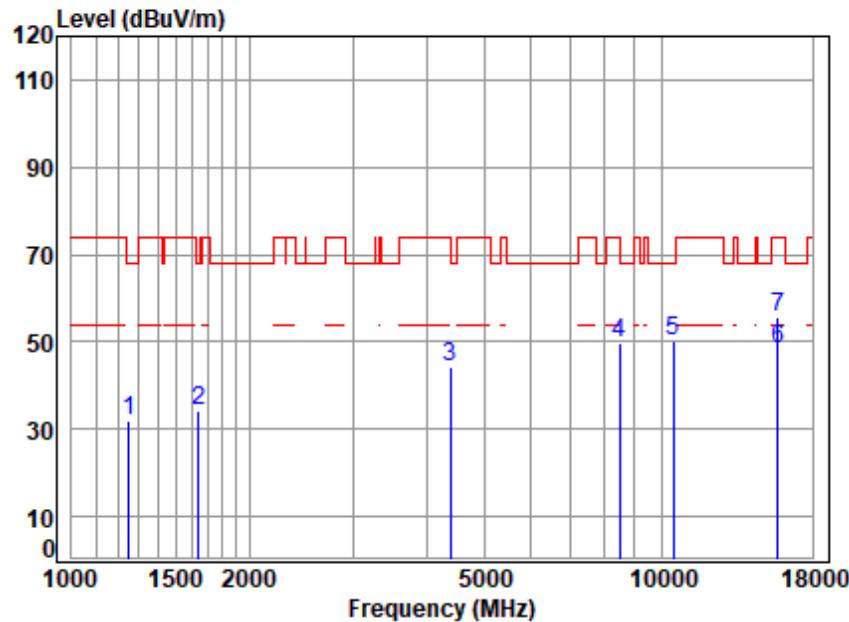
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5220 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1	1300.858	2.90	25.03	40.36	45.04	32.61	74.00	-41.39 peak
2	1663.137	3.18	26.52	40.61	45.41	34.50	74.00	-39.50 peak
3	4417.841	6.63	33.46	42.49	45.97	43.57	68.20	-24.63 peak
4	8995.123	9.03	37.20	39.52	43.82	50.53	68.20	-17.67 peak
5	10440.000	9.49	37.72	38.21	40.16	49.16	68.20	-19.04 peak
6	15660.000	11.70	40.80	40.58	35.94	47.86	54.00	-6.14 Average
7	15660.000	11.70	40.80	40.58	42.22	54.14	74.00	-19.86 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1249.269	2.77	24.81	40.32	44.90	32.16	68.20	-36.04	peak
2 1644.019	3.11	26.44	40.60	45.30	34.25	68.20	-33.95	peak
3 4392.376	6.66	33.42	42.47	46.49	44.10	74.00	-29.90	peak
4 8489.882	8.59	36.99	40.35	44.71	49.94	74.00	-24.06	peak
5 10480.000	9.38	37.71	38.23	41.43	50.29	68.20	-17.91	peak
6 15720.000	11.46	40.83	40.57	36.42	48.14	54.00	-5.86	Average
7 15720.000	11.46	40.83	40.57	43.99	55.71	74.00	-18.29	peak

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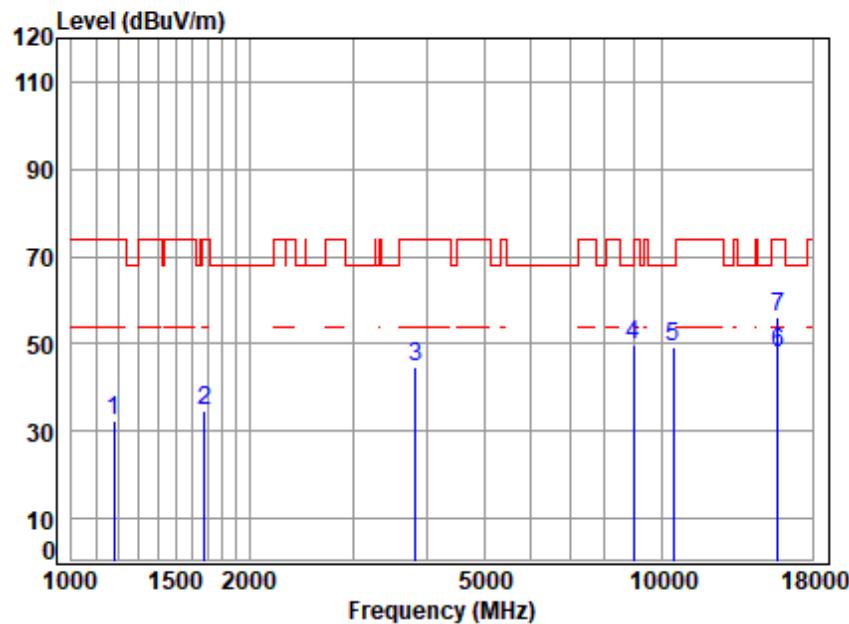
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



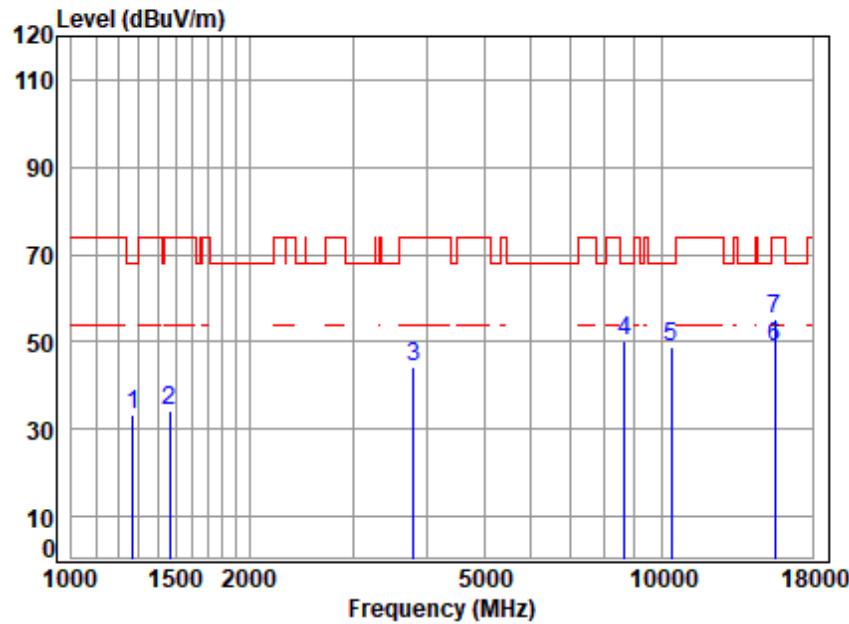
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 TX SE
Note : 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1179.100	2.54	24.49	40.26	45.46	32.23	74.00	-41.77 peak
2	1682.477	3.25	26.60	40.62	45.24	34.47	74.00	-39.53 peak
3	3823.371	6.78	32.36	42.01	47.69	44.82	74.00	-29.18 peak
4	8969.161	8.84	37.19	39.56	43.46	49.93	68.20	-18.27 peak
5	10480.000	9.38	37.71	38.23	40.28	49.14	68.20	-19.06 peak
6	15720.000	11.46	40.83	40.57	36.36	48.08	54.00	-5.92 Average
7	15720.000	11.46	40.83	40.57	44.24	55.96	74.00	-18.04 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



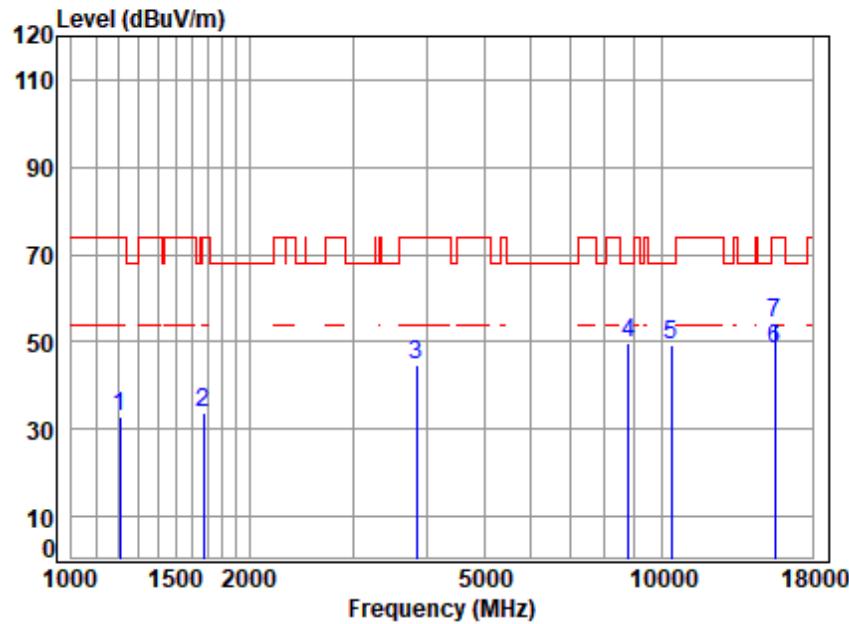
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5190 TX SE
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1271.123	2.82	24.90	40.34	45.78	33.16	68.20	-35.04	peak
2 1468.761	2.80	25.69	40.48	46.12	34.13	74.00	-39.87	peak
3 3801.333	7.01	32.32	41.99	46.74	44.08	74.00	-29.92	peak
4 8638.399	8.78	37.06	40.10	44.52	50.26	68.20	-17.94	peak
5 10380.000	9.61	37.75	38.18	39.74	48.92	68.20	-19.28	peak
6 15570.000	12.06	40.74	40.58	36.49	48.71	54.00	-5.29	Average
7 15570.000	12.06	40.74	40.58	42.98	55.20	74.00	-18.80	peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5190 TX SE
Note : 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1206.682	2.65	24.62	40.29	46.00	32.98	74.00	-41.02 peak
2	1672.779	3.21	26.56	40.62	44.41	33.56	74.00	-40.44 peak
3	3845.537	6.56	32.41	42.03	47.80	44.74	74.00	-29.26 peak
4	8789.516	8.47	37.12	39.85	44.09	49.83	68.20	-18.37 peak
5	10380.000	9.61	37.75	38.18	40.11	49.29	68.20	-18.91 peak
6	15570.000	12.06	40.74	40.58	36.26	48.48	54.00	-5.52 Average
7	15570.000	12.06	40.74	40.58	42.16	54.38	74.00	-19.62 peak

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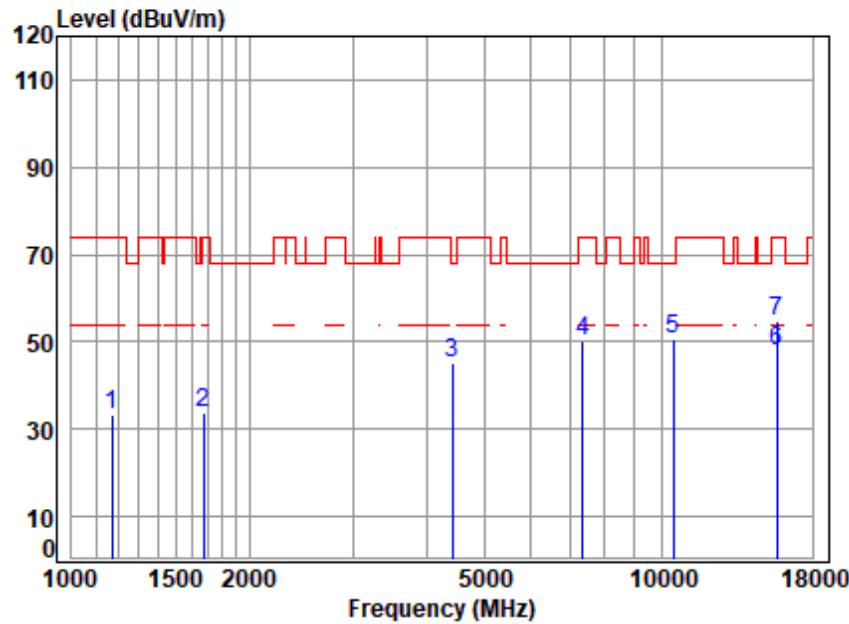
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5230 TX SE
Note : 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1168.920	2.50	24.45	40.26	46.65	33.34	74.00	-40.66 peak
2	1672.779	3.21	26.56	40.62	44.71	33.86	74.00	-40.14 peak
3	4417.841	6.63	33.46	42.49	47.39	44.99	68.20	-23.21 peak
4	7347.474	8.30	36.18	41.51	47.13	50.10	74.00	-23.90 peak
5	10460.000	9.43	37.72	38.22	41.52	50.45	68.20	-17.75 peak
6	15690.000	11.52	40.82	40.58	36.05	47.81	54.00	-6.19 Average
7	15690.000	11.52	40.82	40.58	43.03	54.79	74.00	-19.21 peak

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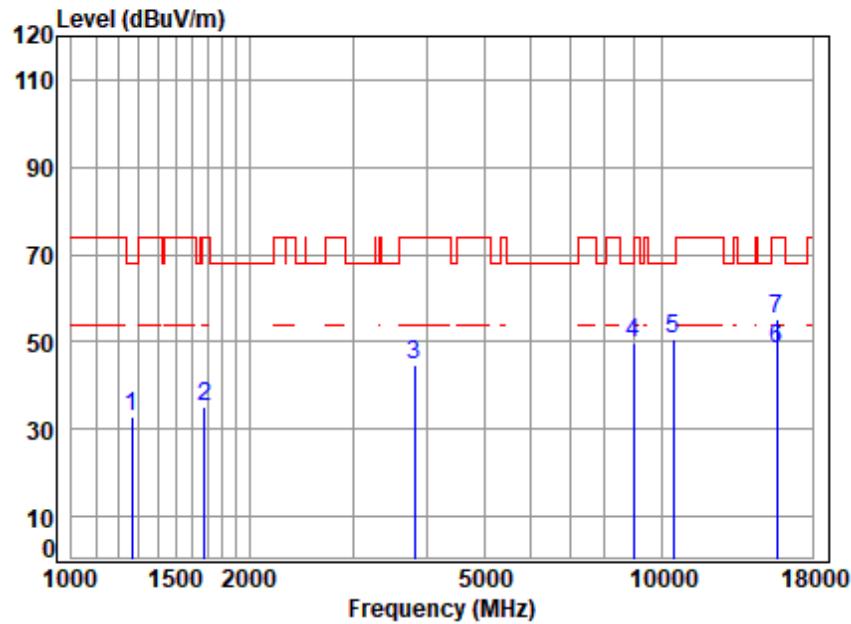
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5230 TX SE
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1267.454	2.81	24.89	40.34	45.30	32.66	68.20	-35.54	peak
2 1682.477	3.25	26.60	40.62	45.84	35.07	74.00	-38.93	peak
3 3812.336	6.89	32.34	42.00	47.36	44.59	74.00	-29.41	peak
4 8969.161	8.84	37.19	39.56	43.36	49.83	68.20	-18.37	peak
5 10460.000	9.43	37.72	38.22	41.85	50.78	68.20	-17.42	peak
6 15690.000	11.52	40.82	40.58	36.47	48.23	54.00	-5.77	Average
7 15690.000	11.52	40.82	40.58	43.44	55.20	74.00	-18.80	peak

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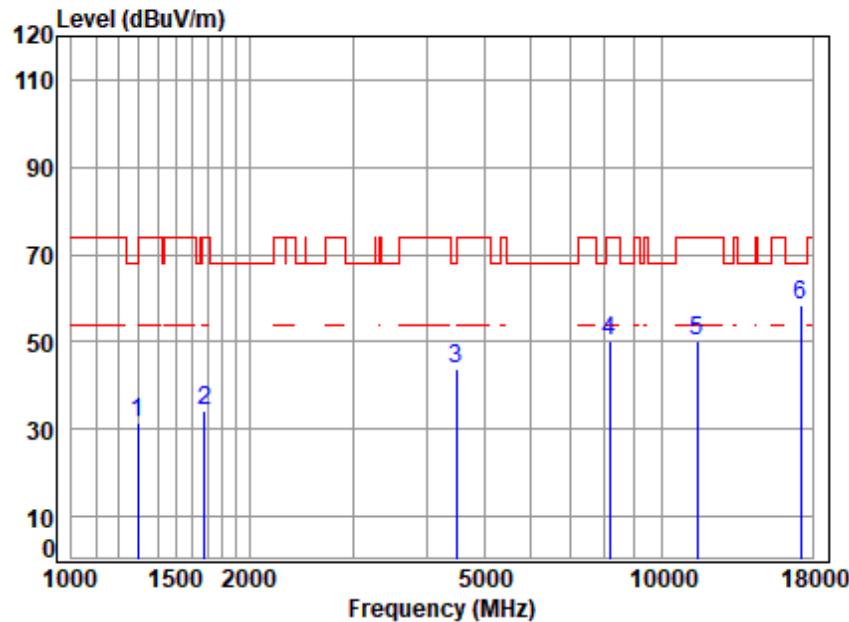
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1293.359	2.88	25.00	40.36	44.12	31.64	68.20	-36.56	peak
2 1677.621	3.23	26.58	40.62	45.24	34.43	74.00	-39.57	peak
3 4482.150	6.43	33.57	42.54	46.51	43.97	68.20	-24.23	peak
4 8153.195	8.39	36.79	40.93	45.83	50.08	74.00	-23.92	peak
5 11490.000	10.99	37.90	38.69	40.13	50.33	74.00	-23.67	peak
6 17235.000	14.32	42.74	40.52	41.77	58.31	68.20	-9.89	peak

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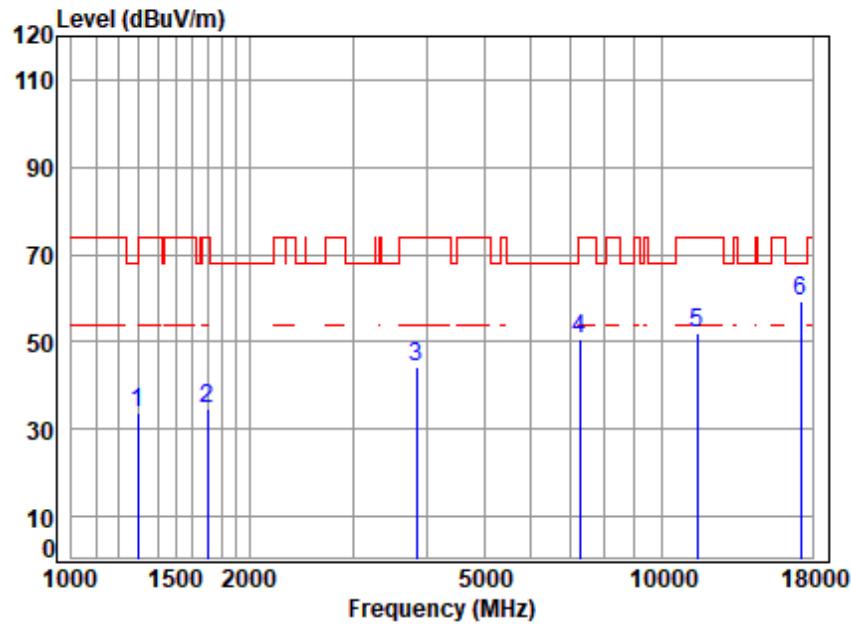
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1297.103	2.89	25.01	40.36	46.23	33.77	68.20	-34.43	peak
2 1697.129	3.30	26.66	40.63	45.52	34.85	74.00	-39.15	peak
3 3845.537	6.56	32.41	42.03	47.10	44.04	74.00	-29.96	peak
4 7263.015	8.42	36.11	41.55	47.71	50.69	74.00	-23.31	peak
5 11490.000	10.99	37.90	38.69	41.75	51.95	74.00	-22.05	peak
6 17235.000	14.32	42.74	40.52	42.95	59.49	68.20	-8.71	peak

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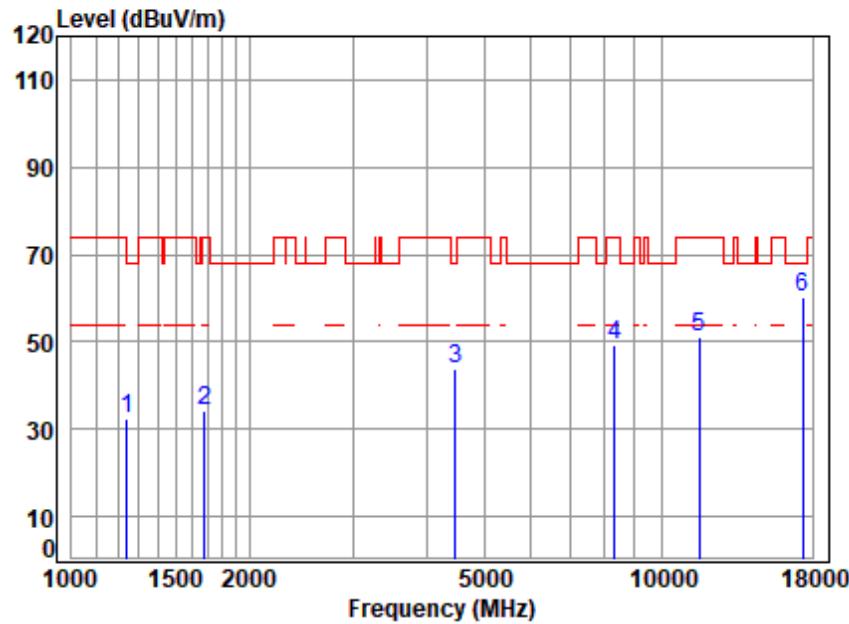
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



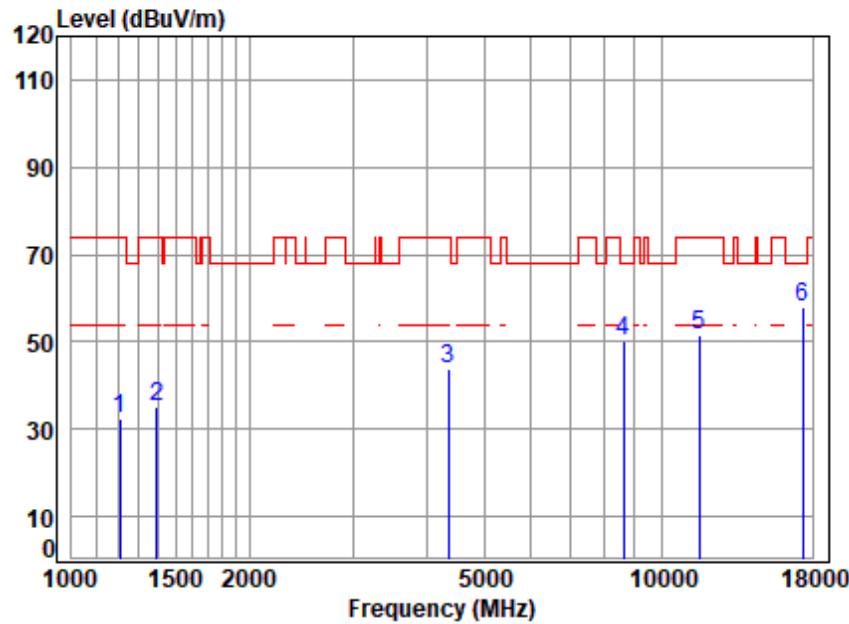
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5785 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1242.068	2.75	24.78	40.32	45.09	32.30	68.20	-35.90	peak
2 1682.477	3.25	26.60	40.62	44.99	34.22	74.00	-39.78	peak
3 4469.214	6.47	33.55	42.53	46.41	43.90	68.20	-24.30	peak
4 8319.836	8.22	36.89	40.64	44.78	49.25	74.00	-24.75	peak
5 11570.000	10.66	37.87	38.72	41.40	51.21	74.00	-22.79	peak
6 17355.000	13.87	42.81	40.52	44.15	60.31	68.20	-7.89	peak

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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5785 TX SE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1206.682	2.65	24.62	40.29	45.60	32.58	74.00	-41.42	peak
2 1394.300	2.40	25.40	40.43	47.70	35.07	74.00	-38.93	peak
3 4354.454	6.51	33.35	42.44	46.45	43.87	74.00	-30.13	peak
4 8613.468	8.87	37.05	40.14	44.26	50.04	68.20	-18.16	peak
5 11570.000	10.66	37.87	38.72	41.81	51.62	74.00	-22.38	peak
6 17355.000	13.87	42.81	40.52	41.80	57.96	68.20	-10.24	peak

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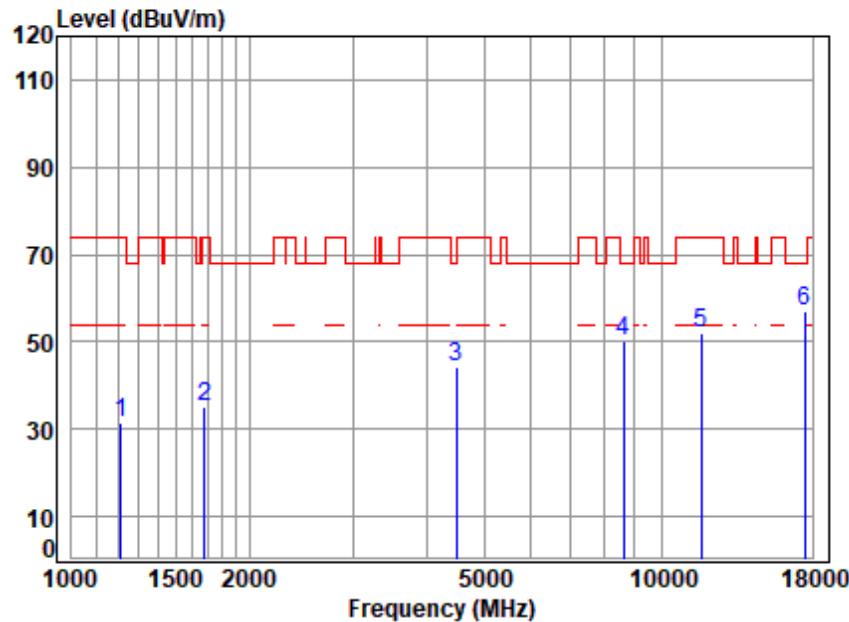
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 TX SE
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1210.174	2.66	24.64	40.29	44.49	31.50	74.00	-42.50 peak
2 1677.621	3.23	26.58	40.62	45.93	35.12	74.00	-38.88 peak
3 4482.150	6.43	33.57	42.54	47.01	44.47	68.20	-23.73 peak
4 8613.468	8.87	37.05	40.14	44.37	50.15	68.20	-18.05 peak
5 11650.000	10.52	37.84	38.75	42.34	51.95	74.00	-22.05 peak
6 17475.000	13.18	42.89	40.52	41.44	56.99	68.20	-11.21 peak

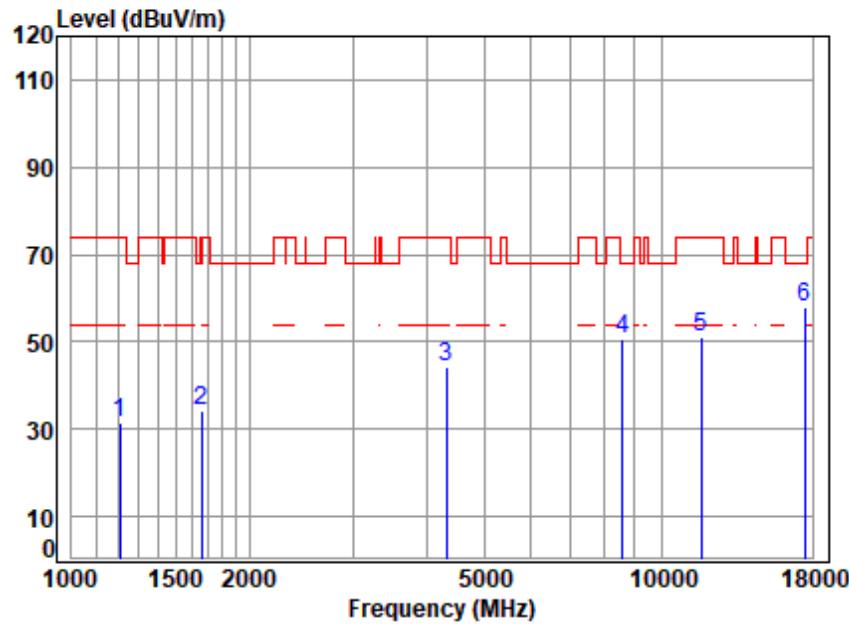
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 TX SE
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1206.682	2.65	24.62	40.29	44.73	31.71	74.00	-42.29 peak
2	1658.337	3.16	26.50	40.61	44.95	34.00	68.20	-34.20 peak
3	4316.859	6.37	33.28	42.41	46.94	44.18	74.00	-29.82 peak
4	8588.607	8.88	37.04	40.18	44.83	50.57	68.20	-17.63 peak
5	11650.000	10.52	37.84	38.75	41.62	51.23	74.00	-22.77 peak
6	17475.000	13.18	42.89	40.52	42.50	58.05	68.20	-10.15 peak

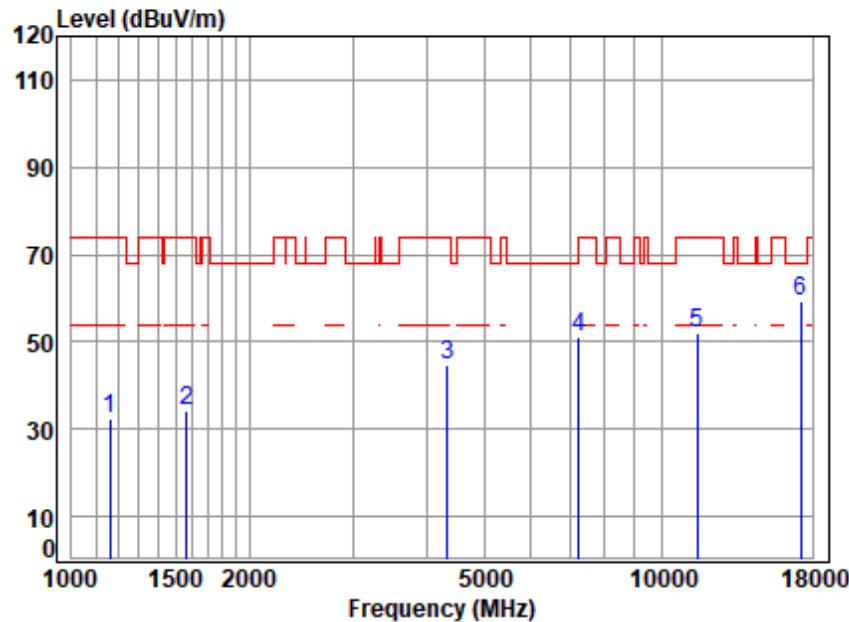
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1162.182	2.47	24.42	40.25	45.59	32.23	74.00	-41.77	peak
2 1569.721	2.96	26.12	40.55	45.47	34.00	74.00	-40.00	peak
3 4341.886	6.46	33.33	42.43	47.56	44.92	74.00	-29.08	peak
4 7242.052	8.43	36.10	41.56	48.12	51.09	68.20	-17.11	peak
5 11490.000	10.99	37.90	38.69	41.75	51.95	74.00	-22.05	peak
6 17235.000	14.32	42.74	40.52	42.97	59.51	68.20	-8.69	peak

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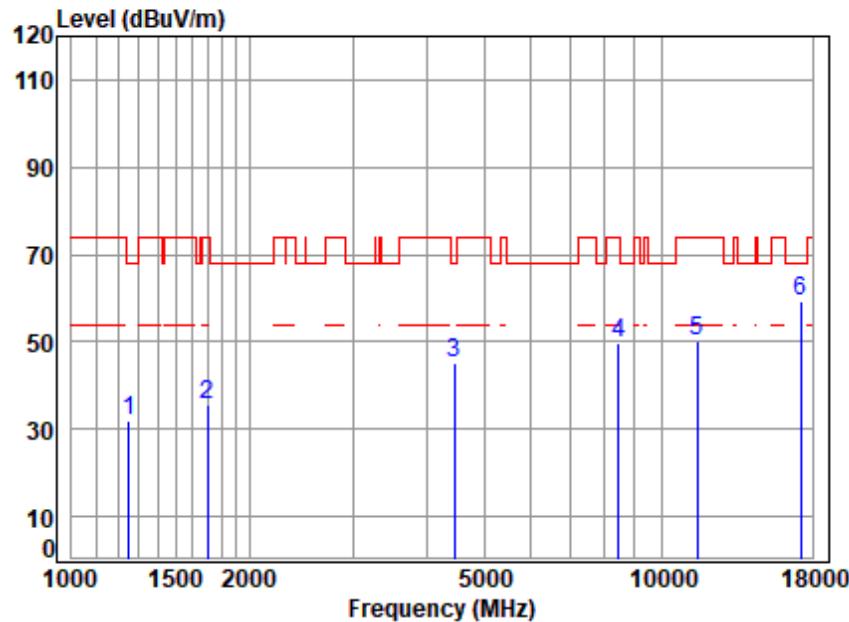
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1 1249.269	2.77	24.81	40.32	44.56	31.82	68.20	-36.38	peak
2 1697.129	3.30	26.66	40.63	46.11	35.44	74.00	-38.56	peak
3 4456.315	6.51	33.53	42.52	47.74	45.26	68.20	-22.94	peak
4 8440.945	8.46	36.97	40.43	44.88	49.88	74.00	-24.12	peak
5 11490.000	10.99	37.90	38.69	39.88	50.08	74.00	-23.92	peak
6 17235.000	14.32	42.74	40.52	42.63	59.17	68.20	-9.03	peak

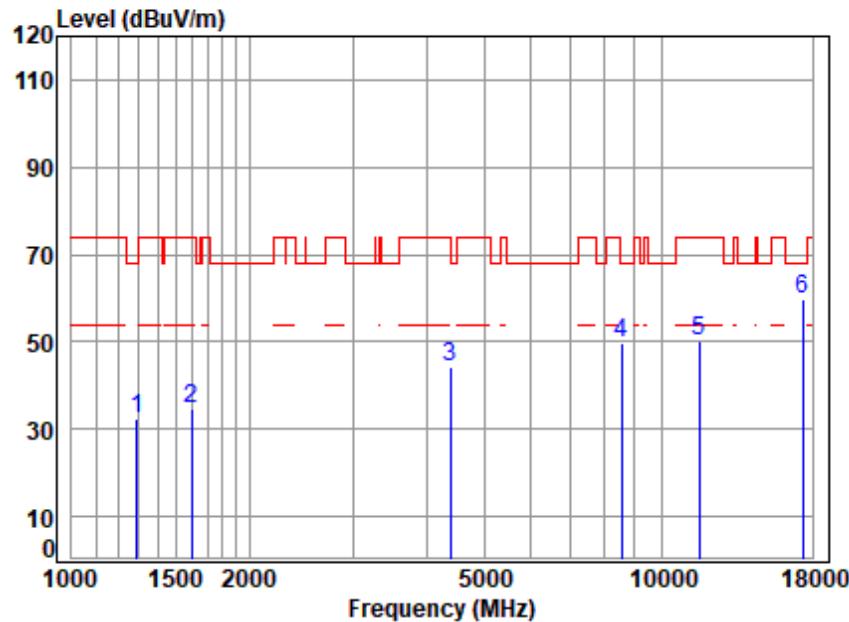
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5785 TX SE
Note : 5G WIFI 11N20

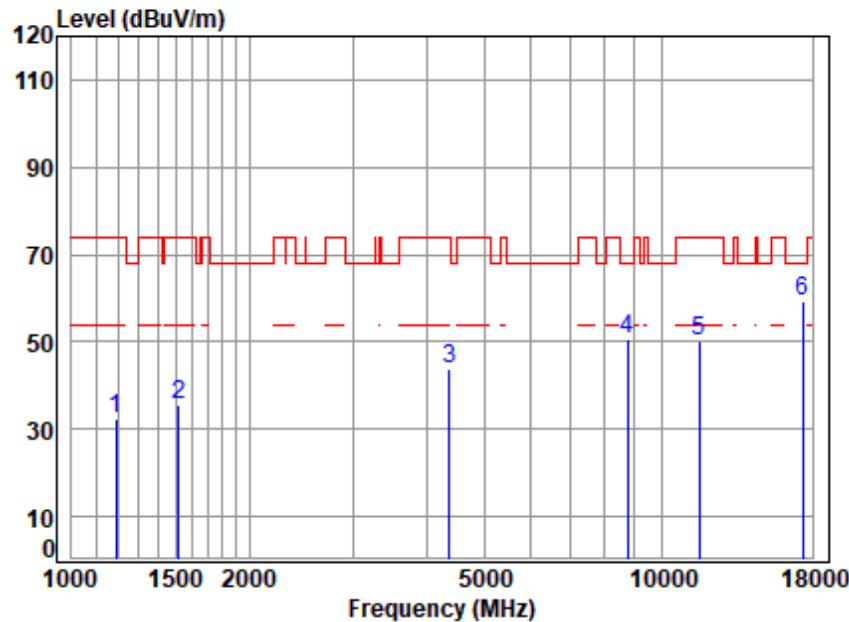
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1	1289.627	2.87	24.98	40.35	44.68	32.18	68.20	-36.02 peak
2	1597.181	2.95	26.24	40.57	45.93	34.55	74.00	-39.45 peak
3	4379.699	6.61	33.39	42.46	46.51	44.05	74.00	-29.95 peak
4	8539.102	8.73	37.02	40.26	44.31	49.80	68.20	-18.40 peak
5	11570.000	10.66	37.87	38.72	40.42	50.23	74.00	-23.77 peak
6	17355.000	13.87	42.81	40.52	43.50	59.66	68.20	-8.54 peak

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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5785 TX SE
Note : 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1189.368	2.58	24.54	40.27	45.34	32.19	74.00	-41.81 peak
2	1520.598	2.98	25.89	40.52	47.05	35.40	74.00	-38.60 peak
3	4367.058	6.56	33.37	42.45	46.33	43.81	74.00	-30.19 peak
4	8764.146	8.50	37.11	39.89	44.99	50.71	68.20	-17.49 peak
5	11570.000	10.66	37.87	38.72	40.44	50.25	74.00	-23.75 peak
6	17355.000	13.87	42.81	40.52	43.20	59.36	68.20	-8.84 peak

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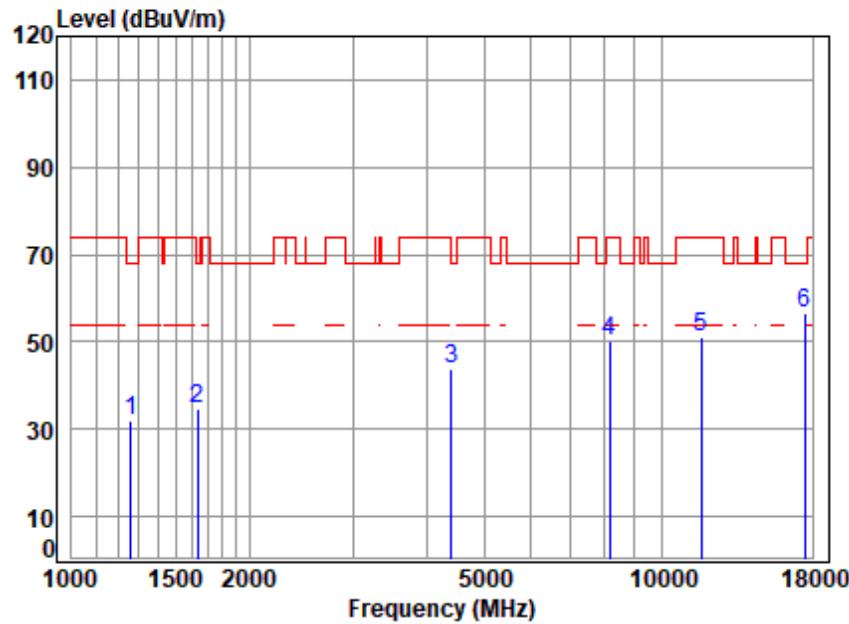
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 TX SE
Note : 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	2.79	24.85	40.33	44.45	31.76	68.20	-36.44 peak
2	1634.543	3.08	26.40	40.59	45.96	34.85	68.20	-33.35 peak
3	4405.090	6.67	33.44	42.48	45.96	43.59	68.20	-24.61 peak
4	8176.795	8.37	36.81	40.89	45.89	50.18	74.00	-23.82 peak
5	11650.000	10.52	37.84	38.75	41.72	51.33	74.00	-22.67 peak
6	17475.000	13.18	42.89	40.52	41.06	56.61	68.20	-11.59 peak

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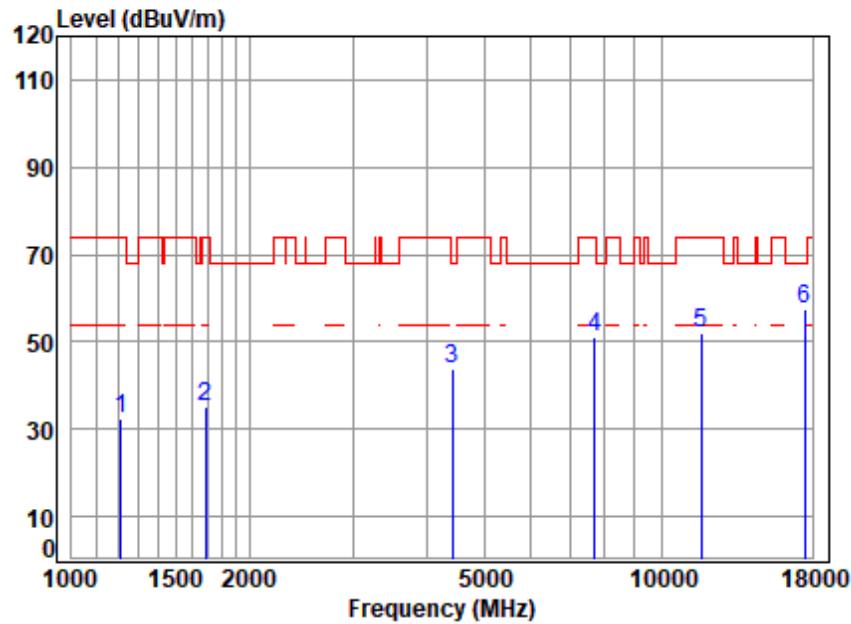
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 TX SE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1213.677	2.67	24.65	40.29	45.41	32.44	74.00	-41.56	peak
2 1687.347	3.27	26.62	40.62	45.69	34.96	74.00	-39.04	peak
3 4417.841	6.63	33.46	42.49	46.42	44.02	68.20	-24.18	peak
4 7695.244	8.58	36.46	41.34	47.23	50.93	74.00	-23.07	peak
5 11650.000	10.52	37.84	38.75	42.46	52.07	74.00	-21.93	peak
6 17475.000	13.18	42.89	40.52	41.90	57.45	68.20	-10.75	peak

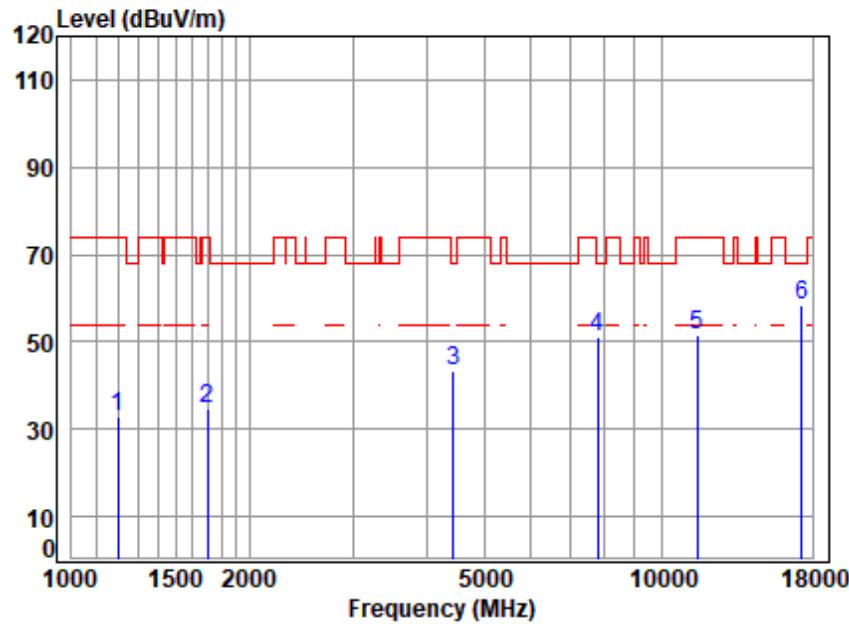
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5755 TX SE
Note : 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.264	2.61	24.57	40.28	45.85	32.75	74.00	-41.25 peak
2 1697.129	3.30	26.66	40.63	45.47	34.80	74.00	-39.20 peak
3 4443.453	6.55	33.50	42.51	45.66	43.20	68.20	-25.00 peak
4 7784.729	8.59	36.53	41.30	47.31	51.13	68.20	-17.07 peak
5 11510.000	10.89	37.90	38.69	41.39	51.49	74.00	-22.51 peak
6 17265.000	14.47	42.76	40.52	41.87	58.58	68.20	-9.62 peak

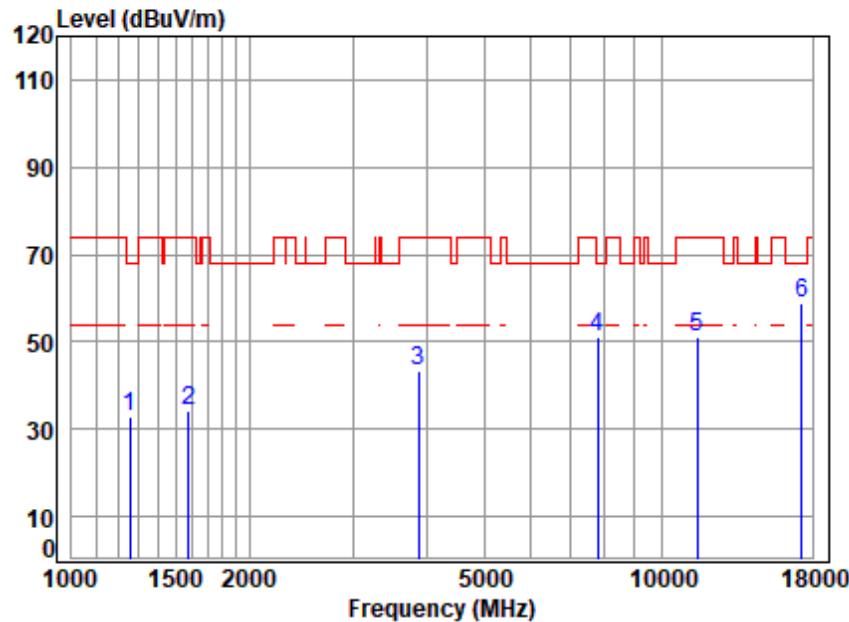
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5755 TX SE
Note : 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1256.512	2.79	24.84	40.33	45.53	32.83	68.20 -35.37 peak
2	1578.822	2.96	26.16	40.56	45.85	34.41	74.00 -39.59 peak
3	3867.831	6.33	32.45	42.05	46.77	43.50	74.00 -30.50 peak
4	7784.729	8.59	36.53	41.30	47.17	50.99	68.20 -17.21 peak
5	11510.000	10.89	37.90	38.69	41.20	51.30	74.00 -22.70 peak
6	17265.000	14.47	42.76	40.52	42.03	58.74	68.20 -9.46 peak

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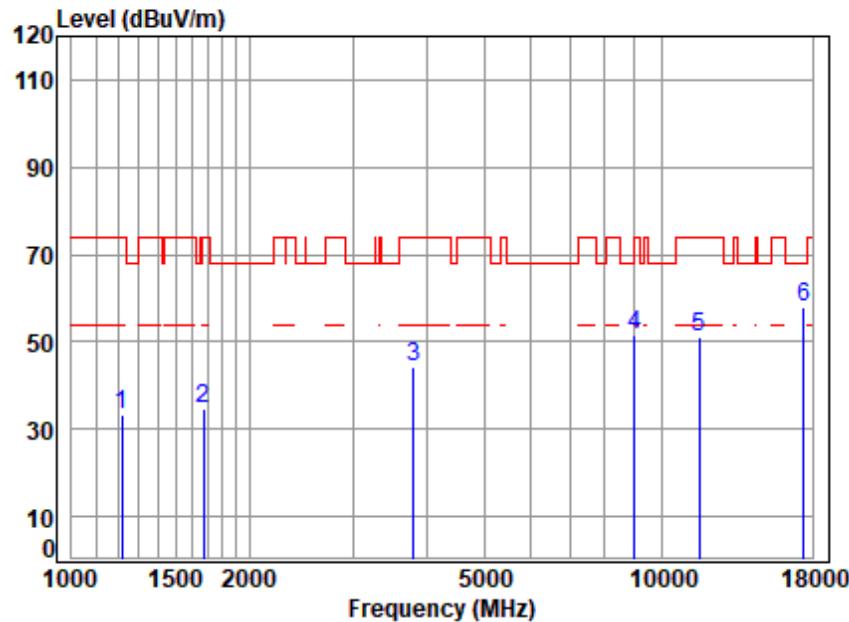
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



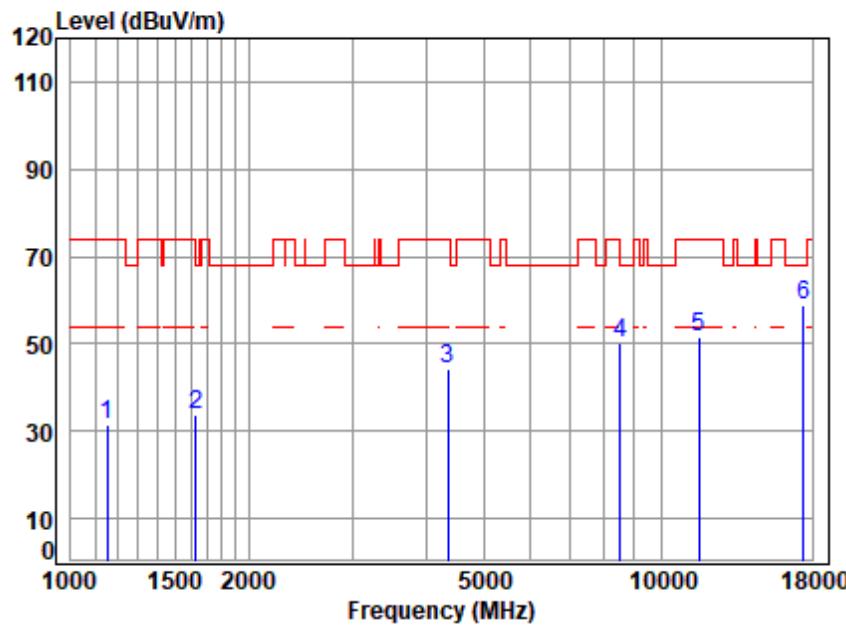
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5795 TX SE
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1217.190	2.68	24.67	40.30	46.06	33.11	74.00	-40.89	peak
2 1672.779	3.21	26.56	40.62	45.38	34.53	74.00	-39.47	peak
3 3801.333	7.01	32.32	41.99	46.97	44.31	74.00	-29.69	peak
4 8995.123	9.03	37.20	39.52	44.92	51.63	68.20	-16.57	peak
5 11590.000	10.59	37.86	38.73	41.55	51.27	74.00	-22.73	peak
6 17385.000	13.46	42.83	40.52	42.31	58.08	68.20	-10.12	peak

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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5795 TX SE
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1	1152.148	2.42	24.37	40.24	44.99	31.54	74.00	-42.46 peak
2	1629.825	3.06	26.38	40.59	44.80	33.65	68.20	-34.55 peak
3	4354.454	6.51	33.35	42.44	46.72	44.14	74.00	-29.86 peak
4	8514.456	8.66	37.01	40.31	44.64	50.00	68.20	-18.20 peak
5	11590.000	10.59	37.86	38.73	41.90	51.62	74.00	-22.38 peak
6	17385.000	13.46	42.83	40.52	43.03	58.80	68.20	-9.40 peak

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7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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

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.

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 (68.2dBuV/m).
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 (68.2dBuV/m).
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 (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

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7.8.1 E.U.T. Operation

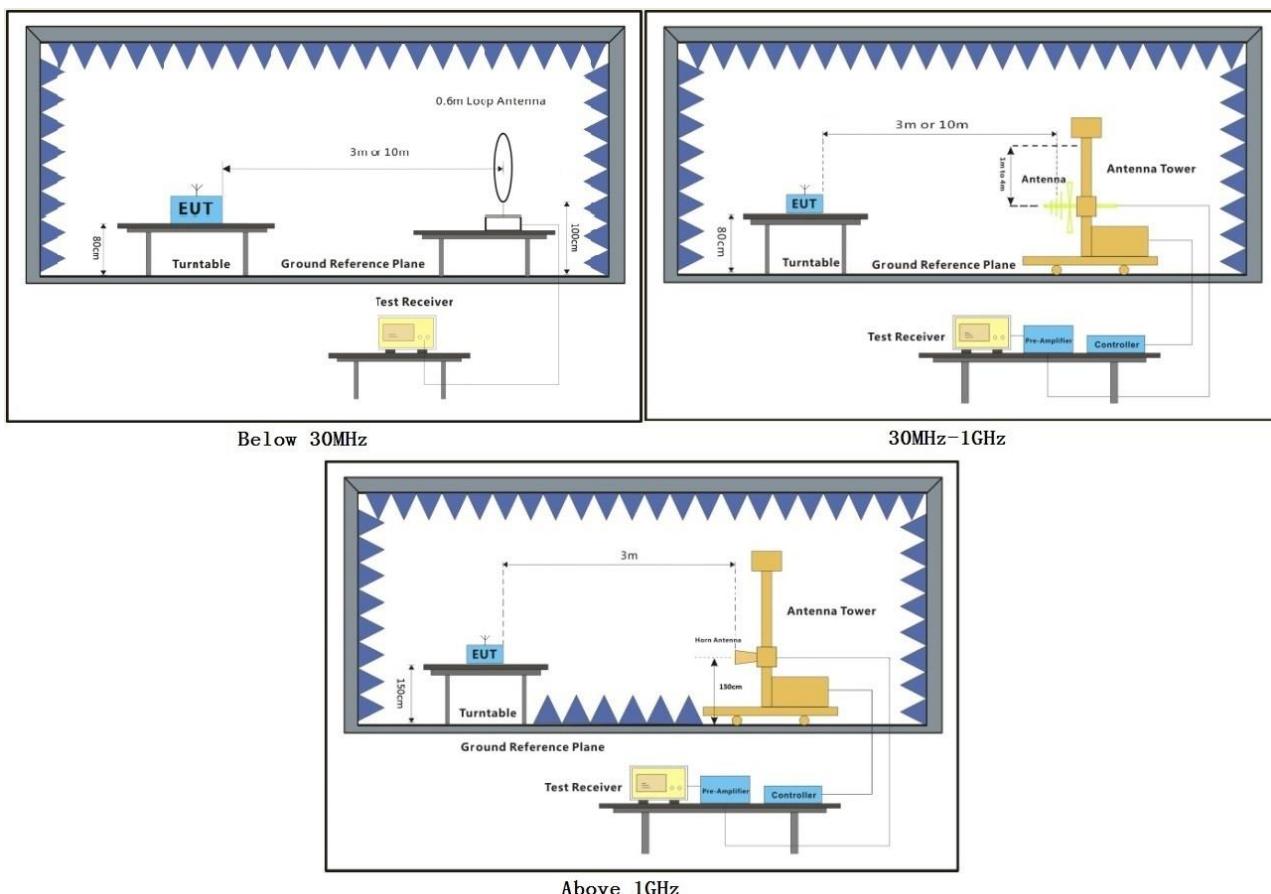
Operating Environment:

Temperature: 24.4 °C Humidity: 64.7 % RH Atmospheric Pressure: 1010 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram



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7.8.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



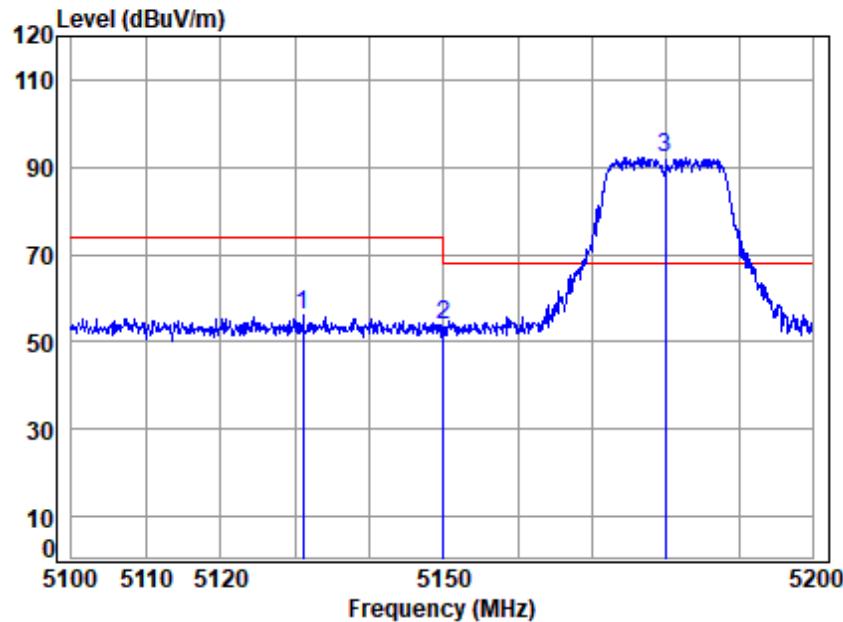
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Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5131.091	6.81	34.31	42.81	57.90	56.21	74.00	-17.79	peak
2 5149.980	6.81	34.32	42.79	55.45	53.79	74.00	-20.21	peak
3 * 5180.000	6.81	34.35	42.77	93.92	92.31	68.20	24.11	peak

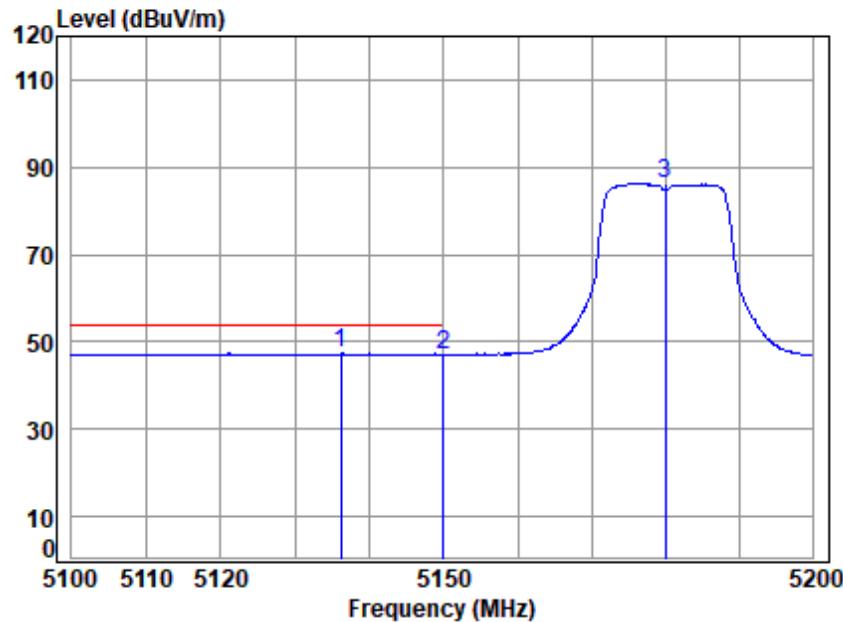
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Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



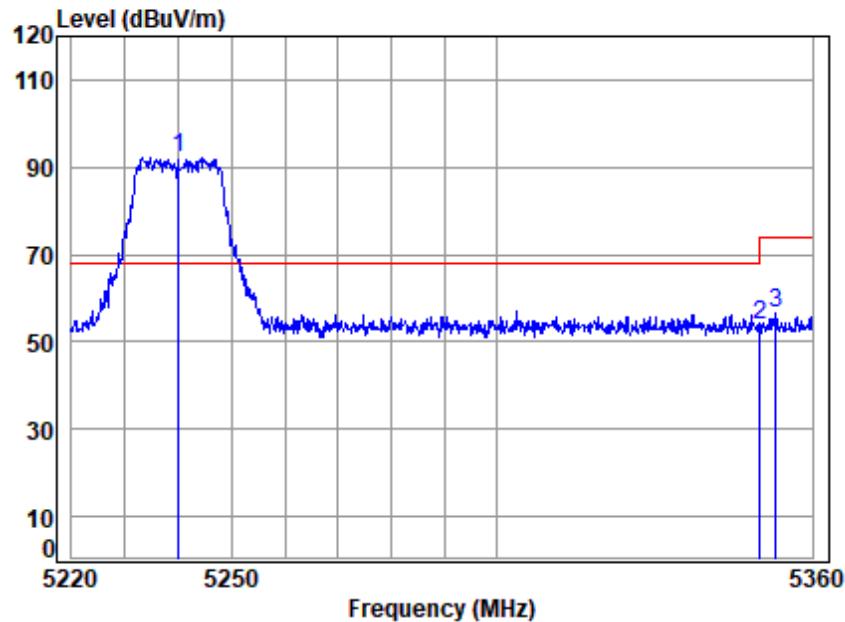
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5136.076	6.81	34.31	42.80	48.97	47.29	54.00	-6.71 Average
2	5149.980	6.81	34.32	42.79	48.84	47.18	54.00	-6.82 Average
3	5180.000	6.81	34.35	42.77	87.76	86.15	-----	----- Average

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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 * 5240.000	6.91	34.40	42.73	93.72	92.30	68.20	24.10	peak
2 5350.020	7.08	34.48	42.66	54.92	53.82	74.00	-20.18	peak
3 5353.053	7.08	34.49	42.65	57.46	56.38	74.00	-17.62	peak

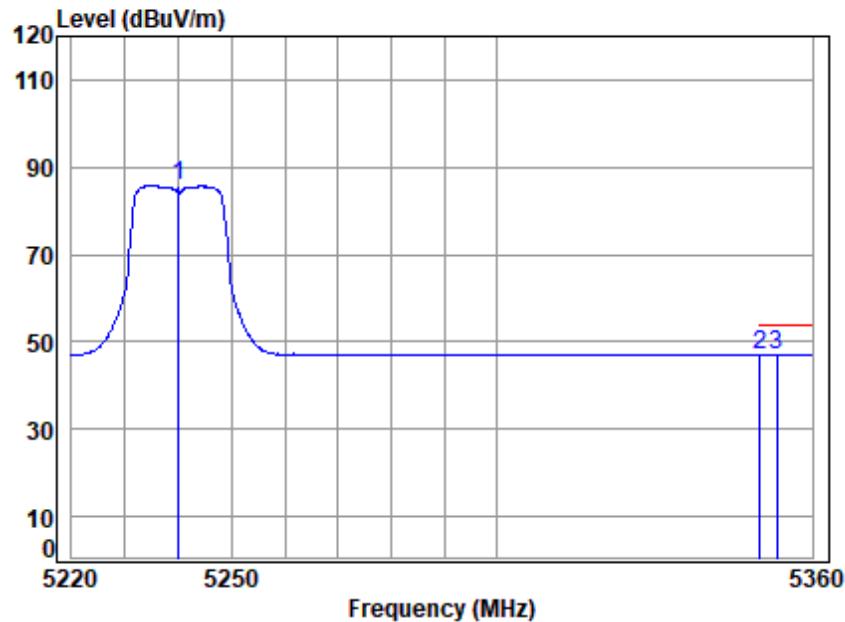
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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1	5240.000	6.91	34.40	42.73	87.07	85.65	-----	Average
2	5350.020	7.08	34.48	42.66	48.03	46.93	54.00	-7.07 Average
3	5353.195	7.08	34.49	42.65	48.14	47.06	54.00	-6.94 Average

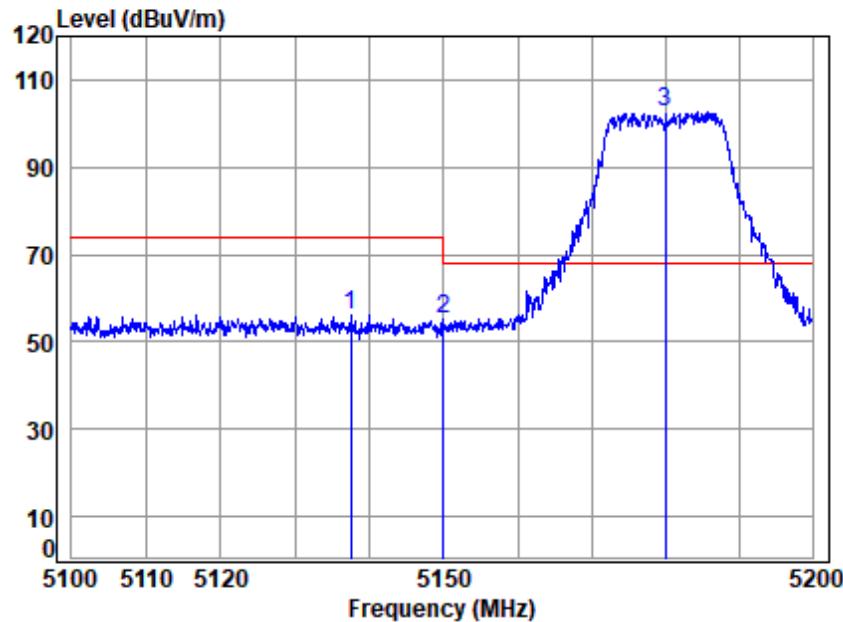
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Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5137.472	6.81	34.31	42.80	57.95	56.27	74.00	-17.73	peak
2 5149.980	6.81	34.32	42.79	56.67	55.01	74.00	-18.99	peak
3 * 5180.000	6.81	34.35	42.77	104.15	102.54	68.20	34.34	peak

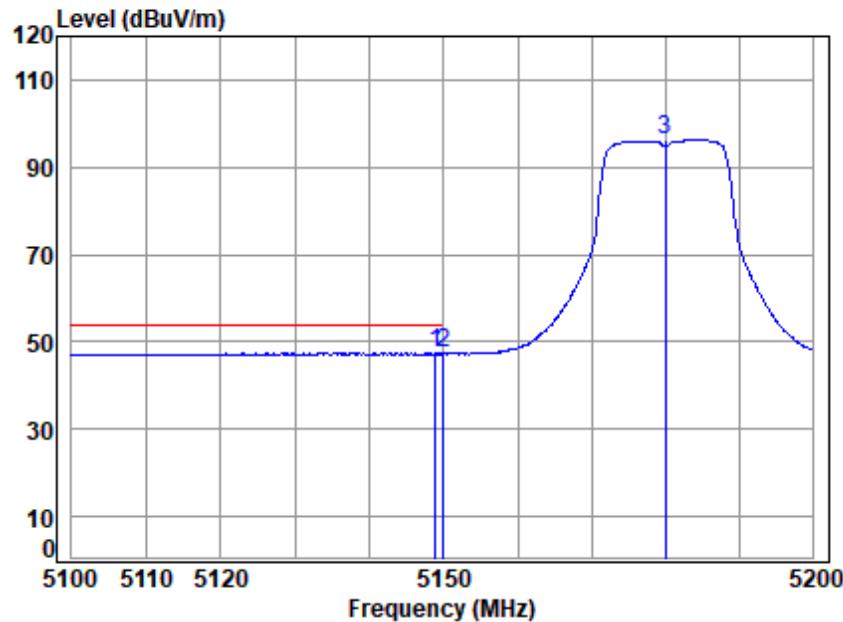
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Mode:b; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



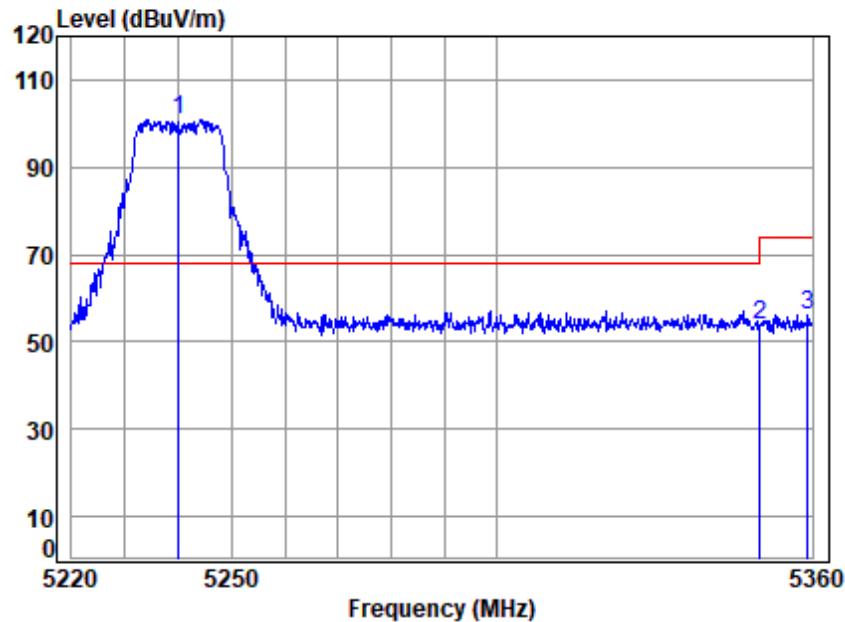
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1	5148.857	6.81	34.32	42.79	49.01	47.35	54.00	-6.65 Average
2	5149.980	6.81	34.32	42.79	48.96	47.30	54.00	-6.70 Average
3	5180.000	6.81	34.35	42.77	97.83	96.22	-----	----- Average

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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1 * 5240.000	6.91	34.40	42.73	102.22	100.80	68.20	32.60	peak
2 5350.020	7.08	34.48	42.66	55.02	53.92	74.00	-20.08	peak
3 5359.149	7.08	34.49	42.65	57.34	56.26	74.00	-17.74	peak

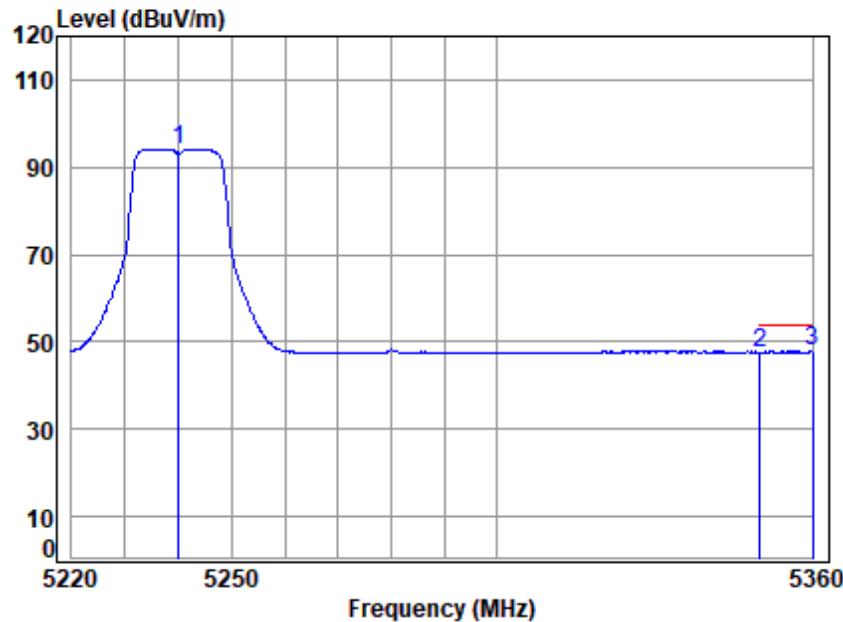
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Mode:b; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1 5240.000	6.91	34.40	42.73	95.64	94.22	-----	-----	Average
2 5350.020	7.08	34.48	42.66	48.72	47.62	54.00	-6.38	Average
3 5360.000	7.08	34.49	42.65	48.96	47.88	54.00	-6.12	Average

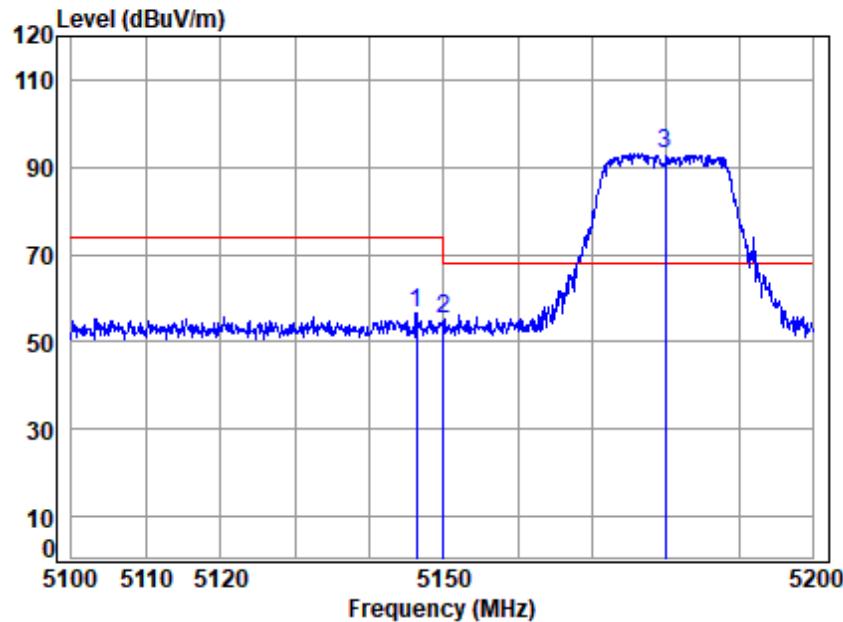
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03232CR/03233CR/03234CR

Mode : 5180 Band edge

: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5146.358	6.81	34.32	42.80	58.33	56.66	74.00	-17.34	peak
2 5149.980	6.81	34.32	42.79	56.66	55.00	74.00	-19.00	peak
3 * 5180.000	6.81	34.35	42.77	94.59	92.98	68.20	24.78	peak

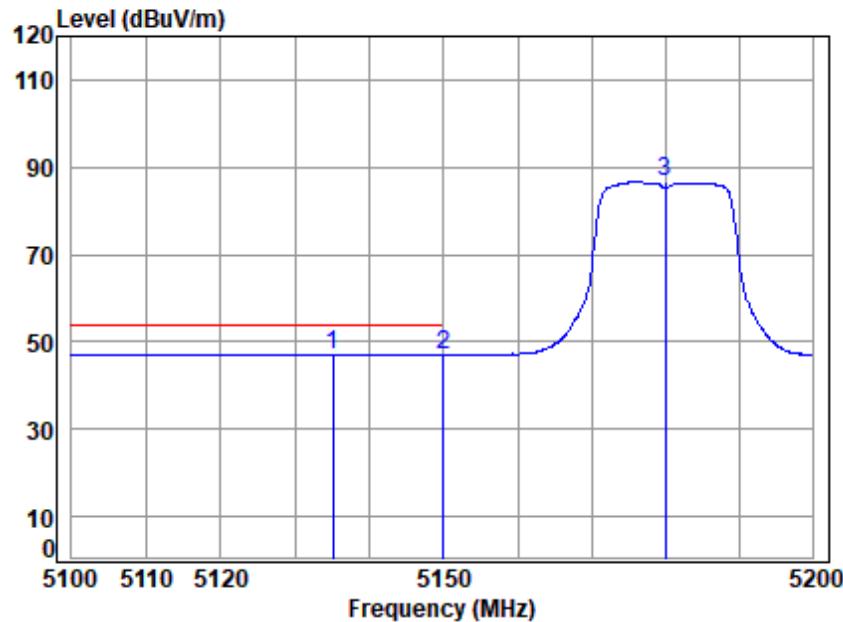
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5135.079	6.81	34.31	42.80	48.87	47.19	54.00	-6.81 Average
2	5149.980	6.81	34.32	42.79	48.66	47.00	54.00	-7.00 Average
3	5180.000	6.81	34.35	42.77	88.17	86.56	-----	----- Average

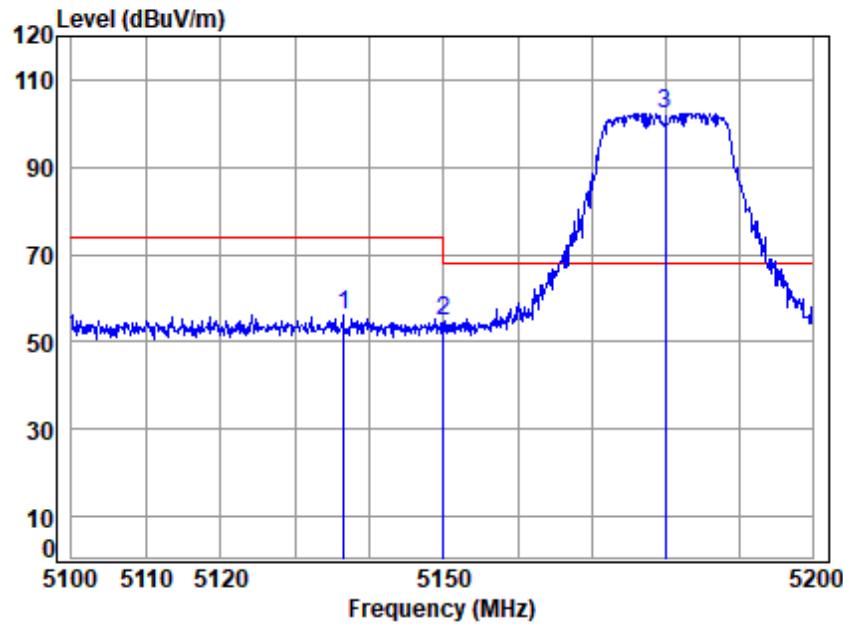
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5136.475	6.81	34.31	42.80	57.66	55.98	74.00	-18.02	peak
2 5149.980	6.81	34.32	42.79	56.27	54.61	74.00	-19.39	peak
3 * 5180.000	6.81	34.35	42.77	104.02	102.41	68.20	34.21	peak

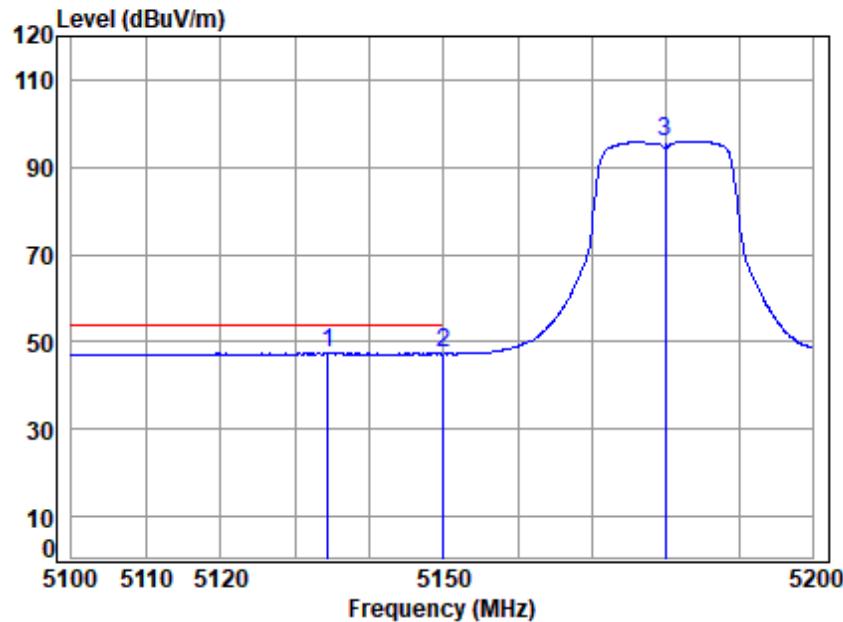
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5180 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1	5134.380	6.81	34.31	42.80	49.08	47.40	54.00	-6.60 Average
2	5149.980	6.81	34.32	42.79	48.98	47.32	54.00	-6.68 Average
3	5180.000	6.81	34.35	42.77	97.64	96.03	-----	----- Average

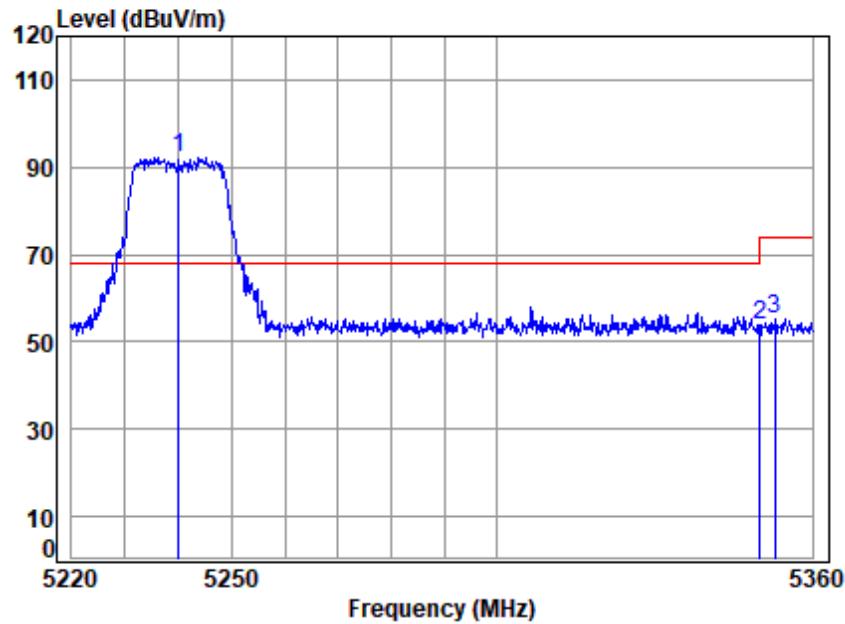
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



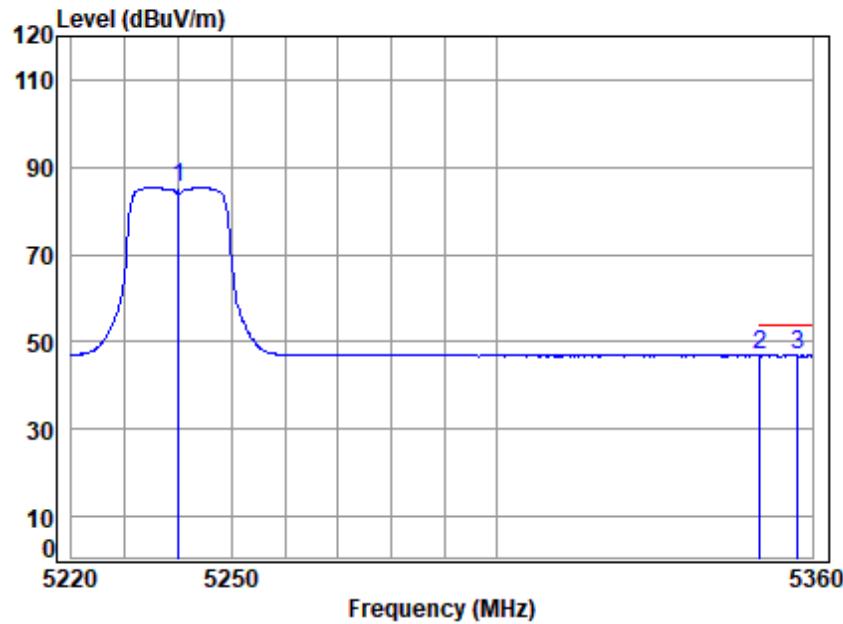
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 * 5240.000	6.91	34.40	42.73	93.48	92.06	68.20	23.86	peak
2 5350.020	7.08	34.48	42.66	55.16	54.06	74.00	-19.94	peak
3 5352.770	7.08	34.49	42.65	56.41	55.33	74.00	-18.67	peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1	5240.000	6.91	34.40	42.73	86.81	85.39	-----	Average
2	5350.020	7.08	34.48	42.66	47.93	46.83	54.00	-7.17 Average
3	5357.164	7.08	34.49	42.65	48.06	46.98	54.00	-7.02 Average

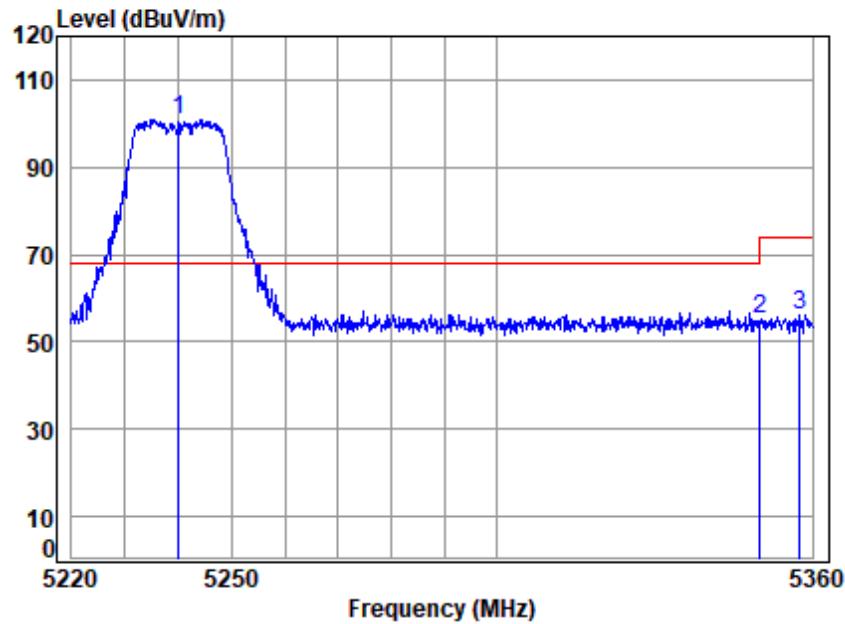
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 * 5240.000	6.91	34.40	42.73	102.39	100.97	68.20	32.77	peak
2 5350.020	7.08	34.48	42.66	56.28	55.18	74.00	-18.82	peak
3 5357.589	7.08	34.49	42.65	57.36	56.28	74.00	-17.72	peak

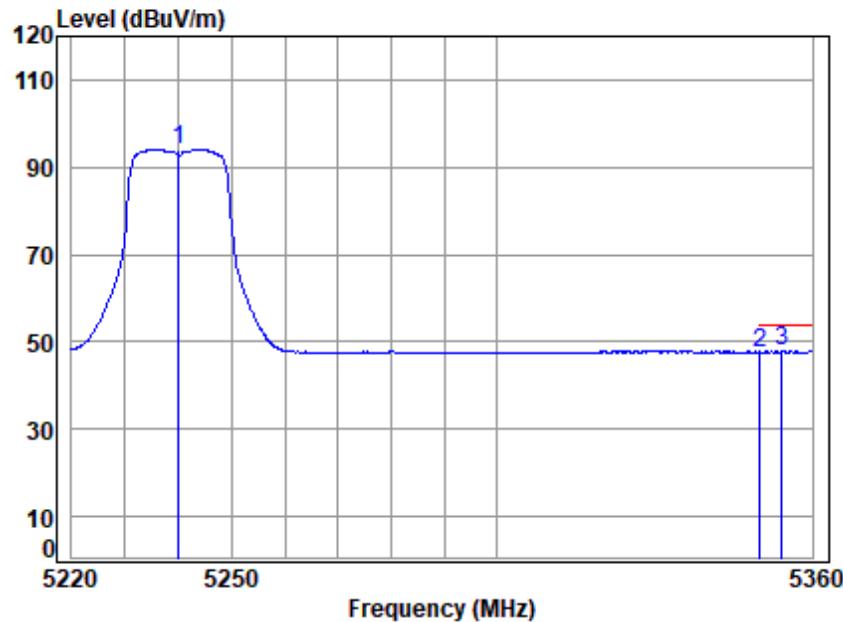
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5240 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1	5240.000	6.91	34.40	42.73	95.42	94.00	-----	Average
2	5350.020	7.08	34.48	42.66	48.73	47.63	54.00	-6.37 Average
3	5354.187	7.08	34.49	42.65	48.91	47.83	54.00	-6.17 Average

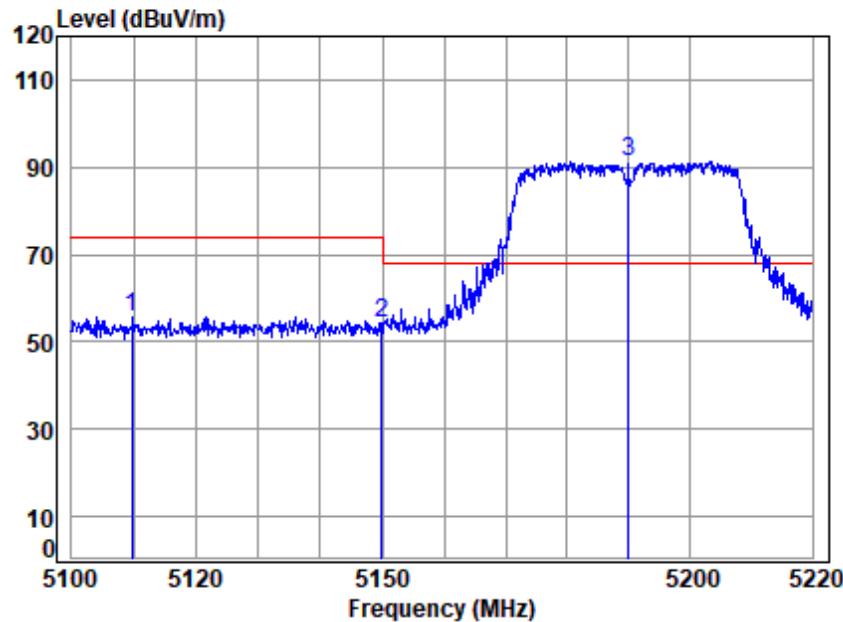
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5190 Band edge
: 5G WIFI 11N40

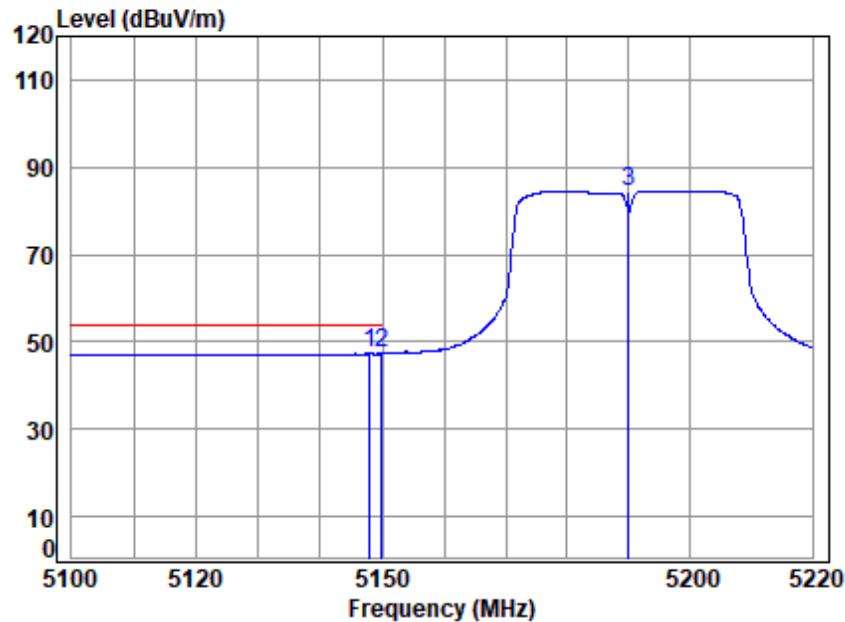
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1 5109.735	6.81	34.29	42.82	57.28	55.56	74.00	-18.44	peak
2 5149.980	6.81	34.32	42.79	55.92	54.26	74.00	-19.74	peak
3 * 5190.000	6.81	34.36	42.77	92.84	91.24	68.20	23.04	peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03232CR/03233CR/03234CR

Mode : 5190 Band edge

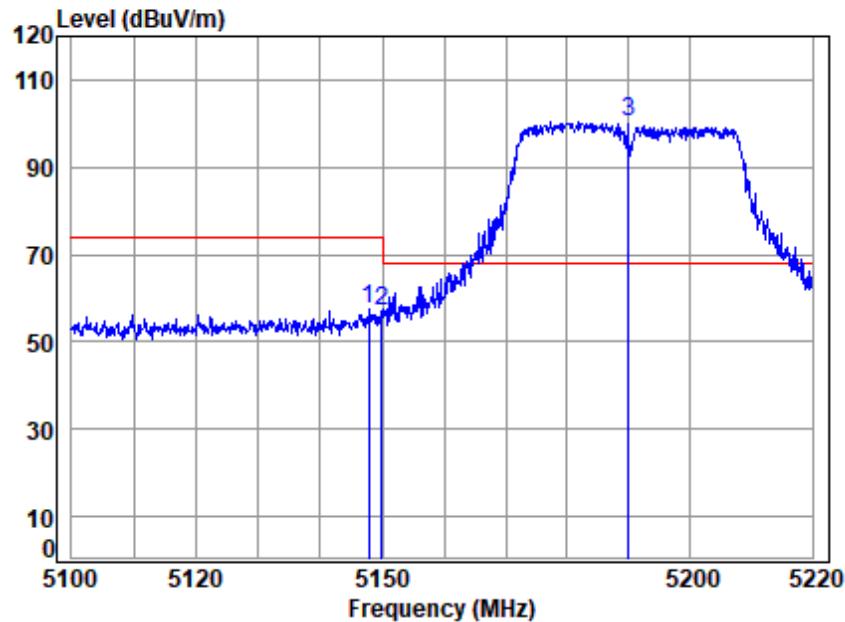
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5148.024	6.81	34.32	42.79	48.93	47.27	54.00	-6.73 Average
2	5149.980	6.81	34.32	42.79	49.05	47.39	54.00	-6.61 Average
3	5190.000	6.81	34.36	42.77	86.22	84.62	-----	----- Average

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



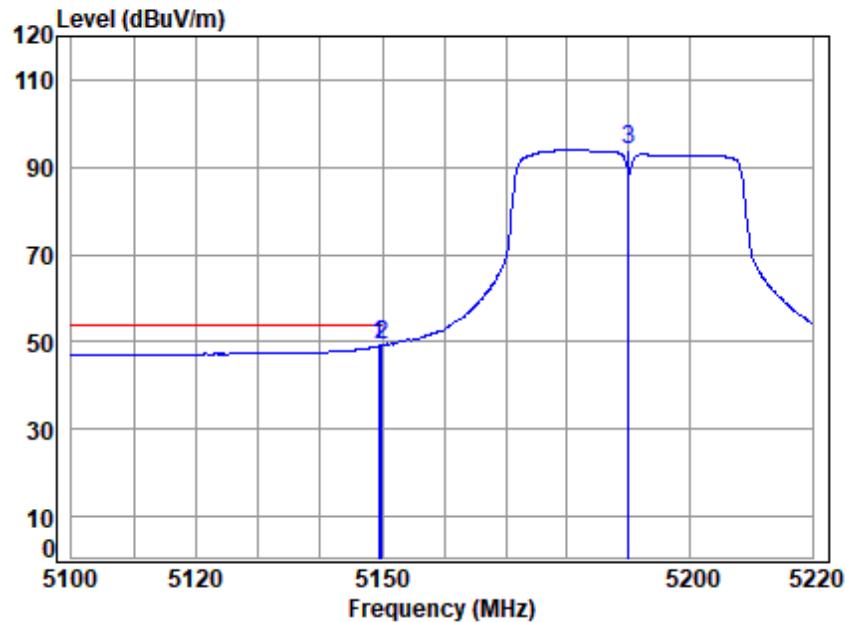
Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5190 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5147.785	6.81	34.32	42.79	59.12	57.46	74.00	-16.54	peak
2 5149.980	6.81	34.32	42.79	58.62	56.96	74.00	-17.04	peak
3 * 5190.000	6.81	34.36	42.77	101.93	100.33	68.20	32.13	peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5190 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5149.461	6.81	34.32	42.79	50.71	49.05	54.00	-4.95 Average
2	5149.980	6.81	34.32	42.79	50.87	49.21	54.00	-4.79 Average
3	5190.000	6.81	34.36	42.77	95.47	93.87	-----	----- Average

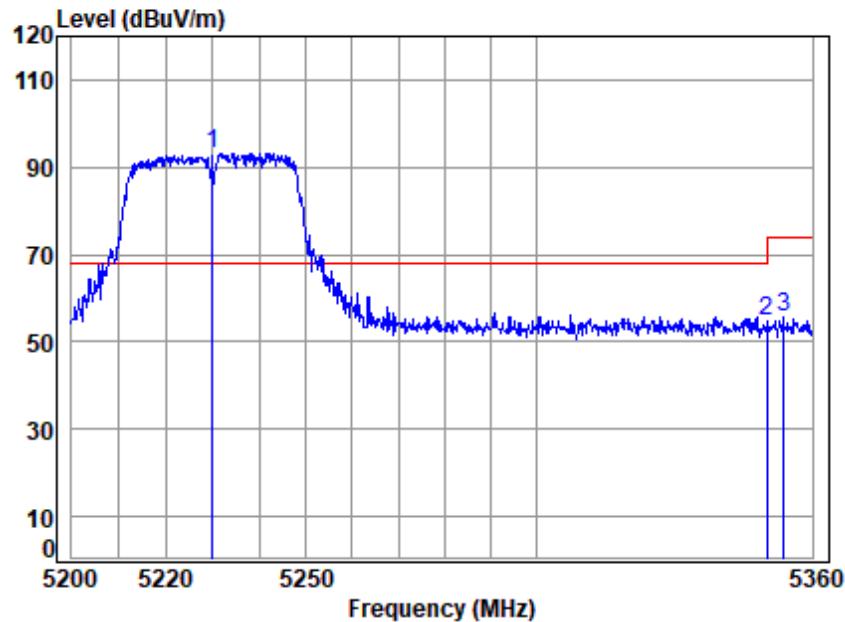
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5230 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 * 5230.000	6.89	34.39	42.74	94.65	93.19	68.20	24.99	peak
2 5350.020	7.08	34.48	42.66	56.07	54.97	74.00	-19.03	peak
3 5353.669	7.08	34.49	42.65	56.91	55.83	74.00	-18.17	peak

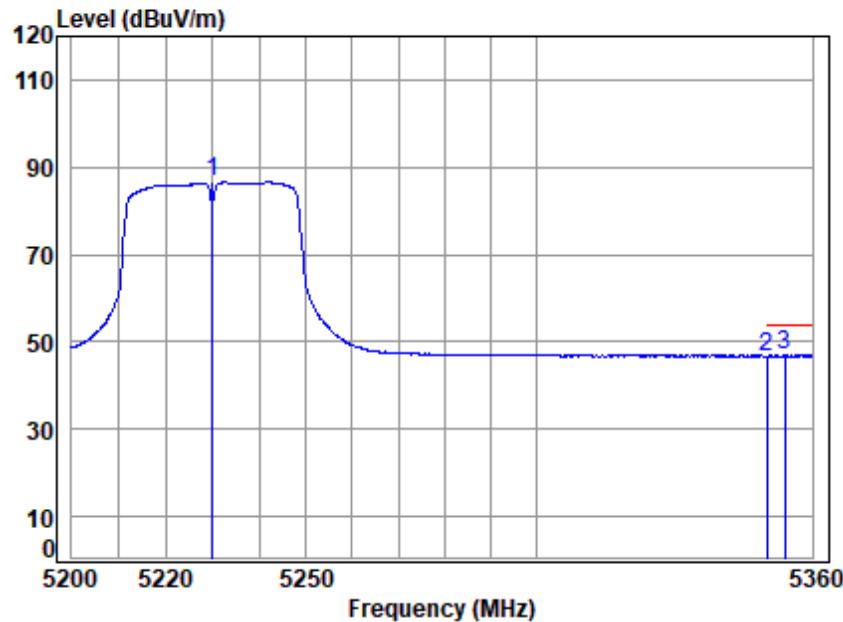
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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5230 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5230.000	6.89	34.39	42.74	87.97	86.51	-----	Average
2	5350.020	7.08	34.48	42.66	47.85	46.75	54.00	-7.25 Average
3	5353.993	7.08	34.49	42.65	47.94	46.86	54.00	-7.14 Average

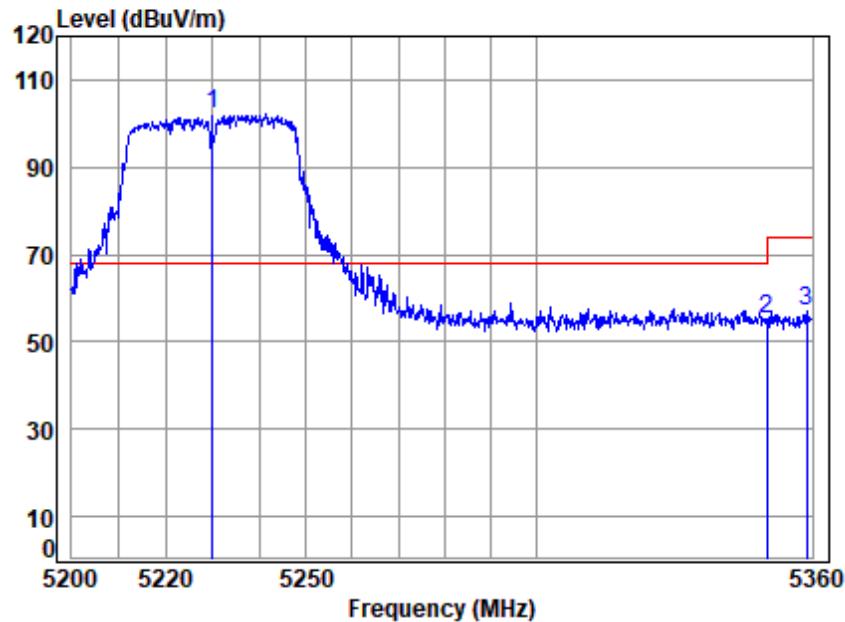
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5230 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 * 5230.000	6.89	34.39	42.74	103.44	101.98	68.20	33.78	peak
2 5350.020	7.08	34.48	42.66	56.44	55.34	74.00	-18.66	peak
3 5358.701	7.08	34.49	42.65	58.14	57.06	74.00	-16.94	peak

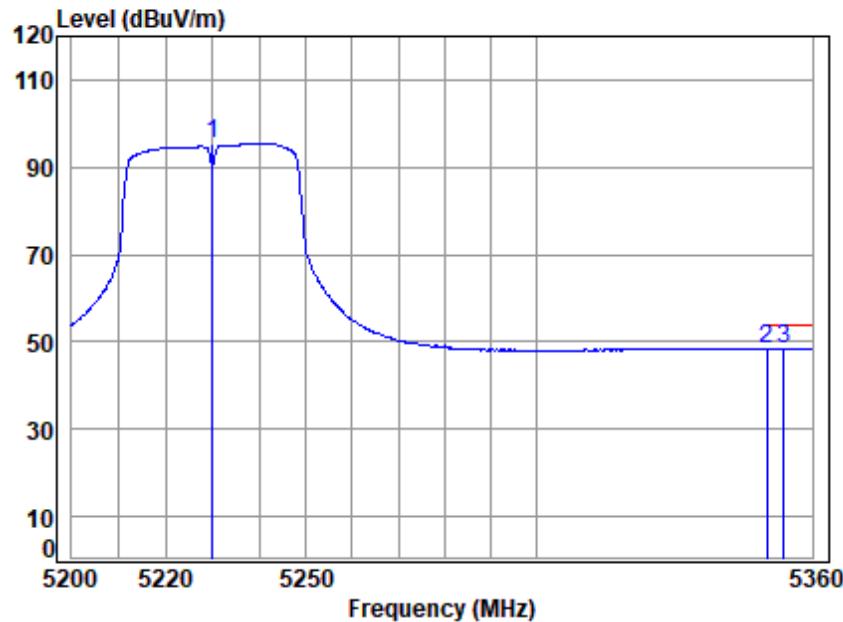
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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5230 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5230.000	6.89	34.39	42.74	96.86	95.40	-----	Average
2	5350.020	7.08	34.48	42.66	49.44	48.34	54.00	-5.66 Average
3	5353.669	7.08	34.49	42.65	49.55	48.47	54.00	-5.53 Average

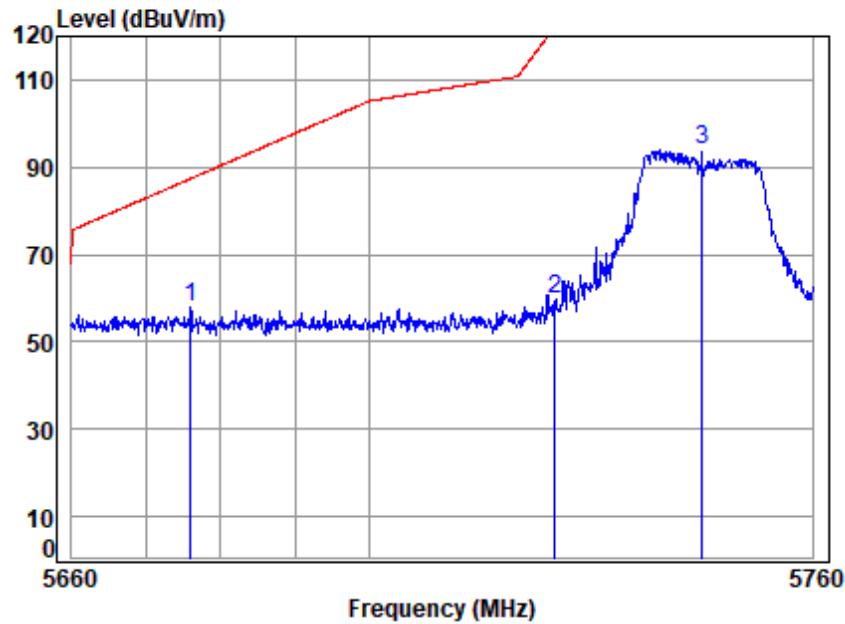
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5675.982	7.24	34.78	42.44	58.53	58.11	87.43	-29.32 Peak
2	5725.000	7.19	34.83	42.41	60.00	59.61	122.20	-62.59 peak
3	5745.000	7.14	34.85	42.40	94.24	93.83	-----	----- peak

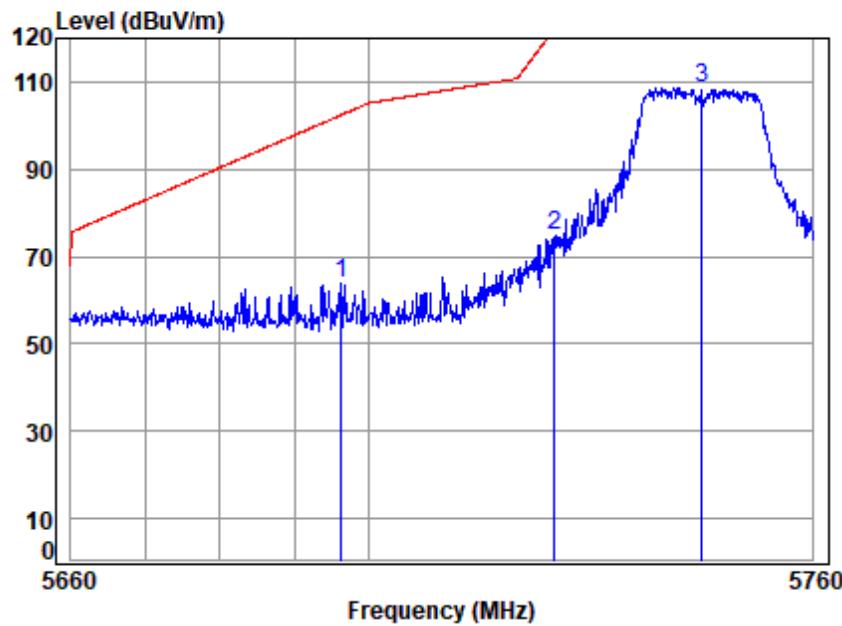
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5696.297	7.26	34.80	42.43	64.36	63.99	102.46	-38.47	Peak
2 5725.000	7.19	34.83	42.41	75.00	74.61	122.20	-47.59	peak
3 5745.000	7.14	34.85	42.40	109.01	108.60	-----	-----	peak

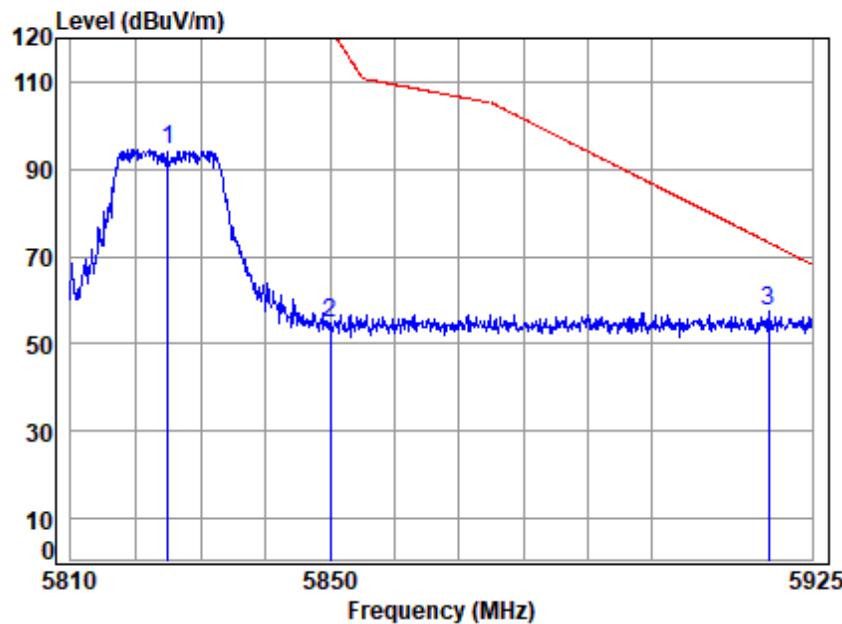
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03232CR/03233CR/03234CR

Mode : 5825 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
1 5825.000	7.03	34.93	42.35	94.89	94.50	-----	-----	peak
2 5850.000	7.06	34.95	42.33	55.26	54.94	122.20	-67.26	peak
3 5918.268	7.14	35.02	42.29	57.52	57.39	73.18	-15.79	Peak



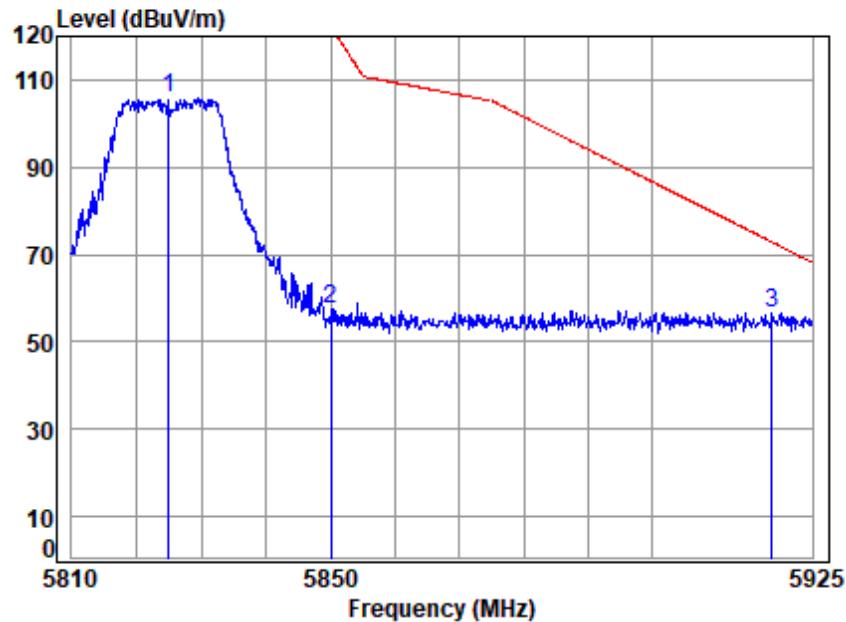
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Line	Remark
				Level	Level			
1 5825.000	7.03	34.93	42.35	106.04	105.65	-----	-----	peak
2 5850.000	7.06	34.95	42.33	57.93	57.61	122.20	-64.59	peak
3 5918.732	7.14	35.02	42.29	56.64	56.51	72.84	-16.33	Peak

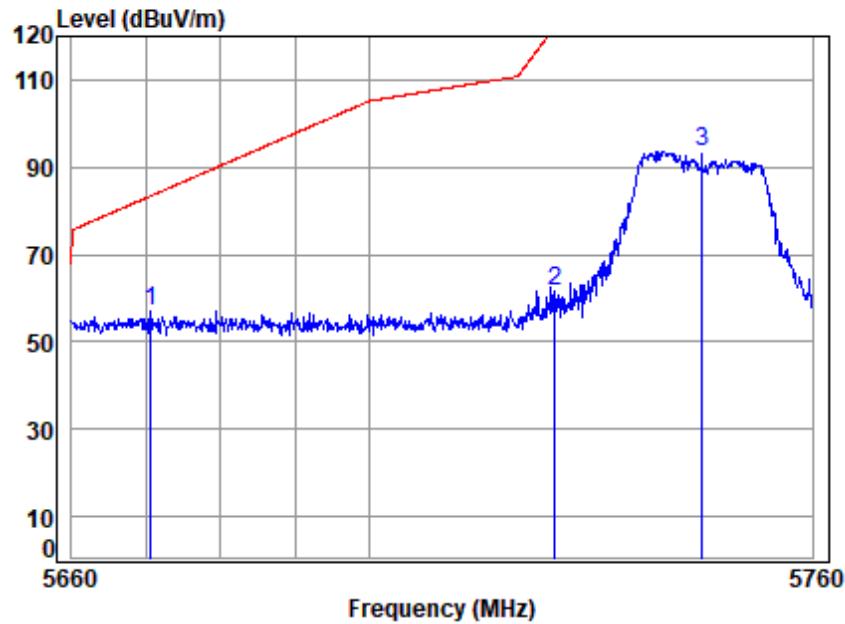
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 Band edge
: 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5670.617	7.23	34.78	42.44	57.46	57.03	83.46	-26.43 Peak
2	5725.000	7.19	34.83	42.41	61.76	61.37	122.20	-60.83 peak
3	5745.000	7.14	34.85	42.40	94.00	93.59	-----	----- peak

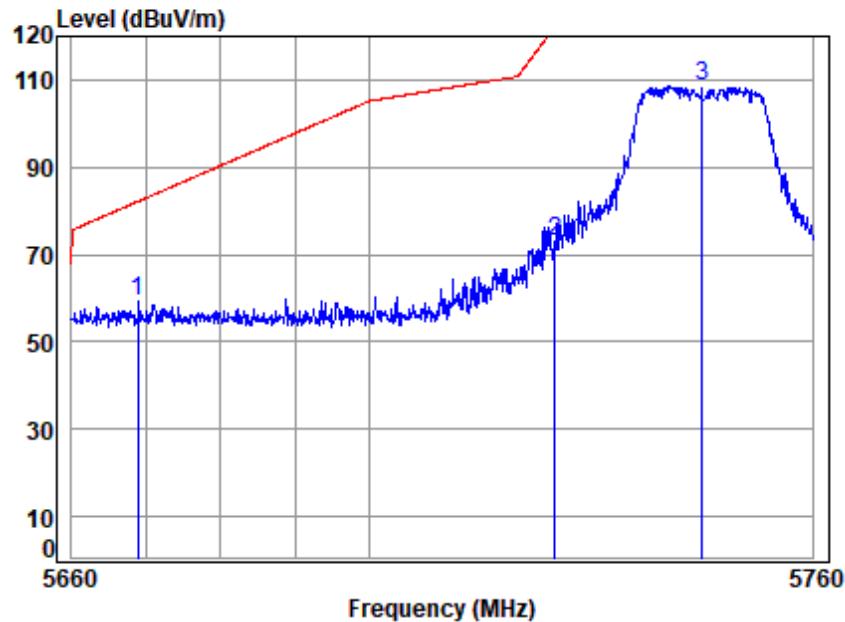
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5745 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5668.928	7.23	34.77	42.45	59.76	59.31	82.21	-22.90 Peak
2	5725.000	7.19	34.83	42.41	73.52	73.13	122.20	-49.07 peak
3	5745.000	7.14	34.85	42.40	108.88	108.47	-----	----- peak

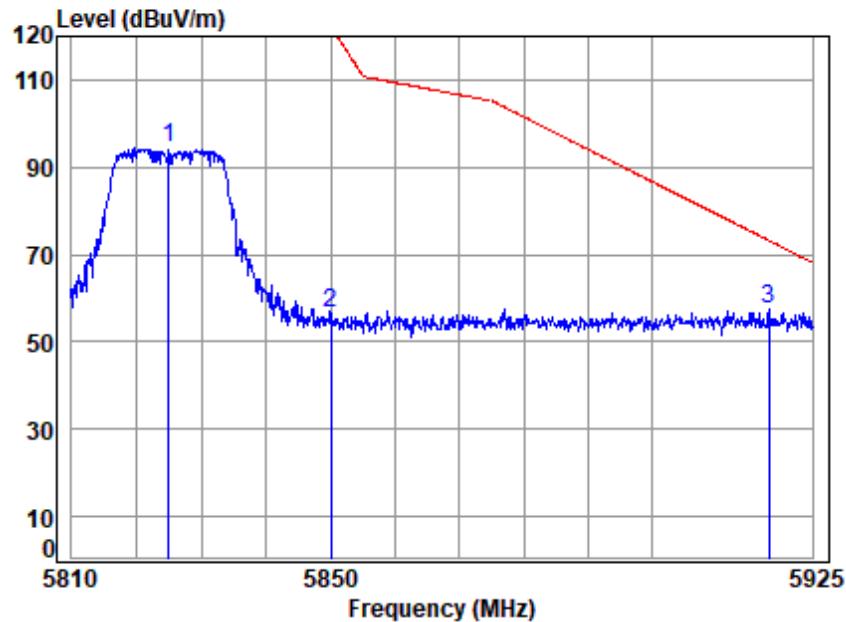
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5825.000	7.03	34.93	42.35	94.62	94.23	-----	-----	peak
2 5850.000	7.06	34.95	42.33	56.81	56.49	122.20	-65.71	peak
3 5918.152	7.14	35.02	42.29	57.40	57.27	73.27	-16.00	Peak

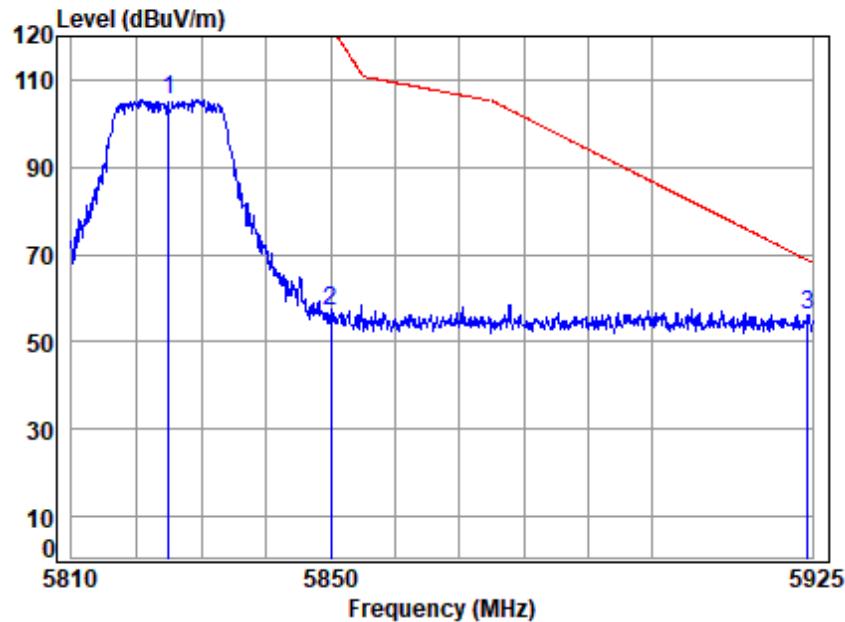
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5825 Band edge
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 5825.000	7.03	34.93	42.35	105.80	105.41	-----	-----	peak
2 5850.000	7.06	34.95	42.33	57.18	56.86	122.20	-65.34	peak
3 5924.303	7.15	35.03	42.29	56.44	56.33	68.72	-12.39	Peak

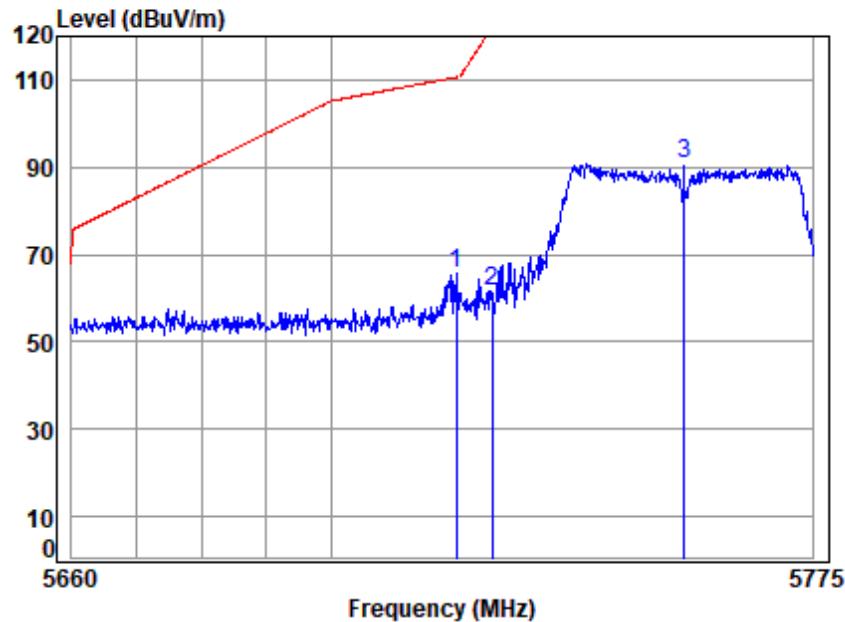
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03232CR/03233CR/03234CR

Mode : 5755 Band edge

: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5719.511	7.21	34.82	42.41	66.08	65.70	110.66	-44.96 Peak
2	5725.000	7.19	34.83	42.41	62.07	61.68	122.20	-60.52 peak
3	5755.000	7.12	34.86	42.39	91.02	90.61	-----	----- peak

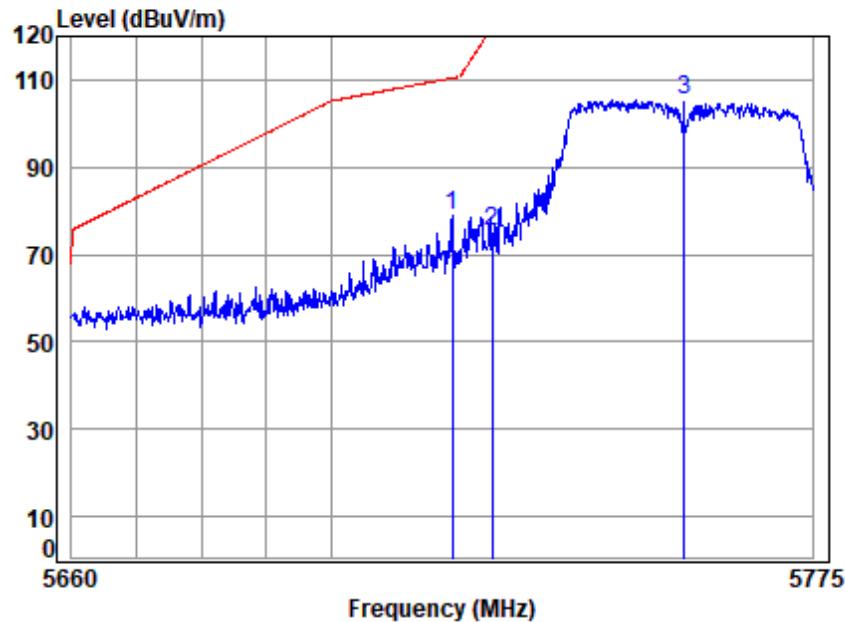
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03232CR/03233CR/03234CR

Mode : 5755 Band edge

: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	5718.821	7.21	34.82	42.41	79.33	78.95	110.47	-31.52 Peak
2	5725.000	7.19	34.83	42.41	75.55	75.16	122.20	-47.04 peak
3	5755.000	7.12	34.86	42.39	105.76	105.35	-----	----- peak

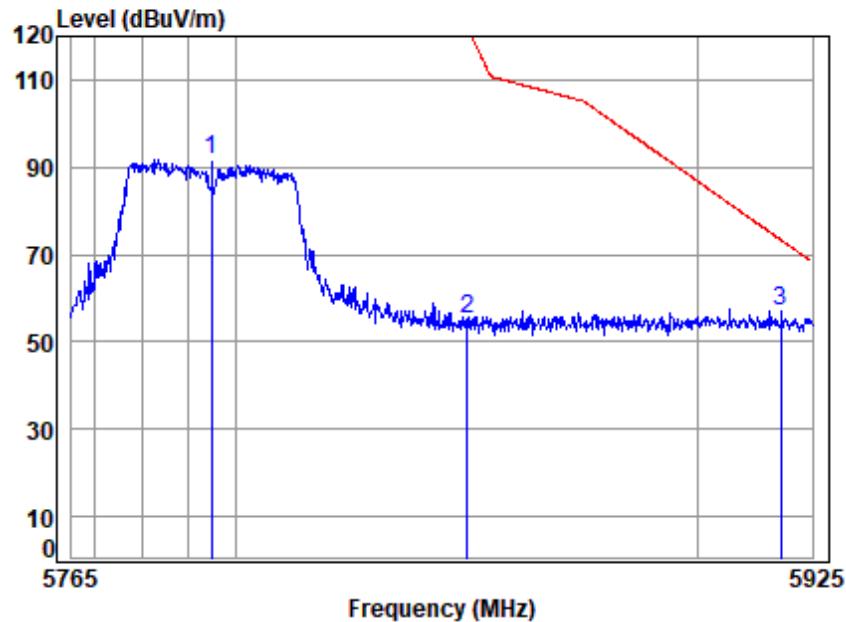
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03232CR/03233CR/03234CR
Mode : 5795 Band edge
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	7.01	34.90	42.37	91.99	91.53	-----	peak
2	5850.000	7.06	34.95	42.33	55.53	55.21	122.20	-66.99 peak
3	5918.191	7.14	35.02	42.29	57.12	56.99	73.24	-16.25 Peak

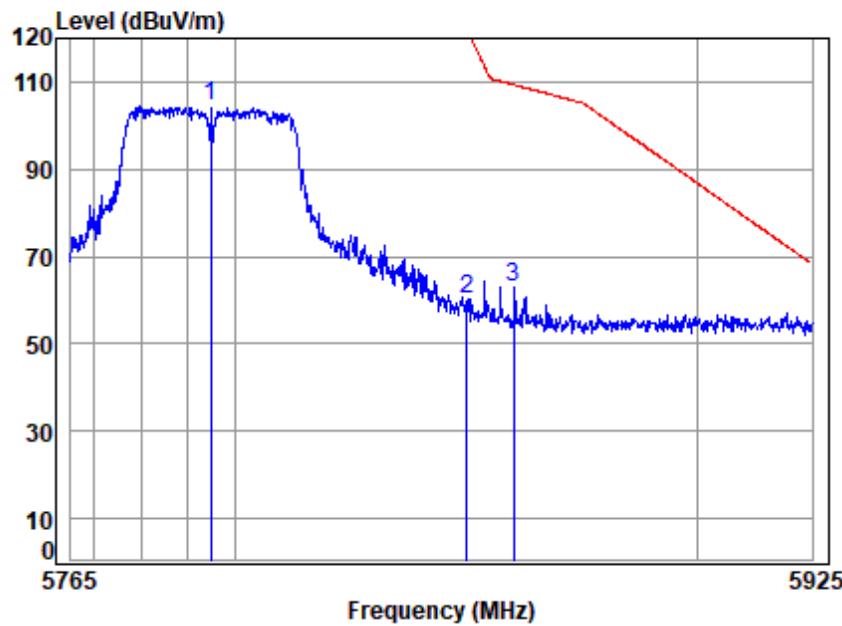
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03232CR/03233CR/03234CR
Mode : 5795 Band edge
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	7.01	34.90	42.37	104.81	104.35	-----	----- peak
2	5850.000	7.06	34.95	42.33	60.65	60.33	122.20	-61.87 peak
3	5860.000	7.07	34.96	42.33	63.11	62.81	109.40	-46.59 peak

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7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8
Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 40 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

7.9.1 E.U.T. Operation

N/A

7.9.2 Test Setup Diagram

N/A

7.9.3 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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8 Photographs

8.1 Test Setup

Refer to Setup Photos

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



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9 Appendix

9.1 Appendix 15.407

1. Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant1	22.140	---	PASS
11A	5180	Ant2	21.720	---	PASS
11A	5220	Ant1	22.380	---	PASS
11A	5220	Ant2	21.900	---	PASS
11A	5240	Ant1	22.260	---	PASS
11A	5240	Ant2	21.960	---	PASS
11N20	5180	Ant1	23.490	---	PASS
11N20	5180	Ant2	23.550	---	PASS
11N20	5220	Ant1	23.640	---	PASS
11N20	5220	Ant2	23.520	---	PASS
11N20	5240	Ant1	23.820	---	PASS
11N20	5240	Ant2	23.430	---	PASS
11N40	5190	Ant1	47.940	---	PASS
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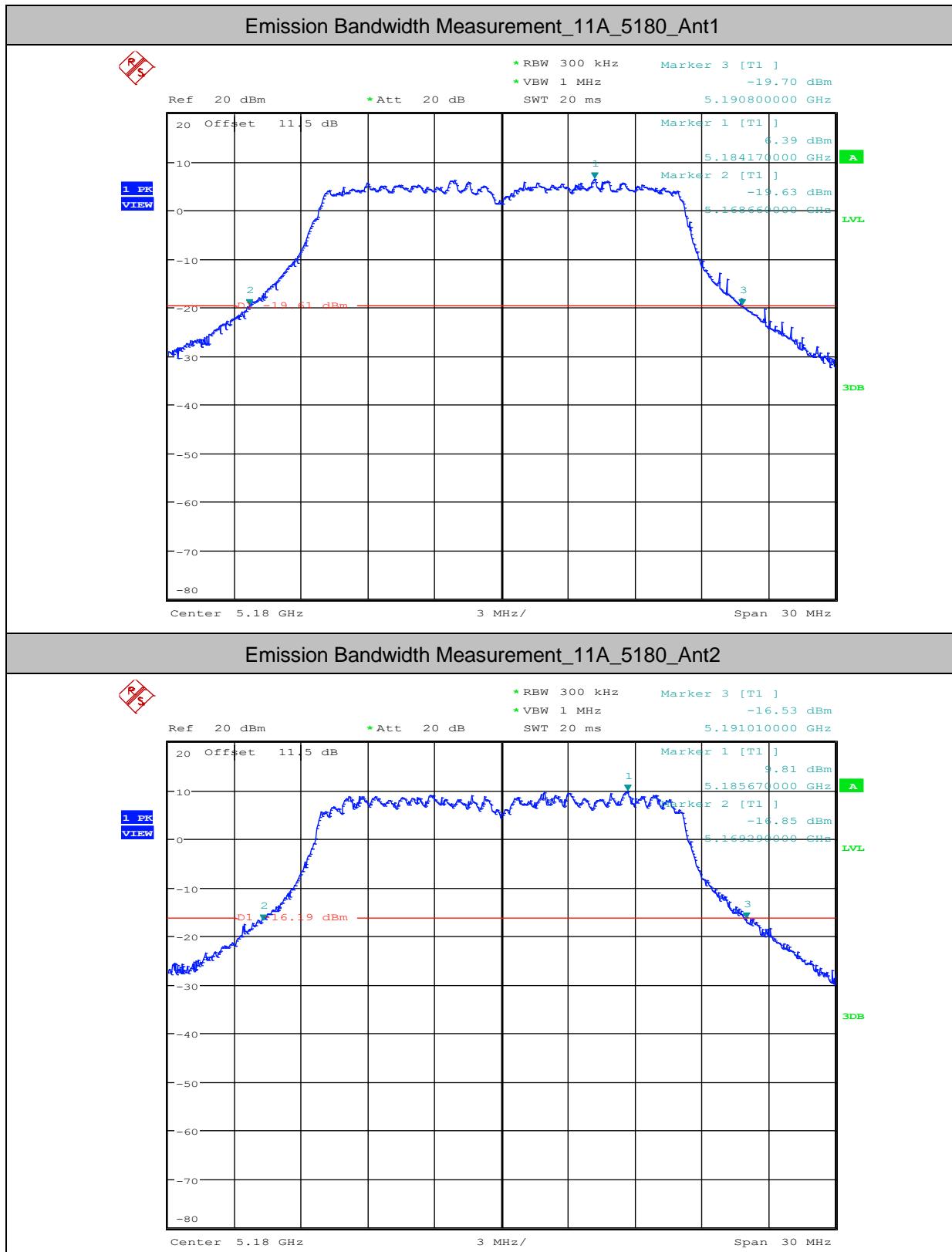
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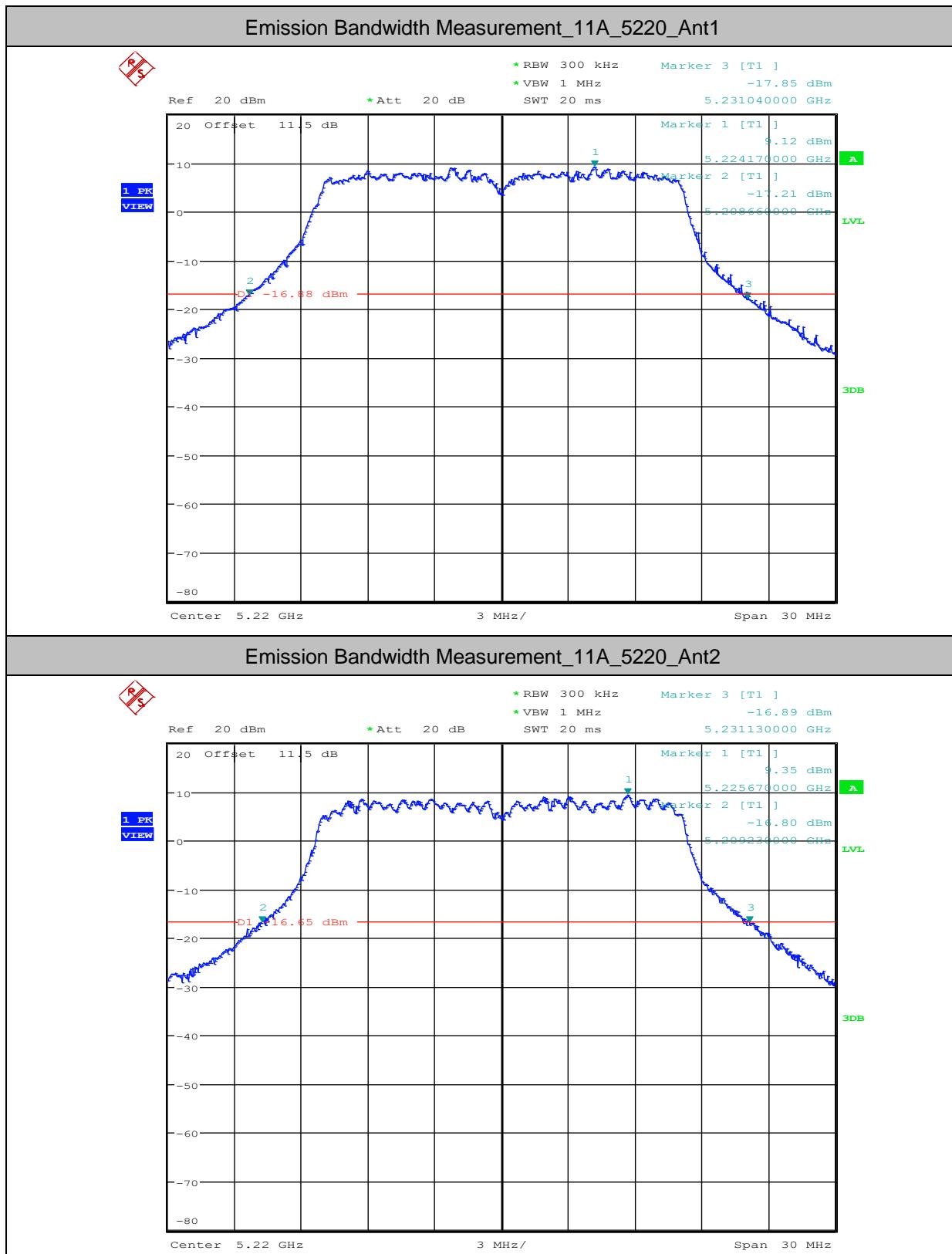
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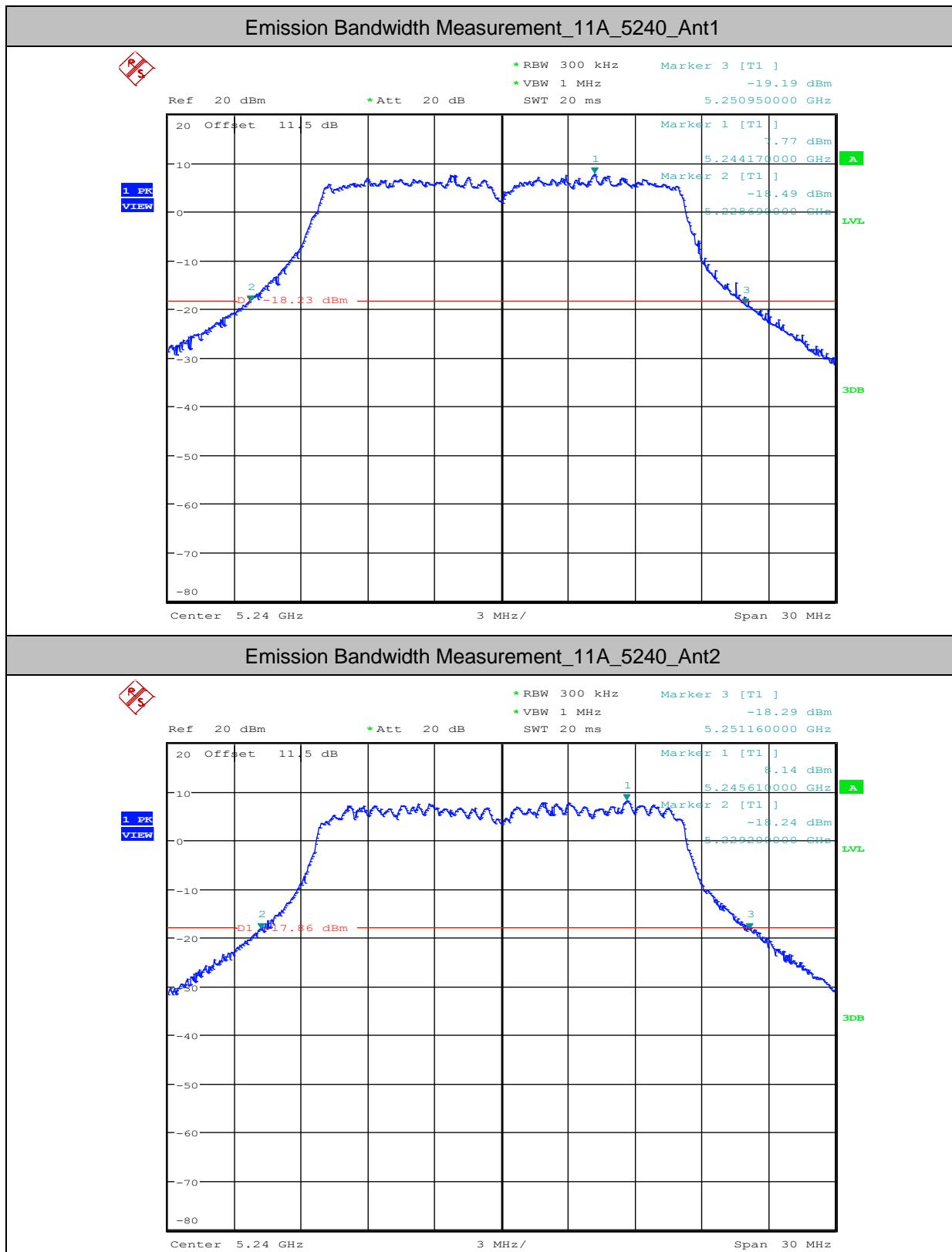
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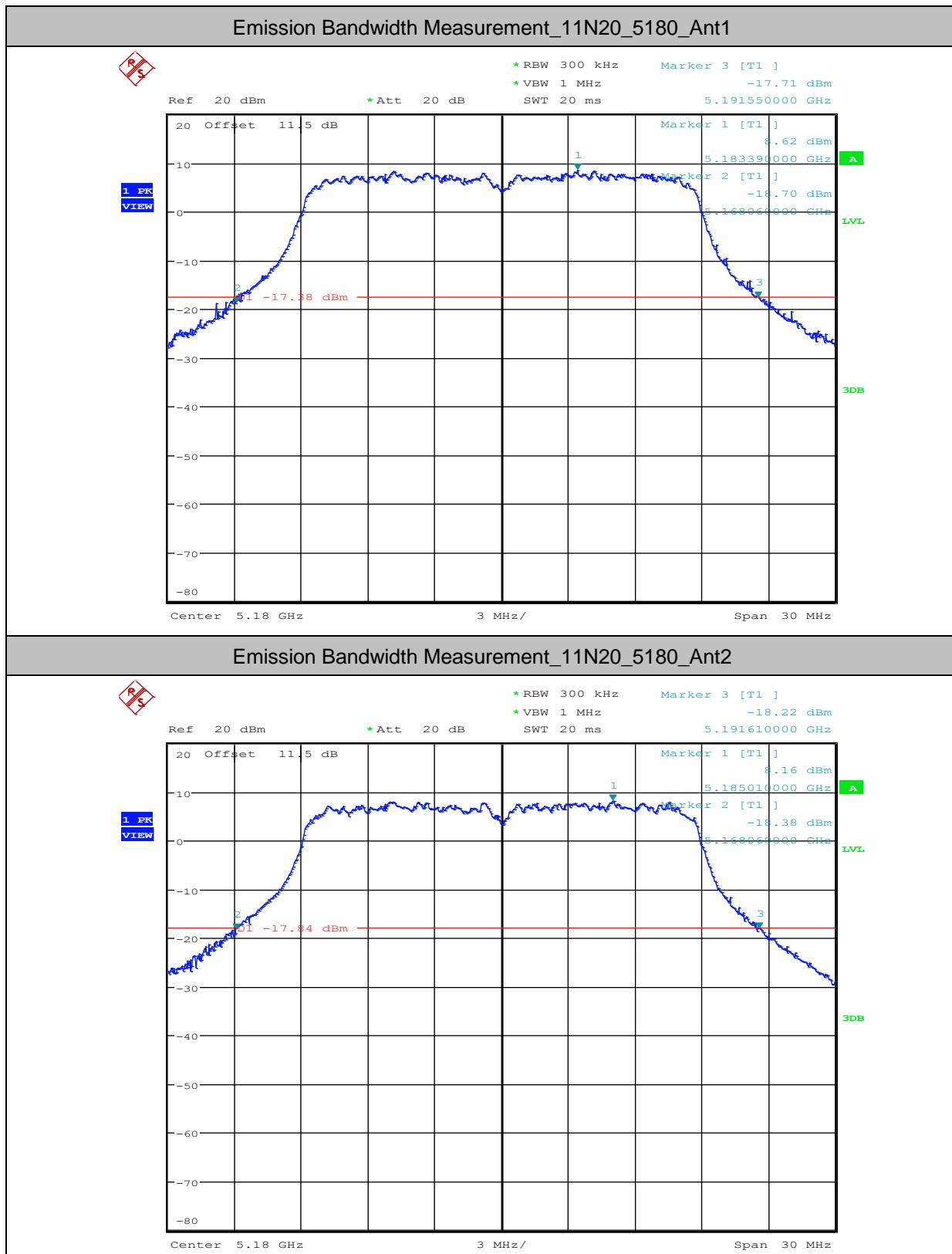
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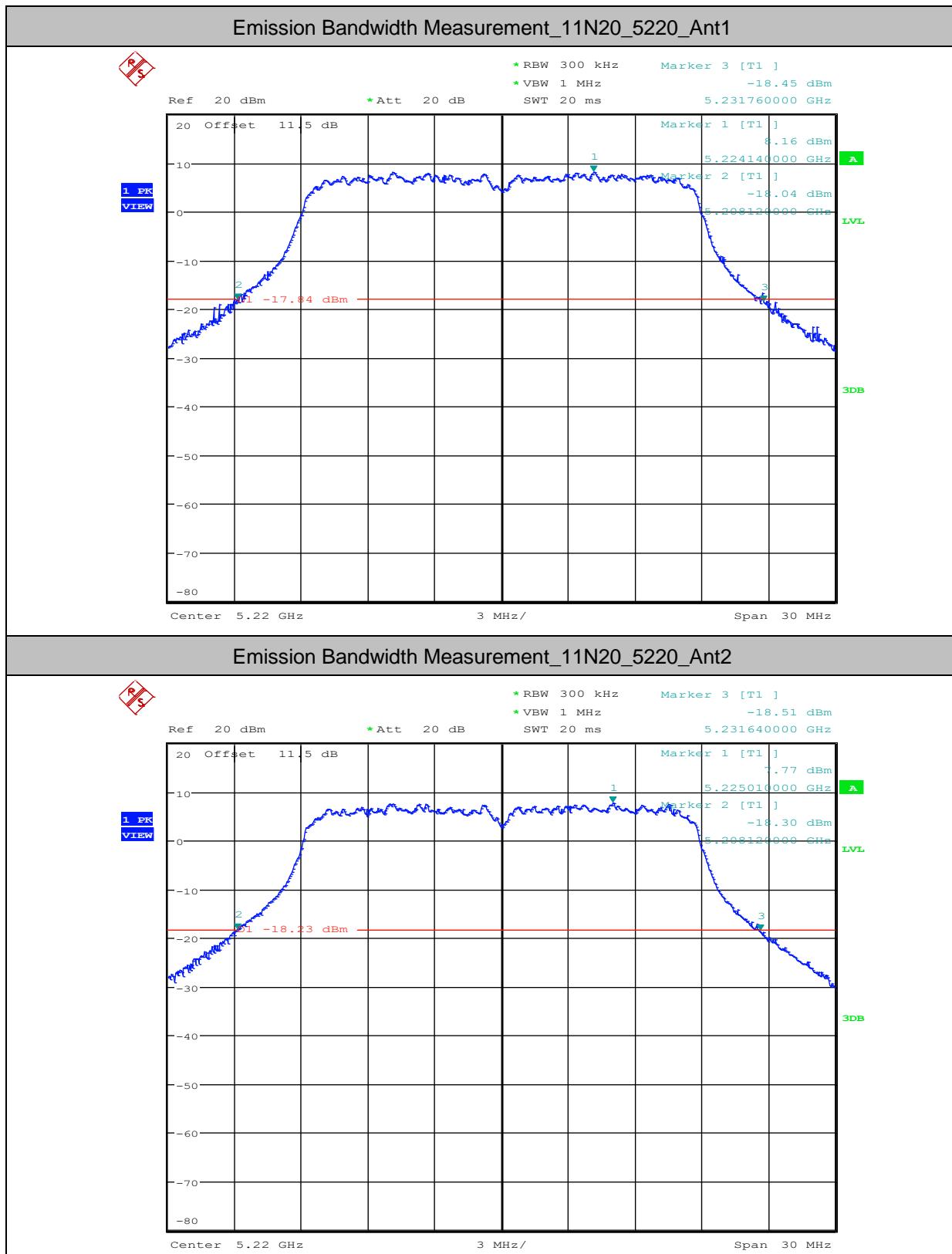
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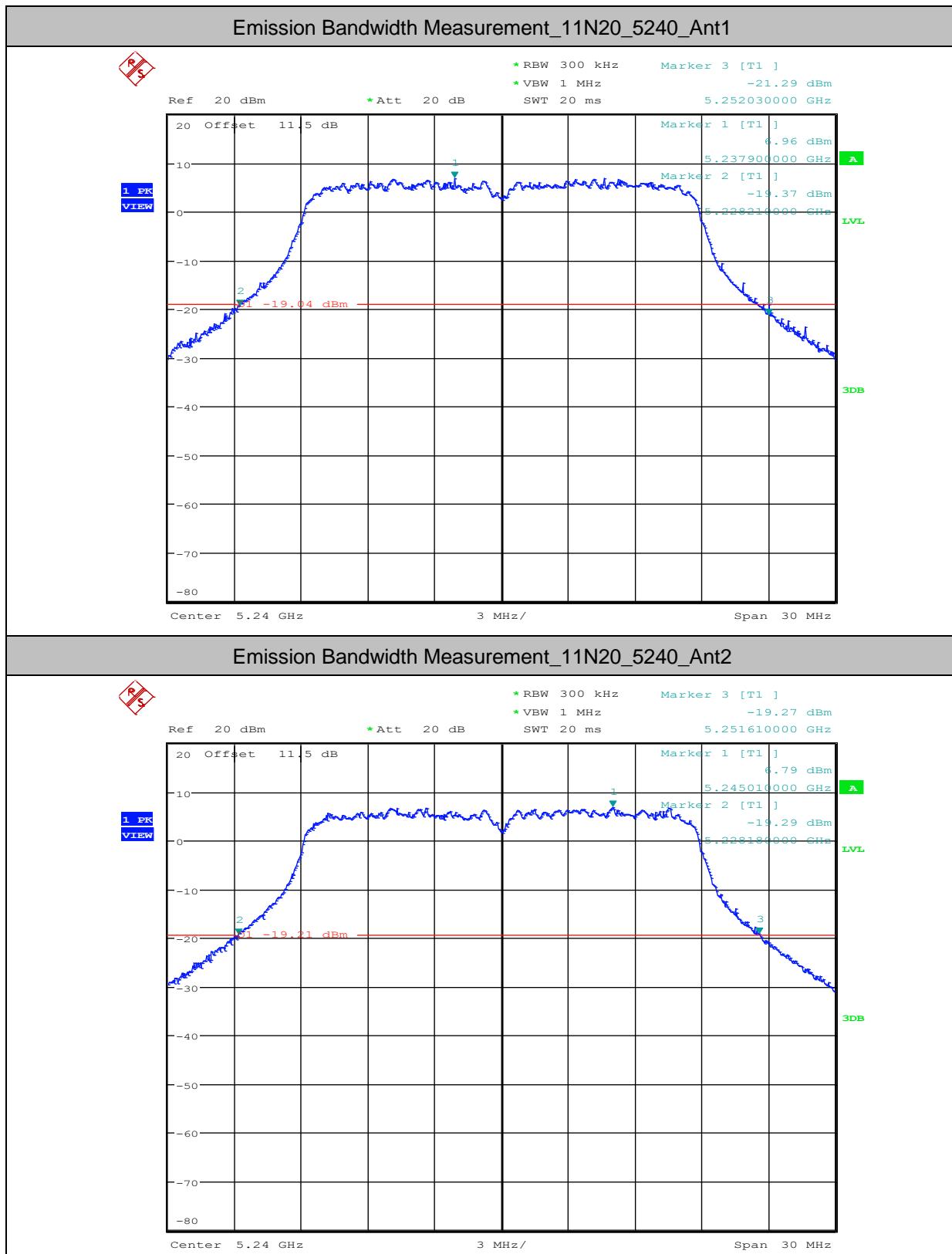
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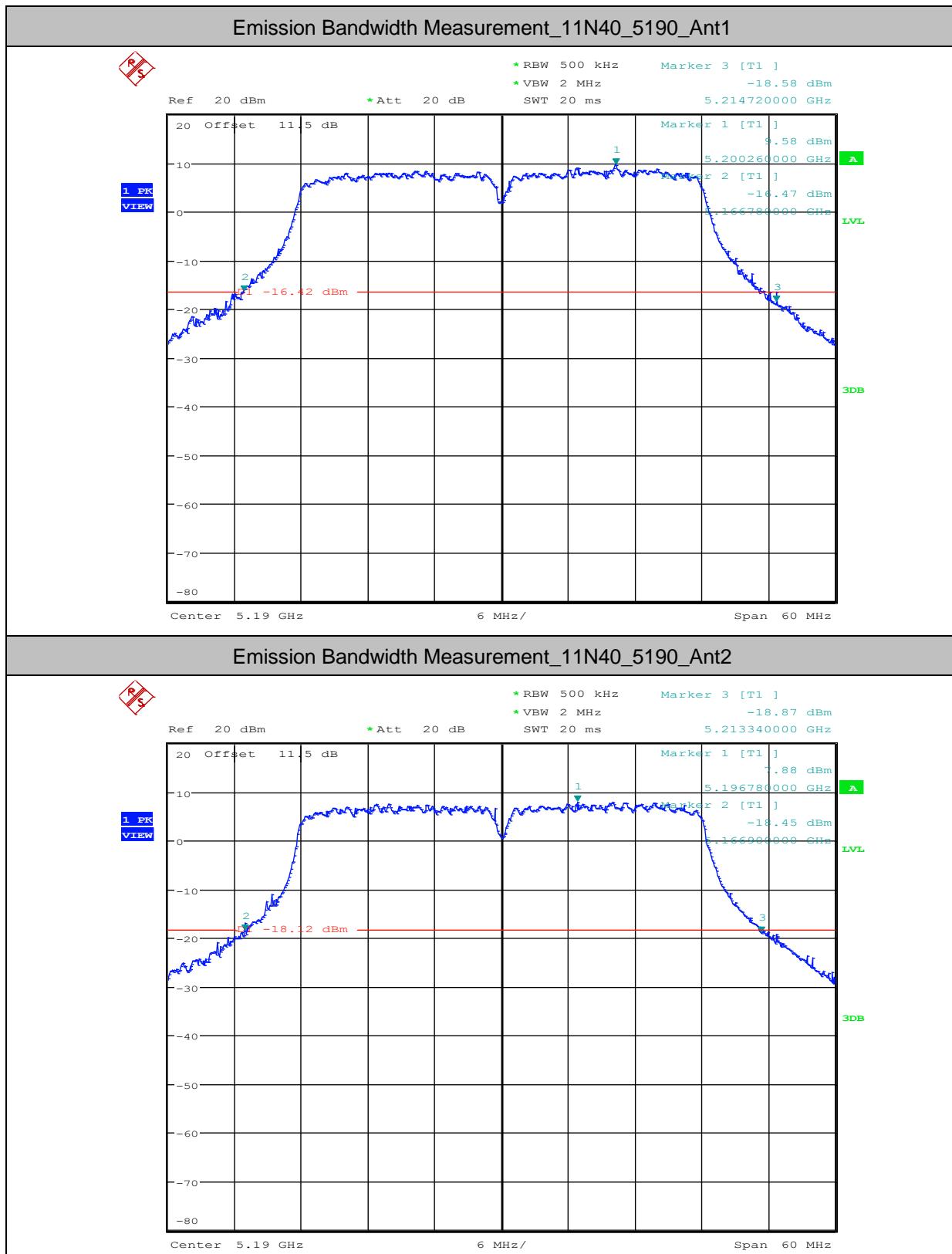
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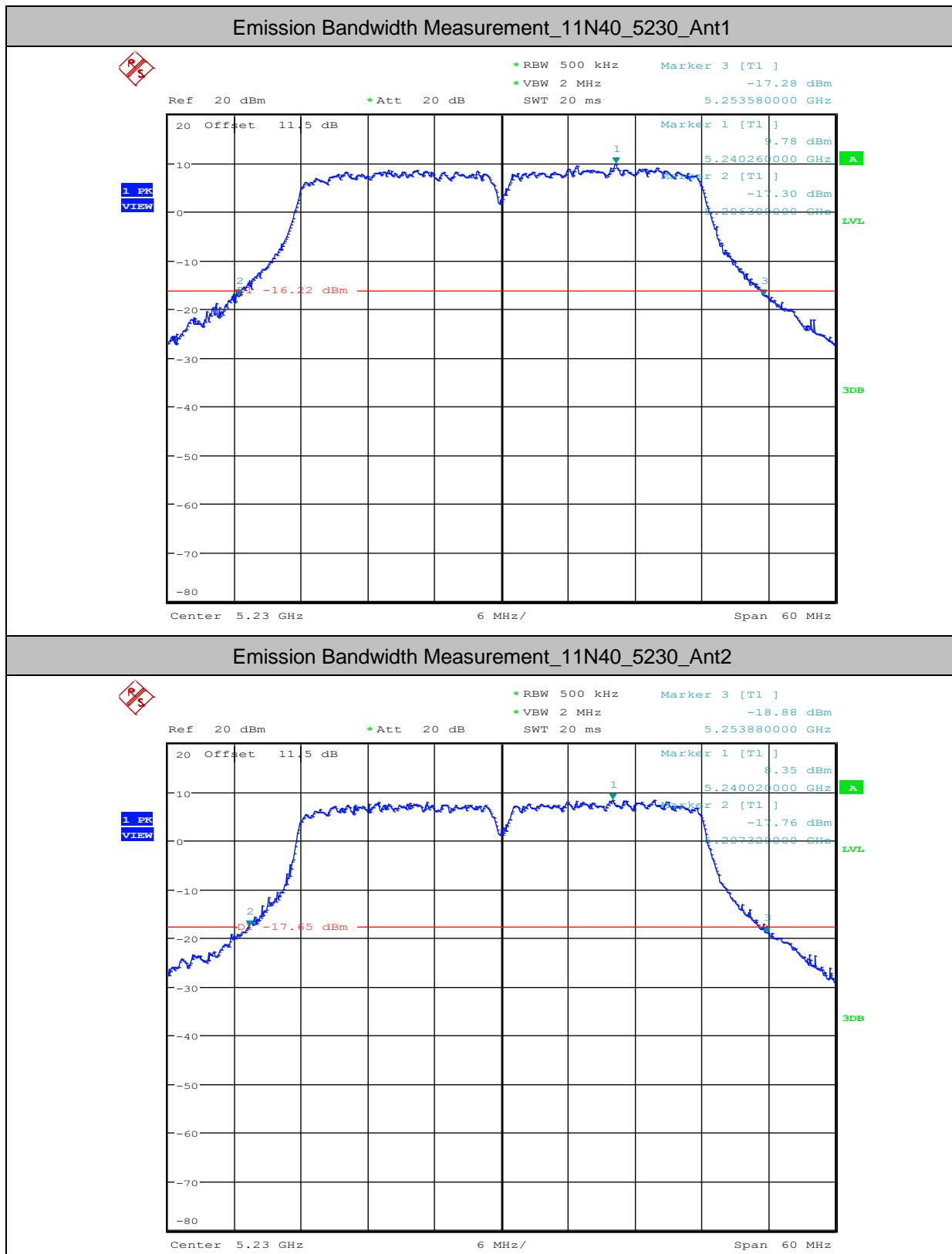
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2. Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant1	16.920	---	PASS
11A	5180	Ant2	16.650	---	PASS
11A	5220	Ant1	16.920	---	PASS
11A	5220	Ant2	16.680	---	PASS
11A	5240	Ant1	16.920	---	PASS
11A	5240	Ant2	16.680	---	PASS
11N20	5180	Ant1	17.970	---	PASS
11N20	5180	Ant2	17.910	---	PASS
11N20	5220	Ant1	17.970	---	PASS
11N20	5220	Ant2	17.880	---	PASS
11N20	5240	Ant1	17.970	---	PASS
11N20	5240	Ant2	17.880	---	PASS
11N40	5190	Ant1	36.900	---	PASS
11N40	5190	Ant2	36.540	---	PASS
11N40	5230	Ant1	36.900	---	PASS
11N40	5230	Ant2	36.600	---	PASS

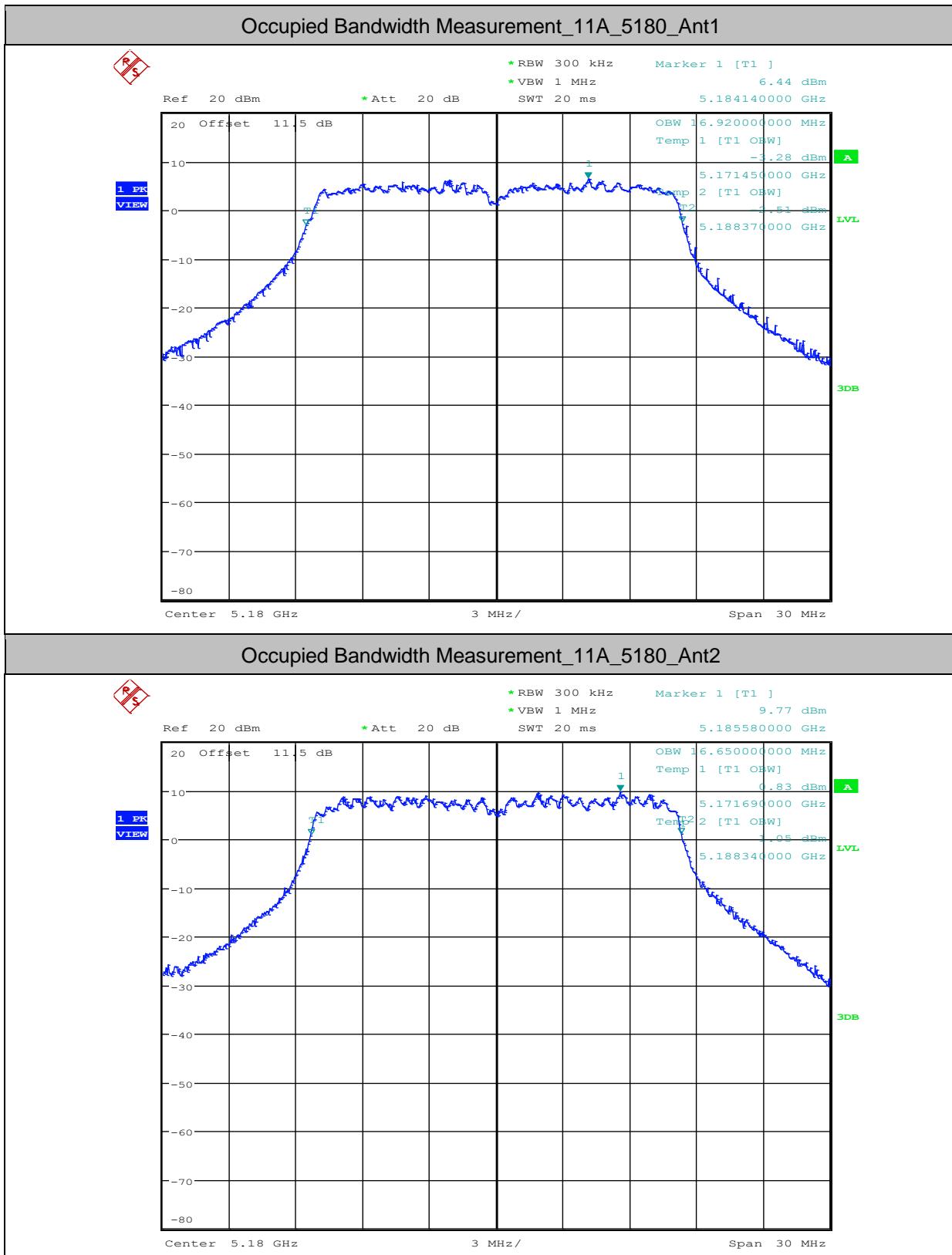
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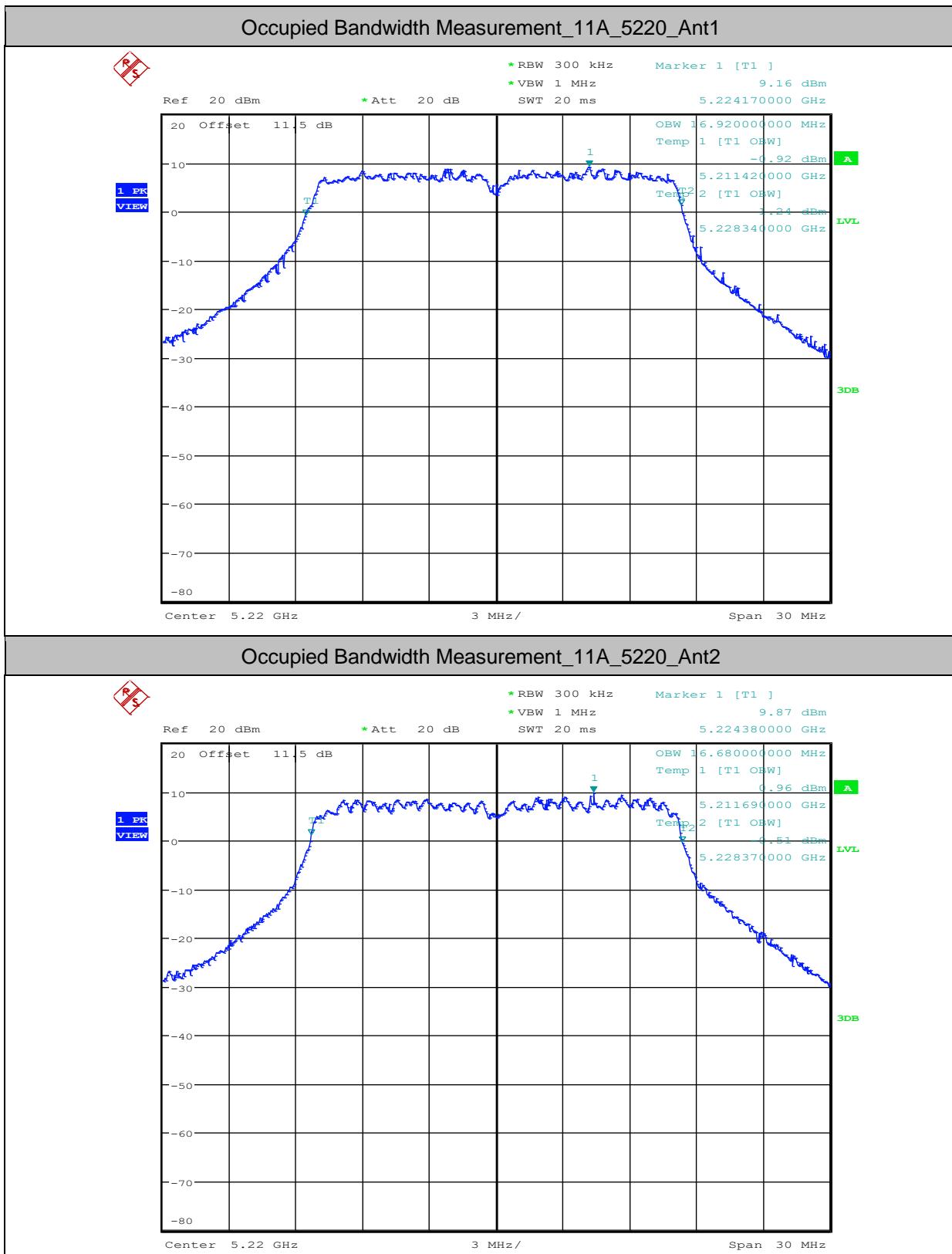
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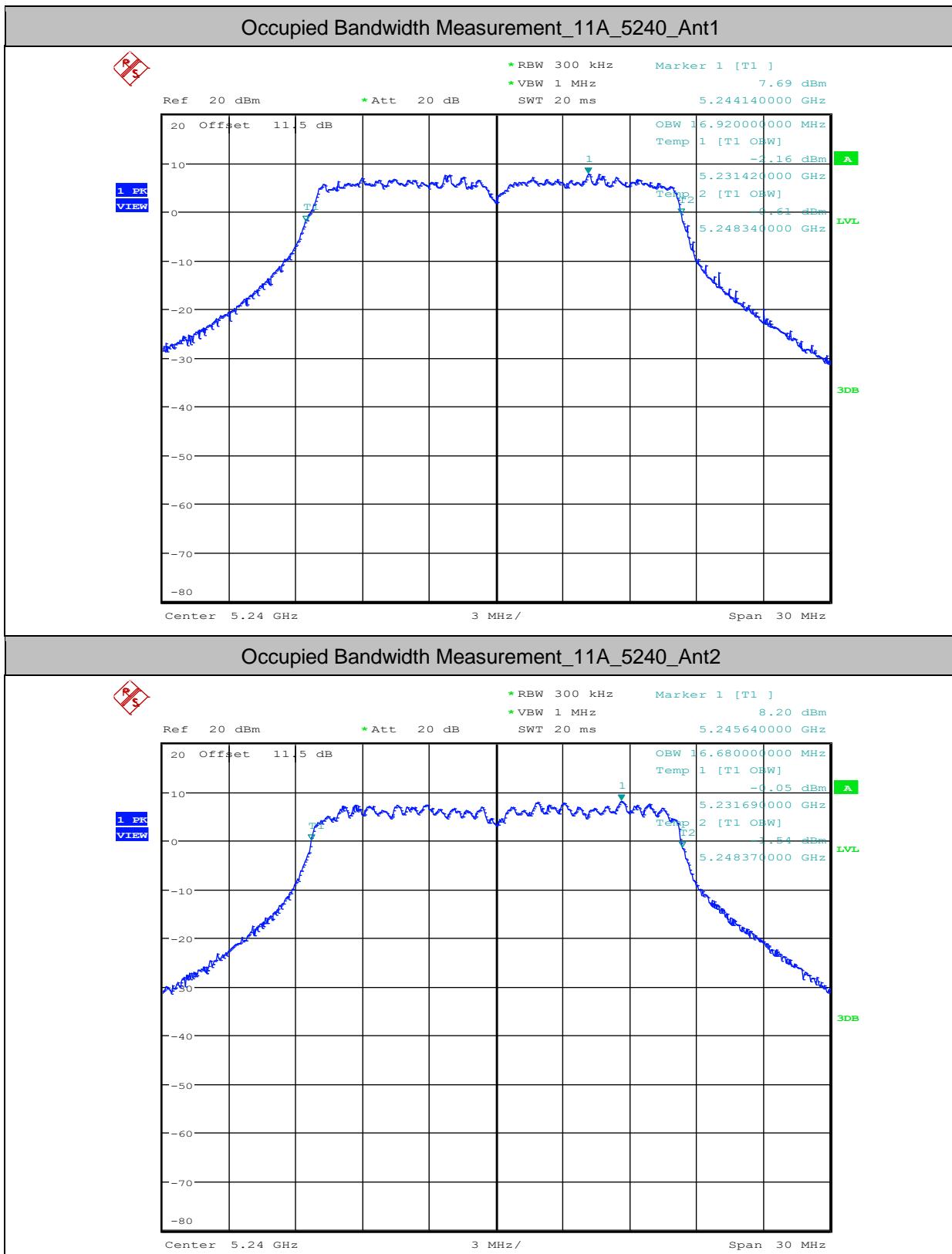
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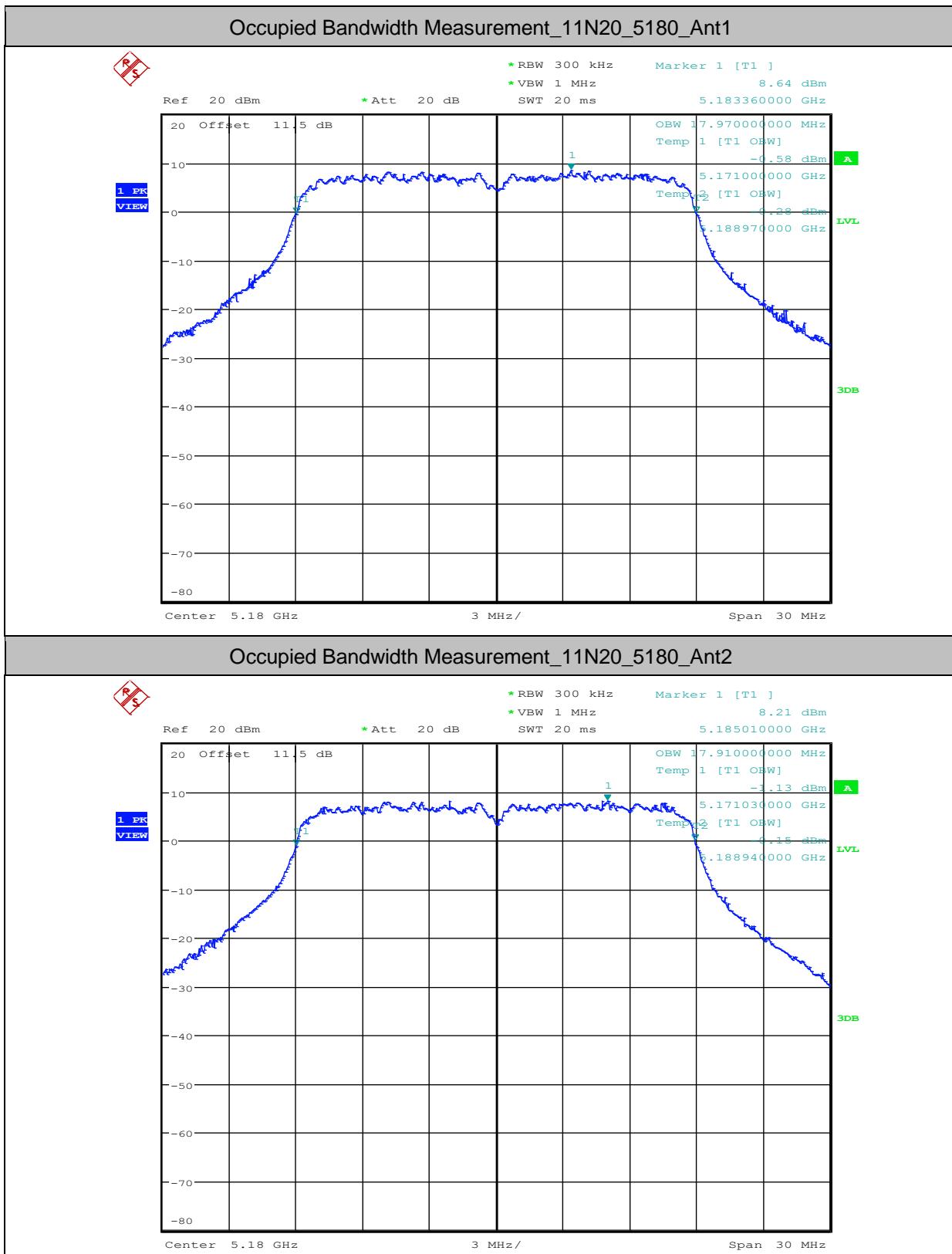
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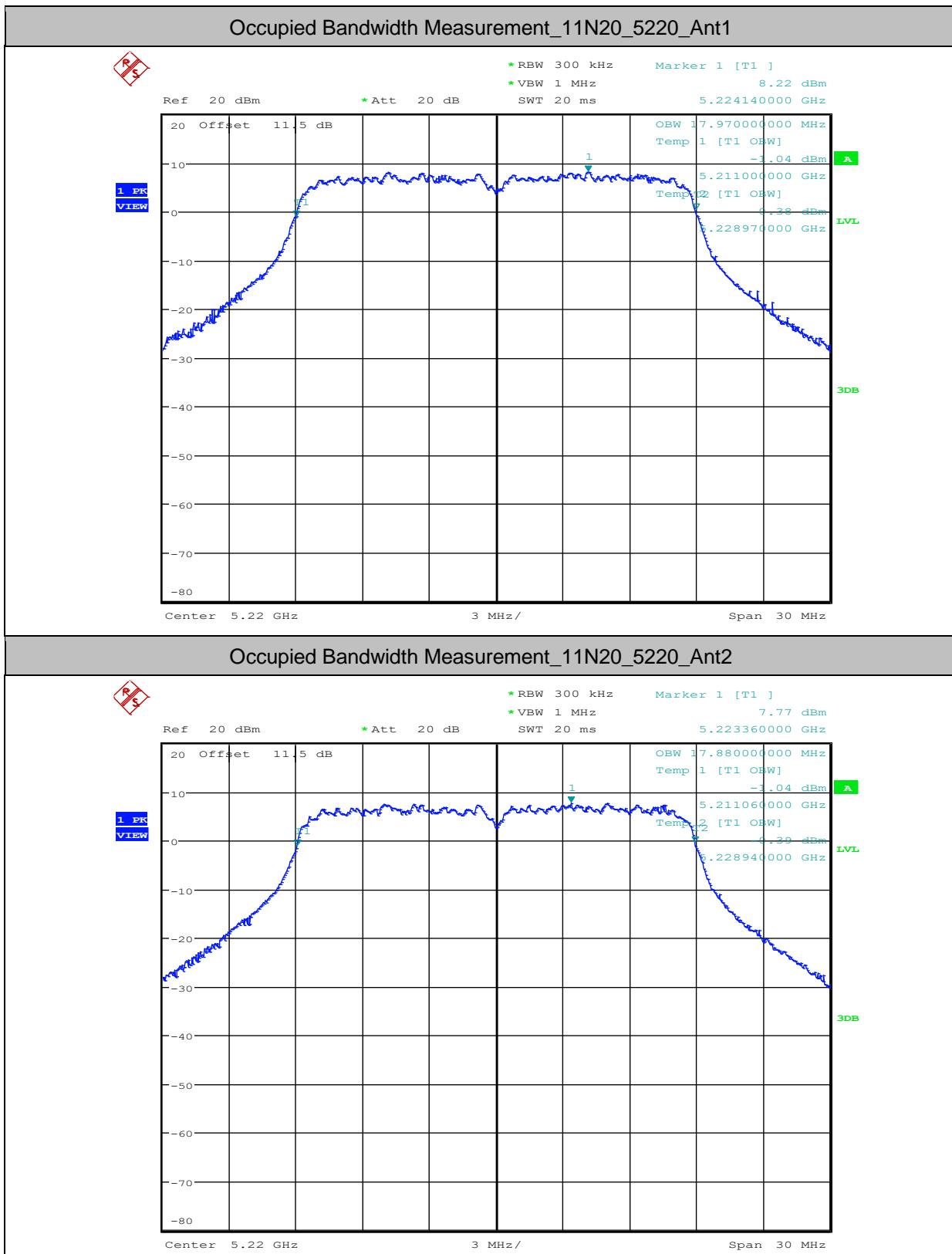
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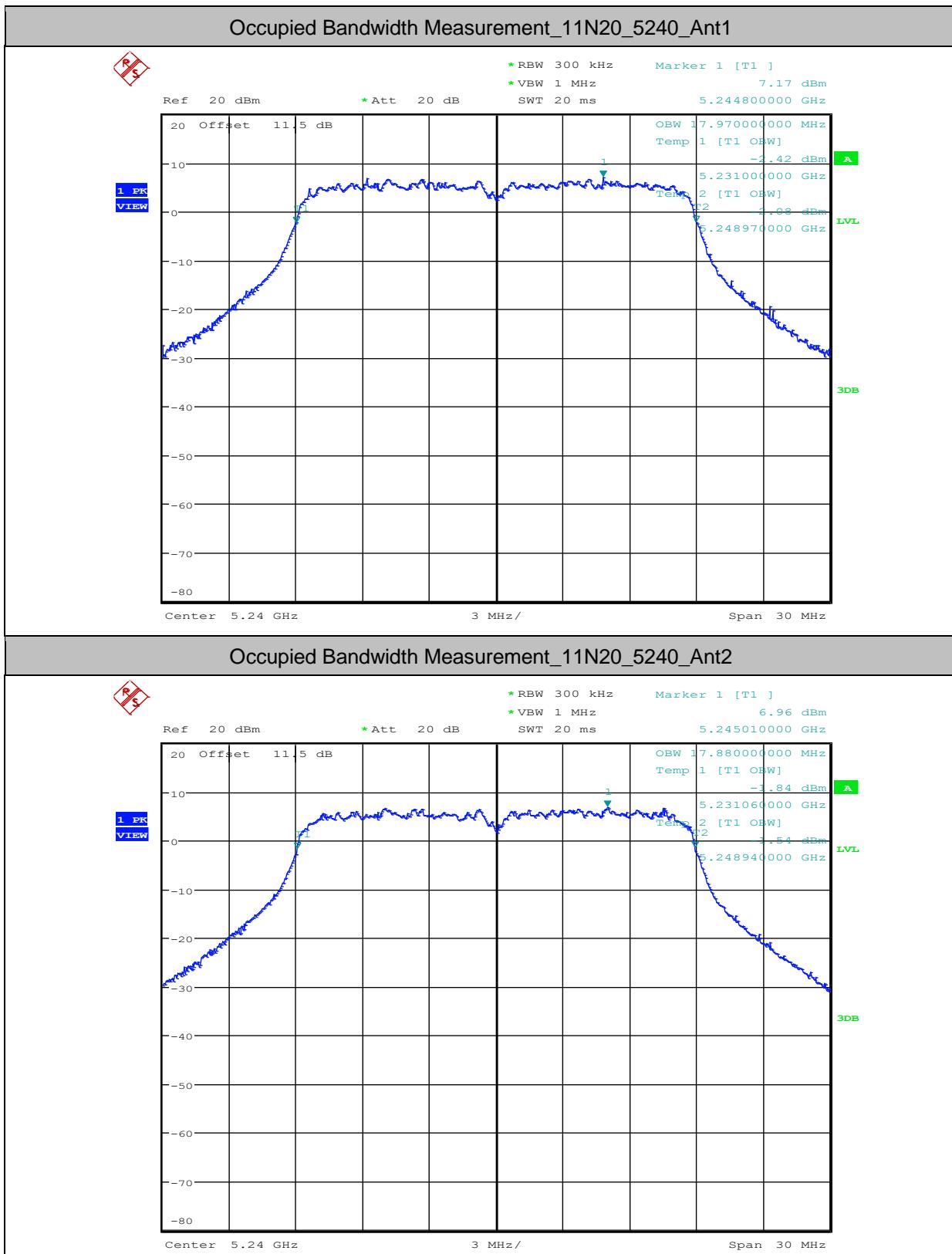


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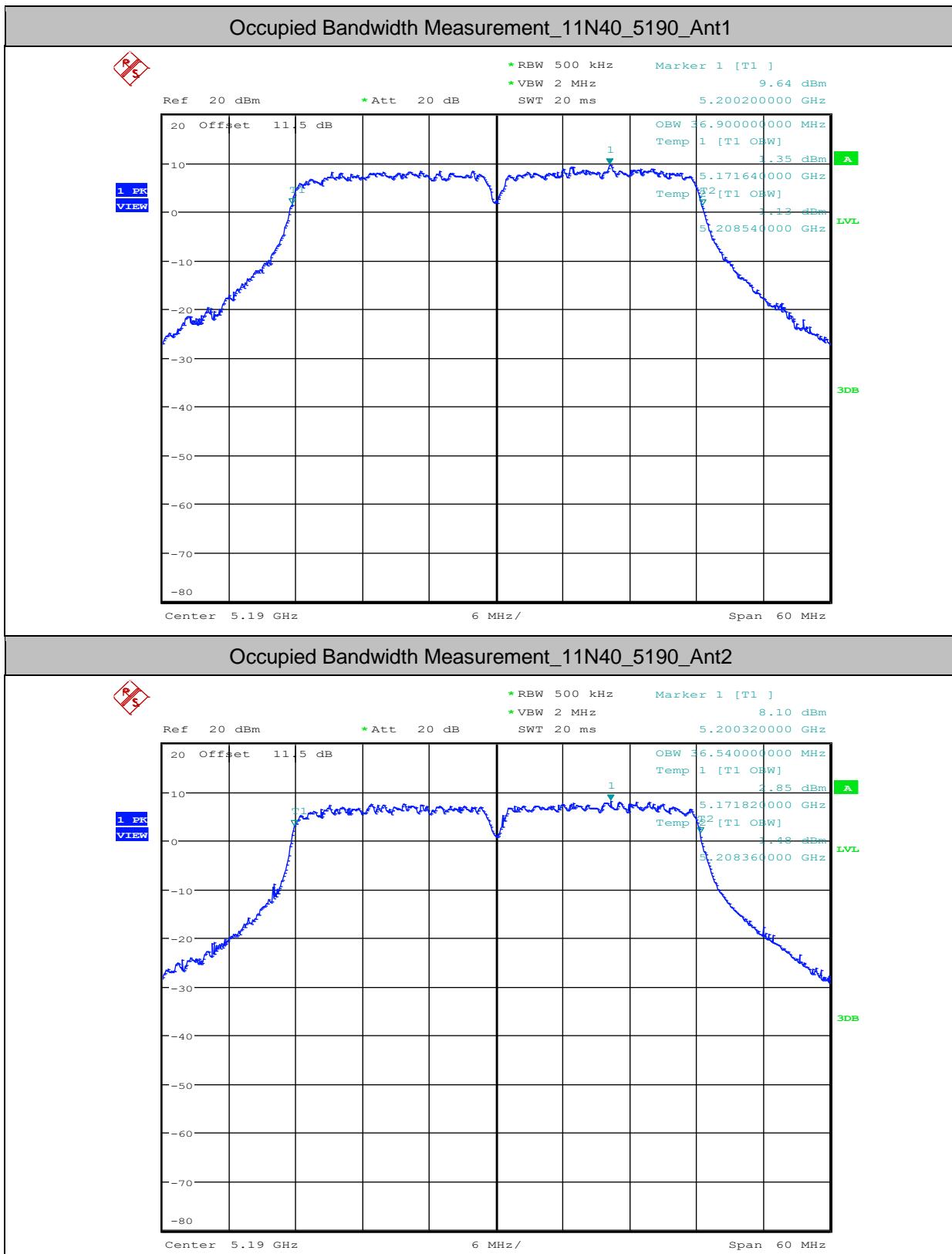
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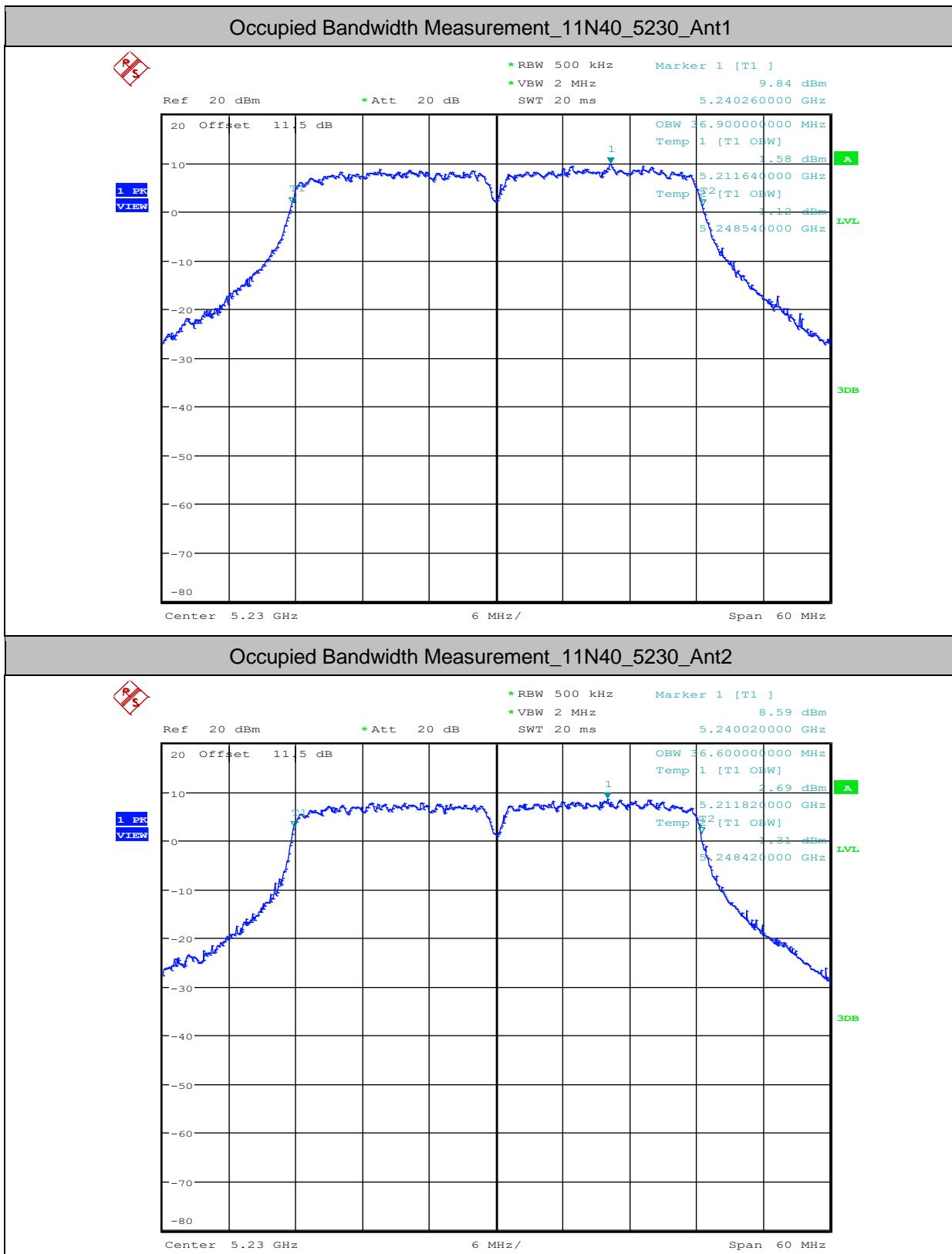
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3. Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	5180	Ant1	17.64	0.09	17.73	<23.98	PASS
11A	5180	Ant2	17.32	0.09	17.41	<23.98	PASS
11A	5220	Ant1	17.2	0.09	17.29	<23.98	PASS
11A	5220	Ant2	16.83	0.09	16.92	<23.98	PASS
11A	5240	Ant1	16.1	0.09	16.19	<23.98	PASS
11A	5240	Ant2	15.9	0.09	15.99	<23.98	PASS
11N20	5180	Ant1	17.37	0.1	17.47	<23.98	PASS
11N20	5180	Ant2	16.97	0.1	17.07	<23.98	PASS
11N20	5220	Ant1	17.18	0.1	17.28	<23.98	PASS
11N20	5220	Ant2	16.5	0.11	16.61	<23.98	PASS
11N20	5240	Ant1	15.79	0.1	15.89	<23.98	PASS
11N20	5240	Ant2	15.63	0.1	15.73	<23.98	PASS
11N40	5190	Ant1	18.8	0.19	18.99	<23.98	PASS
11N40	5190	Ant2	17.7	0.18	17.88	<23.98	PASS
11N40	5230	Ant1	18.97	0.18	19.15	<23.98	PASS
11N40	5230	Ant2	18.06	0.18	18.24	<23.98	PASS

Test Mode	Test Channel	Ant	Power [dBm]	Limit [dBm]	Verdict
11A	5180	Ant1+Ant 2	20.58	<22.97	PASS
11A	5220	Ant1+Ant 2	20.12	<22.97	PASS
11A	5240	Ant1+Ant 2	19.10	<22.97	PASS
11N20	5180	Ant1+Ant 2	20.28	<22.97	PASS
11N20	5220	Ant1+Ant 2	19.97	<22.97	PASS
11N20	5240	Ant1+Ant 2	18.82	<22.97	PASS
11N40	5190	Ant1+Ant 2	21.48	<22.97	PASS
11N40	5230	Ant1+Ant 2	21.73	<22.97	PASS

Remark: power limit for MIMO is $23.98 - (4 + 10 \cdot \log(2) - 6) = 23.98 - 1.01 \text{ dBm} = 22.97 \text{ dBm}$ SGS-CSTC Standards Technical Services Co., Ltd.
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4. Maximum Power Spectral Density

Test Mode	Test Channel	Ant	Level [dBm/MHz]	10log(1/x) Factor [dB]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	5180	Ant1	6.75	0.09	6.84	<11.00	PASS
11A	5180	Ant2	6.67	0.09	6.76	<11.00	PASS
11A	5220	Ant1	6.54	0.09	6.63	<11.00	PASS
11A	5220	Ant2	6.45	0.09	6.54	<11.00	PASS
11A	5240	Ant1	5.38	0.09	5.47	<11.00	PASS
11A	5240	Ant2	5.64	0.09	5.73	<11.00	PASS
11N20	5180	Ant1	6.62	0.1	6.72	<11.00	PASS
11N20	5180	Ant2	6.36	0.1	6.46	<11.00	PASS
11N20	5220	Ant1	6.48	0.1	6.58	<11.00	PASS
11N20	5220	Ant2	5.71	0.11	5.82	<11.00	PASS
11N20	5240	Ant1	5.01	0.1	5.11	<11.00	PASS
11N20	5240	Ant2	4.94	0.1	5.04	<11.00	PASS
11N40	5190	Ant1	5.36	0.19	5.55	<11.00	PASS
11N40	5190	Ant2	3.99	0.18	4.17	<11.00	PASS
11N40	5230	Ant1	5.52	0.18	5.7	<11.00	PASS
11N40	5230	Ant2	4.47	0.18	4.65	<11.00	PASS

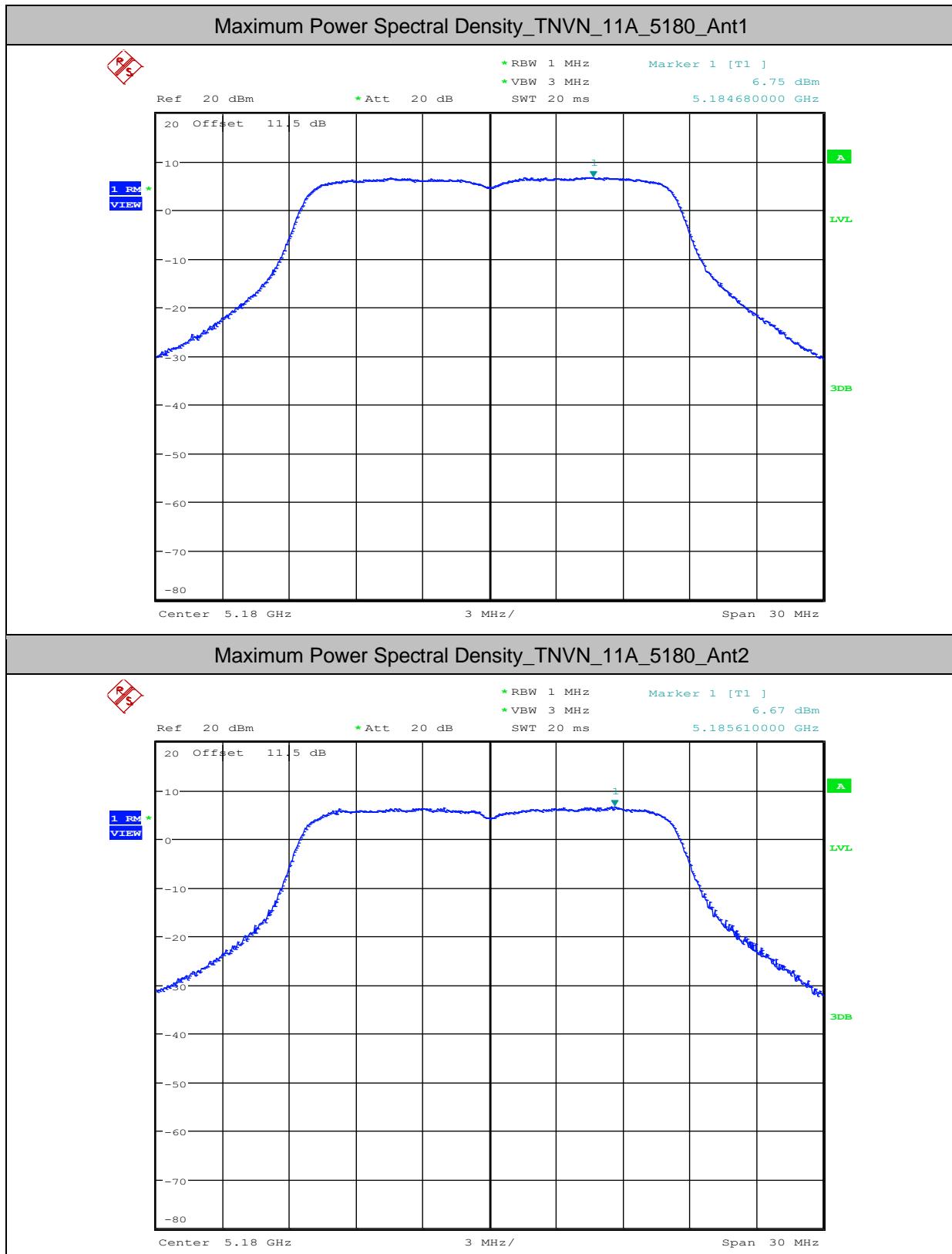
Test Mode	Test Channel	Ant	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	5180	Ant1+Ant2	9.81	<9.99	PASS
11A	5220	Ant1+Ant2	9.60	<9.99	PASS
11A	5240	Ant1+Ant2	8.61	<9.99	PASS
11N20	5180	Ant1+Ant2	9.60	<9.99	PASS
11N20	5220	Ant1+Ant2	9.23	<9.99	PASS
11N20	5240	Ant1+Ant2	8.09	<9.99	PASS
11N40	5190	Ant1+Ant2	7.92	<9.99	PASS
11N40	5230	Ant1+Ant2	8.22	<9.99	PASS

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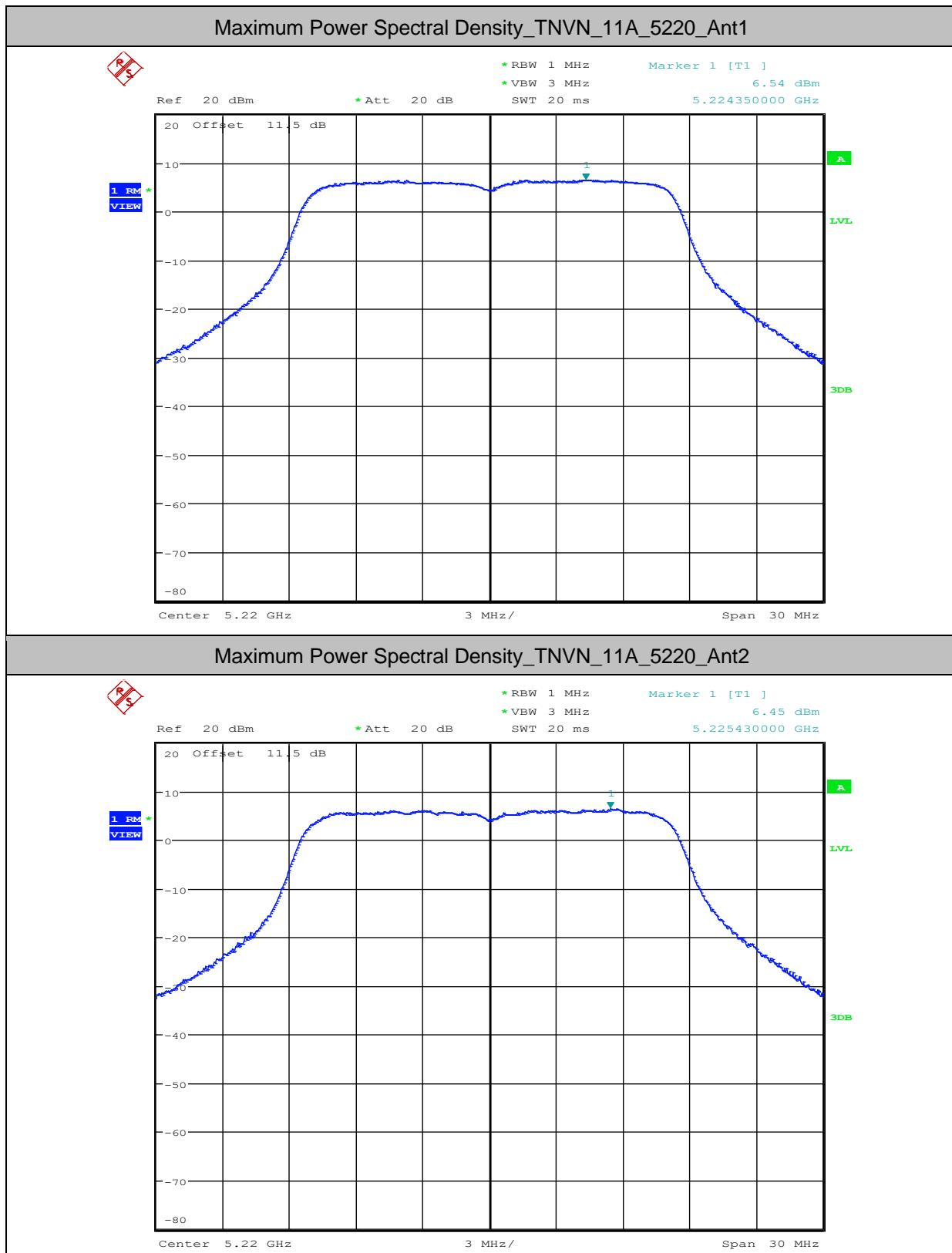


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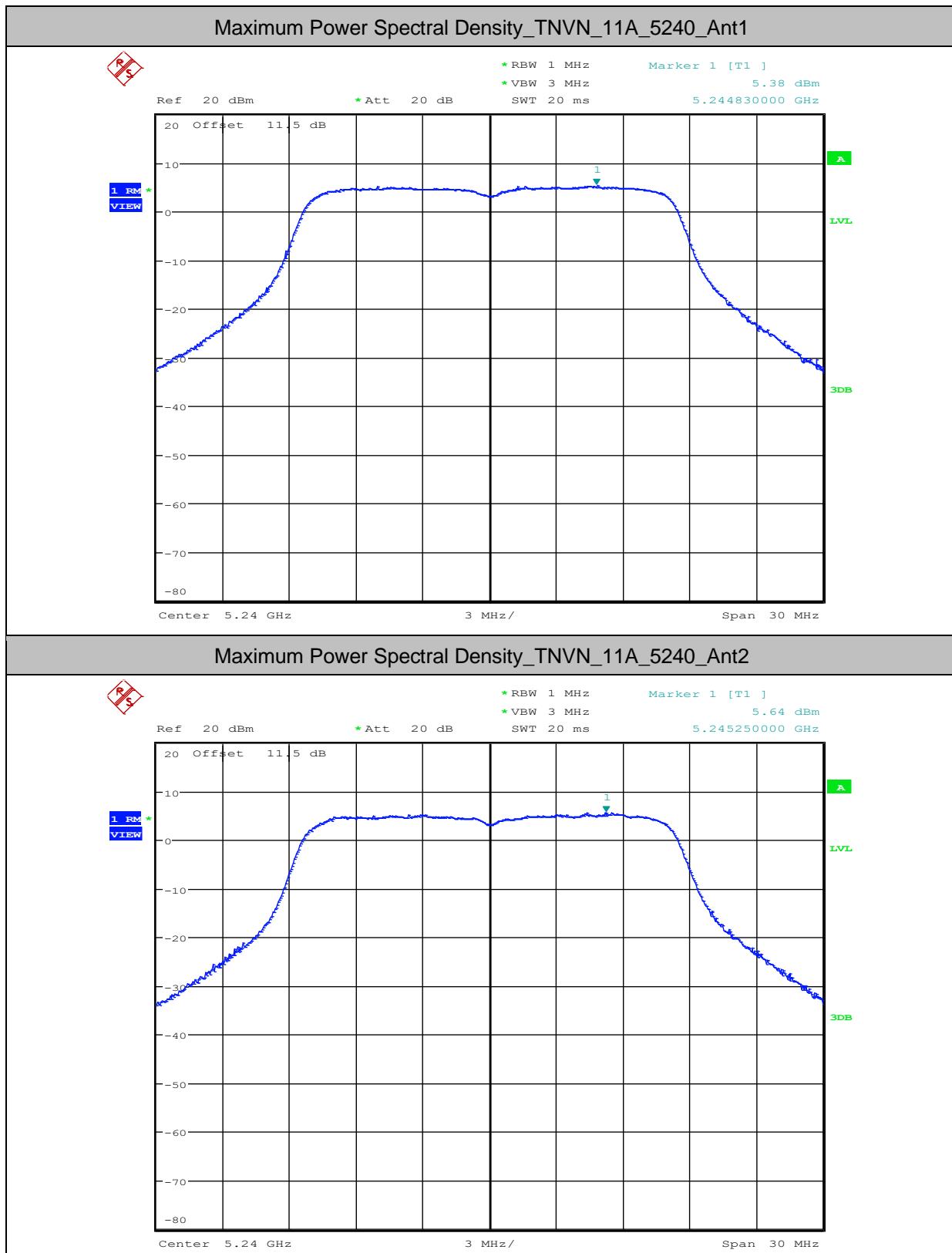
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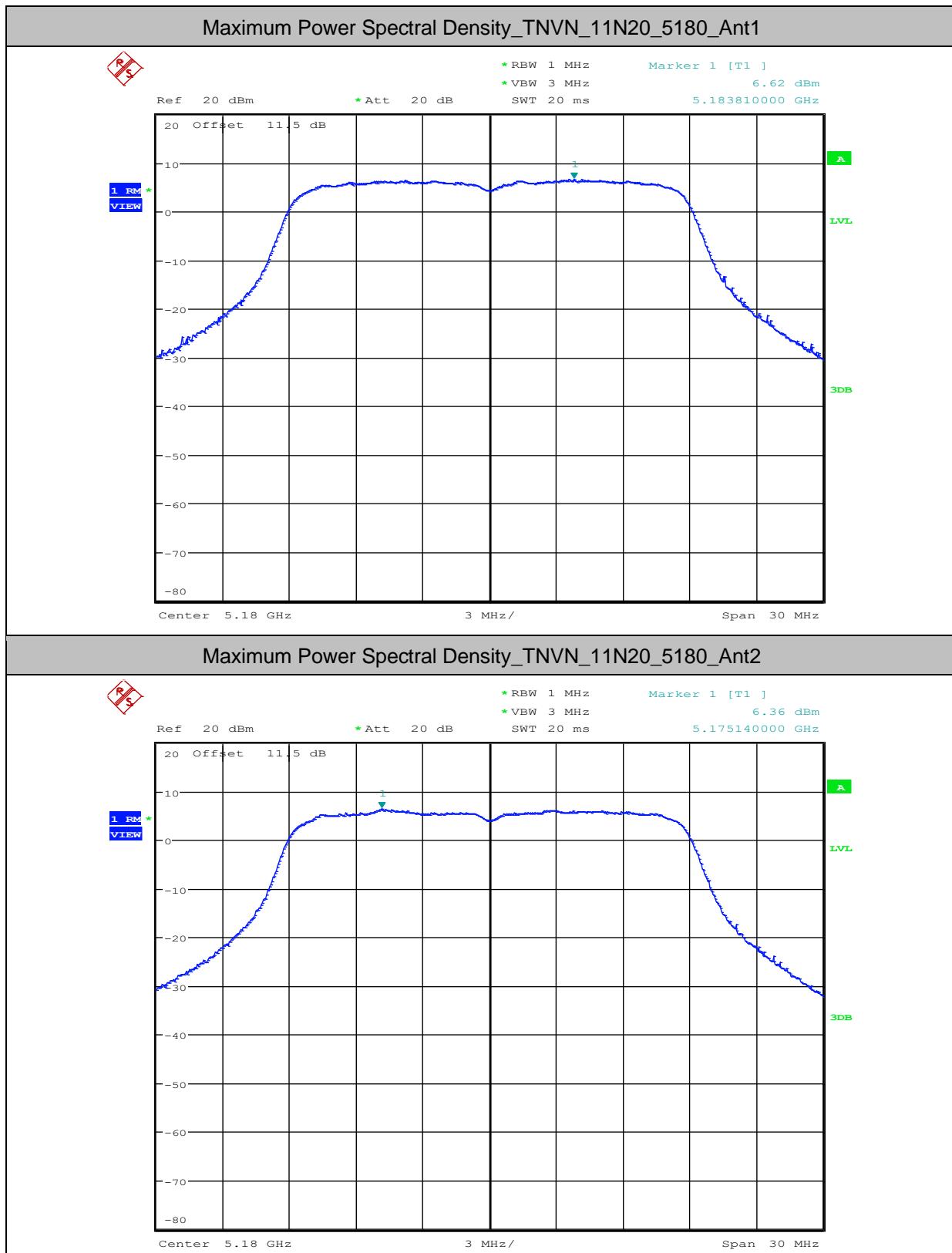
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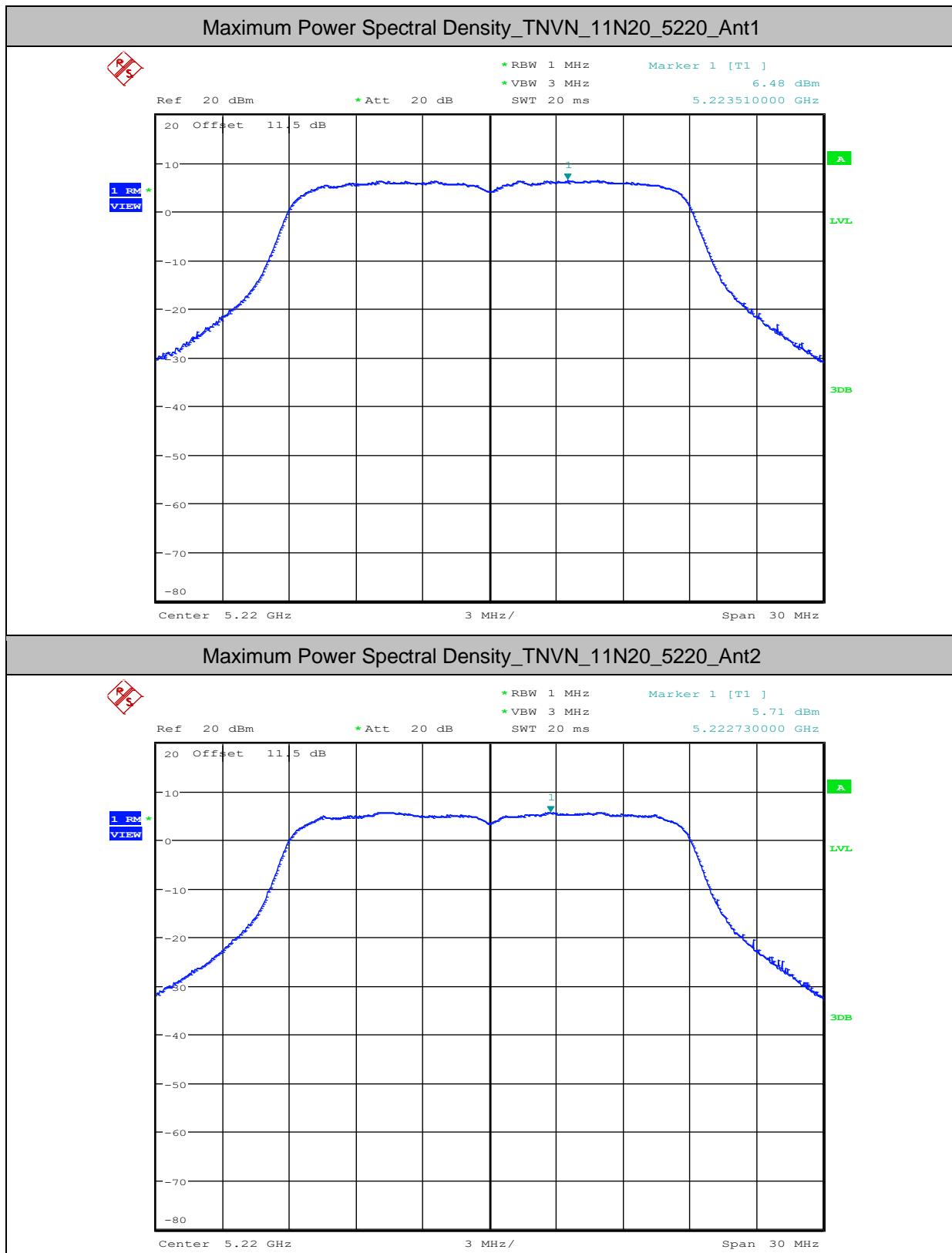
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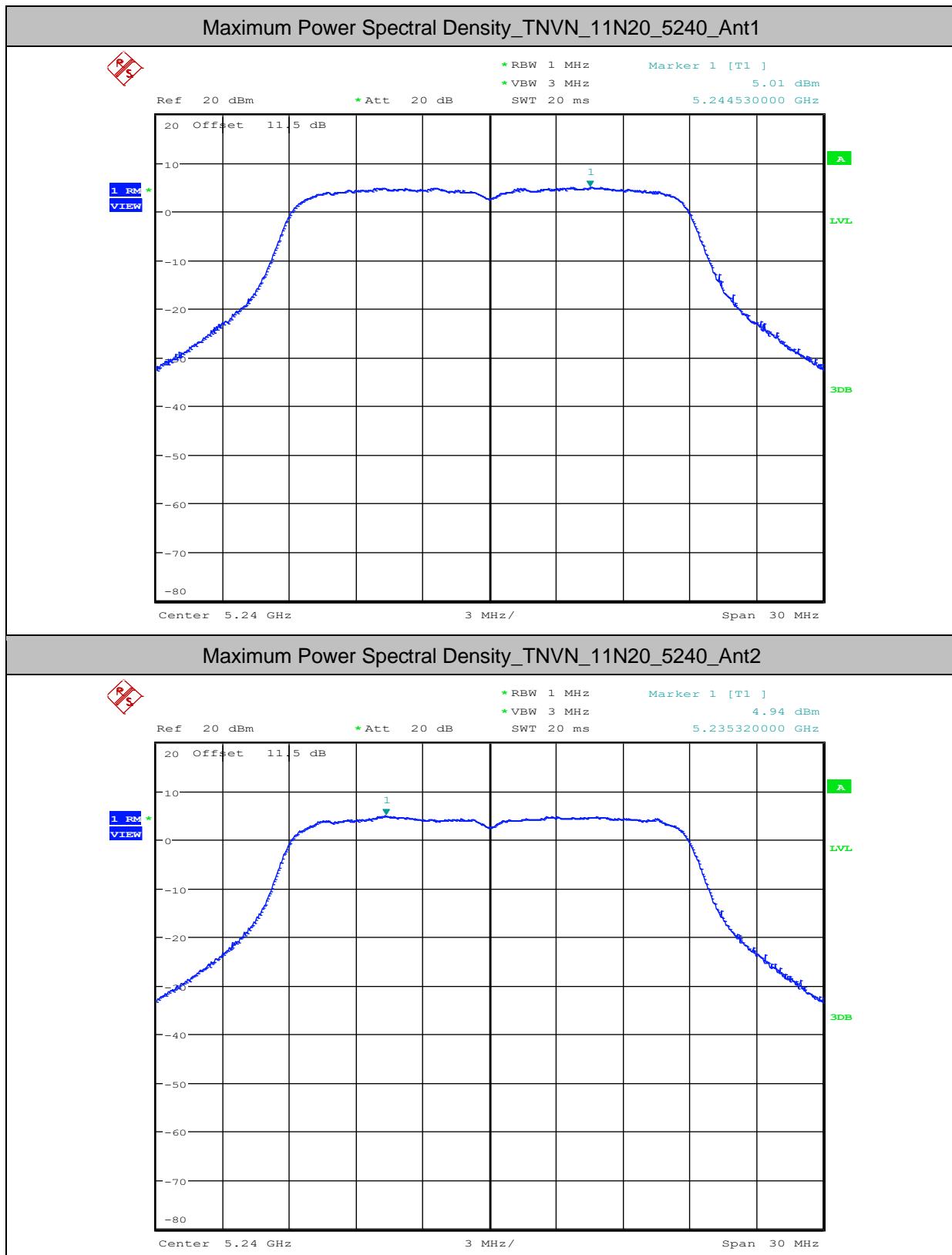
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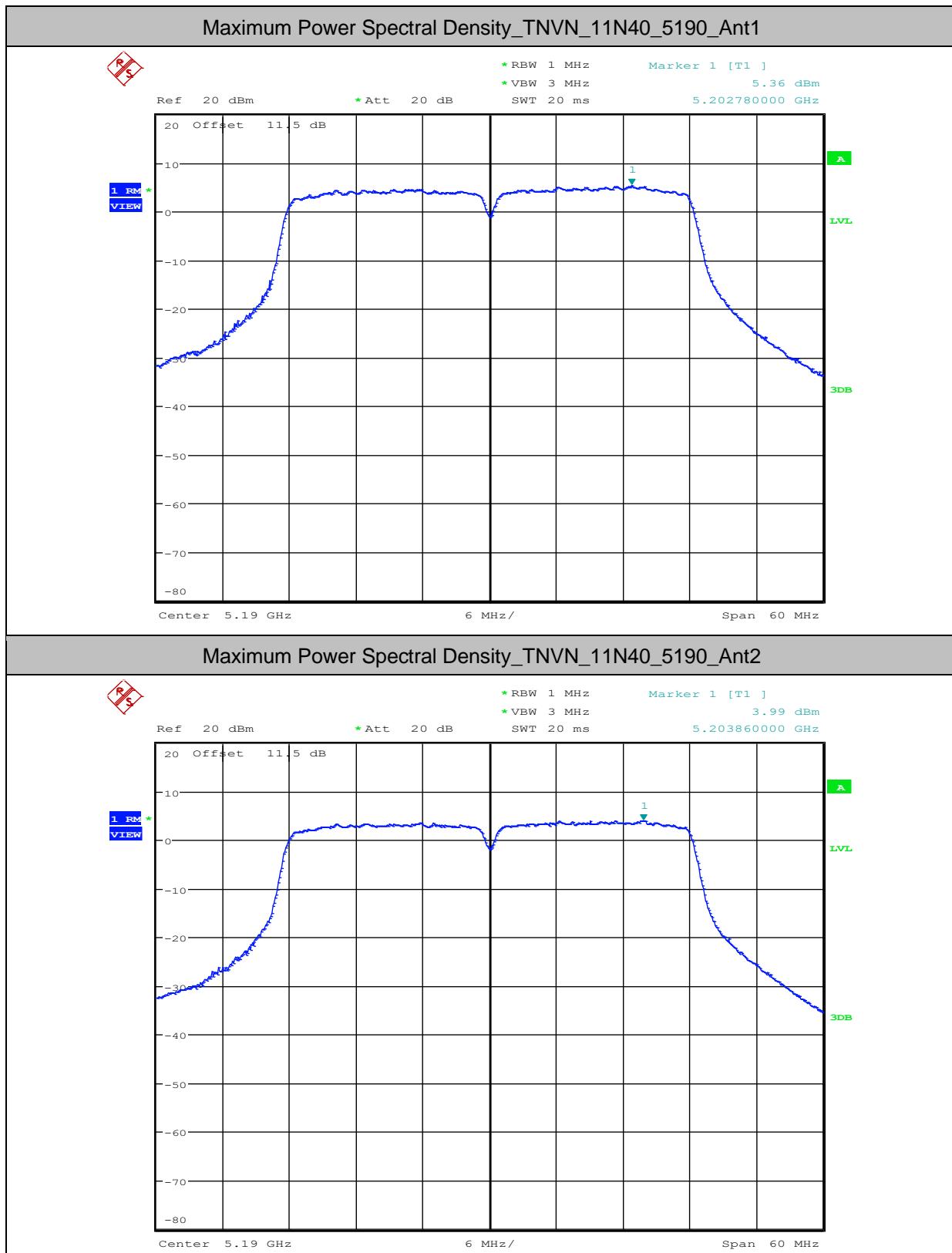
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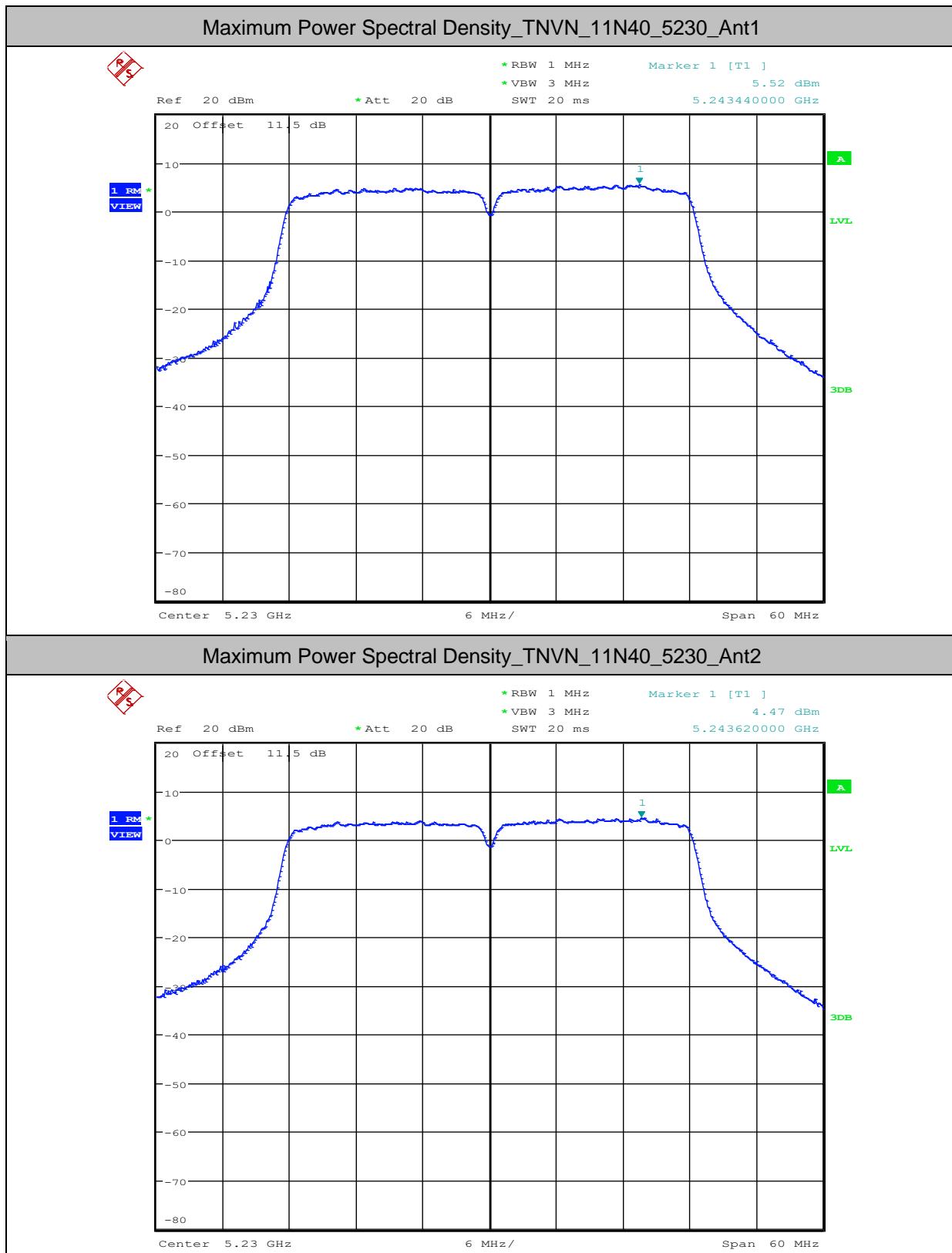
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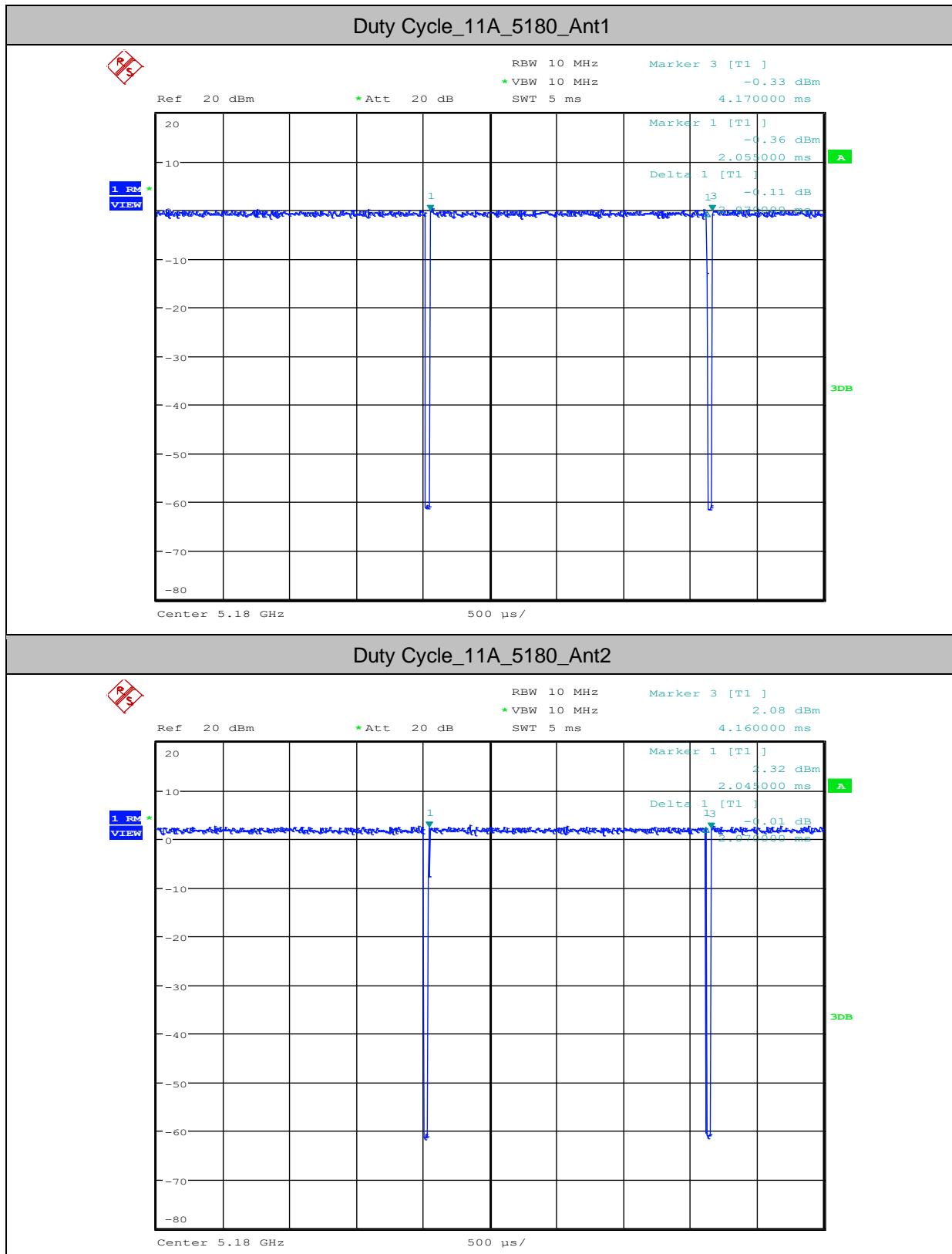
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5.Duty Cycle (x)

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	5180	Ant1	97.87	0.09
11A	5180	Ant2	97.87	0.09
11A	5220	Ant1	97.87	0.09
11A	5220	Ant2	97.87	0.09
11A	5240	Ant1	97.87	0.09
11A	5240	Ant2	97.87	0.09
11N20	5180	Ant1	97.71	0.1
11N20	5180	Ant2	97.72	0.1
11N20	5220	Ant1	97.72	0.1
11N20	5220	Ant2	97.46	0.11
11N20	5240	Ant1	97.72	0.1
11N20	5240	Ant2	97.71	0.1
11N40	5190	Ant1	95.72	0.19
11N40	5190	Ant2	96.01	0.18
11N40	5230	Ant1	96.01	0.18
11N40	5230	Ant2	96.01	0.18

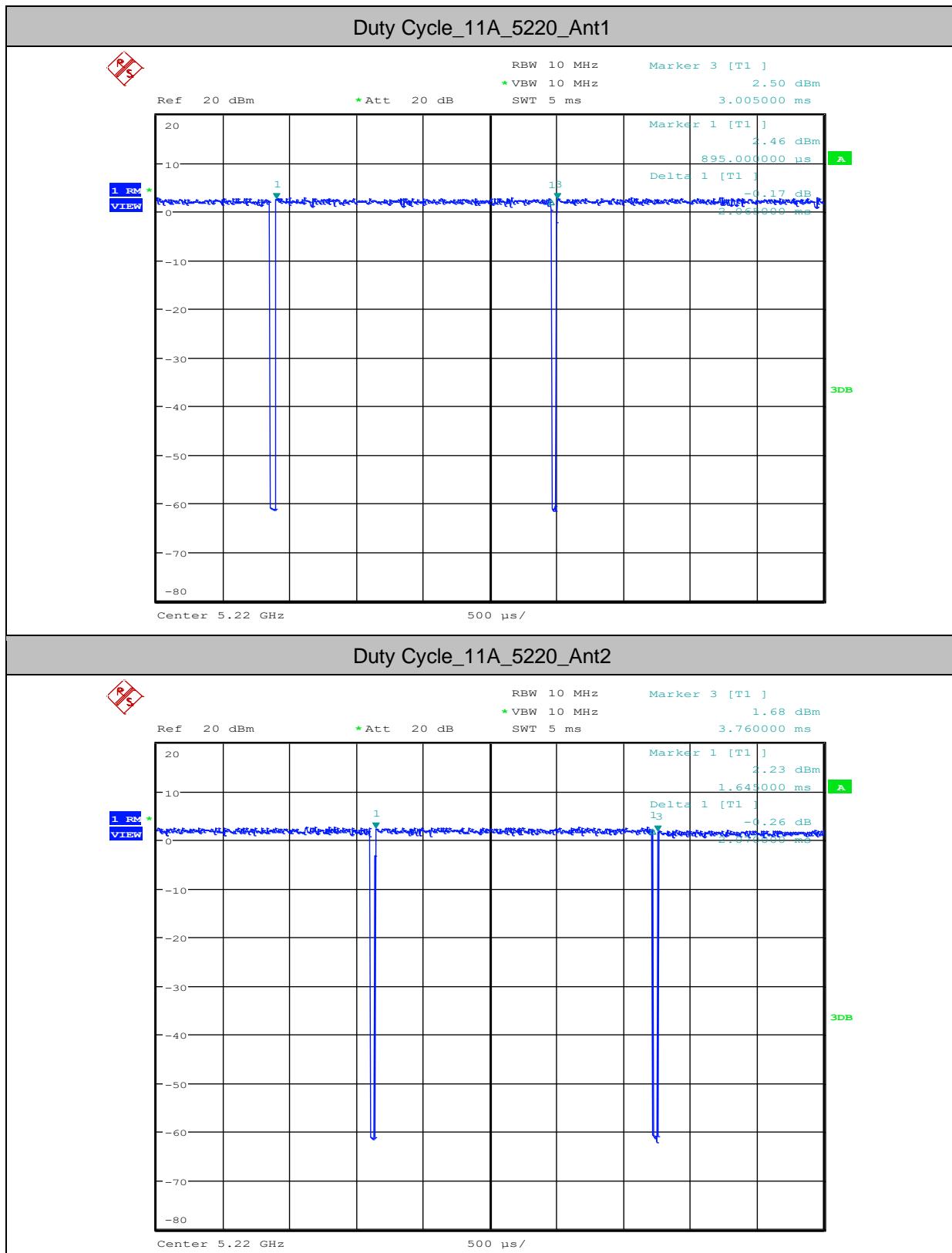
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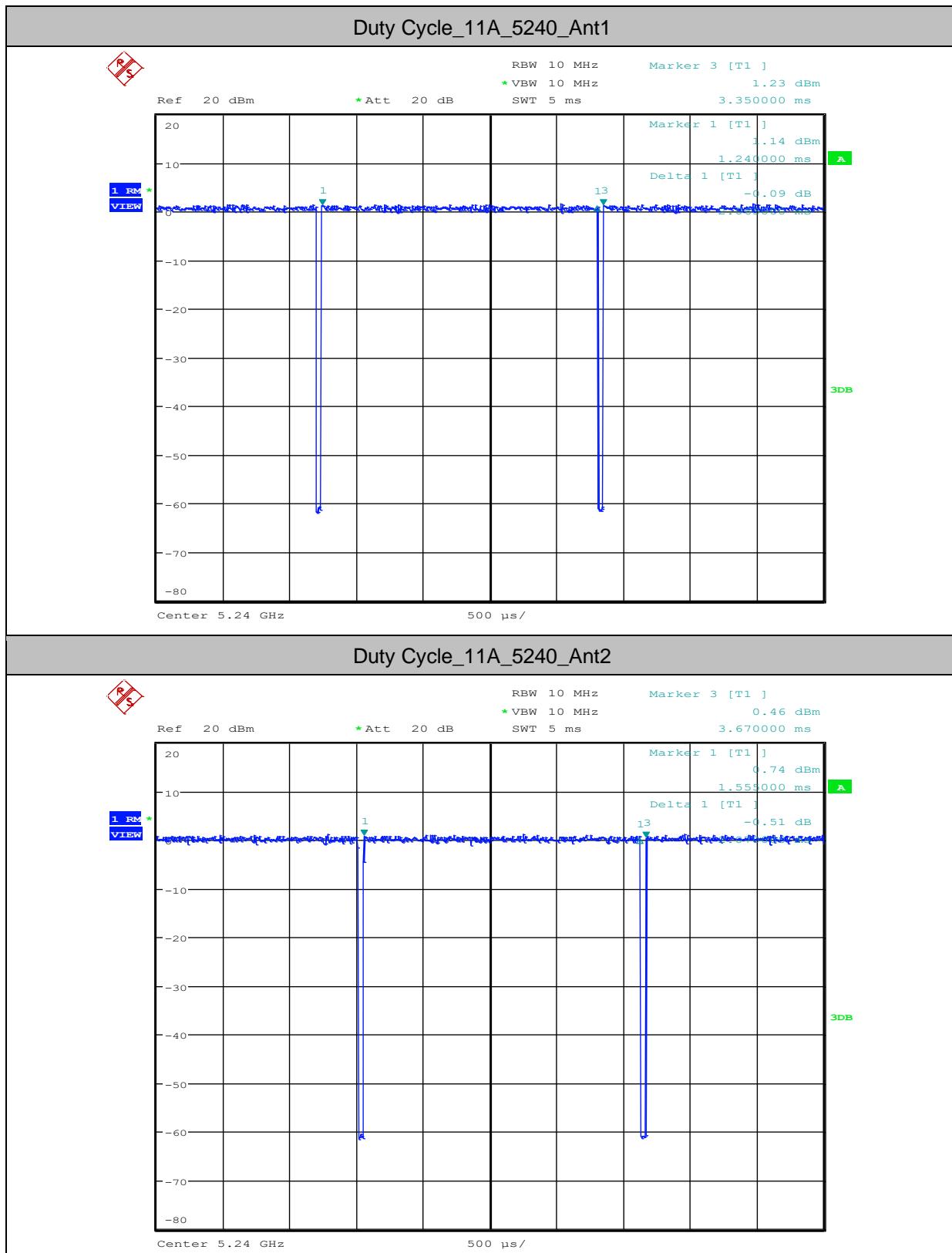
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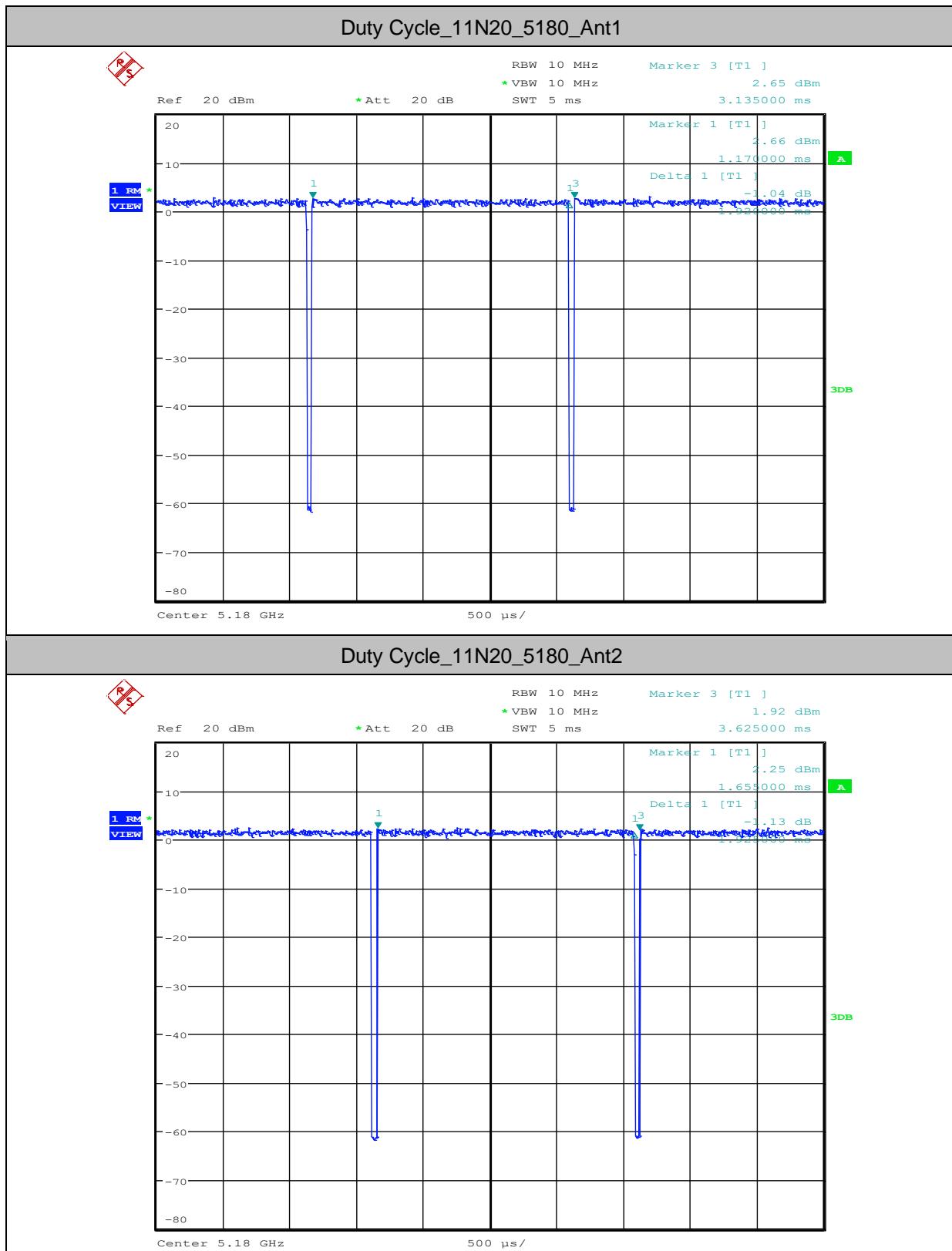
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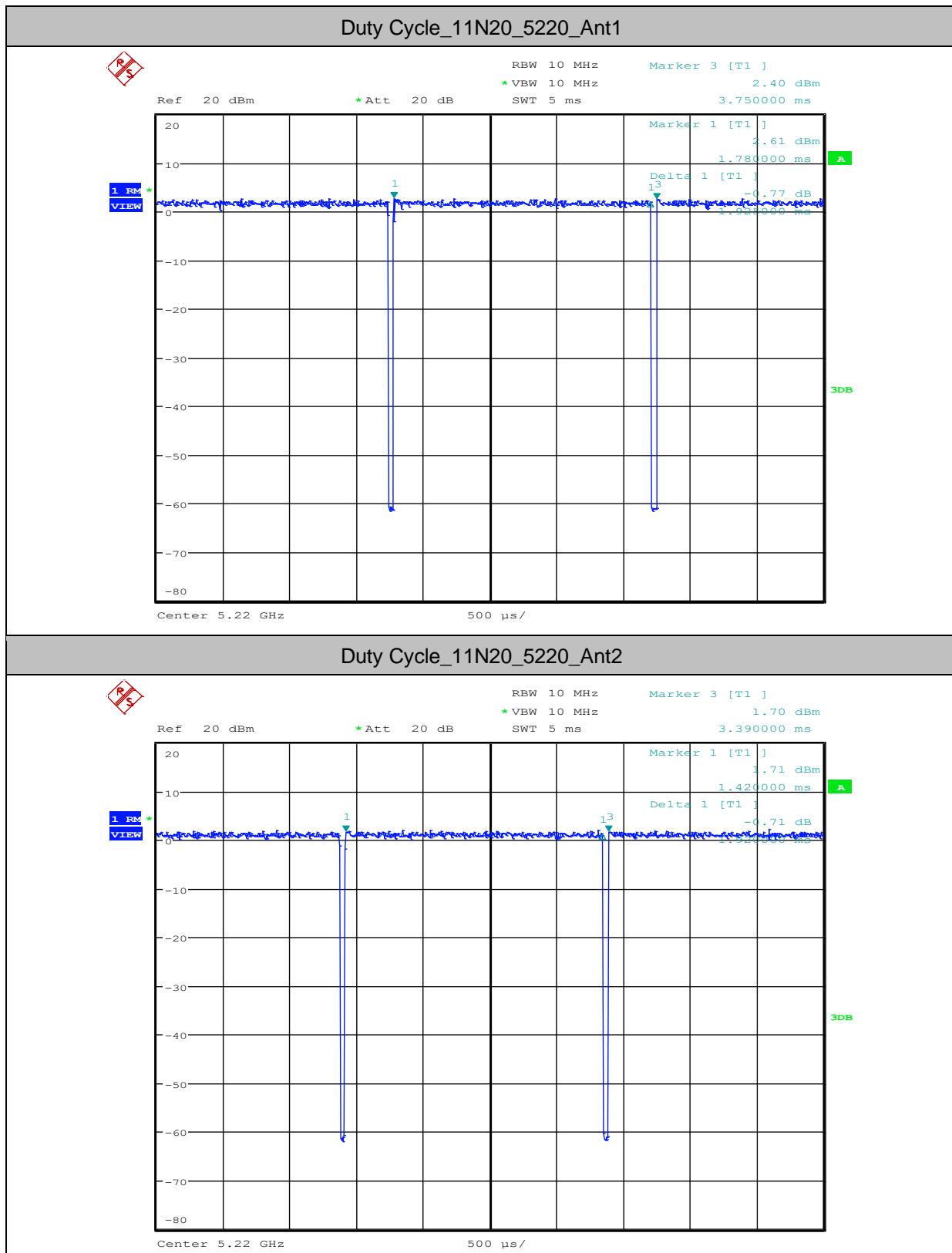
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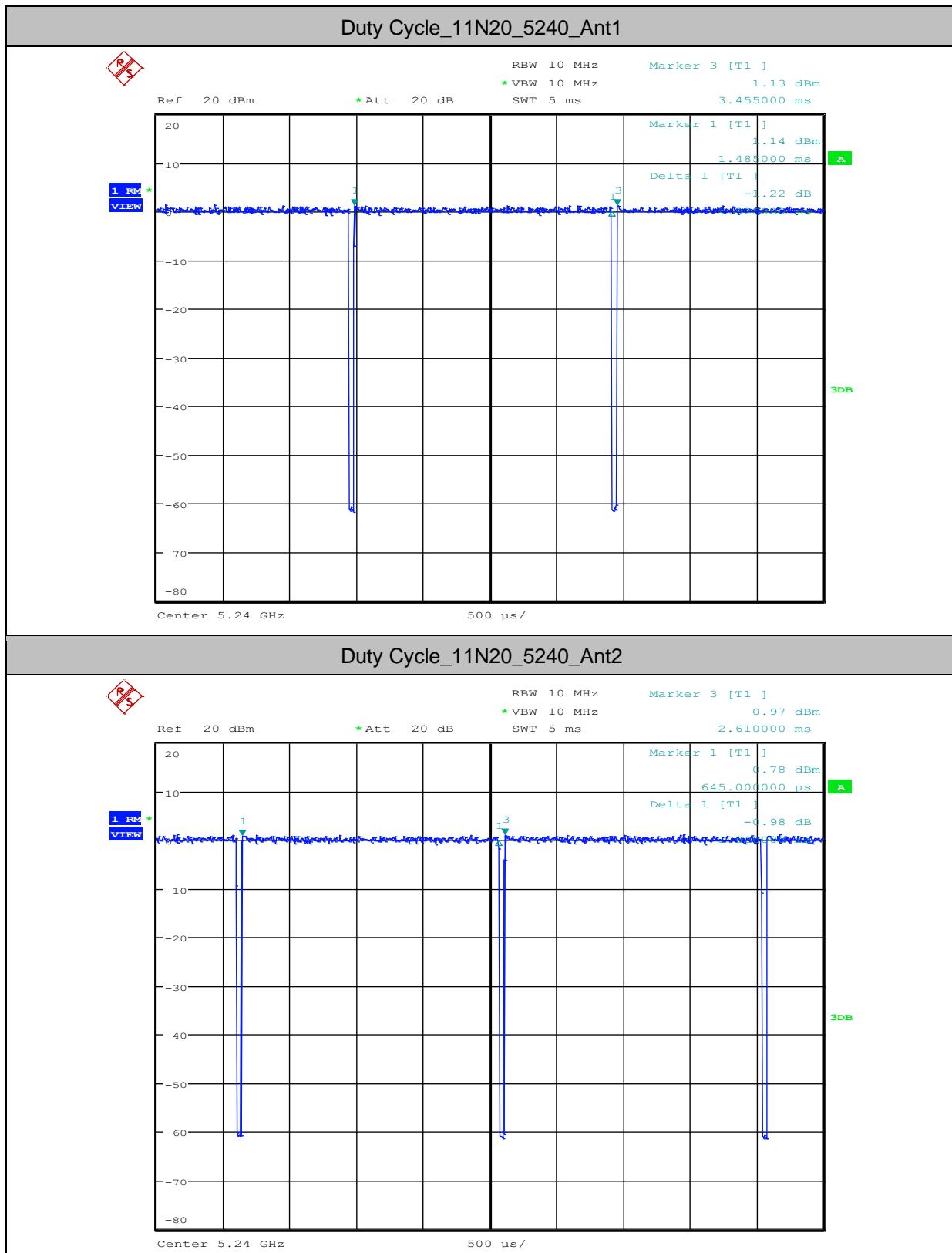
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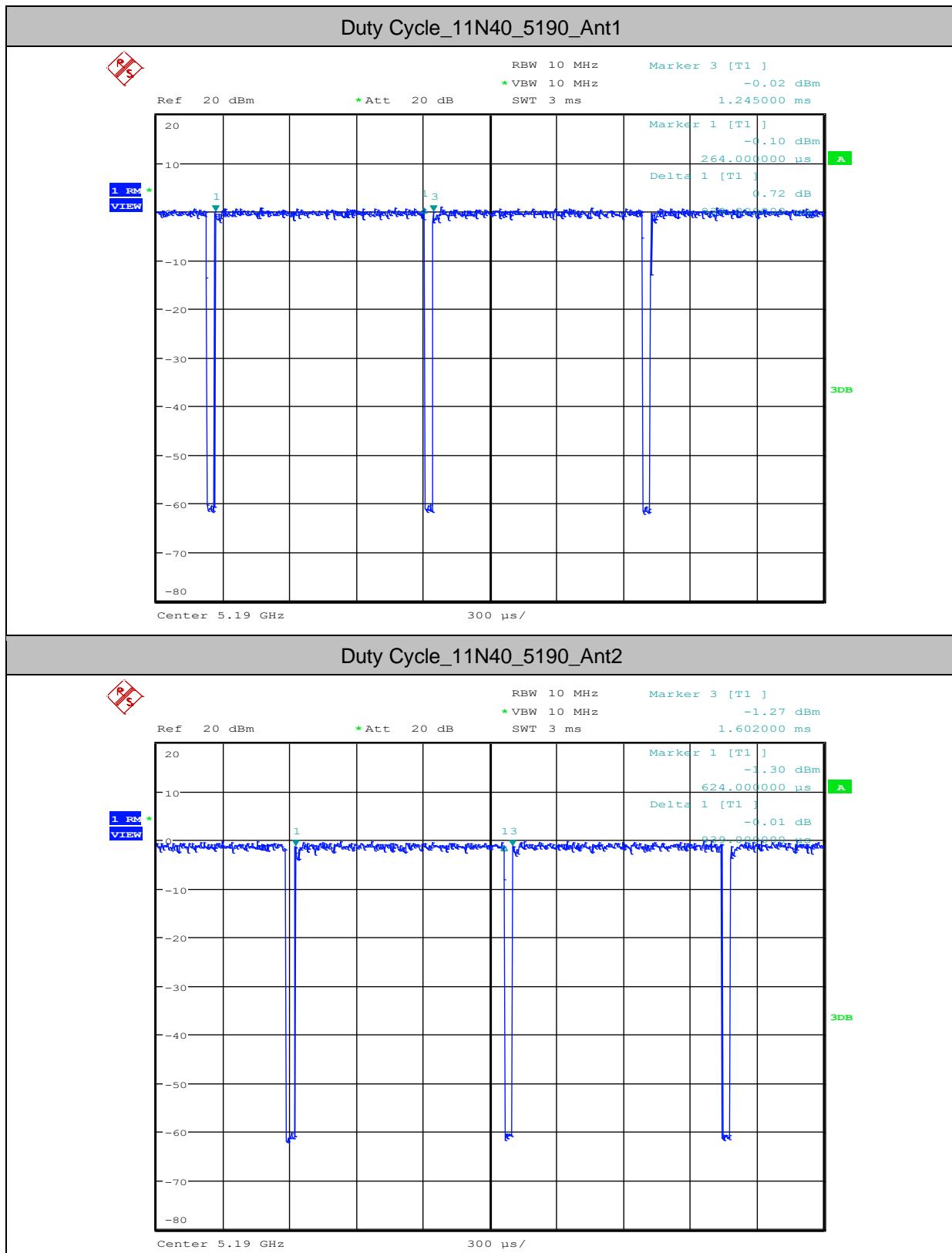
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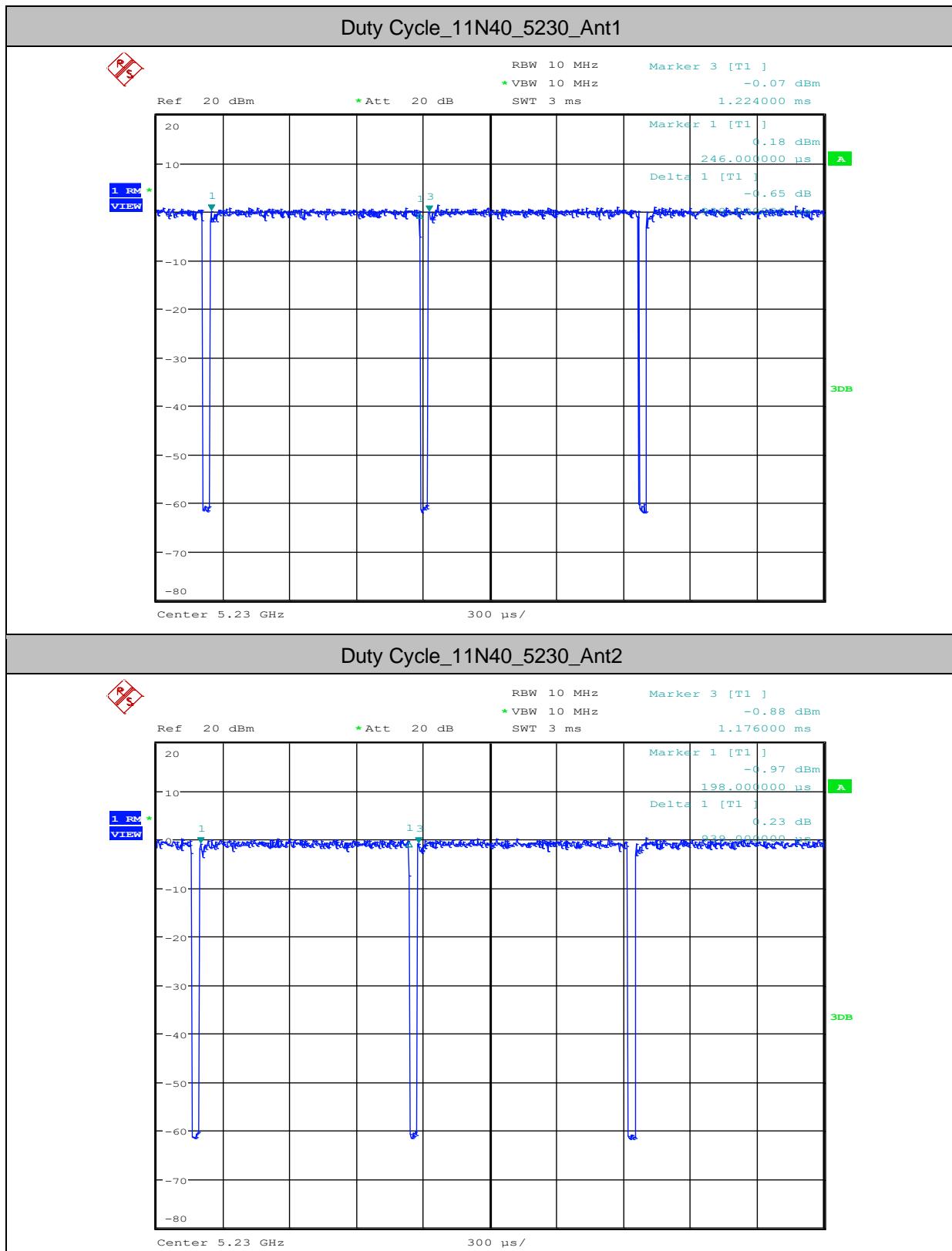


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9.2 Appendix RSS247-5.8G

1. Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	16.350	>=0.5	PASS
11A	5745	Ant2	16.380	>=0.5	PASS
11A	5785	Ant1	16.140	>=0.5	PASS
11A	5785	Ant2	16.380	>=0.5	PASS
11A	5825	Ant1	16.350	>=0.5	PASS
11A	5825	Ant2	16.380	>=0.5	PASS
11N20	5745	Ant1	16.950	>=0.5	PASS
11N20	5745	Ant2	16.980	>=0.5	PASS
11N20	5785	Ant1	16.950	>=0.5	PASS
11N20	5785	Ant2	16.890	>=0.5	PASS
11N20	5825	Ant1	16.950	>=0.5	PASS
11N20	5825	Ant2	17.220	>=0.5	PASS
11N40	5755	Ant1	35.520	>=0.5	PASS
11N40	5755	Ant2	35.520	>=0.5	PASS
11N40	5795	Ant1	35.520	>=0.5	PASS
11N40	5795	Ant2	35.880	>=0.5	PASS

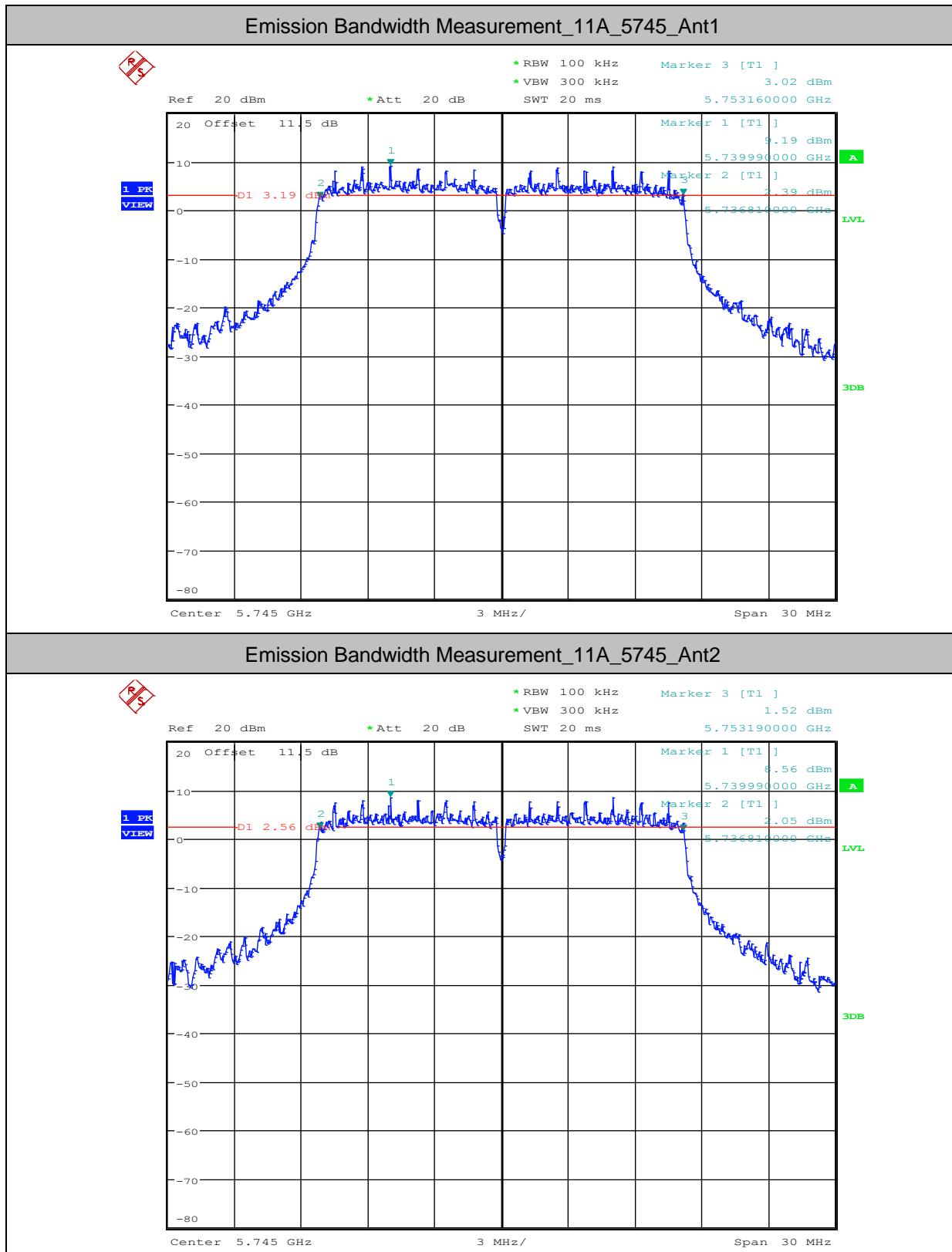
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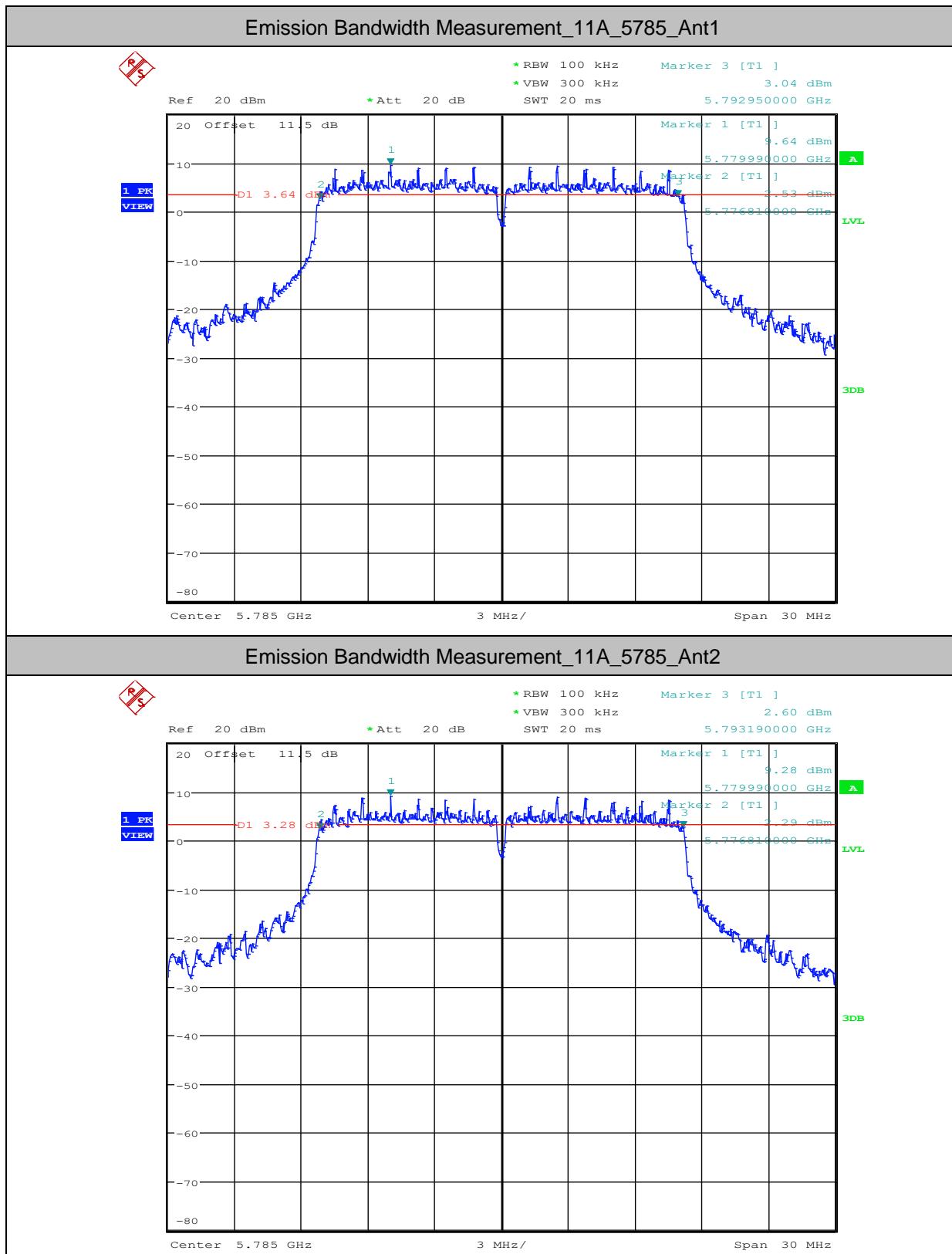
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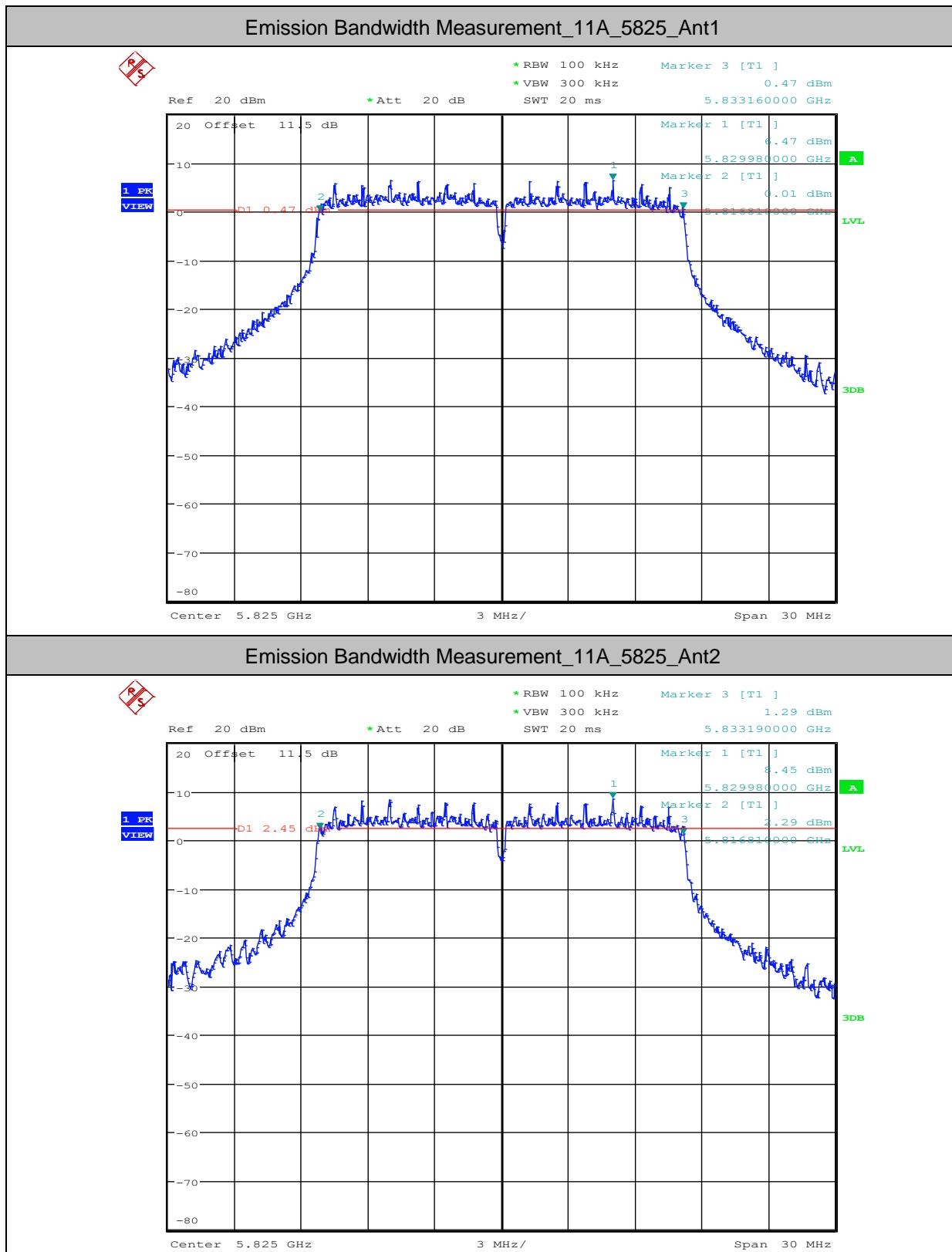
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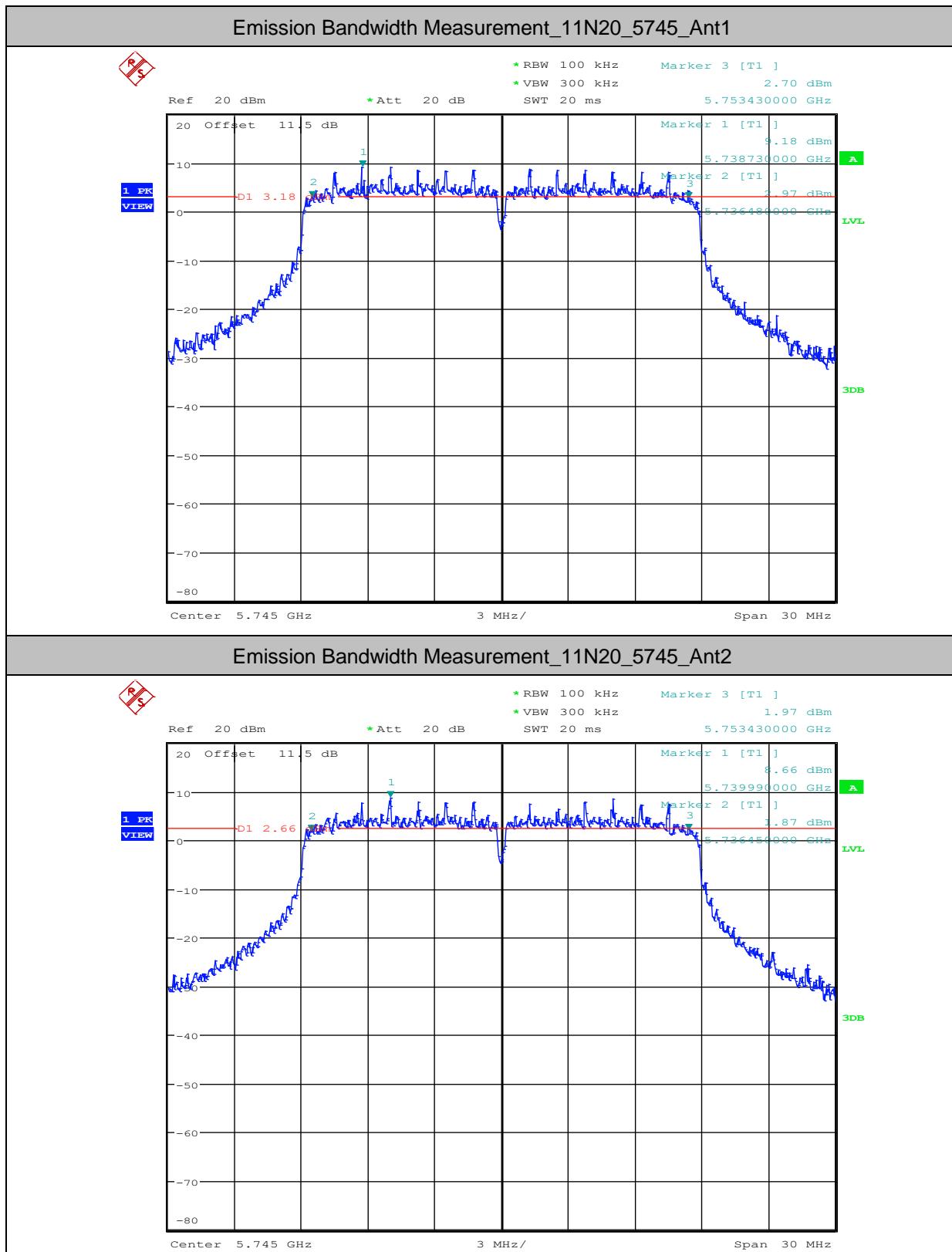
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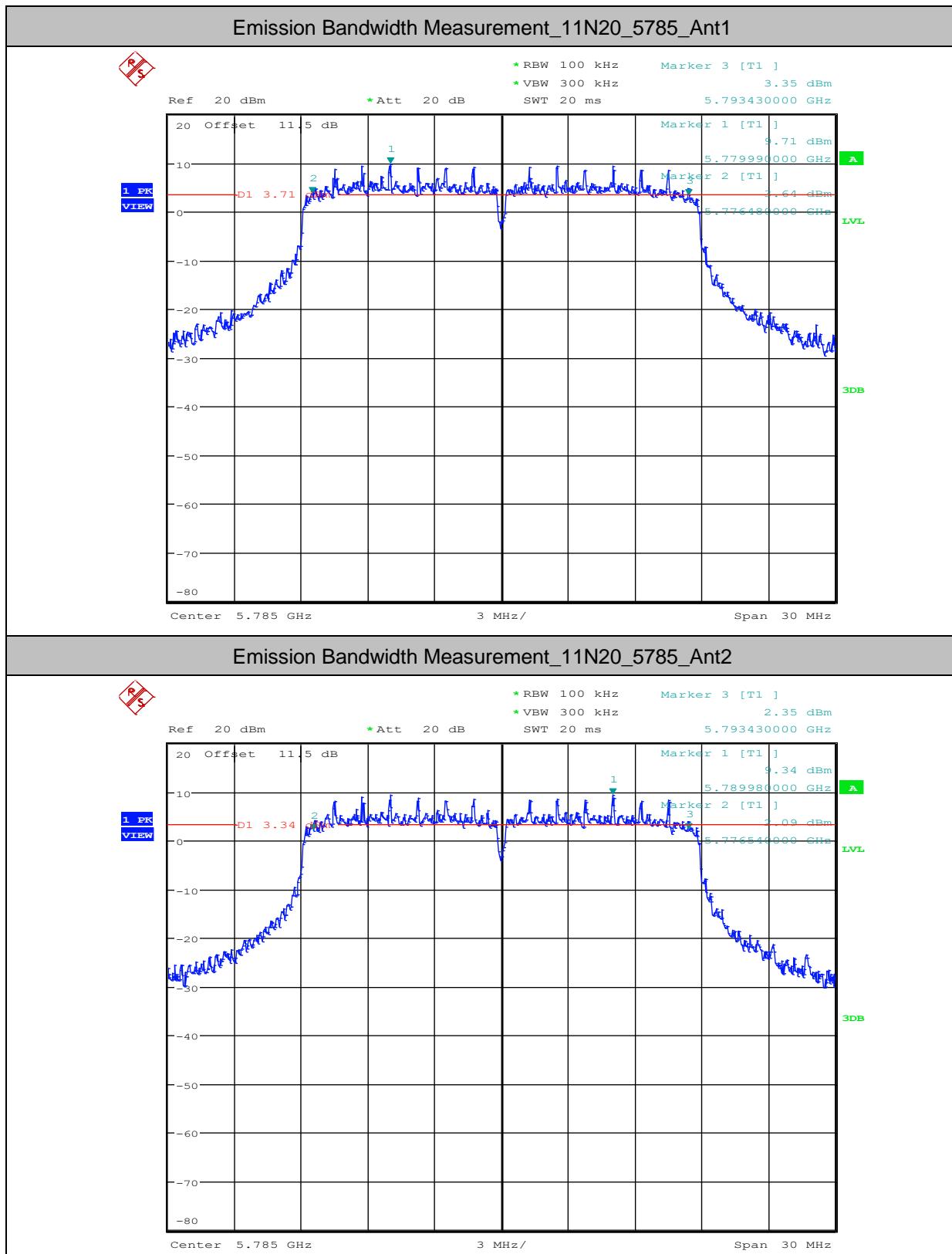
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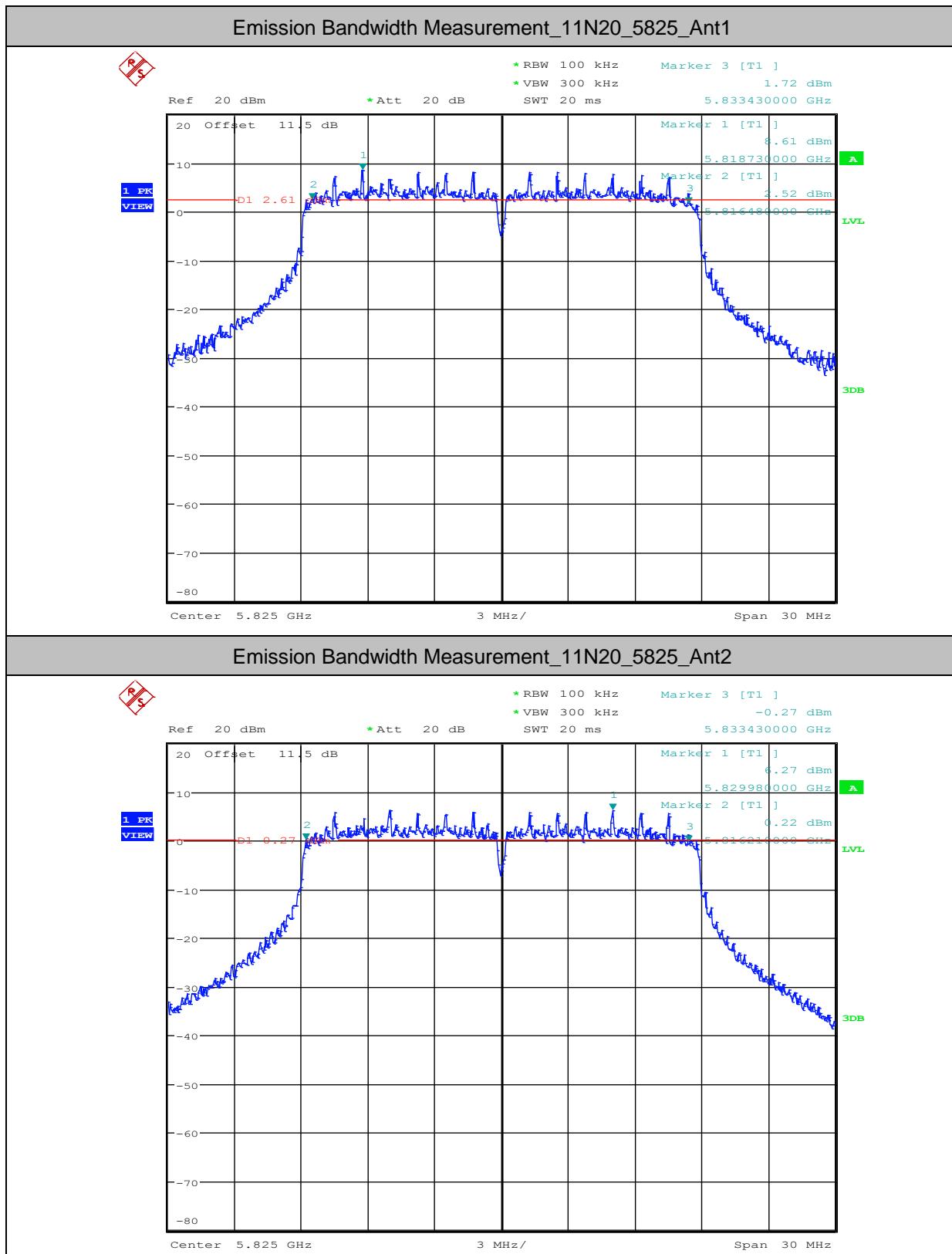
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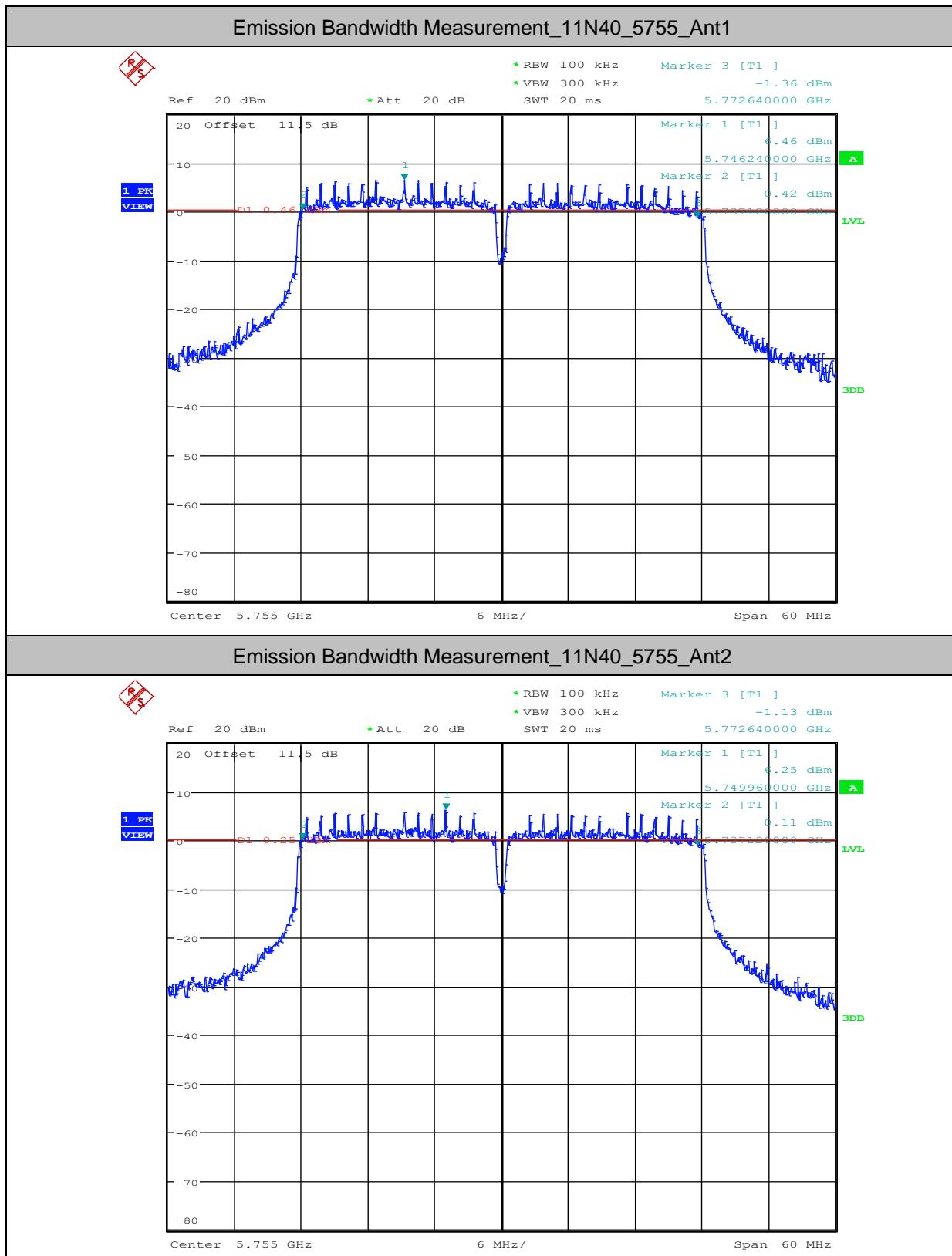
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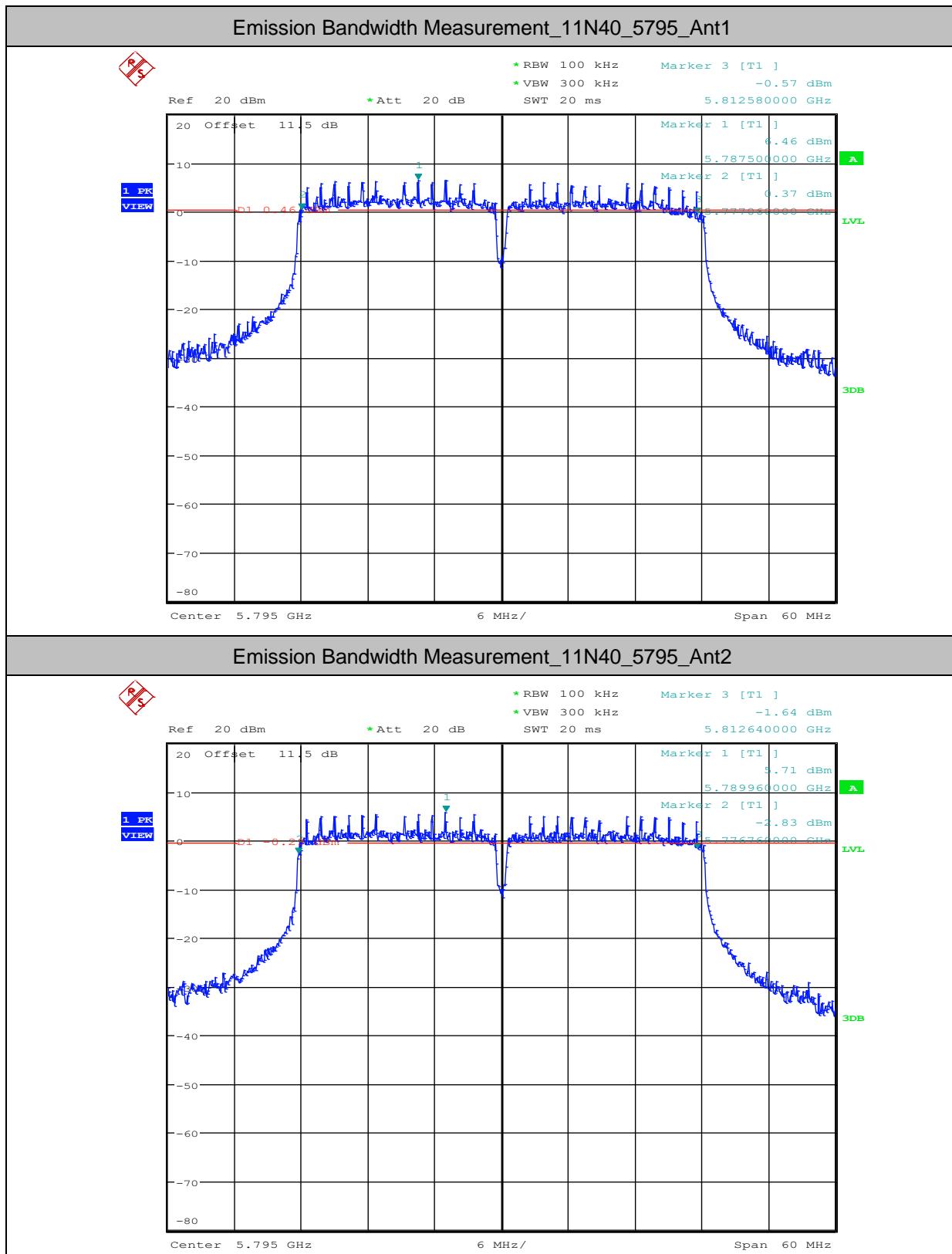
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2.Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	16.950	---	PASS
11A	5745	Ant2	16.710	---	PASS
11A	5785	Ant1	16.950	---	PASS
11A	5785	Ant2	16.770	---	PASS
11A	5825	Ant1	16.920	---	PASS
11A	5825	Ant2	16.710	---	PASS
11N20	5745	Ant1	18.000	---	PASS
11N20	5745	Ant2	17.880	---	PASS
11N20	5785	Ant1	18.000	---	PASS
11N20	5785	Ant2	17.910	---	PASS
11N20	5825	Ant1	18.000	---	PASS
11N20	5825	Ant2	17.880	---	PASS
11N40	5755	Ant1	36.900	---	PASS
11N40	5755	Ant2	36.600	---	PASS
11N40	5795	Ant1	36.900	---	PASS
11N40	5795	Ant2	36.540	---	PASS

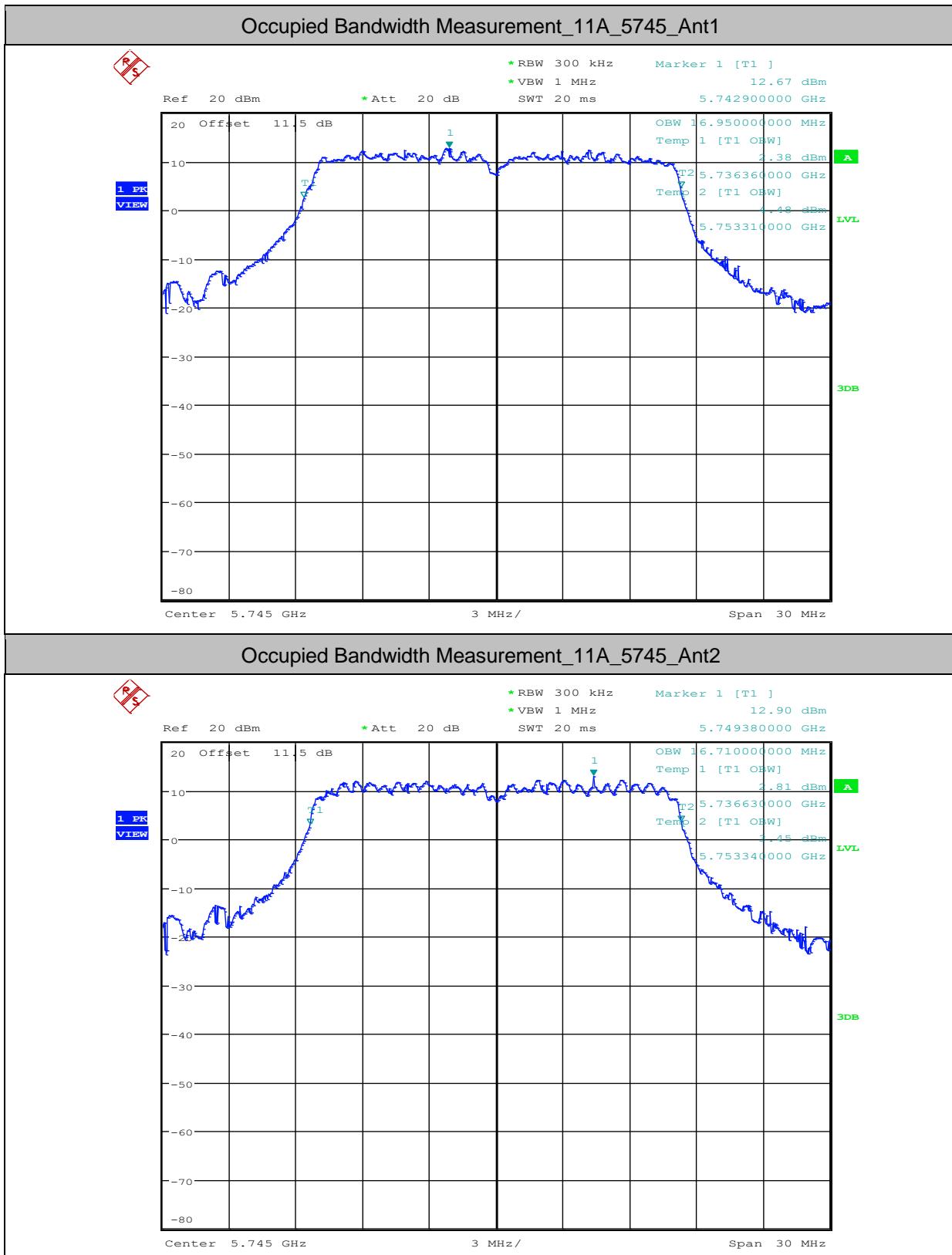
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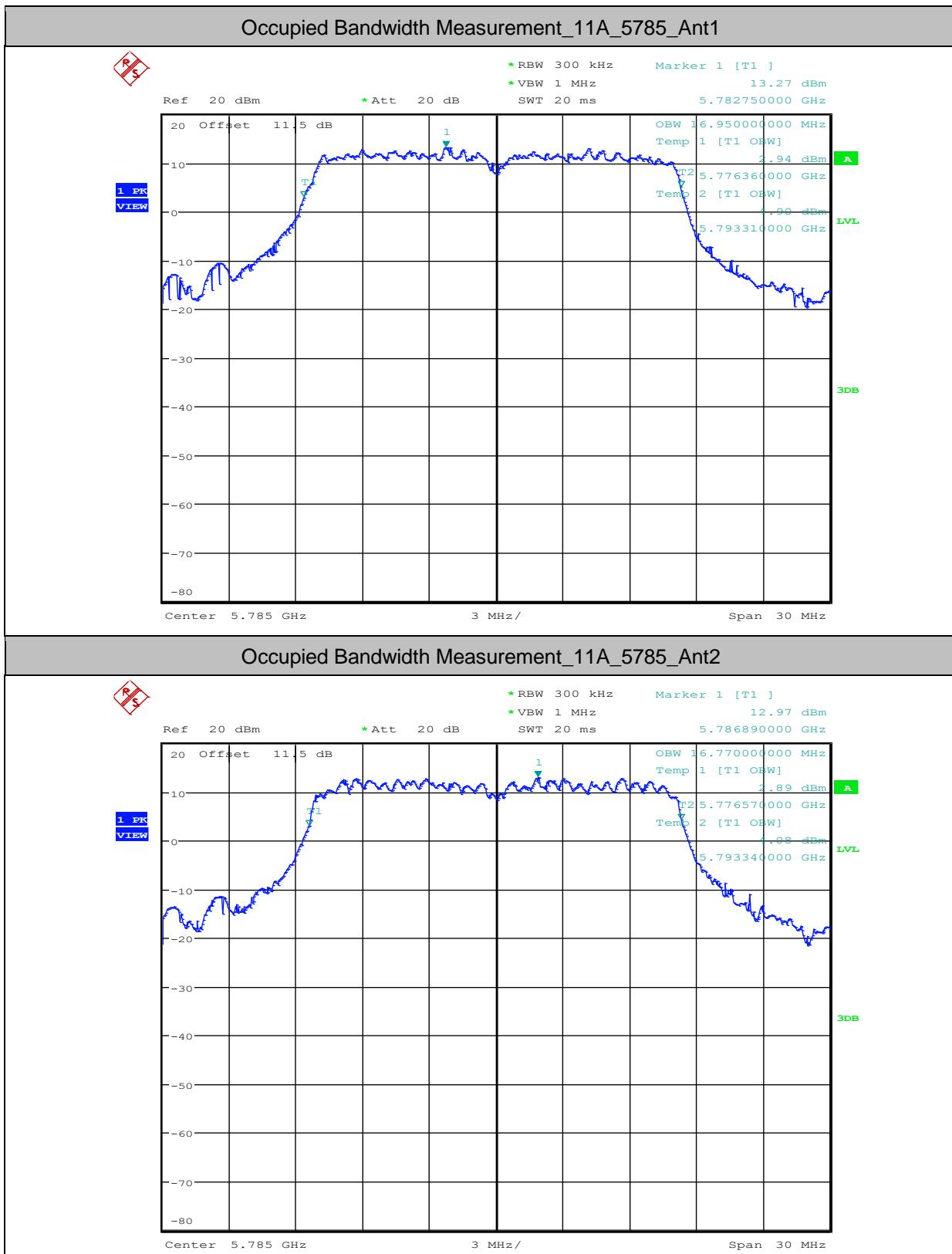
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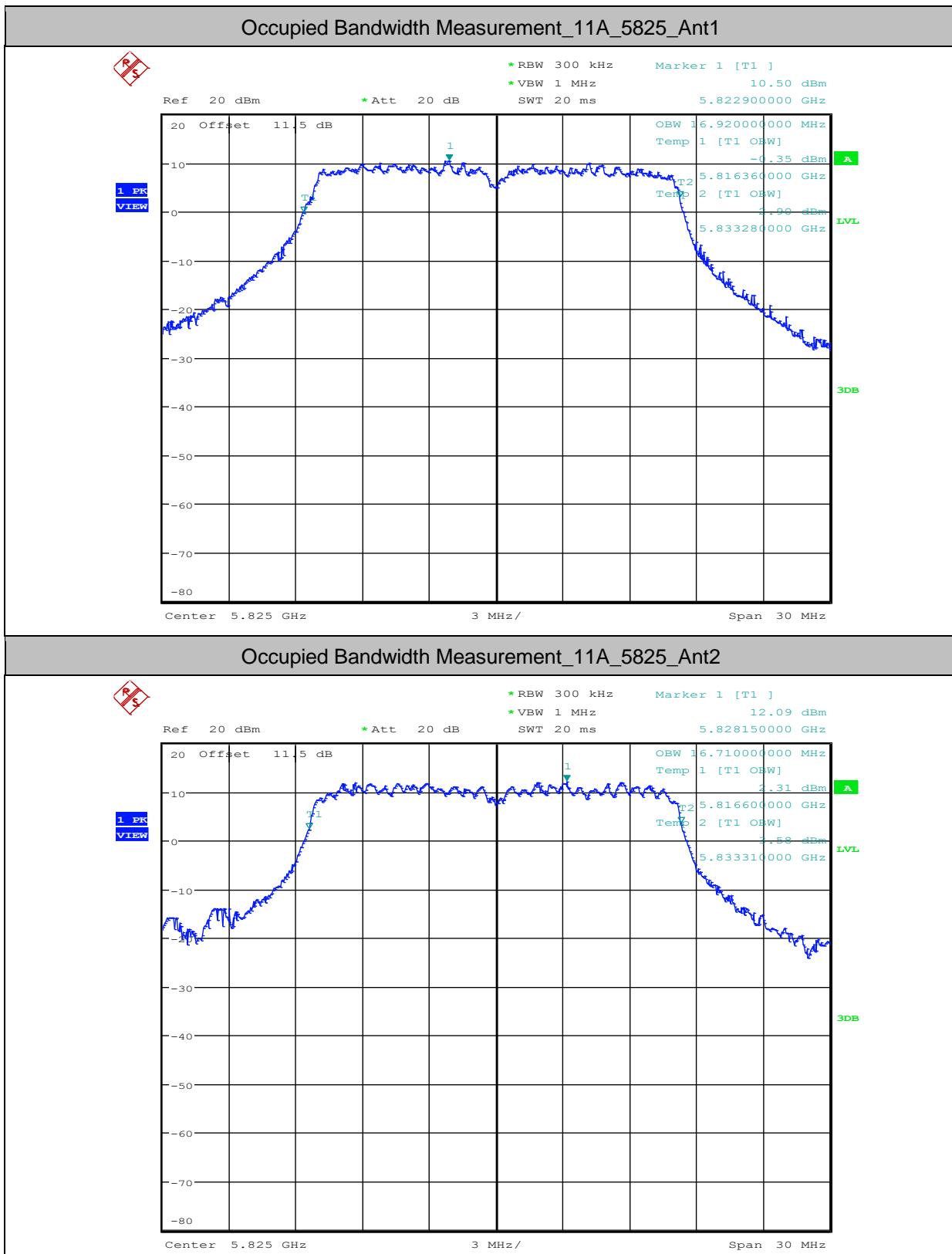
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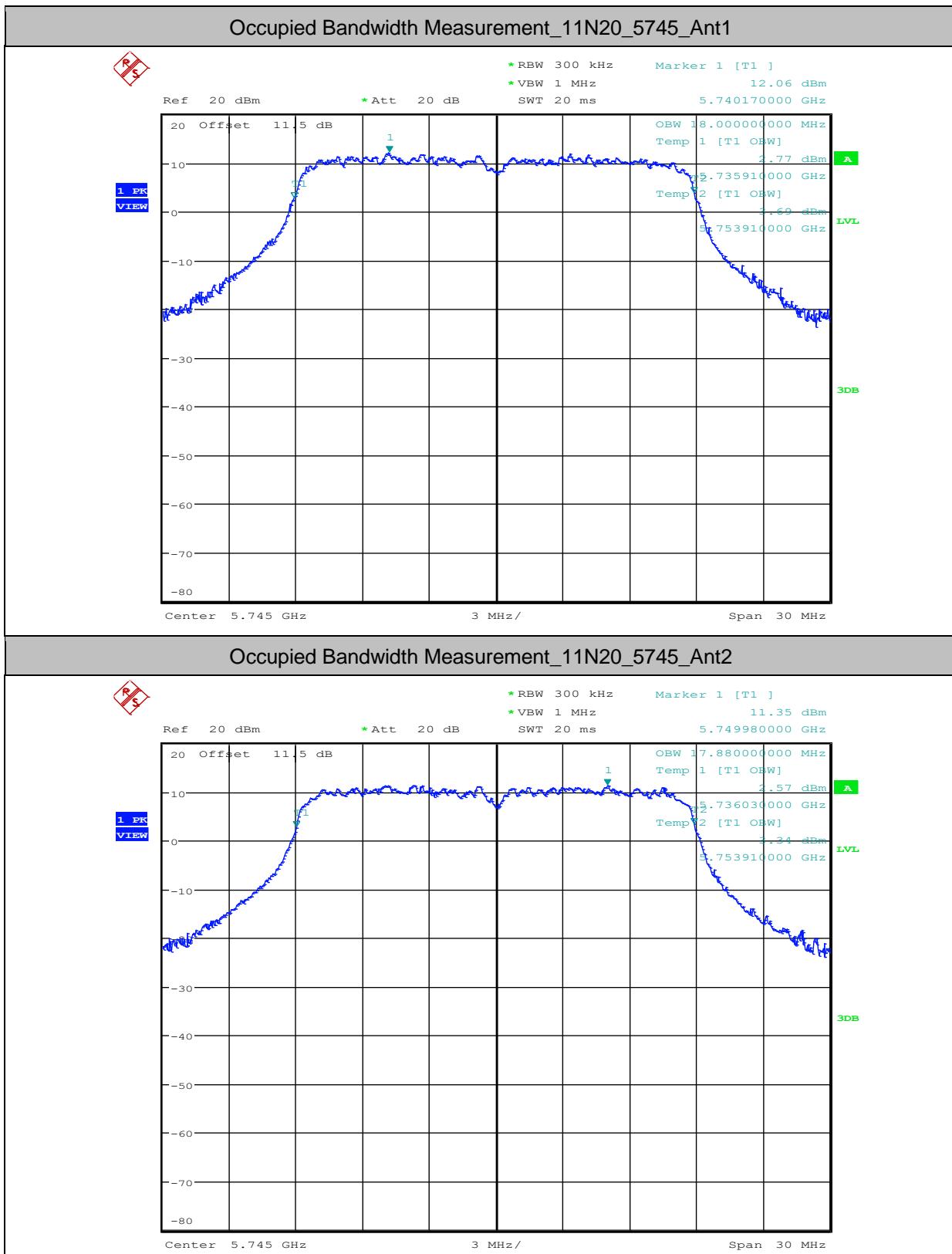
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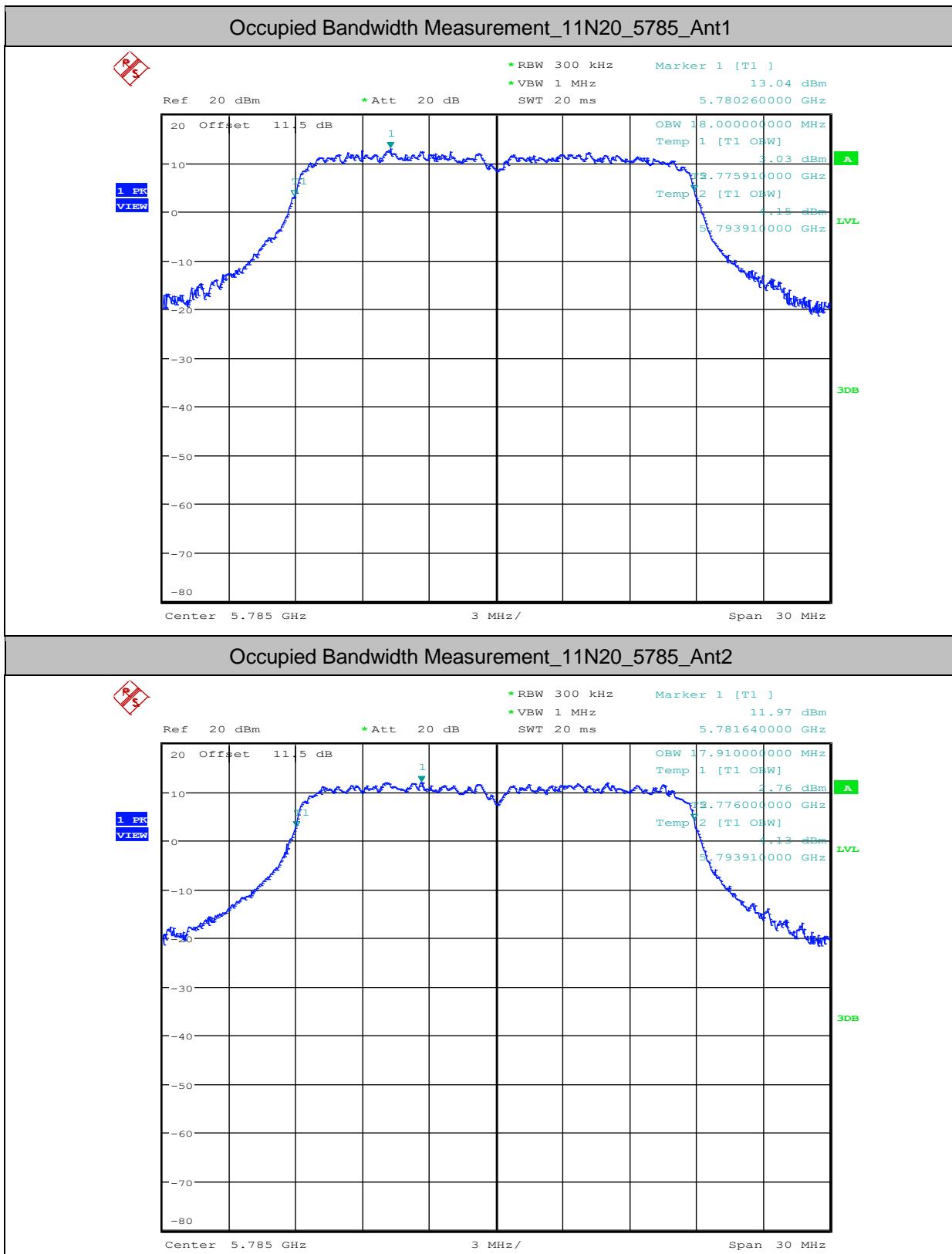
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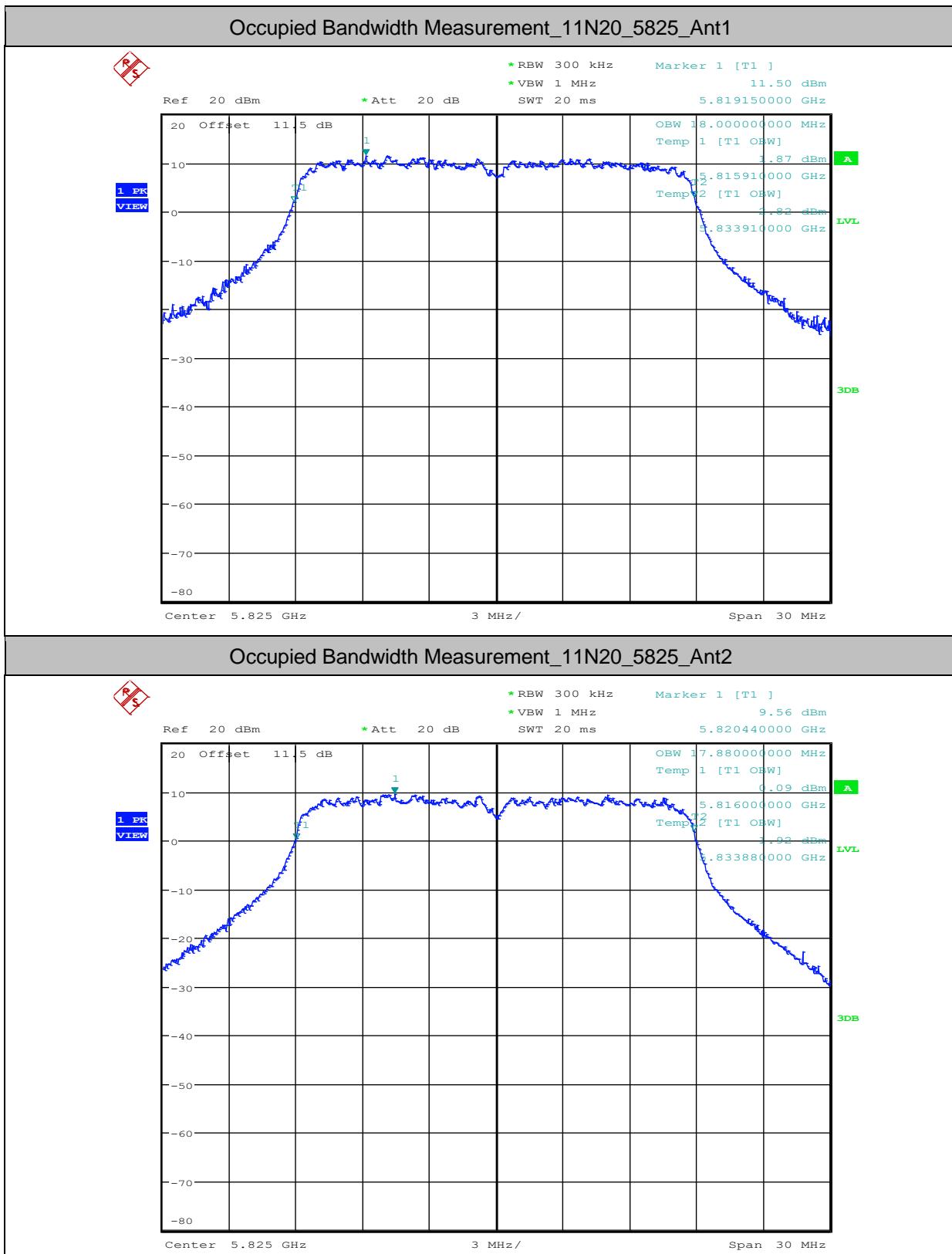


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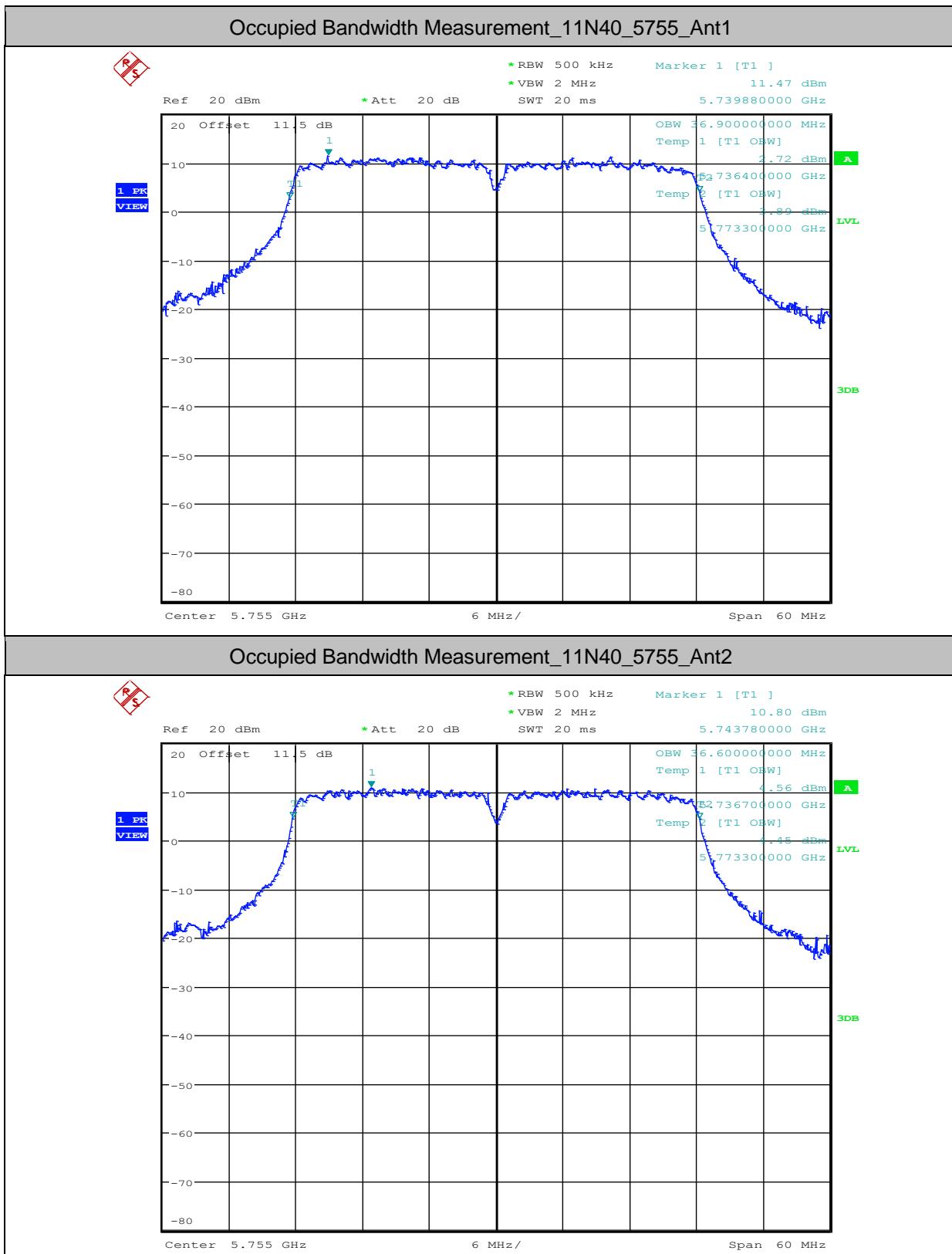


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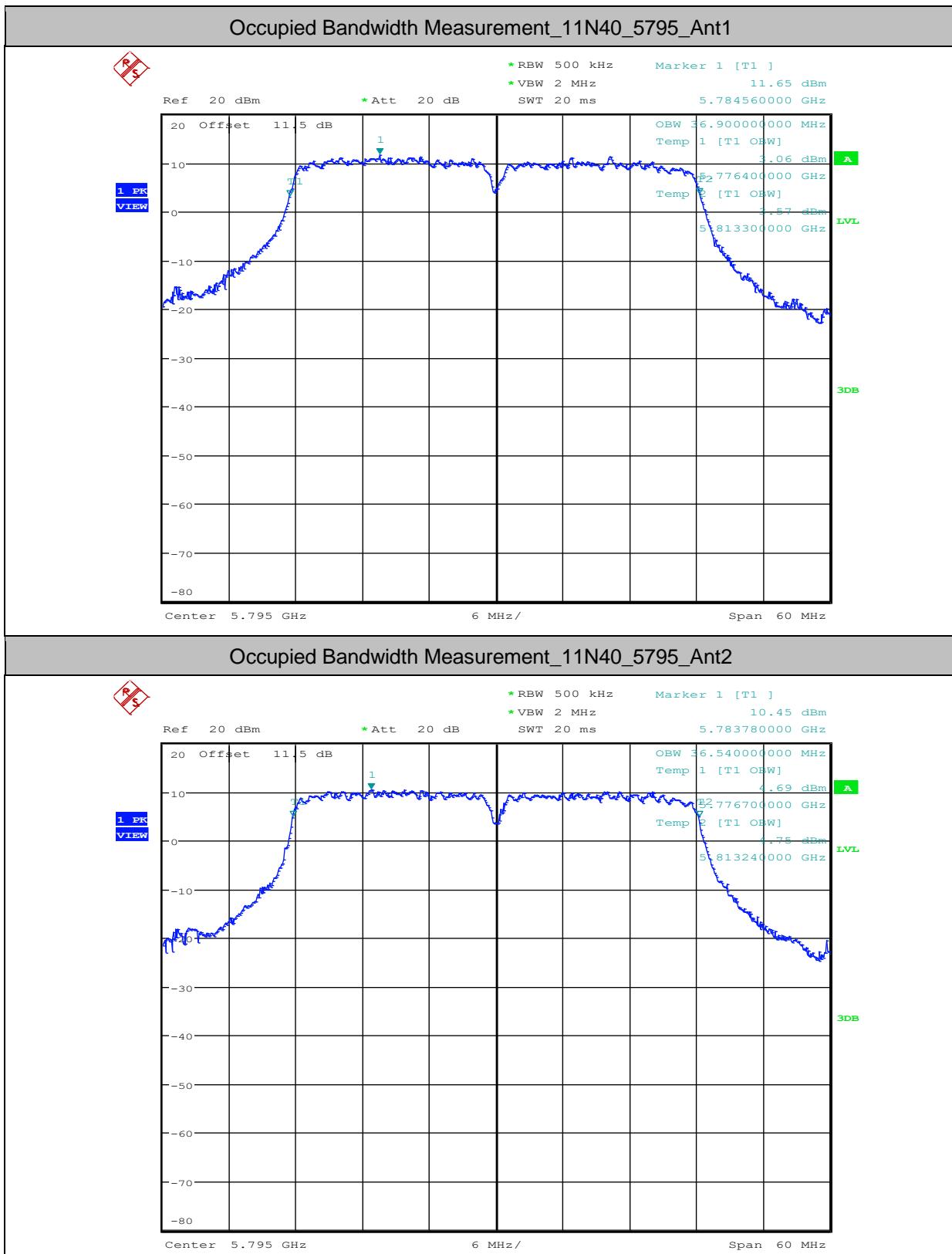


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3. Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	5745	Ant1	20.62	0.09	20.71	<30.00	PASS
11A	5745	Ant2	20.18	0.1	20.28	<30.00	PASS
11A	5785	Ant1	21.06	0.09	21.15	<30.00	PASS
11A	5785	Ant2	20.83	0.09	20.92	<30.00	PASS
11A	5825	Ant1	20.25	0.09	20.34	<30.00	PASS
11A	5825	Ant2	19.97	0.1	20.07	<30.00	PASS
11N20	5745	Ant1	20.63	0.1	20.73	<30.00	PASS
11N20	5745	Ant2	20.05	0.1	20.15	<30.00	PASS
11N20	5785	Ant1	21.09	0.1	21.19	<30.00	PASS
11N20	5785	Ant2	20.65	0.1	20.75	<30.00	PASS
11N20	5825	Ant1	20.02	0.1	20.12	<30.00	PASS
11N20	5825	Ant2	19.92	0.1	20.02	<30.00	PASS
11N40	5755	Ant1	20.9	0.18	21.08	<30.00	PASS
11N40	5755	Ant2	20.52	0.19	20.71	<30.00	PASS
11N40	5795	Ant1	20.94	0.19	21.13	<30.00	PASS
11N40	5795	Ant2	20.22	0.19	20.41	<30.00	PASS

Test Mode	Test Channel	Ant	Power [dBm]	Limit [dBm]	Verdict
11A	5745	Ant1+Ant 2	23.51	<28.99	PASS
11A	5785	Ant1+Ant 2	24.05	<28.99	PASS
11A	5825	Ant1+Ant 2	23.22	<28.99	PASS
11N20	5745	Ant1+Ant 2	23.46	<28.99	PASS
11N20	5785	Ant1+Ant 2	23.99	<28.99	PASS
11N20	5825	Ant1+Ant 2	23.08	<28.99	PASS
11N40	5755	Ant1+Ant 2	23.91	<28.99	PASS
11N40	5795	Ant1+Ant 2	23.80	<28.99	PASS

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4. Maximum Power Spectral Density

Test Mode	Test Channel	Ant	Level [dBm/500kHz]	10log(1/x) Factor [dB]	10log(500kHz/RBW) Factor [dB]	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	5745	Ant1	8.41	0.09	0	8.5	<30.00	PASS
11A	5745	Ant2	8.12	0.1	0	8.22	<30.00	PASS
11A	5785	Ant1	8.99	0.09	0	9.08	<30.00	PASS
11A	5785	Ant2	8.66	0.09	0	8.75	<30.00	PASS
11A	5825	Ant1	8.01	0.09	0	8.1	<30.00	PASS
11A	5825	Ant2	7.88	0.1	0	7.98	<30.00	PASS
11N20	5745	Ant1	8.51	0.1	0	8.61	<30.00	PASS
11N20	5745	Ant2	7.75	0.1	0	7.85	<30.00	PASS
11N20	5785	Ant1	8.92	0.1	0	9.02	<30.00	PASS
11N20	5785	Ant2	8.33	0.1	0	8.43	<30.00	PASS
11N20	5825	Ant1	7.92	0.1	0	8.02	<30.00	PASS
11N20	5825	Ant2	7.55	0.1	0	7.65	<30.00	PASS
11N40	5755	Ant1	6.03	0.18	0	6.21	<30.00	PASS
11N40	5755	Ant2	5.46	0.19	0	5.65	<30.00	PASS
11N40	5795	Ant1	6.06	0.19	0	6.25	<30.00	PASS
11N40	5795	Ant2	5.06	0.19	0	5.25	<30.00	PASS

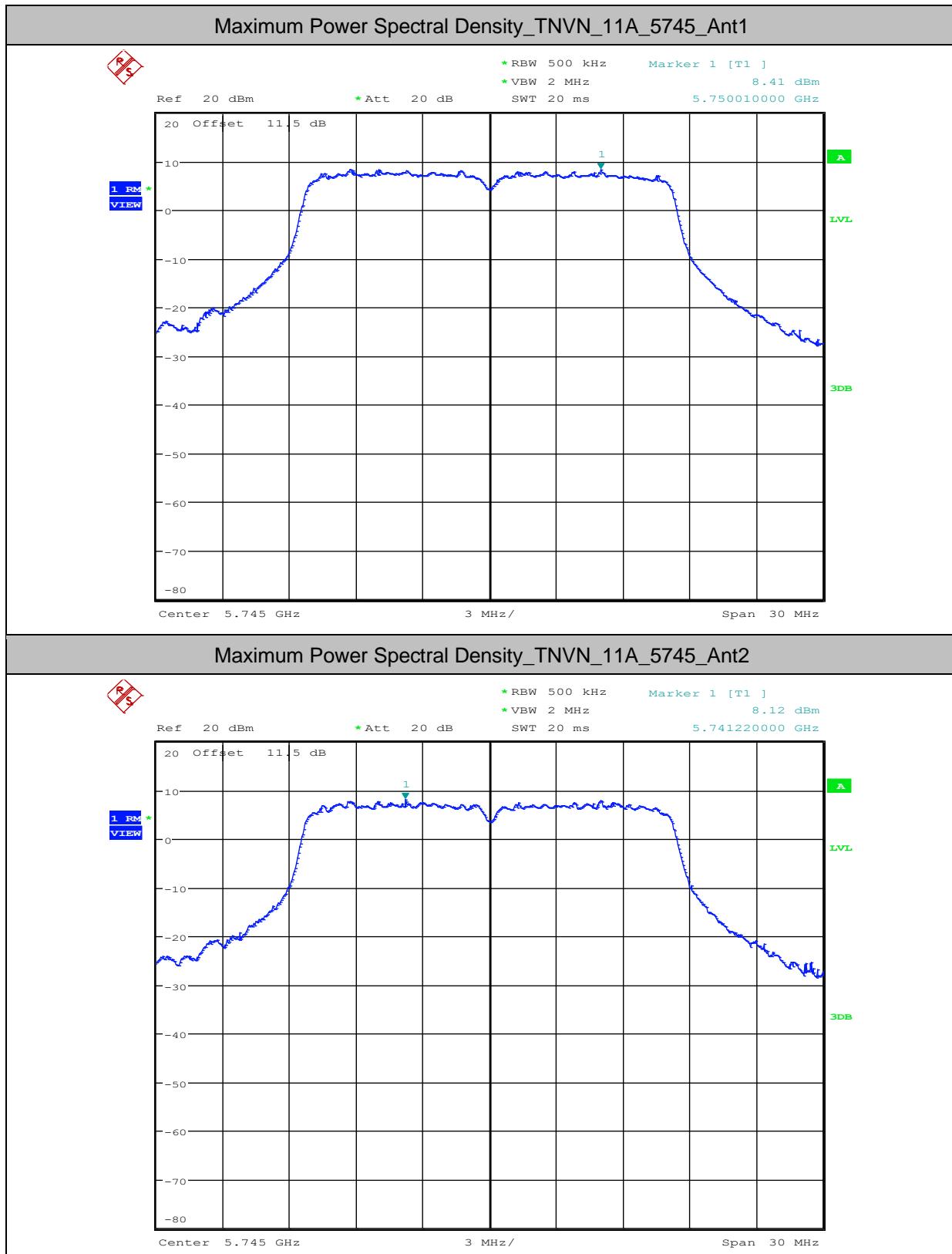
Test Mode	Test Channel	Ant	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	5745	Ant1+Ant2	11.37	<28.99	PASS
11A	5785	Ant1+Ant2	11.93	<28.99	PASS
11A	5825	Ant1+Ant2	11.05	<28.99	PASS
11N20	5745	Ant1+Ant2	11.26	<28.99	PASS
11N20	5785	Ant1+Ant2	11.75	<28.99	PASS
11N20	5825	Ant1+Ant2	10.85	<28.99	PASS
11N40	5755	Ant1+Ant2	8.95	<28.99	PASS
11N40	5795	Ant1+Ant2	8.79	<28.99	PASS

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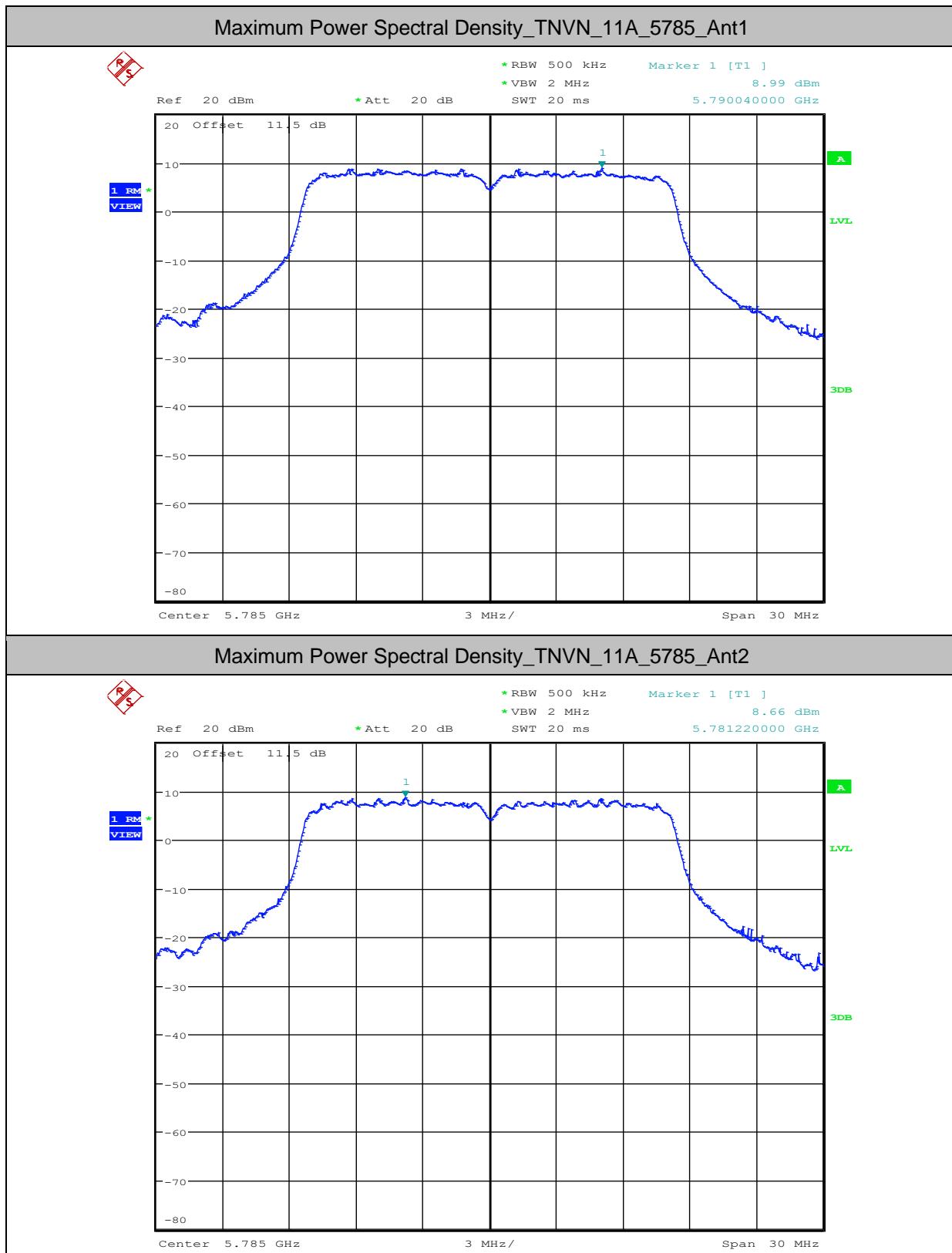


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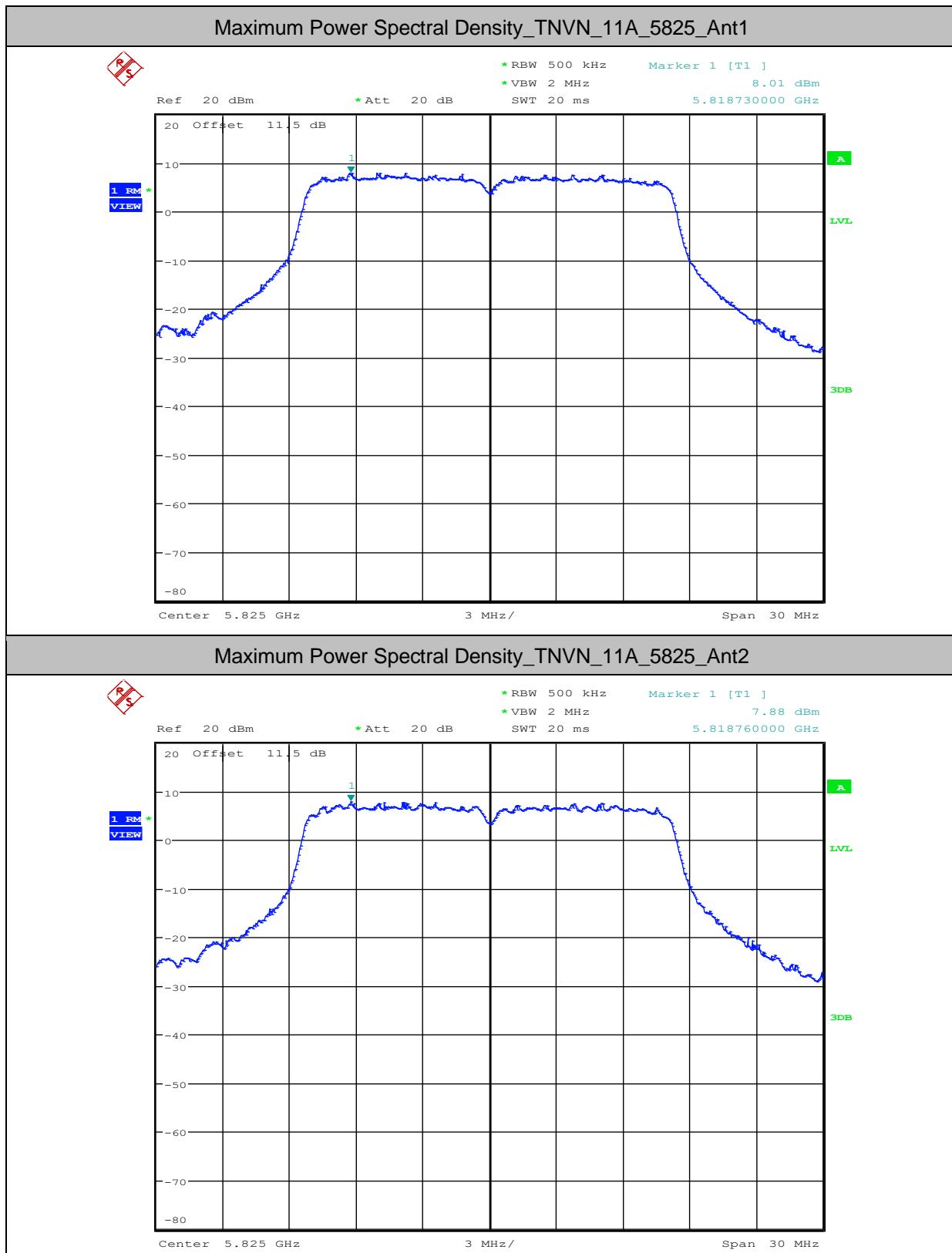
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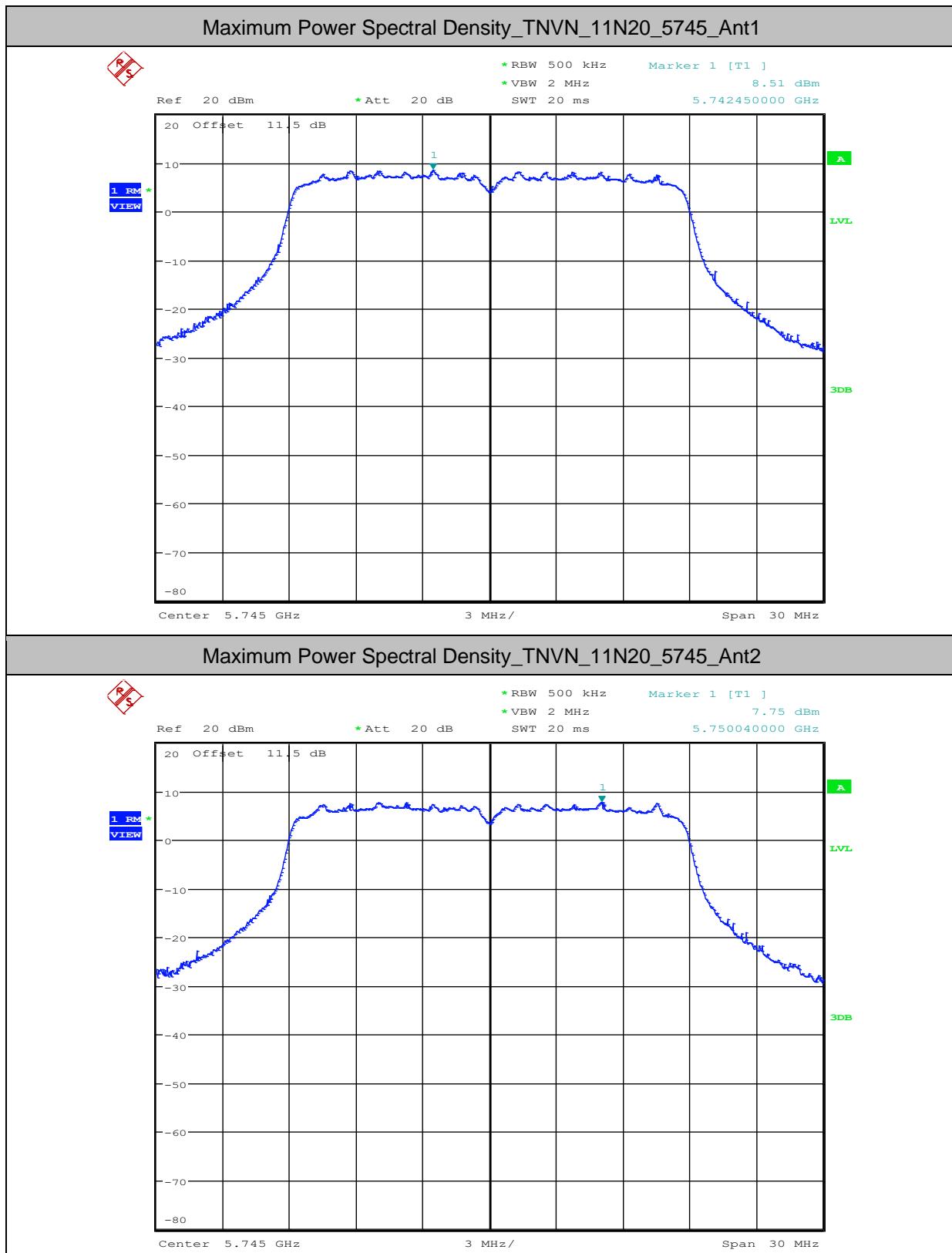
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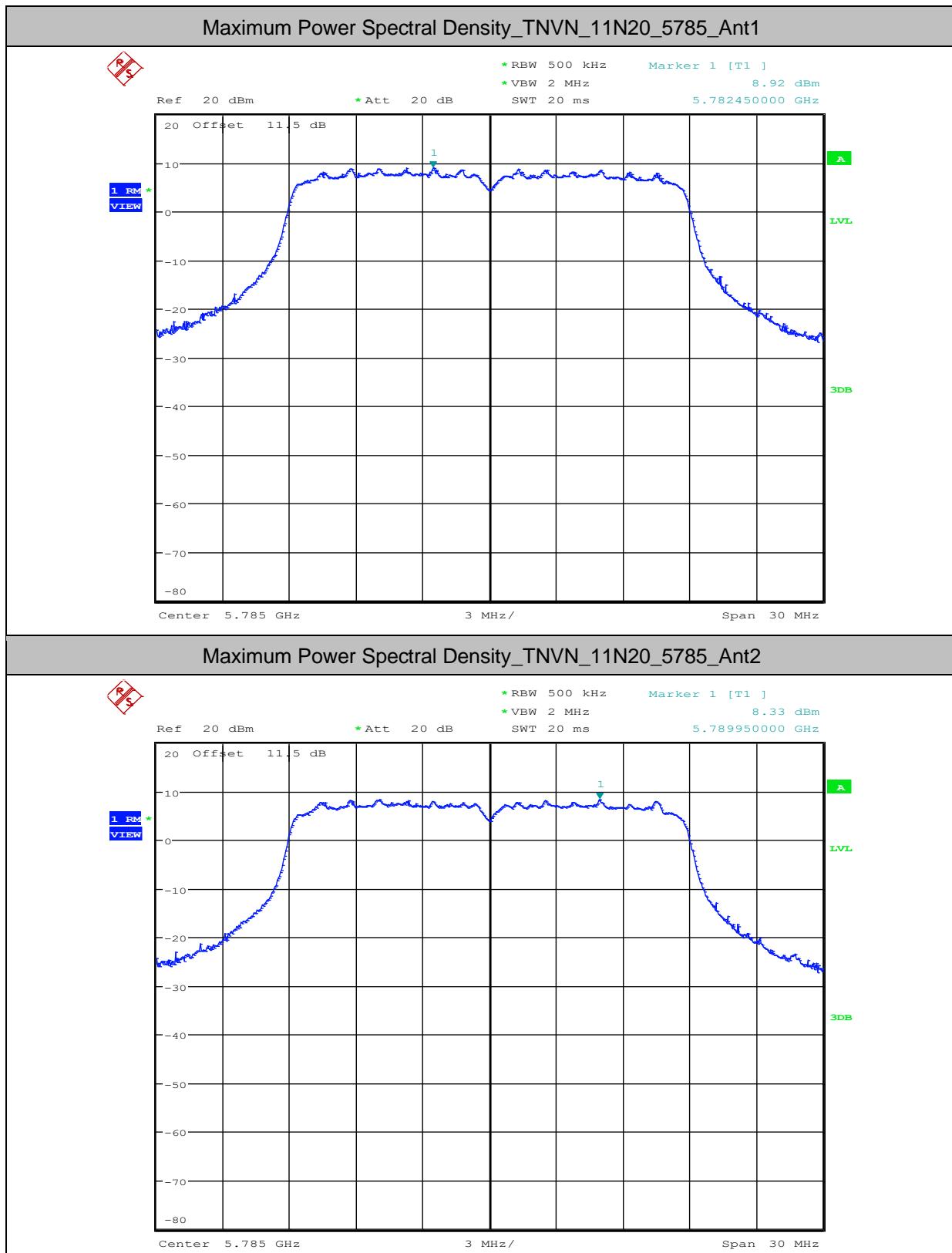
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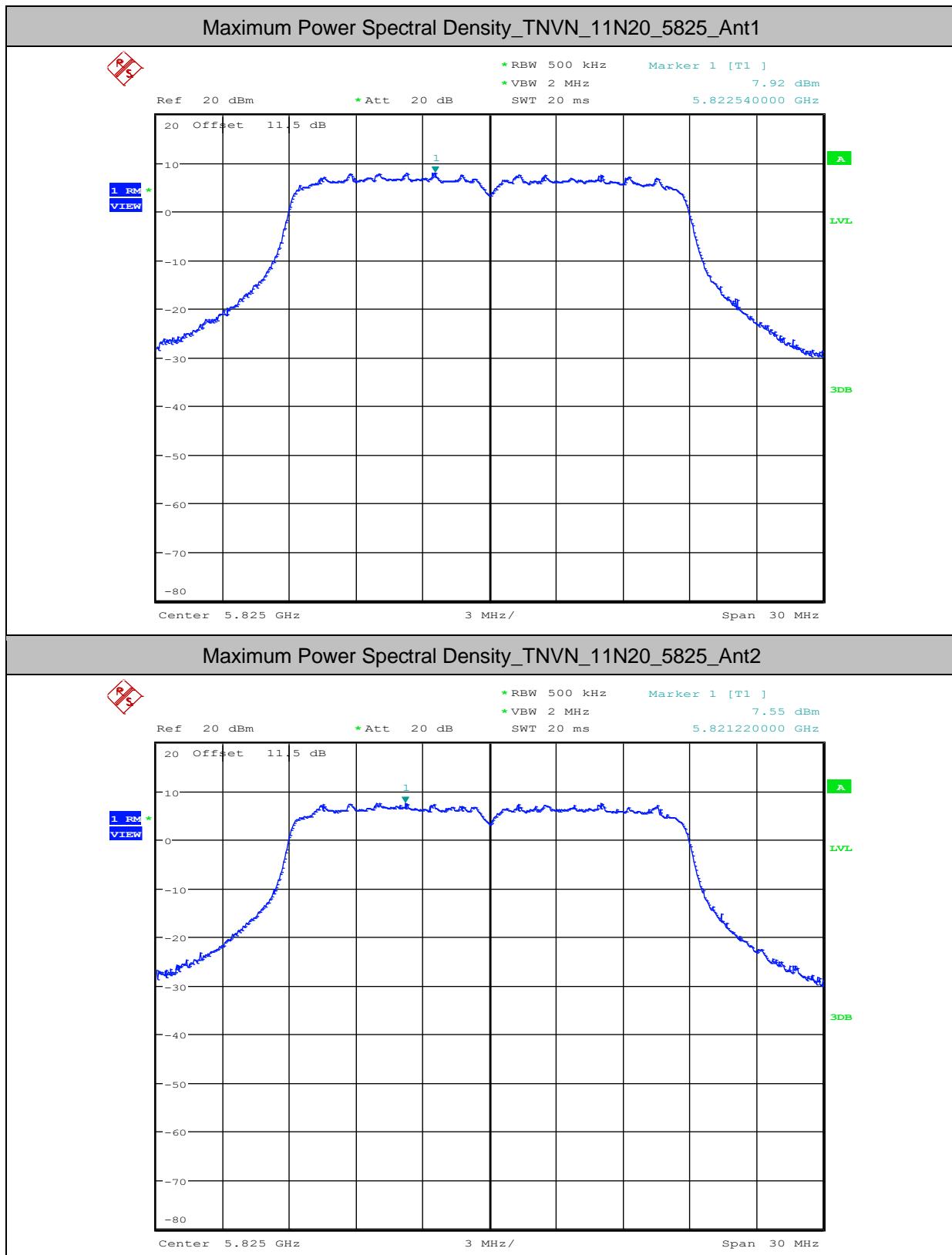
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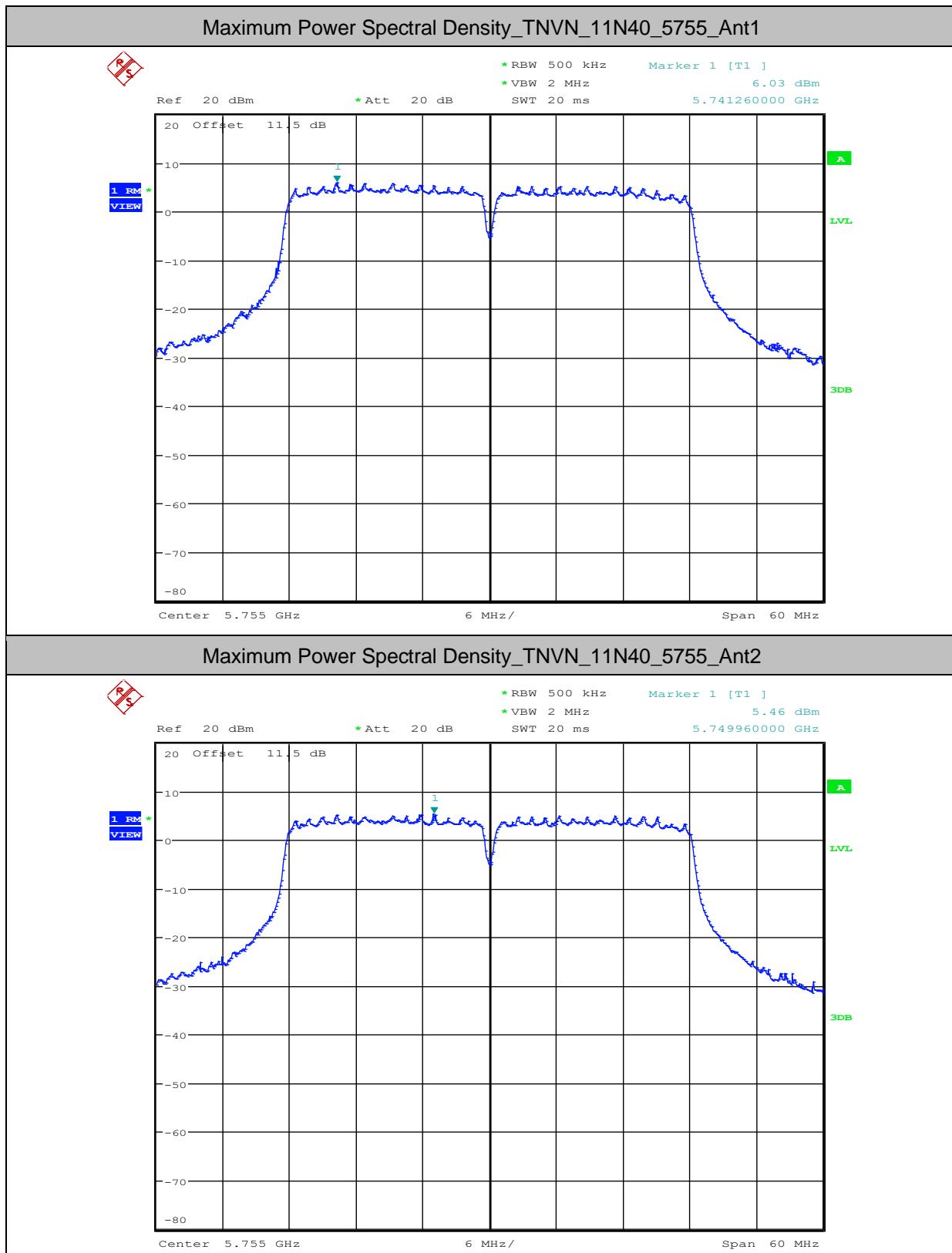
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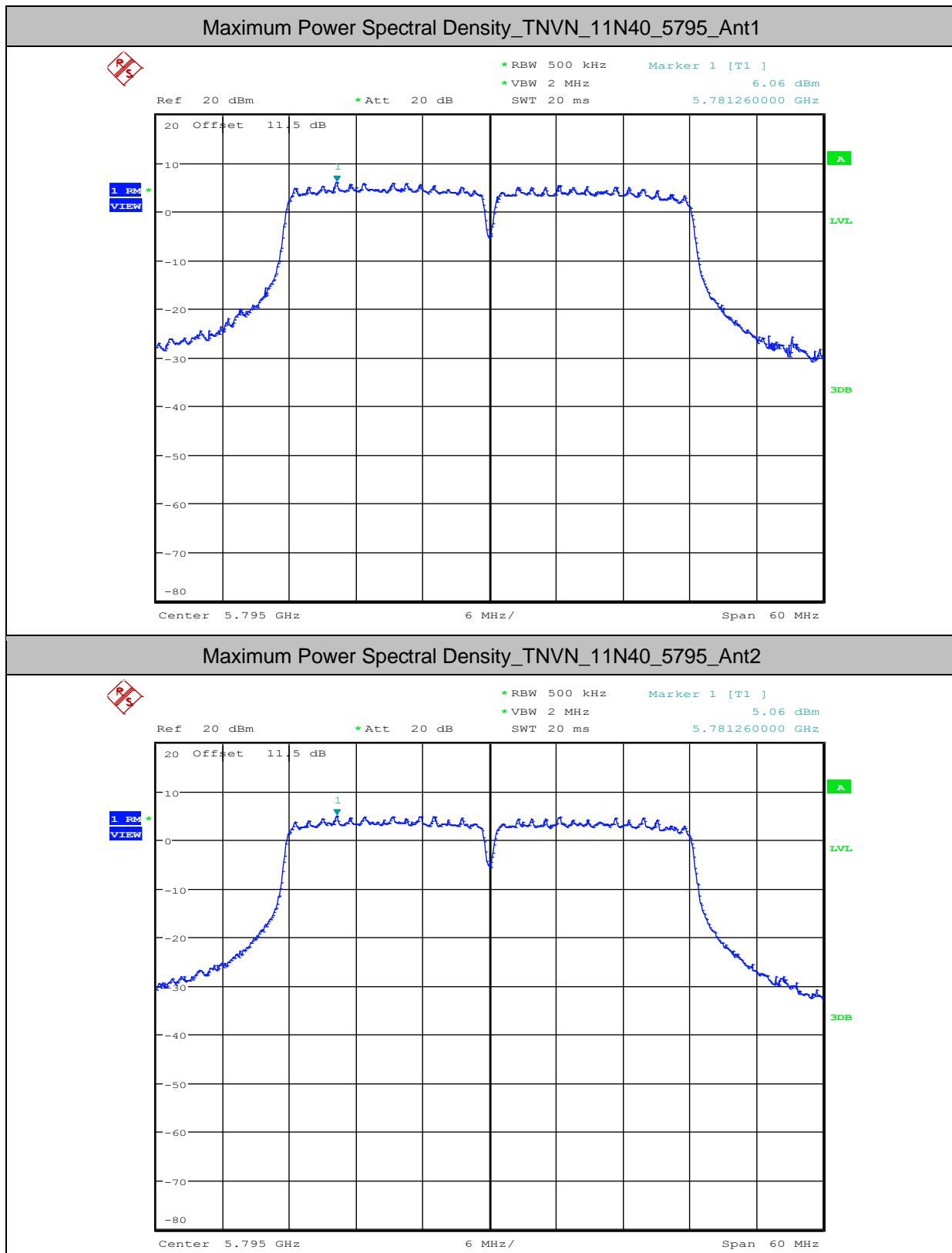
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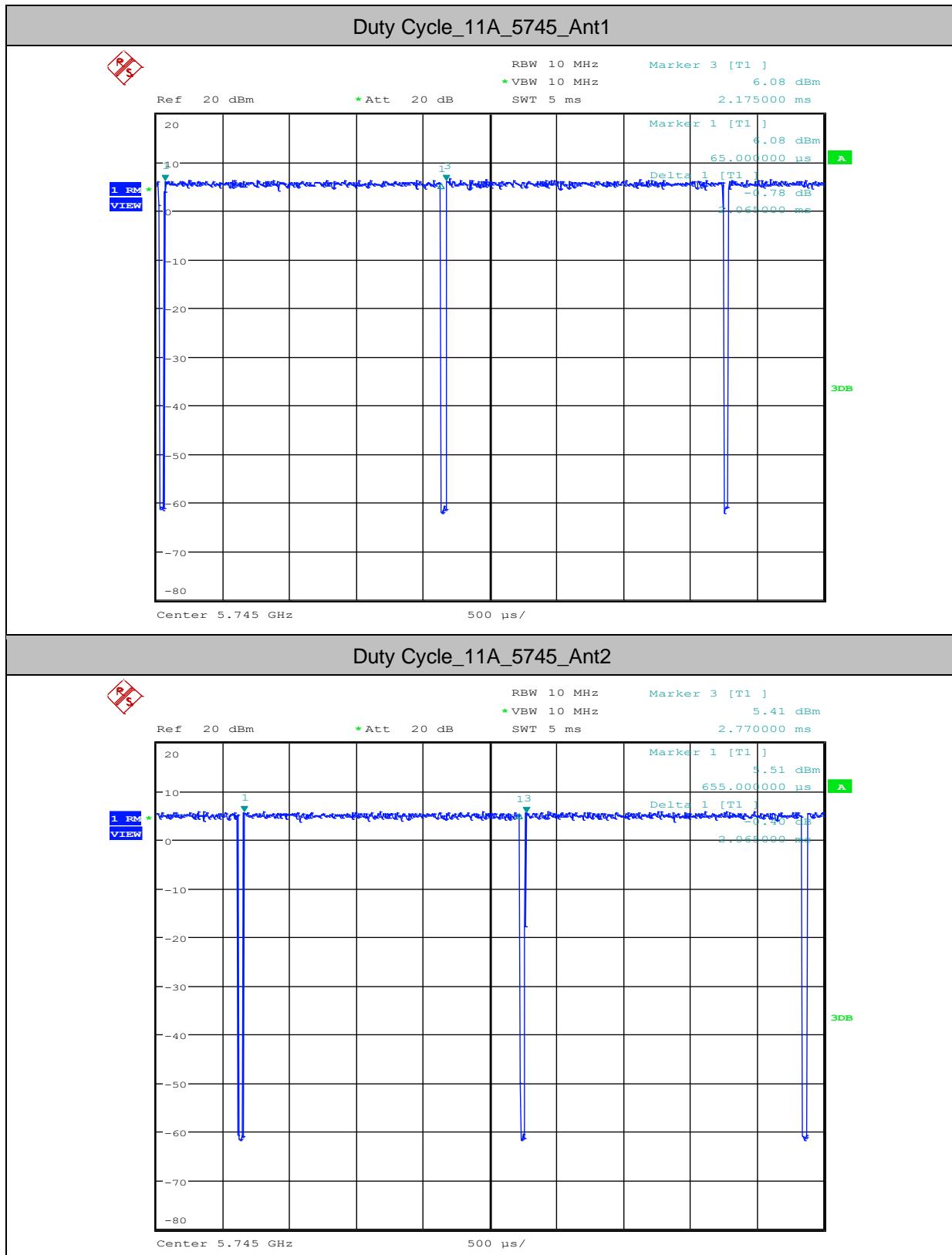
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5.Duty Cycle (x)

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	5745	Ant1	97.87	0.09
11A	5745	Ant2	97.64	0.1
11A	5785	Ant1	97.87	0.09
11A	5785	Ant2	97.87	0.09
11A	5825	Ant1	97.87	0.09
11A	5825	Ant2	97.64	0.1
11N20	5745	Ant1	97.71	0.1
11N20	5745	Ant2	97.72	0.1
11N20	5785	Ant1	97.72	0.1
11N20	5785	Ant2	97.71	0.1
11N20	5825	Ant1	97.71	0.1
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11N40	5755	Ant1	96.01	0.18
11N40	5755	Ant2	95.72	0.19
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11N40	5795	Ant2	95.72	0.19

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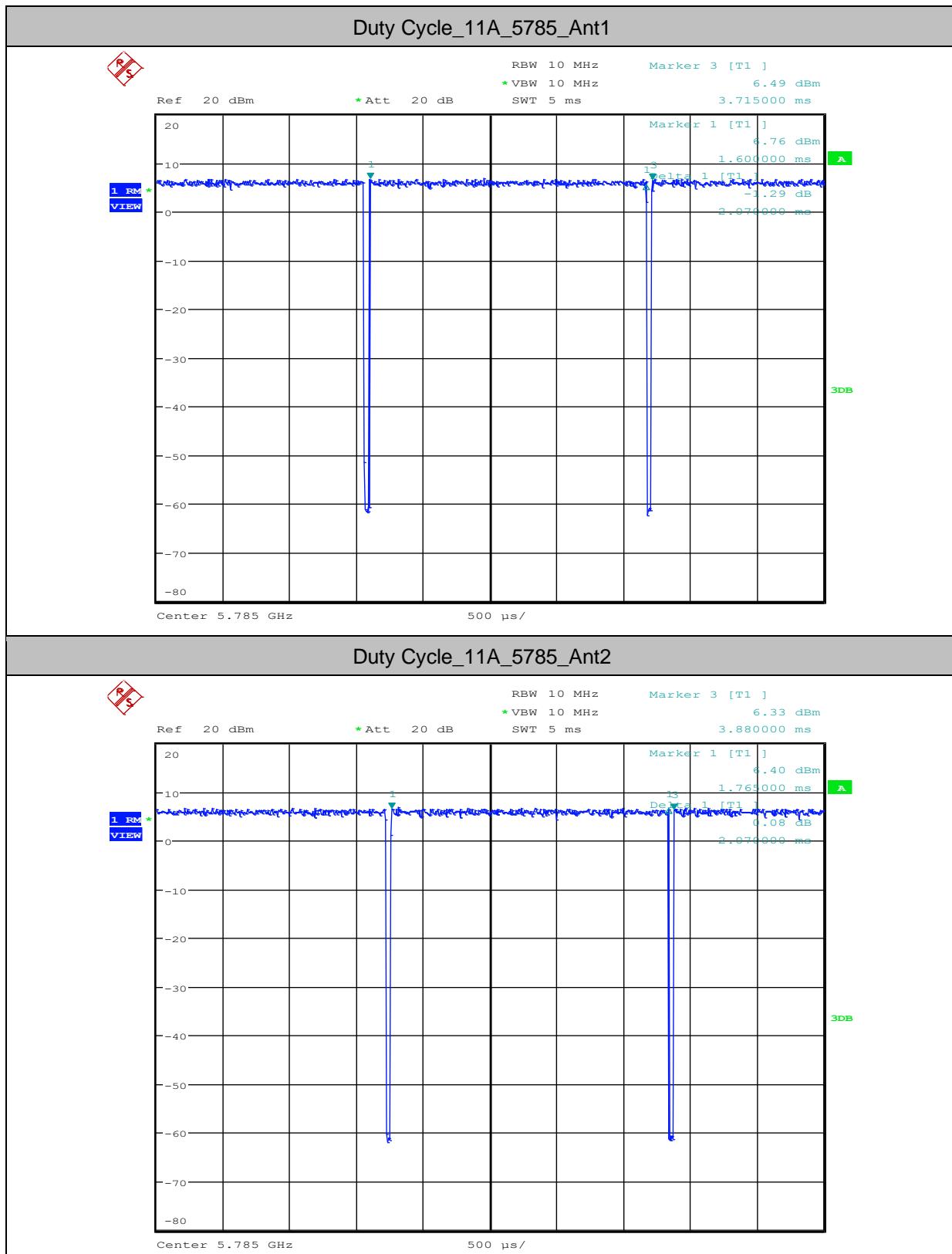
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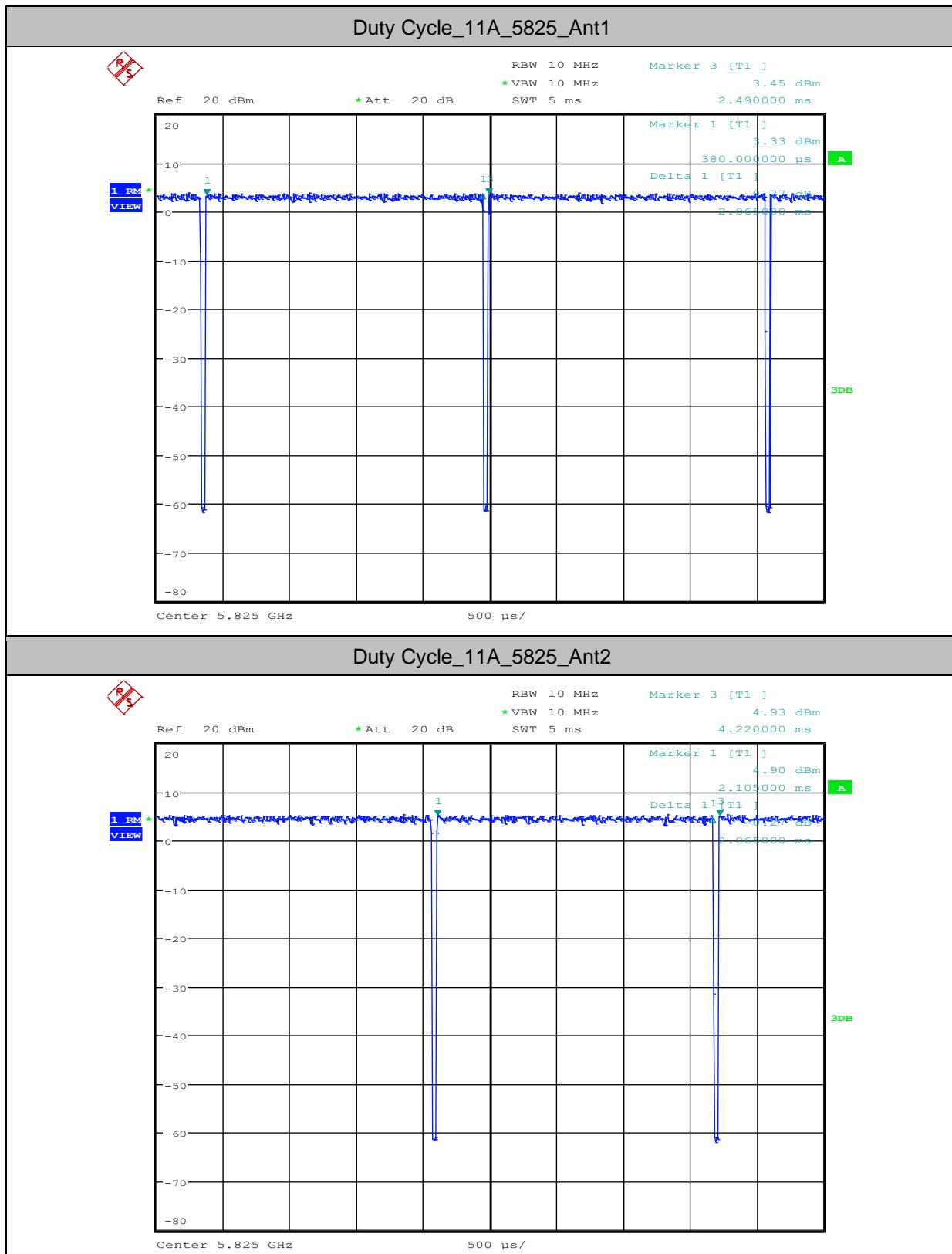
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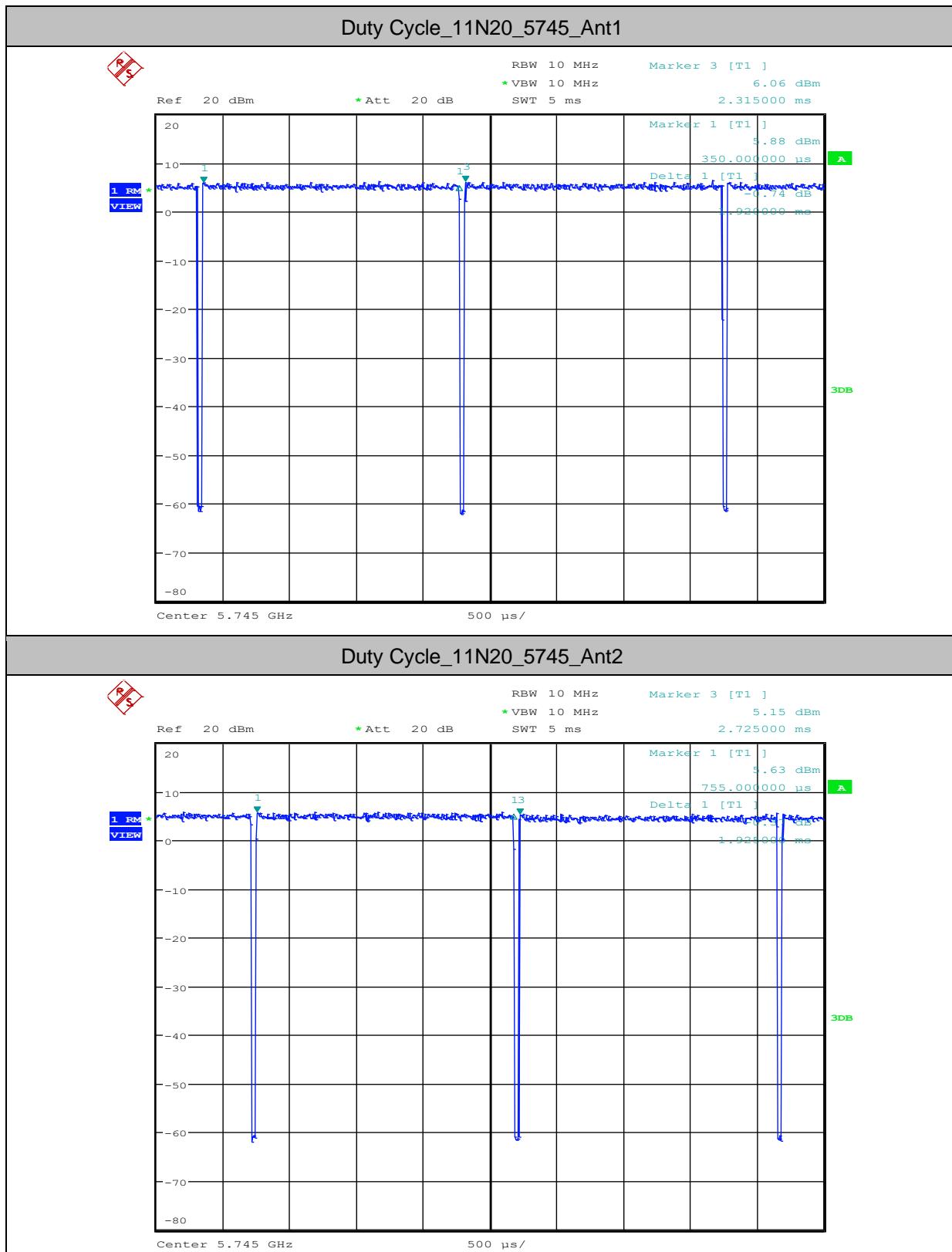


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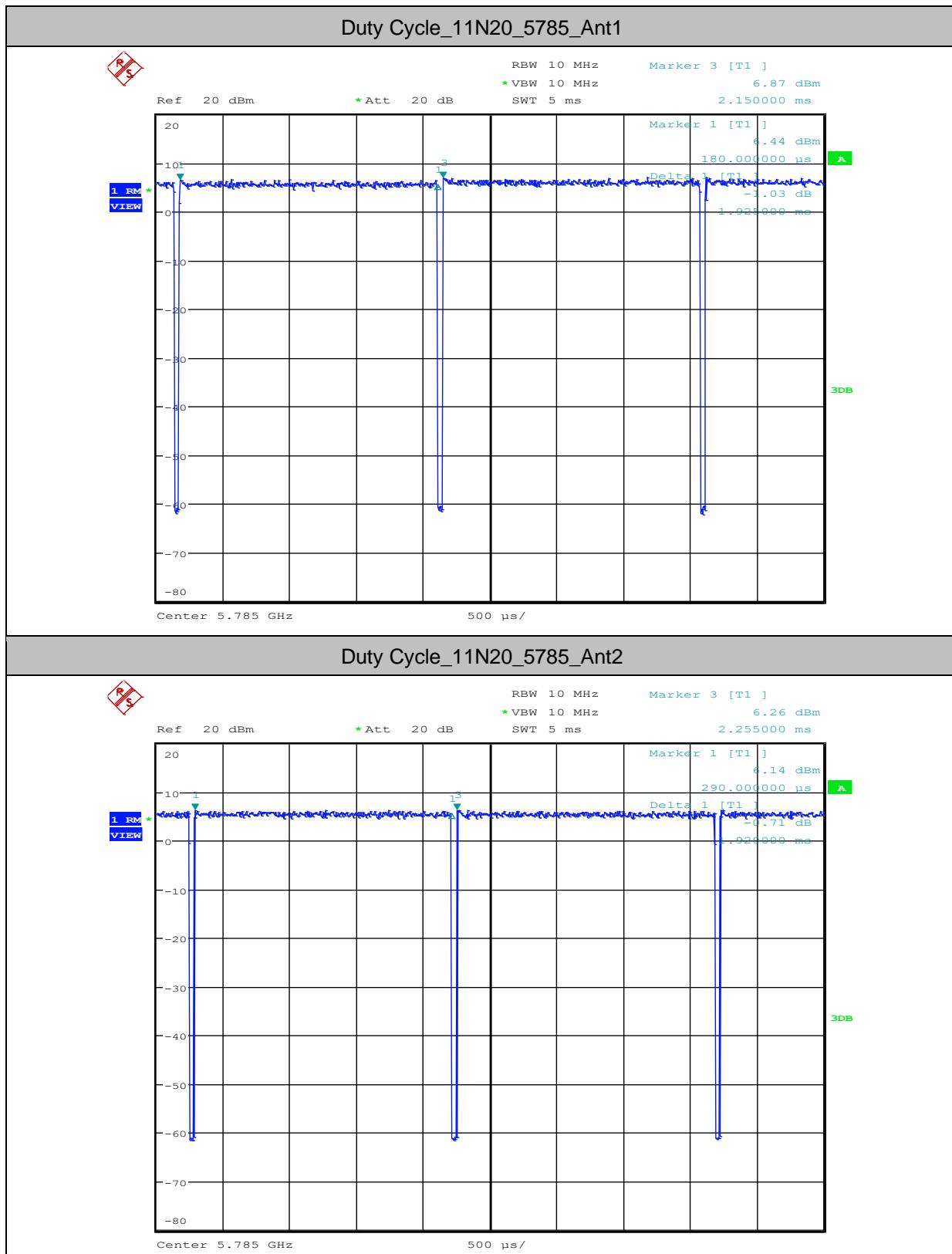
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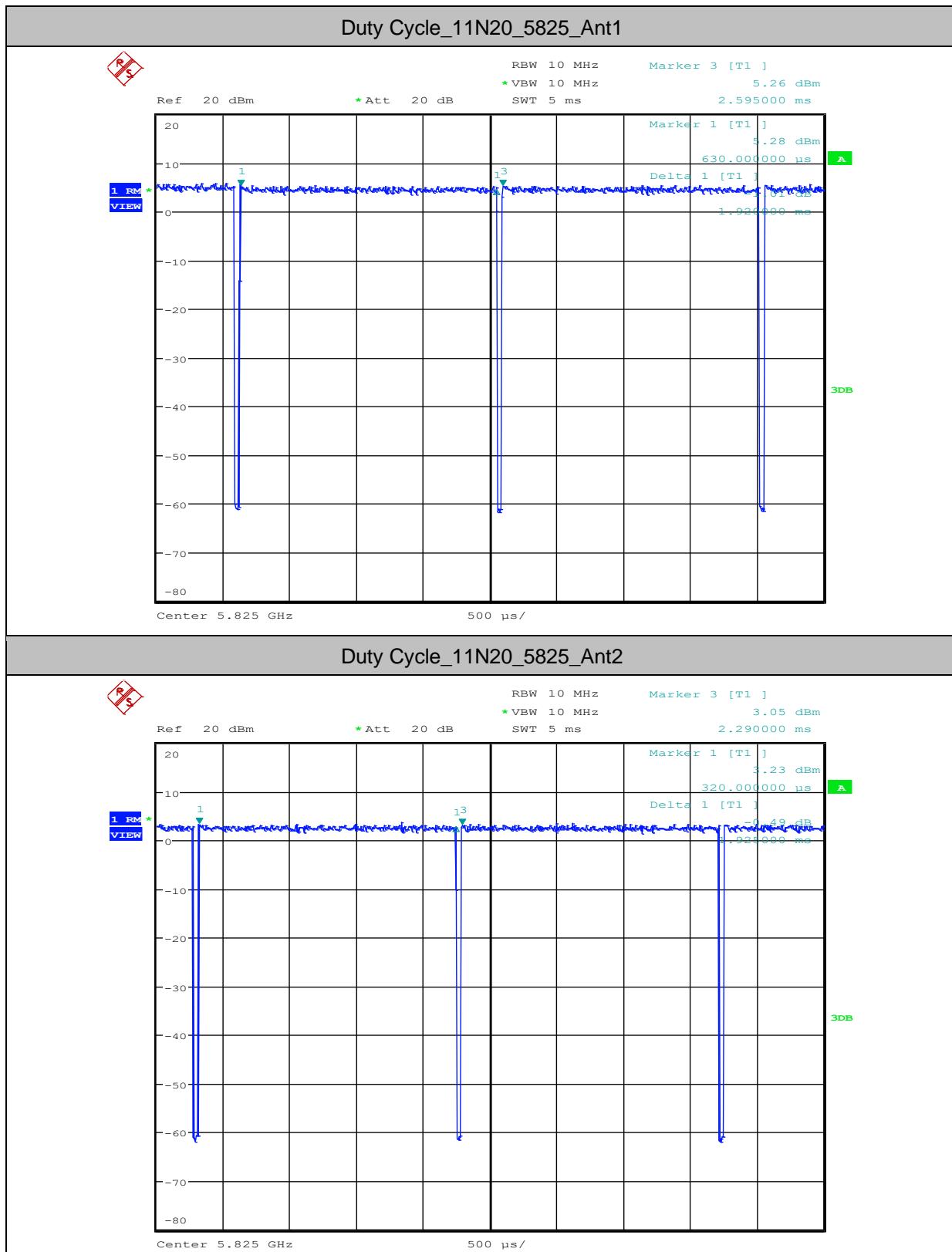
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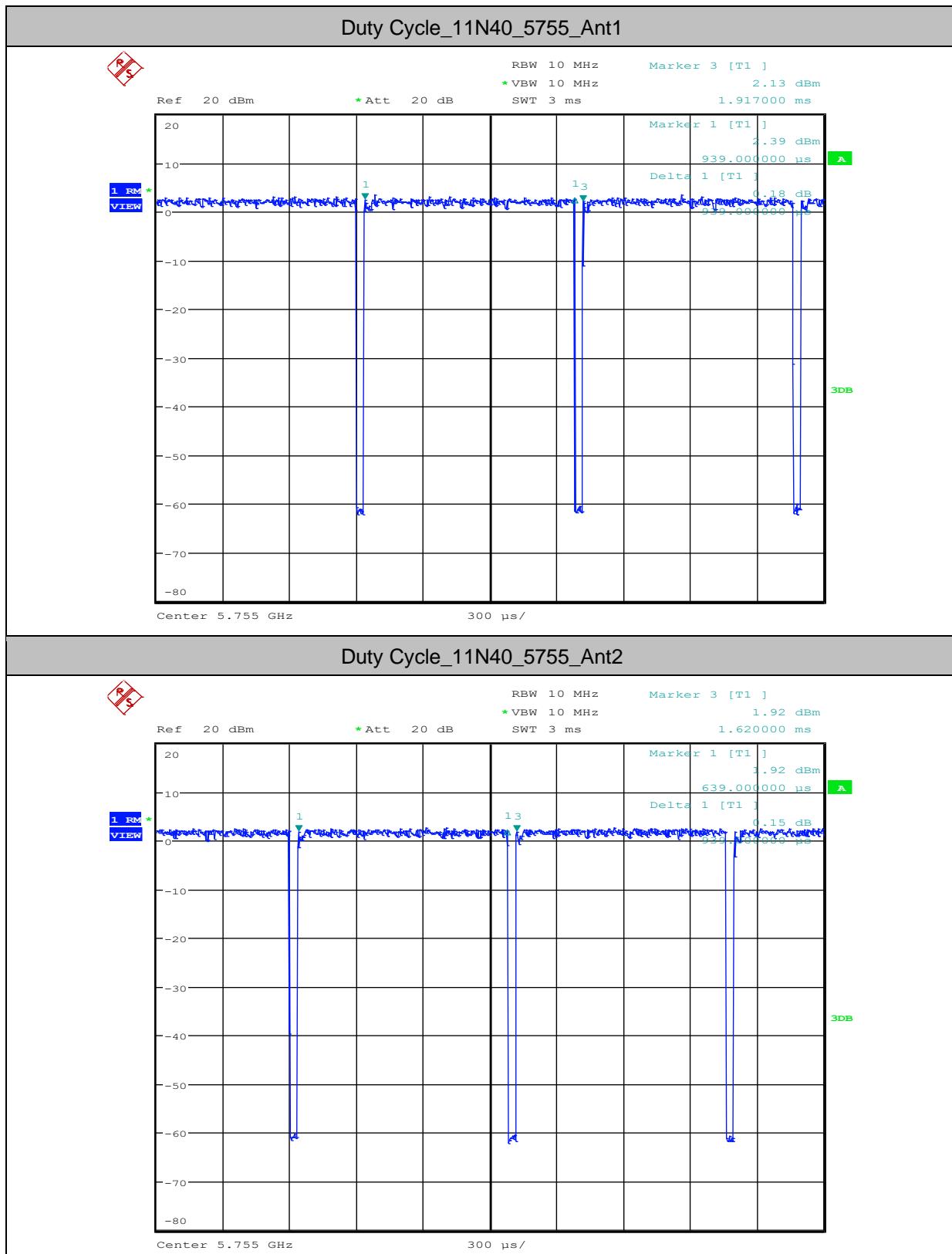
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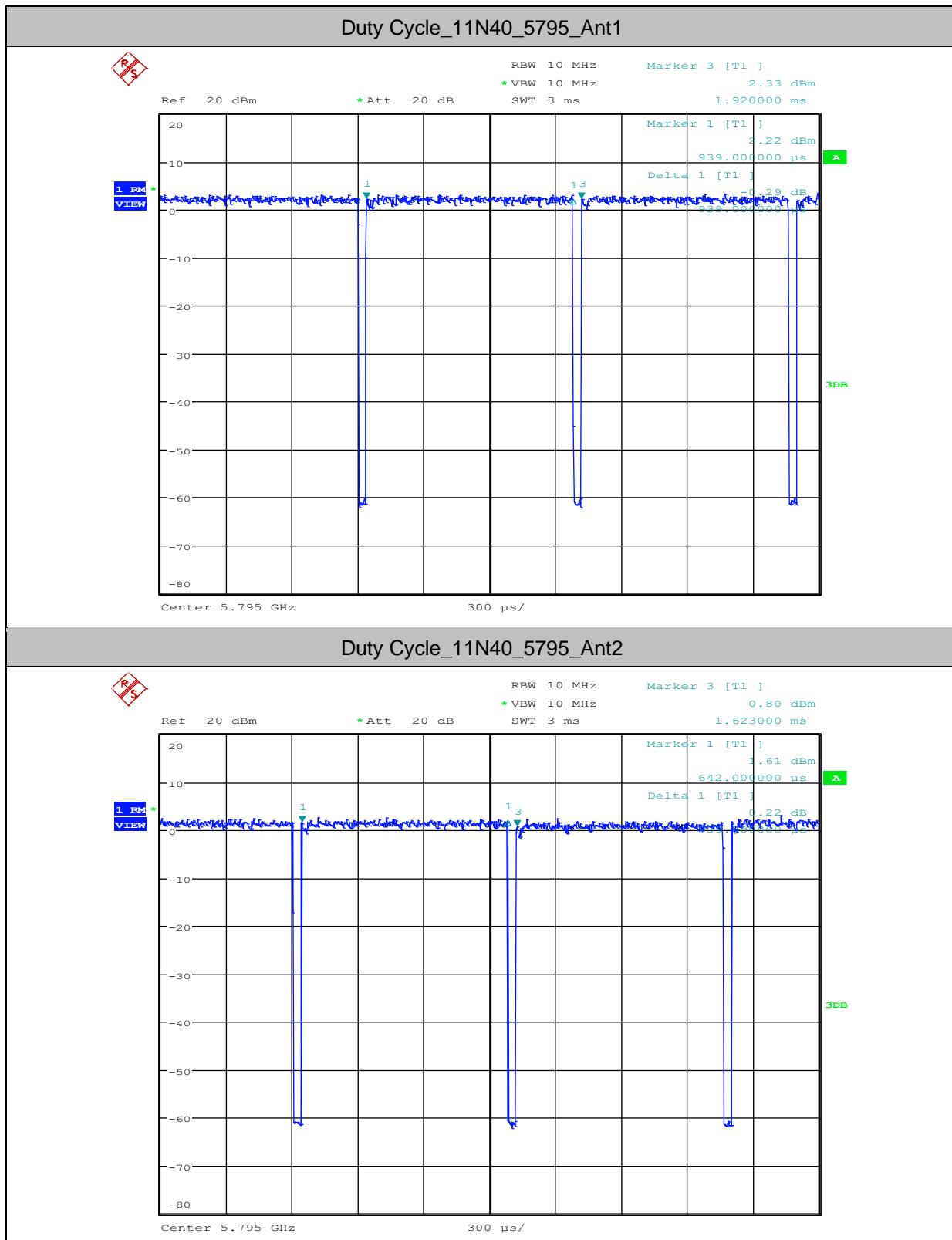
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