



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

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Report No.: SZEM170800926003
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FCC REPORT

Application No: SZEM1708009260RG
Applicant: Huawei Technologies Co., Ltd.
Manufacturer: Huawei Technologies Co., Ltd.
Factory: DBG TECHNOLOGY CO., LTD
Product Name: HUAWEI MediaPad M3 Lite 10 wp
Model No.: HDN-W09
Trade Mark: HUAWEI
FCC ID: QISHDN-W09
Standards: 47 CFR Part 15, Subpart E (2015)
Test Method: KDB 789033 D02 v01r04
Date of Receipt: 2017-09-08
Date of Test: 2017-09-11 to 2017-10-24
Date of Issue: 2017-10-24

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

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

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2017-10-24		Original

Authorized for issue by:				
Tested By		 (David Chen) /Project Engineer		2017-10-24 Date
Checked By		 (Jim Huang) /Reviewer		2017-10-24 Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Section 15.203	ANSI C63.10: 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Conducted Output Power	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Section 15.407(e)	ANSI C63.10: 2013	PASS
Power Spectral Density	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Huawei Technologies Co., Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co., Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Factory:	DBG TECHNOLOGY CO., LTD
Address of Factory:	No.5, Yongda Road, Xiangshui River Industrial Area, Daya Bay, Huizhou, Guangdong, China

5.2 General Description of EUT

Product Name:	HUAWEI MediaPad M3 Lite 10 wp
Model No.:	HDN-W09
Trade Mark:	HUAWEI
Operation Frequency:	IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5150MHz to 5250MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5250MHz to 5350MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5470MHz to 5725MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz * The 5600-5650MHz can not be used.
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Sample Type:	Portable Device
Antenna Type:	Monopole
Antenna Gain:	2.4dBi
EUT Power Supply:	DC3.8V (1 x 3.8V Rechargeable battery) 6660mAh Battery: Charge by DC 4.35V
AC adaptor:	Model: HW-050200U01/HW-059200UHQ Input: AC100-240V 50/60Hz 0.5A Output: DC5.0V 2A or 9V 2A



Note:

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

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

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5220
	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	5300
	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	5600
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5590
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5610

For UNII Band III:

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



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

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

No tests were sub-contracted.



5.6 Test Facility

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

- **CNAS (No. CNAS L2929)**

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

- **A2LA (Certificate No. 3816.01)**

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

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC –Designation Number: CN1178**

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

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

- **Industry Canada (IC)**

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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None



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

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



5.11 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-10-09	2018-10-09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-14
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2017-09-28	2018-09-28
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2017-09-28	2018-09-28
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2017-09-28	2018-09-28
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-14
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09

RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-10-09	2018-10-09
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2017-03-06	2018-03-06
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2017-04-14	2018-04-14
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017-10-09	2018-10-09
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017-10-09	2018-10-09



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RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-05-10	2018-05-10
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-10-09	2018-10-09
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-14
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2017-05-10	2018-05-10
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2017-04-14	2018-04-14
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2017-07-06	2018-07-06
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14



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RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-10	2018-05-10
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2017-07-19	2018-07-19
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-10-09	2018-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24
7	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12
8	Low Noise Amplifier	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2017-10-09	2018-10-09
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



6 Test results and Measurement Data

6.1 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 2.4dBi.	



6.2 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.		



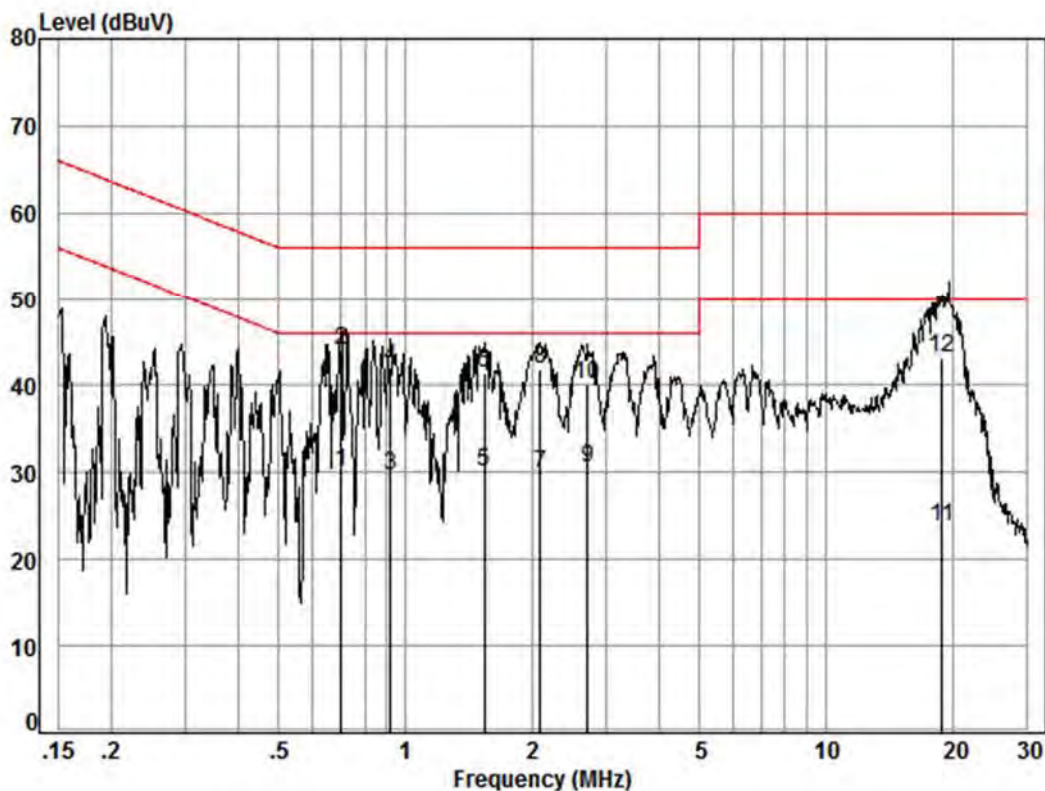
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer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

Live line:

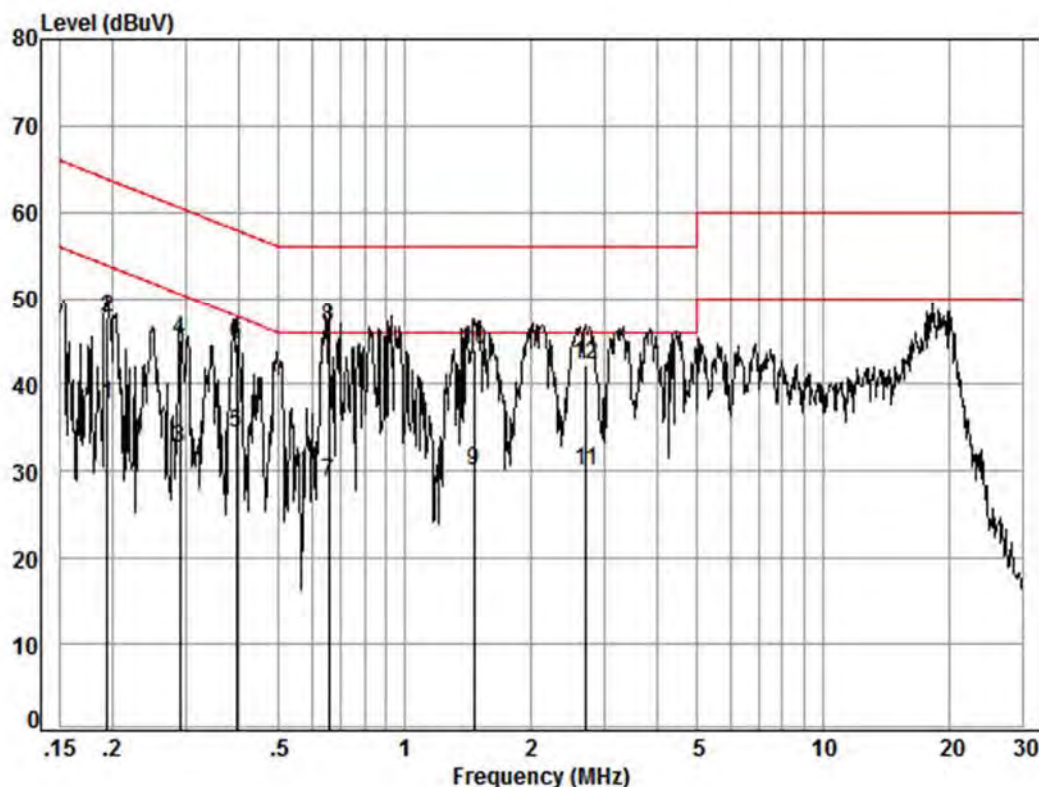


Site : Shielding Room
Condition: Line
Job No. : 09260RG
Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.70	0.02	9.64	20.51	30.17	46.00	-15.83	Average
2	0.70	0.02	9.64	34.46	44.12	56.00	-11.88	QP
3	0.92	0.02	9.64	19.99	29.65	46.00	-16.35	Average
4	0.92	0.02	9.64	32.33	41.99	56.00	-14.01	QP
5	1.54	0.02	9.65	20.45	30.12	46.00	-15.88	Average
6	1.54	0.02	9.65	31.64	41.31	56.00	-14.69	QP
7	2.10	0.02	9.66	20.22	29.90	46.00	-16.10	Average
8	2.10	0.02	9.66	32.20	41.88	56.00	-14.12	QP
9	2.72	0.02	9.66	20.82	30.50	46.00	-15.50	Average
10	2.72	0.02	9.66	30.41	40.09	56.00	-15.91	QP
11	18.92	0.02	10.16	13.68	23.86	50.00	-26.14	Average
12	18.92	0.02	10.16	33.08	43.26	60.00	-16.74	QP



Neutral line:



Site : Shielding Room
Condition: Neutral
Job No. : 09260RG
Test mode: k

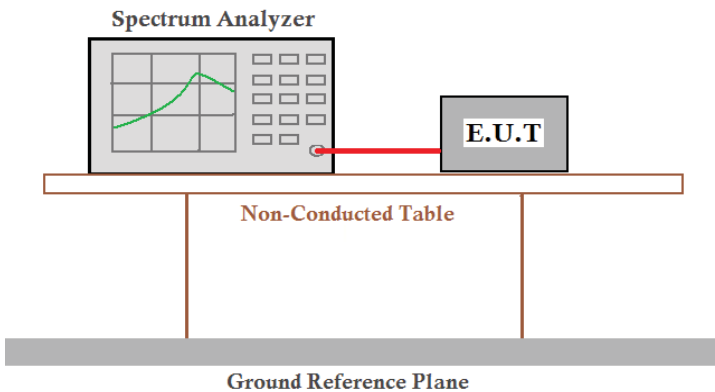
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.63	27.98	37.63	53.84	-16.21	Average
2	0.19	0.02	9.63	38.05	47.70	63.84	-16.14	QP
3	0.29	0.01	9.63	23.00	32.64	50.54	-17.90	Average
4	0.29	0.01	9.63	35.45	45.09	60.54	-15.45	QP
5	0.40	0.01	9.63	24.75	34.39	47.95	-13.56	Average
6	0.40	0.01	9.63	35.12	44.76	57.95	-13.19	QP
7	0.66	0.02	9.64	19.12	28.78	46.00	-17.22	Average
8	0.66	0.02	9.64	37.02	46.68	56.00	-9.32	QP
9	1.46	0.02	9.65	20.49	30.16	46.00	-15.84	Average
10	1.46	0.02	9.65	34.44	44.11	56.00	-11.89	QP
11	2.72	0.02	9.66	20.36	30.04	46.00	-15.96	Average
12	2.72	0.02	9.66	32.64	42.32	56.00	-13.68	QP

Notes:

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



6.3 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 the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); 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	



Measurement Data:

802.11a mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	13.39	24.00	Pass
5220	13.19	24.00	Pass
5240	13.32	24.00	Pass
5260	13.28	24.00	Pass
5300	13.60	24.00	Pass
5320	13.67	24.00	Pass
5500	13.22	24.00	Pass
5600	13.29	24.00	Pass
5700	13.18	24.00	Pass
5745	13.18	30.00	Pass
5785	13.36	30.00	Pass
5825	13.51	30.00	Pass

802.11n(HT20) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	12.99	24.00	Pass
5220	13.18	24.00	Pass
5240	13.31	24.00	Pass
5260	13.02	24.00	Pass
5300	13.43	24.00	Pass
5320	13.21	24.00	Pass
5500	13.09	24.00	Pass
5600	13.23	24.00	Pass
5700	13.34	24.00	Pass
5745	13.05	30.00	Pass
5785	13.52	30.00	Pass
5825	13.38	30.00	Pass



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802.11ac(HT20) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	13.32	24.00	Pass
5220	13.15	24.00	Pass
5240	13.24	24.00	Pass
5260	13.29	24.00	Pass
5300	13.28	24.00	Pass
5320	13.06	24.00	Pass
5500	13.05	24.00	Pass
5600	13.48	24.00	Pass
5700	13.32	24.00	Pass
5745	13.33	30.00	Pass
5785	13.28	30.00	Pass
5825	13.34	30.00	Pass

802.11n(HT40) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5190	13.02	24.00	Pass
5230	13.22	24.00	Pass
5270	13.03	24.00	Pass
5310	13.35	24.00	Pass
5510	13.12	24.00	Pass
5590	13.14	24.00	Pass
5670	13.16	24.00	Pass
5755	13.04	30.00	Pass
5795	13.22	30.00	Pass

802.11ac(HT40) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5190	13.01	24.00	Pass
5230	13.21	24.00	Pass
5270	13.02	24.00	Pass
5310	13.37	24.00	Pass

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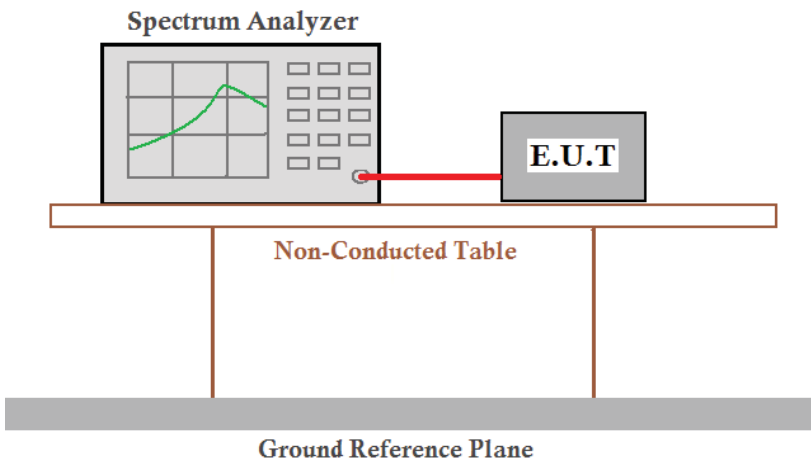
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5510	13.11	24.00	Pass
5590	13.13	24.00	Pass
5670	13.17	24.00	Pass
5755	13.04	30.00	Pass
5795	13.23	30.00	Pass

802.11ac(HT80) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5210	13.45	24.00	Pass
5290	13.36	24.00	Pass
5530	13.15	24.00	Pass
5610	13.01	24.00	Pass
5775	13.05	30.00	Pass



6.4 26dB Emission Bandwidth and 99% Occupied 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

Measurement Data:

802.11a mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	19.86	16.78
5220	19.94	16.78
5240	19.78	16.78
5260	19.86	16.74
5300	19.82	16.70
5320	19.86	16.78
5500	19.82	16.74
5600	19.86	16.74
5700	19.90	16.74



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5745	19.90	16.74
5785	19.86	16.74
5825	19.78	16.70

802.11n(HT20) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	20.46	17.74
5220	20.50	17.70
5240	20.46	17.70
5260	20.30	17.70
5300	20.50	17.74
5320	20.50	17.70
5500	20.54	17.70
5600	20.42	17.74
5700	20.50	17.70
5745	20.50	17.70
5785	20.50	17.74
5825	20.42	17.70

802.11ac(HT20) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	20.50	17.70
5220	20.46	17.70
5240	20.46	17.74
5260	20.46	17.74
5300	20.38	17.70
5320	20.38	17.74
5500	20.34	17.70
5600	20.30	17.70
5700	20.46	17.70
5745	20.50	17.70
5785	20.34	17.70
5825	20.38	17.70



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802.11n(HT40) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	39.16	35.80
5230	38.92	35.88
5270	38.92	35.88
5310	39.08	35.88
5510	39.08	35.88
5590	39.32	35.80
5670	39.08	35.88
5755	38.92	35.88
5795	39.16	35.80

802.11ac(HT40) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	39.00	35.88
5230	39.16	35.80
5270	39.08	35.88
5310	39.08	35.88
5510	39.08	35.88
5590	38.84	35.88
5670	39.08	35.80
5755	39.00	35.88
5795	38.84	35.80

802.11ac(HT80) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5210	81.04	74.81
5290	80.68	74.81
5530	80.68	74.93
5610	80.80	74.81
5775	80.92	74.93



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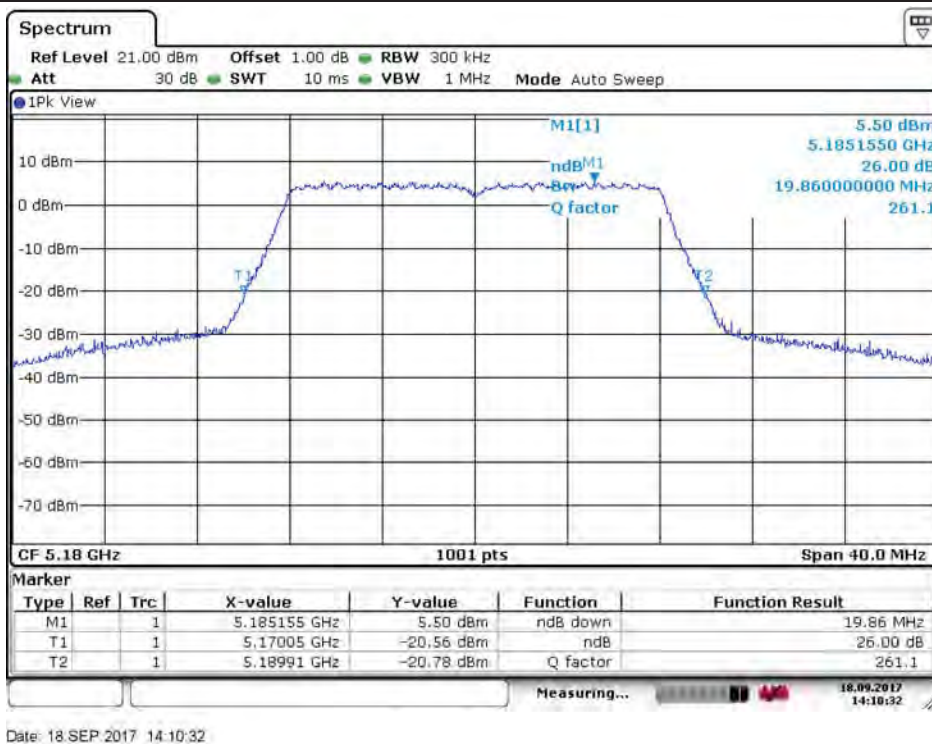
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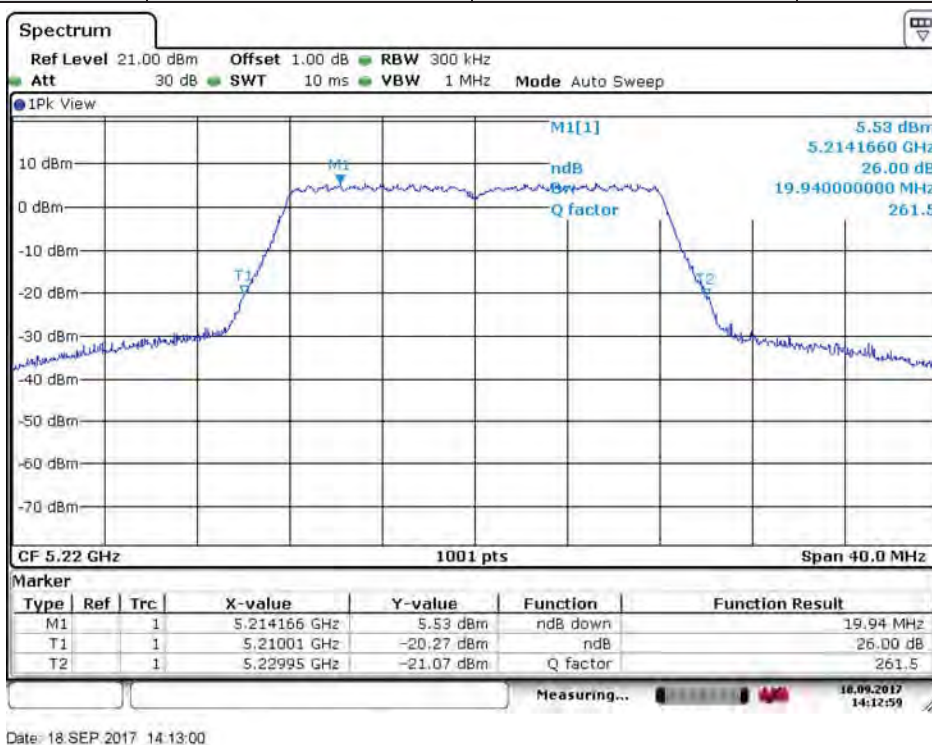
26dB Emission Bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Test mode:	802.11a	Frequency(MHz):	5220
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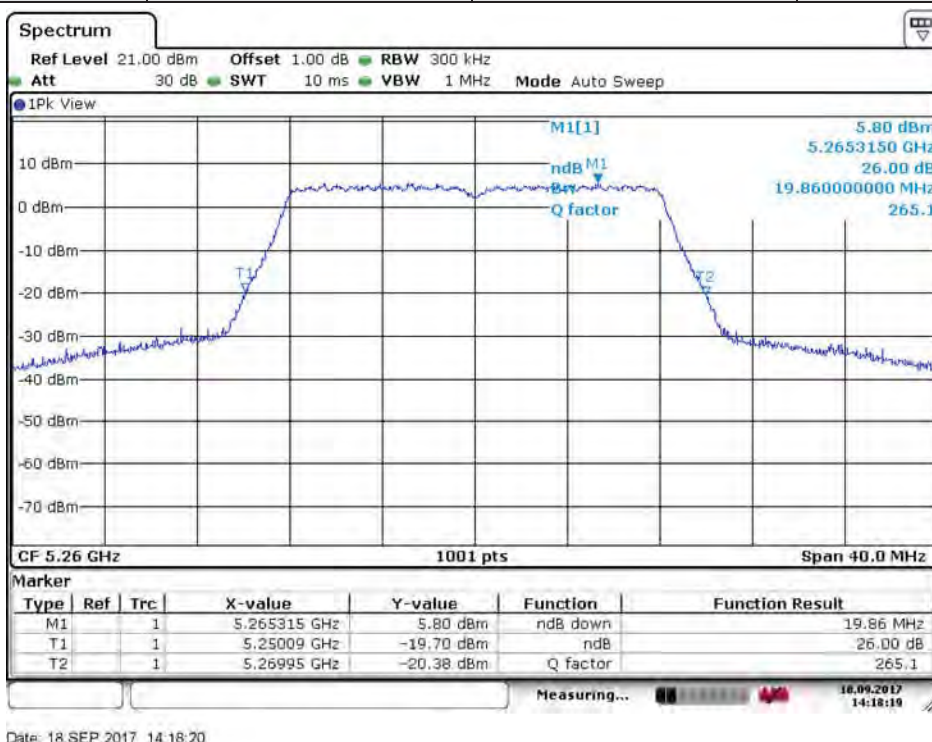
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Test mode:	802.11a	Frequency(MHz):	5240
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Test mode:	802.11a	Frequency(MHz):	5260
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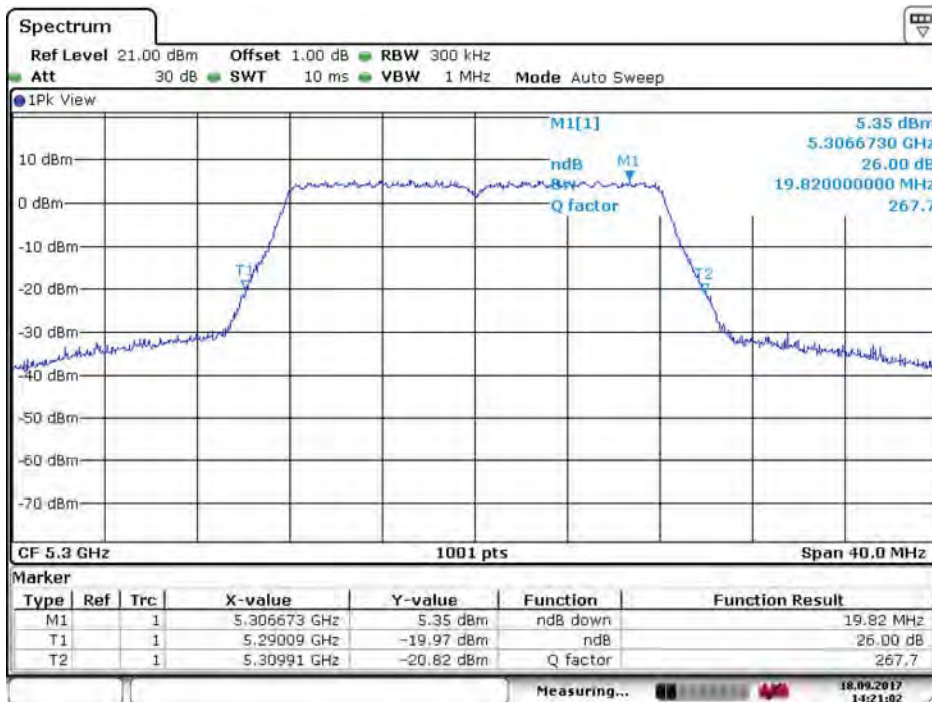


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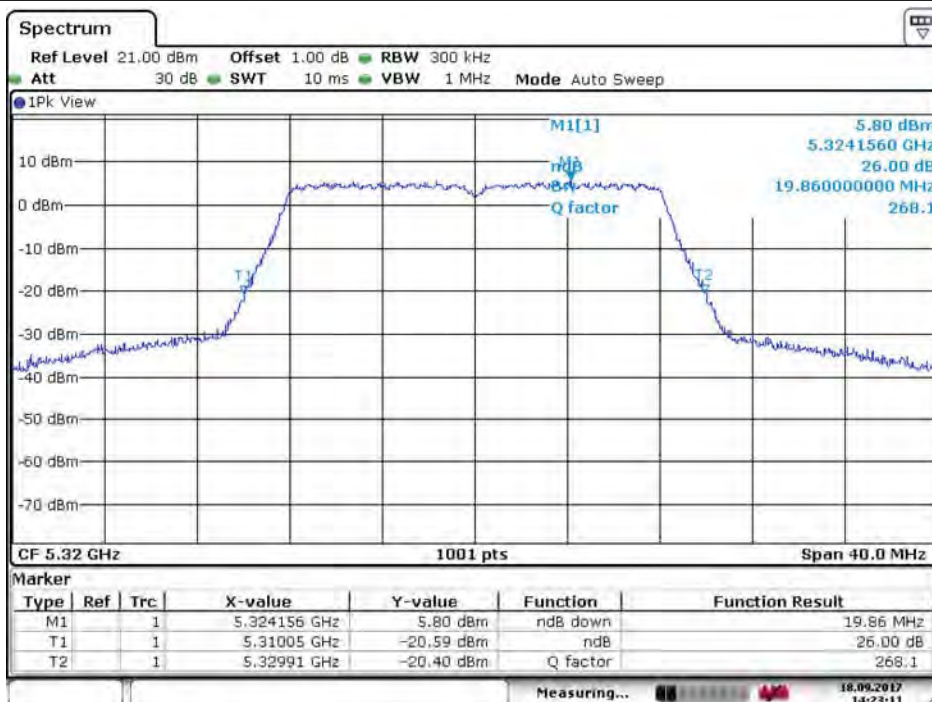
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Test mode:	802.11a	Frequency(MHz):	5300
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Date: 18.SEP 2017 14:21:02

Test mode:	802.11a	Frequency(MHz):	5320
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Date: 18.SEP 2017 14:23:12

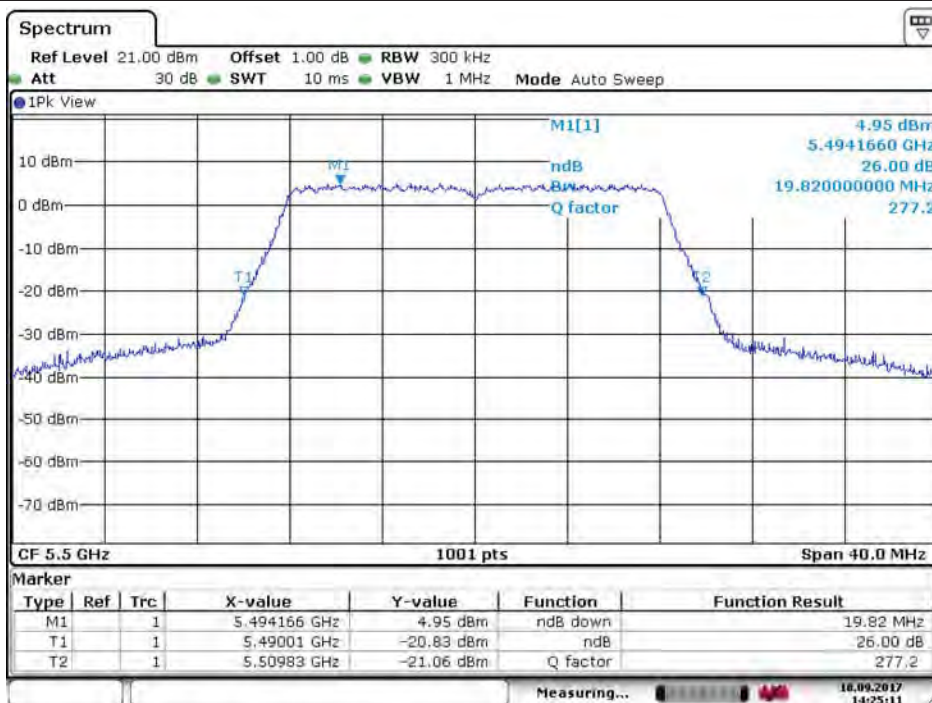


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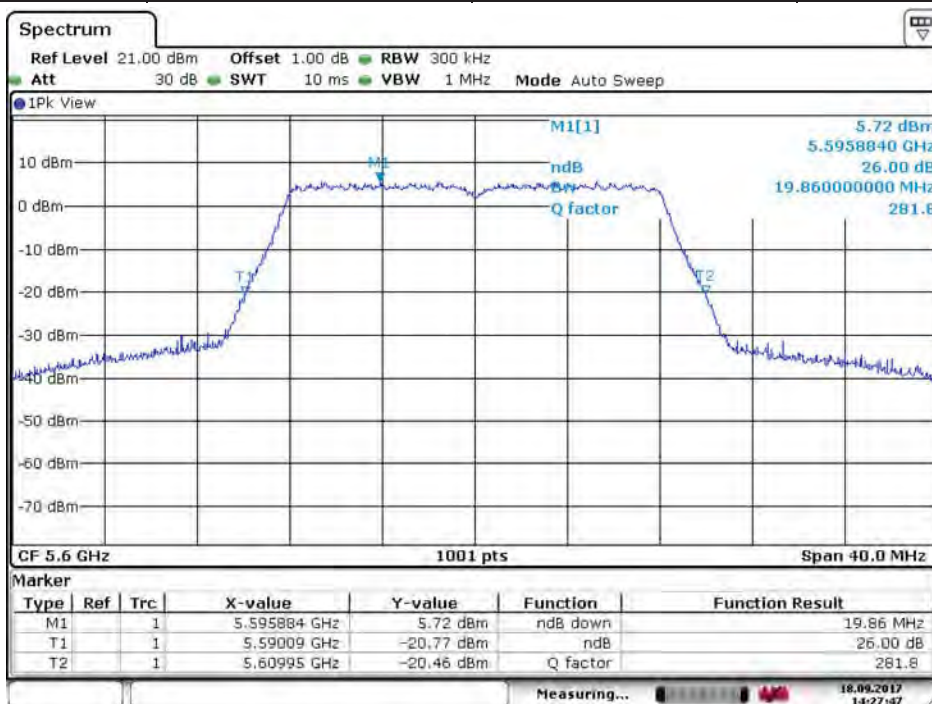
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Test mode:	802.11a	Frequency(MHz):	5500
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Date: 18 SEP 2017 14:25:11

Test mode:	802.11a	Frequency(MHz):	5600
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Date: 18 SEP 2017 14:27:47

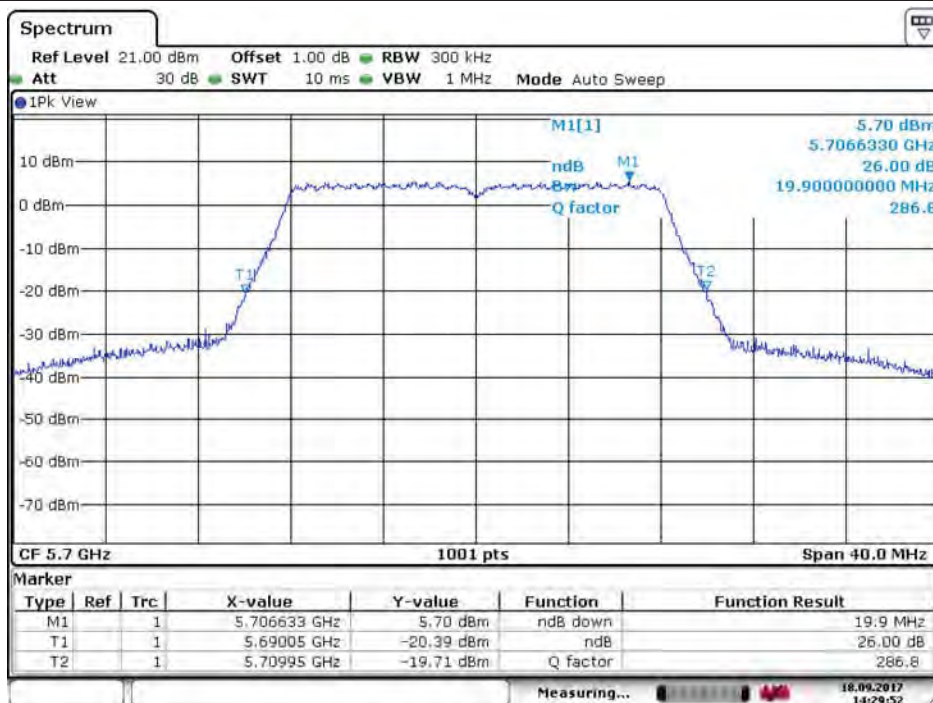


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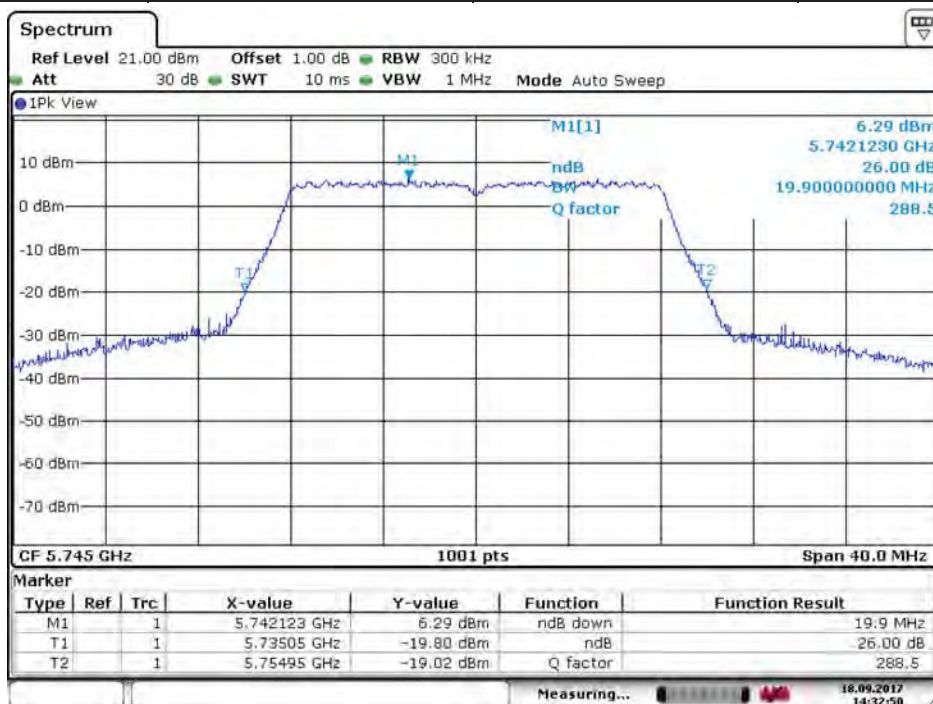
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Test mode:	802.11a	Frequency(MHz):	5700
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Date: 18 SEP 2017 14:29:53

Test mode:	802.11a	Frequency(MHz):	5745
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Date: 18 SEP 2017 14:32:51

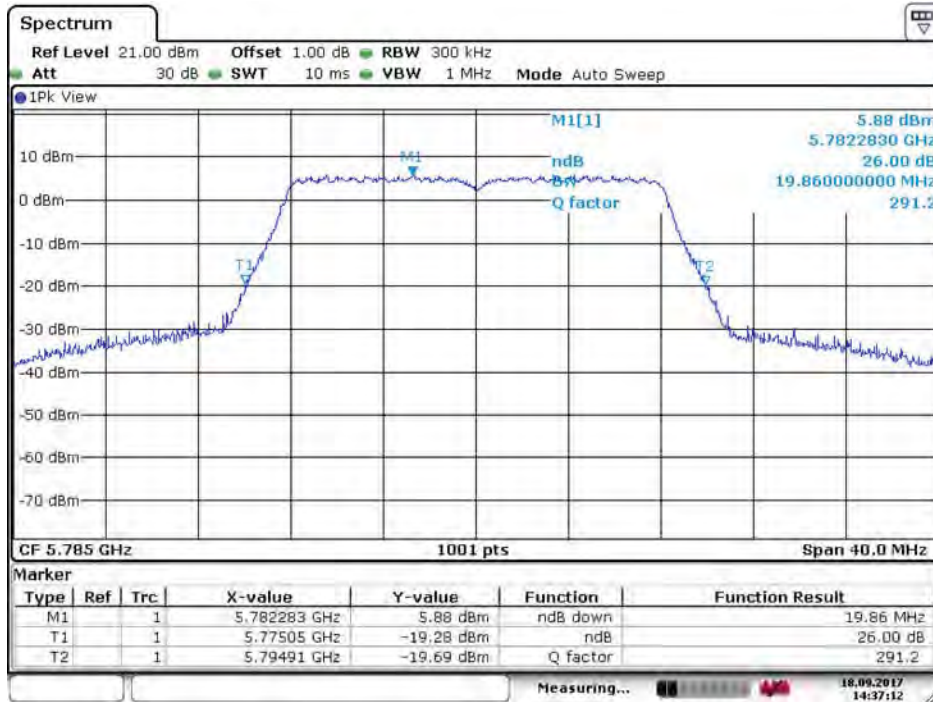


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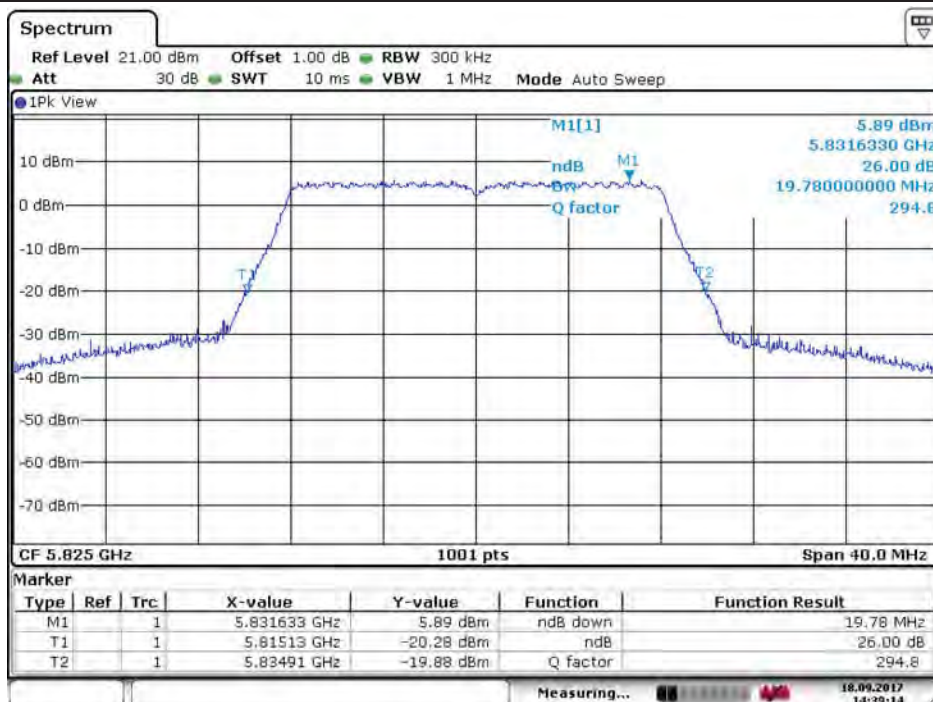
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Test mode:	802.11a	Frequency(MHz):	5785
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Date: 18 SEP 2017 14:37:12

Test mode:	802.11a	Frequency(MHz):	5825
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Date: 18 SEP 2017 14:39:14

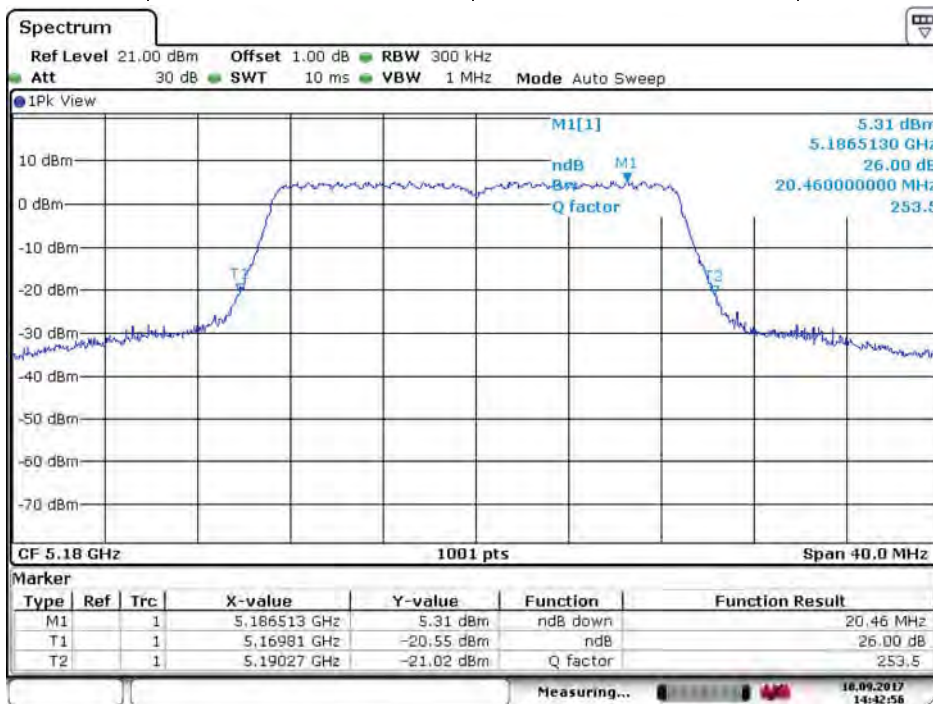


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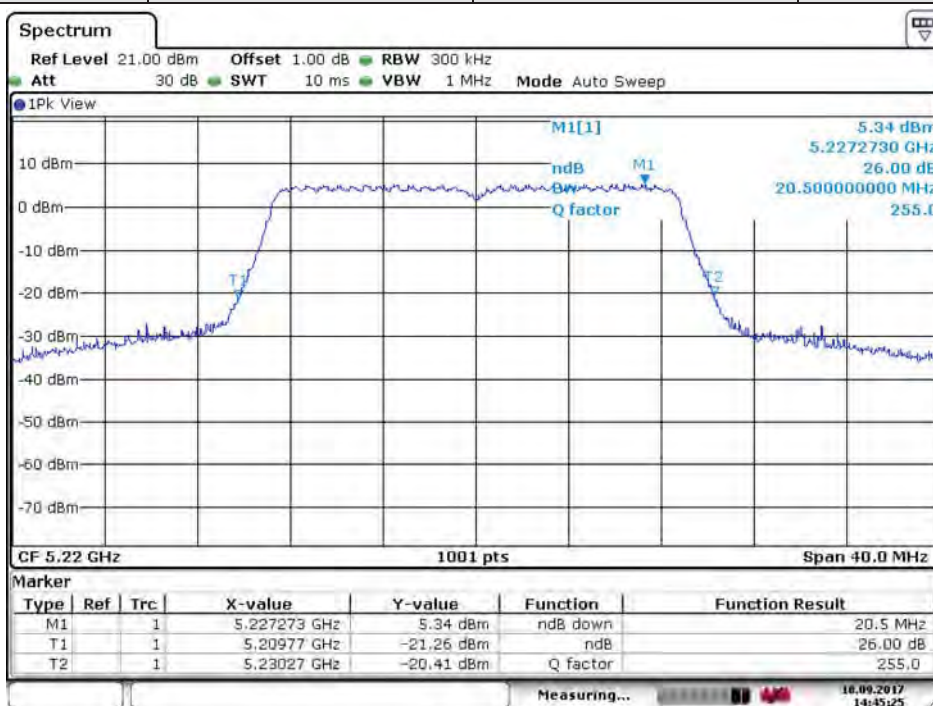
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Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Date: 18 SEP 2017 14:42:56

Test mode:	802.11n(HT20)	Frequency(MHz):	5220
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Date: 18 SEP 2017 14:45:25

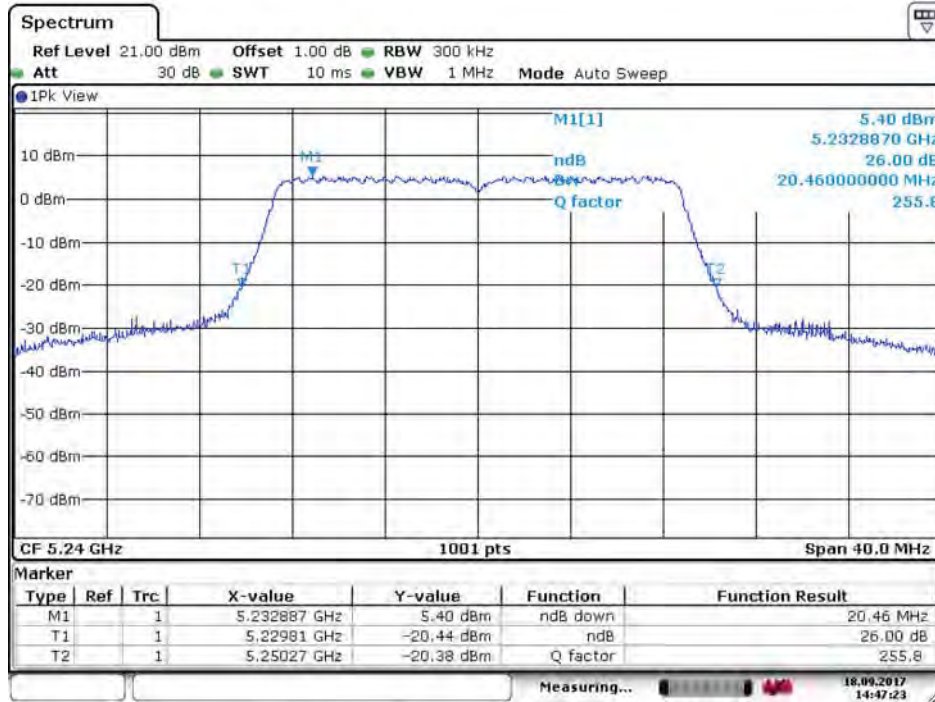


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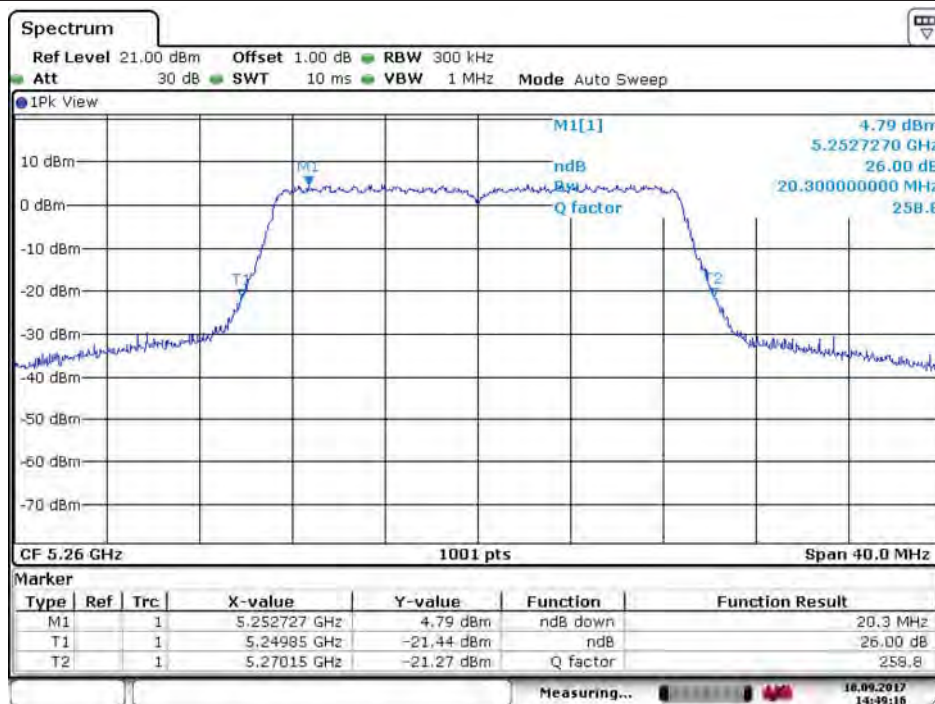
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Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Date: 18 SEP 2017 14:47:23

Test mode:	802.11n(HT20)	Frequency(MHz):	5260
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Date: 18 SEP 2017 14:49:17

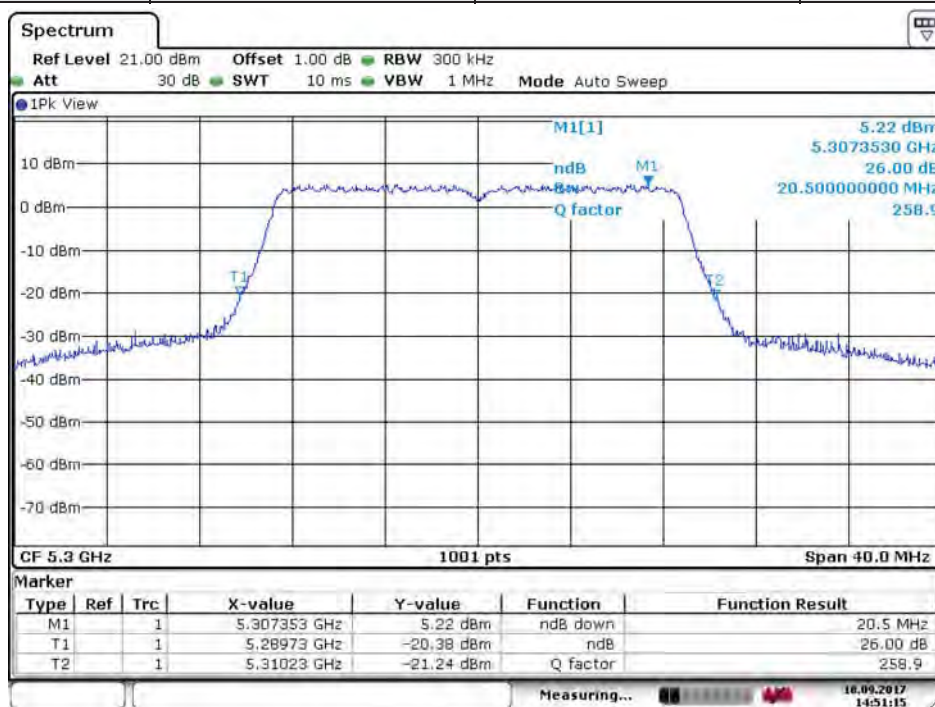


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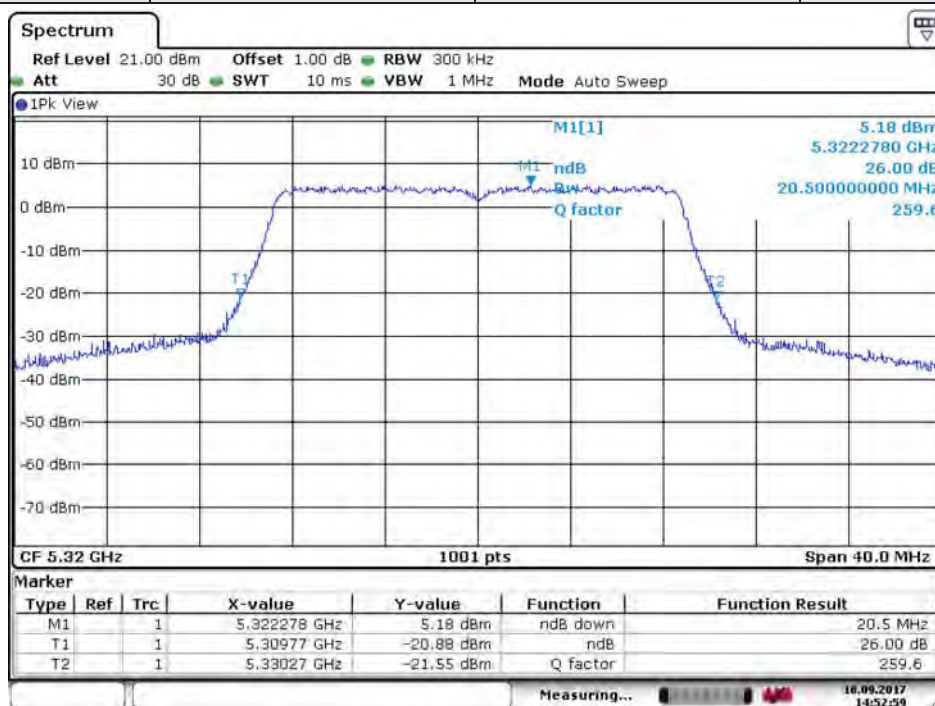
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Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Date: 18 SEP 2017 14:51:15

Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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Date: 18 SEP 2017 14:52:59

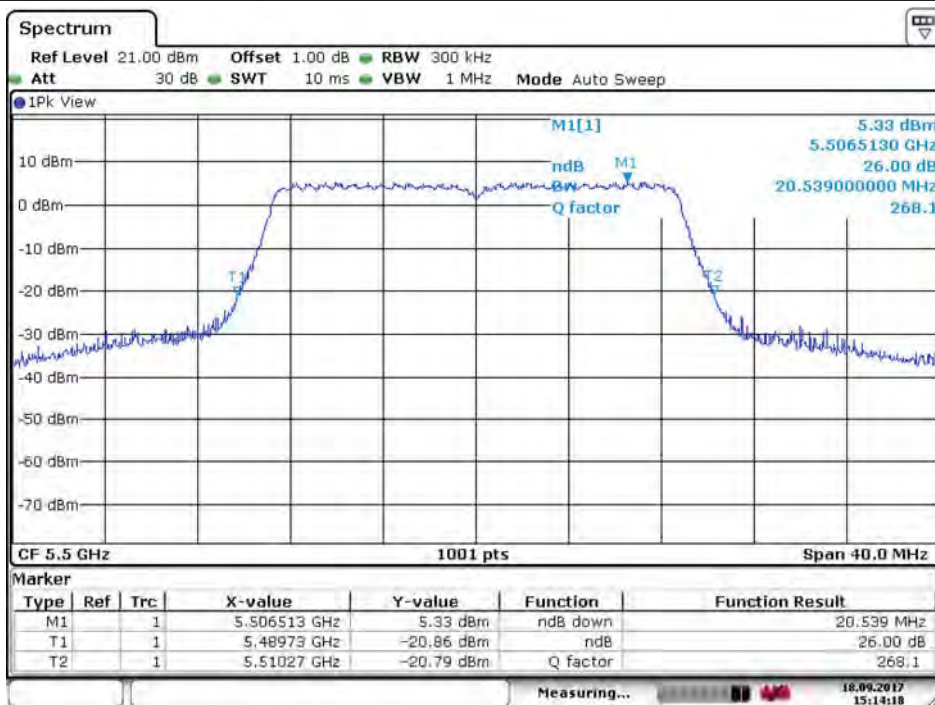


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Report No.: SZEM170800926003

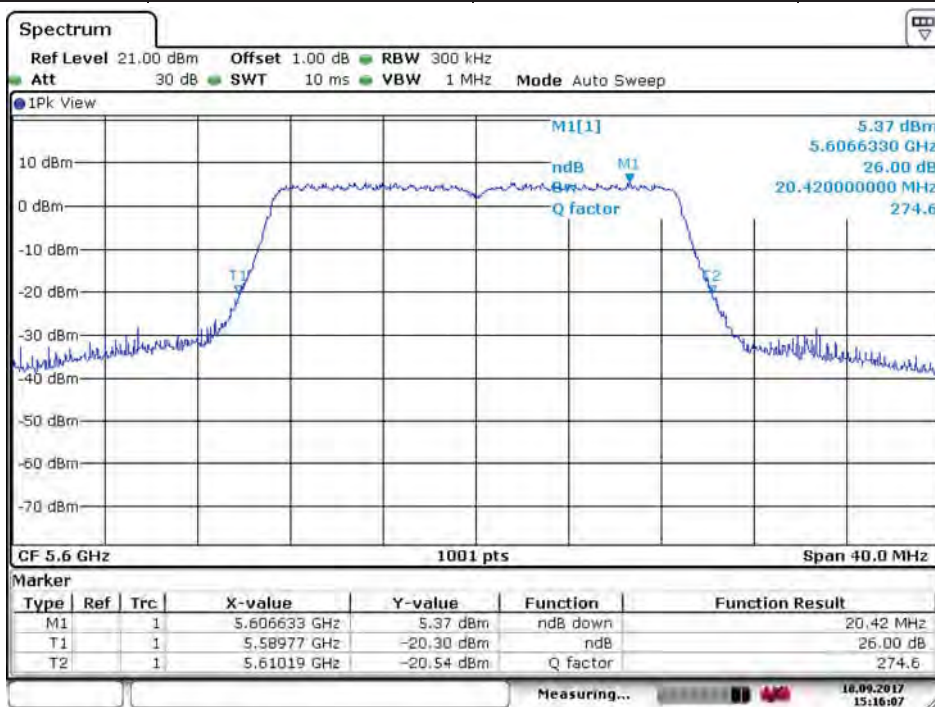
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Test mode:	802.11n(HT20)	Frequency(MHz):	5500
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Date: 18.SEP.2017 15:14:18

Test mode:	802.11n(HT20)	Frequency(MHz):	5600
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Date: 18.SEP.2017 15:16:08

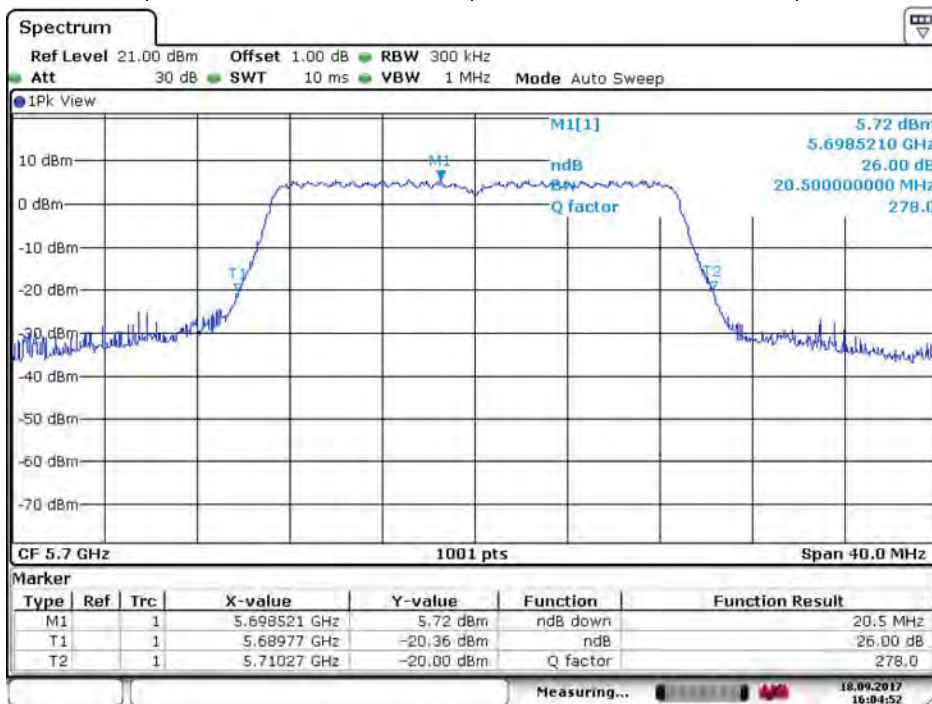


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Report No.: SZEM170800926003

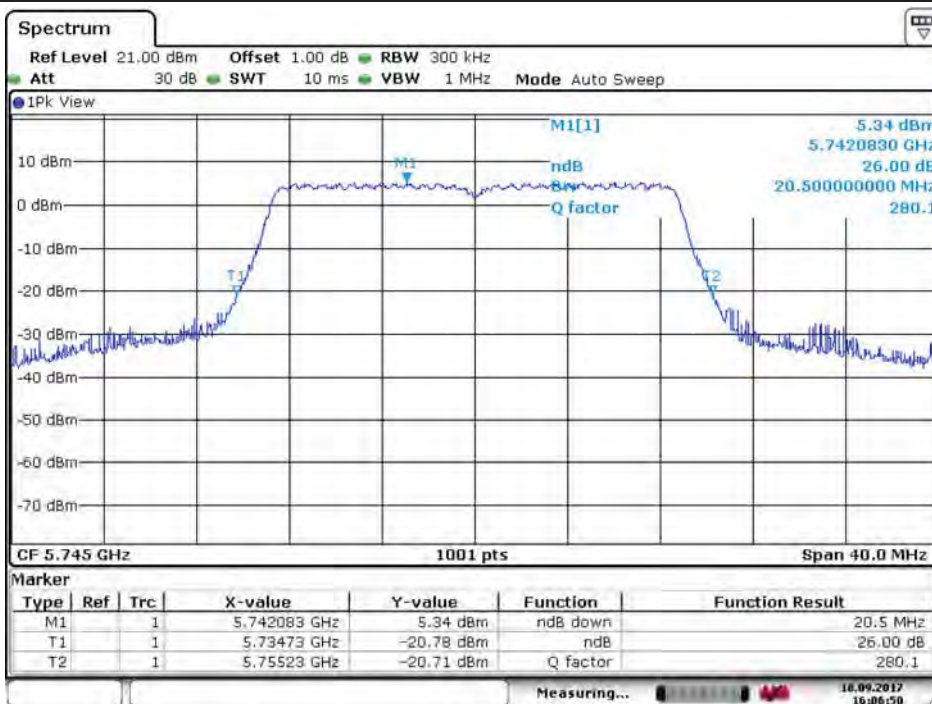
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Test mode:	802.11n(HT20)	Frequency(MHz):	5700
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Date: 18.SEP.2017 16:04:52

Test mode:	802.11 n(HT20)	Frequency(MHz):	5745
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Date: 18.SEP.2017 16:06:51

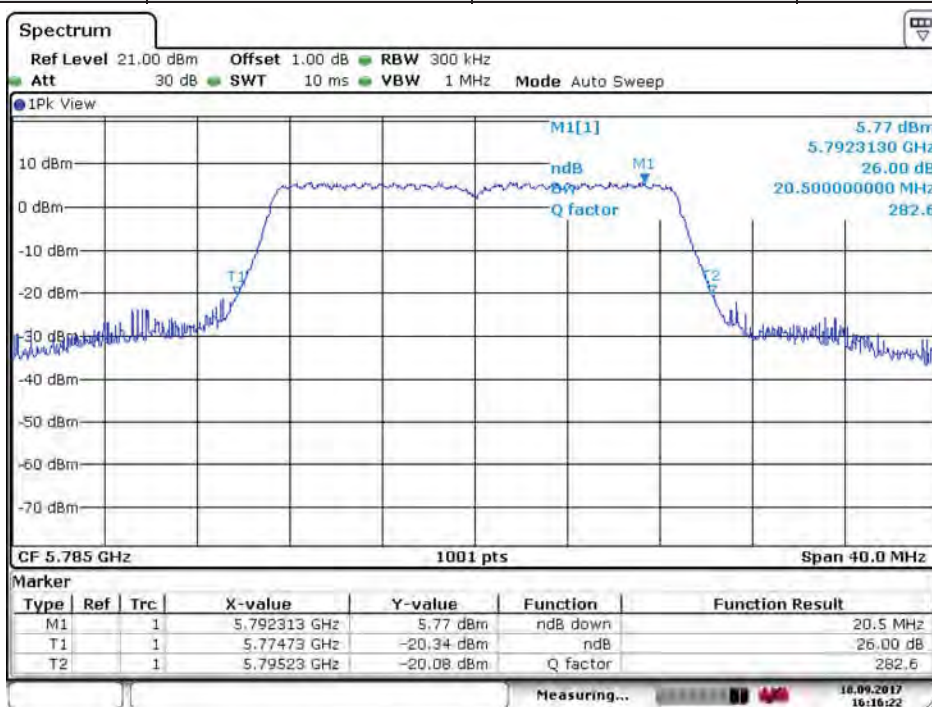


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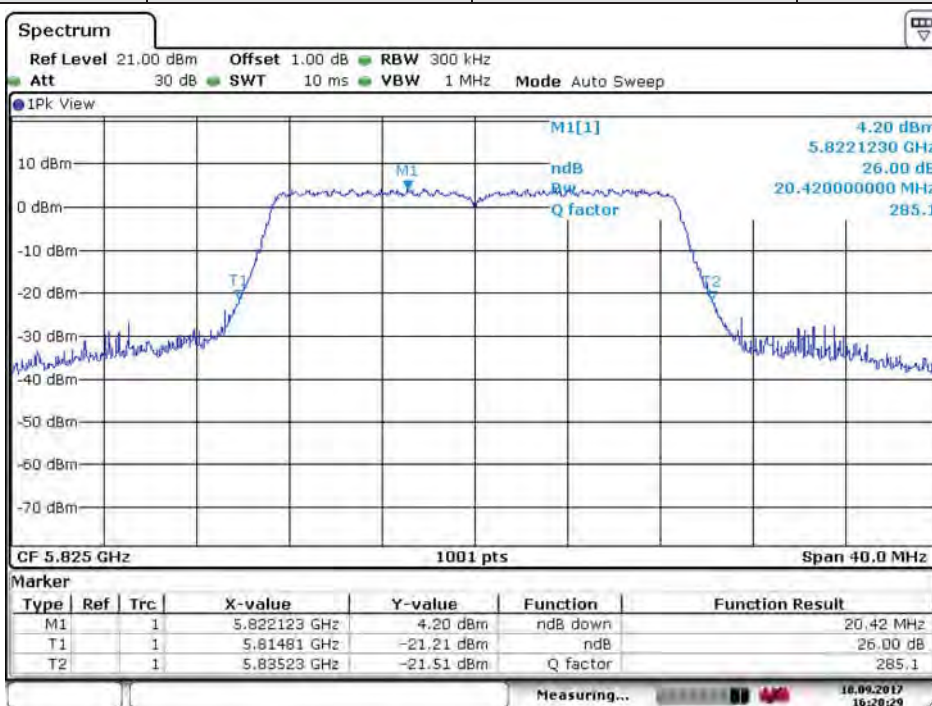
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9Test mode:	802.11 n(HT20)	Frequency(MHz):	5785
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Date: 18.SEP.2017 16:16:22

Test mode:	802.11 n(HT20)	Frequency(MHz):	5825
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Date: 18.SEP.2017 16:20:29

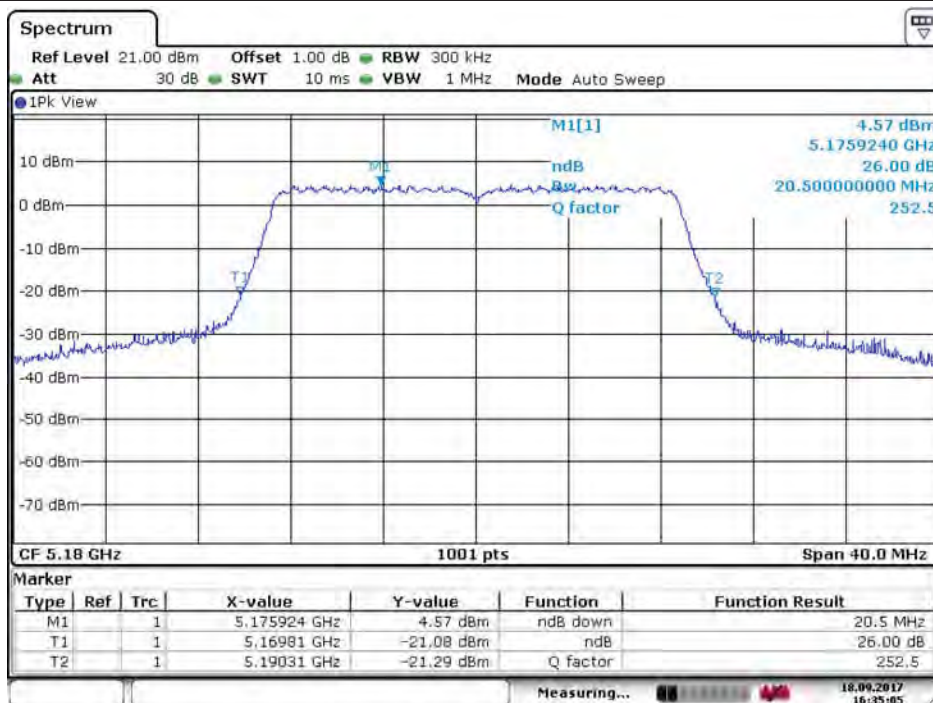


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Report No.: SZEM170800926003

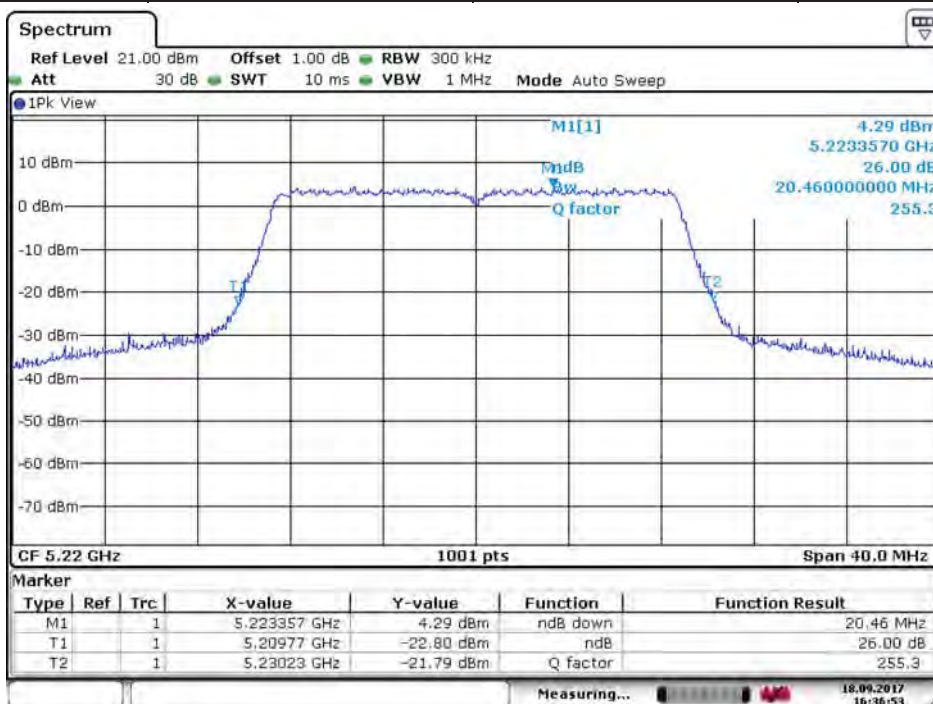
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5180
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Date: 18.SEP 2017 16:35:05

Test mode:	802.11ac(HT20)	Frequency(MHz):	5220
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Date: 18.SEP 2017 16:36:54

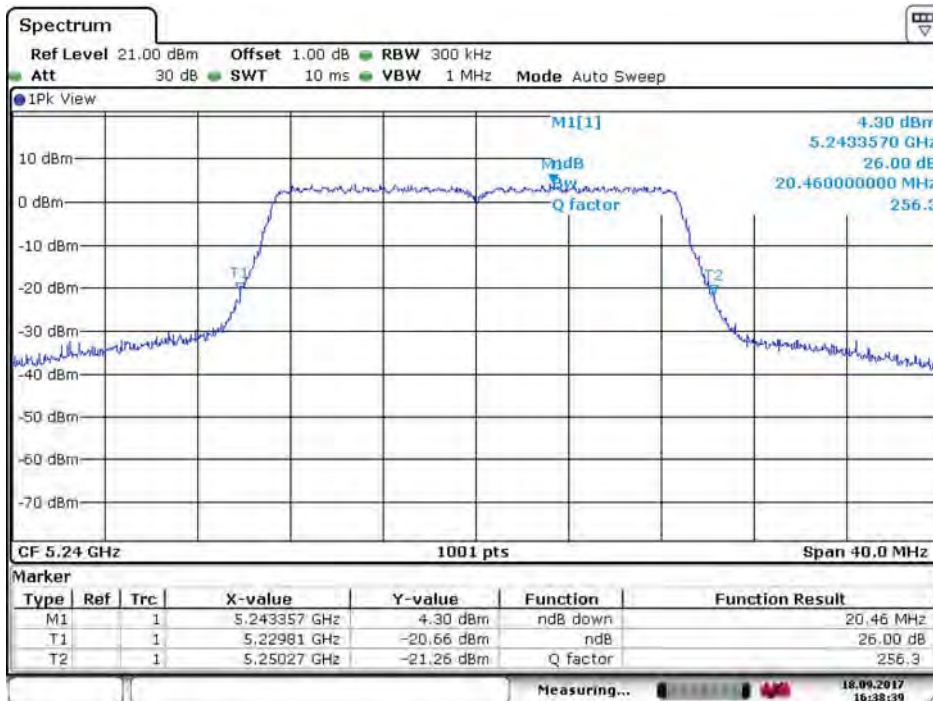


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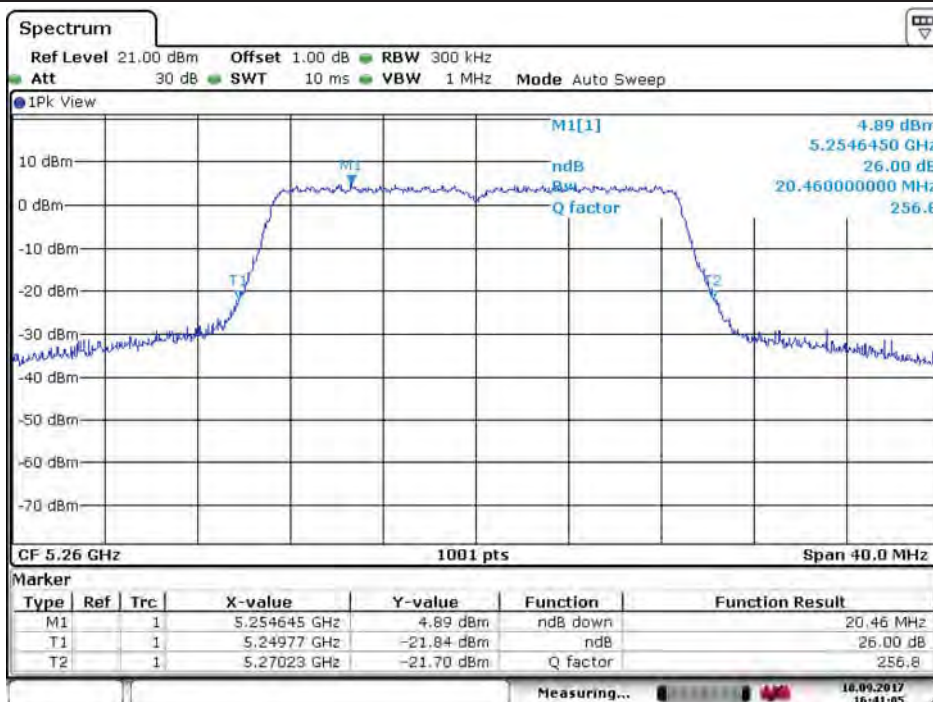
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5240
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Date: 18.SEP.2017 16:38:39

Test mode:	802.11ac(HT20)	Frequency(MHz):	5260
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Date: 18.SEP.2017 16:41:05

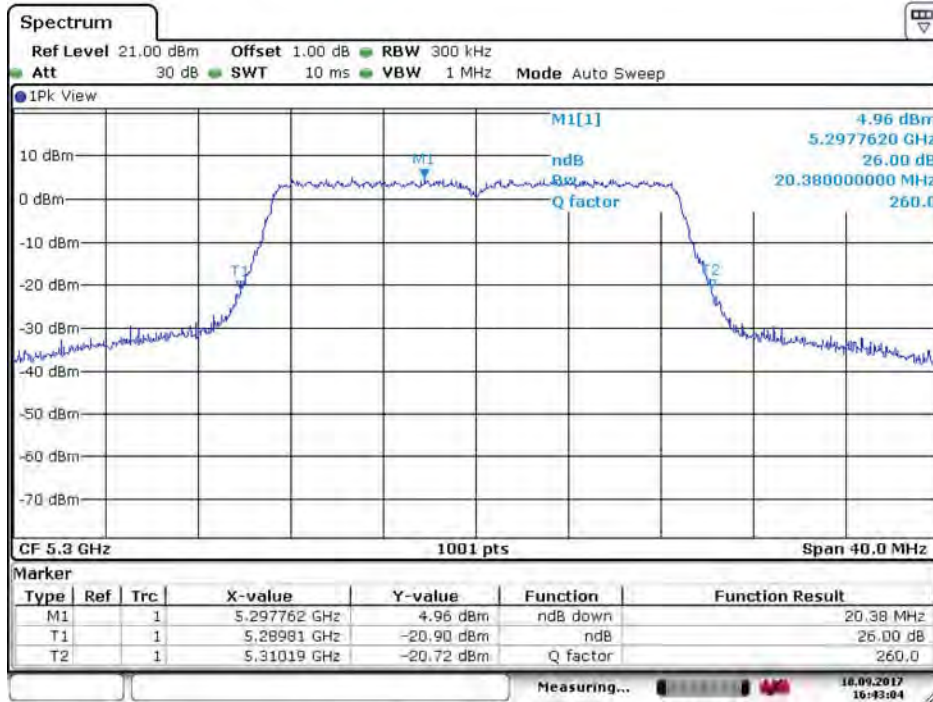


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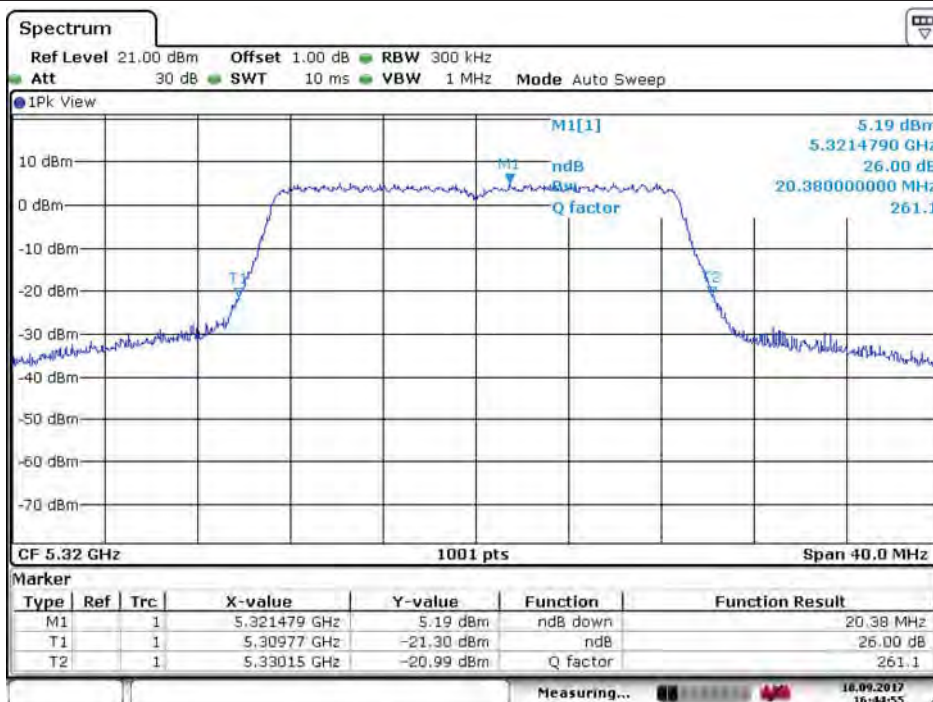
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5300
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Date: 18.SEP.2017 16:43:04

Test mode:	802.11ac(HT20)	Frequency(MHz):	5320
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Date: 18.SEP.2017 16:44:56

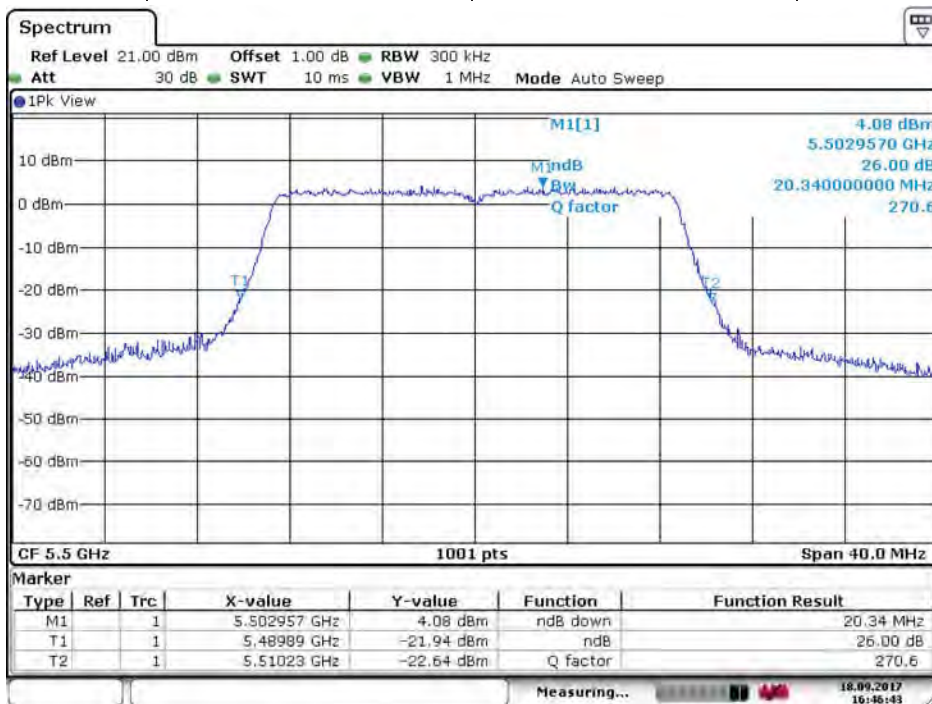


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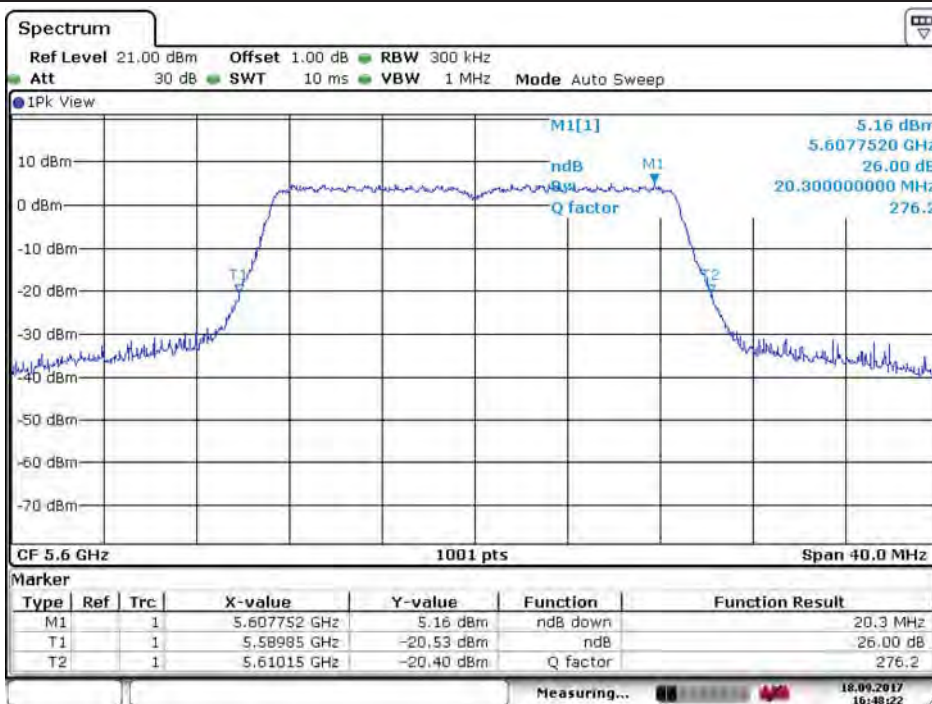
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5500
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Date: 18.SEP.2017 16:46:44

Test mode:	802.11ac(HT20)	Frequency(MHz):	5600
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Date: 18.SEP.2017 16:48:22

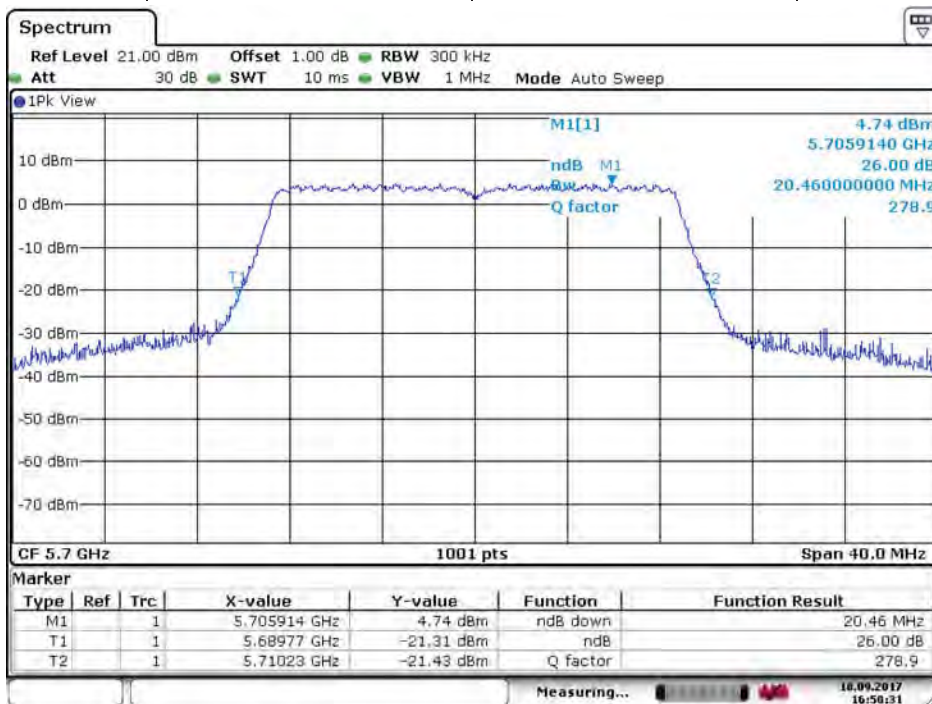


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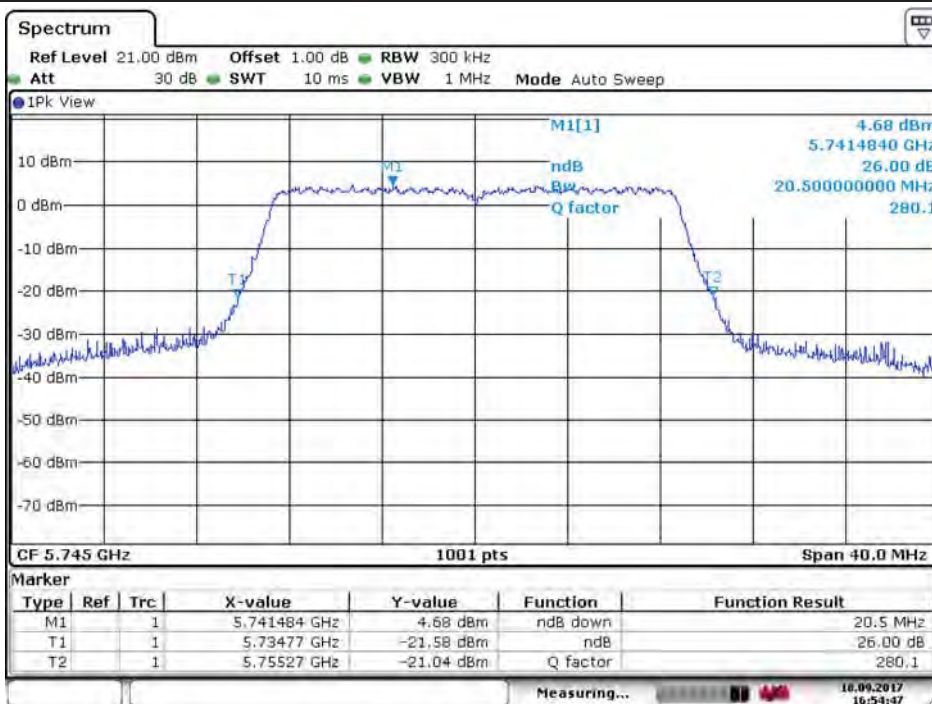
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5700
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Date: 18.SEP.2017 16:50:32

Test mode:	802.11ac(HT20)	Frequency(MHz):	5745
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Date: 18.SEP.2017 16:54:47

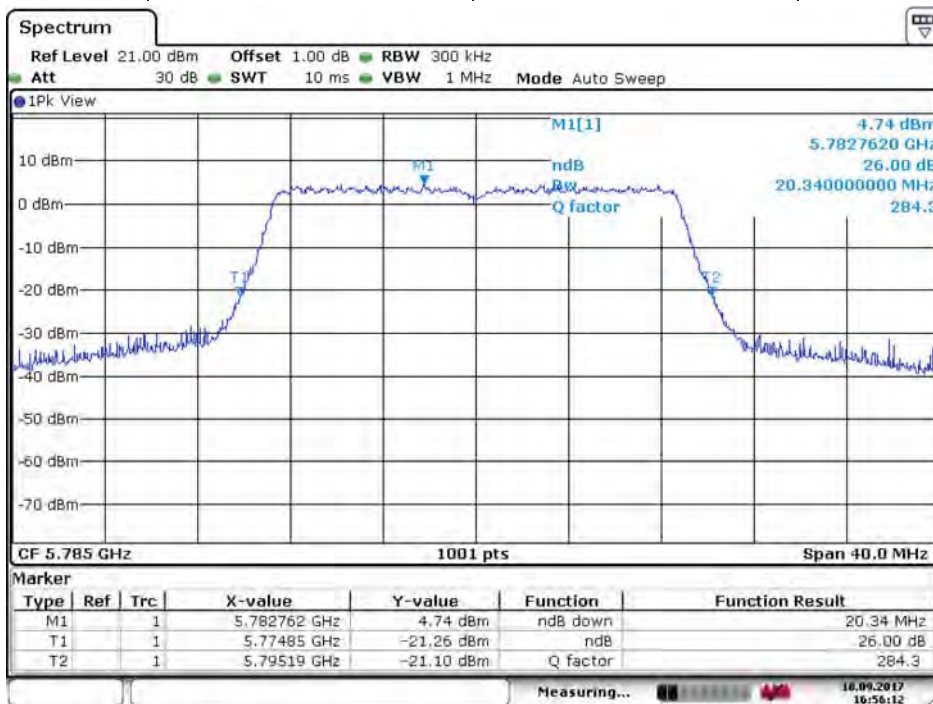


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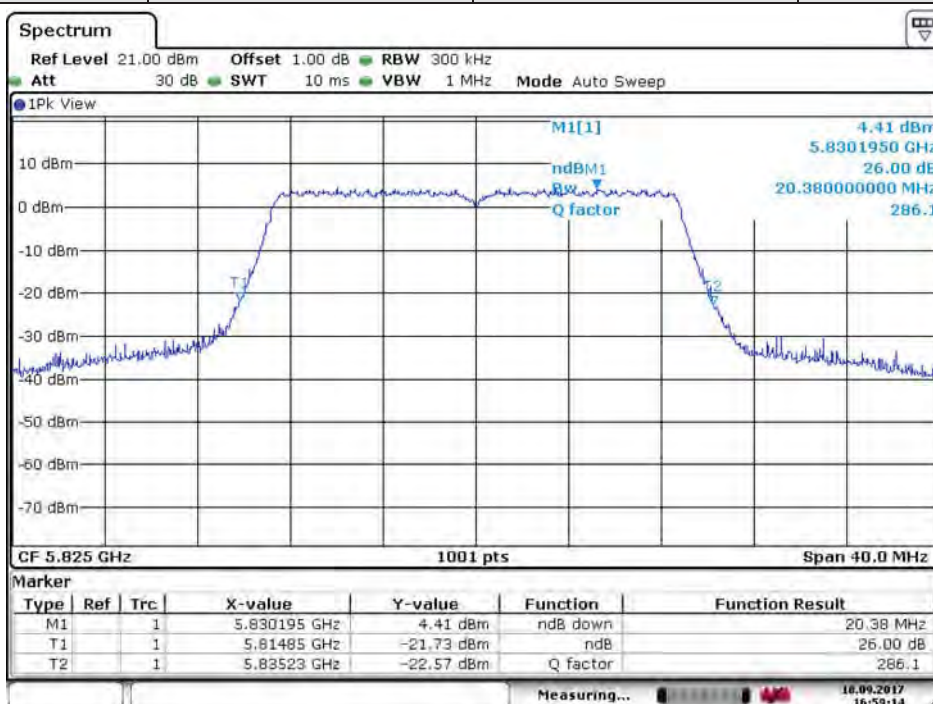
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5785
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Date: 18.SEP.2017 16:56:13

Test mode:	802.11ac(HT20)	Frequency(MHz):	5825
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Date: 18.SEP.2017 16:59:14

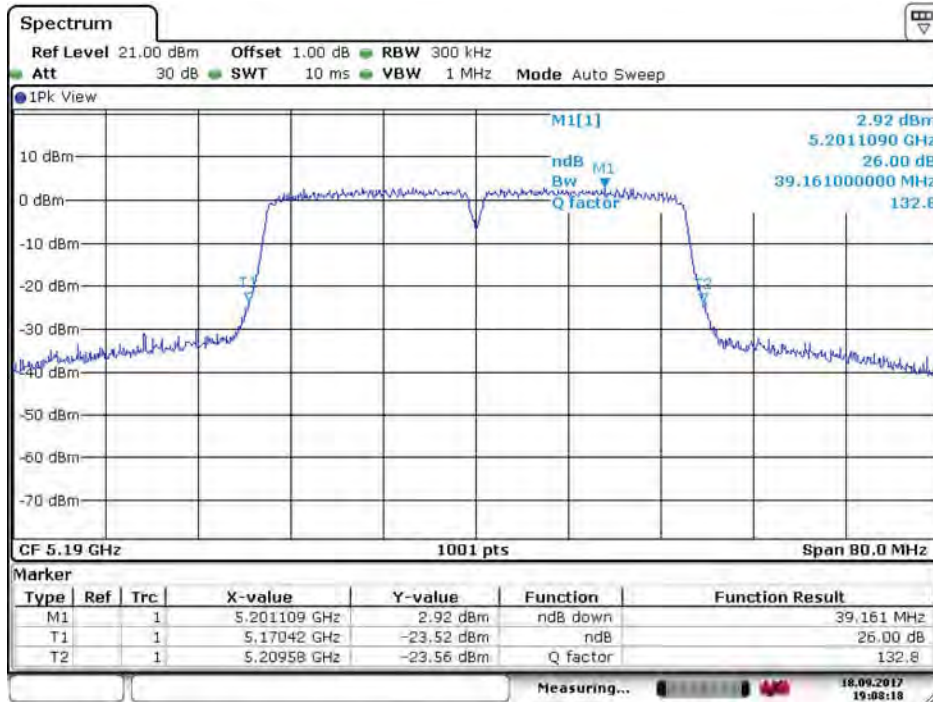


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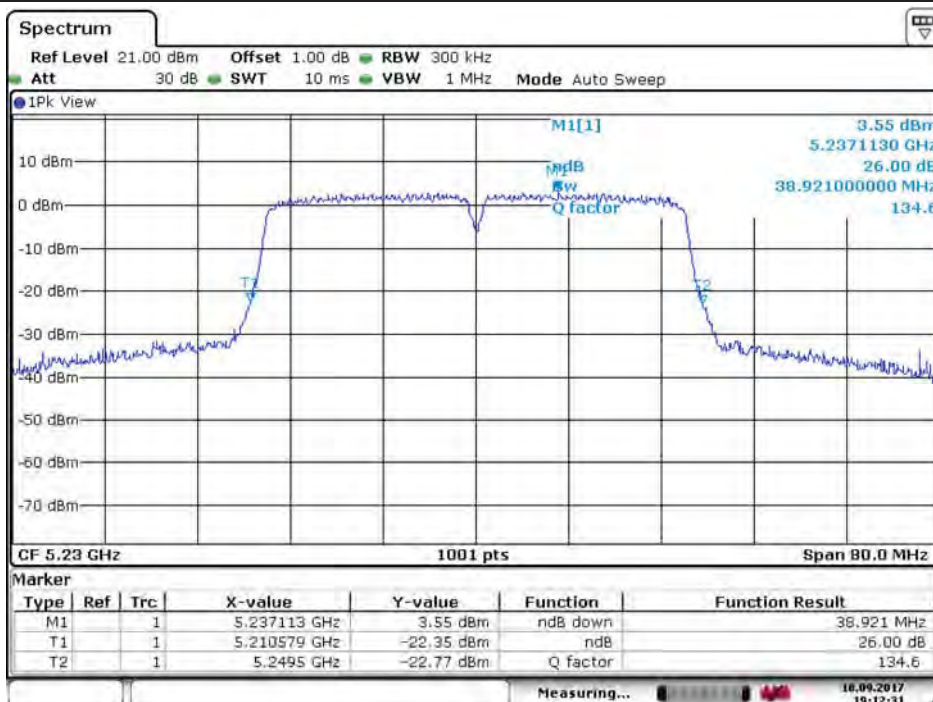
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Date: 18.SEP.2017 19:08:18

Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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Date: 18.SEP.2017 19:12:32

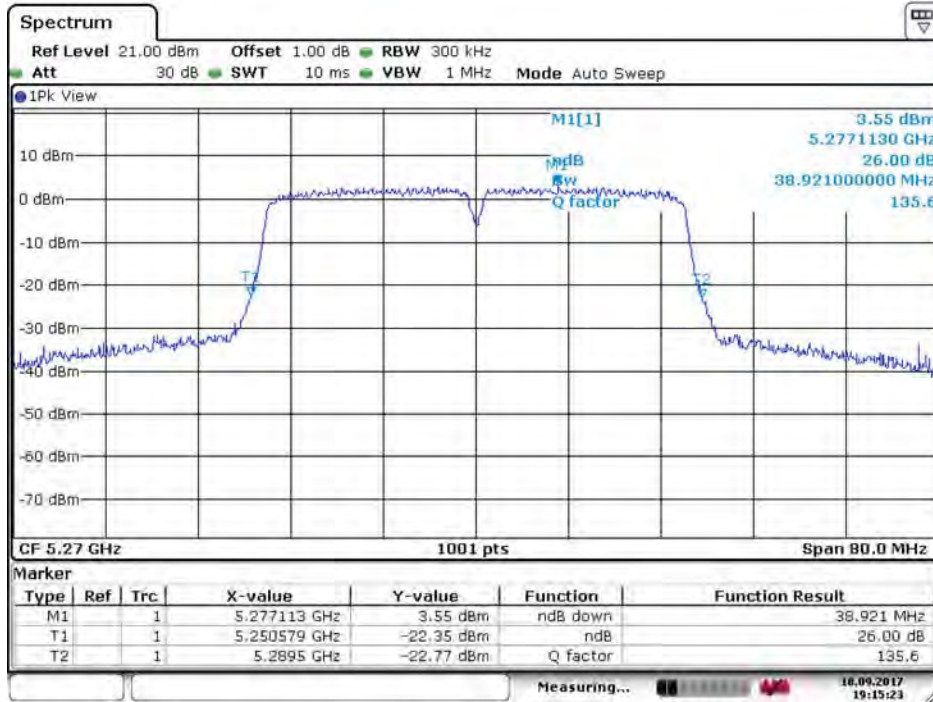


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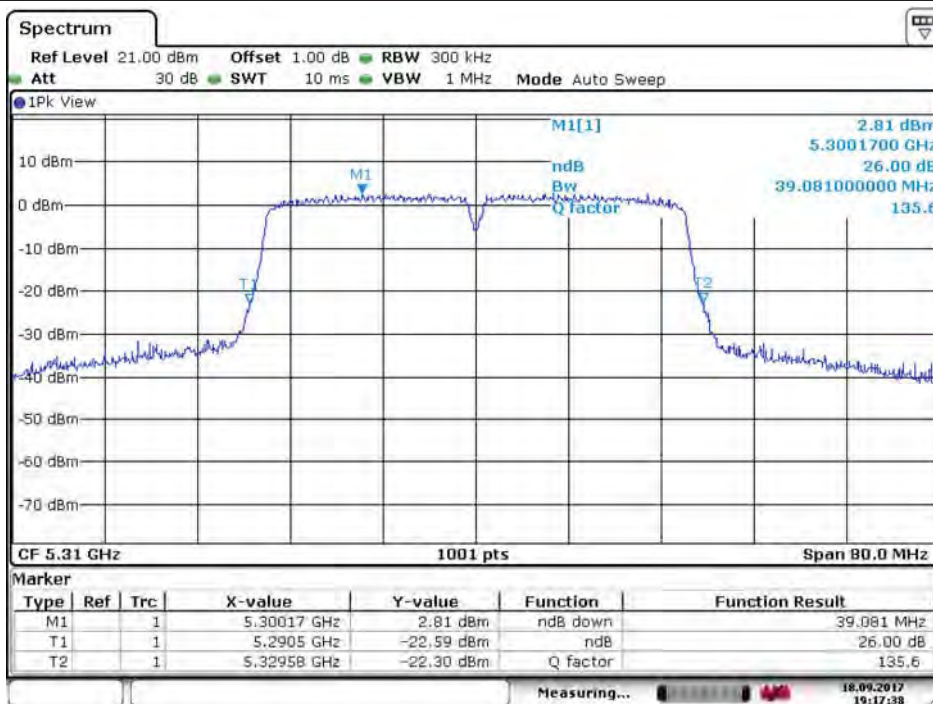
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Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Date: 18.SEP.2017 19:15:23

Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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Date: 18.SEP.2017 19:17:38

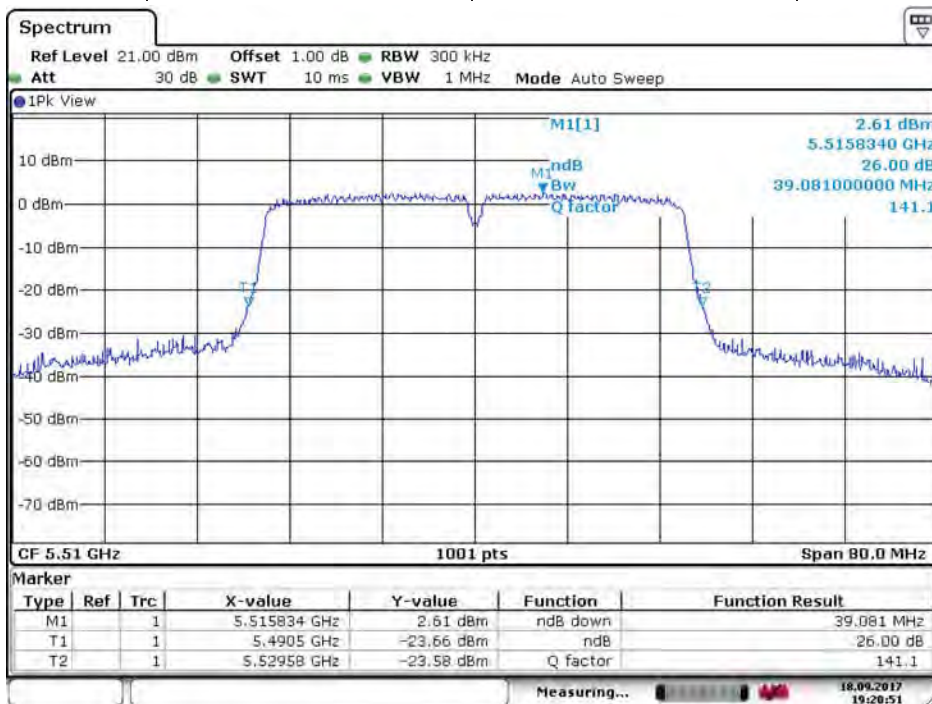


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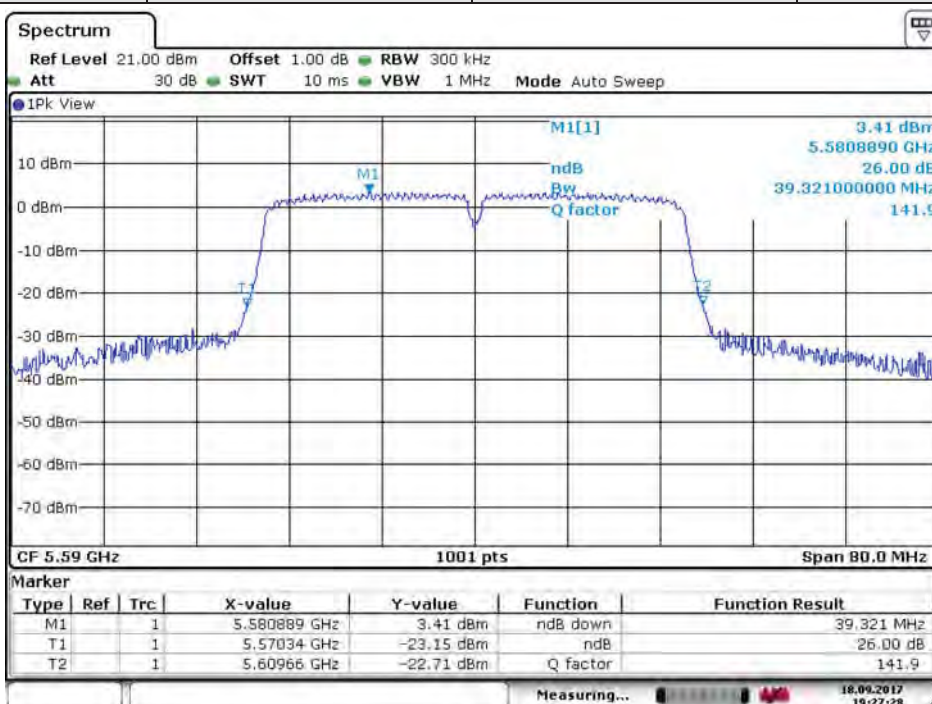
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Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Date: 18 SEP 2017 19:20:51

Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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Date: 18 SEP 2017 19:27:28

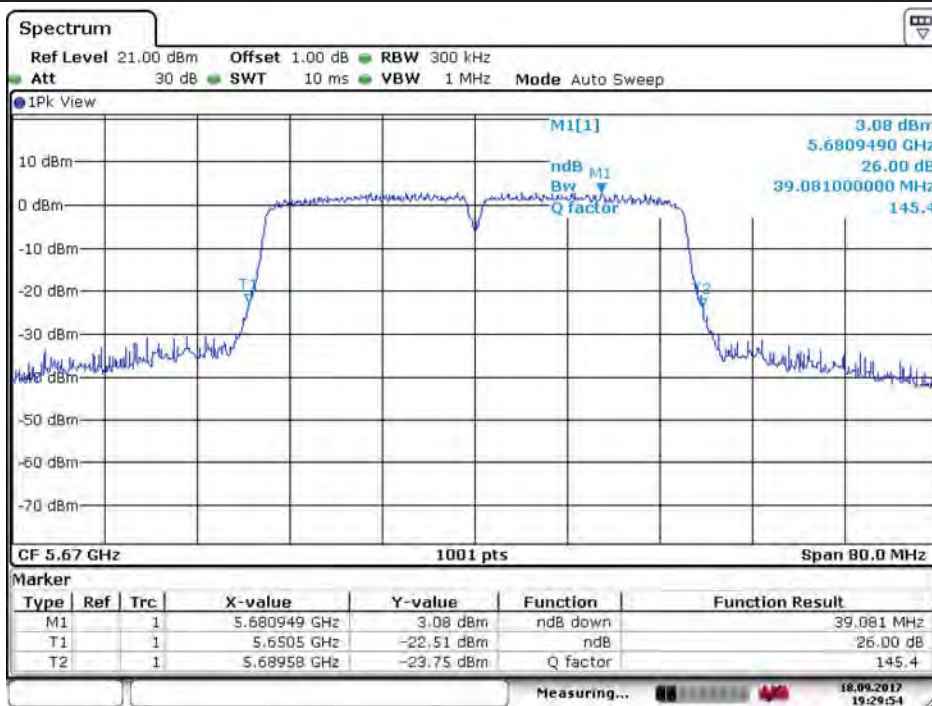


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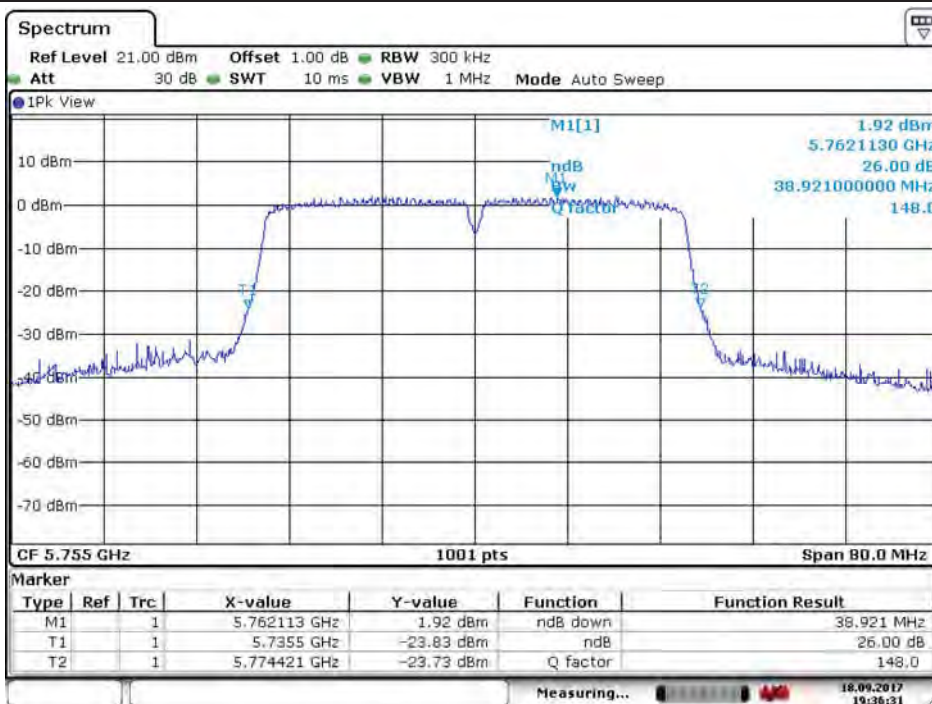
Page: 47 of 411

Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Date: 18.SEP.2017 19:29:54

Test mode:	802.11 n(HT40)	Frequency(MHz):	5755
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Date: 18.SEP.2017 19:36:31

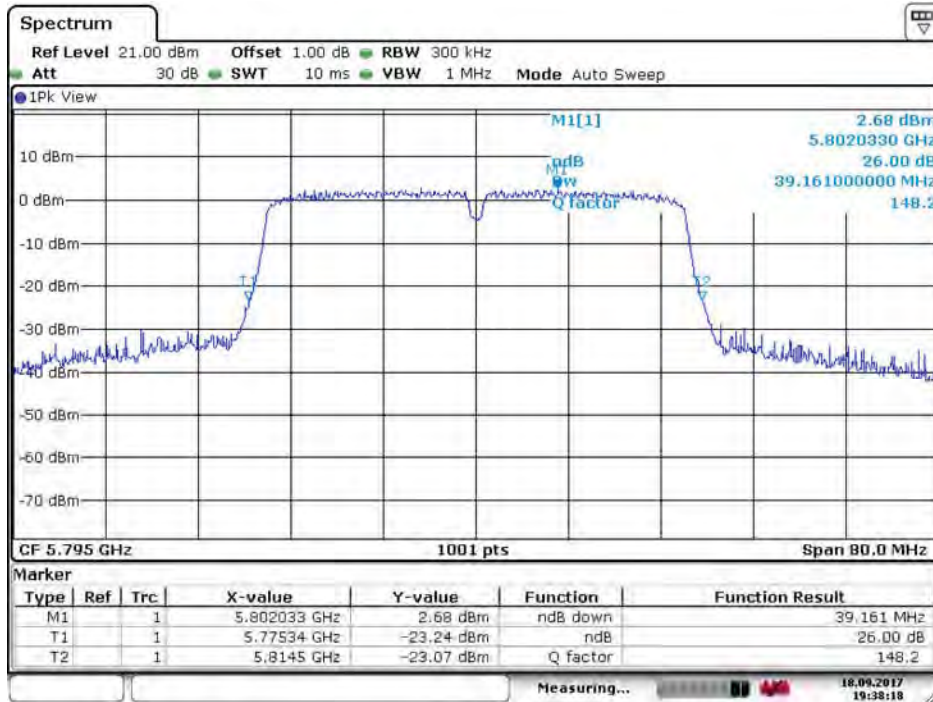


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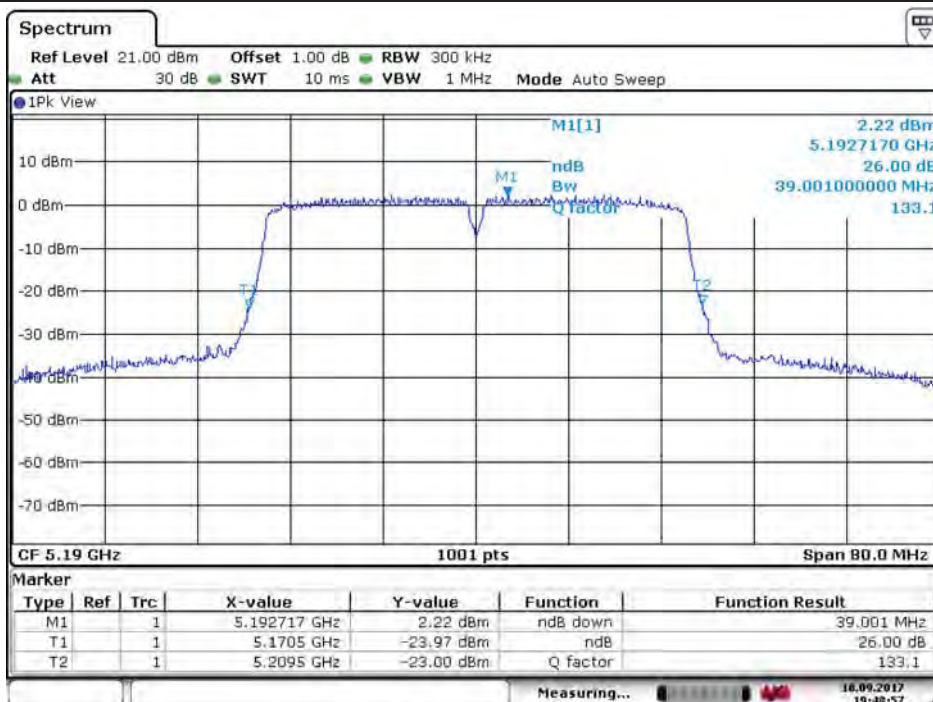
Page: 48 of 411

Test mode:	802.11 n(HT40)	Frequency(MHz):	5795
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Date: 18.SEP.2017 19:38:18

Test mode:	802.11ac(HT40)	Frequency(MHz):	5190
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Date: 18.SEP.2017 19:48:58

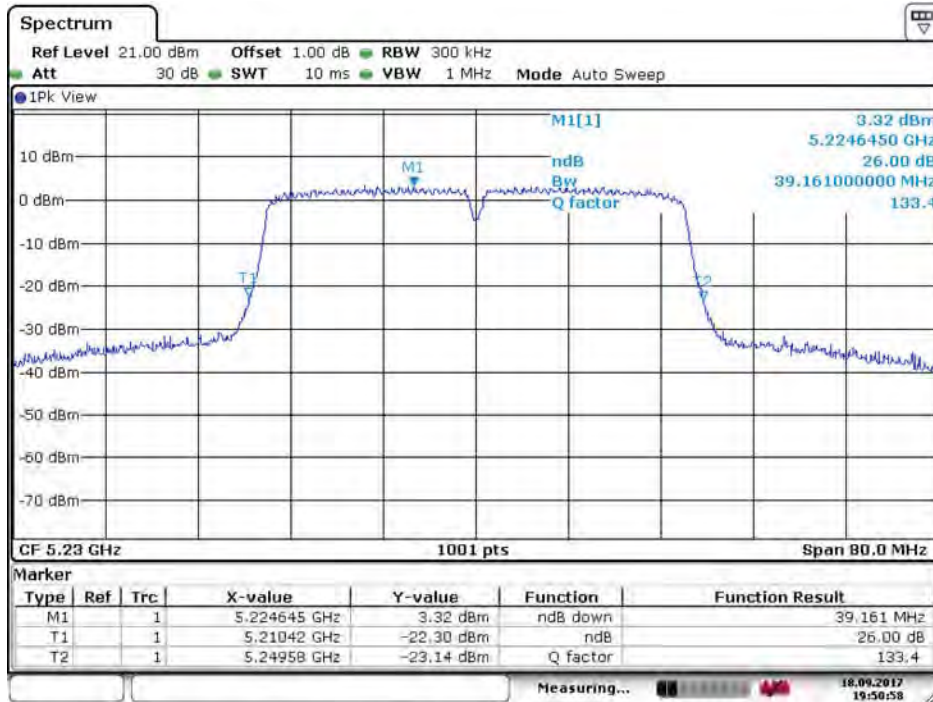


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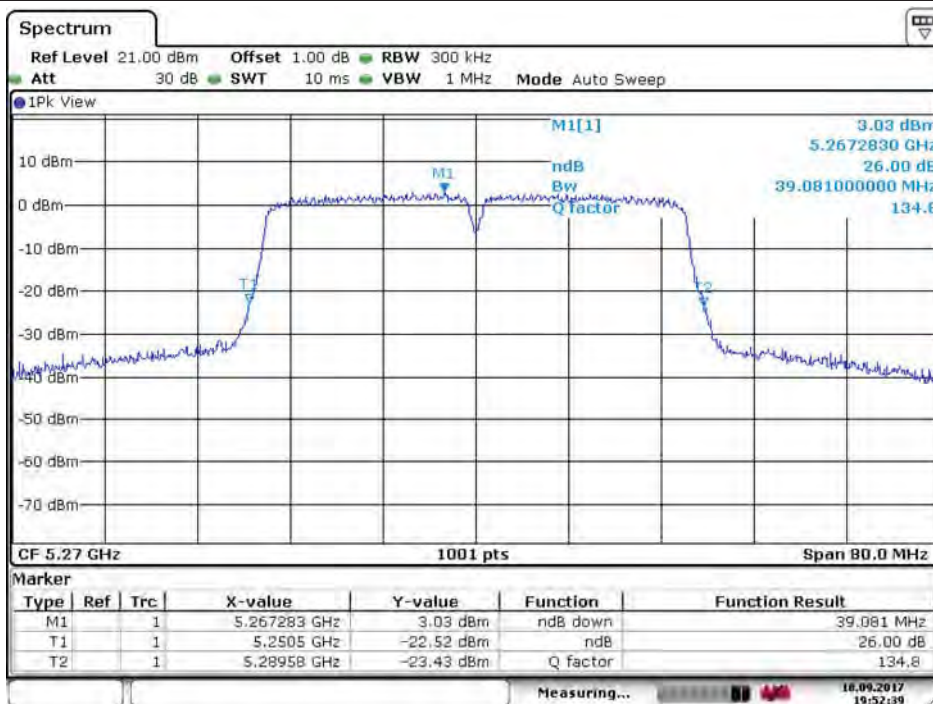
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5230
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Date: 18.SEP.2017 19:50:58

Test mode:	802.11ac(HT40)	Frequency(MHz):	5270
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Date: 18.SEP.2017 19:52:39

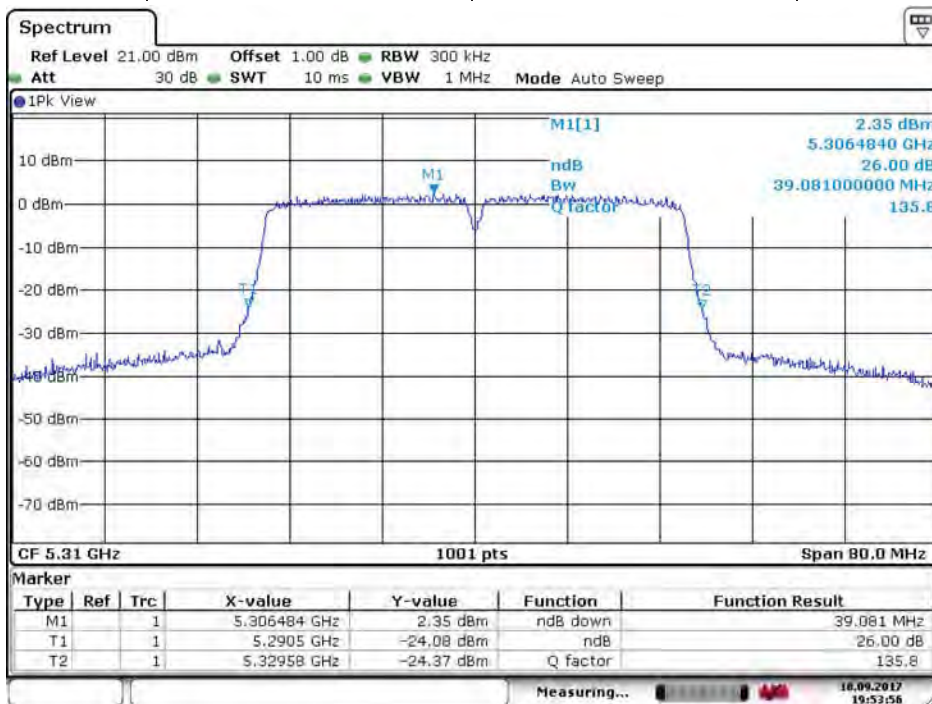


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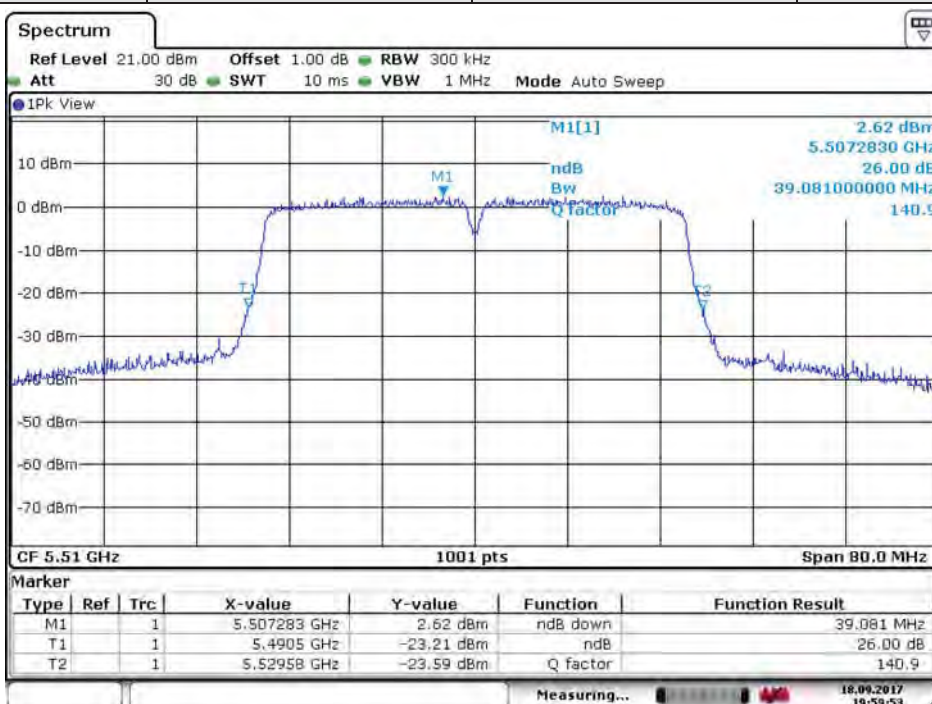
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5310
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Date: 18.SEP.2017 19:53:57

Test mode:	802.11ac(HT40)	Frequency(MHz):	5510
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Date: 18.SEP.2017 19:59:53

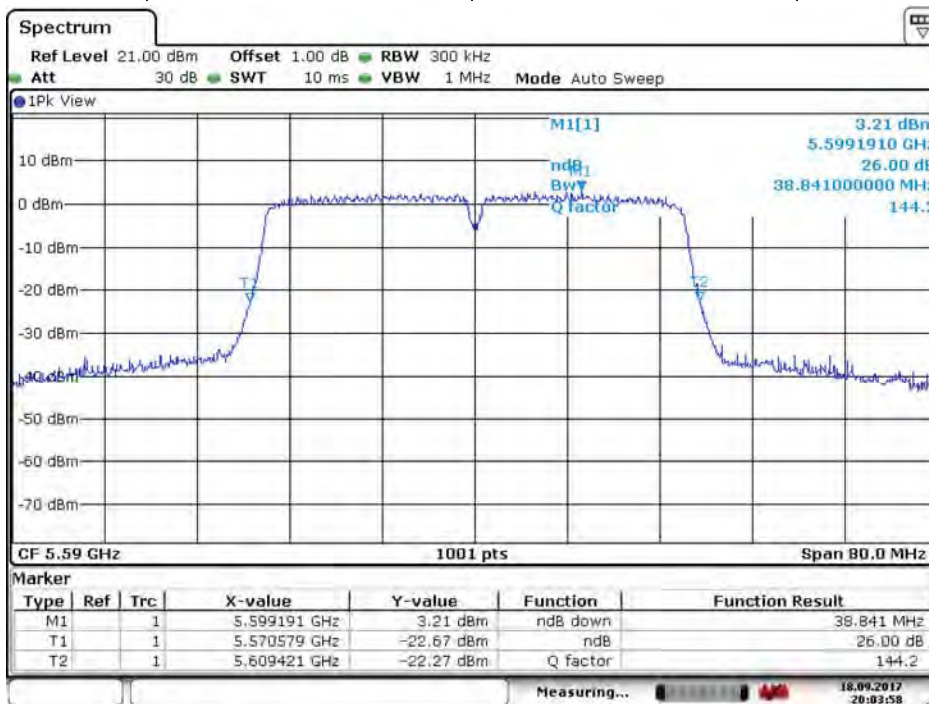


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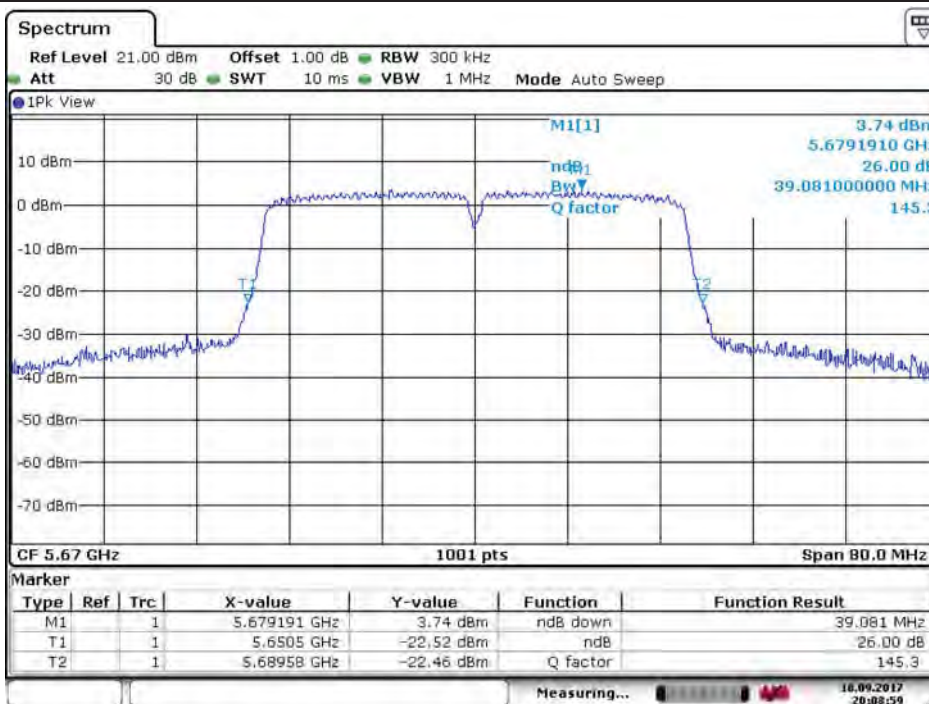
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5590
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Date: 18.SEP.2017 20:03:58

Test mode:	802.11ac(HT40)	Frequency(MHz):	5670
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Date: 18.SEP.2017 20:08:59

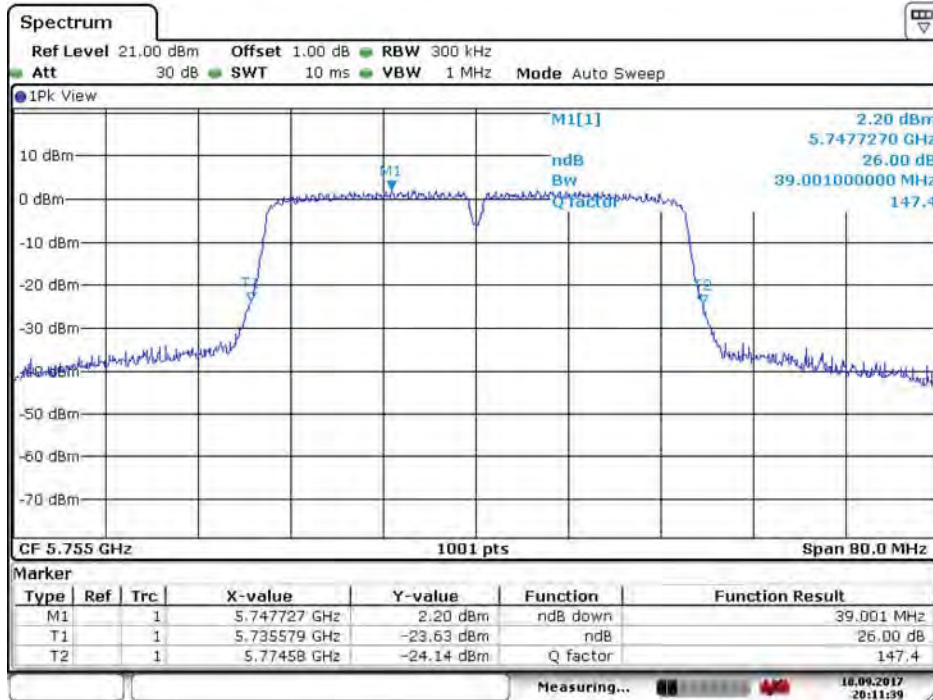


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Report No.: SZEM170800926003

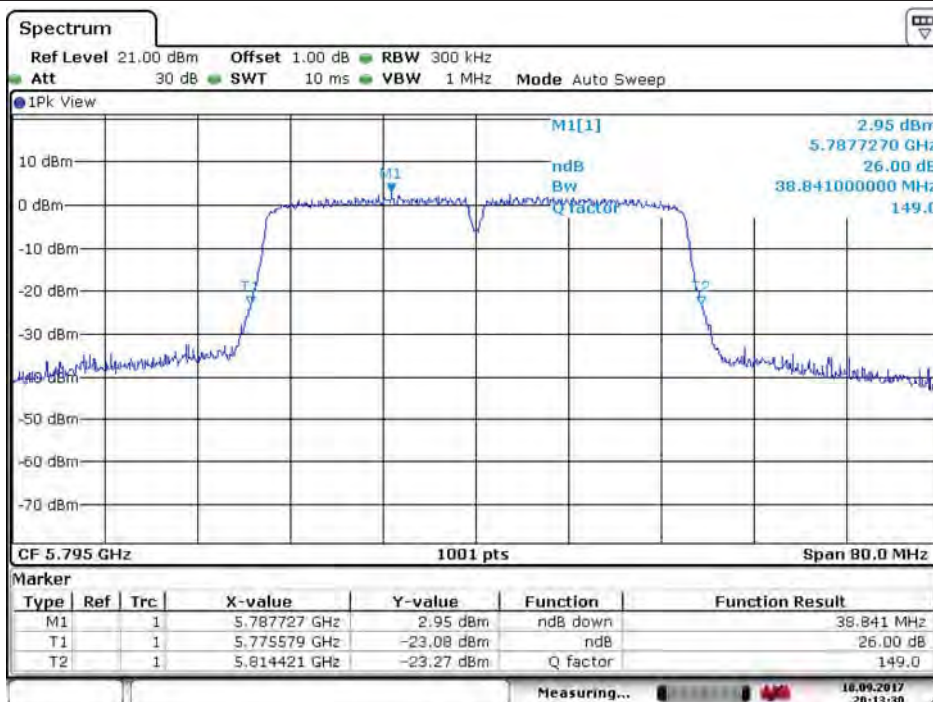
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5755
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Date: 18.SEP.2017 20:11:40

Test mode:	802.11ac(HT40)	Frequency(MHz):	5795
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Date: 18.SEP.2017 20:13:30

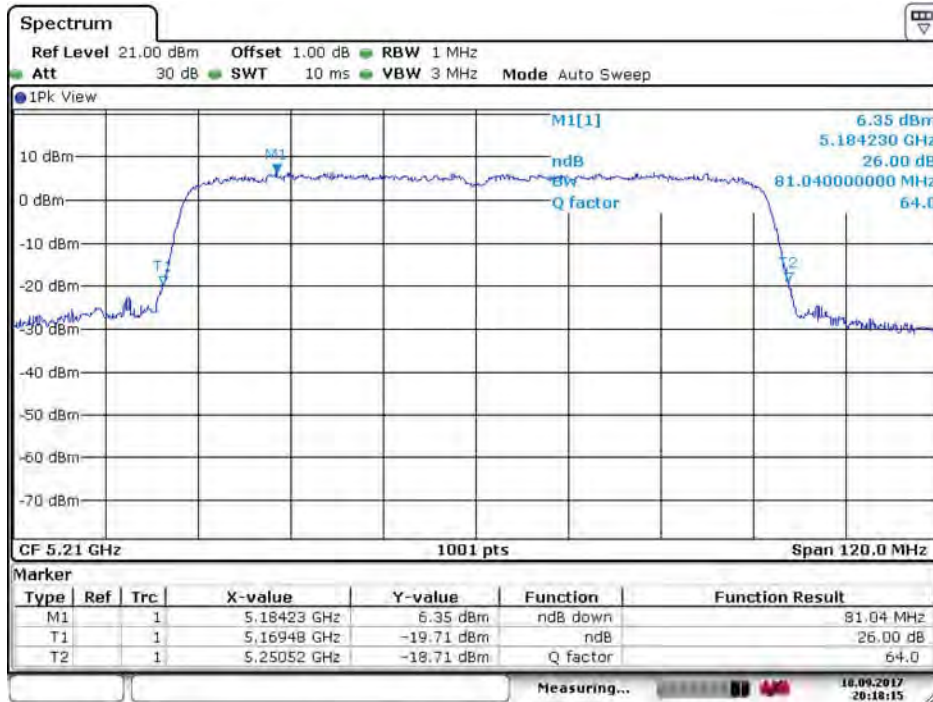


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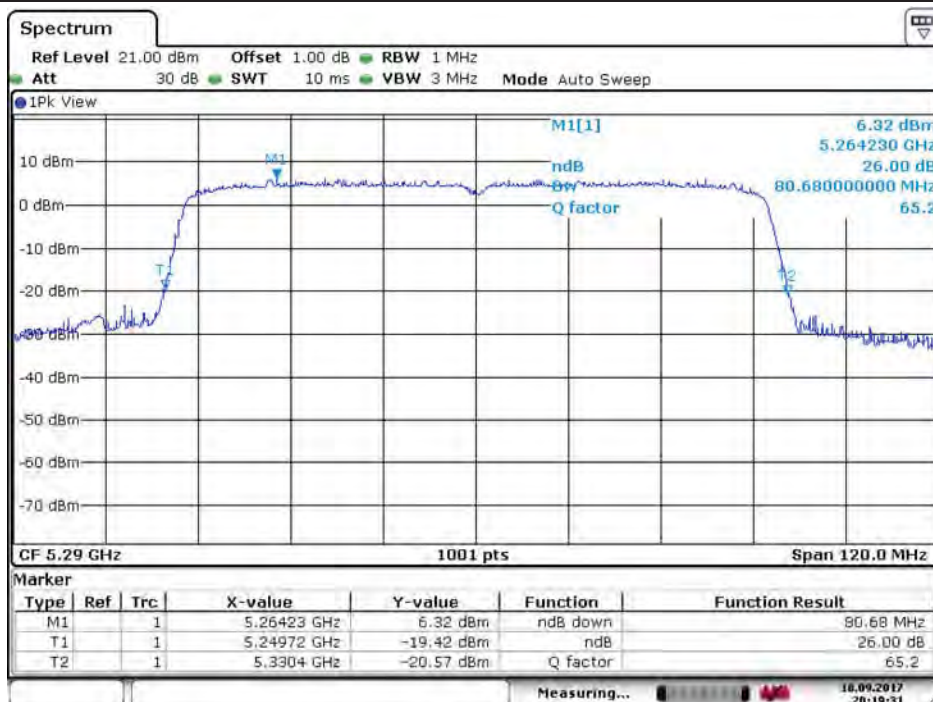
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Test mode:	802.11ac(HT80)	Frequency(MHz):	5210
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Date: 18.SEP.2017 20:18:15

Test mode:	802.11ac(HT80)	Frequency(MHz):	5290
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Date: 18.SEP.2017 20:19:31

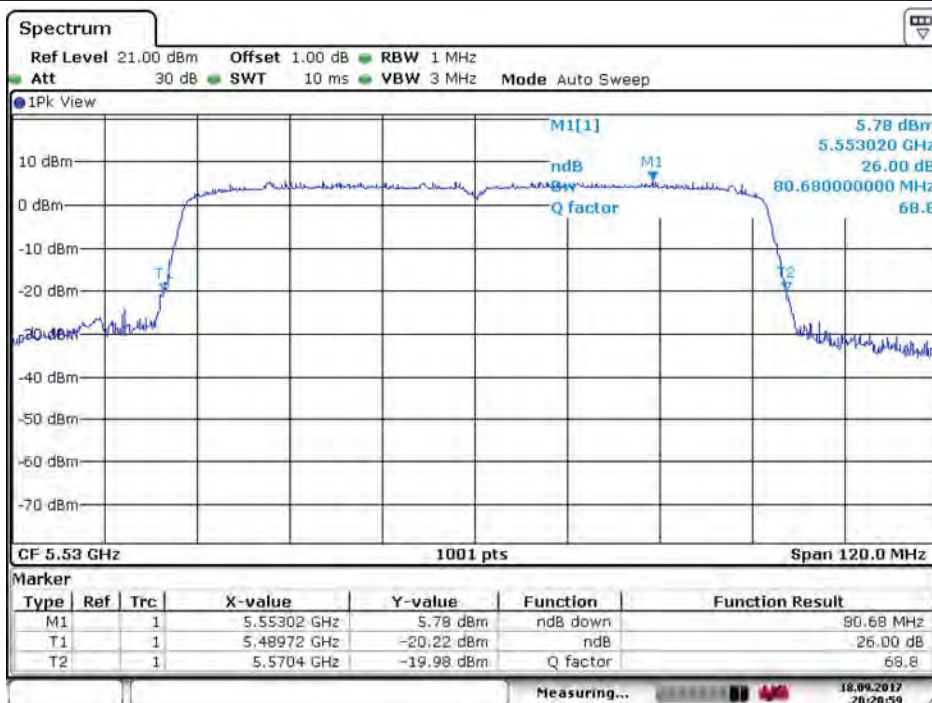


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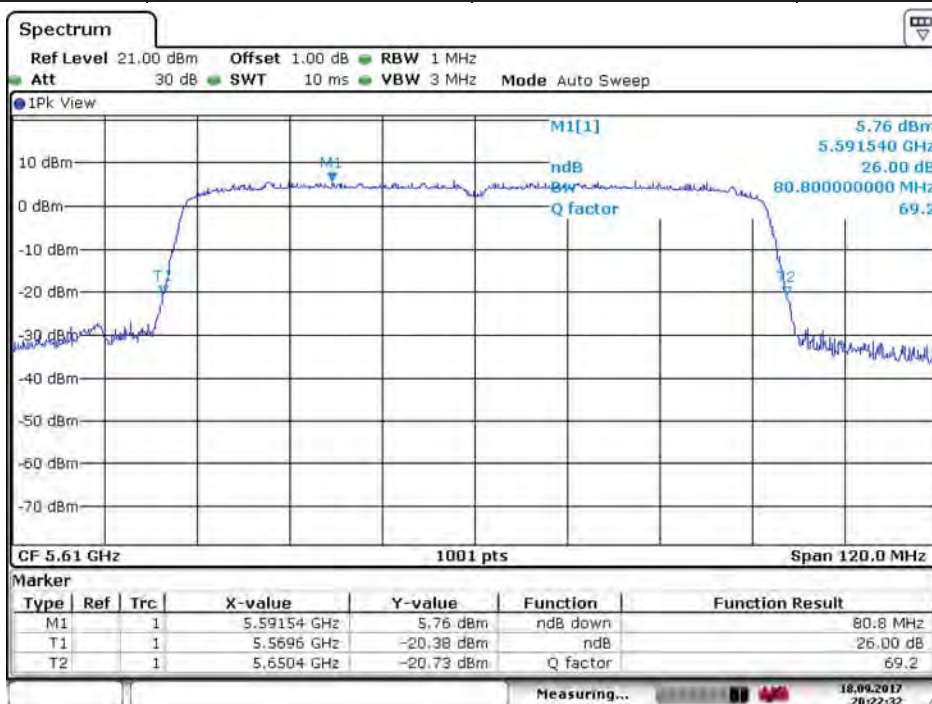
Page: 54 of 411

Test mode:	802.11ac(HT80)	Frequency(MHz):	5530
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Date: 18.SEP.2017 20:20:59

Test mode:	802.11ac(HT80)	Frequency(MHz):	5610
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Date: 18.SEP.2017 20:22:33

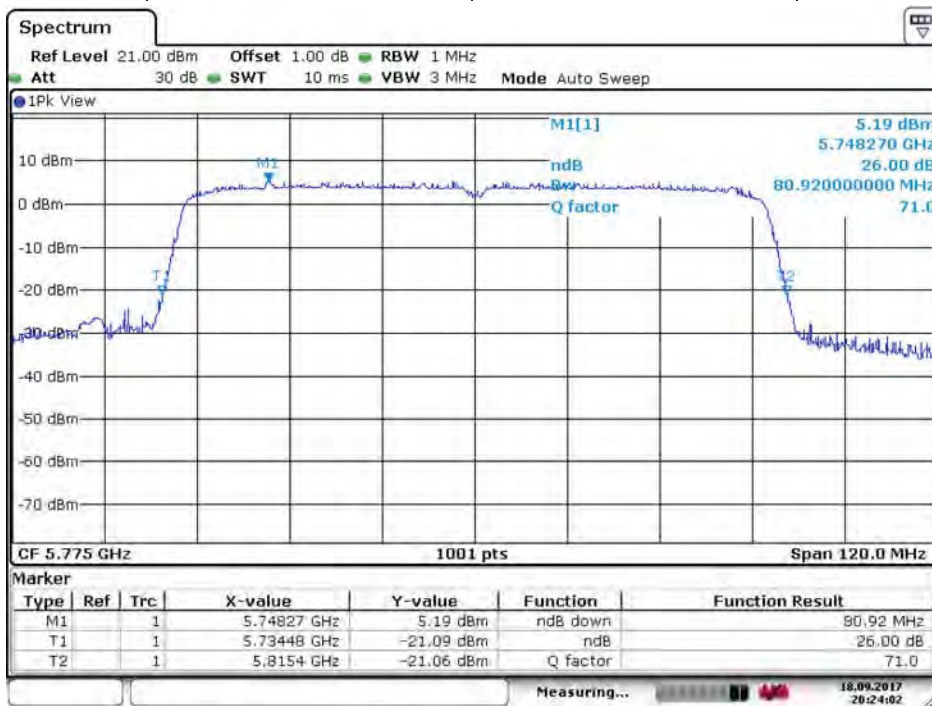


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Test mode:	802.11ac(HT80)	Frequency(MHz):	5775
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Date: 18.SEP.2017 20:24:03

99% occupied bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Date: 18.SEP.2017 14:07:59

Test mode:	802.11a	Frequency(MHz):	5220
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Date: 18 SEP 2017 14:12:28

Test mode:	802.11a	Frequency(MHz):	5240
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Date: 18.SEP.2017 14:15:06

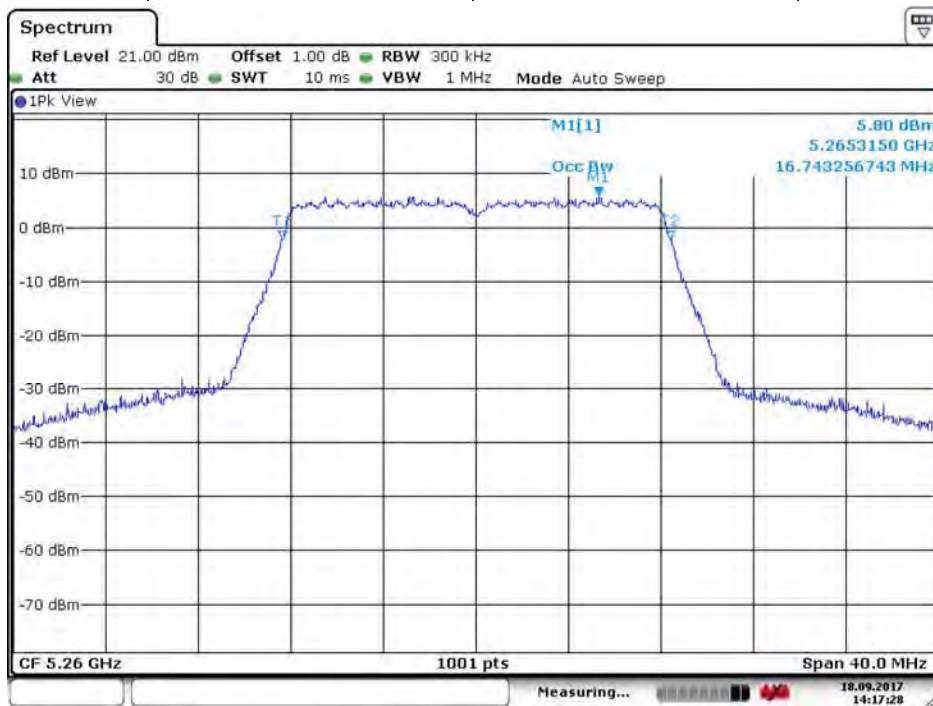


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Test mode:	802.11a	Frequency(MHz):	5260
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Date: 18.SEP.2017 14:17:28

Test mode:	802.11a	Frequency(MHz):	5300
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Date: 18.SEP.2017 14:20:01



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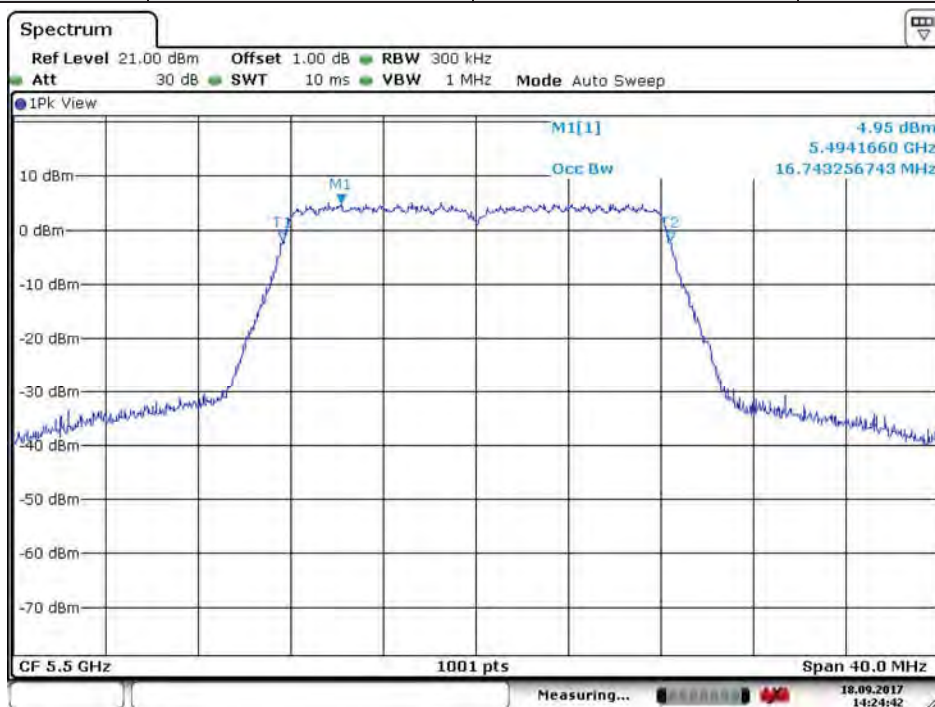
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Test mode:	802.11a	Frequency(MHz):	5320
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Date: 18.SEP.2017 14:22:41

Test mode:	802.11a	Frequency(MHz):	5500
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Date: 18.SEP.2017 14:24:42

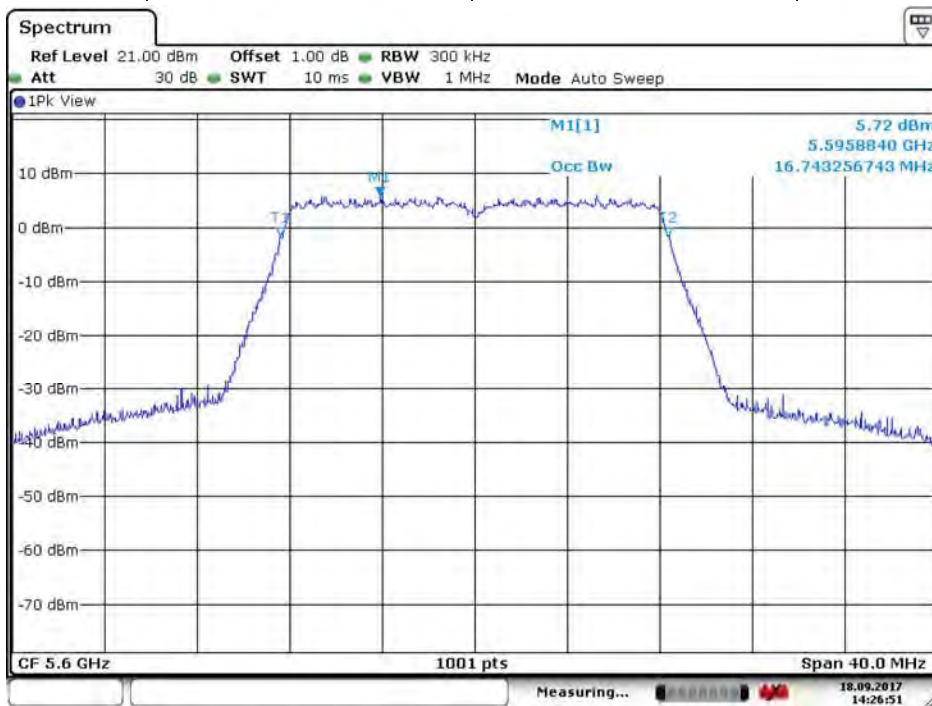


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Test mode:	802.11a	Frequency(MHz):	5600
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Date: 18.SEP.2017 14:26:52

Test mode:	802.11a	Frequency(MHz):	5700
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Date: 18.SEP.2017 14:29:29

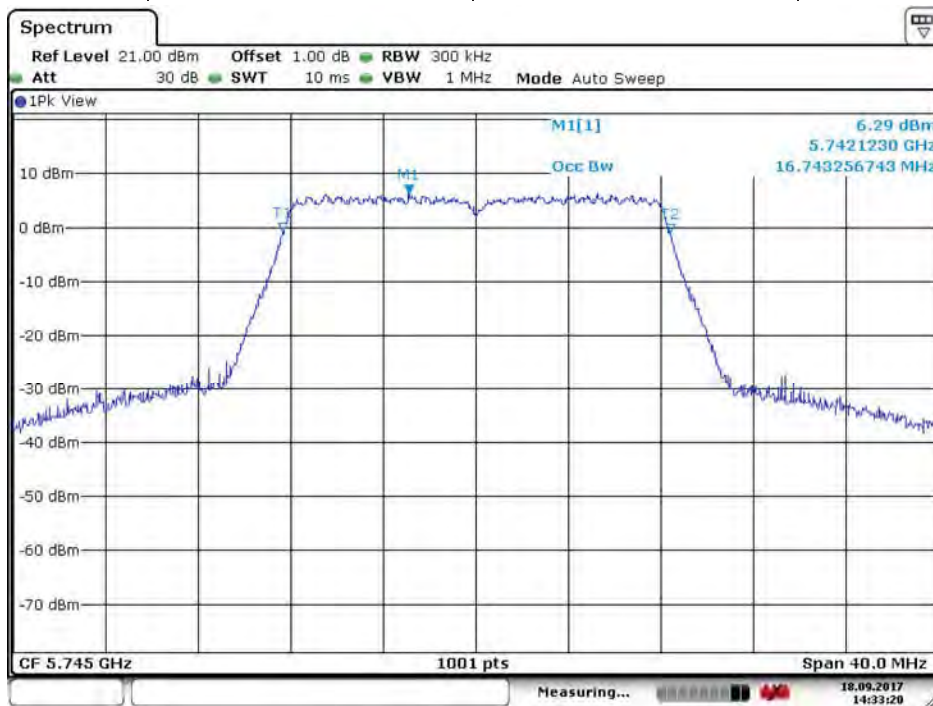


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Test mode:	802.11a	Frequency(MHz):	5745
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Date: 18.SEP.2017 14:33:20

Test mode:	802.11a	Frequency(MHz):	5785
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Date: 18.SEP.2017 14:36:38



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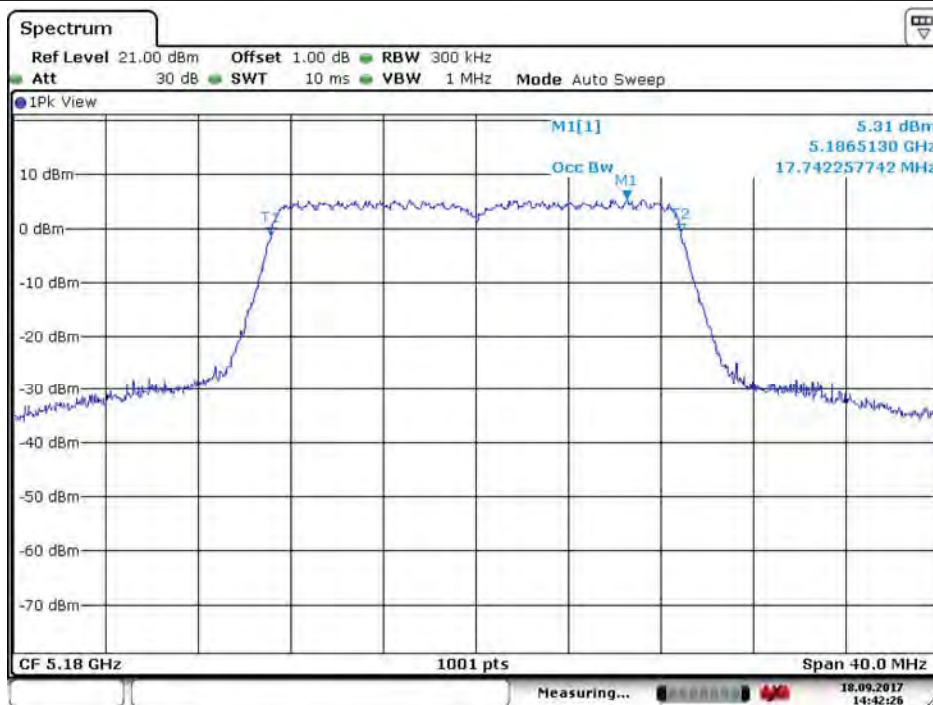
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Test mode:	802.11a	Frequency(MHz):	5825
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Date: 18.SEP.2017 14:38:42

Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Date: 18.SEP.2017 14:42:26

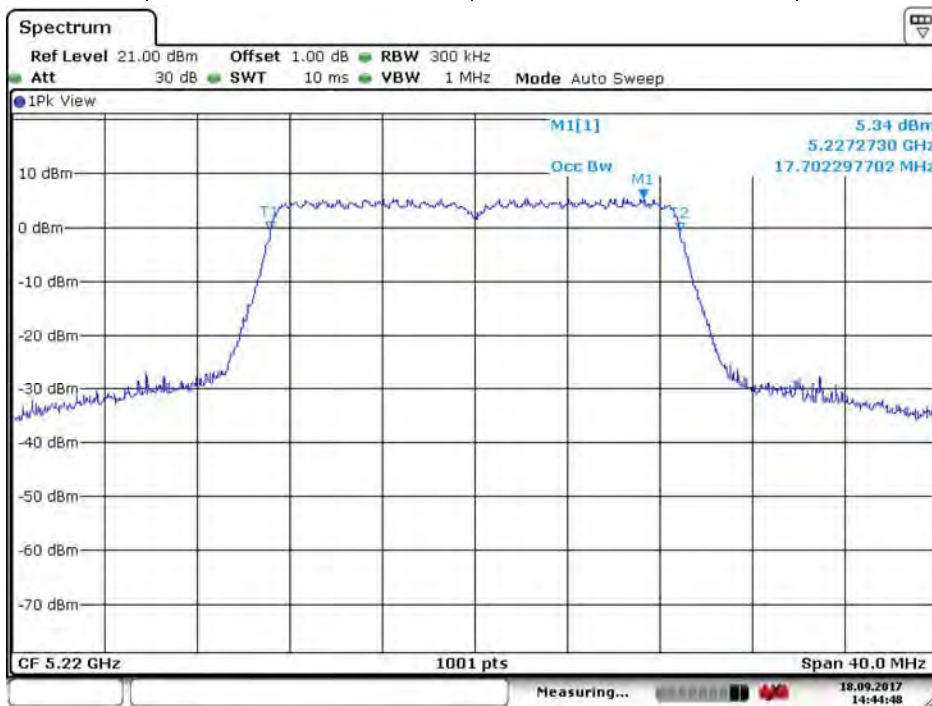


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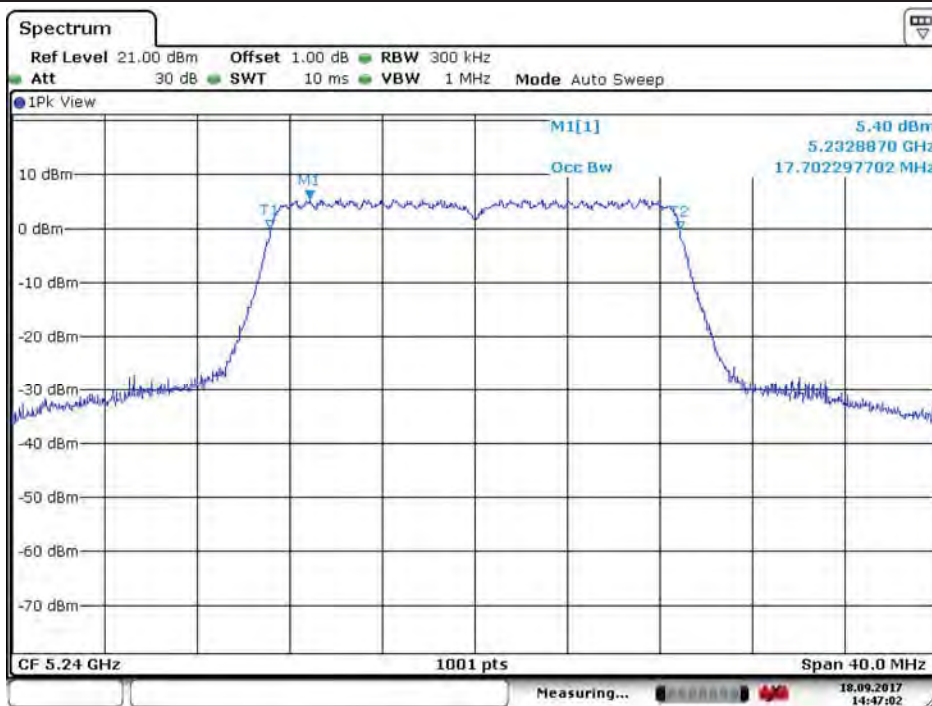
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Test mode:	802.11n(HT20)	Frequency(MHz):	5220
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Date: 18.SEP.2017 14:44:48

Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Date: 18.SEP.2017 14:47:03



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Test mode:	802.11n(HT20)	Frequency(MHz):	5260
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Date: 18.SEP.2017 14:48:47

Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Date: 18.SEP.2017 14:50:42



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Shenzhen Branch

Report No.: SZEM170800926003

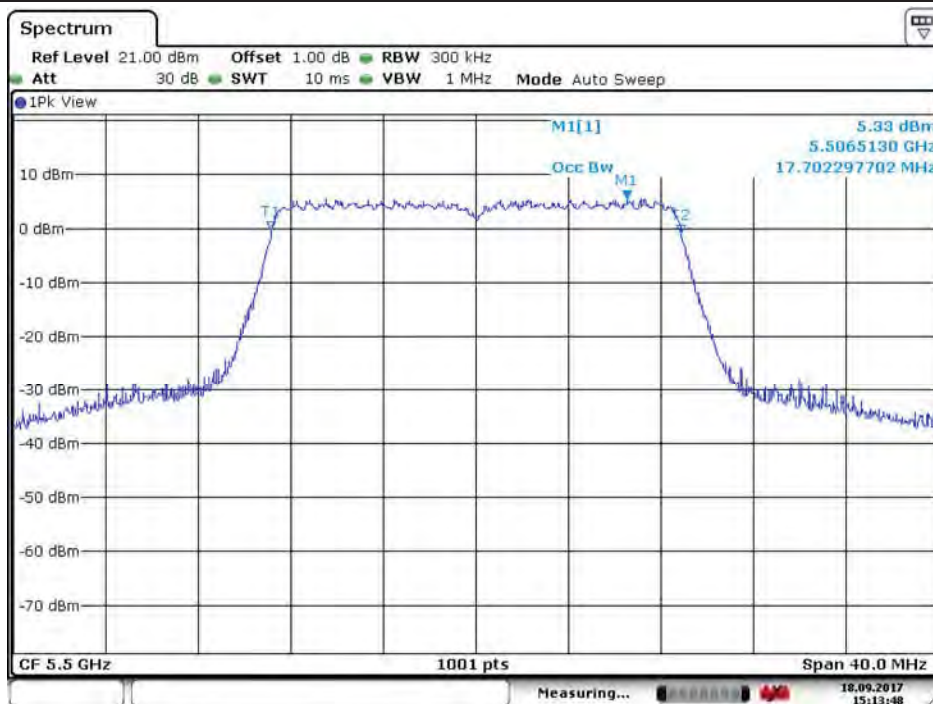
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Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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Date: 18.SEP.2017 14:52:27

Test mode:	802.11n(HT20)	Frequency(MHz):	5500
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Date: 18.SEP.2017 15:13:49

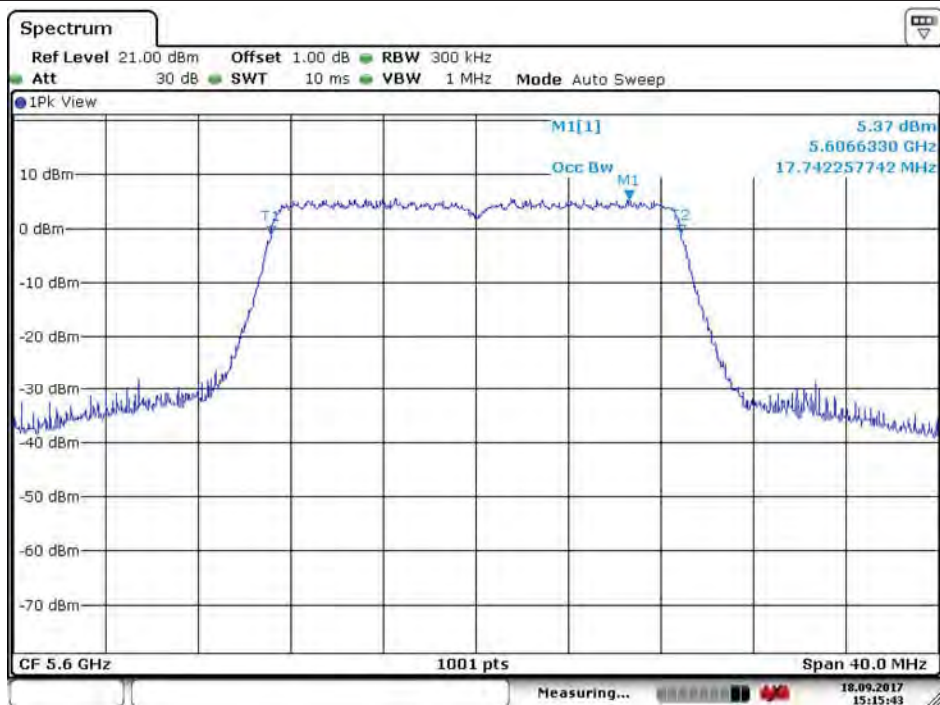


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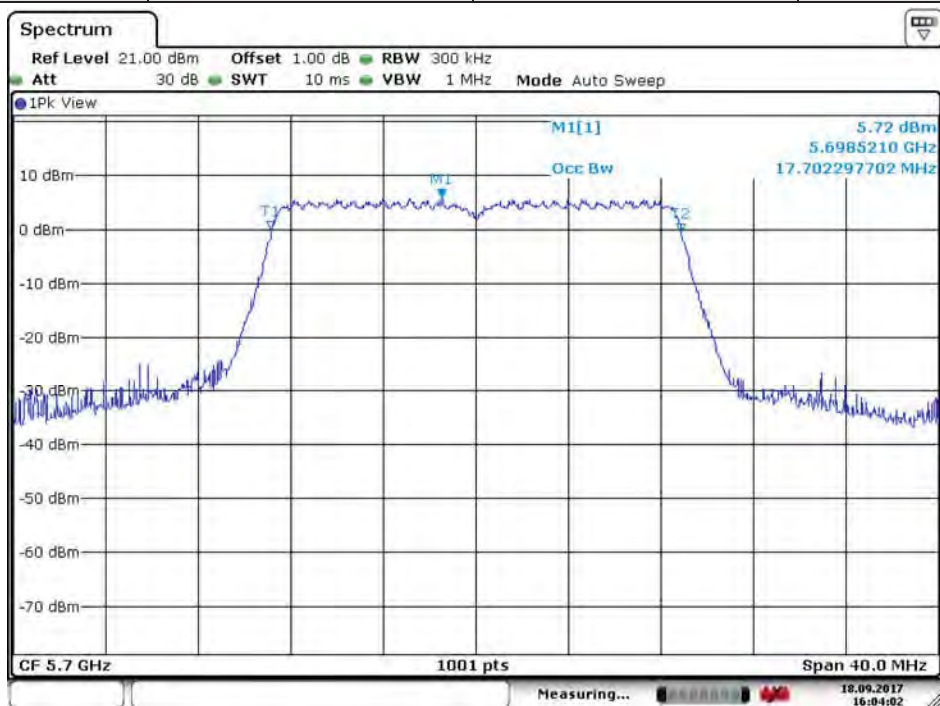
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Test mode:	802.11n(HT20)	Frequency(MHz):	5600
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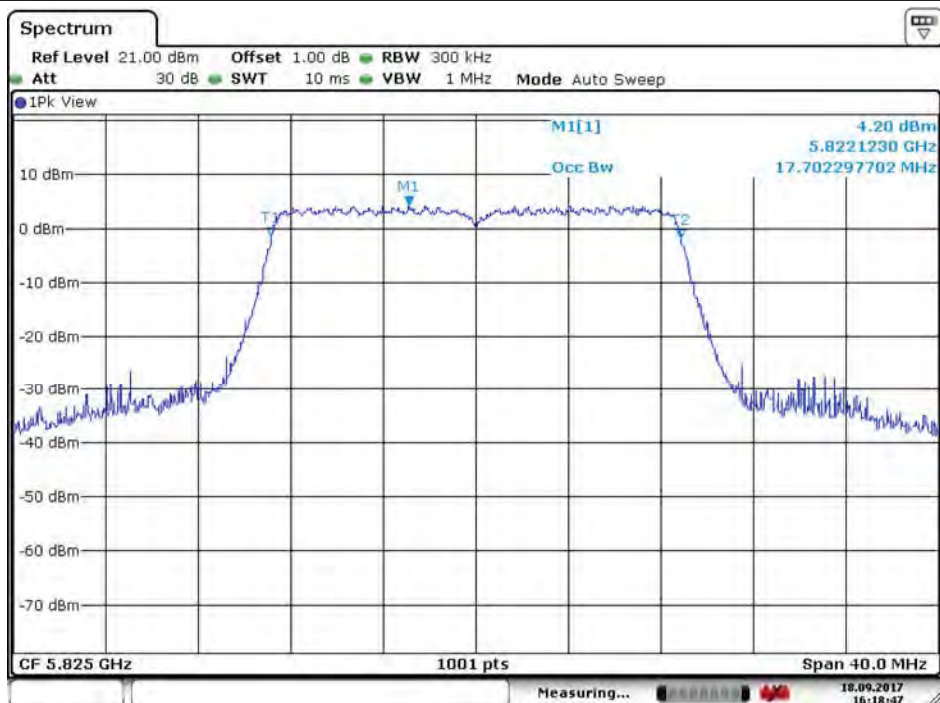
Date: 18.SEP.2017 15:15:43

Test mode:	802.11n(HT20)	Frequency(MHz):	5700
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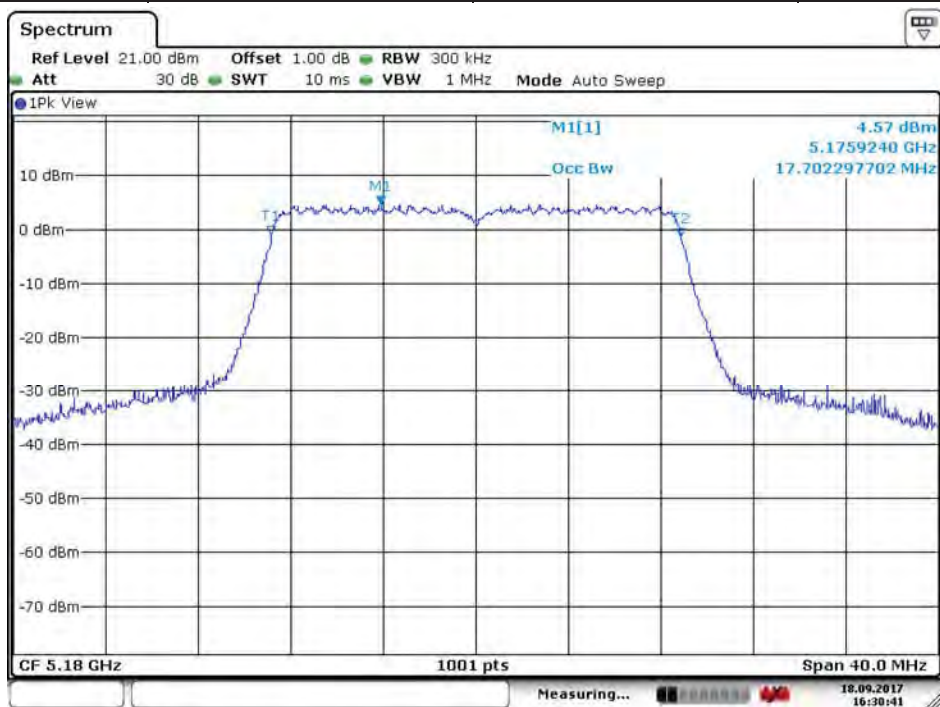
Date: 18.SEP.2017 16:04:02

Test mode:	802.11 n(HT20)	Frequency(MHz):	5825
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Date: 18.SEP.2017 16:18:48

Test mode:	802.11ac(HT20)	Frequency(MHz):	5180
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Date: 18 SEP 2017 16:30:41



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Test mode:	802.11ac(HT20)	Frequency(MHz):	5220
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Date: 18.SEP.2017 16:36:25

Test mode:	802.11ac(HT20)	Frequency(MHz):	5240
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Date: 18.SEP.2017 16:38:10

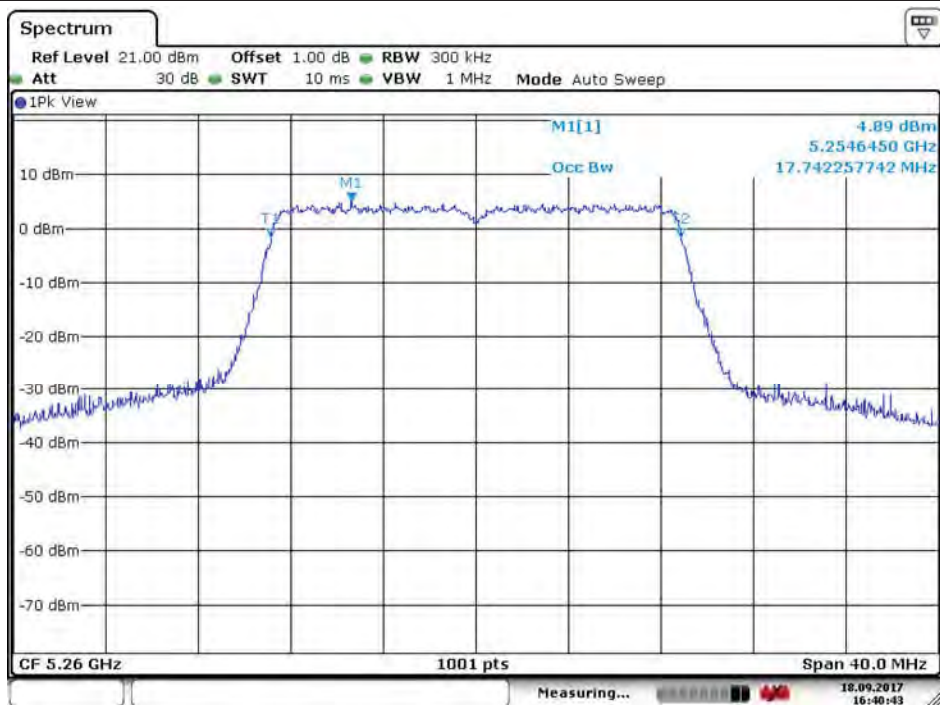


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Test mode:	802.11ac(HT20)	Frequency(MHz):	5260
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Date: 18.SEP.2017 16:40:44

Test mode:	802.11ac(HT20)	Frequency(MHz):	5300
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Date: 18.SEP.2017 16:42:34



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

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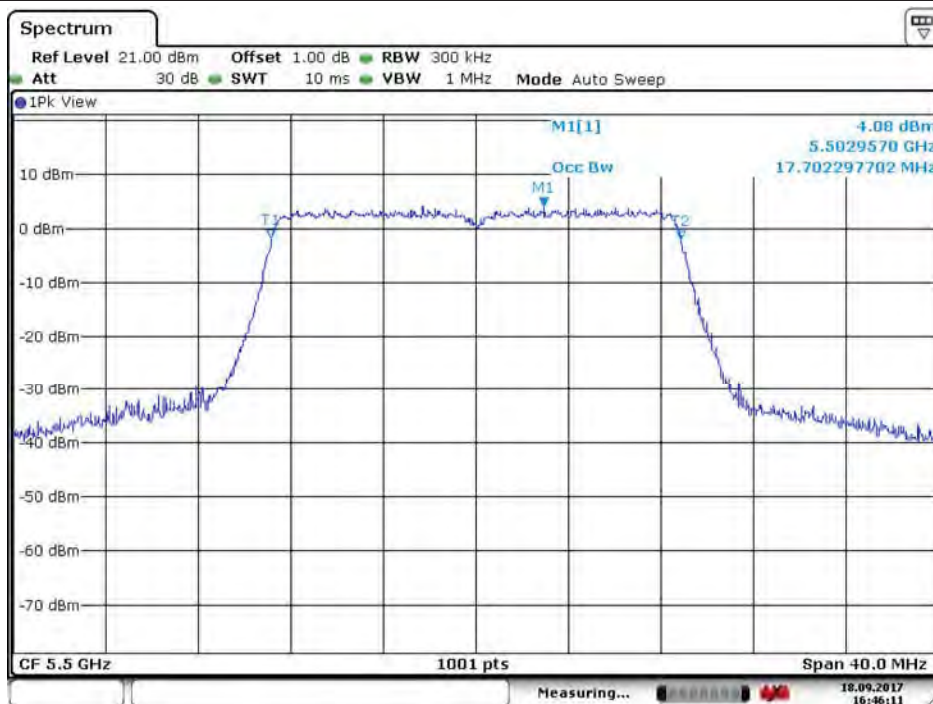
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5320
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Date: 18.SEP.2017 16:44:26

Test mode:	802.11ac(HT20)	Frequency(MHz):	5500
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Date: 18.SEP.2017 16:46:11

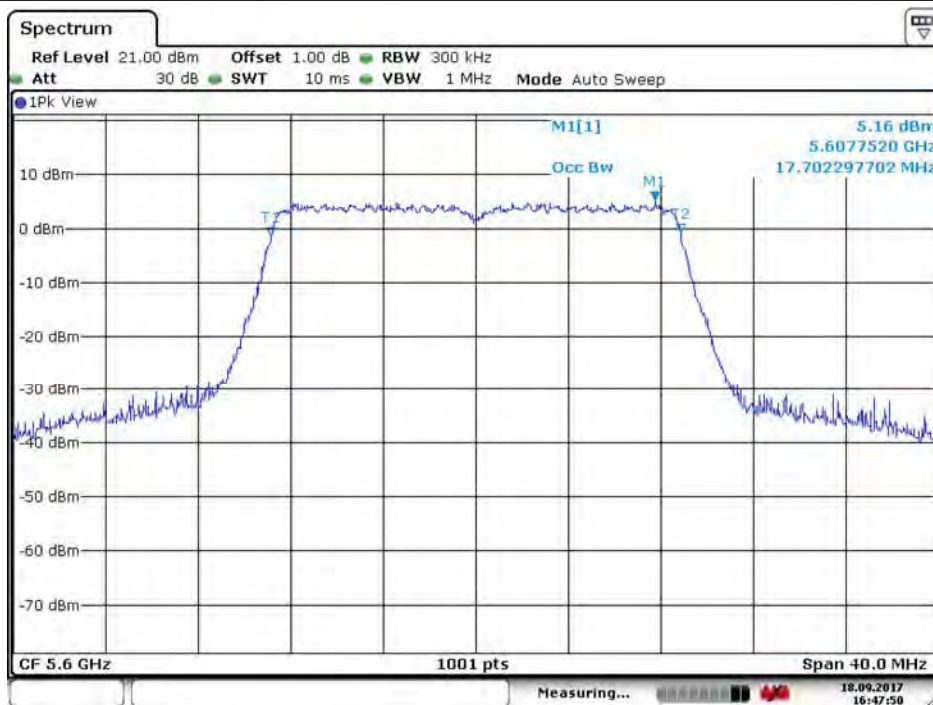


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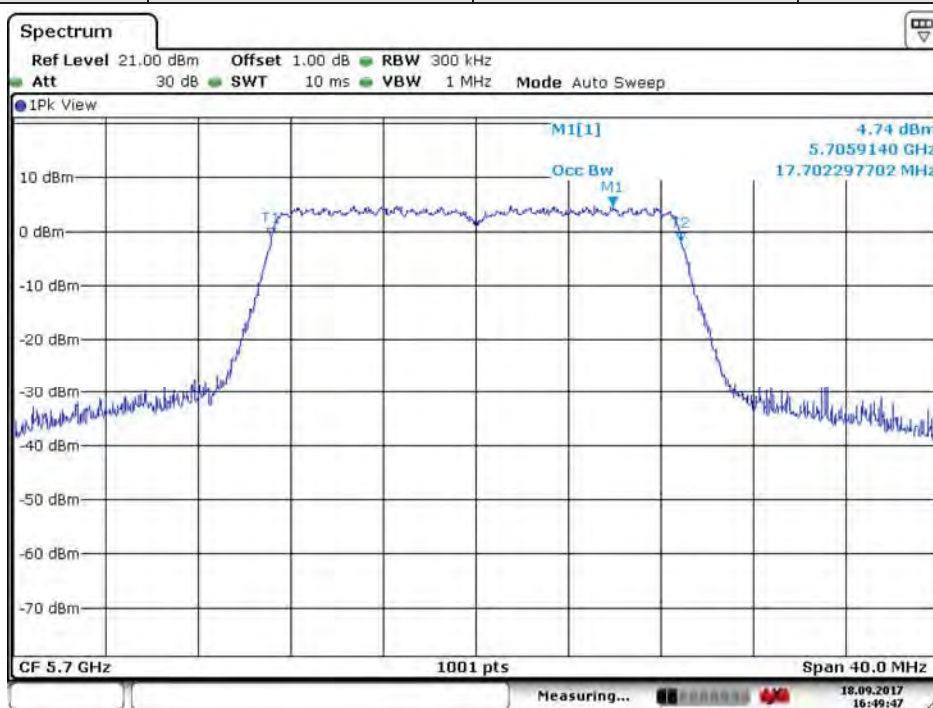
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5600
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Date: 18.SEP.2017 16:47:50

Test mode:	802.11ac(HT20)	Frequency(MHz):	5700
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Date: 18.SEP.2017 16:49:48

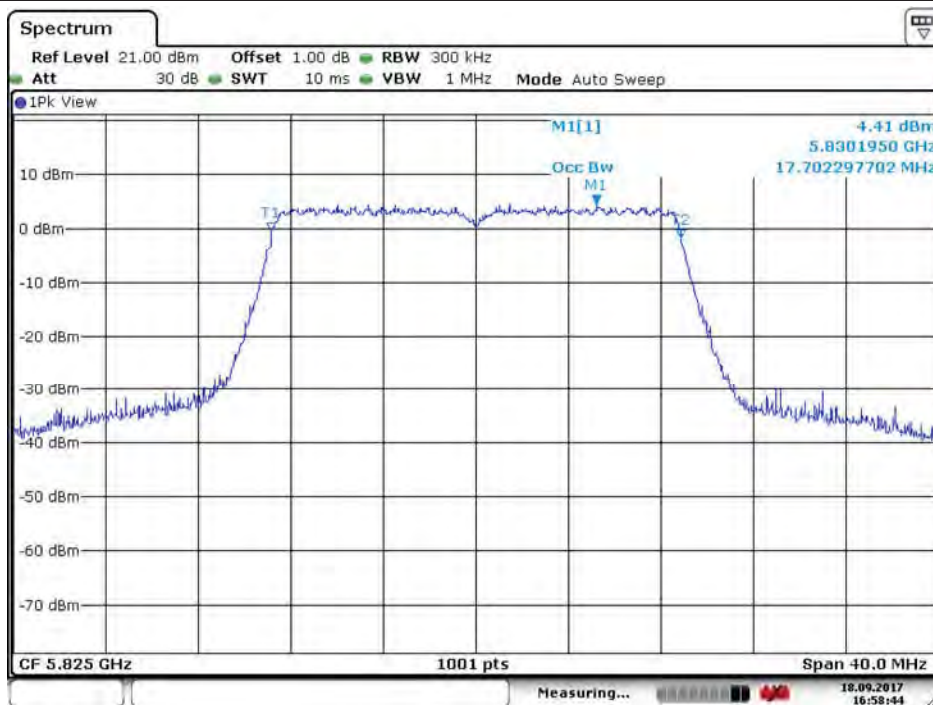


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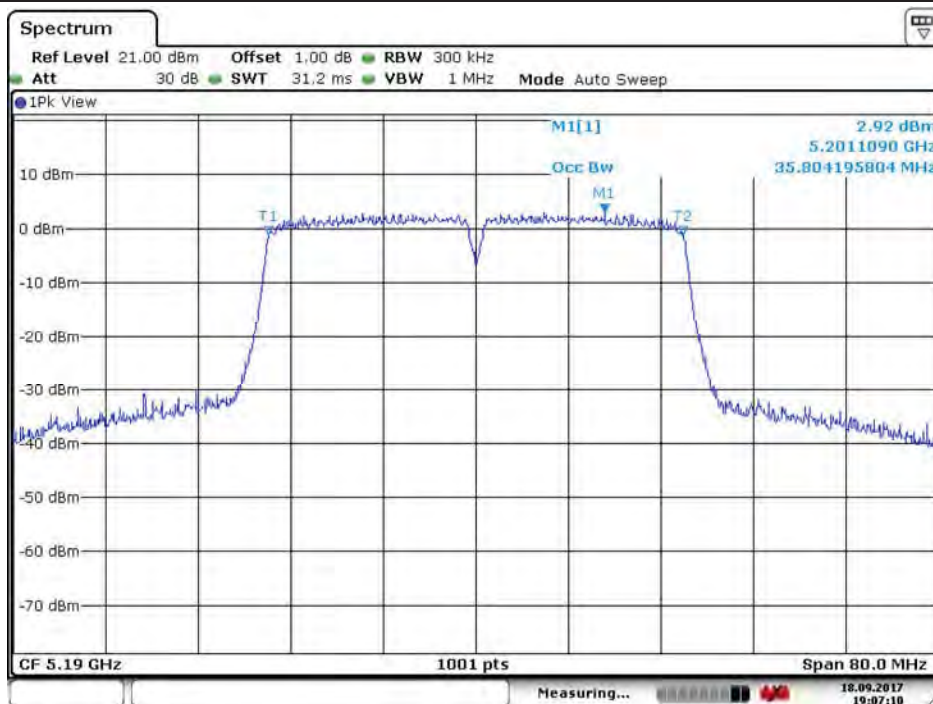
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5825
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Date: 18.SEP.2017 16:58:45

Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Date: 18.SEP.2017 19:07:10

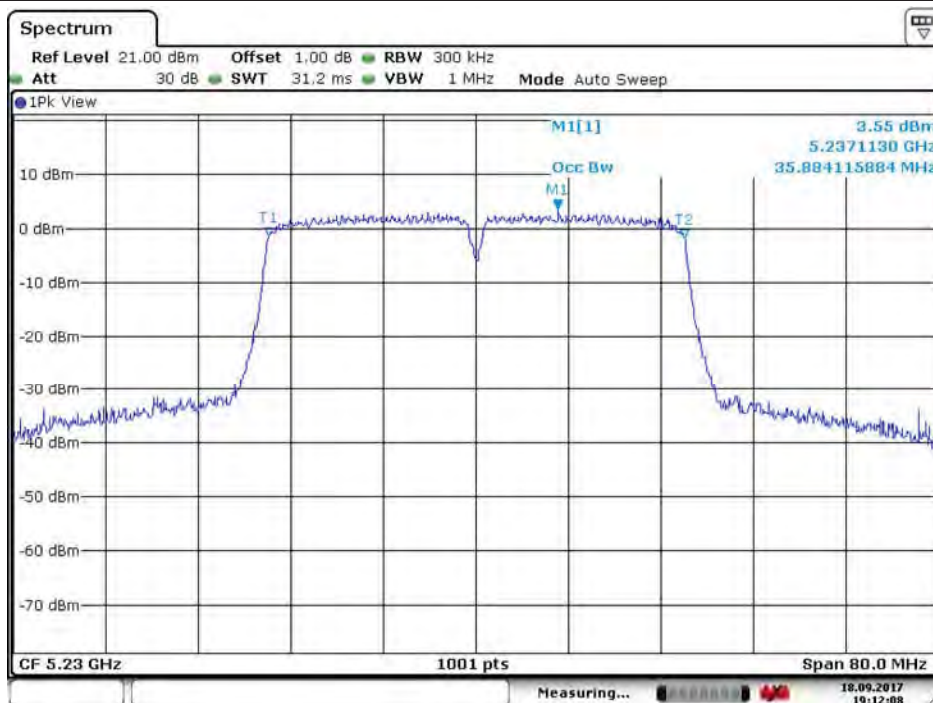


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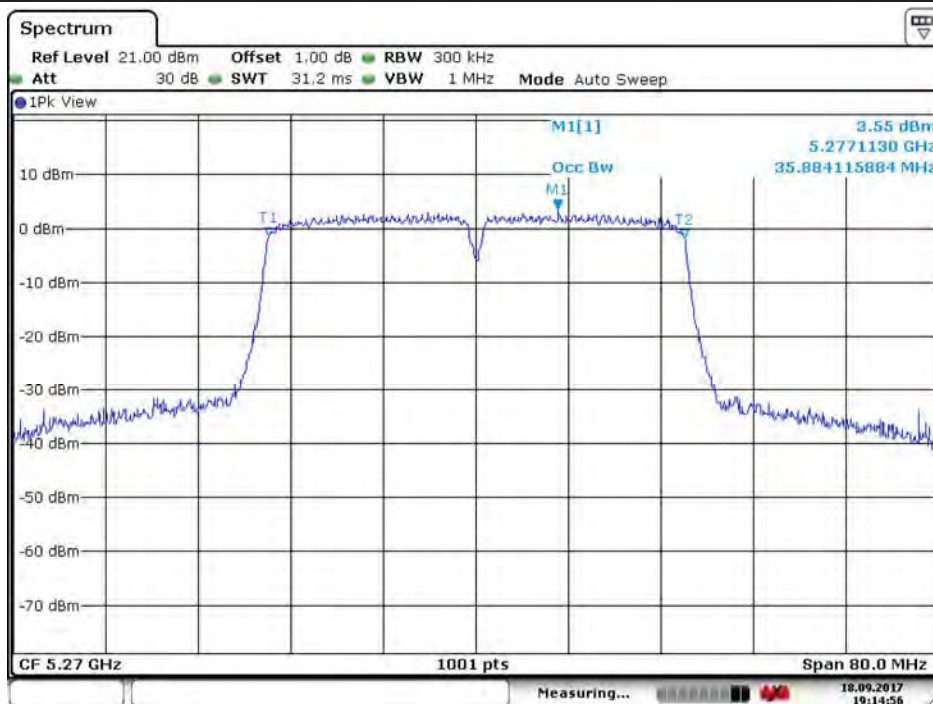
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Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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Date: 18.SEP.2017 19:12:08

Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Date: 18.SEP.2017 19:14:57

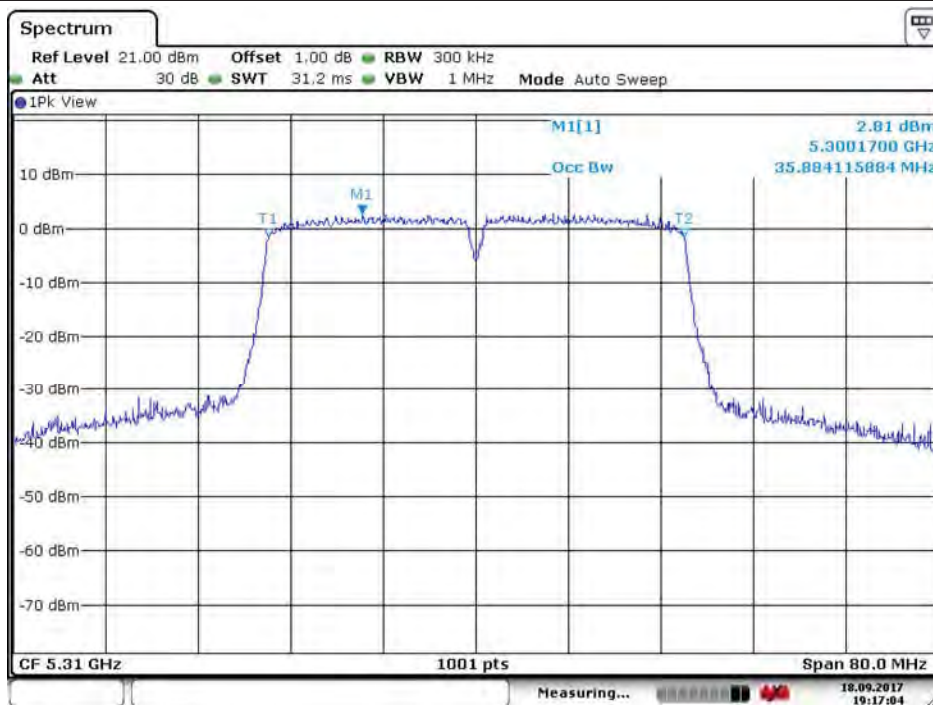


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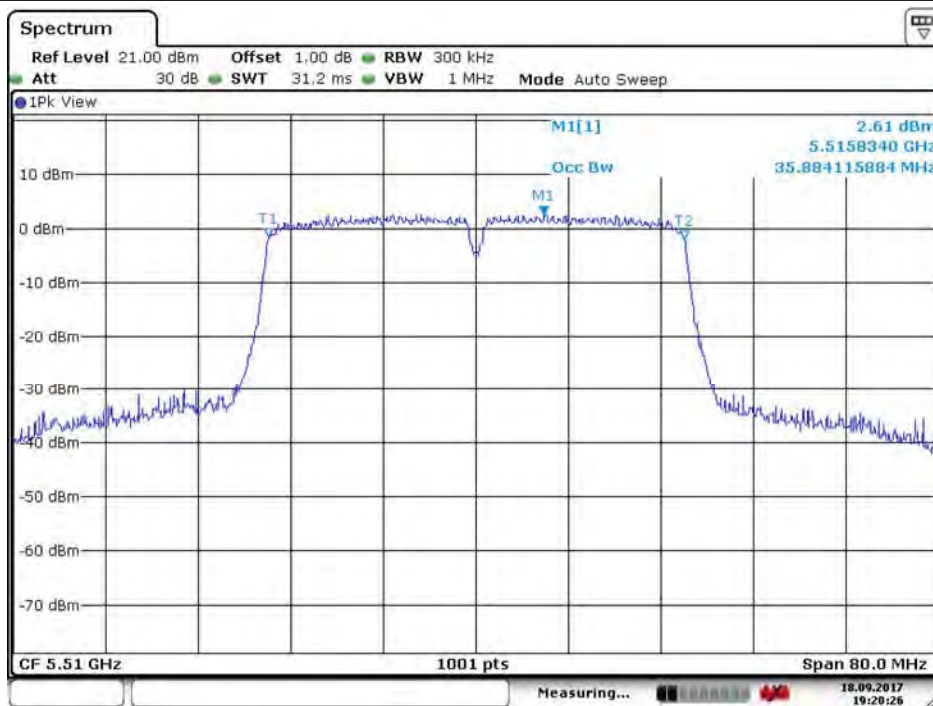
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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Date: 18.SEP.2017 19:17:05

Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Date: 18.SEP.2017 19:20:26

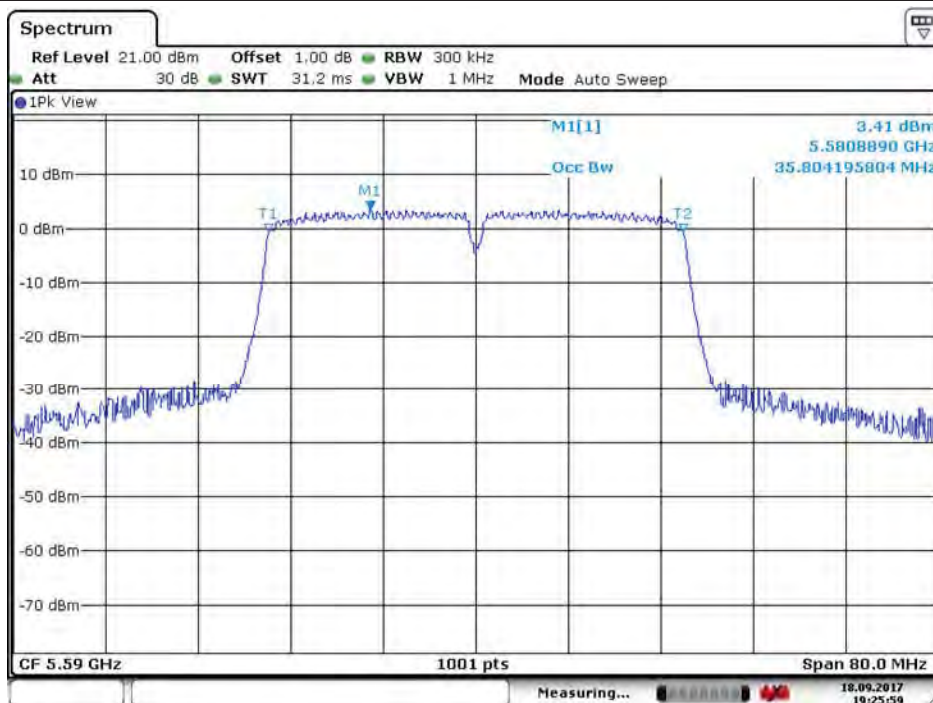


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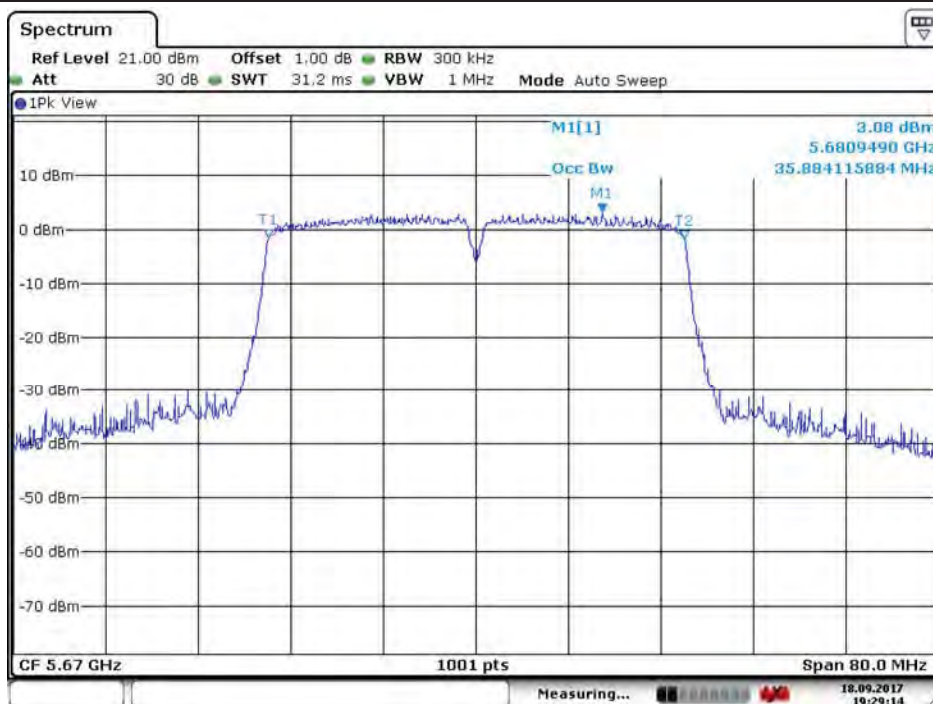
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Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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Date: 18.SEP.2017 19:26:00

Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Date: 18.SEP.2017 19:29:14

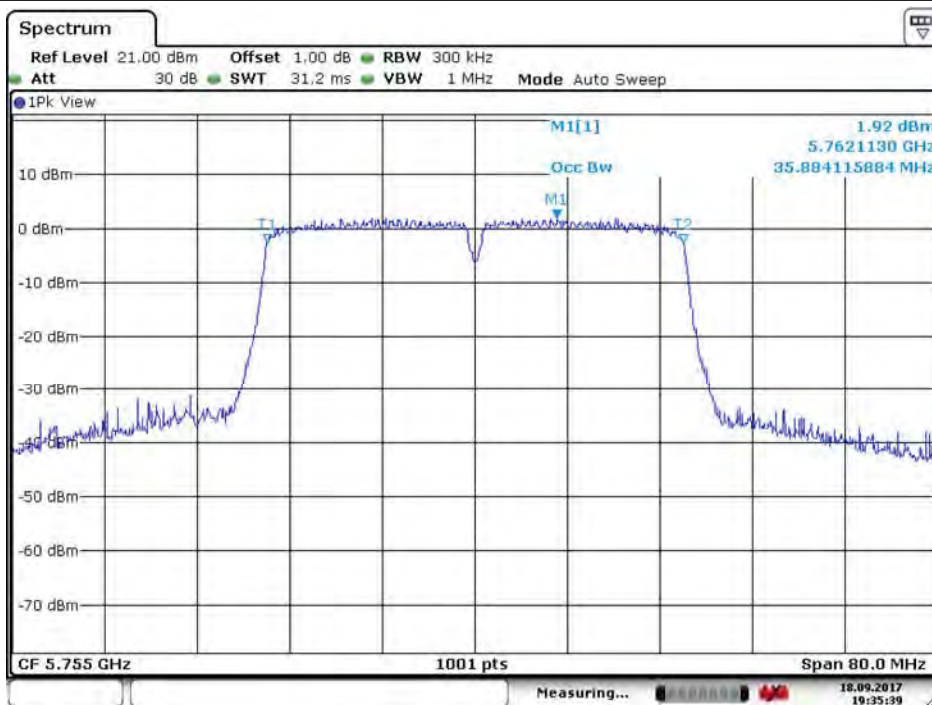


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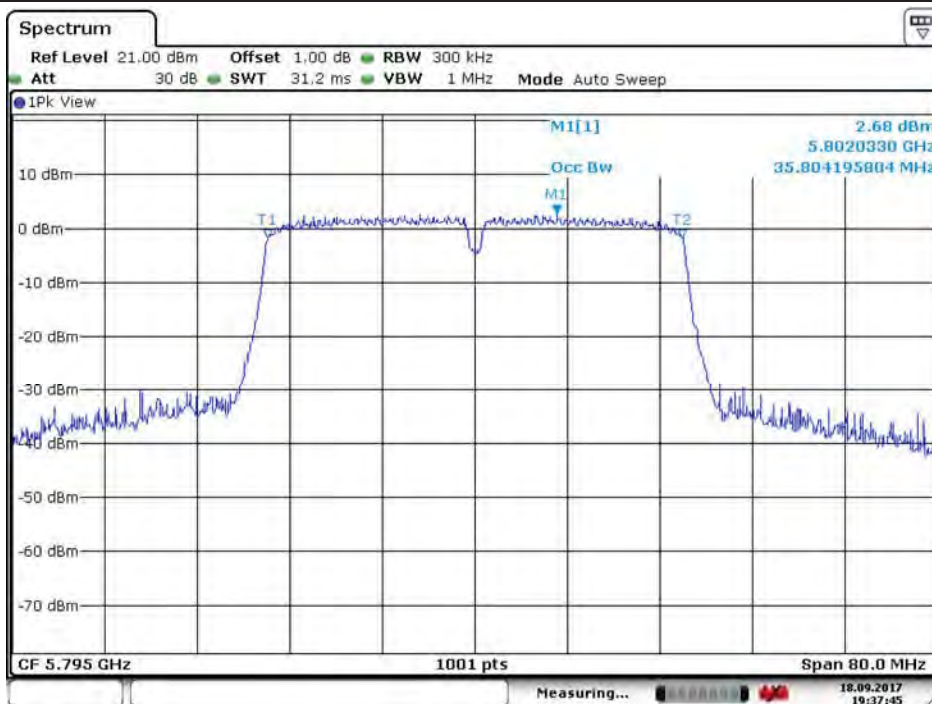
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Test mode:	802.11 n(HT40)	Frequency(MHz):	5755
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Date: 18.SEP.2017 19:35:40

Test mode:	802.11 n(HT40)	Frequency(MHz):	5795
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Date: 18.SEP.2017 19:37:46

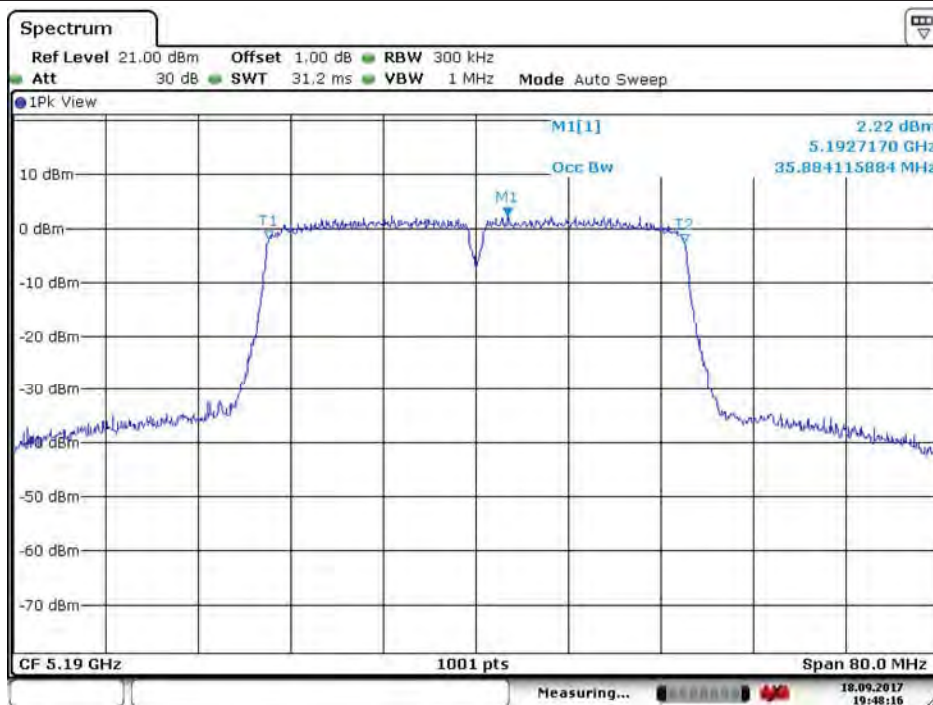


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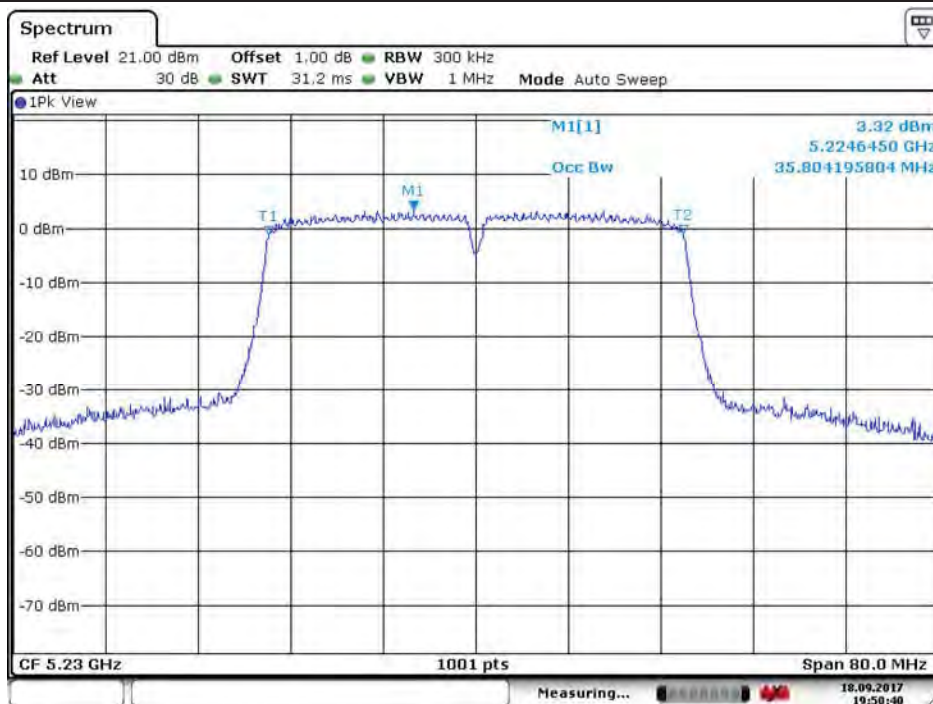
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5190
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Date: 18.SEP.2017 19:48:16

Test mode:	802.11ac(HT40)	Frequency(MHz):	5230
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Date: 18.SEP.2017 19:50:40

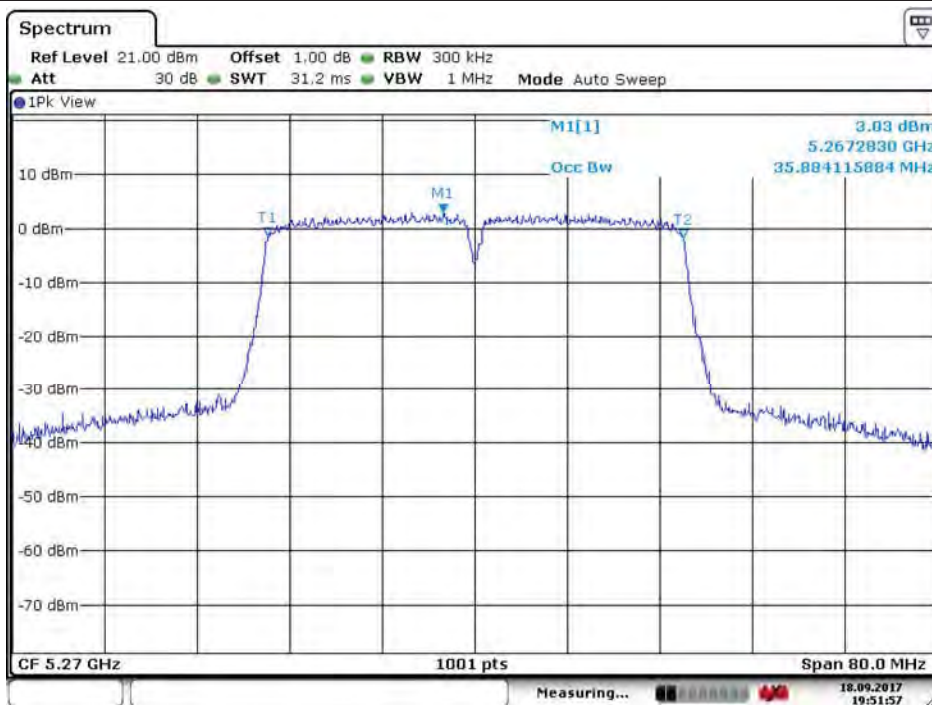


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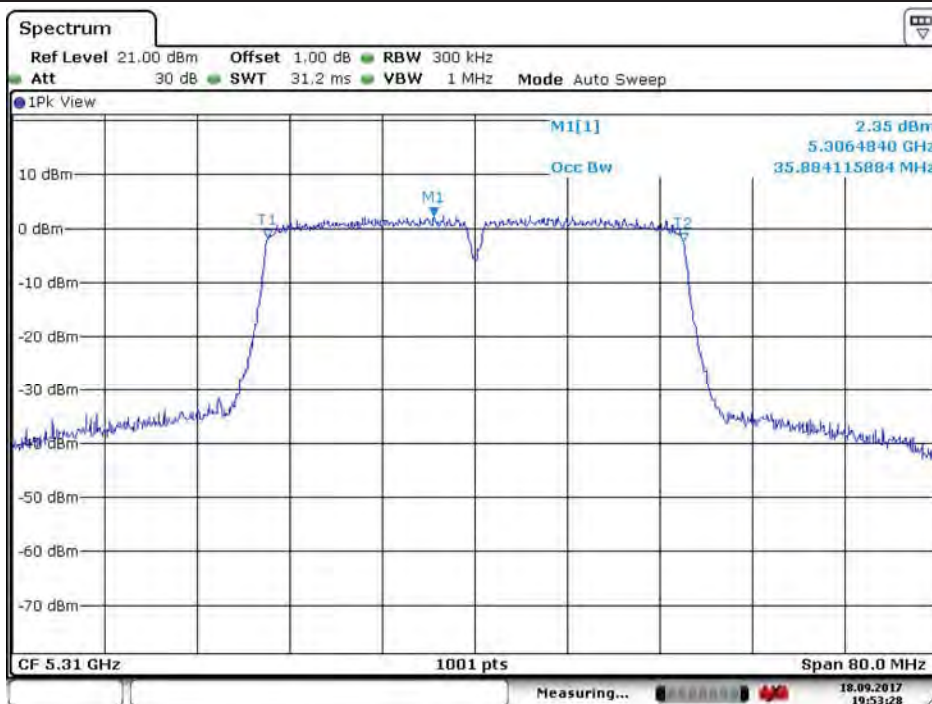
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5270
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Date: 18.SEP.2017 19:51:58

Test mode:	802.11ac(HT40)	Frequency(MHz):	5310
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Date: 18.SEP.2017 19:53:28

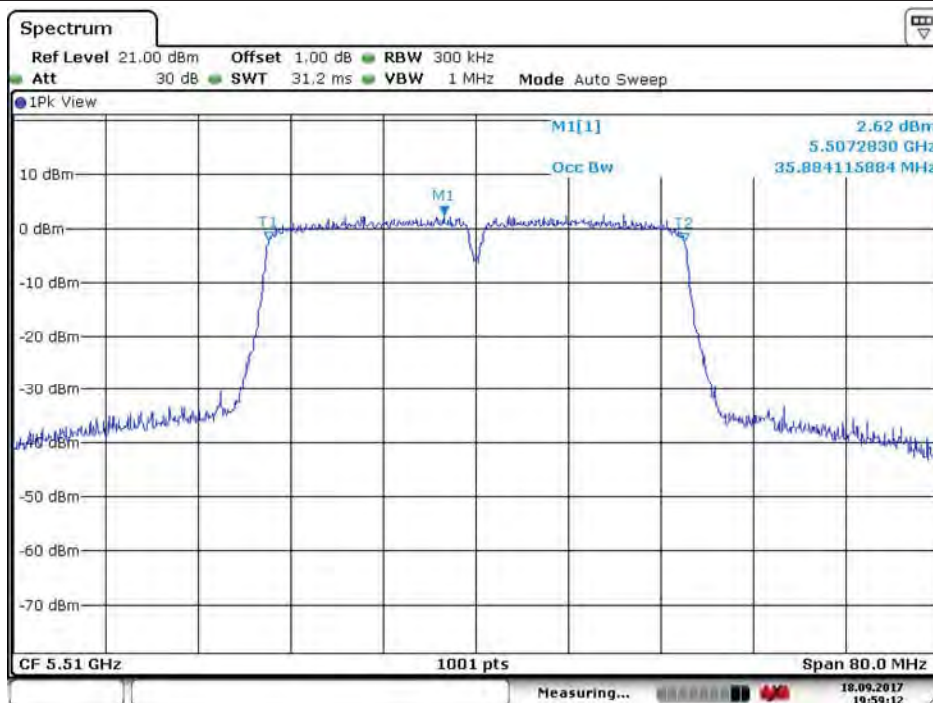


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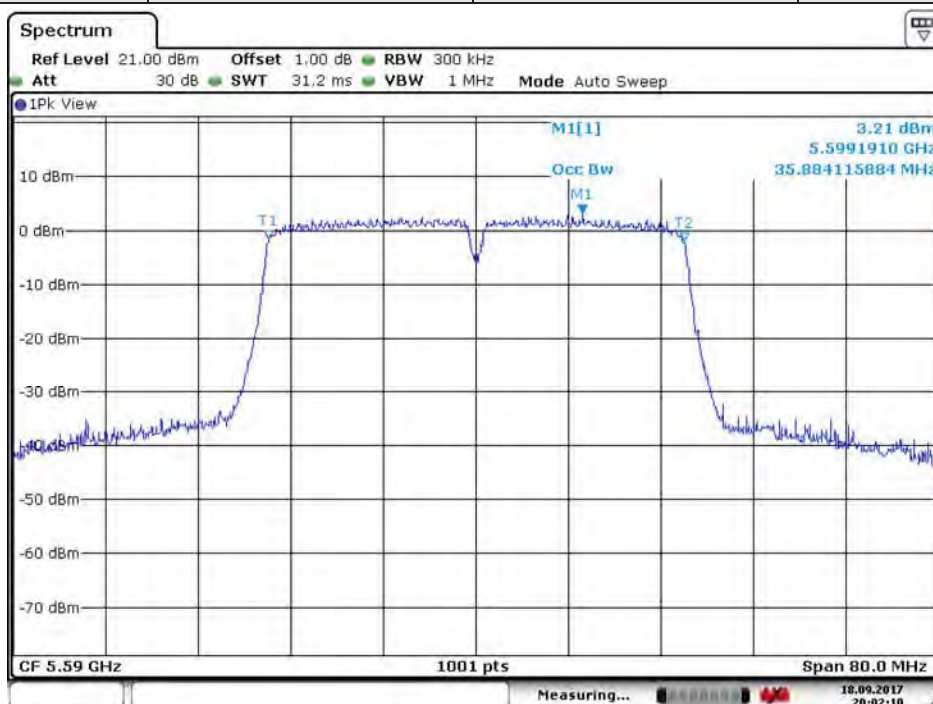
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5510
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Date: 18.SEP.2017 19:59:12

Test mode:	802.11ac(HT40)	Frequency(MHz):	5590
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Date: 18.SEP.2017 20:02:11



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Report No.: SZEM170800926003

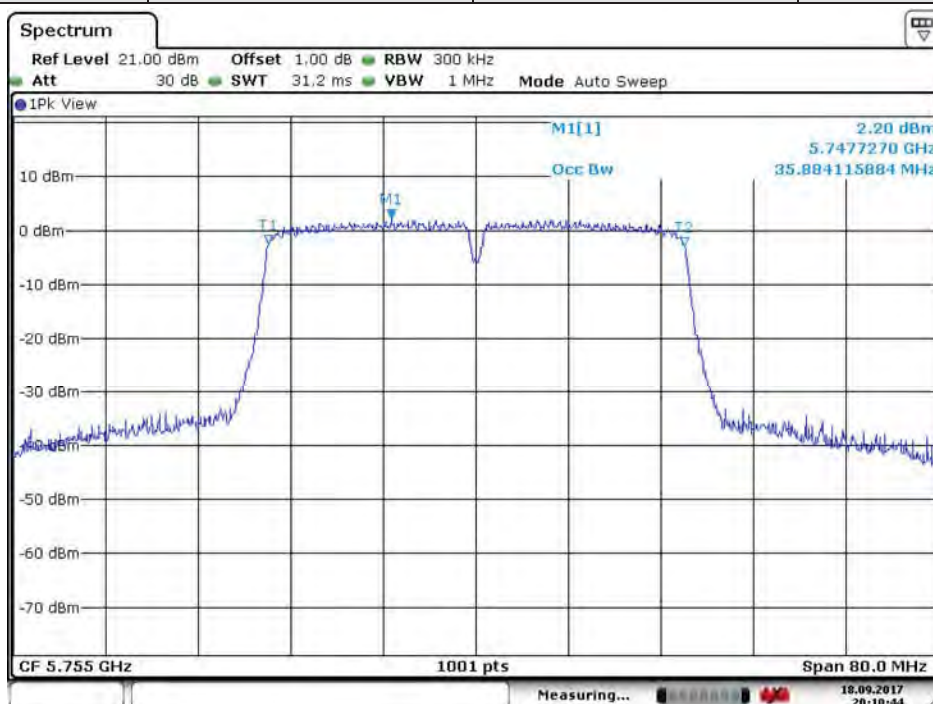
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5670
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Date: 18.SEP.2017 20:08:36

Test mode:	802.11ac(HT40)	Frequency(MHz):	5755
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Date: 18.SEP.2017 20:10:44

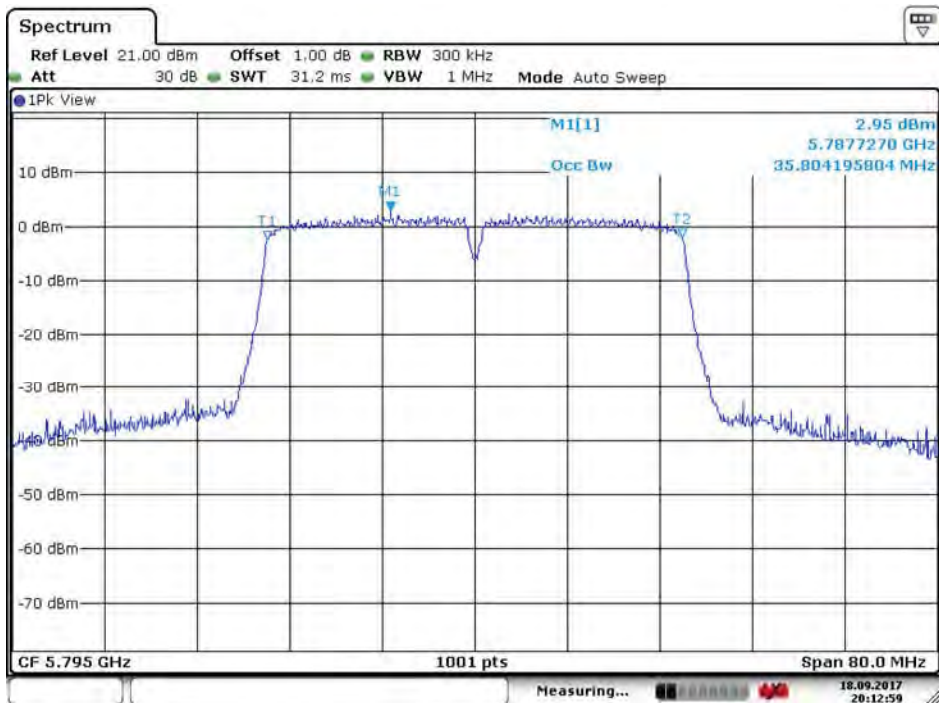


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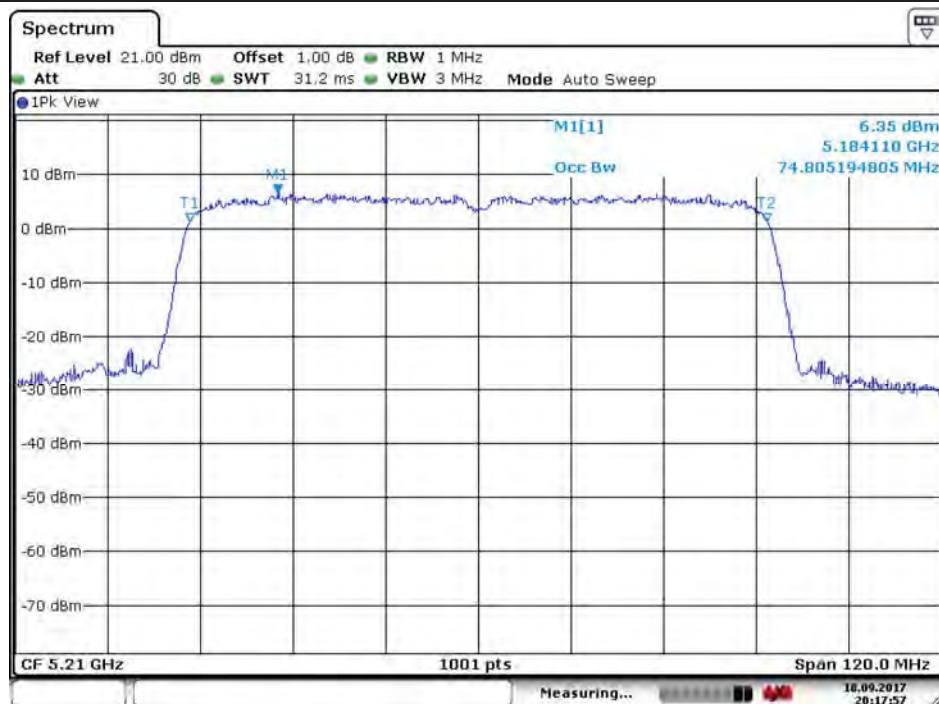
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5795
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Date: 18.SEP.2017 20:13:00

Test mode:	802.11ac(HT80)	Frequency(MHz):	5210
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Date: 18.SEP.2017 20:17:58



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Test mode:	802.11ac(HT80)	Frequency(MHz):	5290
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Date: 18.SEP.2017 20:19:10

Test mode:	802.11ac(HT80)	Frequency(MHz):	5530
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Date: 18.SEP.2017 20:20:32



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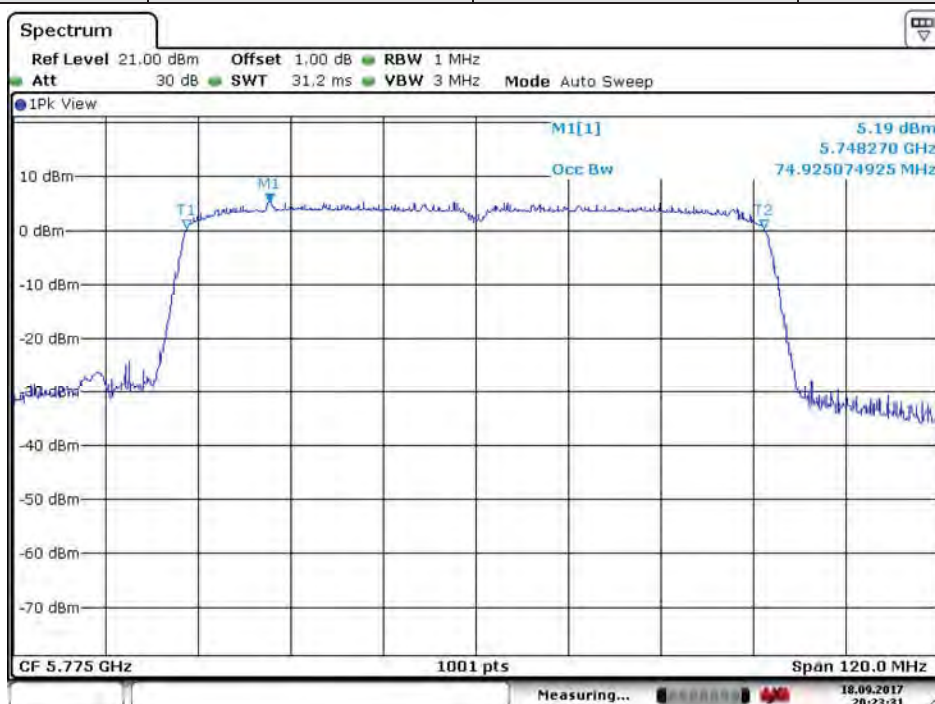
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Test mode:	802.11ac(HT80)	Frequency(MHz):	5610
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Date: 18.SEP.2017 20:22:04

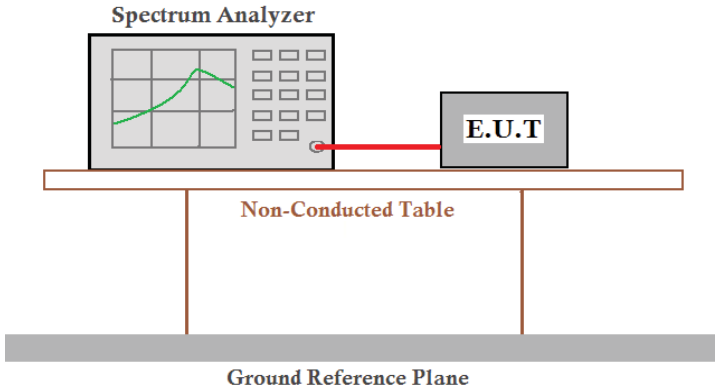
Test mode:	802.11ac(HT80)	Frequency(MHz):	5775
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Date: 18.SEP.2017 20:23:31



6.5 6dB Occupy 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 least 500kHz
Test Results:	Pass	

Measurement Data:

802.11a mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit	Result
5745	16.38	≥500	Pass
5785	16.38	≥500	Pass
5825	16.38	≥500	Pass
802.11n(HT20) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit	Result
5745	17.46	≥500	Pass
5785	17.62	≥500	Pass
5825	17.46	≥500	Pass

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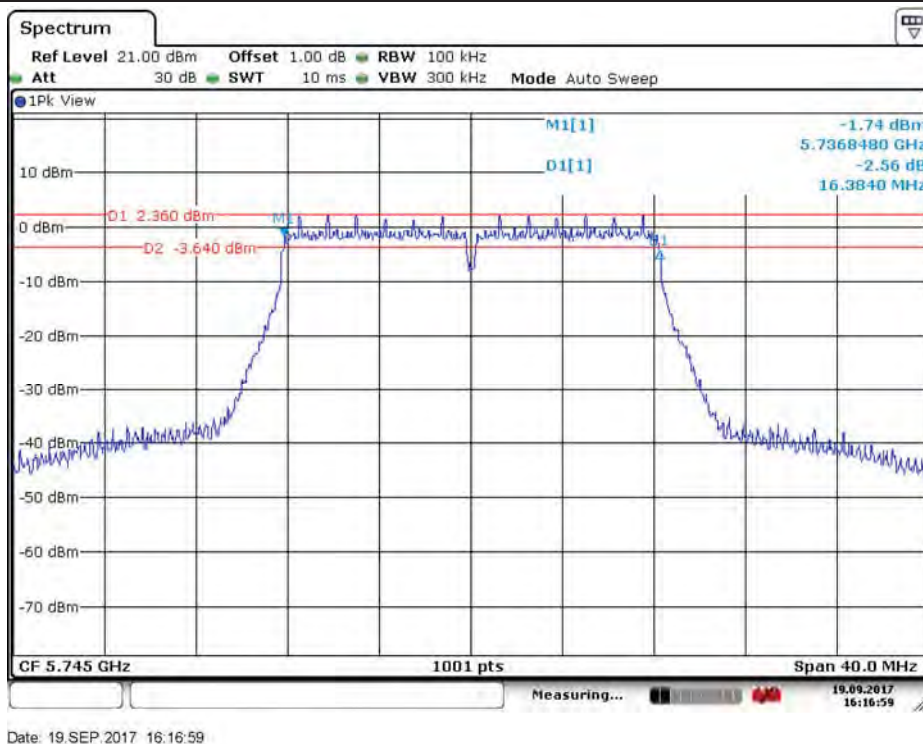
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802.11ac(HT20) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit	Result
5745	17.62	≥500	Pass
5785	17.62	≥500	Pass
5825	17.62	≥500	Pass
802.11n(HT40) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit	Result
5755	35.72	≥500	Pass
5795	35.64	≥500	Pass
802.11ac(HT40) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit	Result
5755	35.80	≥500	Pass
5795	35.64	≥500	Pass
802.11ac(HT80) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit	Result
5775	75.16	≥500	Pass

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5745
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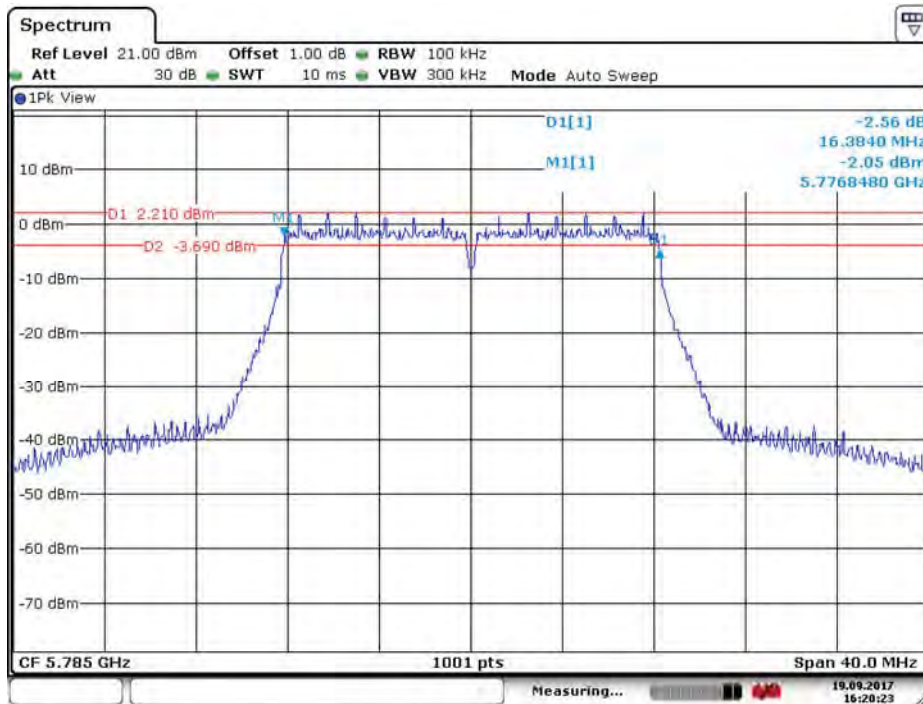


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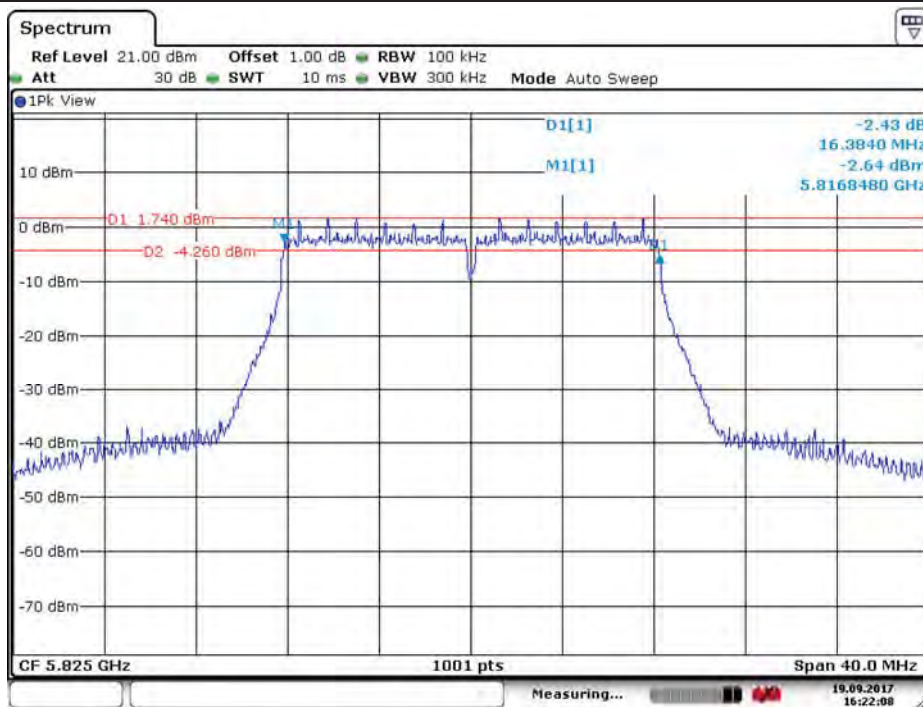
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Test mode:	802.11a	Frequency(MHz):	5785
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Date: 19.SEP.2017 16:20:23

Test mode:	802.11a	Frequency(MHz):	5825
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Date: 19.SEP.2017 16:22:08

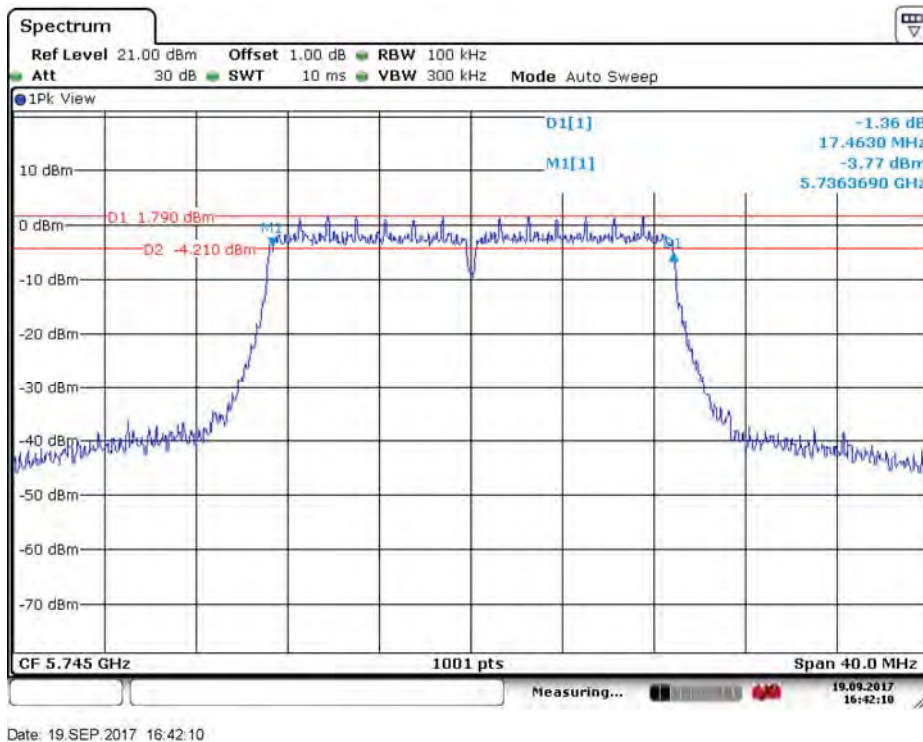


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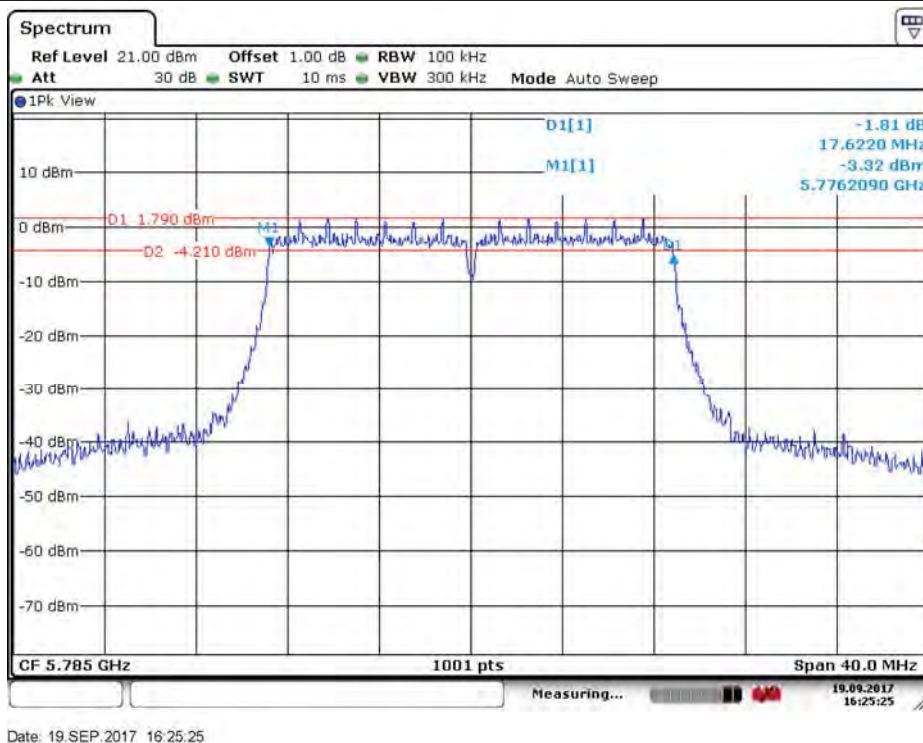
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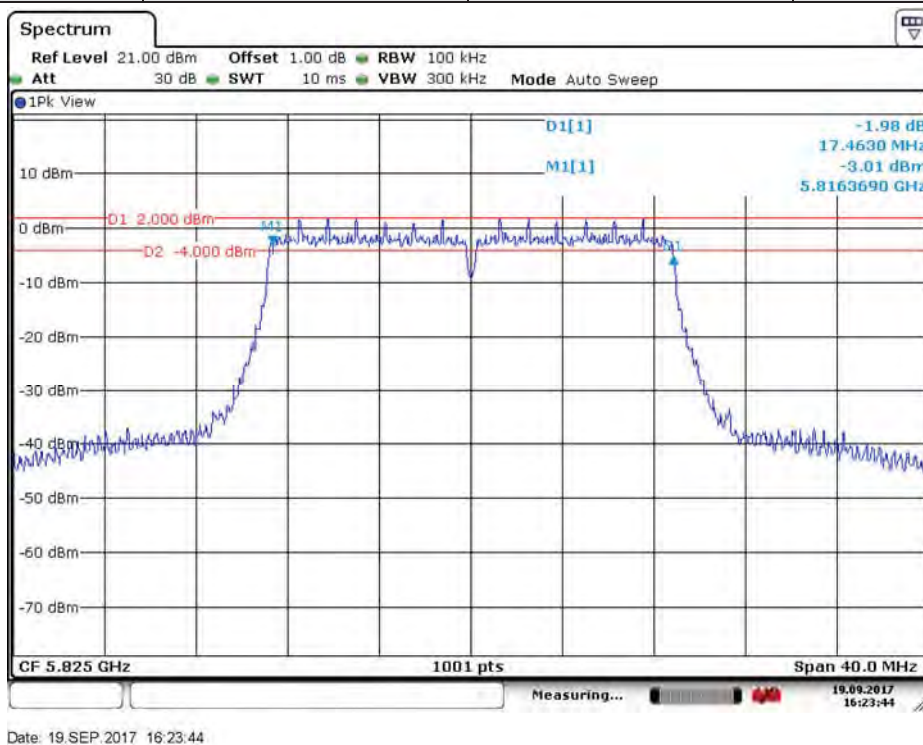
Test mode:	802.11 n(HT20)	Frequency(MHz):	5745
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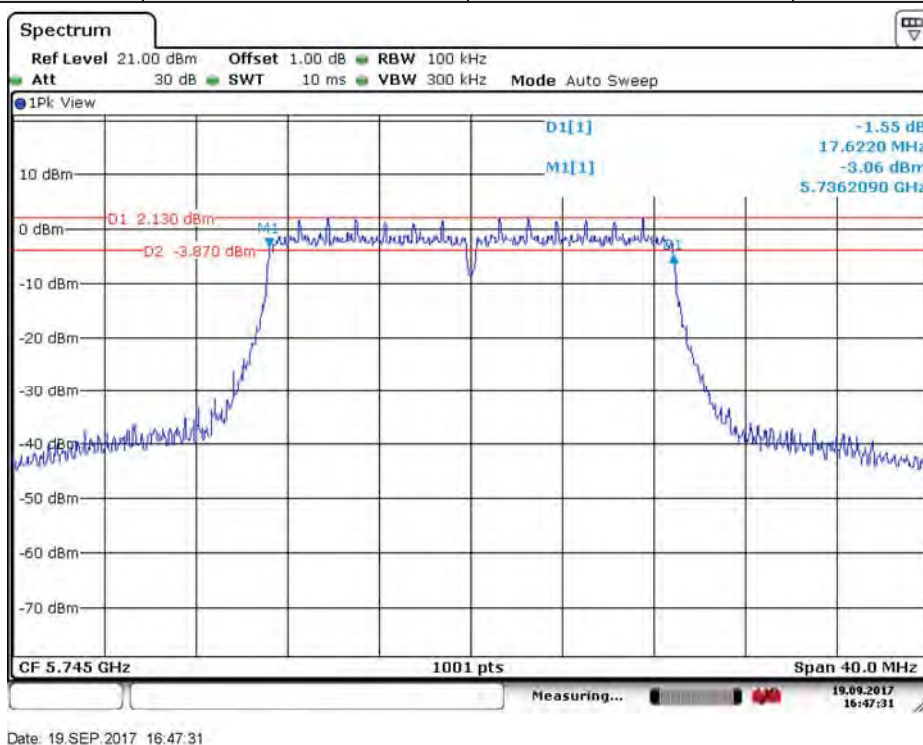
Test mode:	802.11 n(HT20)	Frequency(MHz):	5785
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Test mode:	802.11 n(HT20)	Frequency(MHz):	5825
------------	----------------	-----------------	------



Test mode:	802.11ac(HT20)	Frequency(MHz):	5745
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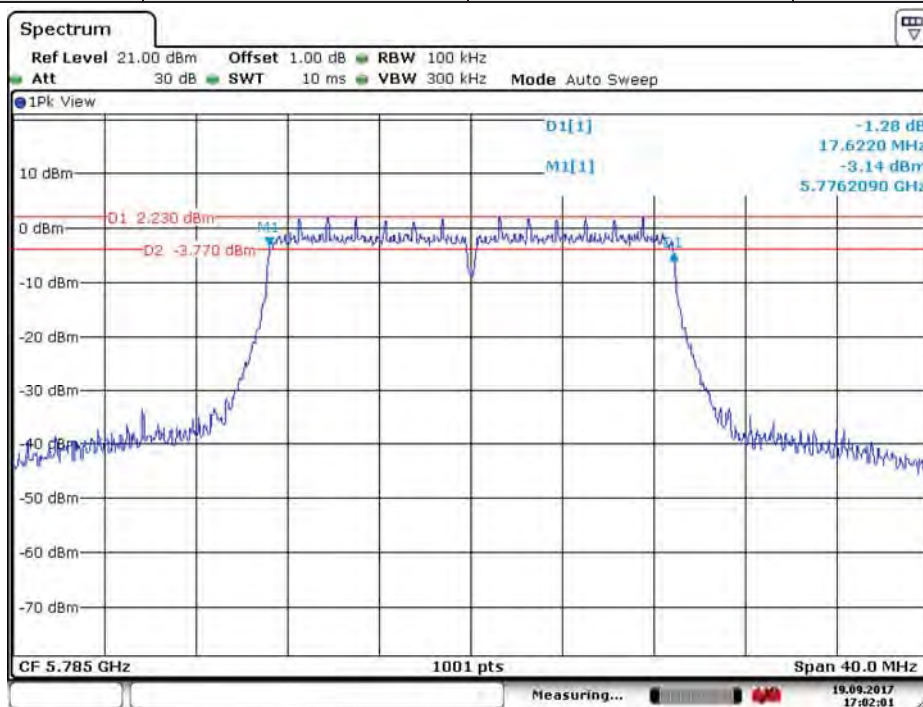


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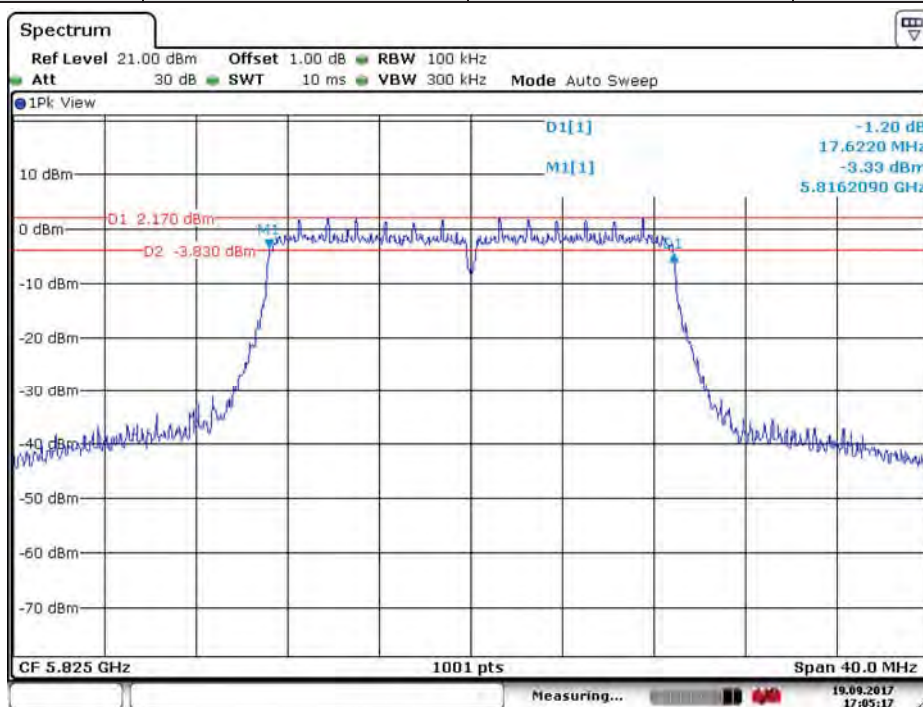
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5785
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Date: 19 SEP. 2017 17:02:02

Test mode:	802.11ac(HT20)	Frequency(MHz):	5825
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Date: 19 SEP. 2017 17:05:17

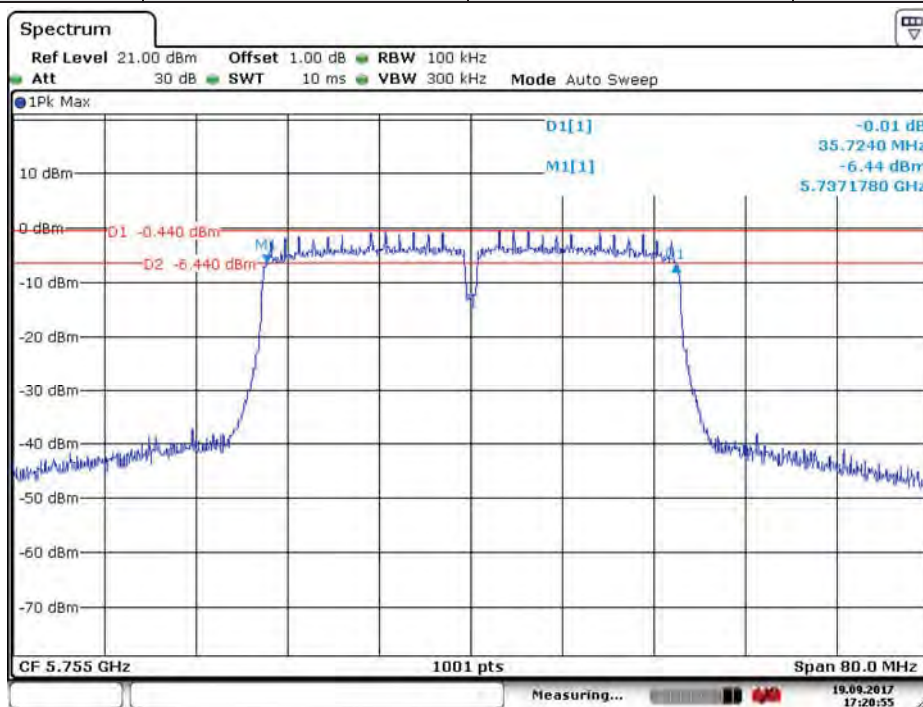


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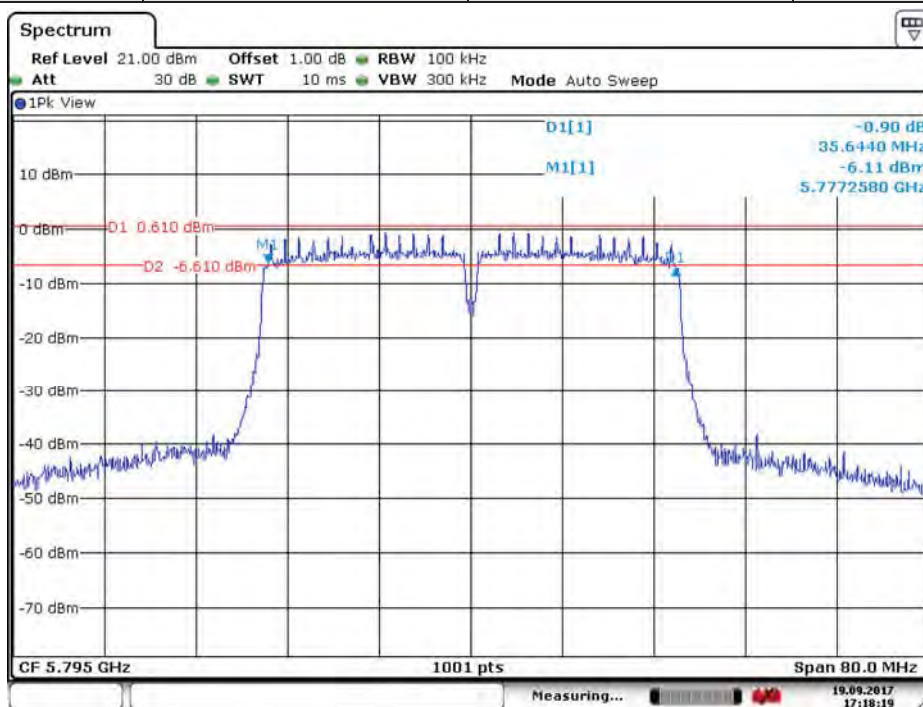
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Test mode:	802.11 n(HT40)	Frequency(MHz):	5755
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Date: 19.SEP.2017 17:20:55

Test mode:	802.11 n(HT40)	Frequency(MHz):	5795
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Date: 19.SEP.2017 17:18:19

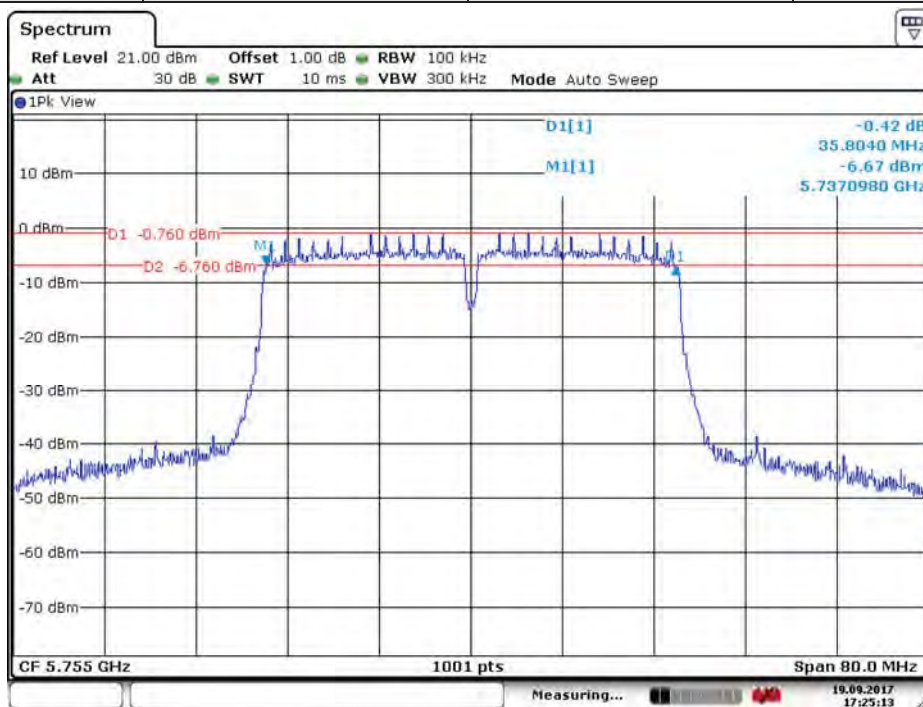


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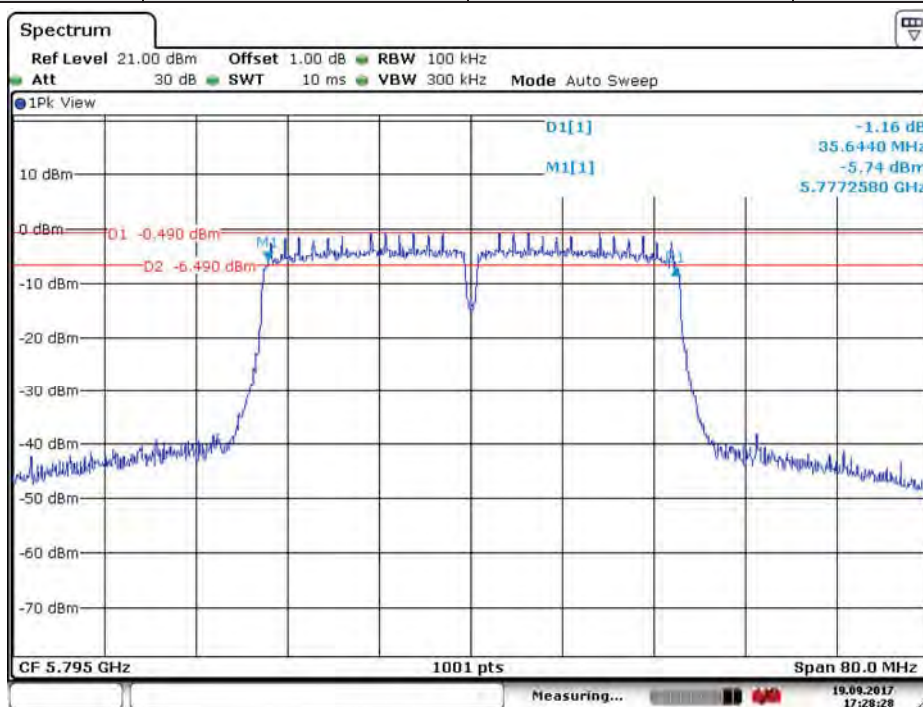
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Test mode:	802.11ac(HT40)	Frequency(MHz):	5755
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Date: 19.SEP.2017 17:25:14

Test mode:	802.11ac(HT40)	Frequency(MHz):	5795
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Date: 19.SEP.2017 17:28:28

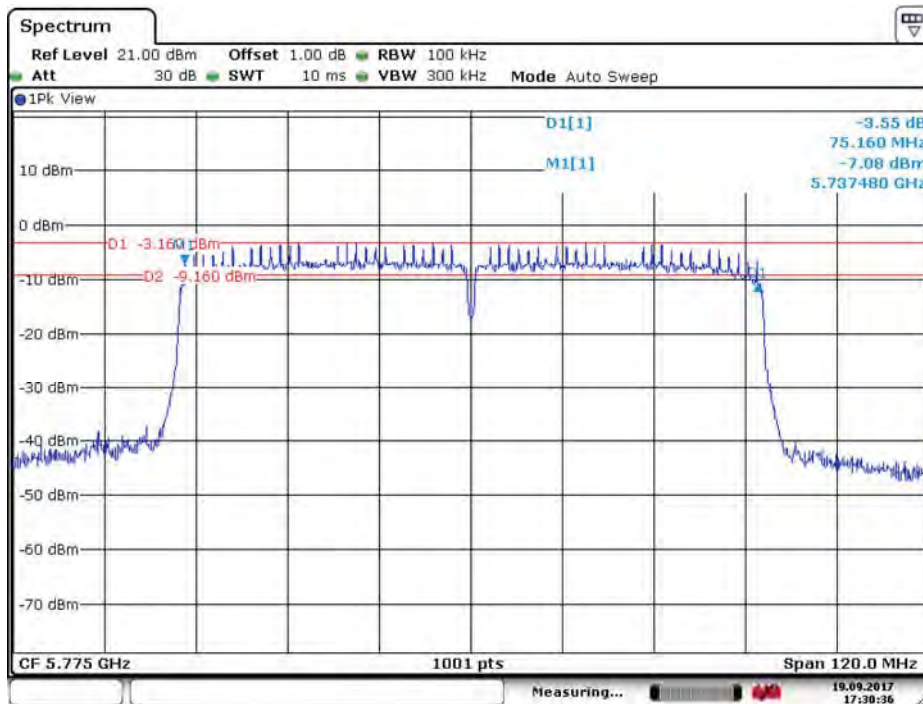


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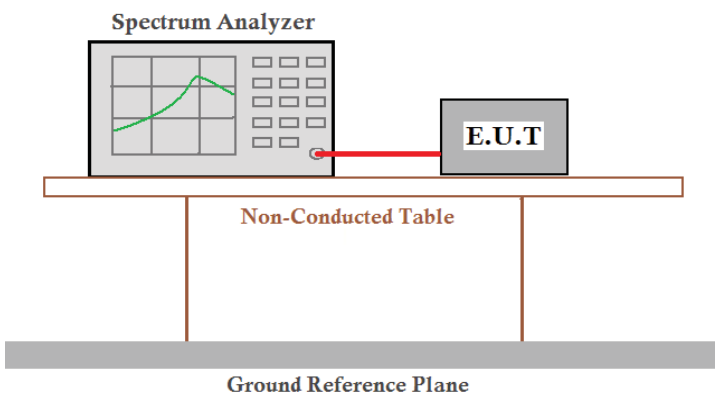
Test mode:	802.11ac(HT80)	Frequency(MHz):	5775
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Date: 19.SEP.2017 17:30:36



6.6 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:	 Remark:	
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
Test Results:	Pass	



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Measurement Data:

802.11a mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5180	6.35	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5220	5.08	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5240	5.27	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5260	5.14	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5300	5.64	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5320	5.47	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5500	5.17	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5600	5.41	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5700	5.19	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5745	3.67	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5785	3.43	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5825	3.77	$\leq 30\text{dBm}/500\text{kHz}$	Pass

802.11n(HT20) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5180	7.07	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5220	6.99	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5240	7.04	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5260	7.15	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5300	7.23	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5320	6.69	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5500	5.21	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5600	5.08	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5700	5.73	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5745	4.11	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5785	3.97	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5825	3.91	$\leq 30\text{dBm}/500\text{kHz}$	Pass



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802.11ac(HT20) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5180	5.18	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5220	5.38	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5240	5.60	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5260	5.19	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5300	5.60	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5320	5.71	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5500	5.47	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5600	5.30	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5700	5.73	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5745	3.83	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5785	3.78	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5825	4.09	$\leq 30\text{dBm}/500\text{kHz}$	Pass

802.11n(HT40) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5190	2.38	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5230	2.11	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5270	2.66	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5310	2.50	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5510	2.00	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5590	3.20	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5670	2.43	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5755	1.39	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5795	0.94	$\leq 30\text{dBm}/500\text{kHz}$	Pass

802.11ac(HT40) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5190	2.11	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5230	2.75	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5270	2.15	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5310	2.36	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5510	2.22	$\leq 11\text{dBm}/1\text{MHz}$	Pass

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5590	2.63	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5670	1.93	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5755	1.38	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5795	1.38	$\leq 30\text{dBm}/500\text{kHz}$	Pass

802.11ac(HT80) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5210	-0.21	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5290	-.044	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5530	-0.13	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5610	-0.12	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5775	-1.62	$\leq 30\text{dBm}/500\text{kHz}$	Pass

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Date: 20.SEP.2017 10:31:33



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Test mode:	802.11a	Frequency(MHz):	5220
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Date: 20.SEP.2017 10:34:59

Test mode:	802.11a	Frequency(MHz):	5240
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Date: 20.SEP.2017 10:36:41



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Test mode:	802.11a	Frequency(MHz):	5260
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Date: 20.SEP.2017 10:37:46

Test mode:	802.11a	Frequency(MHz):	5300
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Date: 20.SEP.2017 10:38:33



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Test mode:	802.11a	Frequency(MHz):	5320
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Date: 20.SEP.2017 10:39:32

Test mode:	802.11a	Frequency(MHz):	5500
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Date: 20.SEP.2017 10:40:48



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Test mode:	802.11a	Frequency(MHz):	5600
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Date: 20.SEP.2017 10:41:45

Test mode:	802.11a	Frequency(MHz):	5700
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Date: 20.SEP.2017 10:42:32

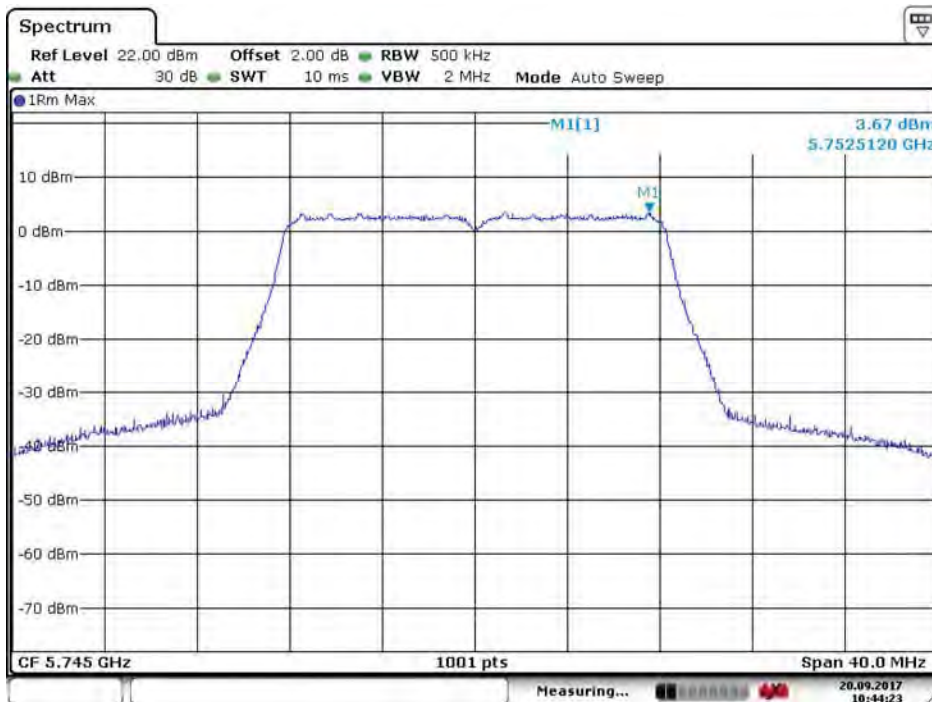


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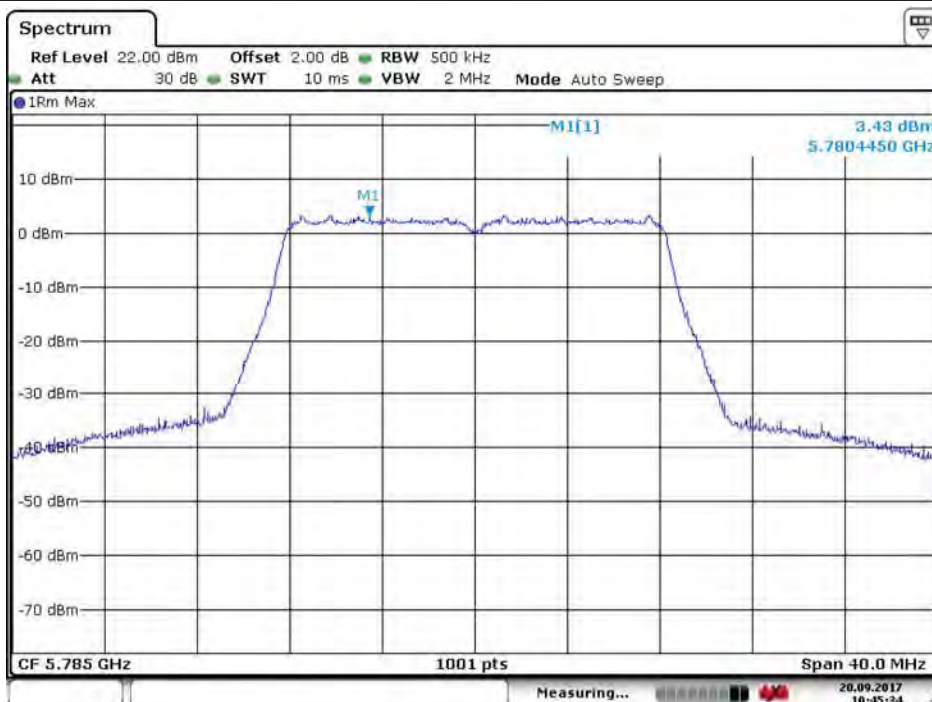
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Test mode:	802.11a	Frequency(MHz):	5745
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Date: 20.SEP.2017 10:44:23

Test mode:	802.11a	Frequency(MHz):	5785
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Date: 20.SEP.2017 10:45:34

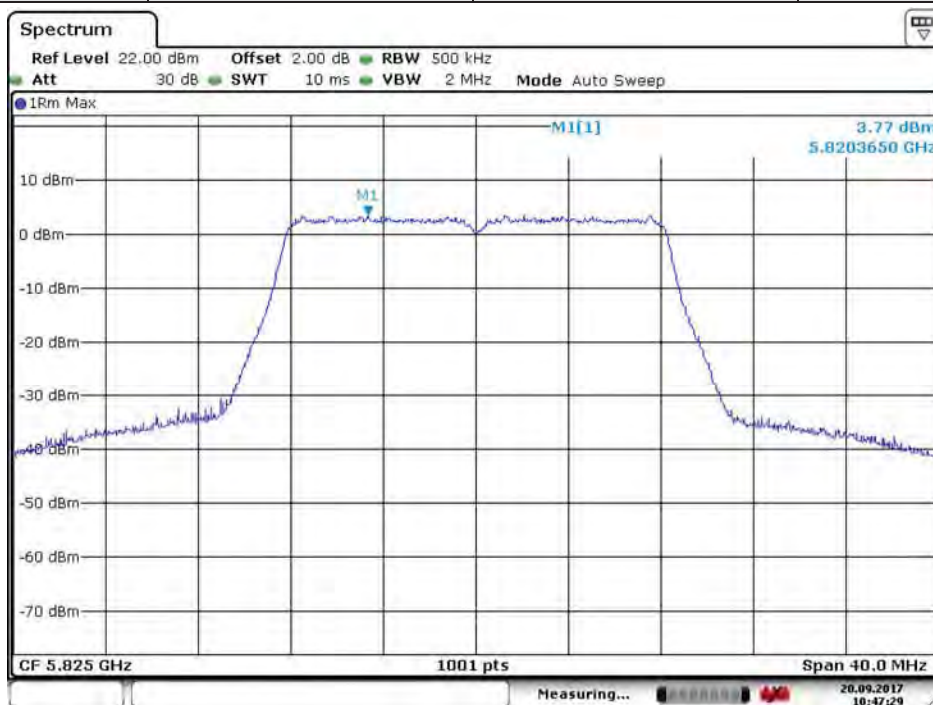


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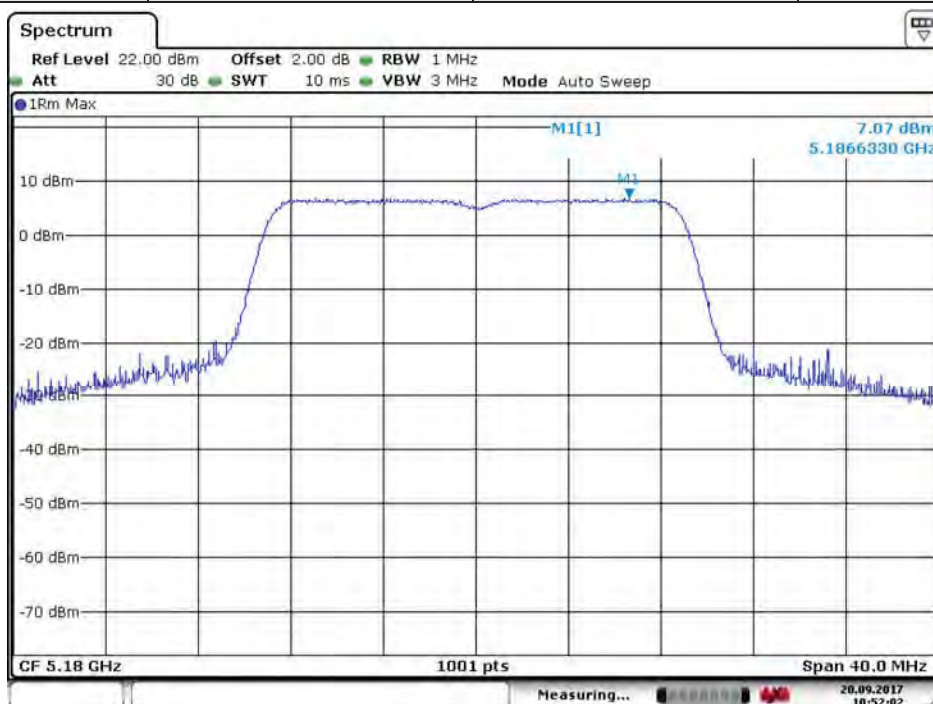
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Test mode:	802.11a	Frequency(MHz):	5825
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Date: 20.SEP.2017 10:47:29

Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Date: 20.SEP.2017 10:52:03

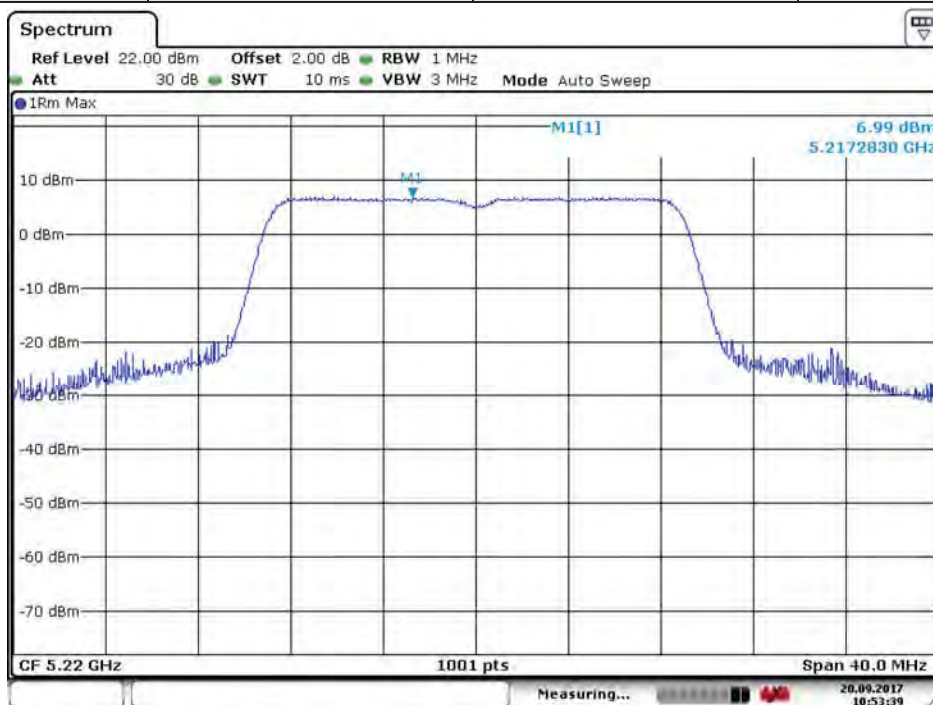


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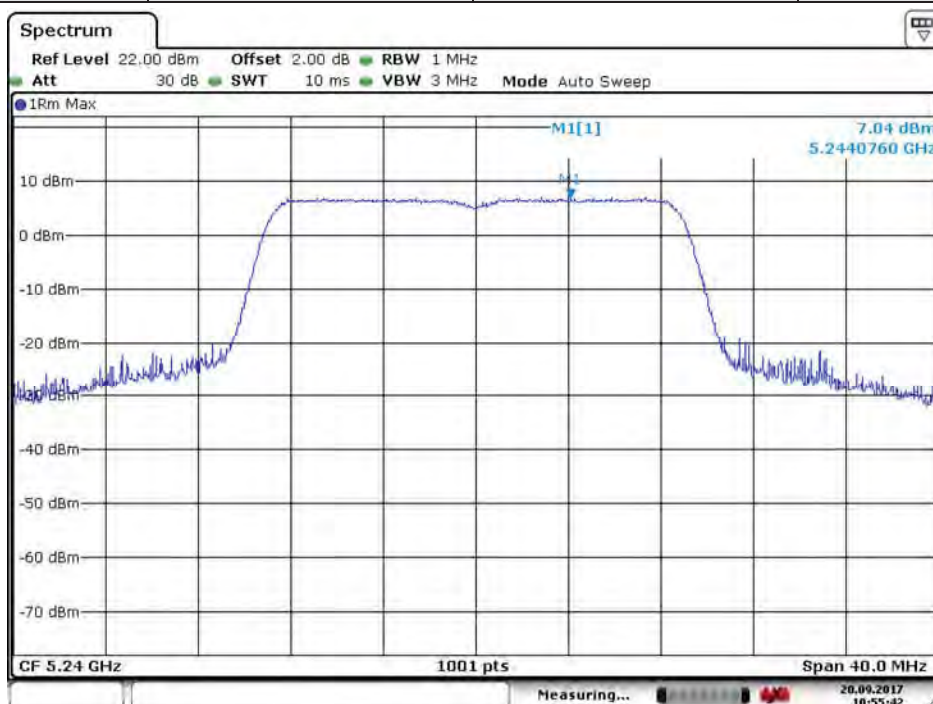
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Test mode:	802.11n(HT20)	Frequency(MHz):	5220
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Date: 20.SEP.2017 10:53:40

Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Date: 20.SEP.2017 10:55:43

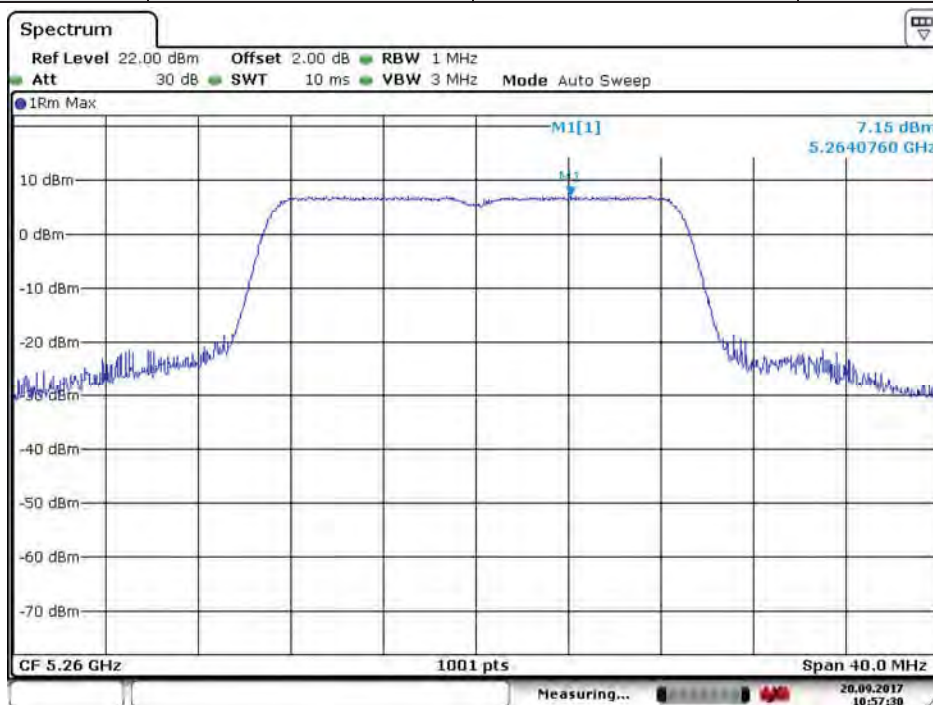


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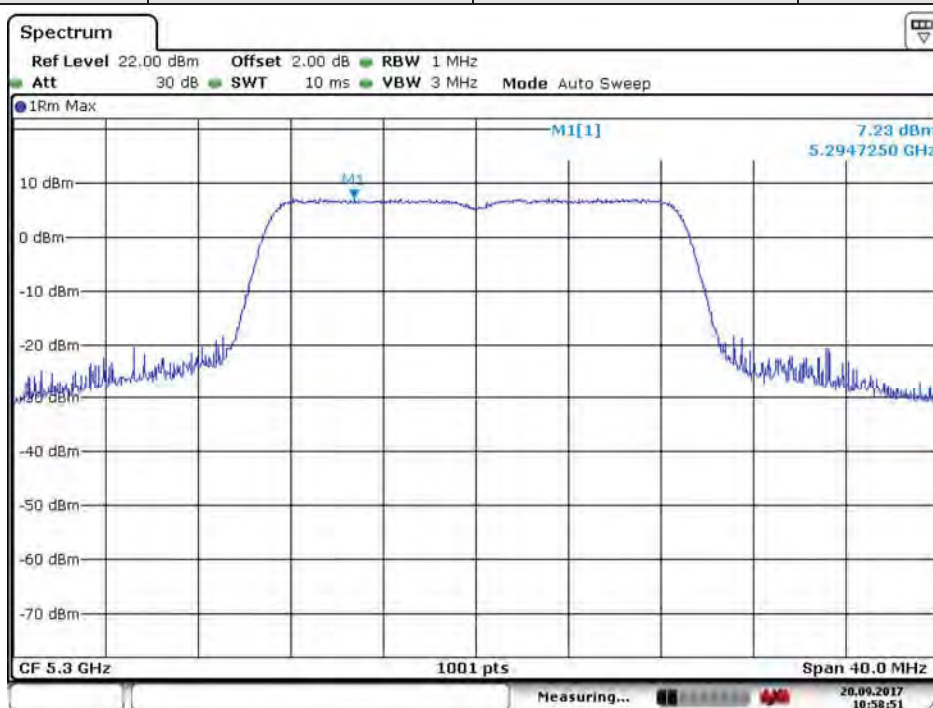
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Test mode:	802.11n(HT20)	Frequency(MHz):	5260
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Date: 20.SEP.2017 10:57:30

Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Date: 20.SEP.2017 10:58:51

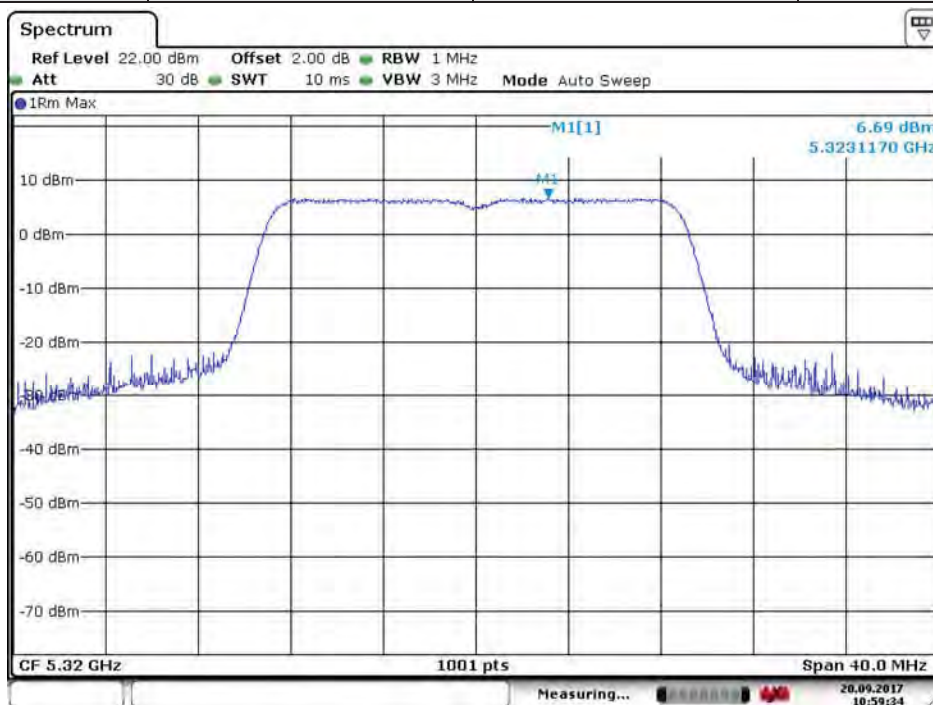


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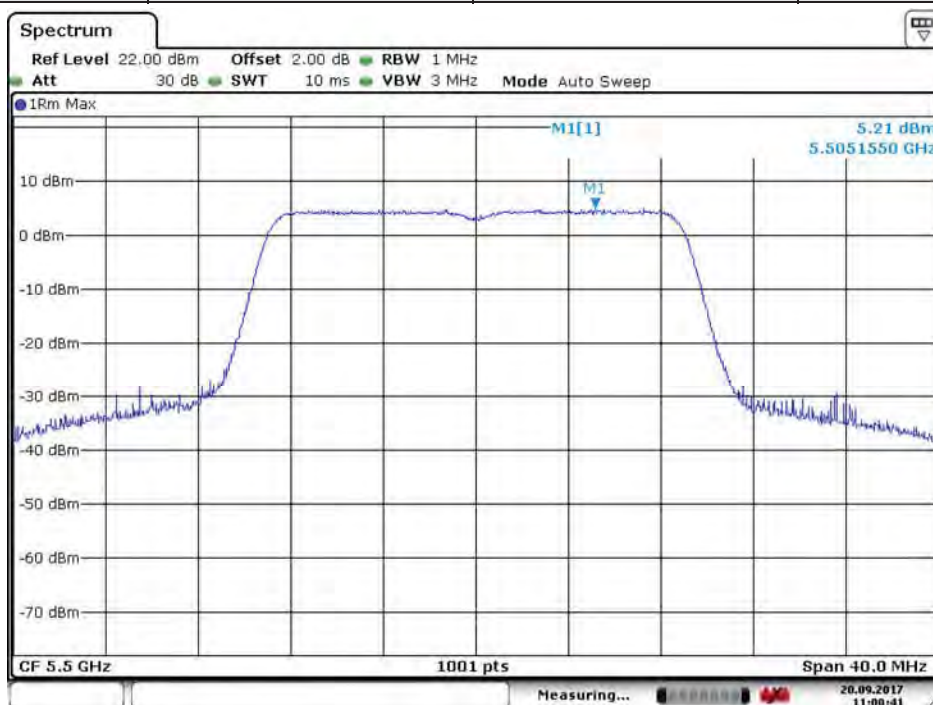
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Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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Date: 20.SEP.2017 10:59:35

Test mode:	802.11n(HT20)	Frequency(MHz):	5500
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Date: 20.SEP.2017 11:00:42



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

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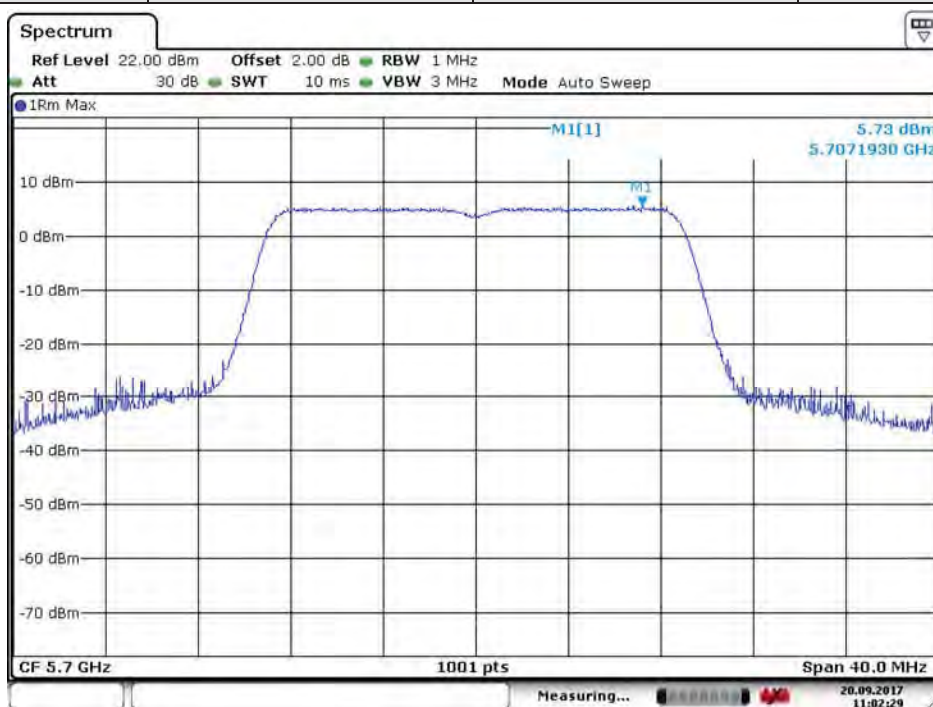
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Test mode:	802.11n(HT20)	Frequency(MHz):	5600
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Date: 20.SEP.2017 11:01:20

Test mode:	802.11n(HT20)	Frequency(MHz):	5700
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Date: 20.SEP.2017 11:02:29

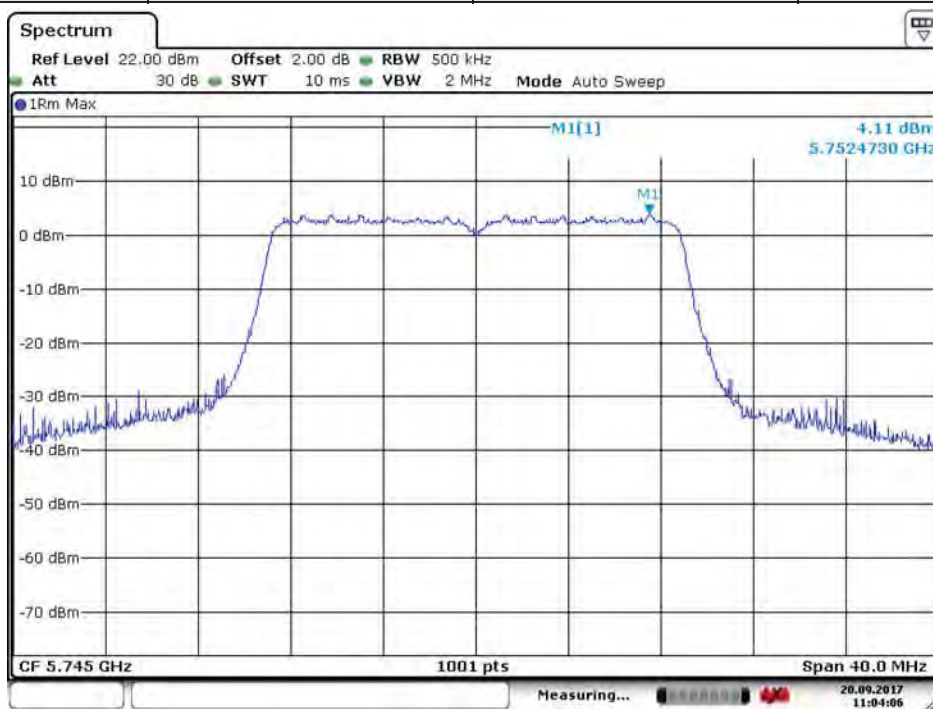


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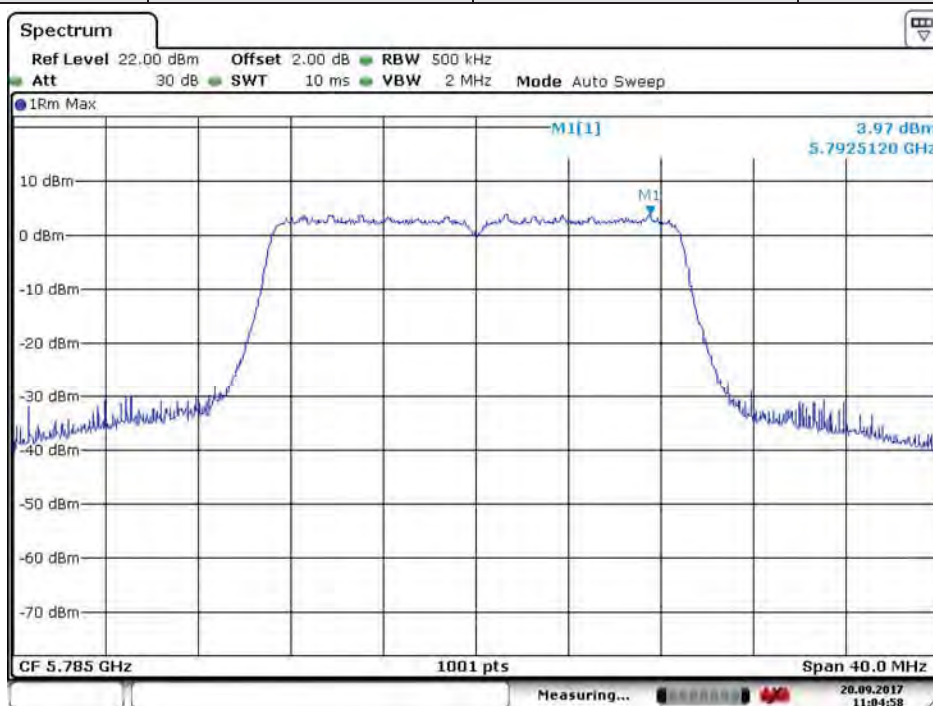
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Test mode:	802.11 n(HT20)	Frequency(MHz):	5745
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Date: 20.SEP.2017 11:04:07

Test mode:	802.11 n(HT20)	Frequency(MHz):	5785
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Date: 20.SEP.2017 11:04:58

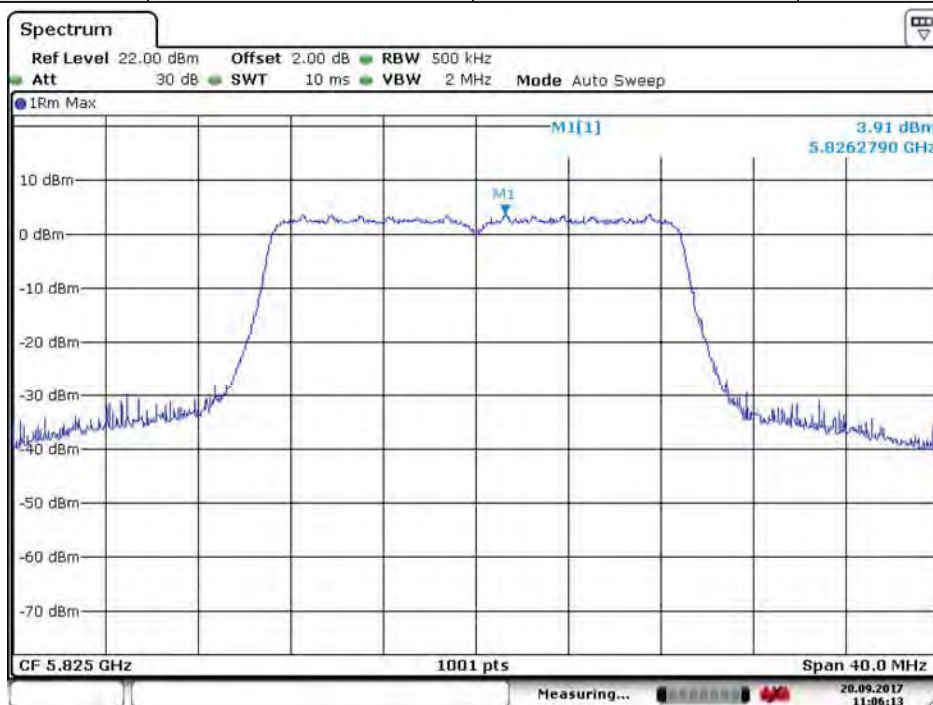


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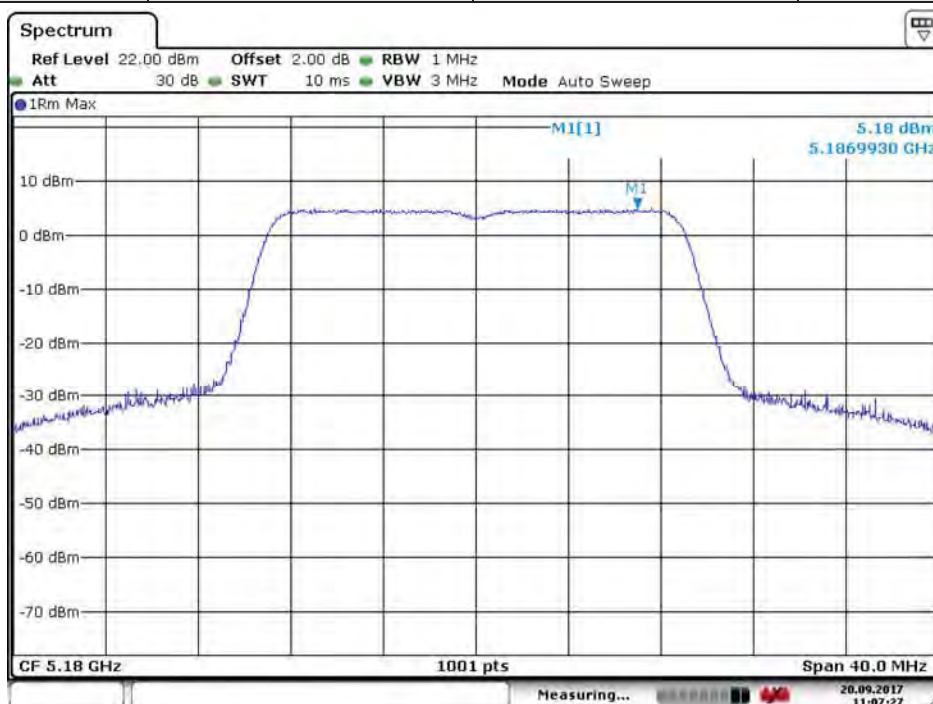
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Test mode:	802.11 n(HT20)	Frequency(MHz):	5825
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Date: 20.SEP.2017 11:06:13

Test mode:	802.11ac(HT20)	Frequency(MHz):	5180
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Date: 20.SEP.2017 11:07:27



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Test mode:	802.11ac(HT20)	Frequency(MHz):	5220
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Date: 20.SEP.2017 11:08:18

Test mode:	802.11ac(HT20)	Frequency(MHz):	5240
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Date: 20.SEP.2017 11:09:47



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

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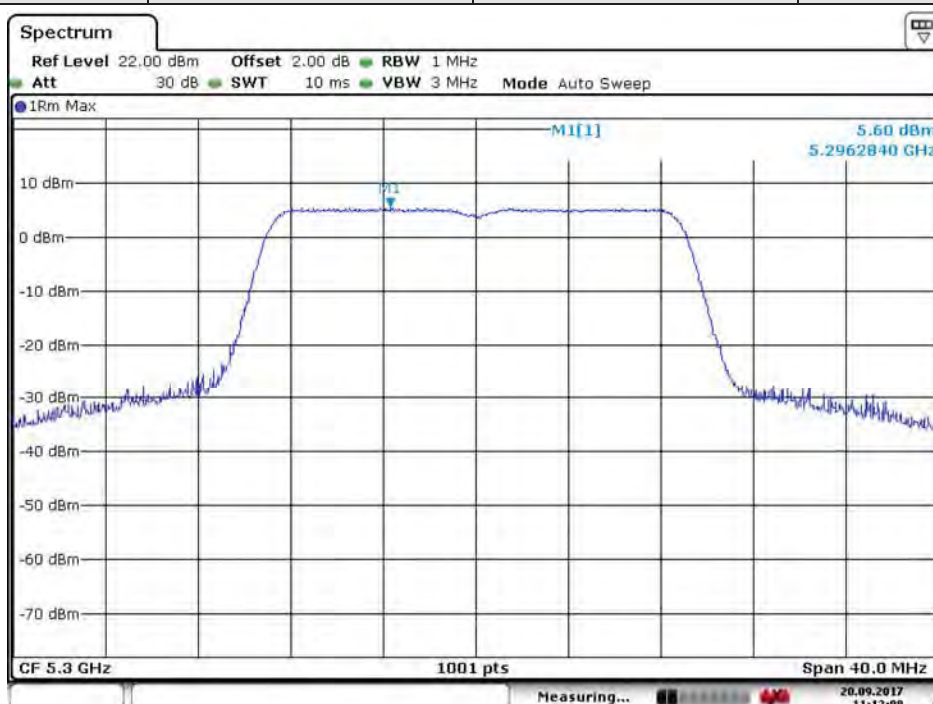
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5260
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Date: 20.SEP.2017 11:10:50

Test mode:	802.11ac(HT20)	Frequency(MHz):	5300
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Date: 20.SEP.2017 11:12:08

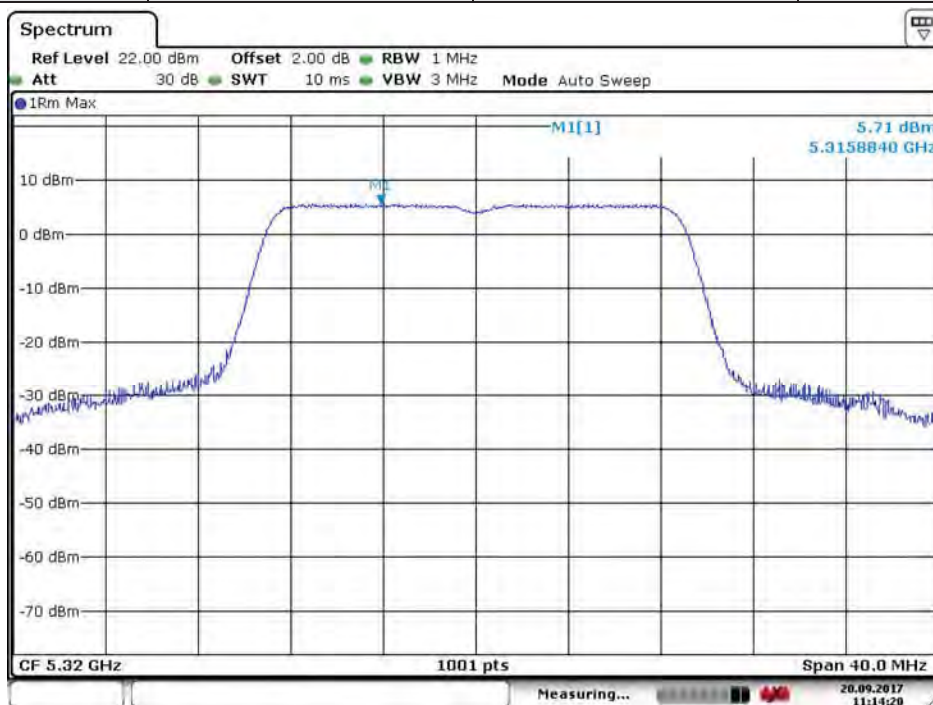


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Test mode:	802.11ac(HT20)	Frequency(MHz):	5320
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Date: 20.SEP.2017 11:14:20

Test mode:	802.11ac(HT20)	Frequency(MHz):	5500
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Date: 20.SEP.2017 11:16:06



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Shenzhen Branch

Report No.: SZEM170800926003

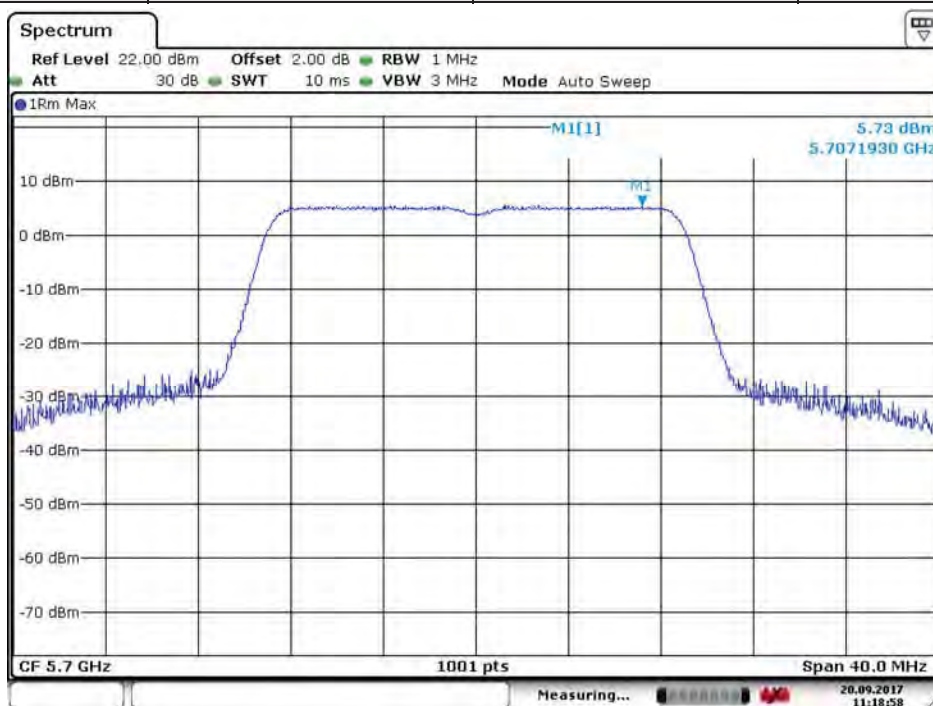
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5600
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Date: 20.SEP.2017 11:16:31

Test mode:	802.11ac(HT20)	Frequency(MHz):	5700
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Date: 20.SEP.2017 11:18:58

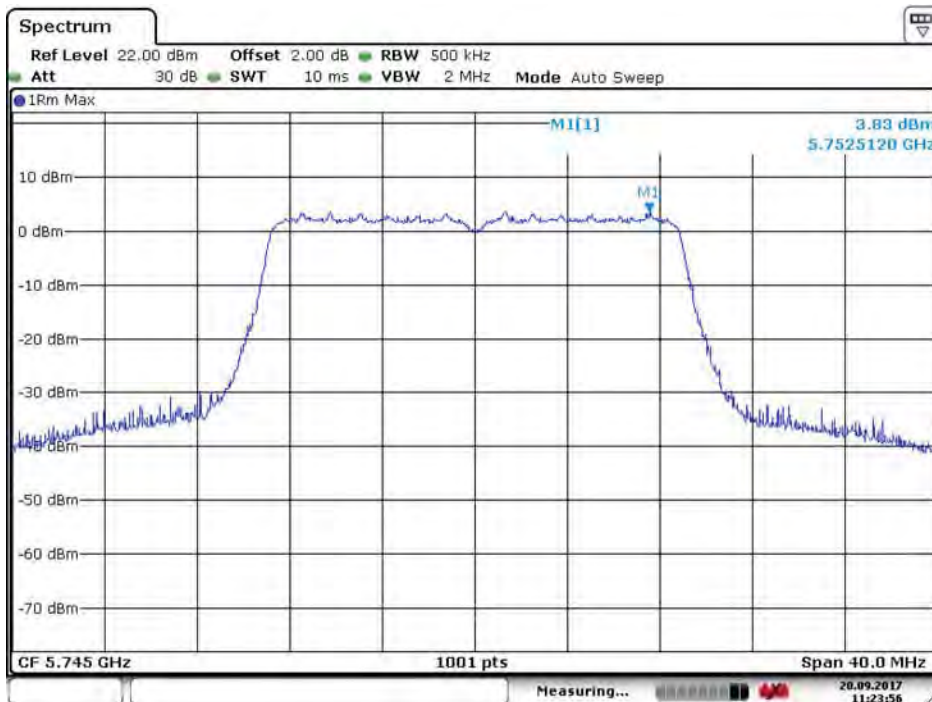


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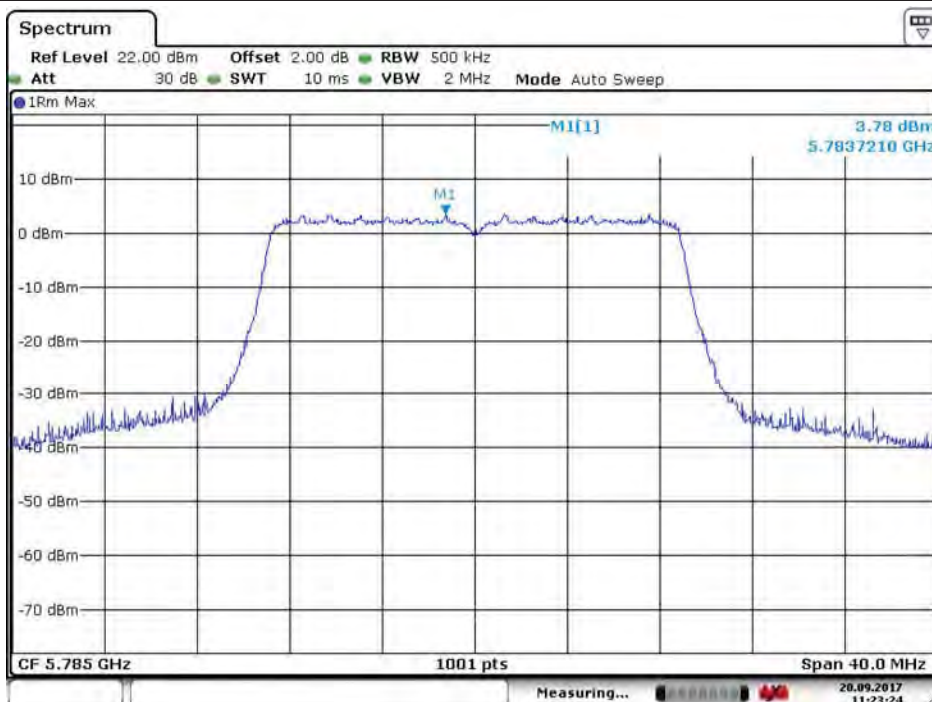
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5745
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Date: 20.SEP.2017 11:23:56

Test mode:	802.11ac(HT20)	Frequency(MHz):	5785
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Date: 20.SEP.2017 11:23:24

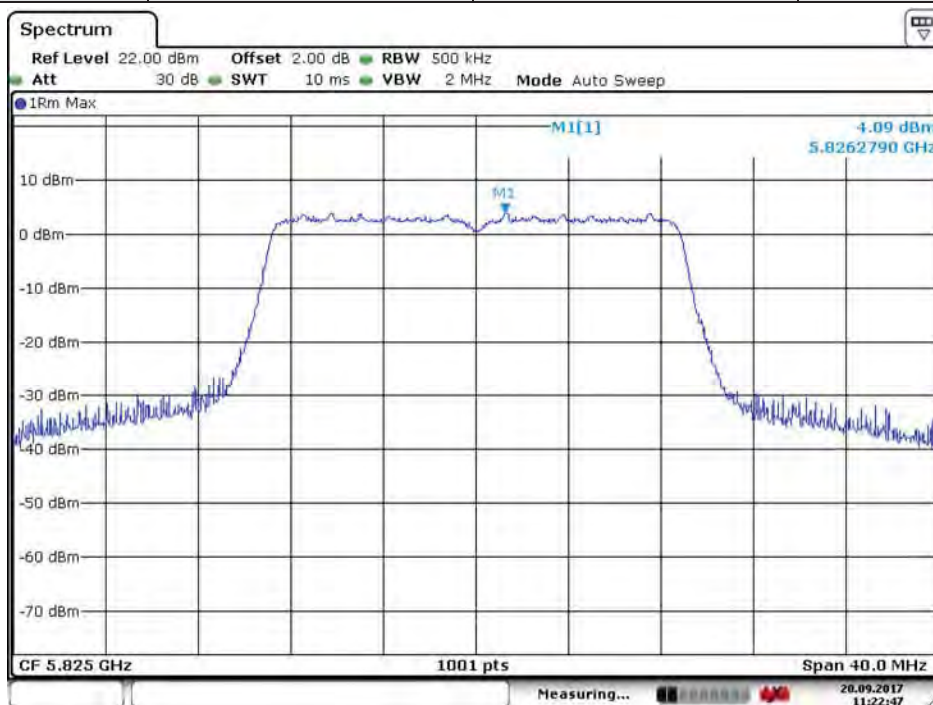


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Report No.: SZEM170800926003

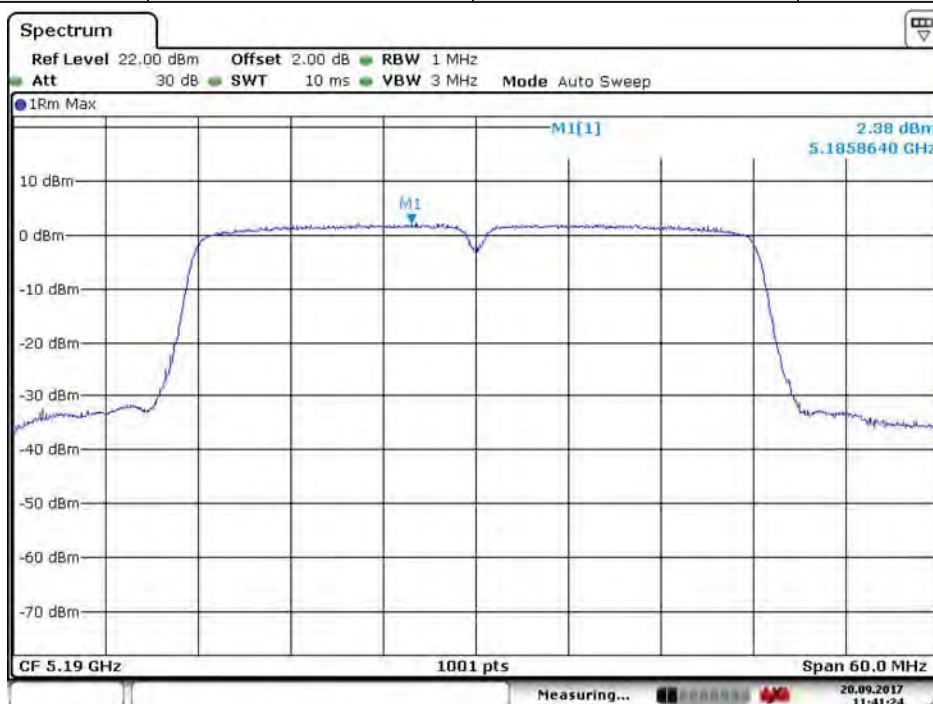
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Test mode:	802.11ac(HT20)	Frequency(MHz):	5825
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Date: 20.SEP.2017 11:22:47

Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Date: 20.SEP.2017 11:41:24



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Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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Date: 20.SEP.2017 11:42:17

Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Date: 20.SEP.2017 11:43:23

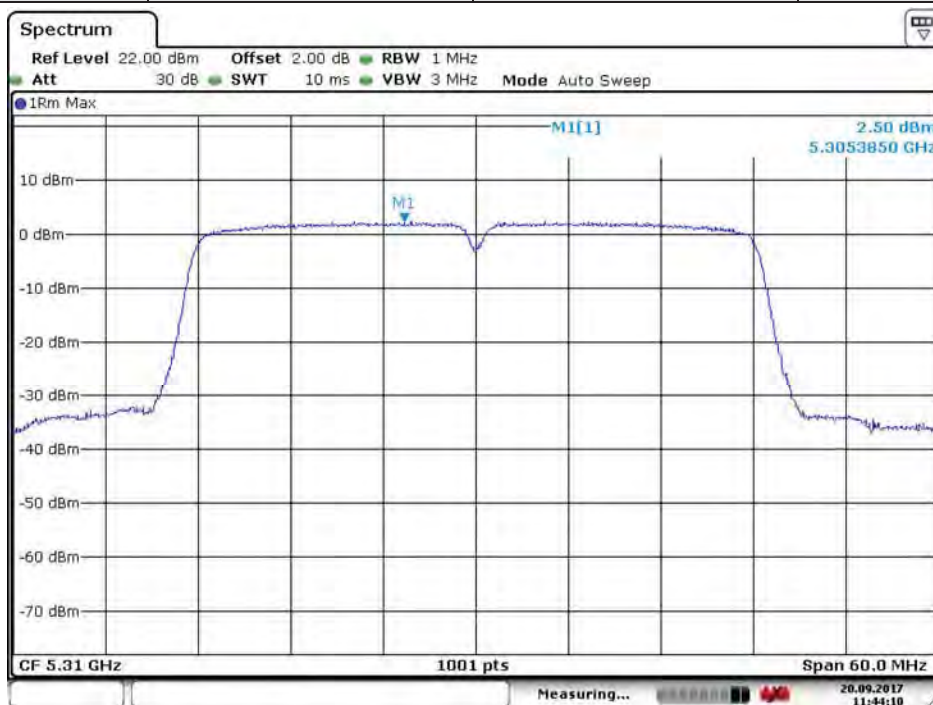


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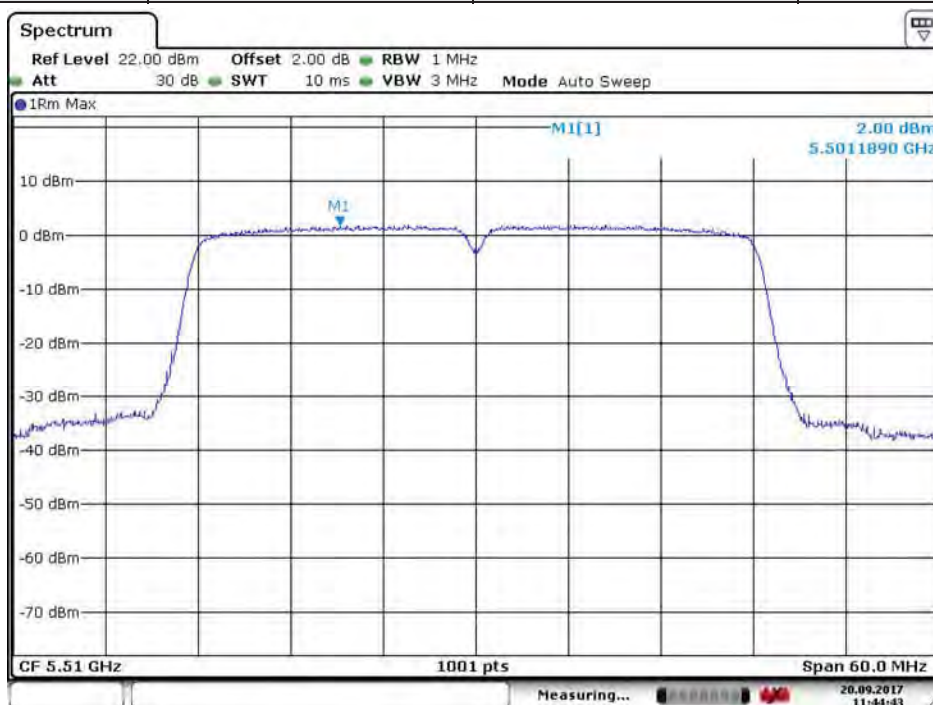
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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Date: 20.SEP.2017 11:44:11

Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Date: 20.SEP.2017 11:44:43

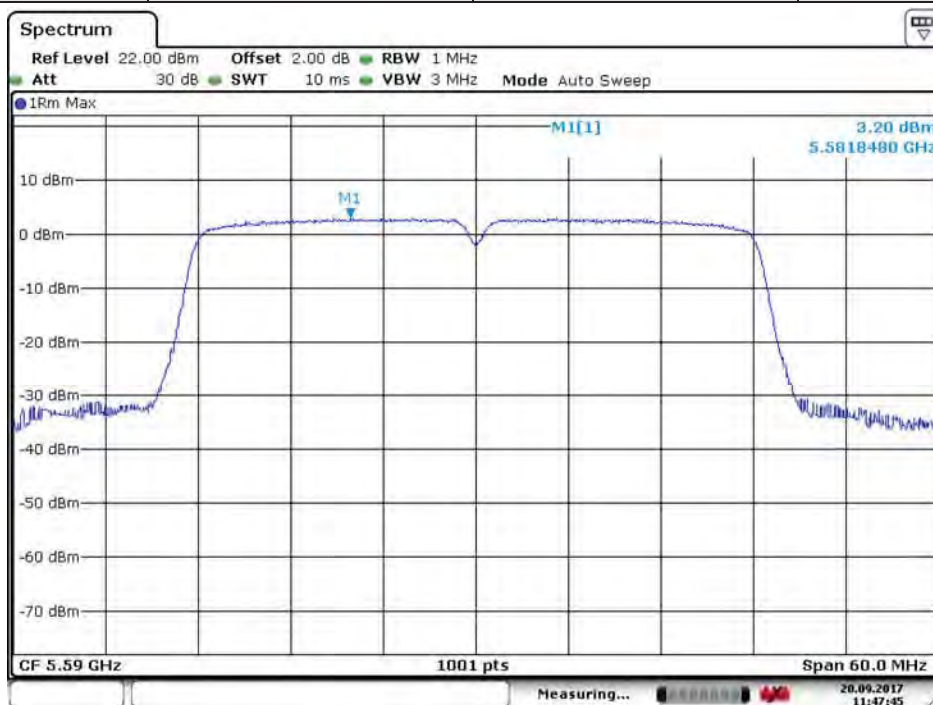


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Report No.: SZEM170800926003

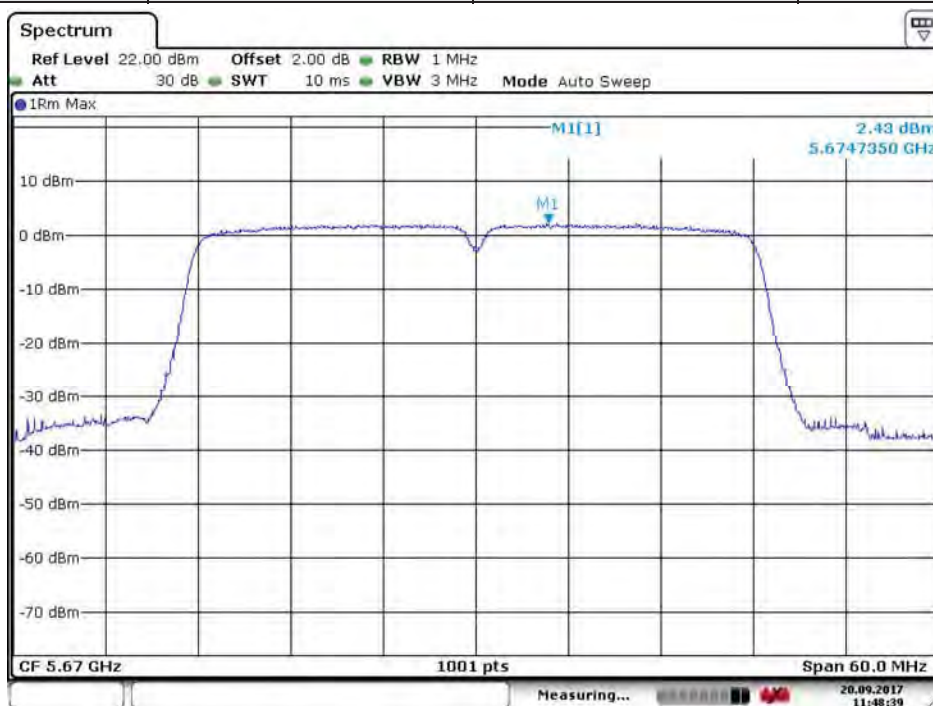
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Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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Date: 20.SEP.2017 11:47:46

Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Date: 20.SEP.2017 11:48:39

