



FCC TEST REPORT

Application No.: ZR/2019/A0026

Applicant: Lenovo(Shanghai) Electronics Technology Co., Ltd.

Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer: Lenovo PC HK Limited

Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China

Factory: MOTOROLA (WUHAN) MOBILITY TECHNOLOGIES COMMUNICATION CO. LTD.

Address of Factory: 19 GAOXIN 4TH RD, EAST LAKE HIGH TECH ZONE, WUHAN HUBEI CHINA

EUT Description: Portable Tablet Computer

Model No.: Lenovo TB-X606F

Trade Mark: Lenovo

FCC ID: O57TBX606F

Standards:
47 CFR FCC Part 2, Subpart J
47 CFR FCC Part 15, Subpart C
47 CFR FCC Part 15, Subpart E
KDB 789033 D02 General UNII Test Procedures New Rules v02
FCC KDB 558074 D01 DTS Meas Guidance v0502
KDB 662911 D01 Multiple Transmitter Output v02r01

Test Method:
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
KDB 905462 D03 Client Without DFS New Rules v01r02
ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices

Date of Receipt: 2019/11/9

Date of Test: 2019/11/10 to 2019/12/12

Date of Issue: 2021/6/15

Test Result:	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang
Wireless Laboratory Manager



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Shenzhen Branch (Shenzhen) FCC Laboratory

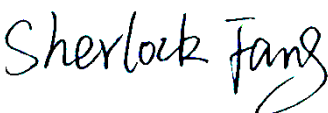
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2019/12/12		Original
01		2021/6/15	Sherlock Fang	1.Add test site Information 2. Modify data conversion error of antenna height 3.Update equipment list

*This report supersedes our previous report ZR/2019/A002603, issued on 2019-12-12, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		 (Sherlock Fang) / Engineer
Checked By		 (Jim Huang) / Reviewer



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2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result	Test Lab*
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS	A
	5250-5350	15.403(i) 15.407(a)(2)				
	5470-5725	15.403(i) 15.407(a)(2)				
6dB Emission Bandwidth	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	A
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS	A
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*Ig(EBW)} (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*Ig(EBW)} (avg during transmission)			
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)			
Maximum Power Spectral Density	5150-5250	15.407(a)(1) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	Clause 4.8	PASS	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)			
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS	B
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted:		PASS	B



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			§15.209/§7.2.5 limit (AV&PK).			
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	B
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	B
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.10	PASS	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS	B



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Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.11	PASS	A
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS	A

Remark: All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B (Test date :2019.11.18-2019.12.12) .

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

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Client Information

Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China
Factory:	MOTOROLA (WUHAN) MOBILITY TECHNOLOGIES COMMUNICATION CO. LTD.
Address of Factory:	AOXIN 4TH RD, EAST LAKE HIGH TECH ZONE, WUHAN HUBEI CHINA

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Adam Liang, Mike Hu

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang



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3.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 3816.01)

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

• VCCI

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

• FCC –Designation Number: CN1178

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

• A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• FCC –Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	Portable Tablet Computer
Model No.:	Lenovo TB-X606F
Trade Mark:	Lenovo
Hardware Version:	Lenovo Tablet TB-X606F
Software Version:	TB-X606F_RF01_191026
IEEE 802.11 WLAN Mode Supported:	☒ 802.11a (20 MHz channel bandwidth); ☒ 802.11n (20 MHz channel bandwidth); ☒ 802.11n (40 MHz channel bandwidth); ☒ 802.11ac (20 MHz channel bandwidth); ☒ 802.11ac (40 MHz channel bandwidth); ☒ 802.11ac (80 MHz channel bandwidth); ☐ 802.11ac (160 MHz channel bandwidth),
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	☐ Master ☐ Slave with radar detection ☒ Slave without radar detection
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11a/n/ac), ☐ MIMO (for 802.11n/ac), ☐ Diversity (for 802.11a) : Tx & Rx
Antenna Gain:	-2.51dBi,
Power Supply	☐ AC/DC Adapter; ☒ Battery; ☐ PoE;; ☐ Other:

Remark:

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

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



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For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
		5720
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5500
	The Highest channel	5670
		5710
IEEE 802.11ac 80MHz	The Lowest channel	5500
	The Highest channel	5580
		5690



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For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5720
		5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5710
		5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Lowest channel	5690
	The Middle channel	5775

3.5 Test Environment and Mode

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



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4 Test results and Measurement Data

4.1 Antenna Requirement

Test Requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -2.51dBi.	

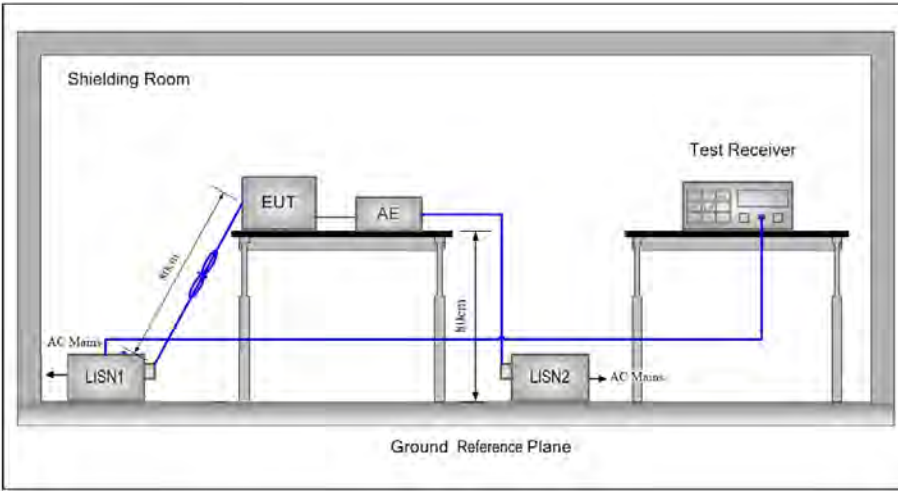
4.2 Conducted Emissions

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



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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

Measurement Data

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

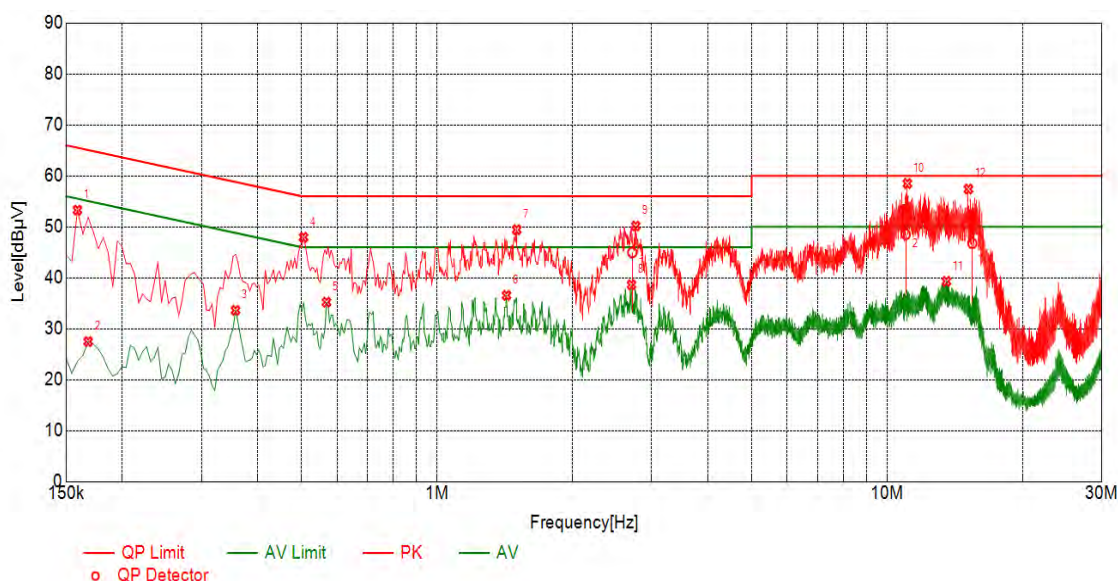
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



Test Graph

NO.	Freq.[MHz]	Level[dBμV]	Factor[dB]	Limit[dBμV]	Margin[dB]	Detector	Type
1	0.1590	53.28	10.10	65.52	12.24	PK	L
2	0.1680	27.48	10.10	55.06	27.58	AV	L
3	0.3570	33.61	10.10	48.80	15.19	AV	L
4	0.5055	47.94	10.10	56.00	8.06	PK	L
5	0.5685	35.21	10.10	46.00	10.79	AV	L
6	1.4280	36.54	10.10	46.00	9.46	AV	L
7	1.5045	49.43	10.10	56.00	6.57	PK	L
8	2.7060	38.63	10.10	46.00	7.37	AV	L
9	2.7645	50.17	10.10	56.00	5.83	PK	L
10	11.0940	58.49	10.10	60.00	1.51	PK	L
11	13.5465	39.29	10.11	50.00	10.71	AV	L
12	15.1620	57.40	10.11	60.00	2.60	PK	L



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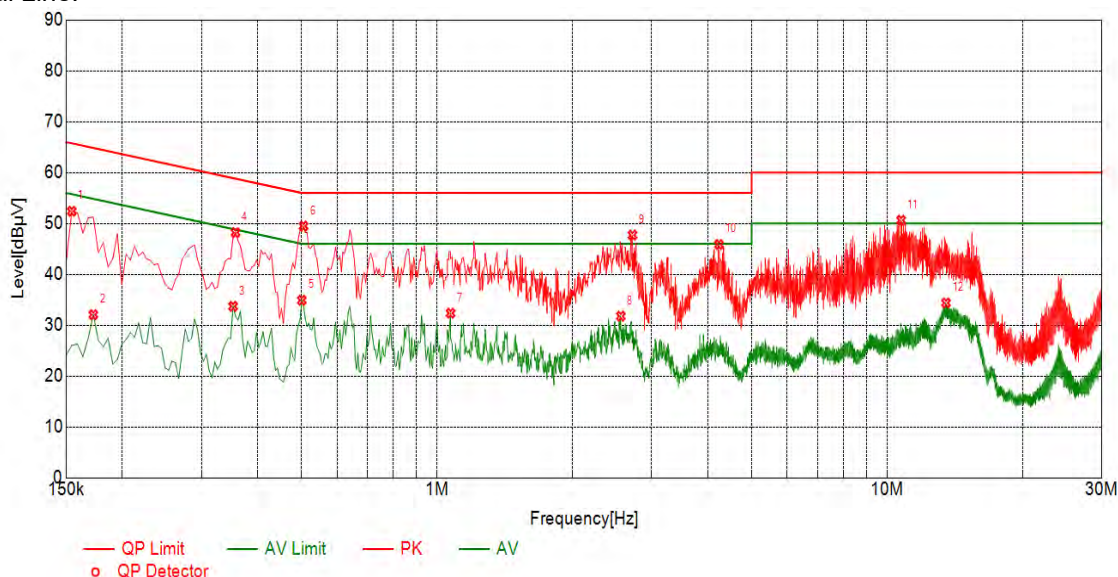
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Neutral Line:



Test Graph

Suspected List							
NO.	Freq.[MHz]	Level[dBμV]	Factor[dB]	Limit[dBμV]	Margin[dB]	Detector	Type
1	0.1545	52.40	10.10	65.75	13.35	PK	N
2	0.1725	32.06	10.10	54.84	22.78	AV	N
3	0.3525	33.71	10.10	48.90	15.19	AV	N
4	0.3570	48.19	10.10	58.80	10.61	PK	N
5	0.5010	34.90	10.10	46.00	11.10	AV	N
6	0.5055	49.48	10.10	56.00	6.52	PK	N
7	1.0725	32.36	10.10	46.00	13.64	AV	N
8	2.5620	31.78	10.10	46.00	14.22	AV	N
9	2.7195	47.71	10.10	56.00	8.29	PK	N
10	4.2315	45.85	10.10	56.00	10.15	PK	N
11	10.7475	50.63	10.10	60.00	9.37	PK	N
12	13.5195	34.38	10.11	50.00	15.62	AV	N

Remarks:

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



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4.3 Duty Cycle

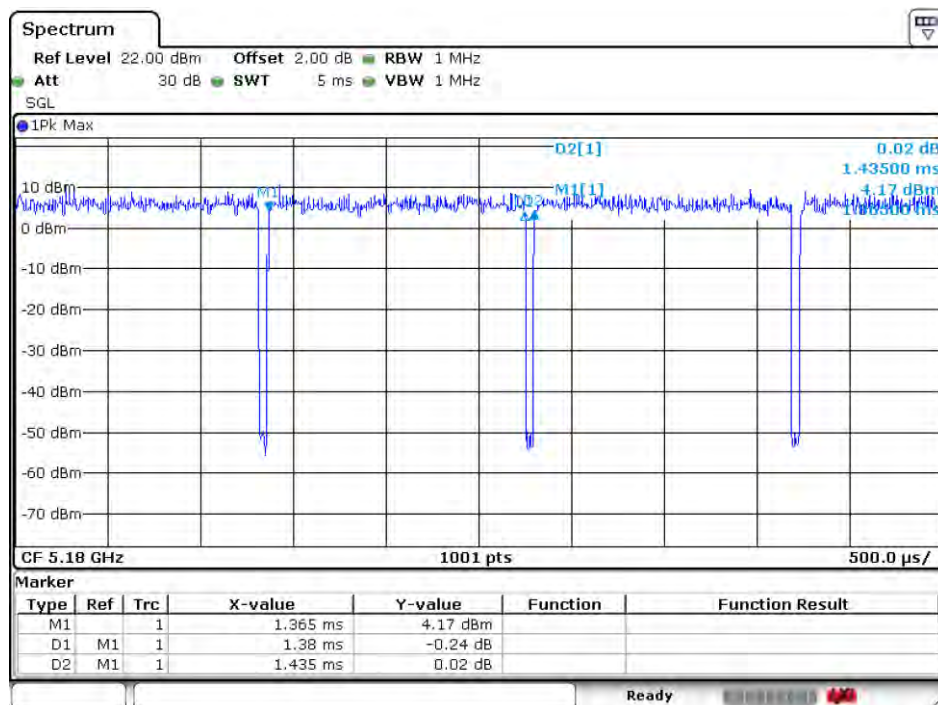
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11A	Ant 1: CH149, CH157, CH165	96.17
11N20	Ant 1: CH149, CH157, CH165	95.56
11N40	Ant 1: CH151, CH159	92.21
11AC20	Ant 1: CH149, CH157, CH165	95.59
11AC40	Ant 1: CH151, CH159	93.56
11AC80	Ant 1: CH155	88.08

4.3.1 Test Plots

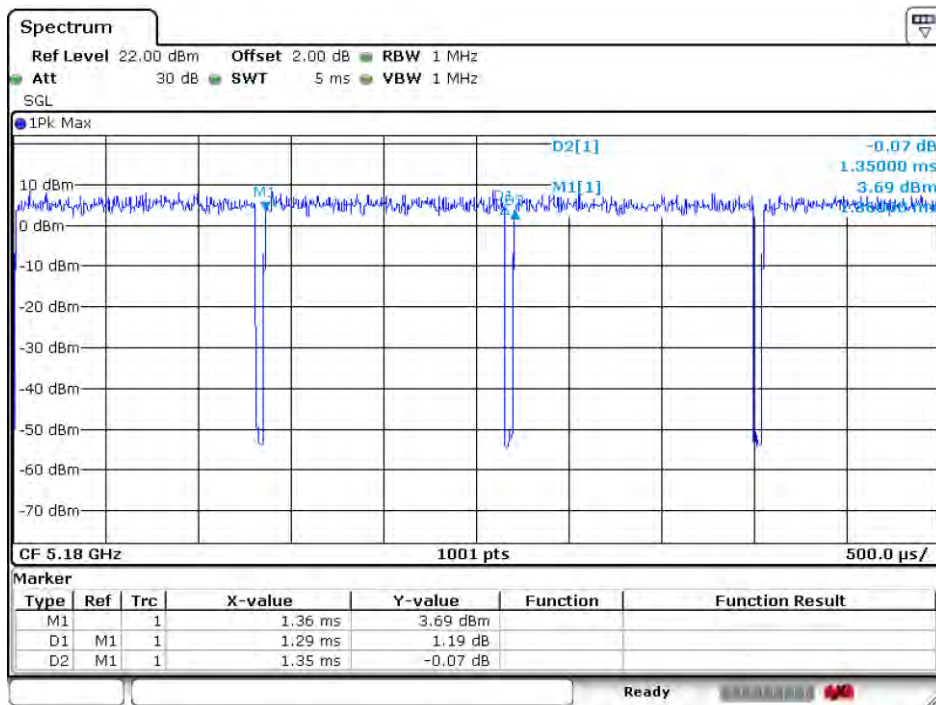
4.3.1.1 ANT1

4.3.1.1.1 11A



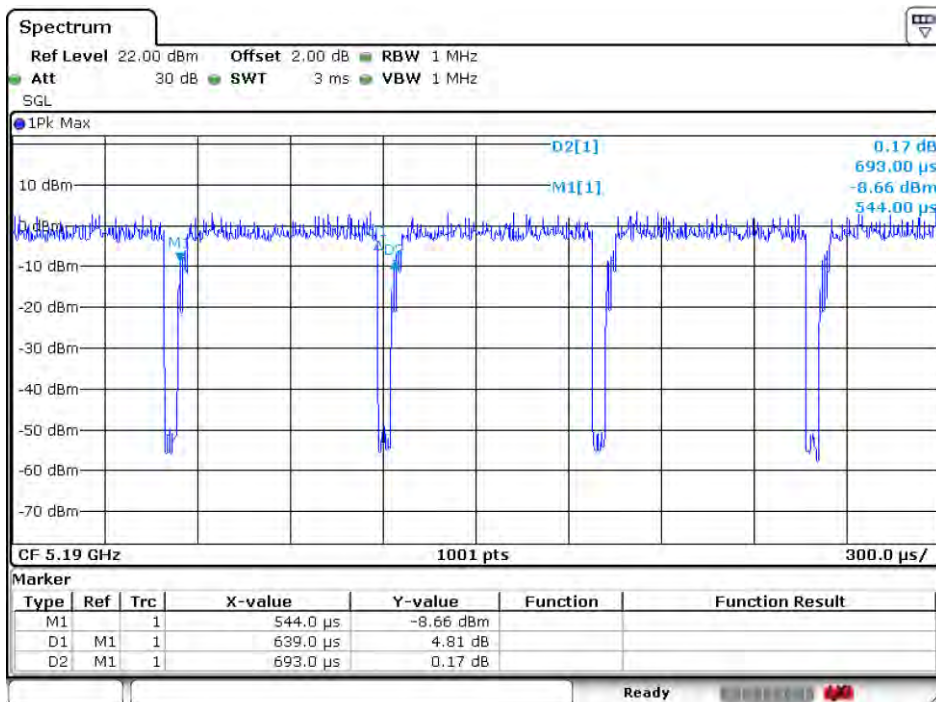
Date: 1.NOV.2019 04:19:40

4.3.1.1.2 11N20



Date: 1.NOV.2019 04:21:55

4.3.1.1.3 11N40



Date: 1.NOV.2019 04:43:09



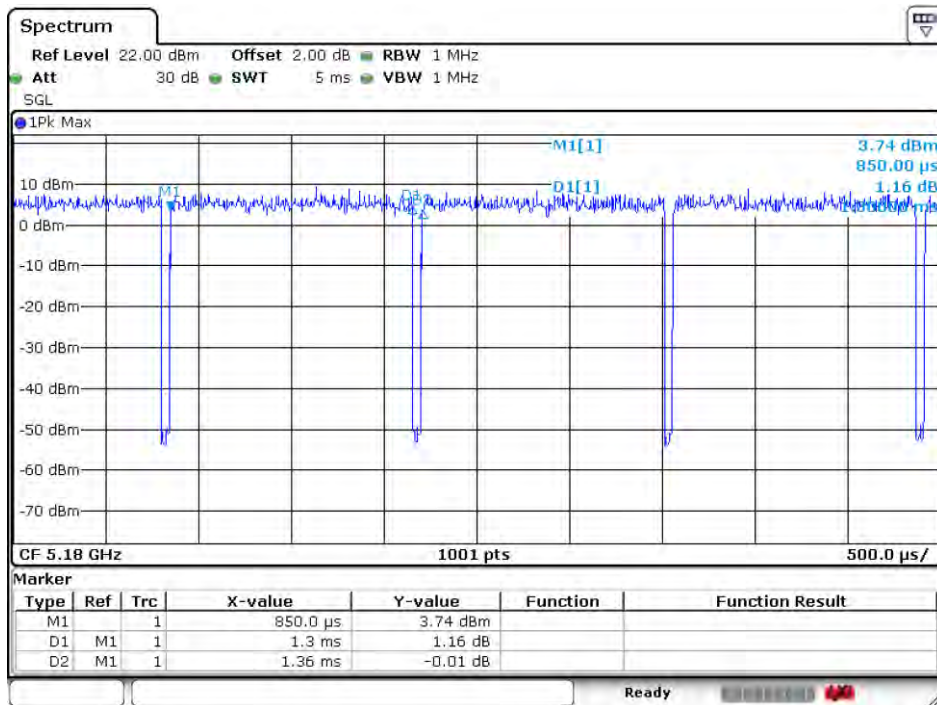
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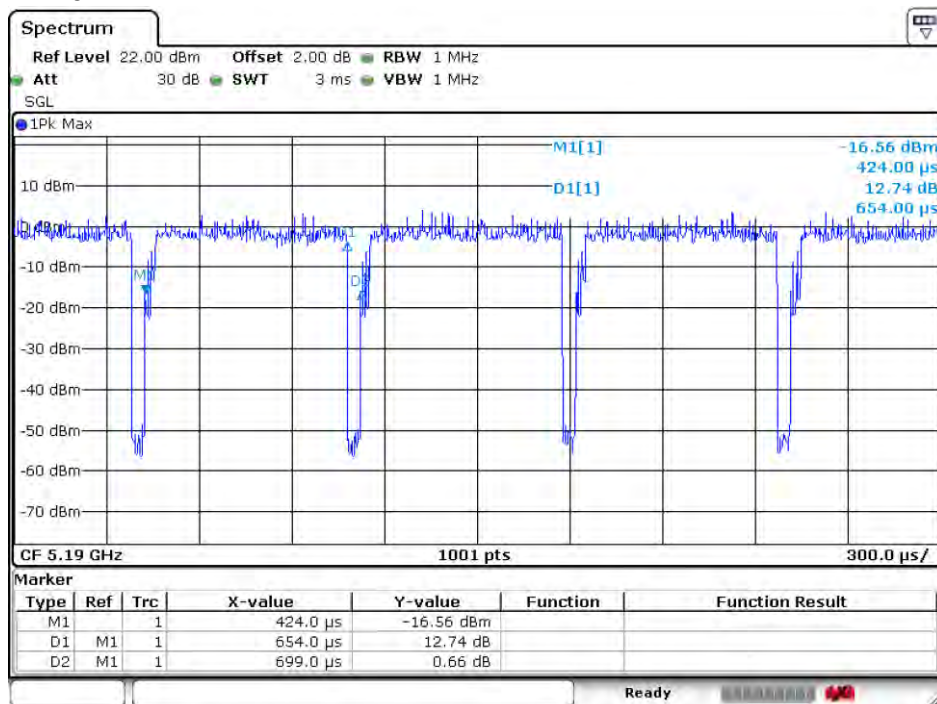
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4.3.1.1.4 11AC20



Date: 1.NOV.2019 04:20:35

4.3.1.1.5 11AC40



Date: 1.NOV.2019 04:42:03

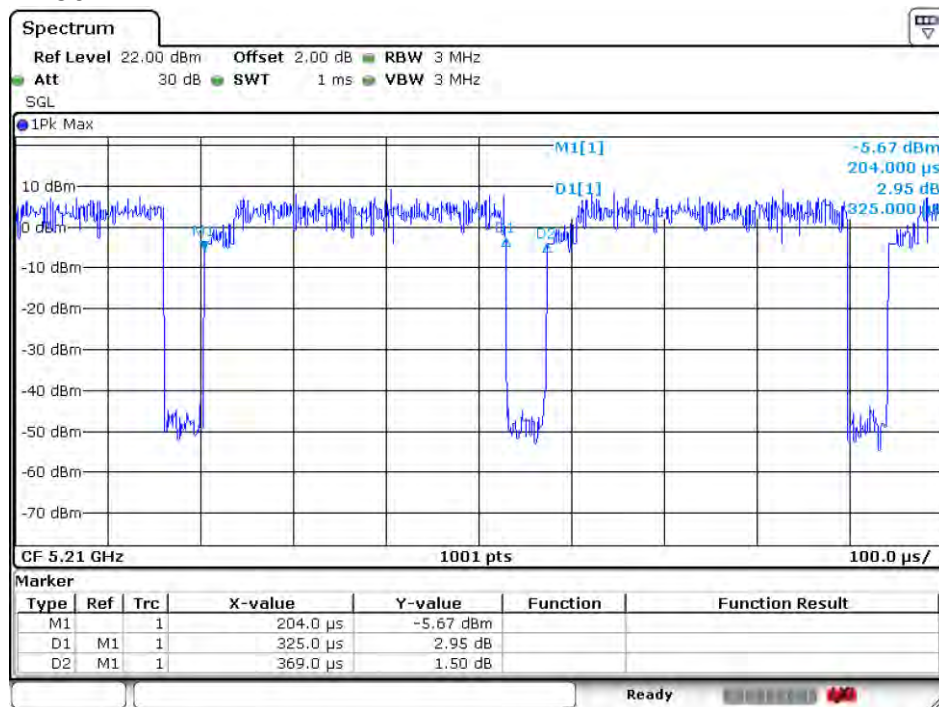


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4.3.1.1.6 11AC80



Date: 1.NOV.2019 04:44:21



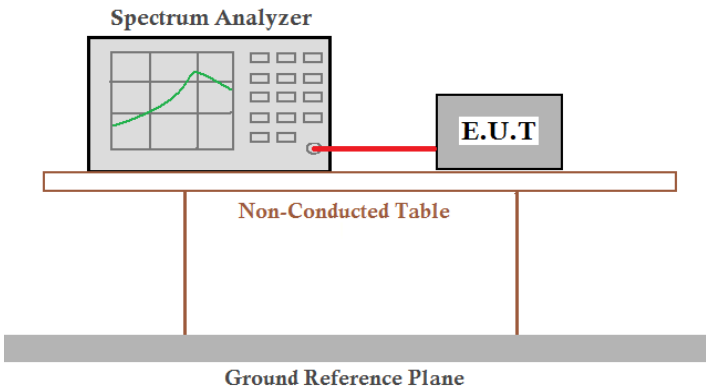
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find that 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	





4.4.1 Test Results for Conducted Output Power

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A20	36	5180	ANT 1	15.26	12.75	PASS
	48	5240	ANT 1	15.22	12.71	PASS
	52	5260	ANT 1	15.22	12.71	PASS
	64	5320	ANT 1	14.82	12.31	PASS
	100	5500	ANT 1	15.4	12.89	PASS
	140	5700	ANT 1	14.62	12.11	PASS
	144(BandII-C)	5720	ANT 1	14.20	11.69	PASS
	144(BandIII)	5720	ANT 1	6.69	4.18	PASS
	149	5745	ANT 1	14.65	12.14	PASS
	165	5825	ANT 1	14.72	12.21	PASS
11N20	36	5180	ANT 1	15.07	12.56	PASS
	48	5240	ANT 1	15.04	12.53	PASS
	52	5260	ANT 1	14.6	12.09	PASS
	64	5320	ANT 1	14.74	12.23	PASS
	100	5500	ANT 1	14.74	12.23	PASS
	140	5700	ANT 1	14.53	12.02	PASS
	144(BandII-C)	5720	ANT 1	14.14	11.63	PASS
	144(BandIII)	5720	ANT 1	6.91	4.40	PASS
	149	5745	ANT 1	14.5	11.99	PASS
	165	5825	ANT 1	14.57	12.06	PASS
11N40	38	5190	ANT 1	14.67	12.16	PASS
	46	5230	ANT 1	13.99	11.48	PASS
	54	5270	ANT 1	14	11.49	PASS
	62	5310	ANT 1	14.12	11.61	PASS
	102	5510	ANT 1	14.24	11.73	PASS
	134	5670	ANT 1	13.92	11.41	PASS
	142(BandII-C)	5710	ANT 1	14.13	11.62	PASS
	142(BandIII)	5710	ANT 1	1.56	-0.95	PASS
	151	5755	ANT 1	14.03	11.52	PASS

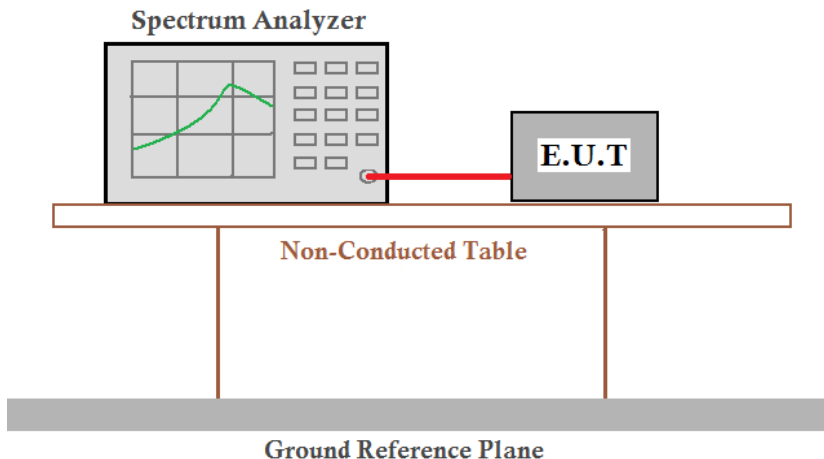




	159	5795	ANT 1	14	11.49	PASS
11AC20	36	5180	ANT 1	15.09	12.58	PASS
	48	5240	ANT 1	14.57	12.06	PASS
	52	5260	ANT 1	14.57	12.06	PASS
	64	5320	ANT 1	14.62	12.11	PASS
	100	5500	ANT 1	14.62	12.11	PASS
	140	5700	ANT 1	14.46	11.95	PASS
	144(BandII-C)	5720	ANT 1	14.00	11.49	PASS
	144(BandIII)	5720	ANT 1	6.94	4.43	PASS
	149	5745	ANT 1	14.68	12.17	PASS
	165	5825	ANT 1	14.54	12.03	PASS
11AC40	38	5190	ANT 1	15.14	12.63	PASS
	46	5230	ANT 1	14.96	12.45	PASS
	54	5270	ANT 1	15.05	12.54	PASS
	62	5310	ANT 1	15.05	12.54	PASS
	102	5510	ANT 1	15	12.49	PASS
	134	5670	ANT 1	14.81	12.3	PASS
	142(BandII-C)	5710	ANT 1	14.08	11.57	PASS
	142(BandIII)	5710	ANT 1	1.53	-0.98	PASS
	151	5755	ANT 1	14.76	12.25	PASS
	159	5795	ANT 1	14.81	12.3	PASS
11AC80	42	5210	ANT 1	13.8	11.29	PASS
	58	5290	ANT 1	13.78	11.27	PASS
	106	5530	ANT 1	14.11	11.6	PASS
	138	5690	ANT 1	13.74	11.23	PASS
	138(BandII-C)	5690	ANT 1	12.81	10.30	PASS
	138(BandIII)	5690	ANT 1	-2.95	-5.46	PASS
	155	5775	ANT 1	13.69	11.18	PASS



4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass



4.5.1 Test Results for 26dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	20.14	PASS
	48	5240	ANT 1	20.28	PASS
	52	5260	ANT 1	20.28	PASS
	64	5320	ANT 1	20.13	PASS
	100	5500	ANT 1	21.72	PASS
	140	5700	ANT 1	20.19	PASS
	144	5720	ANT 1	15.79	PASS
11N20	36	5180	ANT 1	20.64	PASS
	48	5240	ANT 1	20.85	PASS
	52	5260	ANT 1	20.61	PASS
	64	5320	ANT 1	20.49	PASS
	100	5500	ANT 1	20.46	PASS
	140	5700	ANT 1	20.37	PASS
	144	5720	ANT 1	15.99	PASS
11N40	38	5190	ANT 1	40.74	PASS
	46	5230	ANT 1	40.86	PASS
	54	5270	ANT 1	40.62	PASS
	62	5310	ANT 1	41.22	PASS
	102	5510	ANT 1	40.62	PASS
	134	5670	ANT 1	40.8	PASS
	142	5710	ANT 1	35.38	PASS
11AC20	36	5180	ANT 1	20.55	PASS
	48	5240	ANT 1	20.64	PASS
	52	5260	ANT 1	20.43	PASS
	64	5320	ANT 1	20.52	PASS
	100	5500	ANT 1	20.7	PASS
	140	5700	ANT 1	21.99	PASS
	144	5720	ANT 1	15.75	PASS
11AC40	38	5190	ANT 1	40.68	PASS
	46	5230	ANT 1	41.04	PASS
	54	5270	ANT 1	40.68	PASS
	62	5310	ANT 1	40.8	PASS
	102	5510	ANT 1	41.82	PASS
	134	5670	ANT 1	40.8	PASS
	142	5710	ANT 1	35.3	PASS
11AC80	42	5210	ANT 1	81.28	PASS



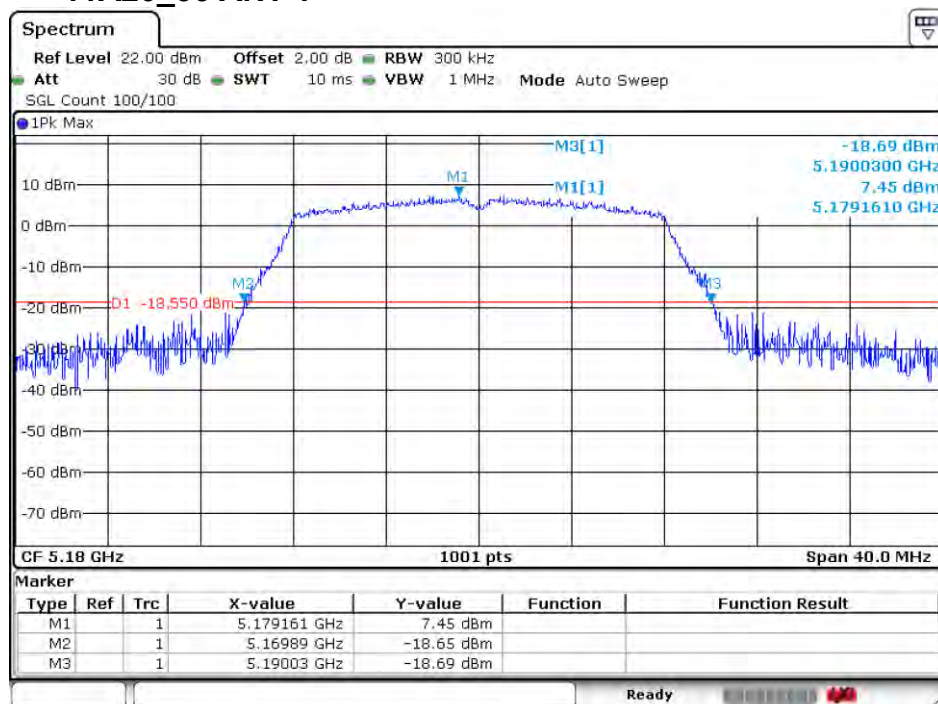
	58	5290	ANT 1	81.44	PASS
	106	5530	ANT 1	81.6	PASS
	138	5690	ANT 1	75.76	PASS

4.5.2

Plots for 26dB Emission Bandwidth

4.5.2.1

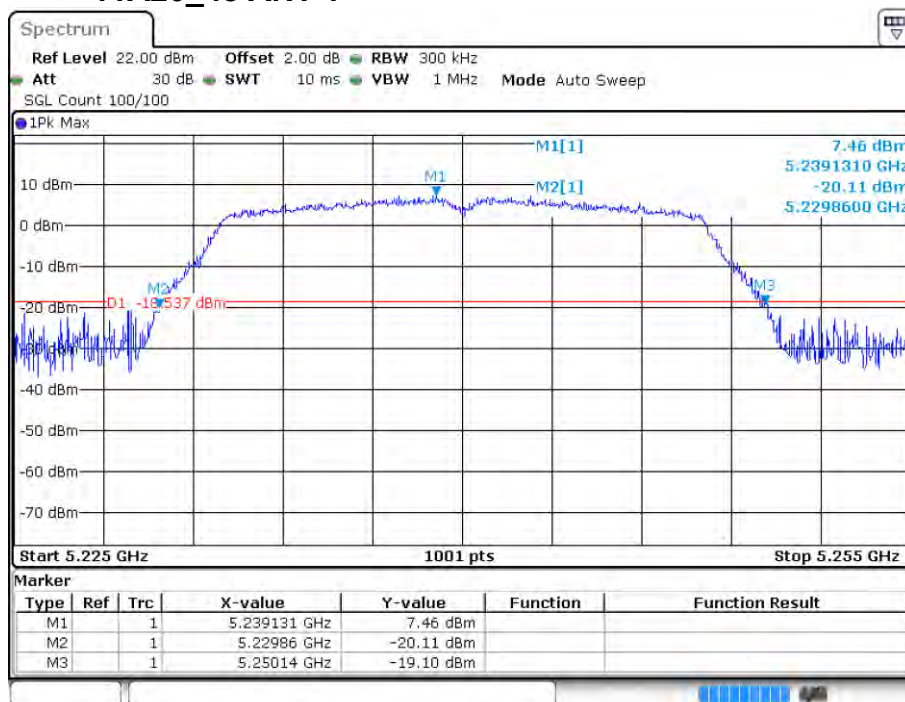
11A20_36 ANT 1



Date: 15.NOV.2019 19:34:50

4.5.2.2

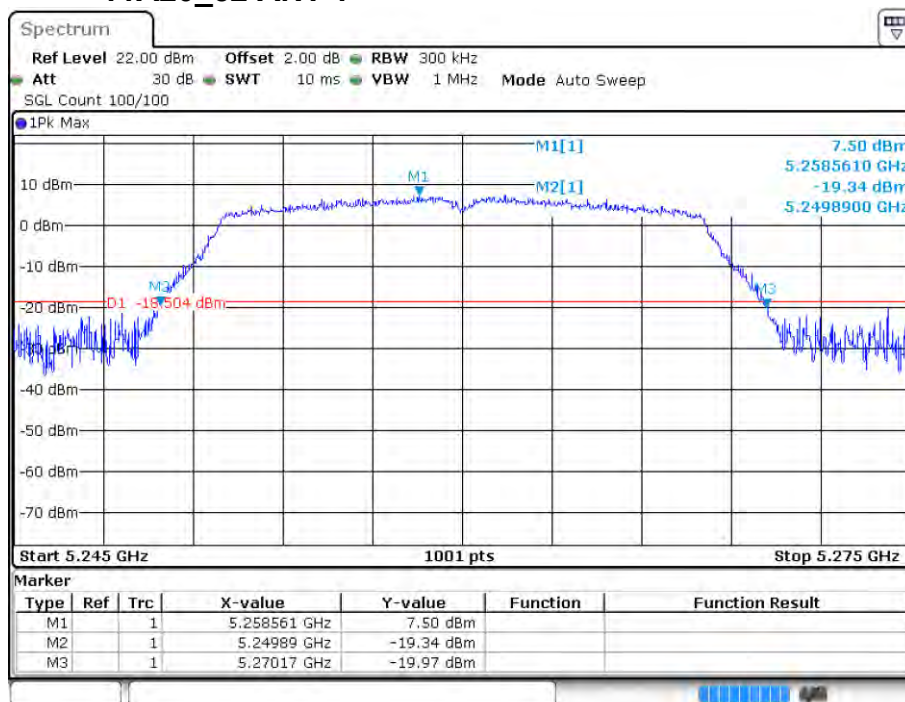
11A20_48 ANT 1



Date: 2.NOV.2019 00:27:20

4.5.2.3

11A20_52 ANT 1

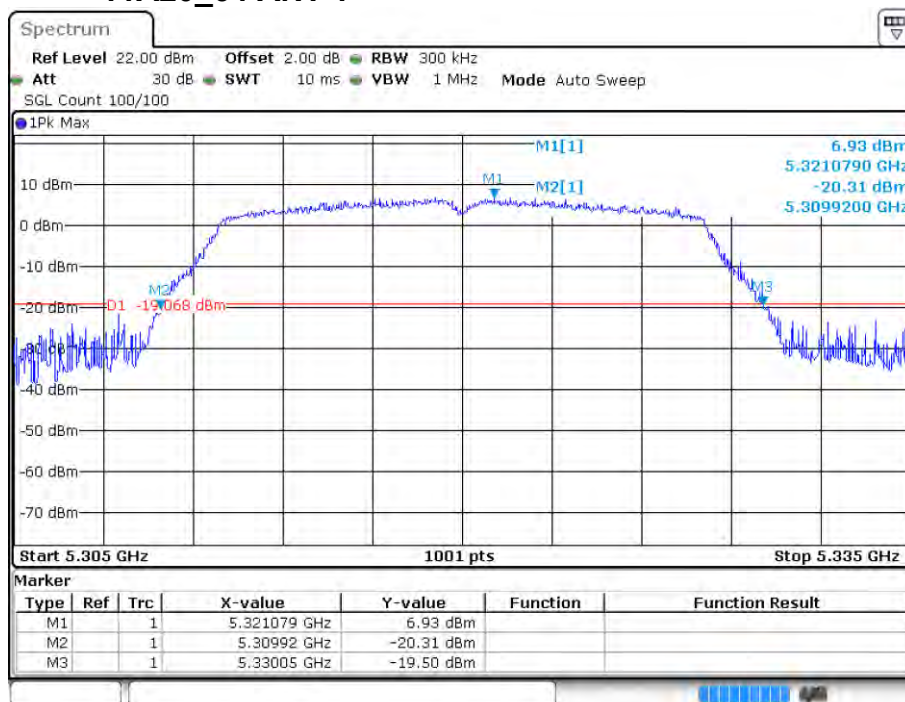


Date: 2.NOV.2019 00:28:29



4.5.2.4

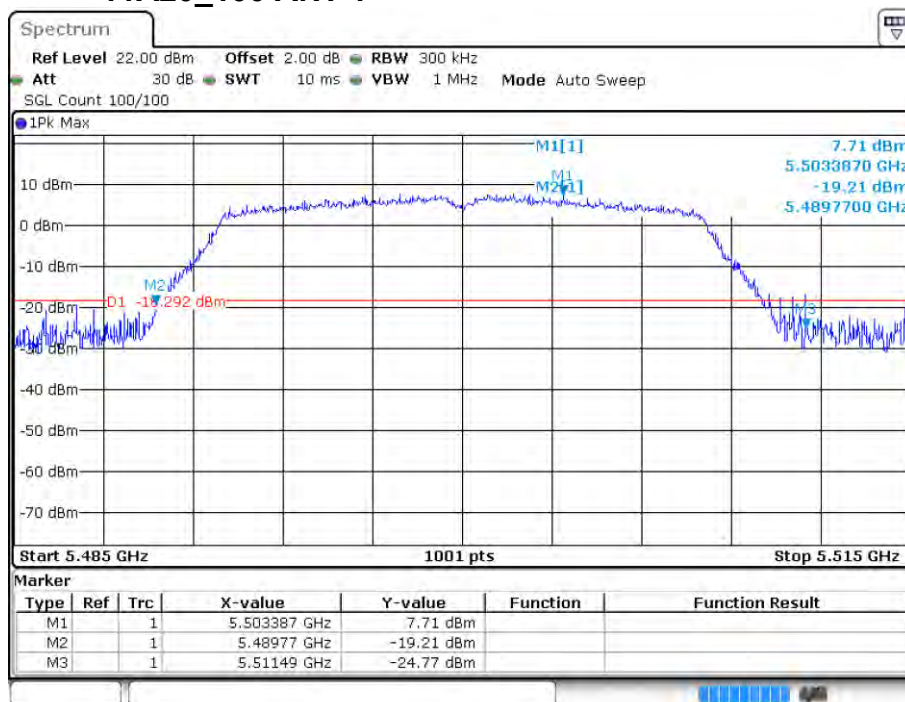
11A20_64 ANT 1



Date: 2.NOV.2019 00:29:23

4.5.2.5

11A20_100 ANT 1

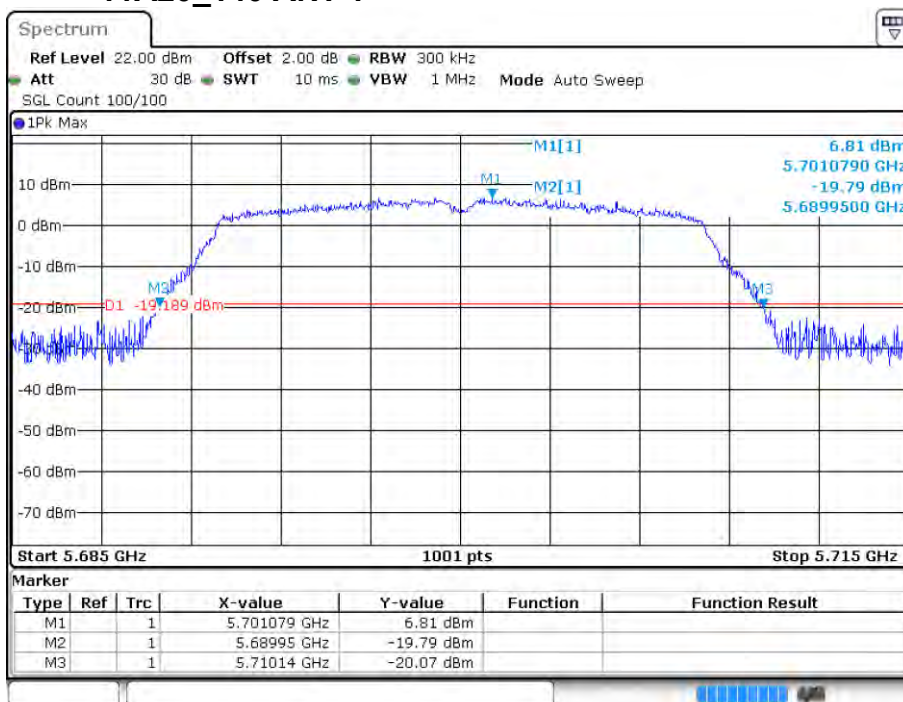


Date: 2.NOV.2019 00:31:18



4.5.2.6

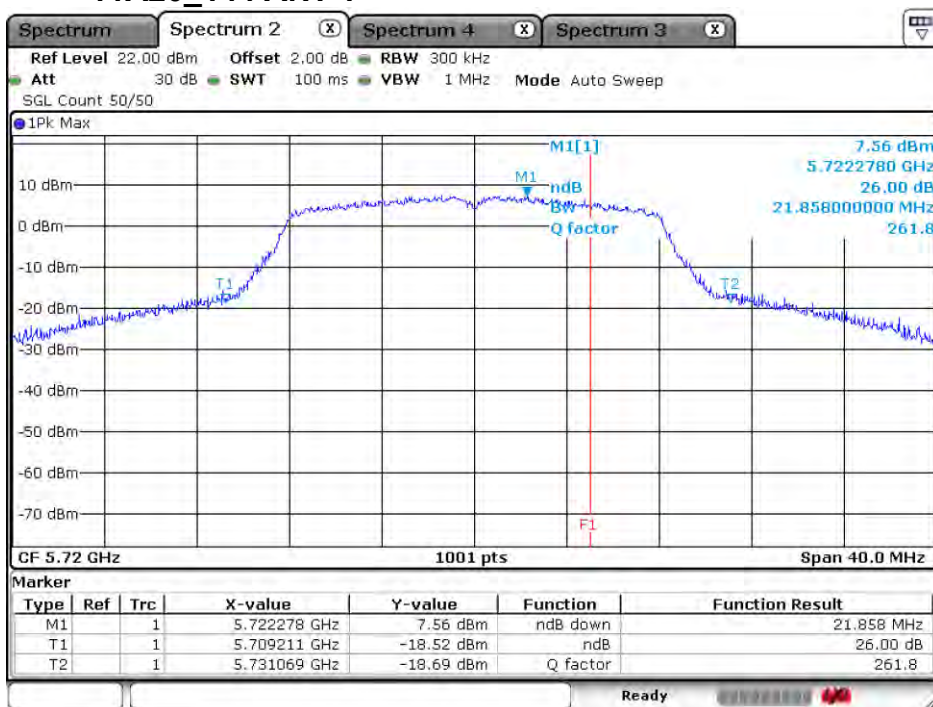
11A20_140 ANT 1



Date: 2.NOV.2019 00:32:40

4.5.2.7

11A20_144 ANT 1

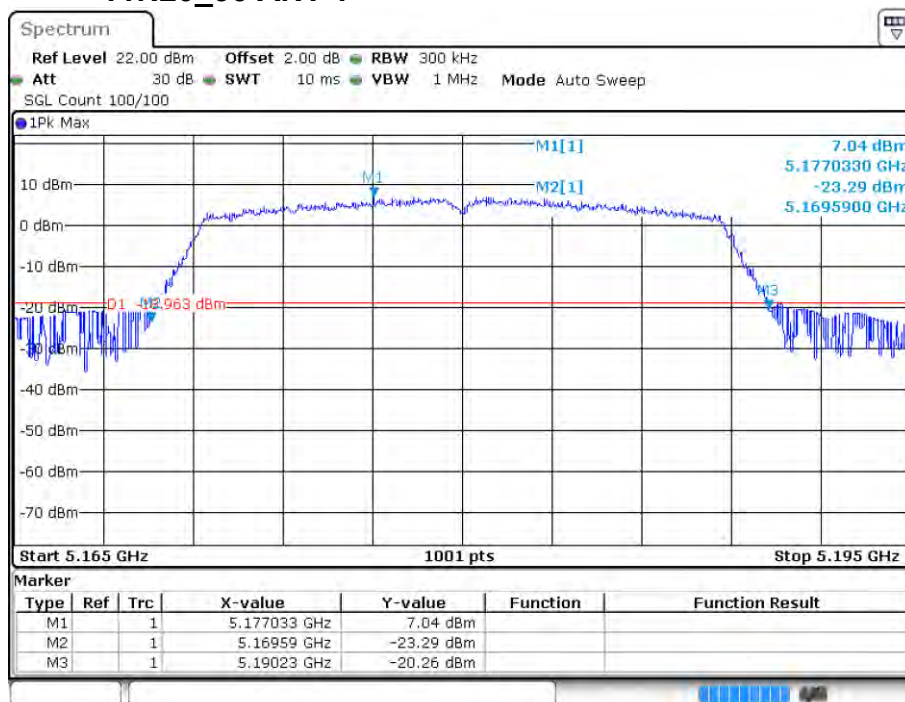


Date: 14.DEC.2019 03:39:26



4.5.2.8

11N20_36 ANT 1



Date: 2.NOV.2019 00:39:24

4.5.2.9

11N20_48 ANT 1

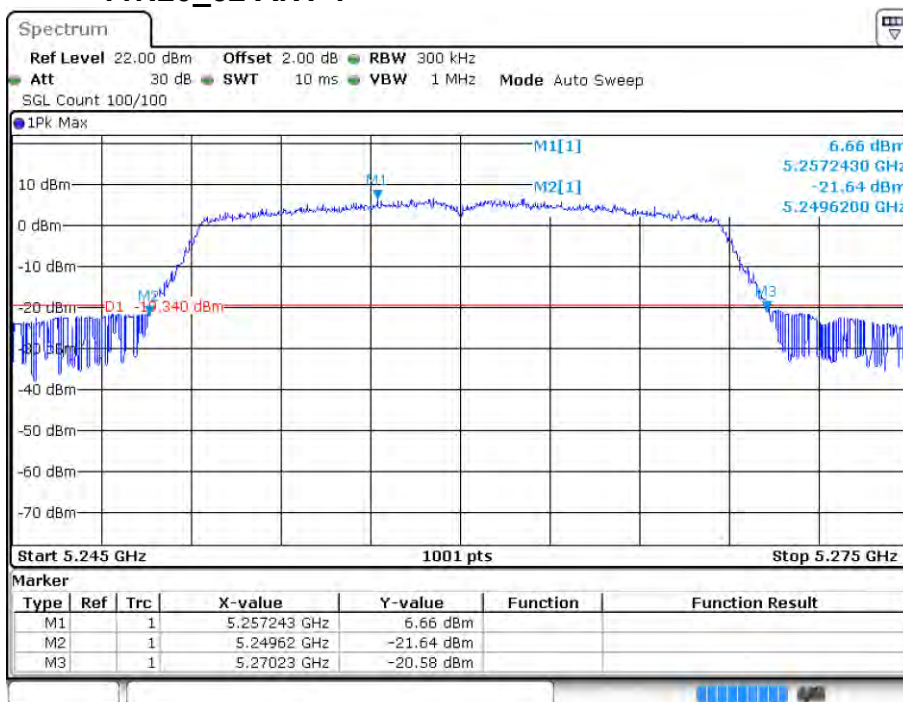


Date: 2.NOV.2019 00:40:18



4.5.2.10

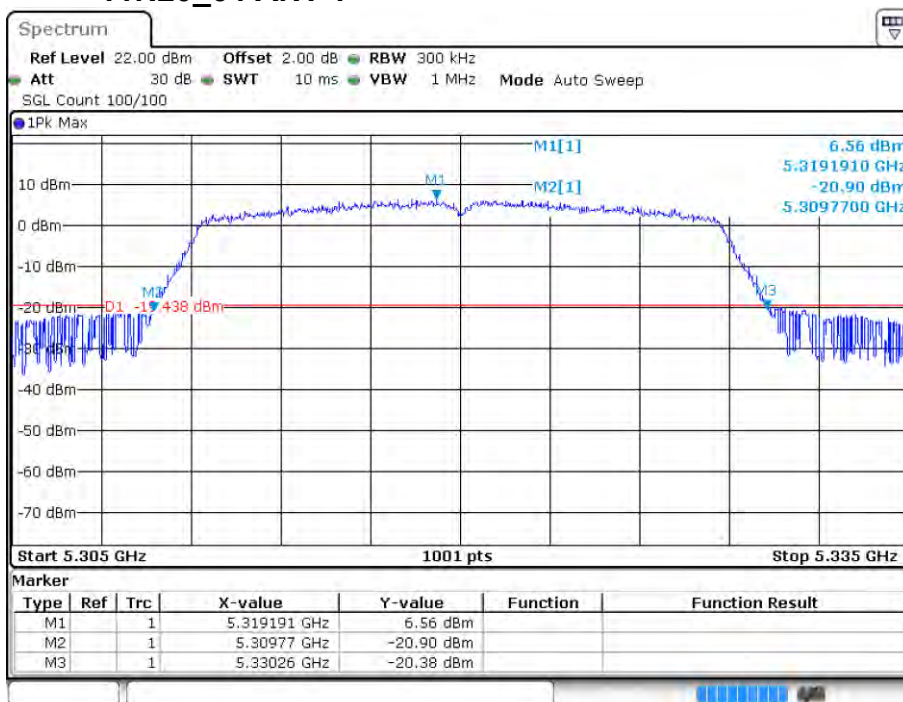
11N20_52 ANT 1



Date: 2.NOV.2019 00:41:22

4.5.2.11

11N20_64 ANT 1



Date: 2.NOV.2019 00:42:16

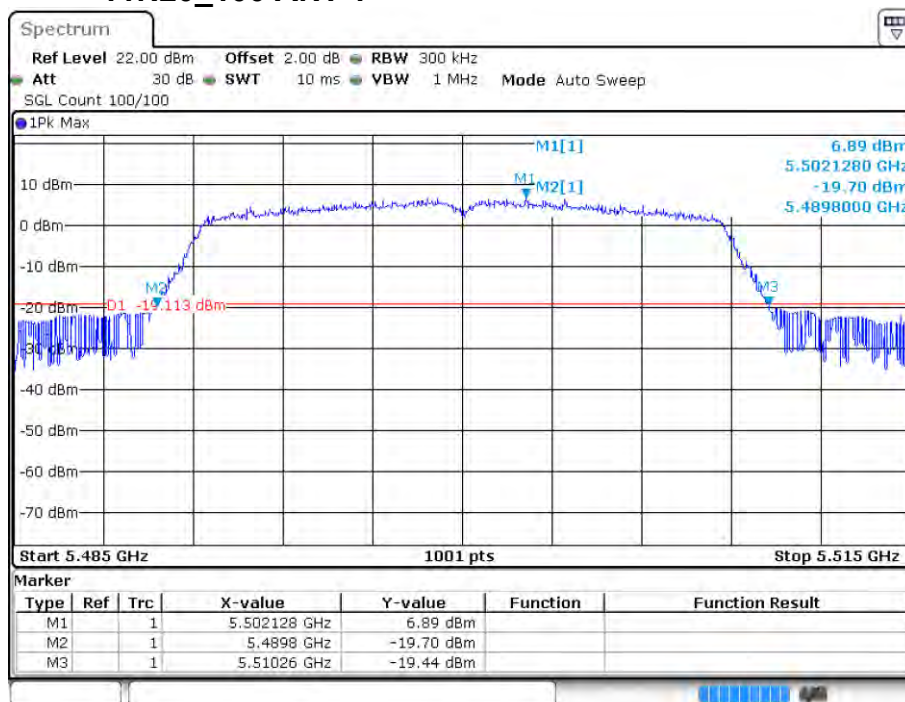


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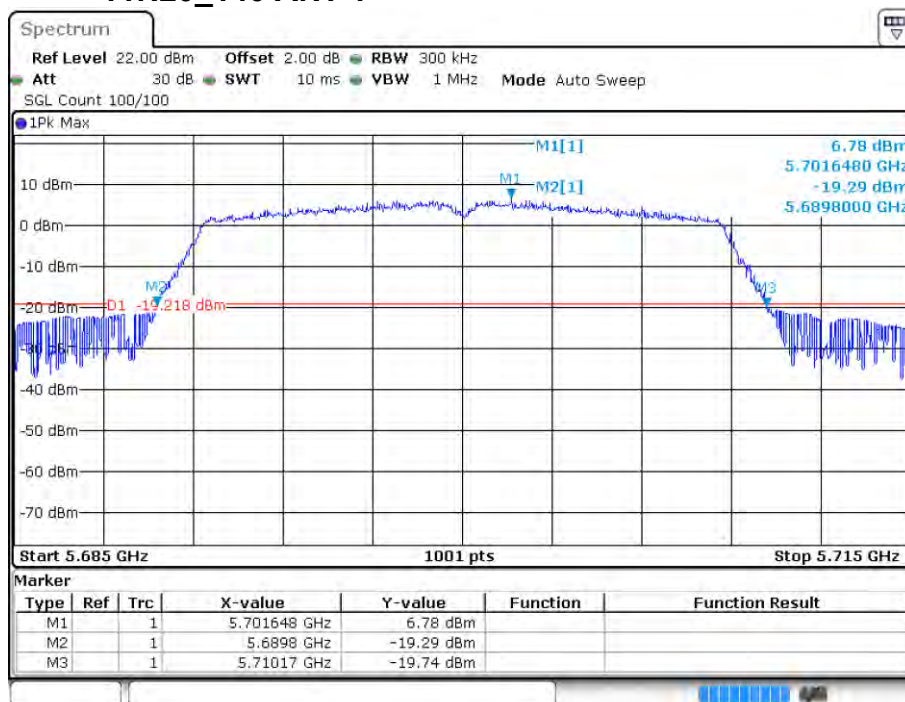
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4.5.2.12 11N20_100 ANT 1



Date: 2.NOV.2019 00:43:29

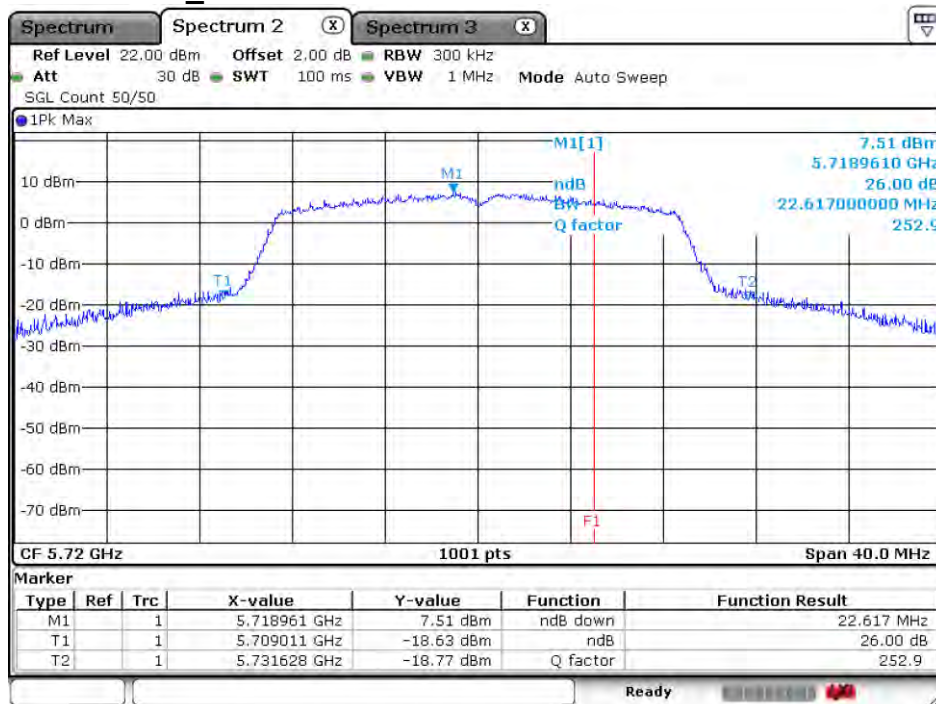
4.5.2.13 11N20_140 ANT 1



Date: 2.NOV.2019 00:44:24

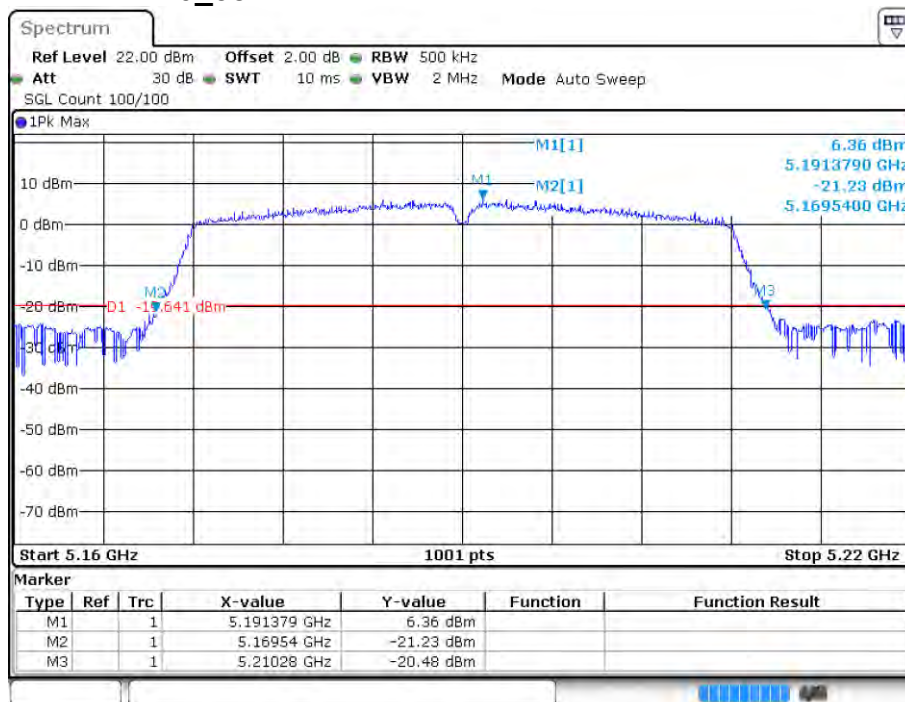


4.5.2.14 11N20_144 ANT 1



Date: 14.DEC.2019 03:45:04

4.5.2.15 11N40_38 ANT 1

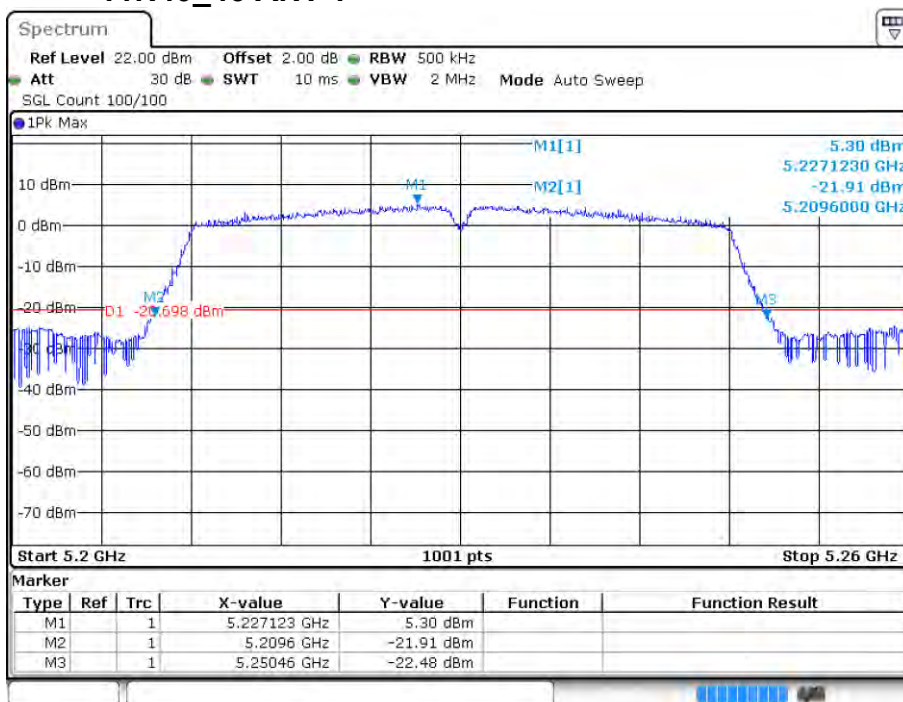


Date: 2.NOV.2019 01:02:42



4.5.2.16

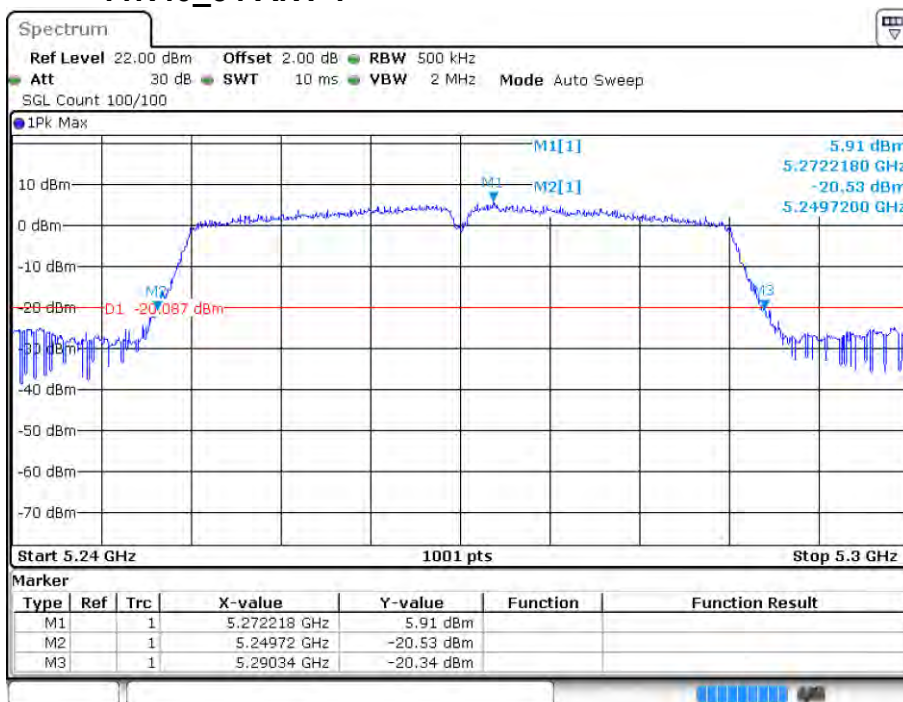
11N40_46 ANT 1



Date: 2.NOV.2019 01:04:02

4.5.2.17

11N40_54 ANT 1

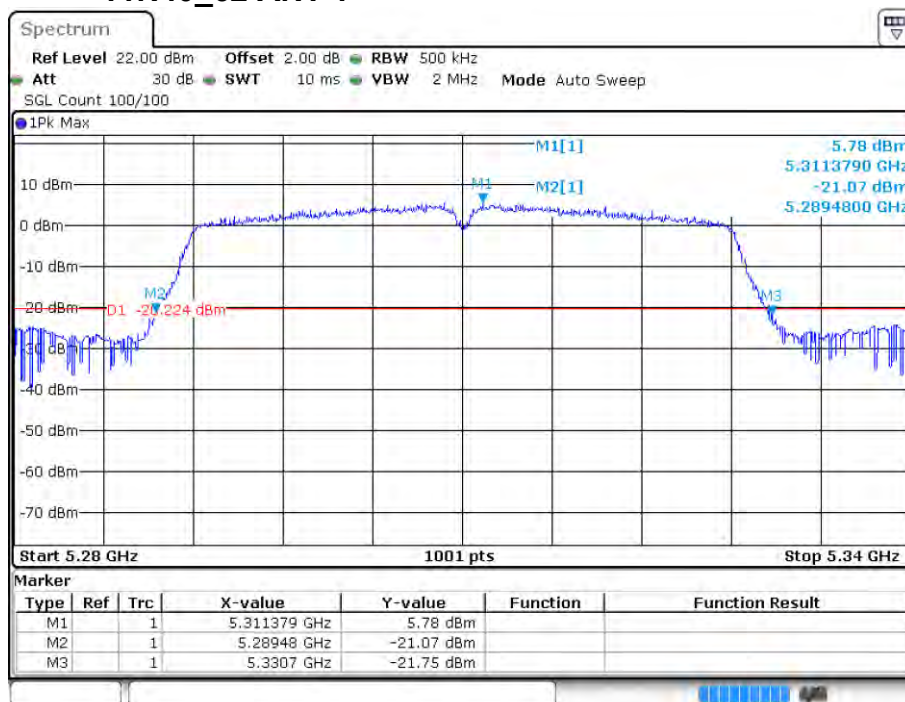


Date: 2.NOV.2019 01:06:26



4.5.2.18

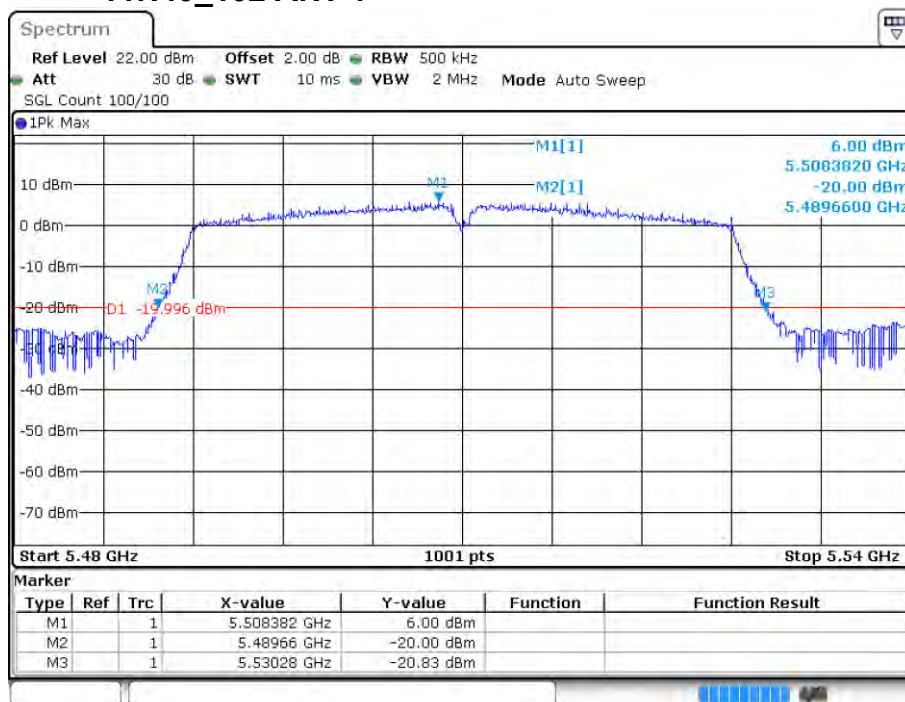
11N40_62 ANT 1



Date: 2.NOV.2019 01:08:44

4.5.2.19

11N40_102 ANT 1

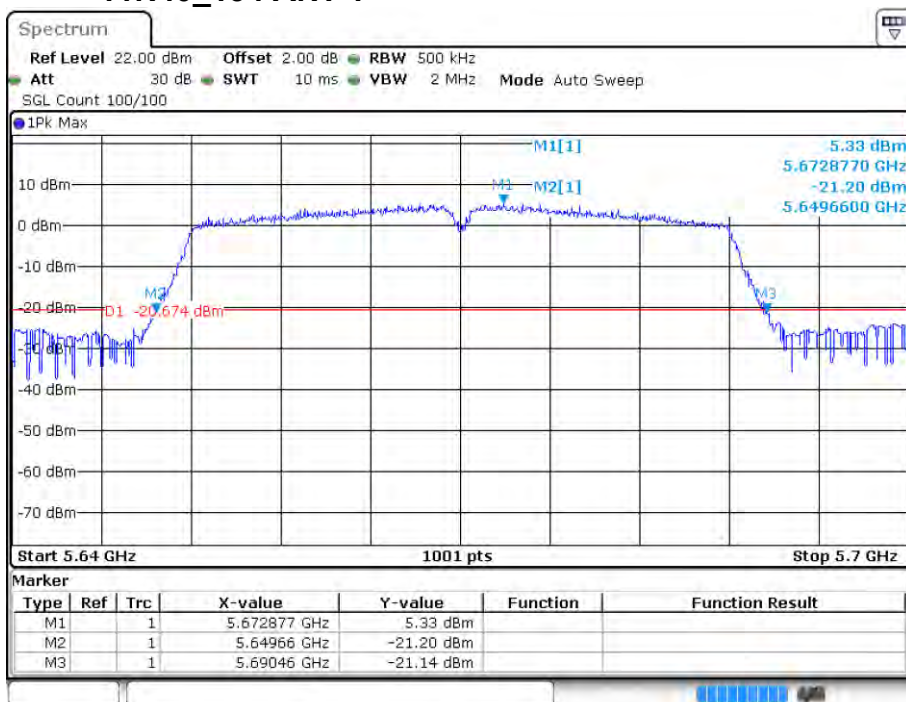


Date: 2.NOV.2019 01:10:01



4.5.2.20

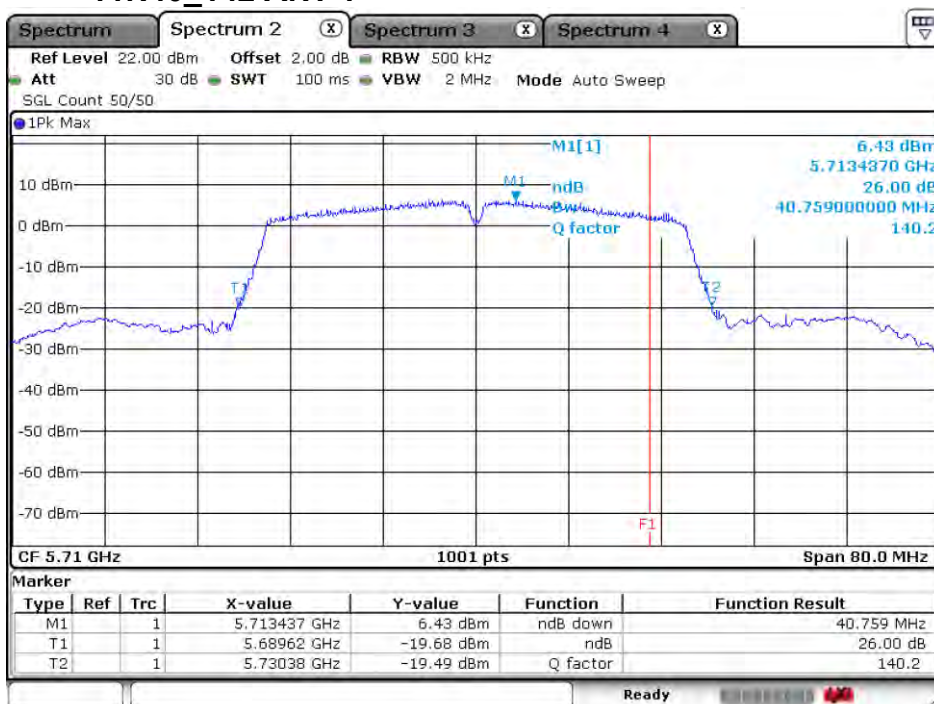
11N40_134 ANT 1



Date: 2.NOV.2019 01:11:43

4.5.2.21

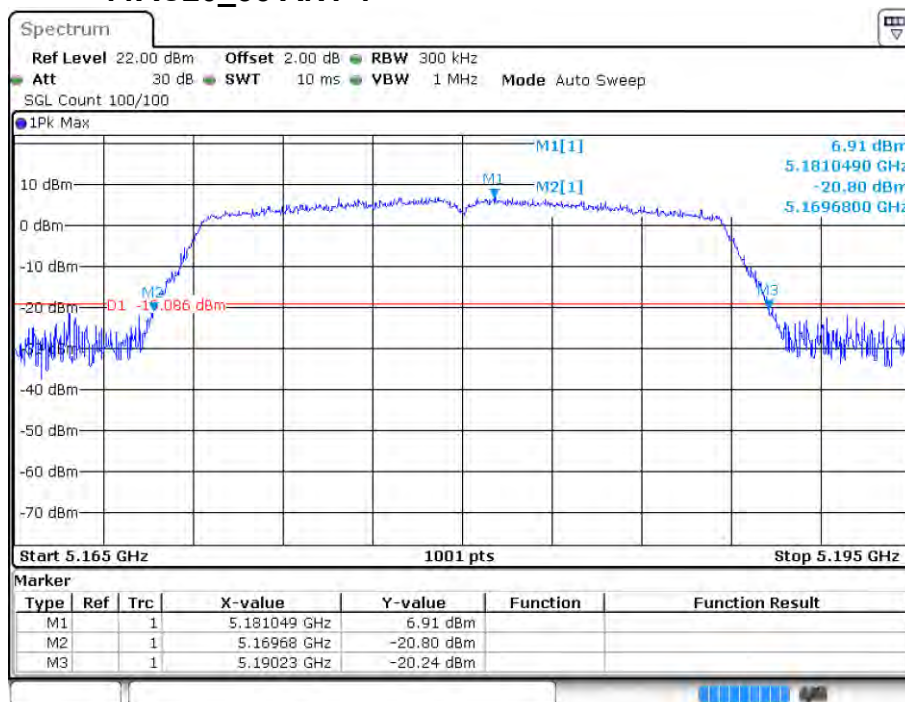
11N40_142 ANT 1



Date: 14.DEC.2019 06:07:25

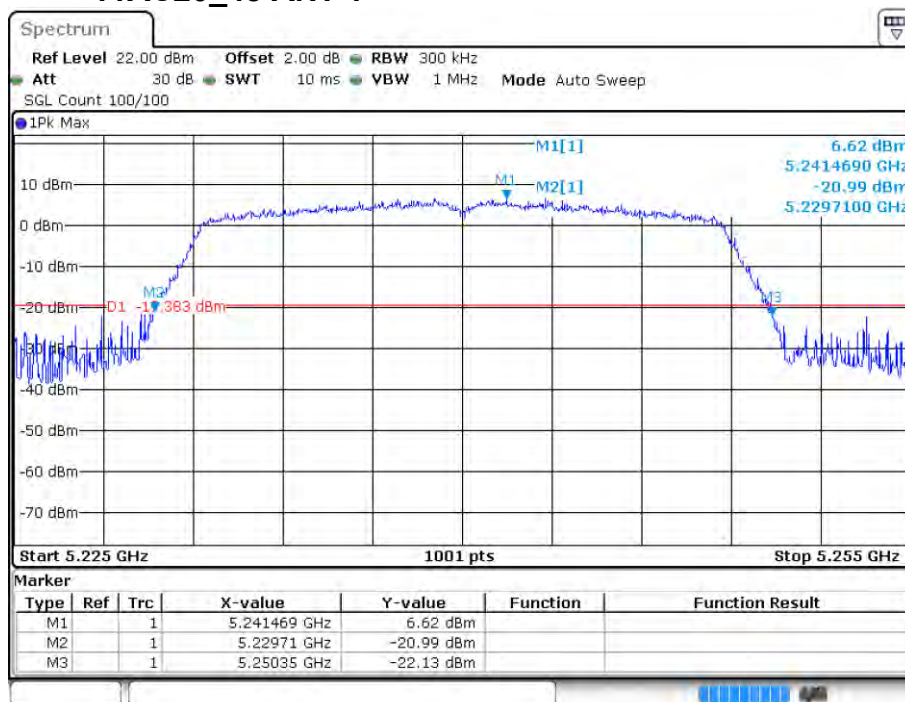


4.5.2.22 11AC20_36 ANT 1



Date: 2.NOV.2019 00:48:20

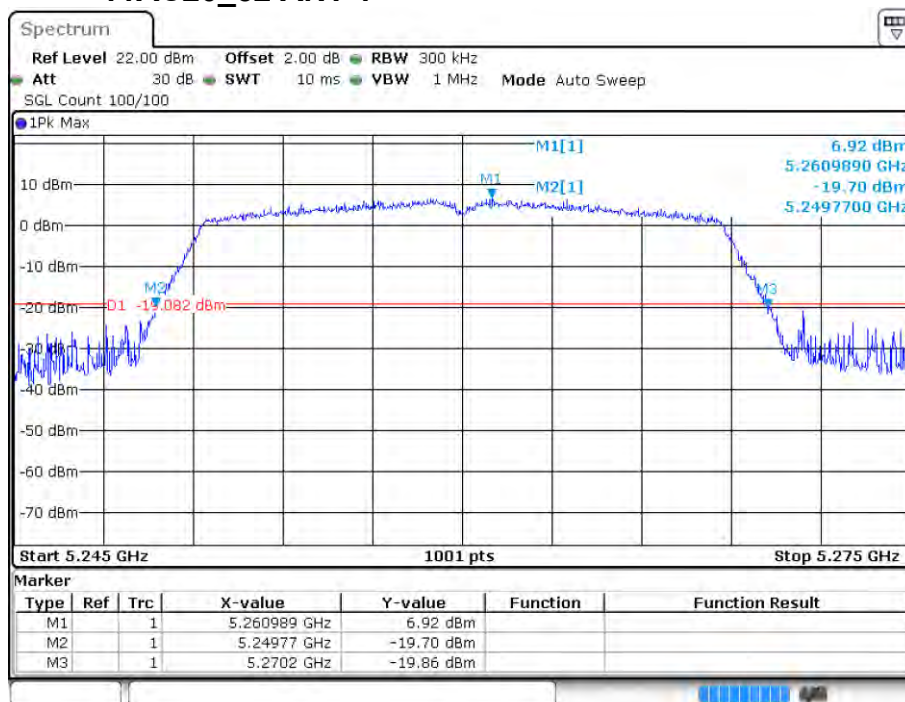
4.5.2.23 11AC20_48 ANT 1



Date: 2.NOV.2019 00:50:52

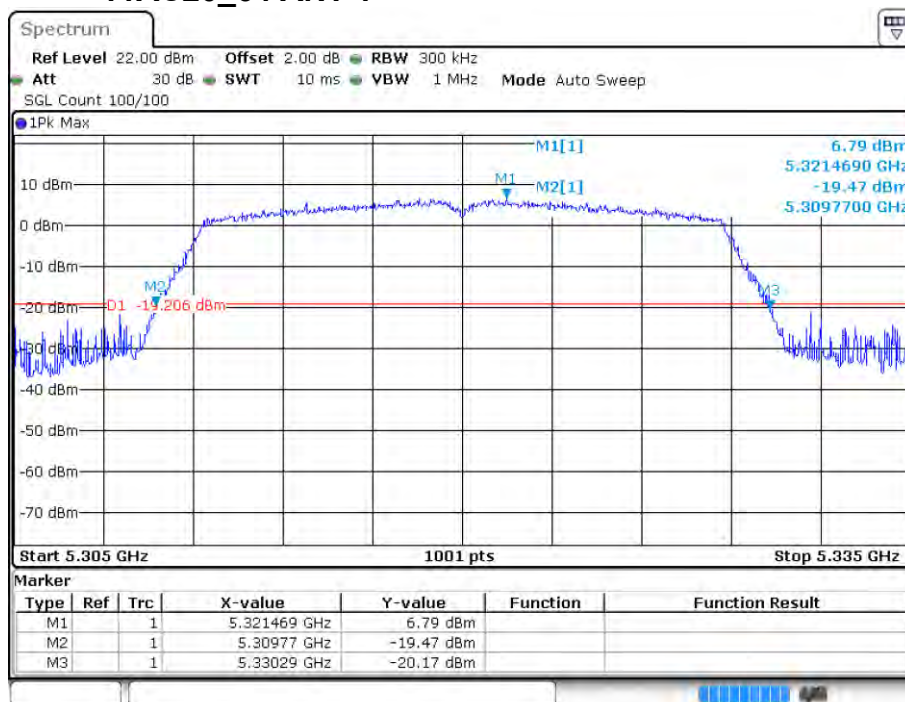


4.5.2.24 11AC20_52 ANT 1



Date: 2.NOV.2019 00:52:20

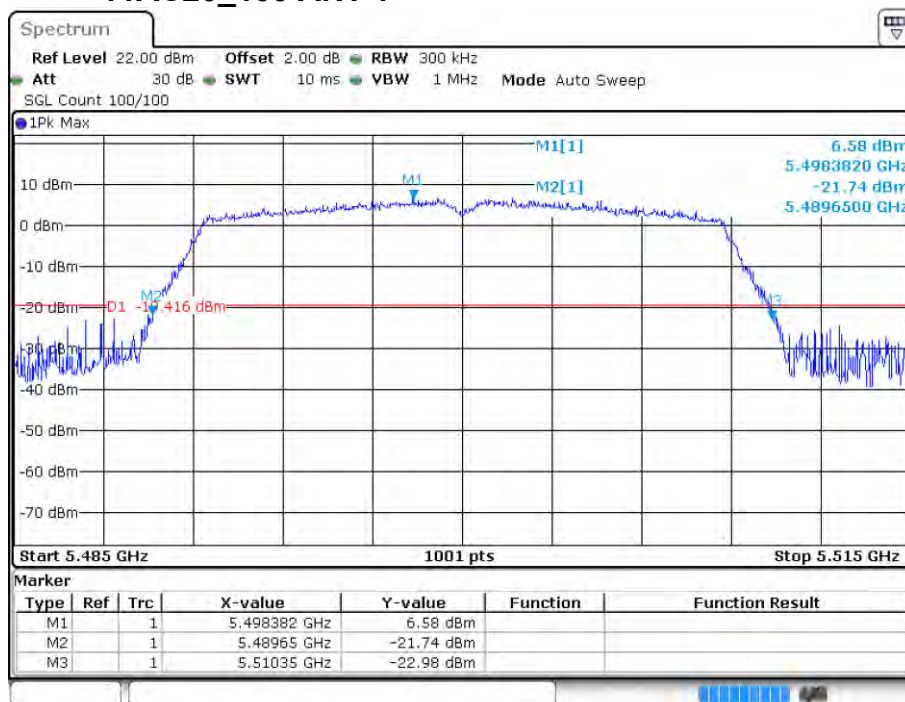
4.5.2.25 11AC20_64 ANT 1



Date: 2.NOV.2019 00:53:33

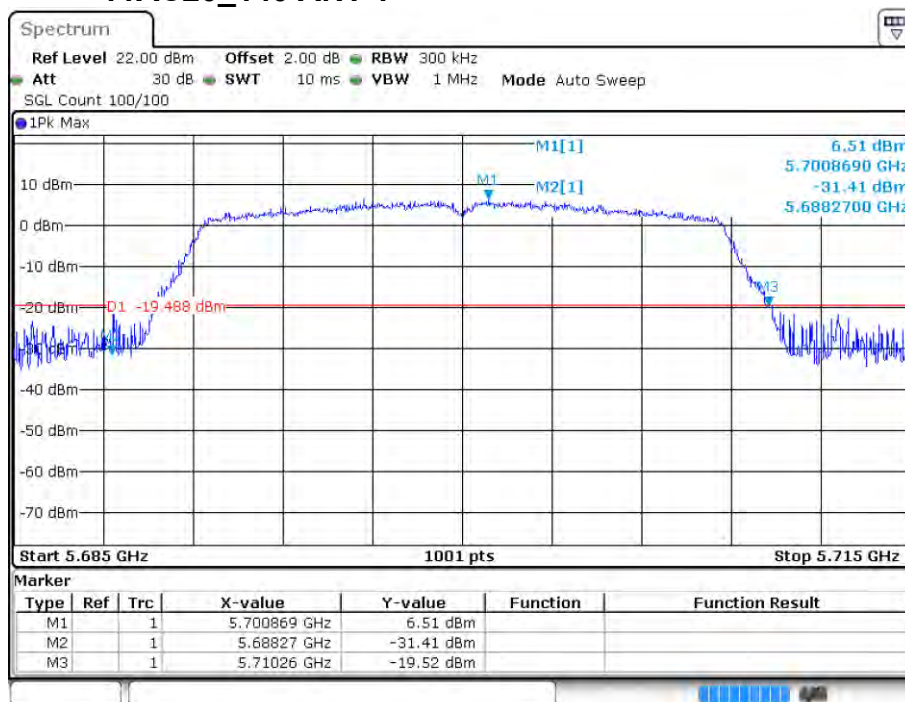


4.5.2.26 11AC20_100 ANT 1



Date: 2.NOV.2019 00:55:48

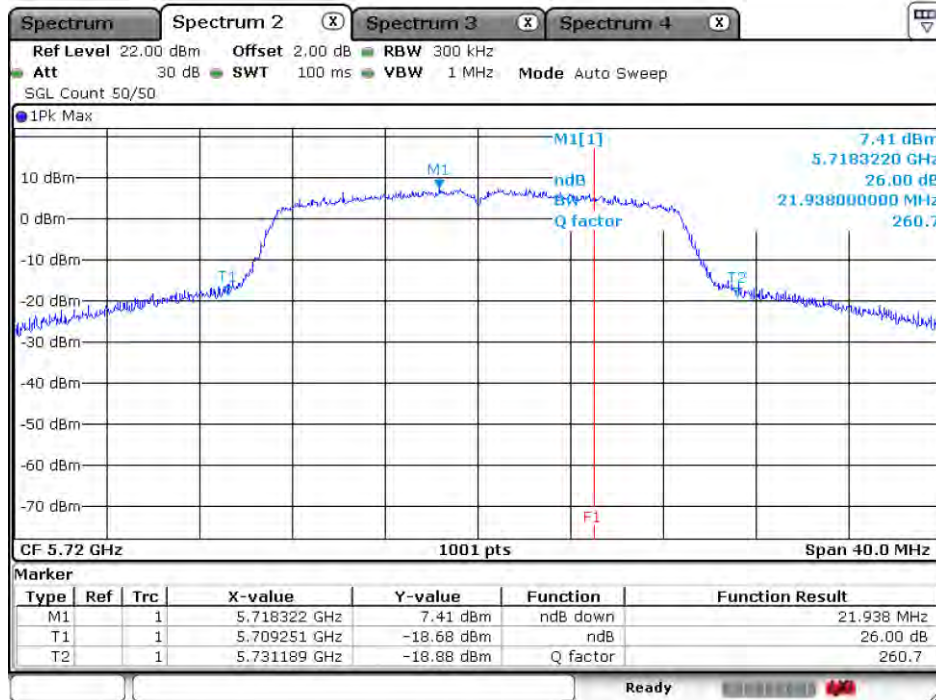
4.5.2.27 11AC20_140 ANT 1



Date: 2.NOV.2019 00:57:17

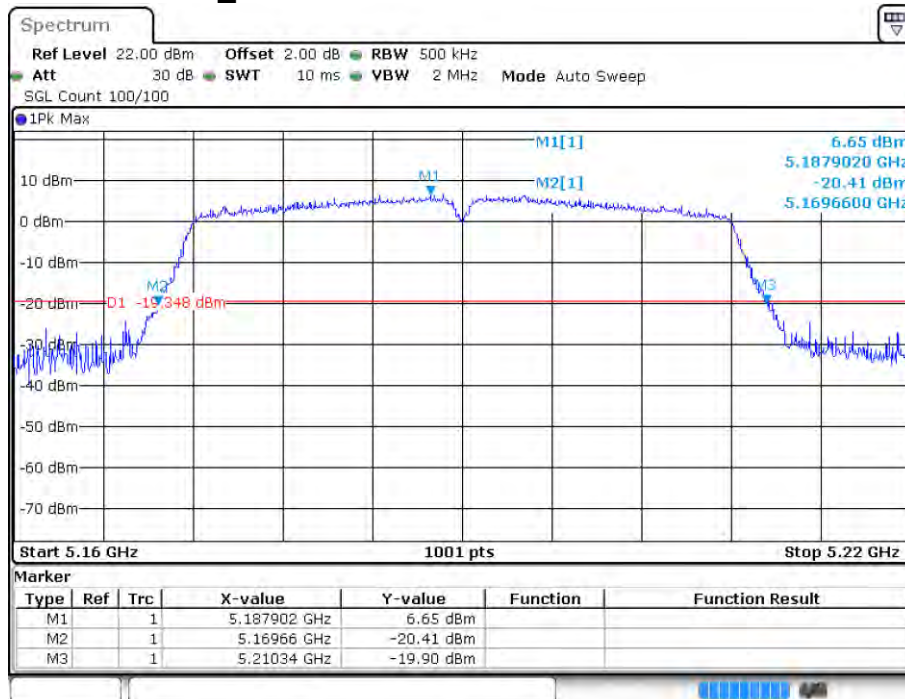


4.5.2.28 11AC20_144 ANT 1



Date: 14.DEC.2019 03:47:01

4.5.2.29 11AC40_38 ANT 1

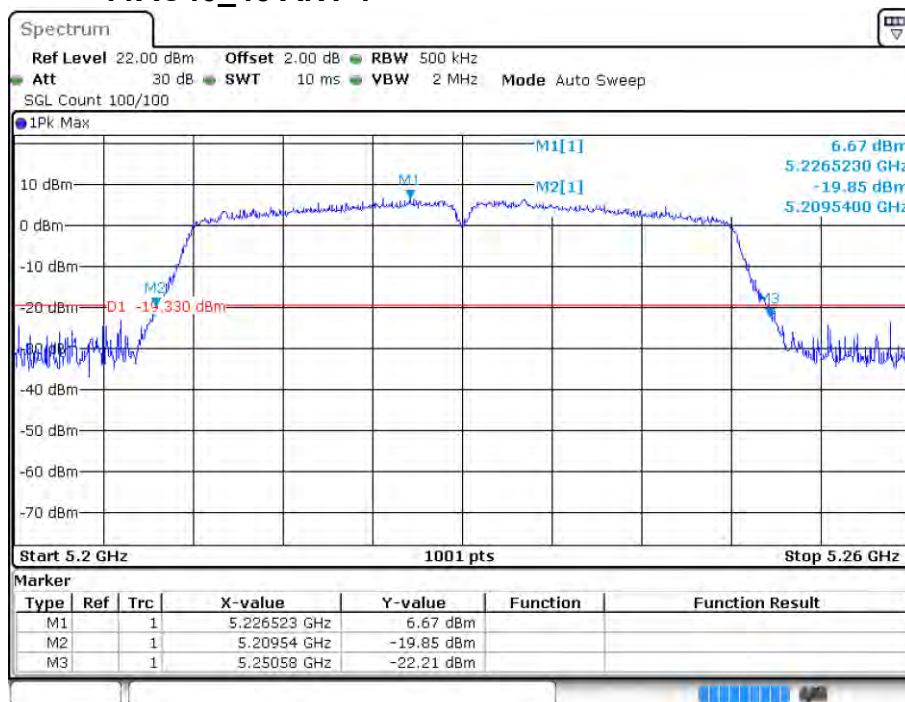


Date: 2.NOV.2019 04:39:37



4.5.2.30

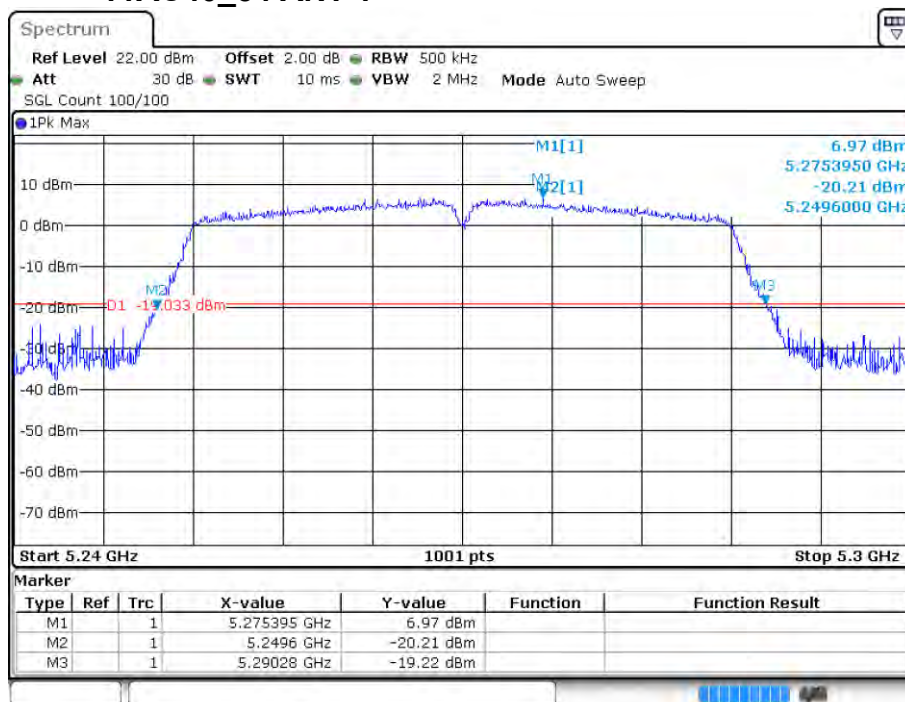
11AC40_46 ANT 1



Date: 2.NOV.2019 04:40:37

4.5.2.31

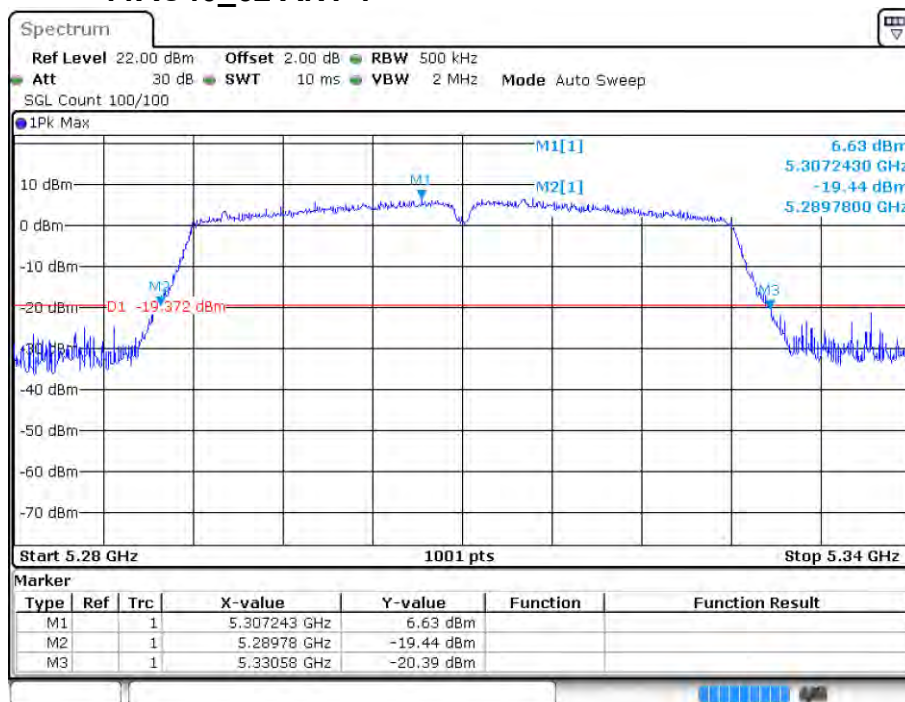
11AC40_54 ANT 1



Date: 2.NOV.2019 04:41:49



4.5.2.32 11AC40_62 ANT 1



Date: 2.NOV.2019 04:42:40

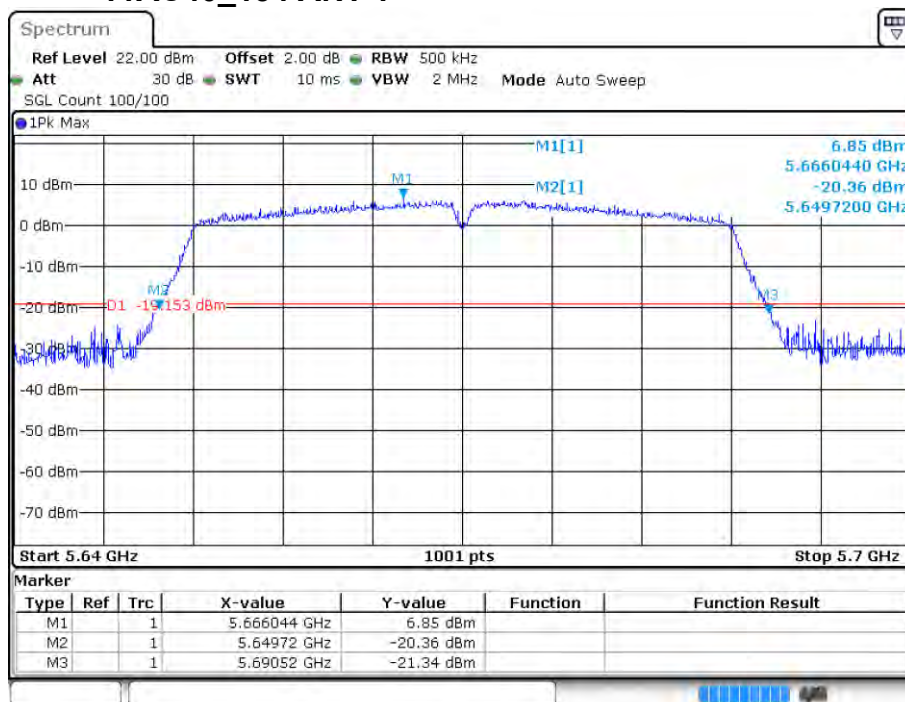
4.5.2.33 11AC40_102 ANT 1



Date: 2.NOV.2019 04:44:39

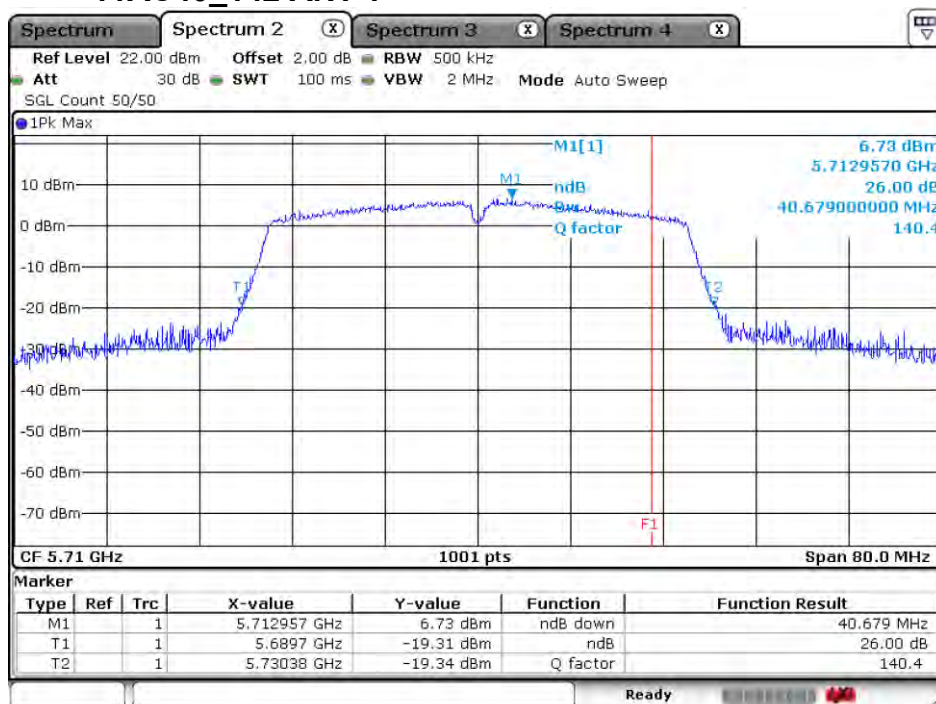


4.5.2.34 11AC40_134 ANT 1



Date: 2.NOV.2019 04:46:11

4.5.2.35 11AC40_142 ANT 1

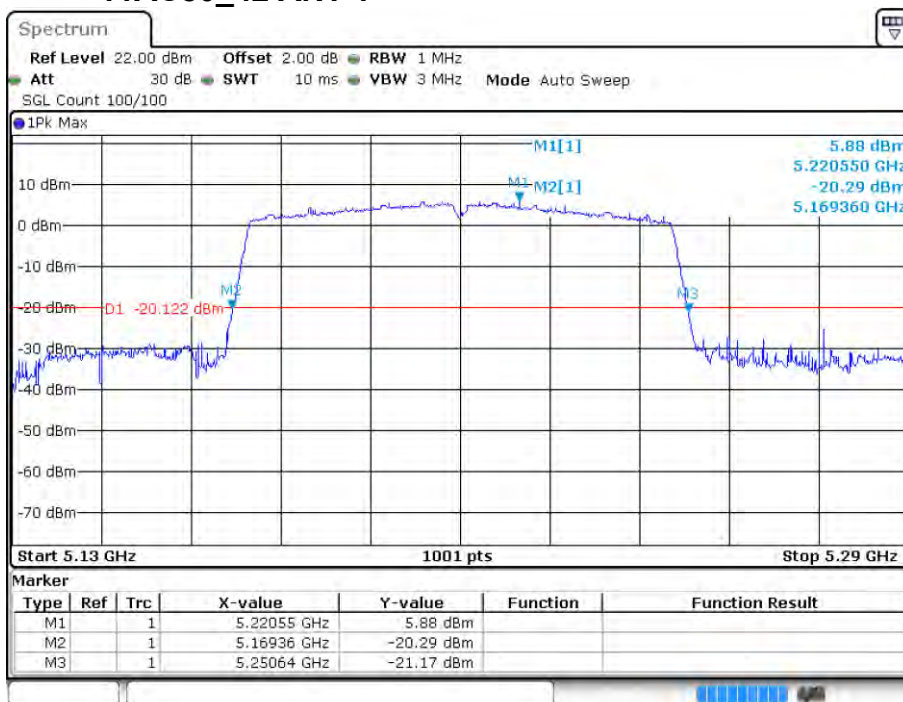


Date: 14.DEC.2019 05:58:53



4.5.2.36

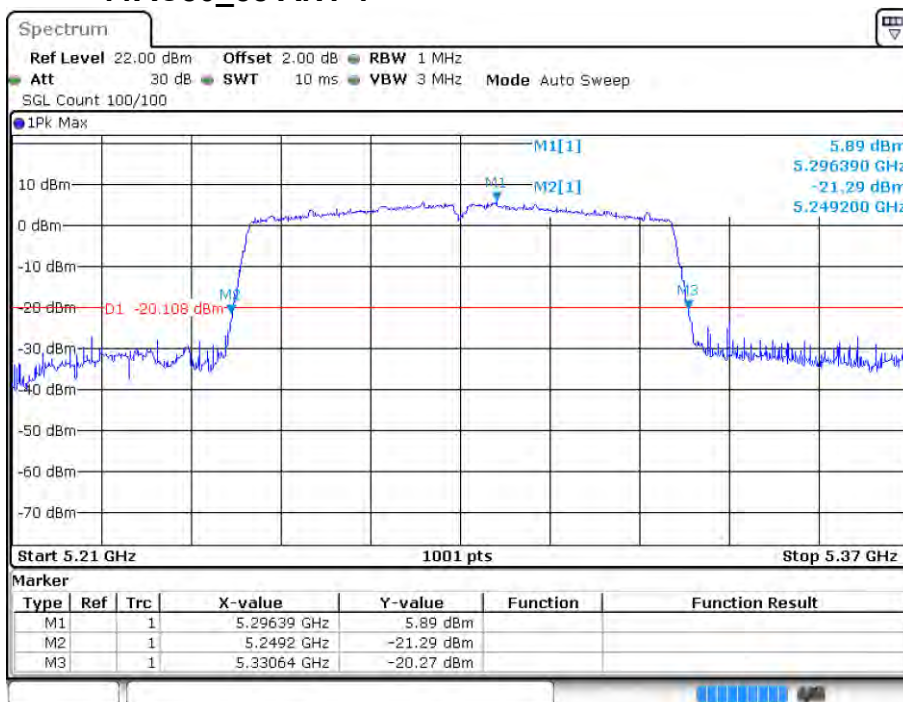
11AC80_42 ANT 1



Date: 2.NOV.2019 04:52:26

4.5.2.37

11AC80_58 ANT 1

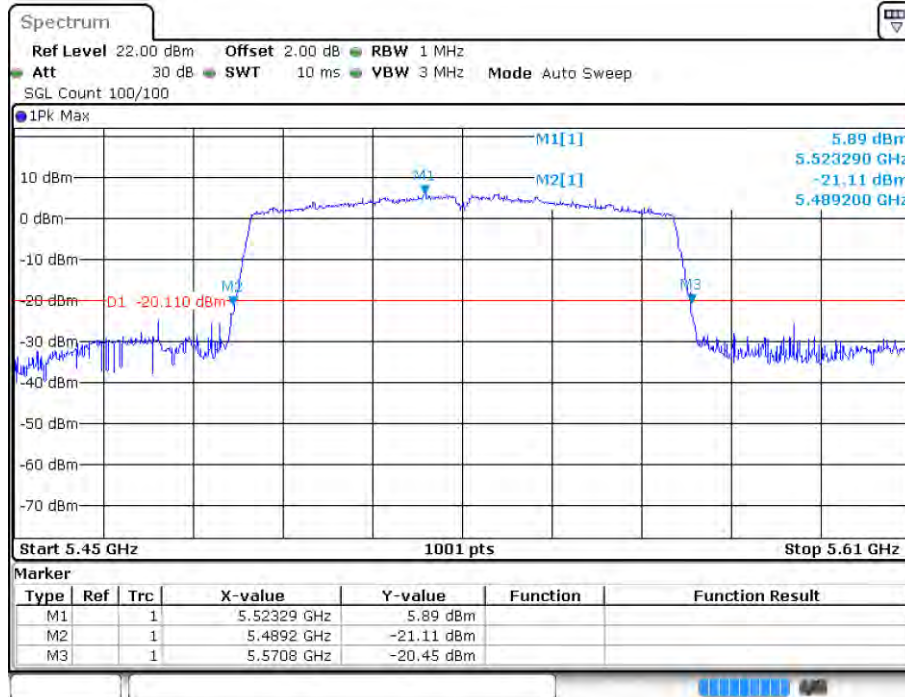


Date: 2.NOV.2019 04:53:54



4.5.2.38

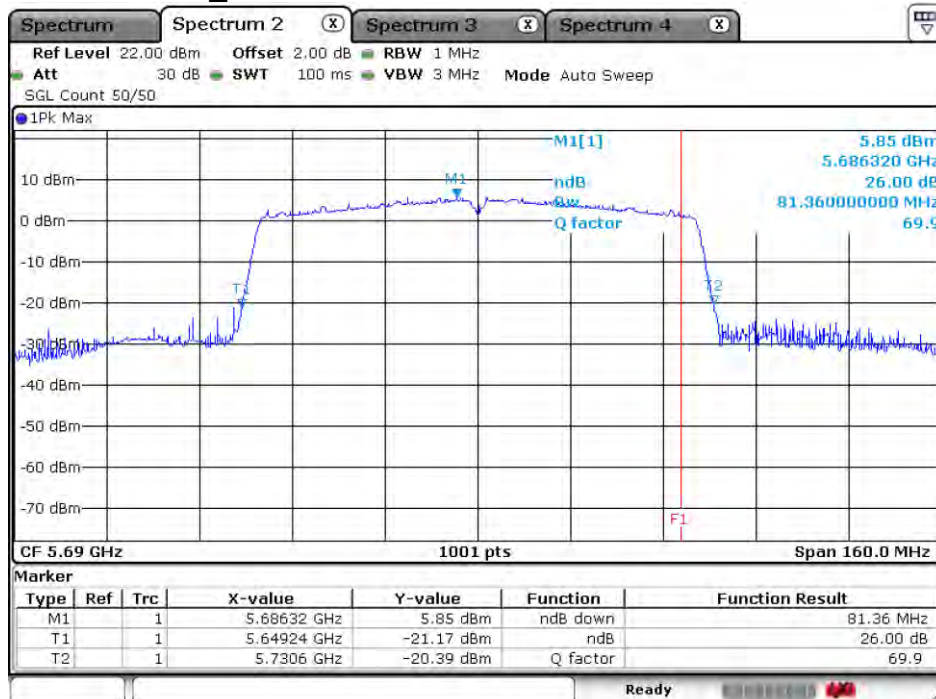
11AC80_106 ANT 1



Date: 2.NOV.2019 04:56:49

4.5.2.39

11AC80_138 ANT 1

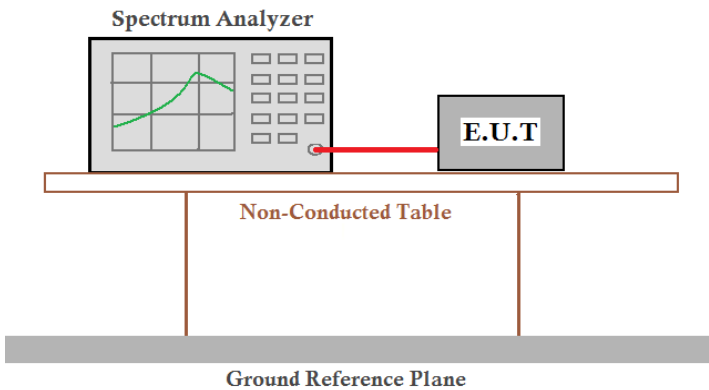


Date: 14.DEC.2019 06:15:12





4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	



4.6.1 Test Results for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	144	5720	ANT 1	15.11	PASS
	149	5745	ANT 1	15.12	PASS
	165	5825	ANT 1	15.09	PASS
11N20	144	5720	ANT 1	14.19	PASS
	149	5745	ANT 1	15.18	PASS
	165	5825	ANT 1	15.12	PASS
11N40	142	5710	ANT 1	35.09	PASS
	151	5755	ANT 1	35.22	PASS
	159	5795	ANT 1	35.22	PASS
11AC20	144	5720	ANT 1	15.15	PASS
	149	5745	ANT 1	15.12	PASS
	165	5825	ANT 1	15.12	PASS
11AC40	142	5710	ANT 1	35.18	PASS
	151	5755	ANT 1	35.16	PASS
	159	5795	ANT 1	35.16	PASS
11AC80	138	5690	ANT 1	75.30	PASS
	155	5775	ANT 1	75.52	PASS

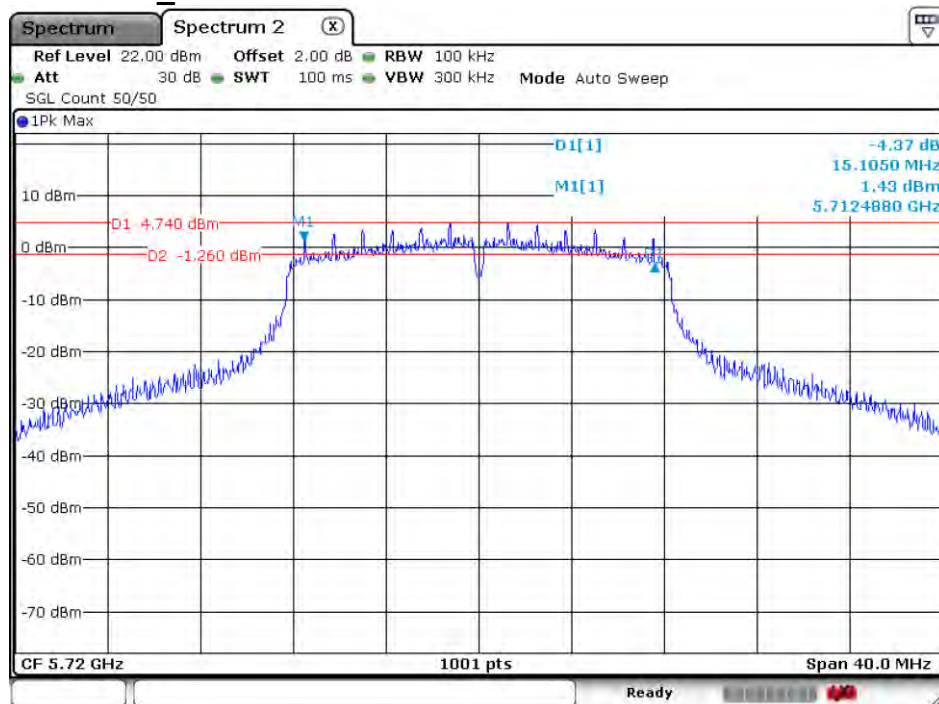


4.6.2

Plots for 6dB Emission Bandwidth

4.6.2.1

11A20_144 ANT 1

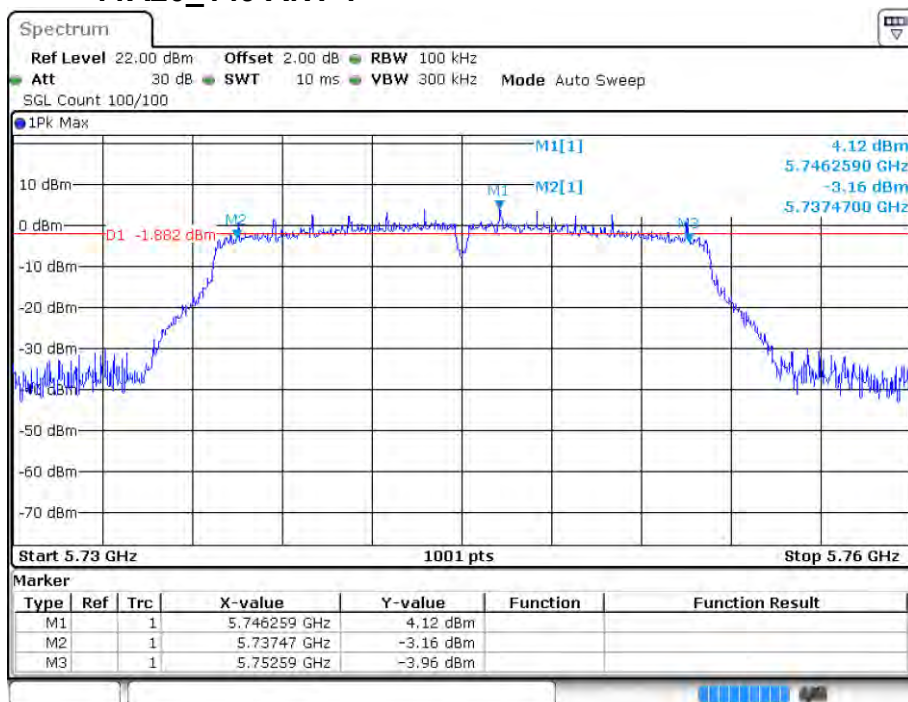


Date: 14.DEC.2019 03:41:52



4.6.2.2

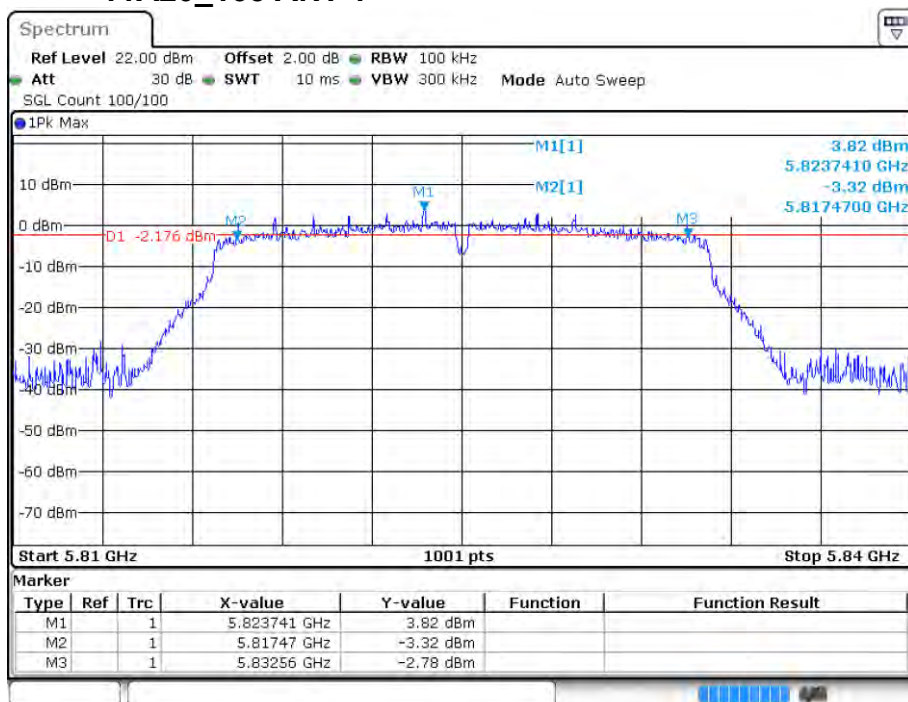
11A20_149 ANT 1



Date: 2.NOV.2019 00:35:07

4.6.2.3

11A20_165 ANT 1



Date: 2.NOV.2019 00:37:18

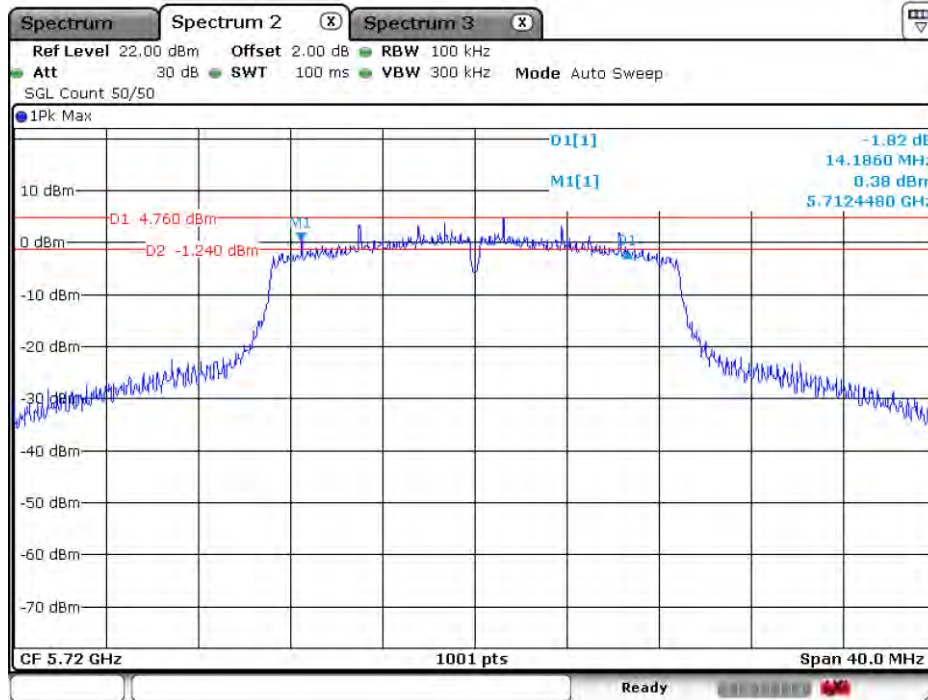


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4.6.2.4

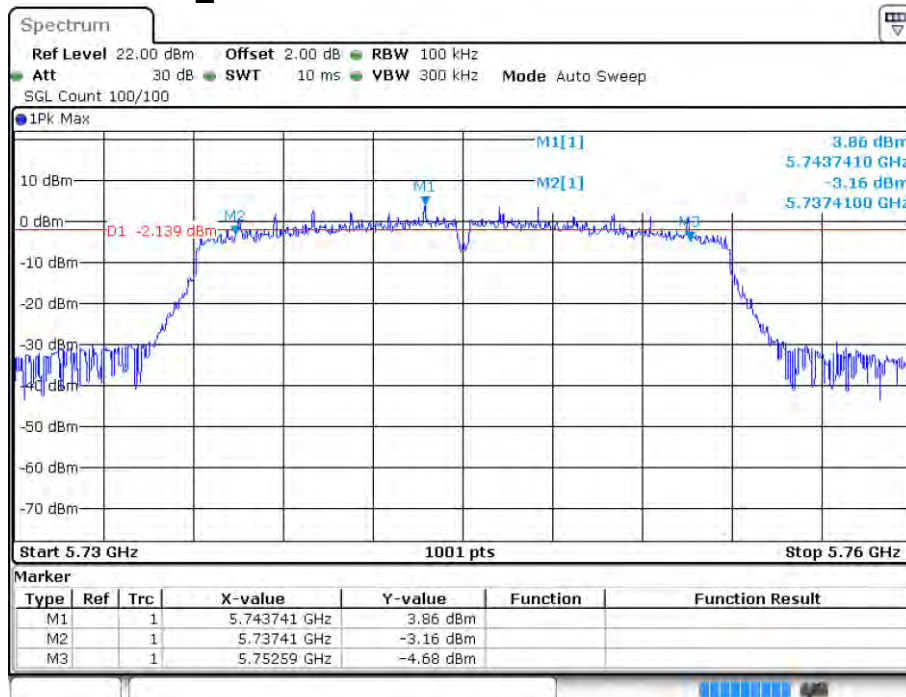
11N20_144 ANT 1



Date: 14.DEC.2019 03:44:00

4.6.2.5

11N20_149 ANT 1

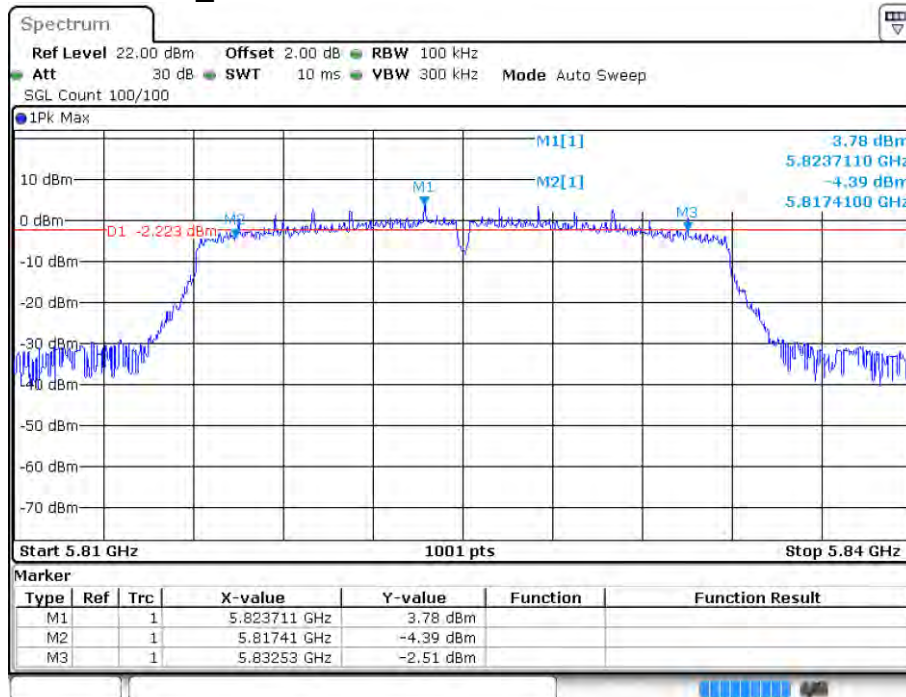


Date: 2.NOV.2019 00:45:44



4.6.2.6

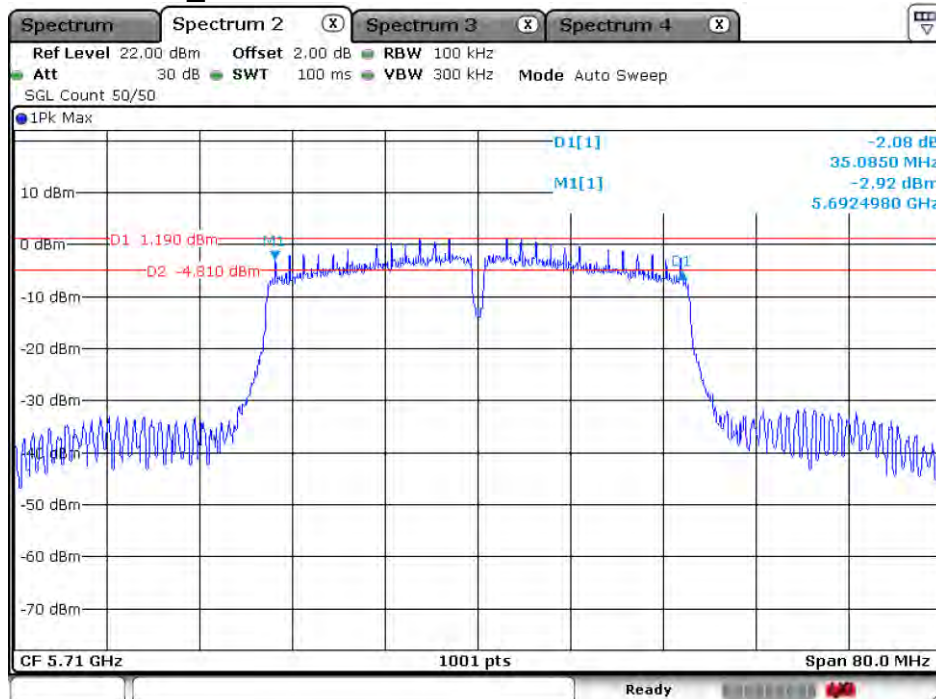
11N20_165 ANT 1



Date: 2.NOV.2019 00:46:36

4.6.2.7

11N40_142 ANT 1

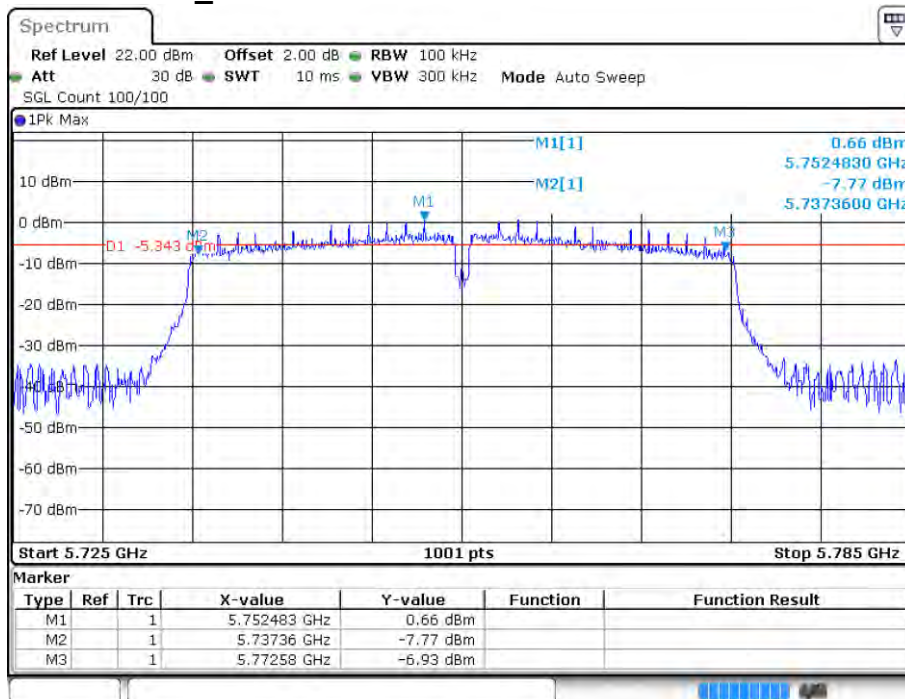


Date: 14.DEC.2019 06:09:10



4.6.2.8

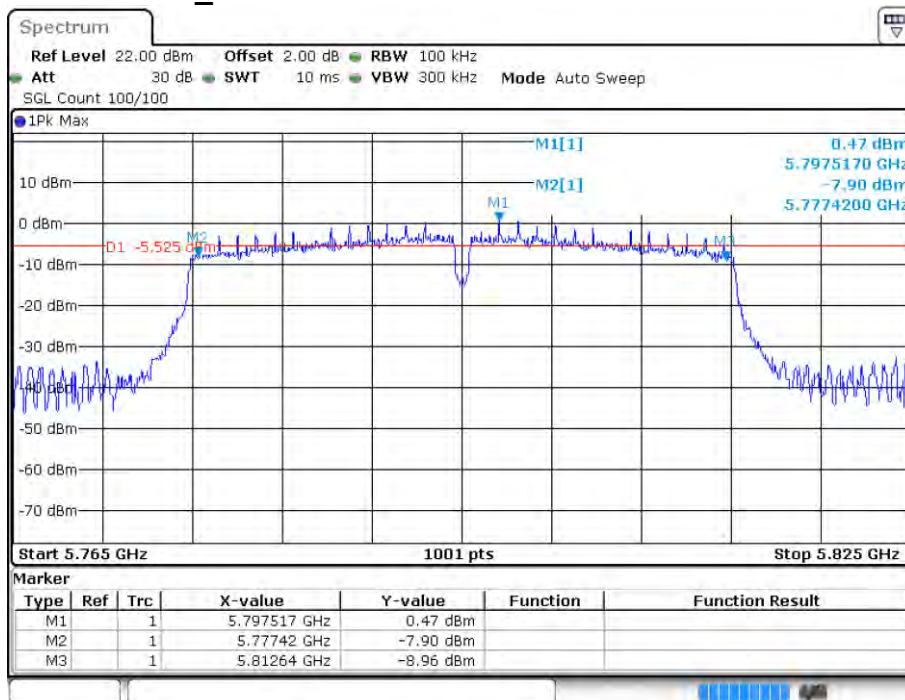
11N40_151 ANT 1



Date: 2.NOV.2019 01:13:41

4.6.2.9

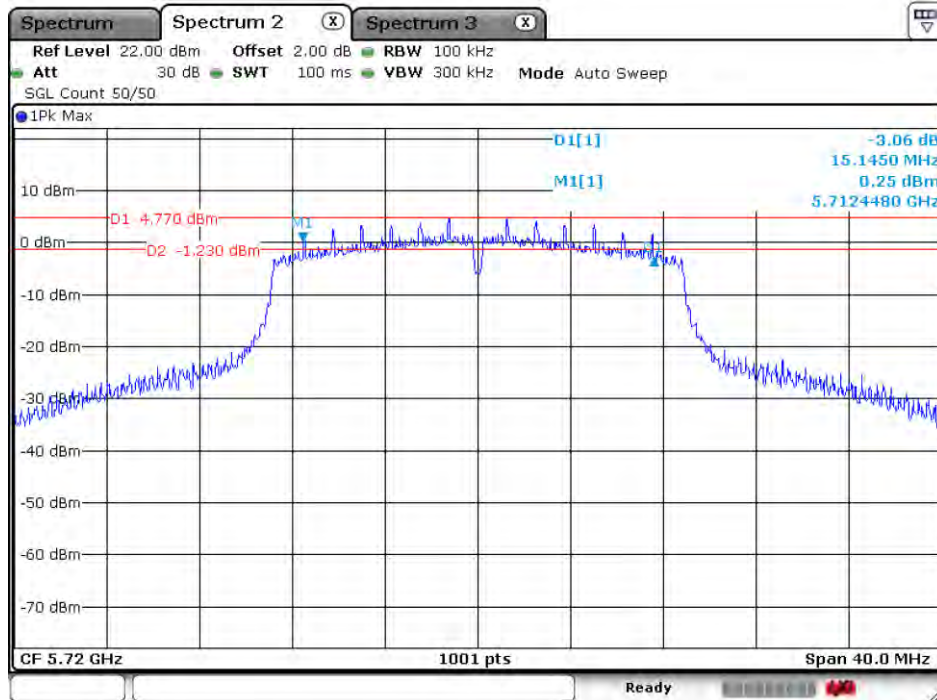
11N40_159 ANT 1



Date: 2.NOV.2019 01:14:54

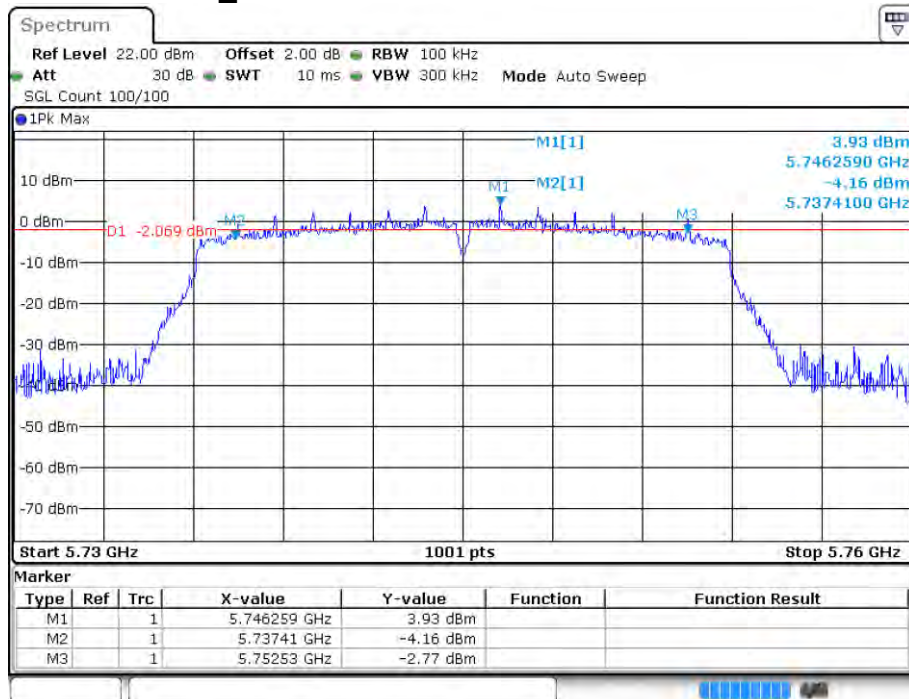


4.6.2.10 11AC20_144 ANT 1



Date: 14.DEC.2019 03:48:30

4.6.2.11 11AC20_149 ANT 1



Date: 2.NOV.2019 00:58:46

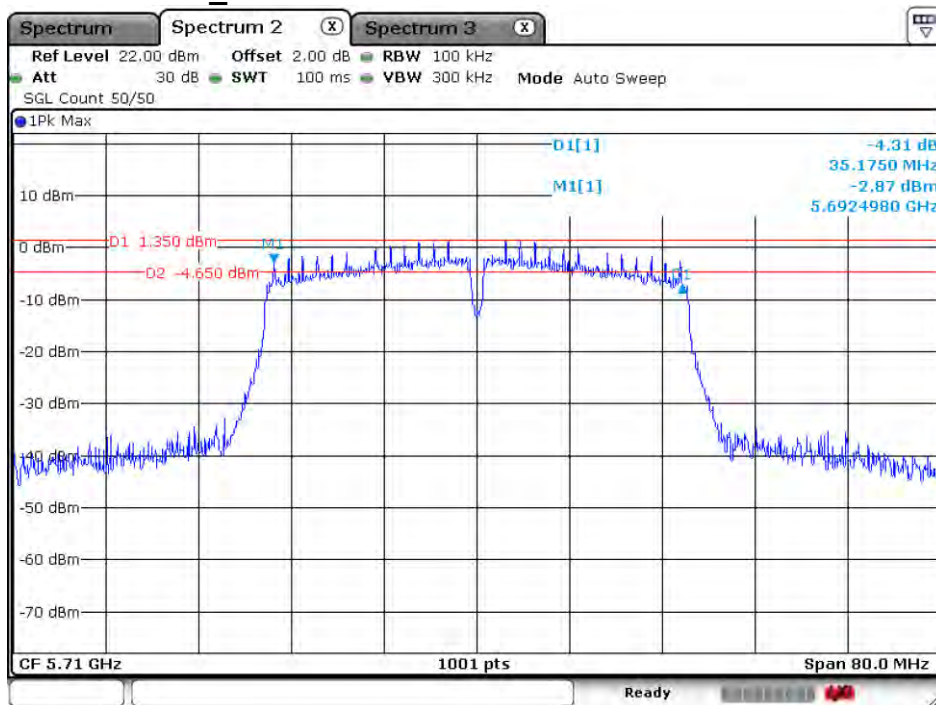


4.6.2.12 11AC20_165 ANT 1



Date: 2.NOV.2019 00:59:49

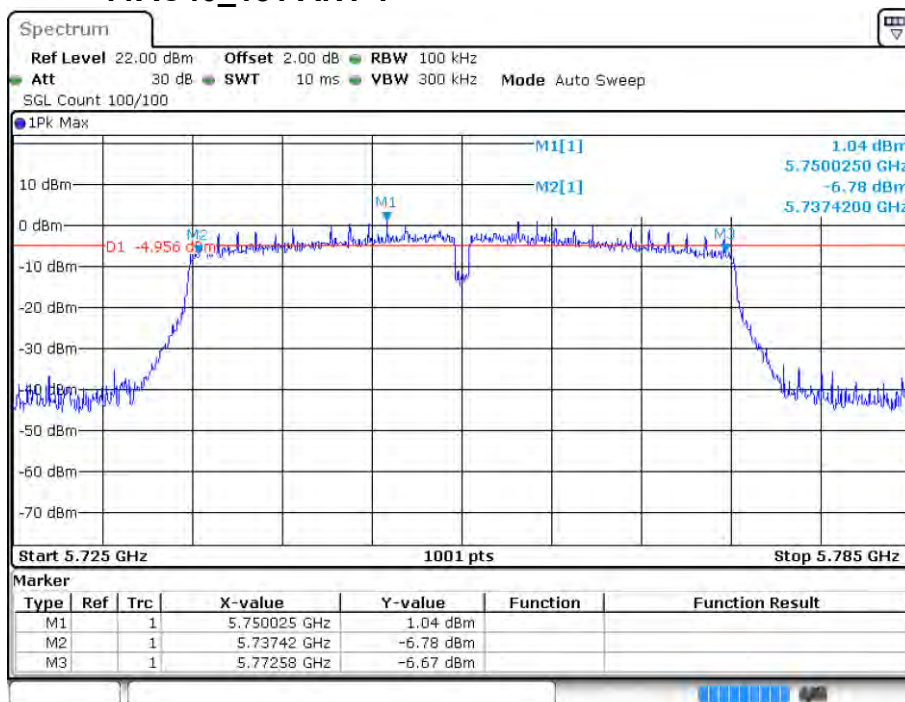
4.6.2.13 11AC40_142 ANT 1



Date: 14.DEC.2019 05:56:54

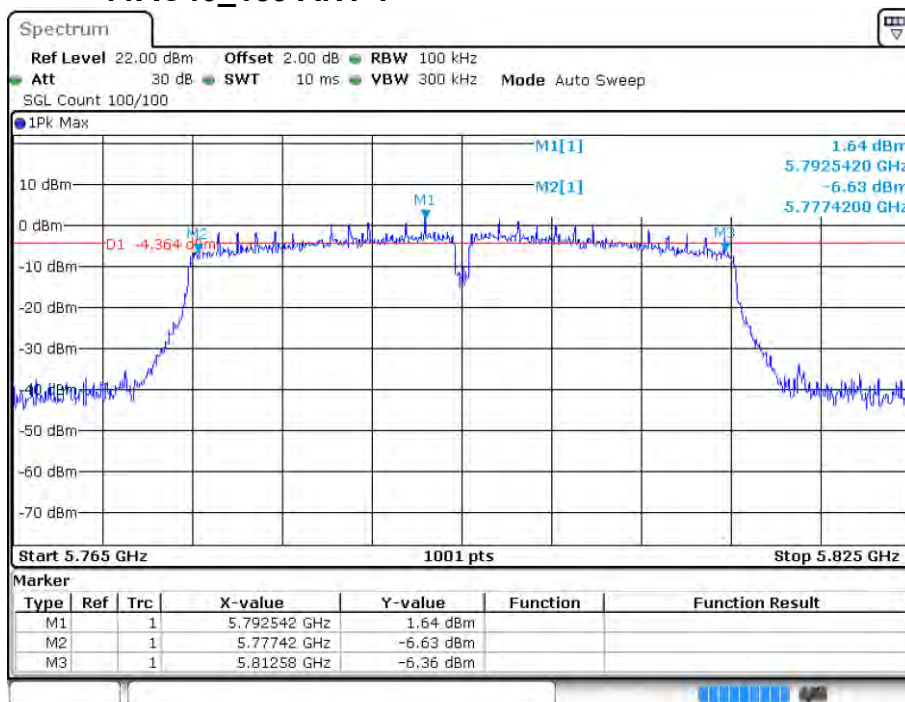


4.6.2.14 11AC40_151 ANT 1



Date: 2.NOV.2019 04:48:37

4.6.2.15 11AC40_159 ANT 1

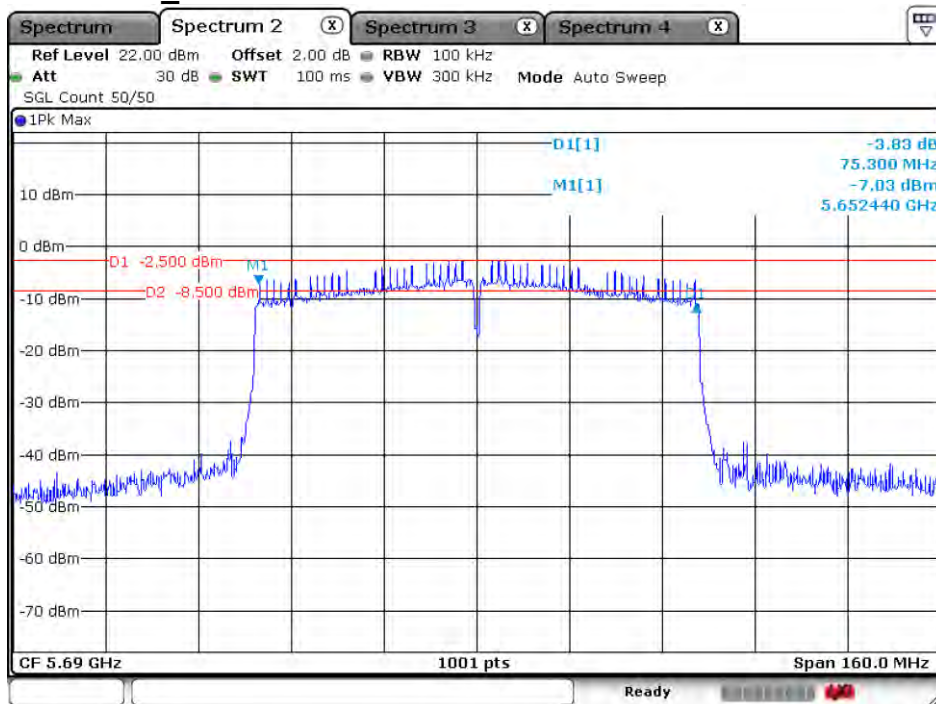


Date: 2.NOV.2019 04:49:42



4.6.2.16

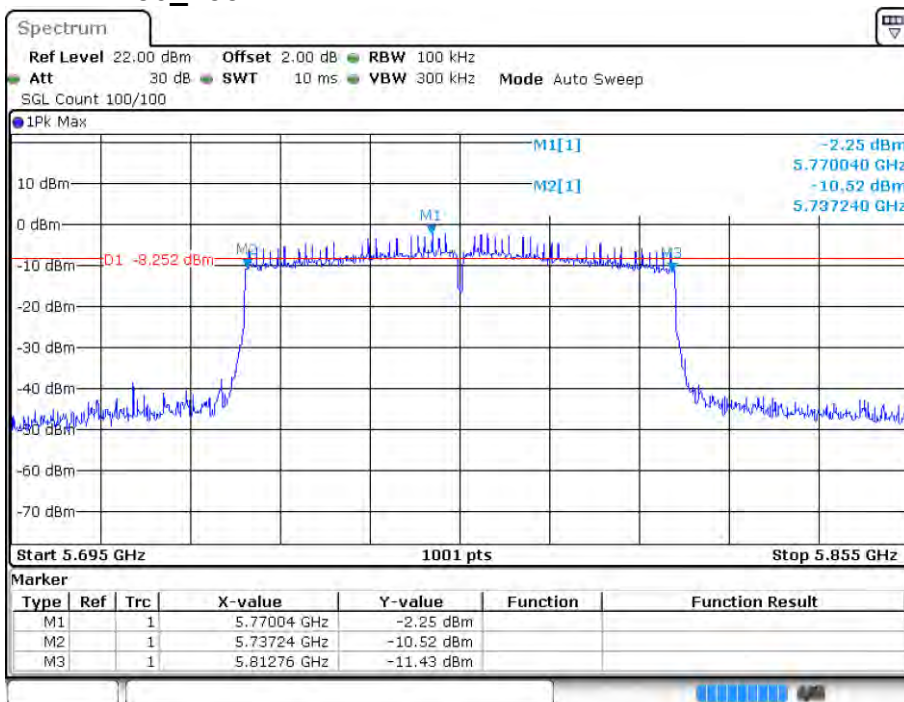
11AC80_138 ANT 1



Date: 14.DEC.2019 06:11:43

4.6.2.17

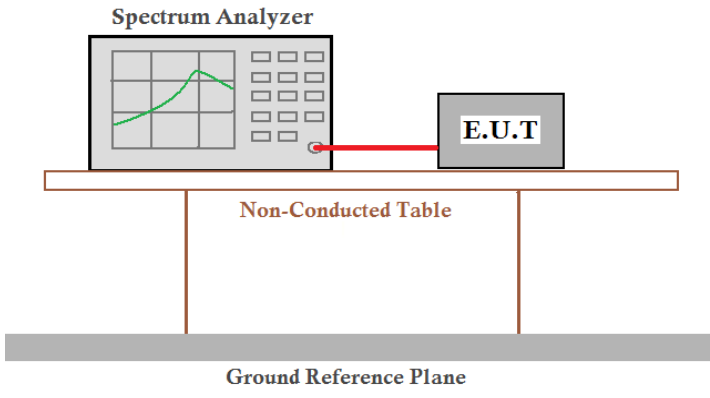
11AC80_155 ANT 1



Date: 2.NOV.2019 04:59:45



4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	





4.7.1 Test Results for 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.6933	PASS
	48	5240	ANT 1	16.6633	PASS
	52	5260	ANT 1	16.6933	PASS
	64	5320	ANT 1	16.6633	PASS
	100	5500	ANT 1	16.6933	PASS
	140	5700	ANT 1	16.6933	PASS
	144	5720	ANT 1	16.9030	PASS
	149	5745	ANT 1	16.6933	PASS
	165	5825	ANT 1	16.7233	PASS
11N20	36	5180	ANT 1	17.7123	PASS
	48	5240	ANT 1	17.7123	PASS
	52	5260	ANT 1	17.7123	PASS
	64	5320	ANT 1	17.7423	PASS
	100	5500	ANT 1	17.6823	PASS
	140	5700	ANT 1	17.7123	PASS
	144	5720	ANT 1	17.9450	PASS
	149	5745	ANT 1	17.7423	PASS
	165	5825	ANT 1	17.7423	PASS
11N40	38	5190	ANT 1	36.2038	PASS
	46	5230	ANT 1	36.1439	PASS
	54	5270	ANT 1	36.1439	PASS
	62	5310	ANT 1	36.1439	PASS
	102	5510	ANT 1	36.0839	PASS
	134	5670	ANT 1	36.0839	PASS
	142	5720	ANT 1	36.2373	PASS
	151	5755	ANT 1	36.0839	PASS
	159	5795	ANT 1	36.1439	PASS
11AC20	36	5180	ANT 1	17.6823	PASS
	48	5240	ANT 1	17.6823	PASS
	52	5260	ANT 1	17.6823	PASS
	64	5320	ANT 1	17.7123	PASS
	100	5500	ANT 1	17.6823	PASS
	140	5700	ANT 1	17.7123	PASS
	144	5720	ANT 1	17.9450	PASS
	149	5745	ANT 1	17.6523	PASS
	165	5825	ANT 1	17.6823	PASS
11AC40	38	5190	ANT 1	36.0839	PASS
	46	5230	ANT 1	36.0839	PASS
	54	5270	ANT 1	36.0839	PASS
	62	5310	ANT 1	36.0839	PASS
	102	5510	ANT 1	36.0839	PASS
	134	5670	ANT 1	36.0839	PASS
	142	5720	ANT 1	36.1216	PASS
	151	5755	ANT 1	36.1439	PASS
	159	5795	ANT 1	36.0839	PASS



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11AC80	42	5210	ANT 1	75.1648	PASS
	58	5290	ANT 1	75.1648	PASS
	106	5530	ANT 1	75.1648	PASS
	138	5690	ANT 1	75.0217	PASS
	155	5775	ANT 1	75.1648	PASS

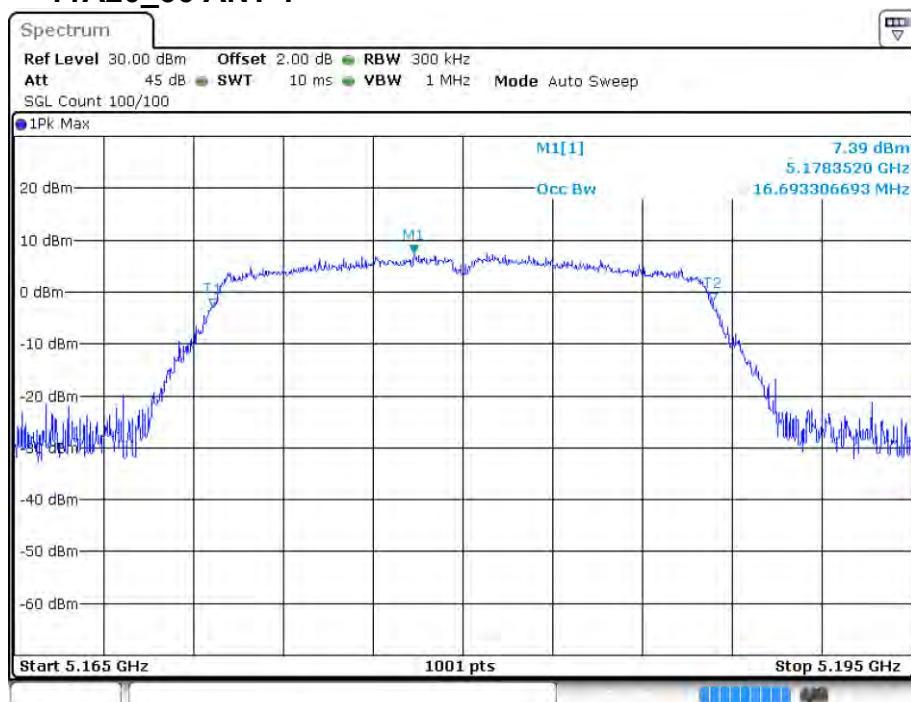


4.7.2

Plots for 99% Occupied Bandwidth

4.7.2.1

11A20_36 ANT 1



Date: 2.NOV.2019 00:26:18



4.7.2.2

11A20_48 ANT 1



Date: 2.NOV.2019 00:27:26

4.7.2.3

11A20_52 ANT 1



Date: 2.NOV.2019 00:28:35



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4.7.2.4

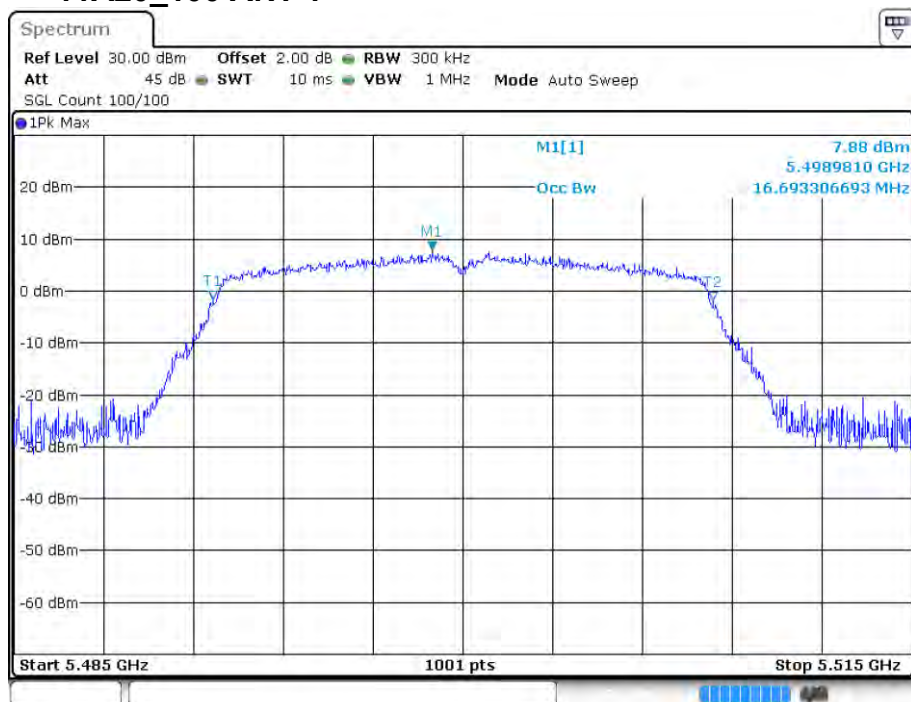
11A20_64 ANT 1



Date: 2.NOV.2019 00:29:30

4.7.2.5

11A20_100 ANT 1



Date: 2.NOV.2019 00:31:25



4.7.2.6

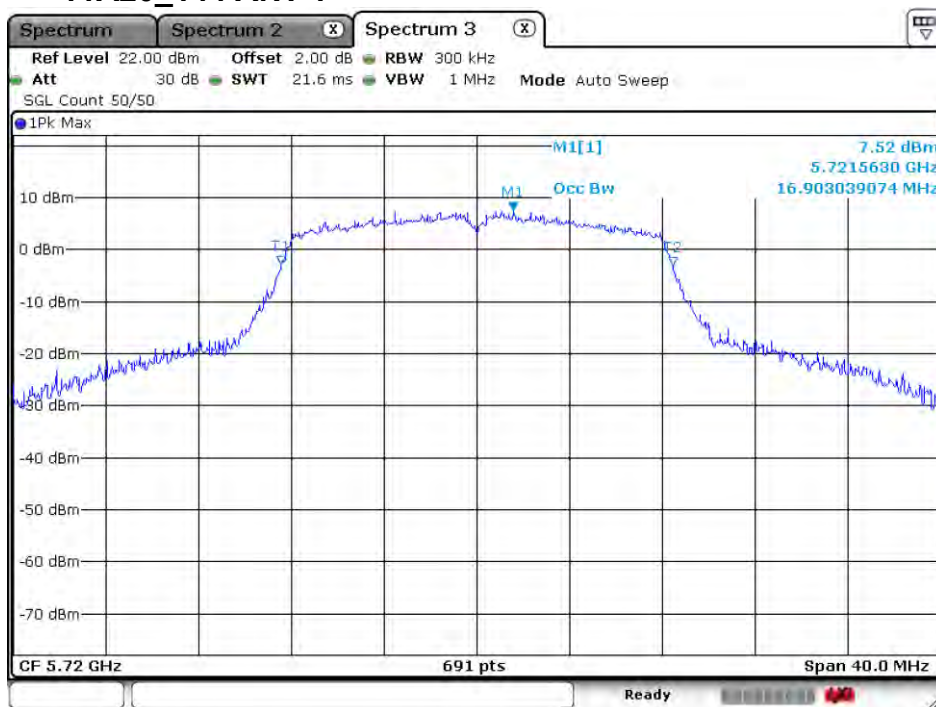
11A20_140 ANT 1



Date: 2.NOV.2019 00:32:47

4.7.2.7

11A20_144 ANT 1

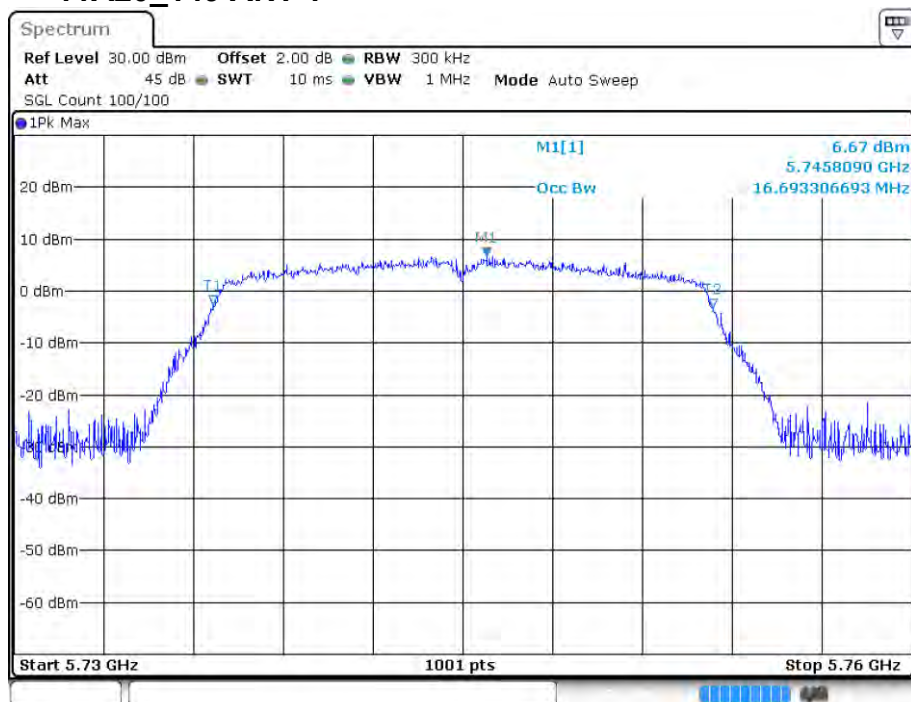


Date: 14.DEC.2019 03:42:44



4.7.2.8

11A20_149 ANT 1



Date: 2.NOV.2019 00:35:14

4.7.2.9

11A20_165 ANT 1

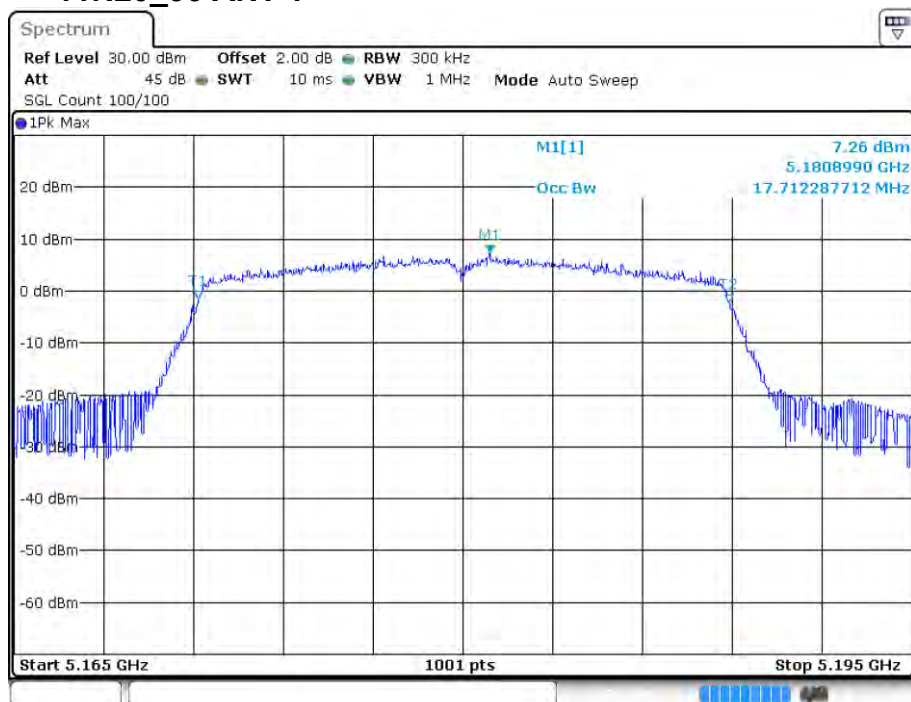


Date: 2.NOV.2019 00:37:24



4.7.2.10

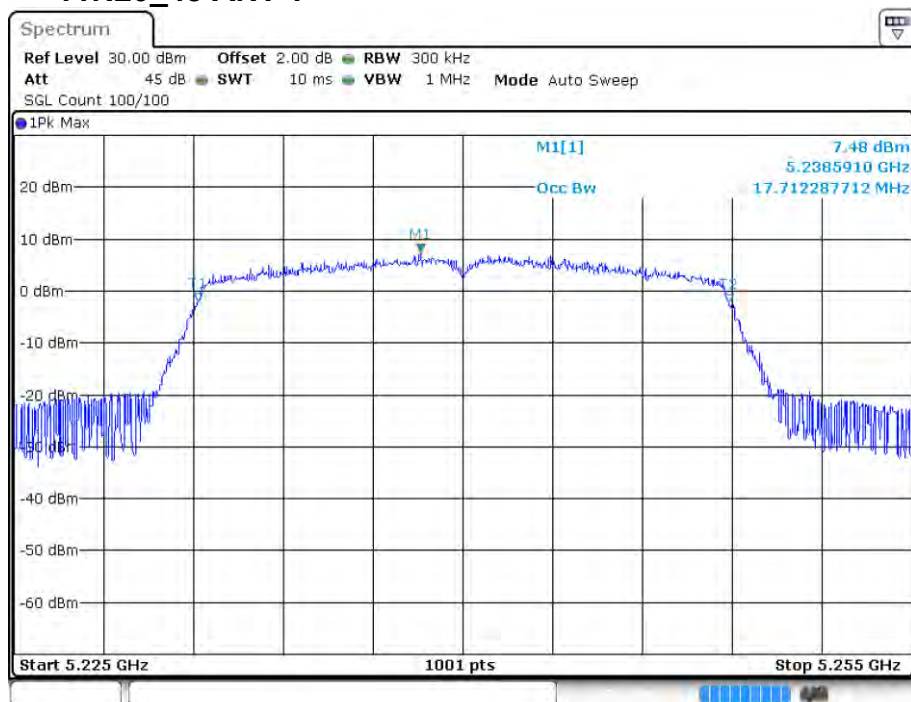
11N20_36 ANT 1



Date: 2.NOV.2019 00:39:31

4.7.2.11

11N20_48 ANT 1



Date: 2.NOV.2019 00:40:24



4.7.2.12

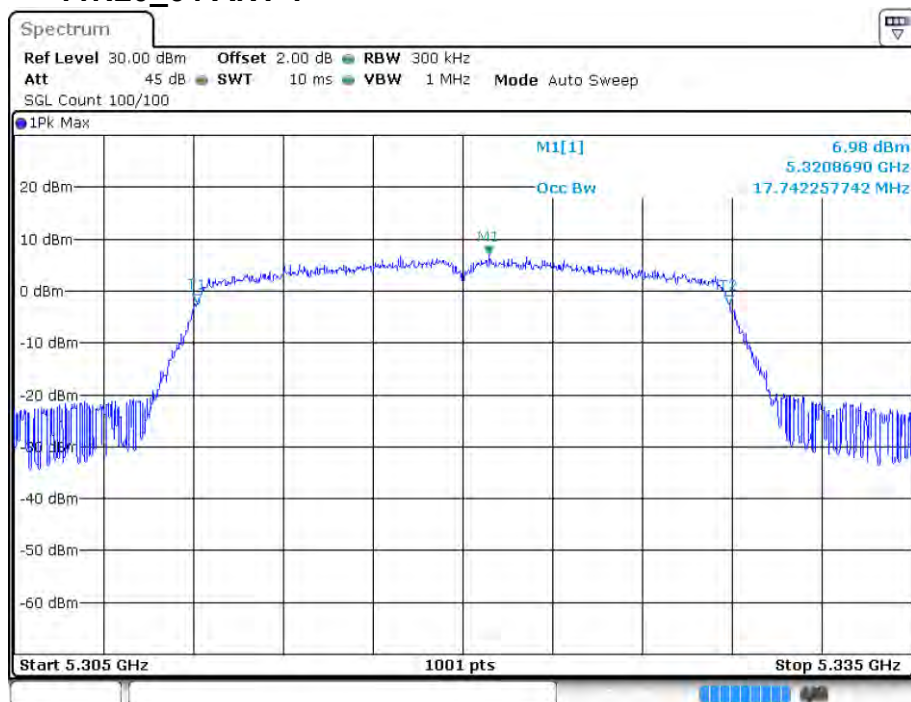
11N20_52 ANT 1



Date: 2.NOV.2019 00:41:29

4.7.2.13

11N20_64 ANT 1



Date: 2.NOV.2019 00:42:22

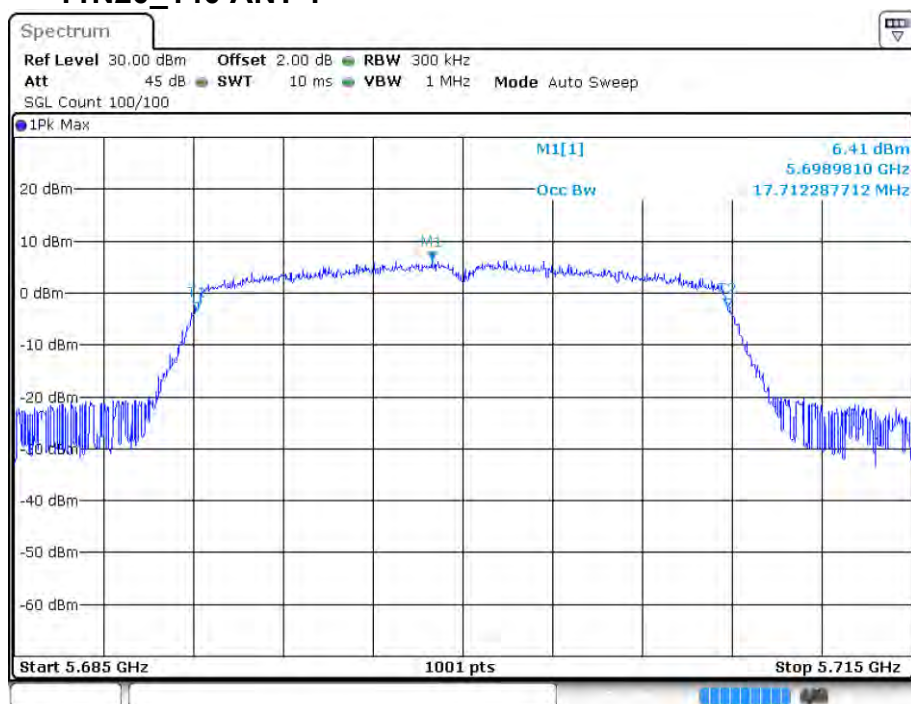


4.7.2.14 11N20_100 ANT 1



Date: 2.NOV.2019 00:43:36

4.7.2.15 11N20_140 ANT 1

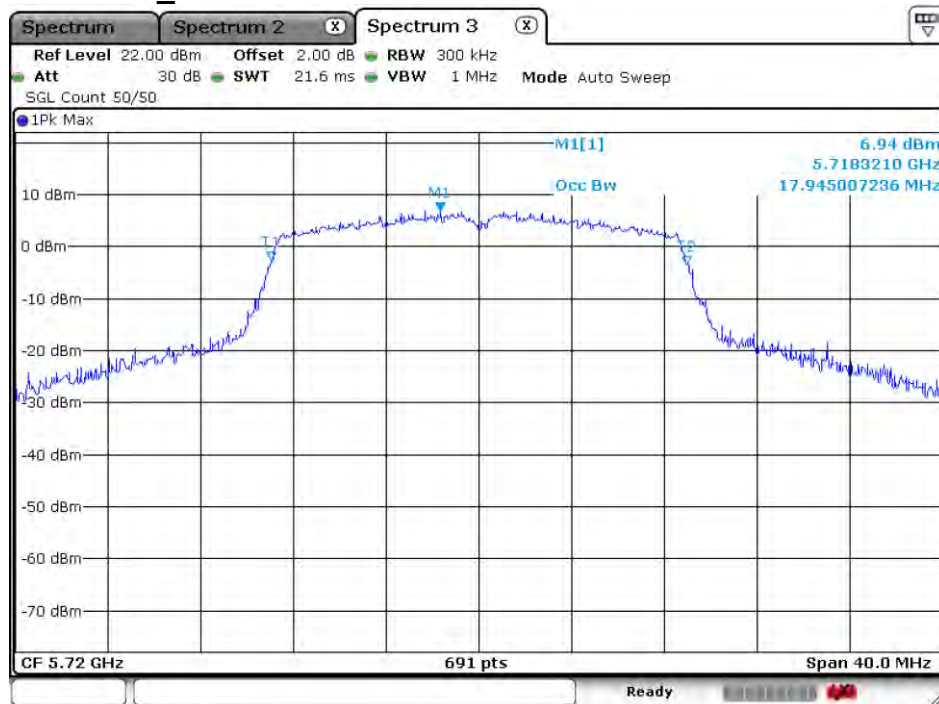


Date: 2.NOV.2019 00:44:31



4.7.2.16

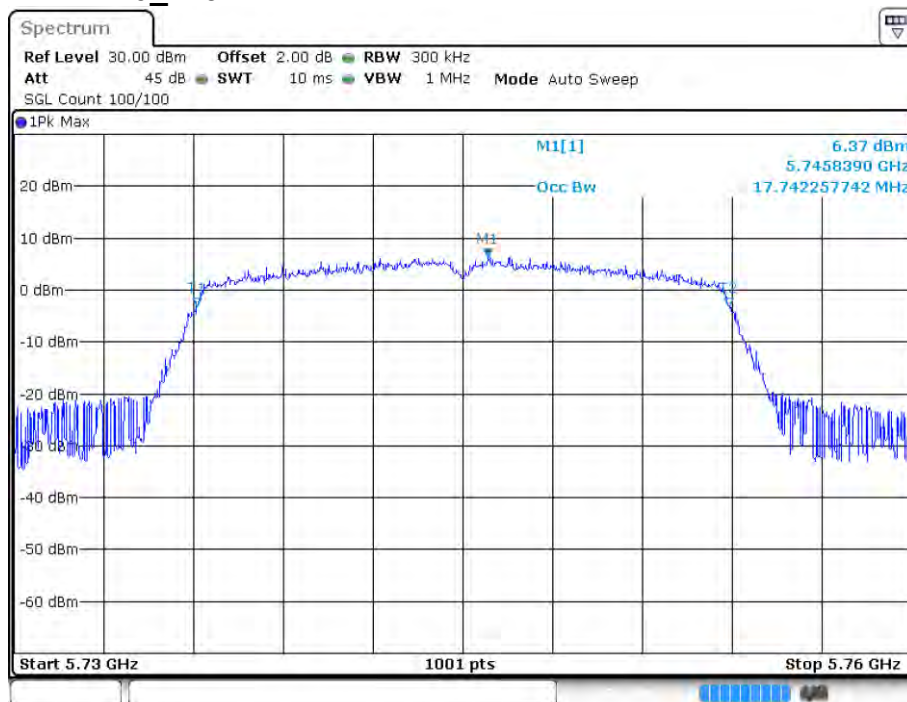
11N20_144 ANT 1



Date: 14.DEC.2019 03:43:26

4.7.2.17

11N20_149 ANT 1

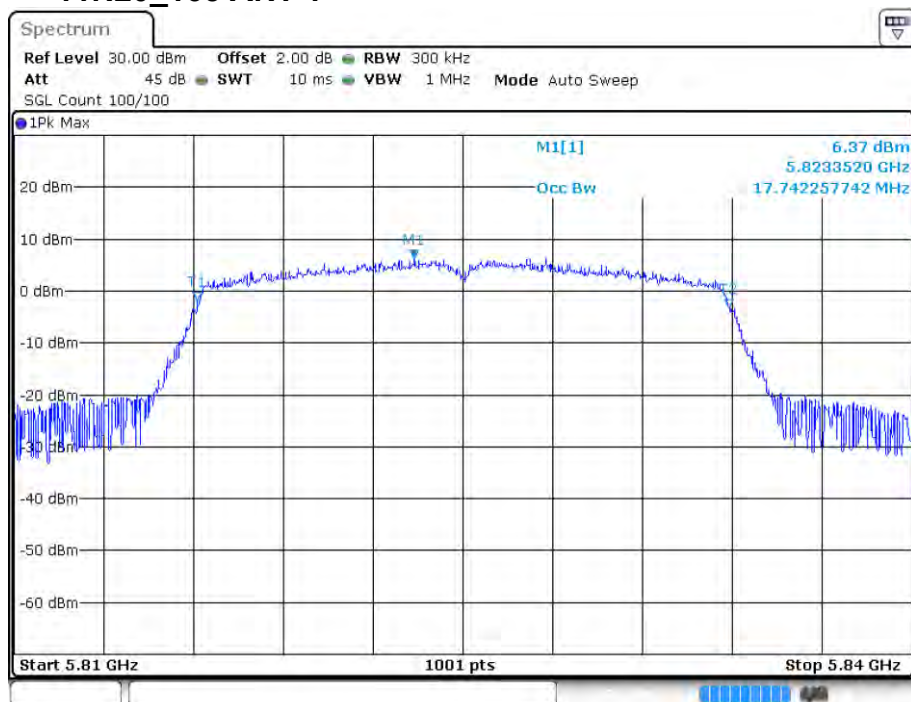


Date: 2.NOV.2019 00:45:51



4.7.2.18

11N20_165 ANT 1



Date: 2.NOV.2019 00:46:42

4.7.2.19

11N40_38 ANT 1

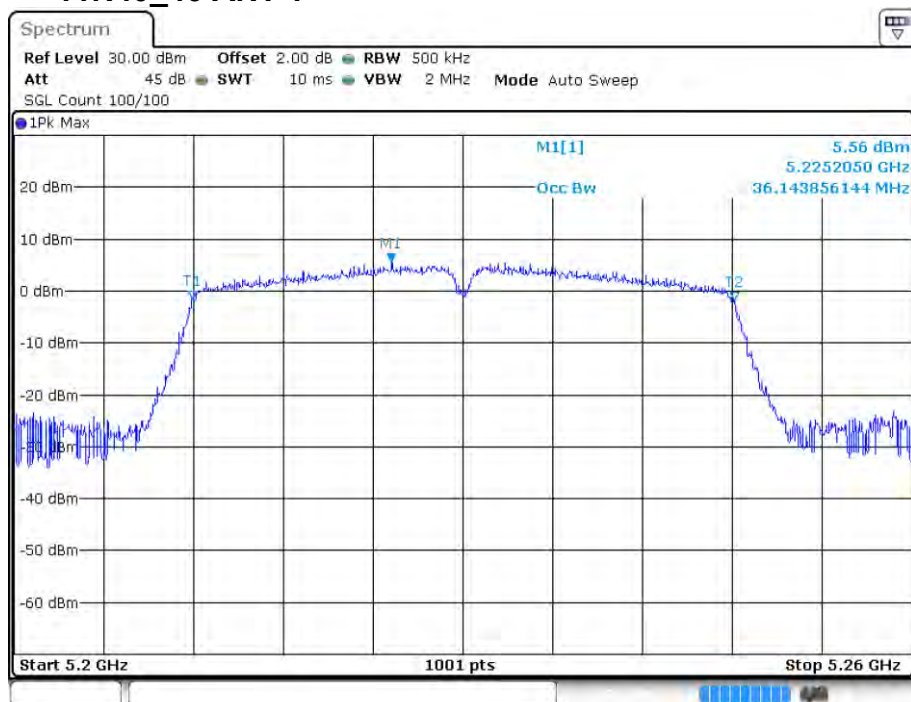


Date: 2.NOV.2019 01:02:48



4.7.2.20

11N40_46 ANT 1



Date: 2.NOV.2019 01:04:09

4.7.2.21

11N40_54 ANT 1

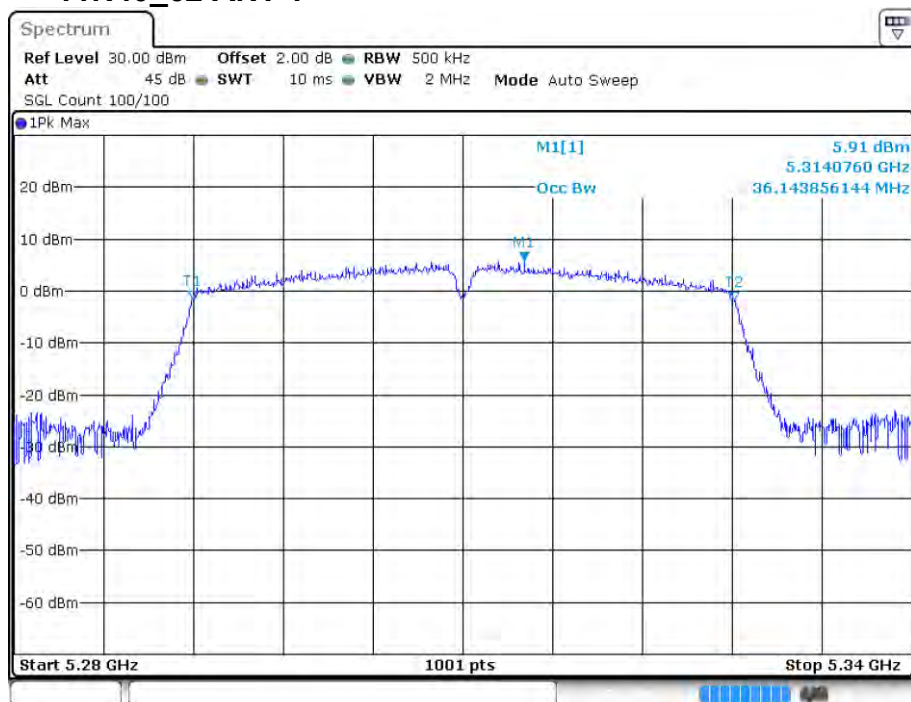


Date: 2.NOV.2019 01:06:33



4.7.2.22

11N40_62 ANT 1



Date: 2.NOV.2019 01:08:51

4.7.2.23

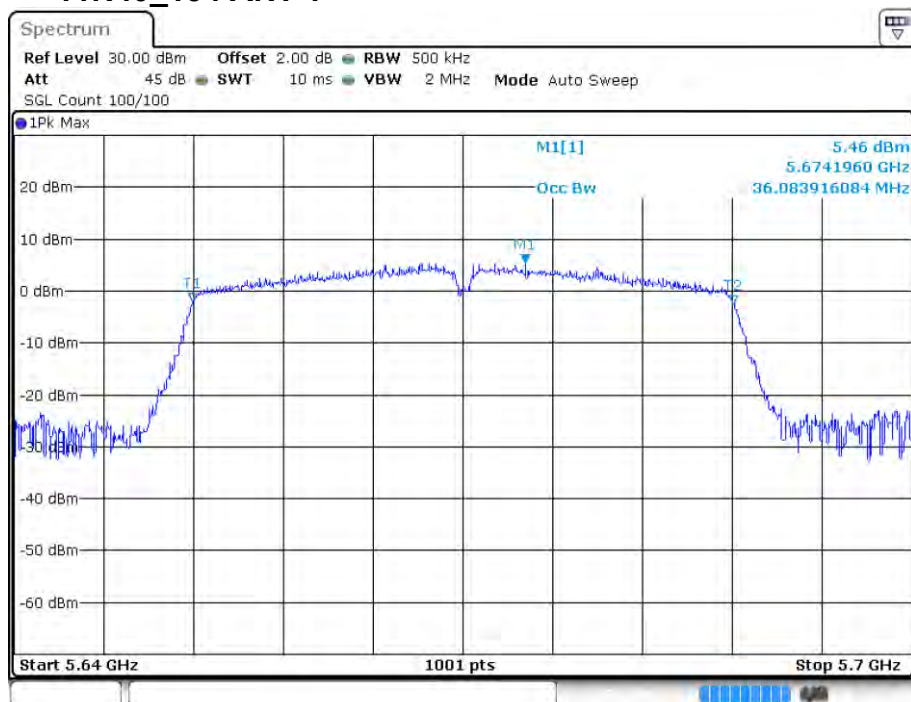
11N40_102 ANT 1



Date: 2.NOV.2019 01:10:08

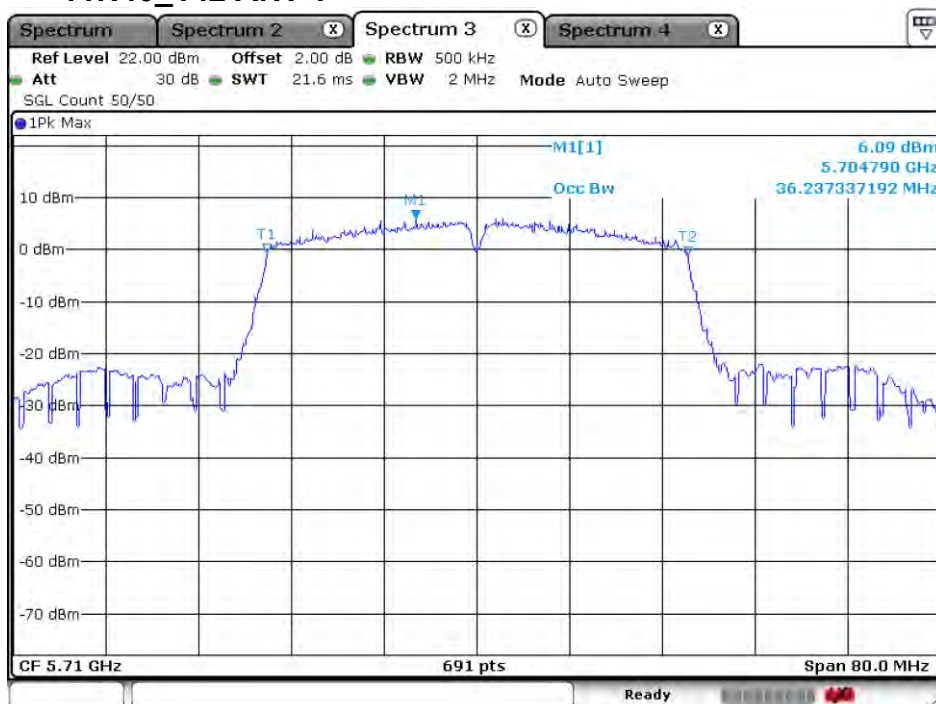


4.7.2.24 11N40_134 ANT 1



Date: 2.NOV.2019 01:11:50

4.7.2.25 11N40_142 ANT 1

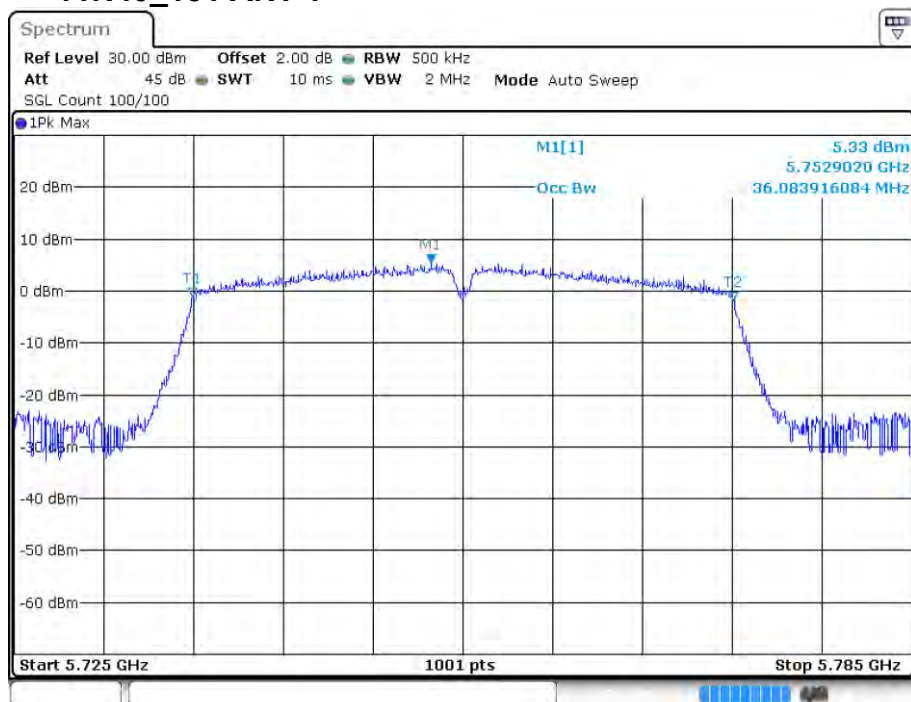


Date: 14.DEC.2019 06:08:21



4.7.2.26

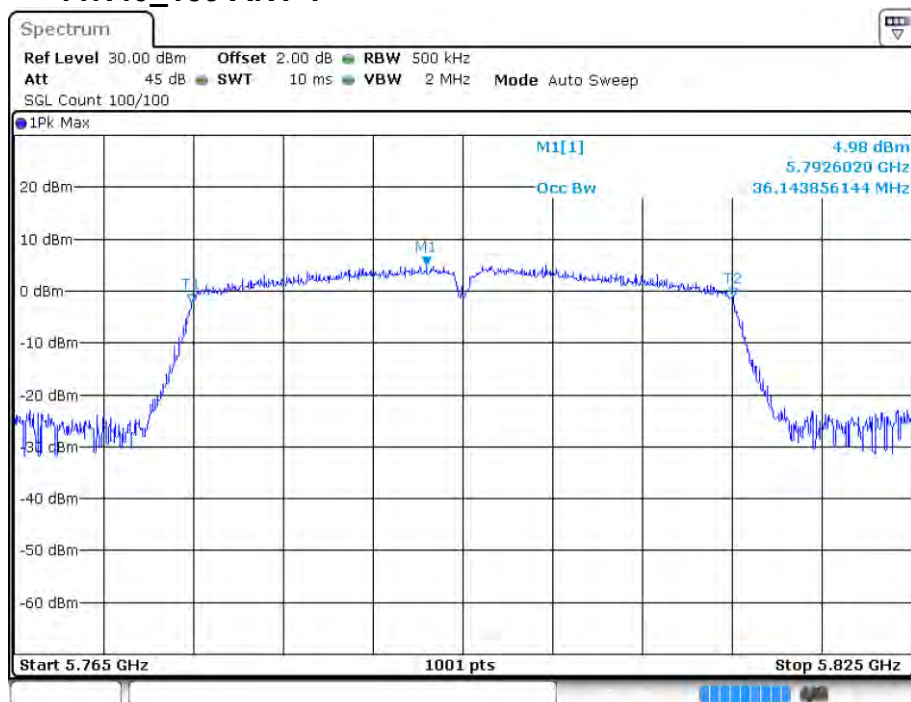
11N40_151 ANT 1



Date: 2.NOV.2019 01:13:48

4.7.2.27

11N40_159 ANT 1

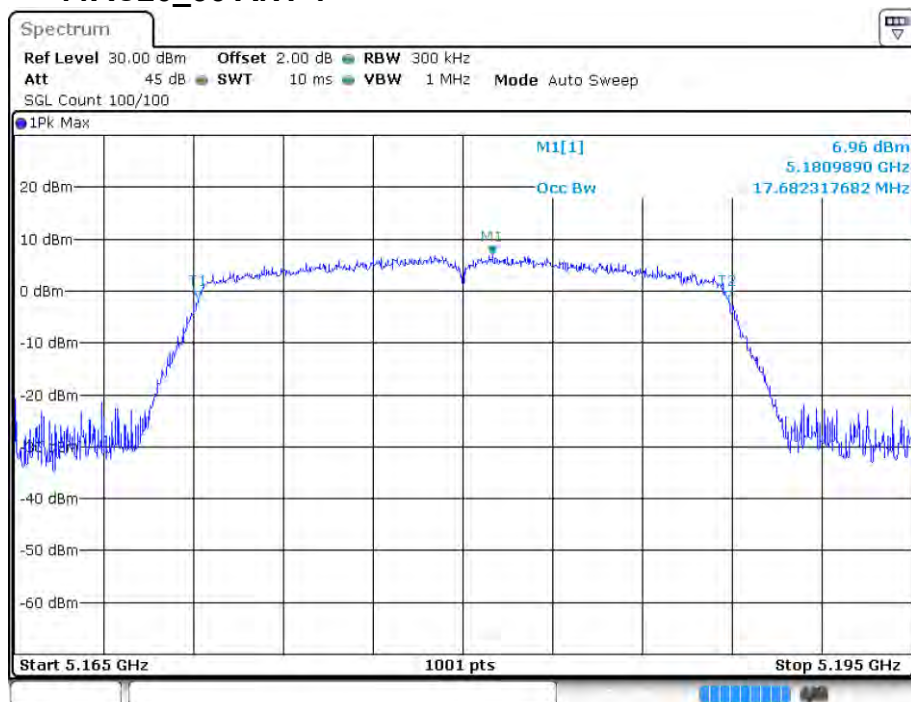


Date: 2.NOV.2019 01:15:01



4.7.2.28

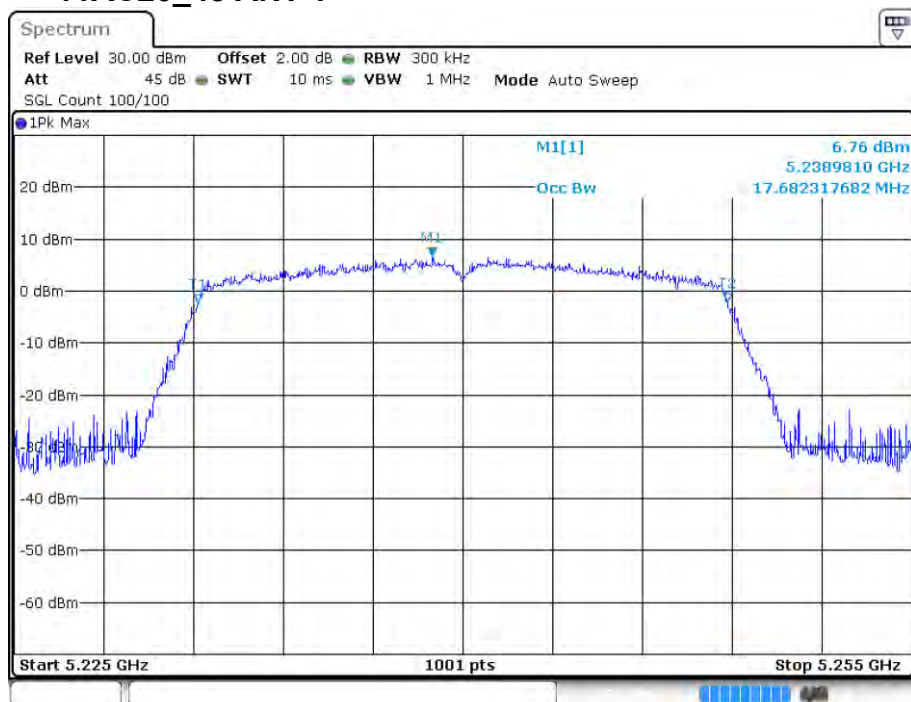
11AC20_36 ANT 1



Date: 2.NOV.2019 00:48:26

4.7.2.29

11AC20_48 ANT 1



Date: 2.NOV.2019 00:50:59



4.7.2.30

11AC20_52 ANT 1



Date: 2.NOV.2019 00:52:26

4.7.2.31

11AC20_64 ANT 1



Date: 2.NOV.2019 00:53:40



4.7.2.32

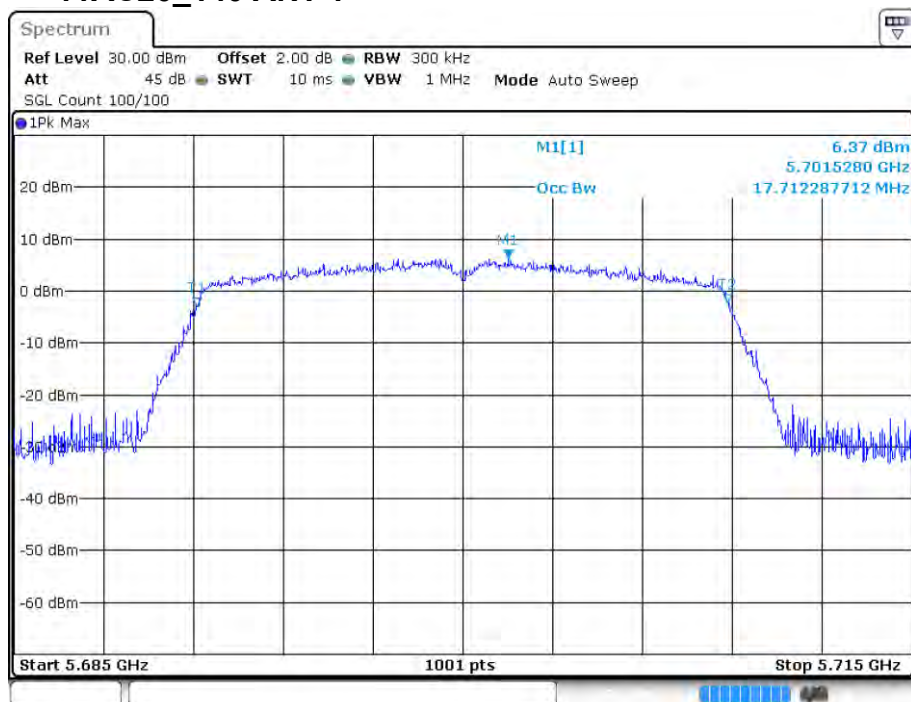
11AC20_100 ANT 1



Date: 2.NOV.2019 00:55:55

4.7.2.33

11AC20_140 ANT 1

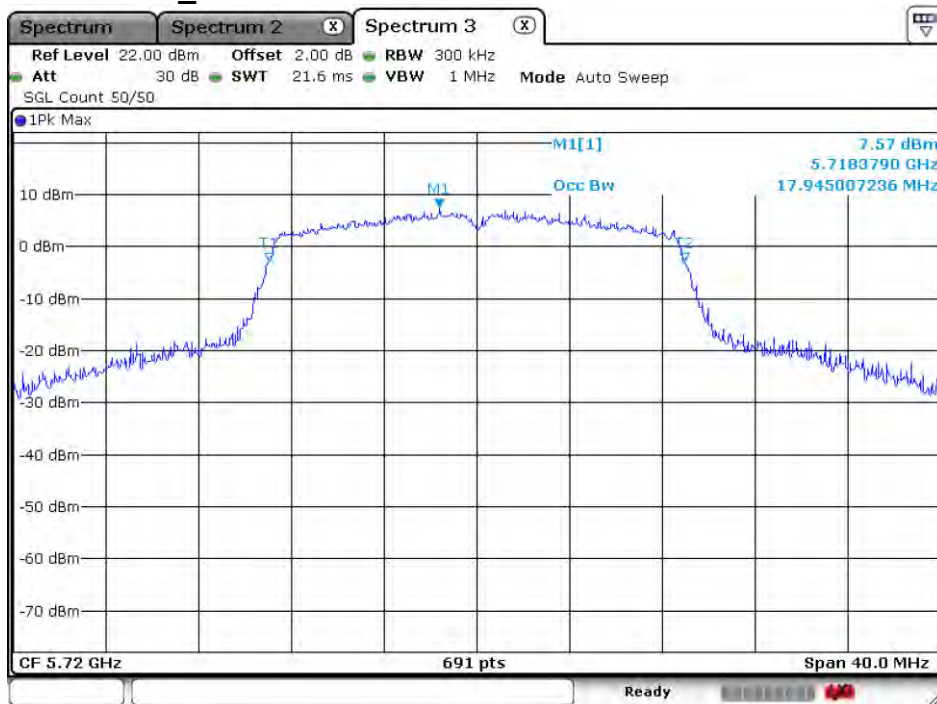


Date: 2.NOV.2019 00:57:24



4.7.2.34

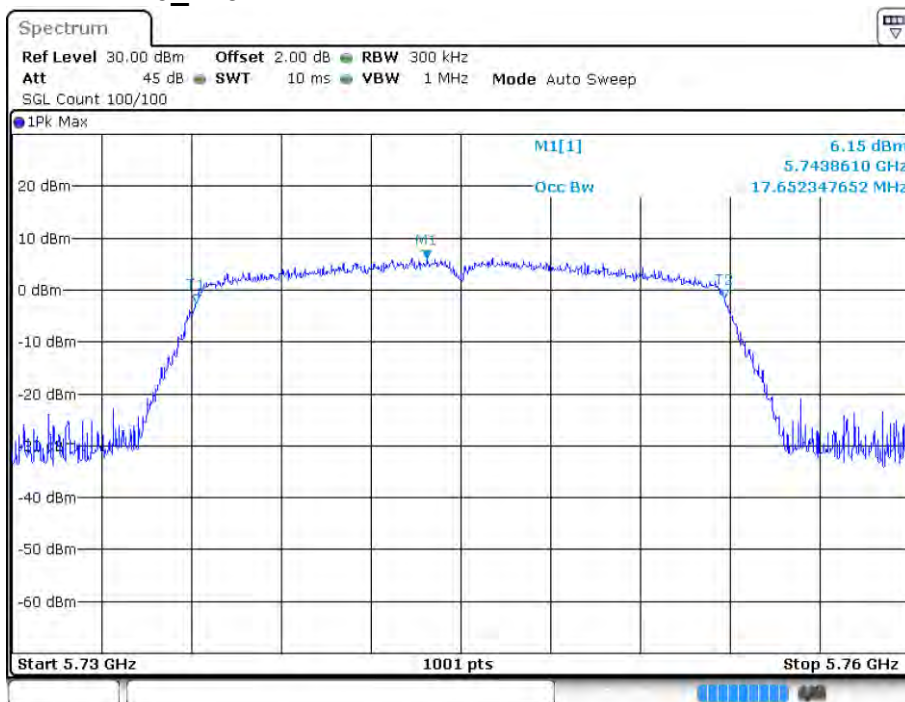
11AC20_144 ANT 1



Date: 14.DEC.2019 03:47:58

4.7.2.35

11AC20_149 ANT 1



Date: 2.NOV.2019 00:58:53



4.7.2.36

11AC20_165 ANT 1



Date: 2.NOV.2019 00:59:56

4.7.2.37

11AC40_38 ANT 1

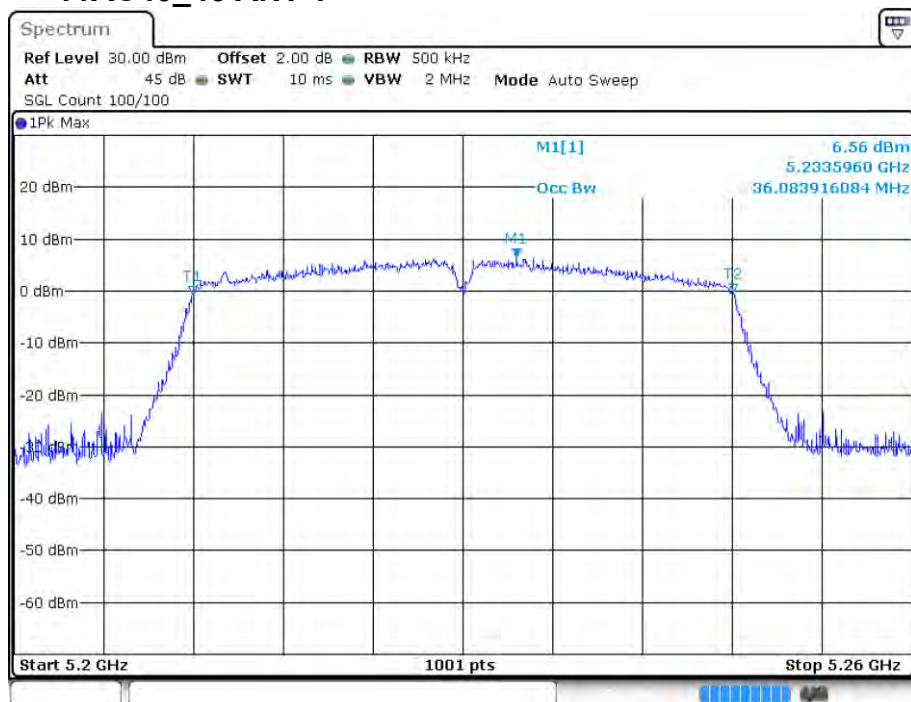


Date: 2.NOV.2019 04:39:44



4.7.2.38

11AC40_46 ANT 1



Date: 2.NOV.2019 04:40:44

4.7.2.39

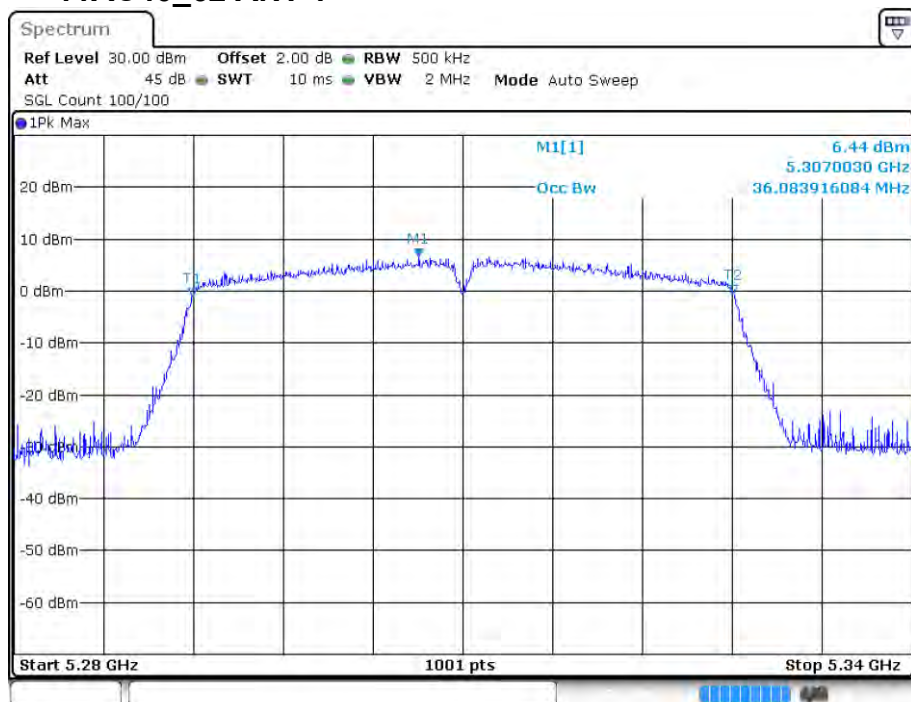
11AC40_54 ANT 1



Date: 2.NOV.2019 04:41:56



4.7.2.40 11AC40_62 ANT 1



Date: 2.NOV.2019 04:42:47

4.7.2.41 11AC40_102 ANT 1



Date: 2.NOV.2019 04:44:46

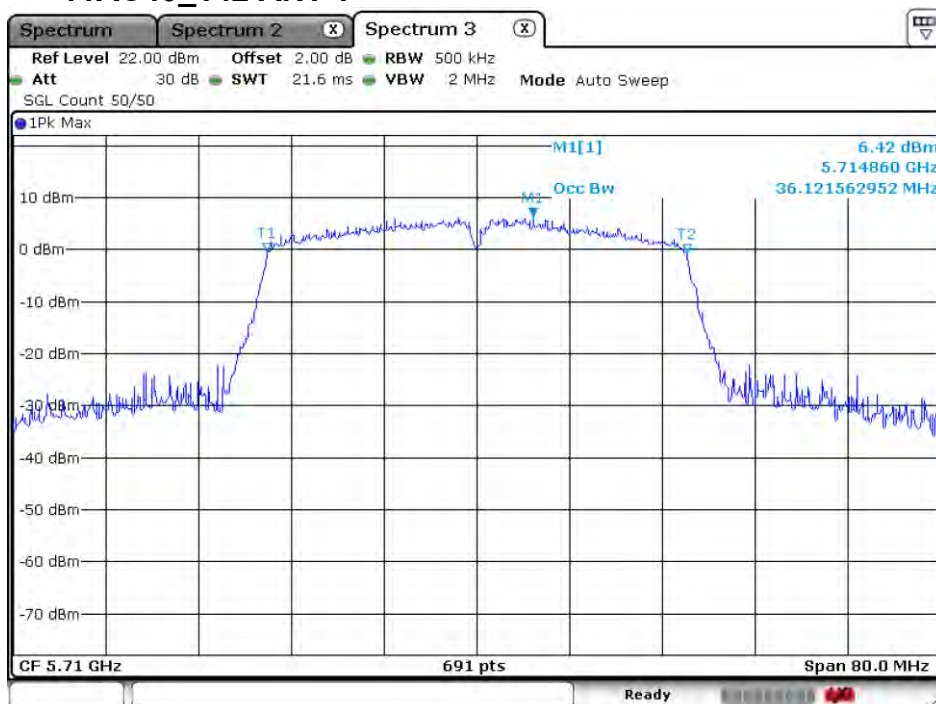


4.7.2.42 11AC40_134 ANT 1



Date: 2.NOV.2019 04:46:18

4.7.2.43 11AC40_142 ANT 1



Date: 14.DEC.2019 05:57:21



4.7.2.44 11AC40_151 ANT 1



Date: 2.NOV.2019 04:48:44

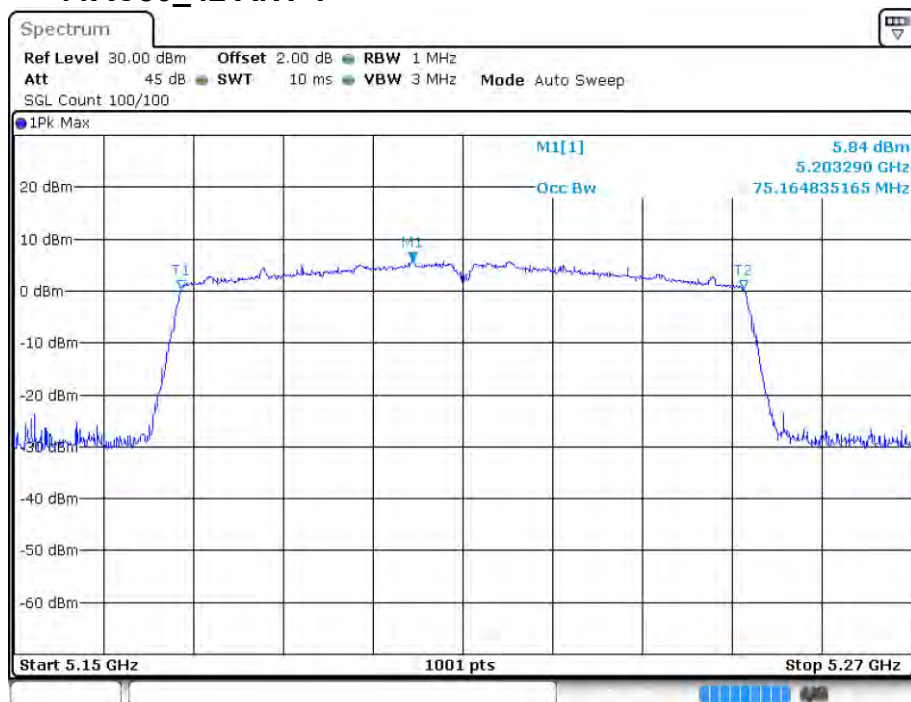
4.7.2.45 11AC40_159 ANT 1



Date: 2.NOV.2019 04:49:49

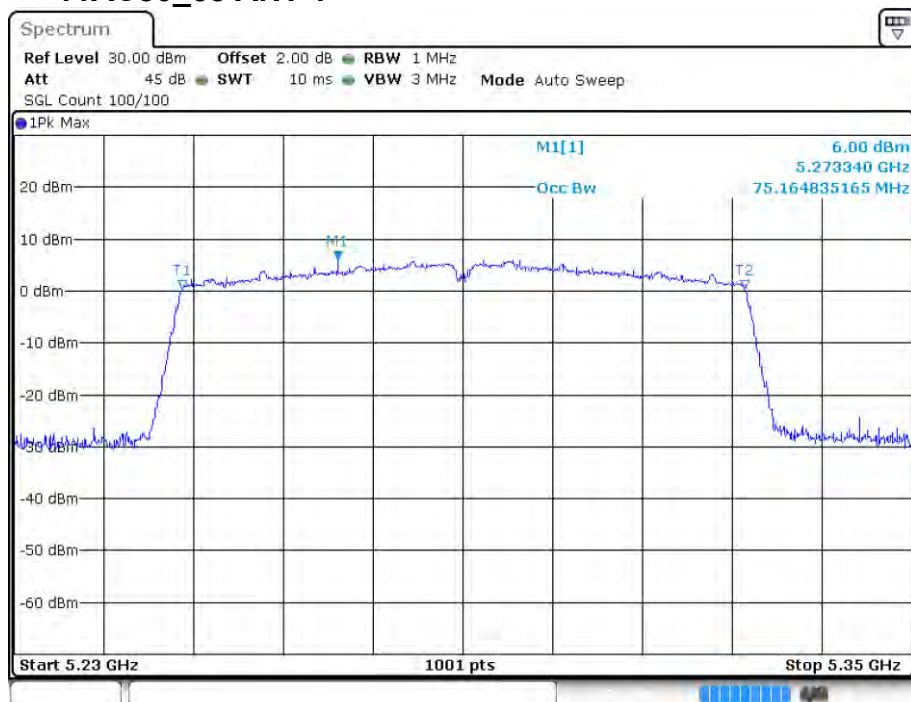


4.7.2.46 11AC80_42 ANT 1



Date: 2.NOV.2019 04:52:33

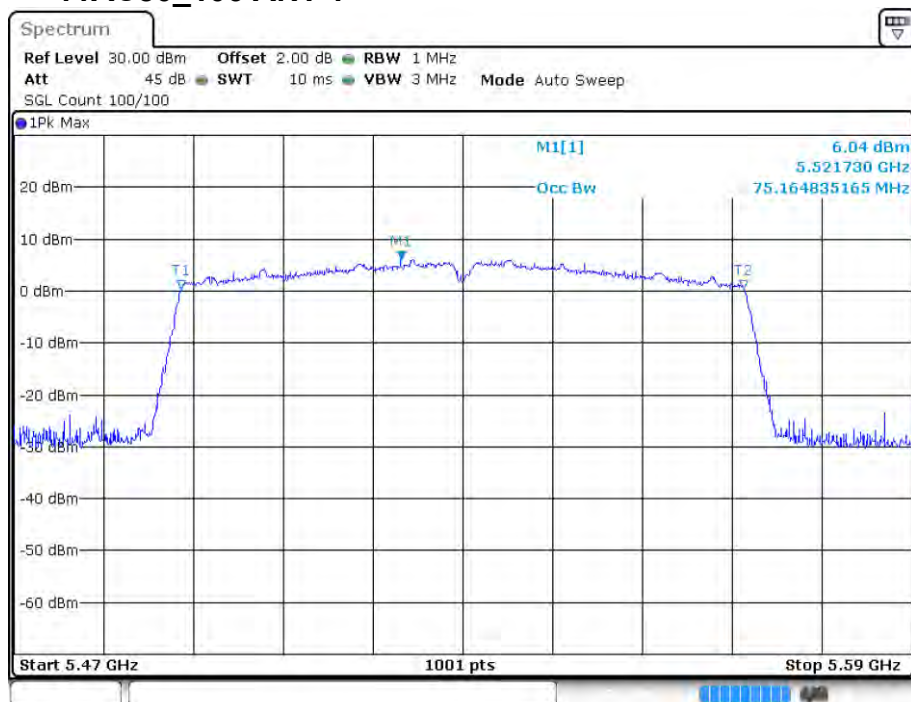
4.7.2.47 11AC80_58 ANT 1



Date: 2.NOV.2019 04:54:01

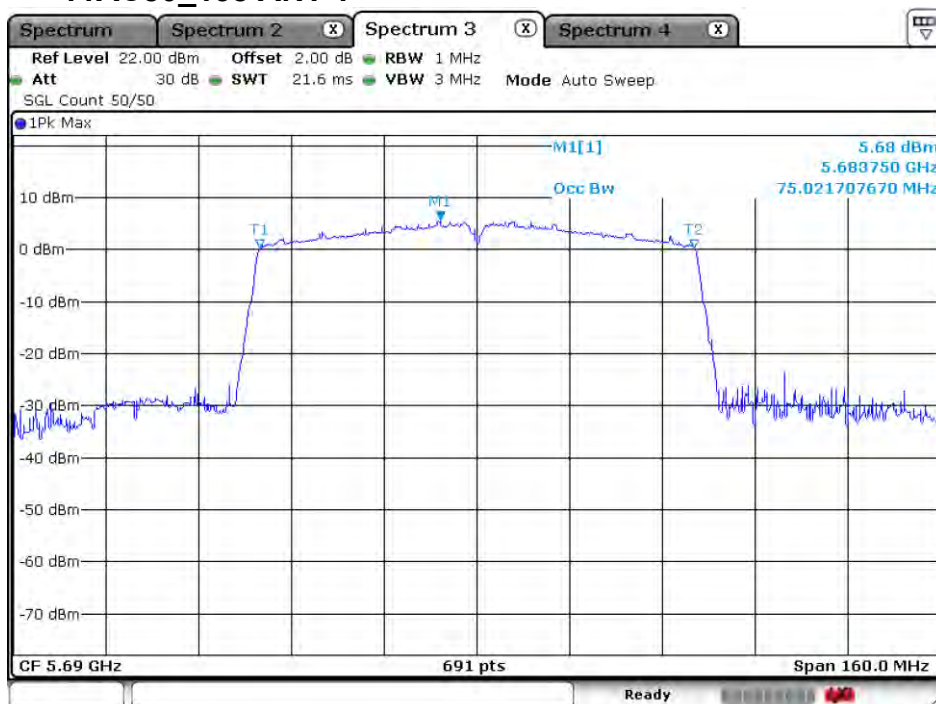


4.7.2.48 11AC80_106 ANT 1



Date: 2.NOV.2019 04:56:56

4.7.2.49 11AC80_138 ANT 1

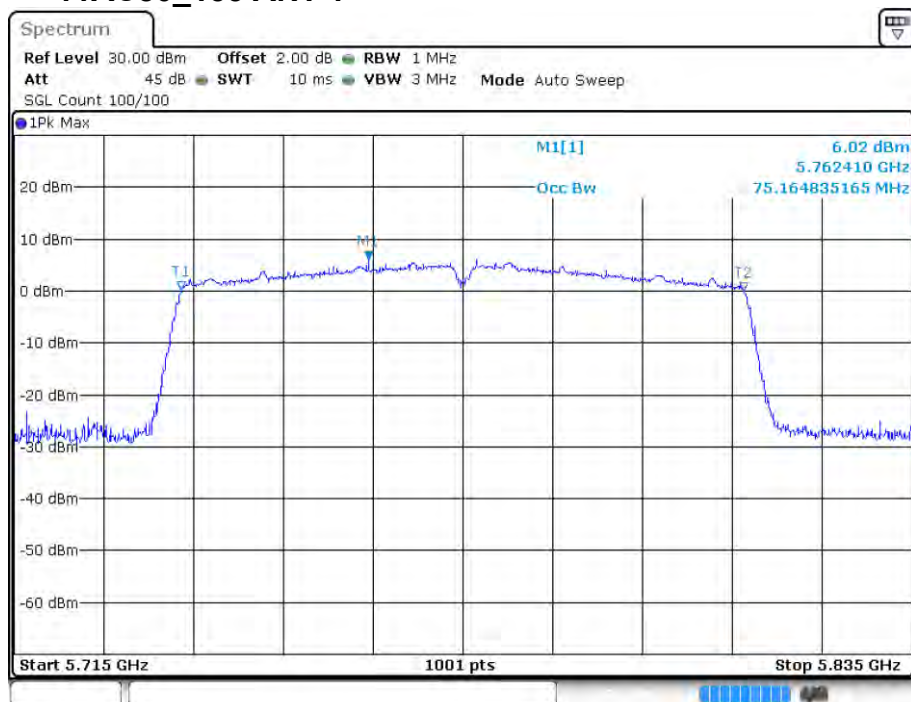


Date: 14.DEC.2019 06:12:21



4.7.2.50

11AC80_155 ANT 1

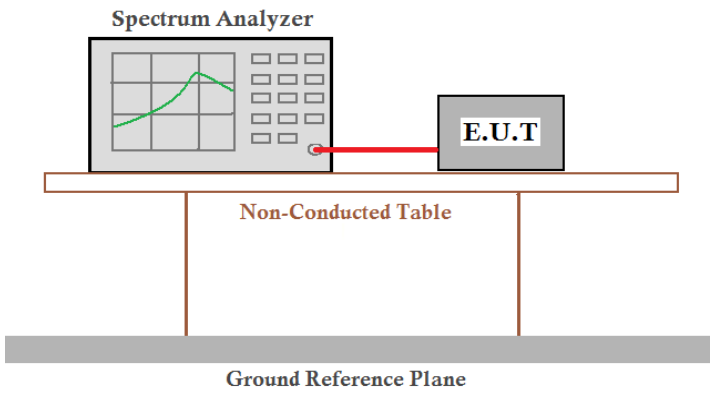


Date: 2.NOV.2019 04:59:52





4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	



4.8.1 Test Results For Power Density

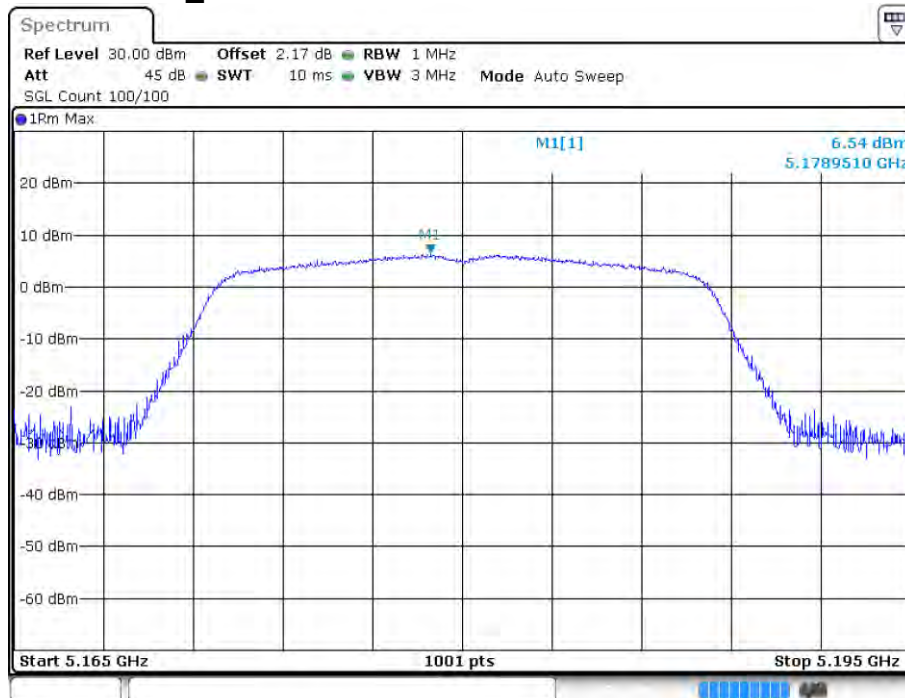
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.)	Unit	Verdict
11A20	36	5180	ANT 1	6.54	dBm/MHz	PASS
	48	5240	ANT 1	6.31	dBm/MHz	PASS
	52	5260	ANT 1	6.43	dBm/MHz	PASS
	64	5320	ANT 1	6.09	dBm/MHz	PASS
	100	5500	ANT 1	6.36	dBm/MHz	PASS
	140	5700	ANT 1	5.64	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	5.29	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.29	dBm/500KHz	PASS
	149	5745	ANT 1	4.26	dBm/500KHz	PASS
	165	5825	ANT 1	4.16	dBm/500KHz	PASS
11N20	36	5180	ANT 1	6.32	dBm/MHz	PASS
	48	5240	ANT 1	6.04	dBm/MHz	PASS
	52	5260	ANT 1	5.52	dBm/MHz	PASS
	64	5320	ANT 1	6.17	dBm/MHz	PASS
	100	5500	ANT 1	5.48	dBm/MHz	PASS
	140	5700	ANT 1	5.54	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	4.89	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.53	dBm/500KHz	PASS
	149	5745	ANT 1	4.28	dBm/500KHz	PASS
	165	5825	ANT 1	4.21	dBm/500KHz	PASS
11N40	38	5190	ANT 1	3	dBm/MHz	PASS
	46	5230	ANT 1	2.36	dBm/MHz	PASS
	54	5270	ANT 1	2.17	dBm/MHz	PASS
	62	5310	ANT 1	2.44	dBm/MHz	PASS
	102	5510	ANT 1	2.32	dBm/MHz	PASS
	134	5670	ANT 1	2.25	dBm/MHz	PASS
	144(BandII-C)	5710	ANT 1	1.62	dBm/MHz	PASS
	144(BandIII)	5710	ANT 1	-4.62	dBm/500KHz	PASS
	151	5755	ANT 1	1.14	dBm/500KHz	PASS
	159	5795	ANT 1	0.63	dBm/500KHz	PASS
11AC20	36	5180	ANT 1	6.23	dBm/MHz	PASS
	48	5240	ANT 1	5.78	dBm/MHz	PASS
	52	5260	ANT 1	5.69	dBm/MHz	PASS
	64	5320	ANT 1	6.16	dBm/MHz	PASS
	100	5500	ANT 1	5.85	dBm/MHz	PASS
	140	5700	ANT 1	5.43	dBm/MHz	PASS
	142(BandII-C)	5720	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5720	ANT 1	0.56	dBm/500KHz	PASS
	149	5745	ANT 1	4.12	dBm/500KHz	PASS
	165	5825	ANT 1	4.14	dBm/500KHz	PASS
11AC40	38	5190	ANT 1	3.58	dBm/MHz	PASS
	46	5230	ANT 1	3.28	dBm/MHz	PASS



	54	5270	ANT 1	3.41	dBm/MHz	PASS
	62	5310	ANT 1	3.47	dBm/MHz	PASS
	102	5510	ANT 1	3.44	dBm/MHz	PASS
	134	5670	ANT 1	3.11	dBm/MHz	PASS
	142(BandII-C)	5710	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5710	ANT 1	0.56	dBm/500KHz	PASS
	151	5755	ANT 1	1.75	dBm/500KHz	PASS
	159	5795	ANT 1	1.61	dBm/500KHz	PASS
11AC80	42	5210	ANT 1	-0.34	dBm/MHz	PASS
	58	5290	ANT 1	-0.68	dBm/MHz	PASS
	106	5530	ANT 1	-0.3	dBm/MHz	PASS
	138(BandII-C)	5690	ANT 1	-2.75	dBm/MHz	PASS
	138(BandIII)	5690	ANT 1	-9.22	dBm/500KHz	PASS
	155	5775	ANT 1	-2.14	dBm/500KHz	PASS

4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1

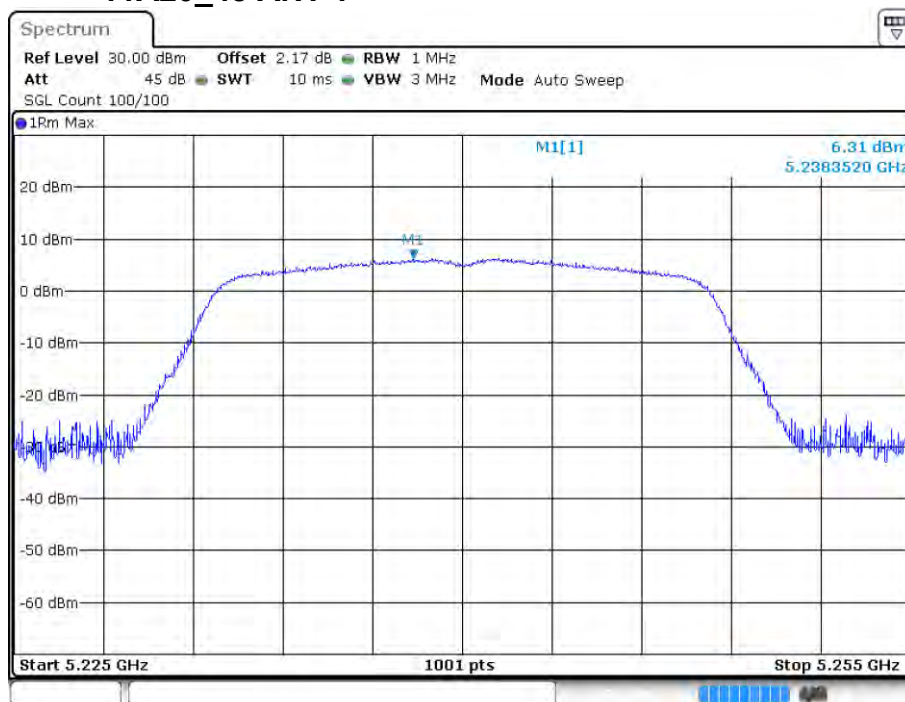


Date: 2.NOV.2019 00:26:39



4.8.2.2

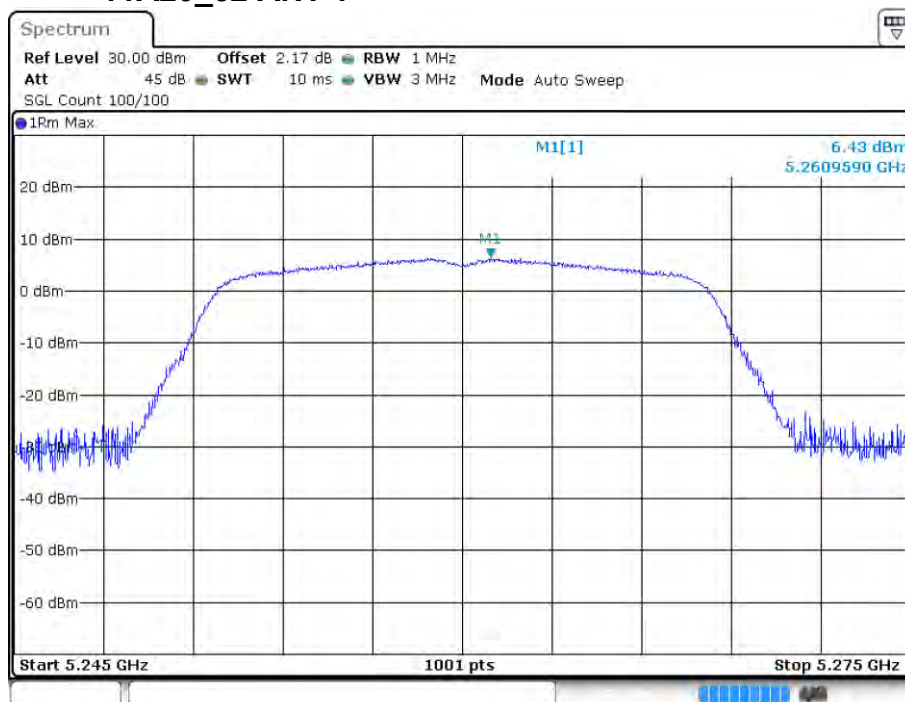
11A20_48 ANT 1



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4.8.2.3

11A20_52 ANT 1



Date: 2.NOV.2019 00:28:56



4.8.2.4

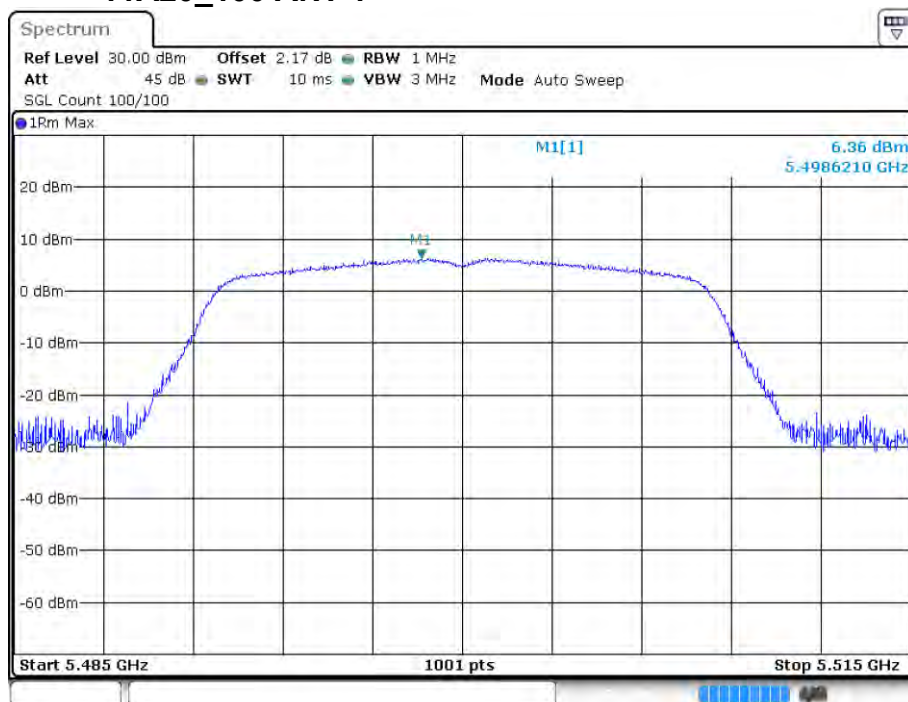
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4.8.2.5

11A20_100 ANT 1



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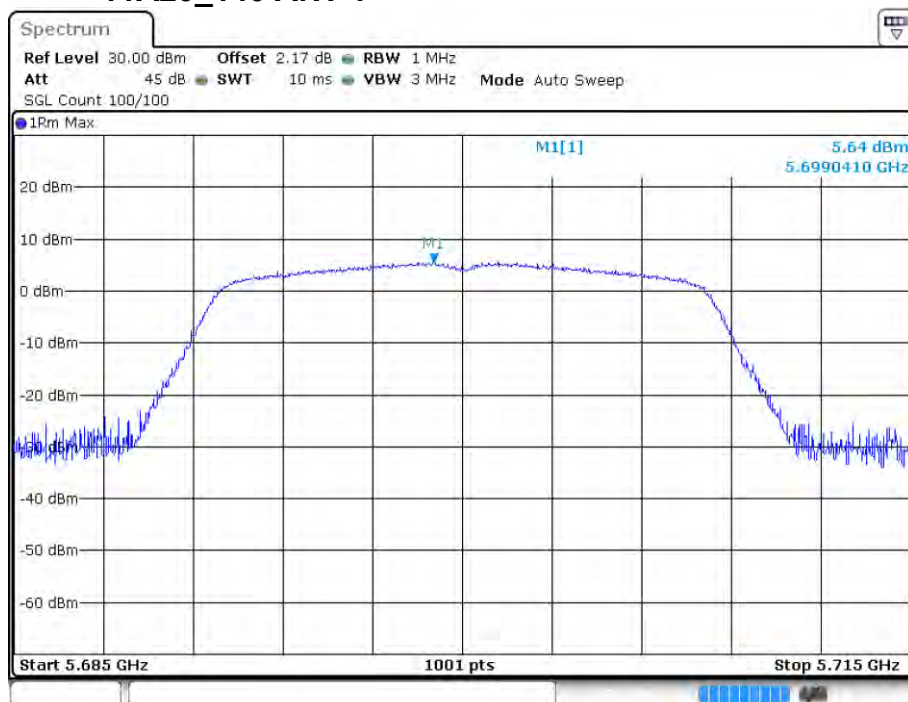


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4.8.2.6

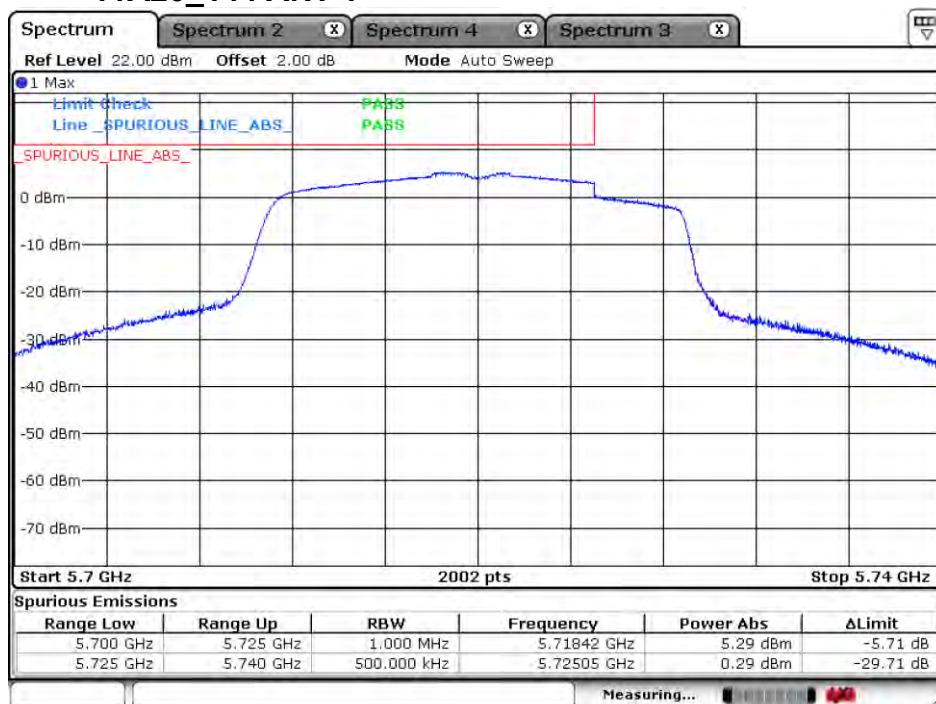
11A20_140 ANT 1



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4.8.2.7

11A20_144 ANT 1



Date: 14.DEC.2019 03:39:06



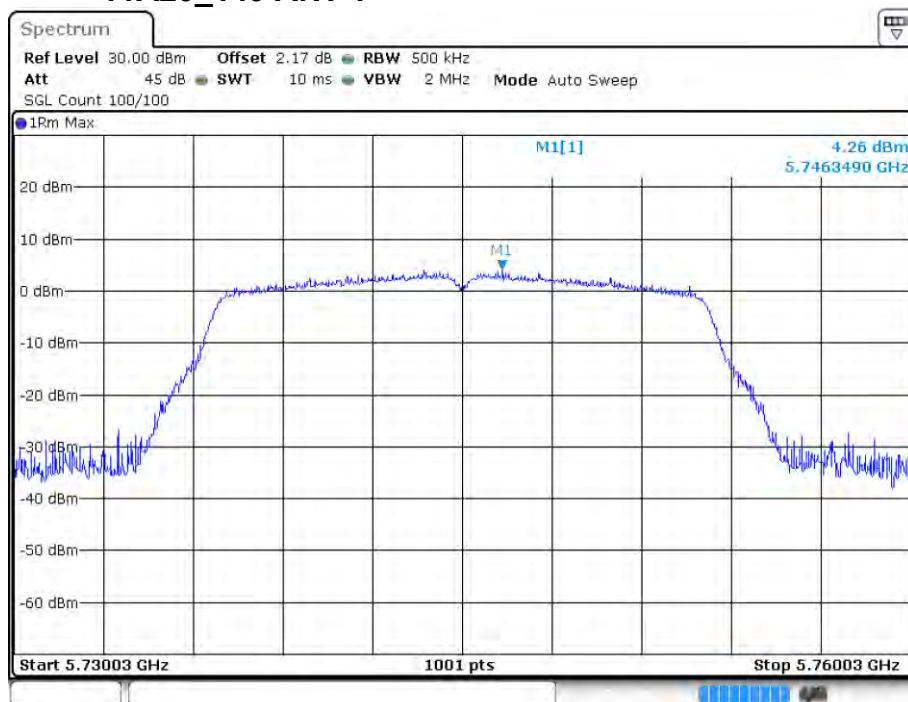
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4.8.2.8

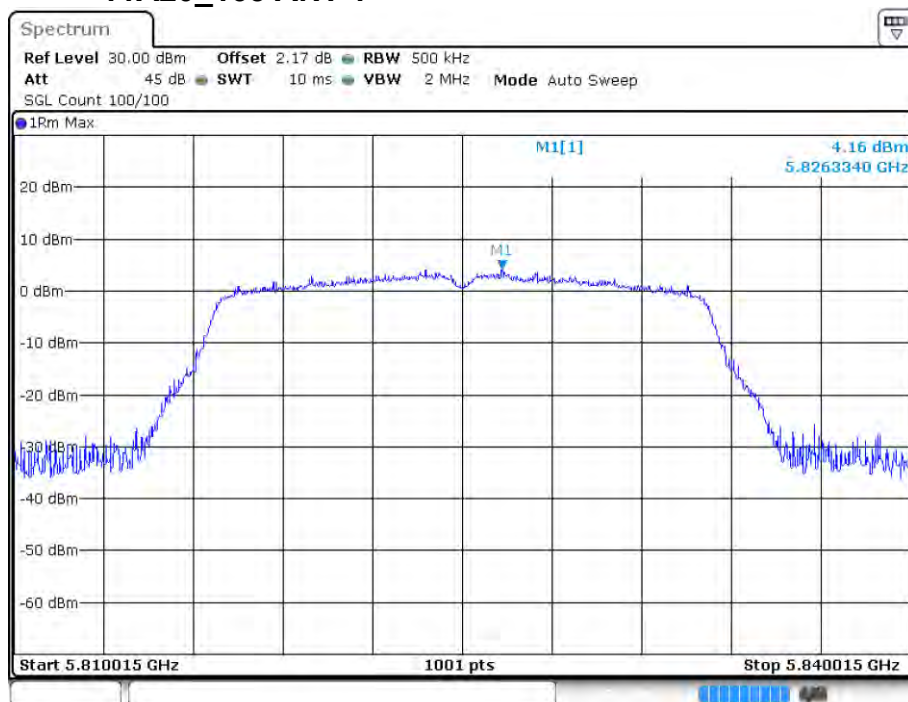
11A20_149 ANT 1



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4.8.2.9

11A20_165 ANT 1



Date: 2.NOV.2019 00:37:50

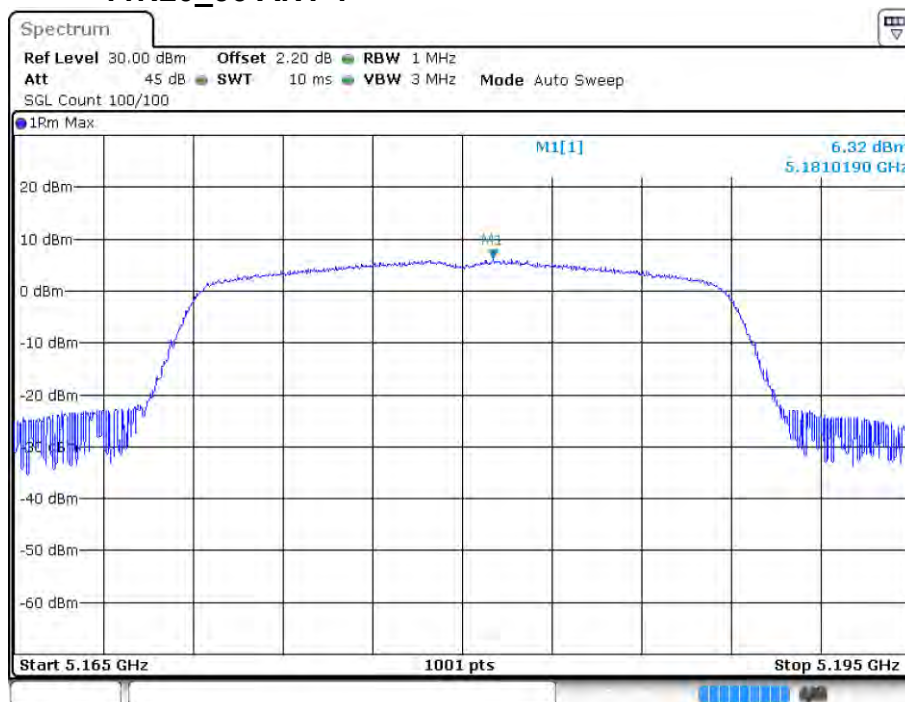


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4.8.2.10

11N20_36 ANT 1



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4.8.2.11

11N20_48 ANT 1



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4.8.2.12

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4.8.2.13

11N20_64 ANT 1



Date: 2.NOV.2019 00:42:43

