



FCC TEST REPORT

Application No: ZR/2020/70006
Applicant: LG Electronics USA, Inc
Address of Applicant: 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer: Huaqin Telecom Technology Co.,Ltd.
Address of Manufacturer: No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China
EUT Description: Mobile handset
Model No.: LM-K520HMW, LM-K520HM, LM-K525HMW, LM-K525HM
Trade Mark: LG
FCC ID: ZNFK520HMW
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR FCC Part 15, Subpart C
 47 CFR FCC Part 15, Subpart E
 KDB 789033 D02 General UNII Test Procedures New Rules v02
 FCC KDB 558074 D01 DTS Meas Guidance v0502
 KDB 662911 D01 Multiple Transmitter Output v02r01
Test Method: KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
 KDB 905462 D03 Client Without DFS New Rules v01r02
 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices
Date of Receipt: 2020/7/10
Date of Test: 2020/7/10 to 2020/8/20
Date of Issue: 2021/5/2

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

Authorized Signature:

Derek Yang
Wireless Laboratory Manager



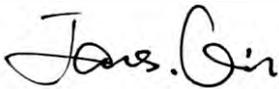
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/8/20		Original
02		2021/5/2	James Qin	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

*This report supersedes our previous report ZR/2020/7000607, issued on 2020-08-13, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	 (James Qin) / Engineer
Checked By	 (David Chen) / Reviewer





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2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.4 Clause 4.5	Pass	A
	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.	Clause 4.3 Clause 4.6	Pass	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.			A
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.3	Pass	A
	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	Pass	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)			
Unwanted Emissions that fall 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	B
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
	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	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207		Clause 4.2	Pass	B
Frequency Stability	5150-5250 5250-	15.209		Clause 4.9	Pass	A



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Shenzhen Branch**

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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
	5350-5850					
Dynamic Frequency Selection	5250-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.10	Pass	A
			Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.			
			Non-occupancy period: Minimum 30 minutes			



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3 General Information

3.1 Client Information

Applicant:	LG Electronics USA, Inc
Address of Applicant:	111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer:	Huaqin Telecom Technology Co.,Ltd.
Address of Manufacturer:	No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China

3.2 Test Location

Lab A:

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

Lab B:

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



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3.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 3816.01)

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

• VCCI

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

• FCC –Designation Number: CN1178

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

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

Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	Mobile handset
Model No.:	LM-K520HMMW, LM-K520HM, LM-K525HMMW, LM-K525HM
Trade Mark:	LG
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth) ; <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth); <input type="checkbox"/> 802.11ac (160 MHz channel bandwidth),
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a) : Tx & Rx
Antenna Gain:	-4.56dBi,
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> PoE;; <input type="checkbox"/> Other:



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Difference description:

The differences between LM-K520HMW and other models are shown in the below table:

Model		LM-K520HMW	LM-K520HM	LM-K525HMW	LM-K525HM
		(Full approval)	(Update approval)	(Updated approval)	(Update approval)
Software version		different	different	different	different
Licensed Frequency	LTE	B1/B2/B3/B4/ B5/B7/B8/B12/B13/B17/B28/ B38/B66	B1/B2/B3/B4/ B5/B7/B8/B12/B13/B17/B28/ B38/B66	B1/B2/B3/B4/ B5/B7/B8/B12/B13/ B17/B28/ B38/B66	B1/B2/B3/B4/ B5/B7/B8/B12/B13/B17/B28/ B38/B66
	UMTS	B1/B2/B4/B5/ B8	B1/B2/B4/B5/ B8	B1/B2/B4/B5/ B8	B1/B2/B4/B5/ B8
	GSM	the same	the same	the same	the same
	IC	the same	the same	the same	the same
	Antenna	the same	the same	the same	the same
Unlicensed Frequency	Bluetooth	the same	the same	the same	the same
	2.4G Wi-Fi	the same	the same	the same	the same
	IC	the same	the same	the same	the same
	Antenna	the same	the same	the same	the same
Hardware	Ram / Rom	4G/64G	4G/64G	4G/128G	4G/128G
	Camera	the same	the same	the same	the same
	PCB	the same	the same	the same	the same
	USB Port	the same	the same	the same	the same
	RJ11 Port	the same	the same	the same	the same
	RJ45 Port	the same	the same	the same	the same
	NFC	Not support	Not support	Not support	Not support
	FM	Support	Support	Support	Support
Appearance	Dimension	the same	the same	the same	the same
	Color	the same	the same	the same	the same
Accessory	Battery	the same	the same	the same	the same
	External Charger	the same	the same	the same	the same
	USB label	the same	the same	the same	the same
other	SIM card	Double SIM	Single SIM	Double SIM	Single SIM



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Remark:

According to the difference description above, only the model LM-K520HMW was fully tested, for other models were performed the Radiated Emission test for discrepancy, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. With difference being on mode, appearance and color.

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
	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



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	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	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

3.5 Test Environment and Mode

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



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4 Test results and Measurement Data

4.1 Antenna Requirement

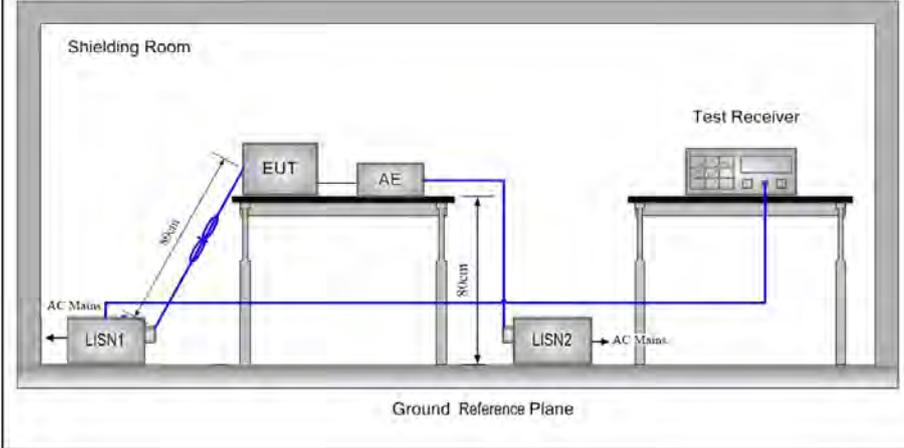
Test Requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -4.56dBi.	

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:	<ol style="list-style-type: none"> 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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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>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.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

Measurement Data

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

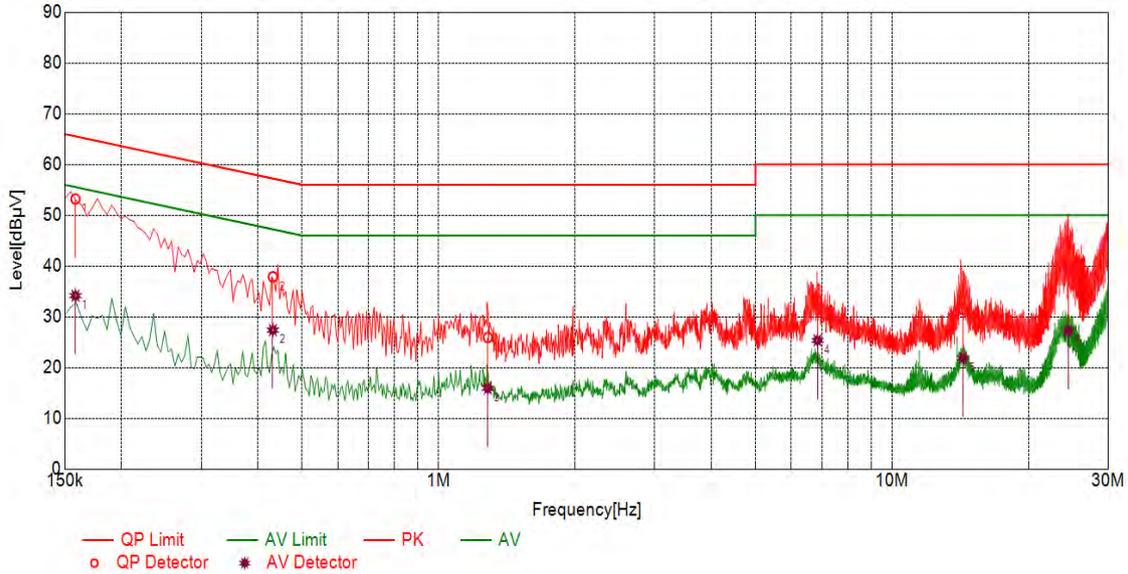
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



Test Graph

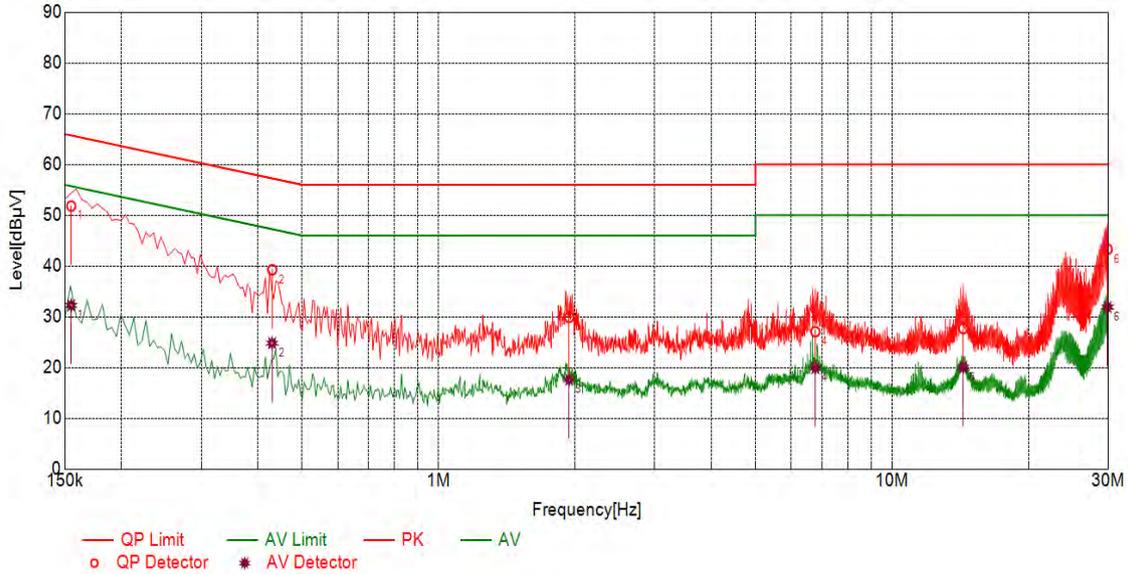
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1584	10.10	53.21	65.55	12.34	34.14	55.55	21.41	L
2	0.4315	10.10	37.87	57.22	19.35	27.38	47.22	19.84	L
3	1.2849	10.10	25.93	56.00	30.07	15.91	46.00	30.09	L
4	6.8520	10.10	33.31	60.00	26.69	25.34	50.00	24.66	L
5	14.3456	10.11	31.47	60.00	28.53	21.89	50.00	28.11	L
6	24.4575	10.11	39.91	60.00	20.09	27.19	50.00	22.81	L



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Neutral Line:



Test Graph

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	0.1550	10.10	51.81	65.73	13.92	32.23	55.73	23.50	N
2	0.4300	10.10	39.26	57.25	17.99	24.80	47.25	22.45	N
3	1.9416	10.10	29.91	56.00	26.09	17.60	46.00	28.40	N
4	6.7781	10.10	27.06	60.00	32.94	19.90	50.00	30.10	N
5	14.3586	10.11	27.69	60.00	32.31	20.04	50.00	29.96	N
6	29.8905	10.11	43.31	60.00	16.69	31.90	50.00	18.10	N

Remarks:

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



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4.3 Duty Cycle

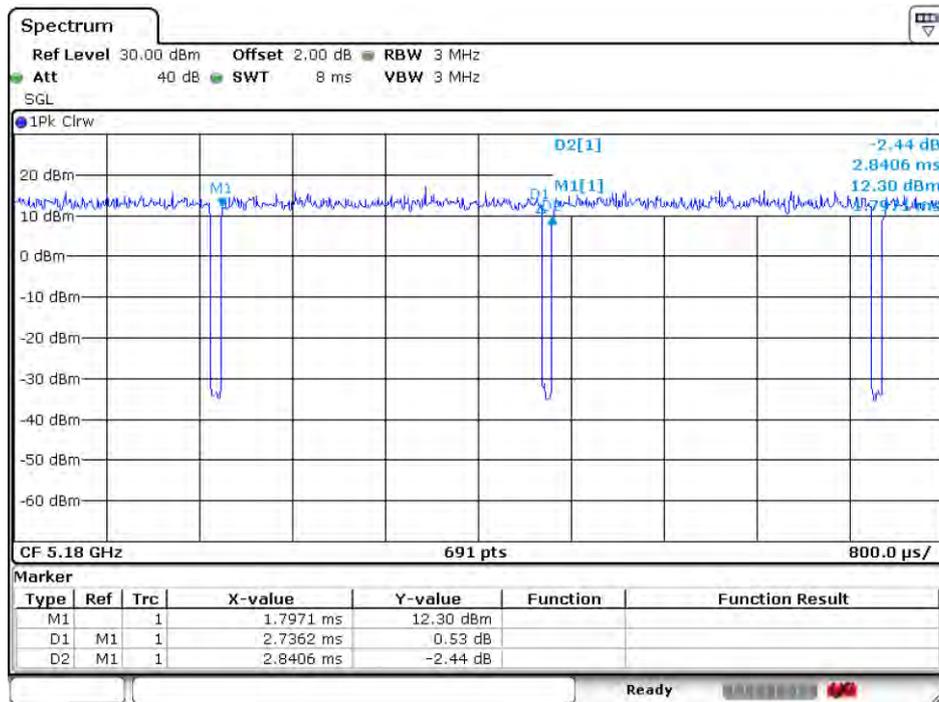
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11A	Ant 1: CH149, CH157, CH165	96.32
11N20	Ant 1: CH149, CH157, CH165	95.63
11N40	Ant 1: CH151, CH159	87.74
11AC20	Ant 1: CH149, CH157, CH165	96.18
11AC40	Ant 1: CH151, CH159	87.77
11AC80	Ant 1: CH155	77.65

4.3.1 Test Plots

4.3.1.1 ANT1

4.3.1.1.1 11A



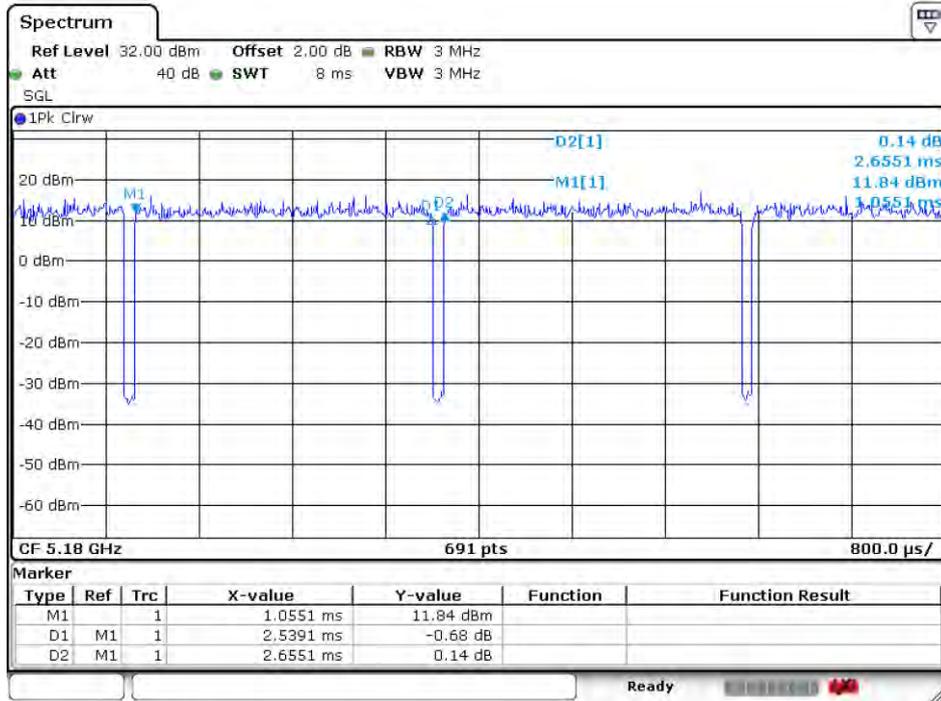
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4.3.1.1.2 11N20



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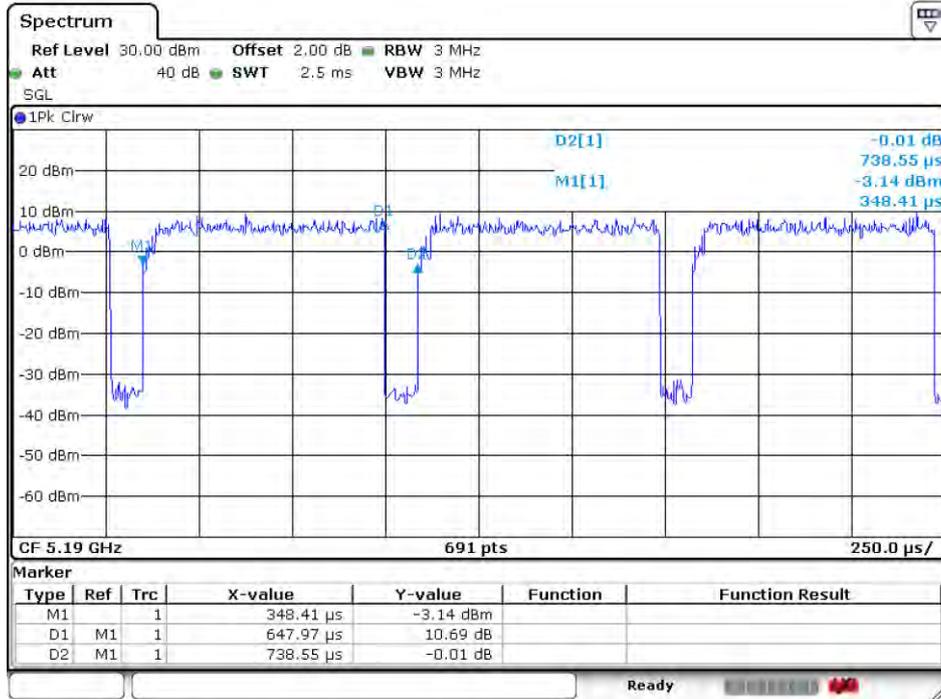


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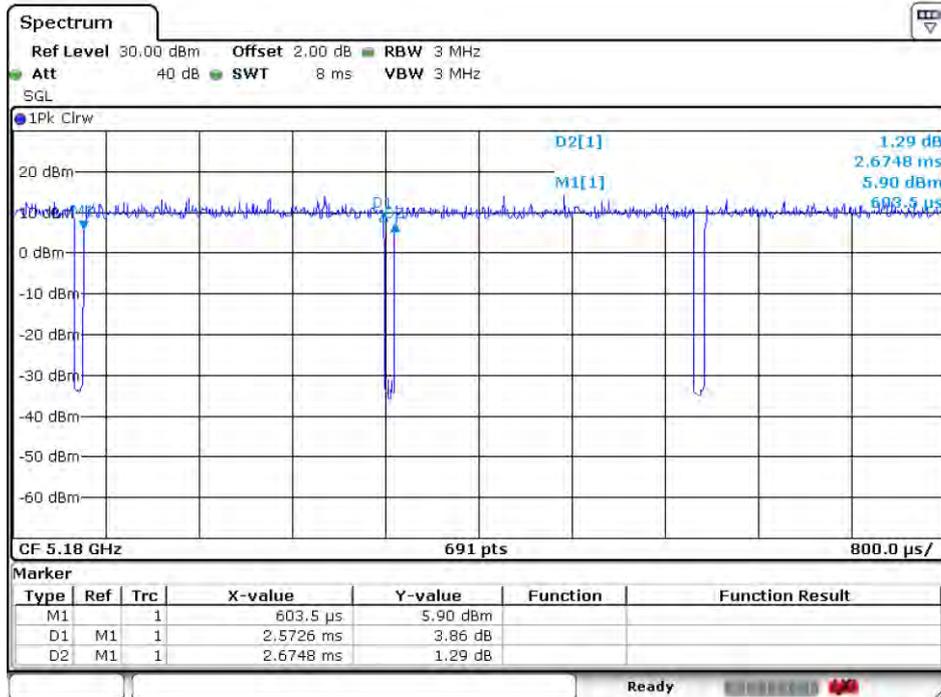


4.3.1.1.3 11N40



Date: 19.AUG.2020 11:58:43

4.3.1.1.4 11AC20



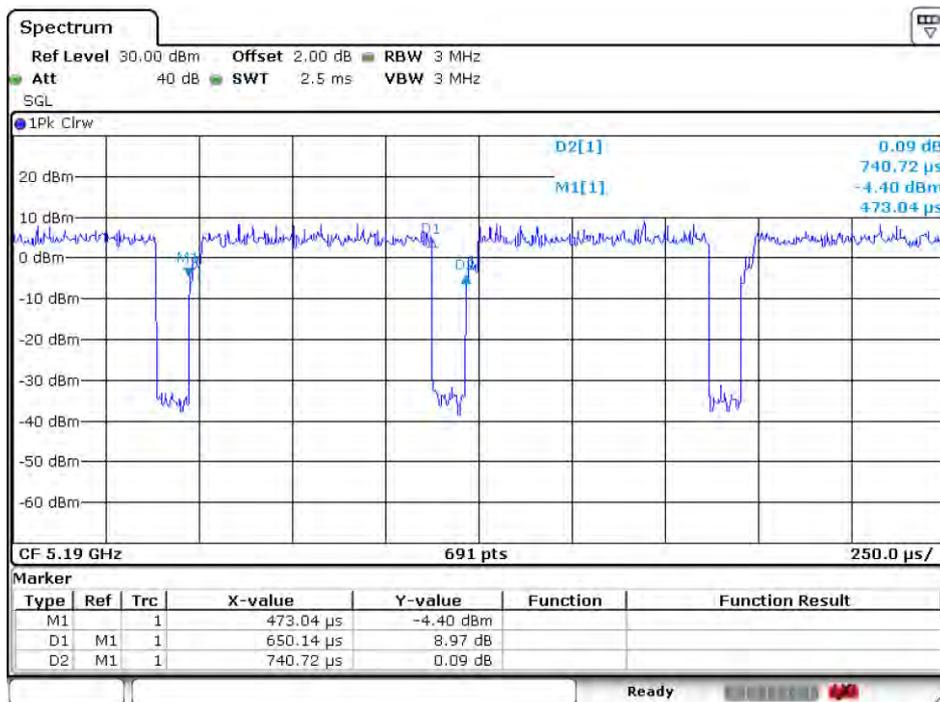
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4.3.1.1.5 11AC40



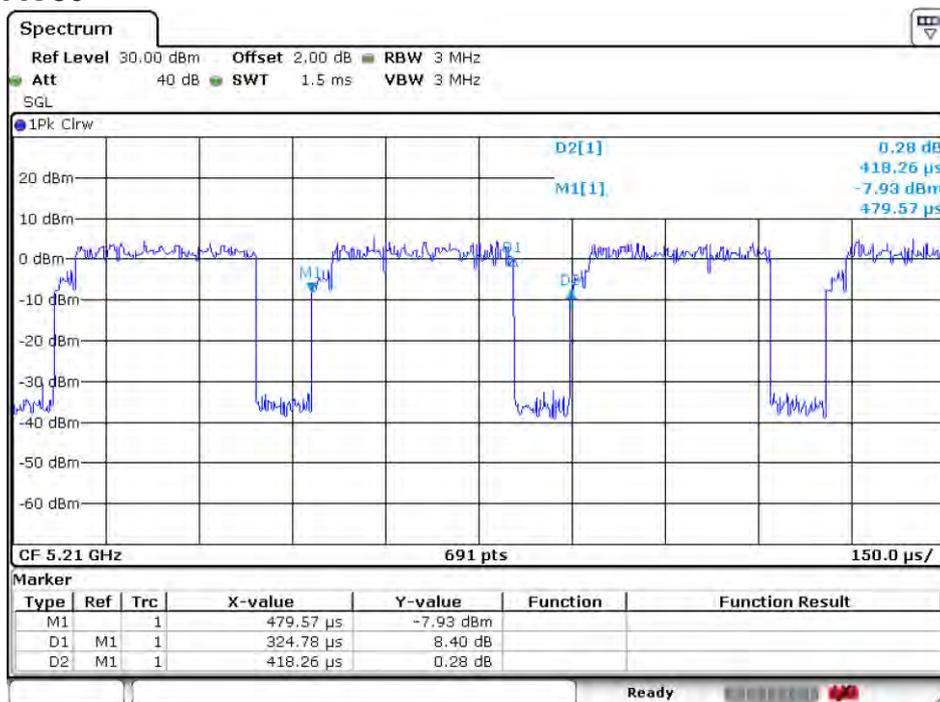
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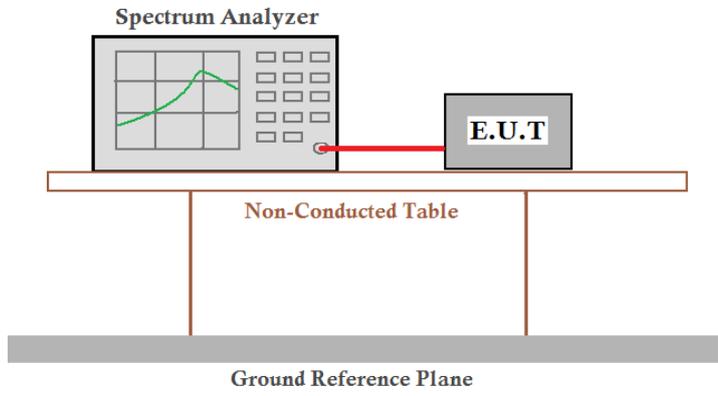
4.3.1.1.6 11AC80



Date: 19.AUG.2020 12:00:31



4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find that</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80)</p> <p>Only the worst case is recorded in the report.</p>	
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	13.44	8.88	PASS
	44	5220	ANT 1	14.17	9.61	PASS
	48	5240	ANT 1	14.48	9.92	PASS
	52	5260	ANT 1	14.74	10.18	PASS
	60	5300	ANT 1	15.03	10.47	PASS
	64	5320	ANT 1	14.81	10.25	PASS
	100	5500	ANT 1	15.63	11.07	PASS
	116	5580	ANT 1	15.25	10.69	PASS
	140	5700	ANT 1	15.27	10.71	PASS
	149	5745	ANT 1	15.36	10.8	PASS
	157	5785	ANT 1	15.37	10.81	PASS
	165	5825	ANT 1	15.56	11	PASS
11N20	36	5180	ANT 1	12.89	8.33	PASS
	44	5220	ANT 1	13.77	9.21	PASS
	48	5240	ANT 1	14.02	9.46	PASS
	52	5260	ANT 1	14.09	9.53	PASS
	60	5300	ANT 1	14.22	9.66	PASS
	64	5320	ANT 1	14.3	9.74	PASS
	100	5500	ANT 1	14.93	10.37	PASS
	116	5580	ANT 1	14.52	9.96	PASS
	140	5700	ANT 1	14.99	10.43	PASS
	149	5745	ANT 1	14.84	10.28	PASS
	157	5785	ANT 1	14.89	10.33	PASS
	165	5825	ANT 1	14.93	10.37	PASS
11N40	38	5190	ANT 1	11.12	6.56	PASS
	46	5230	ANT 1	11.81	7.25	PASS
	54	5270	ANT 1	12.15	7.59	PASS
	62	5310	ANT 1	12.22	7.66	PASS
	102	5510	ANT 1	13.02	8.46	PASS



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	110	5550	ANT 1	12.9	8.34	PASS
	134	5670	ANT 1	12.94	8.38	PASS
	151	5755	ANT 1	12.91	8.35	PASS
	159	5795	ANT 1	12.92	8.36	PASS
11AC20	36	5180	ANT 1	10.68	6.12	PASS
	44	5220	ANT 1	11.63	7.07	PASS
	48	5240	ANT 1	11.96	7.4	PASS
	52	5260	ANT 1	12.16	7.6	PASS
	60	5300	ANT 1	12.27	7.71	PASS
	64	5320	ANT 1	12.23	7.67	PASS
	100	5500	ANT 1	12.96	8.4	PASS
	116	5580	ANT 1	12.83	8.27	PASS
	140	5700	ANT 1	12.88	8.32	PASS
	149	5745	ANT 1	12.95	8.39	PASS
	157	5785	ANT 1	12.83	8.27	PASS
	165	5825	ANT 1	12.84	8.28	PASS
11AC40	38	5190	ANT 1	9.98	5.42	PASS
	46	5230	ANT 1	10.92	6.36	PASS
	54	5270	ANT 1	11.29	6.73	PASS
	62	5310	ANT 1	11.3	6.74	PASS
	102	5510	ANT 1	11.89	7.33	PASS
	110	5550	ANT 1	11.87	7.31	PASS
	134	5670	ANT 1	11.93	7.37	PASS
	151	5755	ANT 1	11.75	7.19	PASS
	159	5795	ANT 1	11.76	7.2	PASS
11AC80	42	5210	ANT 1	10.49	5.93	PASS
	58	5290	ANT 1	11.26	6.7	PASS
	106	5530	ANT 1	11.78	7.22	PASS
	122	5610	ANT 1	11.82	7.26	PASS
	138	5690	ANT 1	11.75	7.19	PASS
	155	5775	ANT 1	11.78	7.22	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:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
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	20.73	PASS
	44	5220	ANT 1	20.61	PASS
	48	5240	ANT 1	24.09	PASS
	60	5300	ANT 1	21.51	PASS
	52	5260	ANT 1	25.02	PASS
	64	5320	ANT 1	20.91	PASS
	100	5500	ANT 1	22.11	PASS
	116	5580	ANT 1	27.36	PASS
	140	5700	ANT 1	25.68	PASS
11N20	36	5180	ANT 1	21.87	PASS
	44	5220	ANT 1	23.67	PASS
	48	5240	ANT 1	22.11	PASS
	52	5260	ANT 1	22.47	PASS
	60	5300	ANT 1	21.96	PASS
	64	5320	ANT 1	22.08	PASS
	100	5500	ANT 1	25.65	PASS
	116	5580	ANT 1	24.09	PASS
11N40	38	5190	ANT 1	41.1	PASS
	46	5230	ANT 1	41.16	PASS
	54	5270	ANT 1	41.04	PASS
	62	5310	ANT 1	41.04	PASS
	102	5510	ANT 1	40.98	PASS
	110	5550	ANT 1	41.22	PASS
	134	5670	ANT 1	41.16	PASS
11AC20	36	5180	ANT 1	20.61	PASS
	44	5220	ANT 1	20.55	PASS
	48	5240	ANT 1	20.58	PASS
	52	5260	ANT 1	20.67	PASS
	60	5300	ANT 1	20.58	PASS
	64	5320	ANT 1	20.7	PASS
	100	5500	ANT 1	20.67	PASS
	116	5580	ANT 1	20.58	PASS
	140	5700	ANT 1	20.64	PASS
11AC40	38	5190	ANT 1	41.04	PASS
	46	5230	ANT 1	40.98	PASS
	54	5270	ANT 1	41.4	PASS



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	62	5310	ANT 1	41.16	PASS
	102	5510	ANT 1	41.16	PASS
	110	5550	ANT 1	40.98	PASS
	134	5670	ANT 1	41.22	PASS
11AC80	42	5210	ANT 1	81.76	PASS
	58	5290	ANT 1	81.6	PASS
	106	5530	ANT 1	81.44	PASS
	122	5610	ANT 1	81.6	PASS
	138	5690	ANT 1	81.76	PASS

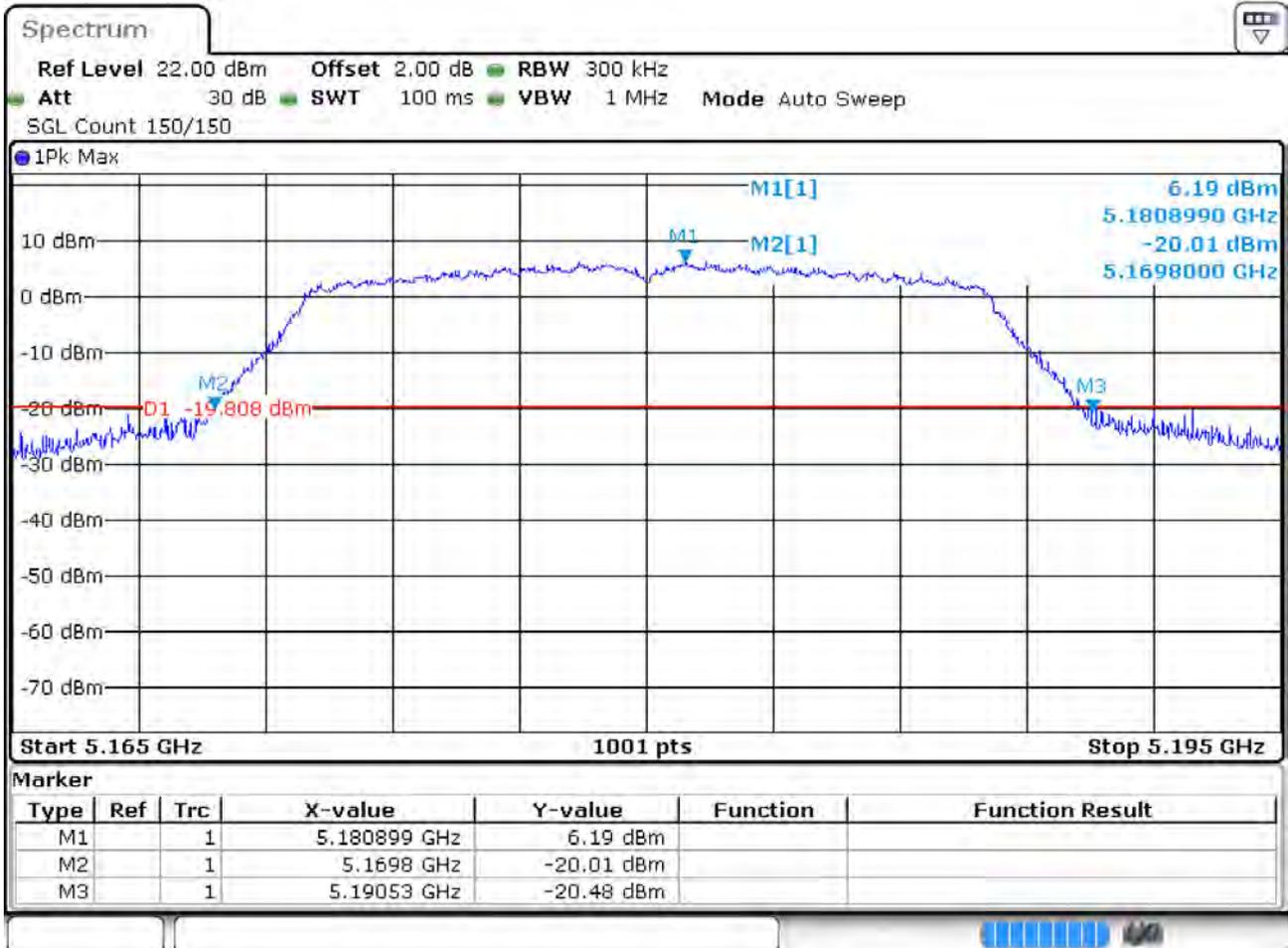


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4.5.2 Plots for 26dB Emission Bandwidth

4.5.2.1 11A20_36 ANT 1



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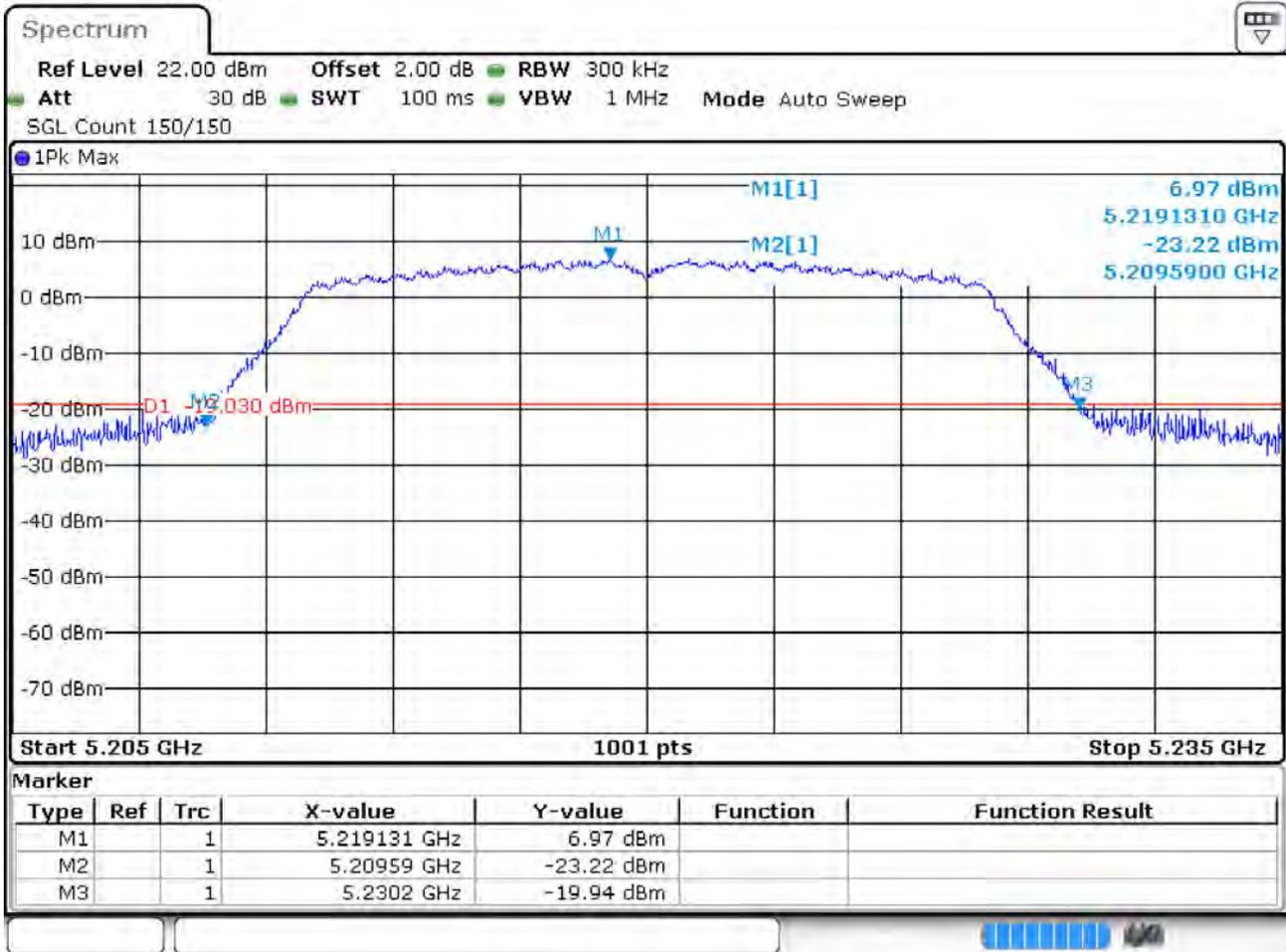


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4.5.2.2 11A20_44 ANT 1



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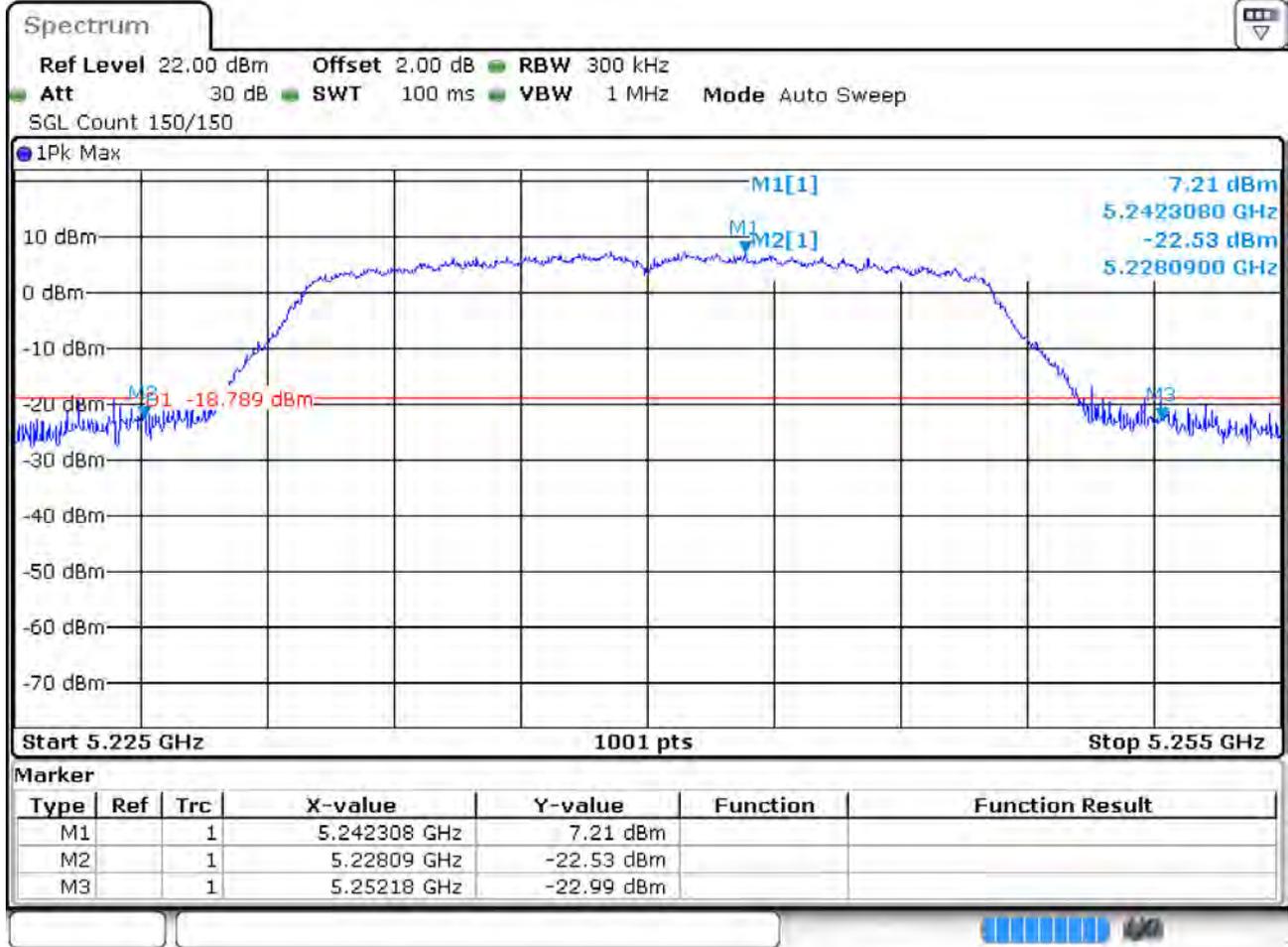


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4.5.2.3 11A20_48 ANT 1



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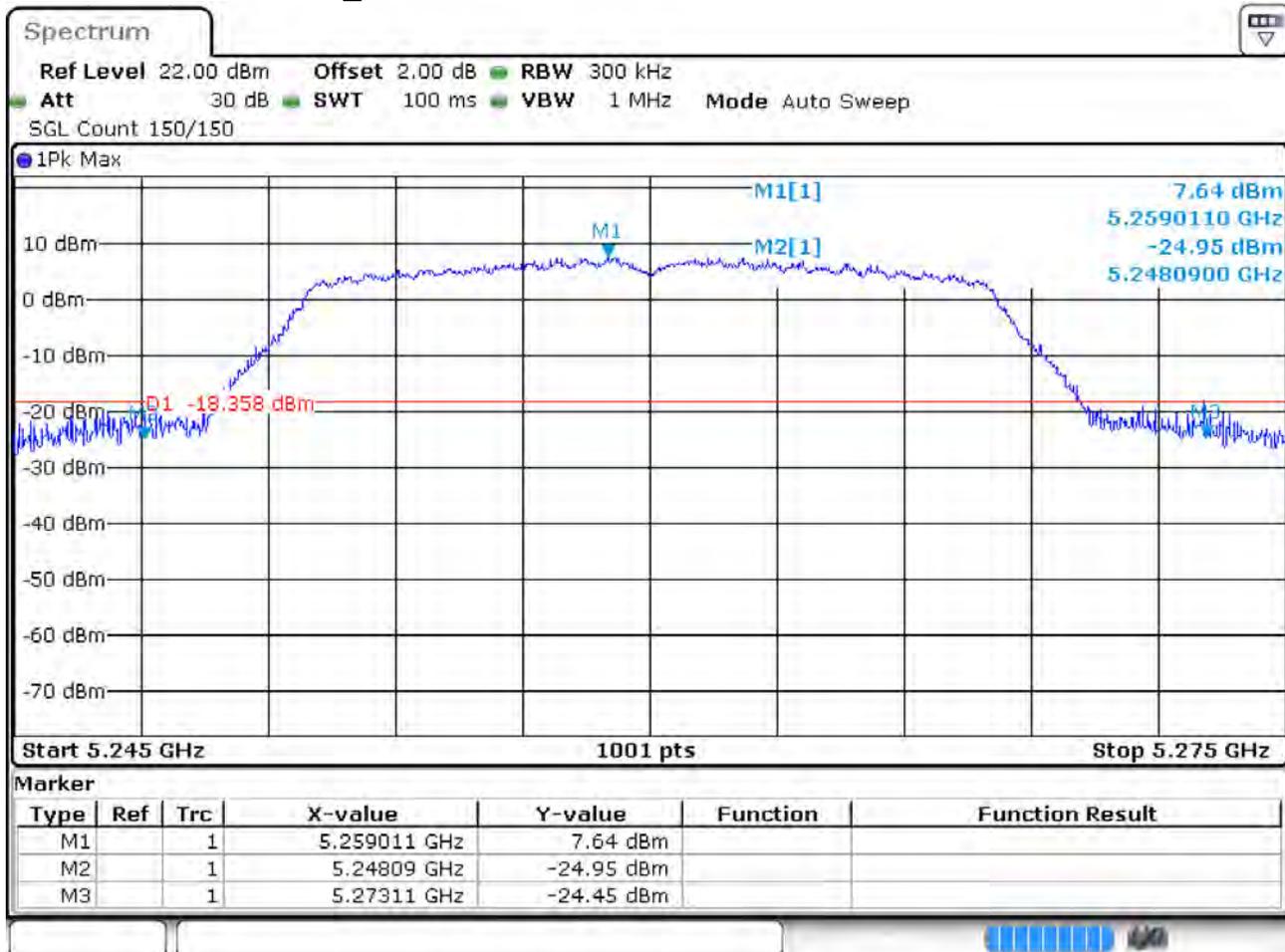


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4.5.2.4 11A20_52 ANT 1



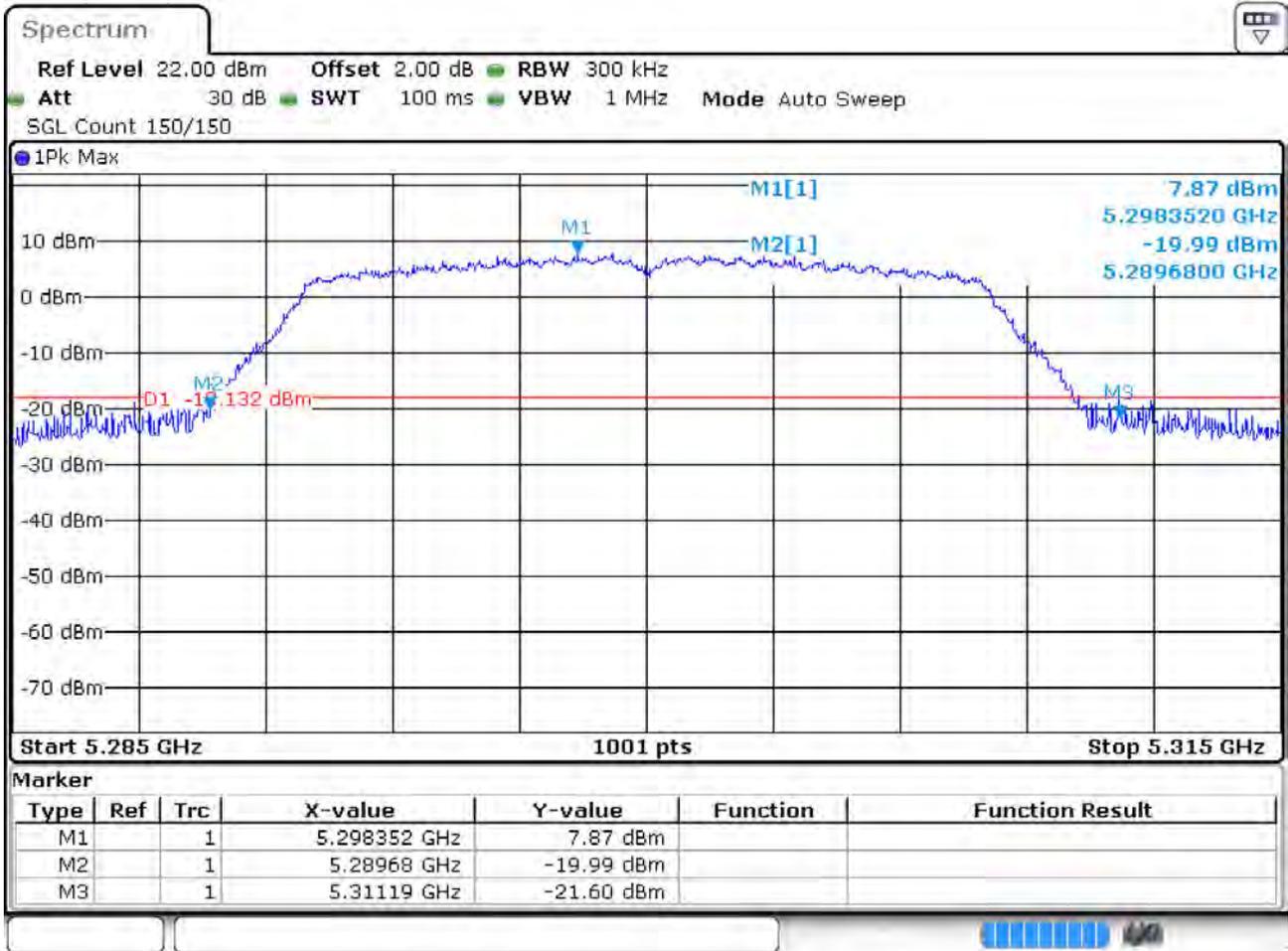
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4.5.2.5 11A20_60 ANT 1



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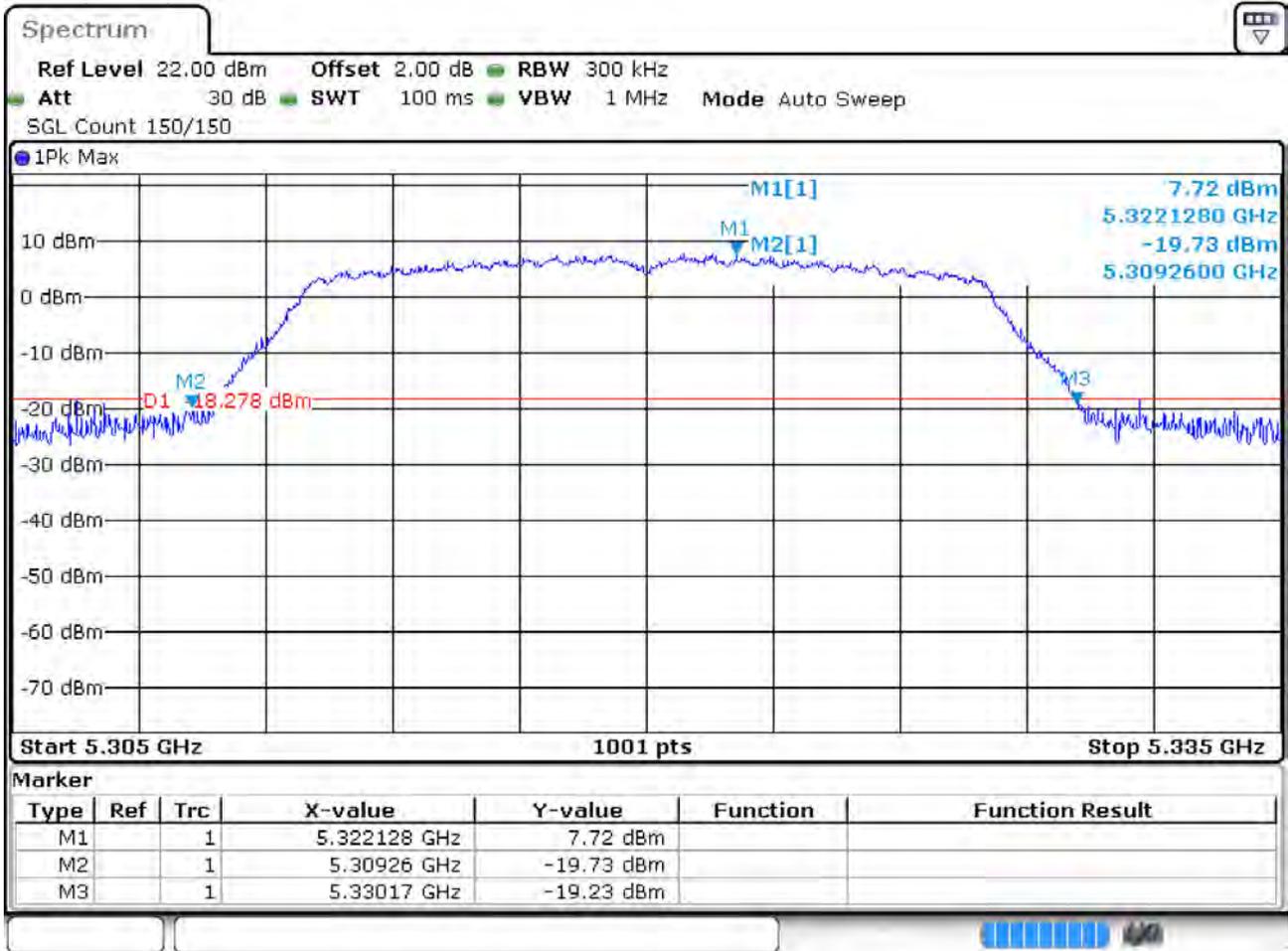


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4.5.2.6 11A20_64 ANT 1

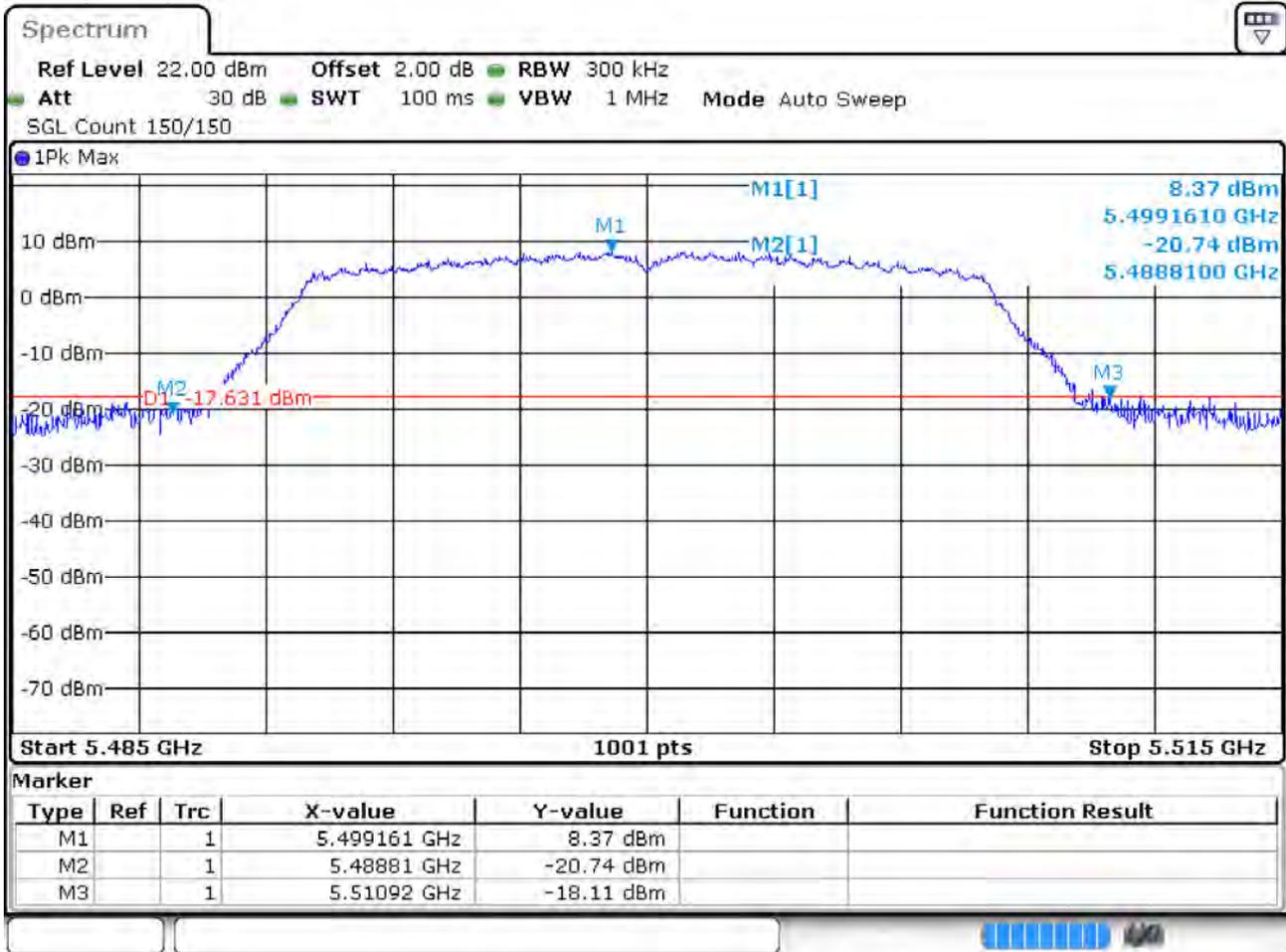


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4.5.2.7 11A20_100 ANT 1



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4.5.2.8 11A20_116 ANT 1



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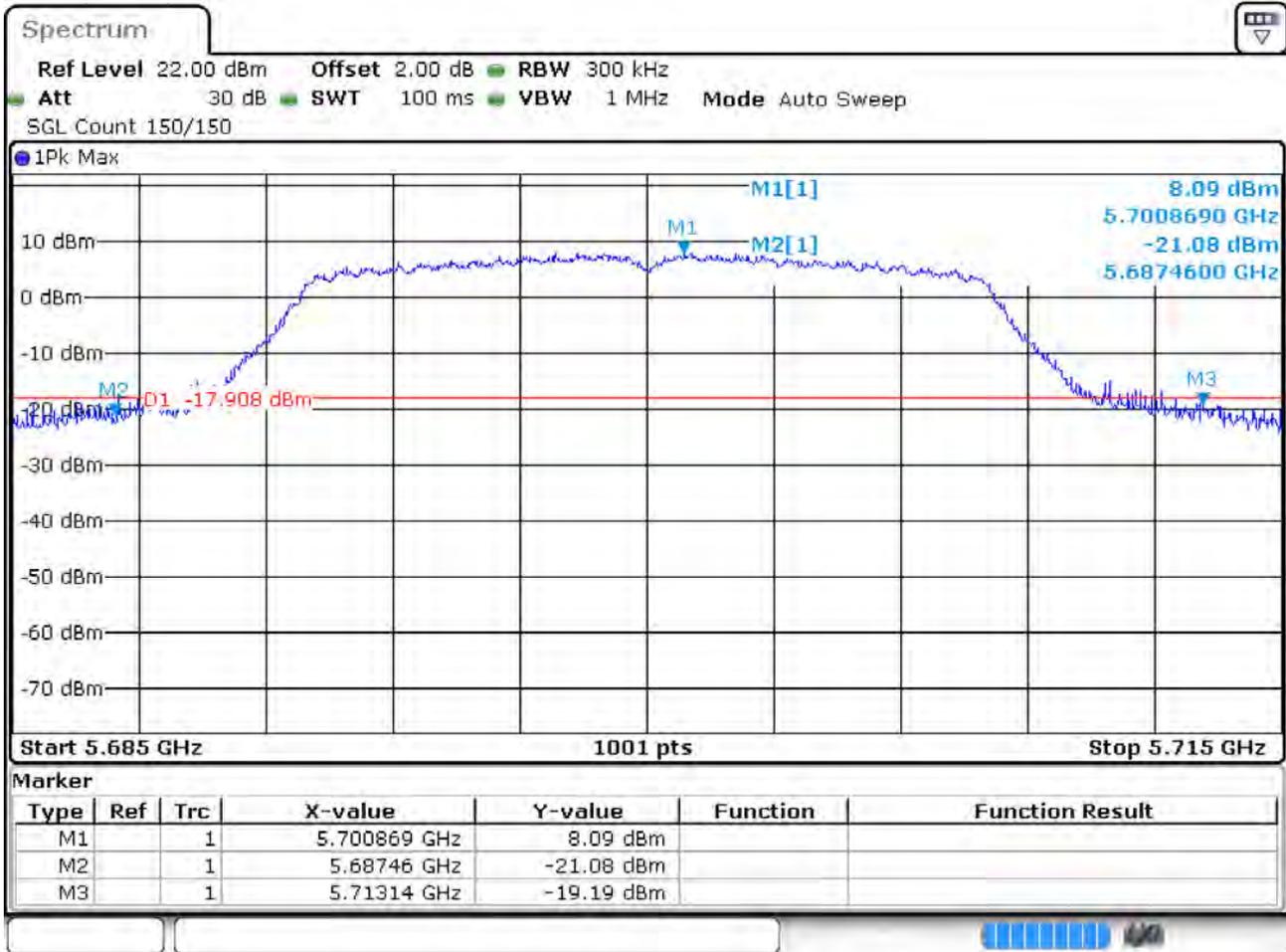


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4.5.2.9 11A20_140 ANT 1



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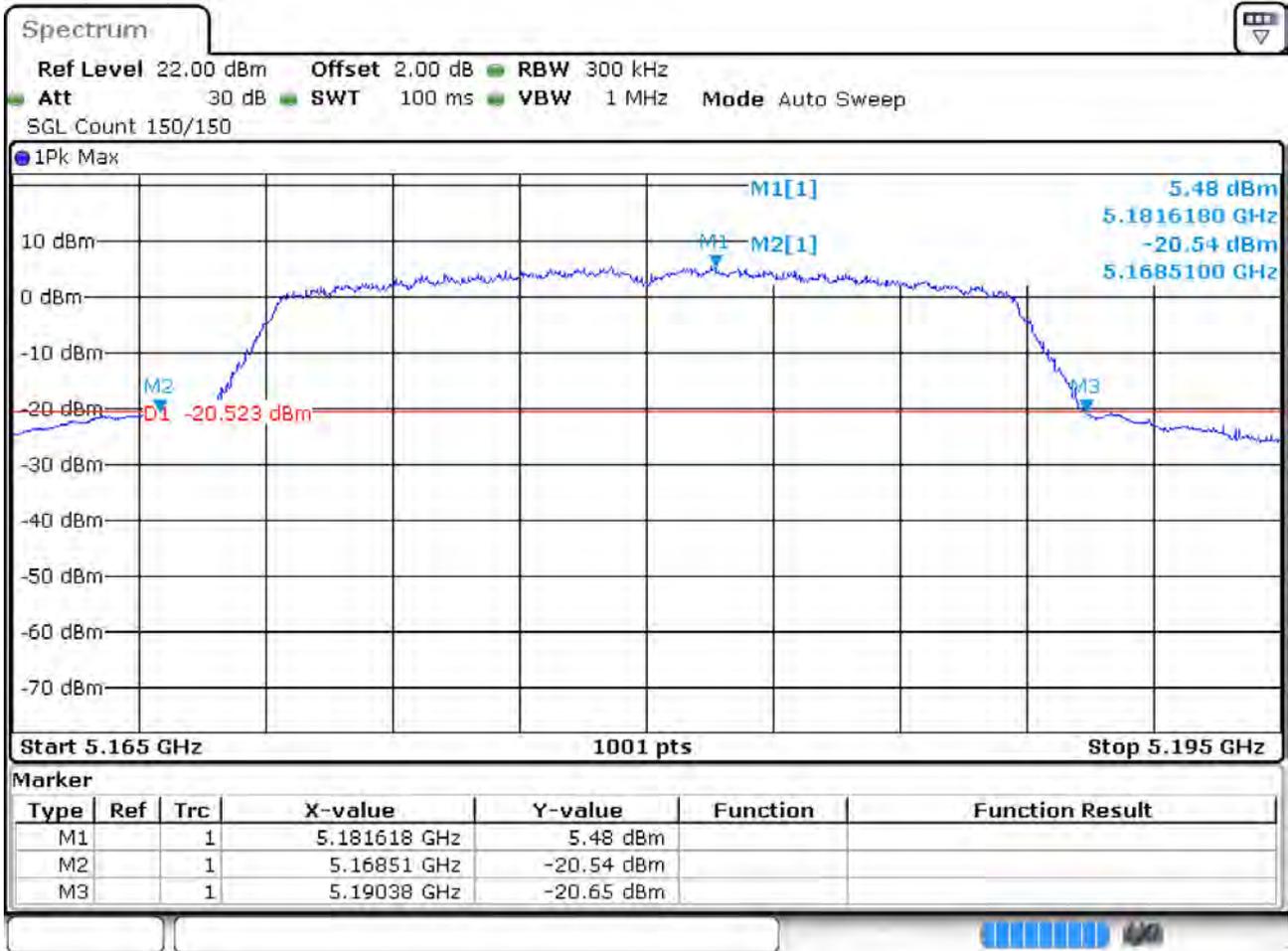


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4.5.2.10 11N20_36 ANT 1



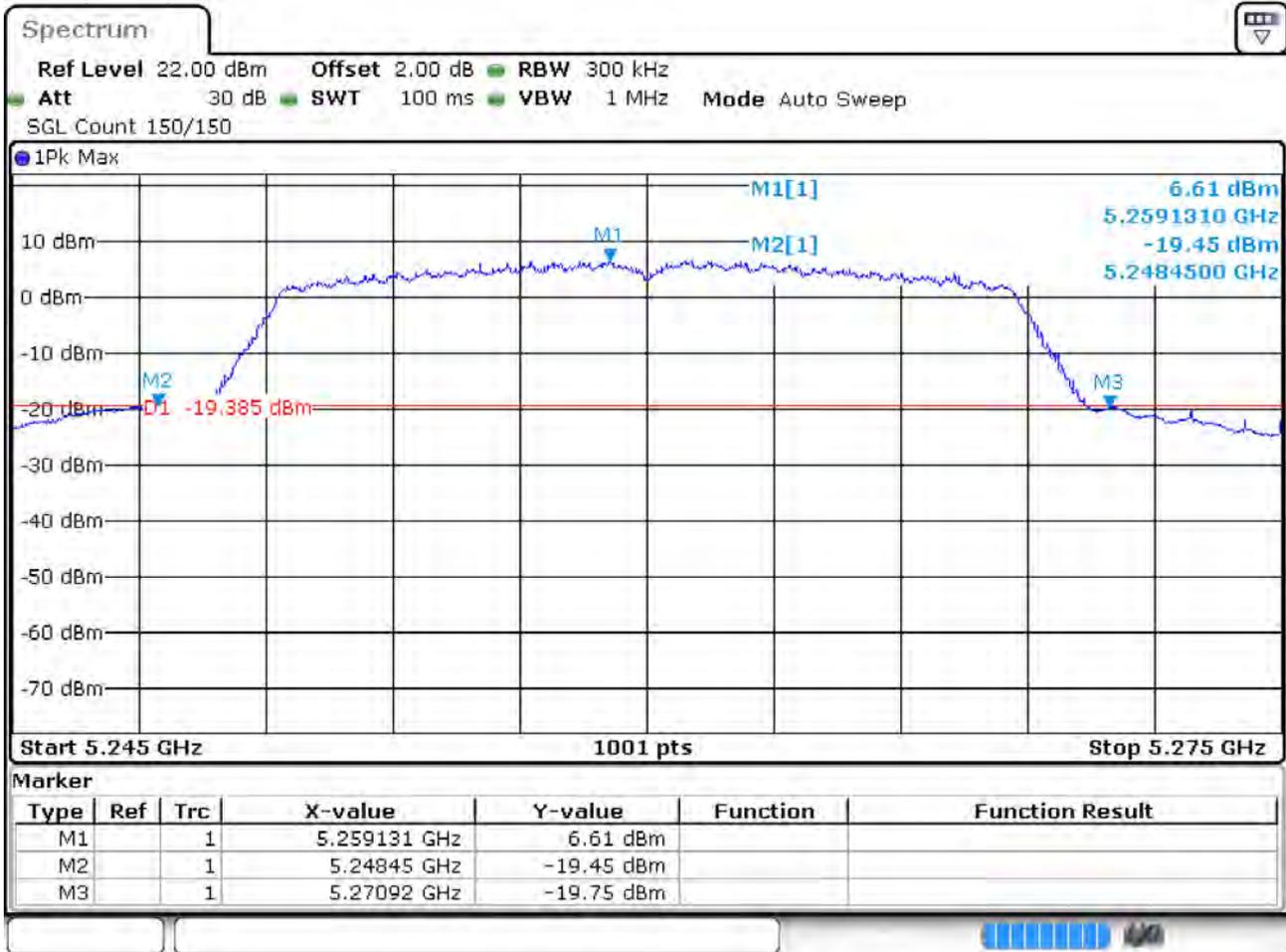
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4.5.2.11 11N20_52 ANT 1



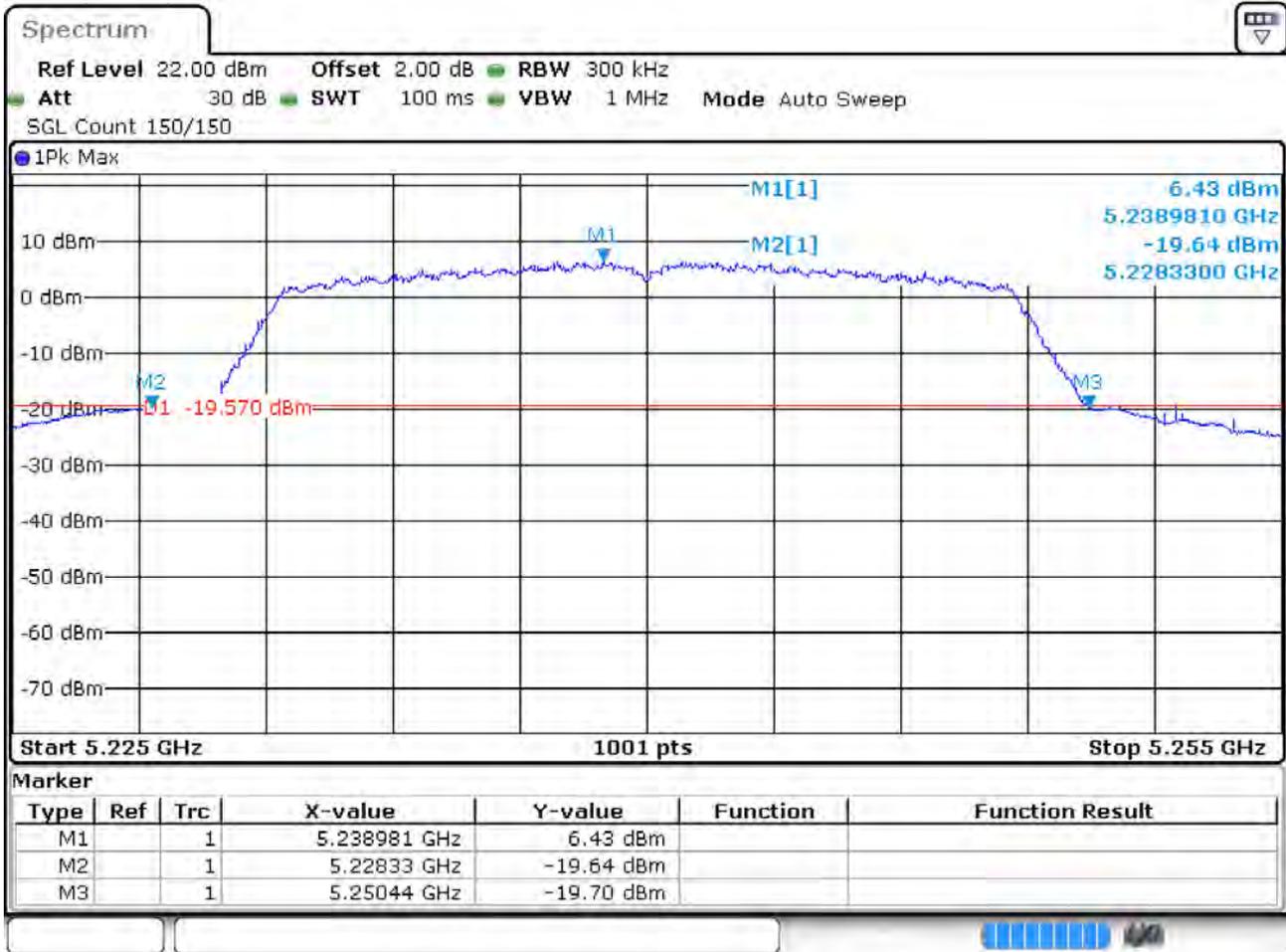
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4.5.2.12 11N20_48 ANT 1



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4.5.2.13 11N20_60 ANT 1



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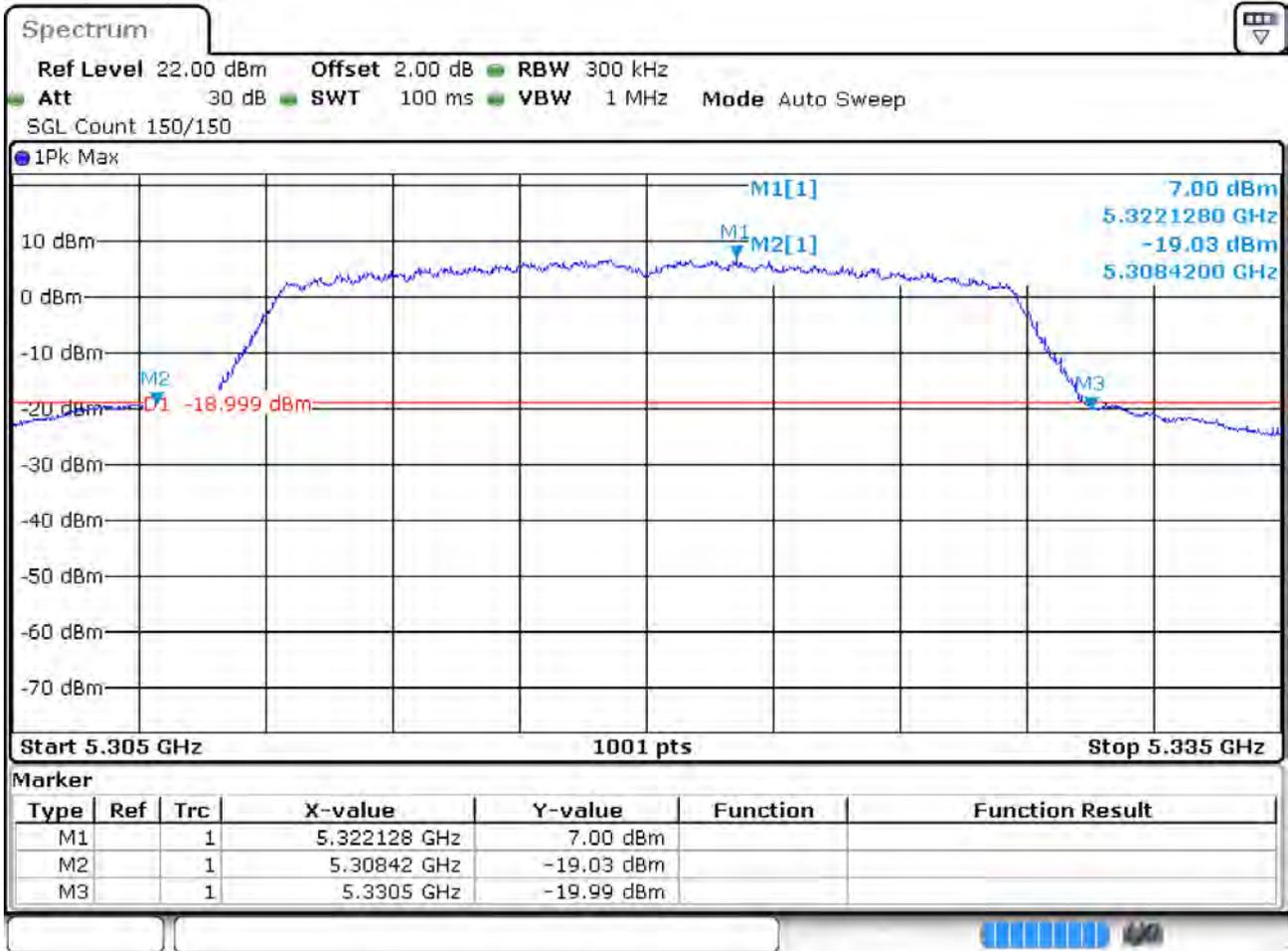


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4.5.2.14 11N20_64 ANT 1



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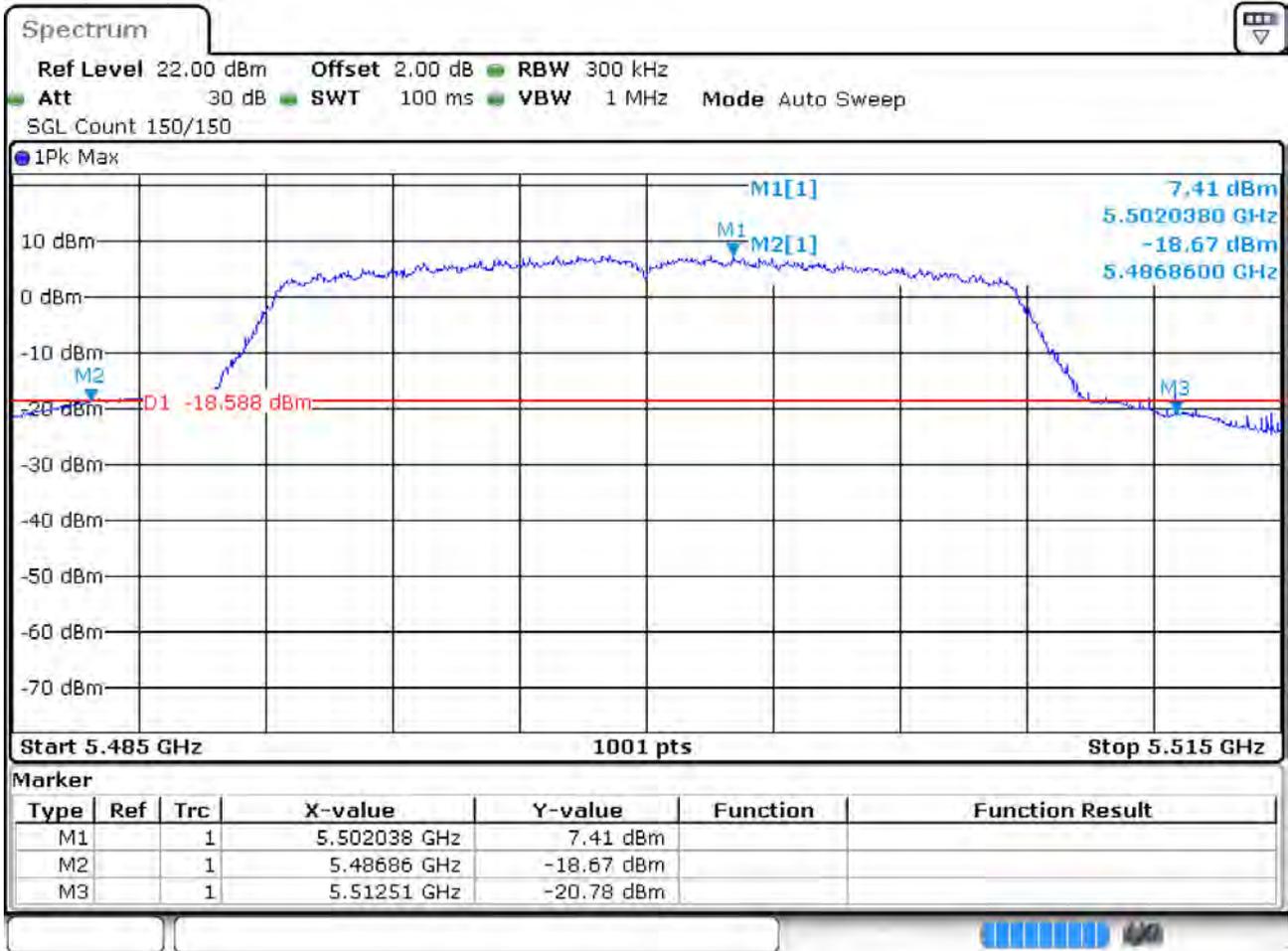


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4.5.2.15 11N20_100 ANT 1



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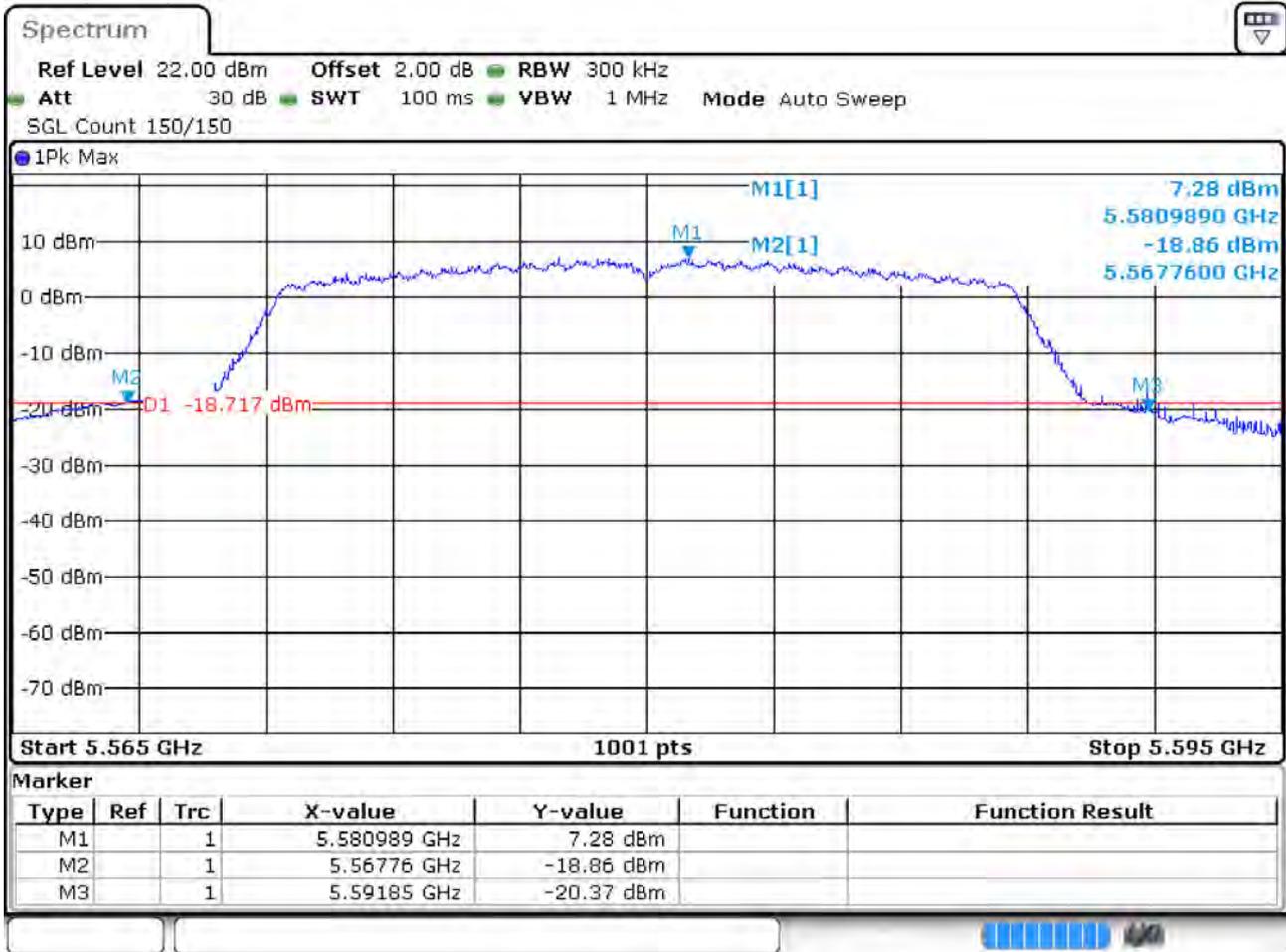


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4.5.2.16 11N20_116 ANT 1

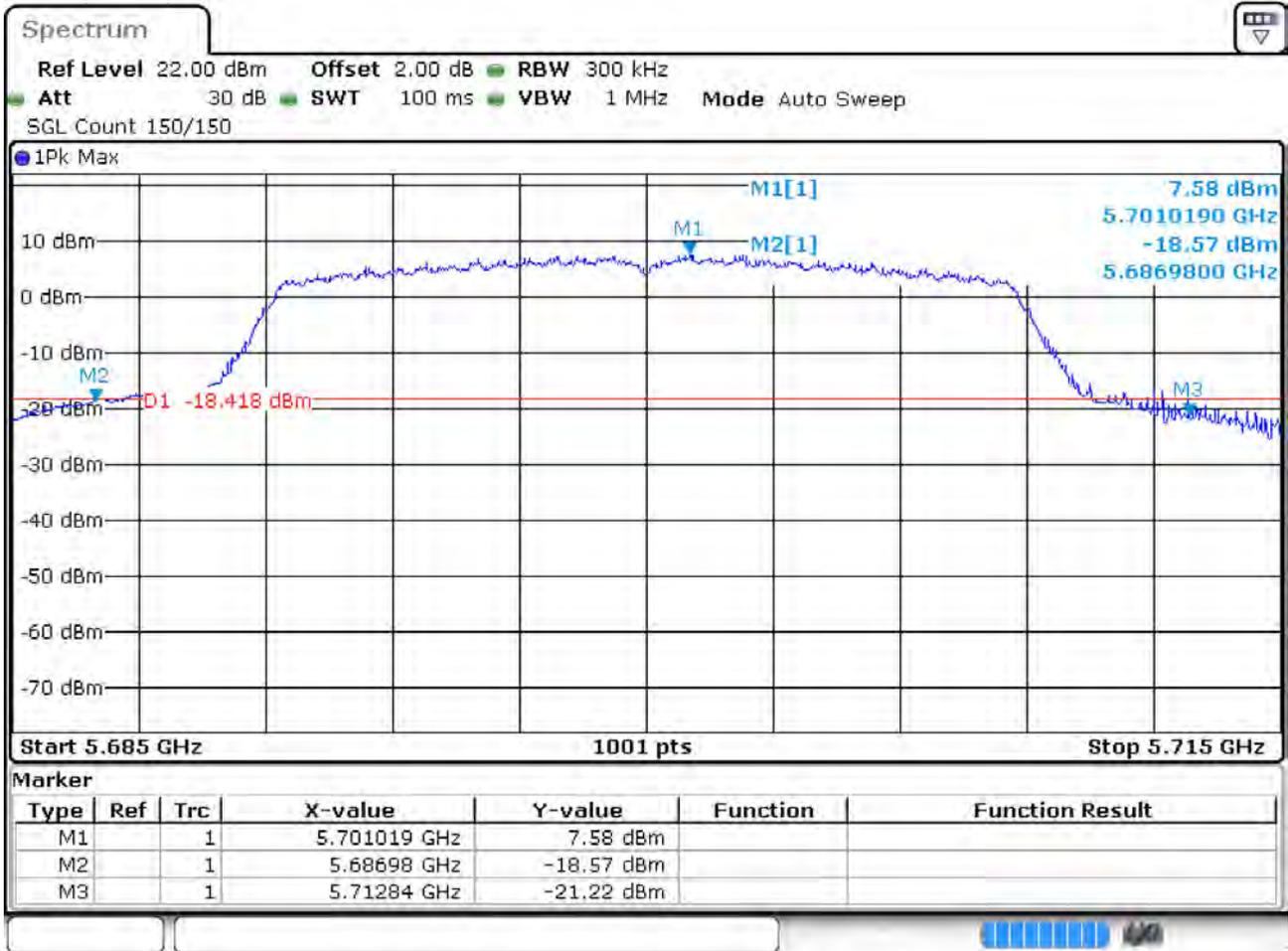


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4.5.2.17 11N20_140 ANT 1



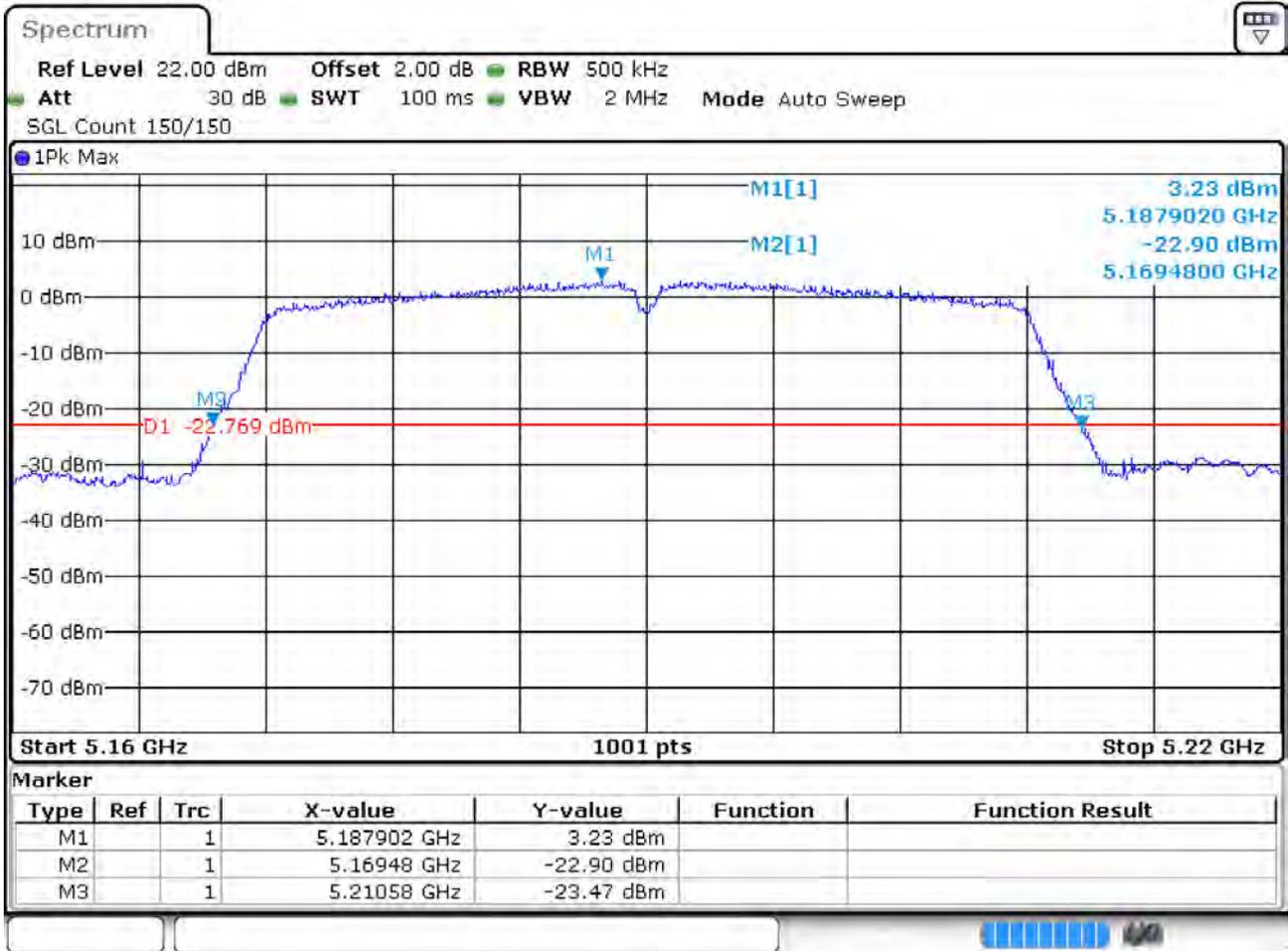
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4.5.2.18 11N40_38 ANT 1



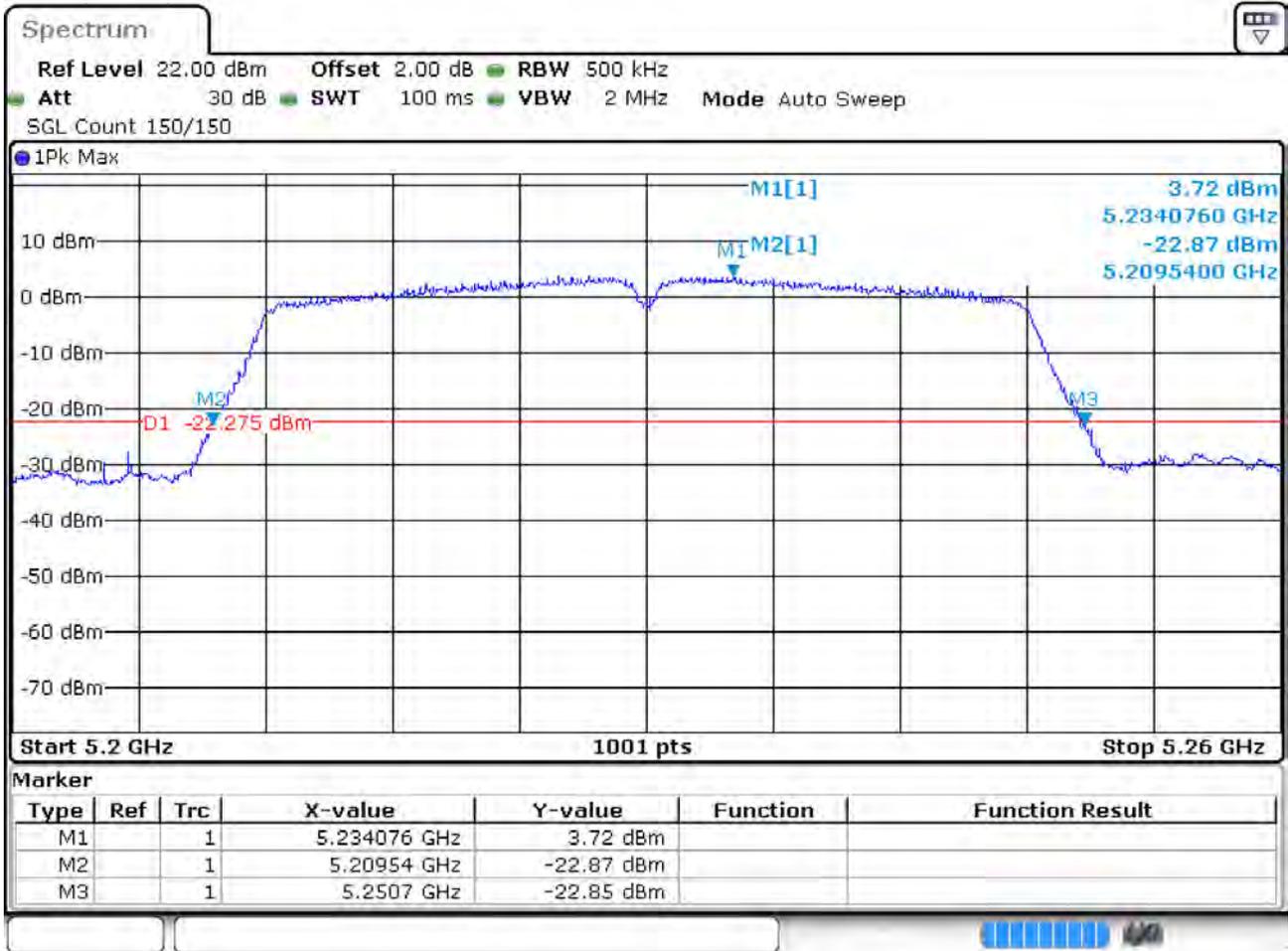
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4.5.2.19 11N40_46 ANT 1



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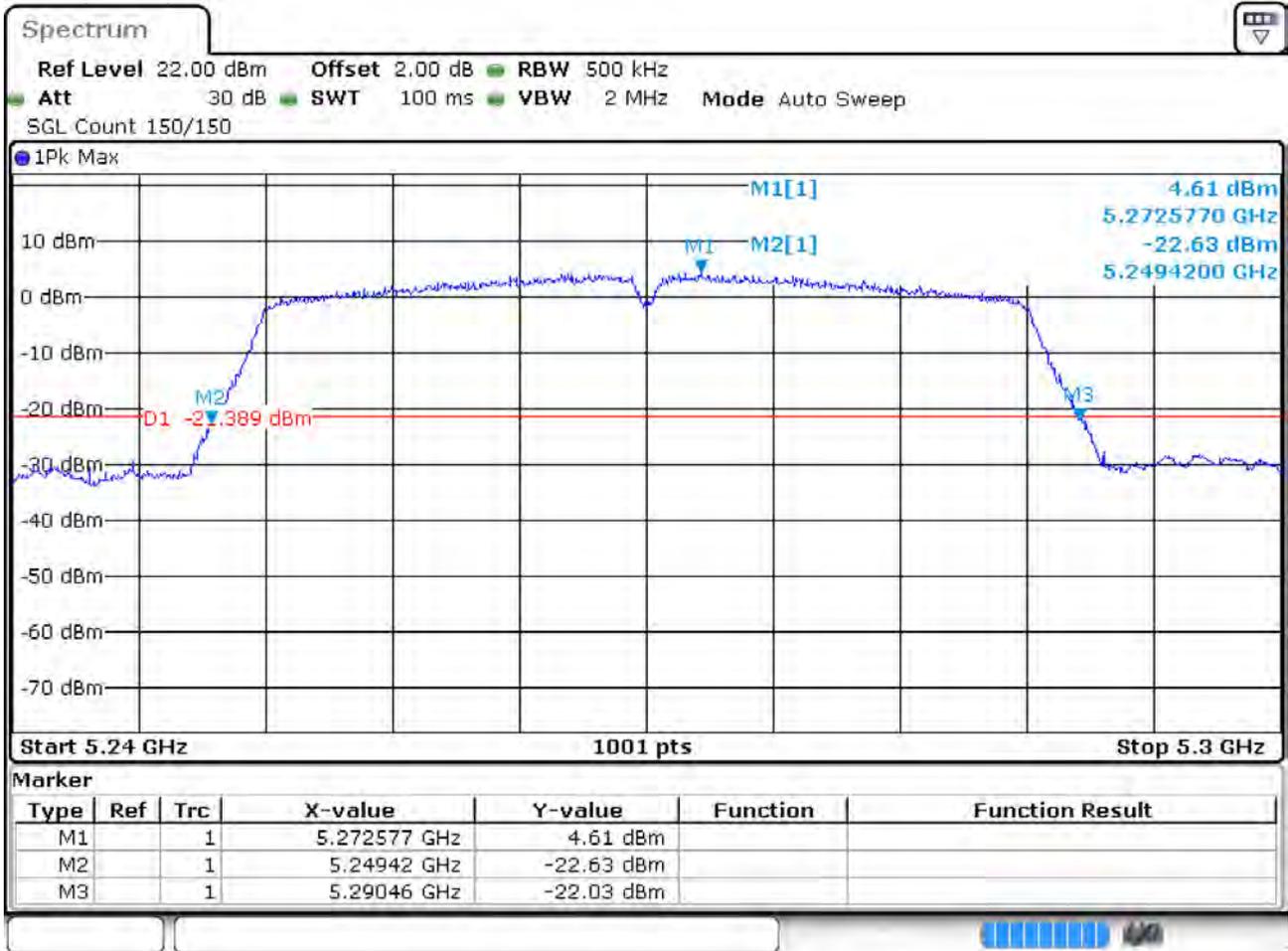


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4.5.2.20 11N40_54 ANT 1



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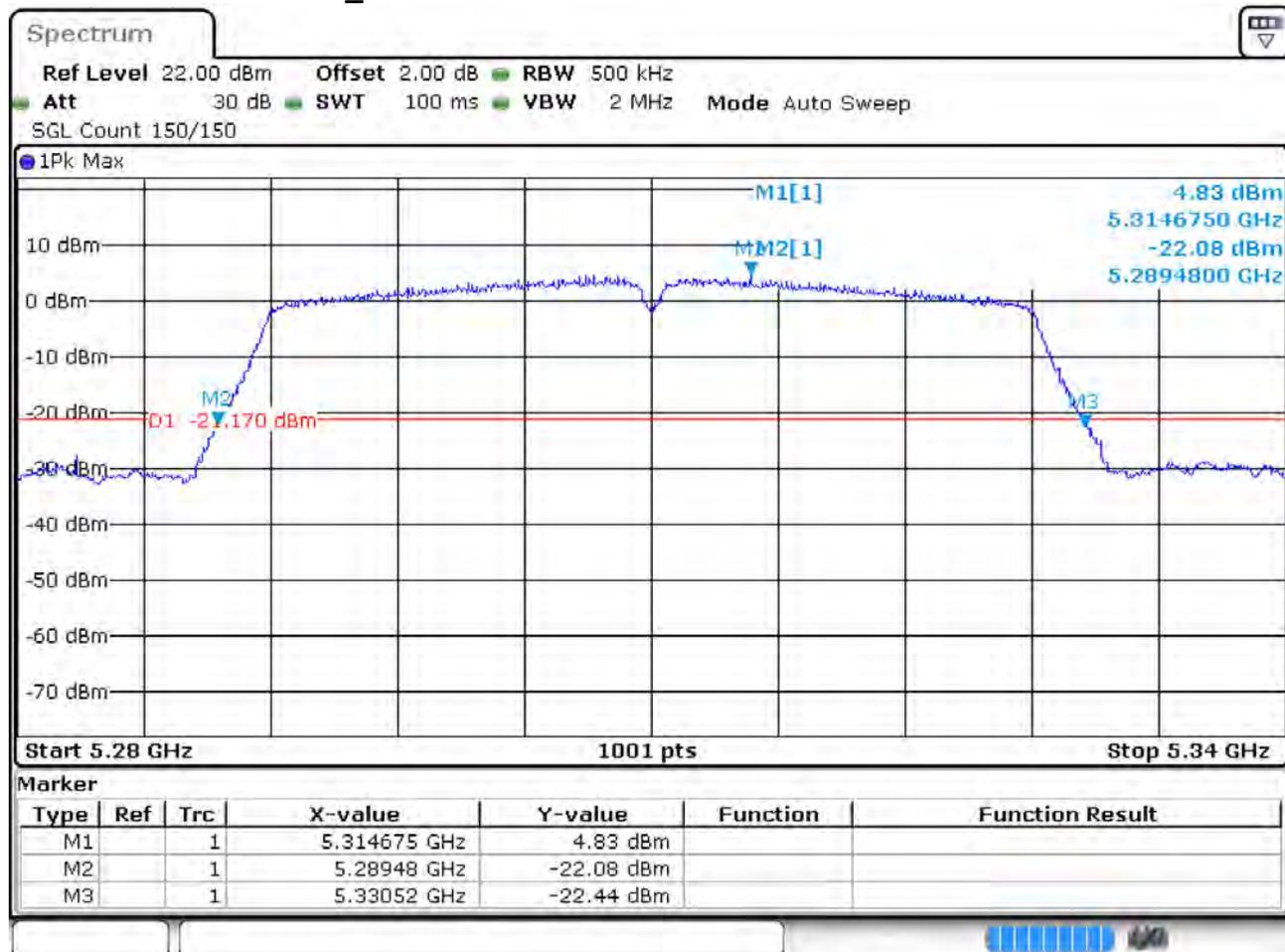


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4.5.2.21 11N40_62 ANT 1



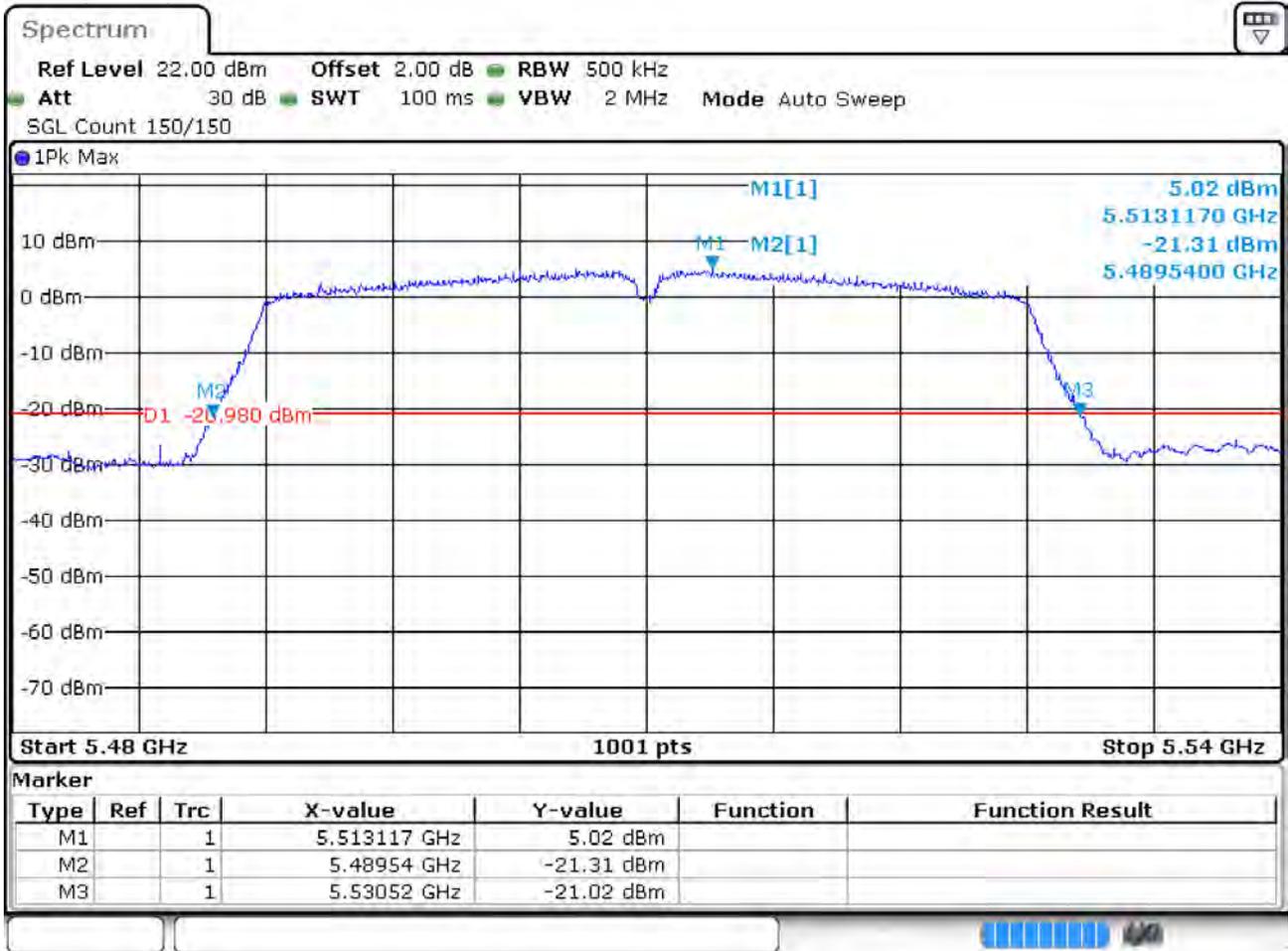
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4.5.2.22 11N40_102 ANT 1



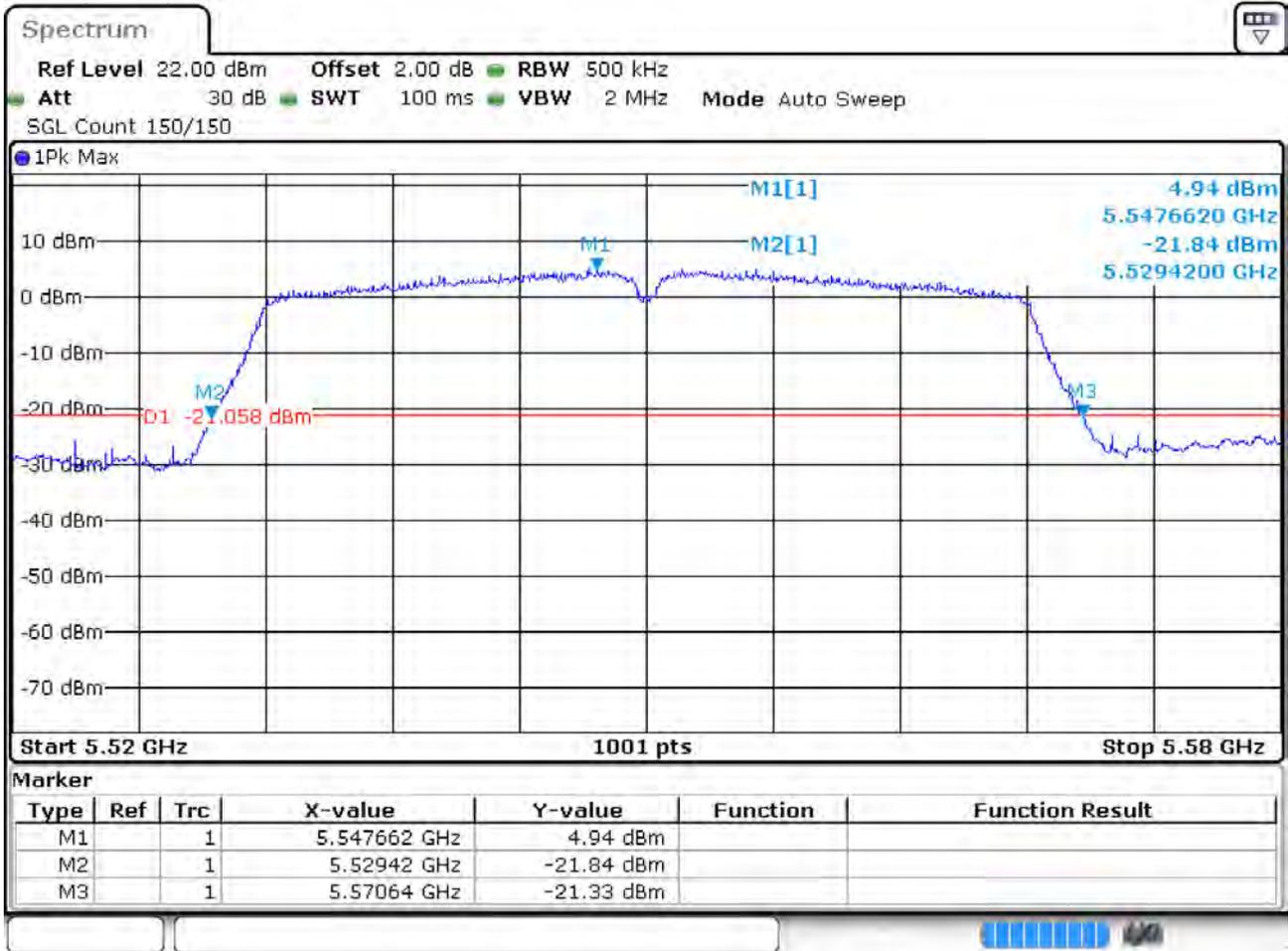
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4.5.2.23 11N40_110 ANT 1



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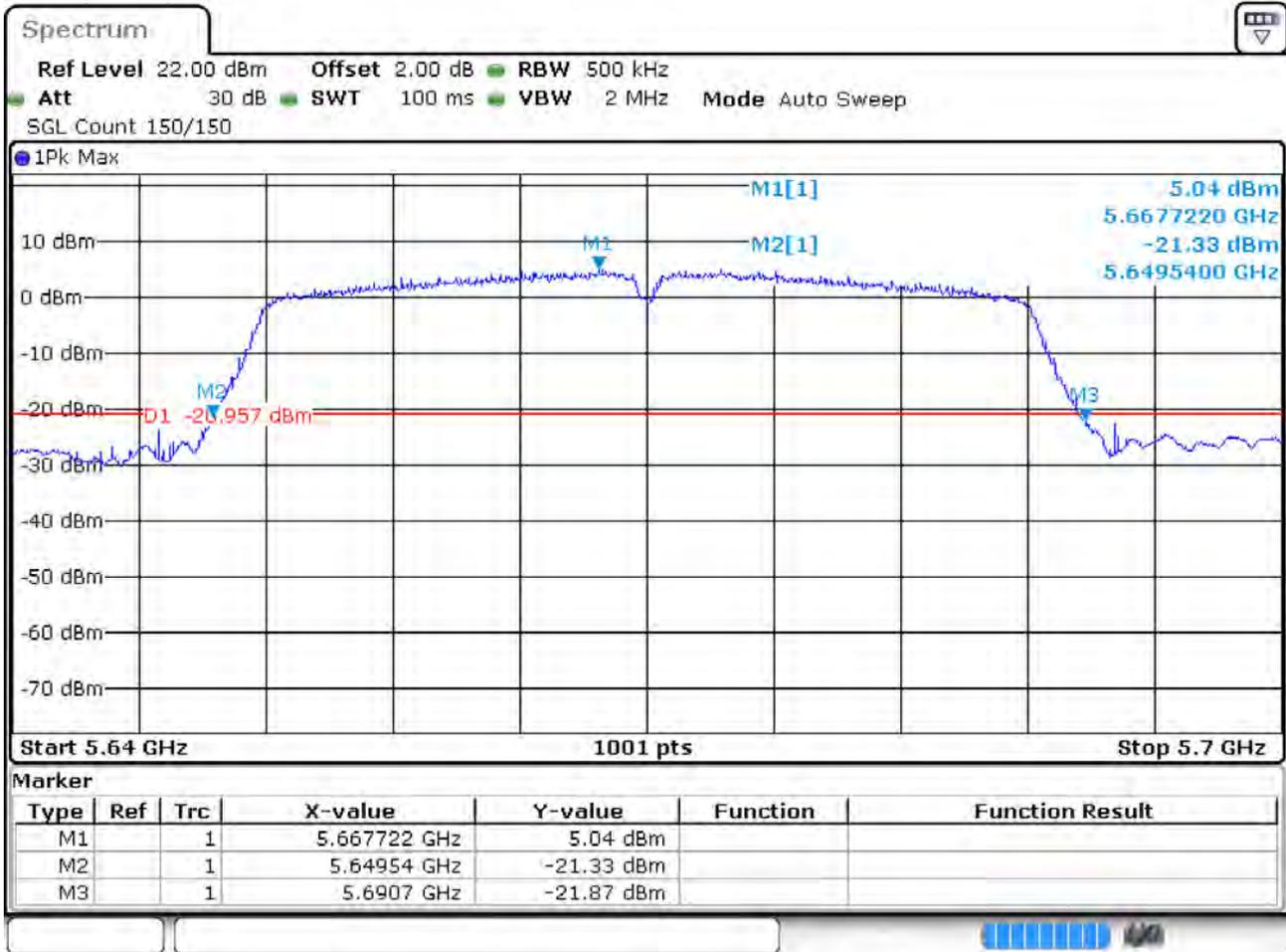


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4.5.2.24 11N40_134 ANT 1



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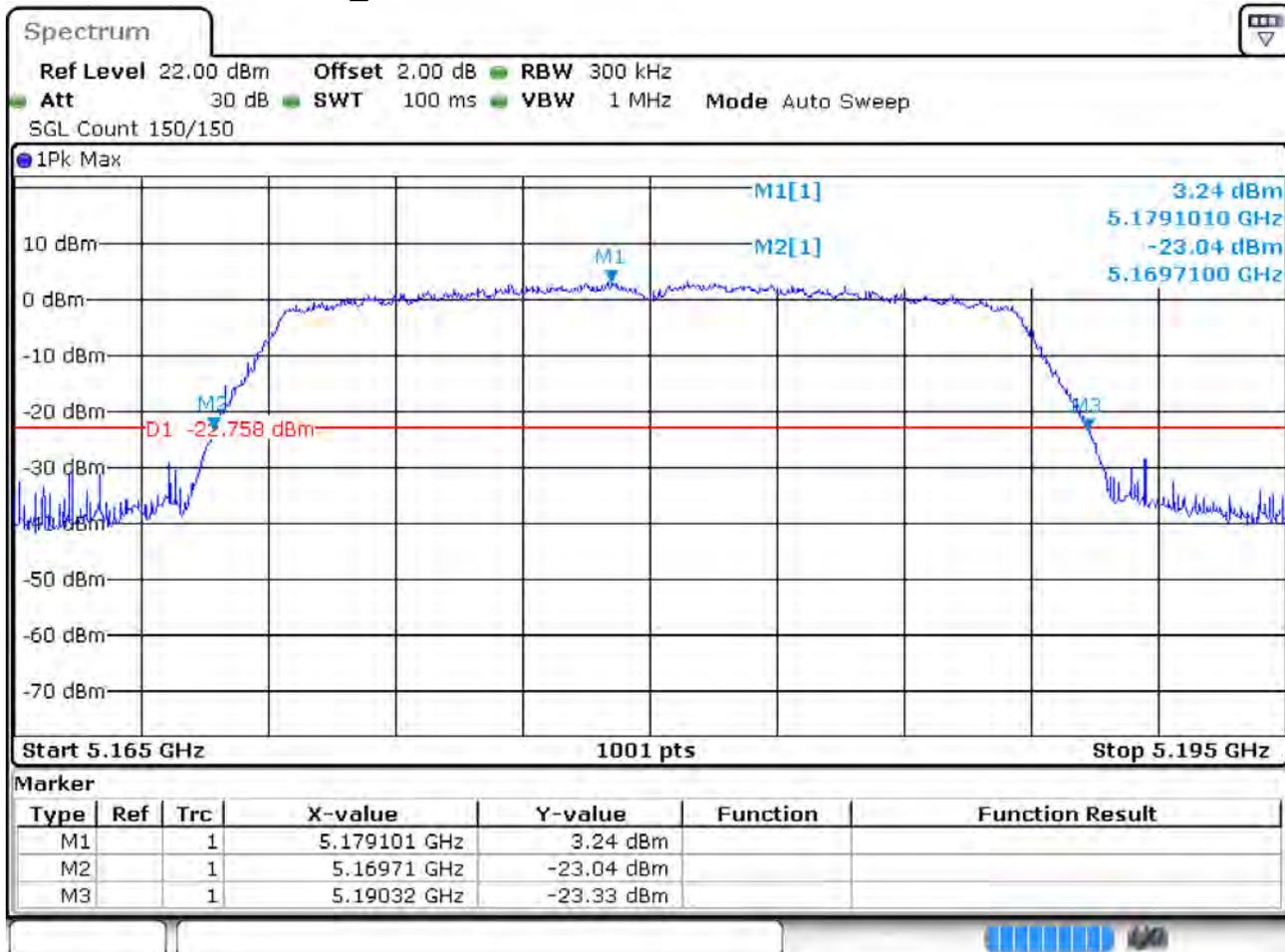


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4.5.2.25 11AC20_36 ANT 1



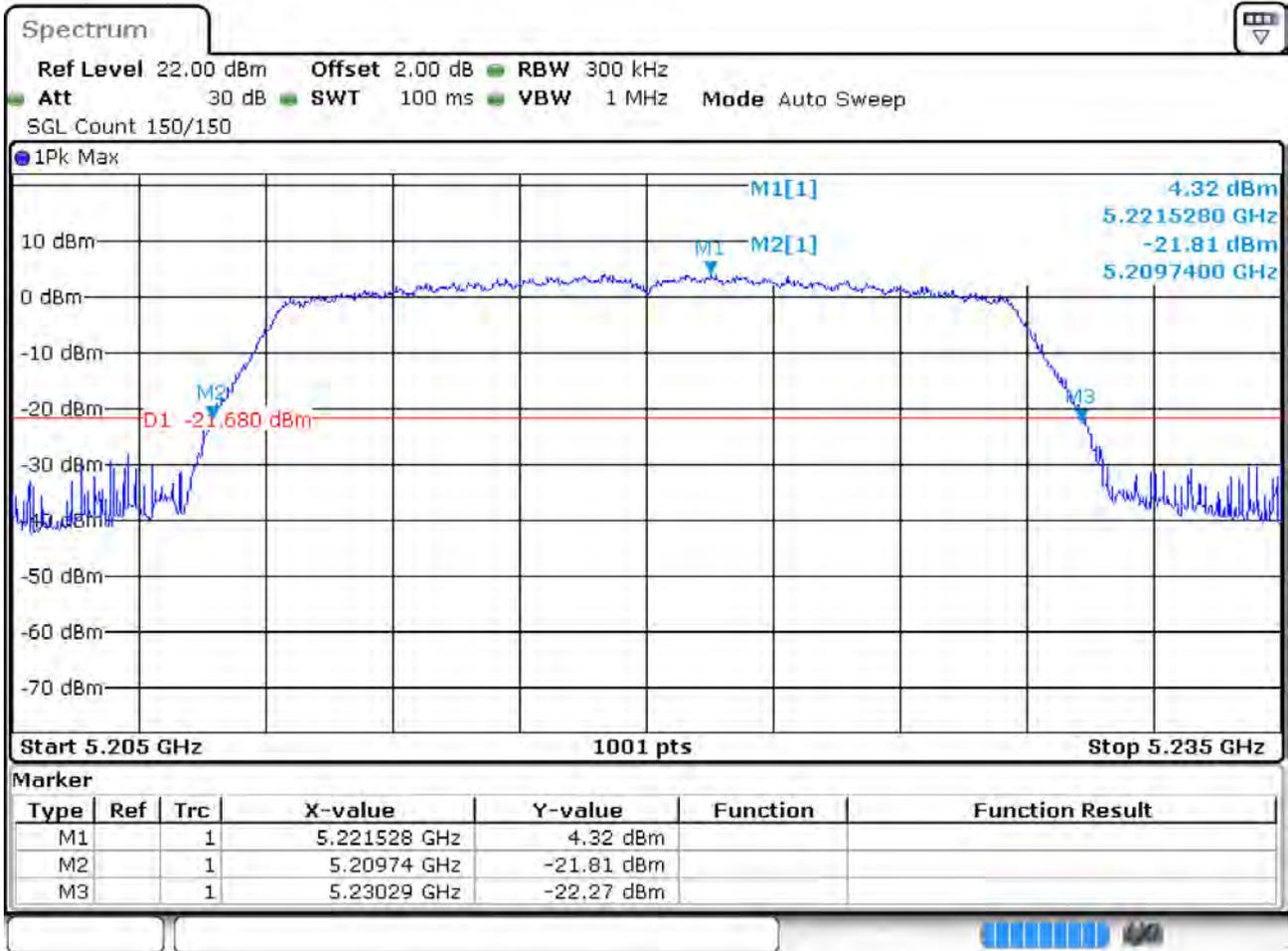
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4.5.2.26 11AC20_44 ANT 1



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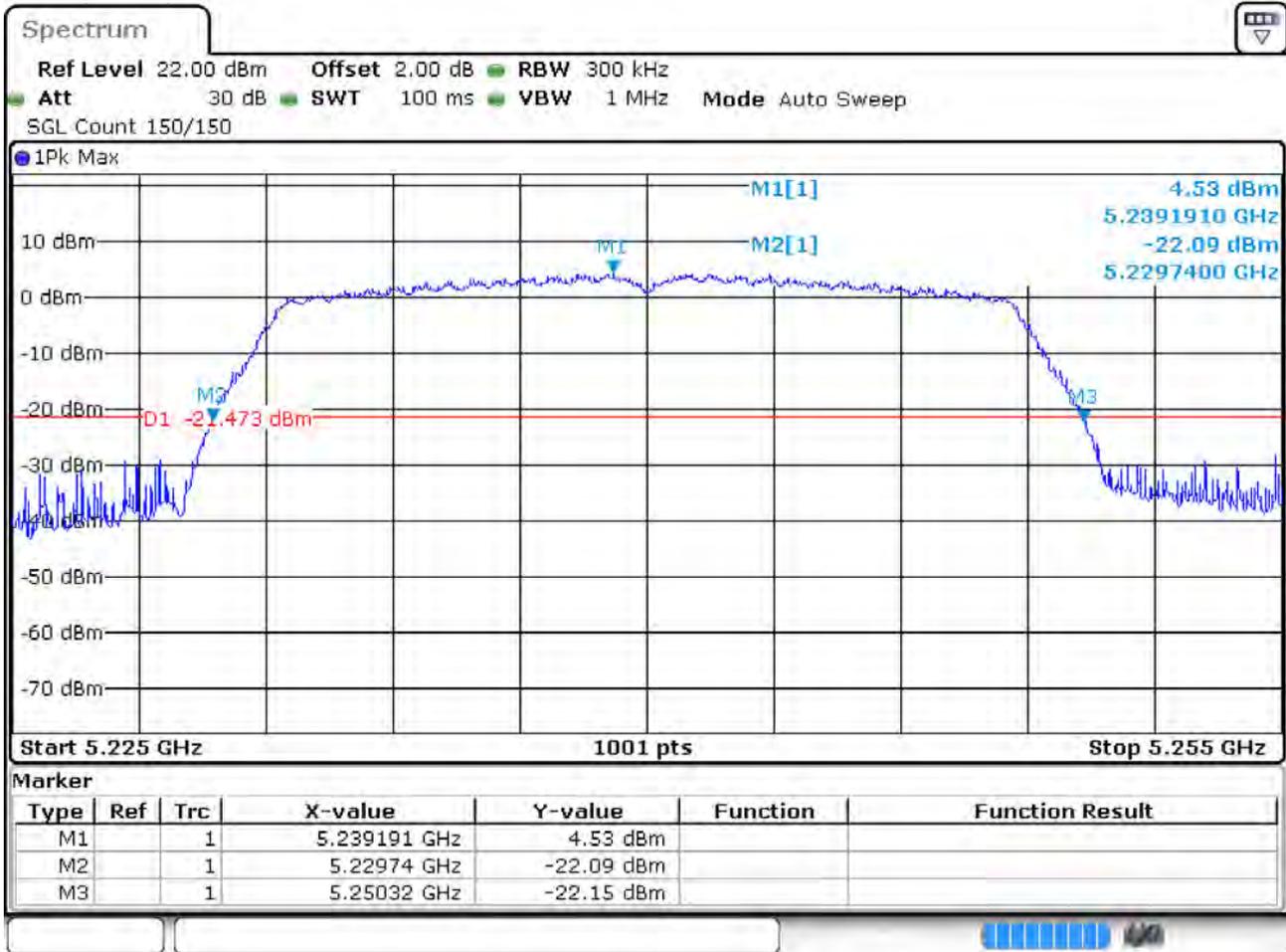


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4.5.2.27 11AC20_48 ANT 1



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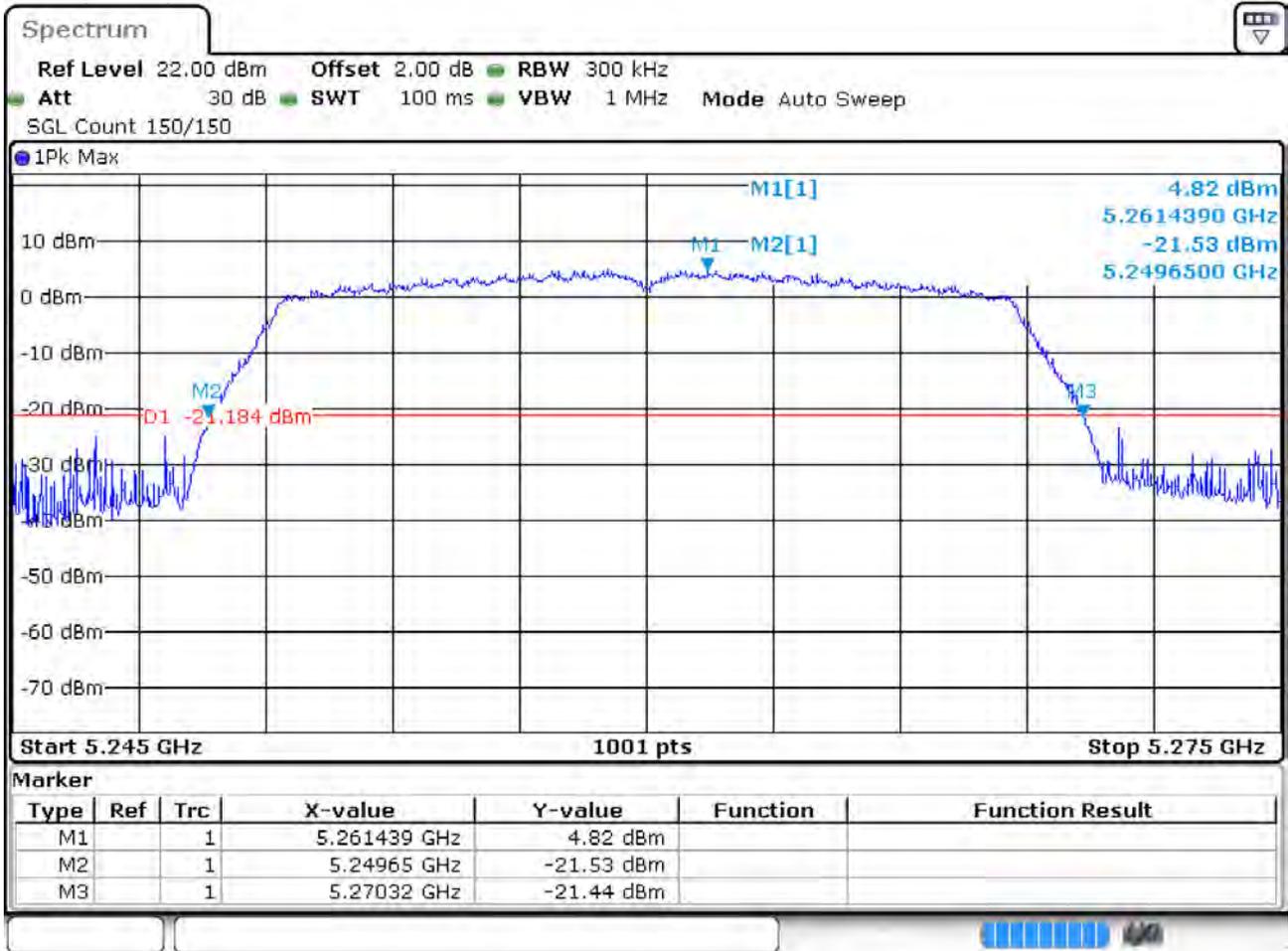


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4.5.2.28 11AC20_52 ANT 1



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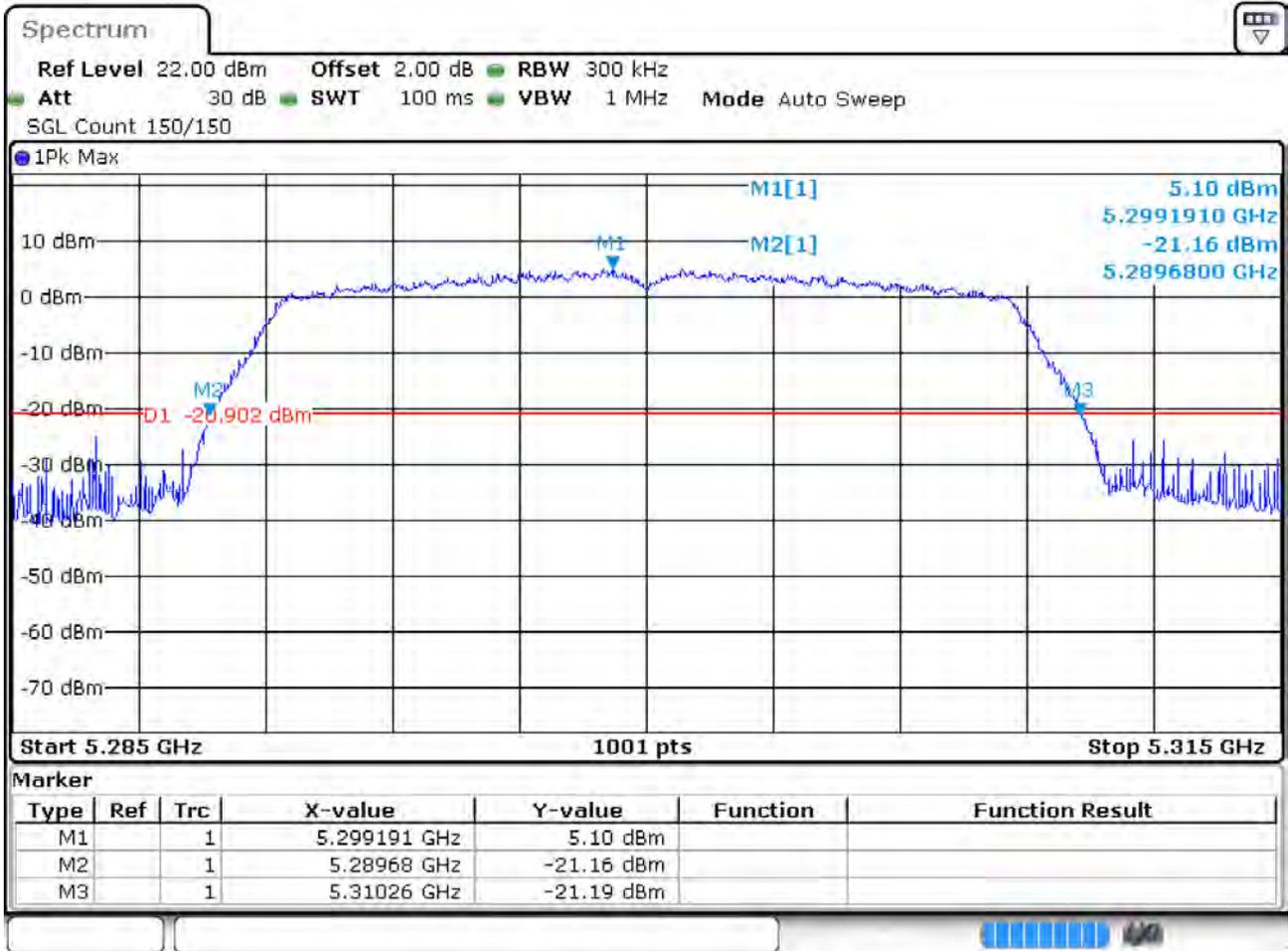


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4.5.2.29 11AC20_60 ANT 1



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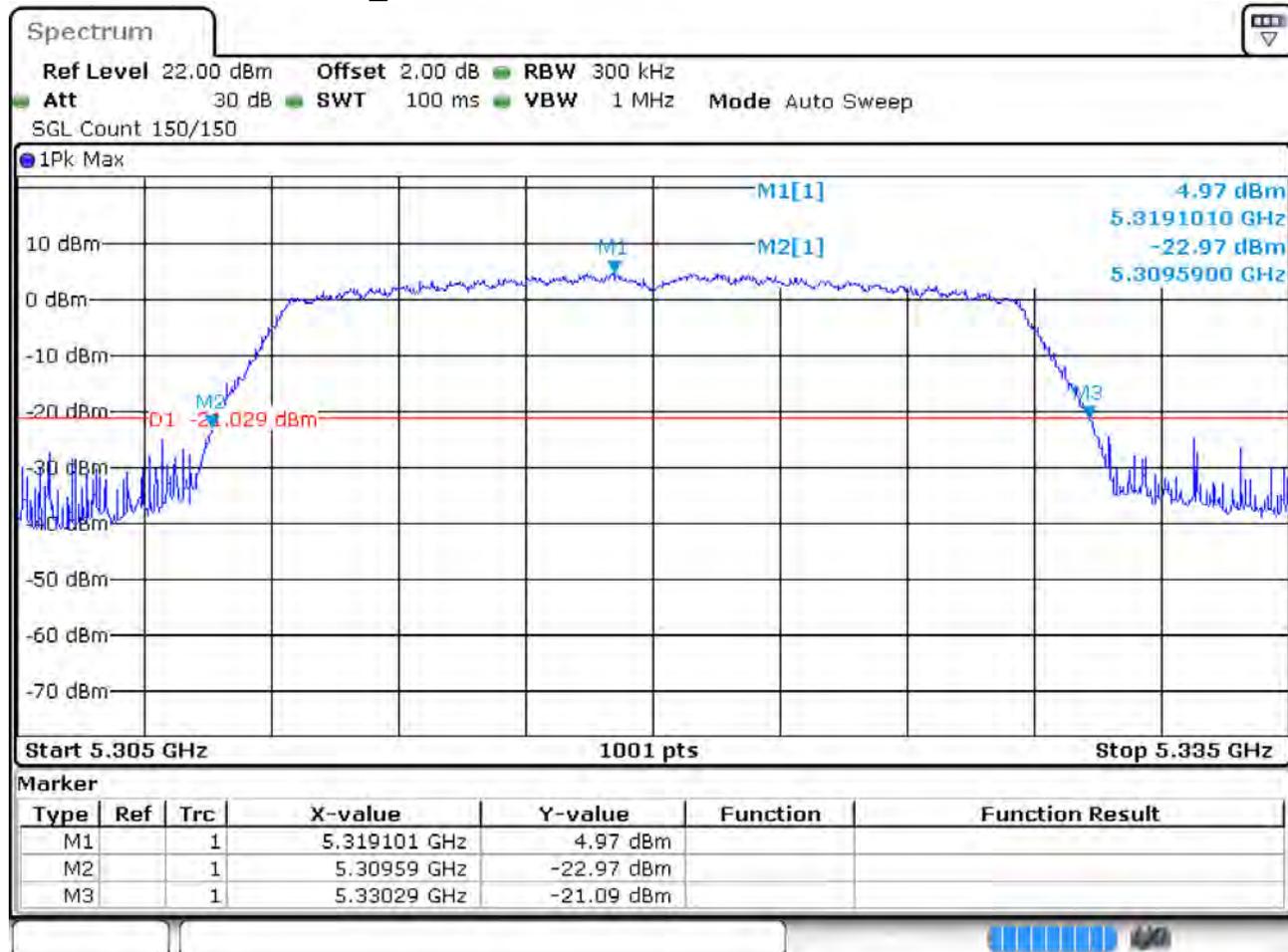


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4.5.2.30 11AC20_64 ANT 1



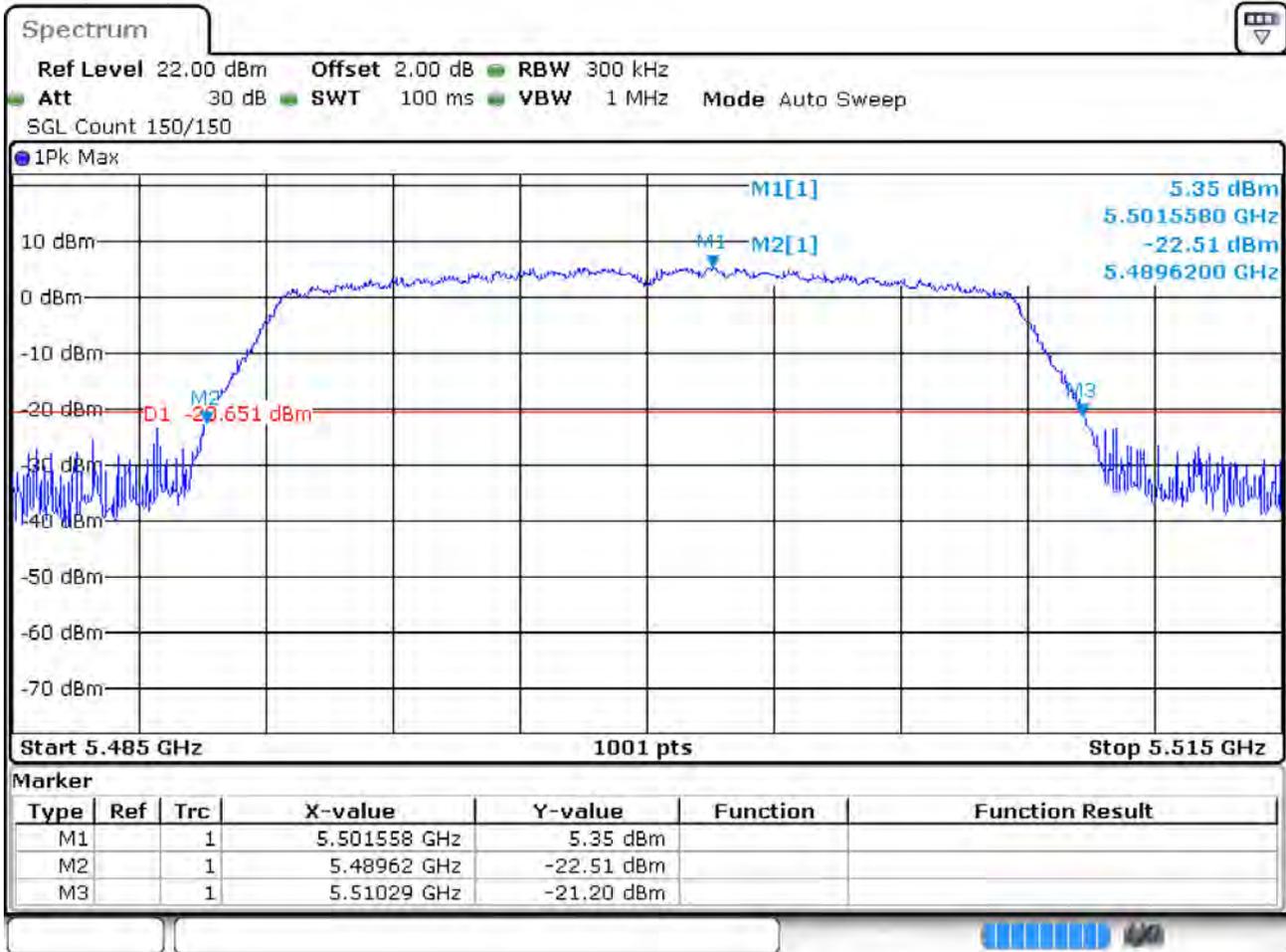
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4.5.2.31 11AC20_100 ANT 1



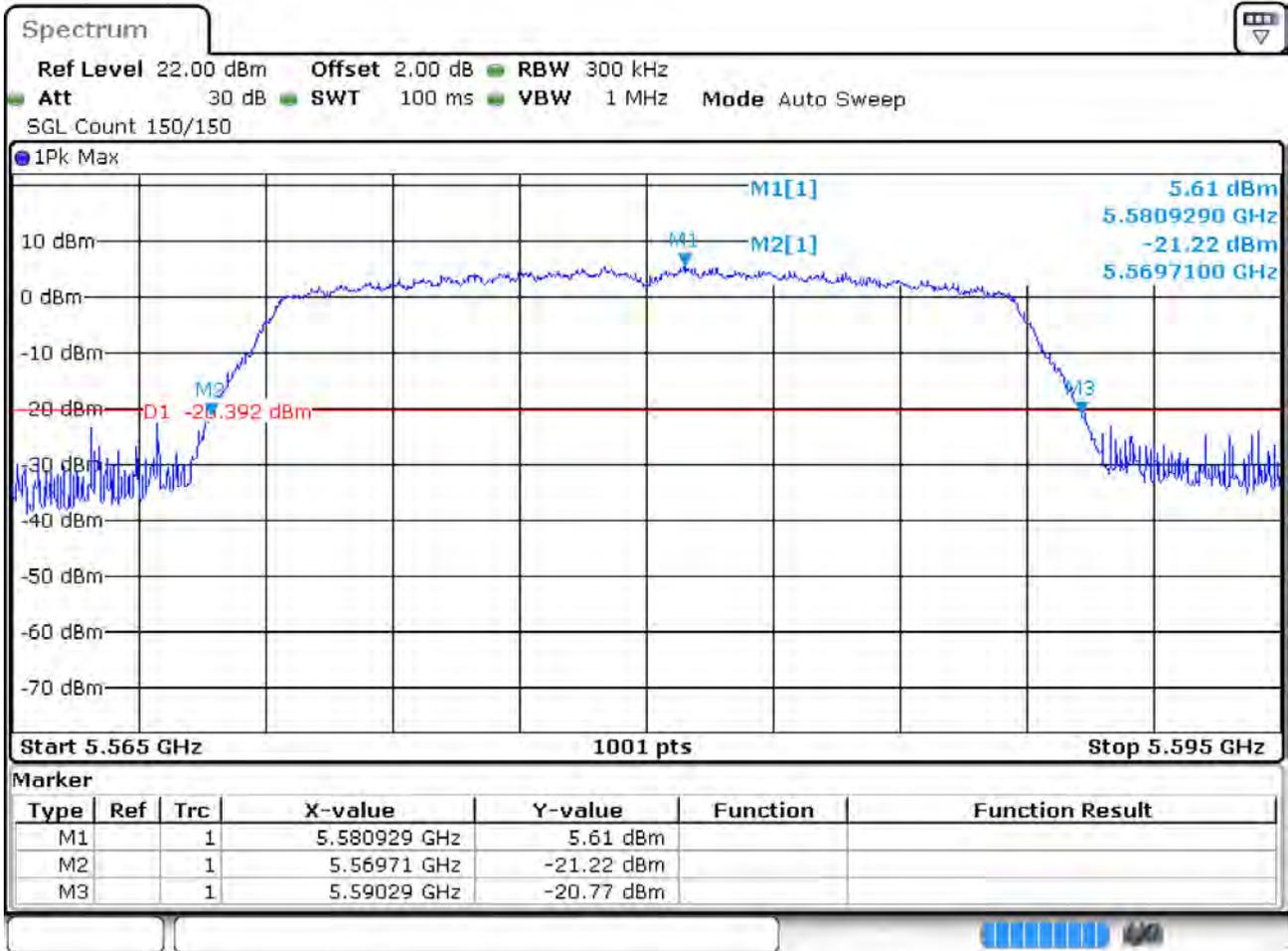
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4.5.2.32 11AC20_116 ANT 1



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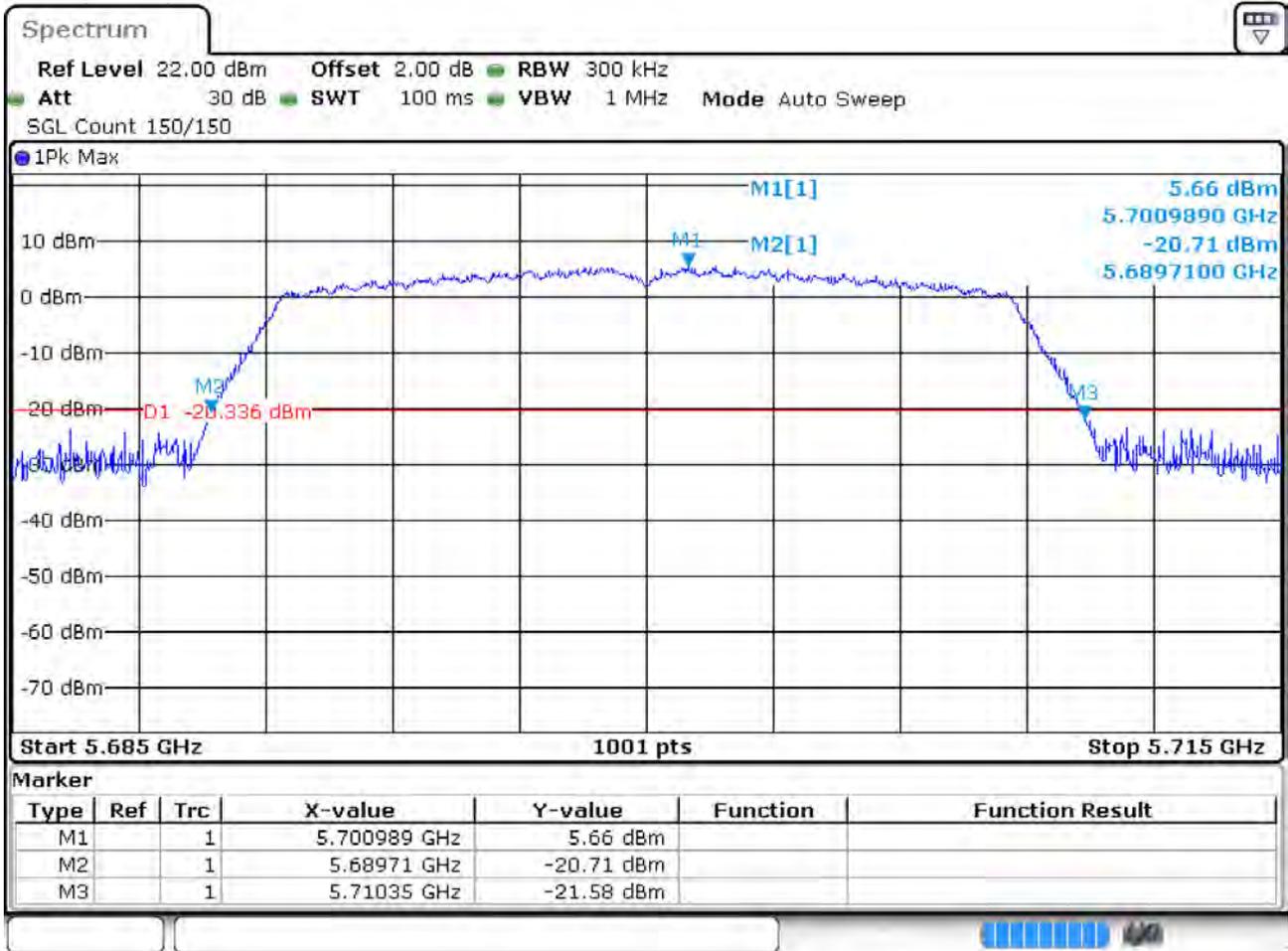


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4.5.2.33 11AC20_140 ANT 1



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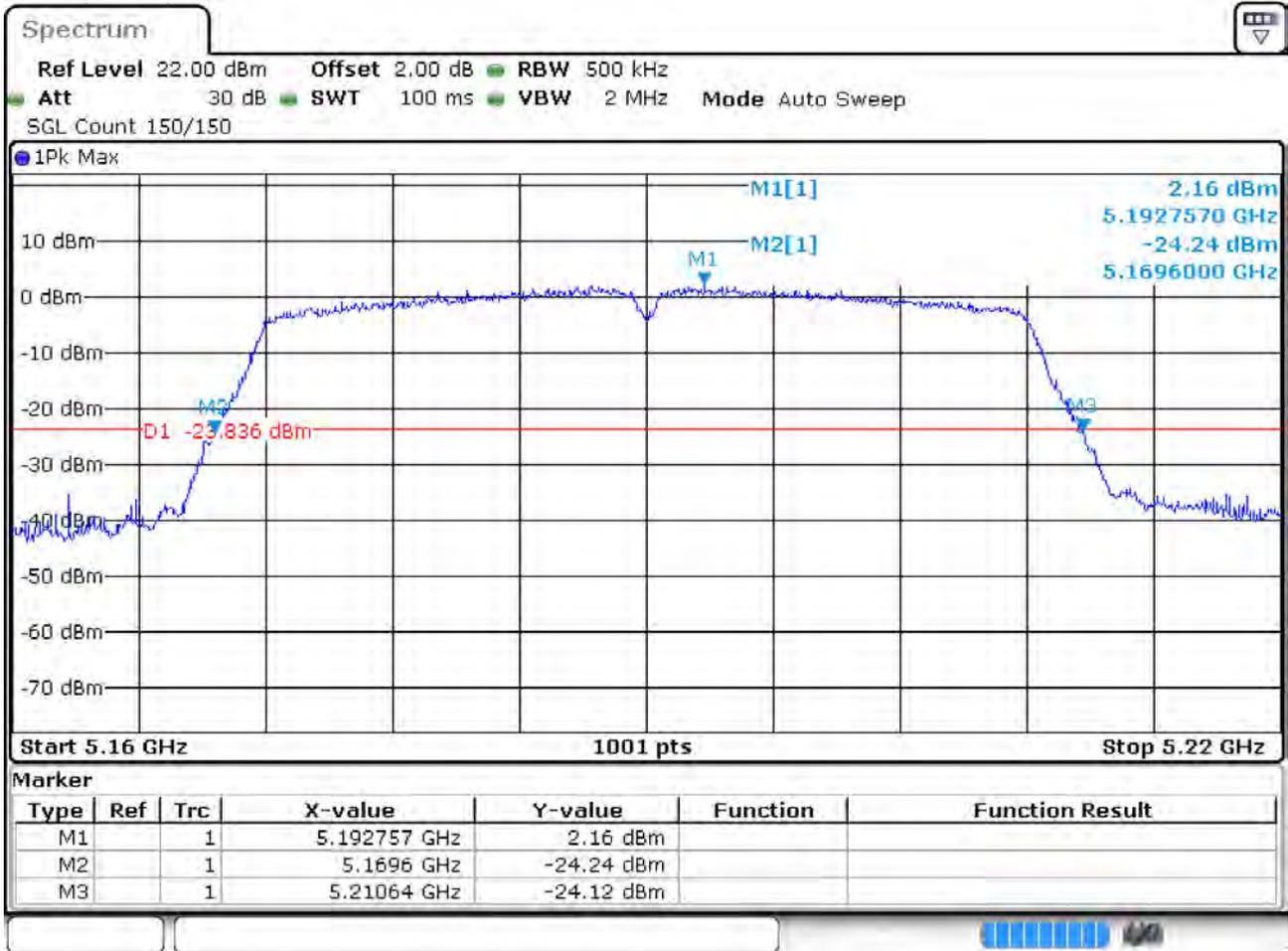


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4.5.2.34 11AC40_38 ANT 1



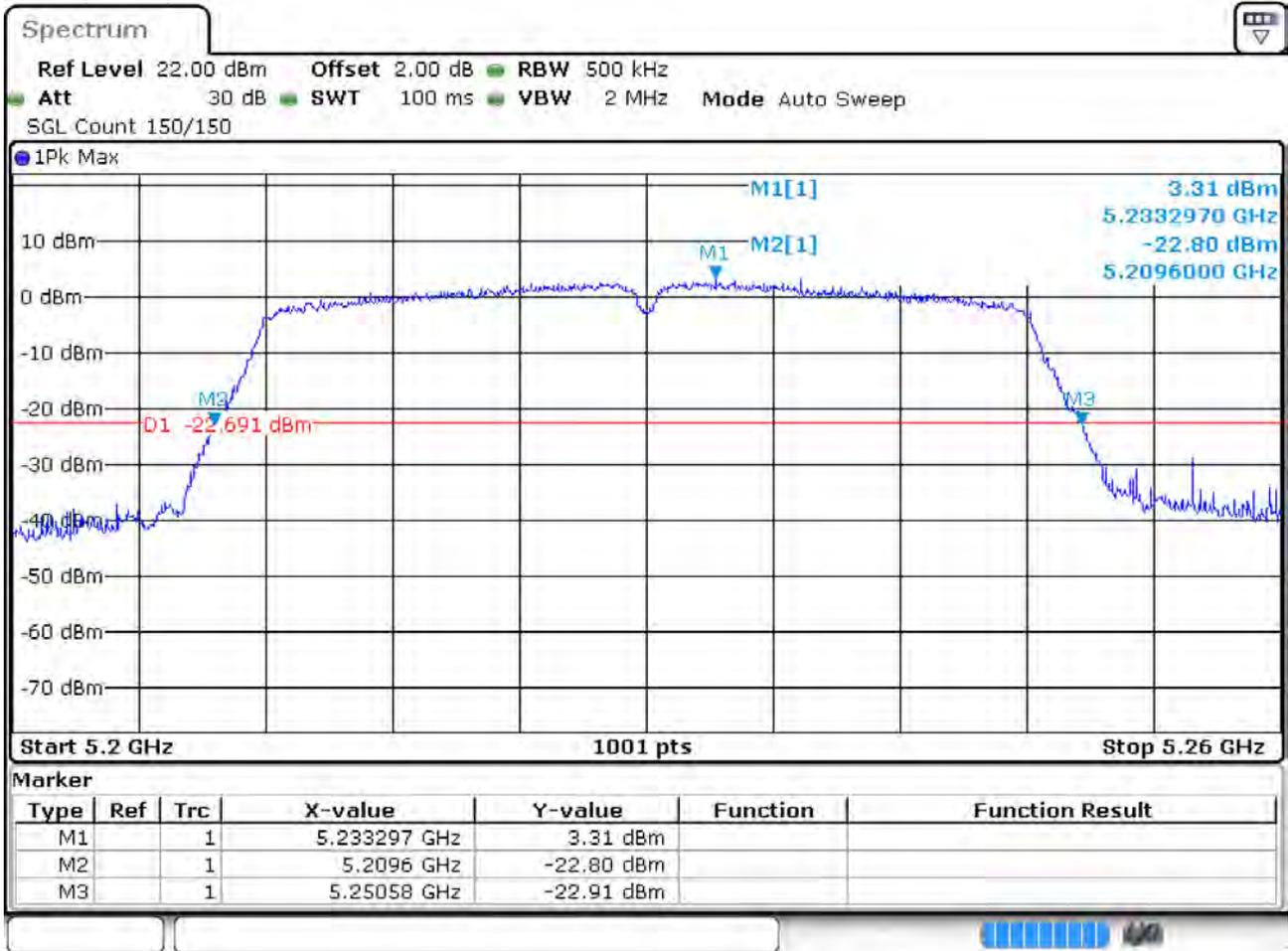
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4.5.2.35 11AC40_46 ANT 1



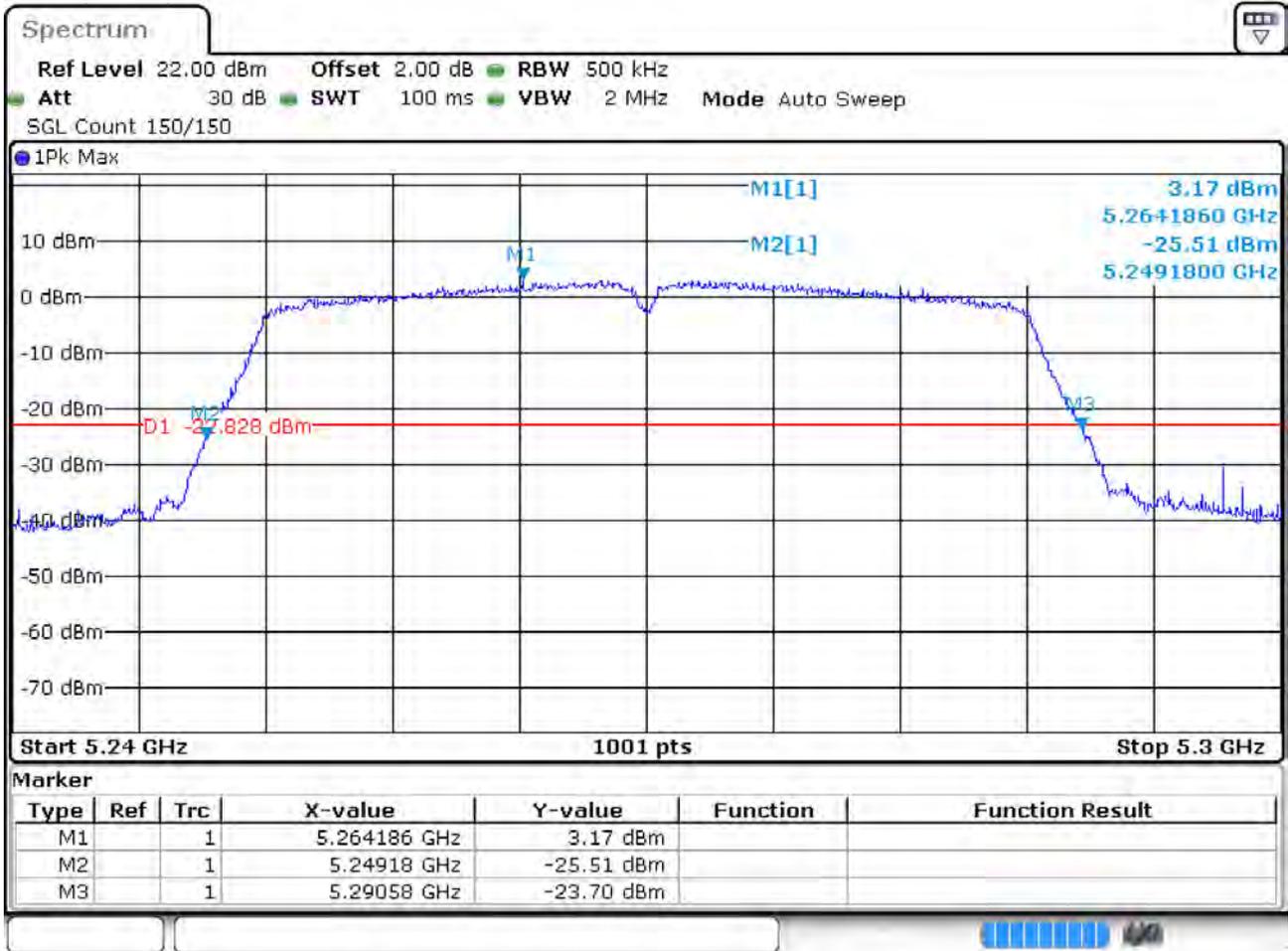
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4.5.2.36 11AC40_54 ANT 1



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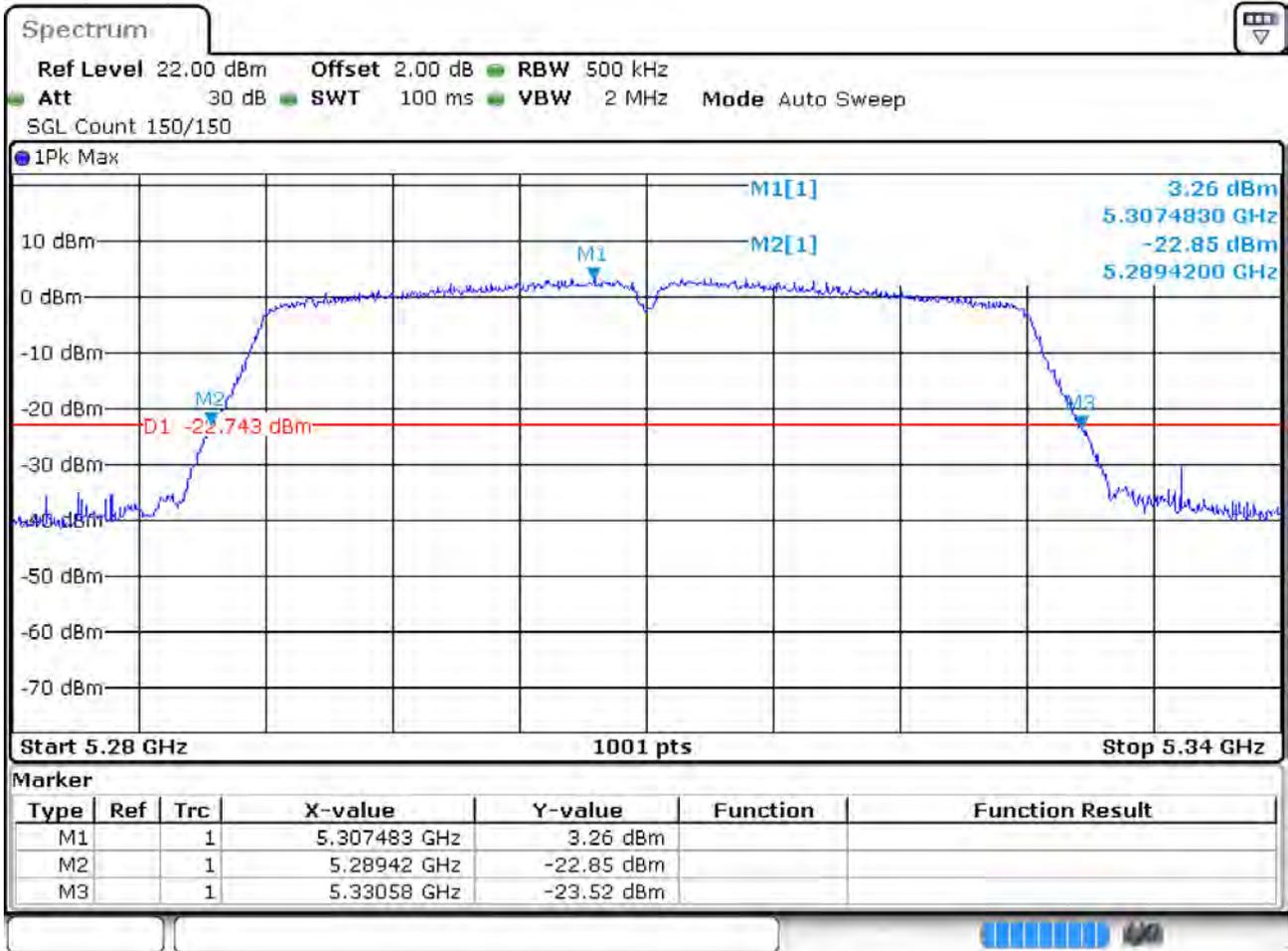


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4.5.2.37 11AC40_62 ANT 1



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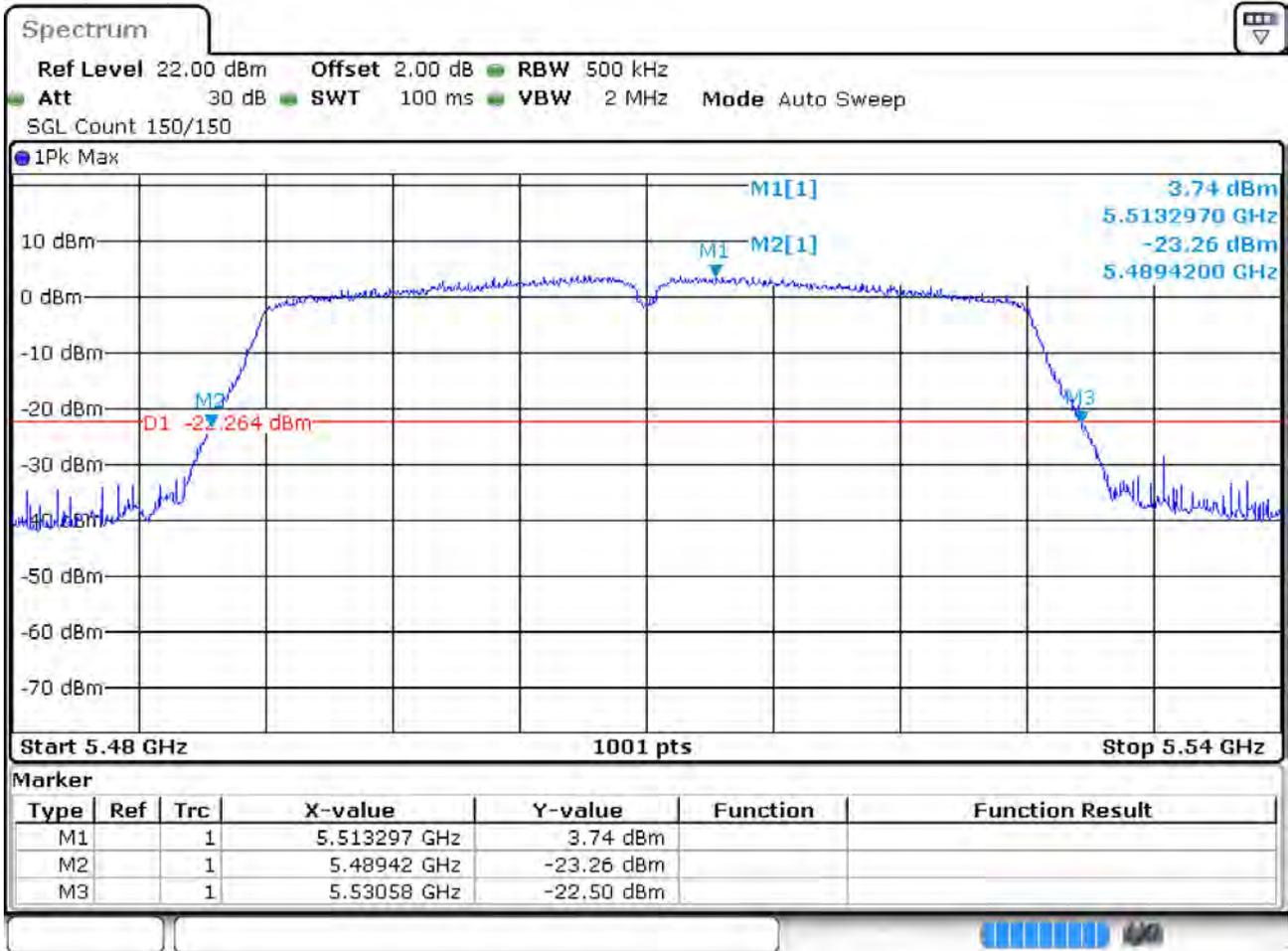


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4.5.2.38 11AC40_102 ANT 1



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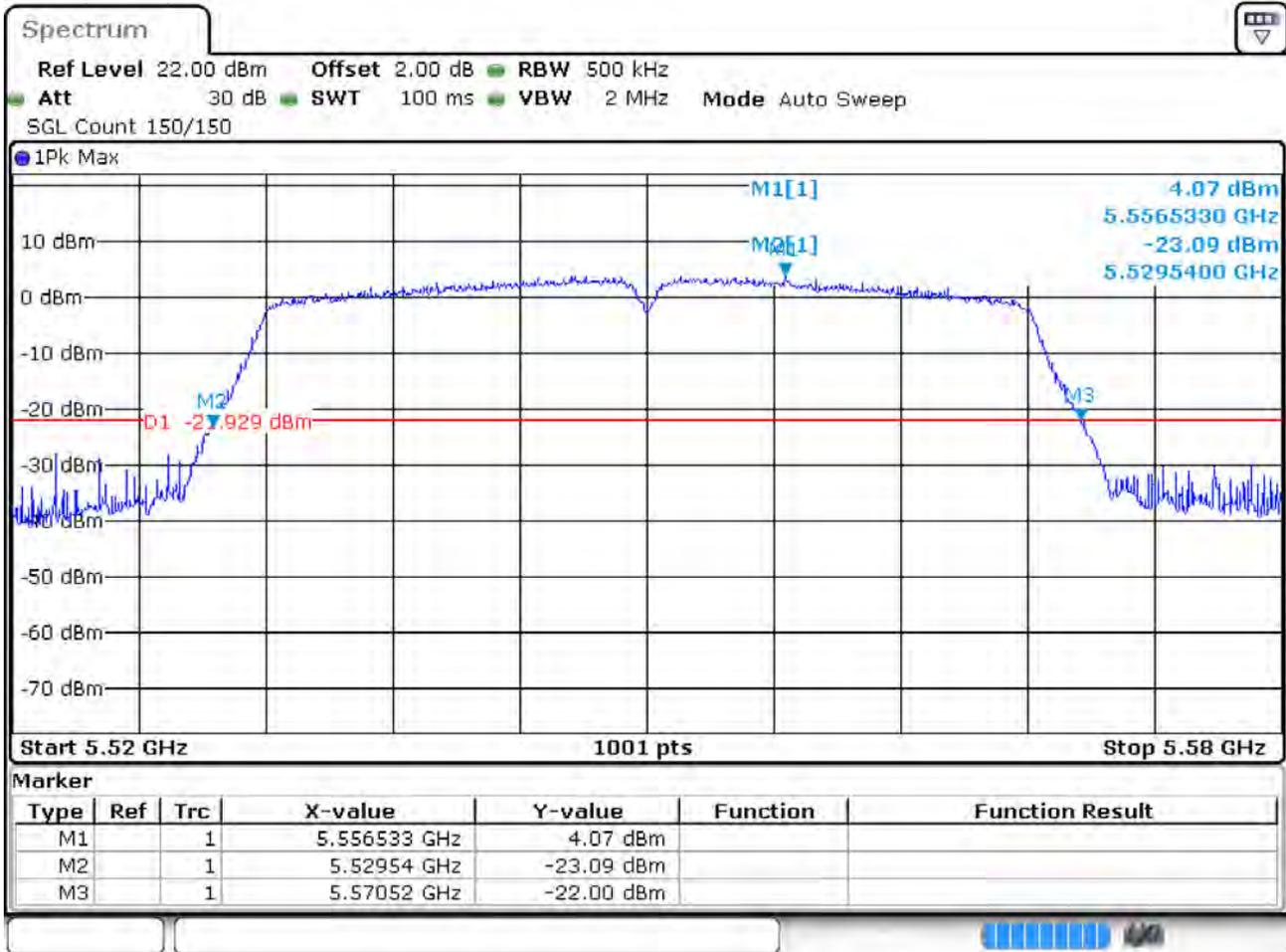


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4.5.2.39 11AC40_110 ANT 1



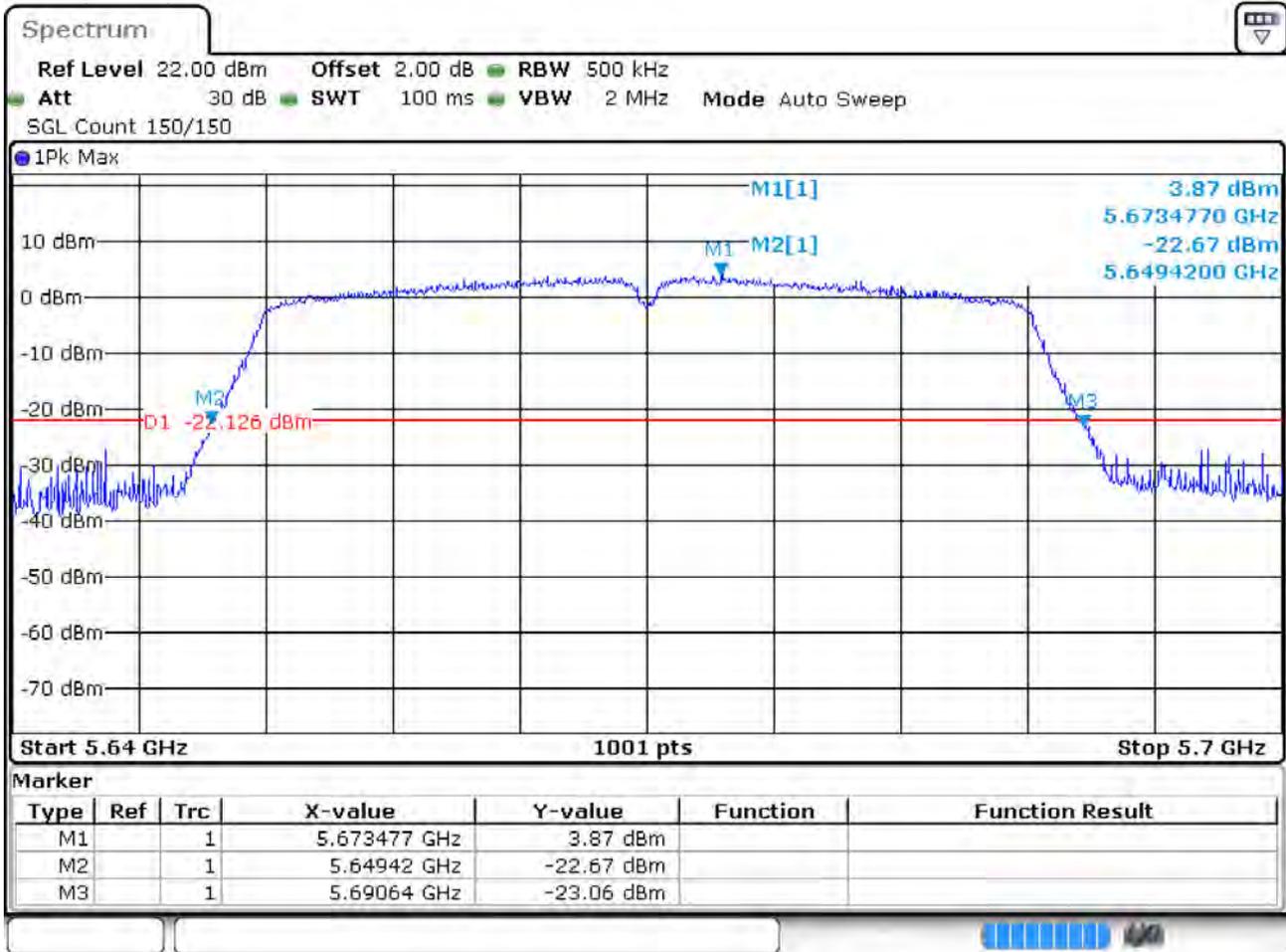
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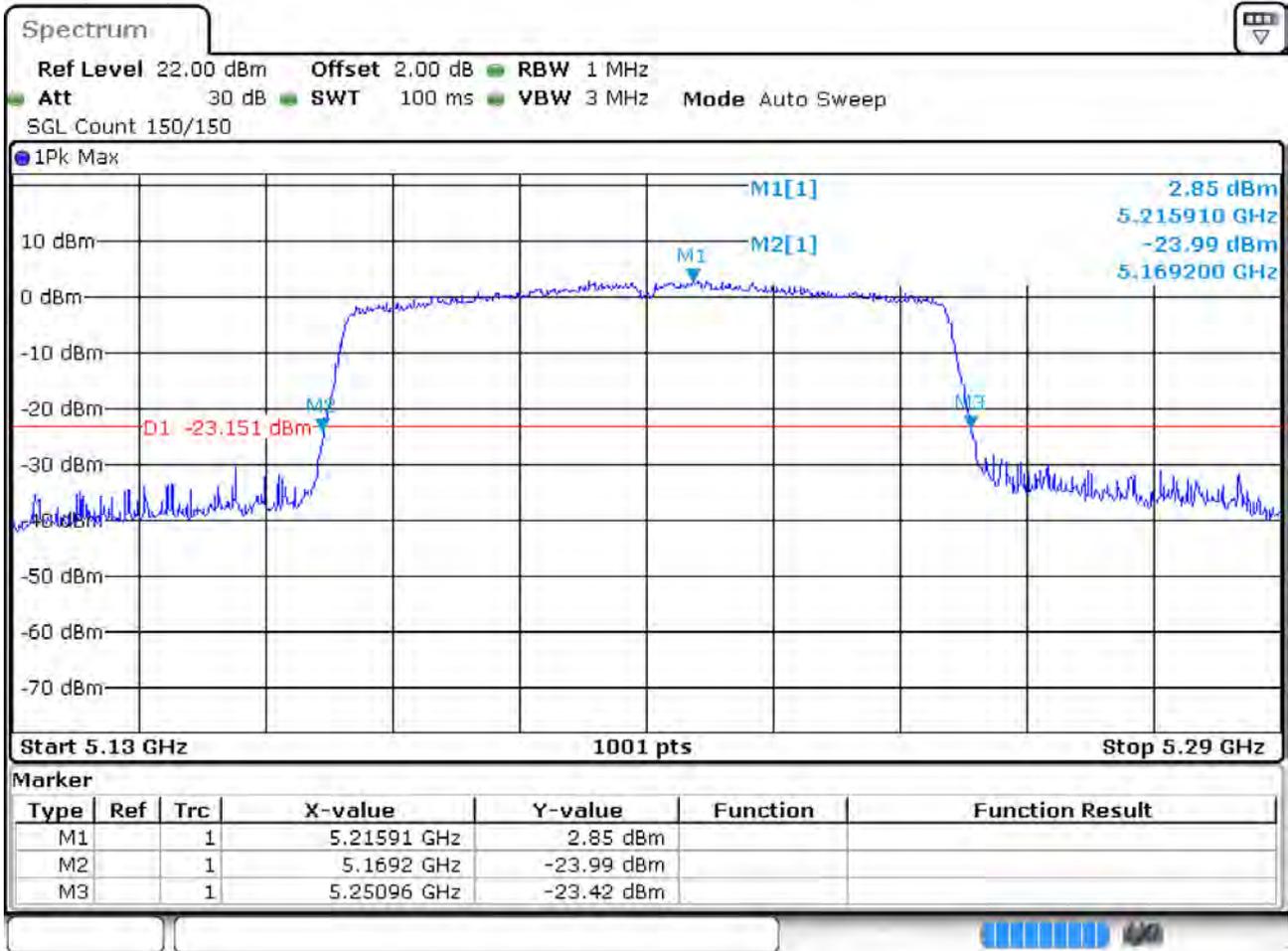


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4.5.2.41 11AC80_42 ANT 1



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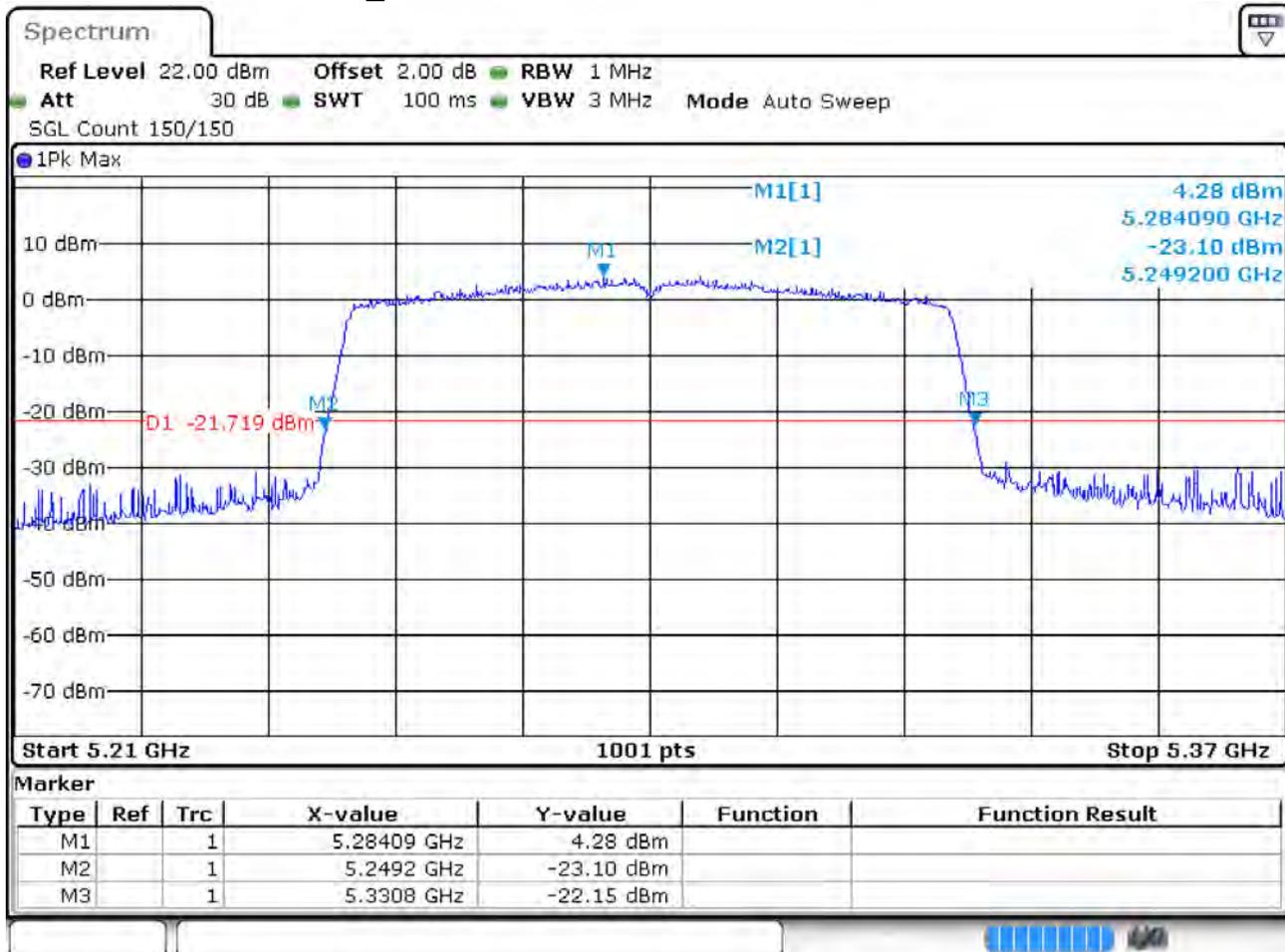


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4.5.2.42 11AC80_58 ANT 1



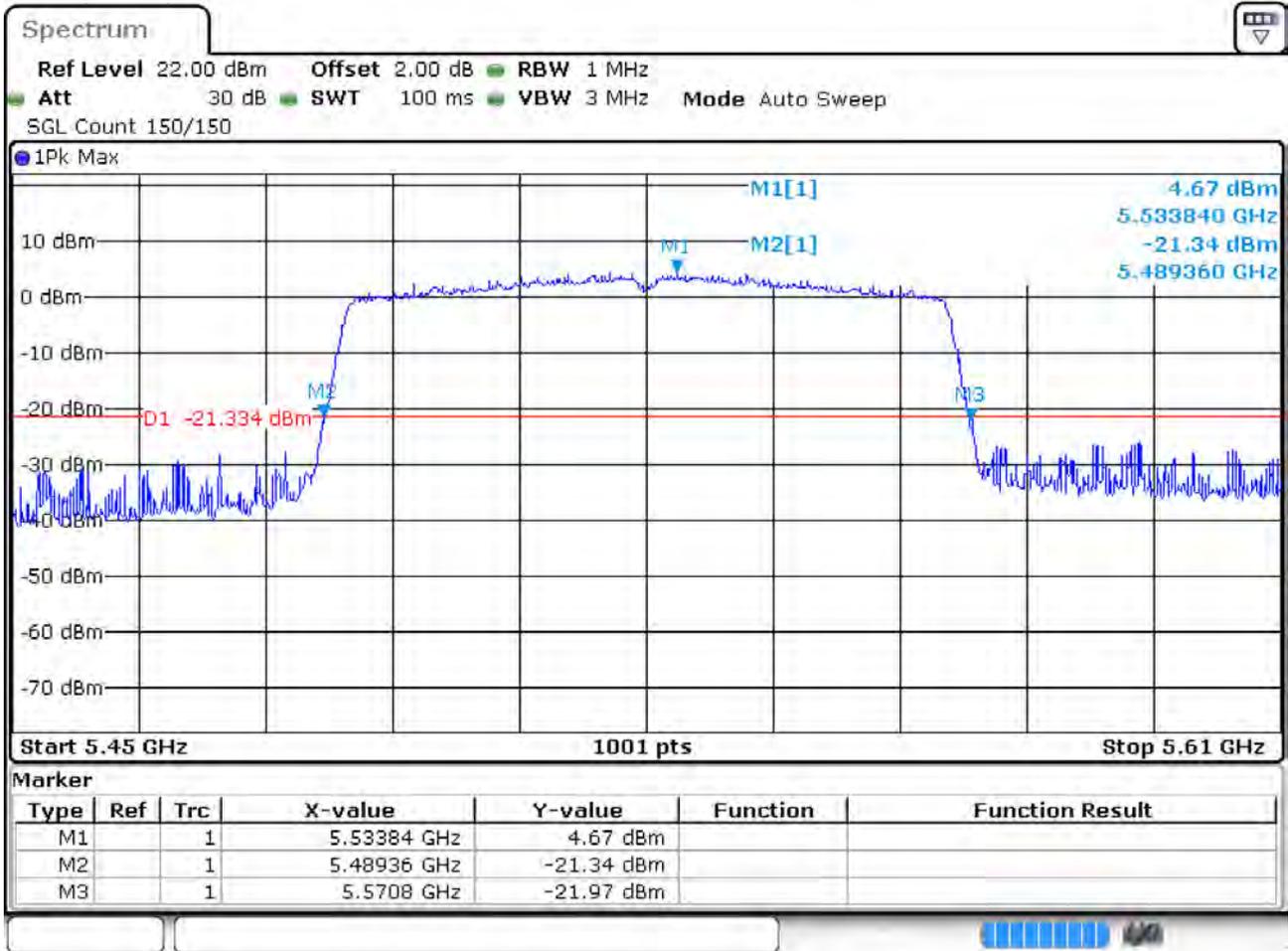
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4.5.2.43 11AC80_106 ANT 1



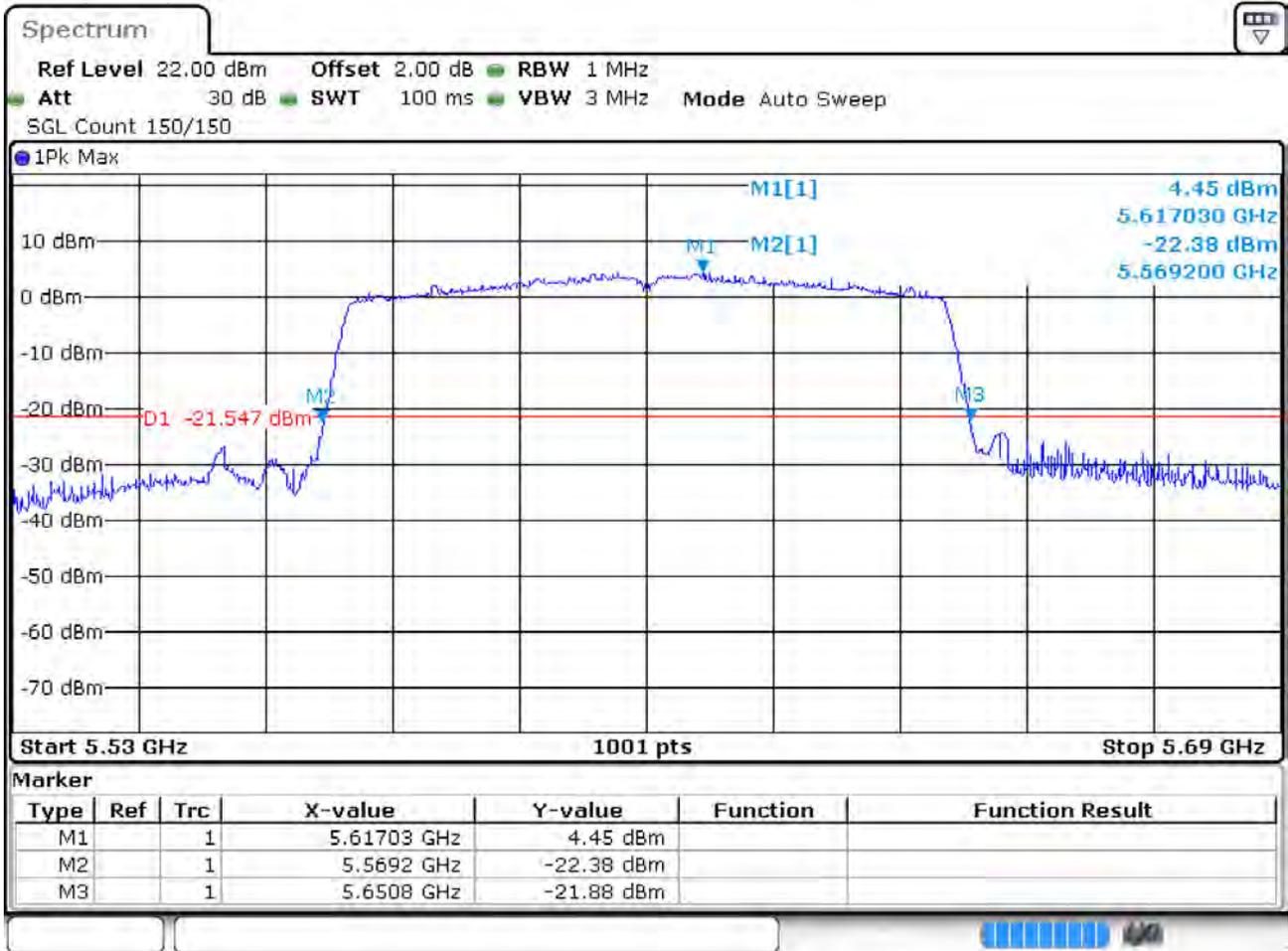
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4.5.2.44 11AC80_122 ANT 1



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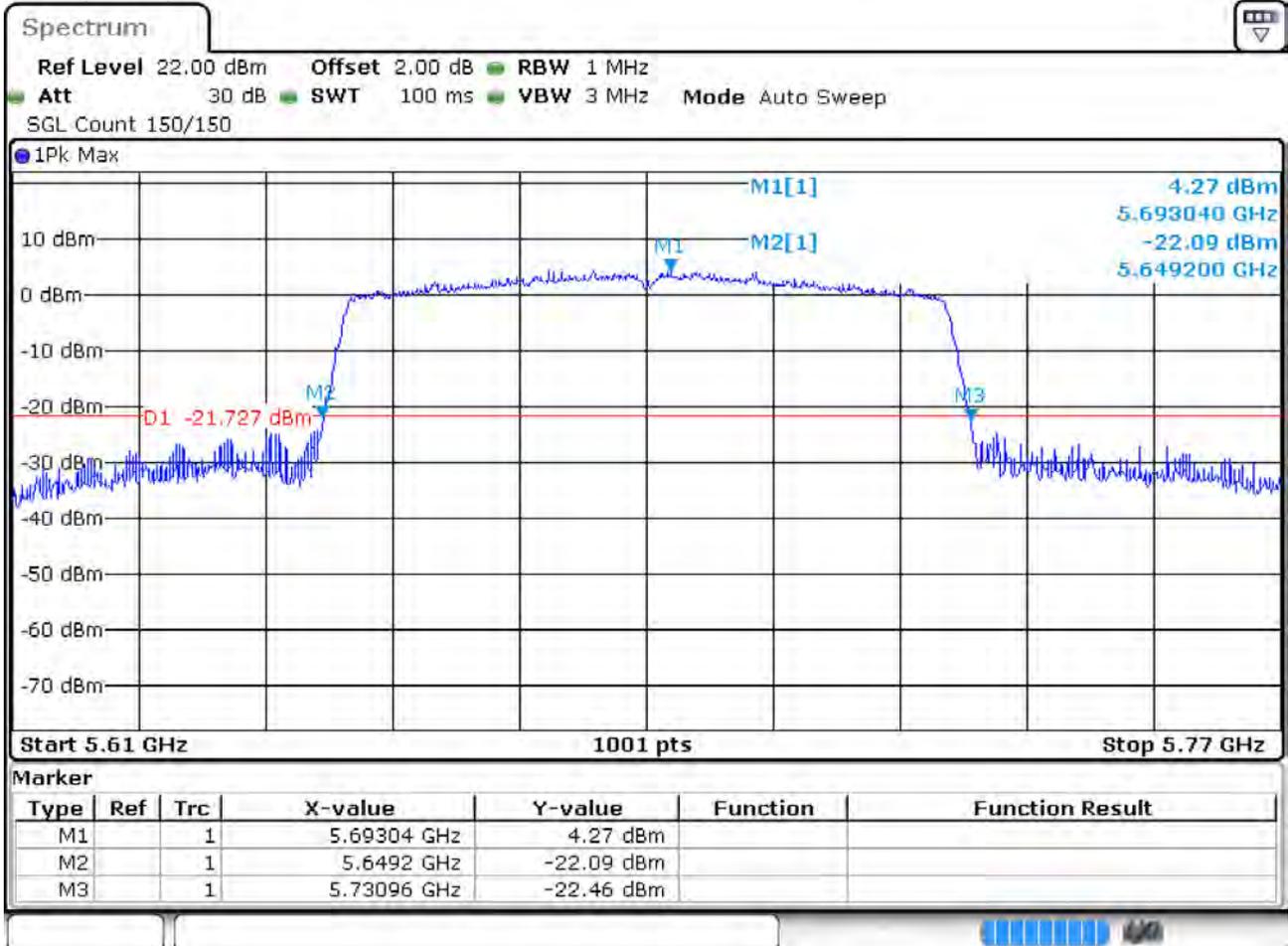


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4.5.2.45 11AC80_138 ANT 1



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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 least 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	15.21	PASS
	157	5785	ANT 1	15.39	PASS
	165	5825	ANT 1	15.18	PASS
11N20	149	5745	ANT 1	15.18	PASS
	157	5745	ANT 1	15.18	PASS
	165	5825	ANT 1	15.18	PASS
11N40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC20	149	5745	ANT 1	15.18	PASS
	149	5785	ANT 1	15.18	PASS
	165	5825	ANT 1	15.18	PASS
11AC40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC80	155	5775	ANT 1	75.52	PASS



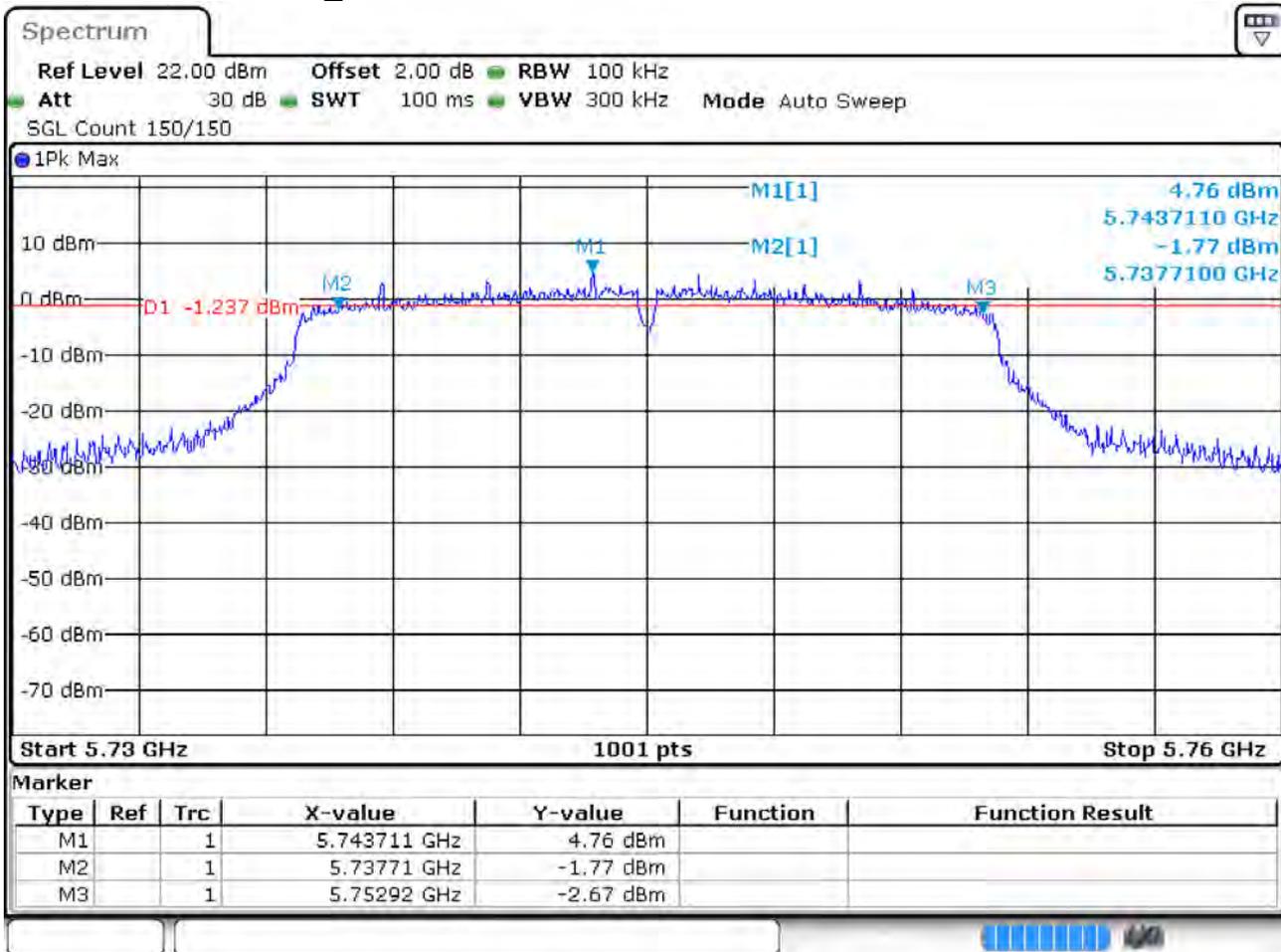
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4.6.2 Plots for 6dB Emission Bandwidth

4.6.2.1 11A20_149 ANT 1



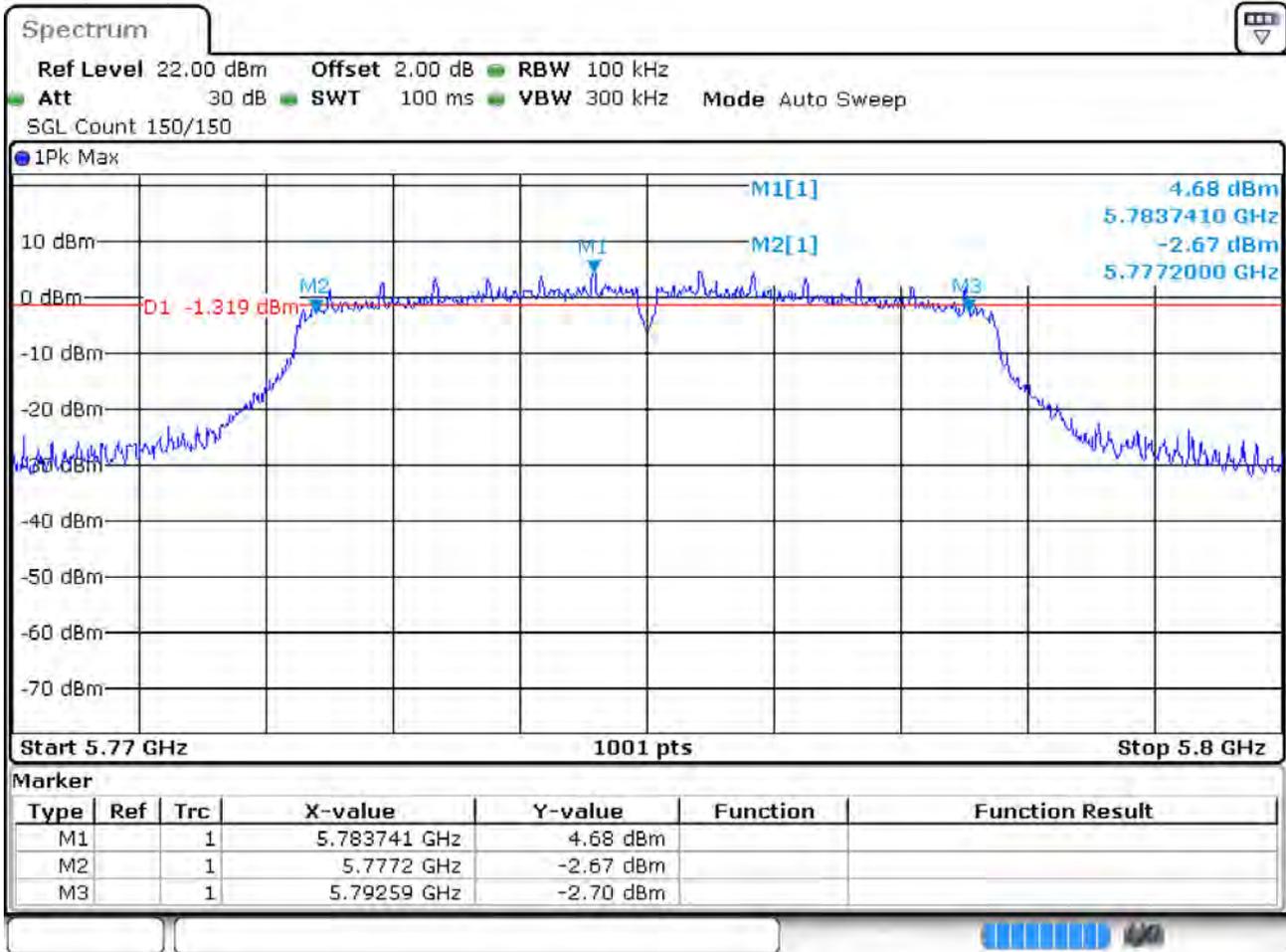
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4.6.2.2 11A20_157ANT 1



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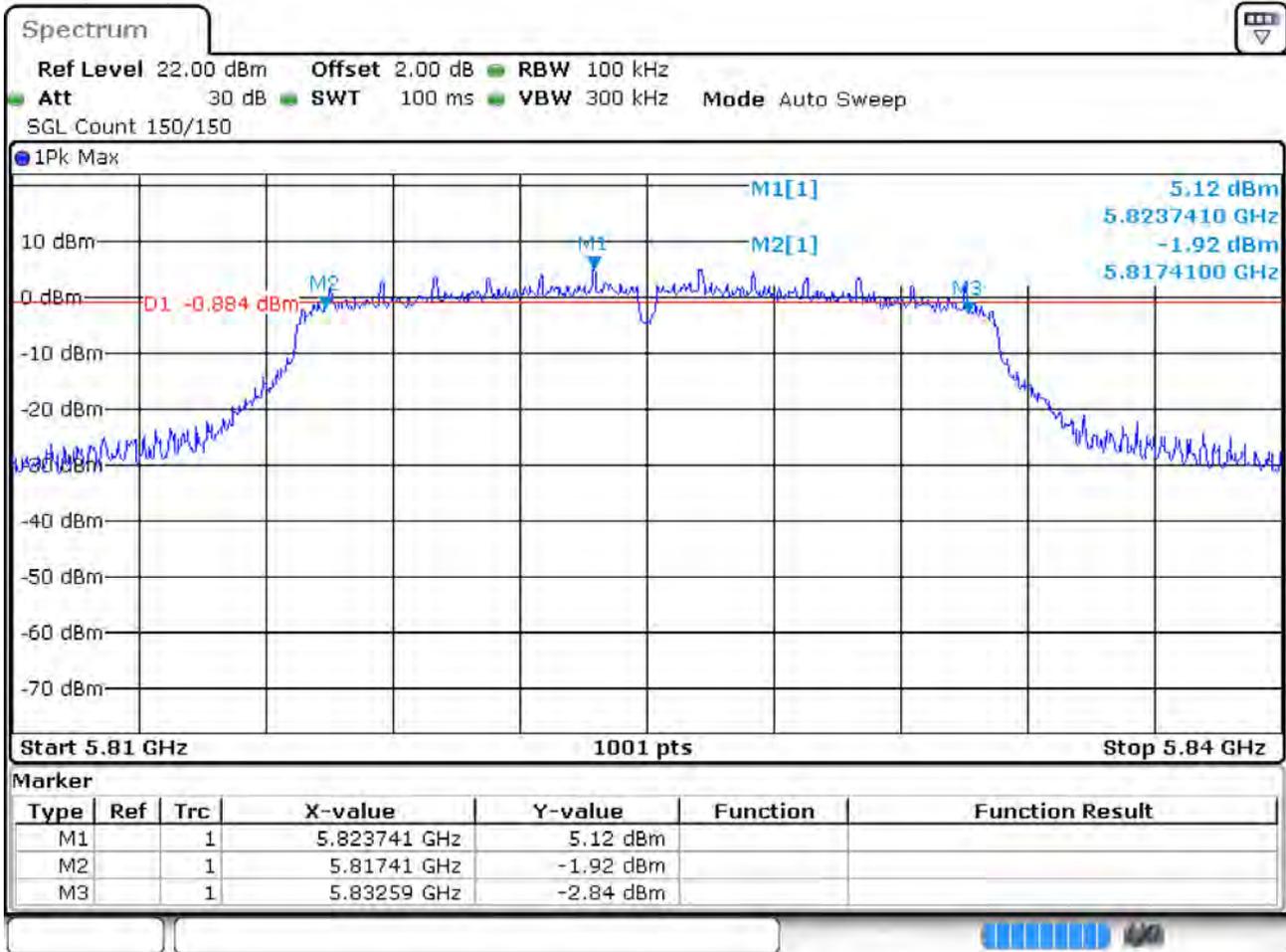


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4.6.2.3 11A20_165 ANT 1



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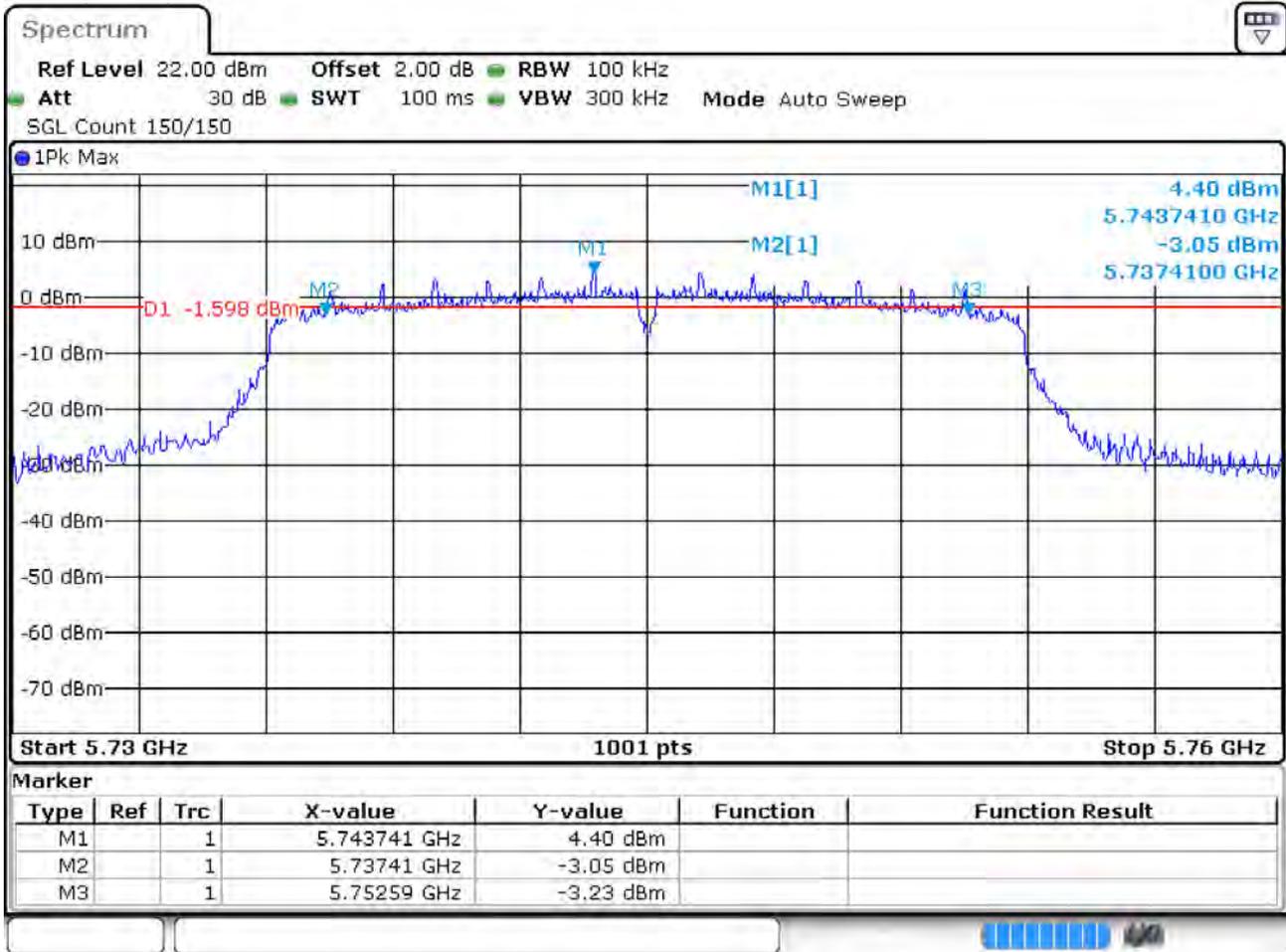


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4.6.2.4 11N20_149 ANT 1



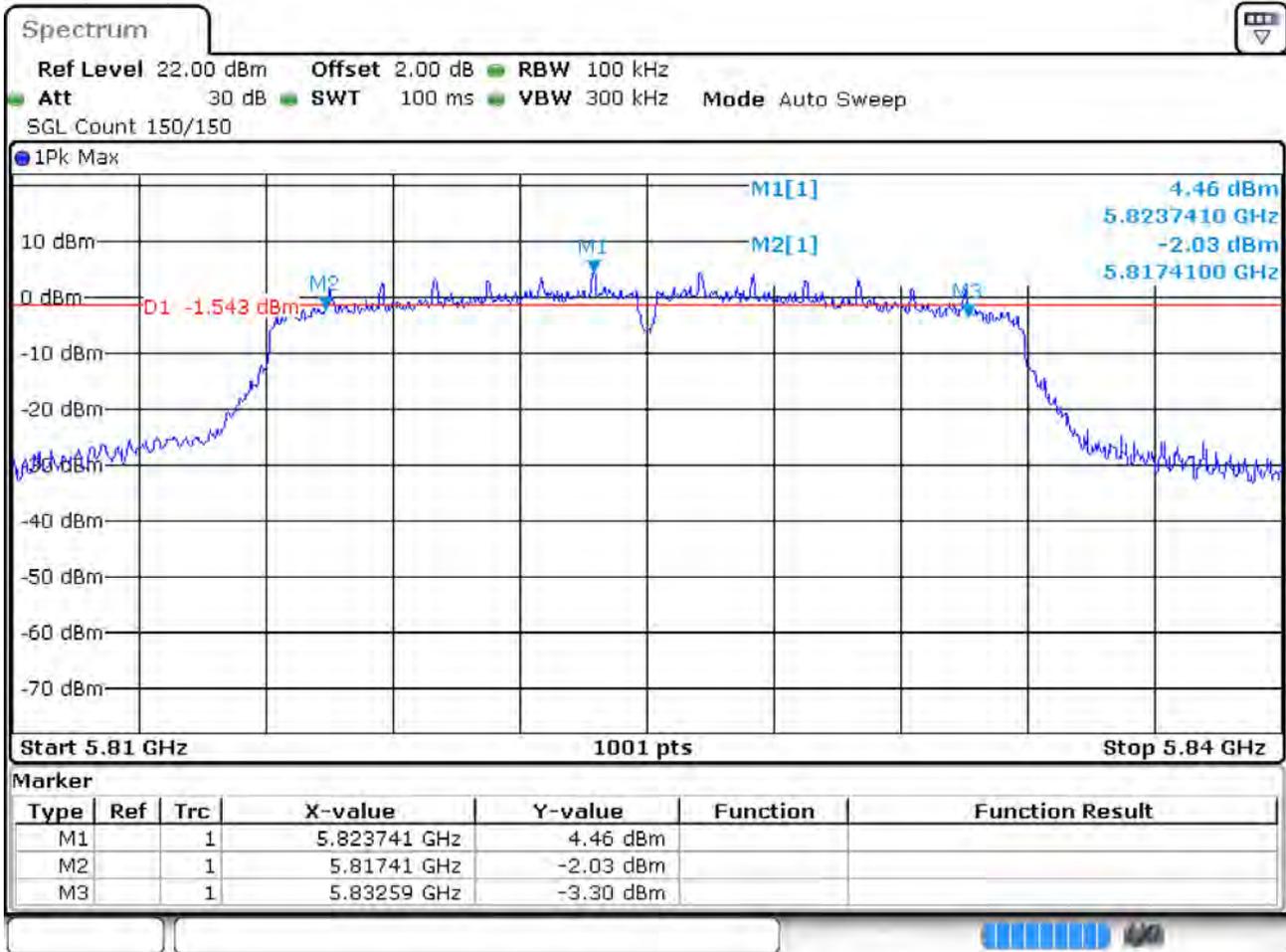
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4.6.2.5 11N20_165 ANT 1

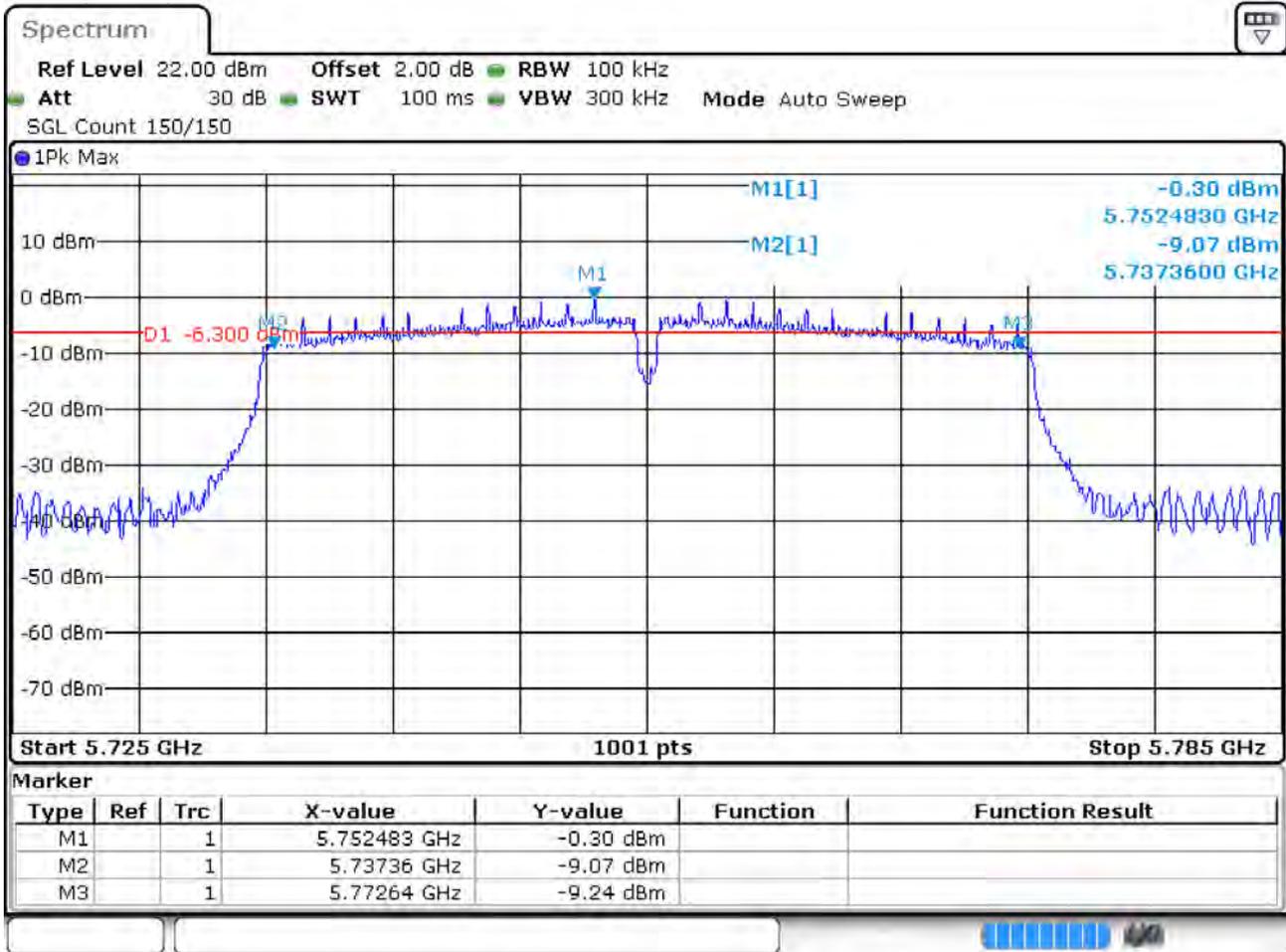


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4.6.2.6 11N40_151 ANT 1

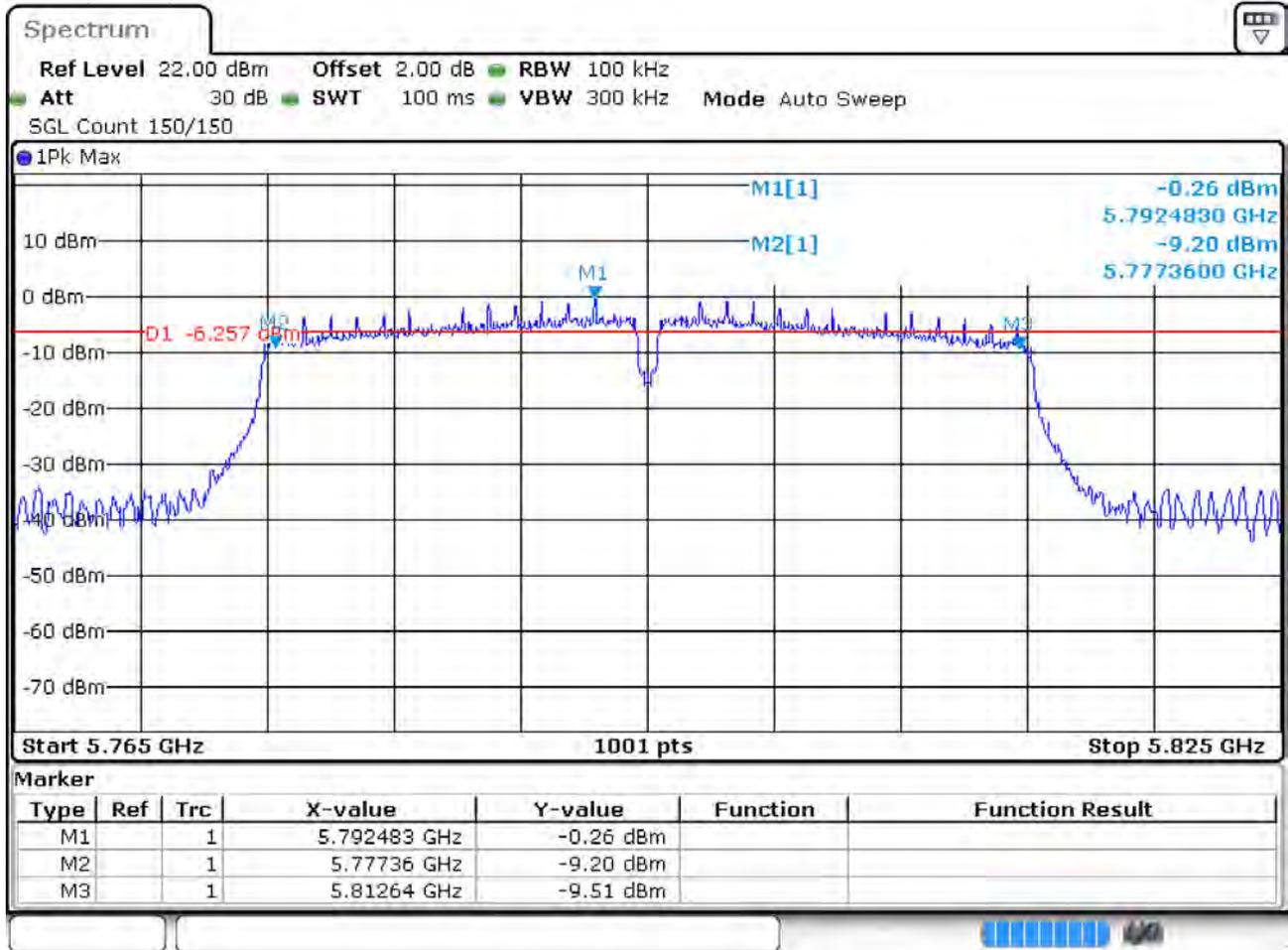


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4.6.2.7 11N40_159 ANT 1



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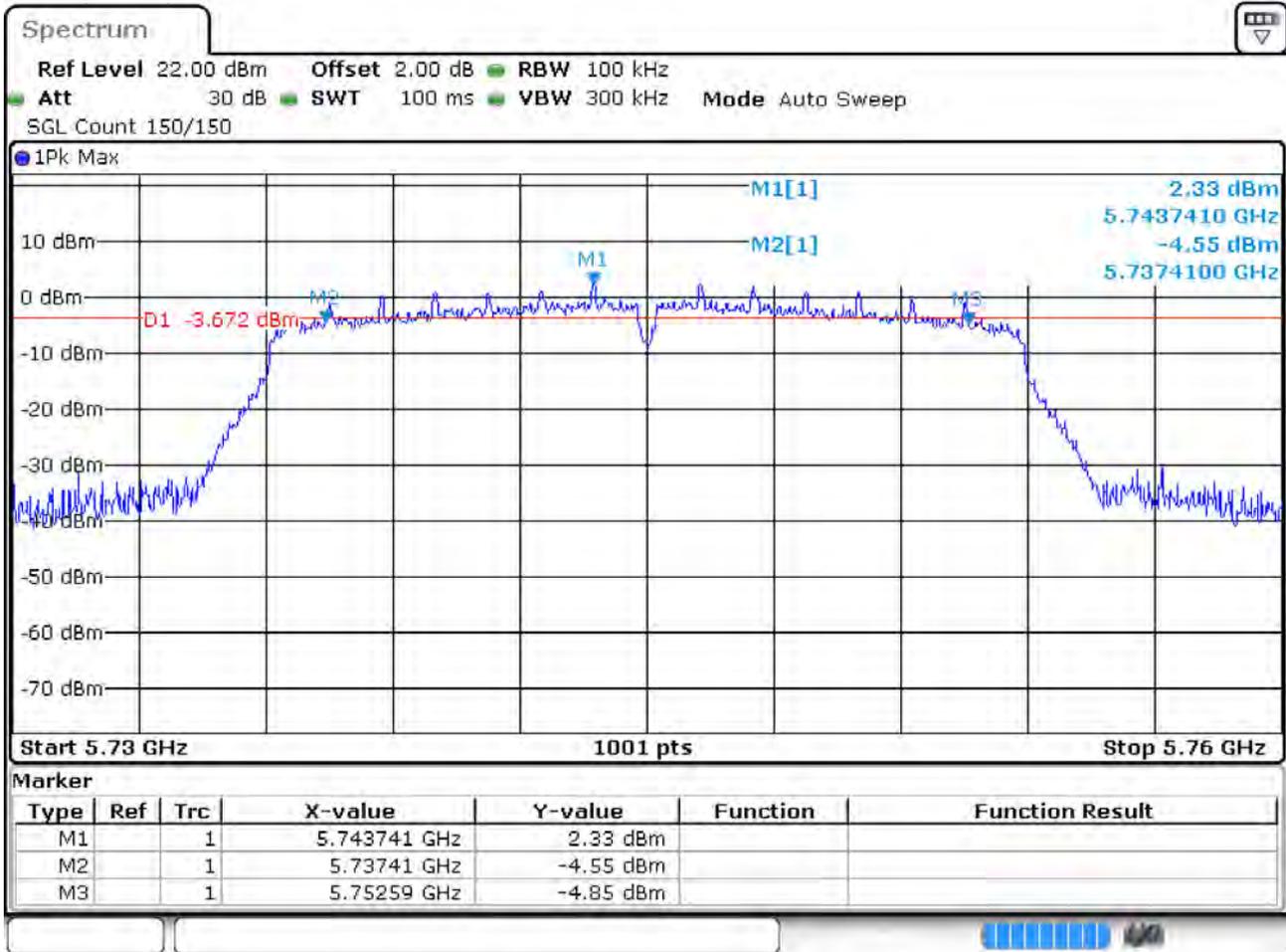


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4.6.2.8 11AC20_149 ANT 1



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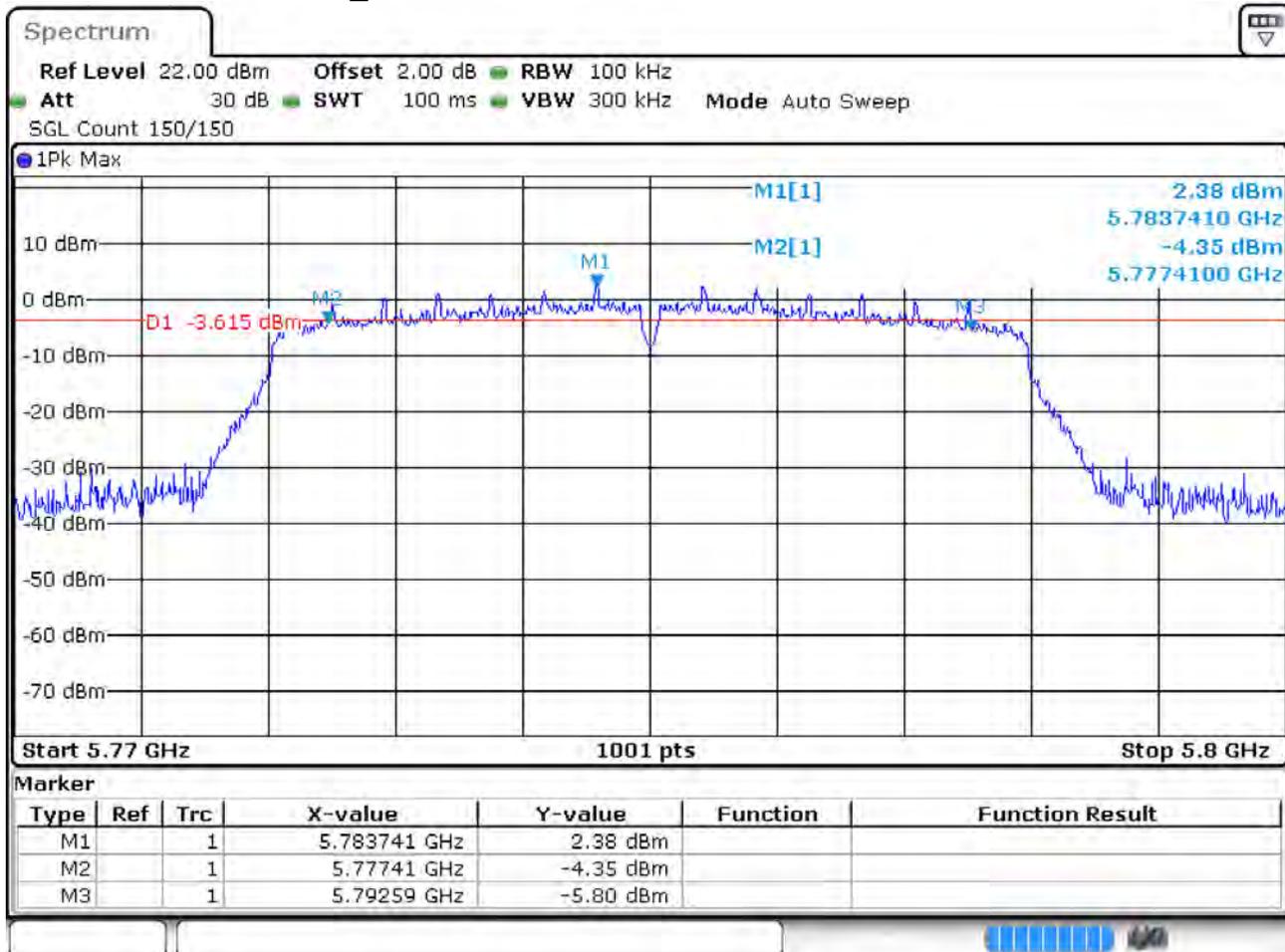


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4.6.2.9 11AC20_157 ANT 1



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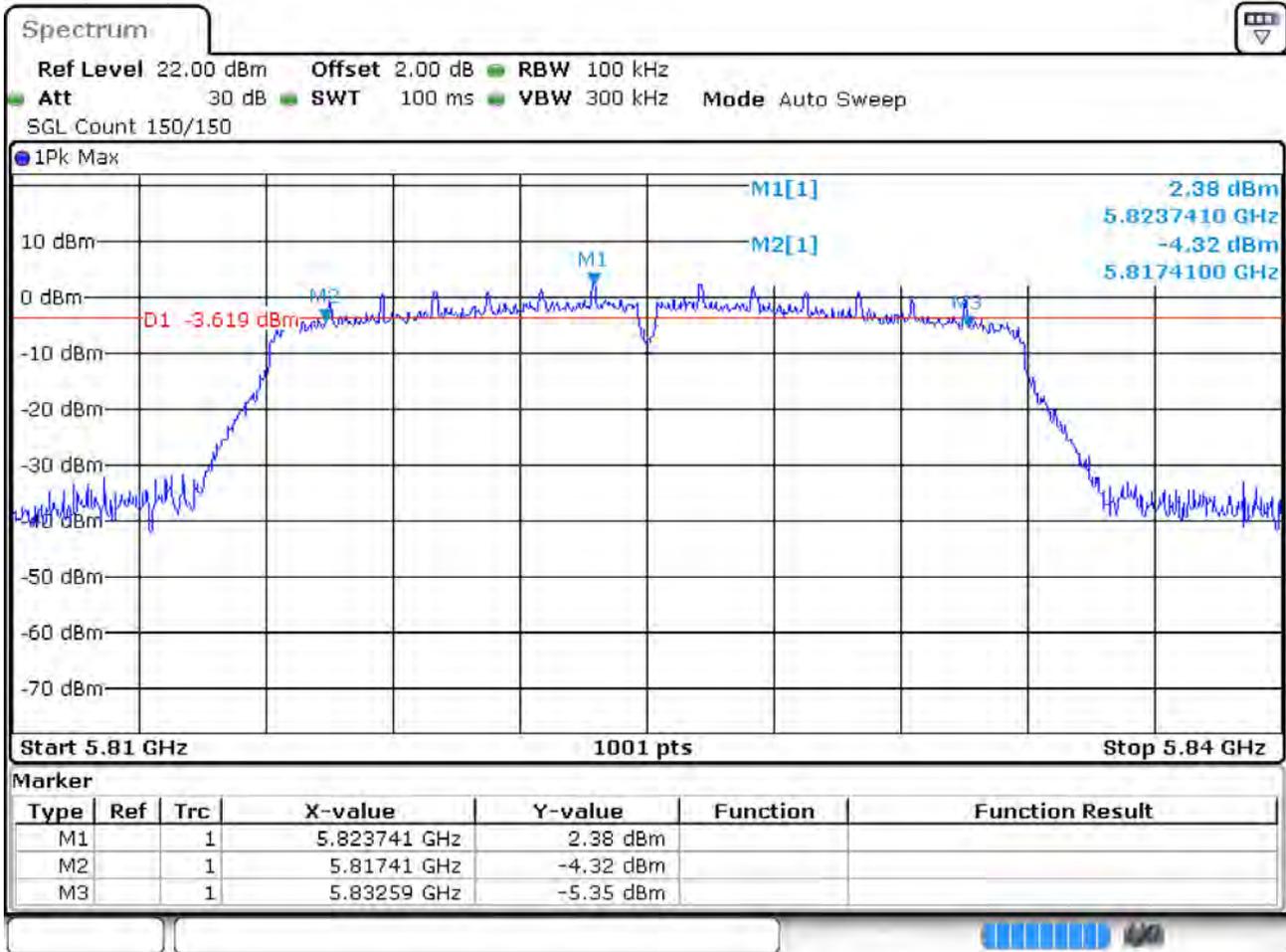


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4.6.2.10 11AC20_165 ANT 1



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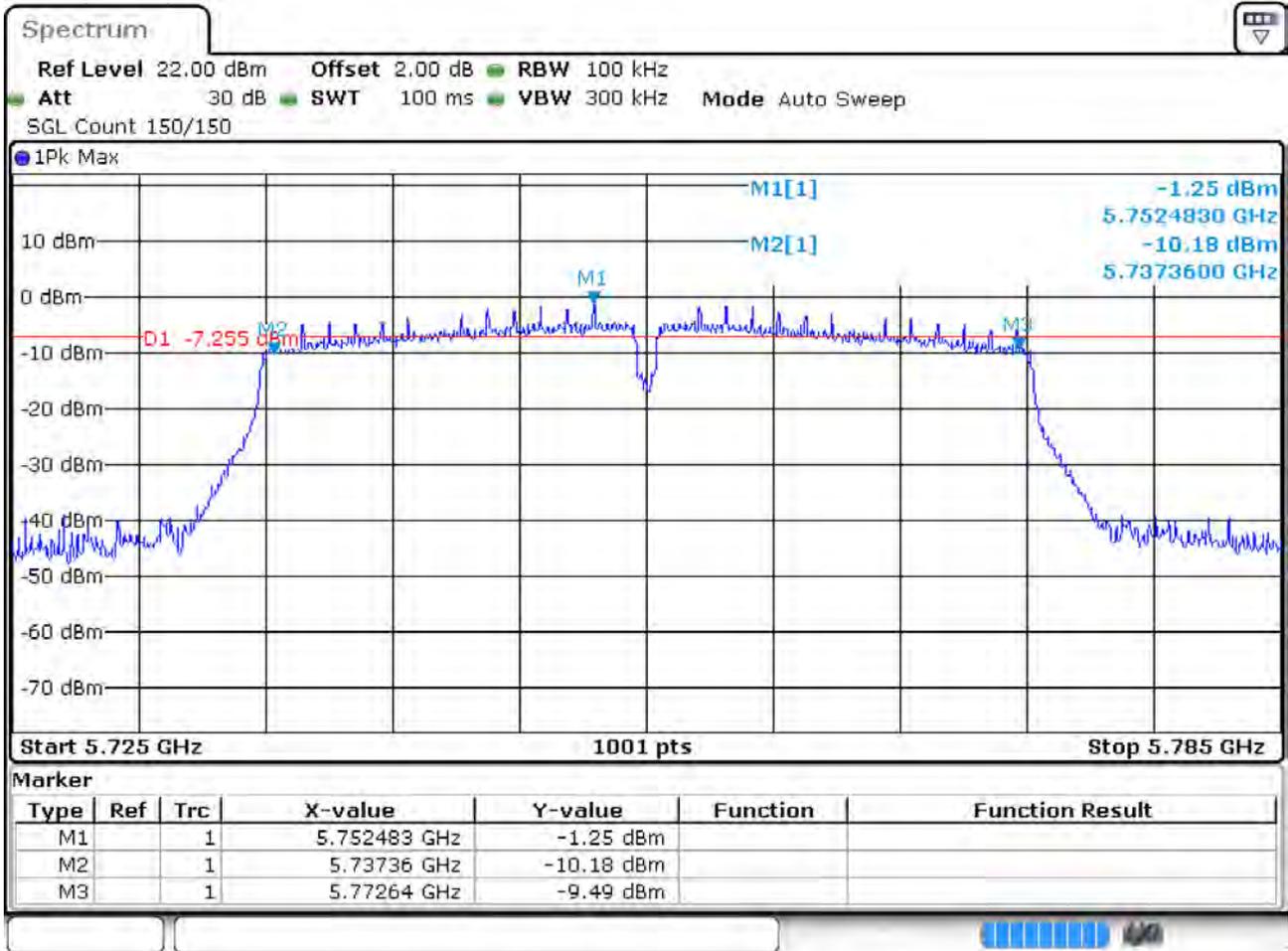


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4.6.2.11 11AC40_151 ANT 1



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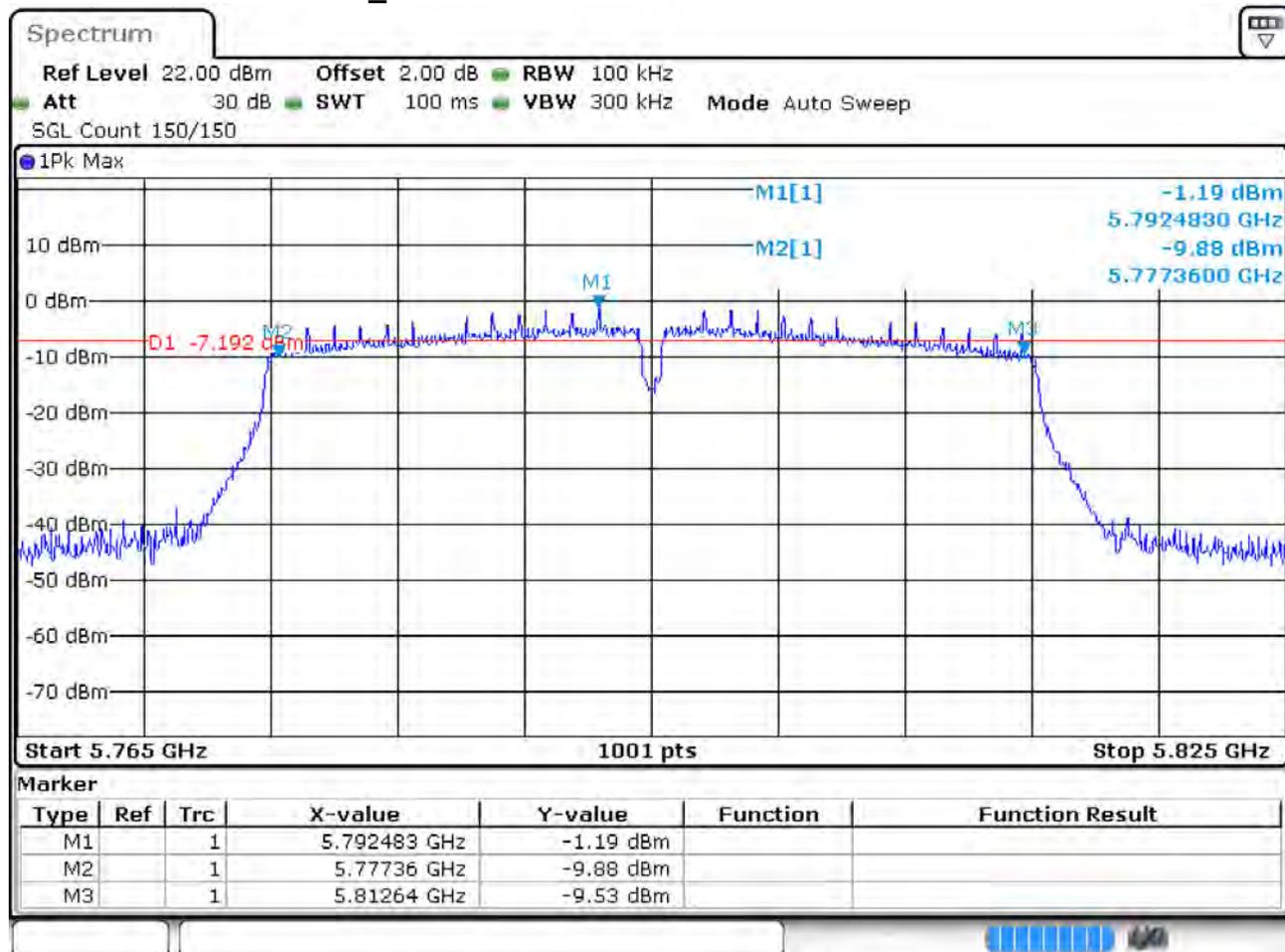


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4.6.2.12 11AC40_159 ANT 1



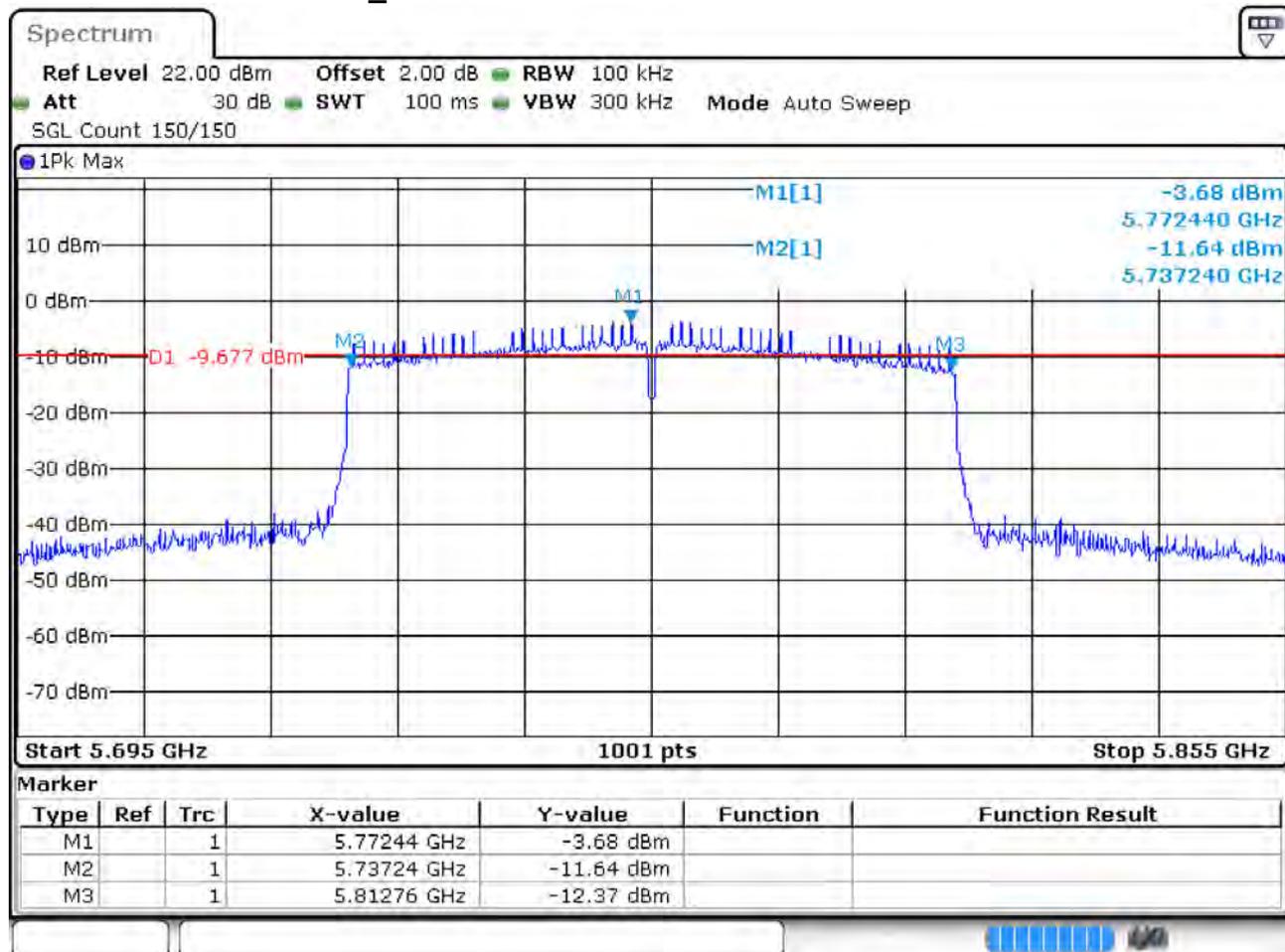
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4.6.2.13 11AC80_155 ANT 1



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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:	<p>Through Pre-scan, find the</p> <ul style="list-style-type: none"> 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). <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 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	16.8132	PASS
	44	5220	ANT 1	16.8432	PASS
	48	5240	ANT 1	16.8132	PASS
	52	5260	ANT 1	16.8432	PASS
	60	5300	ANT 1	16.8432	PASS
	64	5320	ANT 1	16.8432	PASS
	100	5500	ANT 1	16.8432	PASS
	116	5580	ANT 1	16.8731	PASS
	140	5700	ANT 1	16.8432	PASS
	149	5745	ANT 1	16.9331	PASS
	157	5785	ANT 1	16.9031	PASS
	165	5825	ANT 1	16.9031	PASS
11N20	36	5180	ANT 1	17.8322	PASS
	44	5220	ANT 1	17.8621	PASS
	48	5240	ANT 1	17.8621	PASS
	52	5260	ANT 1	17.8621	PASS
	60	5300	ANT 1	17.8322	PASS
	64	5320	ANT 1	17.8621	PASS
	100	5500	ANT 1	17.8921	PASS
	116	5580	ANT 1	17.8921	PASS
	140	5700	ANT 1	17.9221	PASS
	149	5745	ANT 1	17.9221	PASS
	157	5785	ANT 1	17.9221	PASS
	165	5825	ANT 1	17.8921	PASS
11N40	38	5190	ANT 1	36.2038	PASS
	46	5230	ANT 1	36.2038	PASS
	54	5270	ANT 1	36.2038	PASS
	62	5310	ANT 1	36.2038	PASS
	102	5510	ANT 1	36.1439	PASS
	110	5550	ANT 1	36.2038	PASS
	134	5670	ANT 1	36.2038	PASS
	151	5755	ANT 1	36.2637	PASS
	159	5795	ANT 1	36.2637	PASS
11AC20	36	5180	ANT 1	17.7722	PASS
	44	5220	ANT 1	17.7722	PASS
	48	5240	ANT 1	17.7423	PASS



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Report No.: ZR/2020/7000607-01

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	52	5260	ANT 1	17.7423	PASS
	60	5300	ANT 1	17.7423	PASS
	64	5320	ANT 1	17.7423	PASS
	100	5500	ANT 1	17.7423	PASS
	116	5580	ANT 1	17.7722	PASS
	140	5700	ANT 1	17.7423	PASS
	149	5745	ANT 1	17.7722	PASS
	157	5785	ANT 1	17.7722	PASS
	165	5825	ANT 1	17.7722	PASS
11AC40	38	5190	ANT 1	36.2637	PASS
	46	5230	ANT 1	36.1439	PASS
	54	5270	ANT 1	36.0839	PASS
	62	5310	ANT 1	36.2038	PASS
	102	5510	ANT 1	36.2038	PASS
	110	5550	ANT 1	36.2038	PASS
	134	5670	ANT 1	36.2038	PASS
	151	5755	ANT 1	36.1439	PASS
	159	5795	ANT 1	36.1439	PASS
11AC80	42	5210	ANT 1	75.2847	PASS
	58	5290	ANT 1	75.2847	PASS
	106	5530	ANT 1	75.4046	PASS
	122	5610	ANT 1	75.1648	PASS
	138	5690	ANT 1	75.2847	PASS
	155	5775	ANT 1	75.1648	PASS



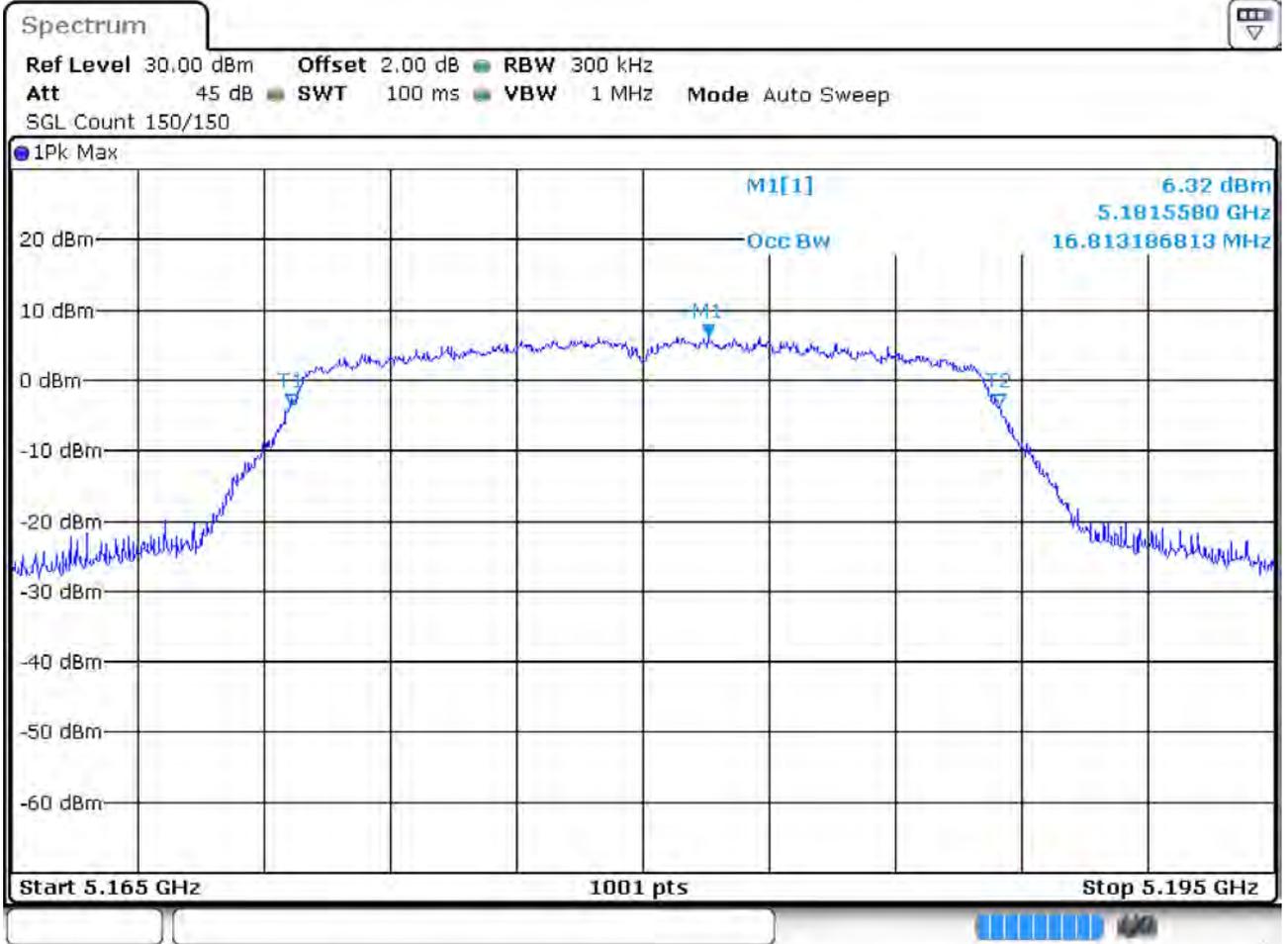
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4.7.2 Plots for 99% Occupied Bandwidth

4.7.2.1 11A20_36 ANT 1



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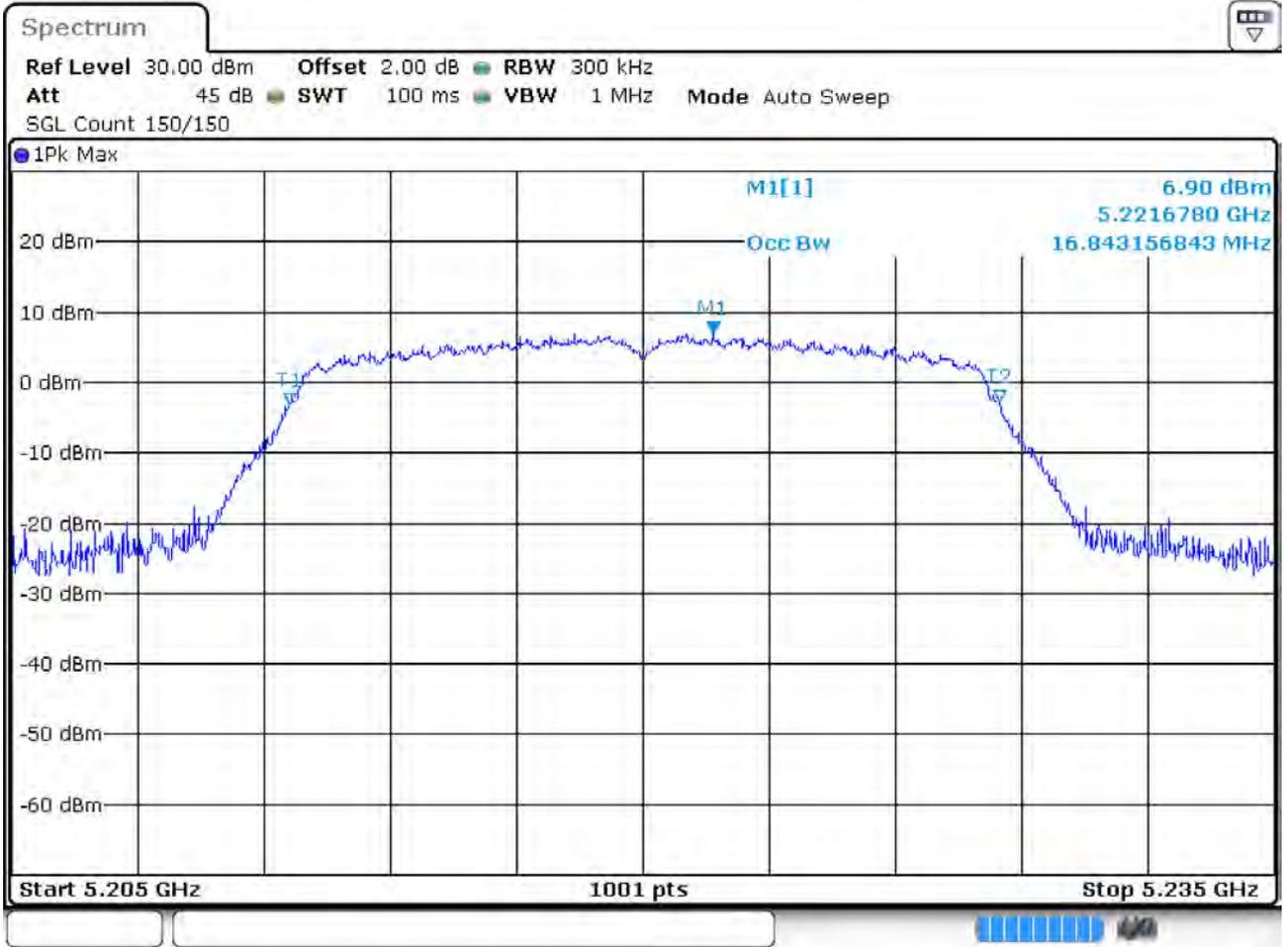


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4.7.2.2 11A20_44 ANT 1



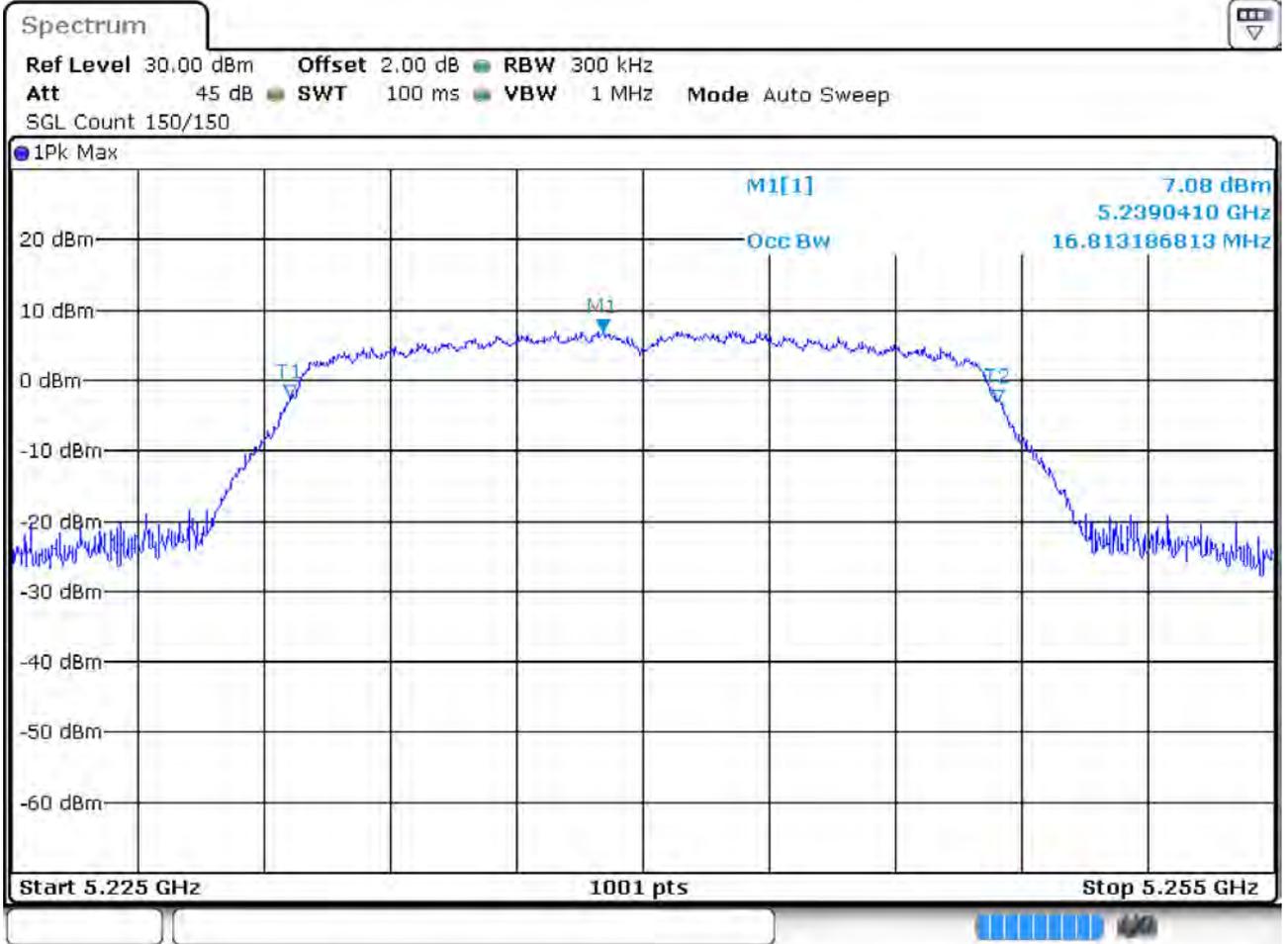
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4.7.2.3 11A20_48 ANT 1



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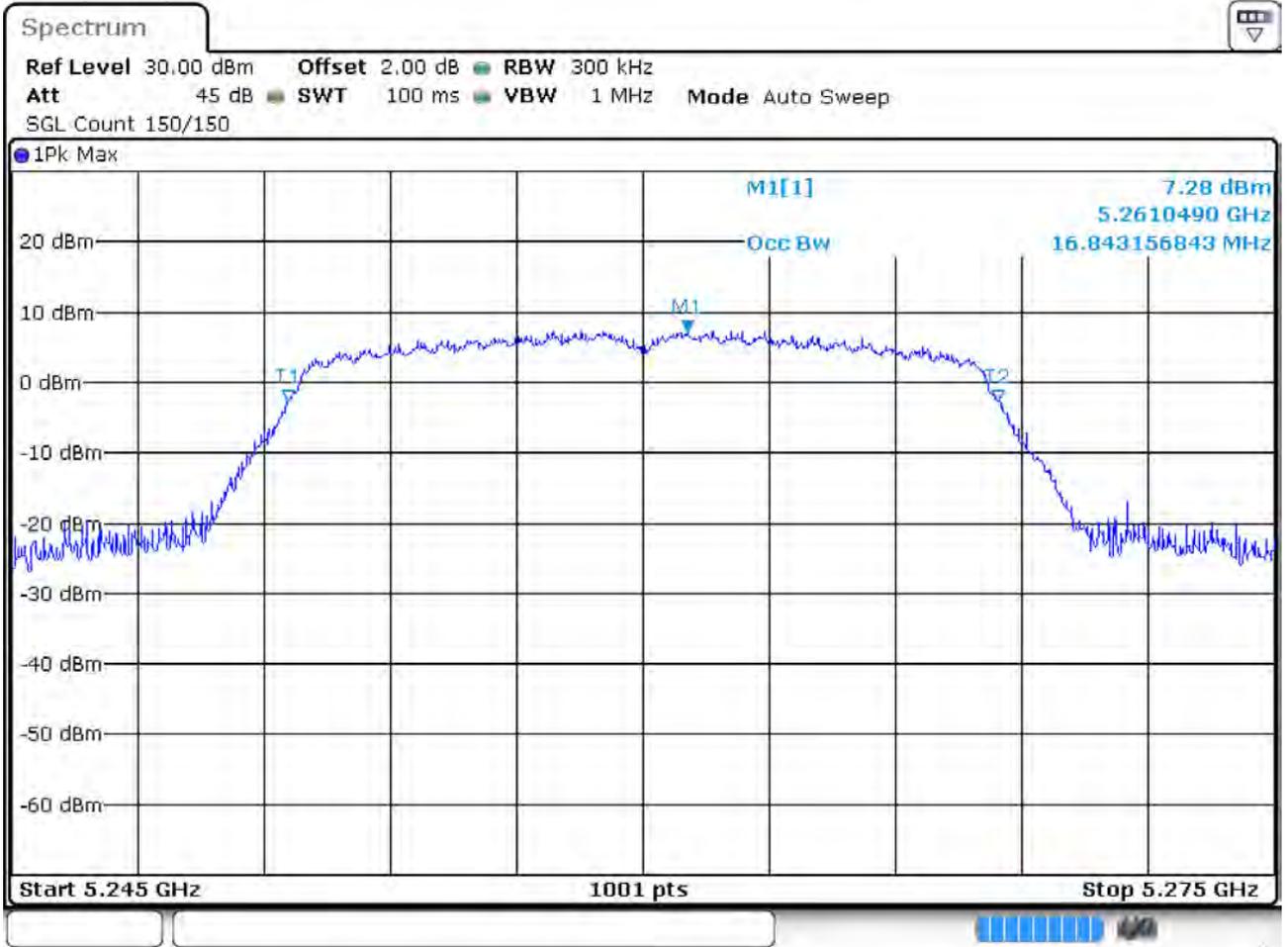


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4.7.2.4 11A20_52 ANT 1



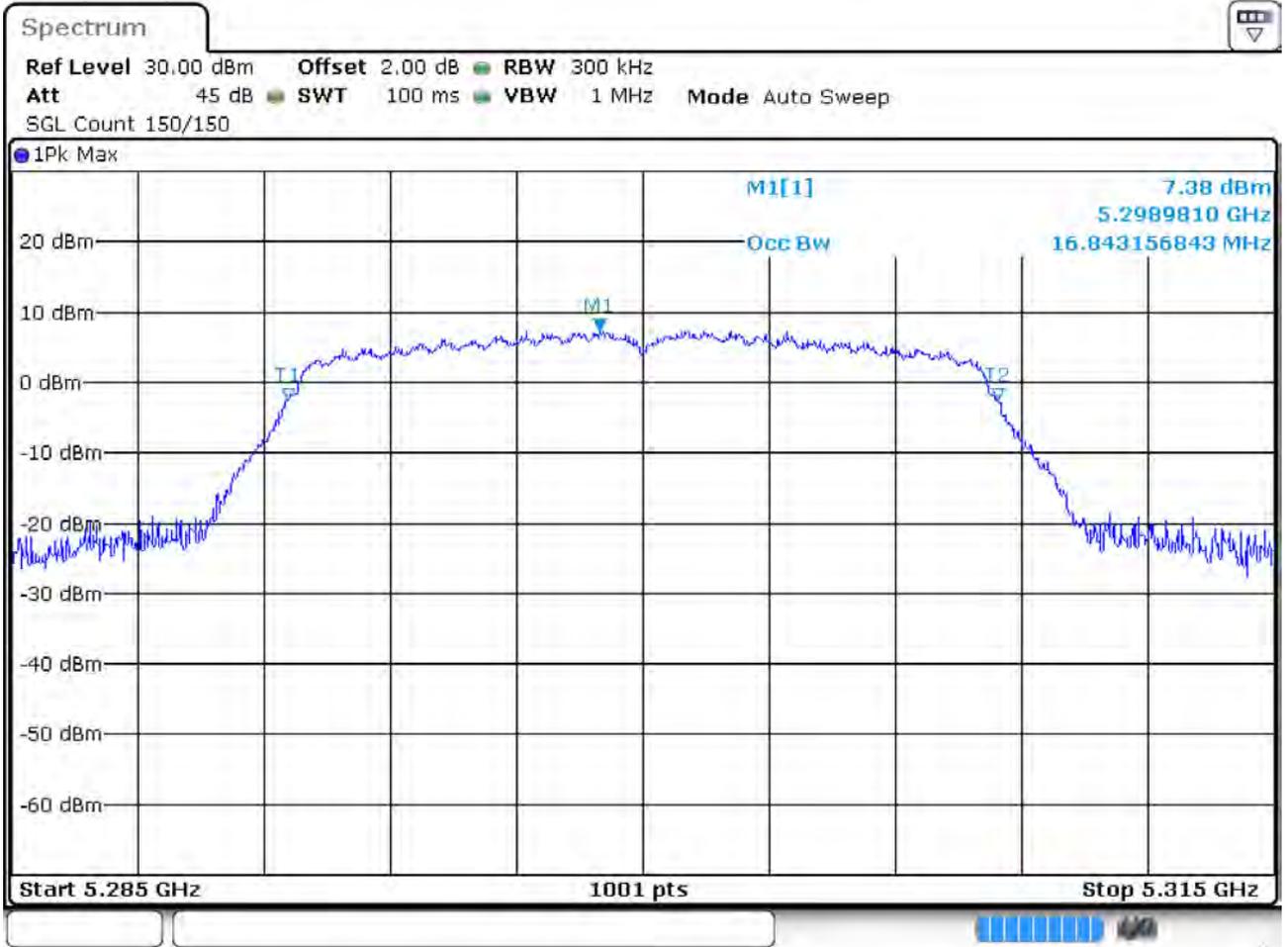
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4.7.2.5 11A20_60 ANT 1



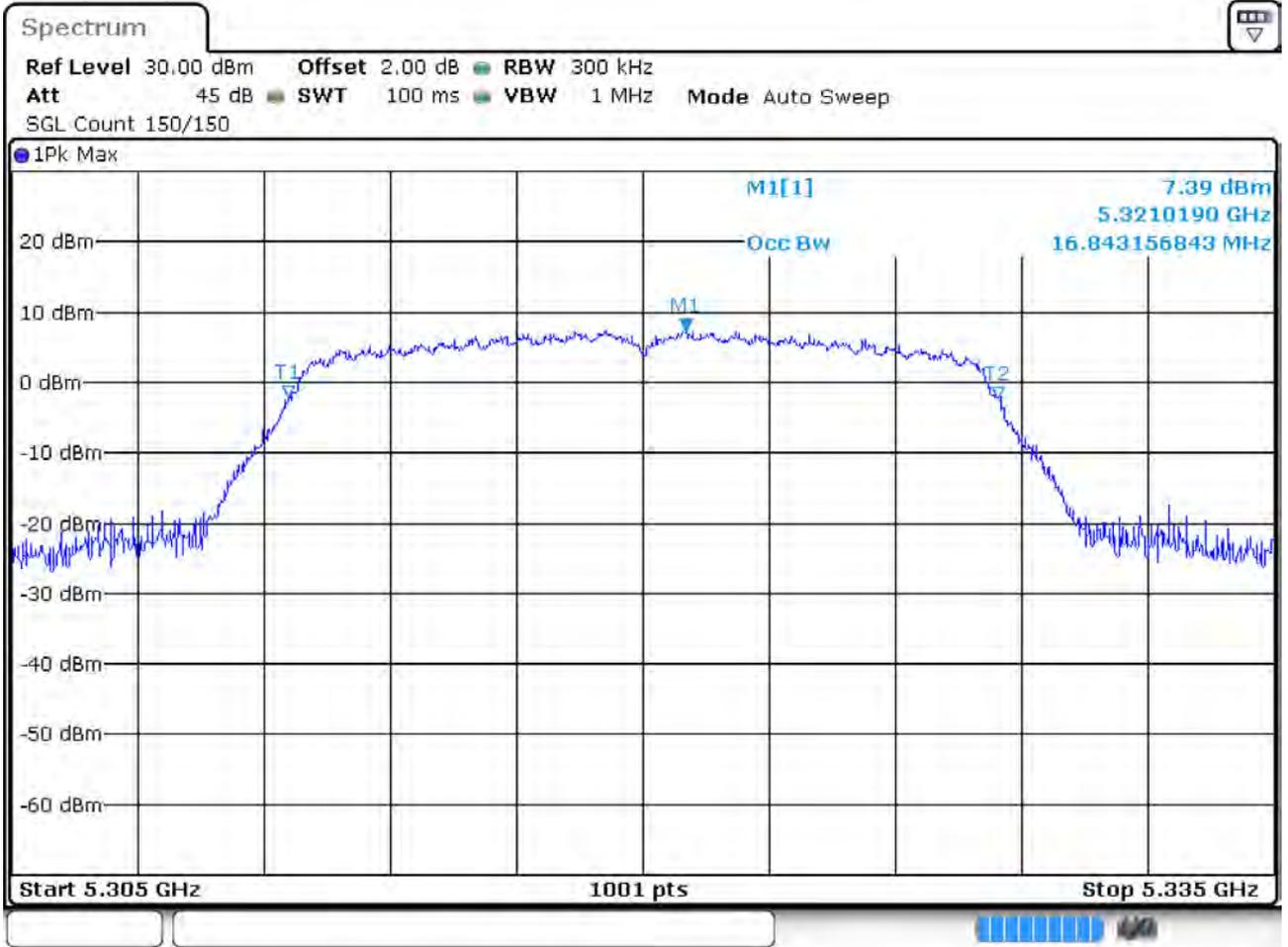
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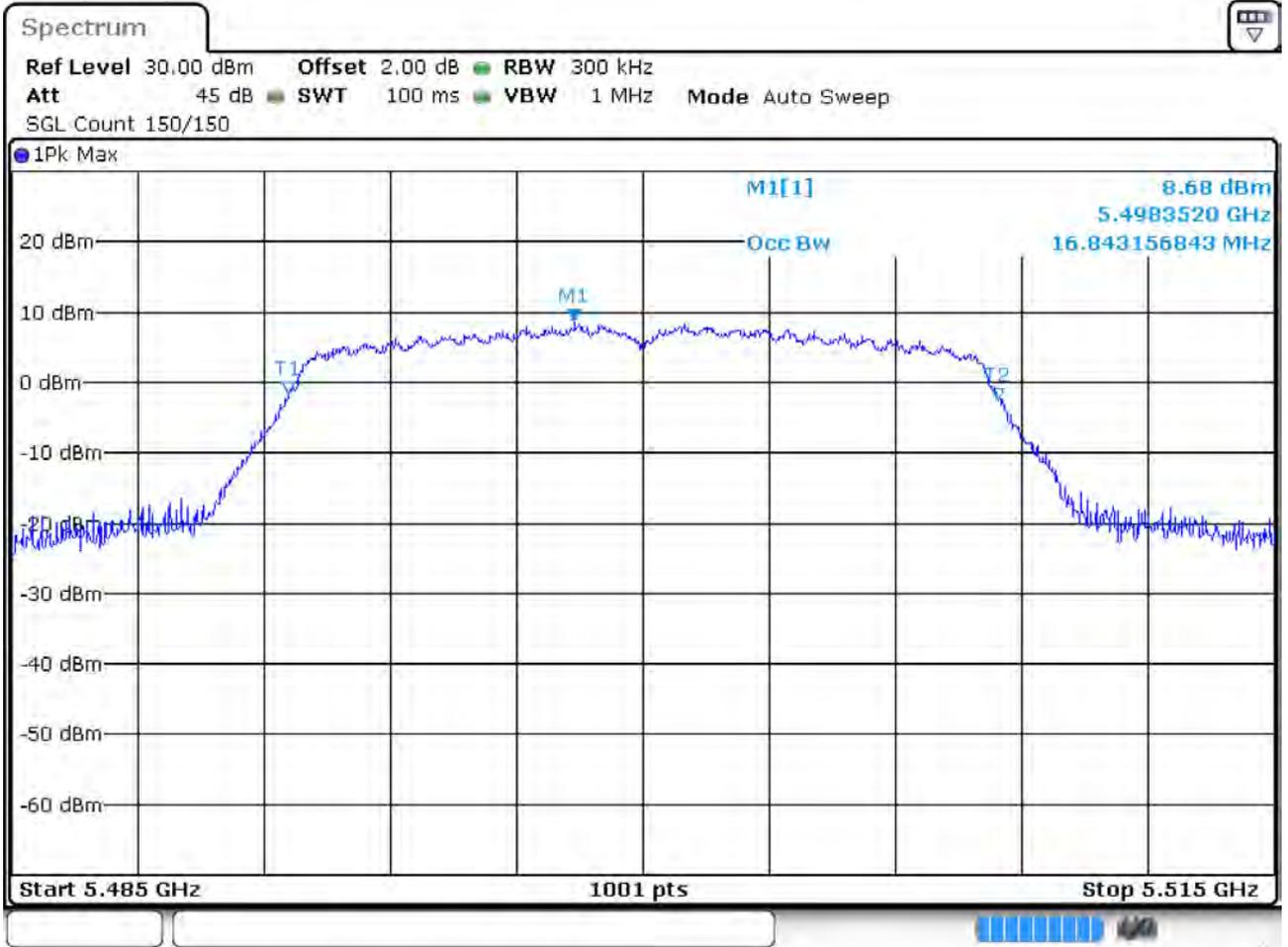


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4.7.2.7 11A20_100 ANT 1



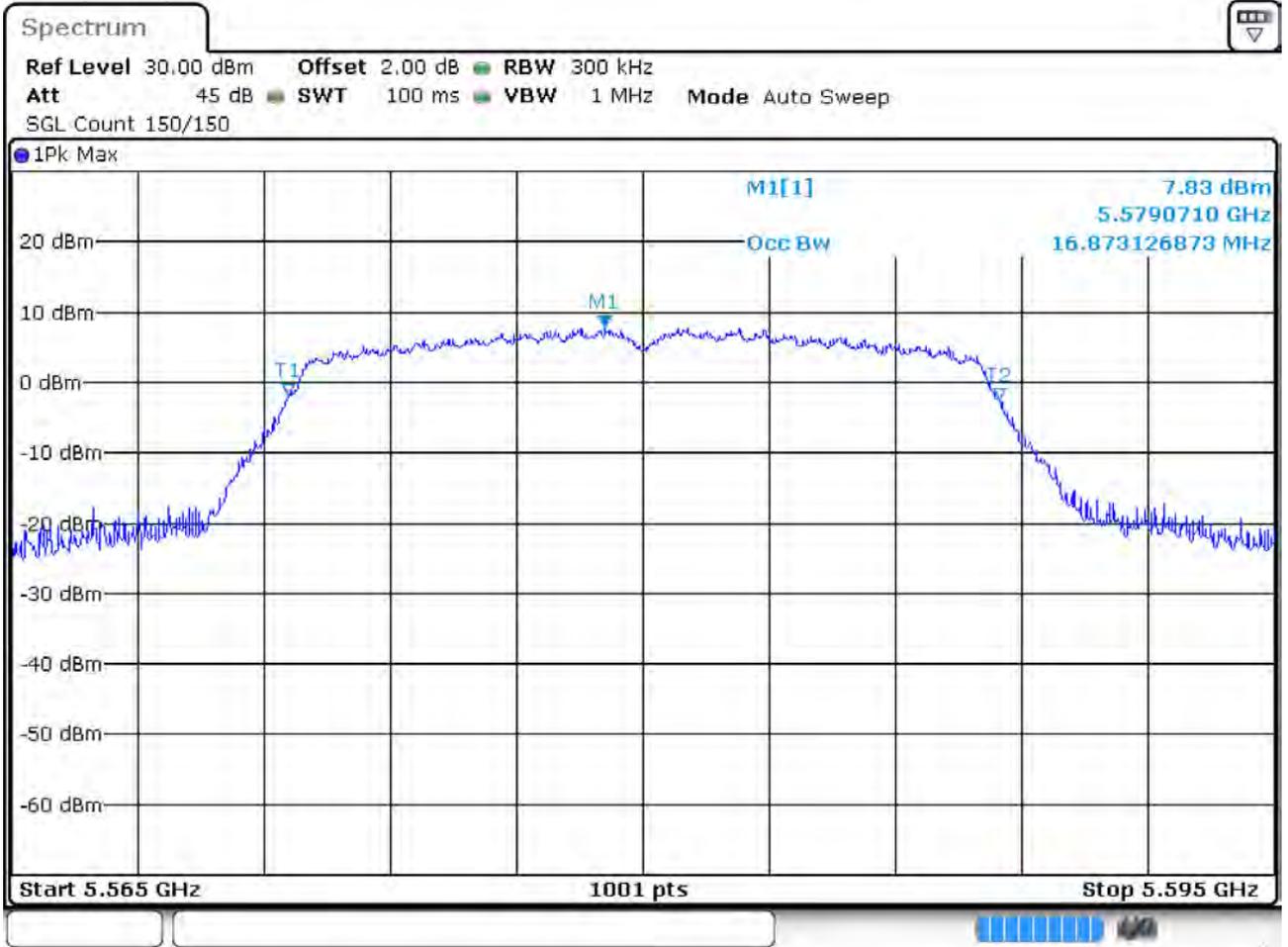
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4.7.2.8 11A20_116 ANT 1



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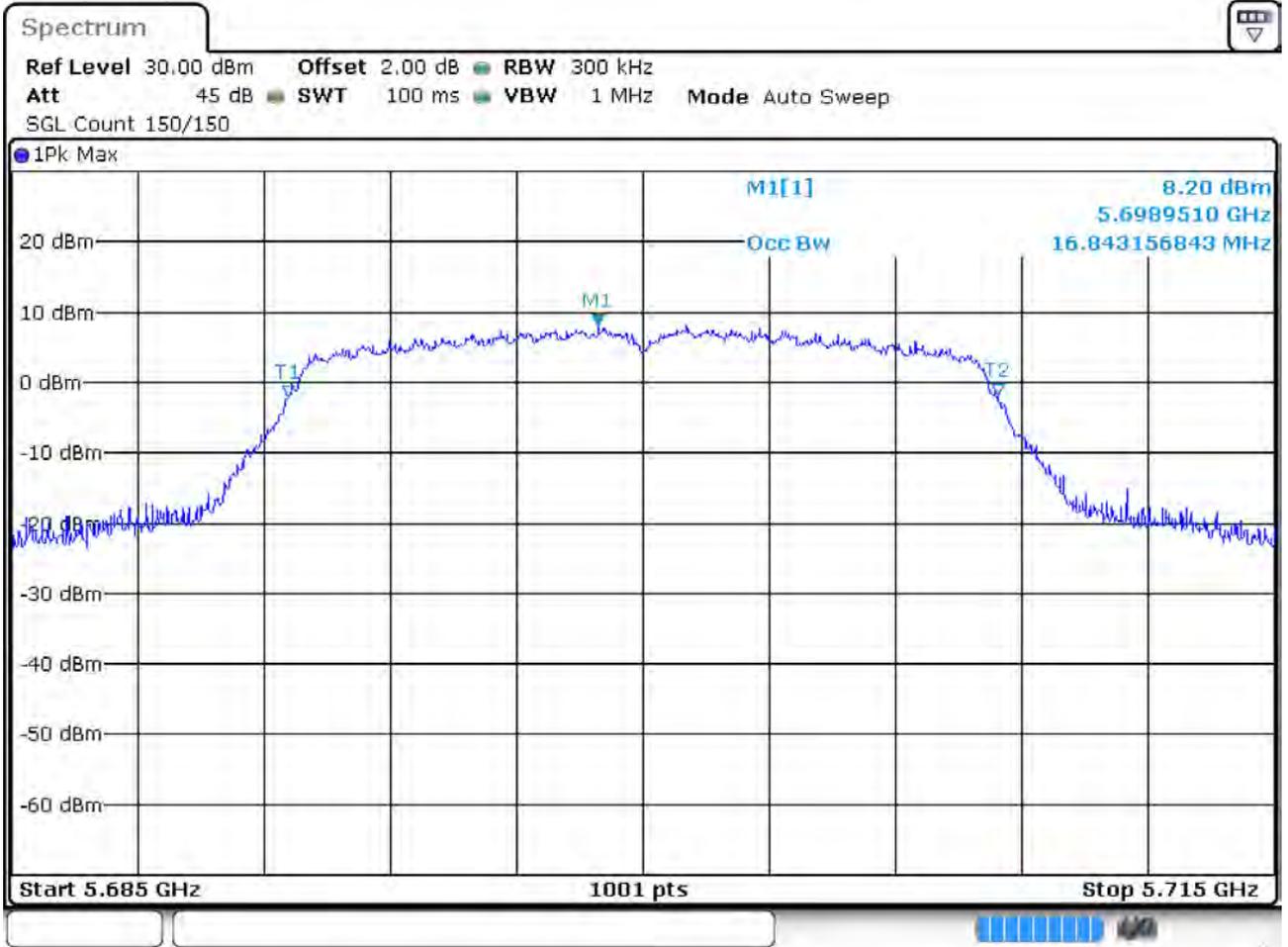
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4.7.2.9 11A20_140 ANT 1



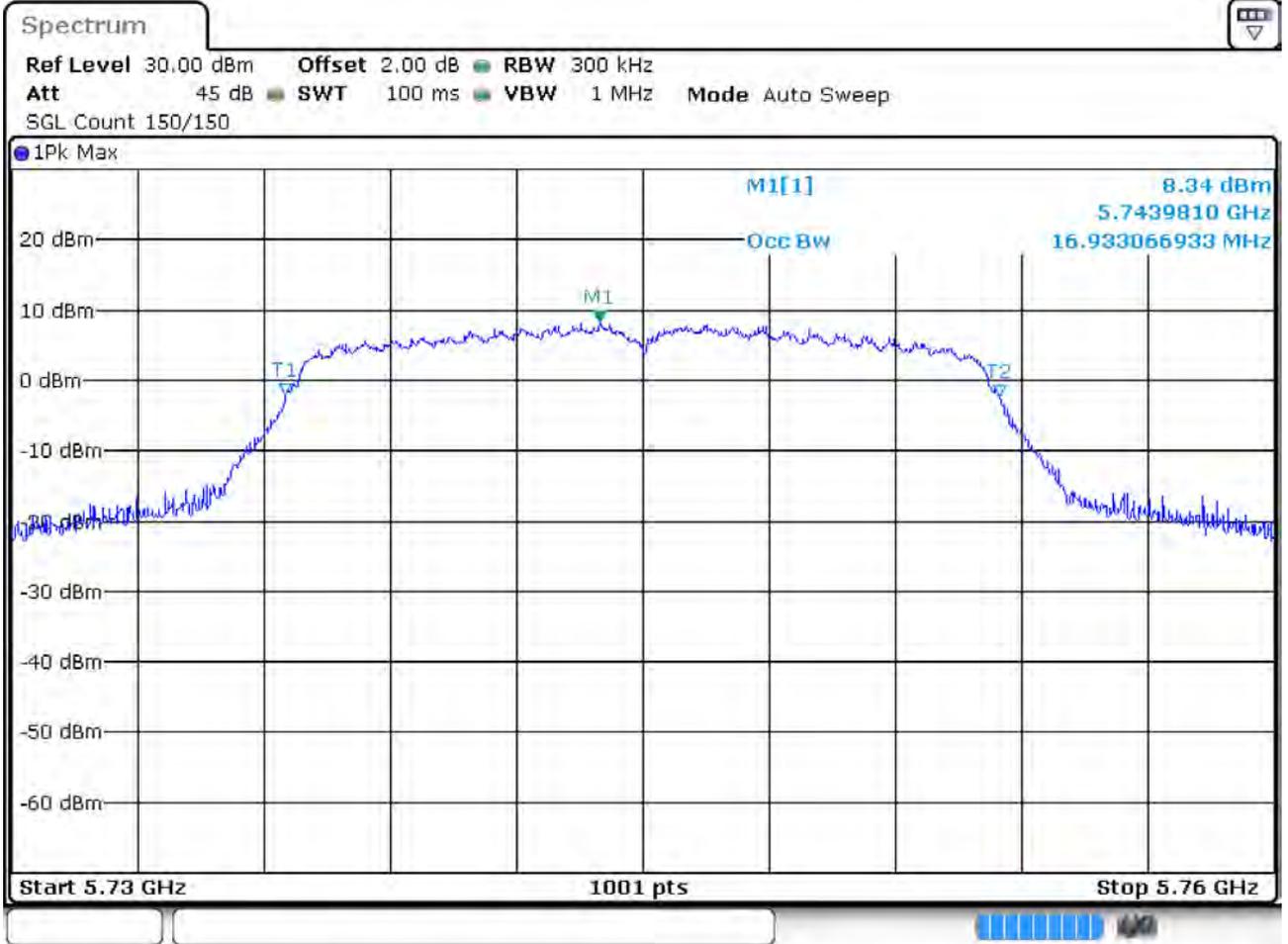
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4.7.2.10 11A20_149 ANT 1



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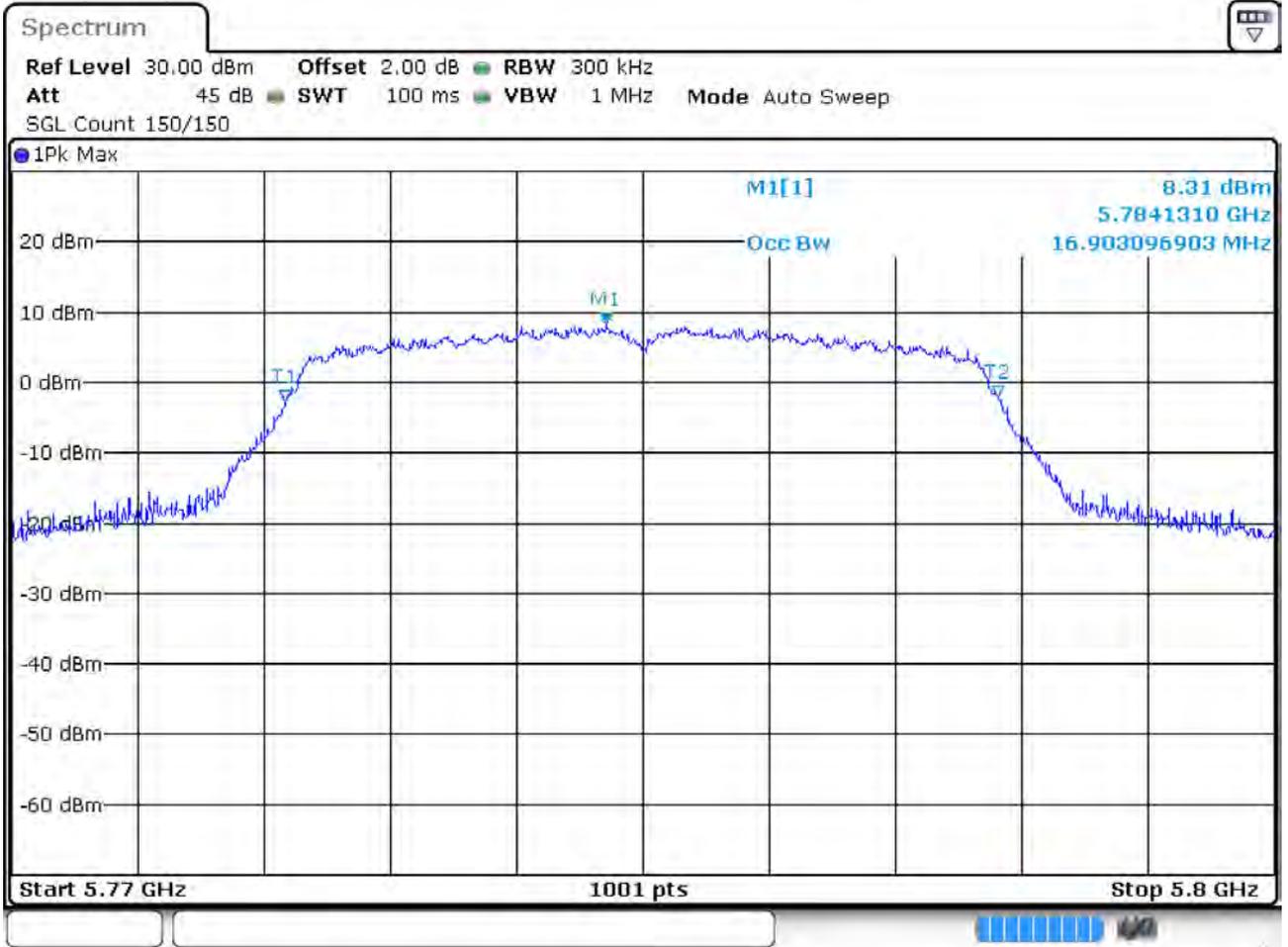


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4.7.2.11 11A20_157 ANT 1



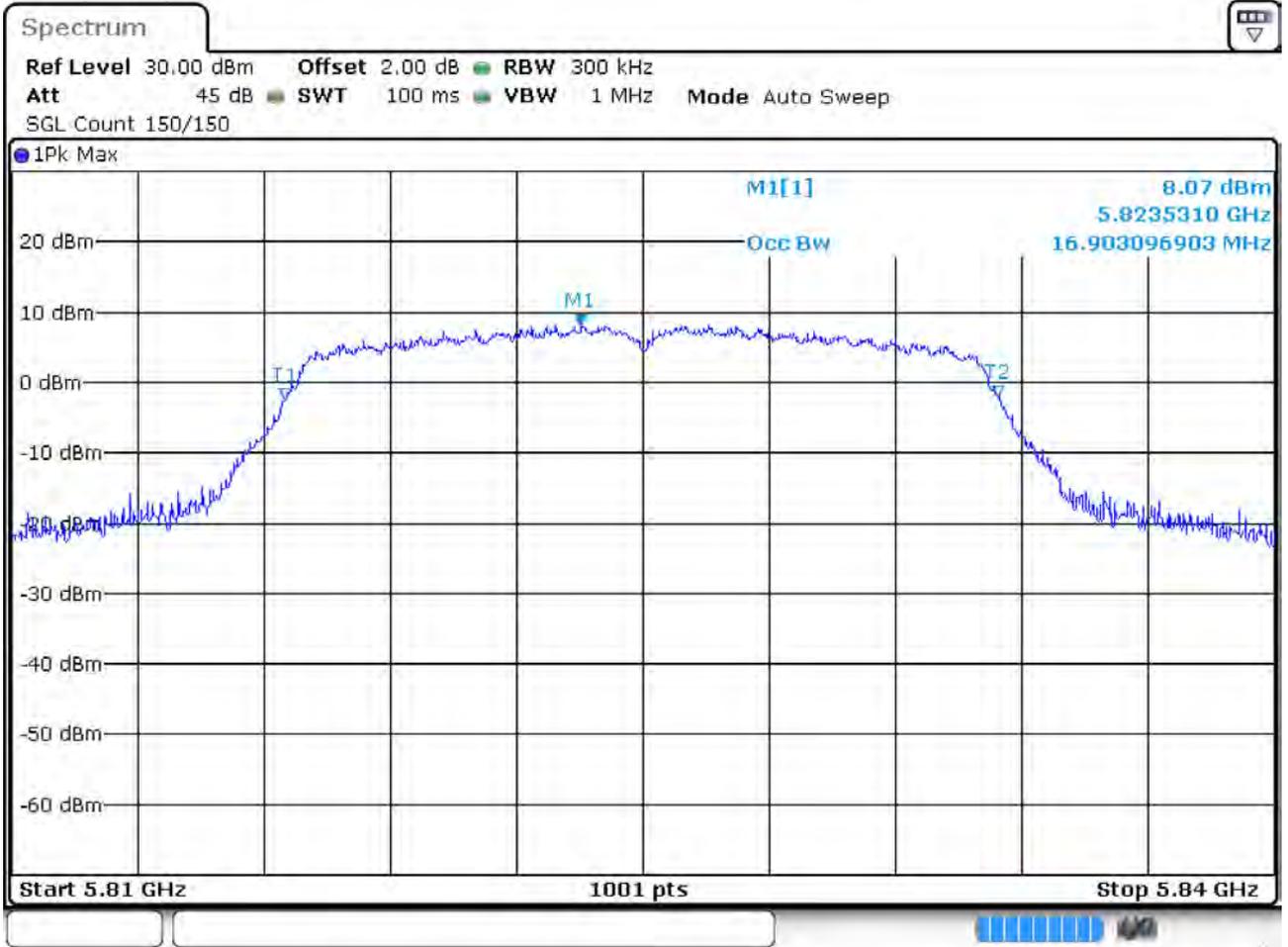
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4.7.2.12 11A20_165 ANT 1



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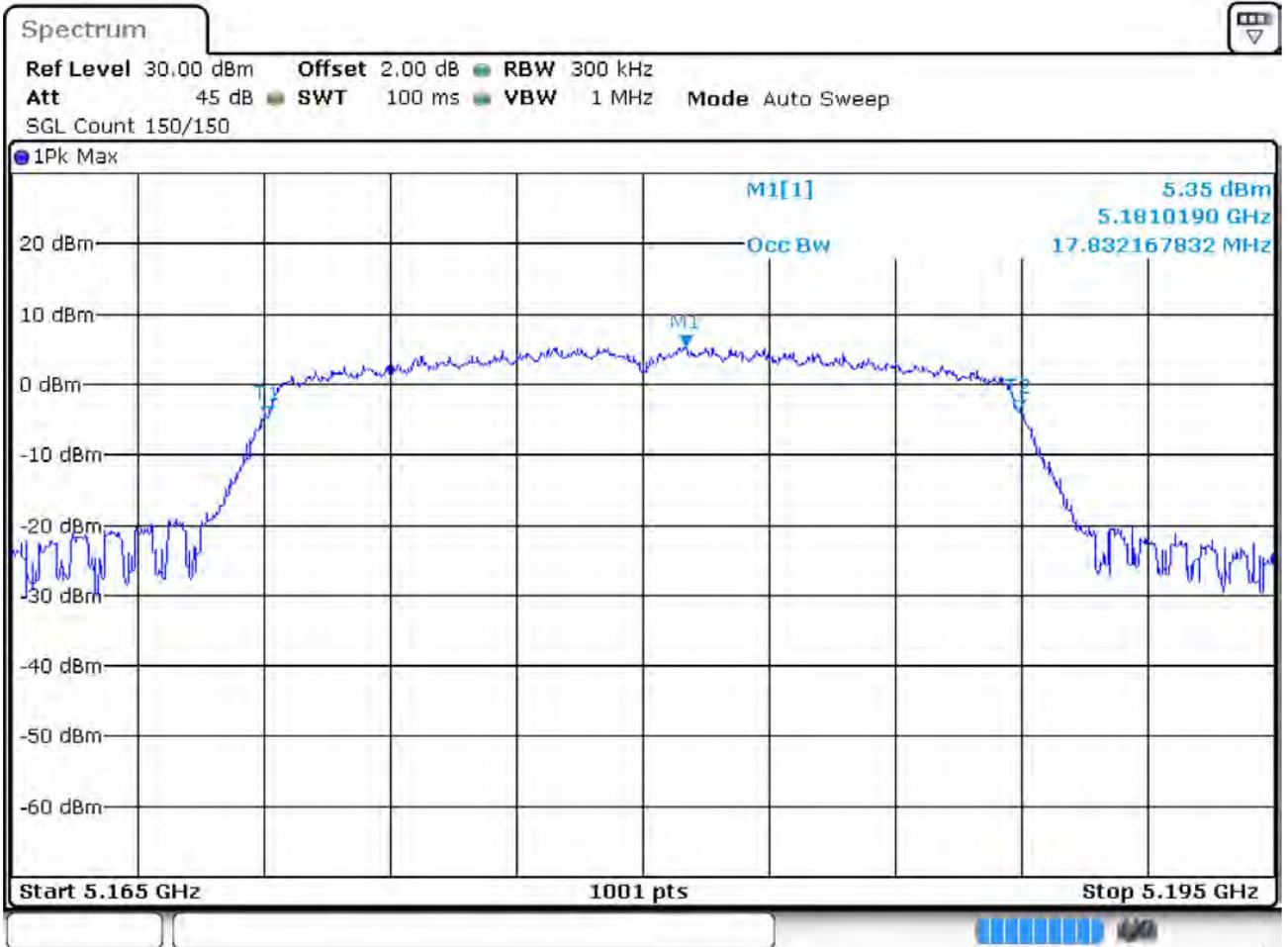


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4.7.2.13 11N20_36 ANT 1



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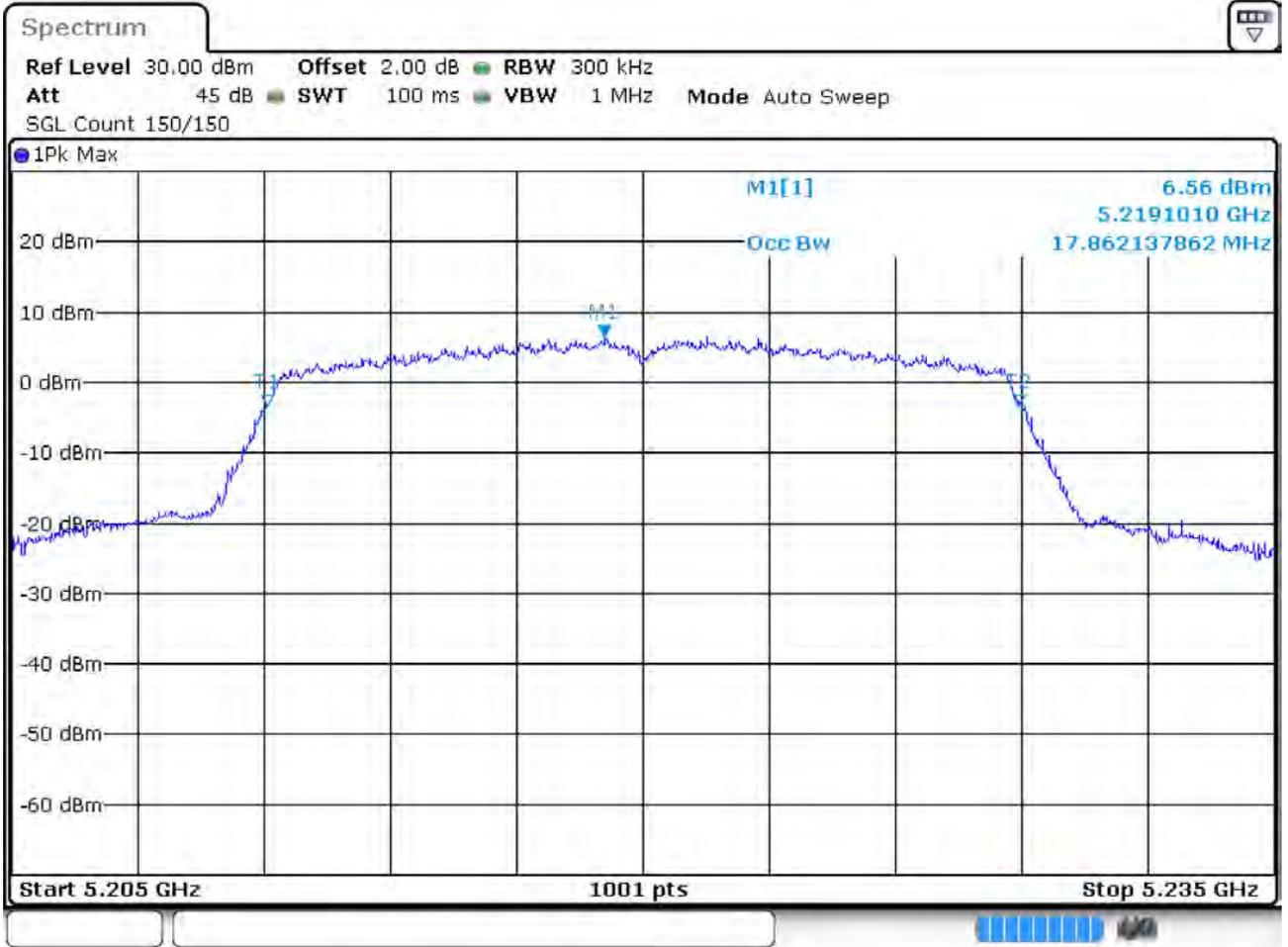


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4.7.2.14 11N20_44 ANT 1



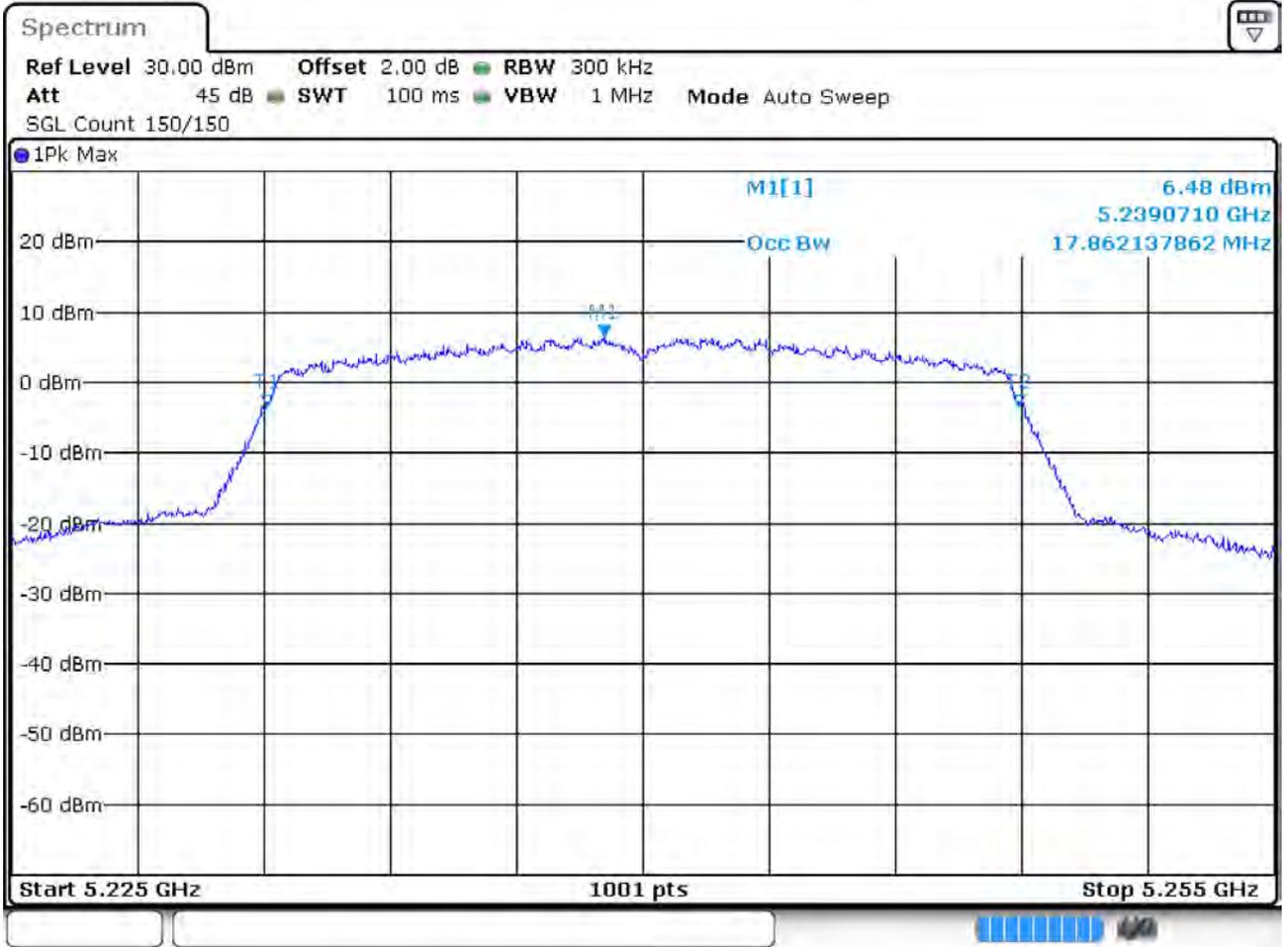
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4.7.2.15 11N20_48 ANT 1



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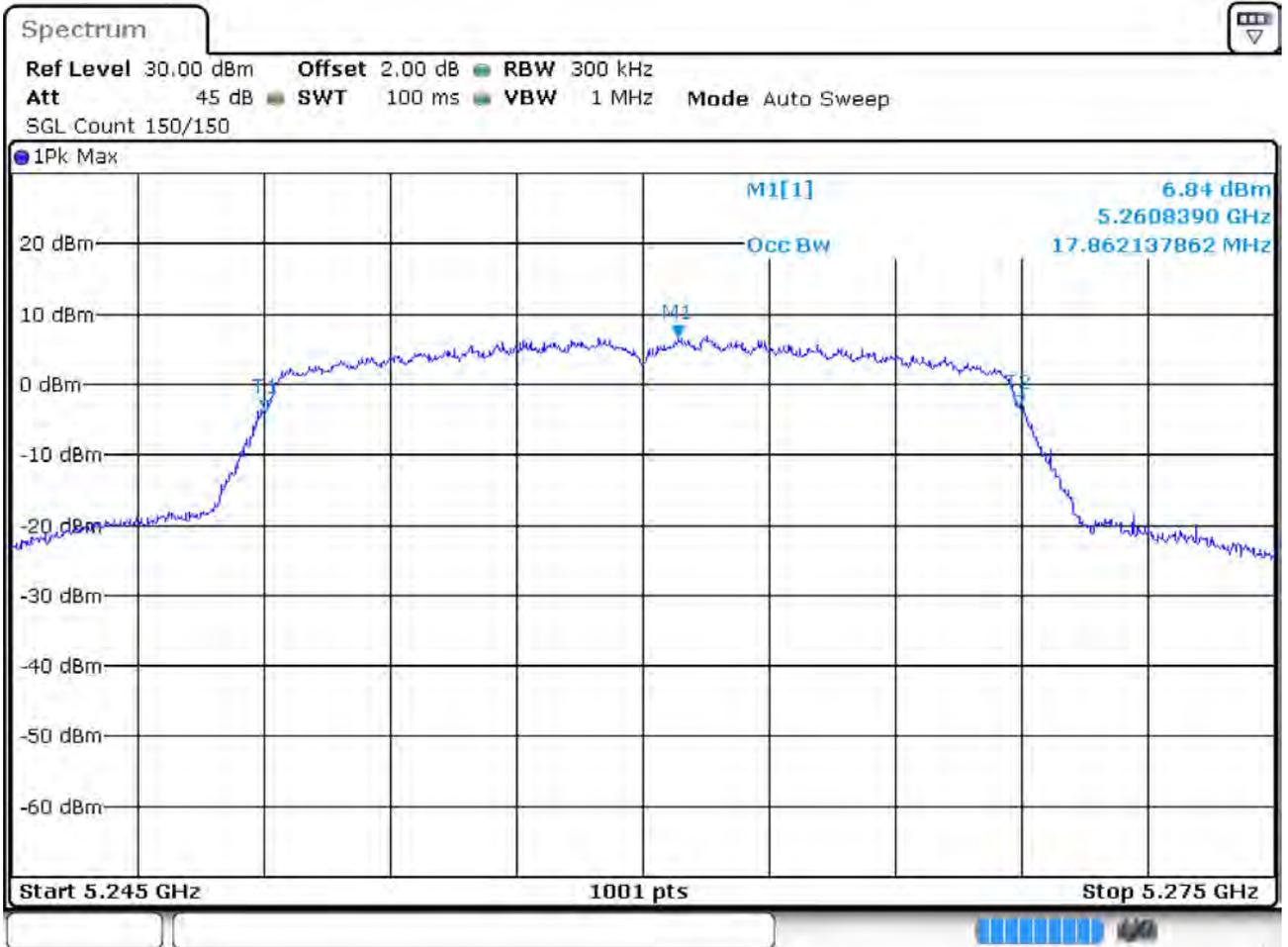


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4.7.2.16 11N20_52 ANT 1



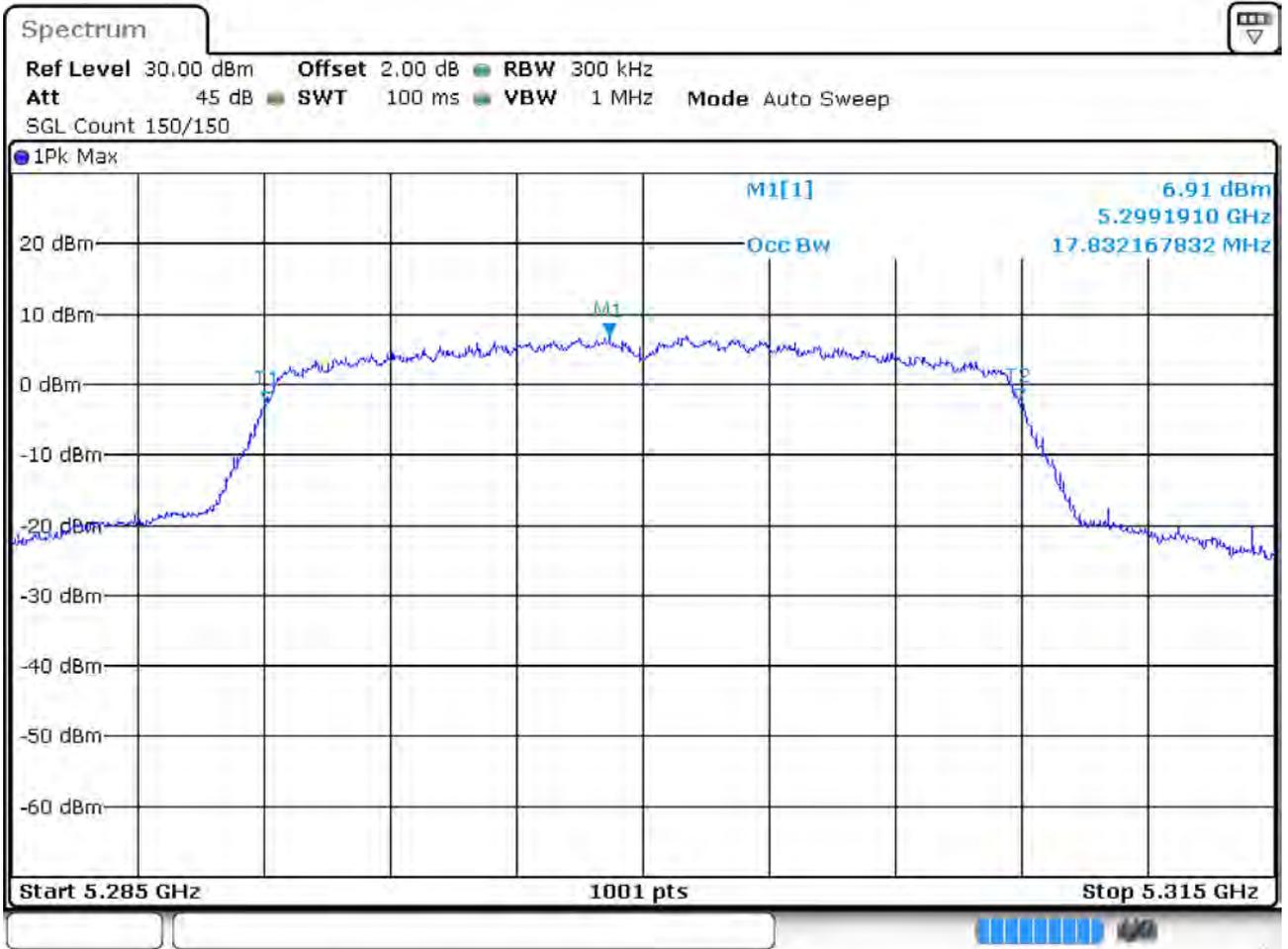
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4.7.2.17 11N20_60 ANT 1



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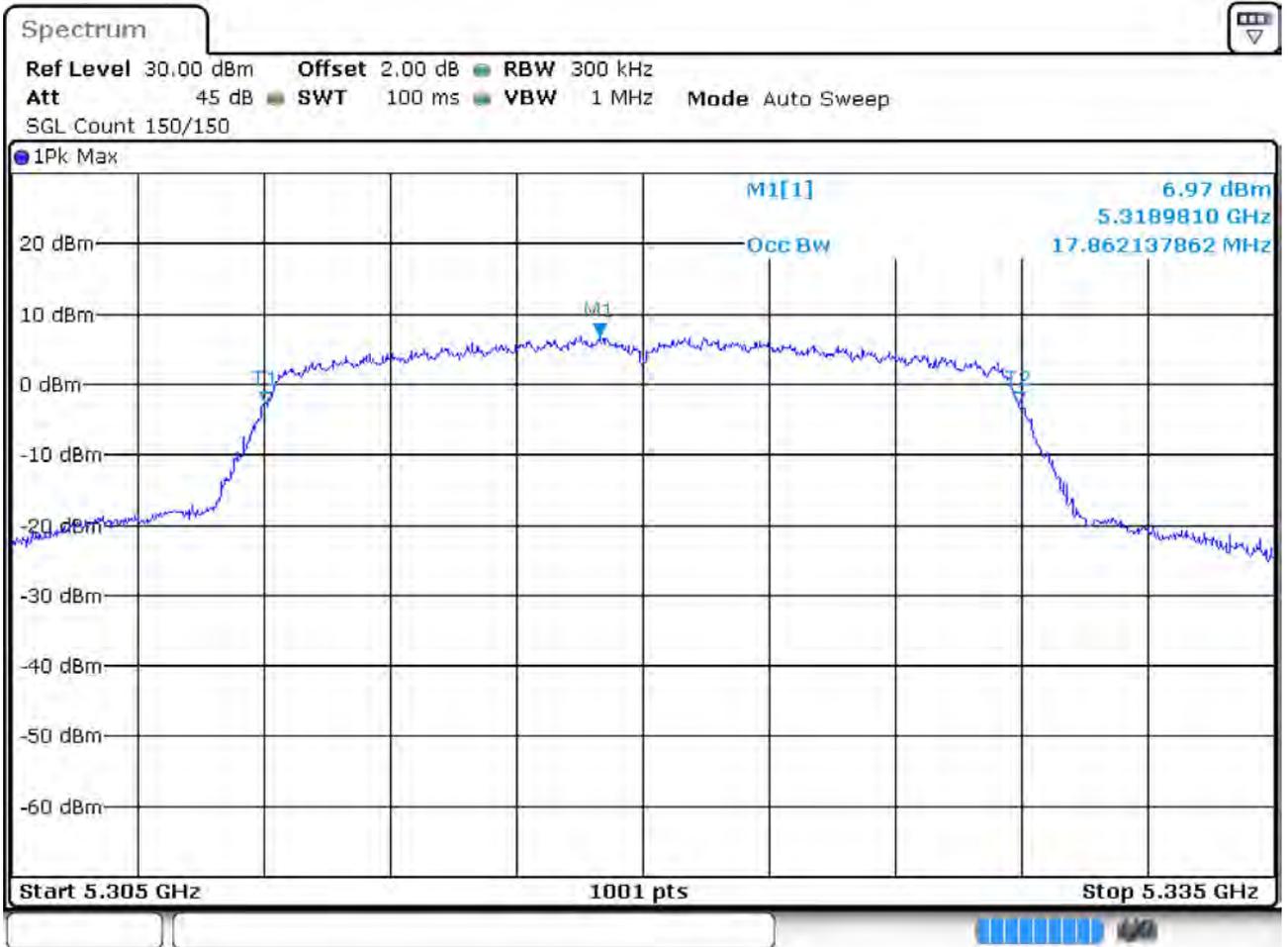


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4.7.2.18 11N20_64 ANT 1



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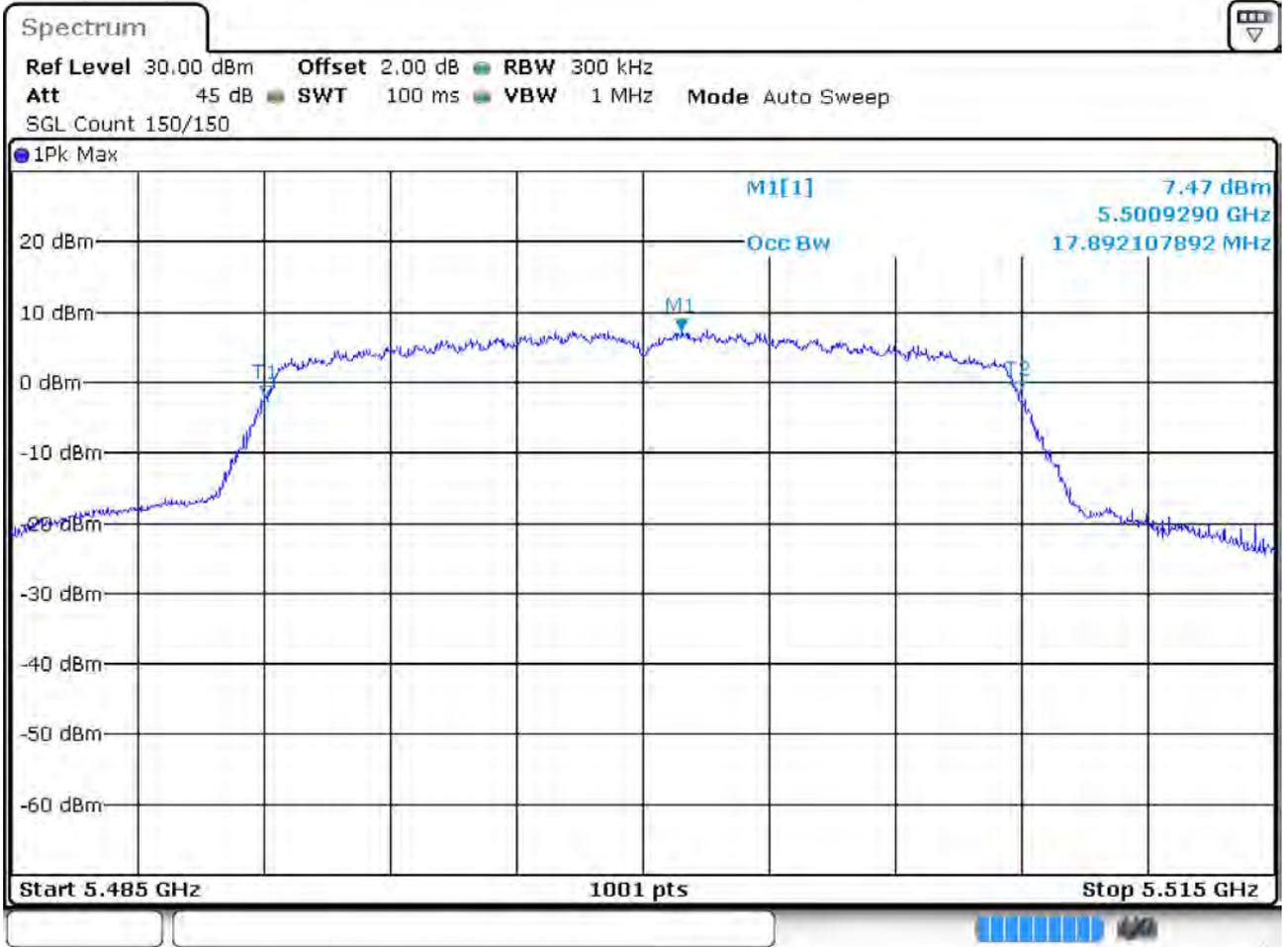


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4.7.2.19 11N20_100 ANT 1



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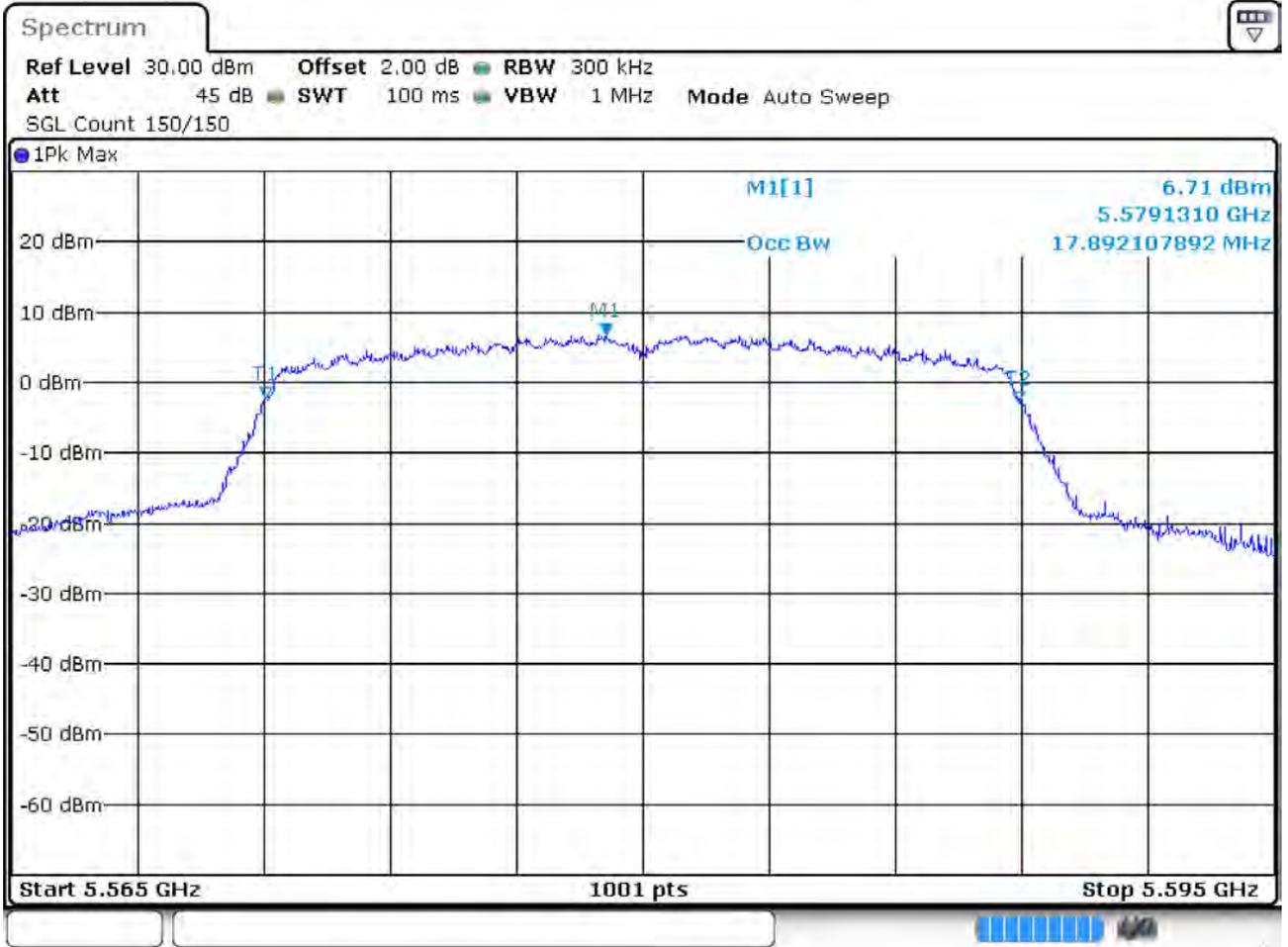


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4.7.2.20 11N20_116 ANT 1



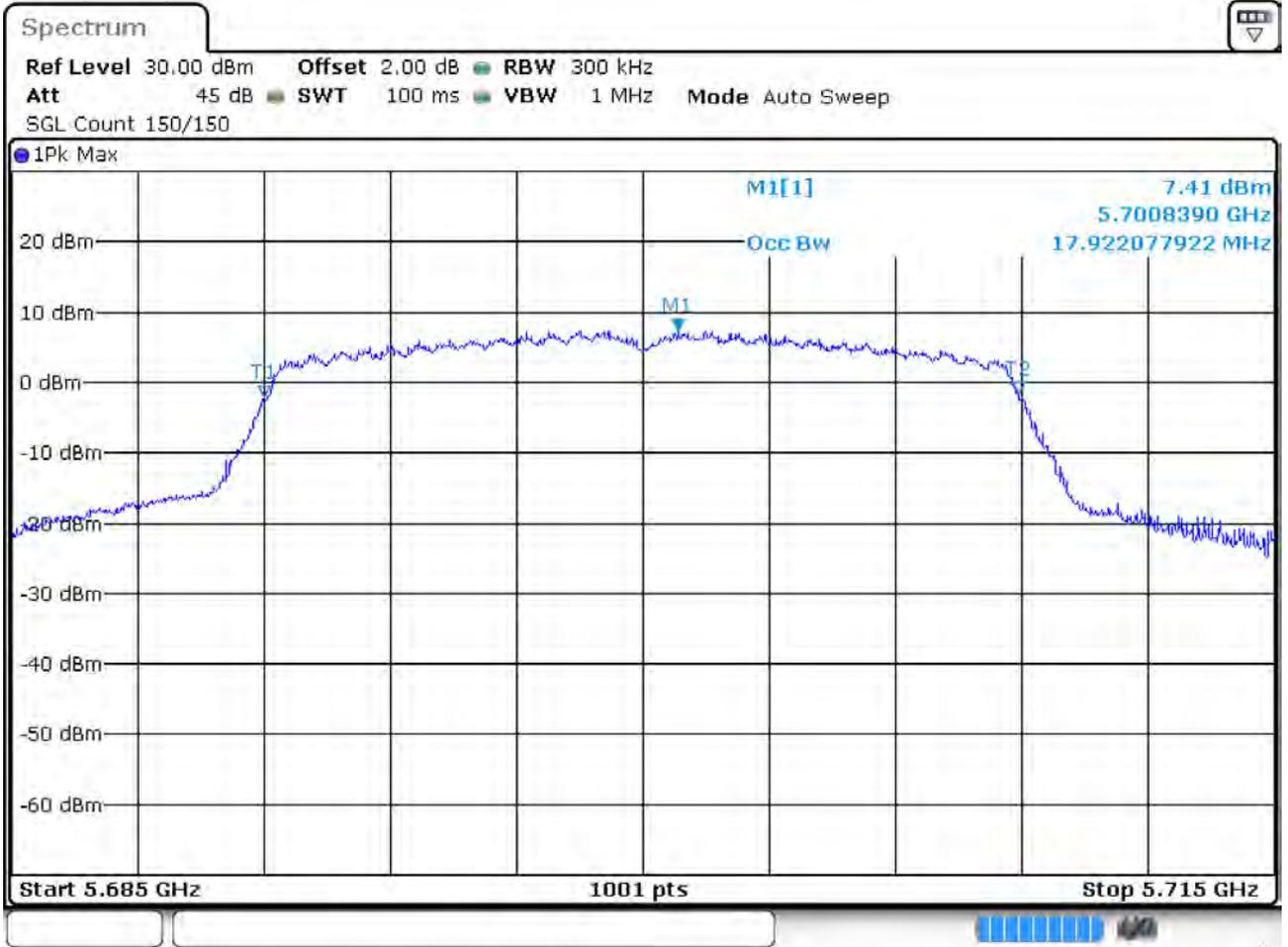
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4.7.2.21 11N20_140 ANT 1



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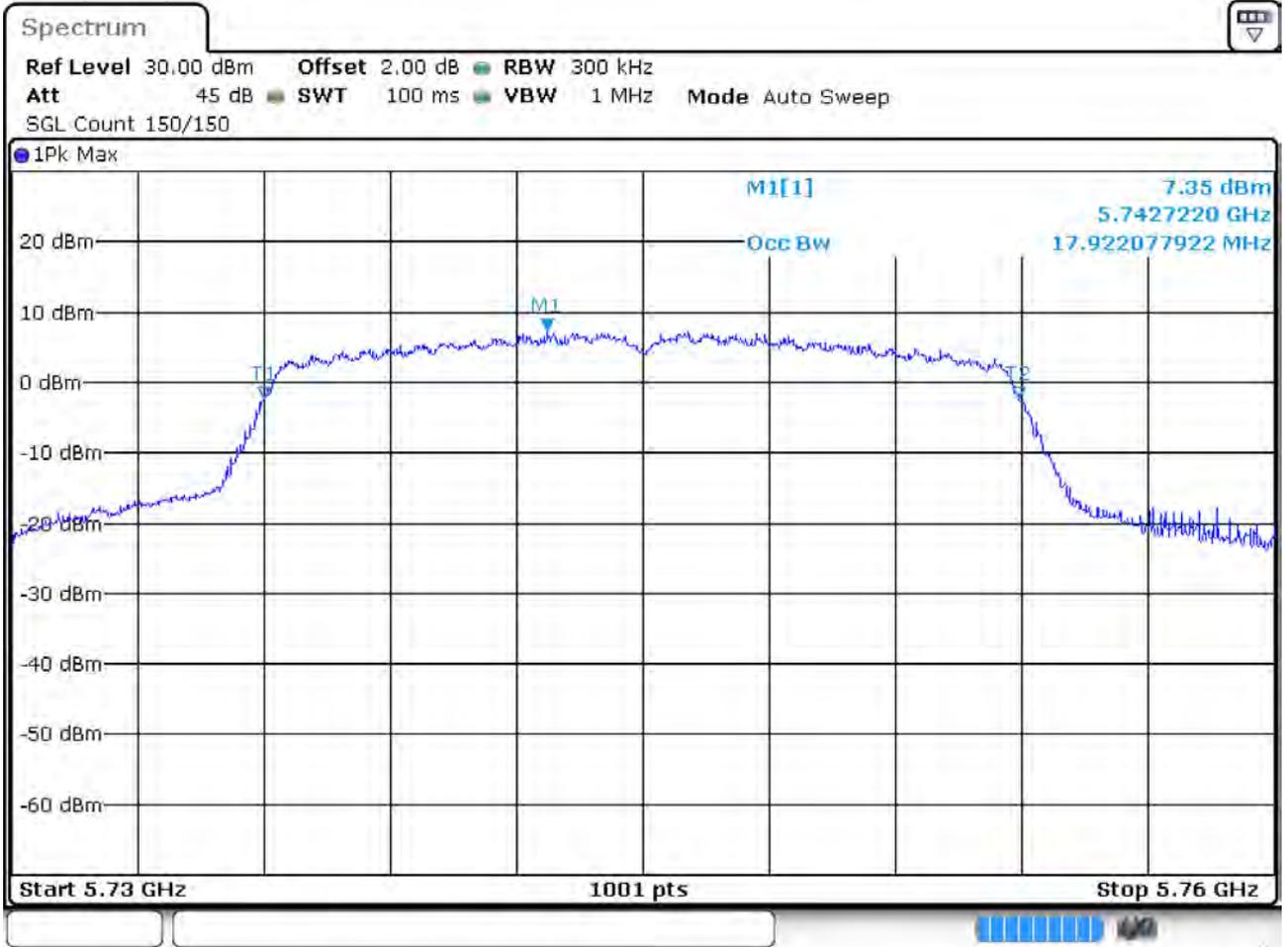


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4.7.2.22 11N20_149 ANT 1



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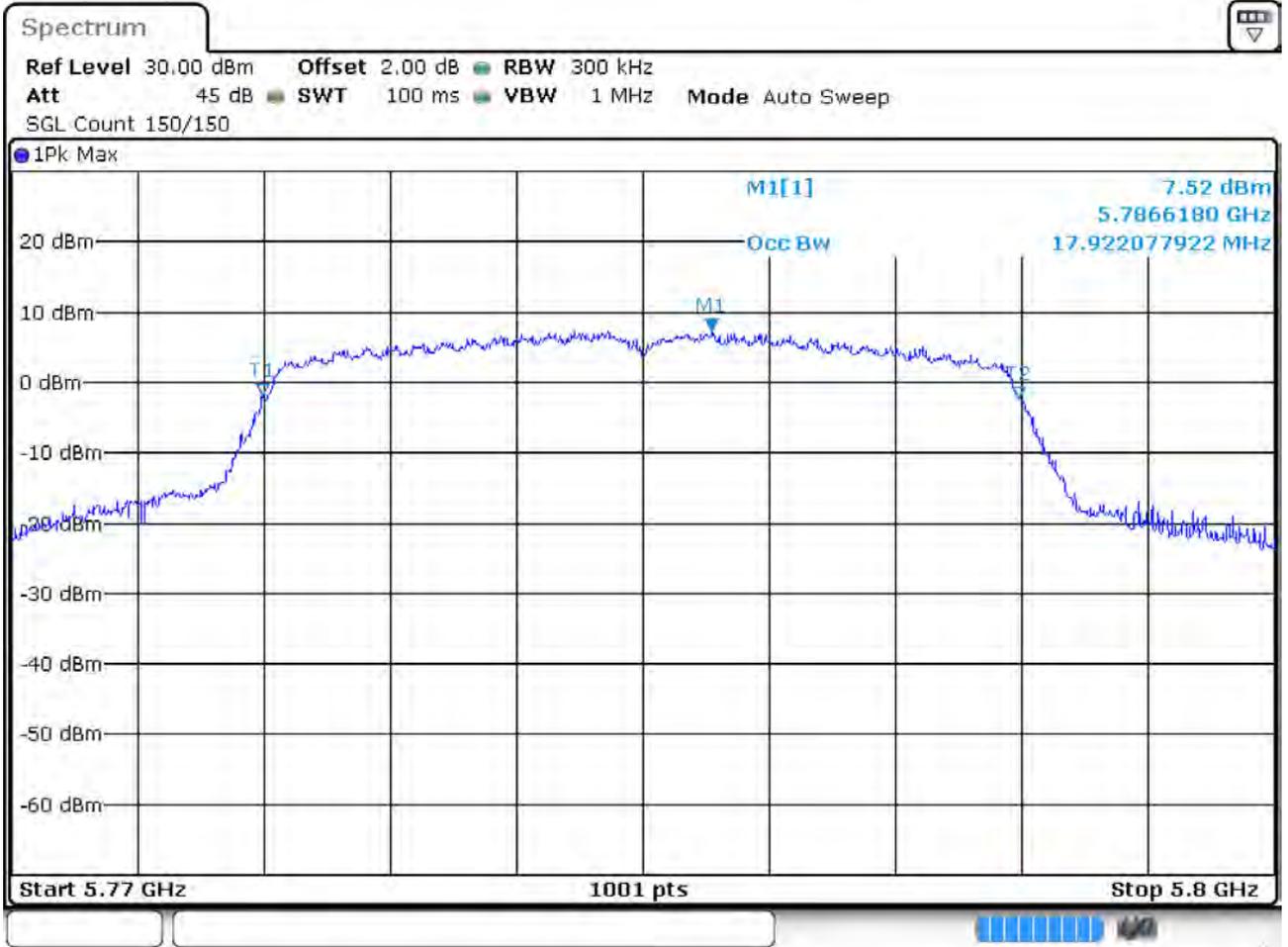
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4.7.2.23 11N20_157 ANT 1



Date: 19.AUG.2020 15:06:35

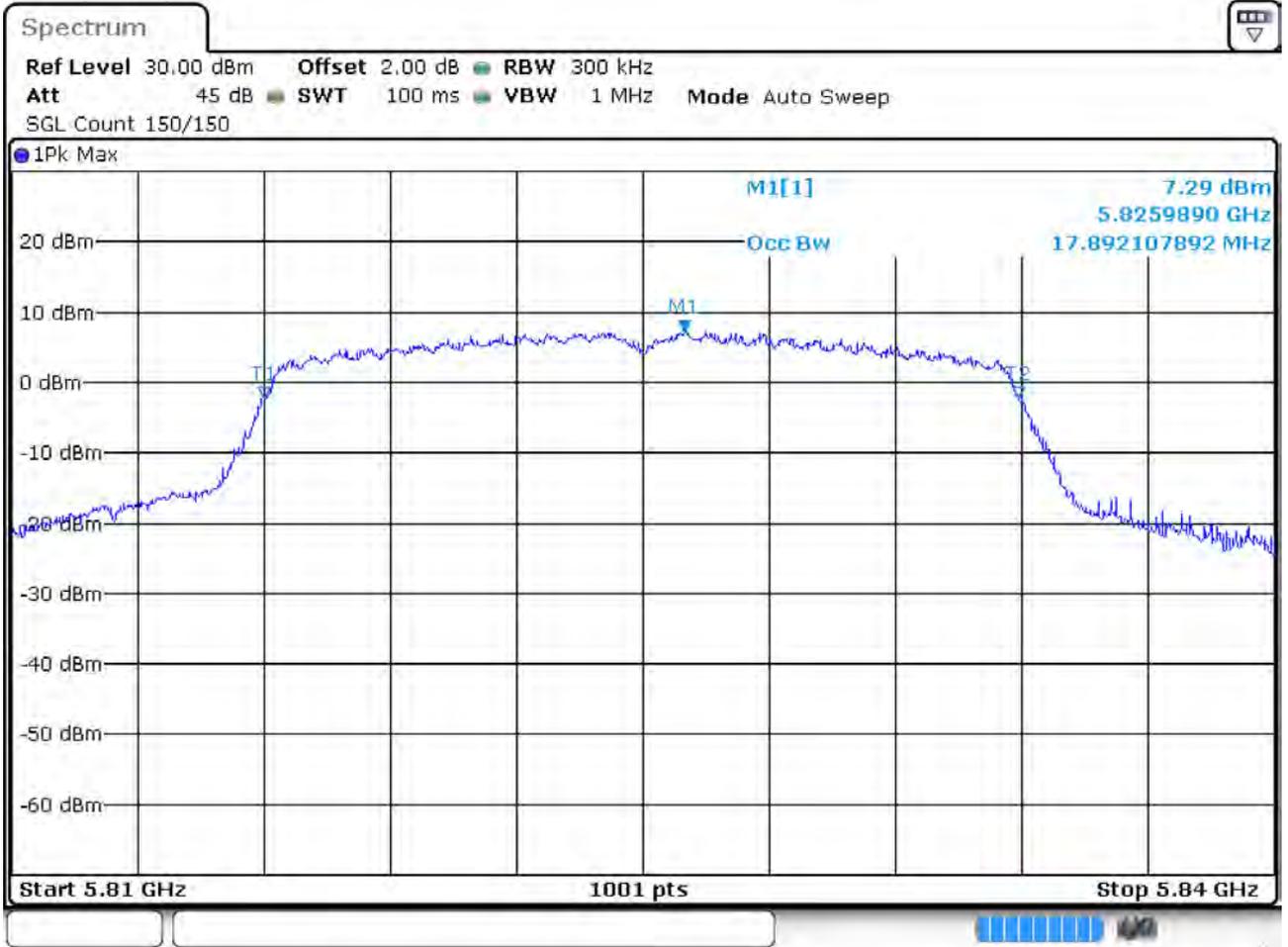


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4.7.2.24 11N20_165 ANT 1



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4.7.2.25 11N40_38 ANT 1



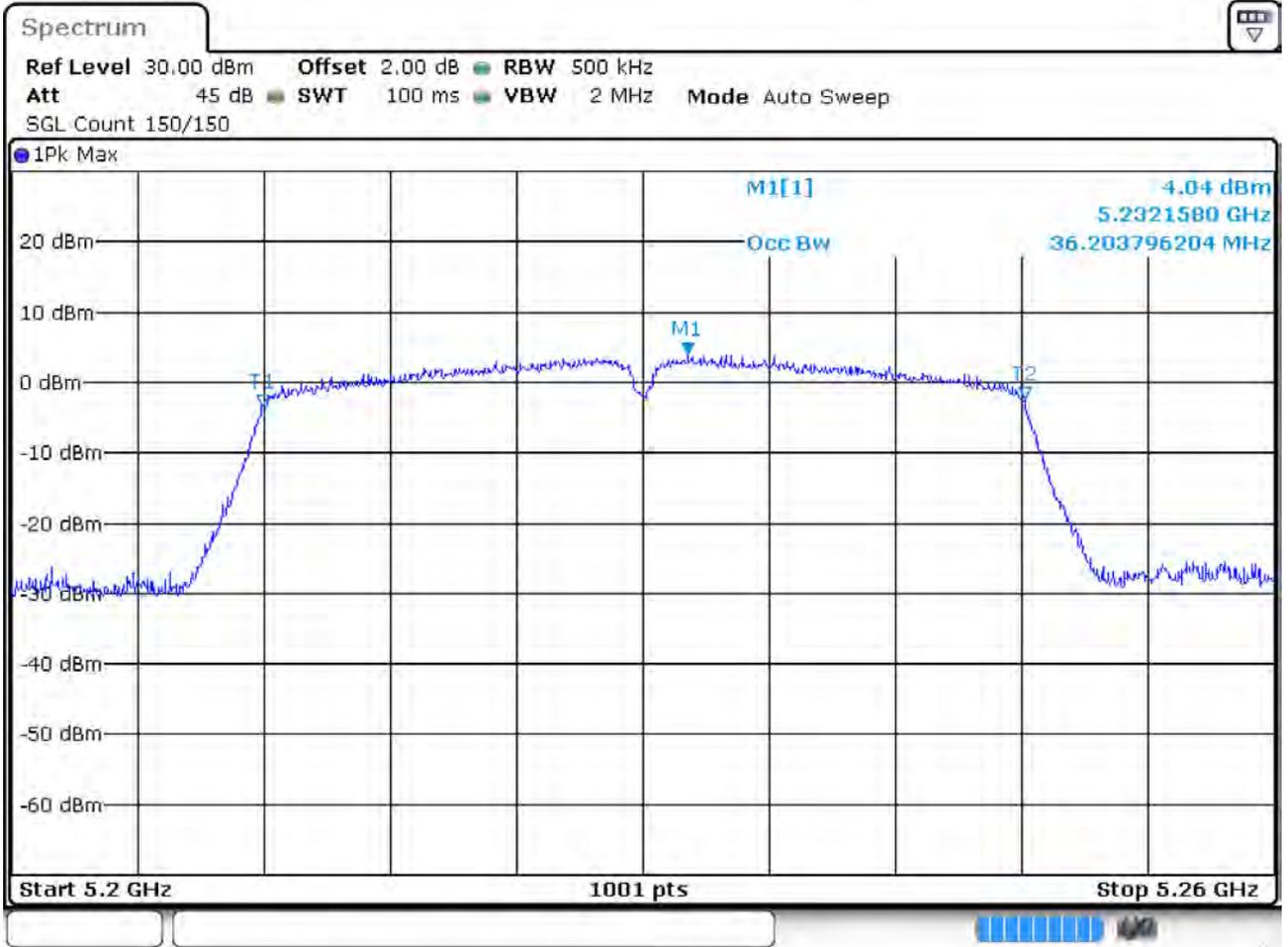
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4.7.2.26 11N40_46 ANT 1



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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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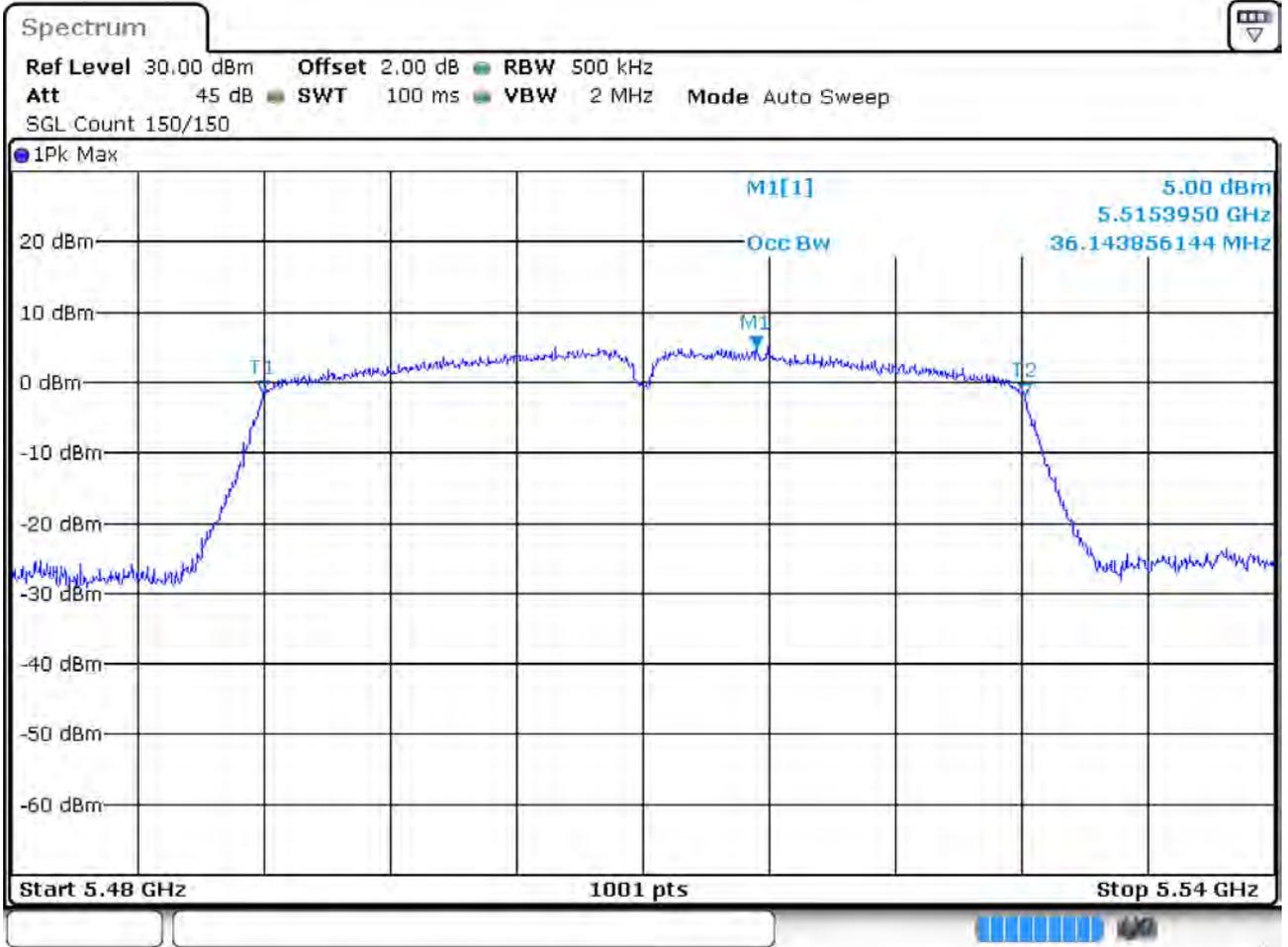


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4.7.2.29 11N40_102 ANT 1



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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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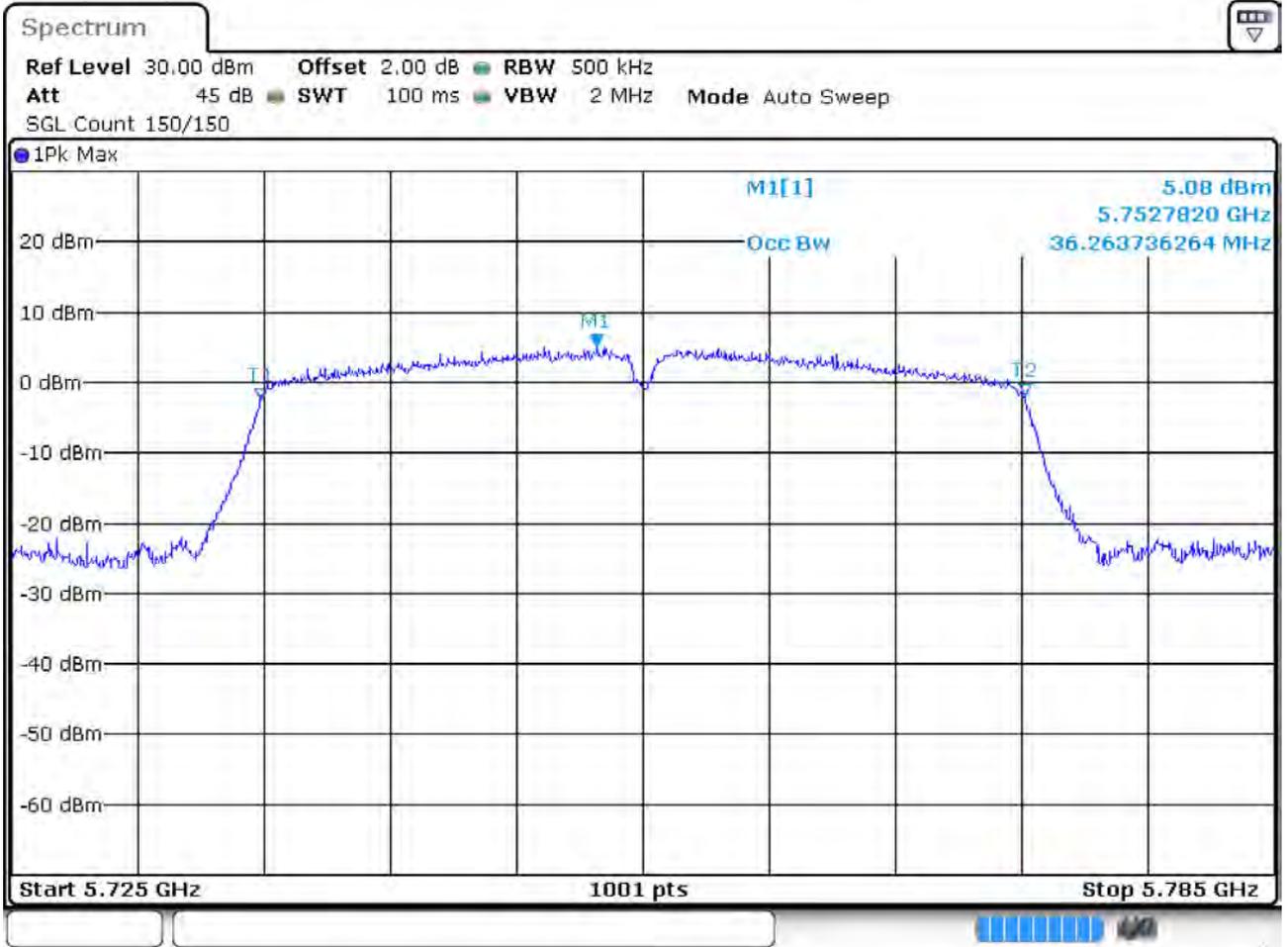


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4.7.2.32 11N40_151 ANT 1



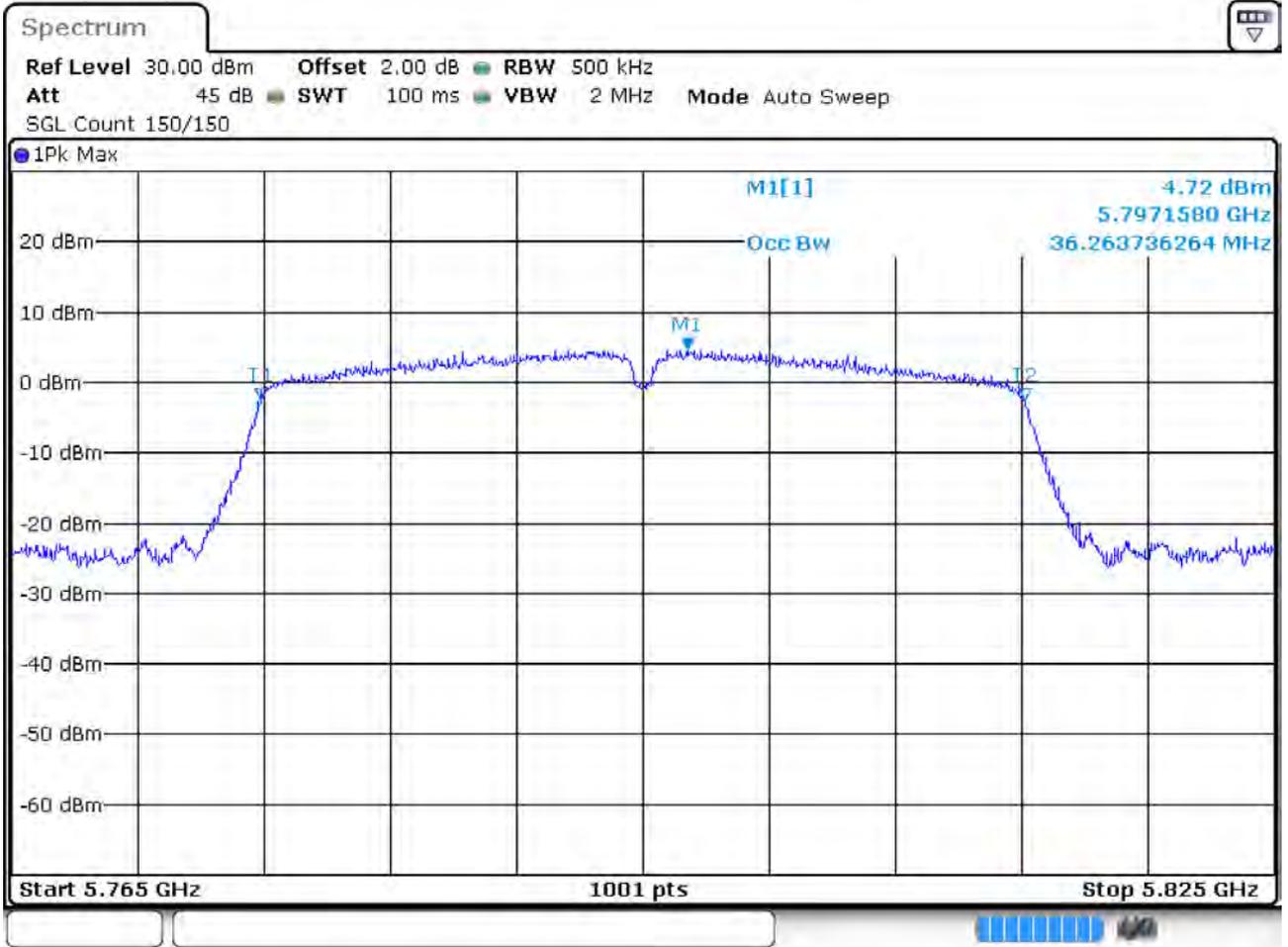
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4.7.2.33 11N40_159 ANT 1



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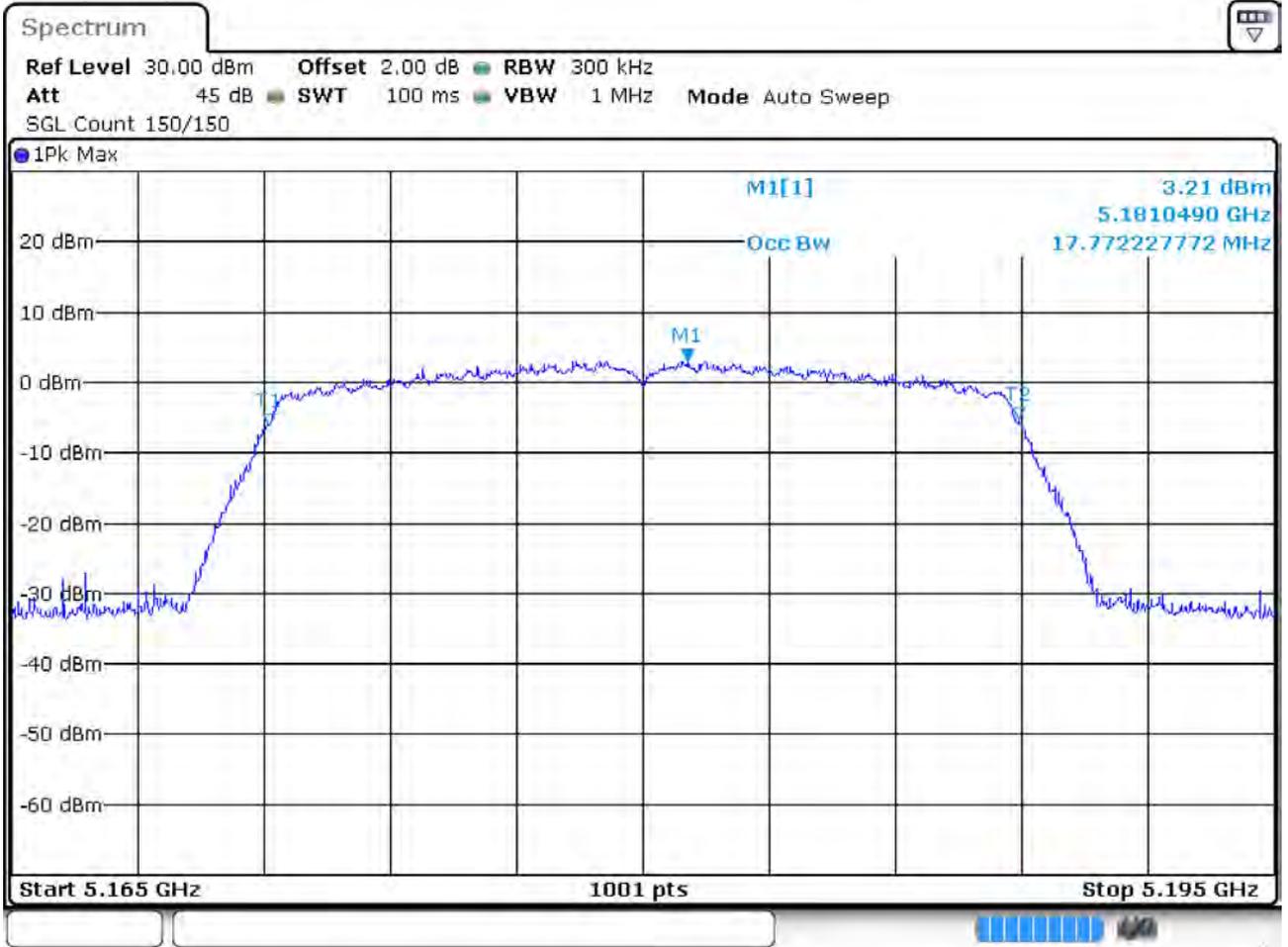


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4.7.2.34 11AC20_36 ANT 1



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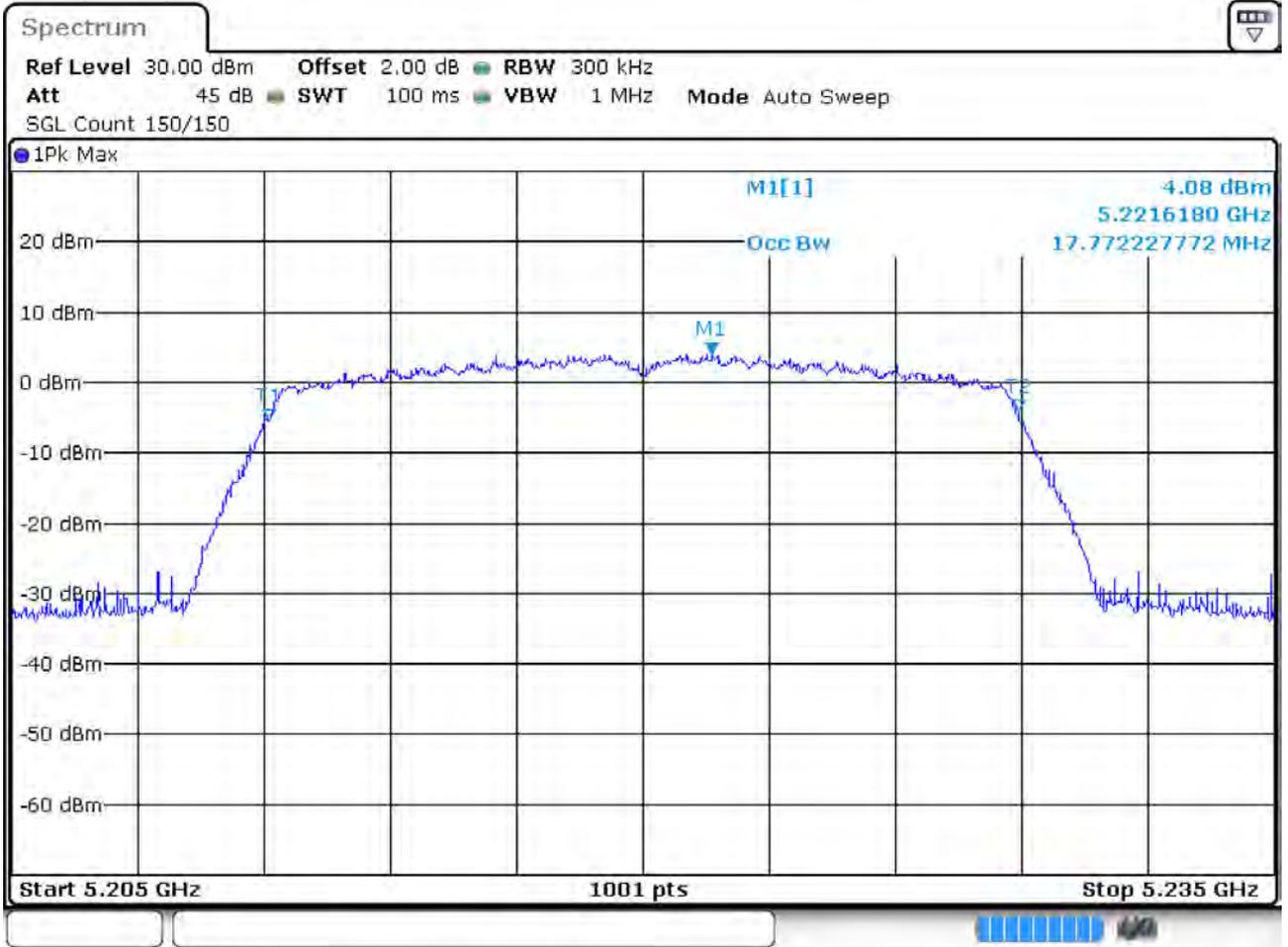
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4.7.2.35 11AC20_44 ANT 1



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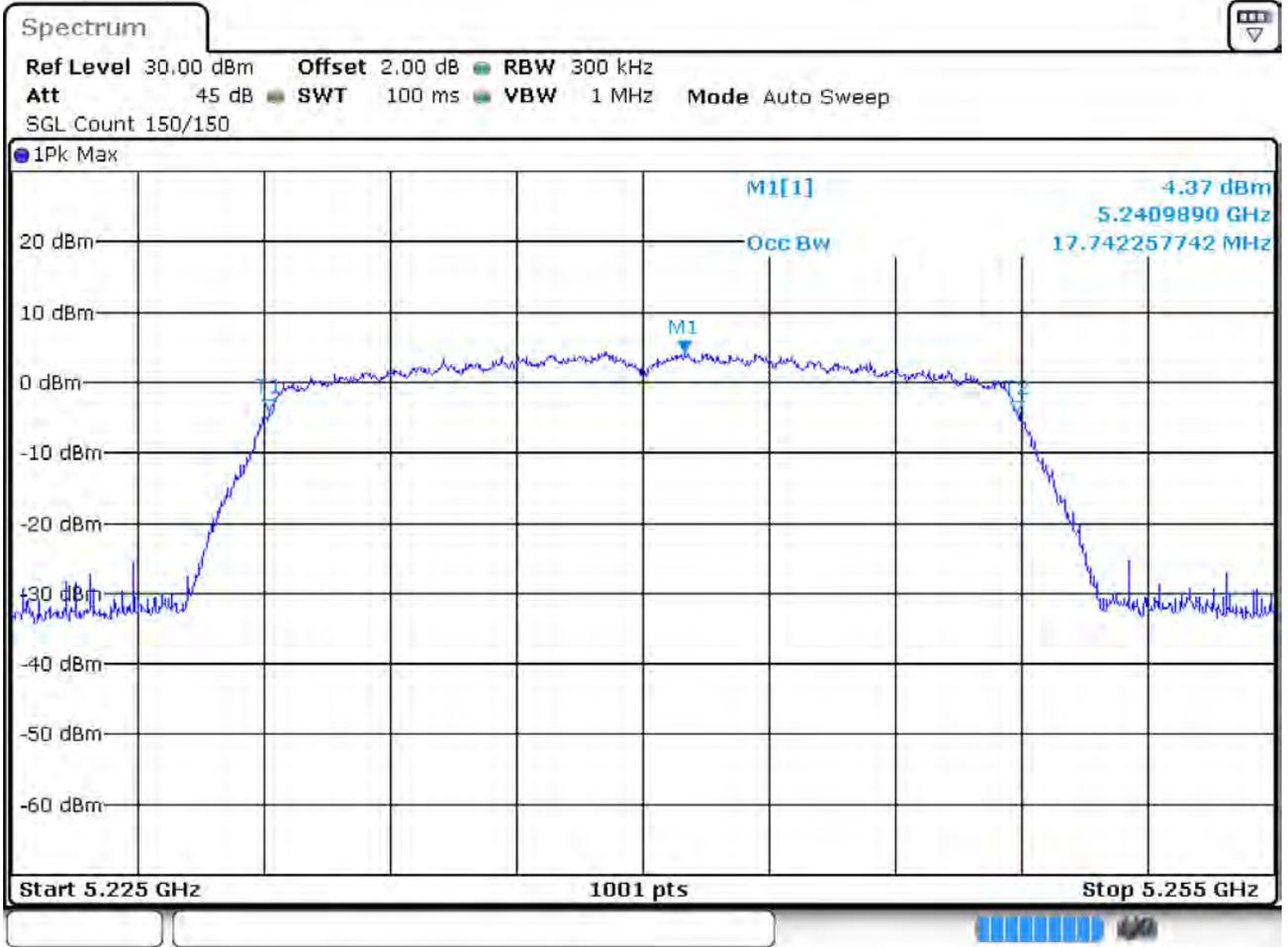


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4.7.2.36 11AC20_48 ANT 1



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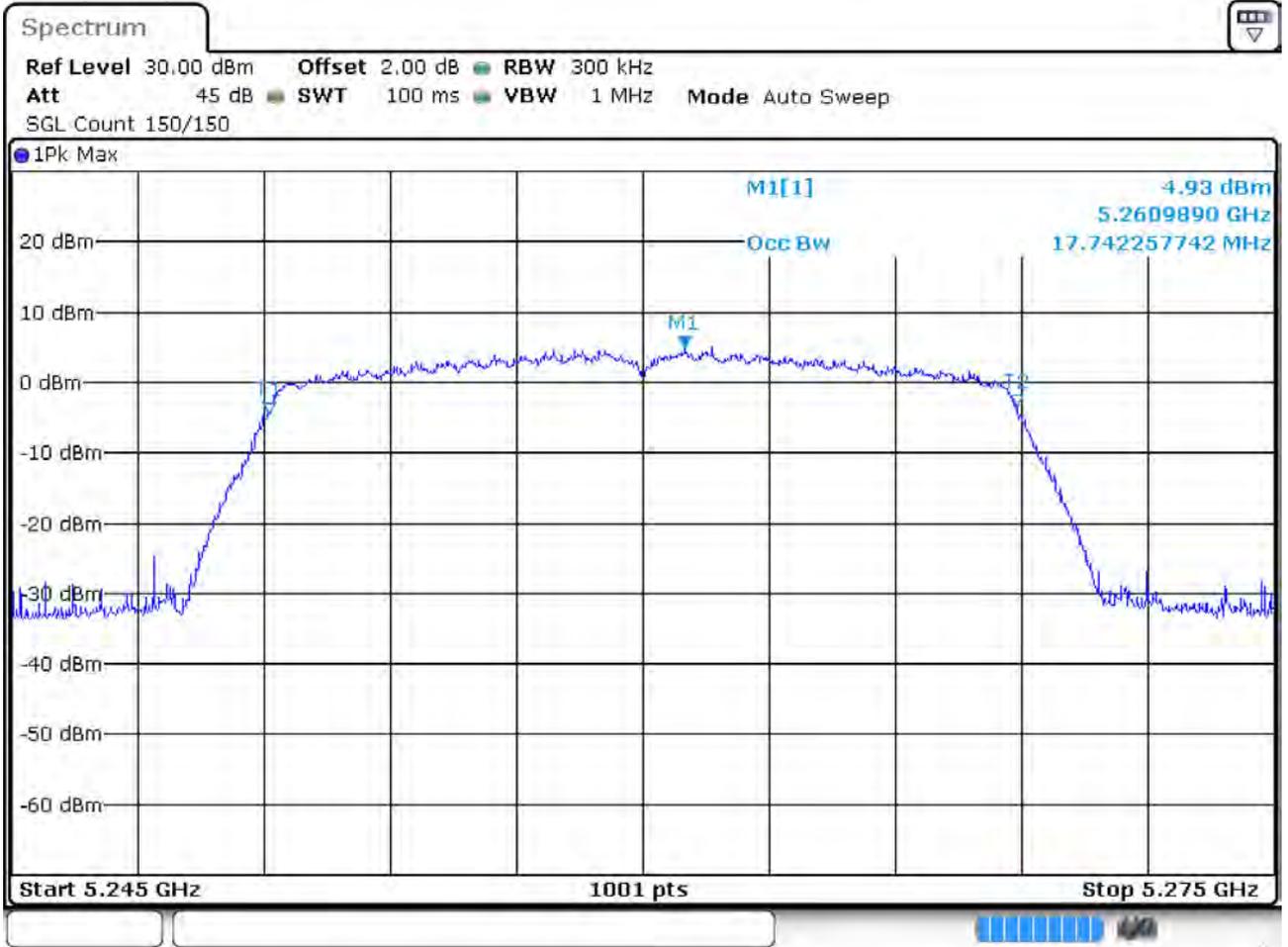
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4.7.2.37 11AC20_52 ANT 1



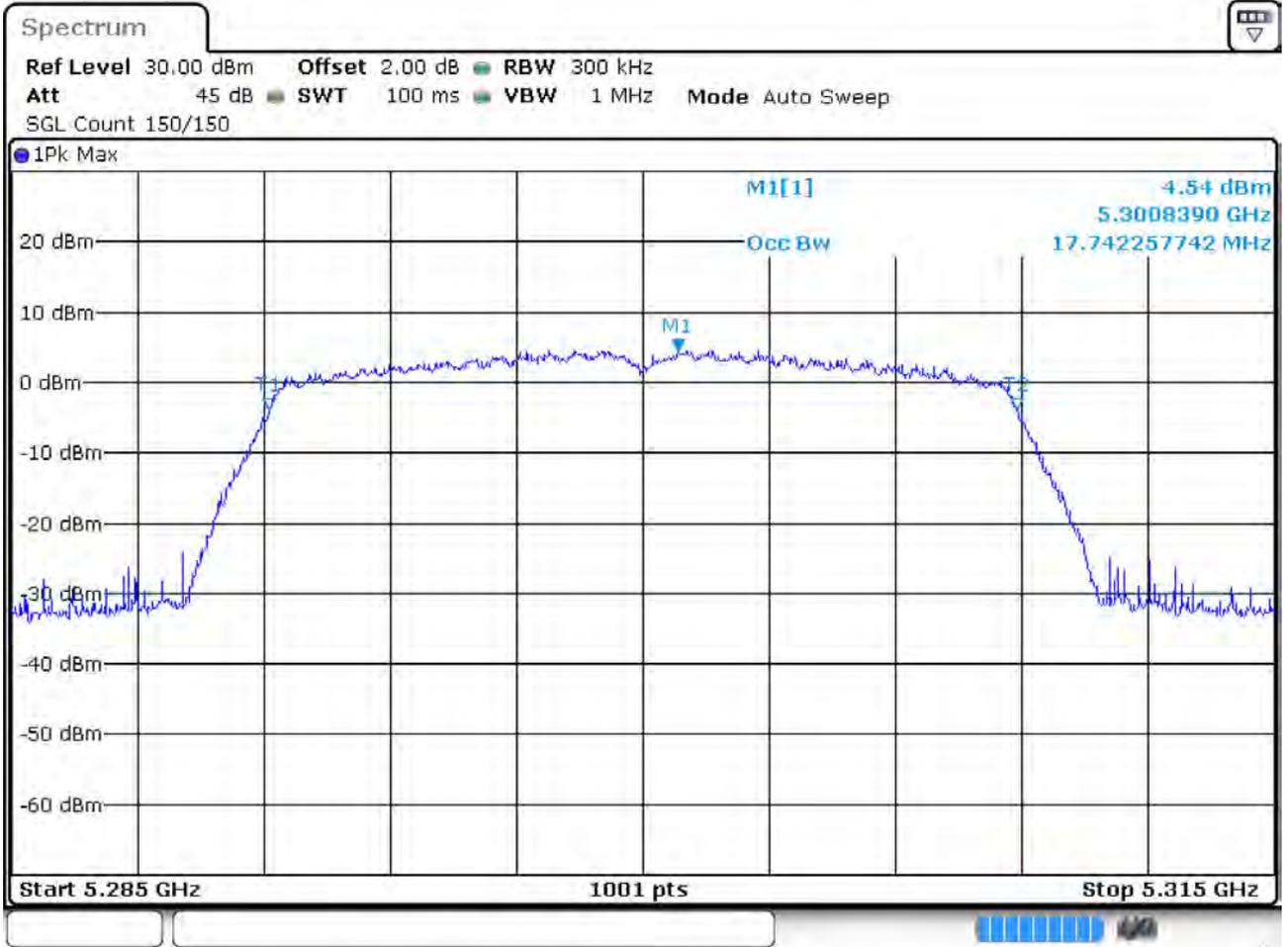
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4.7.2.38 11AC20_60 ANT 1



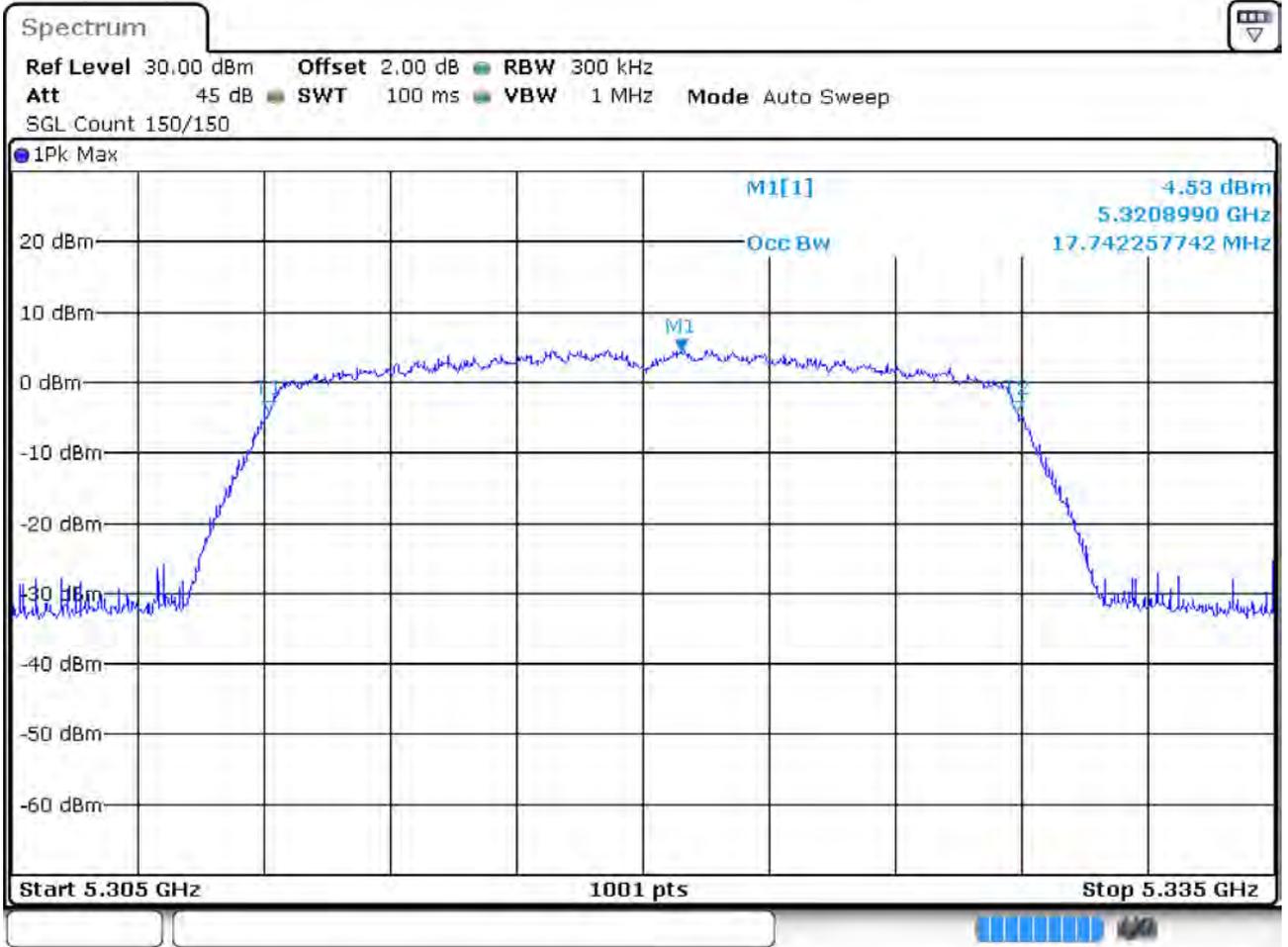
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4.7.2.39 11AC20_64 ANT 1



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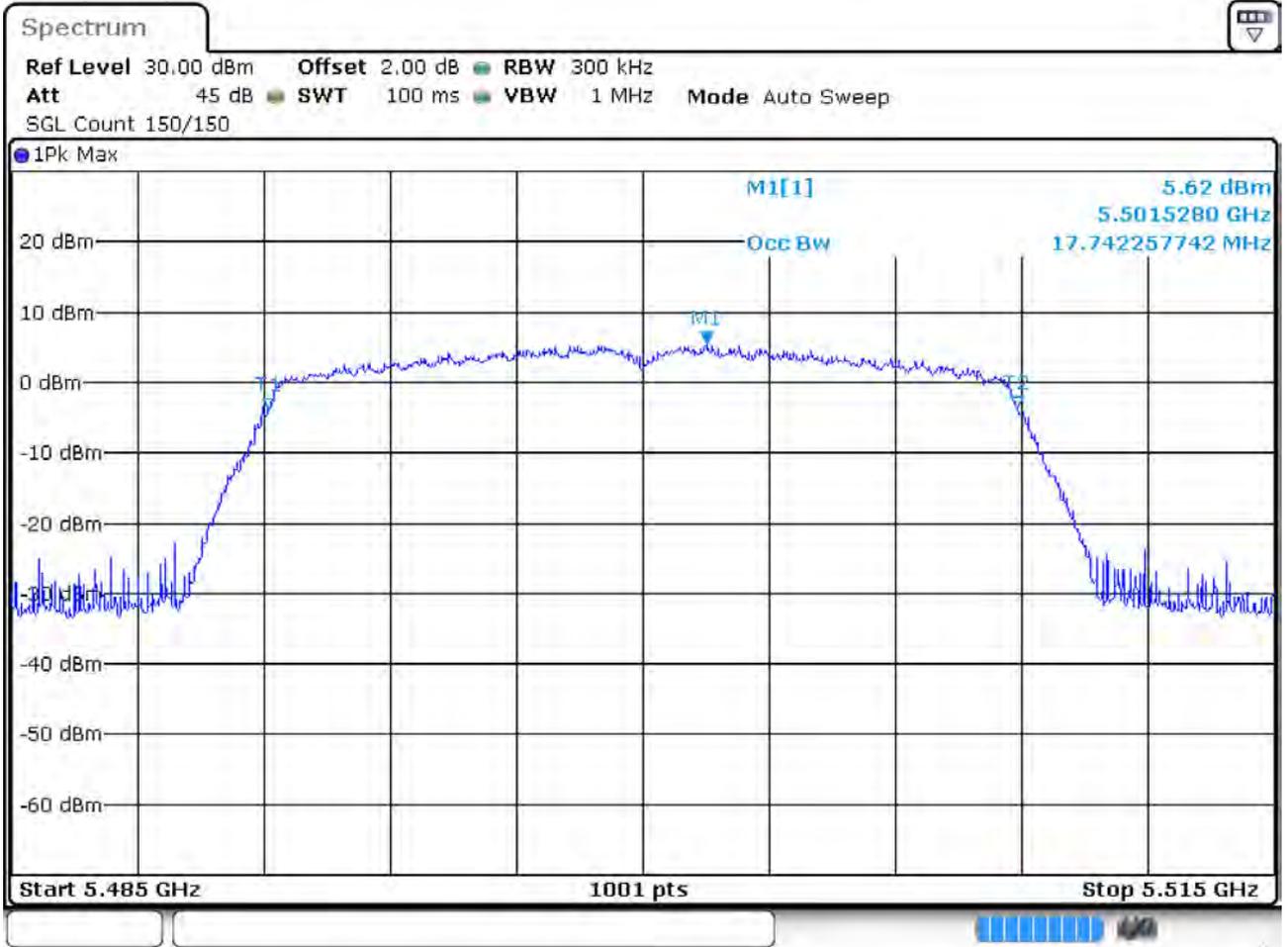


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4.7.2.40 11AC20_100 ANT 1



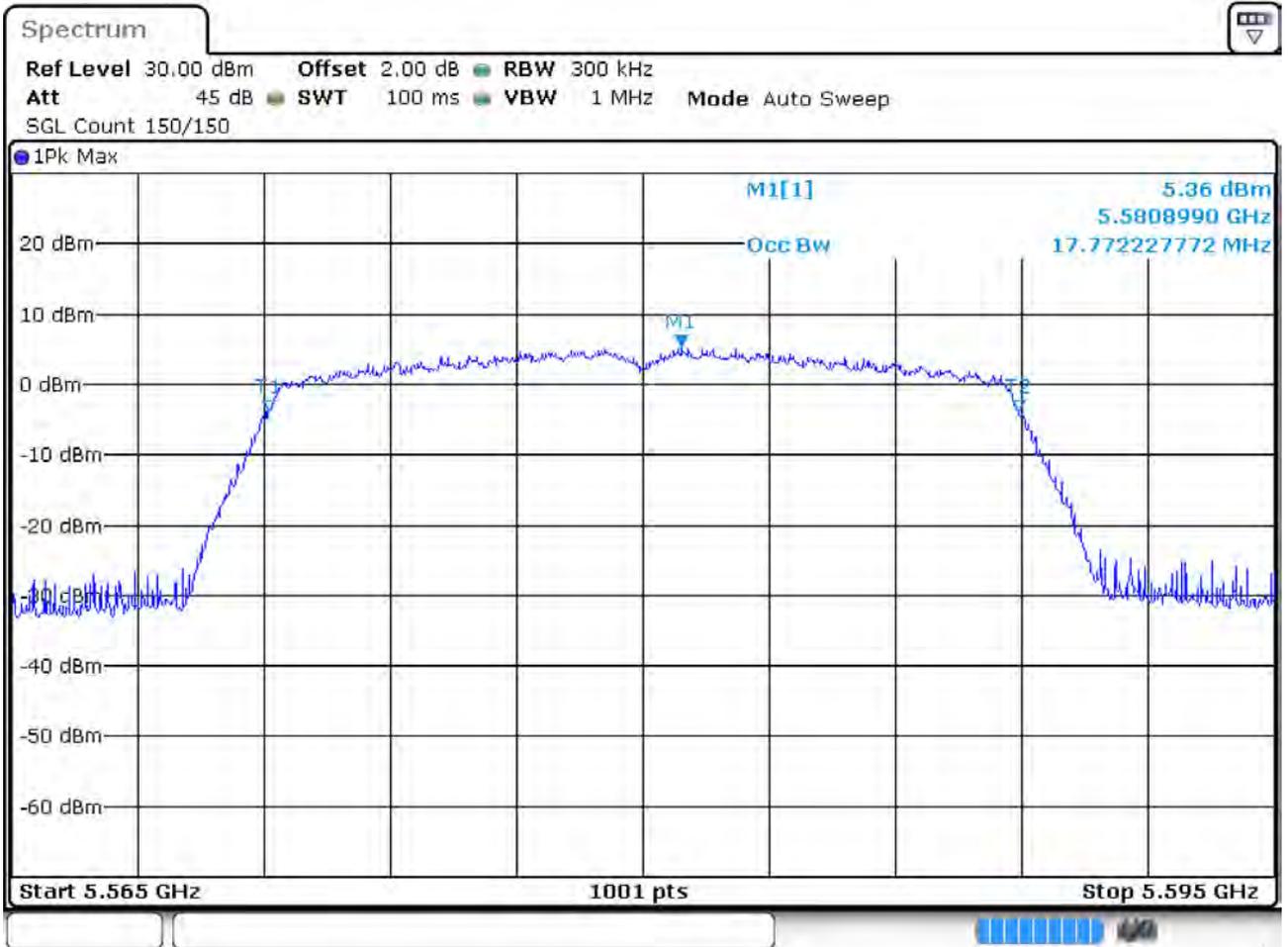
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4.7.2.41 11AC20_116 ANT 1



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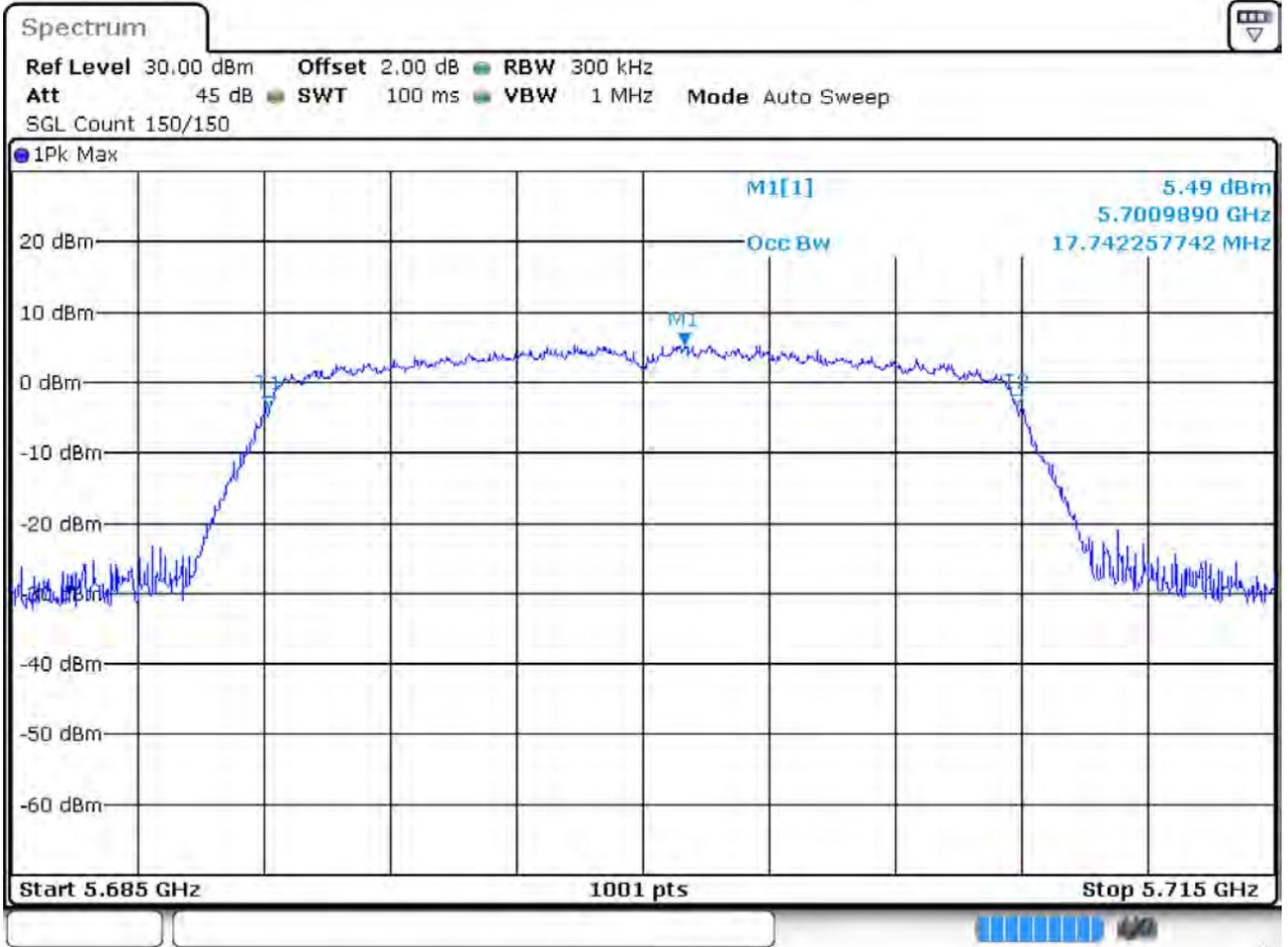
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4.7.2.42 11AC20_140 ANT 1



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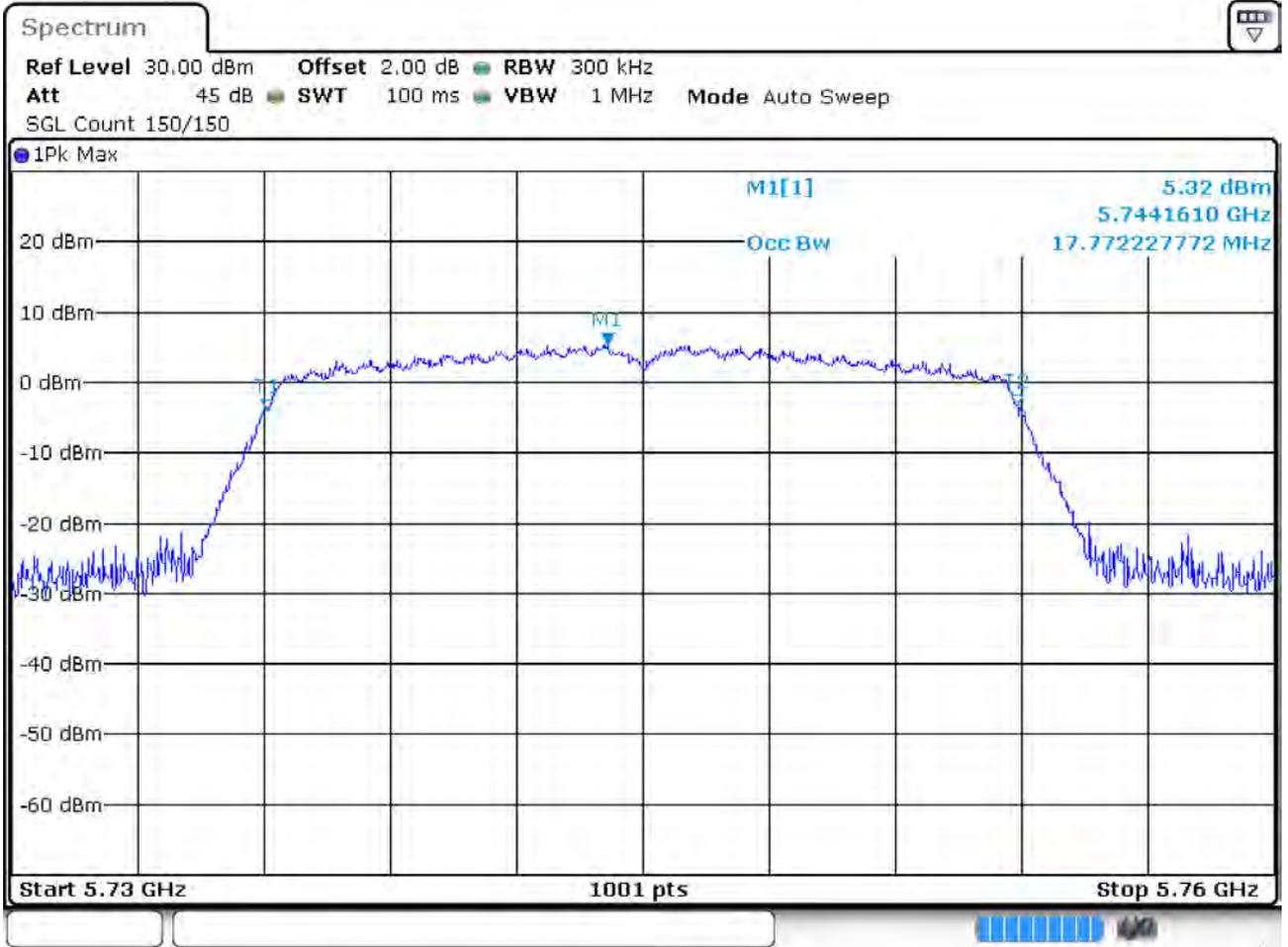


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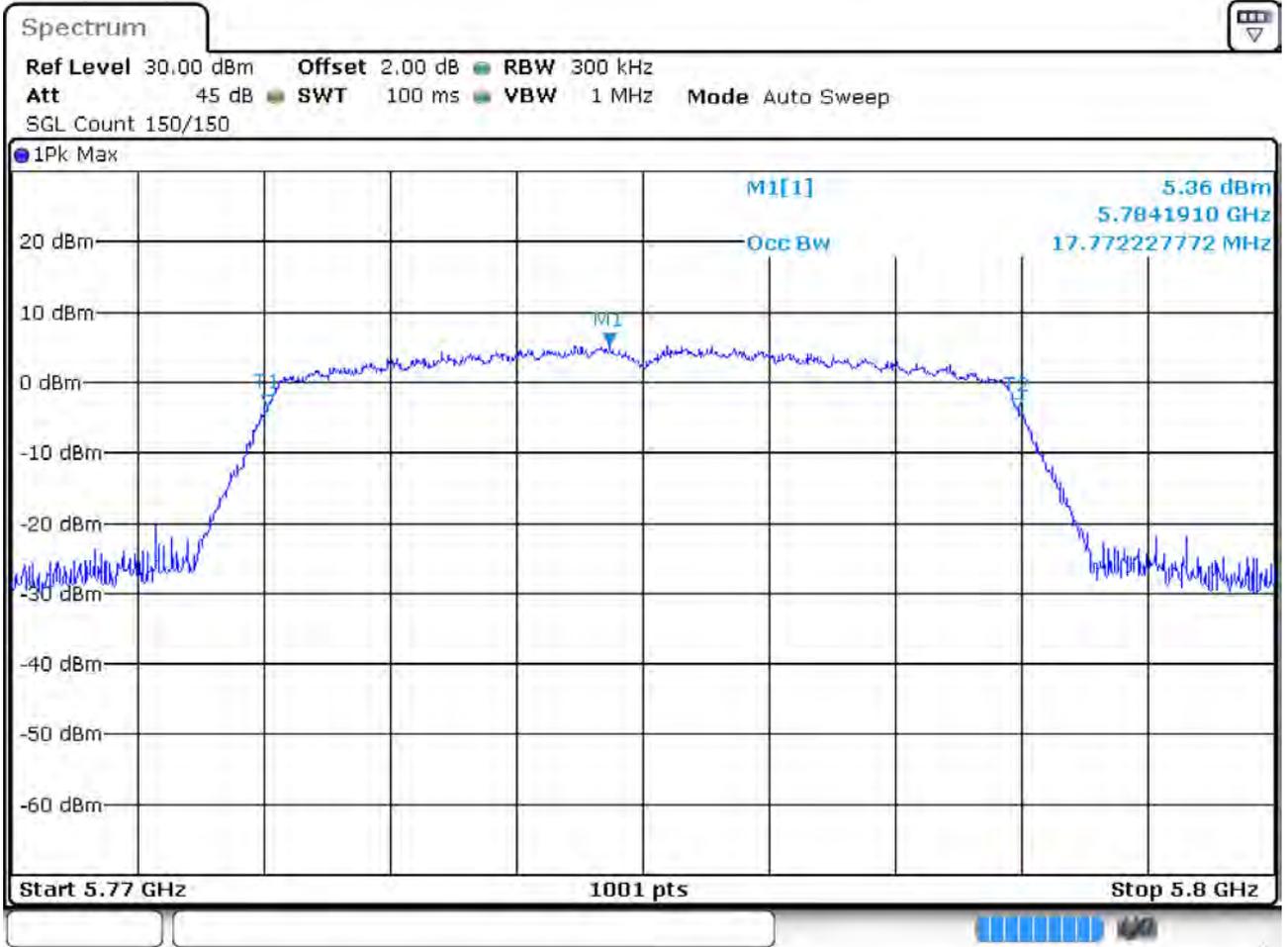
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