FCC TEST REPORT

Application No:	AR/2020/90010
Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description:	Mobile Phone
Model No.:	M2010J19CG,M2010J19CT
Trade Mark:	POCO
FCC ID:	2AFZZJ19CG
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C 47 CFR FCC Part 15, Subpart E
Test Method:	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 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:	2020/9/29
Date of Test:	2020/9/29 to 2020/10/16
Date of Issue:	2020/10/18
Test Result:	**PASS ***

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

Authorized Signature:

Derek Yang
Wireless Laboratory Manager

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1 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2020/10/18		Original

Authorized for issue by:				
Tested By		Mike Hu **(Mike Hu) /Project Engineer**		
Checked By		David Chen **(David Chen) /Reviewer**		

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2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.4 Clause 4.5	Pass
	5250-5350	15.403(i) 15.407(a)(2)			
	5470-5725	15.403(i) 15.407(a)(2)			
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.		
Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.		Pass
	5250-5350				
	5470-5725				
	5725-5850				
Duty Cycle	5150-5850	--	No limit.		Pass
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.3	
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*lg(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 4.6	
	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 Outside 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 4.7	Pass
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		

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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
	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).		
	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).		
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209		Clause 4.8	Pass
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207		Clause 4.2	Pass
Frequency Stability	5150-5250 5250-5350 5470-5600 5650-5725 5725-5850	15.209		Clause 4.9	Pass
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	Clause 4.10	Pass

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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
			Non-occupancy period: Minimum 30 minutes		

Remark

Item	M2010J19CG	M2010J19CT
LTE Band 41	Support	Not Support

Note: customer declaration, two models are the same,except for model. There are more than one model,each one should be applied throughout the compliance test respectively, However, only the worst case(M2010J19CG) will be recorded in this report.

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3 General Information

3.1 Client Information

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
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Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

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

• VCCI

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

• FCC –Designation Number: CN1178

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

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

• Industry Canada (IC)

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

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3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2010J19CG,M2010J19CT
Trade Mark:	POCO
Hardware Version:	P2
Software Version:	MIUI12
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 5825MHz
Type of Modulation:	OFDM
DFS mode:	☐Master ☐ Slave with radar detection ☒Slave without radar detection
Sample Type:	☒ Portable Device, ☐Module
Antenna Type:	PIFA Antenna
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:	0dBi,
Power Supply	☒ AC/DC Adapter; ☐ 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

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180

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	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
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5500
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5500
	The Highest channel	5580

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	5805
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

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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 -1.0dBi.	

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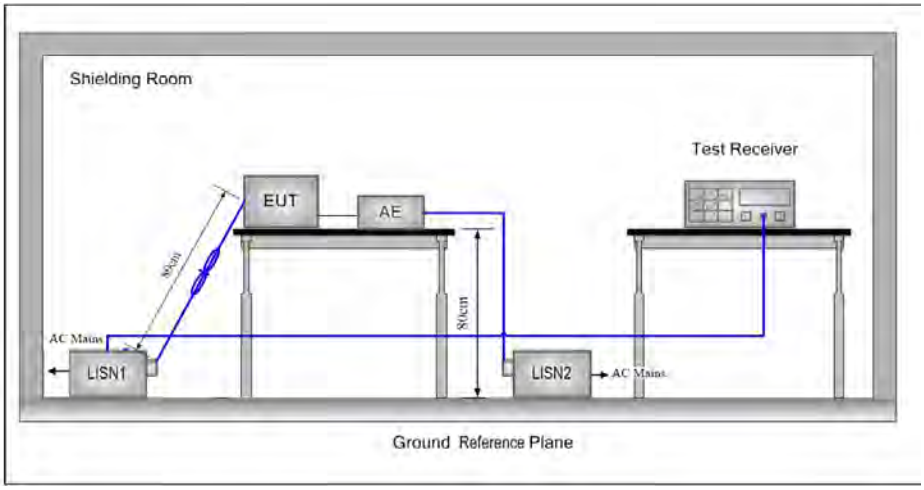
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer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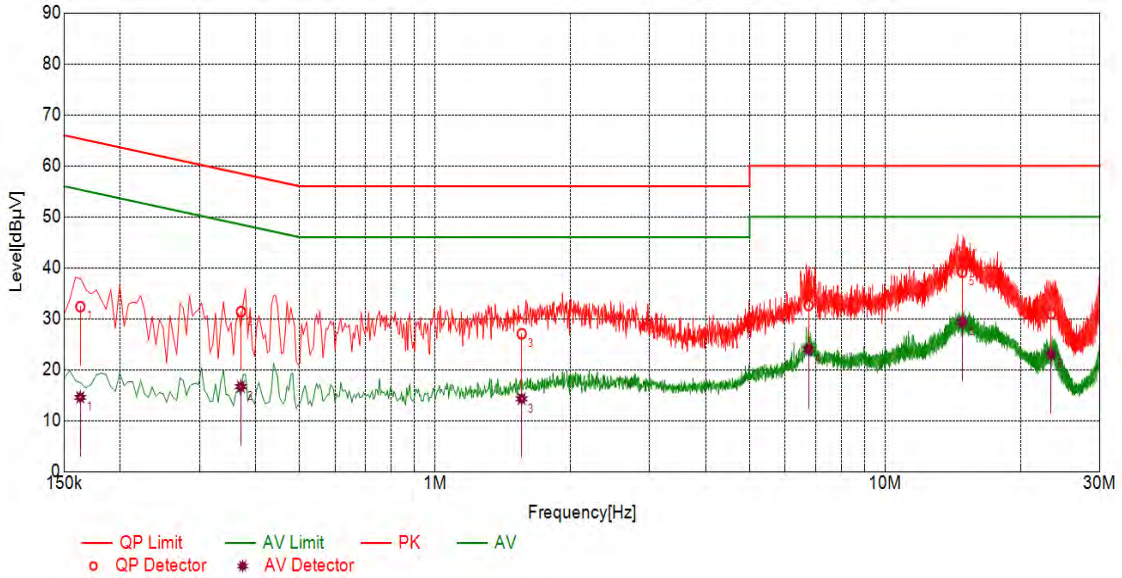
Live Line:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1630	10.10	32.38	65.31	32.93	14.57	55.31	40.74	L
2	0.3707	10.10	31.40	58.49	27.09	16.67	48.49	31.82	L
3	1.5583	10.10	27.06	56.00	28.94	14.28	46.00	31.72	L
4	6.7594	10.10	32.64	60.00	27.36	23.98	50.00	26.02	L
5	14.8468	10.11	39.11	60.00	20.89	29.34	50.00	20.66	L
6	23.3803	10.11	30.97	60.00	29.03	22.99	50.00	27.01	L

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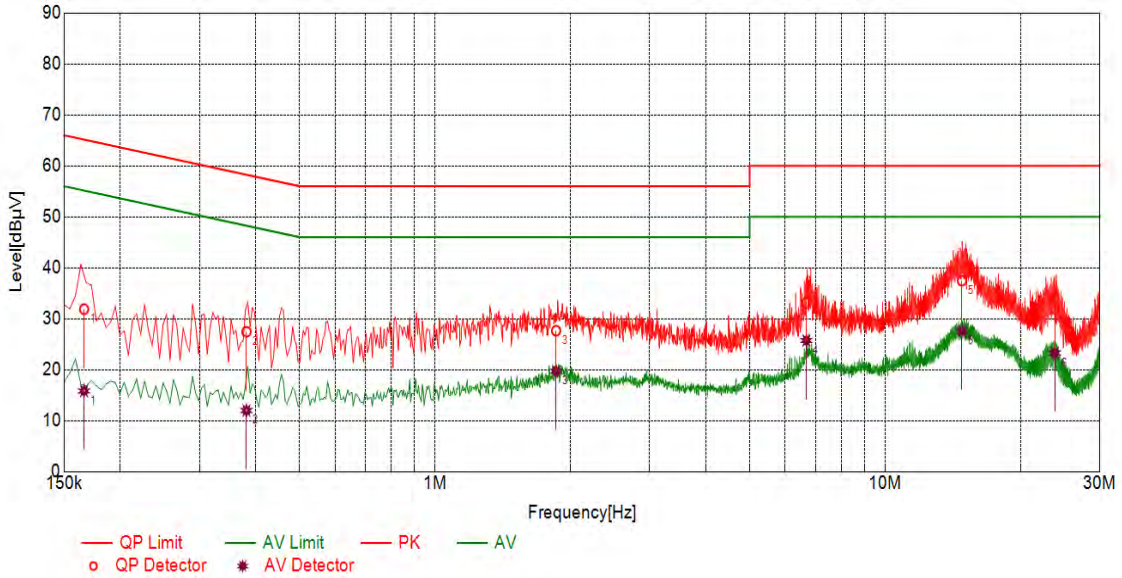
Neutral Line:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1662	10.10	31.87	65.15	33.28	15.83	55.15	39.32	N
2	0.3814	10.10	27.44	58.25	30.81	11.99	48.25	36.26	N
3	1.8586	10.10	27.64	56.00	28.36	19.71	46.00	26.29	N
4	6.6859	10.10	33.16	60.00	26.84	25.73	50.00	24.27	N
5	14.8157	10.11	37.46	60.00	22.54	27.57	50.00	22.43	N
6	23.8239	10.11	32.01	60.00	27.99	23.29	50.00	26.71	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

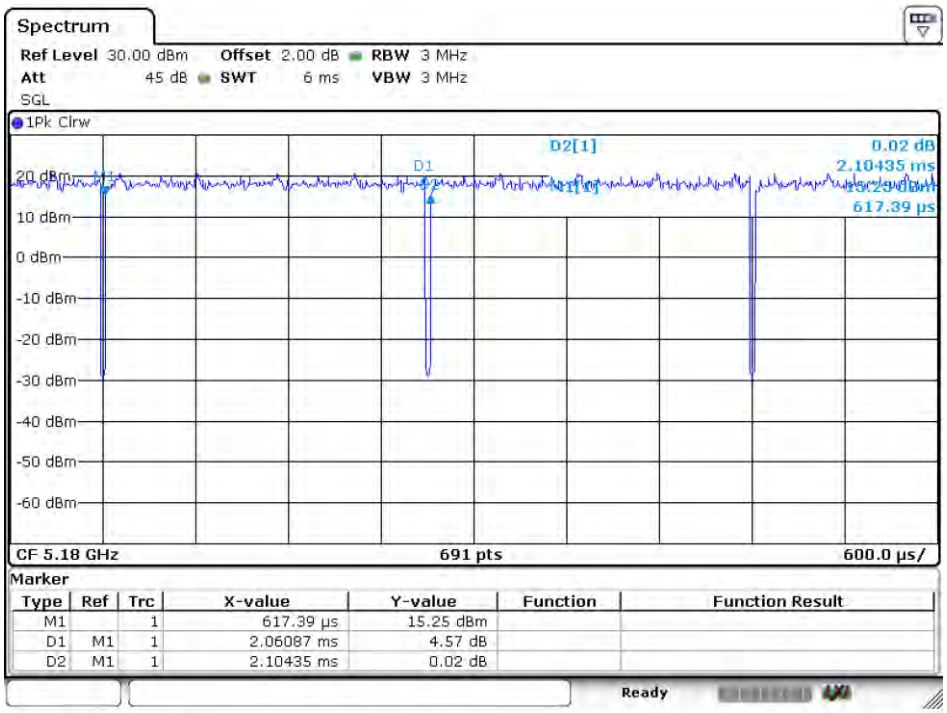
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]	Duty Cycle Correction Factor[dB]
11A	Ant 1: CH149, CH157, CH161	97.93	0.09
11N20	Ant 1: CH149, CH157, CH161	97.79	0.10
11N40	Ant 1: CH151, CH159	96.02	0.18
11AC20	Ant 1: CH149, CH157, CH161	97.80	0.10
11AC40	Ant 1: CH151, CH159	96.48	0.16
11AC80	Ant 1: CH155	92.61	0.33

4.3.1 Test Plots

4.3.1.1 ANT1

4.3.1.1.1 11A



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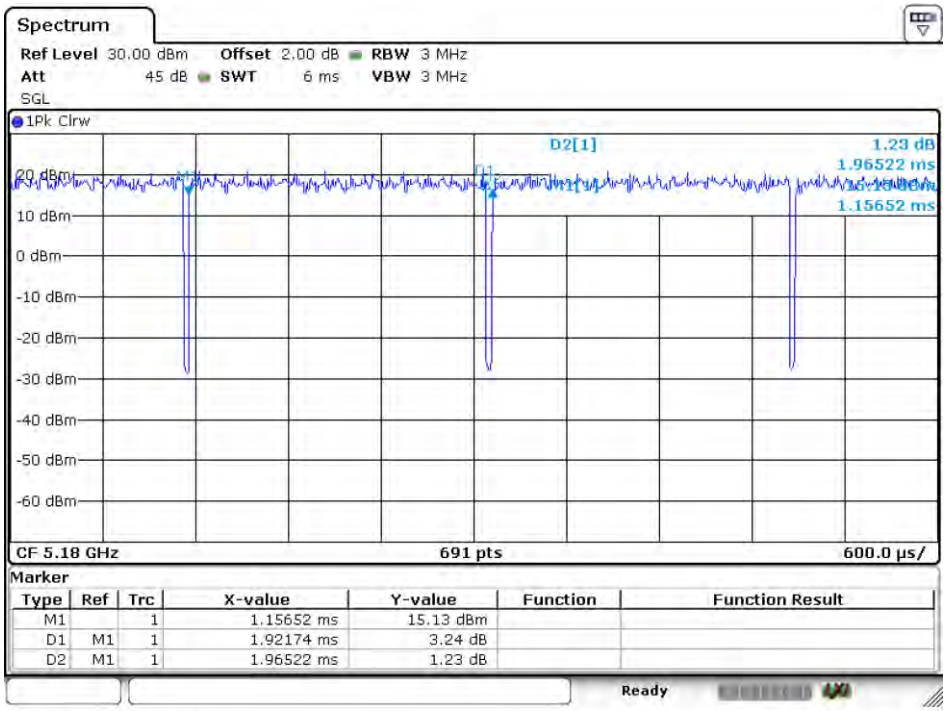
4.3.1.1.2 11N20



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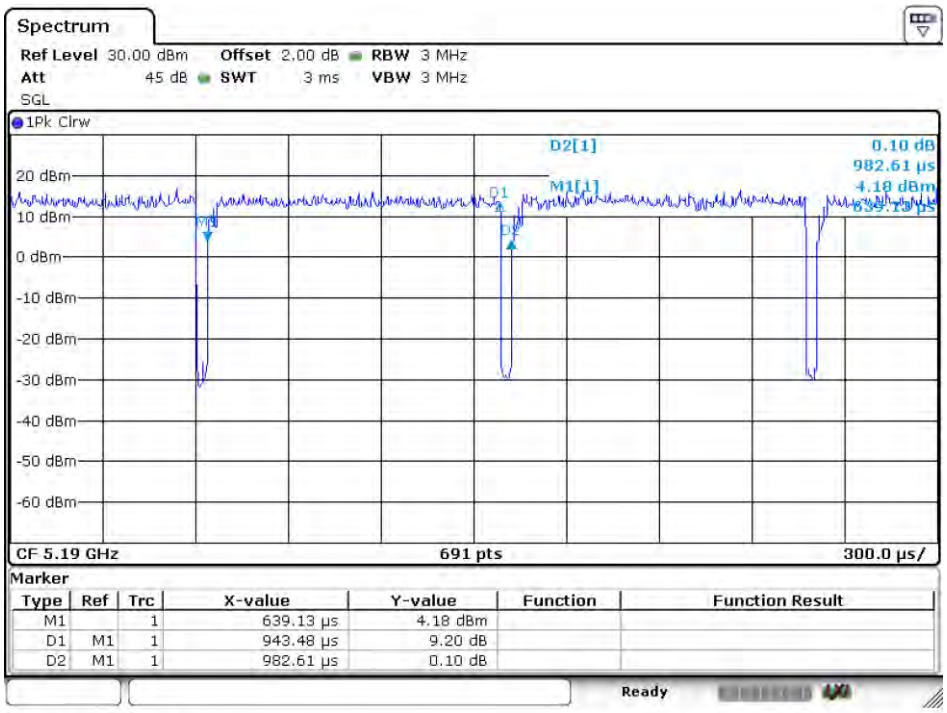
4.3.1.1.3 11N40



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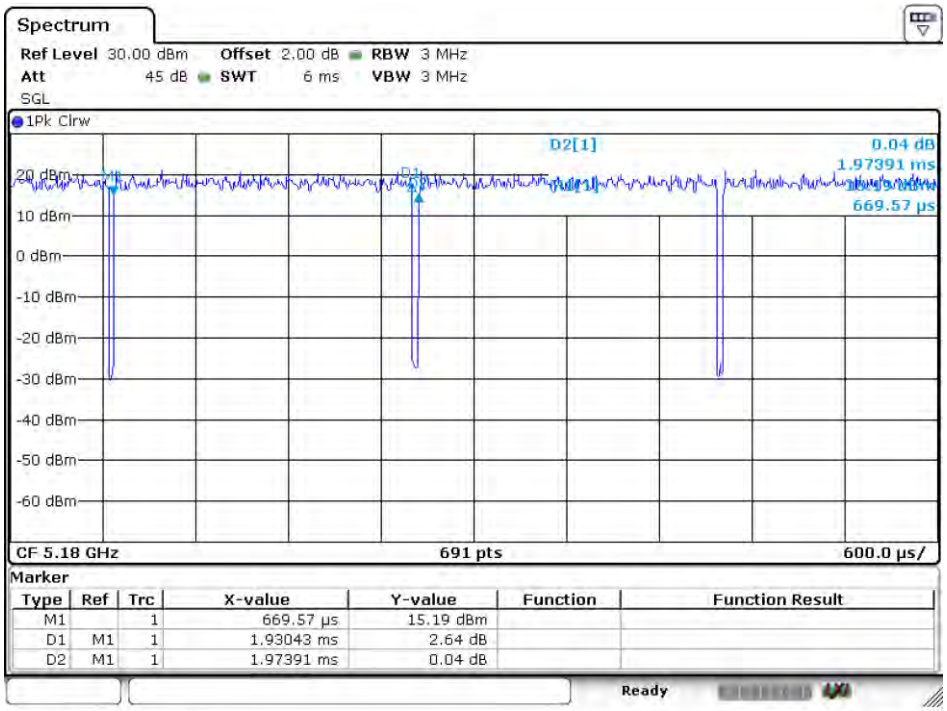
4.3.1.1.4 11AC20



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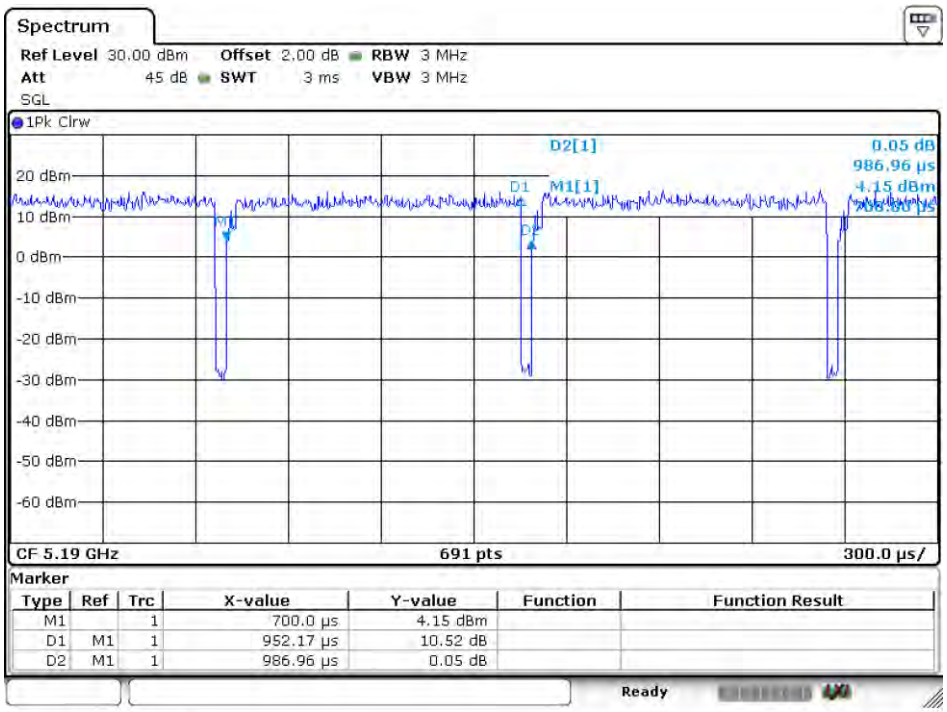
4.3.1.1.5 11AC40



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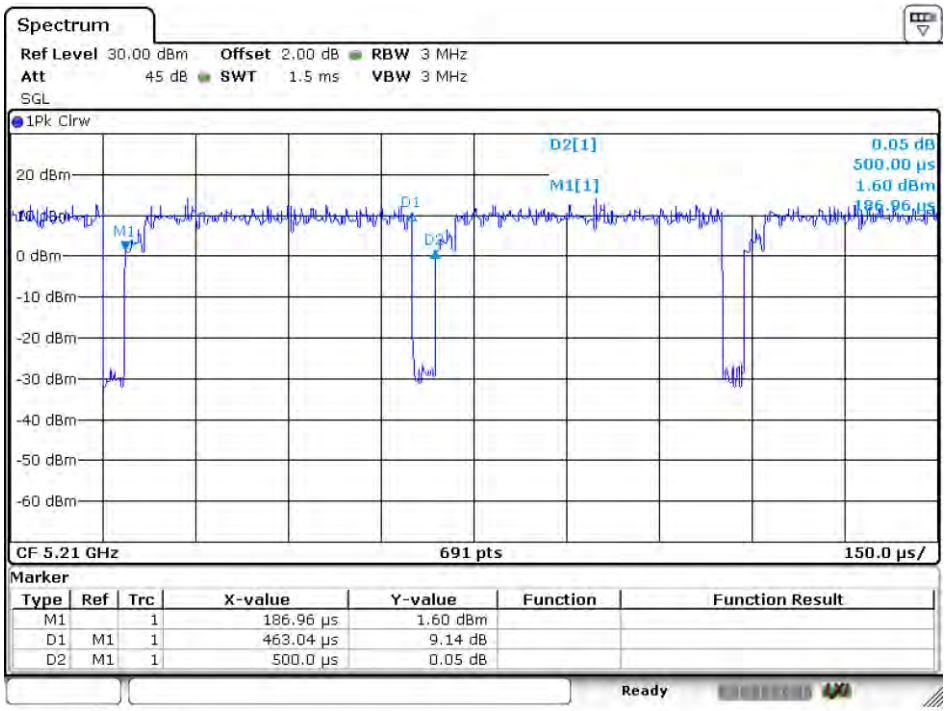
4.3.1.1.6 11AC80



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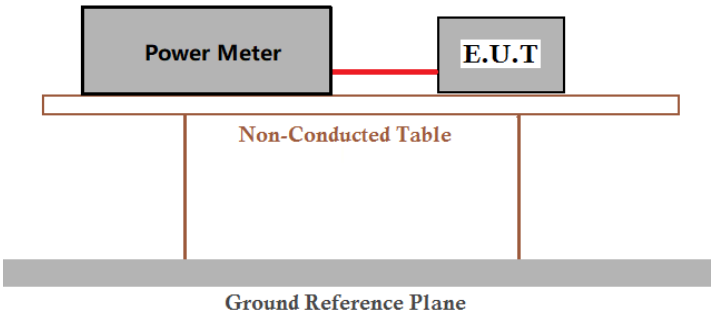
4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013 KDB 789033 D02 v02r01, Section E.3.b (Method PM-G).
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+ 10logB
	5470-5725MHz / The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz / Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz
Test Results:	Pass

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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	19.27	20.27	PASS
	44	5220	ANT 1	19.65	20.65	PASS
	48	5240	ANT 1	19.61	20.61	PASS
	52	5260	ANT 1	19.55	20.55	PASS
	60	5300	ANT 1	19.77	20.77	PASS
	64	5320	ANT 1	19.96	20.96	PASS
	100	5500	ANT 1	19.62	20.62	PASS
	116	5580	ANT 1	19.29	20.29	PASS
	140	5700	ANT 1	19.26	20.26	PASS
	149	5745	ANT 1	15.38	16.38	PASS
	157	5785	ANT 1	15.12	16.12	PASS
	161	5805	ANT 1	15.11	16.11	PASS
11N20	36	5180	ANT 1	18.25	19.25	PASS
	44	5220	ANT 1	18.69	19.69	PASS
	48	5240	ANT 1	18.63	19.63	PASS
	52	5260	ANT 1	18.57	19.57	PASS
	60	5300	ANT 1	18.76	19.76	PASS
	64	5320	ANT 1	19.09	20.09	PASS
	100	5500	ANT 1	18.78	19.78	PASS
	116	5580	ANT 1	18.59	19.59	PASS
	140	5700	ANT 1	18.61	19.61	PASS
	149	5745	ANT 1	14.67	15.67	PASS
	157	5785	ANT 1	14.35	15.35	PASS
	161	5805	ANT 1	14.11	15.11	PASS
11N40	38	5190	ANT 1	19.05	20.05	PASS
	46	5230	ANT 1	19.33	20.33	PASS
	54	5270	ANT 1	19.21	20.21	PASS
	62	5310	ANT 1	19.46	20.46	PASS

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	102	5510	ANT 1	19.35	20.35	PASS
	110	5550	ANT 1	19.2	20.2	PASS
	134	5670	ANT 1	19.07	20.07	PASS
	151	5755	ANT 1	14.05	15.05	PASS
	159	5795	ANT 1	14.65	15.65	PASS
11AC20	36	5180	ANT 1	16.65	17.65	PASS
	44	5220	ANT 1	17.1	18.1	PASS
	48	5240	ANT 1	17.02	18.02	PASS
	52	5260	ANT 1	16.93	17.93	PASS
	60	5300	ANT 1	17.08	18.08	PASS
	64	5320	ANT 1	17.53	18.53	PASS
	100	5500	ANT 1	17.28	18.28	PASS
	116	5580	ANT 1	16.92	17.92	PASS
	140	5700	ANT 1	17.09	18.09	PASS
	149	5745	ANT 1	13.95	14.95	PASS
	157	5785	ANT 1	13.46	14.46	PASS
	161	5805	ANT 1	13.02	14.02	PASS
11AC40	38	5190	ANT 1	15.91	16.91	PASS
	46	5230	ANT 1	16.39	17.39	PASS
	54	5270	ANT 1	16.4	17.4	PASS
	62	5310	ANT 1	16.69	17.69	PASS
	102	5510	ANT 1	16.68	17.68	PASS
	110	5550	ANT 1	16.46	17.46	PASS
	134	5670	ANT 1	16.54	17.54	PASS
	151	5755	ANT 1	13.48	14.48	PASS
	159	5795	ANT 1	13.88	14.88	PASS
11AC80	42	5210	ANT 1	15.91	16.91	PASS
	58	5290	ANT 1	16.3	17.3	PASS
	106	5530	ANT 1	16.35	17.35	PASS
	122	5610	ANT 1	15.92	16.92	PASS
	155	5775	ANT 1	13.64	14.64	PASS

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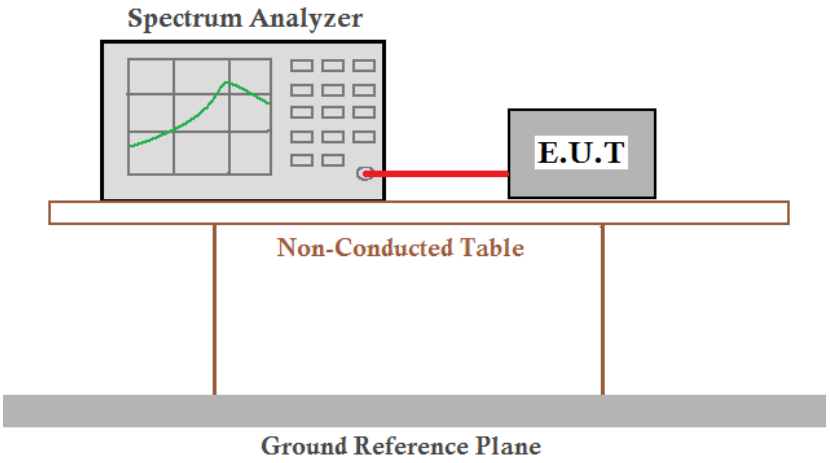
4.5 26dB Emission Bandwidth

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

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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	23.04	PASS
	44	5220	ANT 1	22.74	PASS
	48	5240	ANT 1	22.89	PASS
	60	5300	ANT 1	23.25	PASS
	52	5260	ANT 1	22.41	PASS
	64	5320	ANT 1	23.31	PASS
	100	5500	ANT 1	22.74	PASS
	116	5580	ANT 1	22.95	PASS
	140	5700	ANT 1	22.86	PASS
11N20	36	5180	ANT 1	23.55	PASS
	44	5220	ANT 1	23.67	PASS
	48	5240	ANT 1	24.36	PASS
	52	5260	ANT 1	23.22	PASS
	60	5300	ANT 1	23.43	PASS
	64	5320	ANT 1	23.79	PASS
	100	5500	ANT 1	24.84	PASS
	116	5580	ANT 1	23.67	PASS
	140	5700	ANT 1	23.82	PASS
11N40	38	5190	ANT 1	42.3	PASS
	46	5230	ANT 1	41.64	PASS
	54	5270	ANT 1	41.76	PASS
	62	5310	ANT 1	41.88	PASS
	102	5510	ANT 1	41.82	PASS
	110	5550	ANT 1	41.94	PASS
	134	5670	ANT 1	42.3	PASS
11AC20	36	5180	ANT 1	23.46	PASS
	44	5220	ANT 1	23.61	PASS
	48	5240	ANT 1	23.61	PASS
	52	5260	ANT 1	23.49	PASS
	60	5300	ANT 1	23.64	PASS
	64	5320	ANT 1	23.88	PASS
	100	5500	ANT 1	23.28	PASS
	116	5580	ANT 1	23.4	PASS
	140	5700	ANT 1	23.22	PASS
11AC40	38	5190	ANT 1	42.18	PASS
	46	5230	ANT 1	41.46	PASS

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	54	5270	ANT 1	41.58	PASS
	62	5310	ANT 1	41.88	PASS
	102	5510	ANT 1	41.46	PASS
	110	5550	ANT 1	41.7	PASS
	134	5670	ANT 1	41.64	PASS
11AC80	42	5210	ANT 1	83.04	PASS
	58	5290	ANT 1	89.92	PASS
	106	5530	ANT 1	96.48	PASS
	122	5610	ANT 1	87.04	PASS

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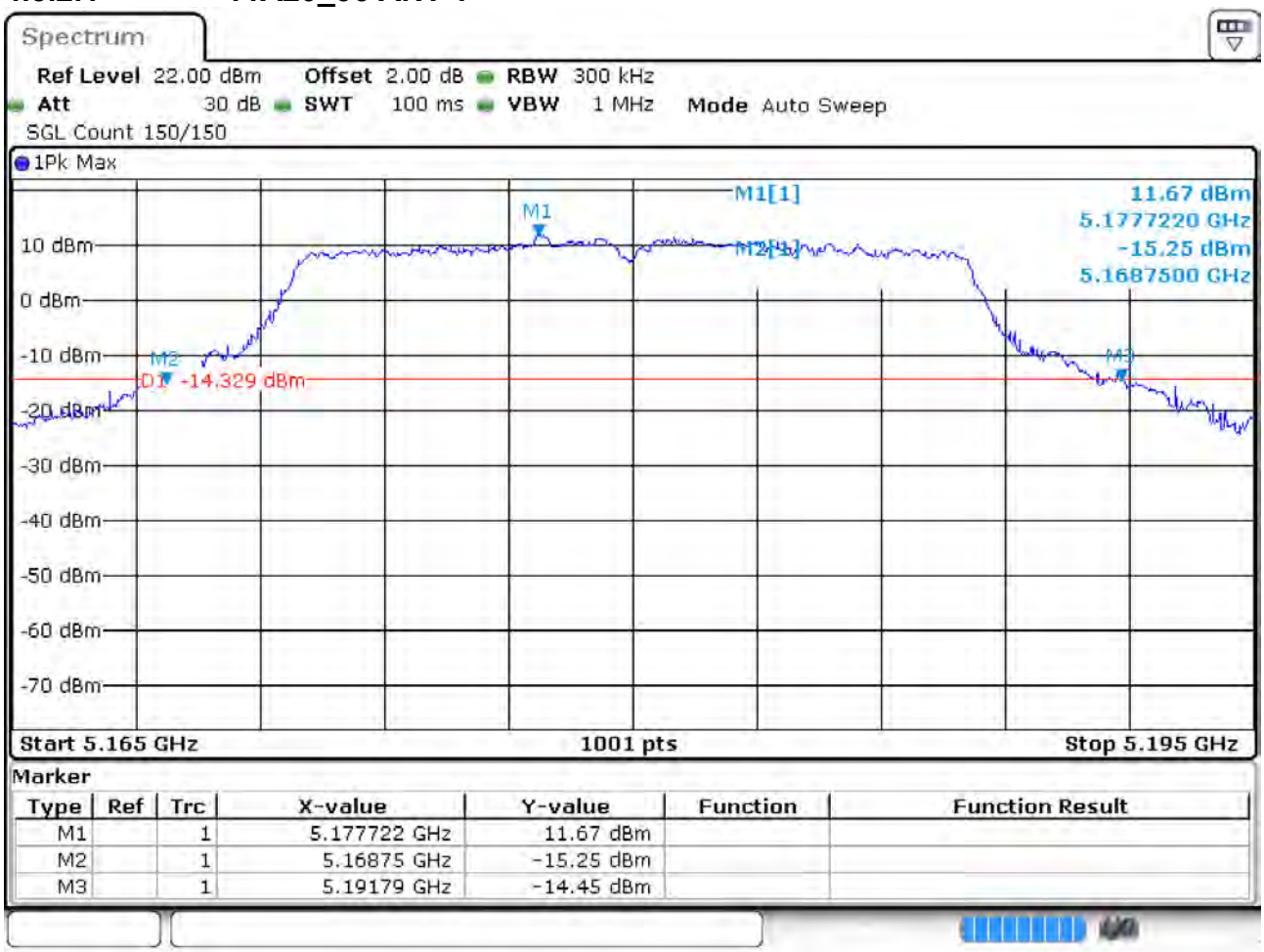
4.5.2 Plots for 26dB Emission Bandwidth

4.5.2.1 11A20_36 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.177722 GHz	11.67 dBm		
M2		1	5.16875 GHz	-15.25 dBm		
M3		1	5.19179 GHz	-14.45 dBm		

Date: 13.OCT.2020 11:17:48

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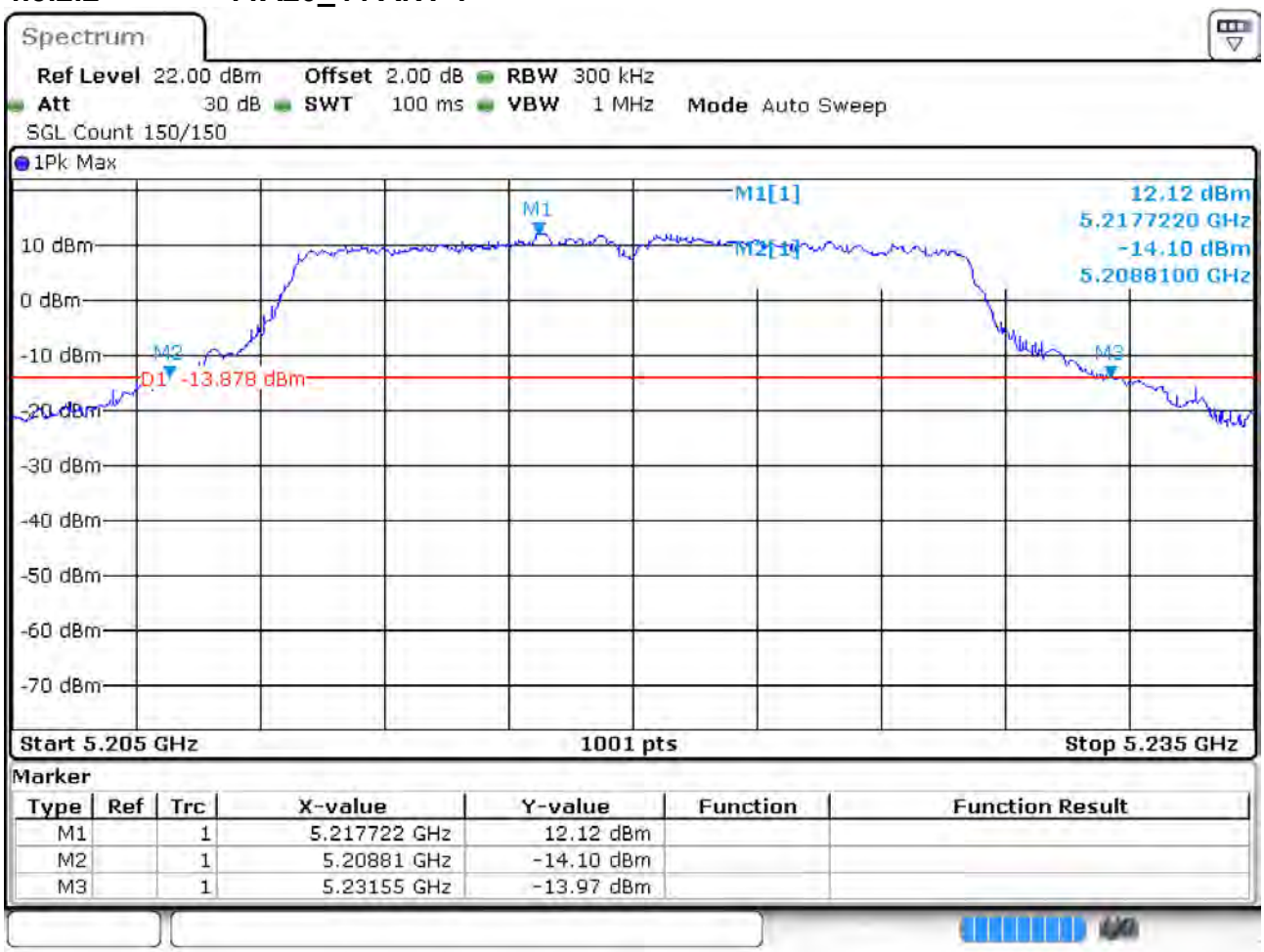
4.5.2.2 11A20_44 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.217722 GHz	12.12 dBm		
M2		1	5.20881 GHz	-14.10 dBm		
M3		1	5.23155 GHz	-13.97 dBm		

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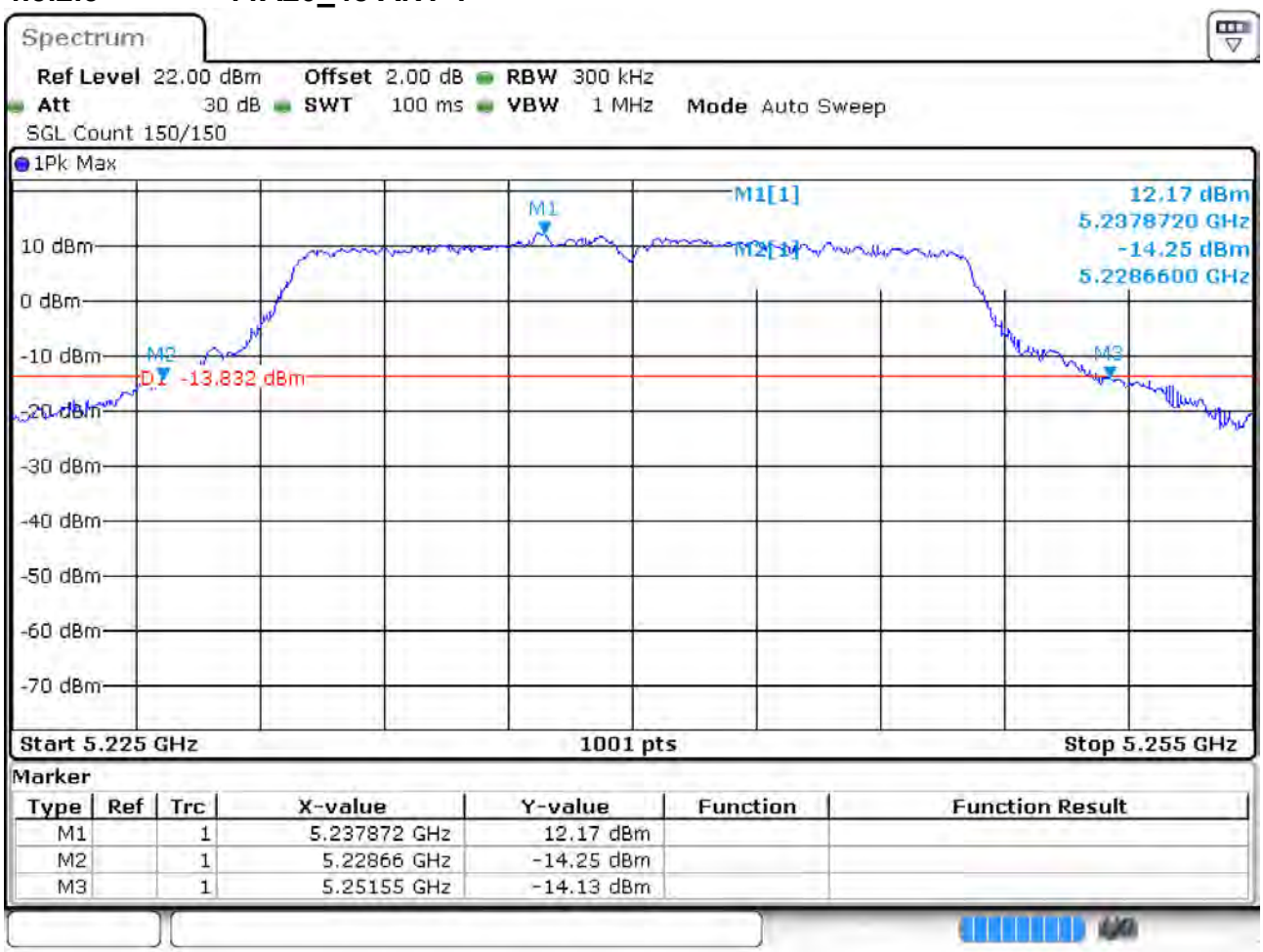
4.5.2.3 11A20_48 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.237872 GHz	12.17 dBm		
M2		1	5.22866 GHz	-14.25 dBm		
M3		1	5.25155 GHz	-14.13 dBm		

Date: 13.OCT.2020 11:22:11

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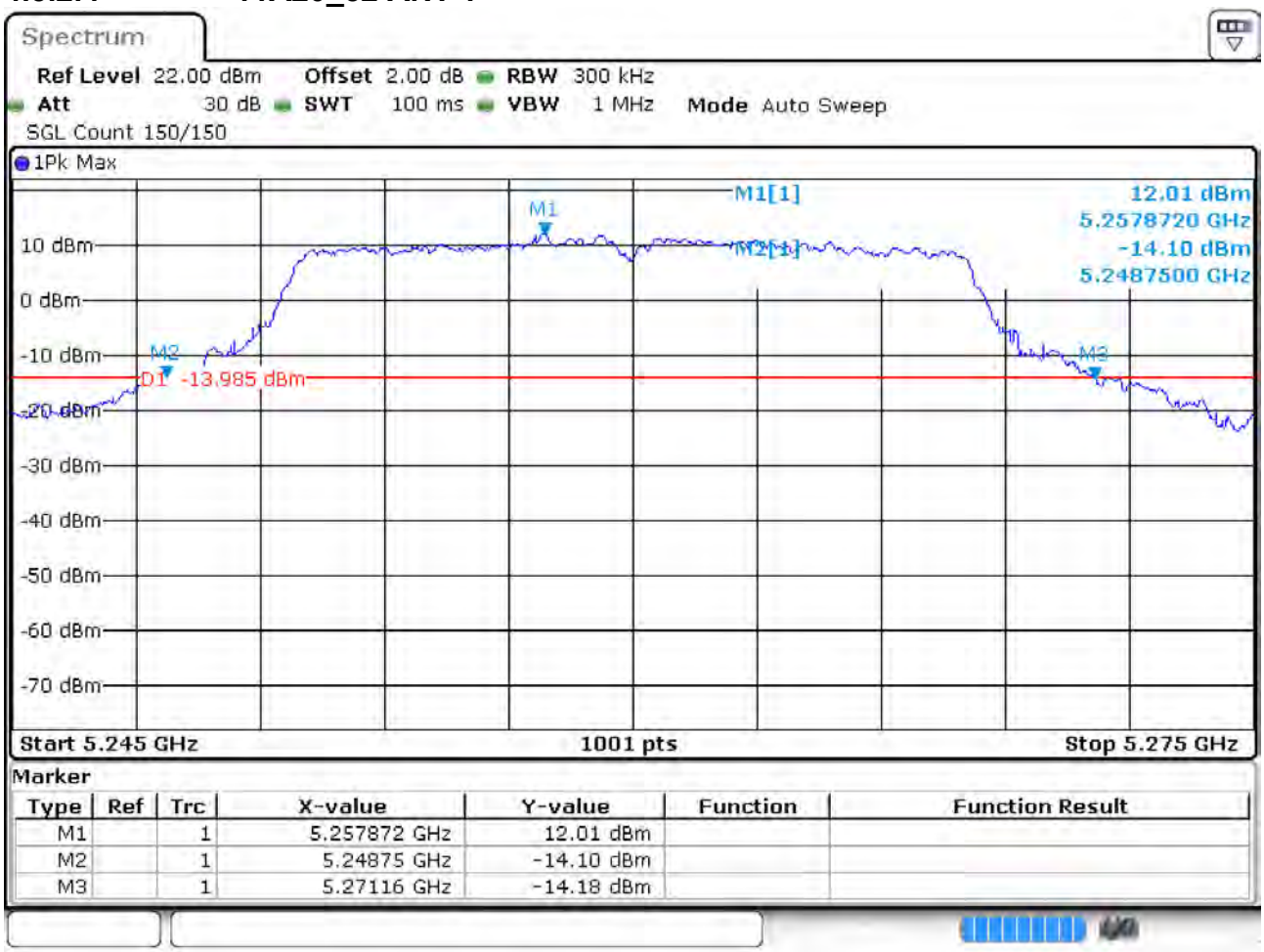
4.5.2.4 11A20_52 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.257872 GHz	12.01 dBm		
M2		1	5.24875 GHz	-14.10 dBm		
M3		1	5.27116 GHz	-14.18 dBm		

Date: 13.OCT.2020 11:24:00

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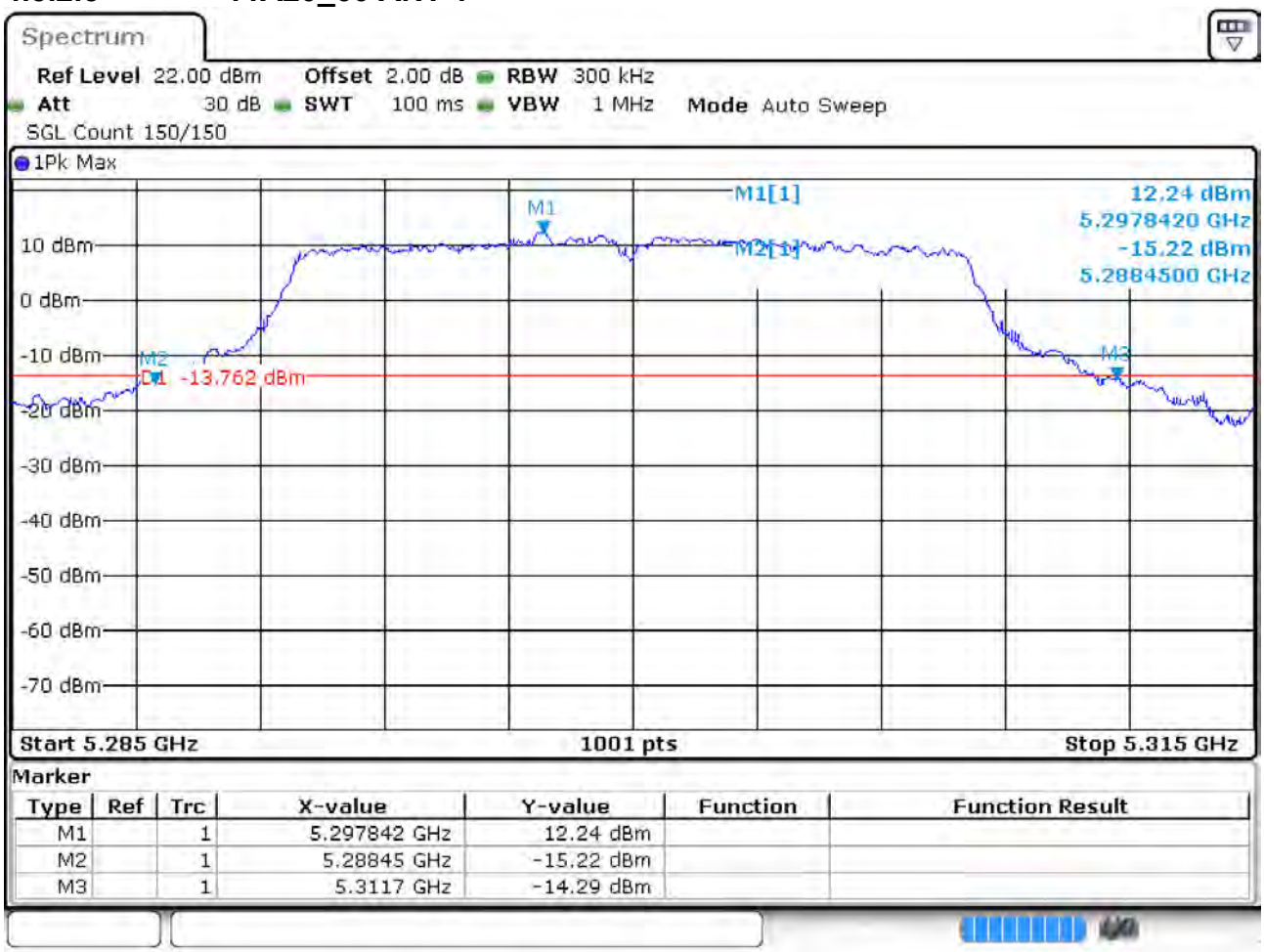
4.5.2.5 11A20_60 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.297842 GHz	12.24 dBm		
M2		1	5.28845 GHz	-15.22 dBm		
M3		1	5.3117 GHz	-14.29 dBm		

Date: 13.OCT.2020 11:27:00

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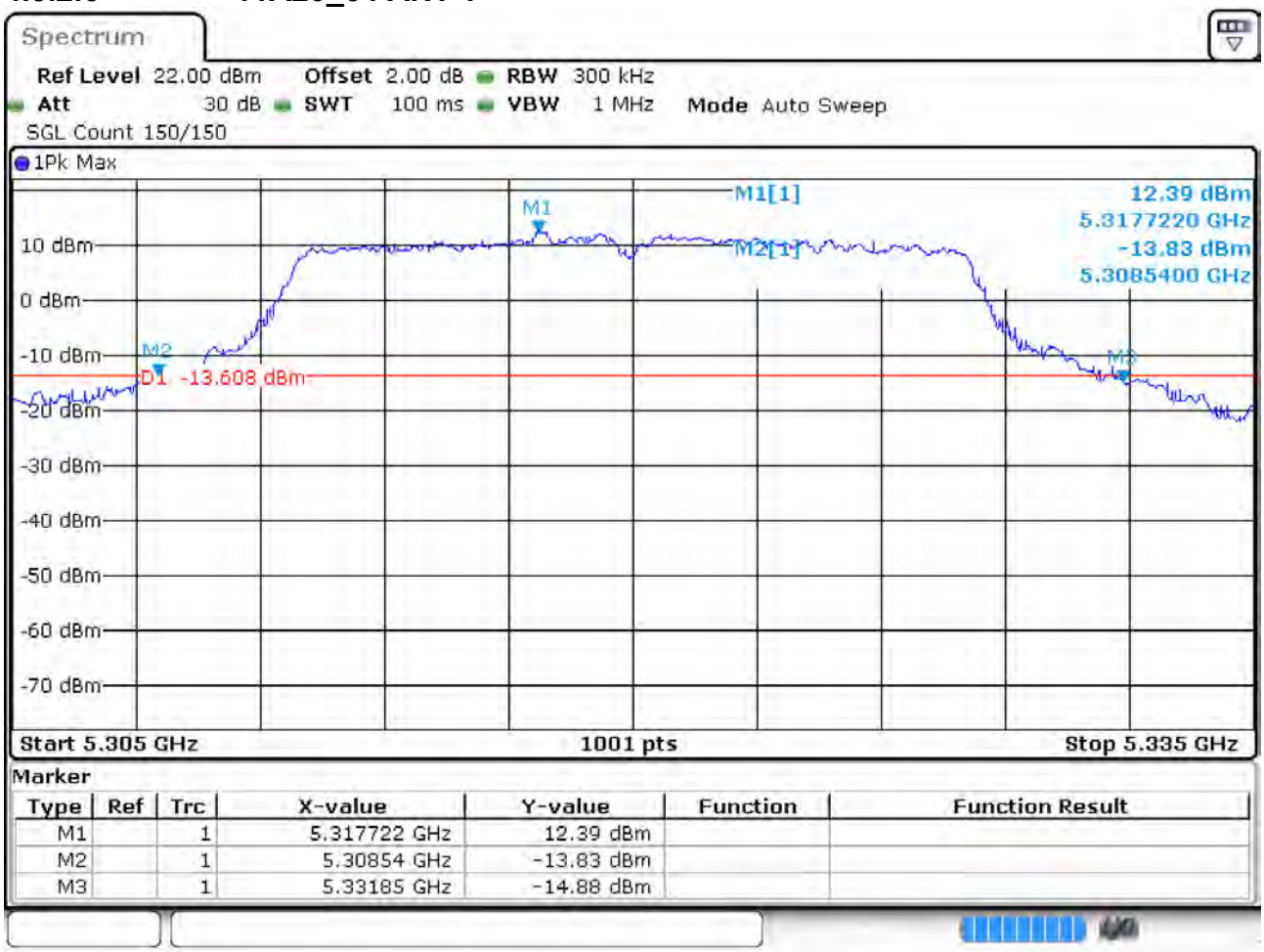
4.5.2.6 11A20_64 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.317722 GHz	12.39 dBm		
M2		1	5.30854 GHz	-13.83 dBm		
M3		1	5.33185 GHz	-14.88 dBm		

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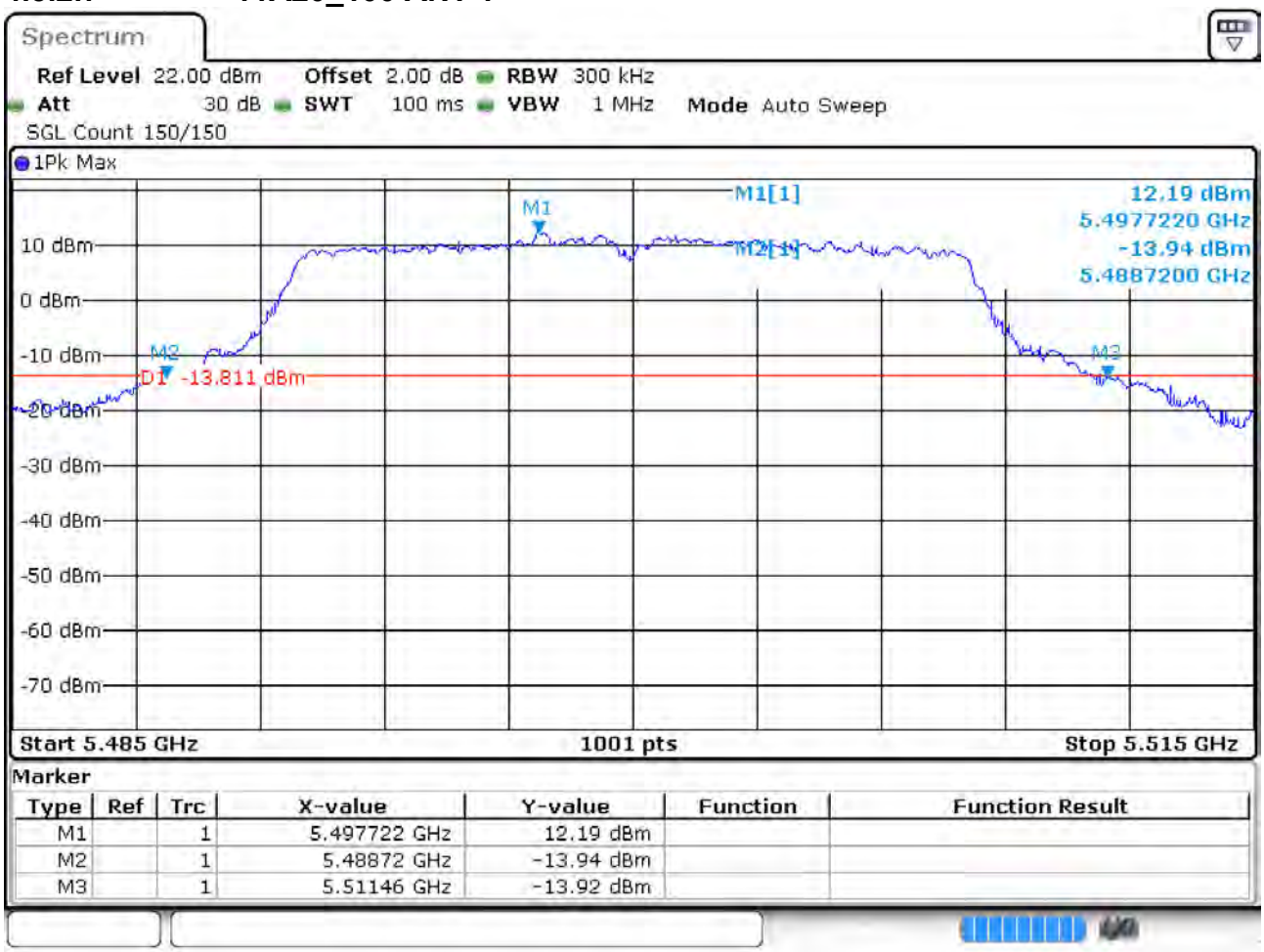
4.5.2.7 11A20_100 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.497722 GHz	12.19 dBm		
M2		1	5.48872 GHz	-13.94 dBm		
M3		1	5.51146 GHz	-13.92 dBm		

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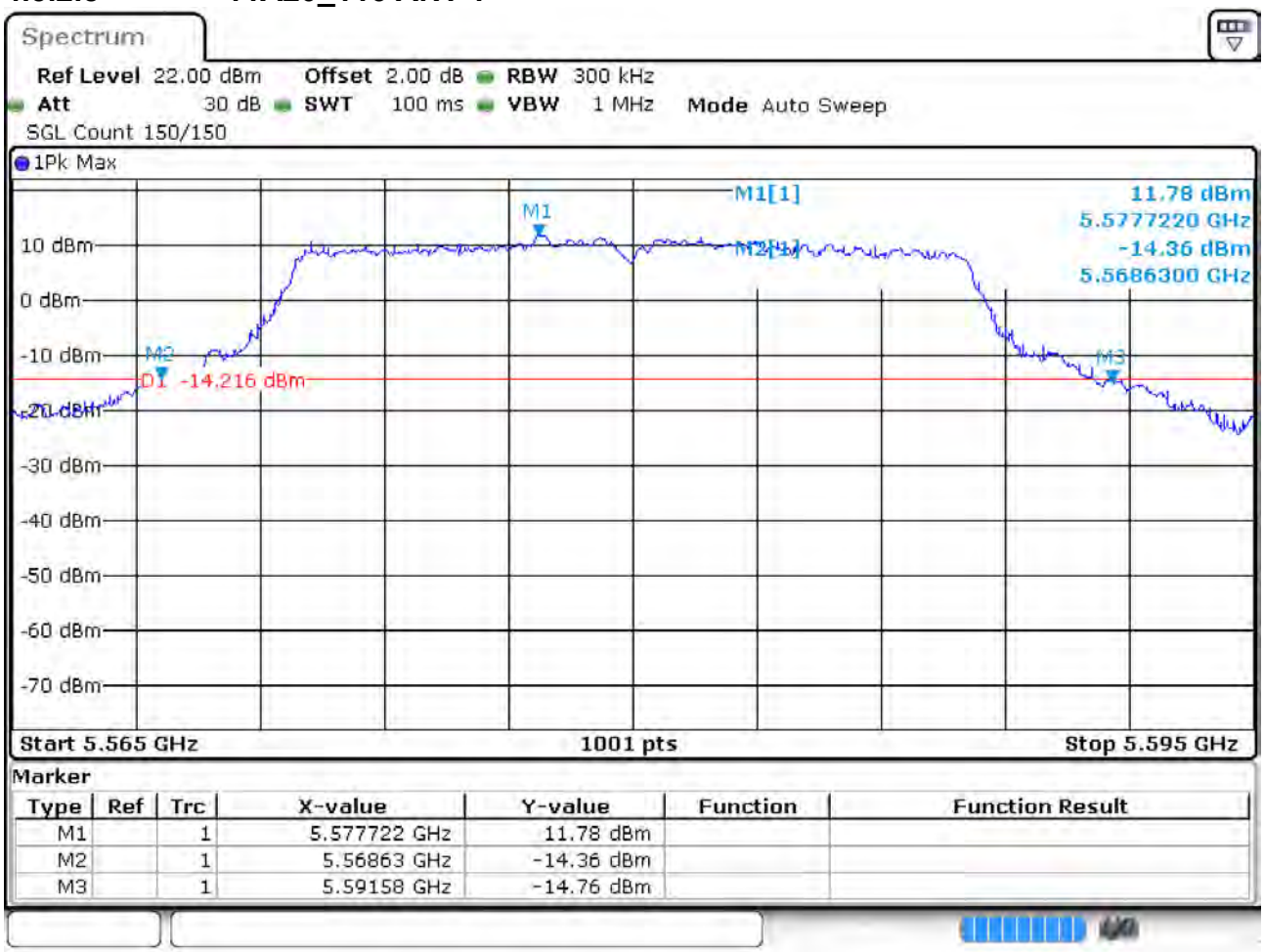
4.5.2.8 11A20_116 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.577722 GHz	11.78 dBm		
M2		1	5.56863 GHz	-14.36 dBm		
M3		1	5.59158 GHz	-14.76 dBm		

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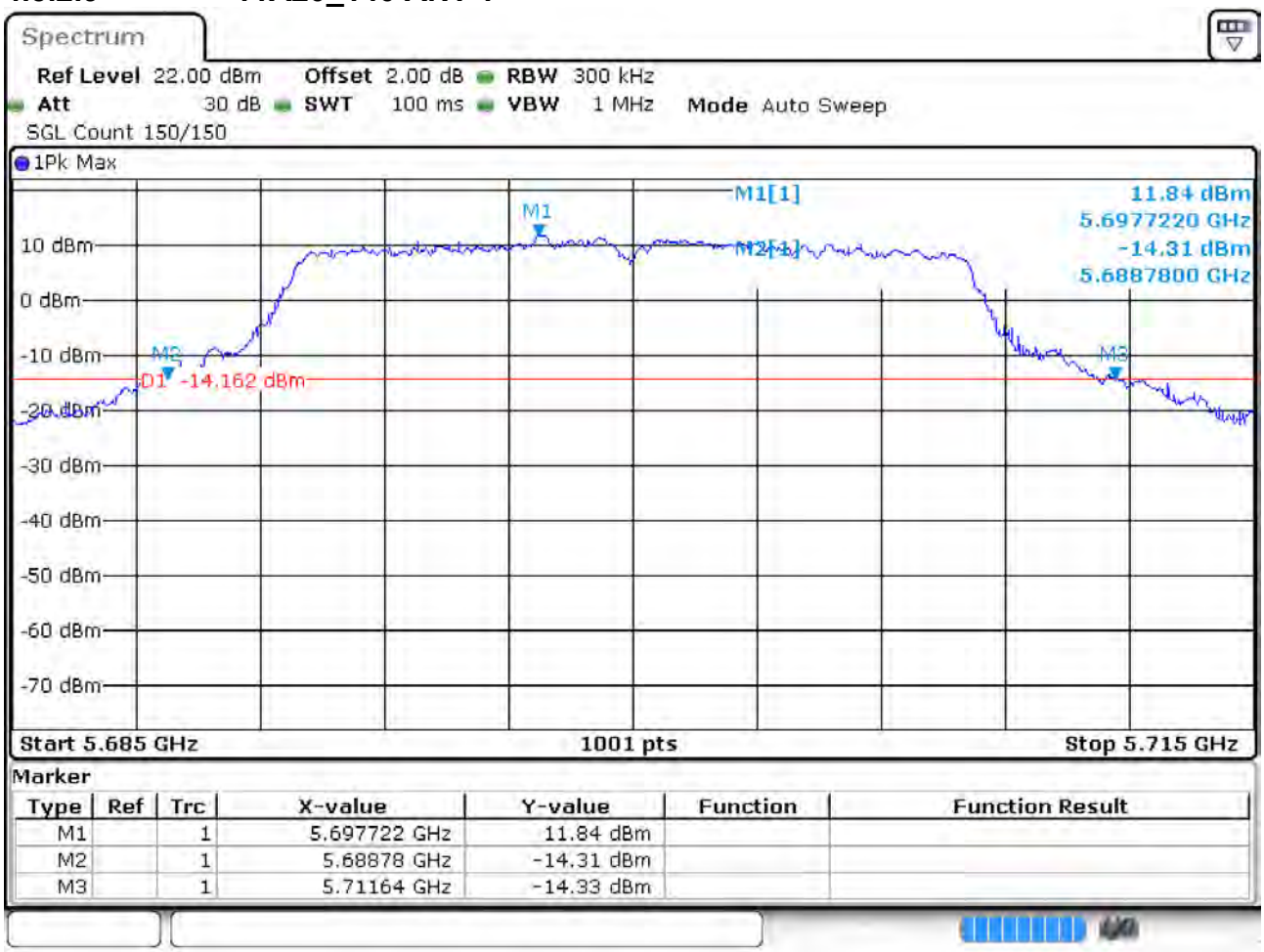
4.5.2.9 11A20_140 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.697722 GHz	11.84 dBm		
M2		1	5.68878 GHz	-14.31 dBm		
M3		1	5.71164 GHz	-14.33 dBm		

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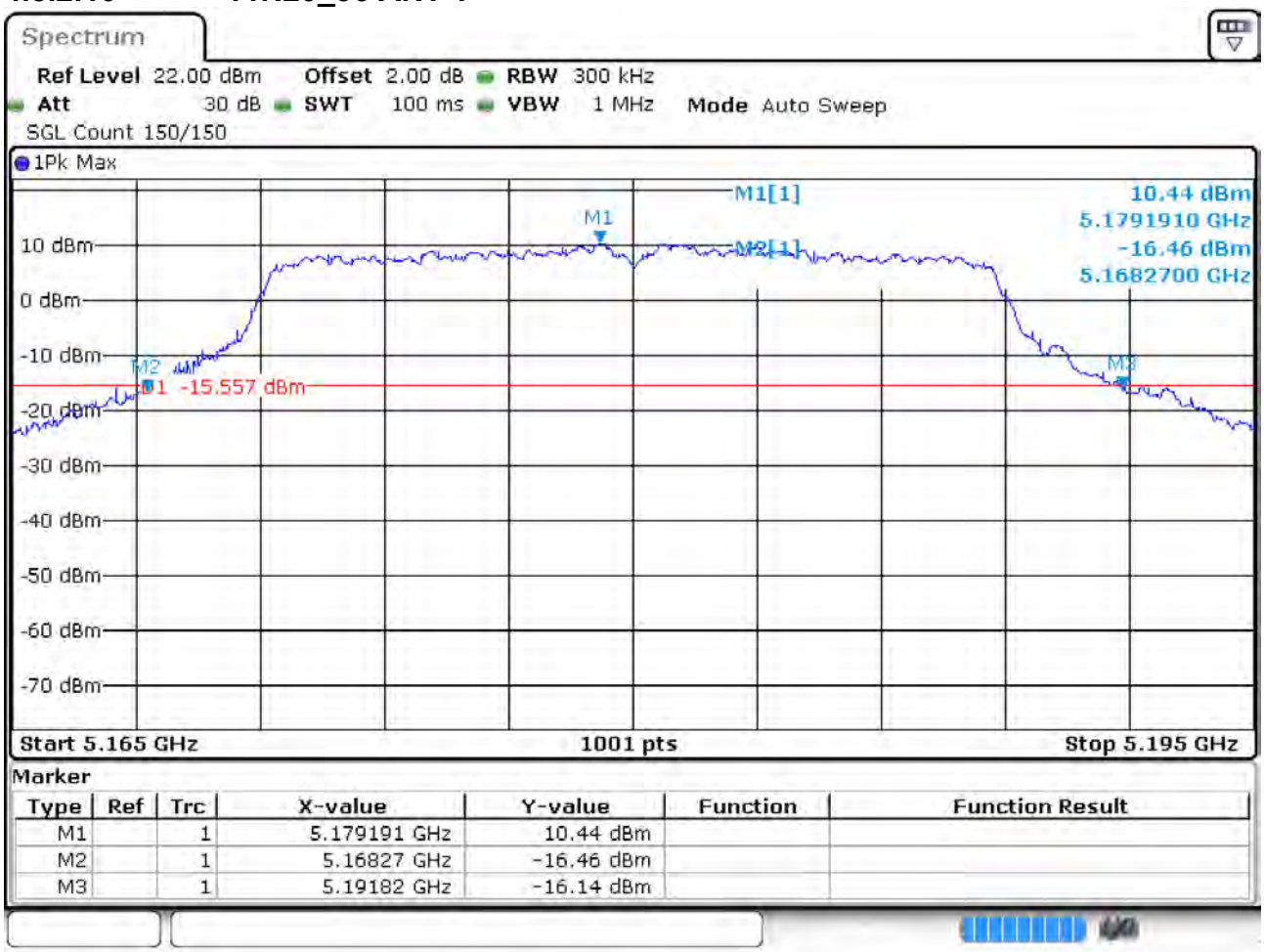
4.5.2.10 11N20_36 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.179191 GHz	10.44 dBm		
M2		1	5.16827 GHz	-16.46 dBm		
M3		1	5.19182 GHz	-16.14 dBm		

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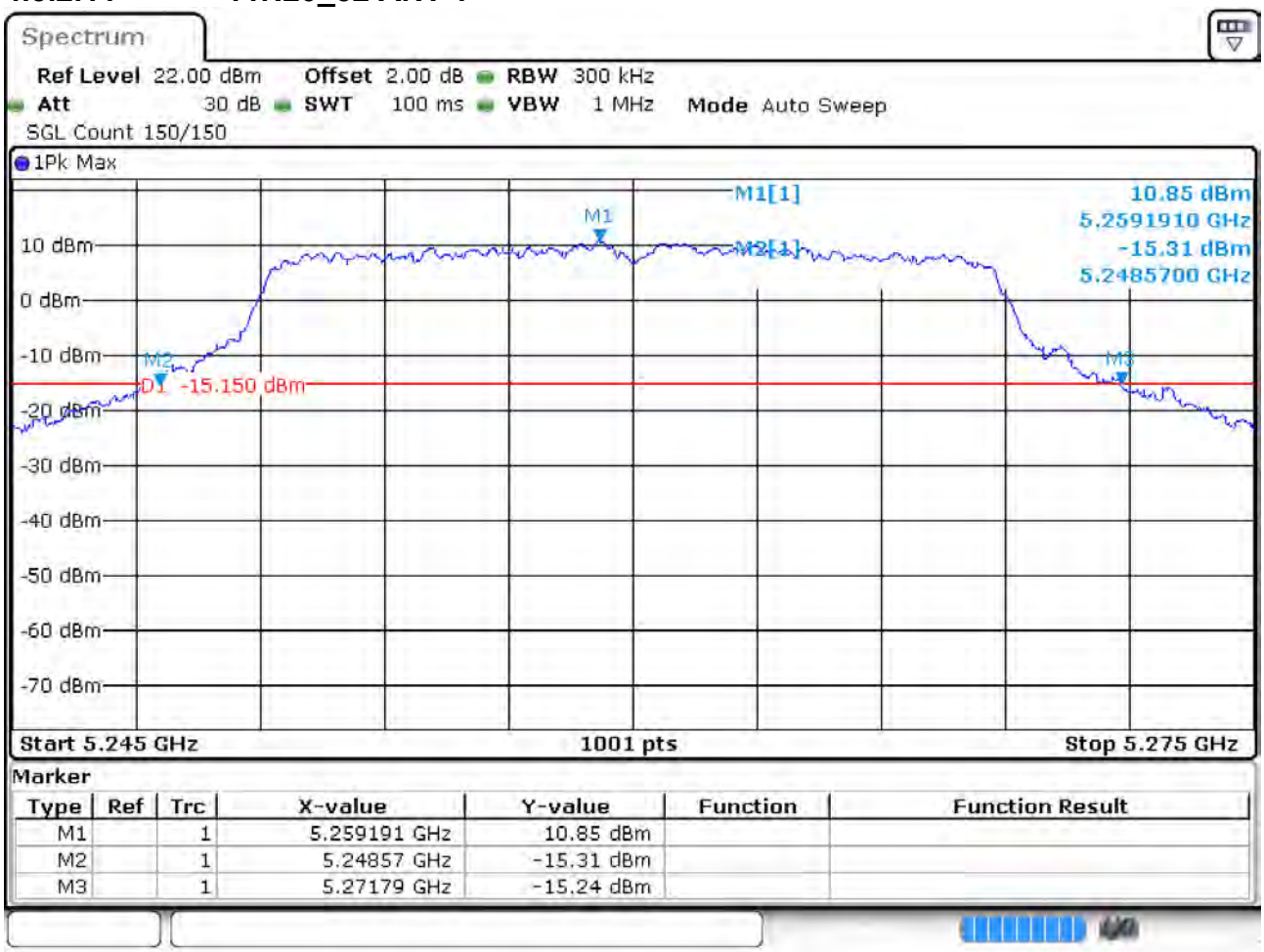
4.5.2.11 11N20_52 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.259191 GHz	10.85 dBm		
M2		1	5.24857 GHz	-15.31 dBm		
M3		1	5.27179 GHz	-15.24 dBm		

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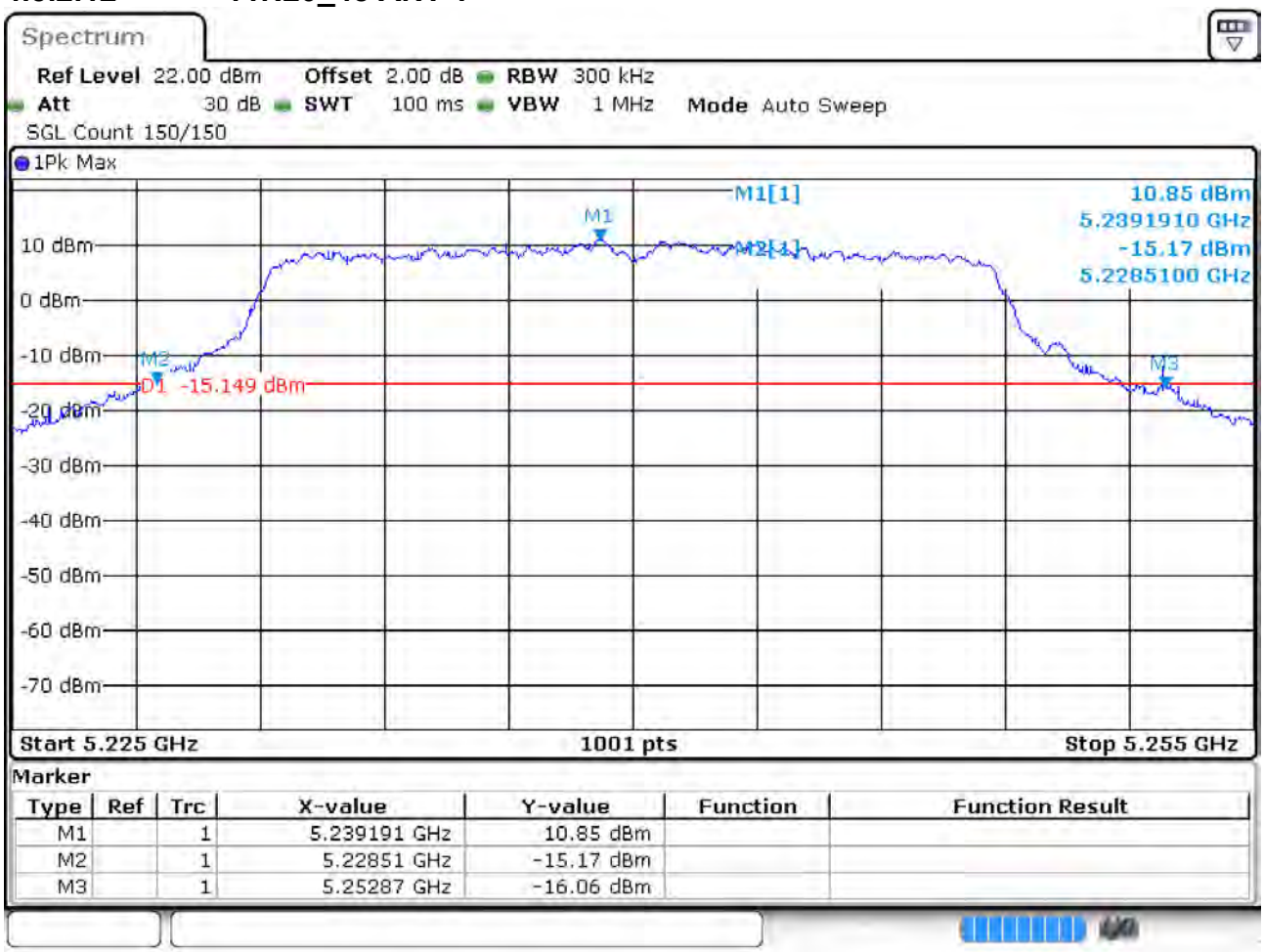
4.5.2.12 11N20_48 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.239191 GHz	10.85 dBm		
M2		1	5.22851 GHz	-15.17 dBm		
M3		1	5.25287 GHz	-16.06 dBm		

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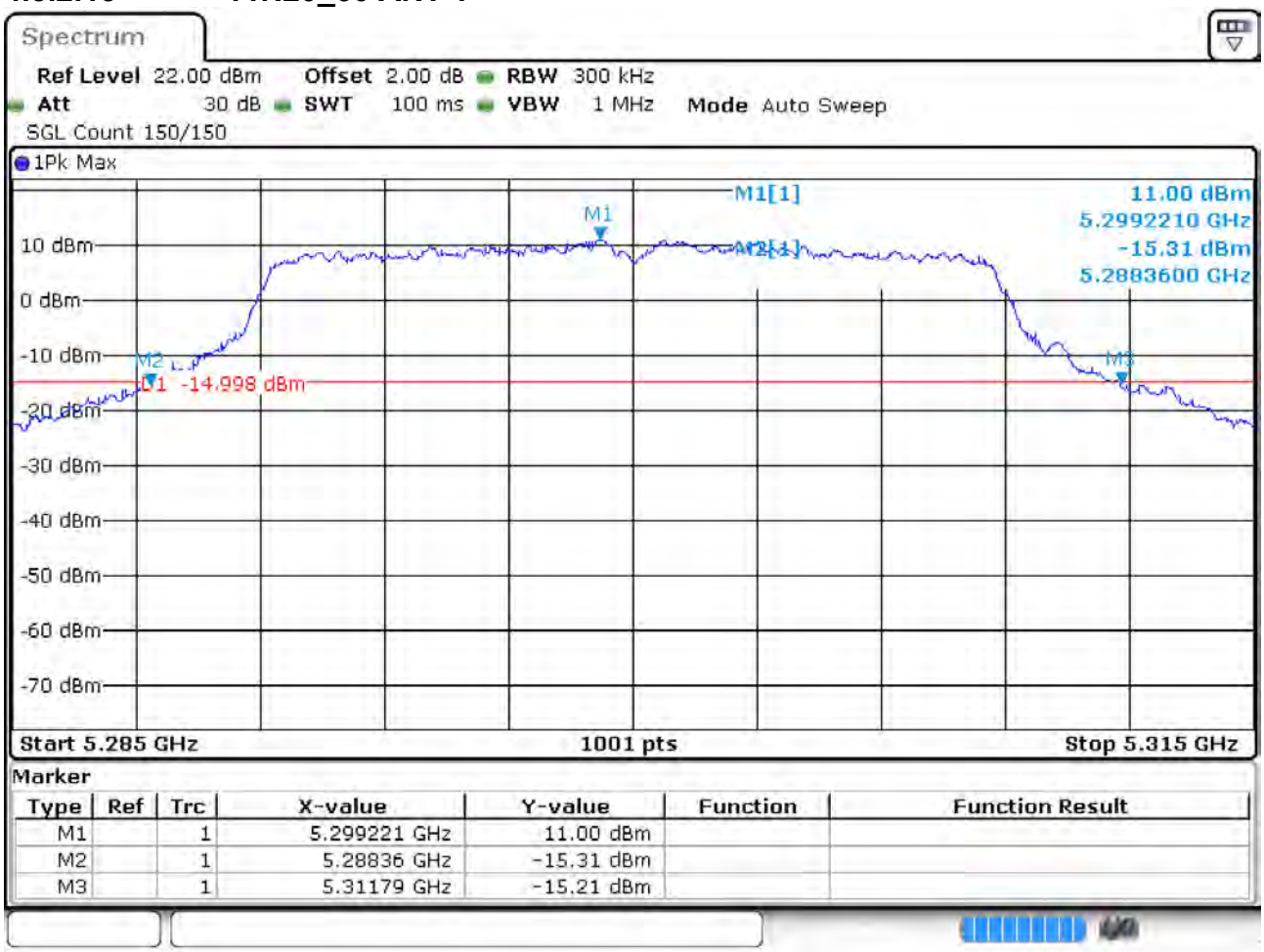
4.5.2.13 11N20_60 ANT 1



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.299221 GHz	11.00 dBm		
M2		1	5.28836 GHz	-15.31 dBm		
M3		1	5.31179 GHz	-15.21 dBm		

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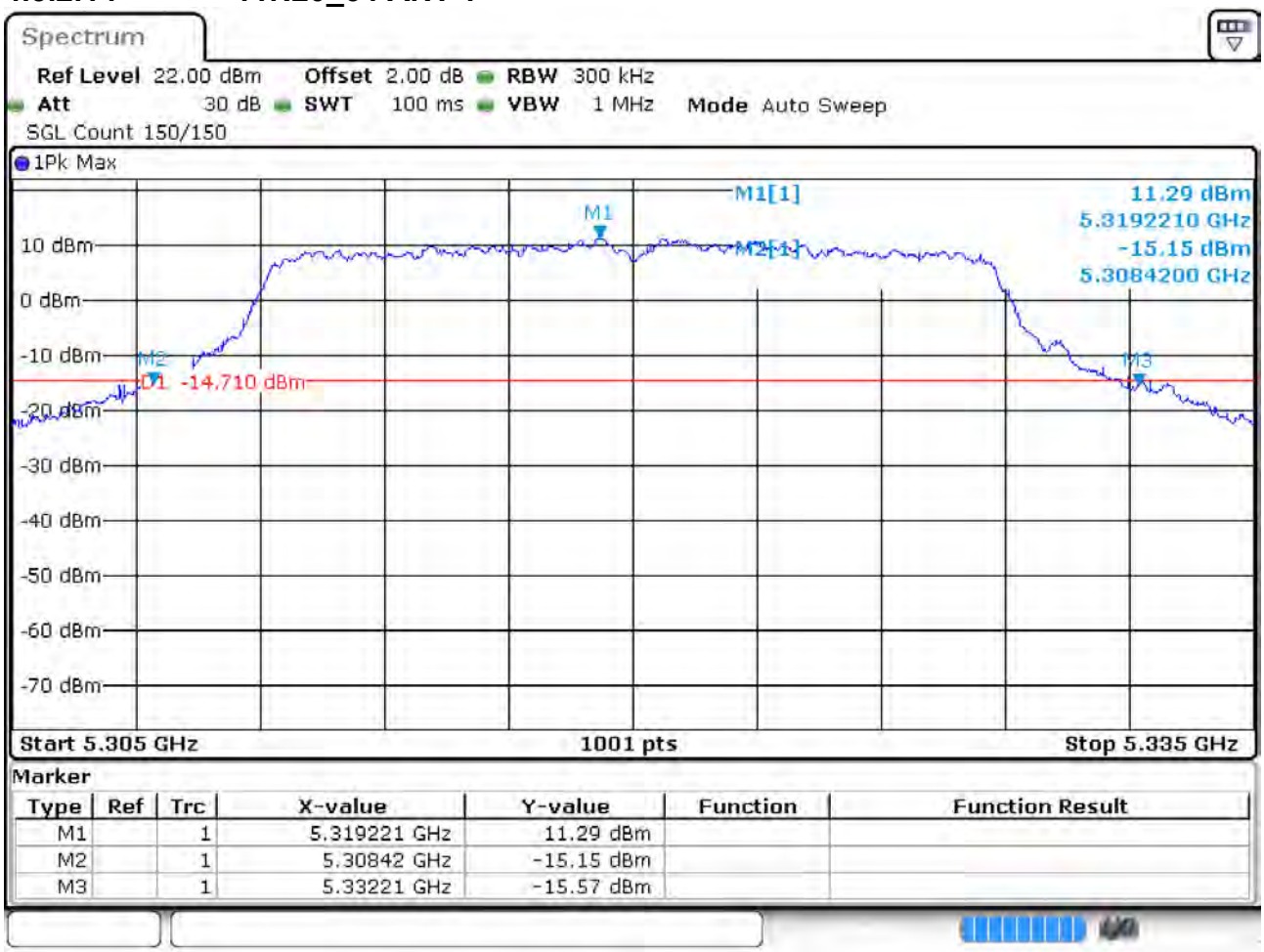
4.5.2.14 11N20_64 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.319221 GHz	11.29 dBm		
M2		1	5.30842 GHz	-15.15 dBm		
M3		1	5.33221 GHz	-15.57 dBm		

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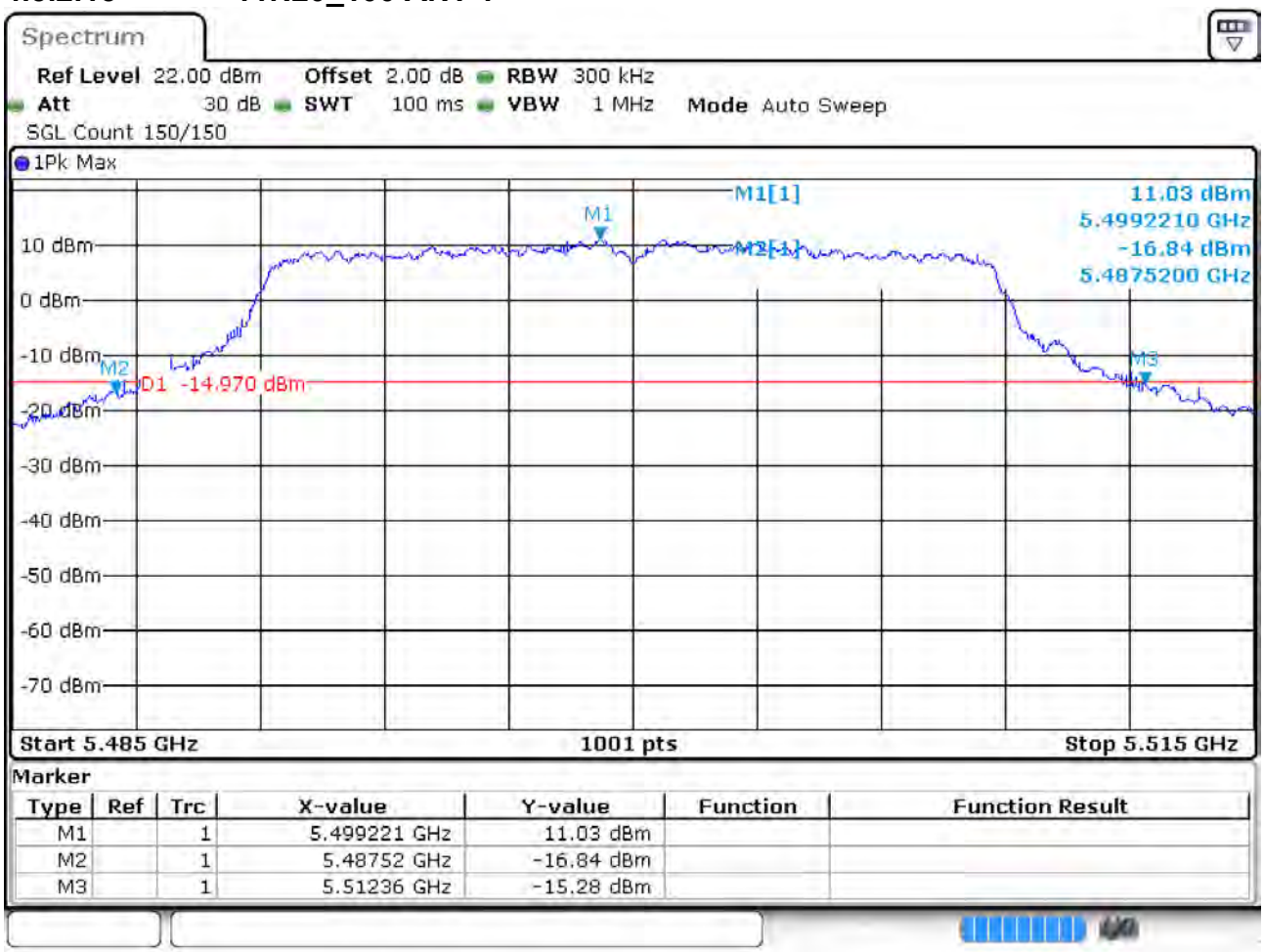

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.499221 GHz	11.03 dBm		
M2		1	5.48752 GHz	-16.84 dBm		
M3		1	5.51236 GHz	-15.28 dBm		

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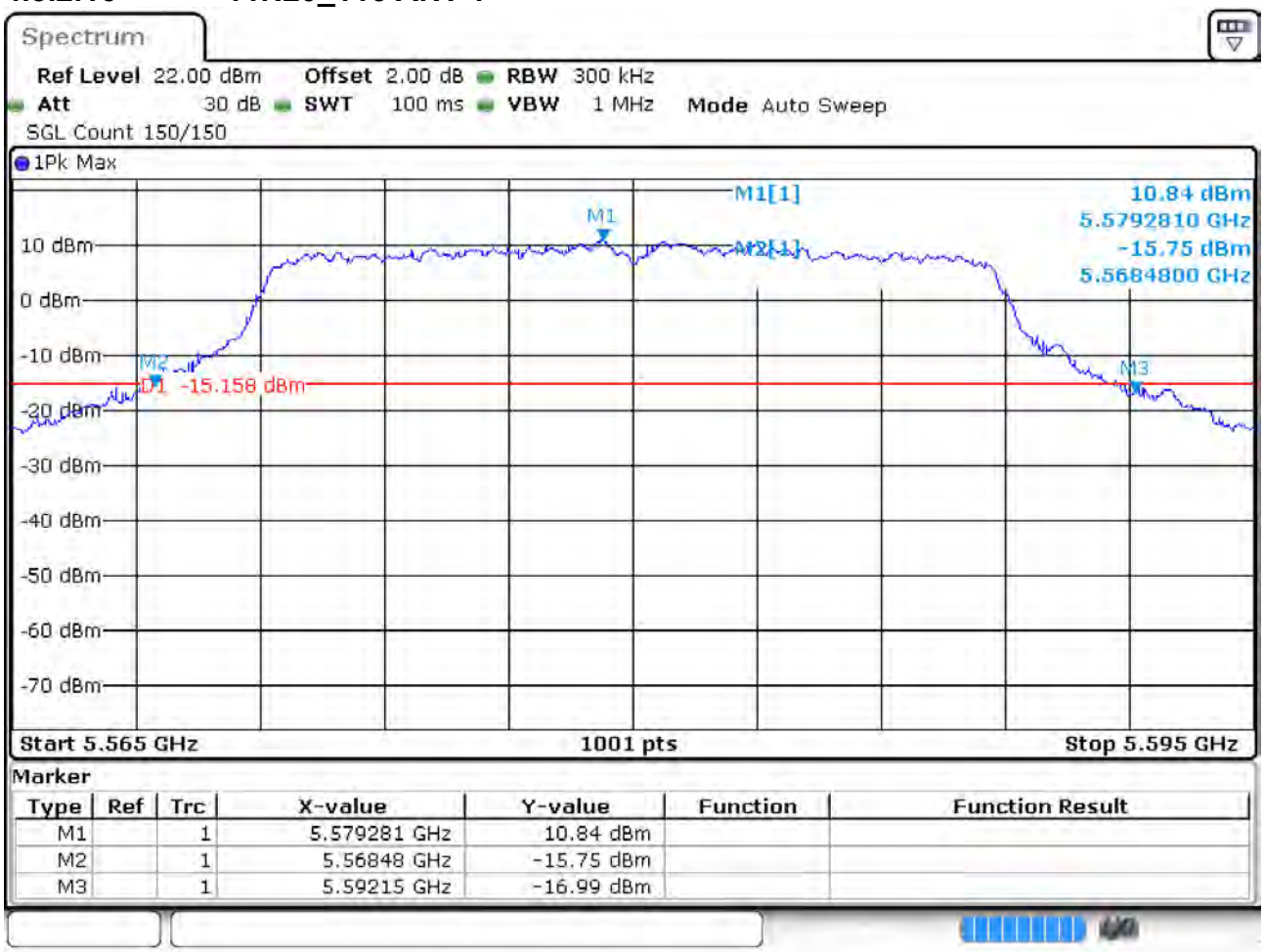

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.579281 GHz	10.84 dBm		
M2		1	5.56848 GHz	-15.75 dBm		
M3		1	5.59215 GHz	-16.99 dBm		

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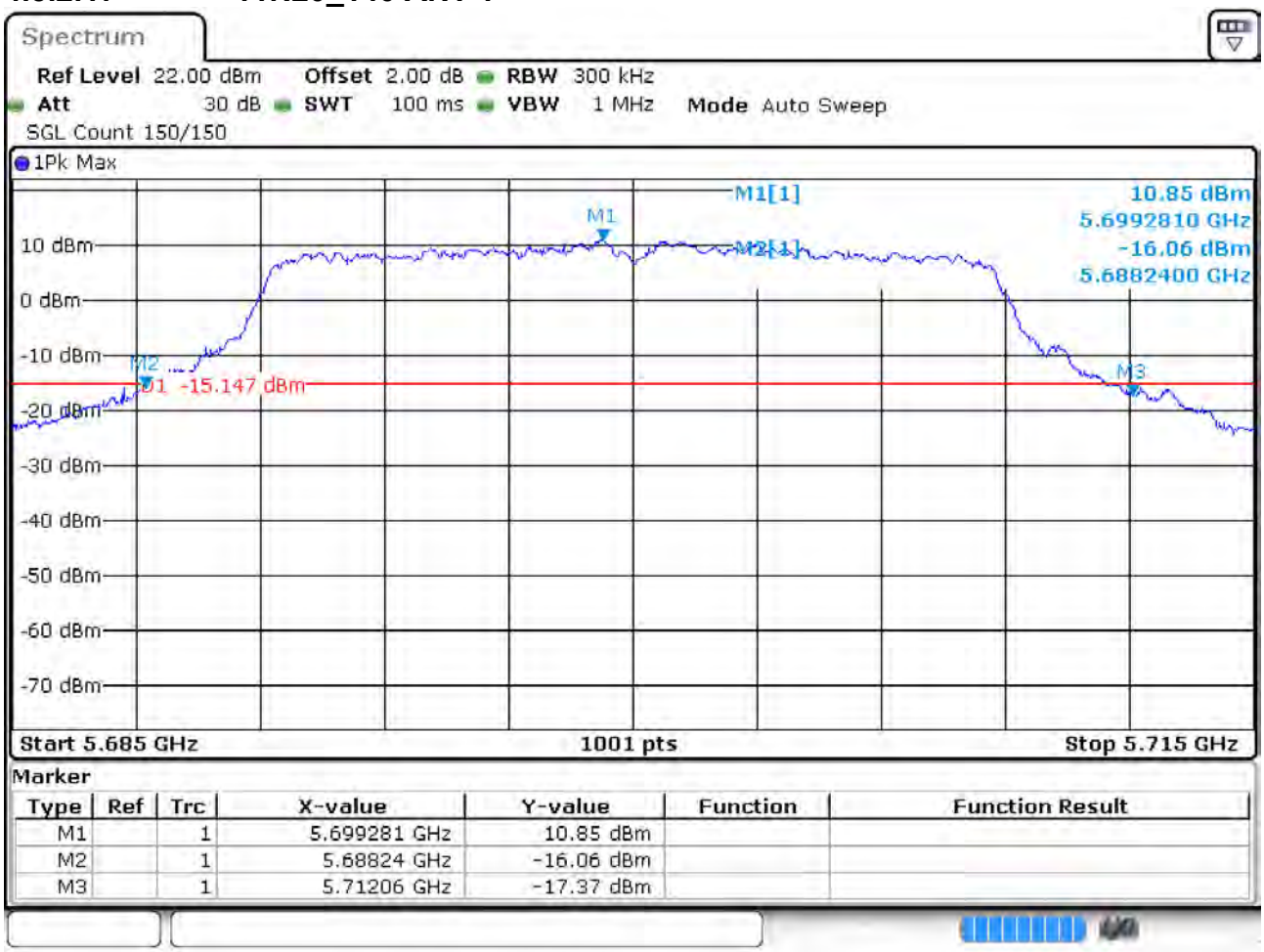
4.5.2.17 11N20_140 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.699281 GHz	10.85 dBm		
M2		1	5.68824 GHz	-16.06 dBm		
M3		1	5.71206 GHz	-17.37 dBm		

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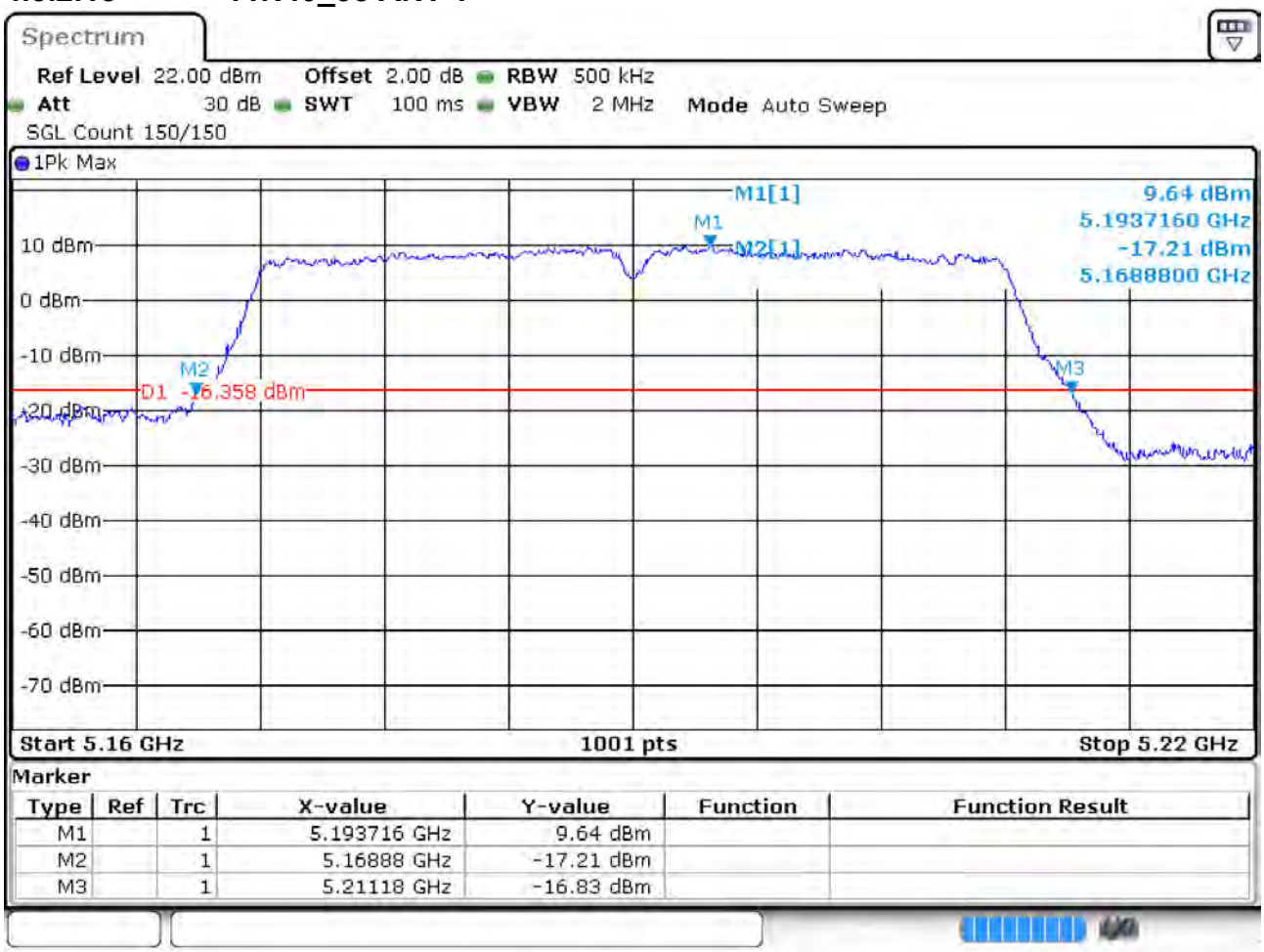
4.5.2.18 11N40_38 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.193716 GHz	9.64 dBm		
M2		1	5.16888 GHz	-17.21 dBm		
M3		1	5.21118 GHz	-16.83 dBm		

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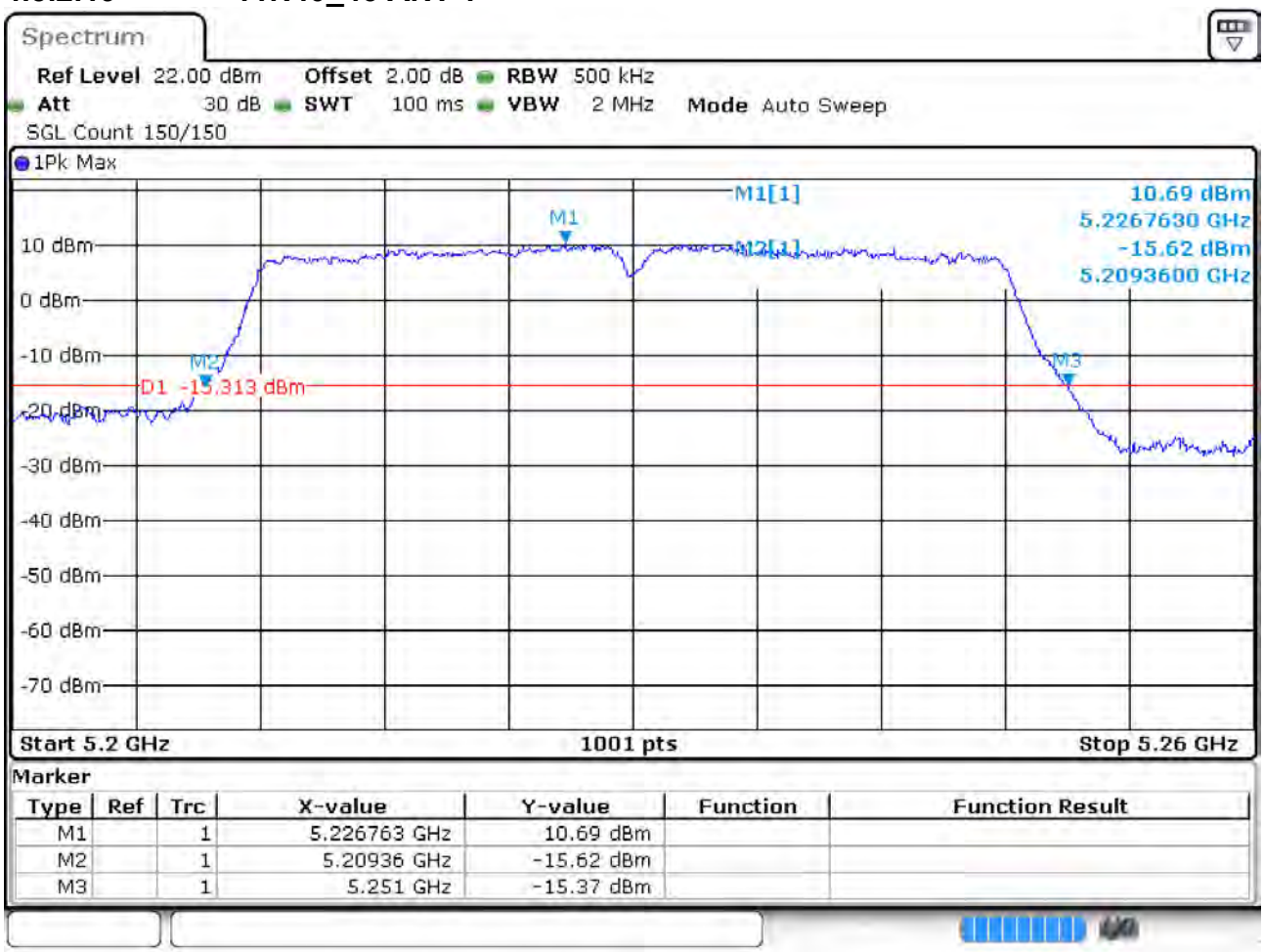
4.5.2.19 11N40_46 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.226763 GHz	10.69 dBm		
M2		1	5.20936 GHz	-15.62 dBm		
M3		1	5.251 GHz	-15.37 dBm		

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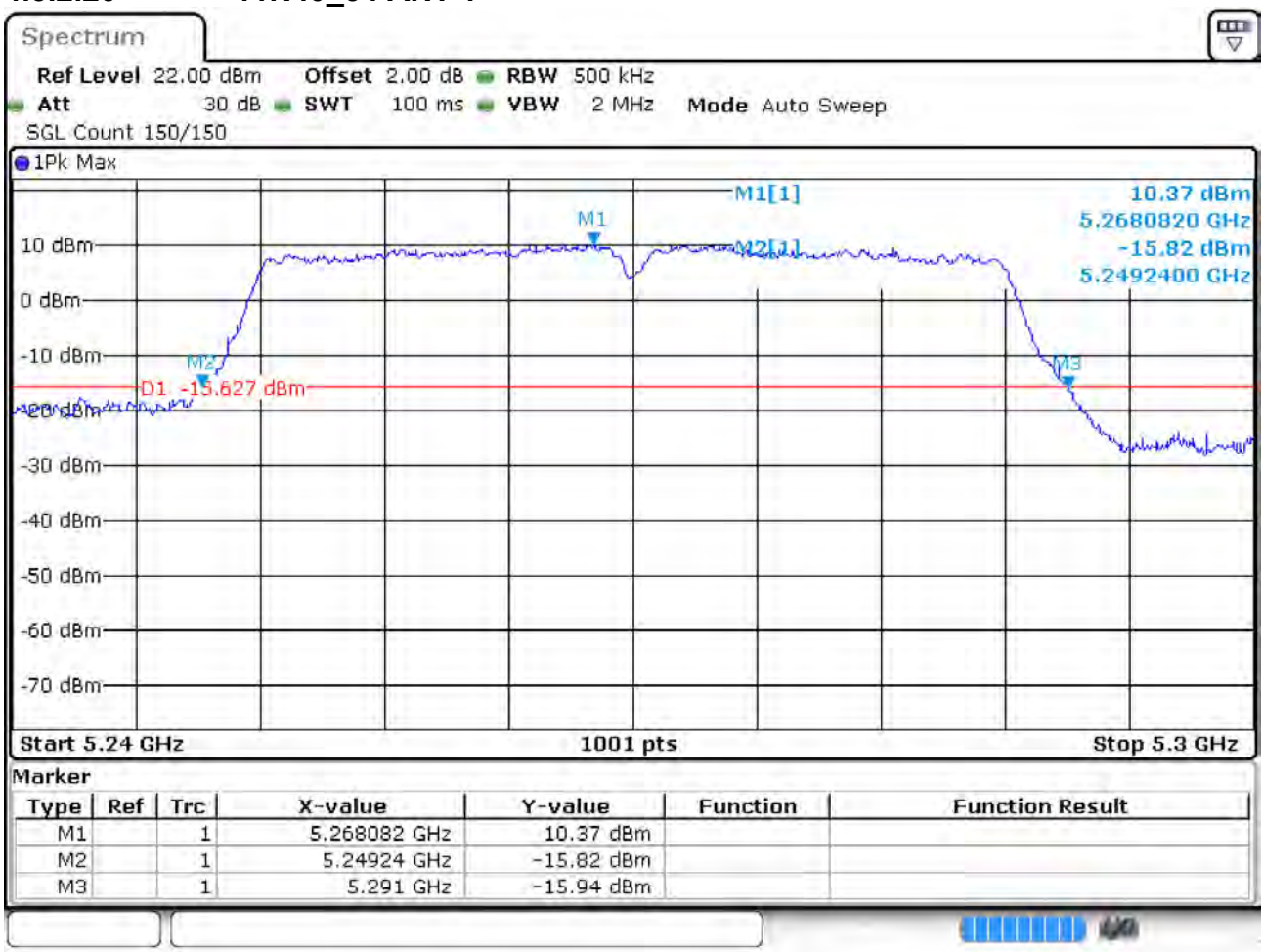
4.5.2.20 11N40_54 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.268082 GHz	10.37 dBm		
M2		1	5.24924 GHz	-15.82 dBm		
M3		1	5.291 GHz	-15.94 dBm		

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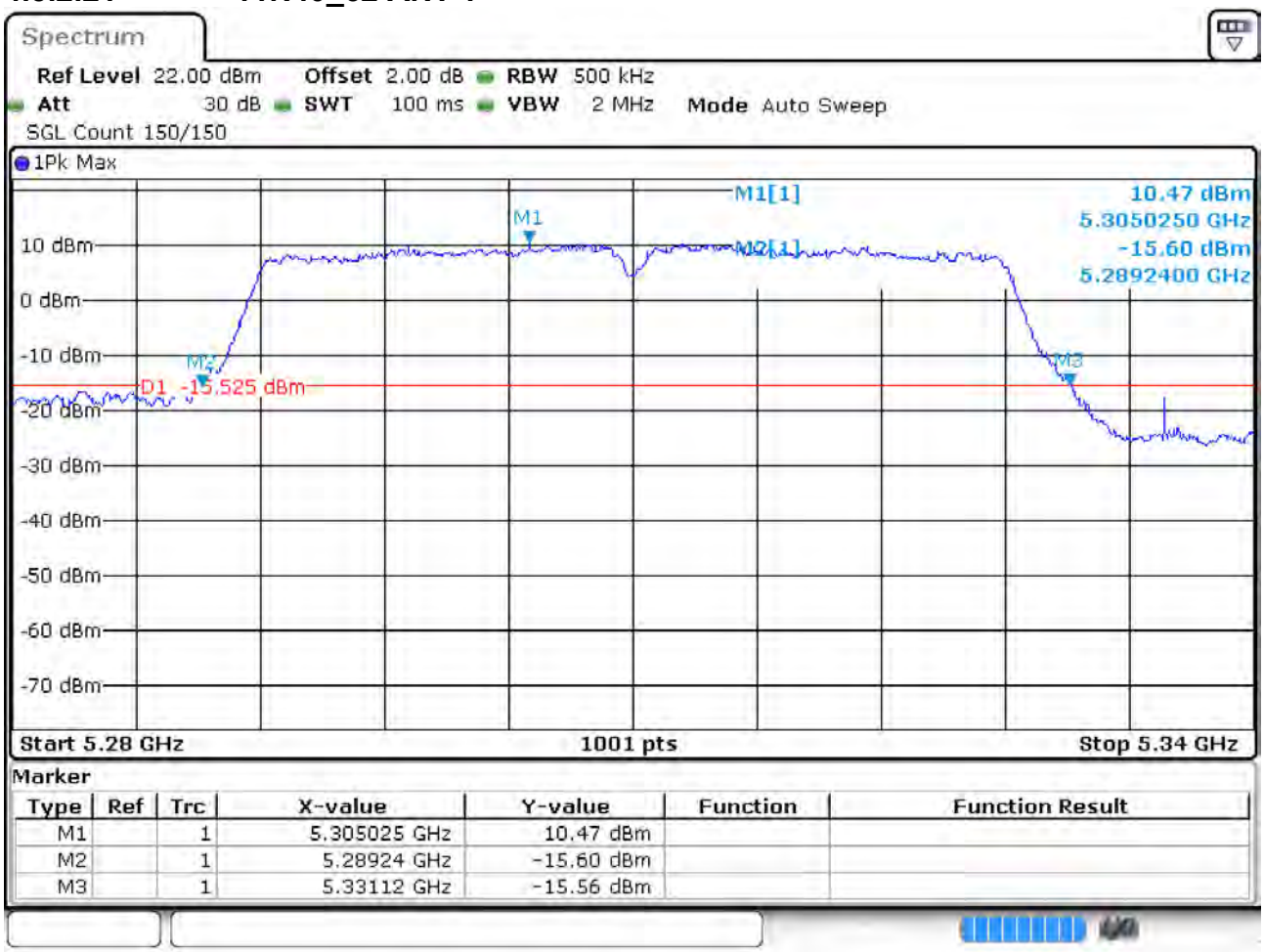
4.5.2.21 11N40_62 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.305025 GHz	10.47 dBm		
M2		1	5.28924 GHz	-15.60 dBm		
M3		1	5.33112 GHz	-15.56 dBm		

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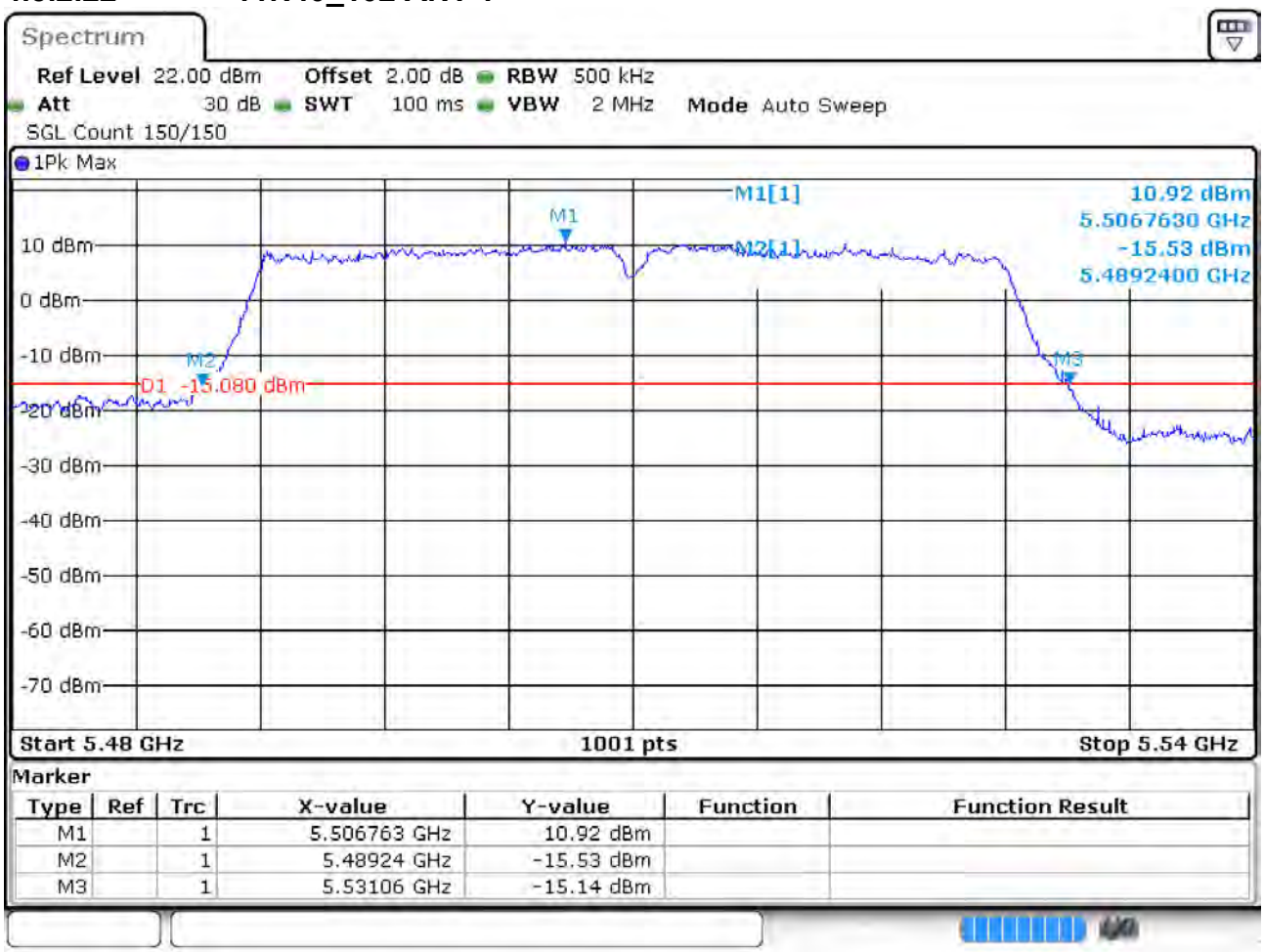
4.5.2.22 11N40_102 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.506763 GHz	10.92 dBm		
M2		1	5.48924 GHz	-15.53 dBm		
M3		1	5.53106 GHz	-15.14 dBm		

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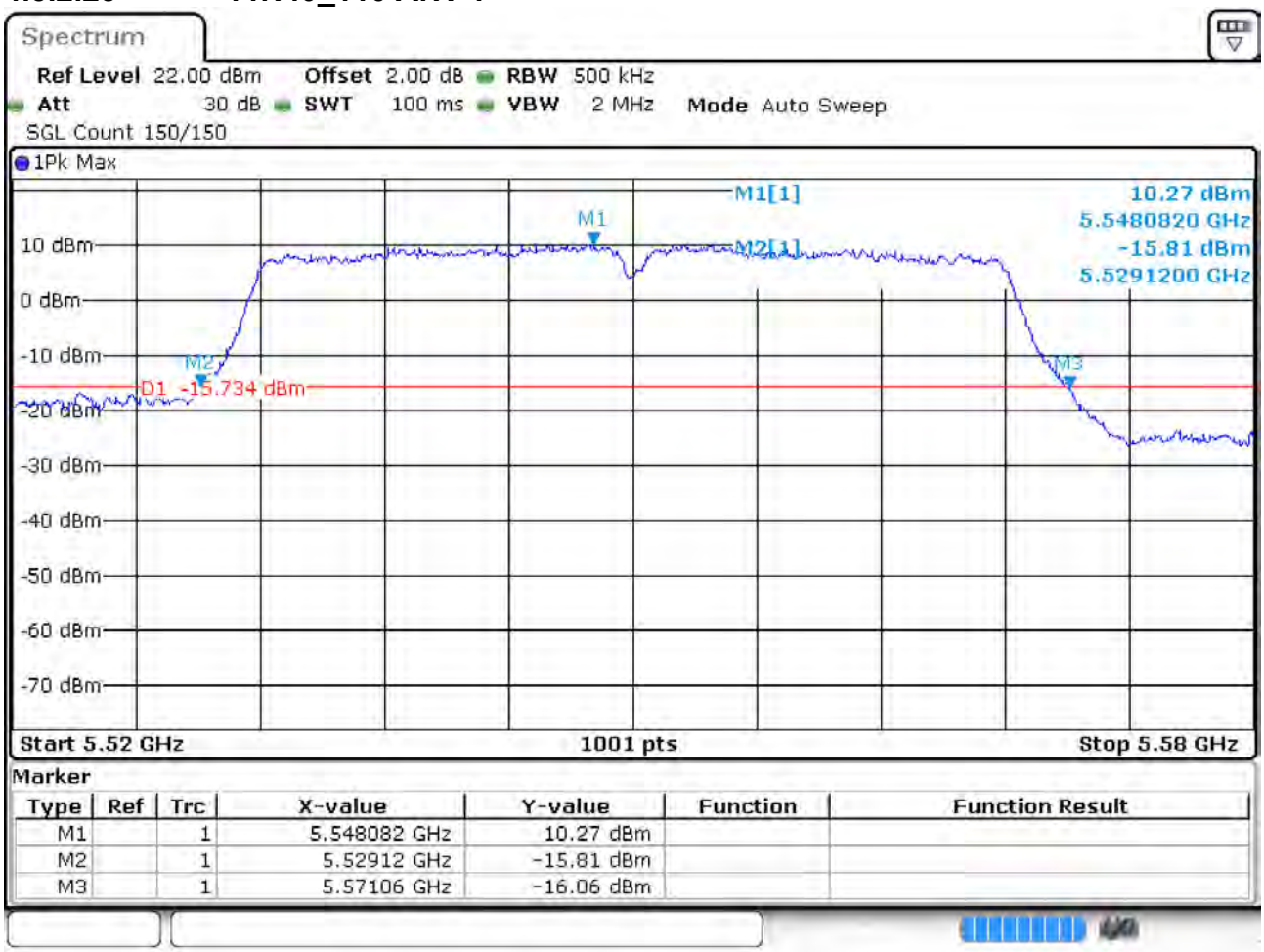
4.5.2.23 11N40_110 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.548082 GHz	10.27 dBm		
M2		1	5.52912 GHz	-15.81 dBm		
M3		1	5.57106 GHz	-16.06 dBm		

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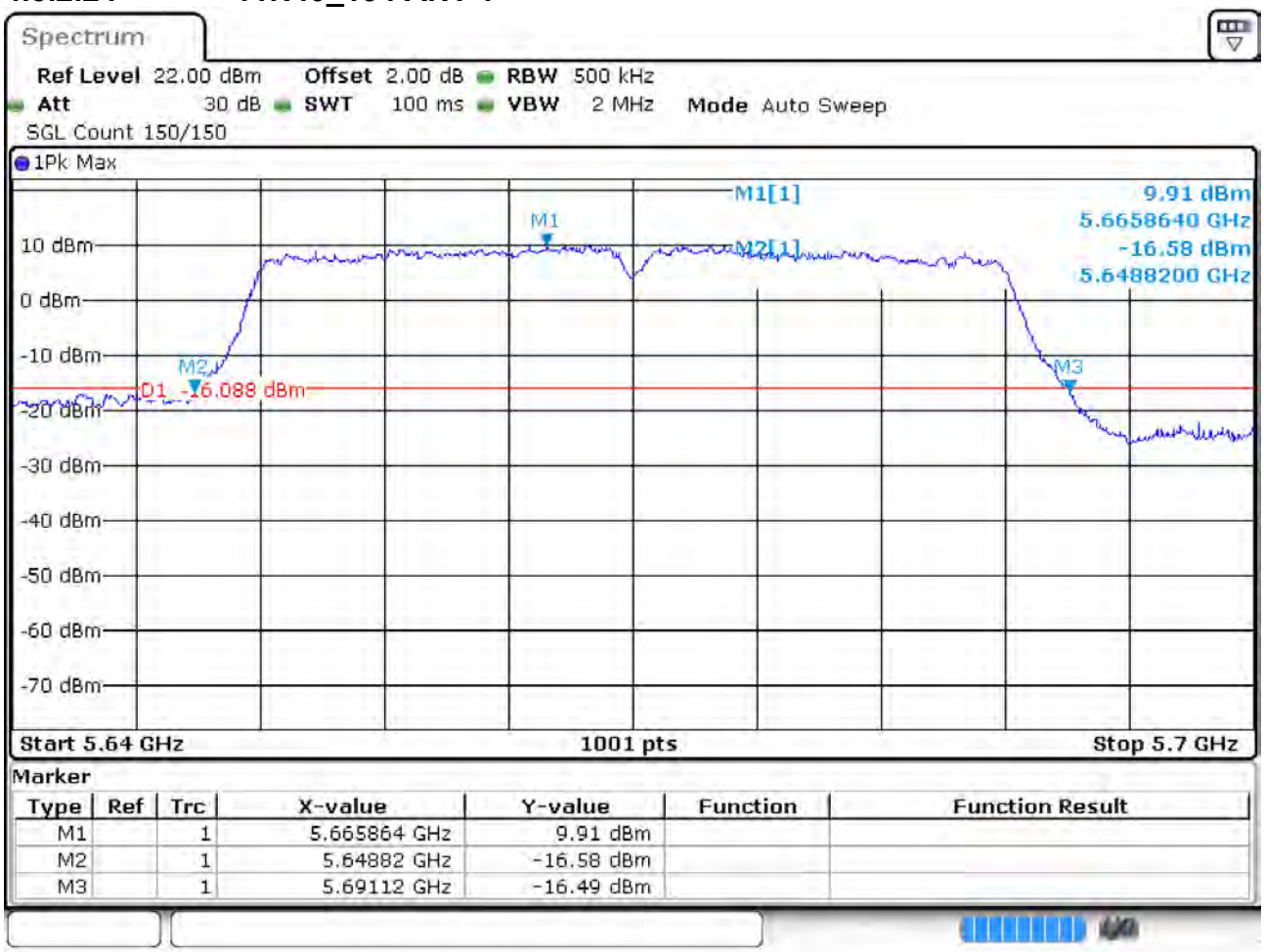
4.5.2.24 11N40_134 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.665864 GHz	9.91 dBm		
M2		1	5.64882 GHz	-16.58 dBm		
M3		1	5.69112 GHz	-16.49 dBm		

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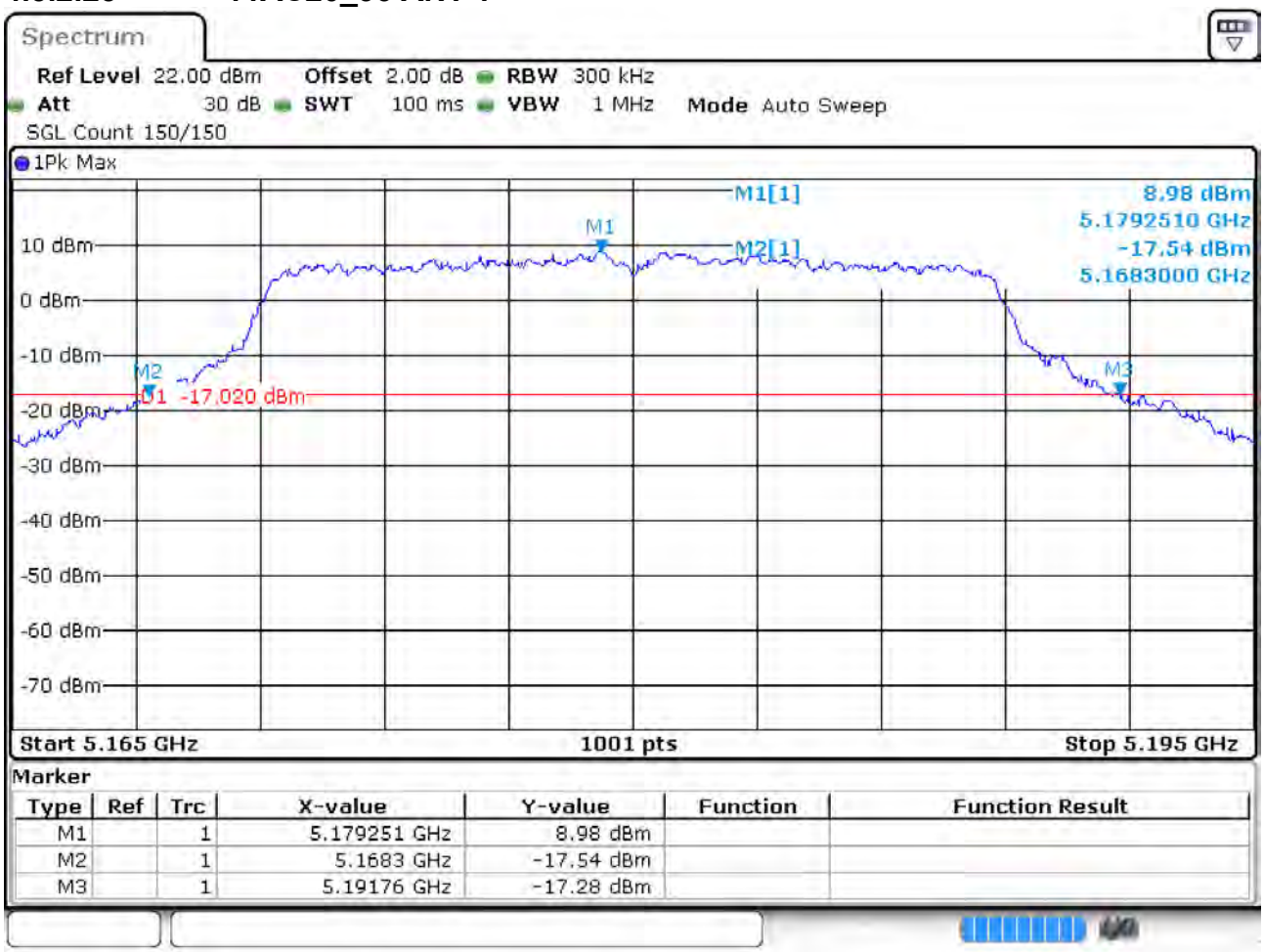
4.5.2.25 11AC20_36 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.179251 GHz	8.98 dBm		
M2		1	5.1683 GHz	-17.54 dBm		
M3		1	5.19176 GHz	-17.28 dBm		

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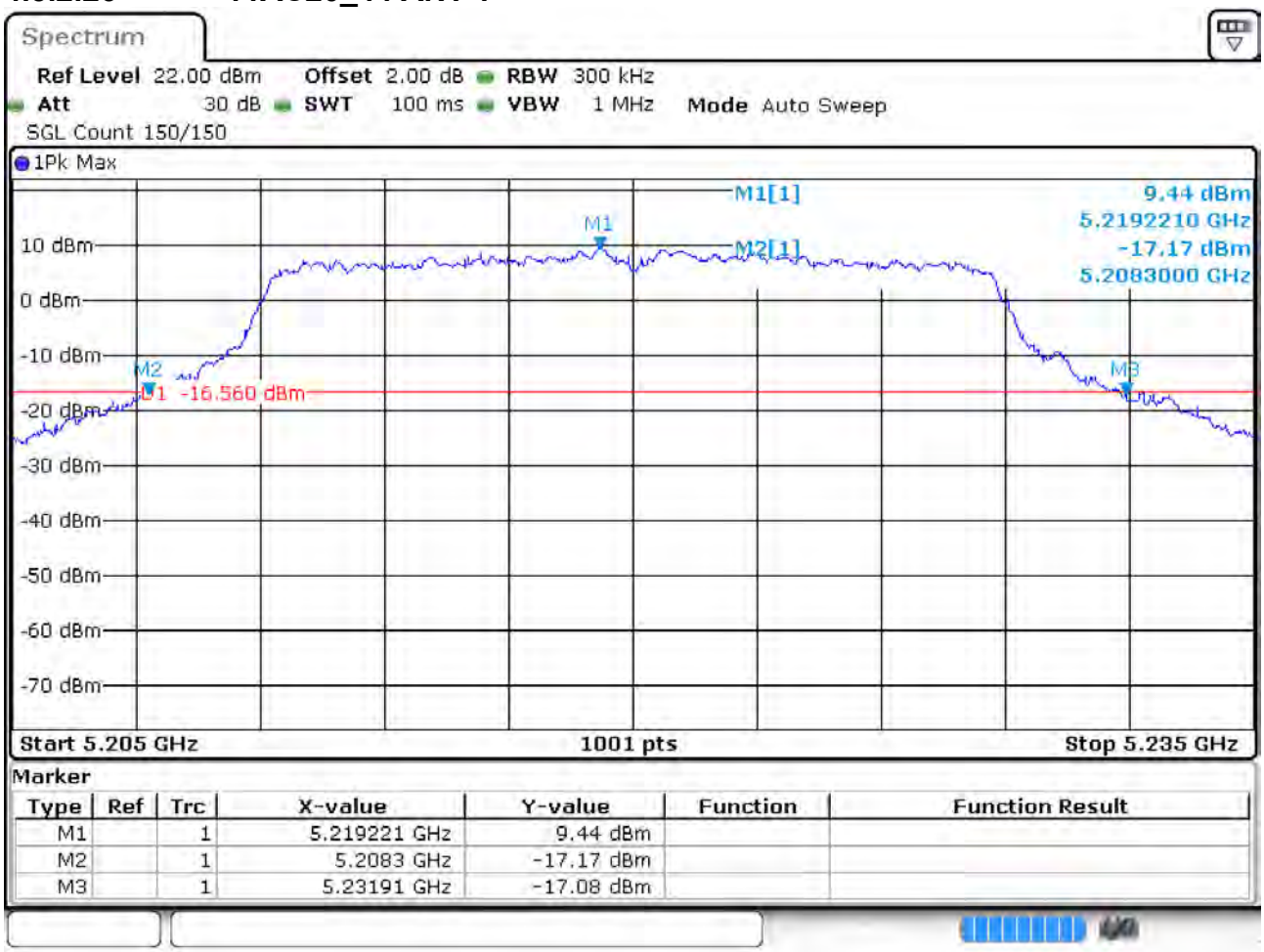
4.5.2.26 11AC20_44 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.219221 GHz	9.44 dBm		
M2		1	5.2083 GHz	-17.17 dBm		
M3		1	5.23191 GHz	-17.08 dBm		

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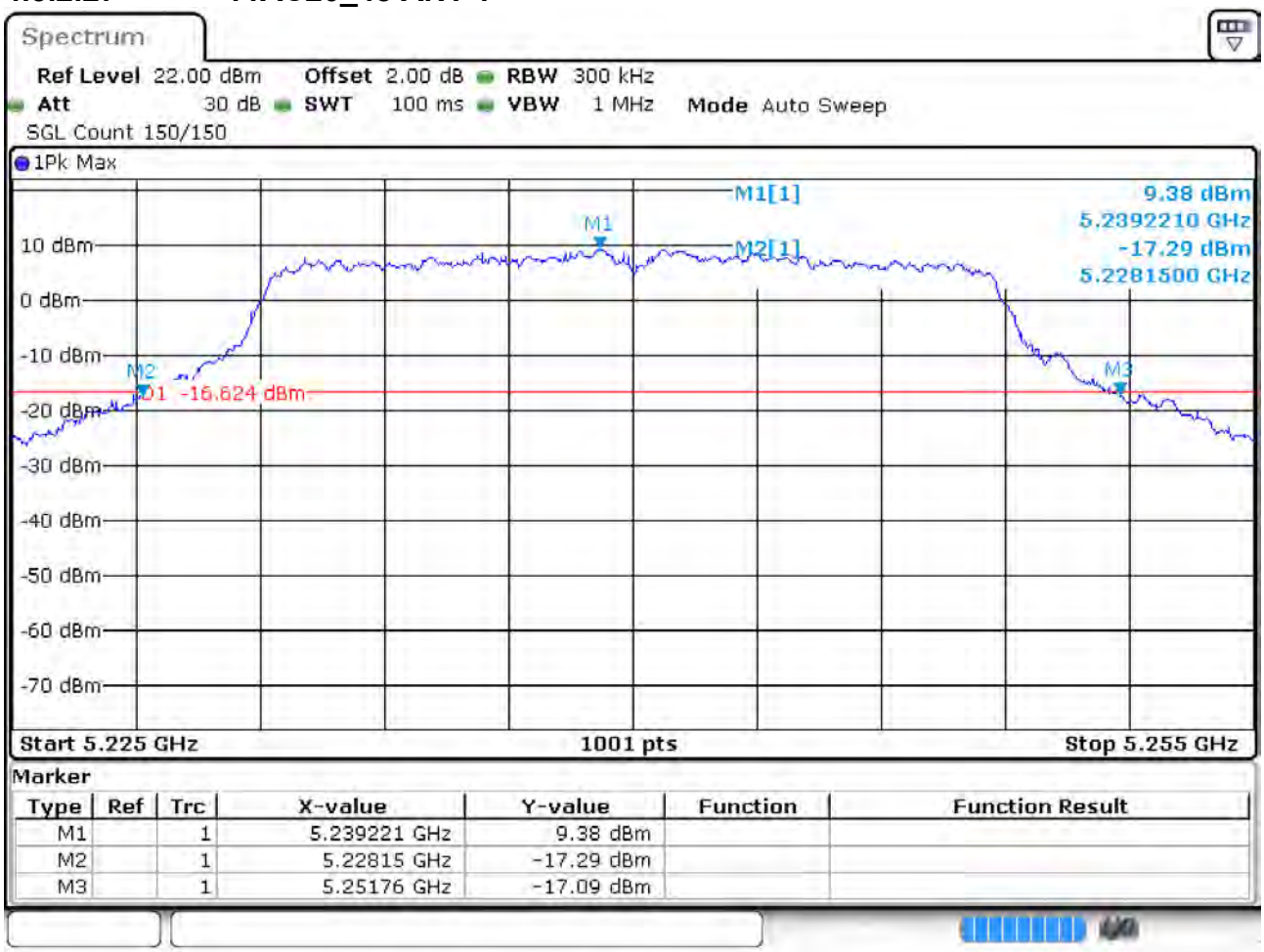
4.5.2.27 11AC20_48 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.239221 GHz	9.38 dBm		
M2		1	5.22815 GHz	-17.29 dBm		
M3		1	5.25176 GHz	-17.09 dBm		

Date: 13.OCT.2020 14:50:29

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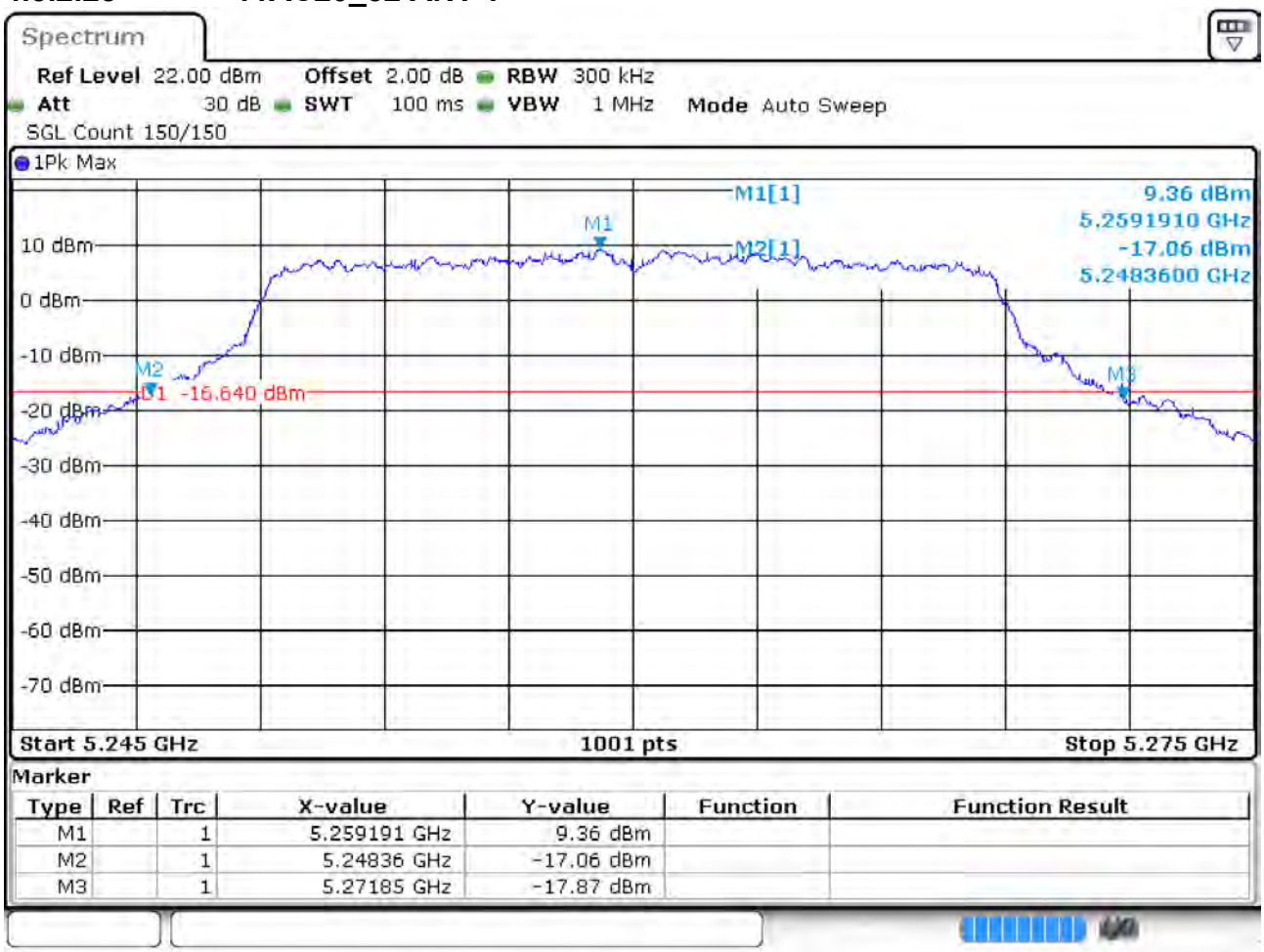
4.5.2.28 11AC20_52 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.259191 GHz	9.36 dBm		
M2		1	5.24836 GHz	-17.06 dBm		
M3		1	5.27185 GHz	-17.87 dBm		

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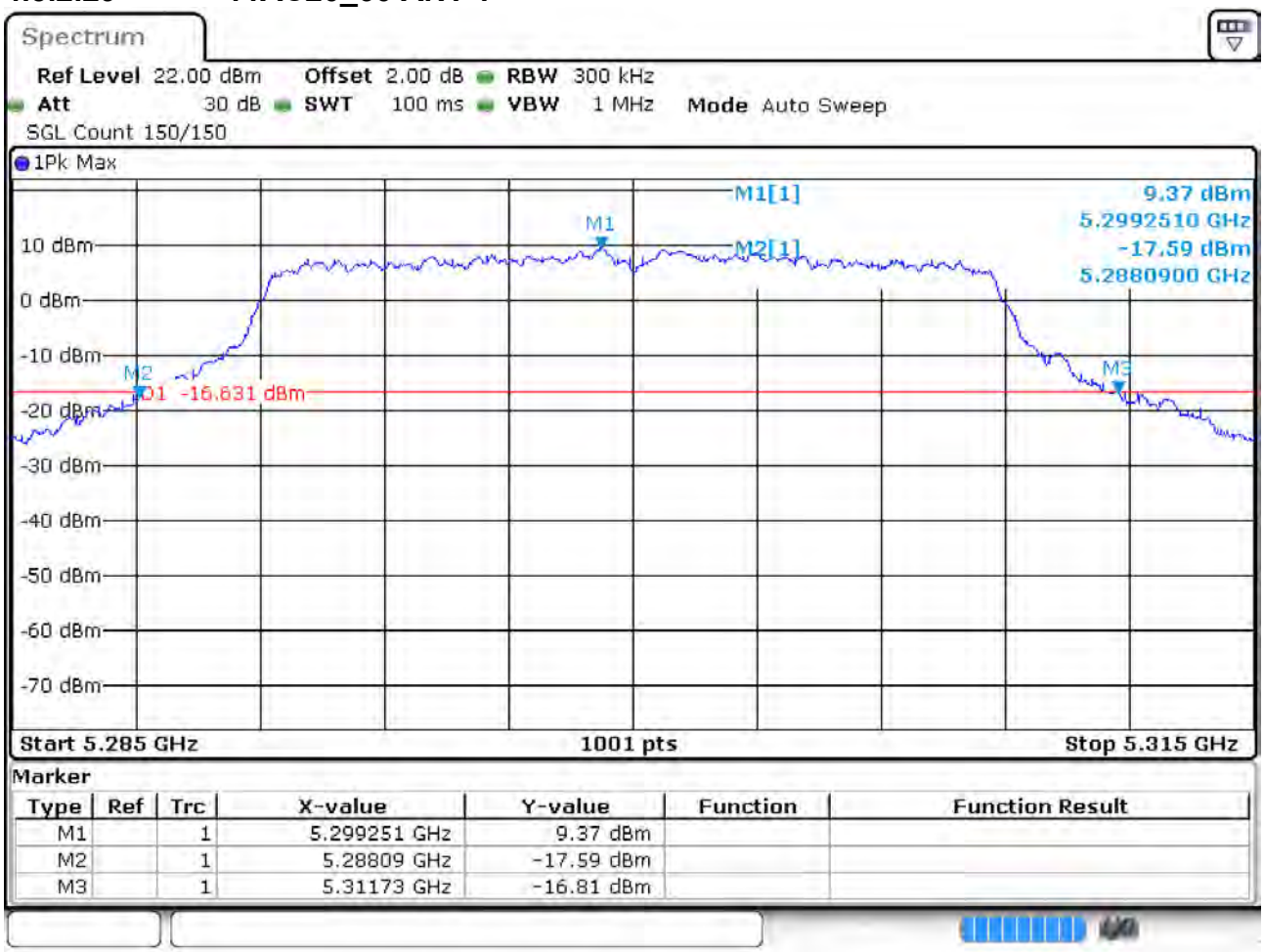
4.5.2.29 11AC20_60 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.299251 GHz	9.37 dBm		
M2		1	5.28809 GHz	-17.59 dBm		
M3		1	5.31173 GHz	-16.81 dBm		

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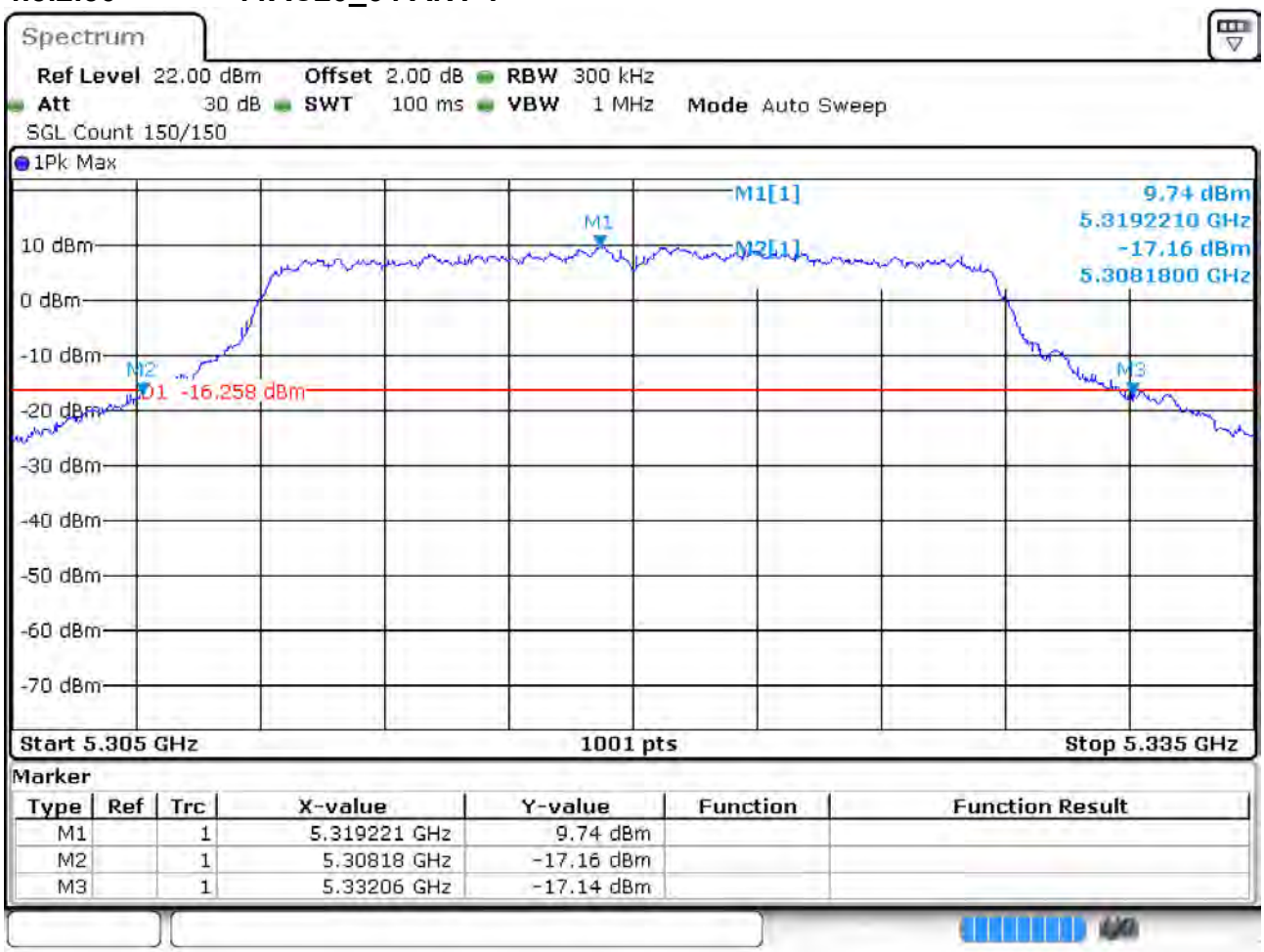
4.5.2.30 11AC20_64 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.319221 GHz	9.74 dBm		
M2		1	5.30818 GHz	-17.16 dBm		
M3		1	5.33206 GHz	-17.14 dBm		

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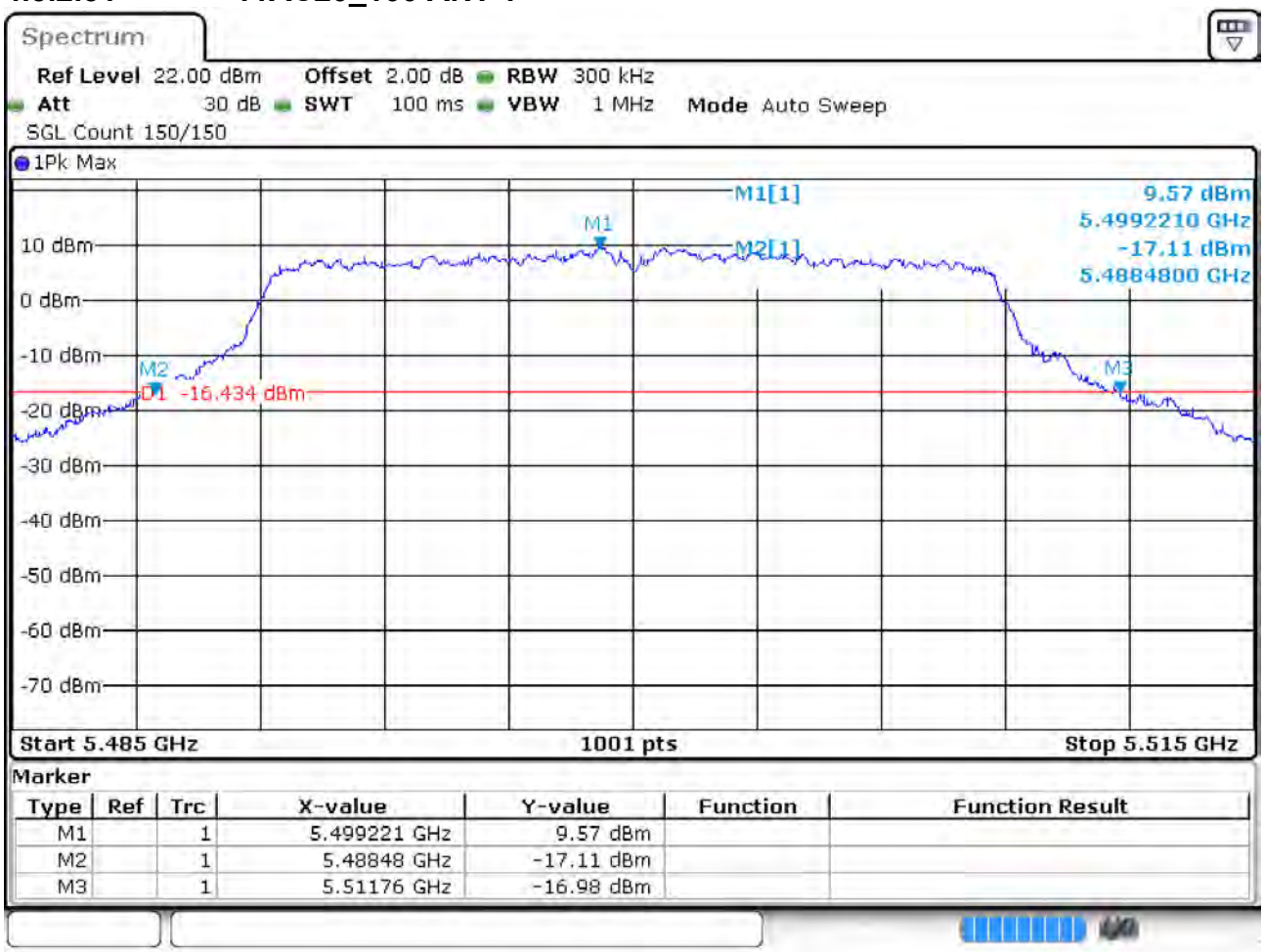
4.5.2.31 11AC20_100 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.499221 GHz	9.57 dBm		
M2		1	5.48848 GHz	-17.11 dBm		
M3		1	5.51176 GHz	-16.98 dBm		

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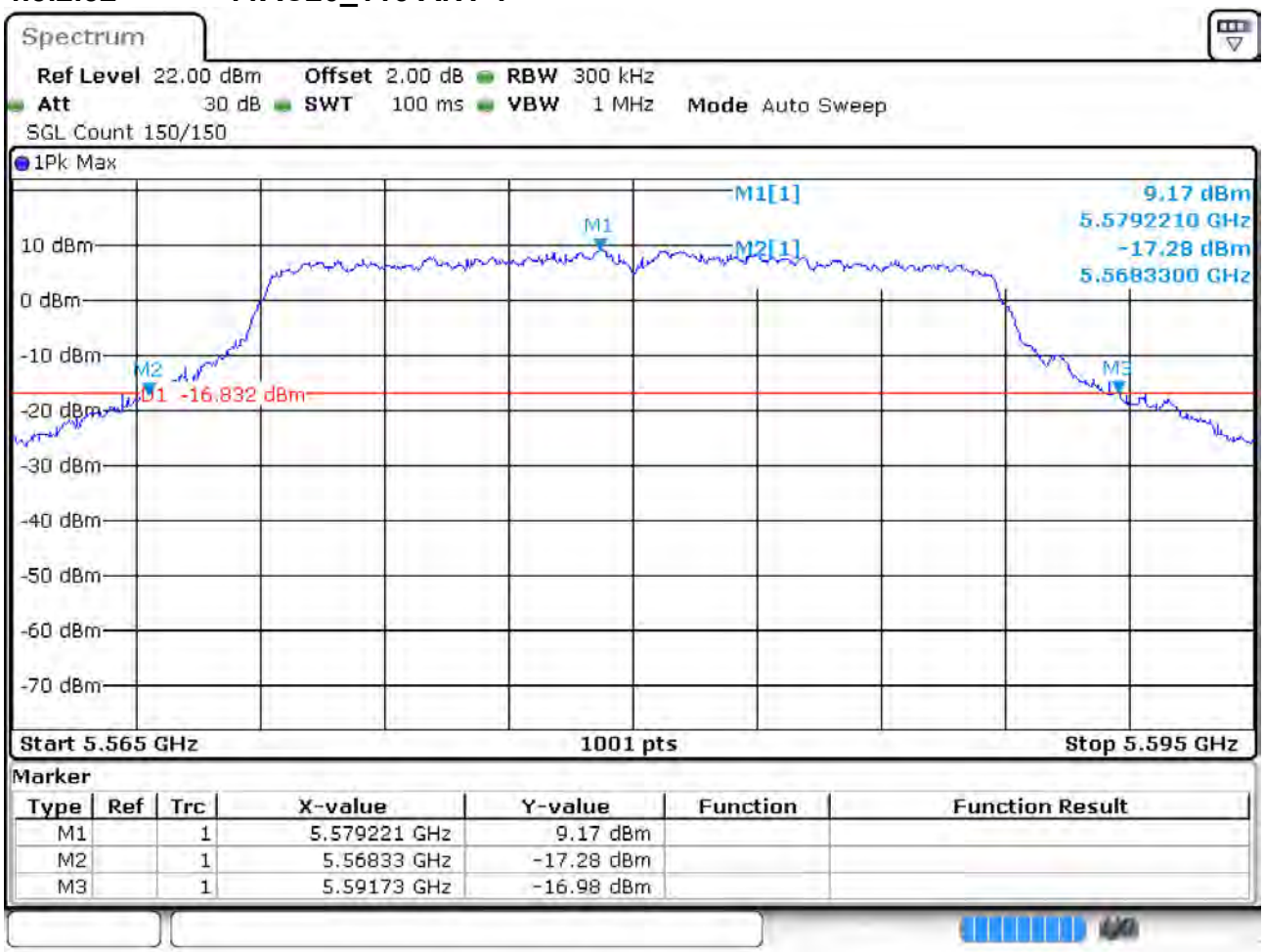
4.5.2.32 11AC20_116 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.579221 GHz	9.17 dBm		
M2		1	5.56833 GHz	-17.28 dBm		
M3		1	5.59173 GHz	-16.98 dBm		

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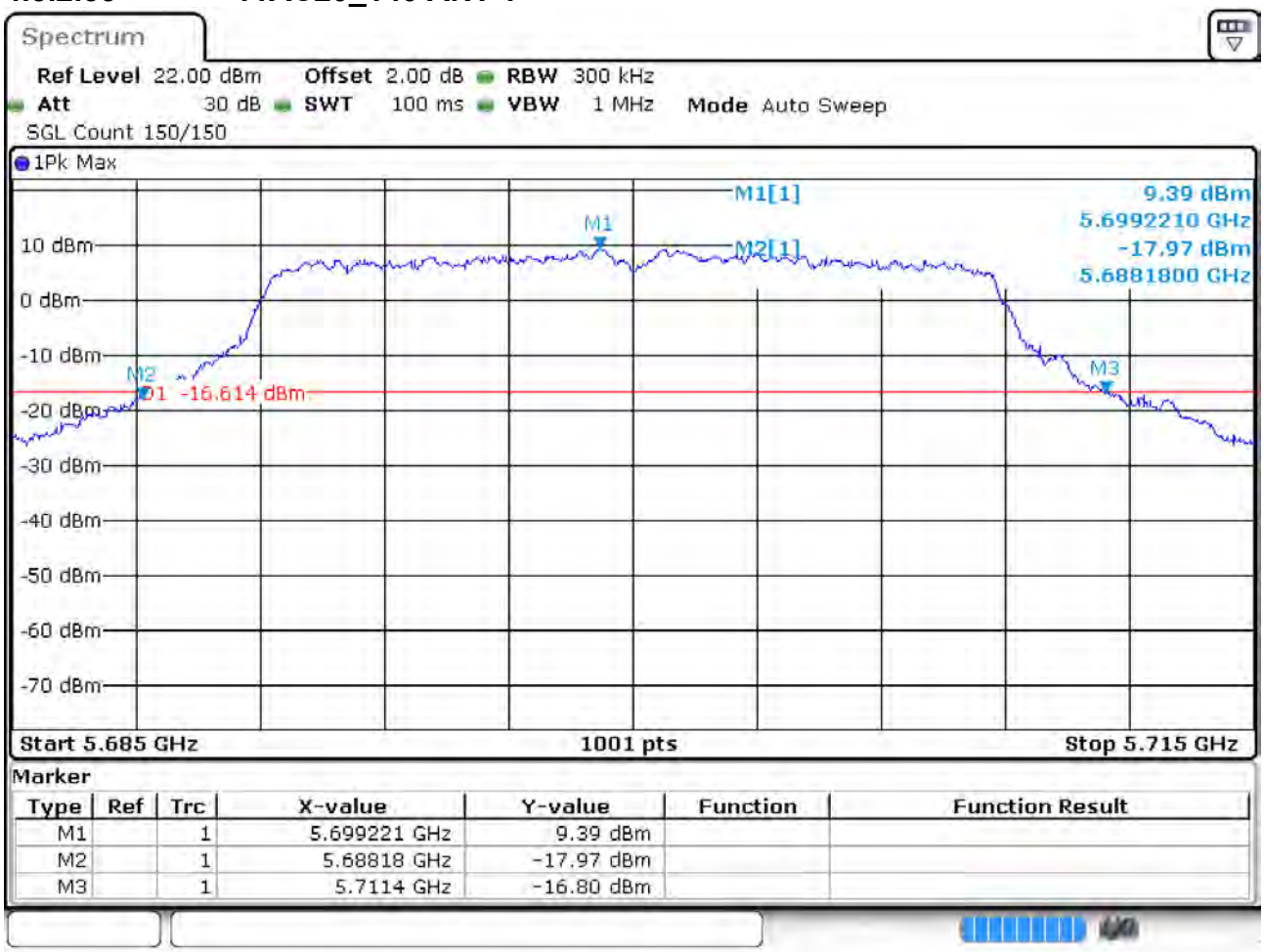
4.5.2.33 11AC20_140 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.699221 GHz	9.39 dBm		
M2		1	5.68818 GHz	-17.97 dBm		
M3		1	5.7114 GHz	-16.80 dBm		

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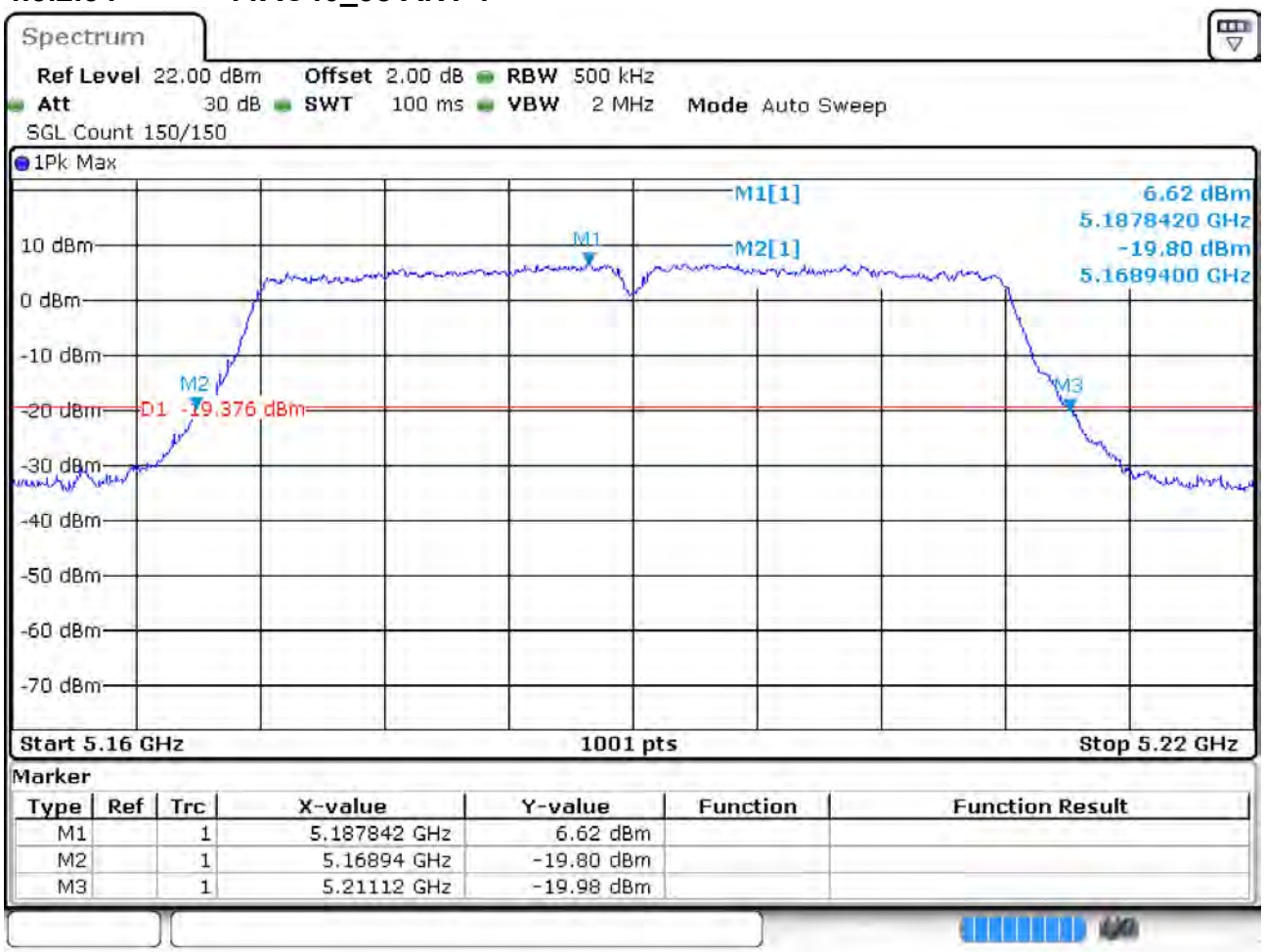
4.5.2.34 11AC40_38 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.187842 GHz	6.62 dBm		
M2		1	5.16894 GHz	-19.80 dBm		
M3		1	5.21112 GHz	-19.98 dBm		

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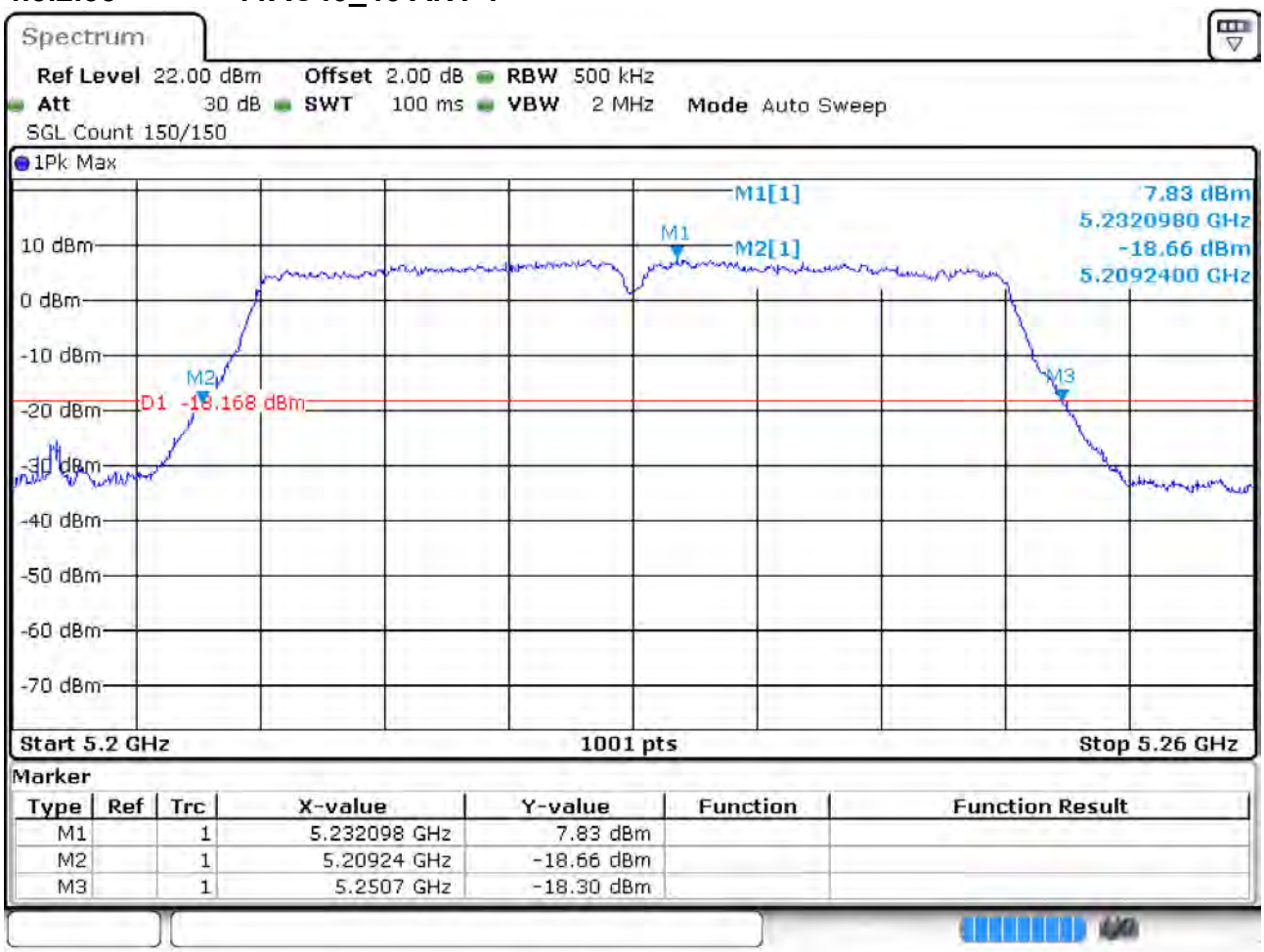
4.5.2.35 11AC40_46 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.232098 GHz	7.83 dBm		
M2		1	5.20924 GHz	-18.66 dBm		
M3		1	5.2507 GHz	-18.30 dBm		

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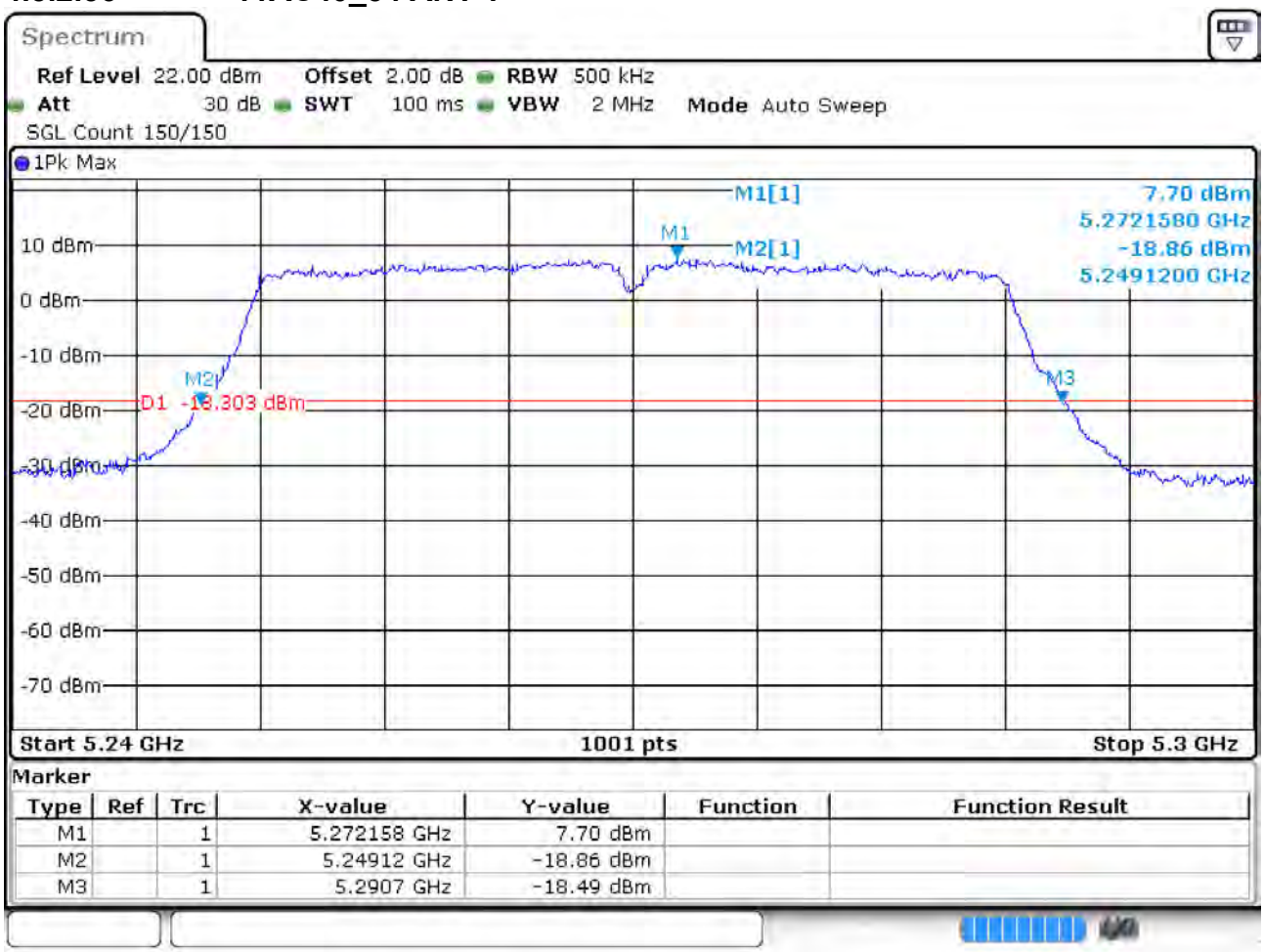
4.5.2.36 11AC40_54 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.272158 GHz	7.70 dBm		
M2		1	5.24912 GHz	-18.86 dBm		
M3		1	5.2907 GHz	-18.49 dBm		

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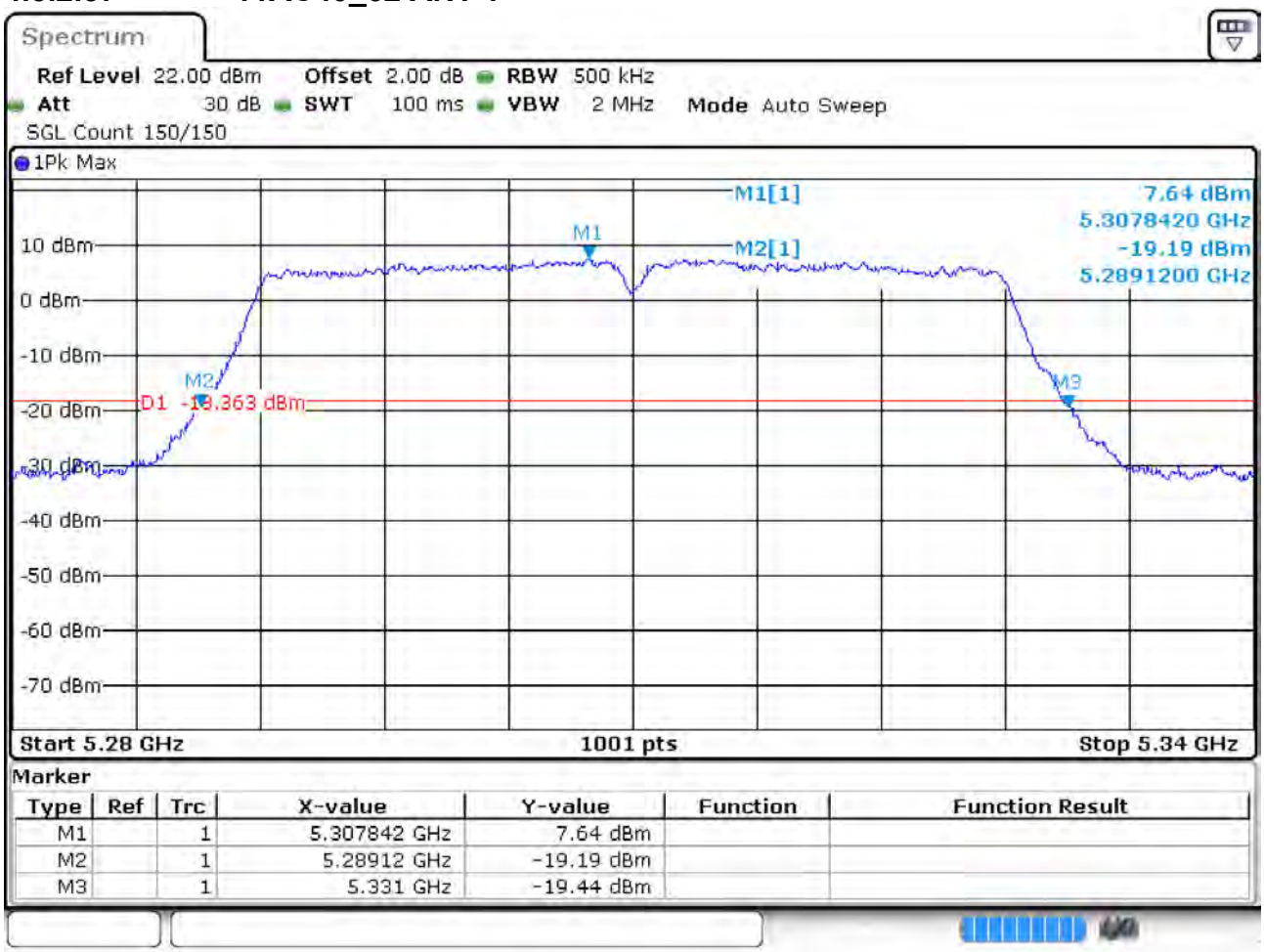
4.5.2.37 11AC40_62 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.307842 GHz	7.64 dBm		
M2		1	5.28912 GHz	-19.19 dBm		
M3		1	5.331 GHz	-19.44 dBm		

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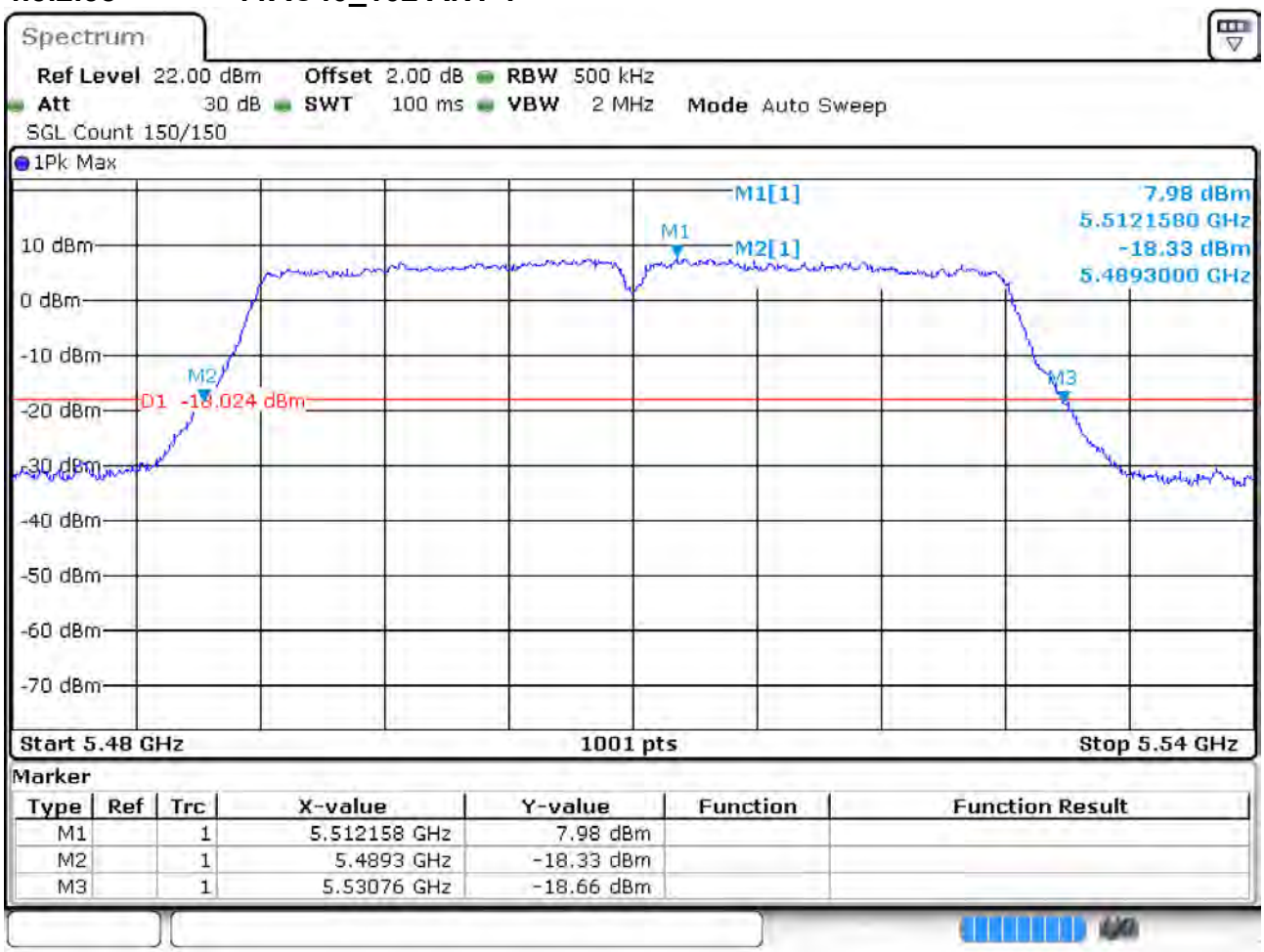
4.5.2.38 11AC40_102 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.512158 GHz	7.98 dBm		
M2		1	5.4893 GHz	-18.33 dBm		
M3		1	5.53076 GHz	-18.66 dBm		

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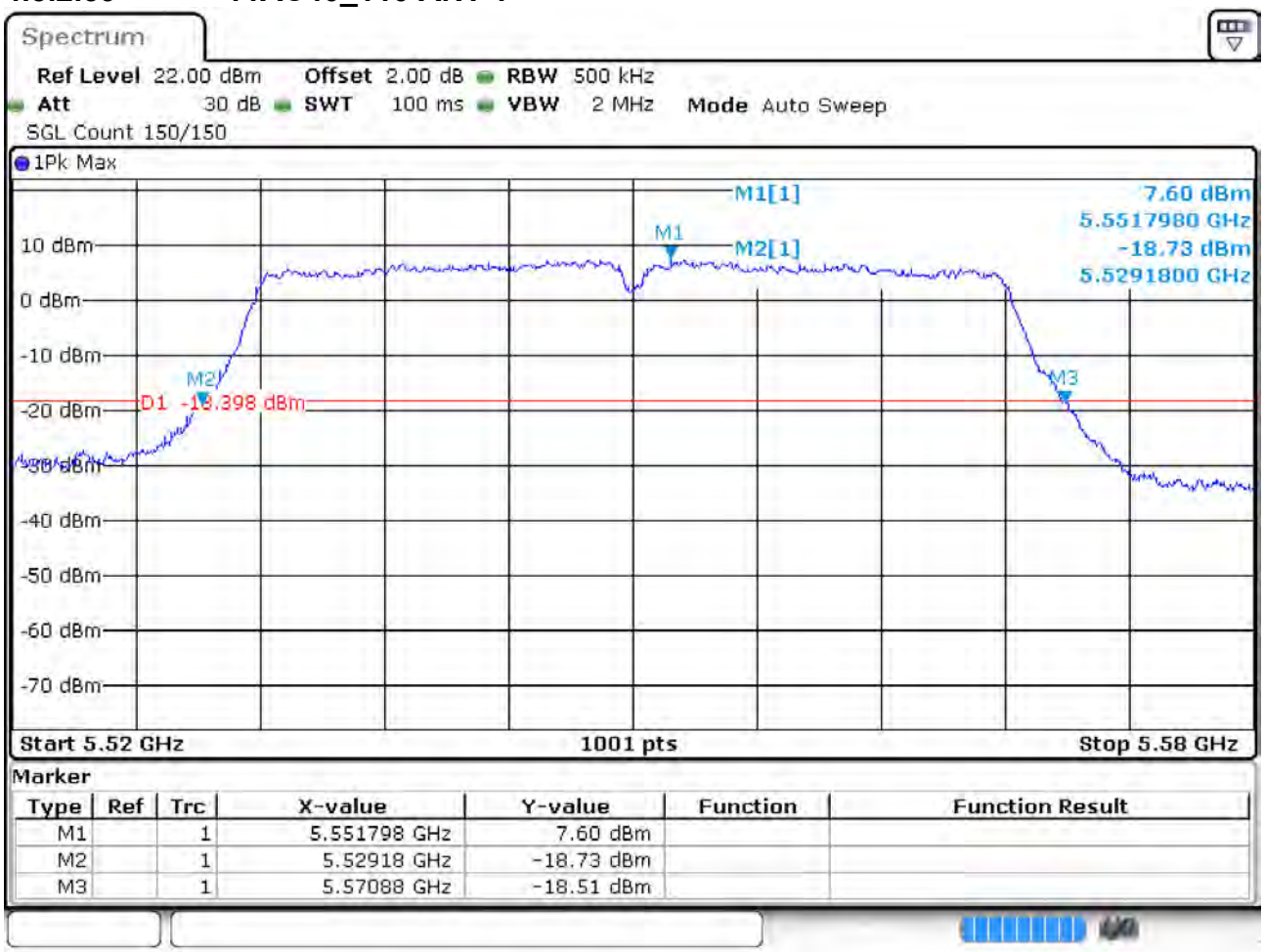
4.5.2.39 11AC40_110 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.551798 GHz	7.60 dBm		
M2		1	5.52918 GHz	-18.73 dBm		
M3		1	5.57088 GHz	-18.51 dBm		

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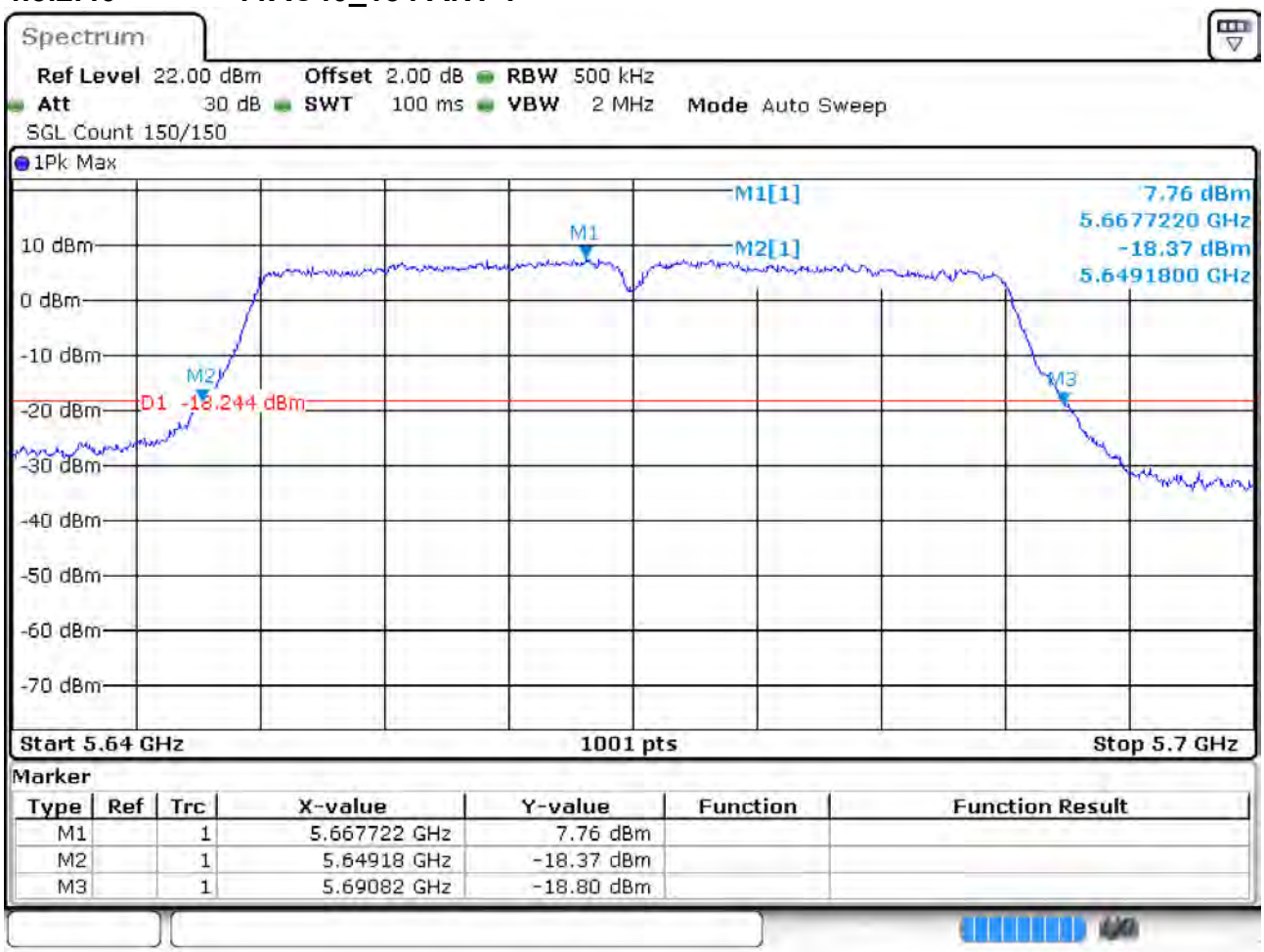
4.5.2.40 11AC40_134 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.667722 GHz	7.76 dBm		
M2		1	5.64918 GHz	-18.37 dBm		
M3		1	5.69082 GHz	-18.80 dBm		

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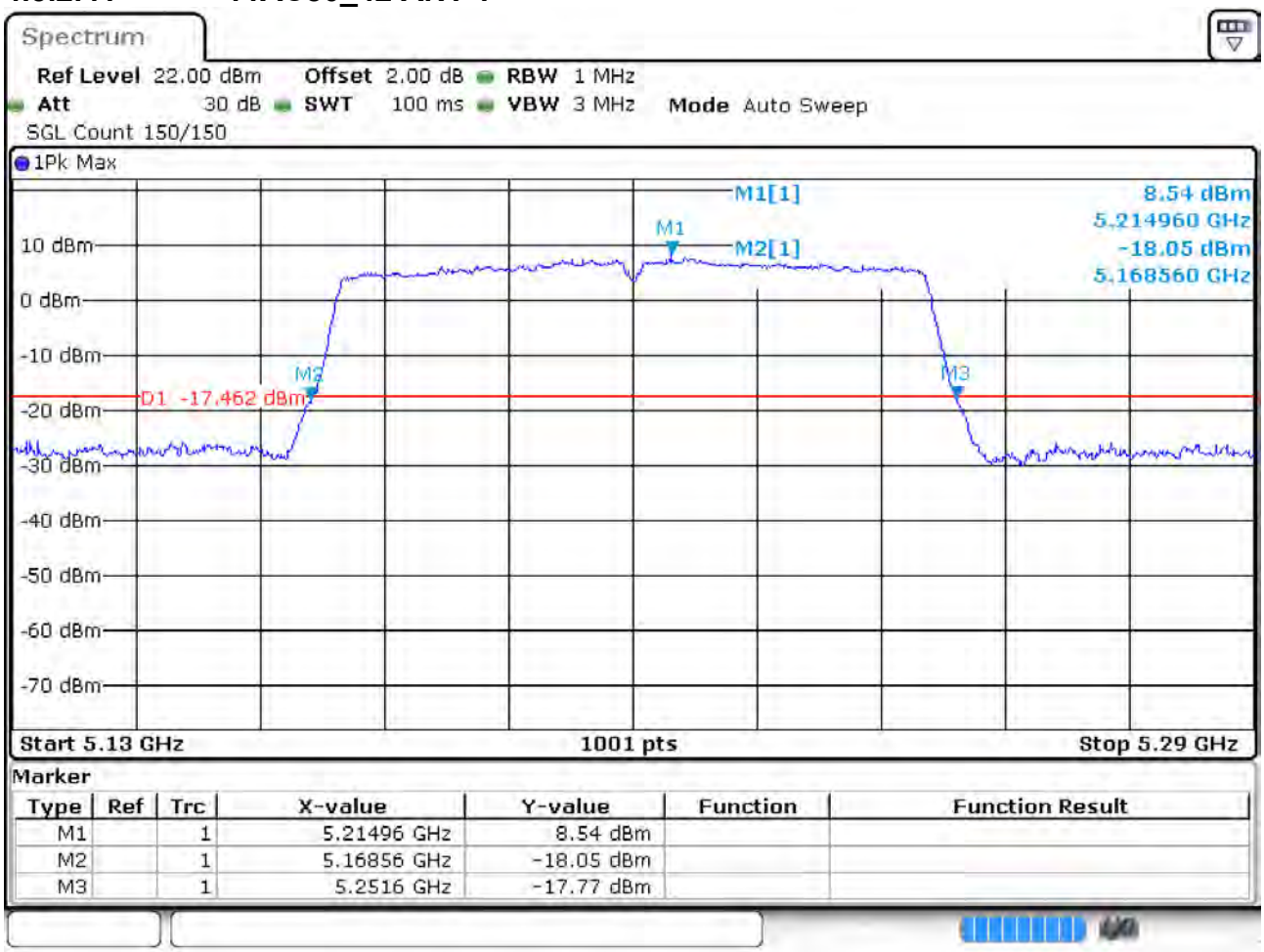
4.5.2.41 11AC80_42 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.21496 GHz	8.54 dBm		
M2		1	5.16856 GHz	-18.05 dBm		
M3		1	5.2516 GHz	-17.77 dBm		

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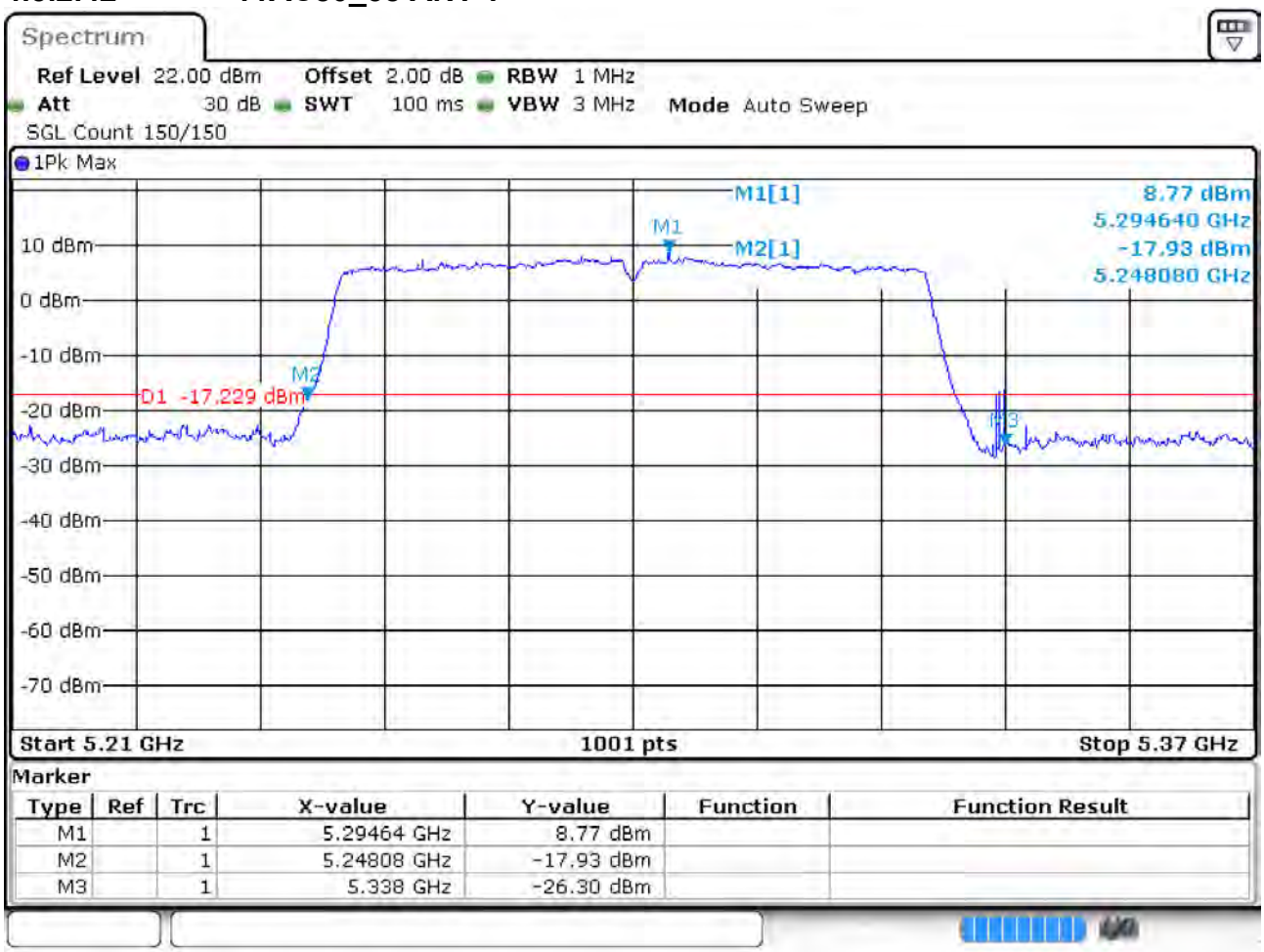
4.5.2.42 11AC80_58 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.29464 GHz	8.77 dBm		
M2		1	5.24808 GHz	-17.93 dBm		
M3		1	5.338 GHz	-26.30 dBm		

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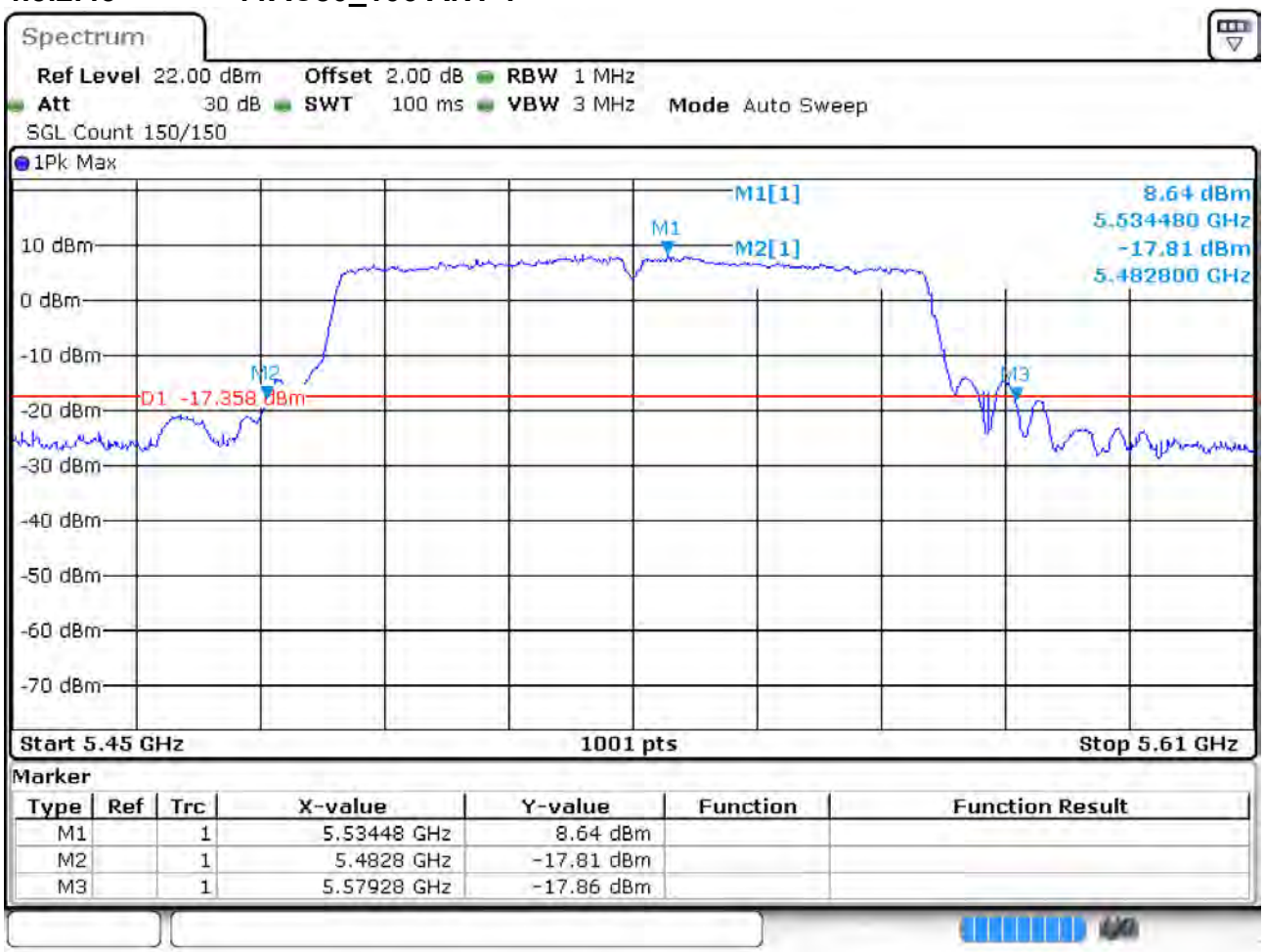
4.5.2.43 11AC80_106 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.53448 GHz	8.64 dBm		
M2		1	5.4828 GHz	-17.81 dBm		
M3		1	5.57928 GHz	-17.86 dBm		

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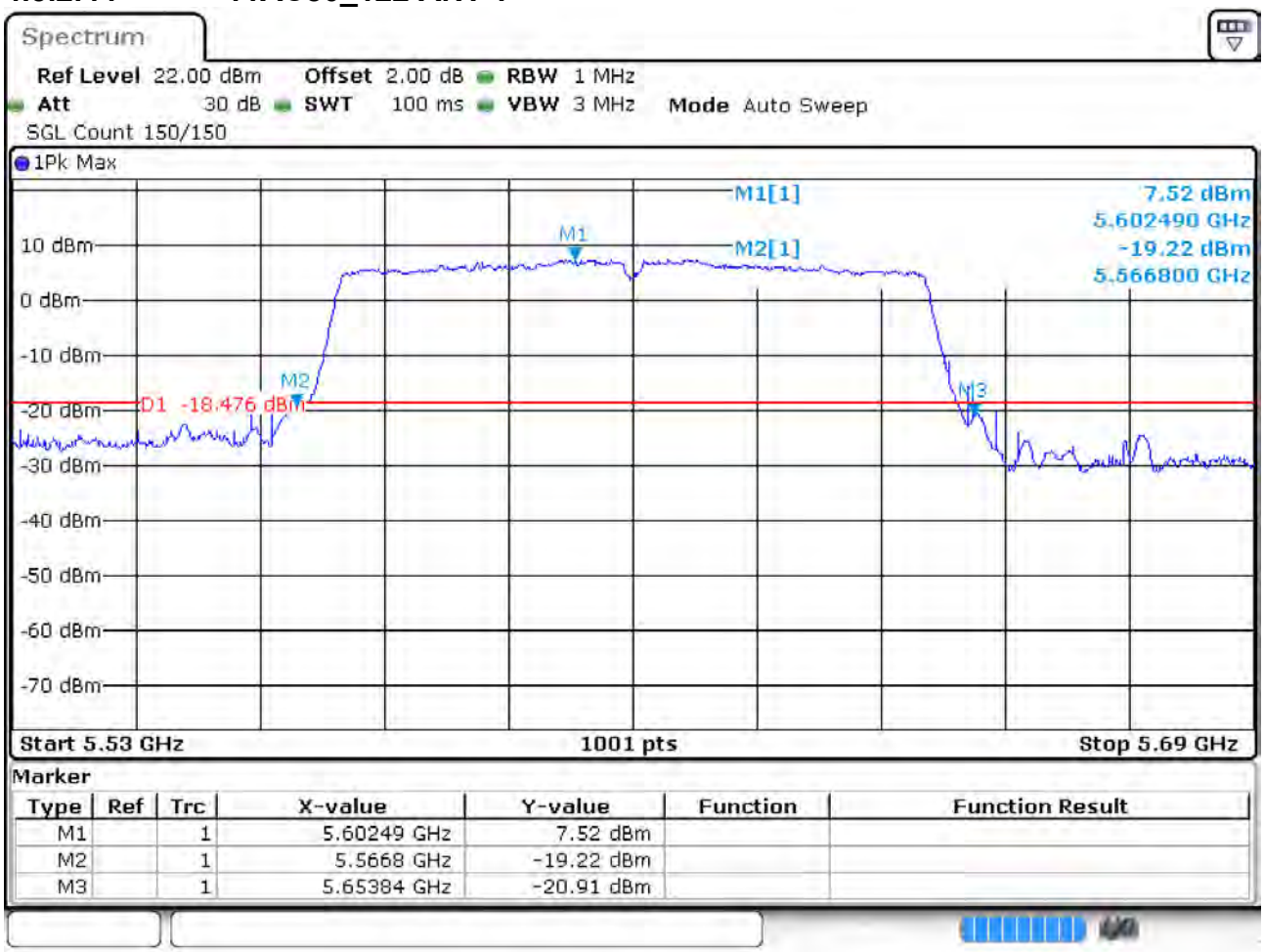
4.5.2.44 11AC80_122 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.60249 GHz	7.52 dBm		
M2		1	5.5668 GHz	-19.22 dBm		
M3		1	5.65384 GHz	-20.91 dBm		

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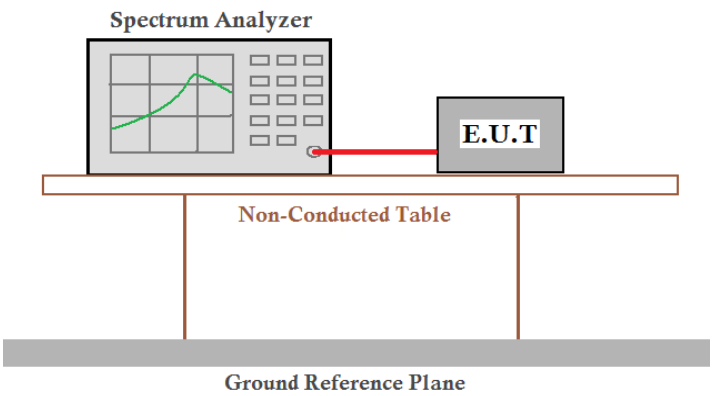
4.6 6dB Emission Bandwidth

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	

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4.6.1 Test Results for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	15.42	PASS
	157	5785	ANT 1	15.51	PASS
	161	5805	ANT 1	15.39	PASS
11N20	149	5745	ANT 1	16.02	PASS
	157	5745	ANT 1	16.02	PASS
	161	5805	ANT 1	16.02	PASS
11N40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC20	149	5745	ANT 1	16.59	PASS
	149	5785	ANT 1	15.51	PASS
	161	5805	ANT 1	16.02	PASS
11AC40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.64	PASS
11AC80	155	5775	ANT 1	75.68	PASS

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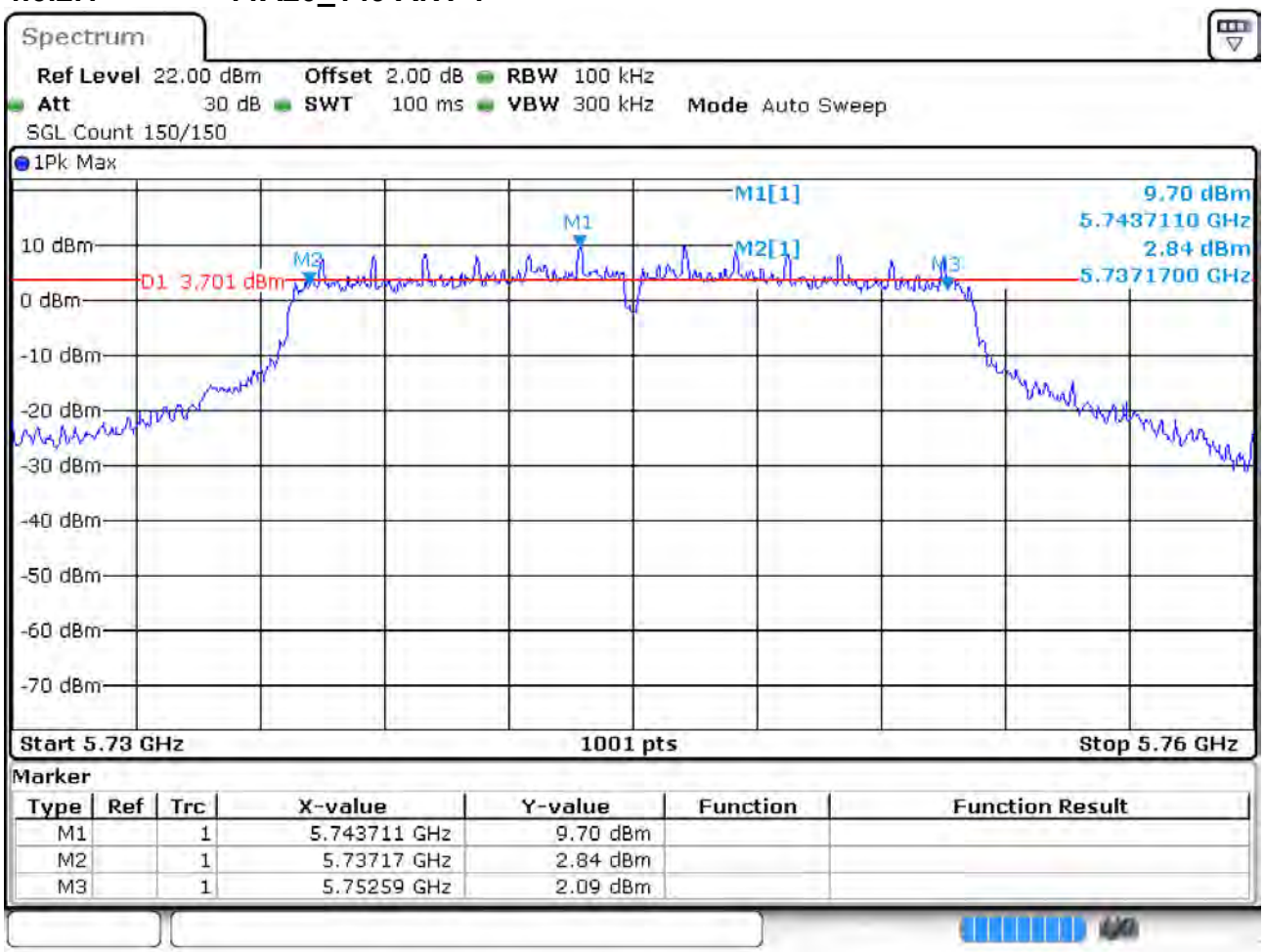
4.6.2 Plots for 6dB Emission Bandwidth

4.6.2.1 11A20_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.743711 GHz	9.70 dBm		
M2		1	5.73717 GHz	2.84 dBm		
M3		1	5.75259 GHz	2.09 dBm		

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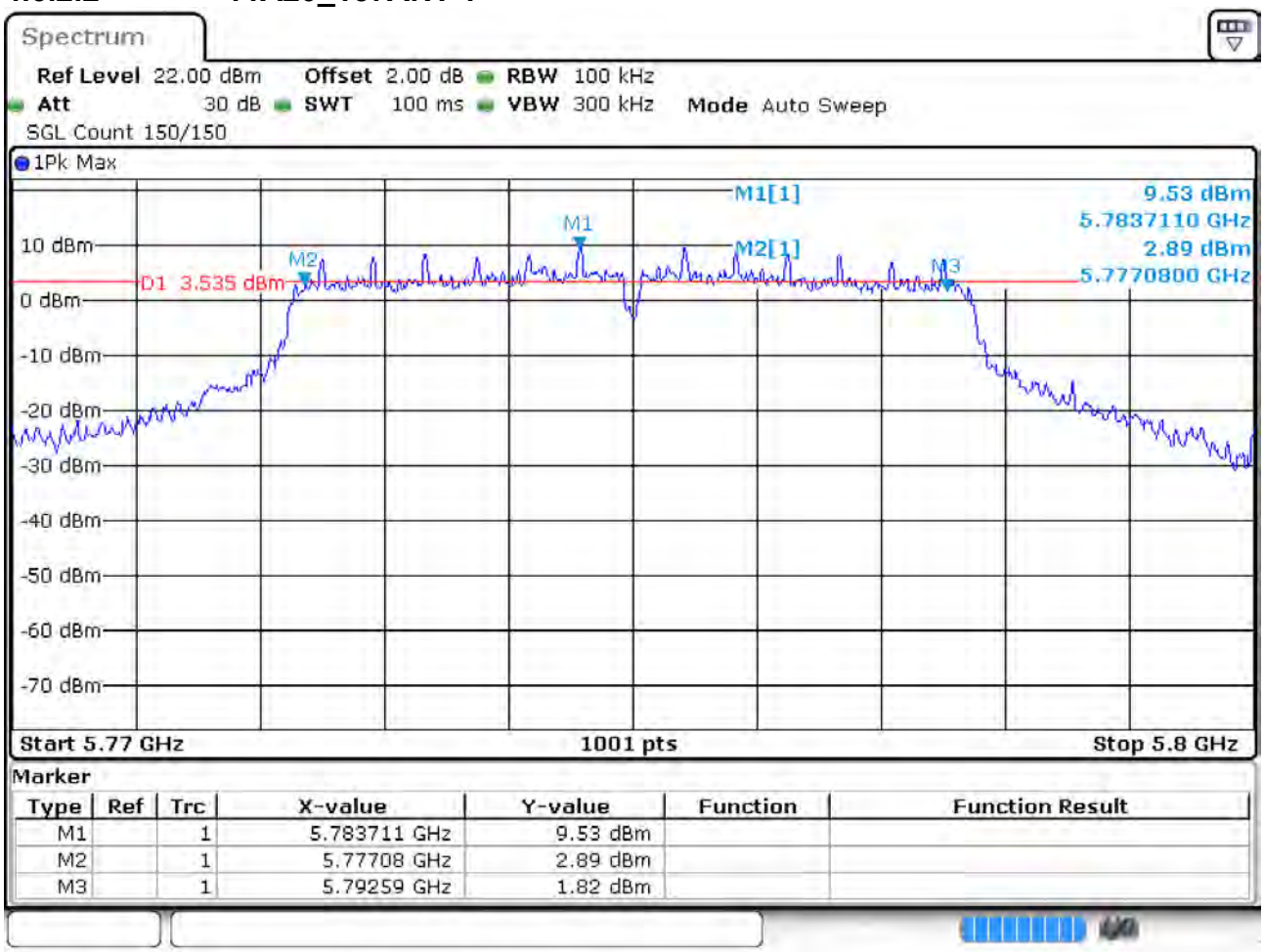
4.6.2.2 11A20_157ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.783711 GHz	9.53 dBm		
M2		1	5.77708 GHz	2.89 dBm		
M3		1	5.79259 GHz	1.82 dBm		

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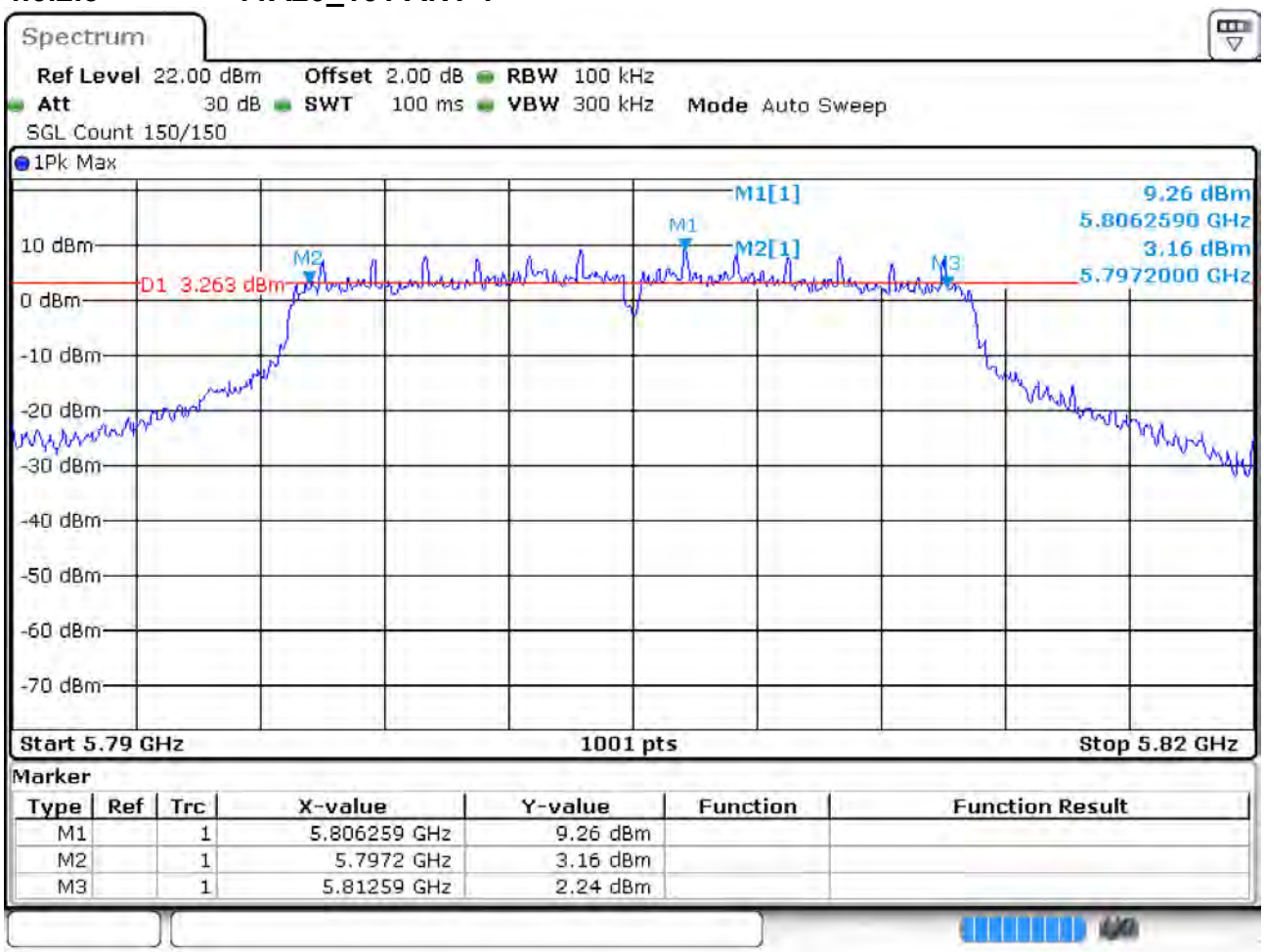
4.6.2.3 11A20_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.806259 GHz	9.26 dBm		
M2		1	5.7972 GHz	3.16 dBm		
M3		1	5.81259 GHz	2.24 dBm		

Date: 21.OCT.2020 19:01:42

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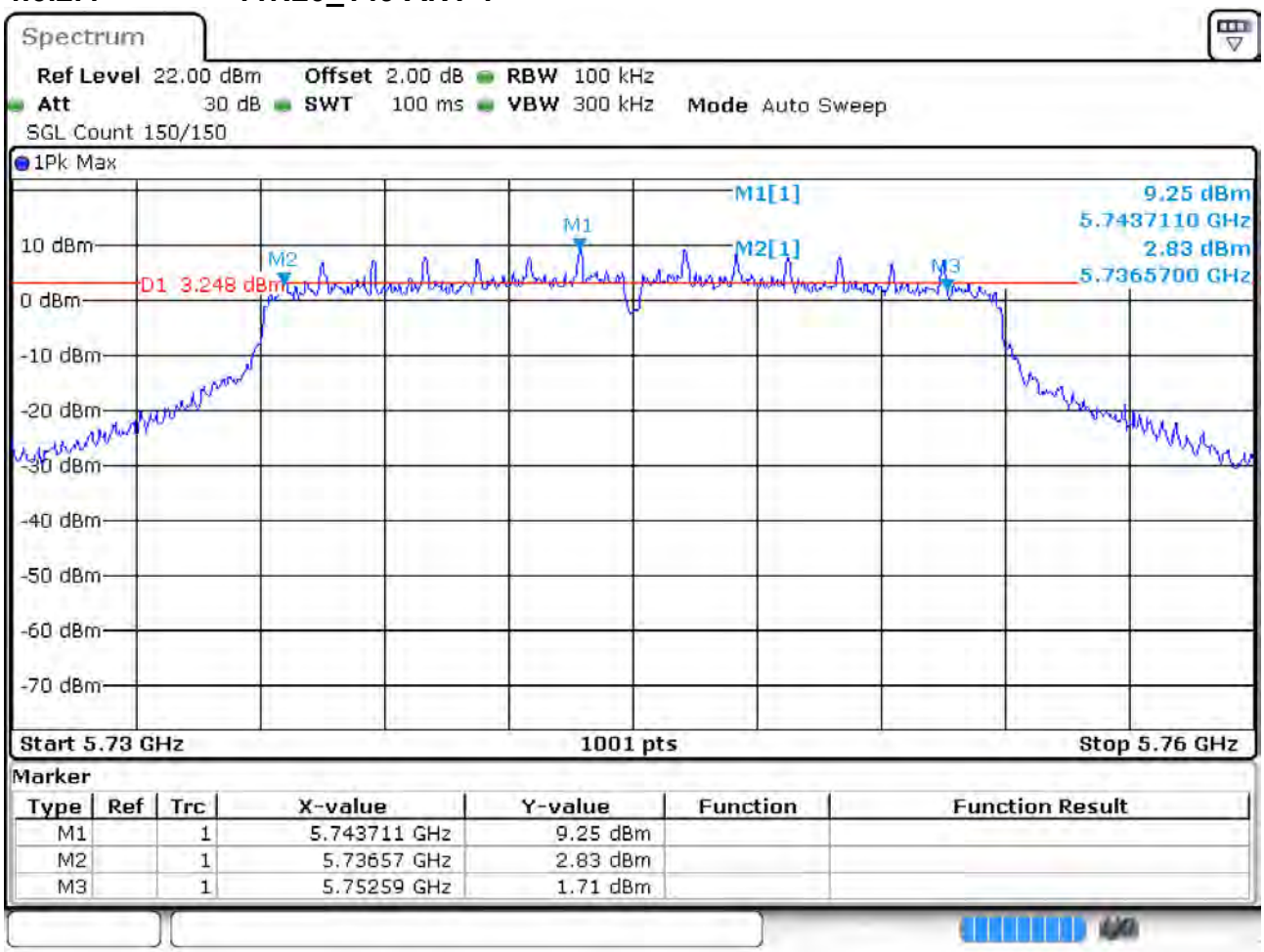
4.6.2.4 11N20_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.743711 GHz	9.25 dBm		
M2		1	5.73657 GHz	2.83 dBm		
M3		1	5.75259 GHz	1.71 dBm		

Date: 13.OCT.2020 13:59:29

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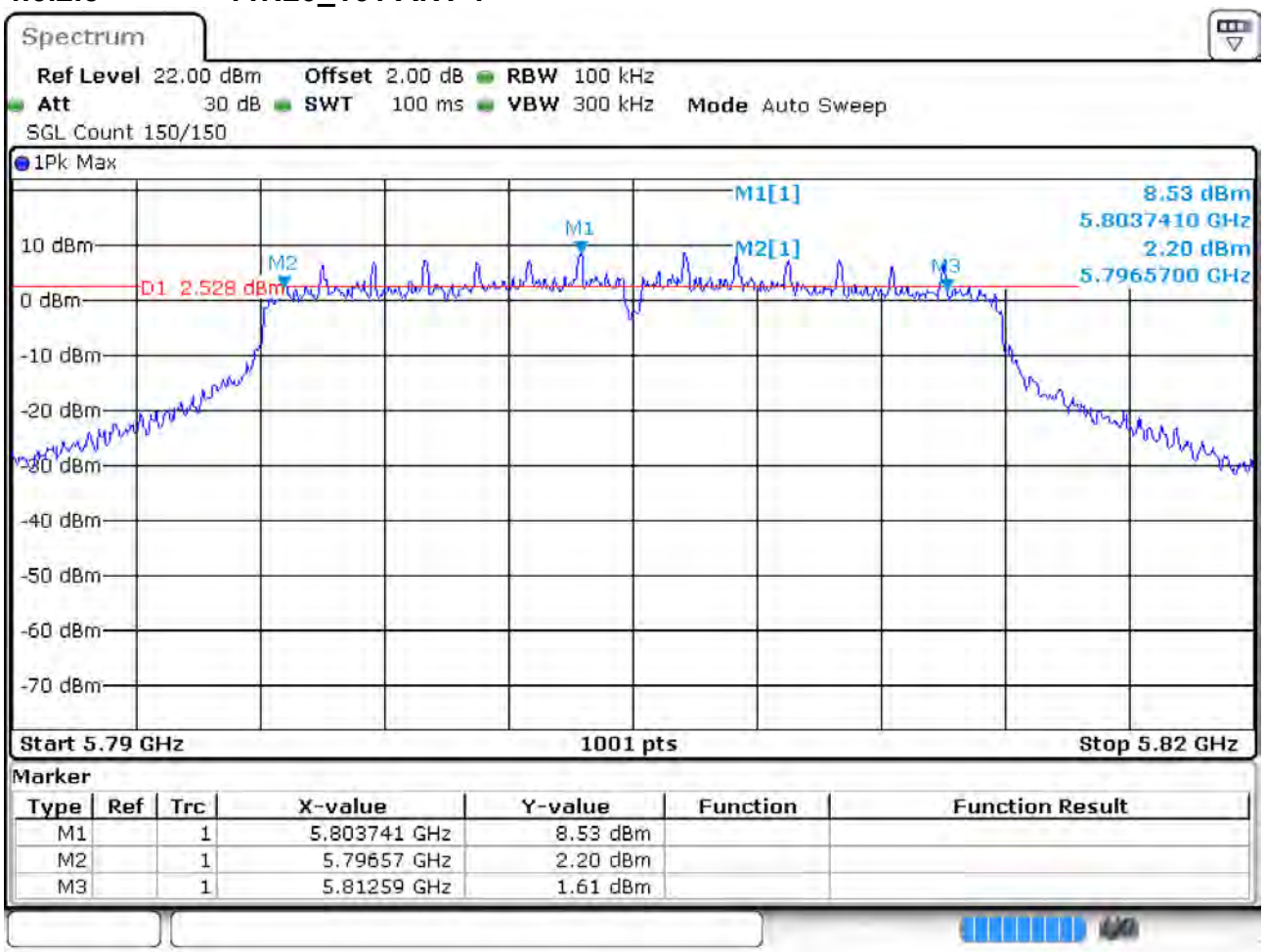
4.6.2.5 11N20_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.803741 GHz	8.53 dBm		
M2		1	5.79657 GHz	2.20 dBm		
M3		1	5.81259 GHz	1.61 dBm		

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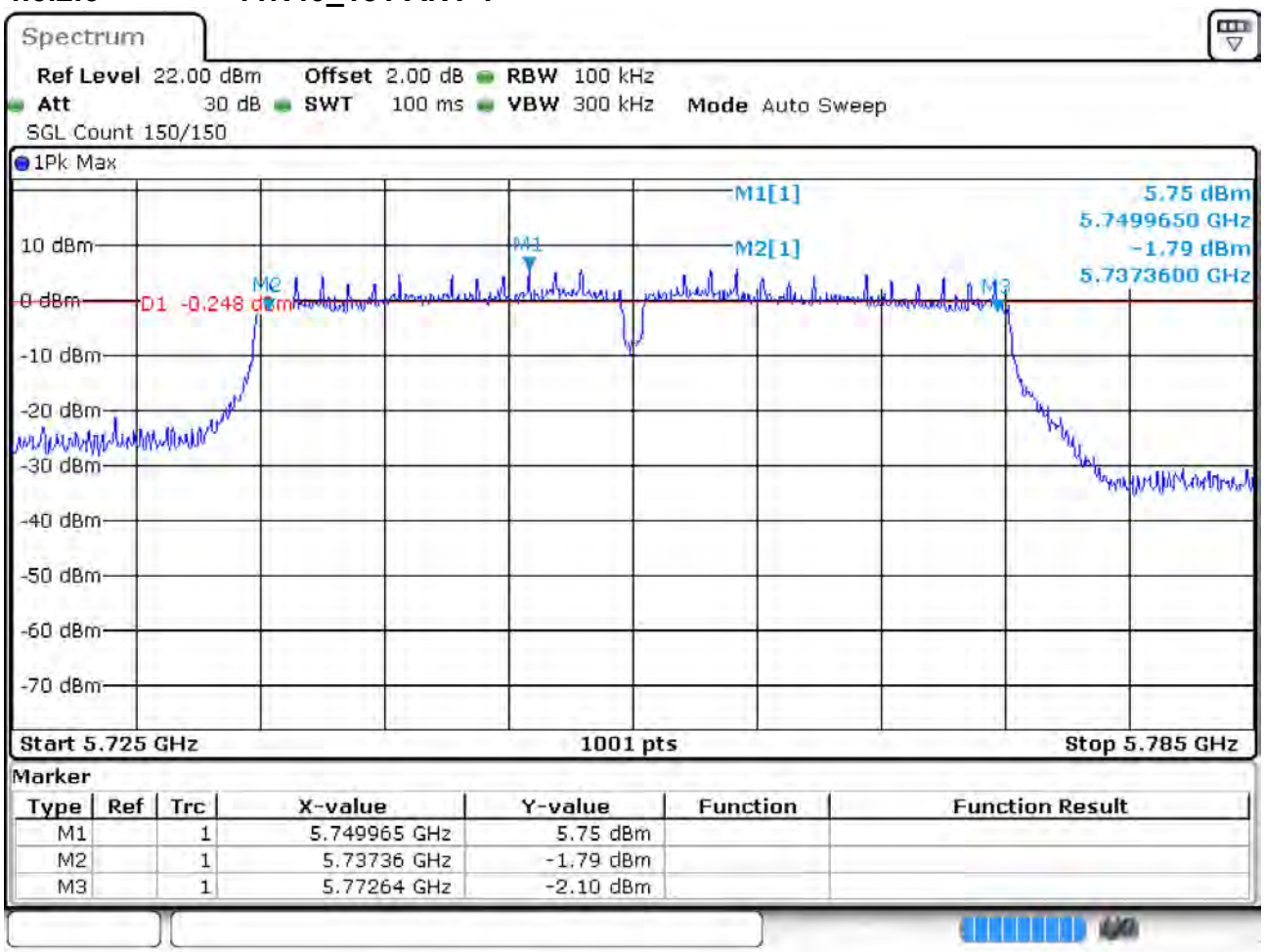
4.6.2.6 11N40_151 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749965 GHz	5.75 dBm		
M2		1	5.73736 GHz	-1.79 dBm		
M3		1	5.77264 GHz	-2.10 dBm		

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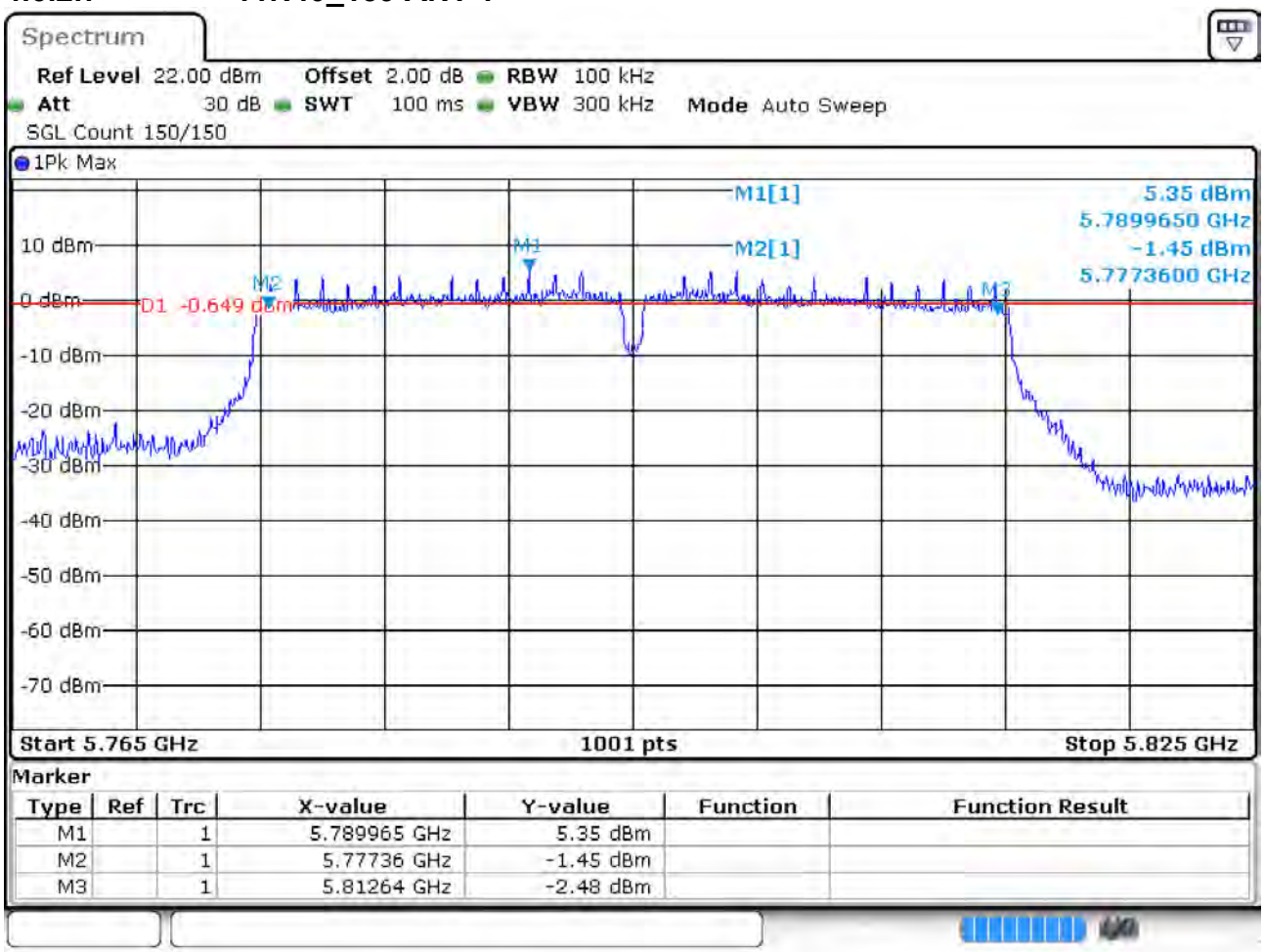
4.6.2.7 11N40_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.789965 GHz	5.35 dBm		
M2		1	5.77736 GHz	-1.45 dBm		
M3		1	5.81264 GHz	-2.48 dBm		

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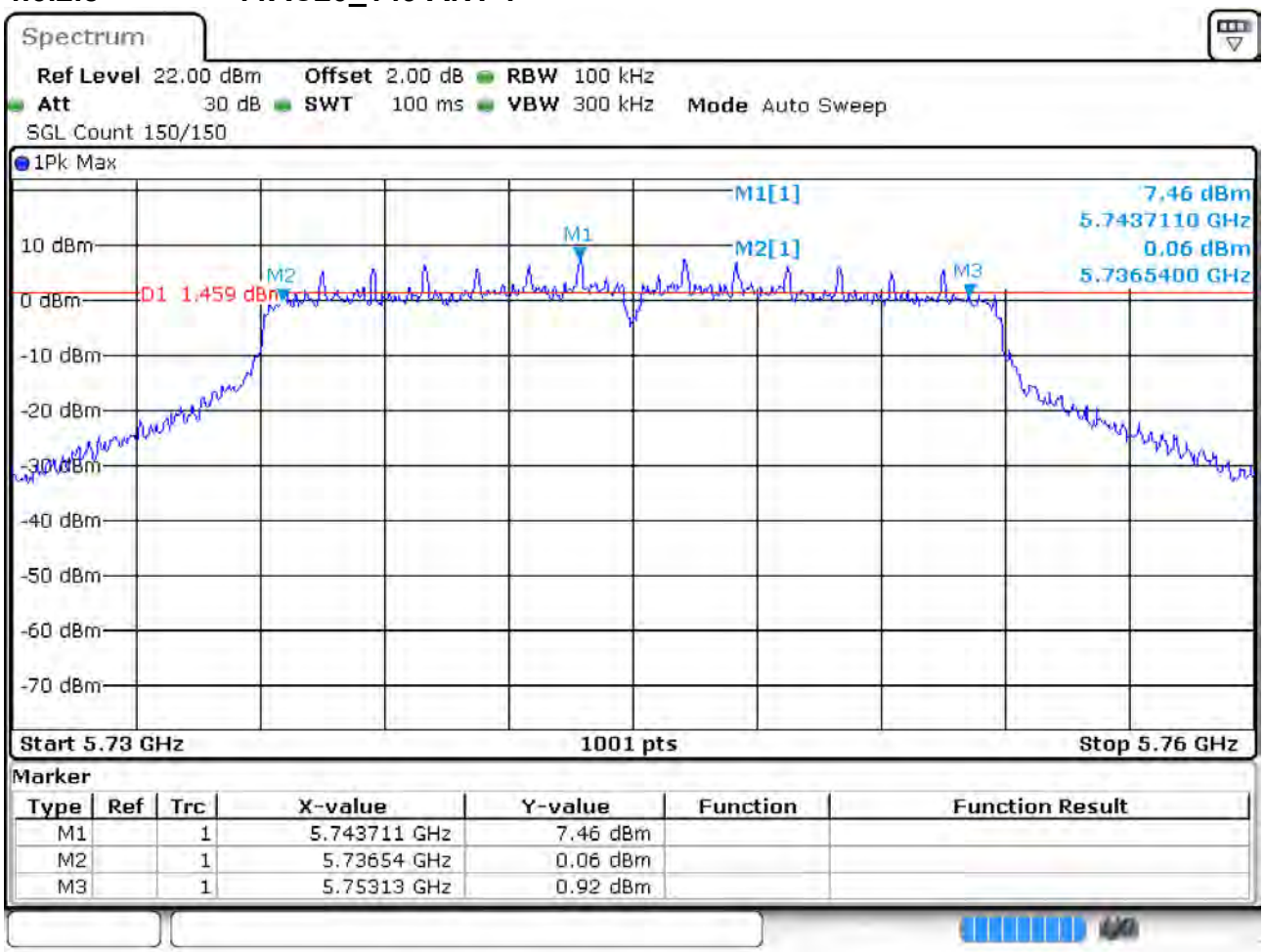
4.6.2.8 11AC20_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.743711 GHz	7.46 dBm		
M2		1	5.73654 GHz	0.06 dBm		
M3		1	5.75313 GHz	0.92 dBm		

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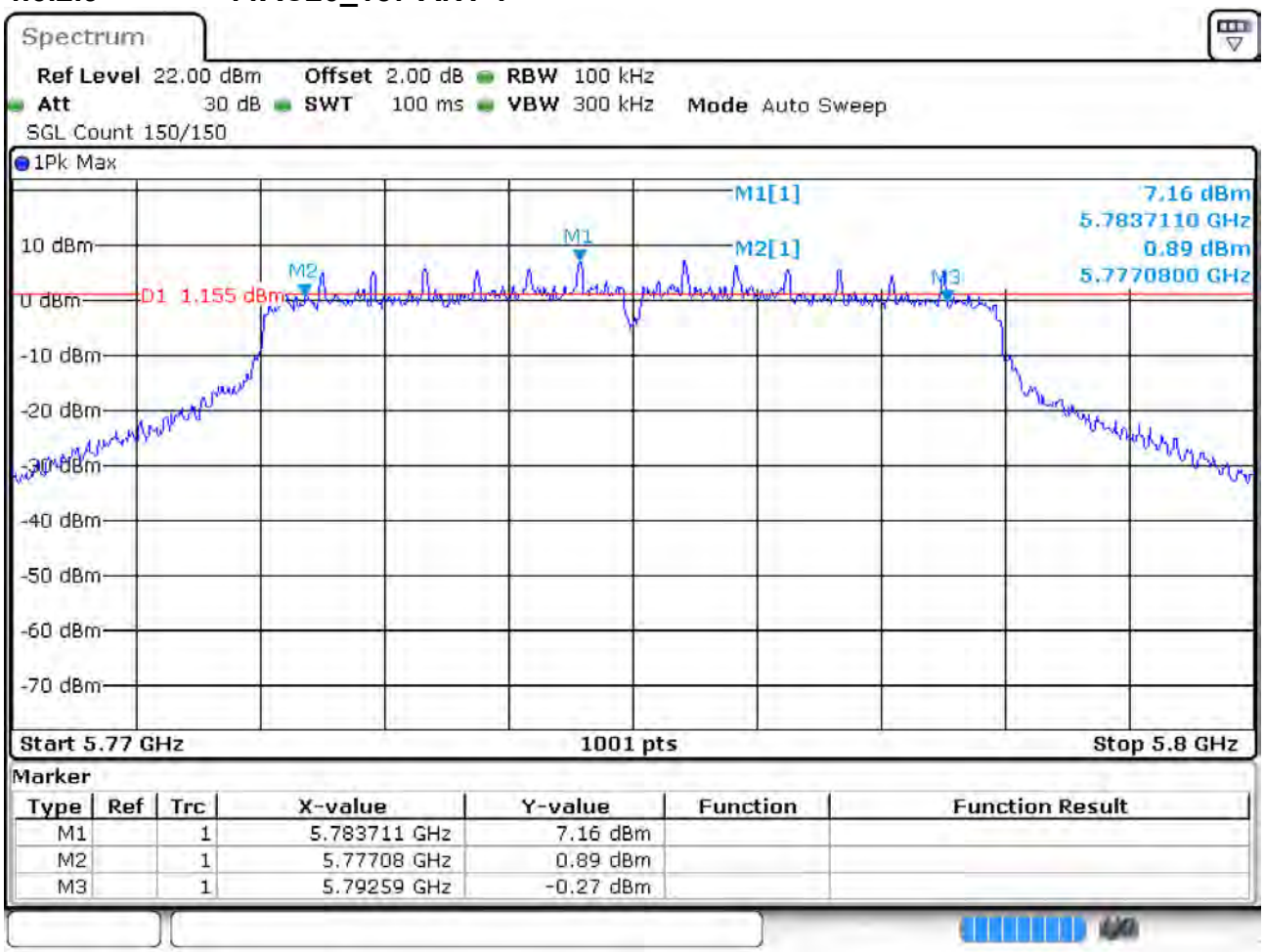
4.6.2.9 11AC20_157 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.783711 GHz	7.16 dBm		
M2		1	5.77708 GHz	0.89 dBm		
M3		1	5.79259 GHz	-0.27 dBm		

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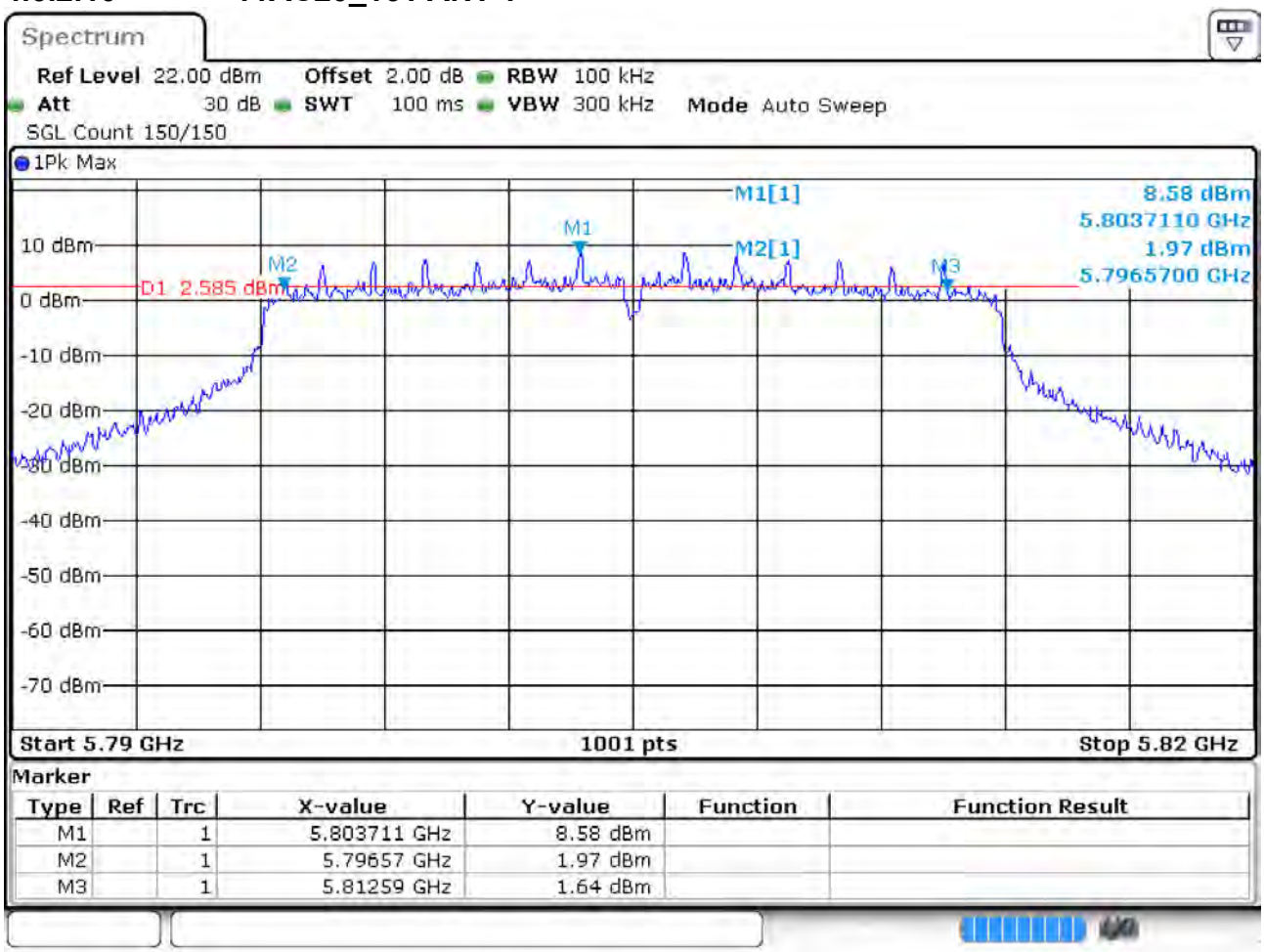
4.6.2.10 11AC20_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.803711 GHz	8.58 dBm		
M2		1	5.79657 GHz	1.97 dBm		
M3		1	5.81259 GHz	1.64 dBm		

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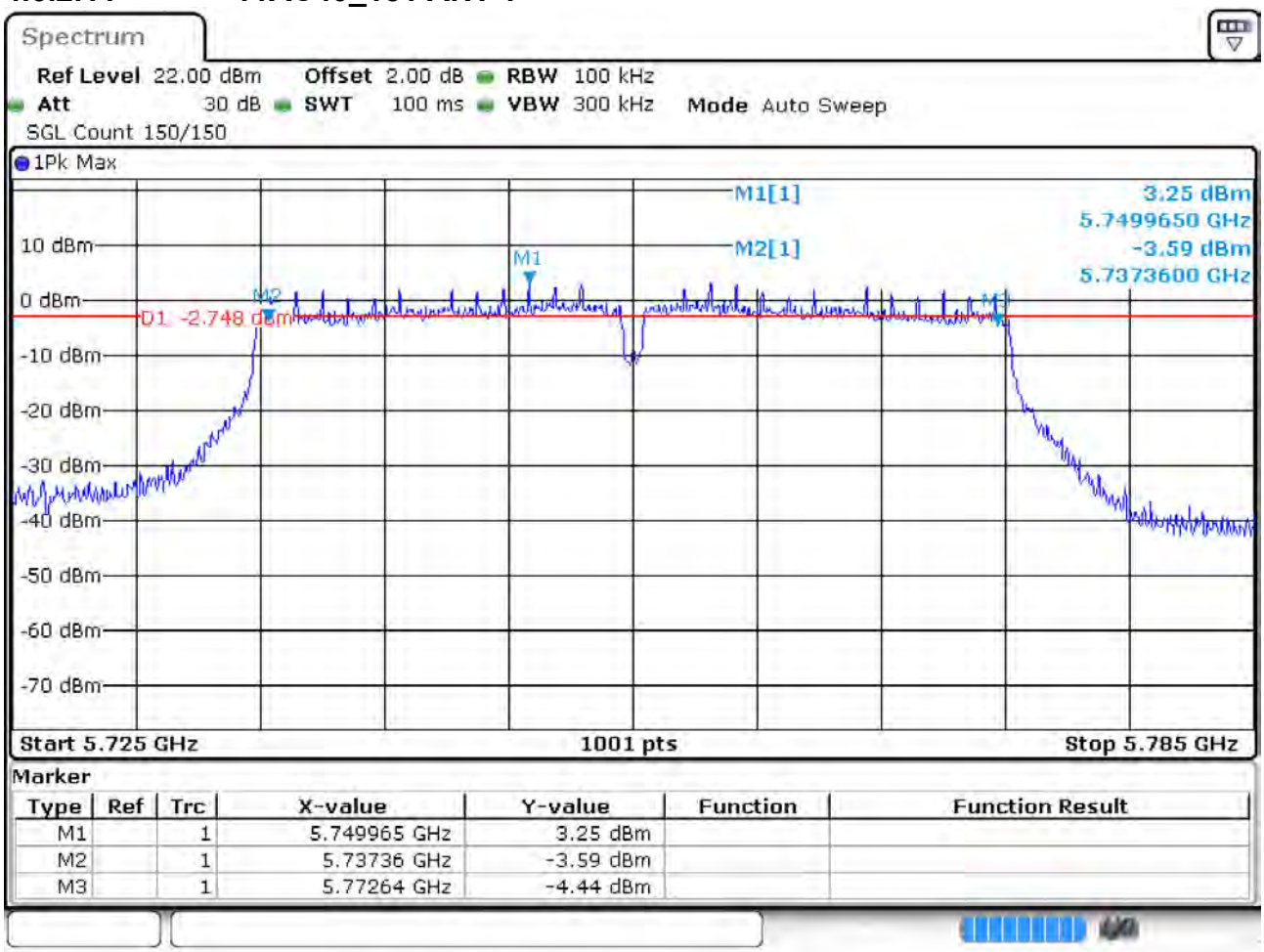
4.6.2.11 11AC40_151 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749965 GHz	3.25 dBm		
M2		1	5.73736 GHz	-3.59 dBm		
M3		1	5.77264 GHz	-4.44 dBm		

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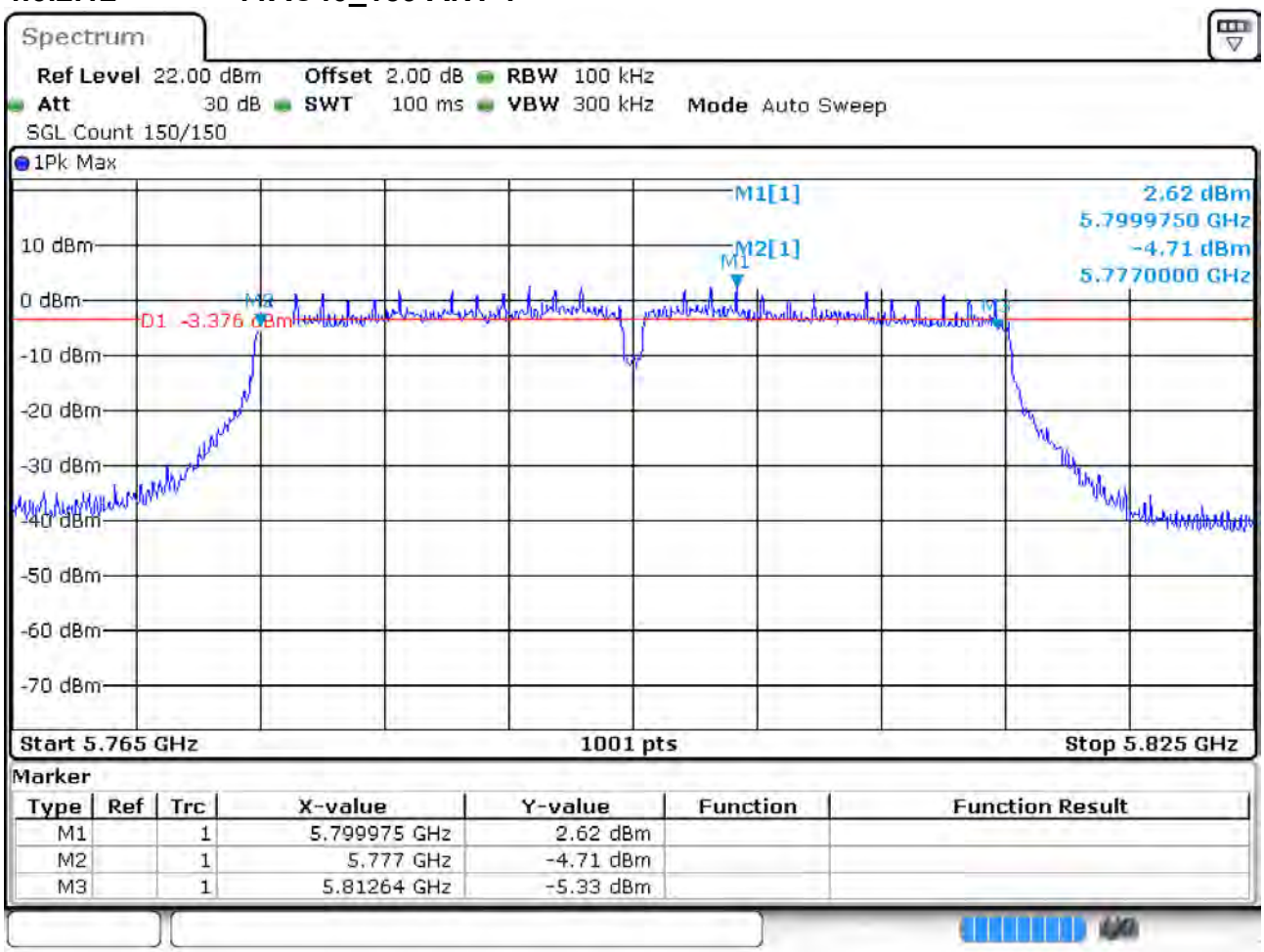
4.6.2.12 11AC40_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.799975 GHz	2.62 dBm		
M2		1	5.777 GHz	-4.71 dBm		
M3		1	5.81264 GHz	-5.33 dBm		

Date: 13.OCT.2020 15:33:19

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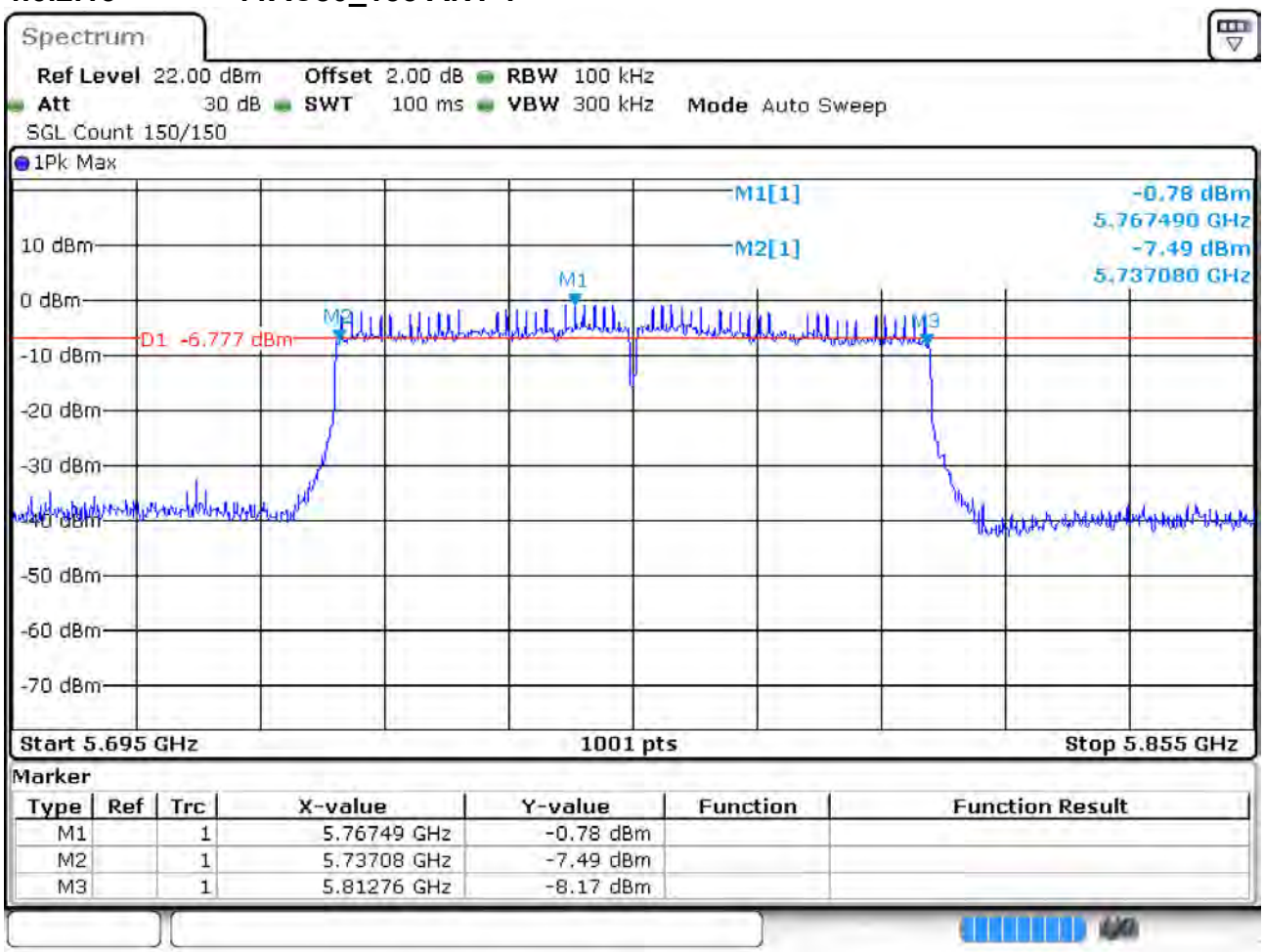
4.6.2.13 11AC80_155 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.76749 GHz	-0.78 dBm		
M2		1	5.73708 GHz	-7.49 dBm		
M3		1	5.81276 GHz	-8.17 dBm		

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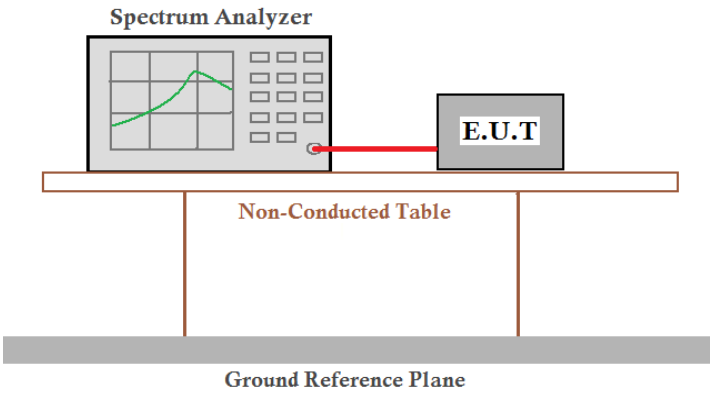
4.7 99% Occupied Bandwidth

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	

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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	16.7832	PASS
	44	5220	ANT 1	16.7532	PASS
	48	5240	ANT 1	16.7832	PASS
	52	5260	ANT 1	16.7532	PASS
	60	5300	ANT 1	16.7532	PASS
	64	5320	ANT 1	16.7233	PASS
	100	5500	ANT 1	16.7532	PASS
	116	5580	ANT 1	16.7532	PASS
	140	5700	ANT 1	16.7832	PASS
	149	5745	ANT 1	16.7532	PASS
	157	5785	ANT 1	16.7532	PASS
	161	5805	ANT 1	16.7532	PASS
11N20	36	5180	ANT 1	17.8921	PASS
	44	5220	ANT 1	17.9221	PASS
	48	5240	ANT 1	17.9221	PASS
	52	5260	ANT 1	17.8921	PASS
	60	5300	ANT 1	17.8921	PASS
	64	5320	ANT 1	17.8921	PASS
	100	5500	ANT 1	17.9221	PASS
	116	5580	ANT 1	17.8921	PASS
	140	5700	ANT 1	17.8921	PASS
	149	5745	ANT 1	17.8621	PASS
	157	5785	ANT 1	17.8921	PASS
	161	5805	ANT 1	17.8921	PASS
11N40	38	5190	ANT 1	36.3237	PASS
	46	5230	ANT 1	36.3237	PASS
	54	5270	ANT 1	36.3237	PASS
	62	5310	ANT 1	36.3836	PASS
	102	5510	ANT 1	36.3836	PASS
	110	5550	ANT 1	36.3836	PASS
	134	5670	ANT 1	36.3836	PASS
	151	5755	ANT 1	36.3836	PASS
	159	5795	ANT 1	36.3836	PASS
11AC20	36	5180	ANT 1	17.9221	PASS
	44	5220	ANT 1	17.9221	PASS

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	48	5240	ANT 1	17.8921	PASS
	52	5260	ANT 1	17.9221	PASS
	60	5300	ANT 1	17.9221	PASS
	64	5320	ANT 1	17.8921	PASS
	100	5500	ANT 1	17.8921	PASS
	116	5580	ANT 1	17.8921	PASS
	140	5700	ANT 1	17.8621	PASS
	149	5745	ANT 1	17.8921	PASS
	157	5785	ANT 1	17.8921	PASS
	161	5805	ANT 1	17.8621	PASS
11AC40	38	5190	ANT 1	36.3836	PASS
	46	5230	ANT 1	36.3237	PASS
	54	5270	ANT 1	36.3237	PASS
	62	5310	ANT 1	36.3237	PASS
	102	5510	ANT 1	36.3237	PASS
	110	5550	ANT 1	36.3237	PASS
	134	5670	ANT 1	36.3836	PASS
	151	5755	ANT 1	36.3836	PASS
	159	5795	ANT 1	36.3237	PASS
11AC80	42	5210	ANT 1	75.6444	PASS
	58	5290	ANT 1	75.7642	PASS
	106	5530	ANT 1	75.7642	PASS
	122	5610	ANT 1	75.8841	PASS
	155	5775	ANT 1	75.7642	PASS

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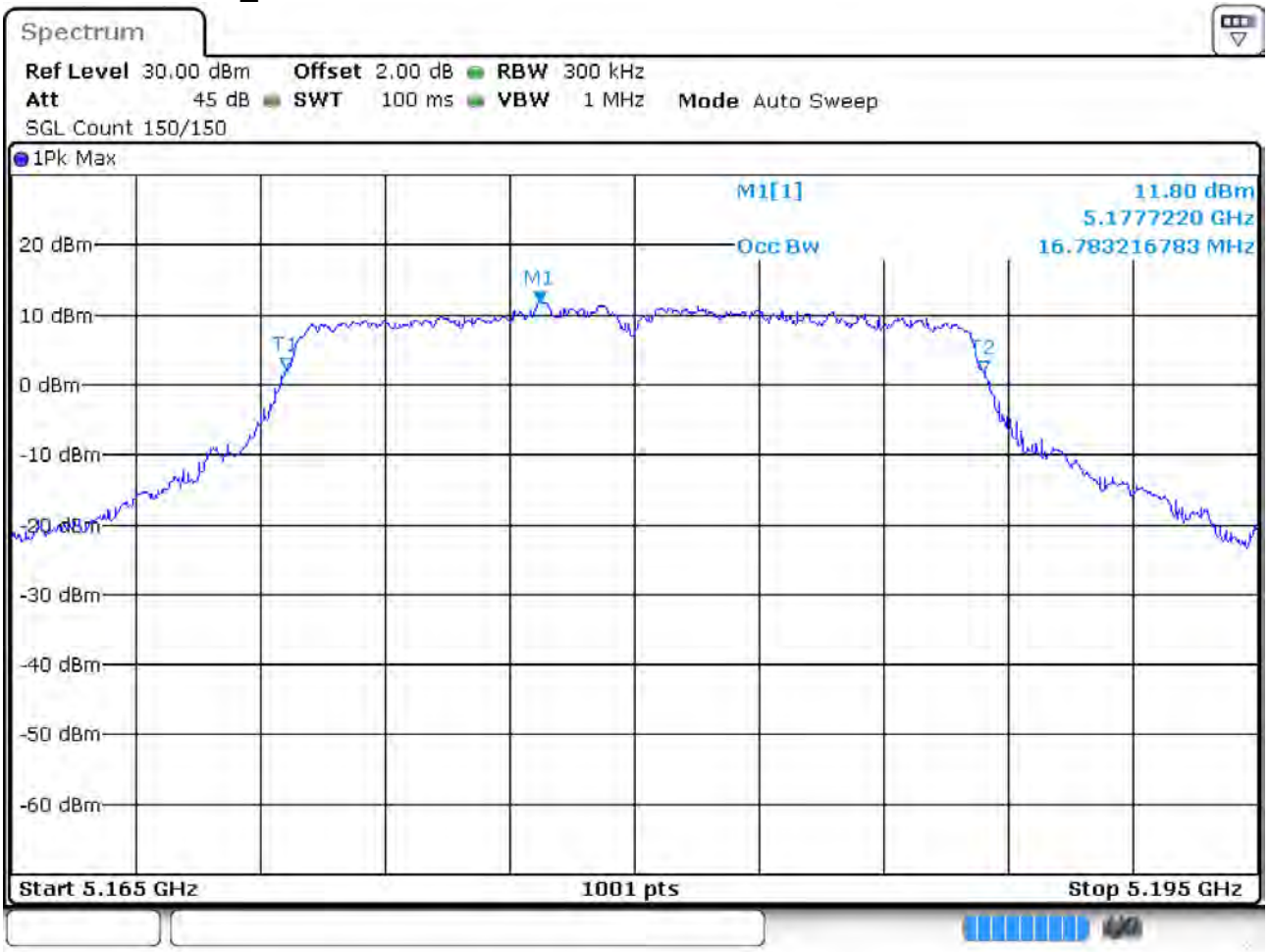
4.7.2 Plots for 99% Occupied Bandwidth

4.7.2.1 11A20_36 ANT 1



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4.7.2.2 11A20_44 ANT 1

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4.7.2.3 11A20_48 ANT 1

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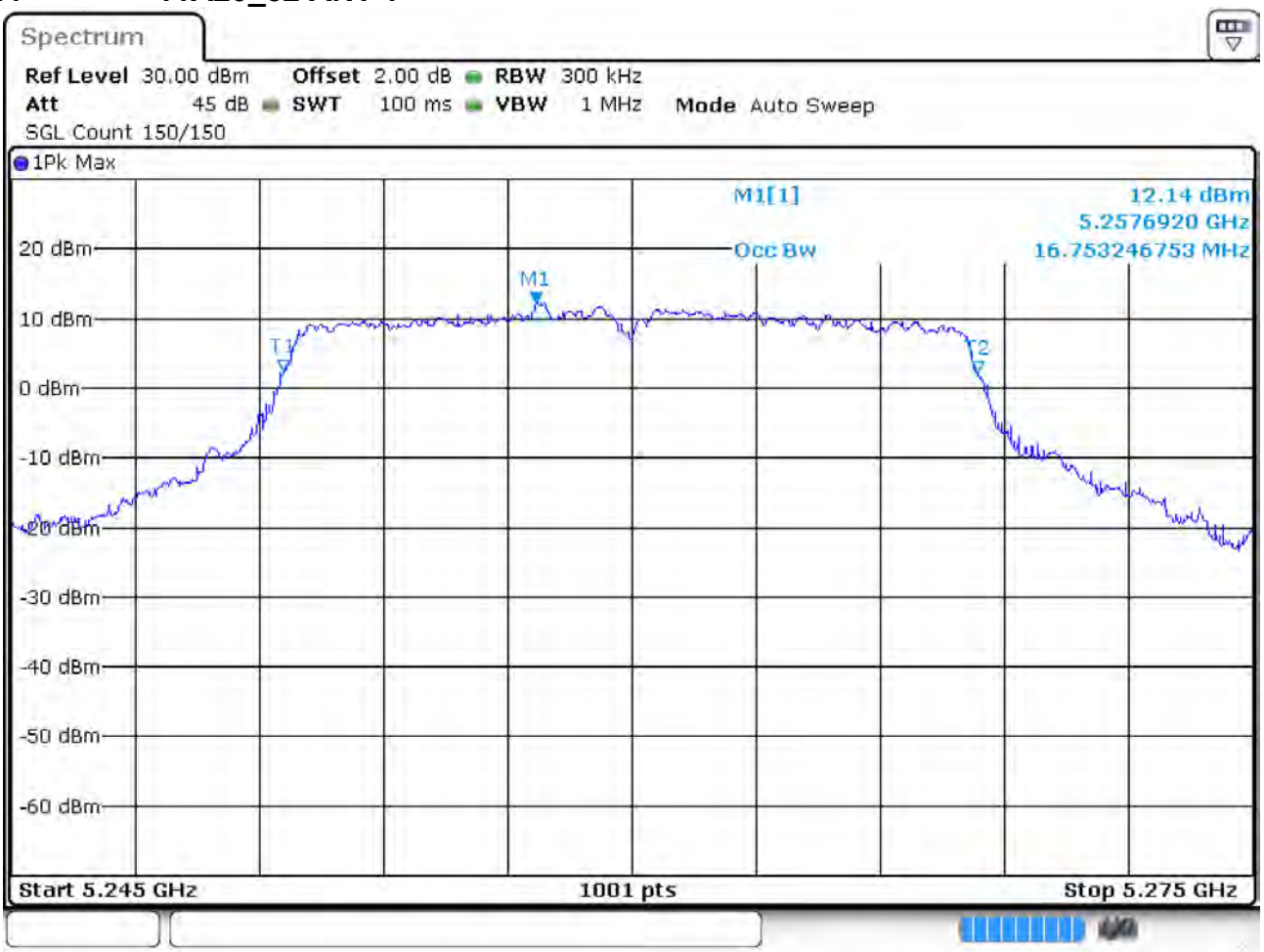
4.7.2.4 11A20_52 ANT 1



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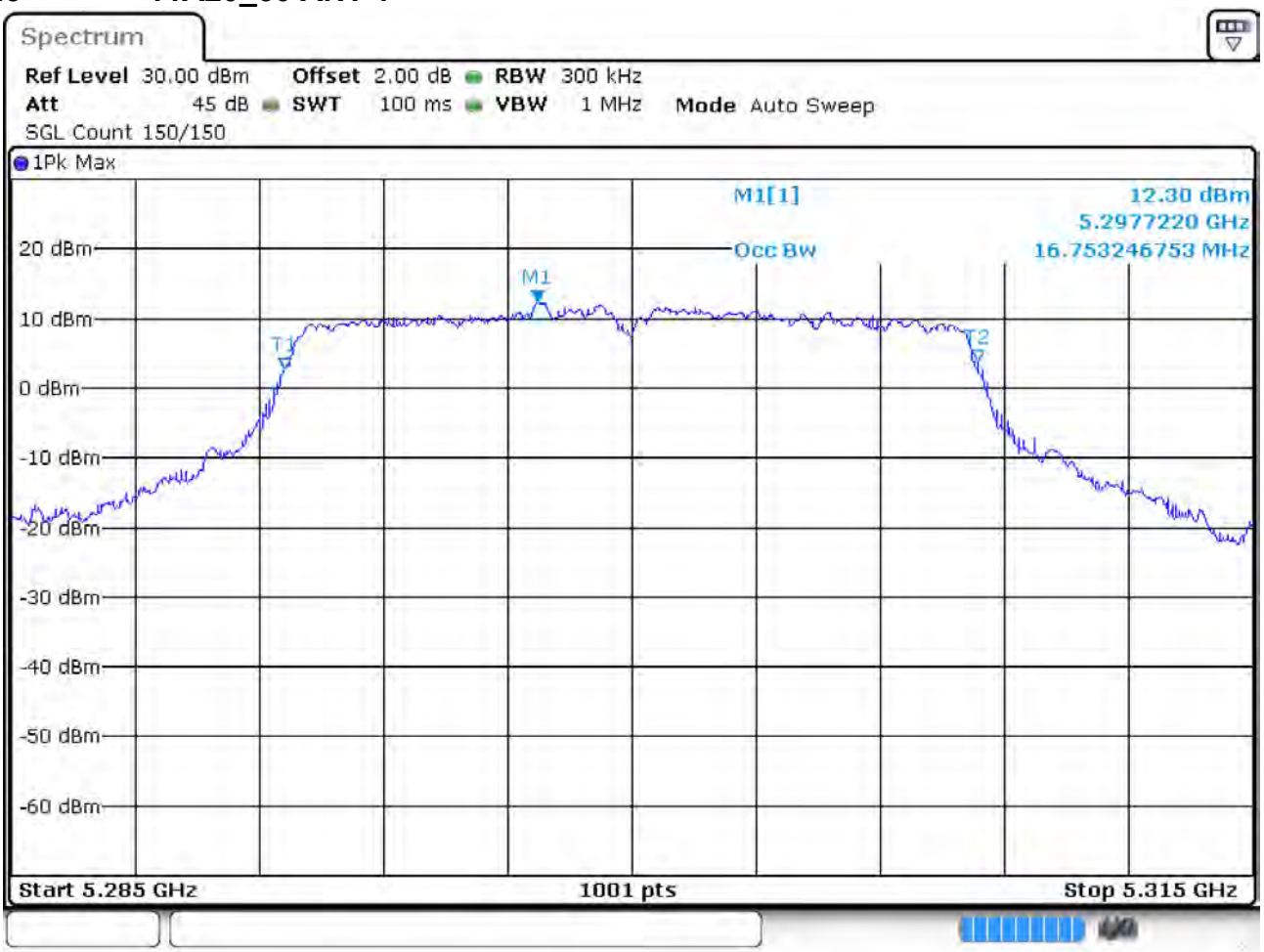
4.7.2.5 11A20_60 ANT 1



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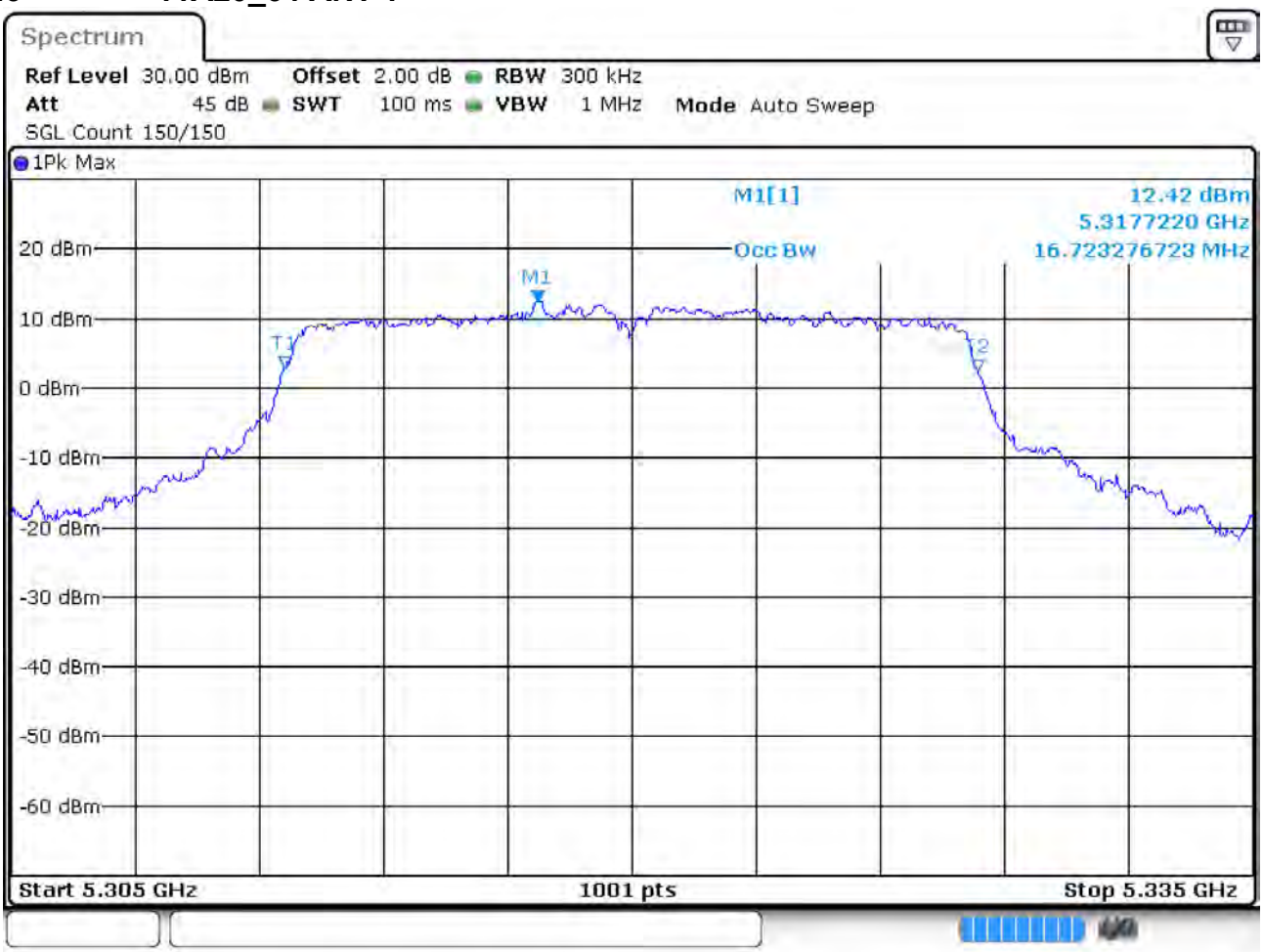
4.7.2.6 11A20_64 ANT 1



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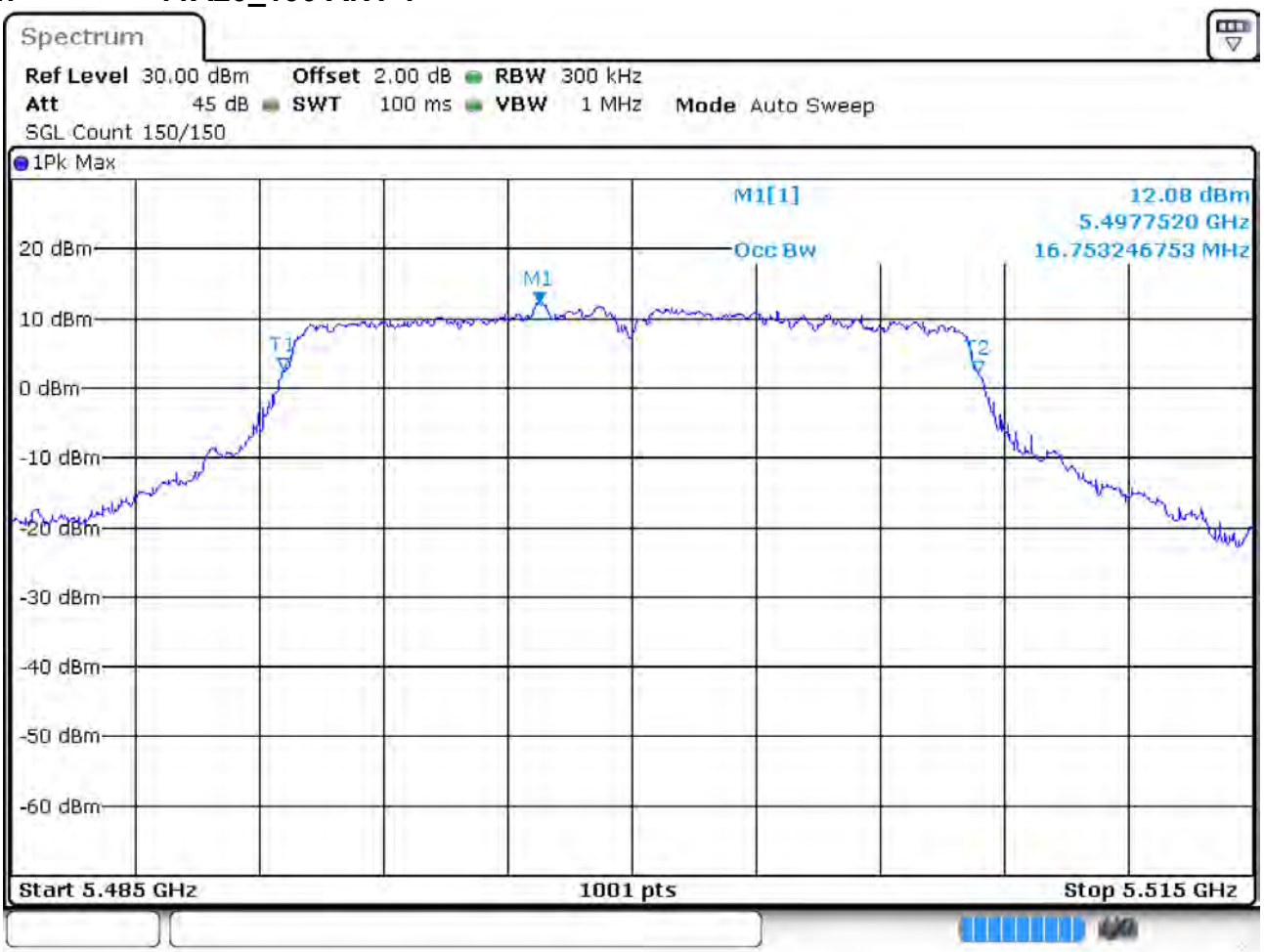
4.7.2.7 11A20_100 ANT 1



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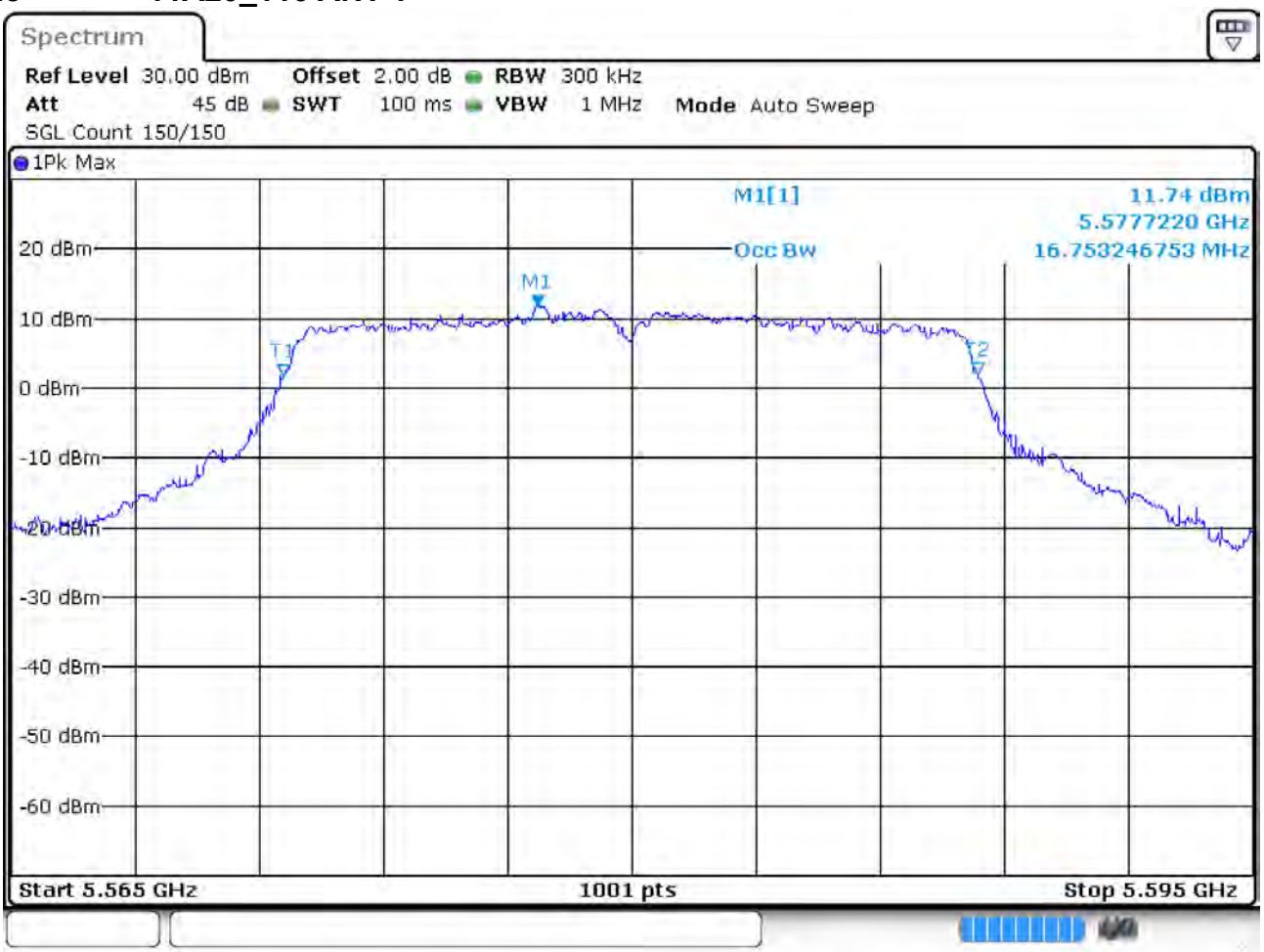
4.7.2.8 11A20_116 ANT 1



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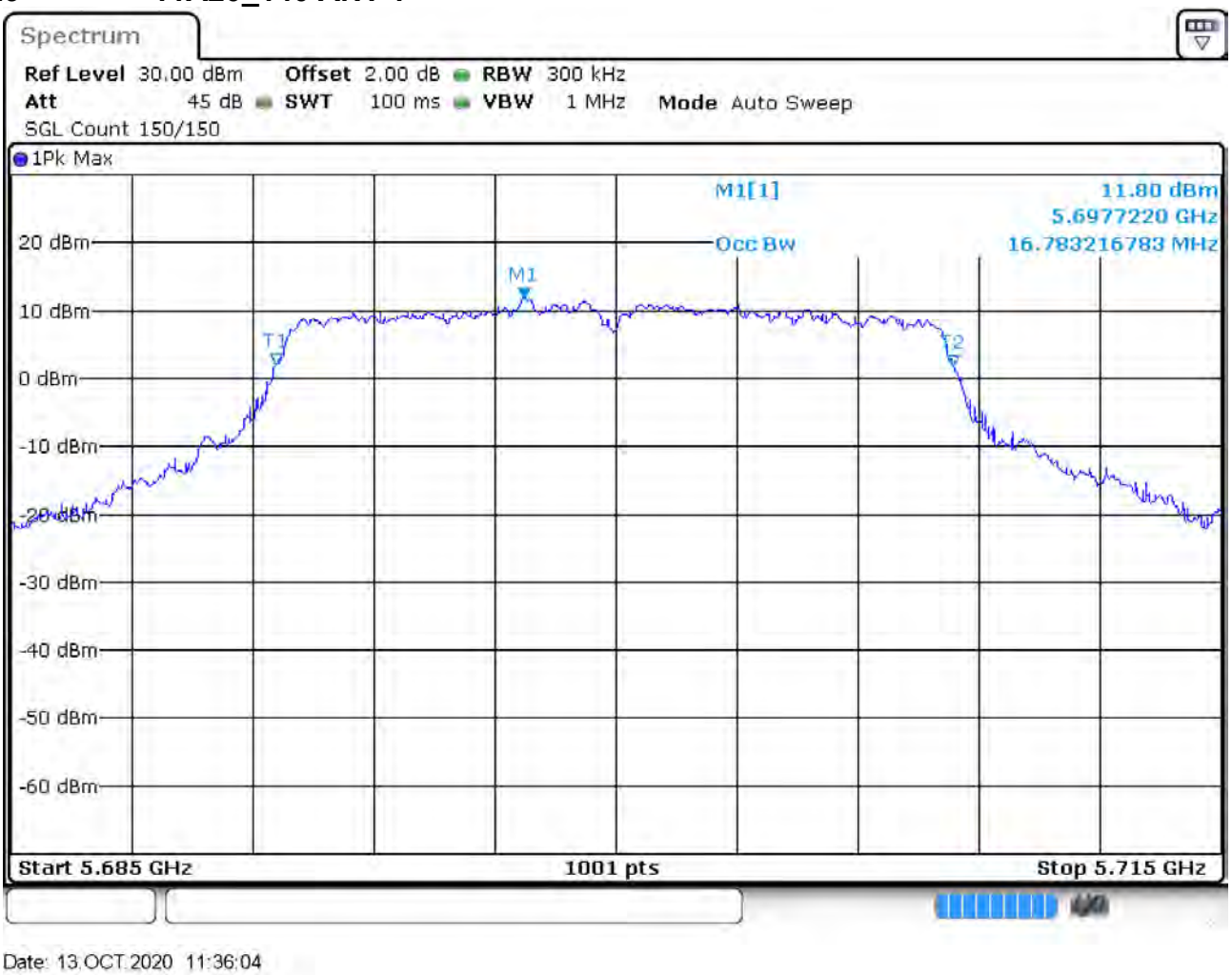
4.7.2.9 11A20_140 ANT 1



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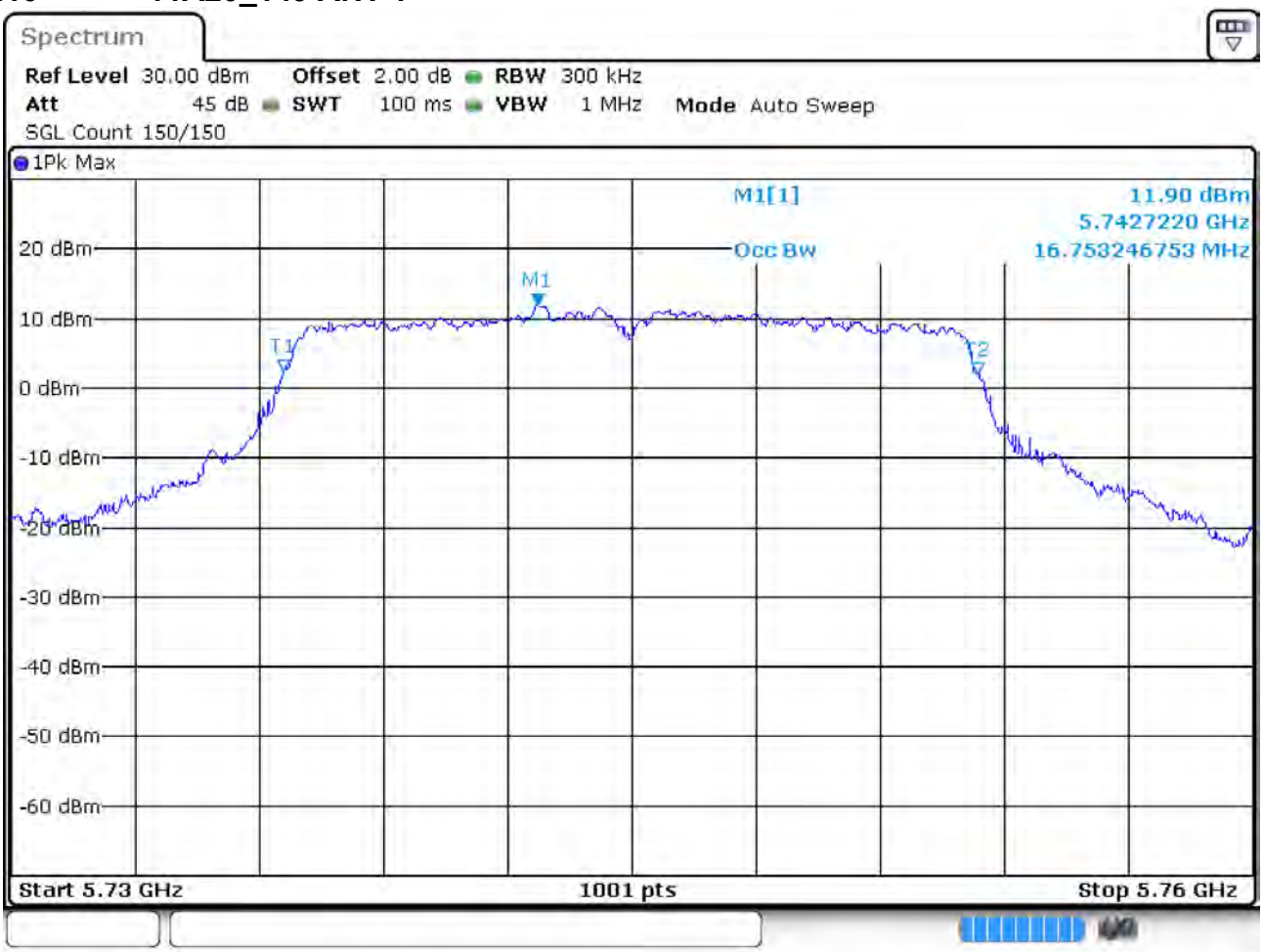
4.7.2.10 11A20_149 ANT 1



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4.7.2.11 11A20_157 ANT 1

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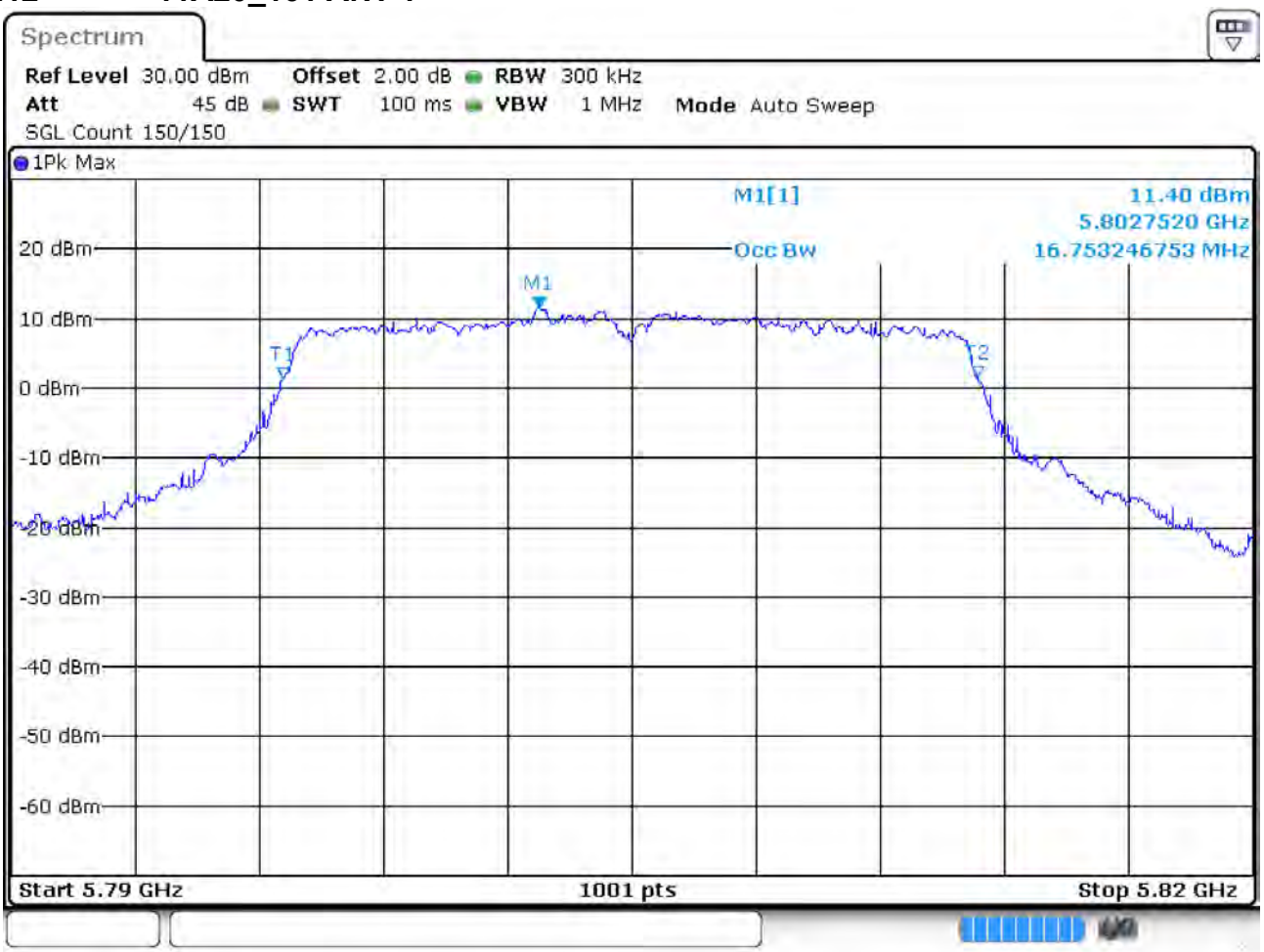
4.7.2.12 11A20_161 ANT 1



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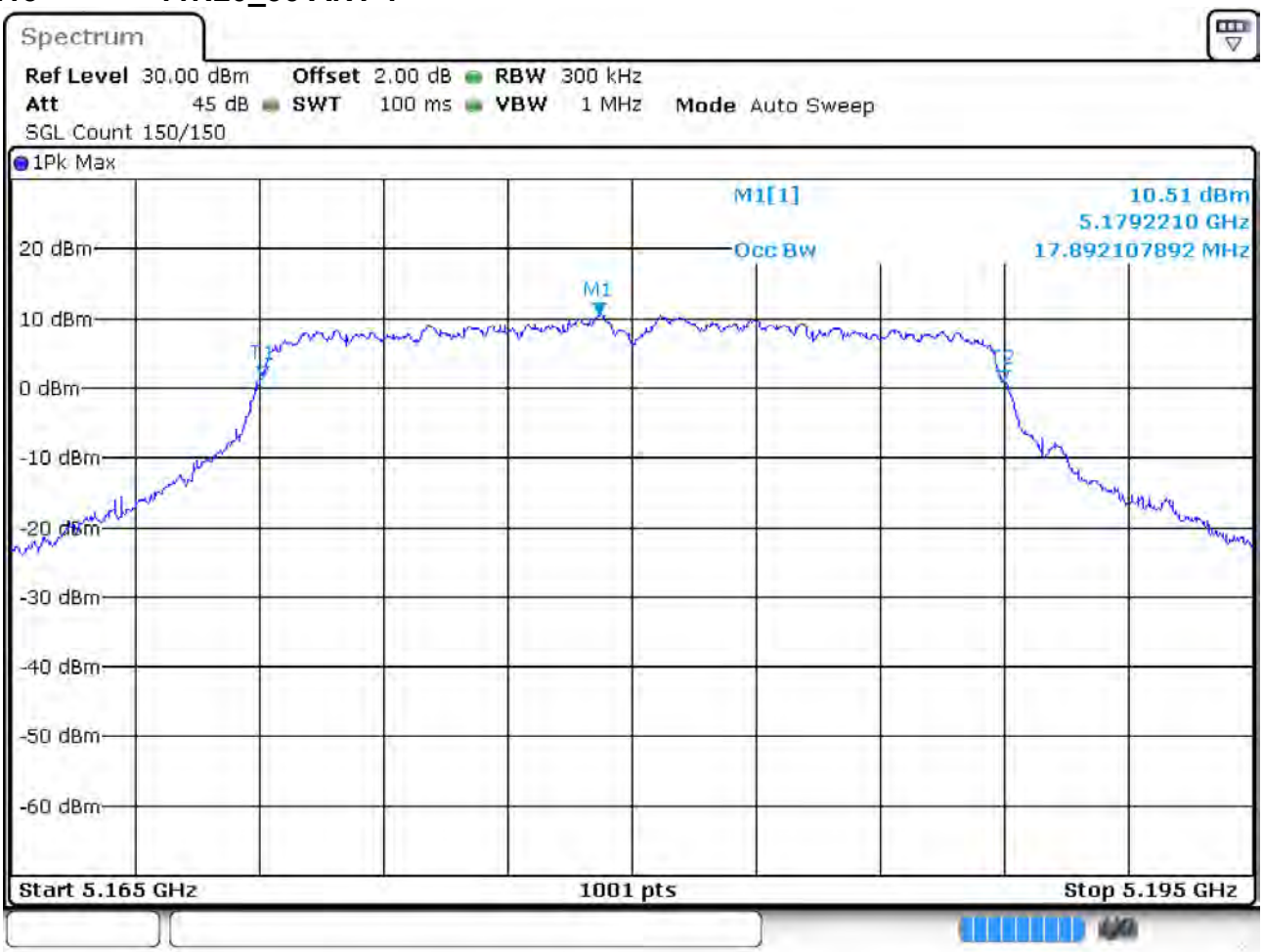
4.7.2.13 11N20_36 ANT 1



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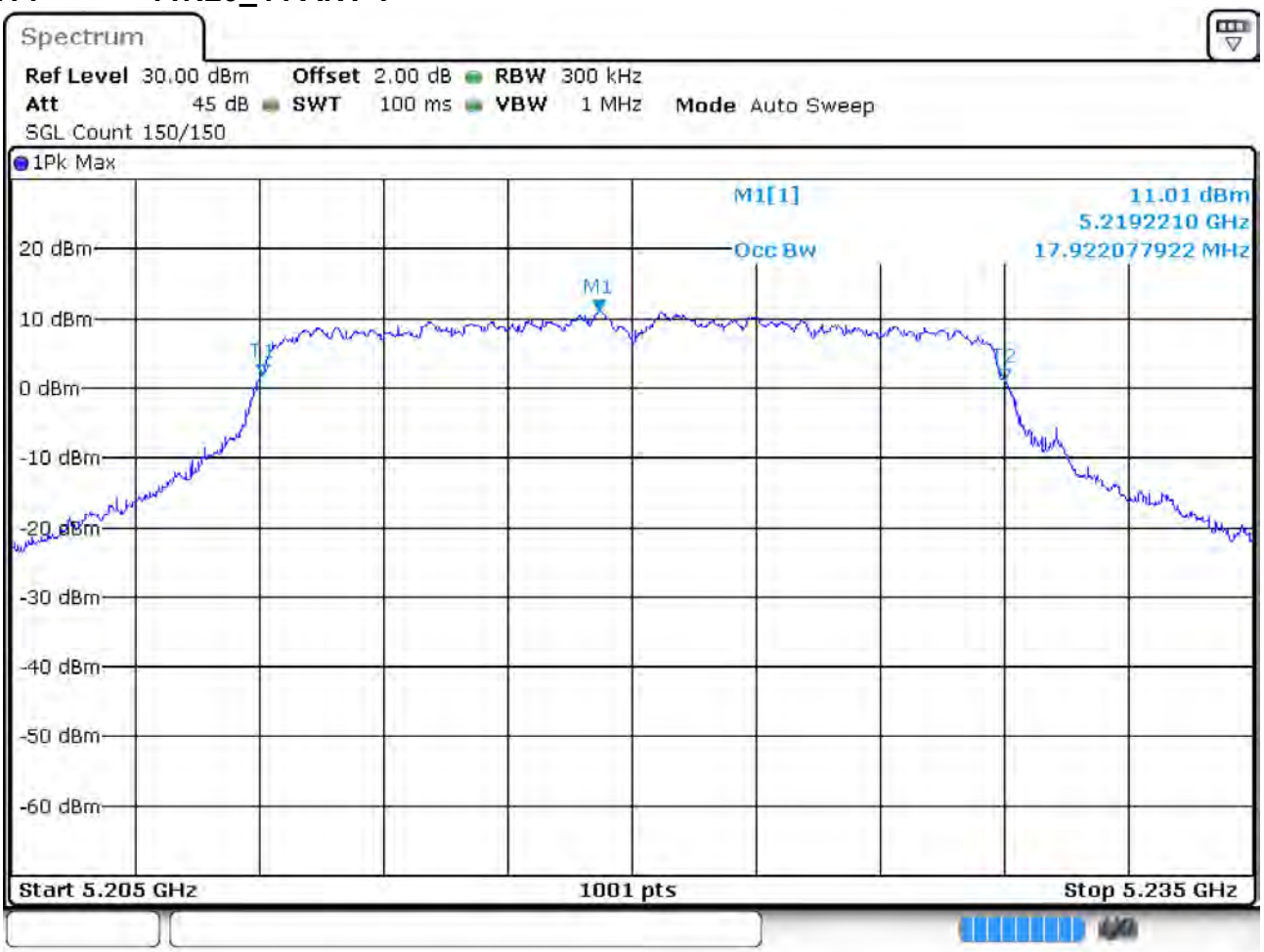
4.7.2.14 11N20_44 ANT 1



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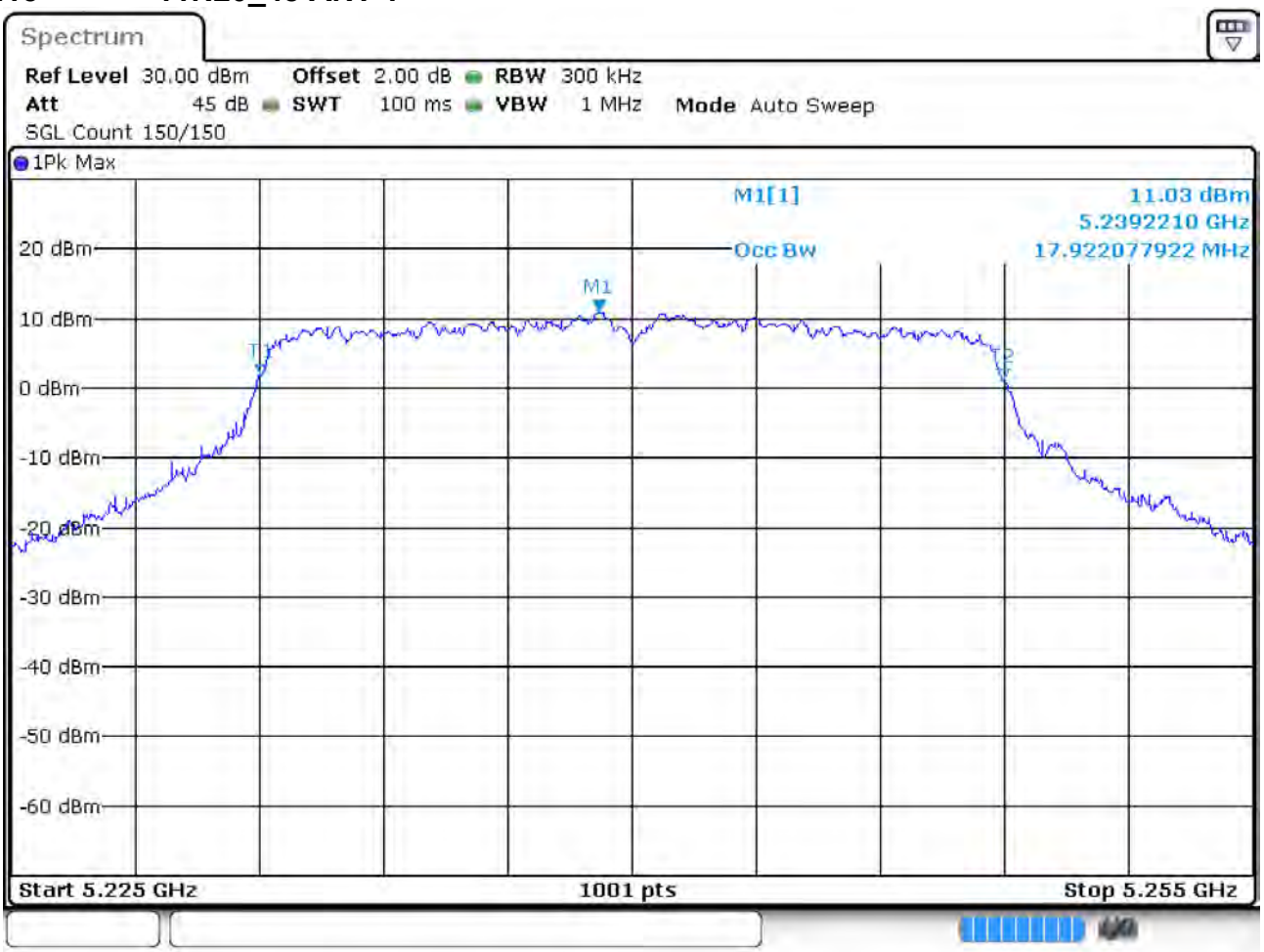
4.7.2.15 11N20_48 ANT 1



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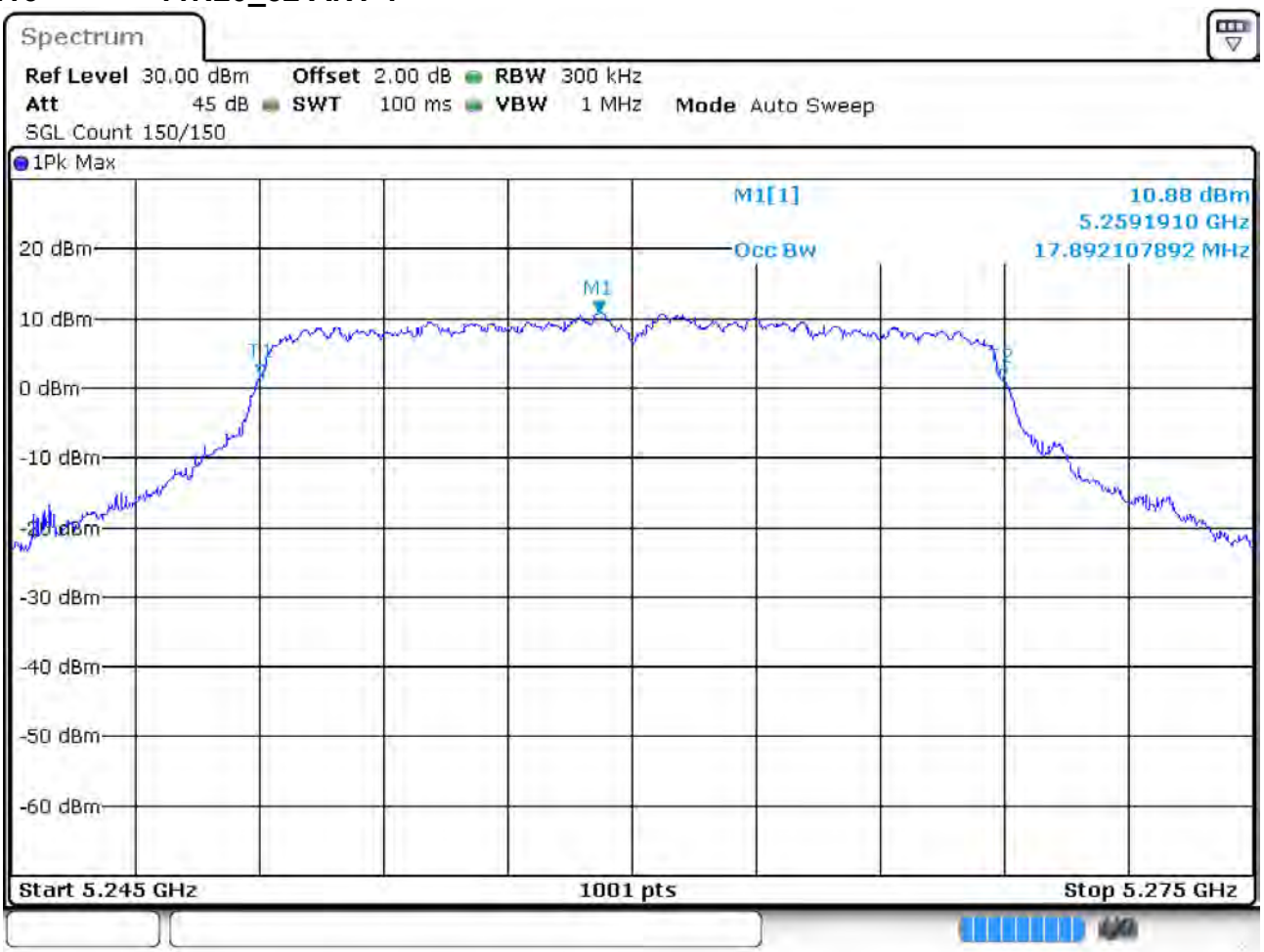
4.7.2.16 11N20_52 ANT 1



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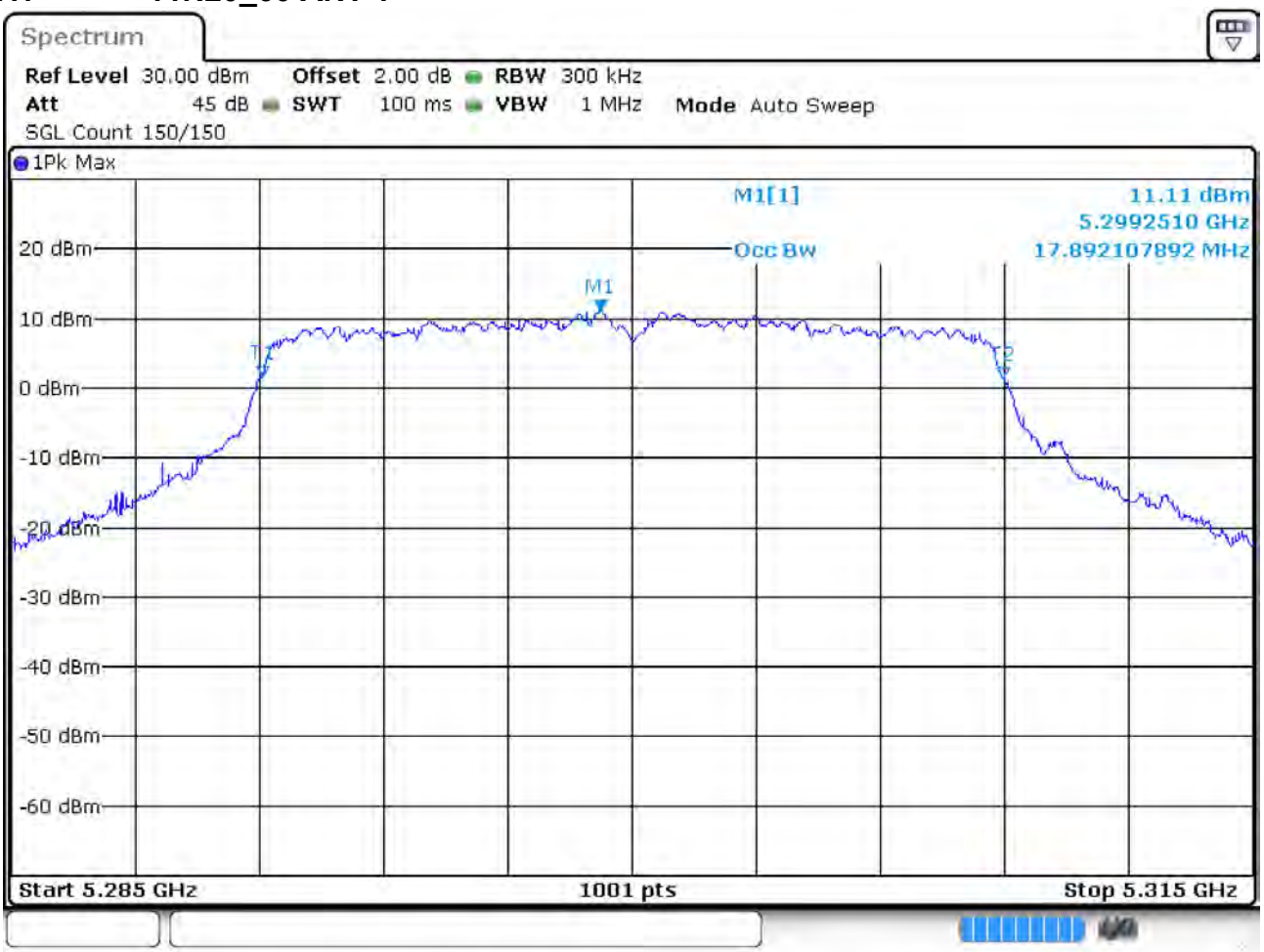
4.7.2.17 11N20_60 ANT 1



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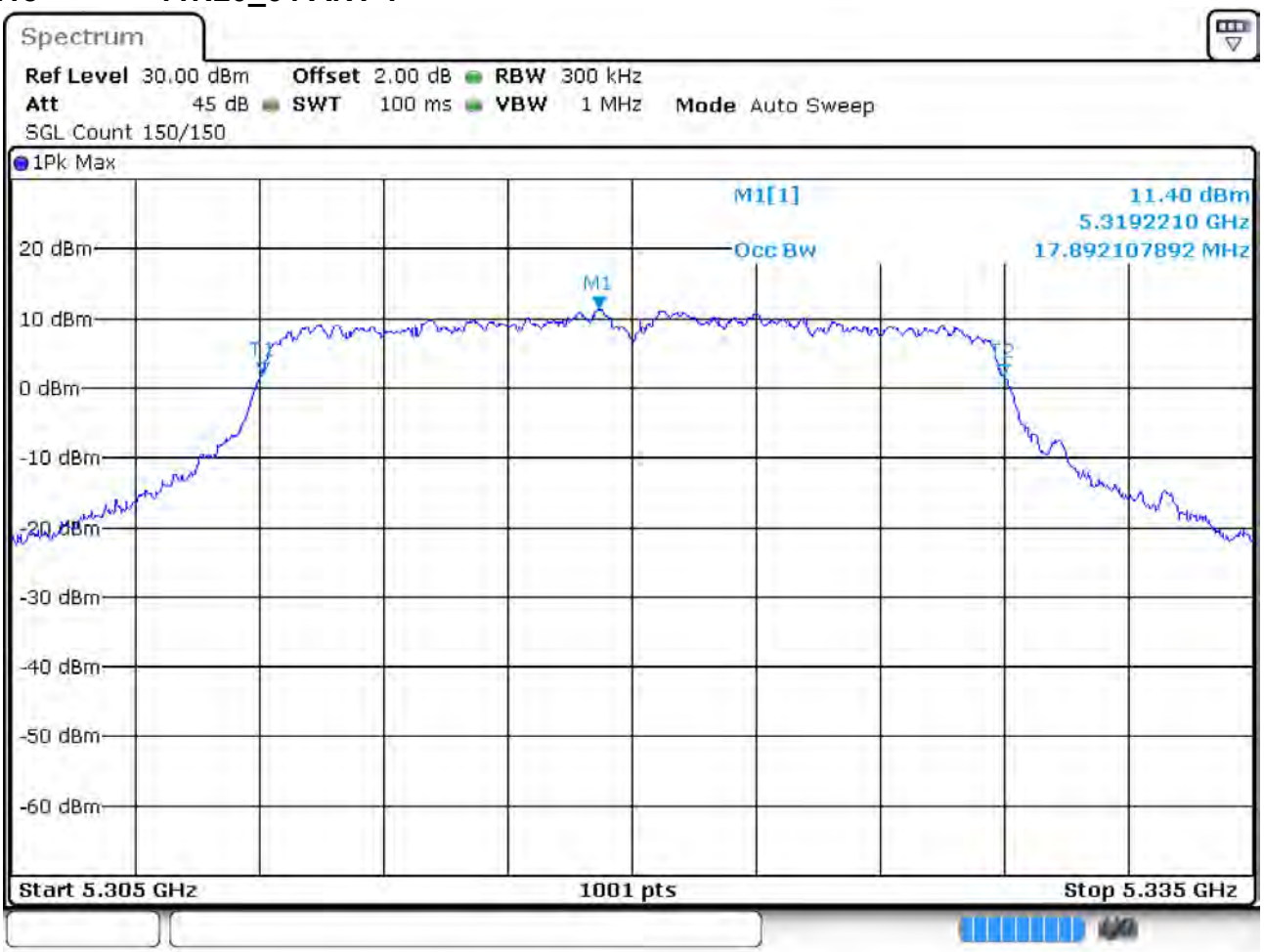
4.7.2.18 11N20_64 ANT 1



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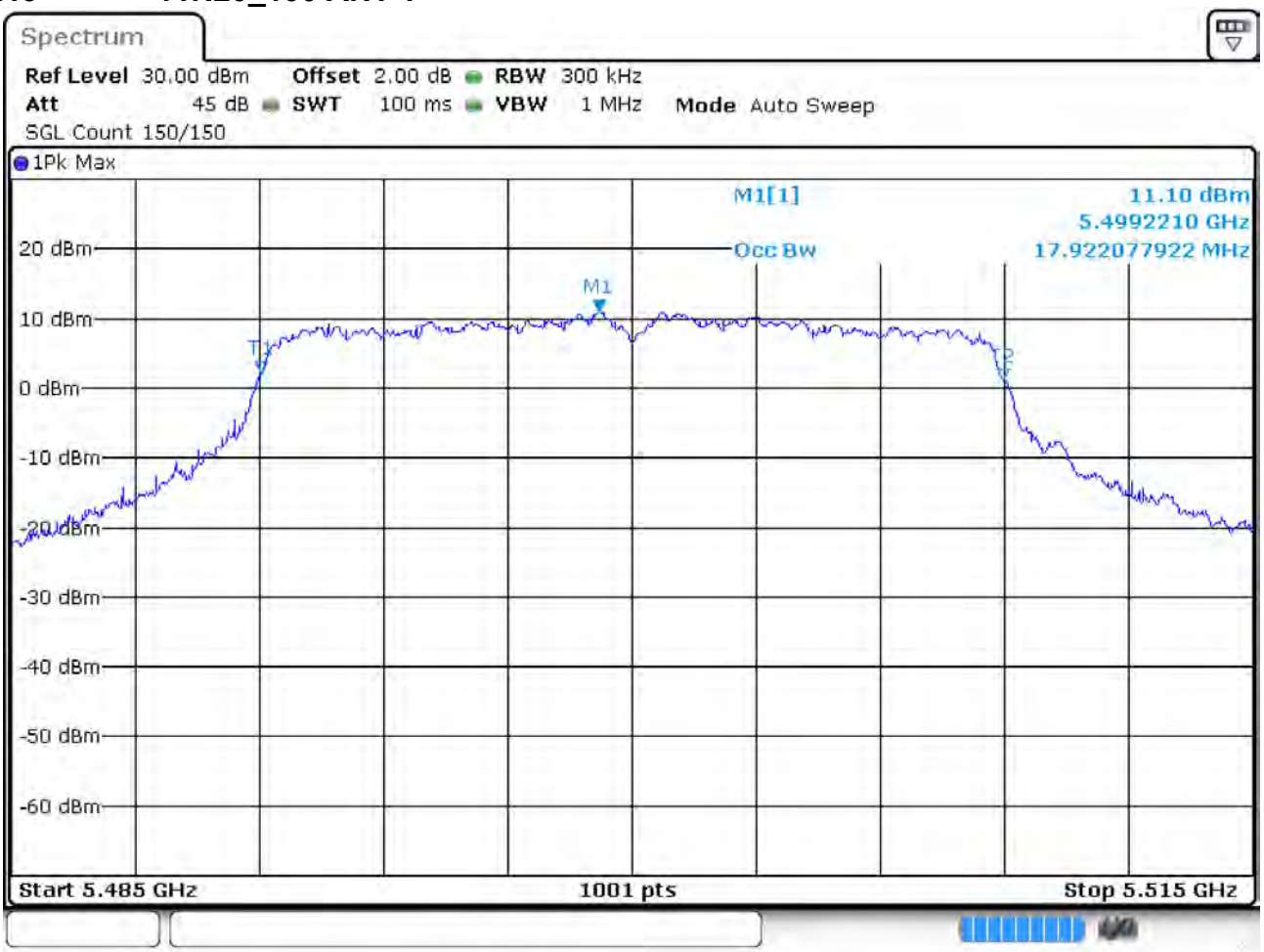

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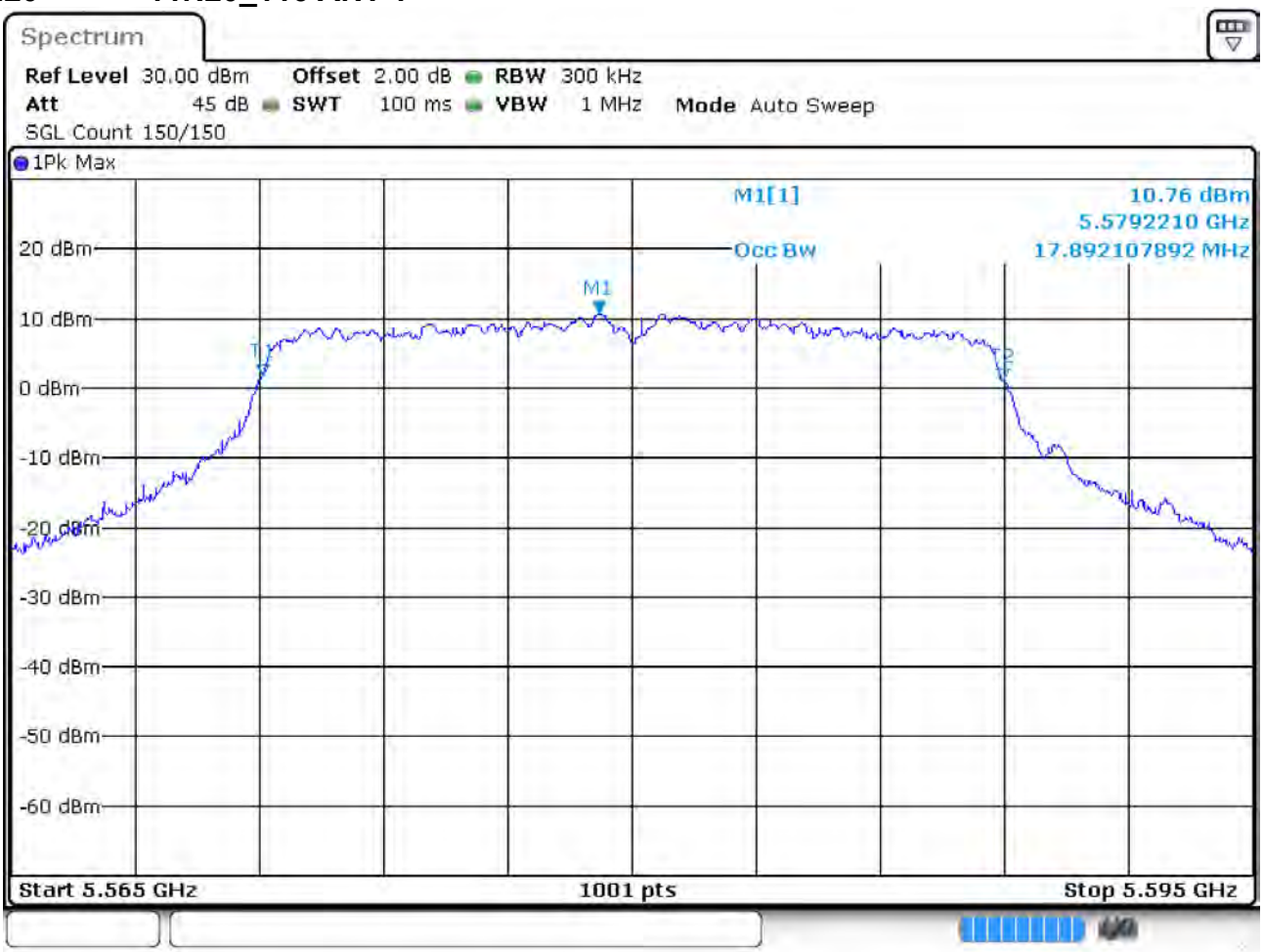

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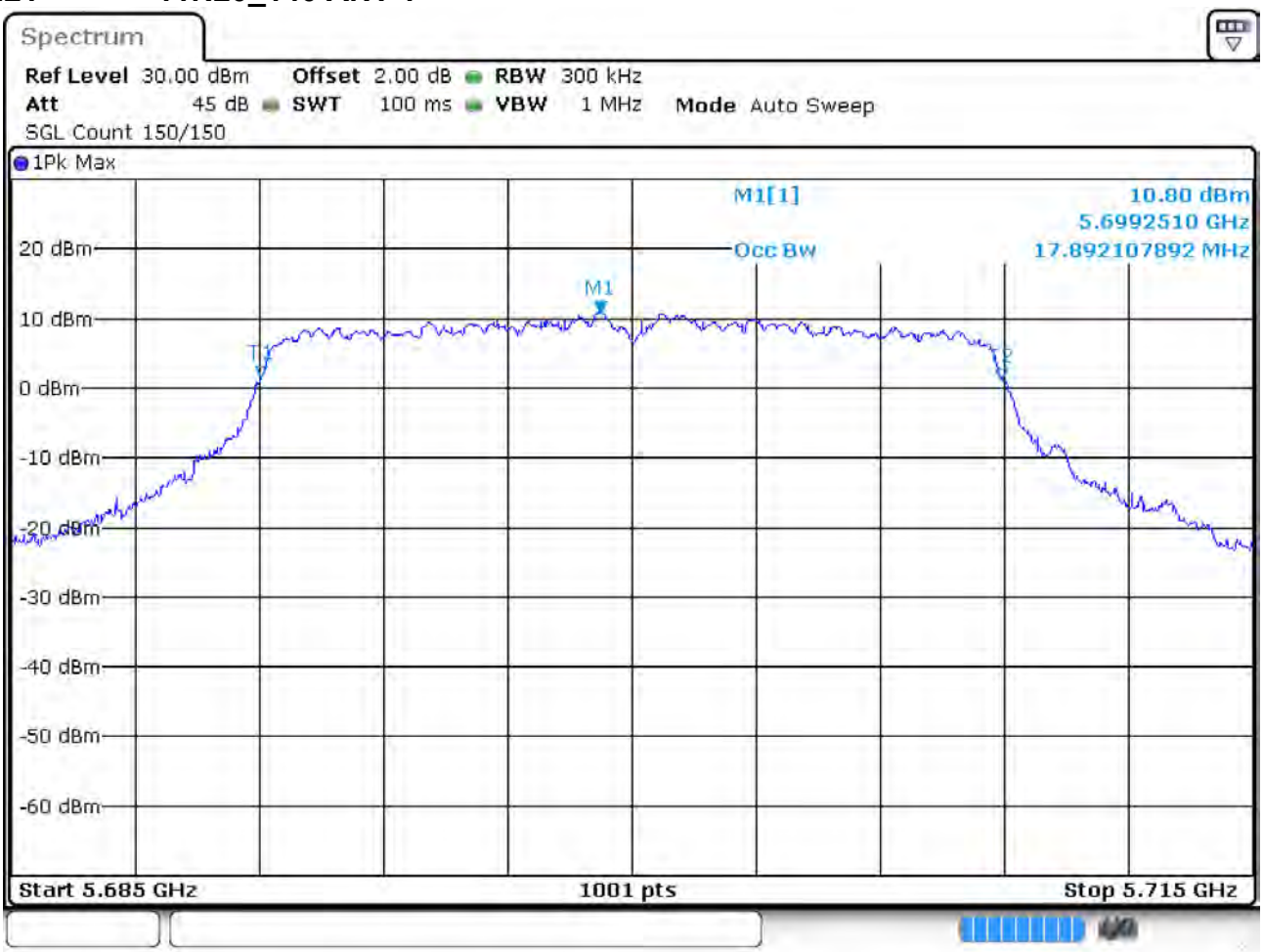
4.7.2.21 11N20_140 ANT 1



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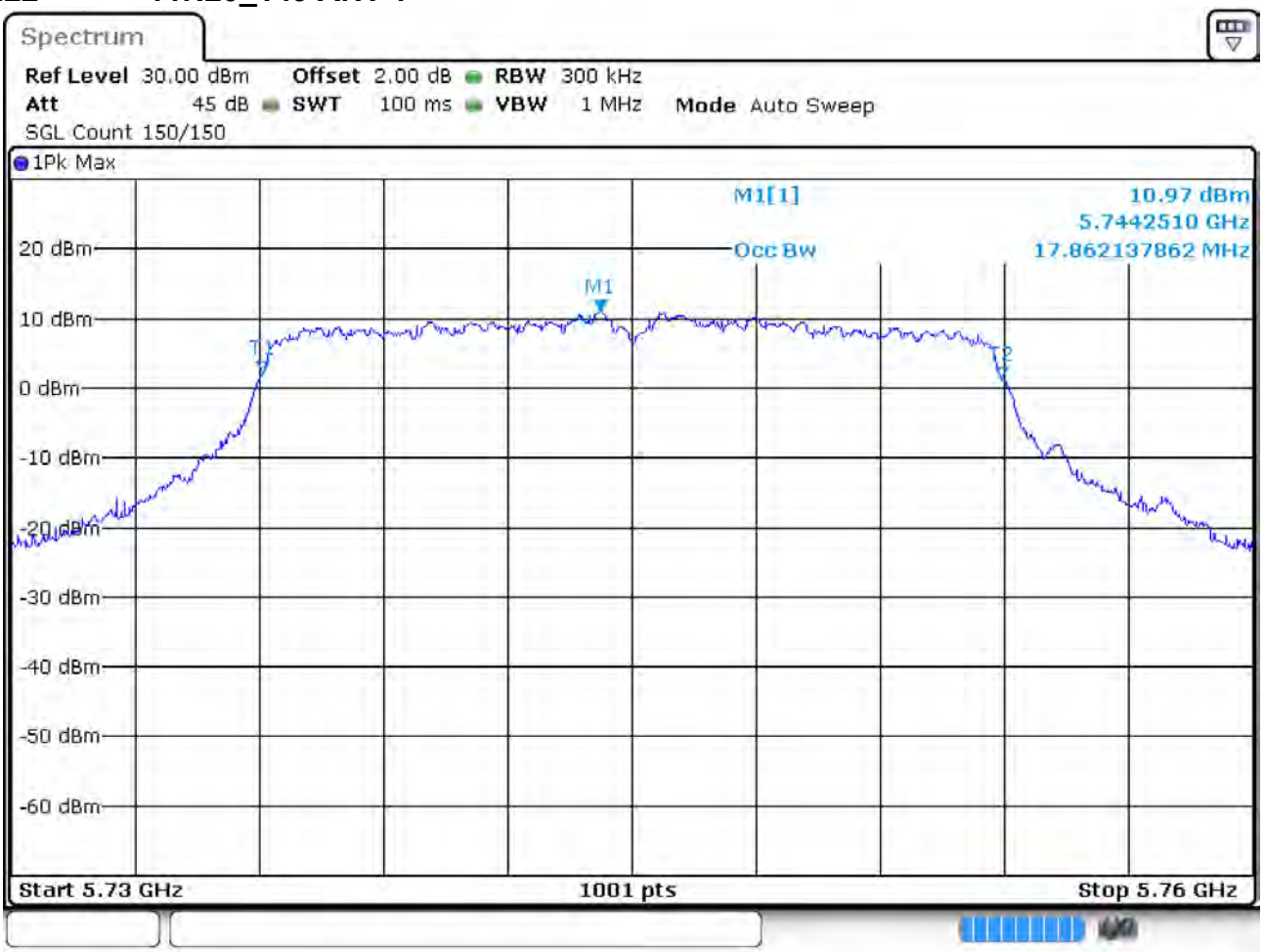

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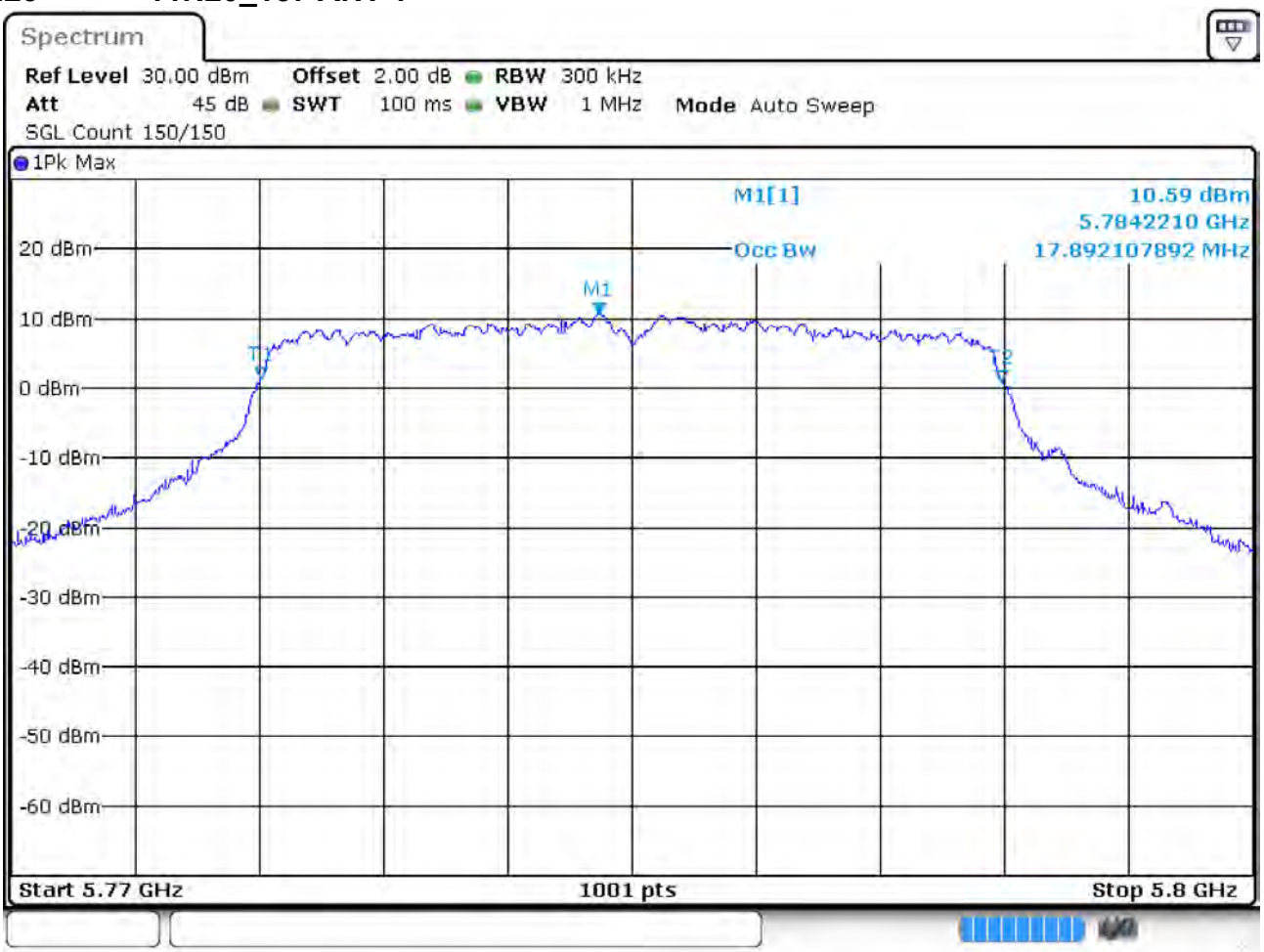

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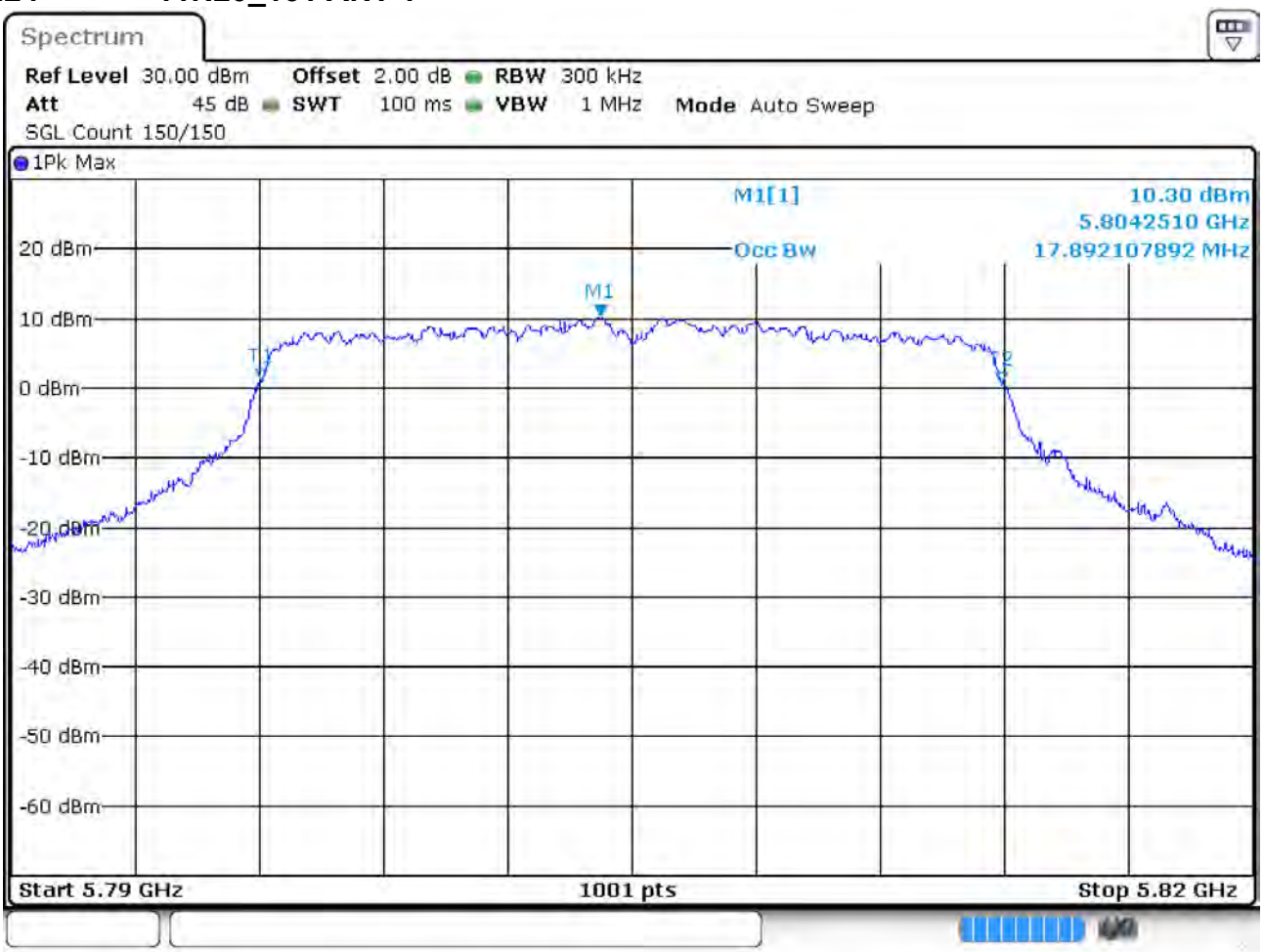
4.7.2.24 11N20_161 ANT 1



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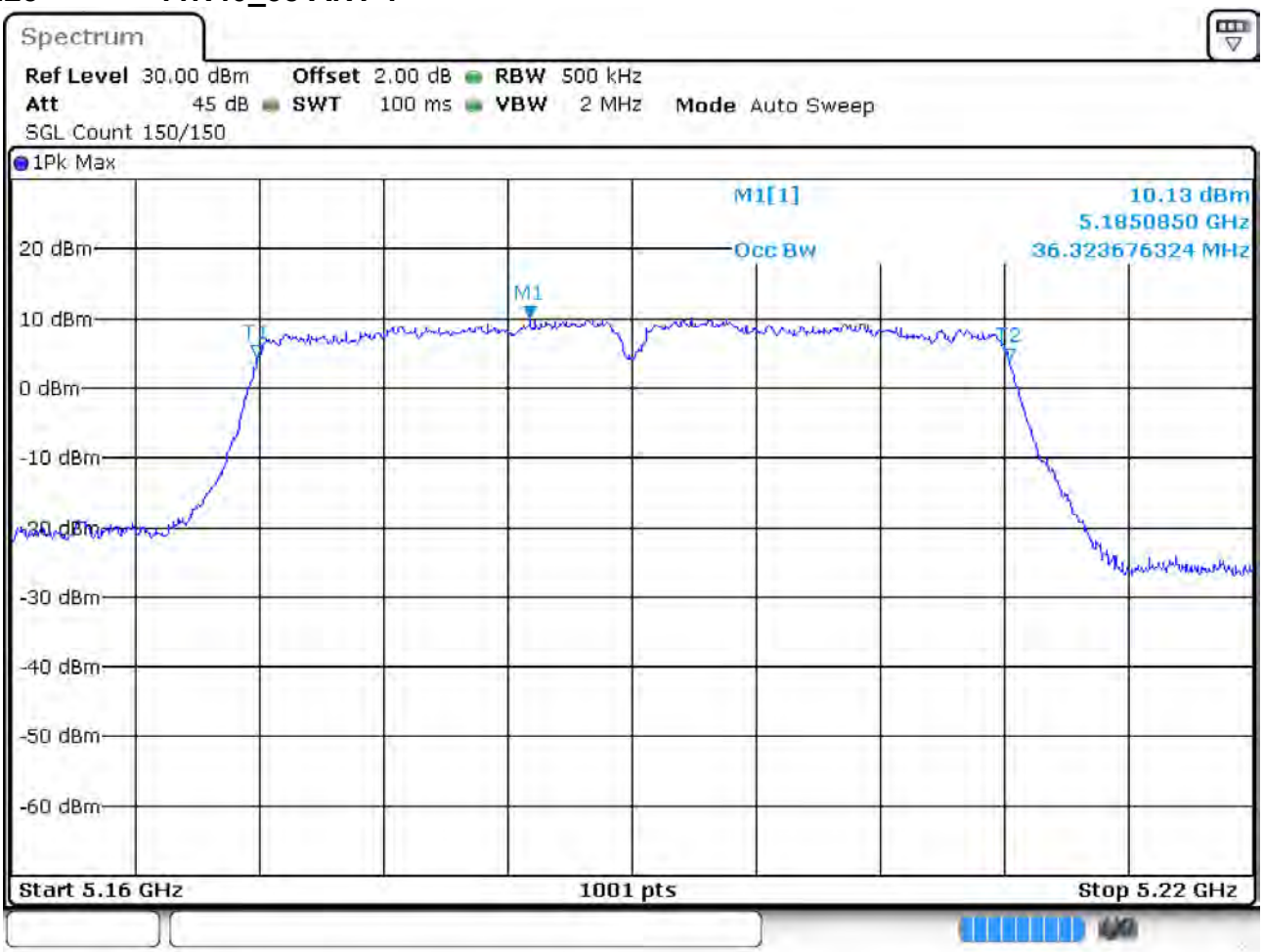
4.7.2.25 11N40_38 ANT 1



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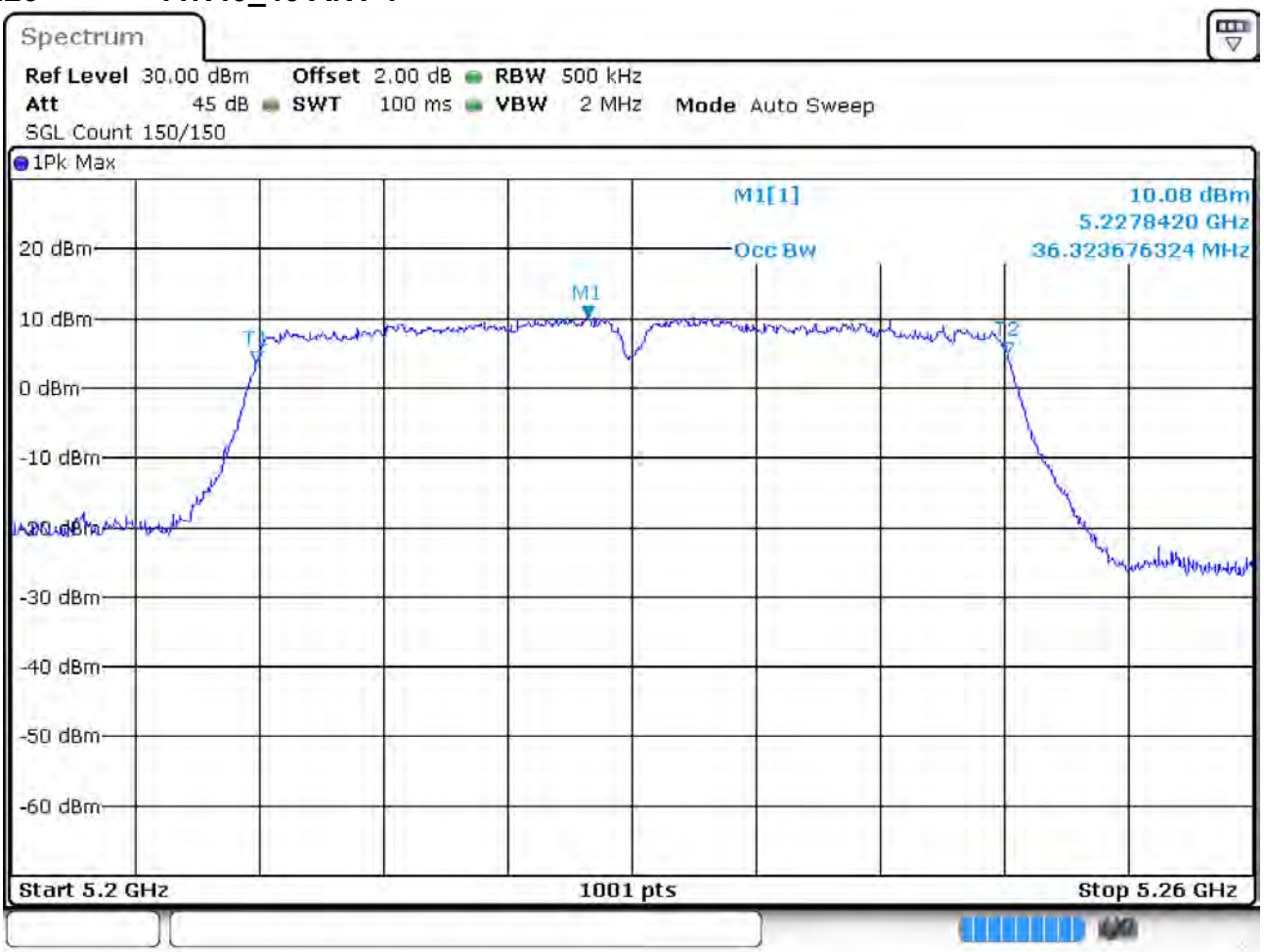
4.7.2.26 11N40_46 ANT 1



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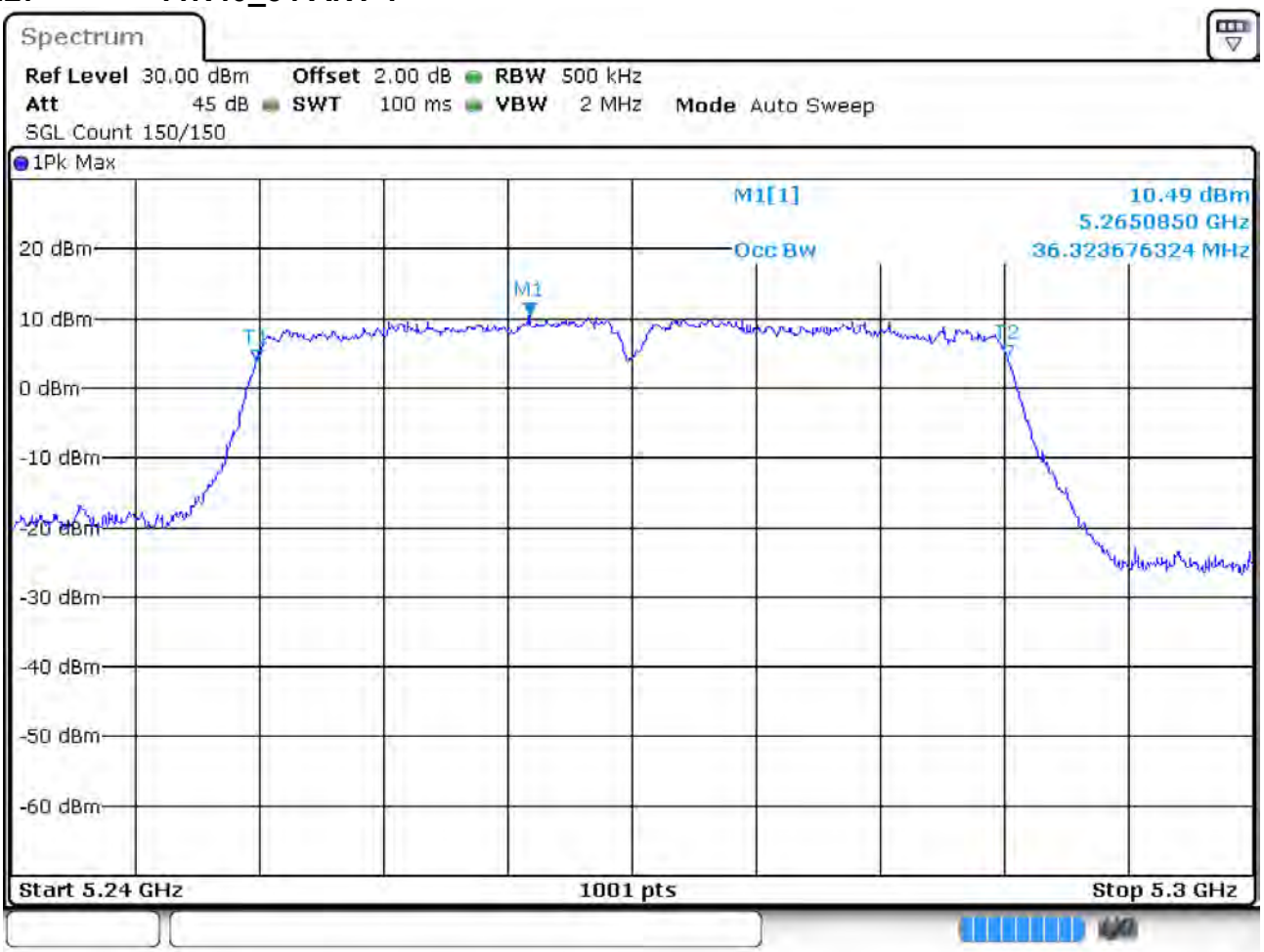
4.7.2.27 11N40_54 ANT 1



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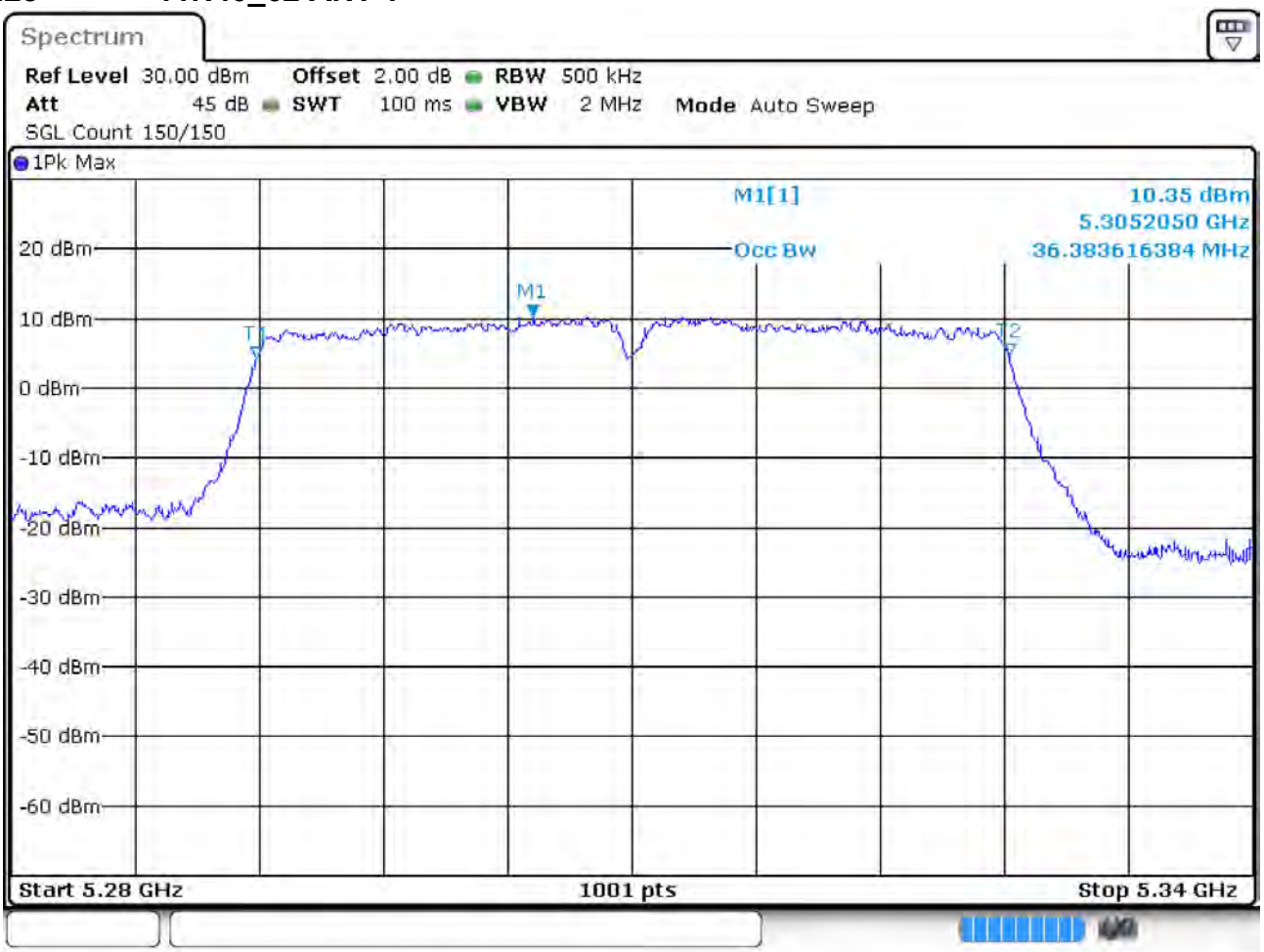
4.7.2.28 11N40_62 ANT 1



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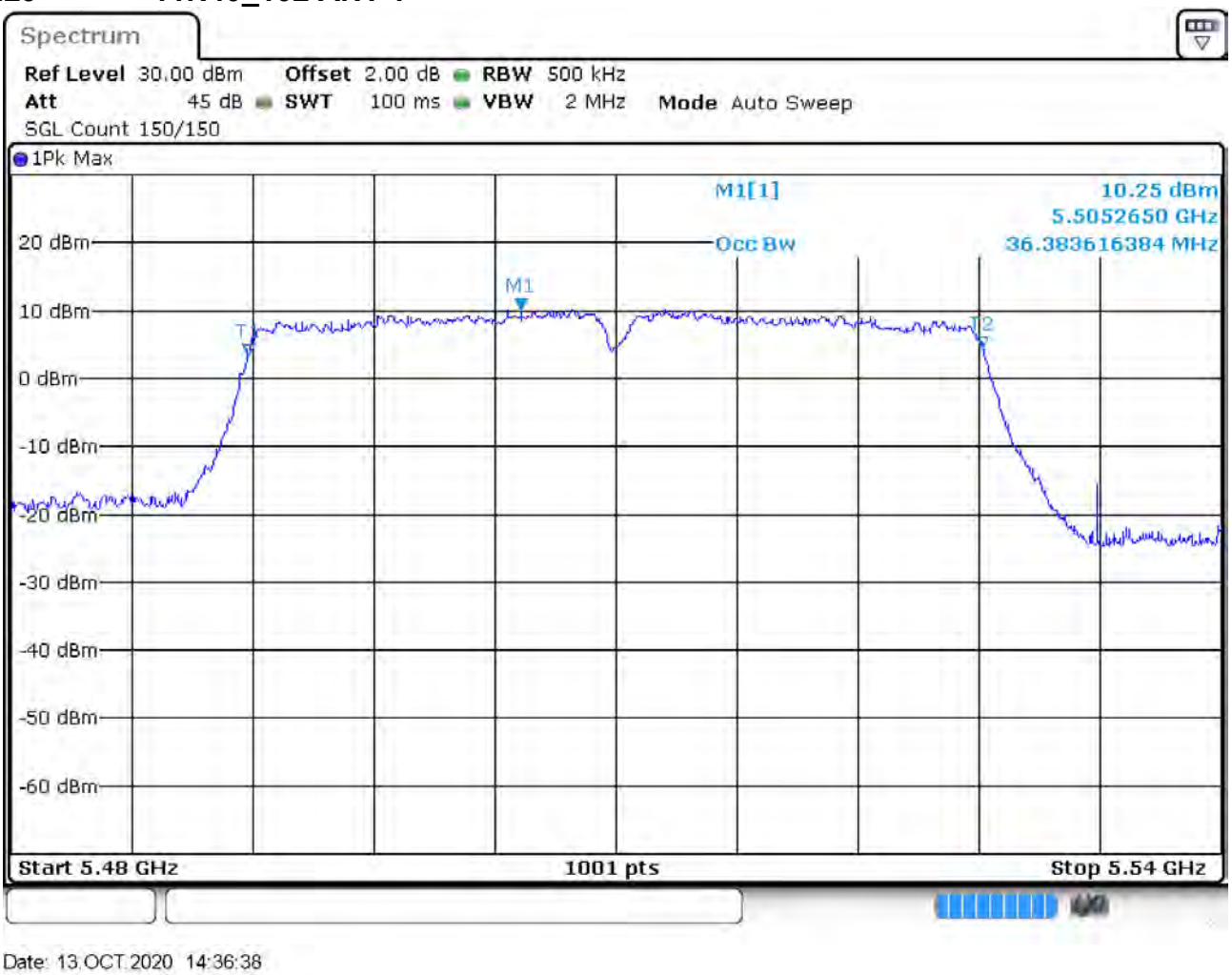
4.7.2.29 11N40_102 ANT 1



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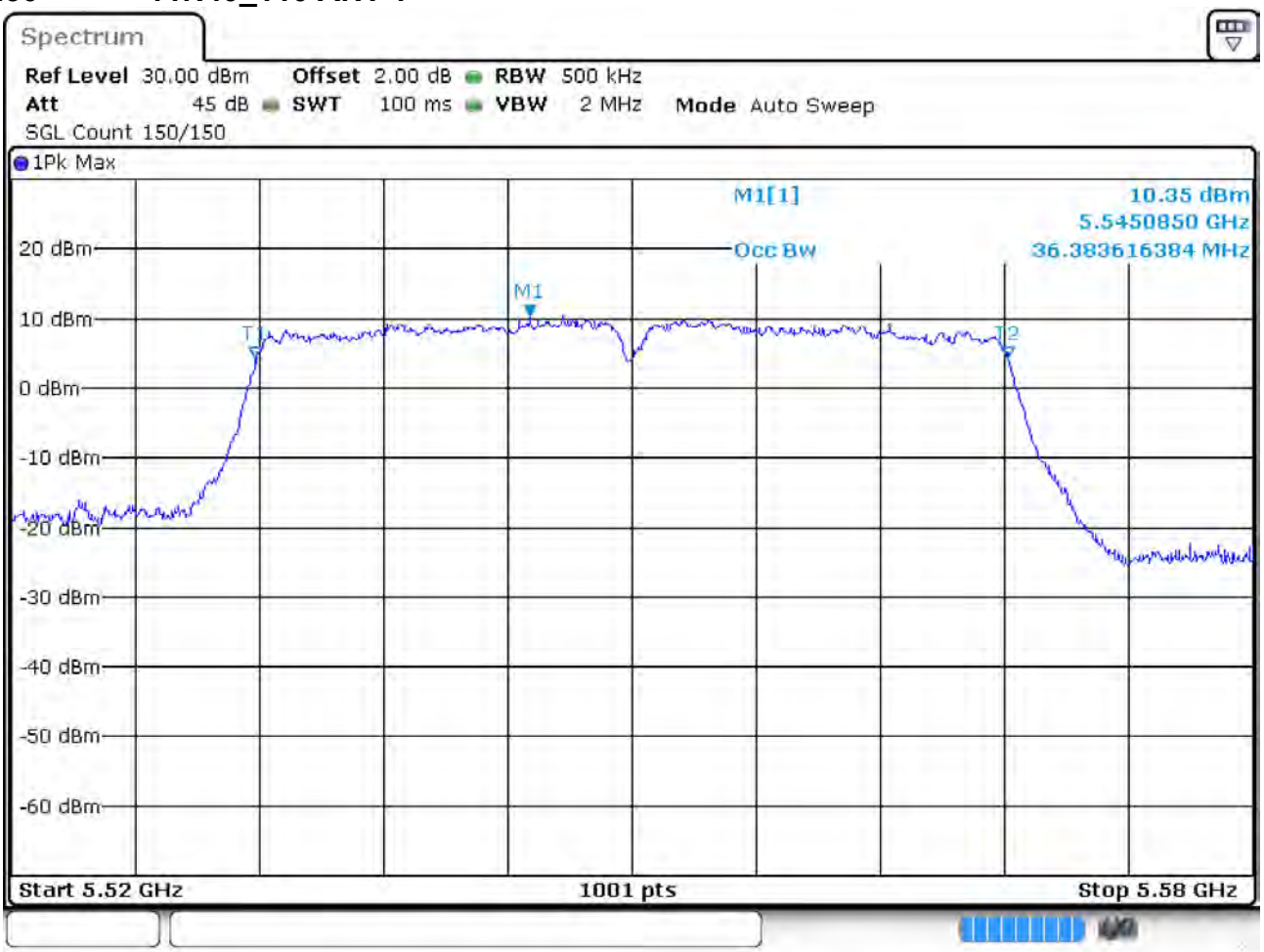
4.7.2.30 11N40_110 ANT 1



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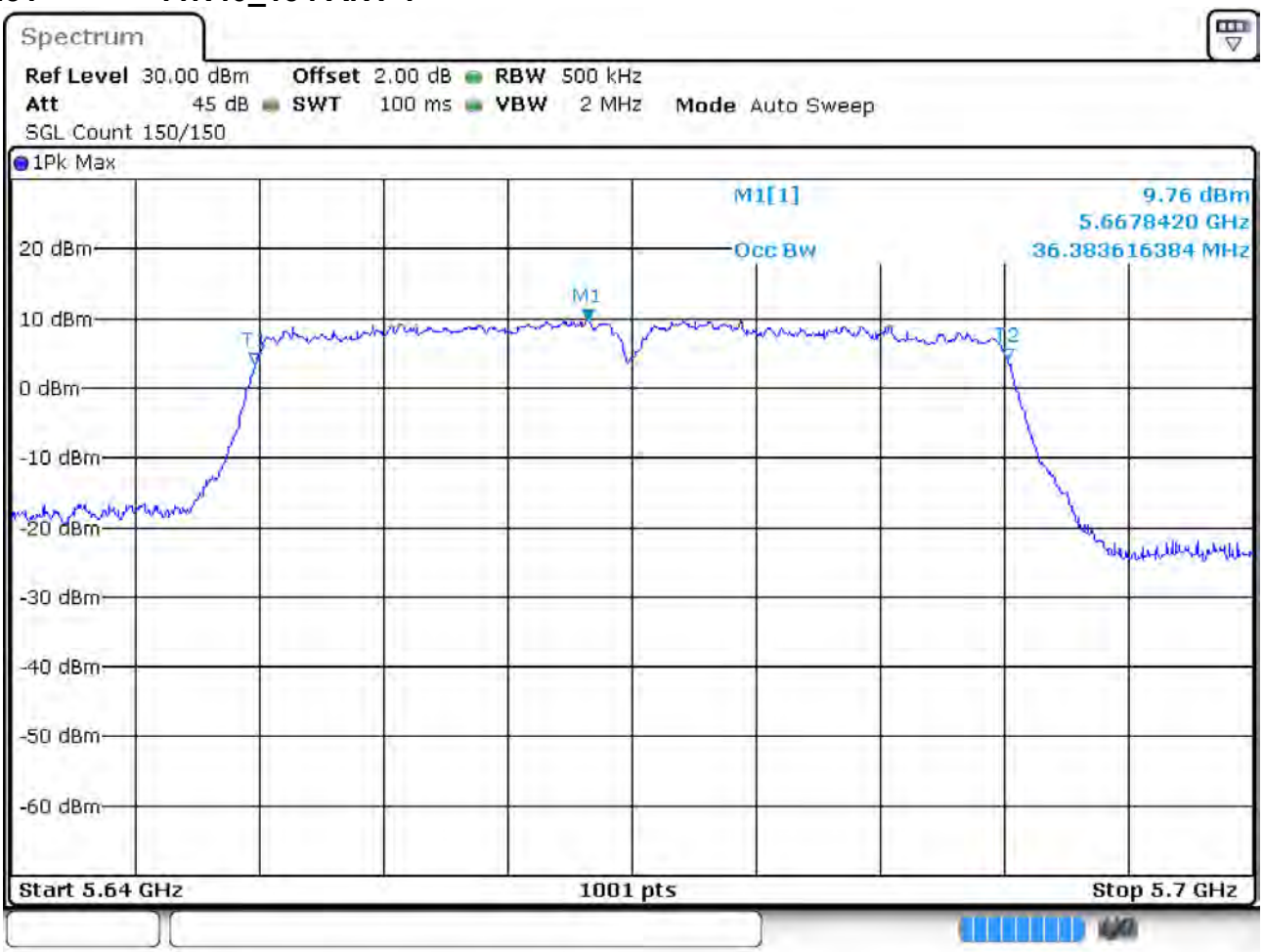
4.7.2.31 11N40_134 ANT 1



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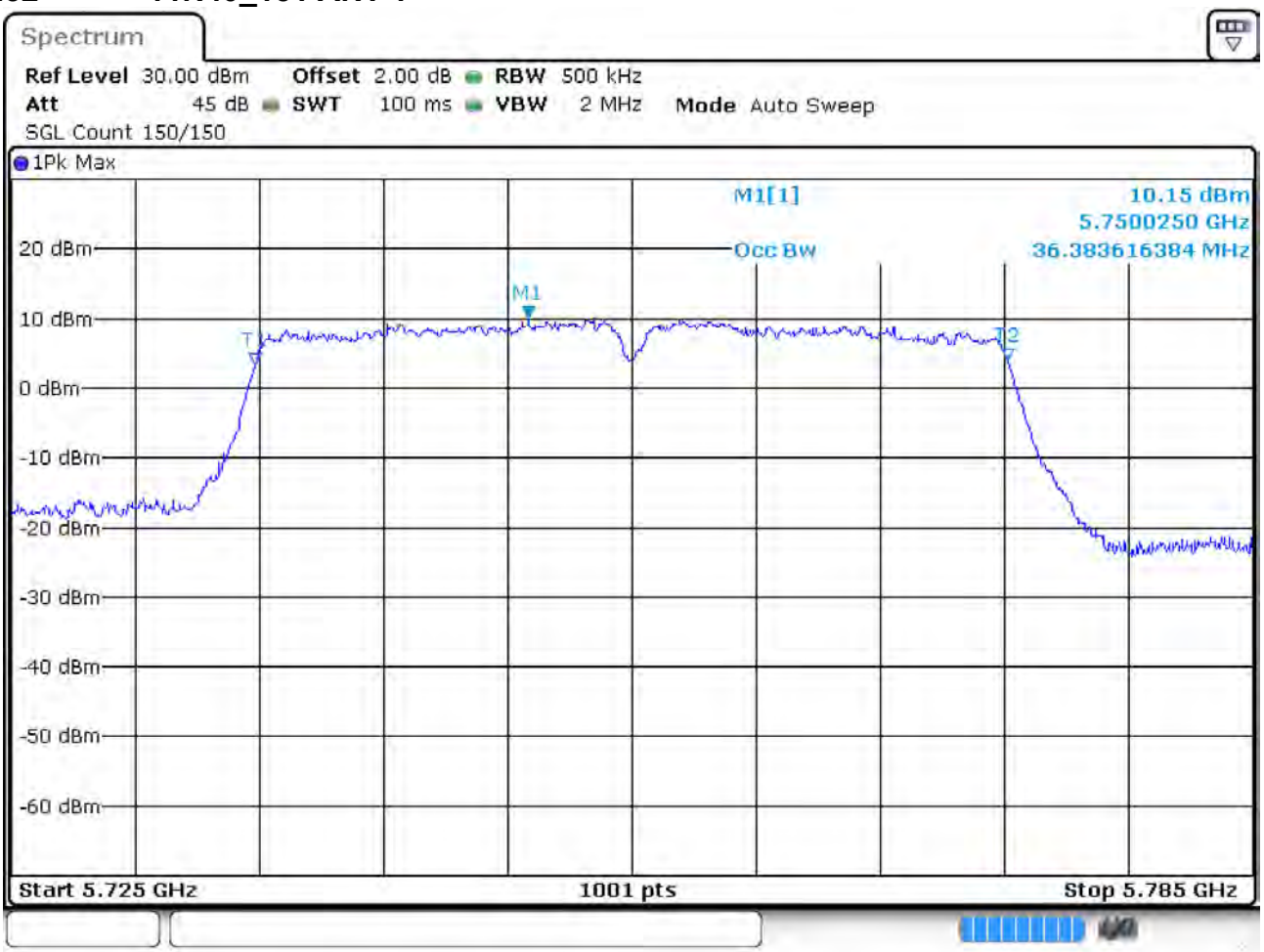
4.7.2.32 11N40_151 ANT 1



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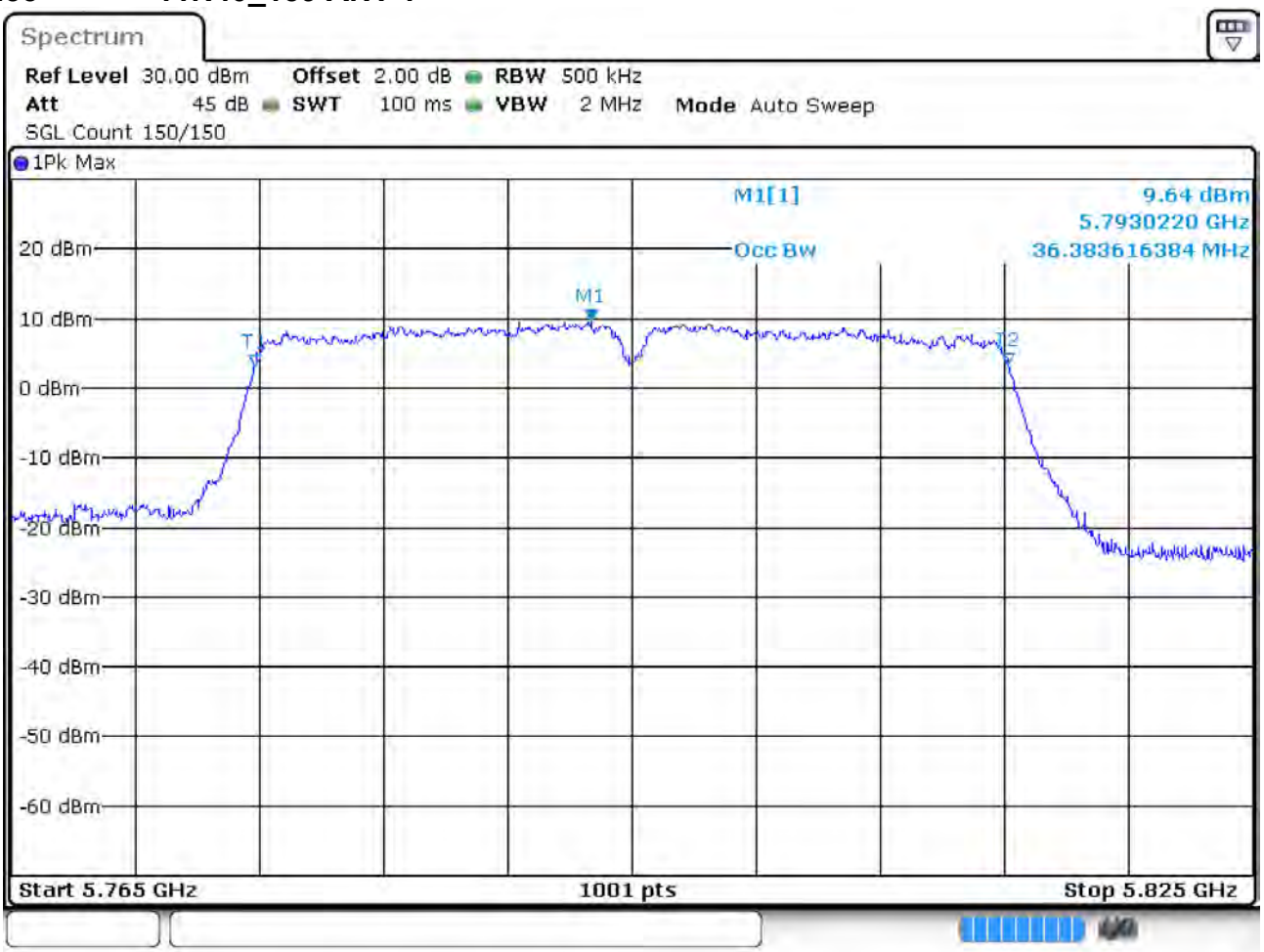
4.7.2.33 11N40_159 ANT 1



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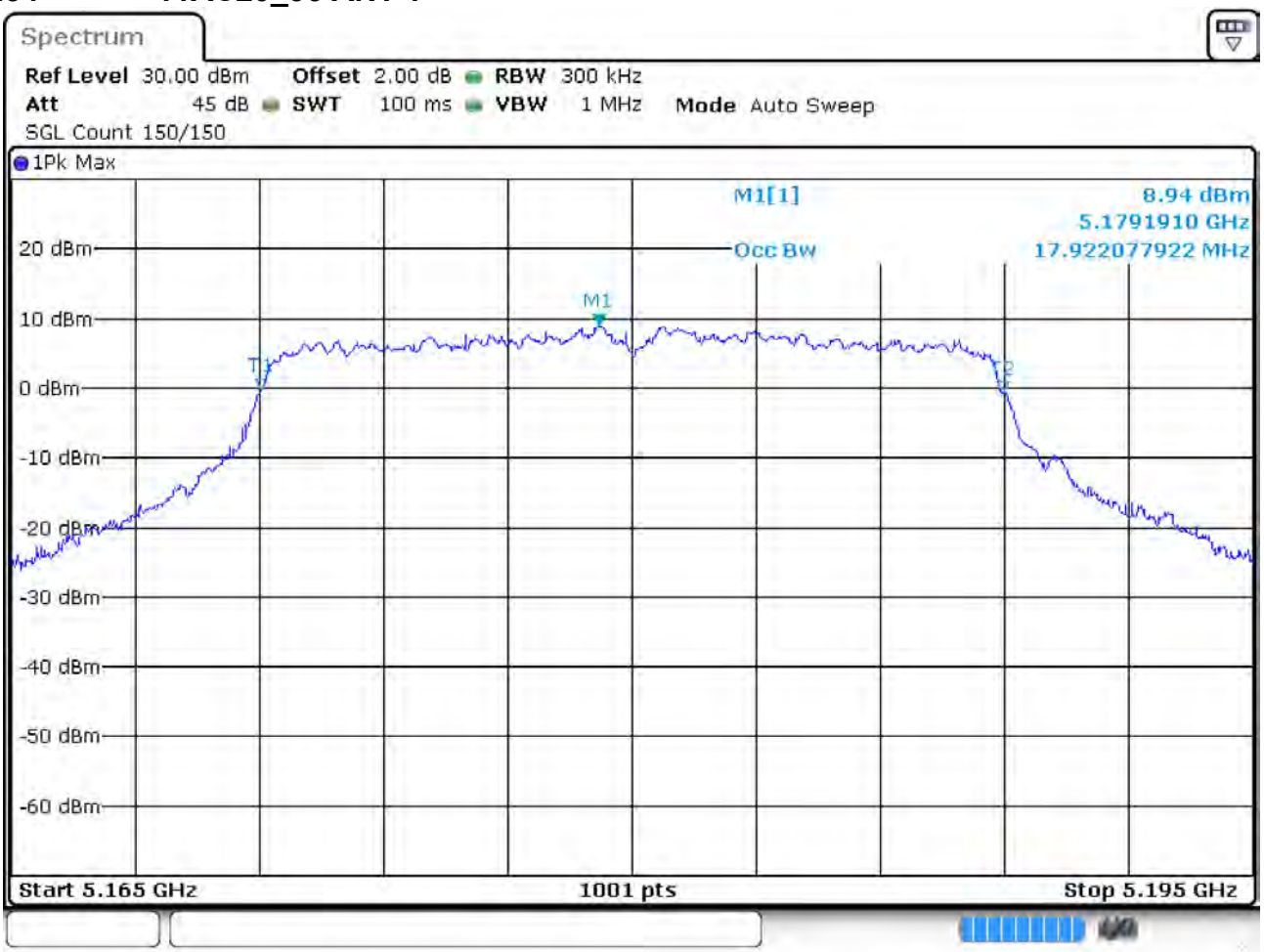
4.7.2.34 11AC20_36 ANT 1



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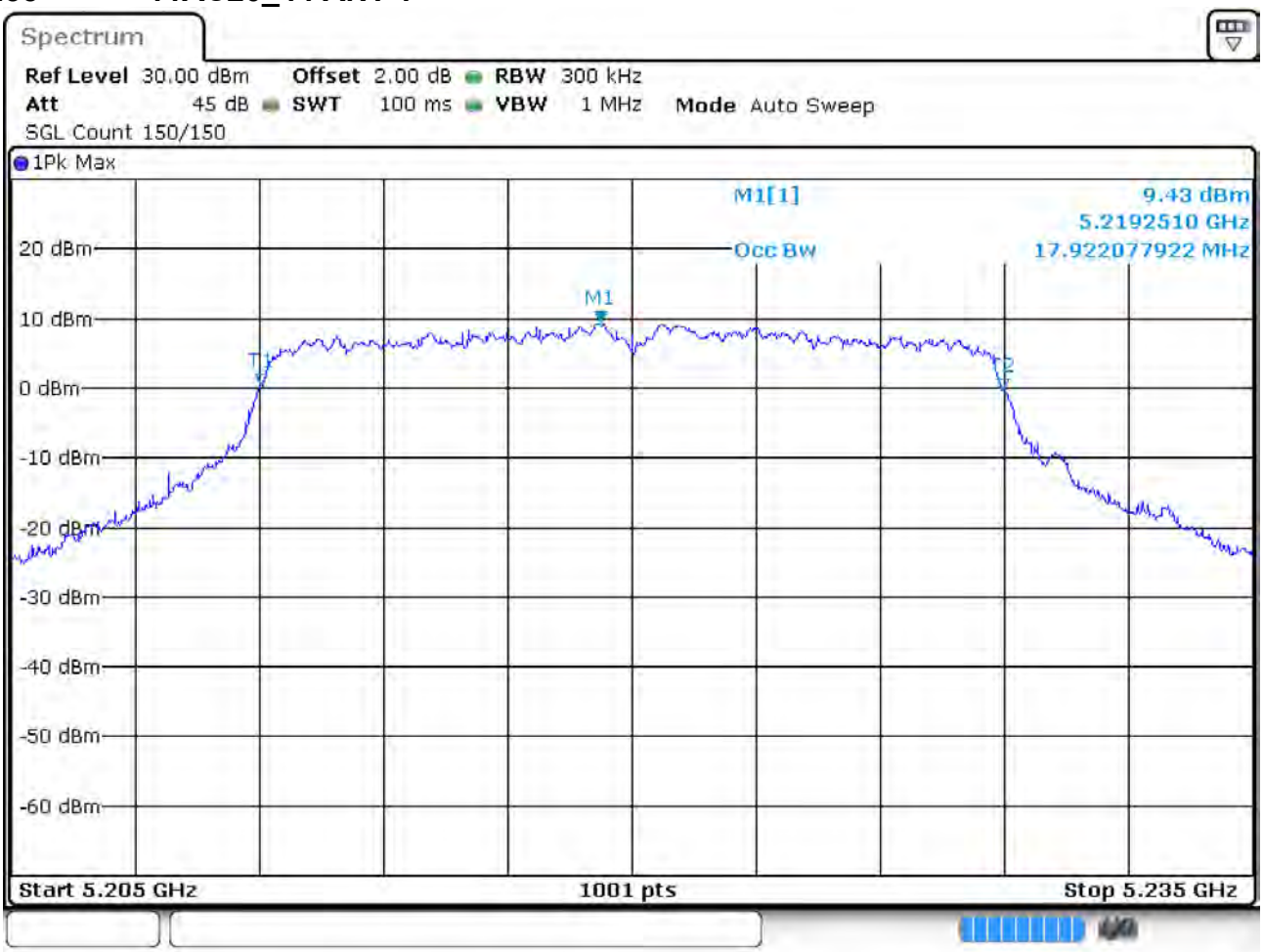
4.7.2.35 11AC20_44 ANT 1



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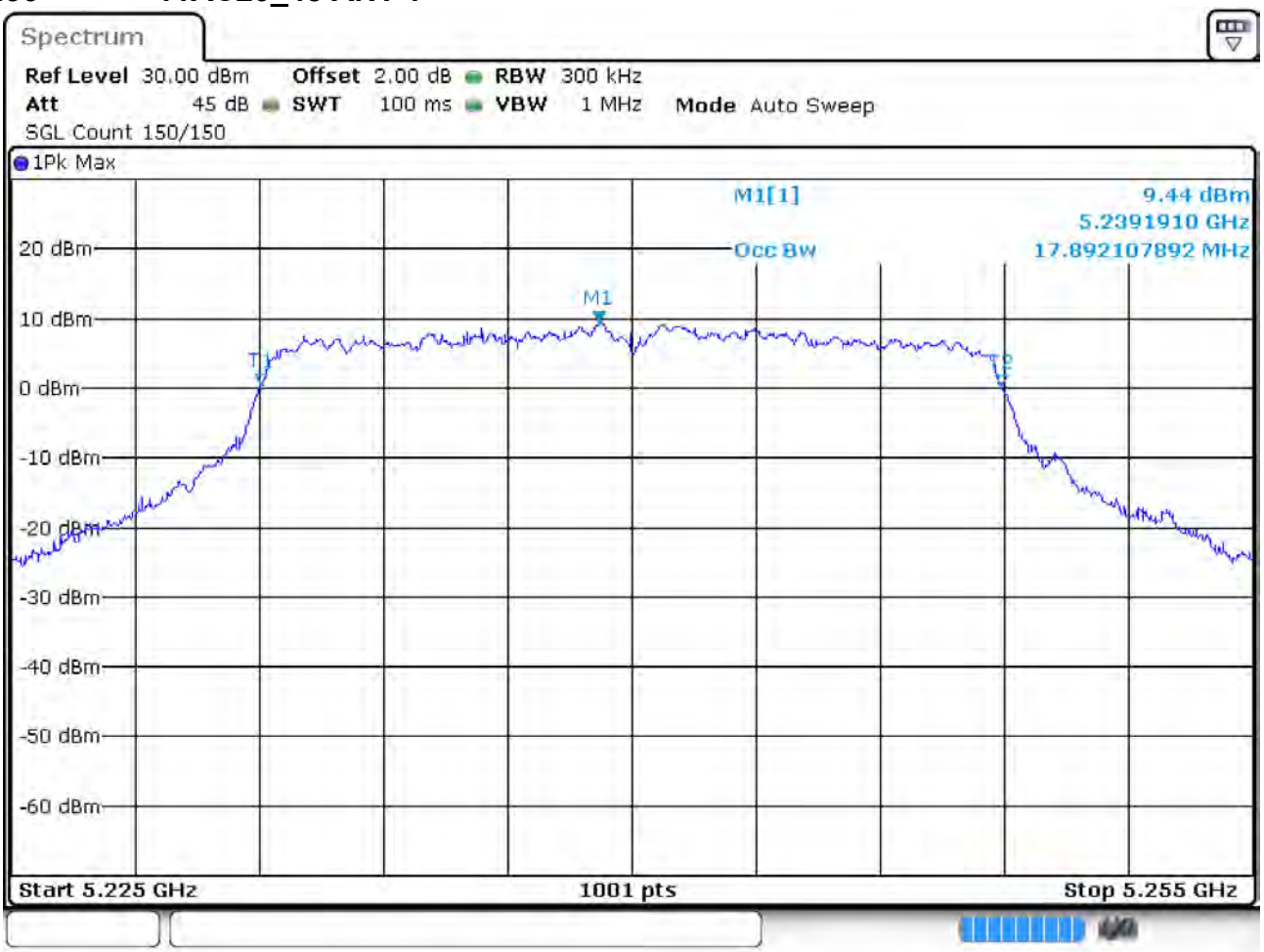
4.7.2.36 11AC20_48 ANT 1



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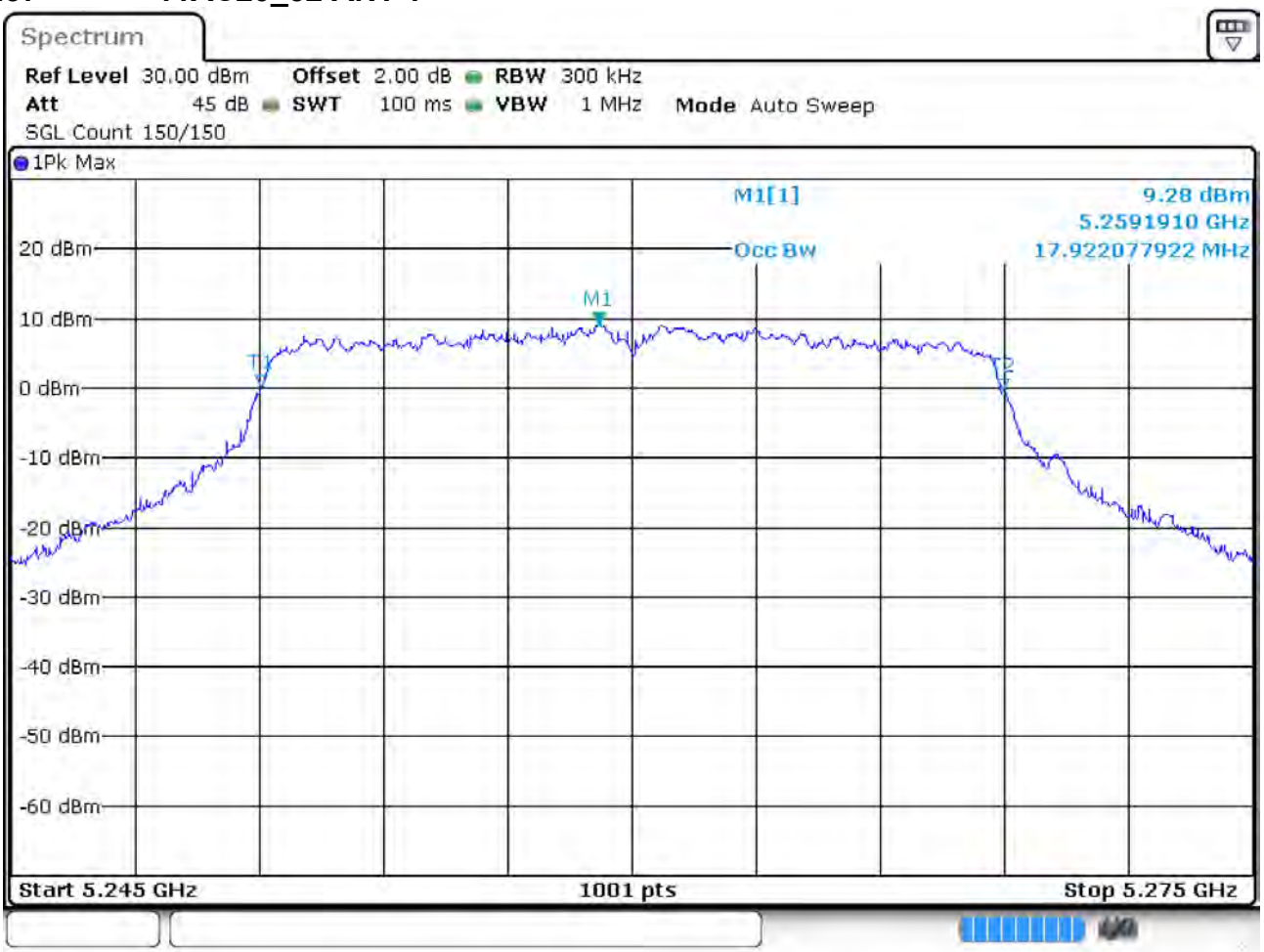
4.7.2.37 11AC20_52 ANT 1



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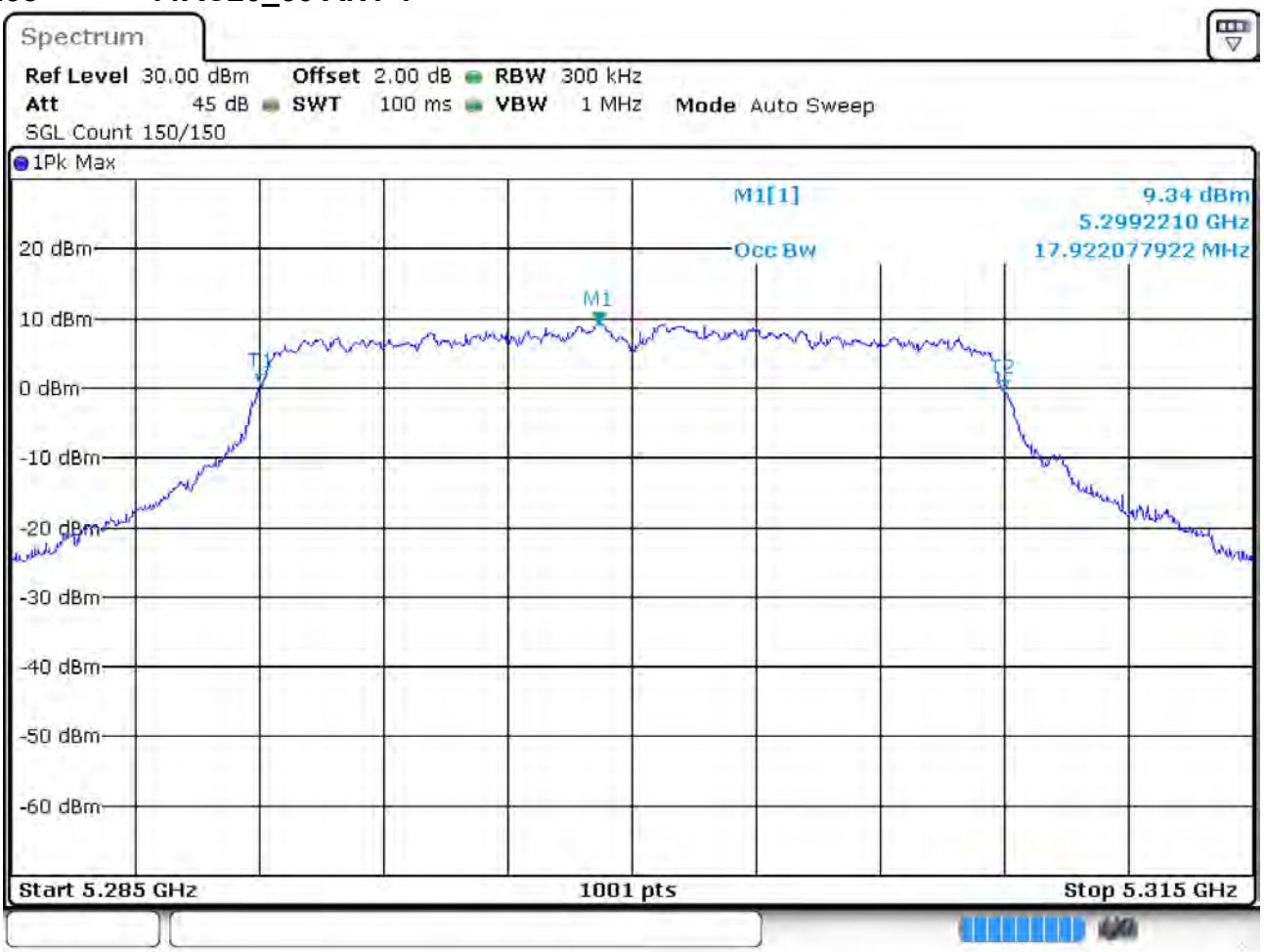
4.7.2.38 11AC20_60 ANT 1



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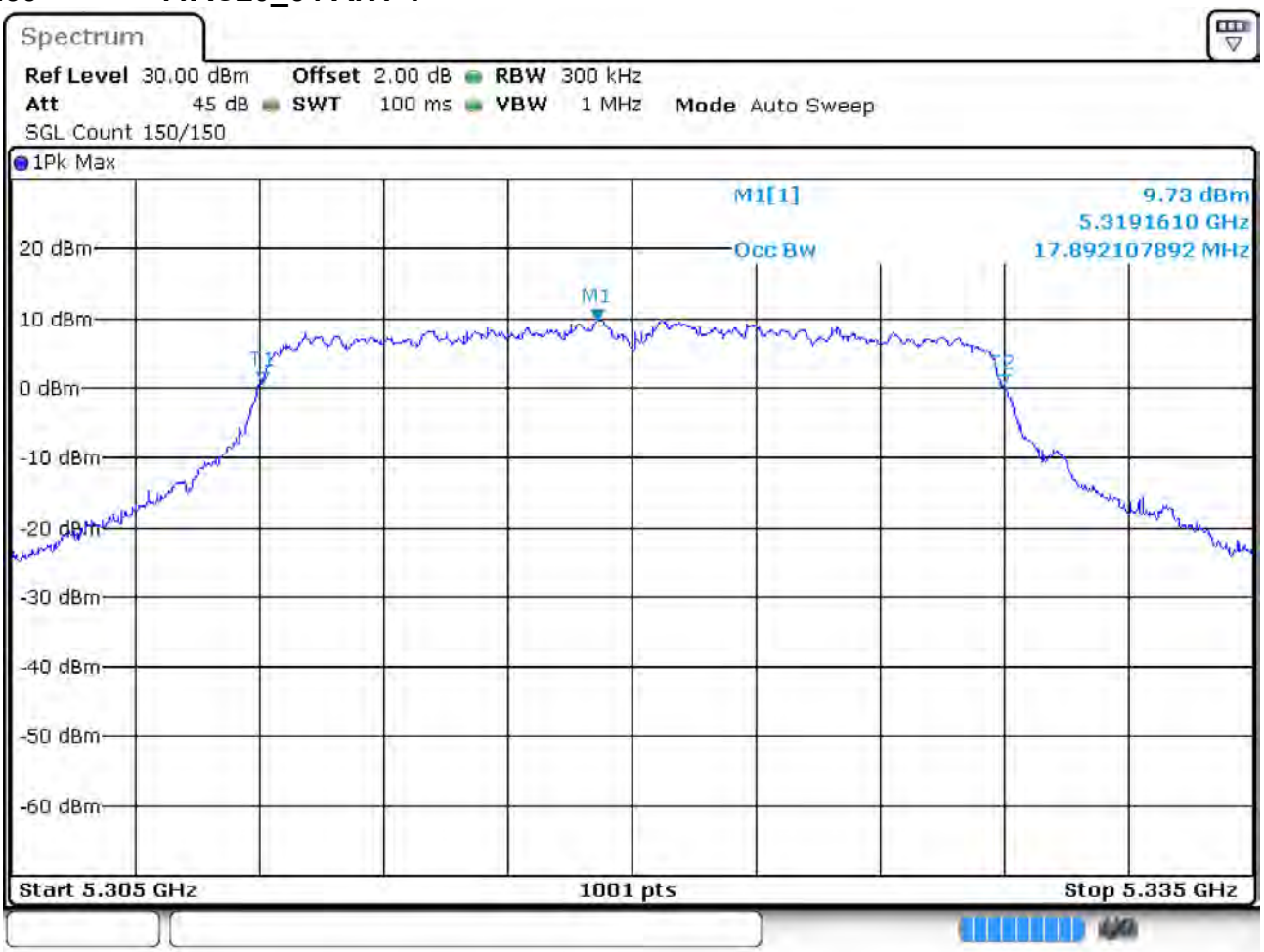
4.7.2.39 11AC20_64 ANT 1



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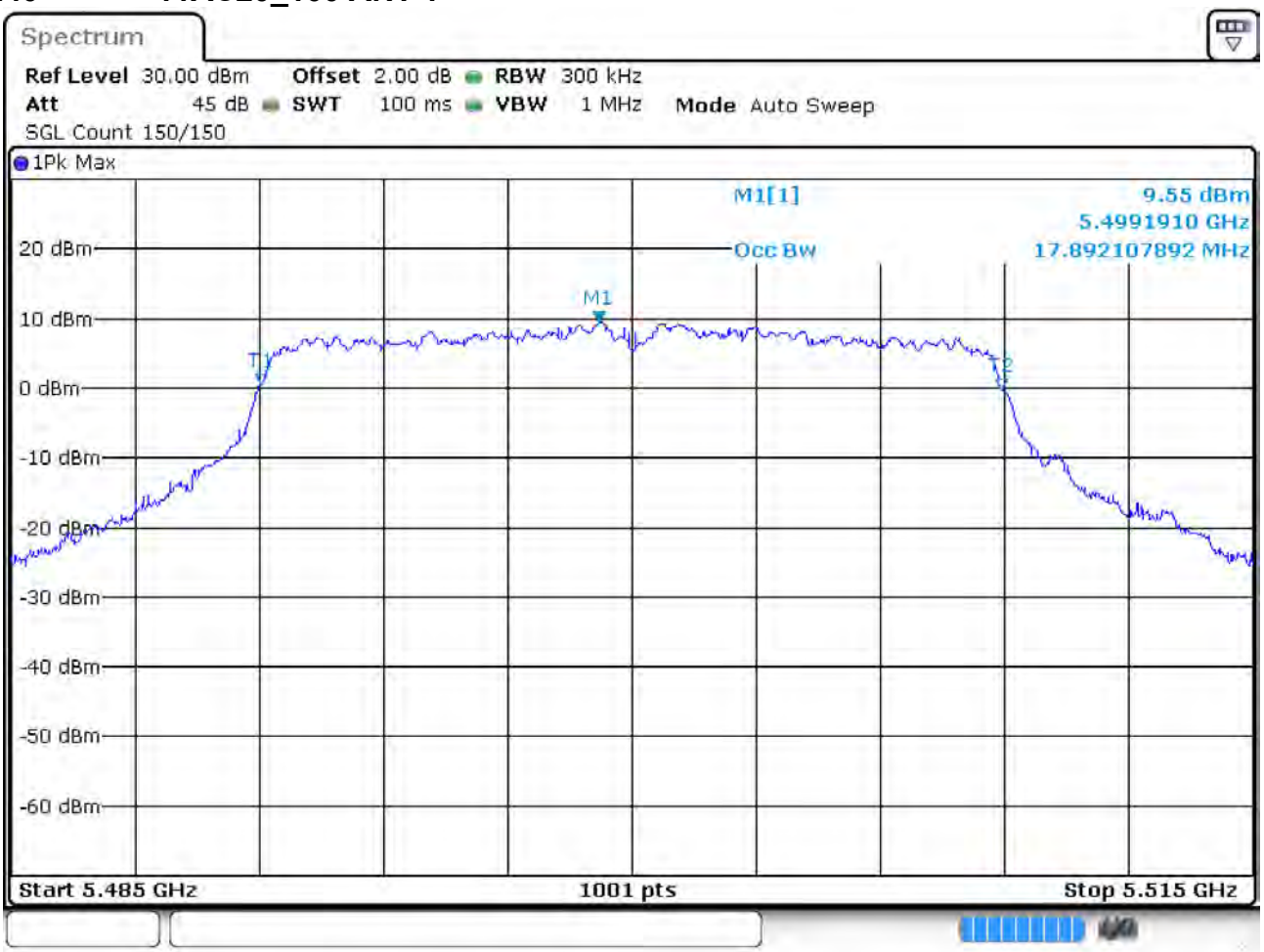
4.7.2.40 11AC20_100 ANT 1



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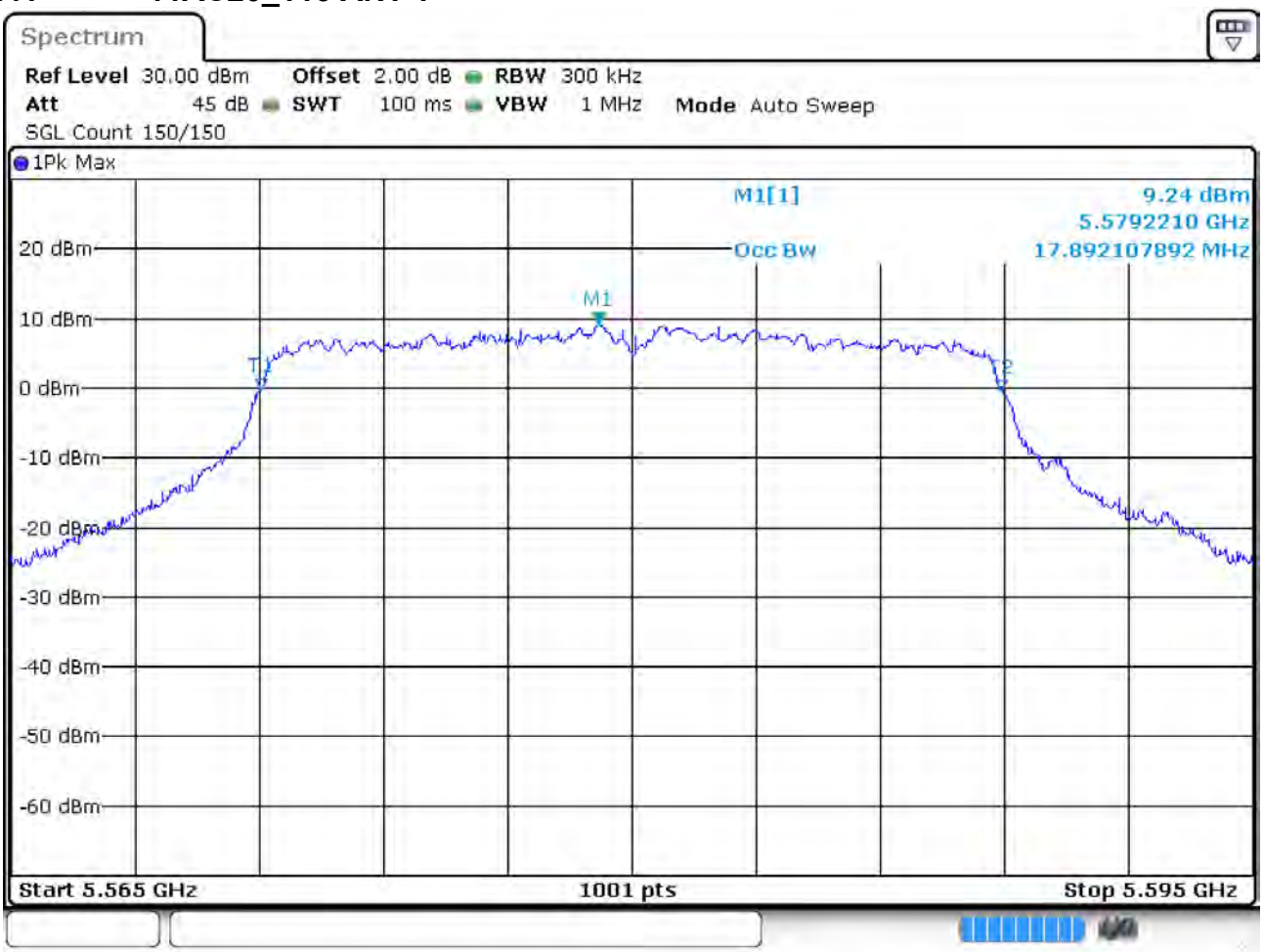
4.7.2.41 11AC20_116 ANT 1



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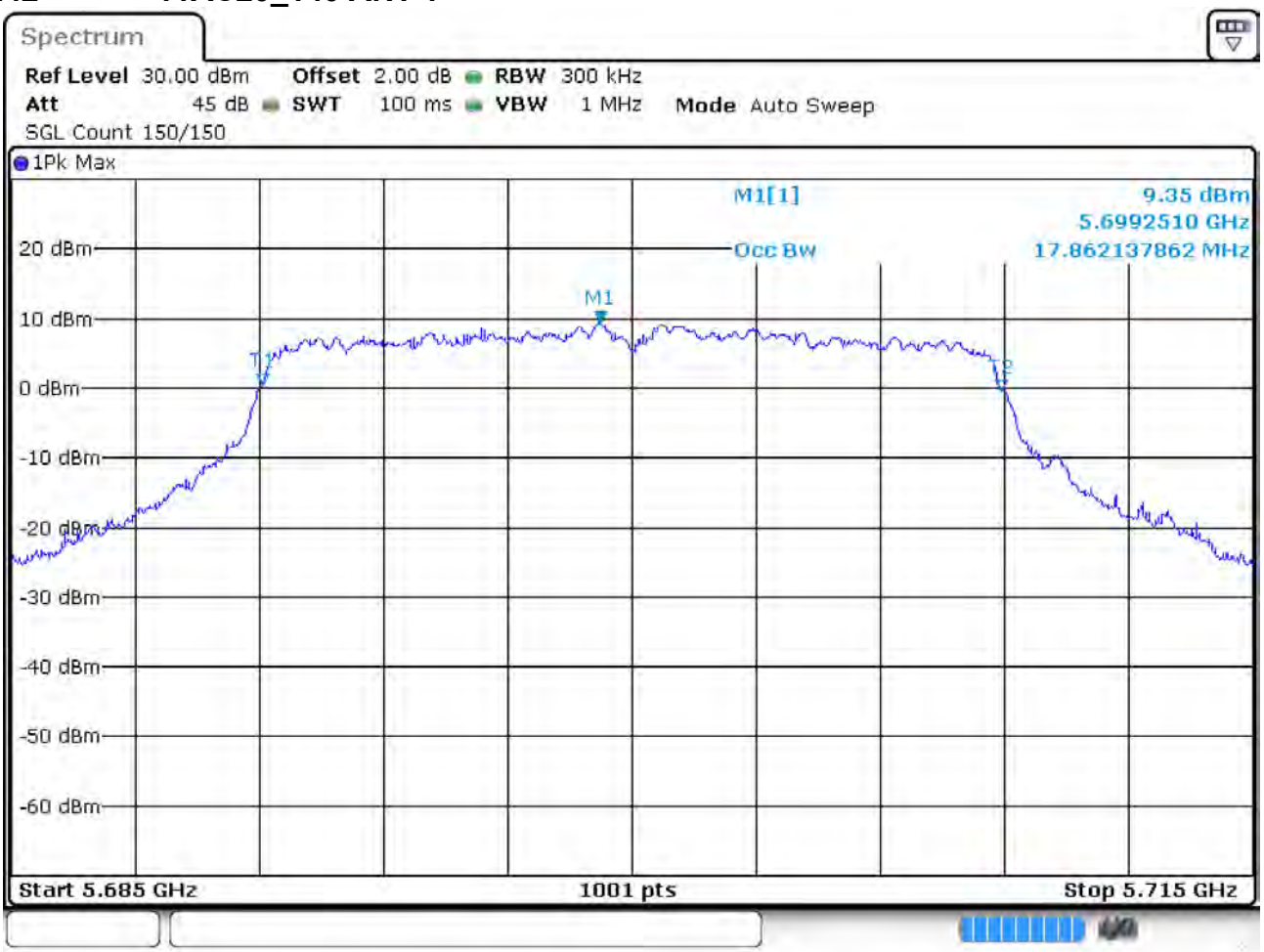
4.7.2.42 11AC20_140 ANT 1



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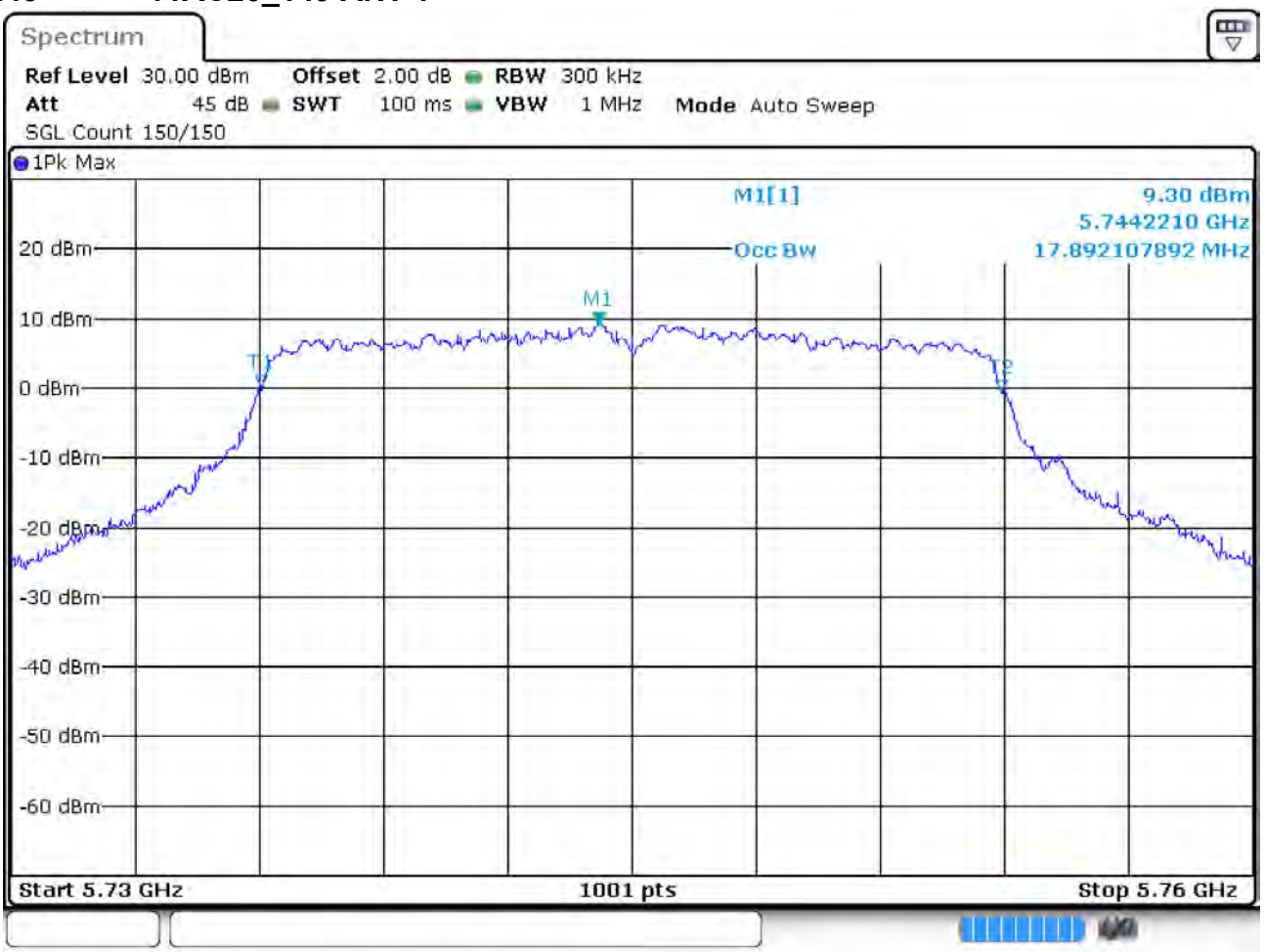
4.7.2.43 11AC20_149 ANT 1



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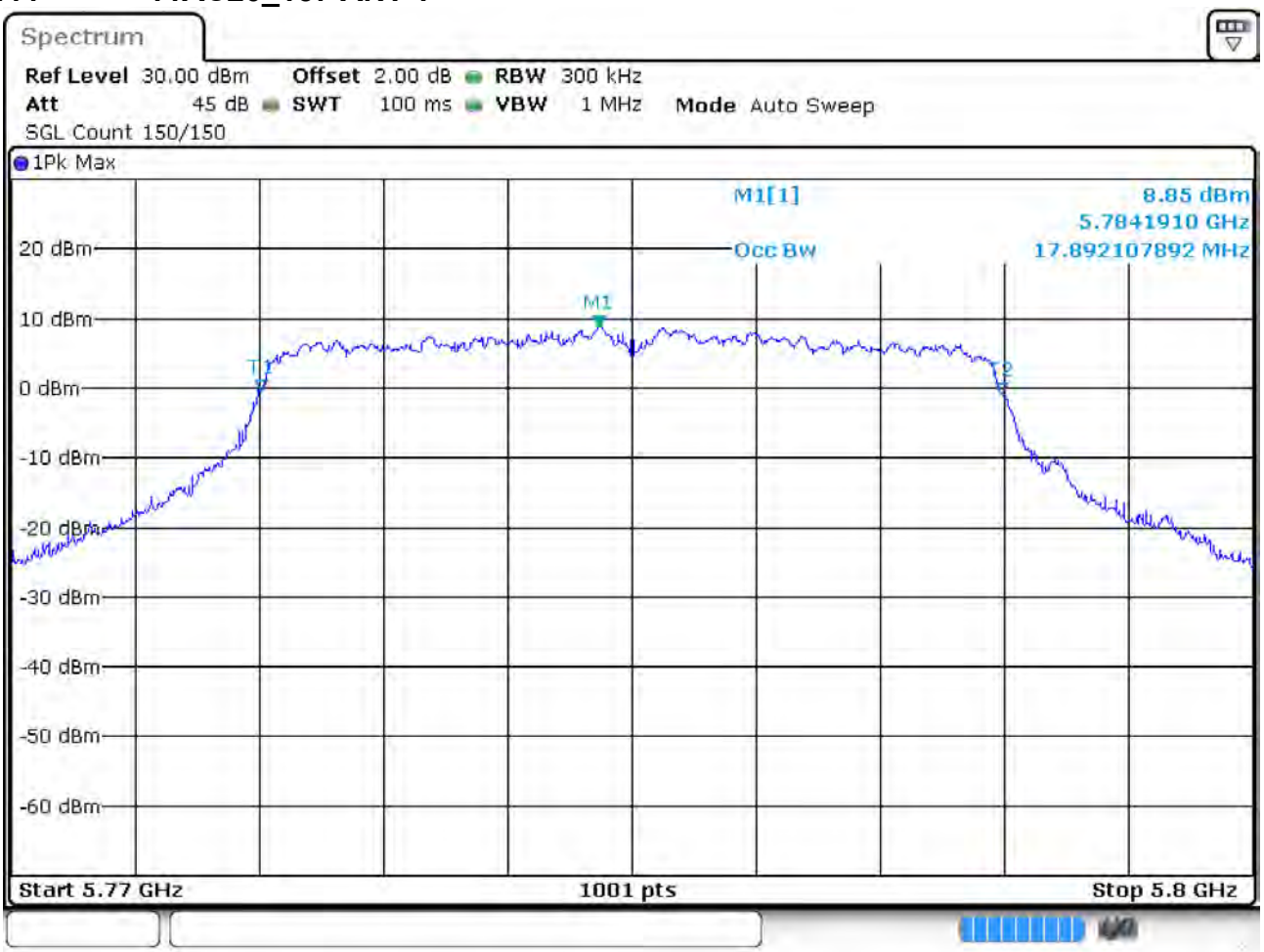
4.7.2.44 11AC20_157 ANT 1



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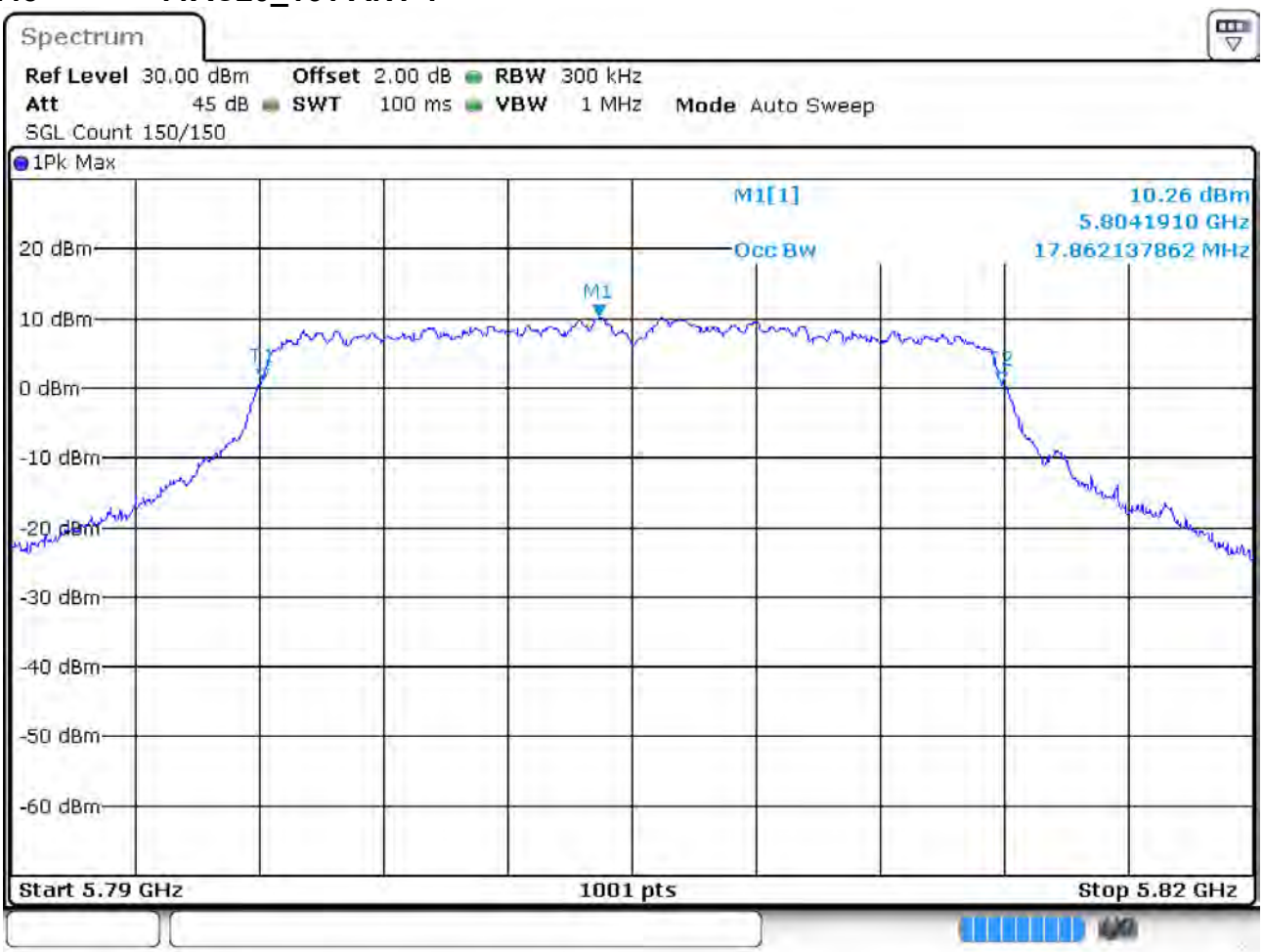
4.7.2.45 11AC20_161 ANT 1



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