4.5.1.92 11AX20MIMO_52T_140 ANT 2

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.696793 GHz	12.17 dBm		
M2		1	5.69028 GHz	-13.87 dBm		
M3		1	5.70954 GHz	-14.19 dBm		

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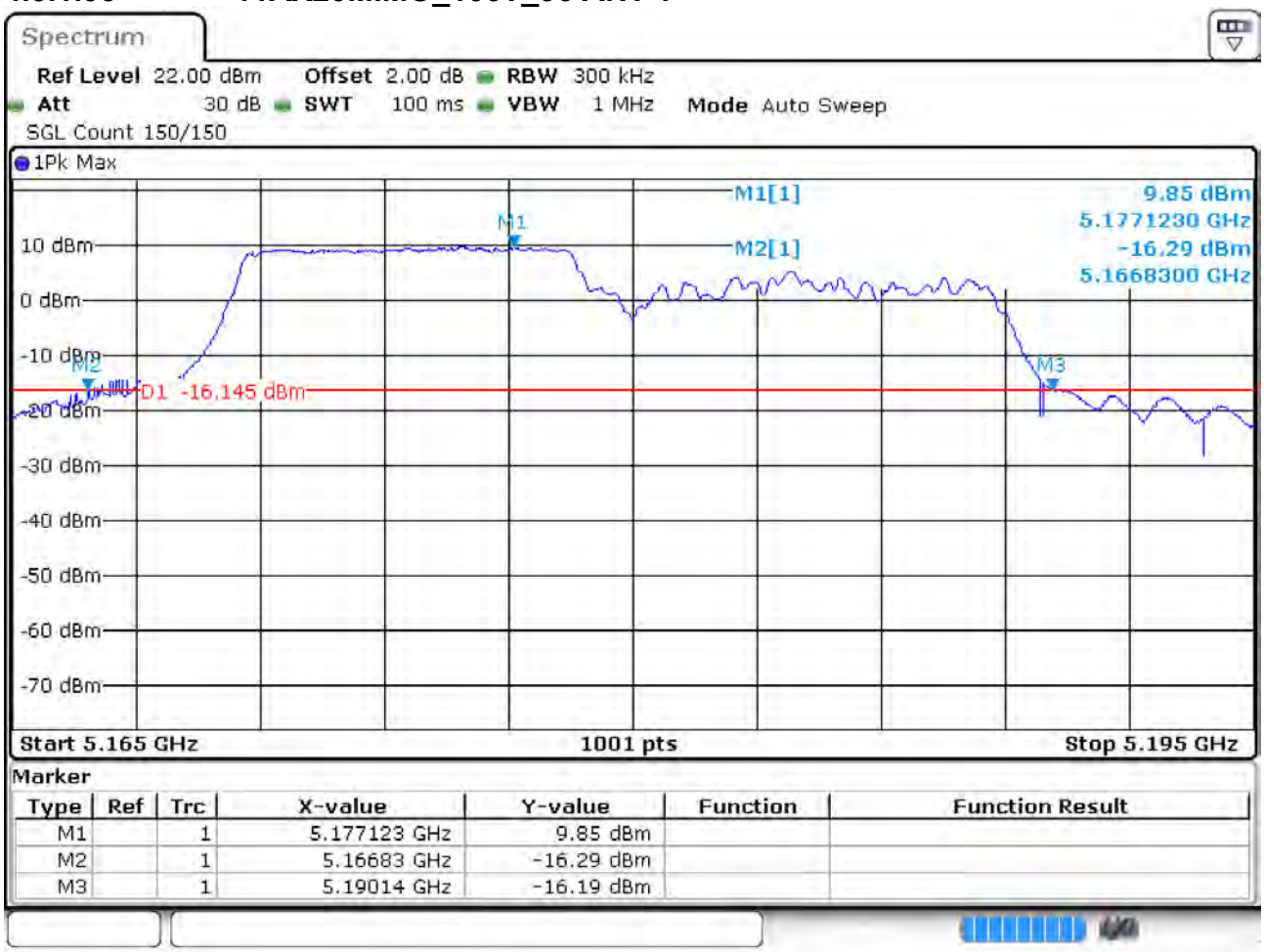
4.5.1.93 11AX20MIMO_106T_36 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.177123 GHz	9.85 dBm		
M2		1	5.16683 GHz	-16.29 dBm		
M3		1	5.19014 GHz	-16.19 dBm		

Date: 11.APR.2020 09:09:14

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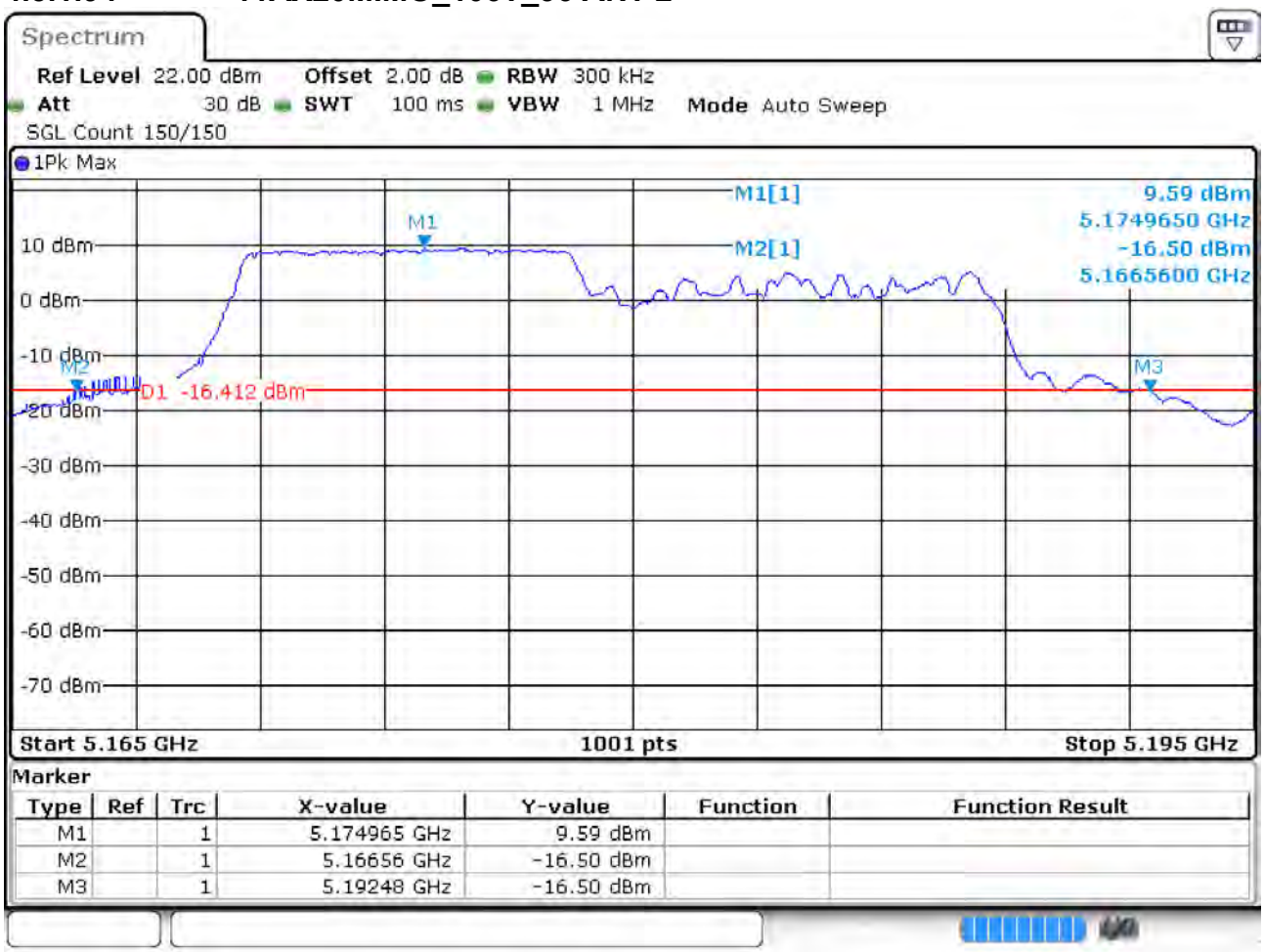
4.5.1.94 11AX20MIMO_106T_36 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.174965 GHz	9.59 dBm		
M2		1	5.16656 GHz	-16.50 dBm		
M3		1	5.19248 GHz	-16.50 dBm		

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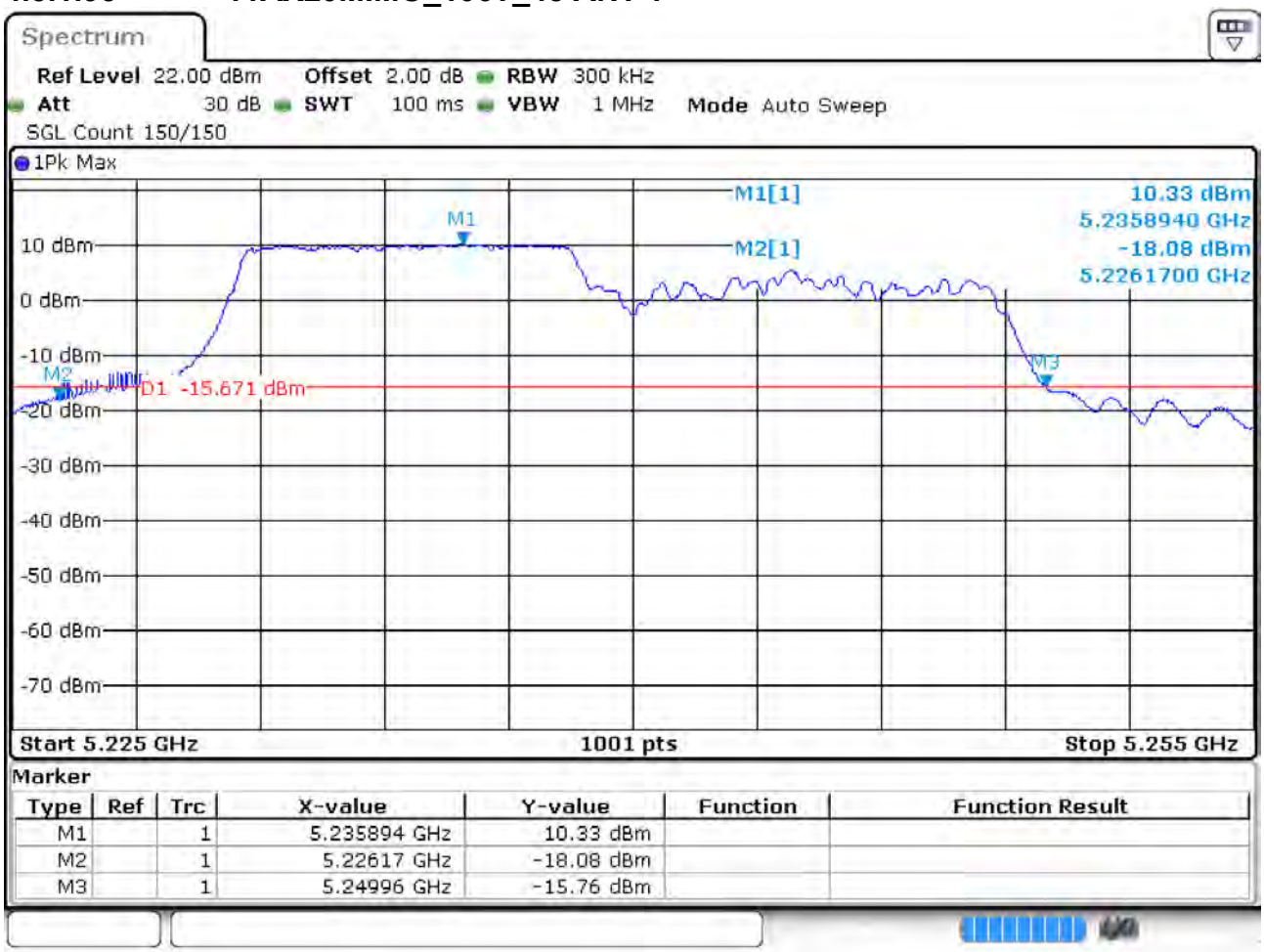
4.5.1.95 11AX20MIMO_106T_48 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.235894 GHz	10.33 dBm		
M2		1	5.22617 GHz	-18.08 dBm		
M3		1	5.24996 GHz	-15.76 dBm		

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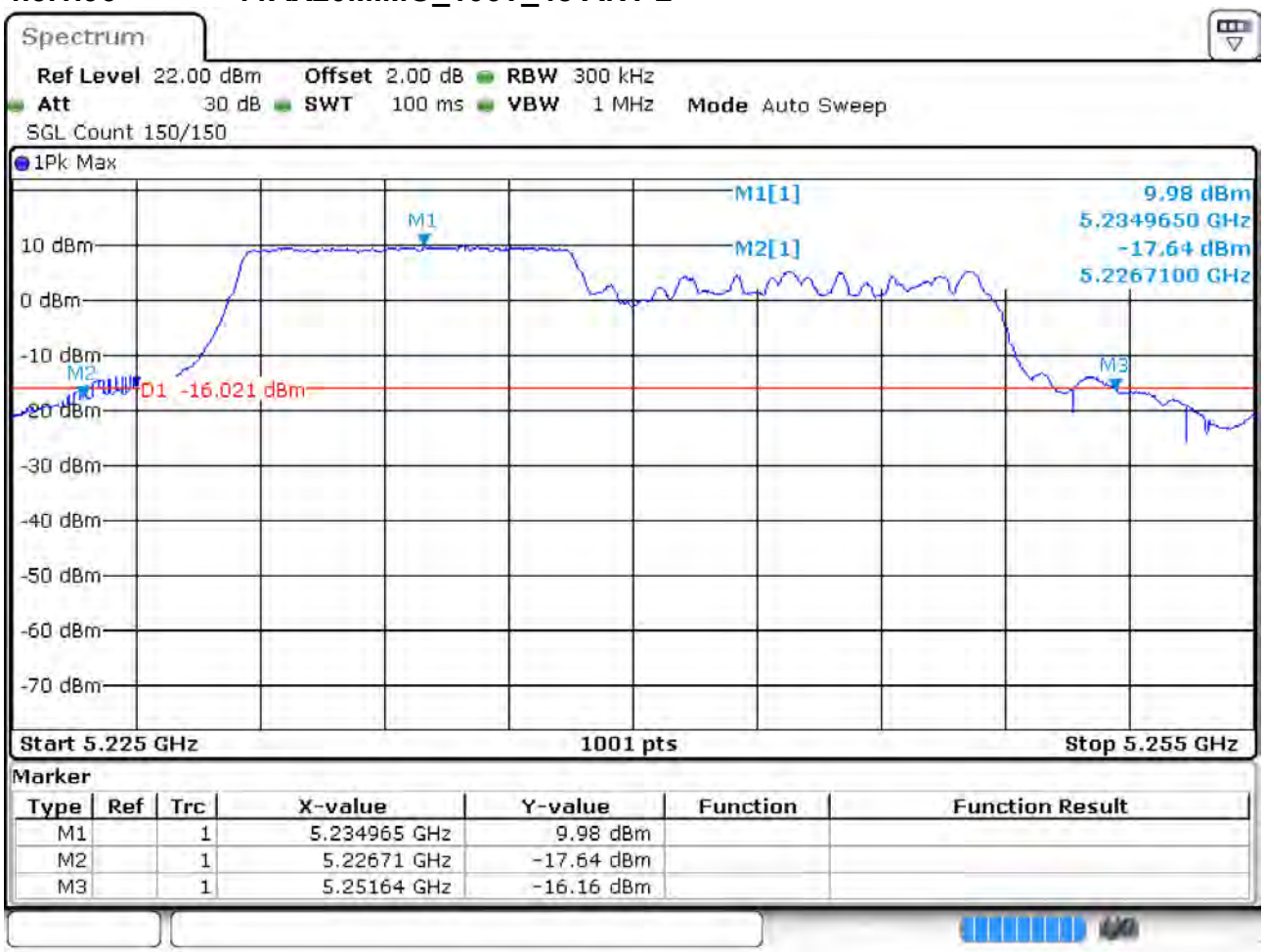
4.5.1.96 11AX20MIMO_106T_48 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.234965 GHz	9.98 dBm		
M2		1	5.22671 GHz	-17.64 dBm		
M3		1	5.25164 GHz	-16.16 dBm		

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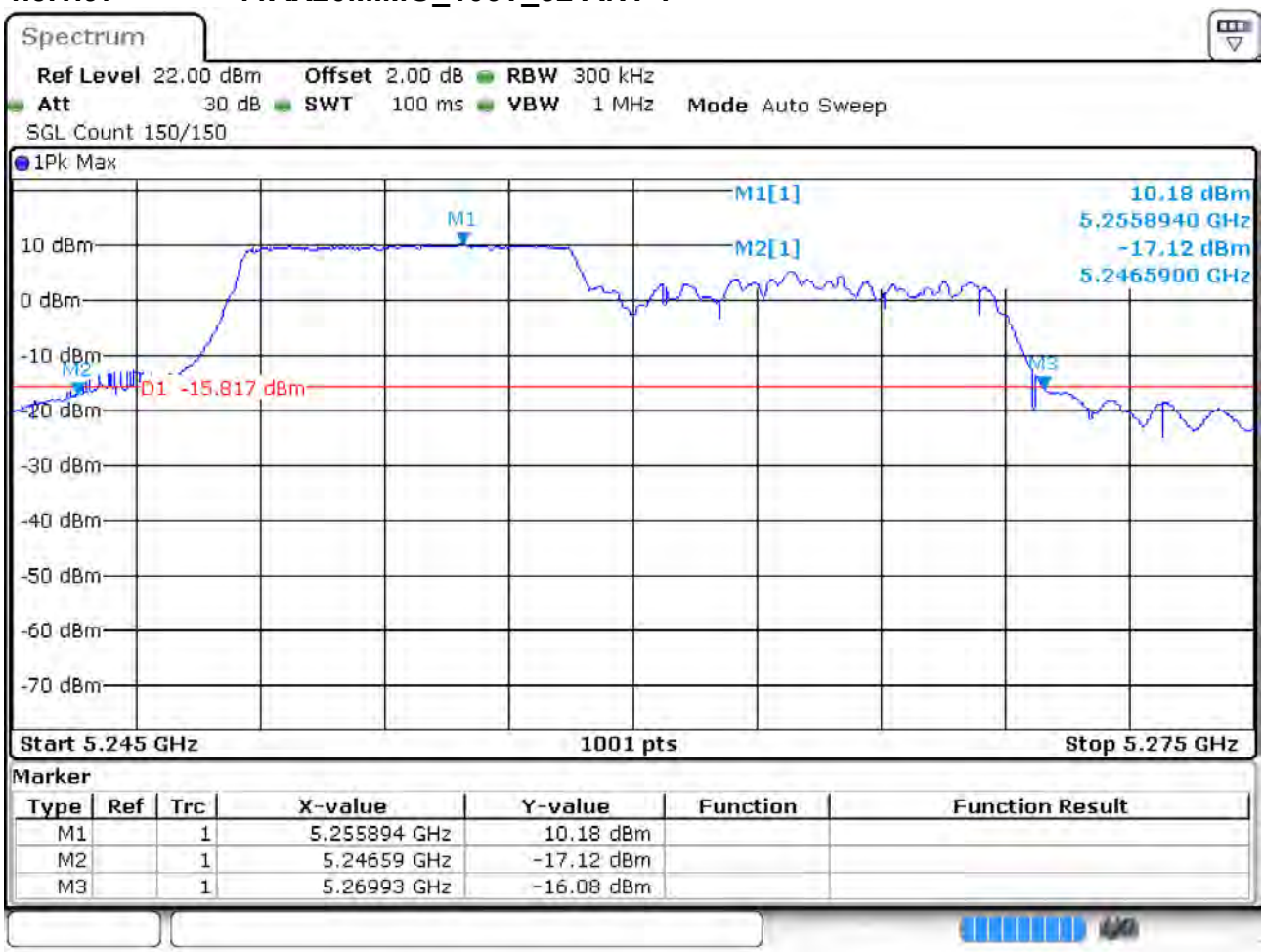
4.5.1.97 11AX20MIMO_106T_52 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.255894 GHz	10.18 dBm		
M2		1	5.24659 GHz	-17.12 dBm		
M3		1	5.26993 GHz	-16.08 dBm		

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4.5.1.98 11AX20MIMO_106T_52 ANT 2

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.254935 GHz	9.72 dBm		
M2		1	5.24662 GHz	-16.48 dBm		
M3		1	5.27161 GHz	-17.01 dBm		

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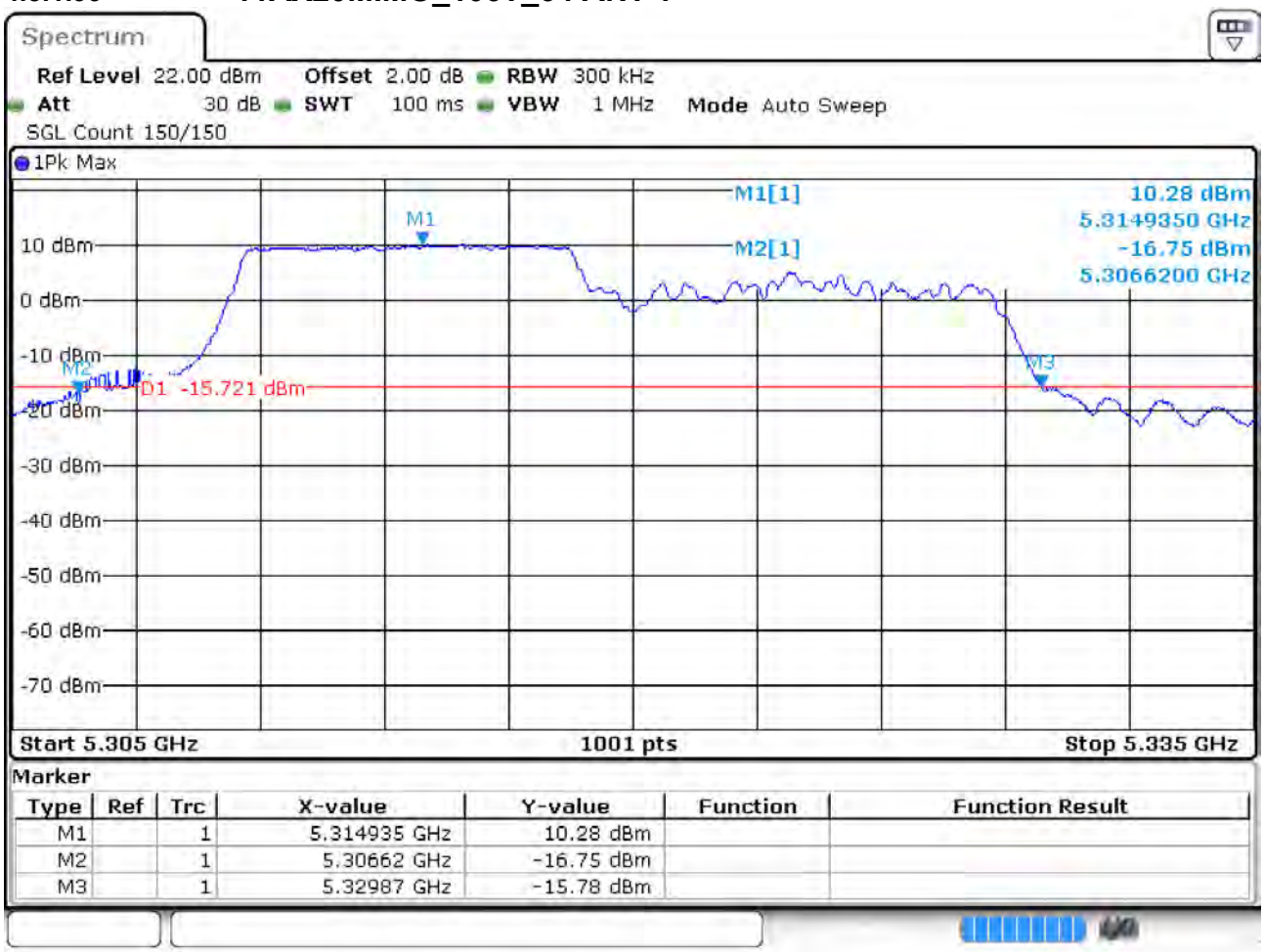
4.5.1.99 11AX20MIMO_106T_64 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.314935 GHz	10.28 dBm		
M2		1	5.30662 GHz	-16.75 dBm		
M3		1	5.32987 GHz	-15.78 dBm		

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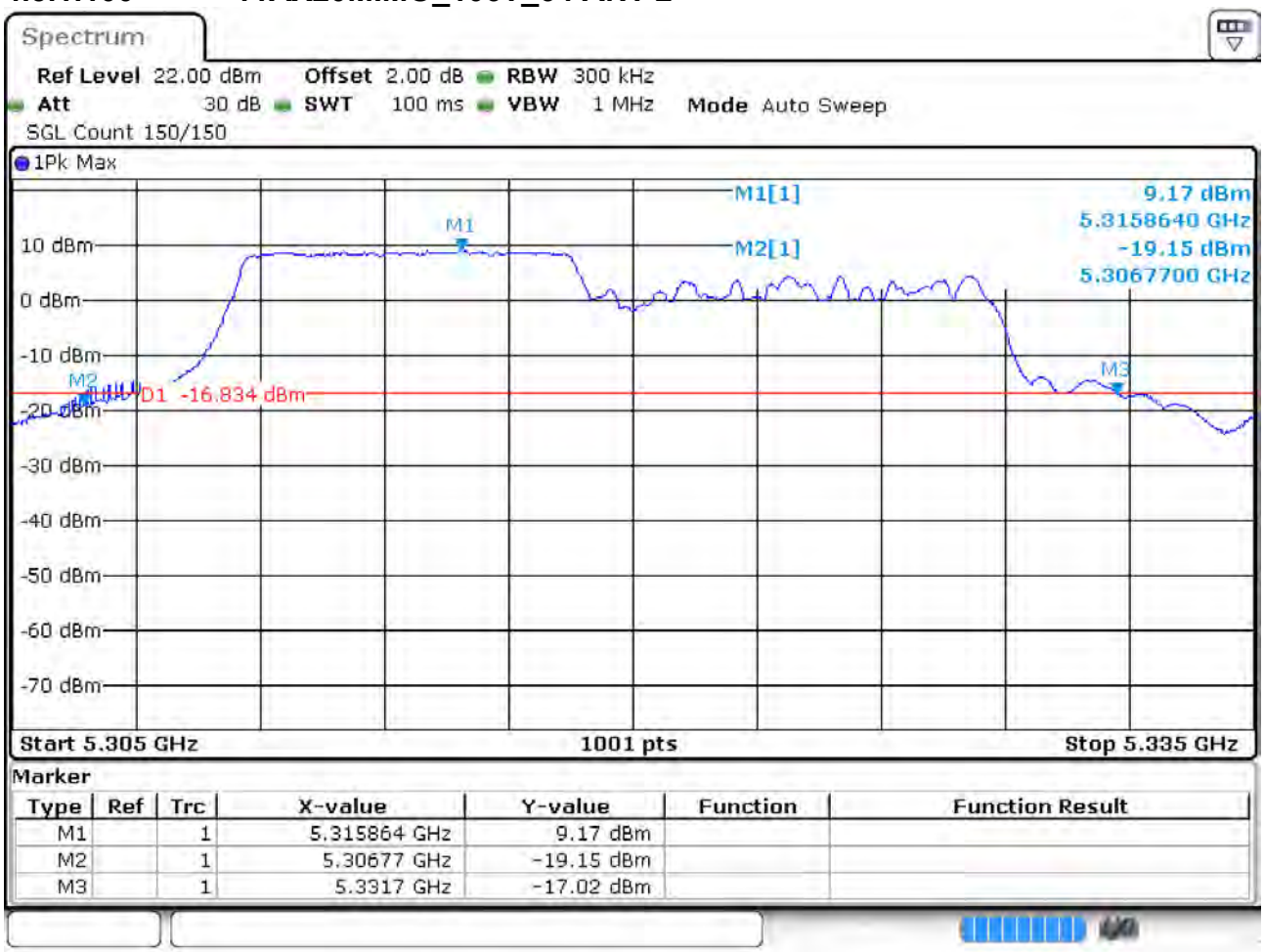
4.5.1.100 11AX20MIMO_106T_64 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.315864 GHz	9.17 dBm		
M2		1	5.30677 GHz	-19.15 dBm		
M3		1	5.3317 GHz	-17.02 dBm		

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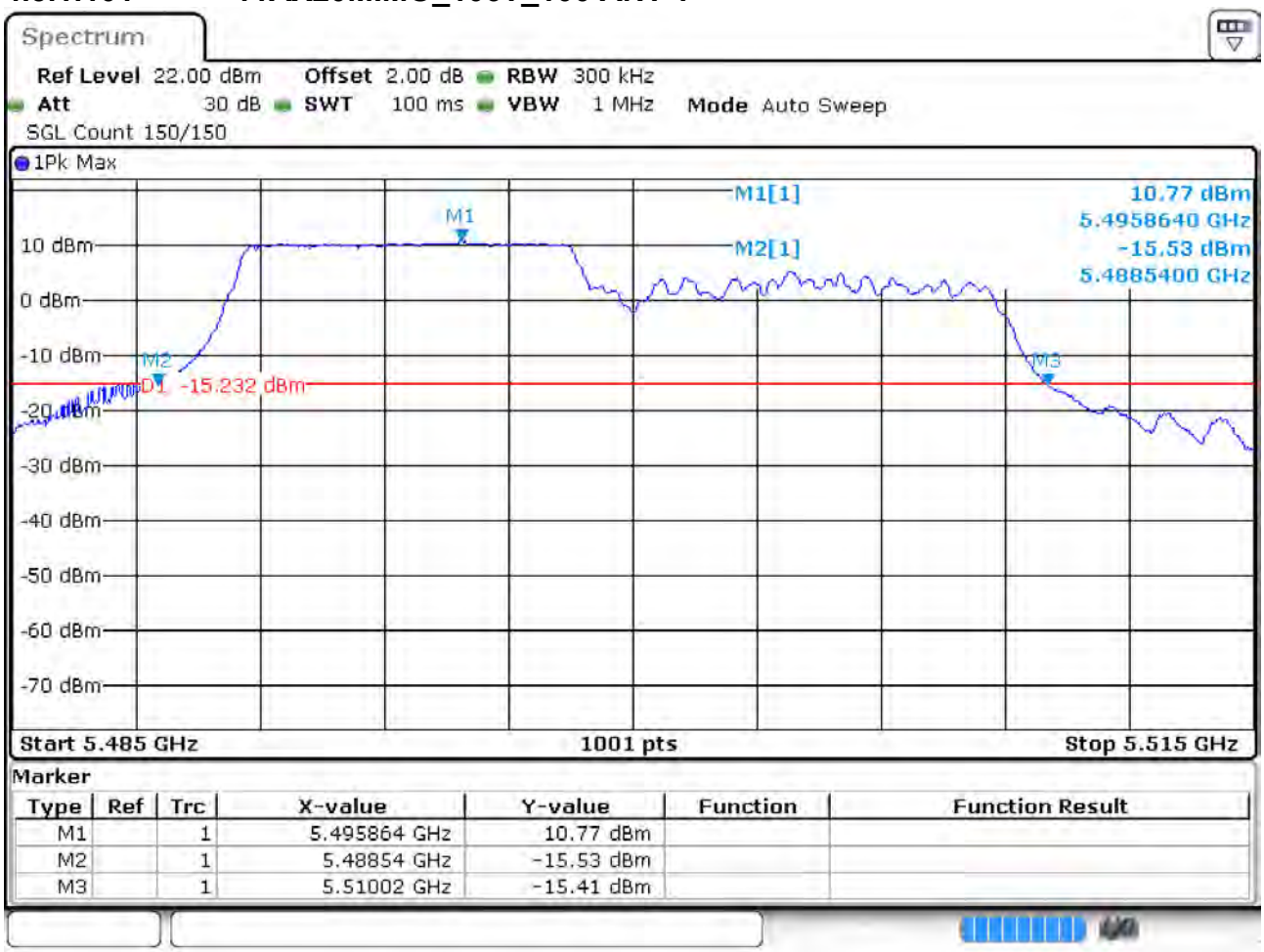
4.5.1.101 11AX20MIMO_106T_100 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.495864 GHz	10.77 dBm		
M2		1	5.48854 GHz	-15.53 dBm		
M3		1	5.51002 GHz	-15.41 dBm		

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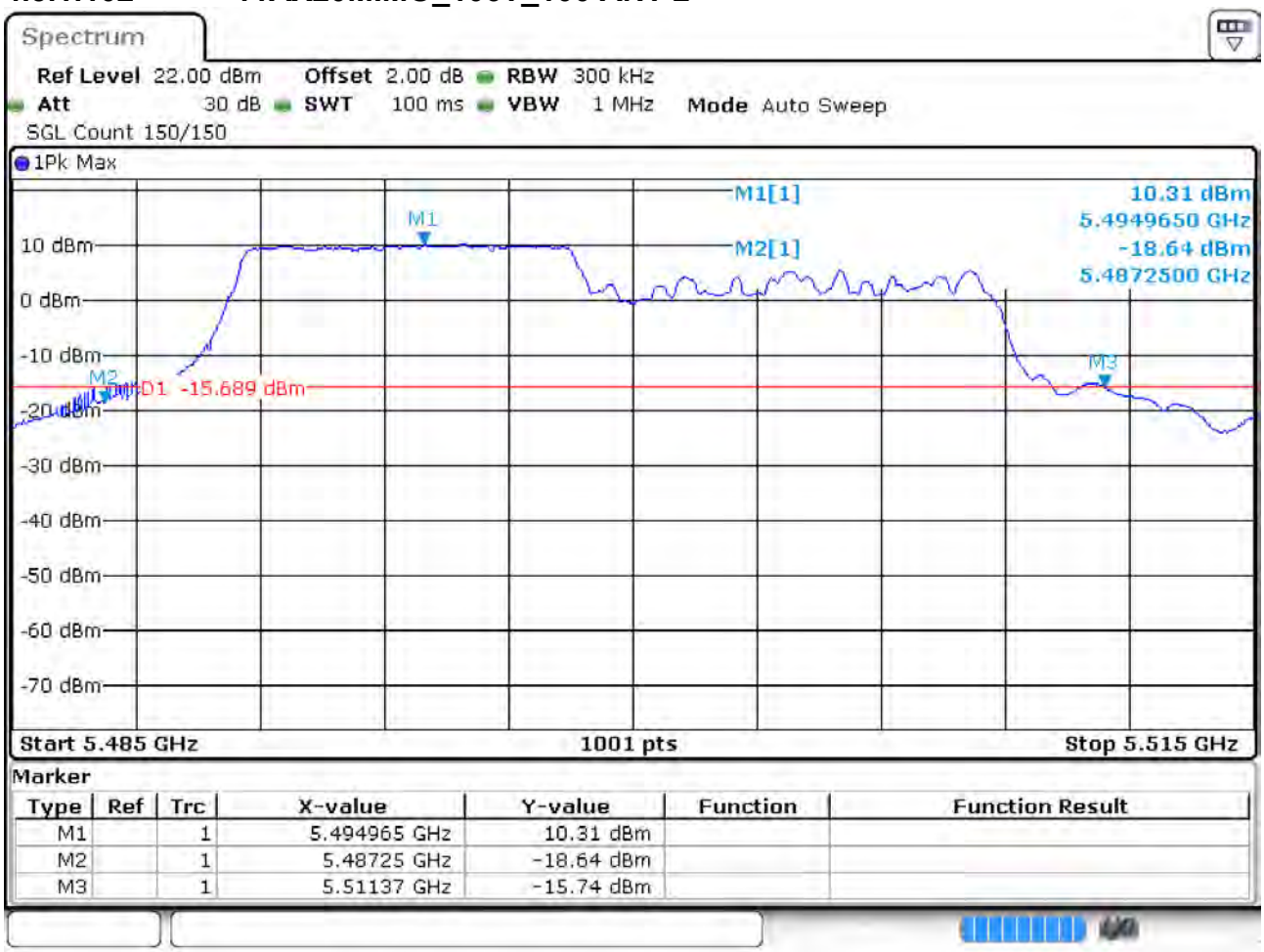
4.5.1.102 11AX20MIMO_106T_100 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.494965 GHz	10.31 dBm		
M2		1	5.48725 GHz	-18.64 dBm		
M3		1	5.51137 GHz	-15.74 dBm		

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4.5.1.103 11AX20MIMO_106T_140 ANT 1

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.694995 GHz	10.98 dBm		
M2		1	5.68857 GHz	-15.05 dBm		
M3		1	5.70996 GHz	-15.10 dBm		

Date: 11.APR.2020 09:23:14

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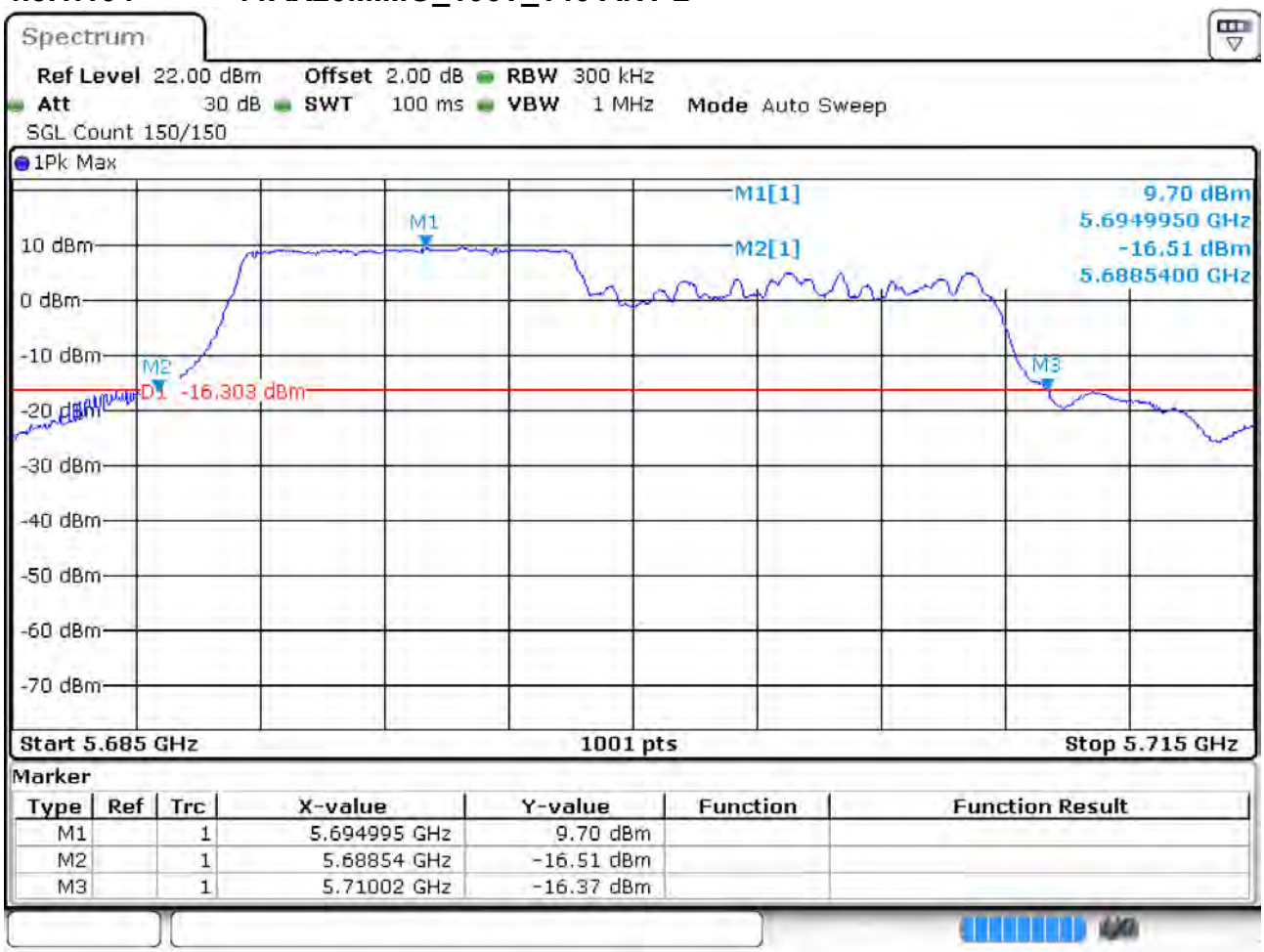
4.5.1.104 11AX20MIMO_106T_140 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.694995 GHz	9.70 dBm		
M2		1	5.68854 GHz	-16.51 dBm		
M3		1	5.71002 GHz	-16.37 dBm		

Date: 11.APR.2020 10:33:29

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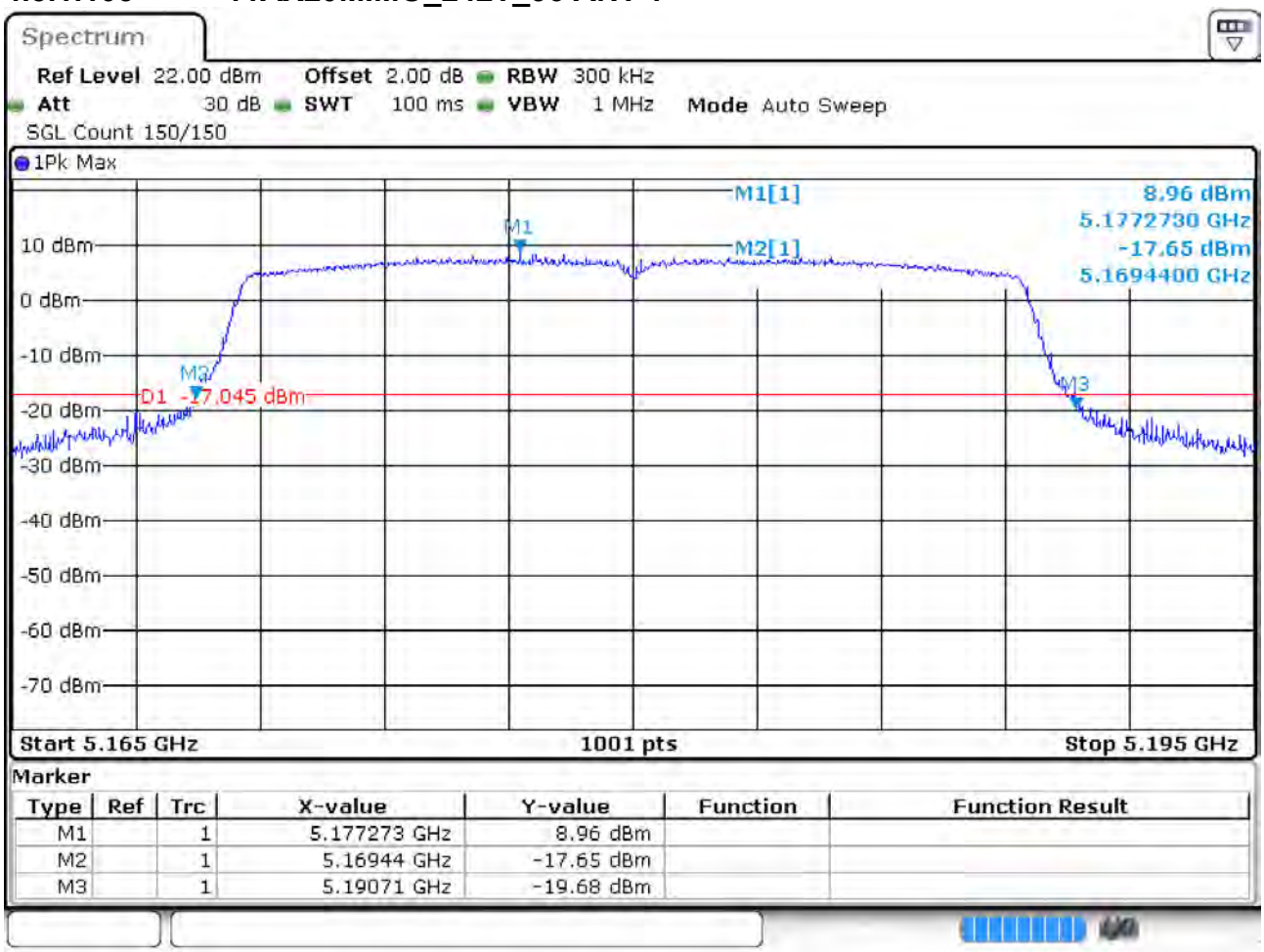
4.5.1.105 11AX20MIMO_242T_36 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.177273 GHz	8.96 dBm		
M2		1	5.16944 GHz	-17.65 dBm		
M3		1	5.19071 GHz	-19.68 dBm		

Date: 14.APR.2020 04:15:58

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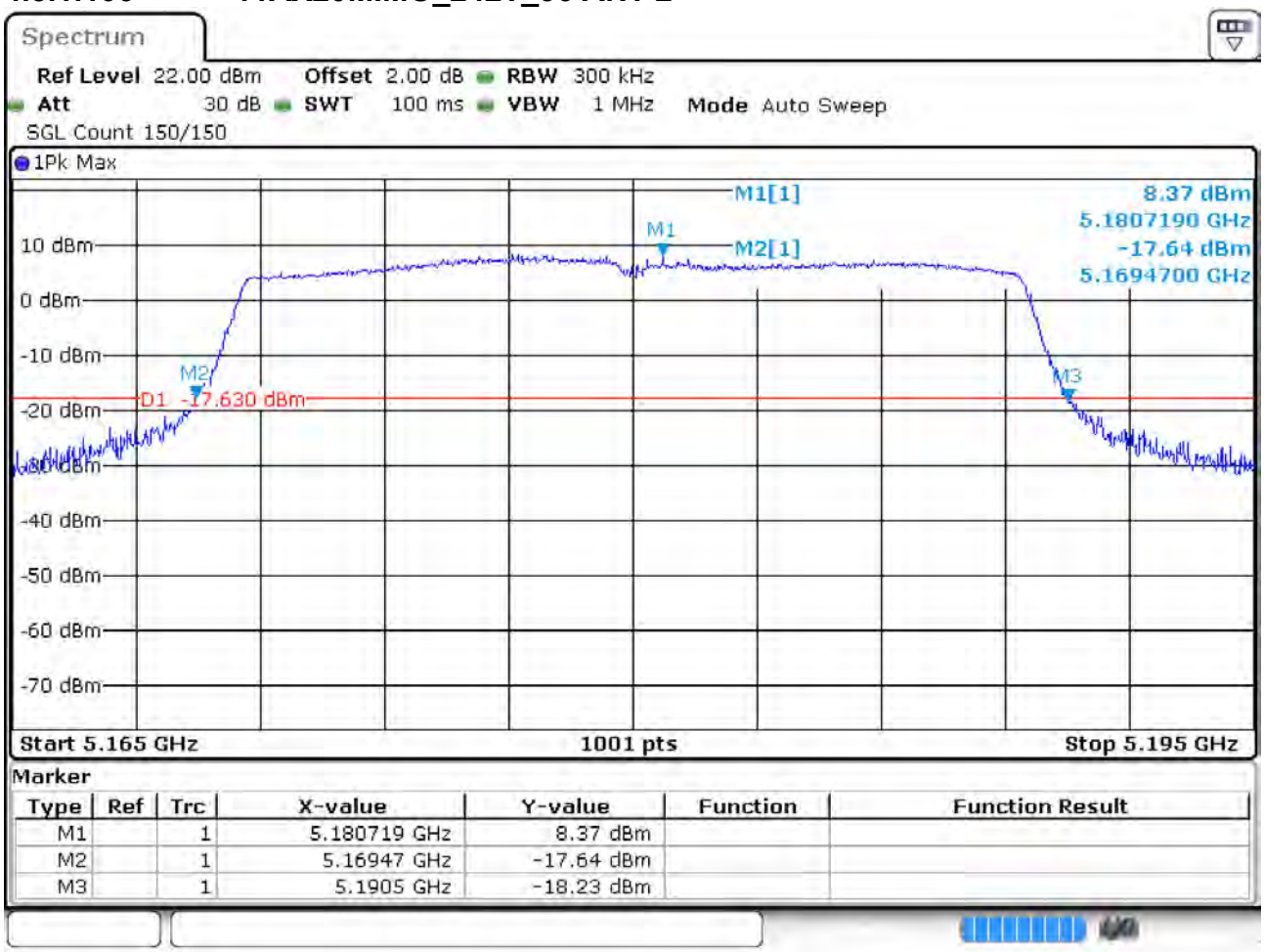
4.5.1.106 11AX20MIMO_242T_36 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.180719 GHz	8.37 dBm		
M2		1	5.16947 GHz	-17.64 dBm		
M3		1	5.1905 GHz	-18.23 dBm		

Date: 14.APR.2020 06:32:30

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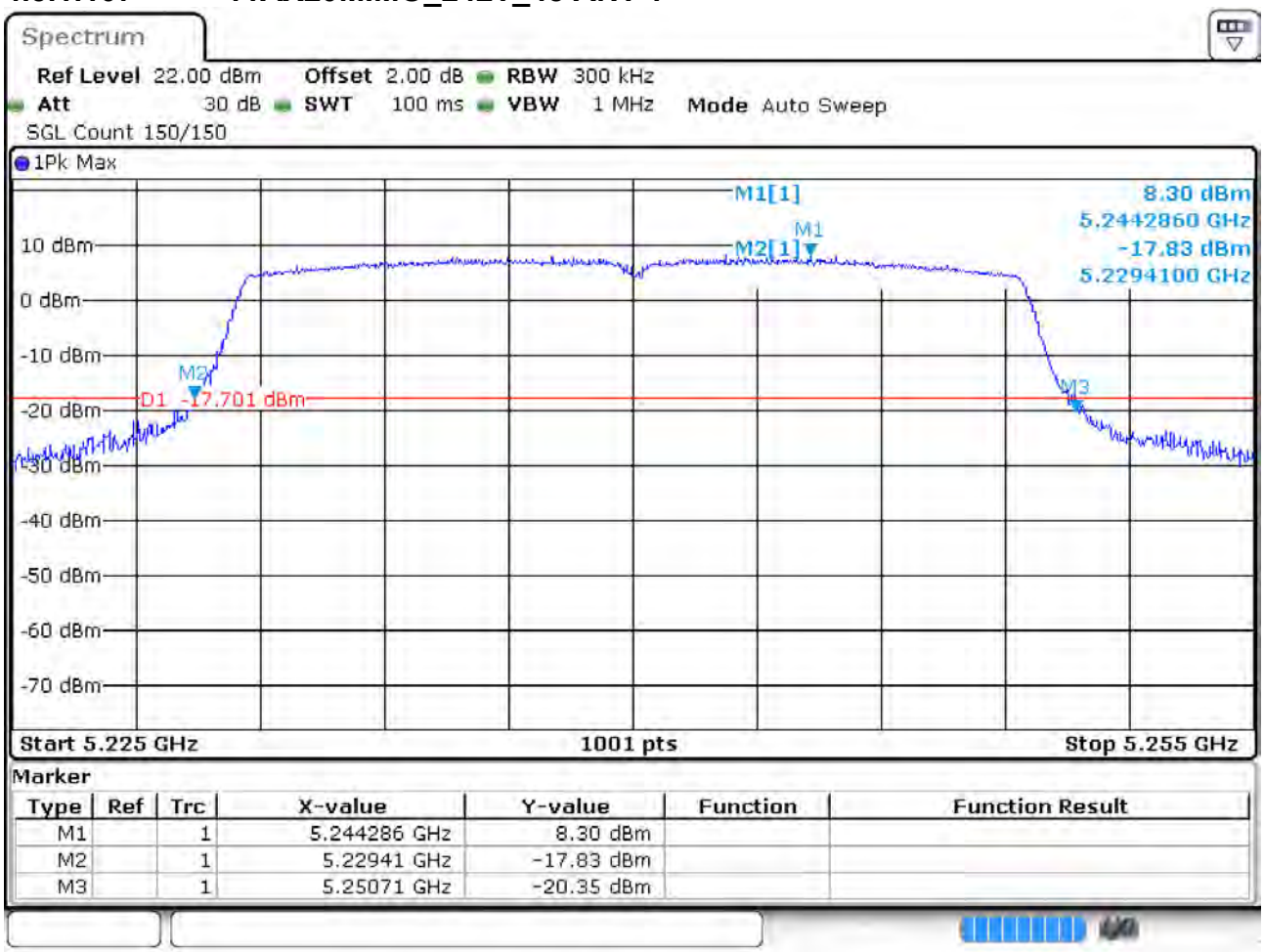
4.5.1.107 11AX20MIMO_242T_48 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.244286 GHz	8.30 dBm		
M2		1	5.22941 GHz	-17.83 dBm		
M3		1	5.25071 GHz	-20.35 dBm		

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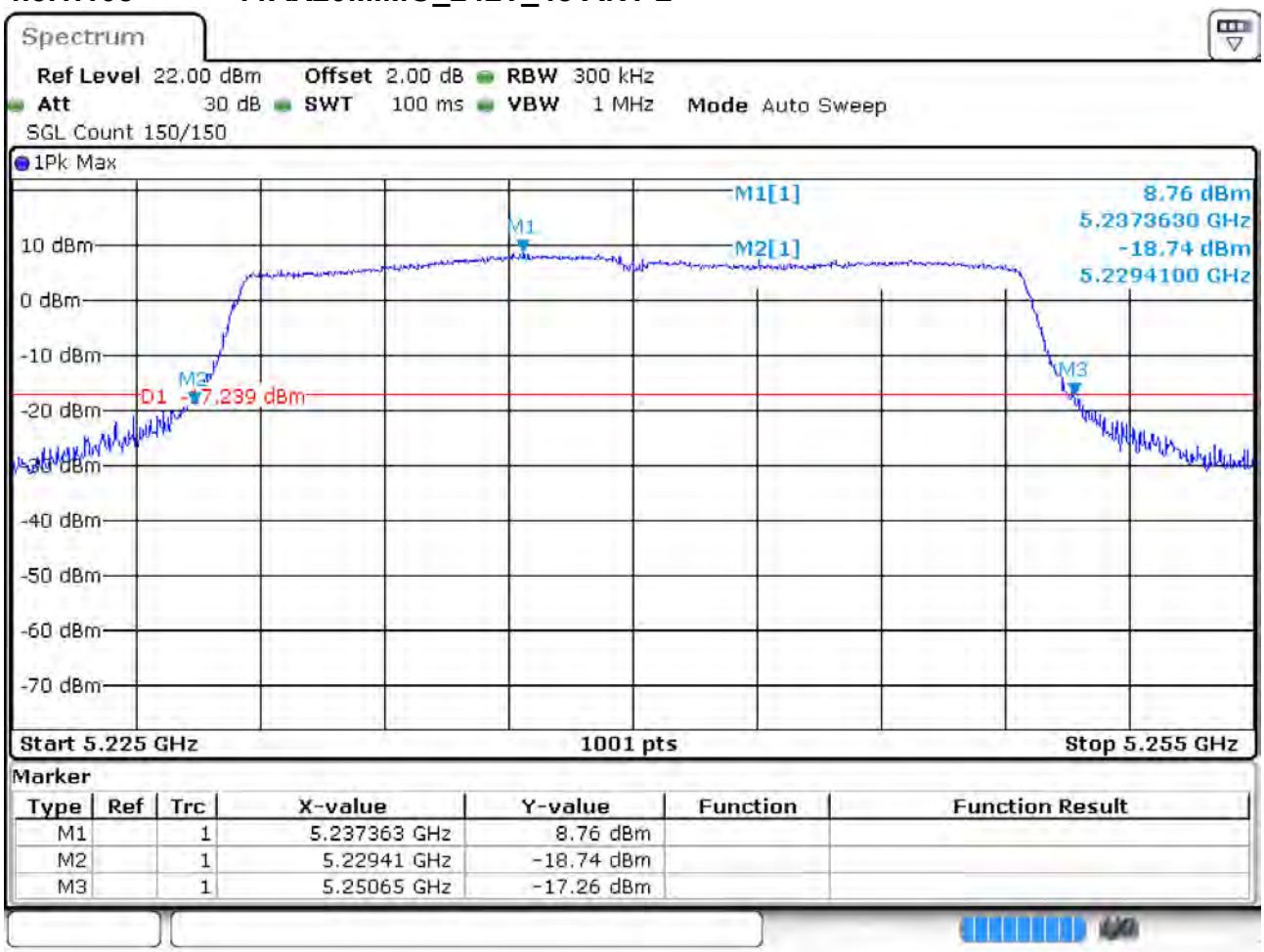
4.5.1.108 11AX20MIMO_242T_48 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.237363 GHz	8.76 dBm		
M2		1	5.22941 GHz	-18.74 dBm		
M3		1	5.25065 GHz	-17.26 dBm		

Date: 14.APR.2020 06:38:13

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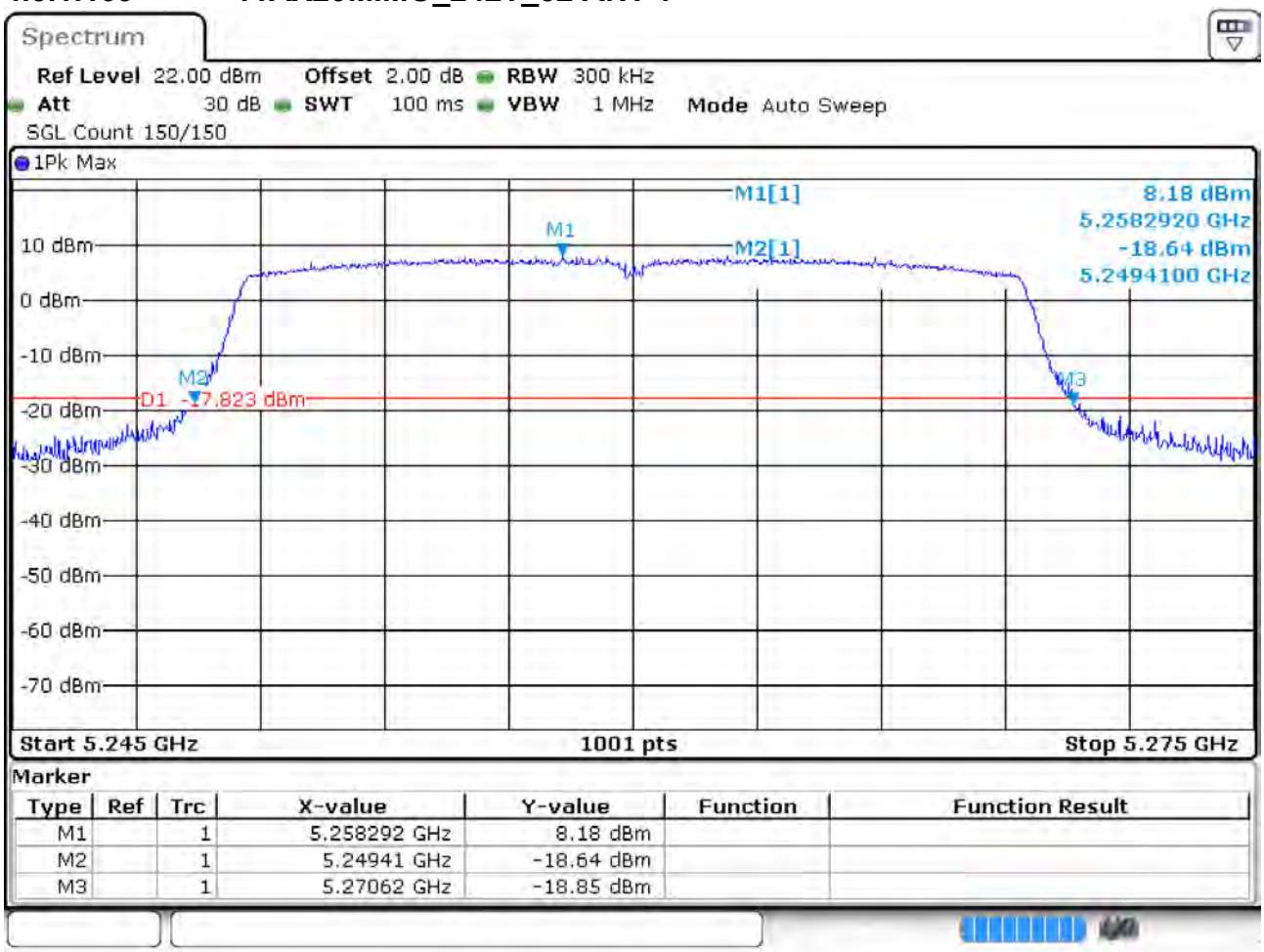
4.5.1.109 11AX20MIMO_242T_52 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.258292 GHz	8.18 dBm		
M2		1	5.24941 GHz	-18.64 dBm		
M3		1	5.27062 GHz	-18.85 dBm		

Date: 14.APR.2020 04:53:43

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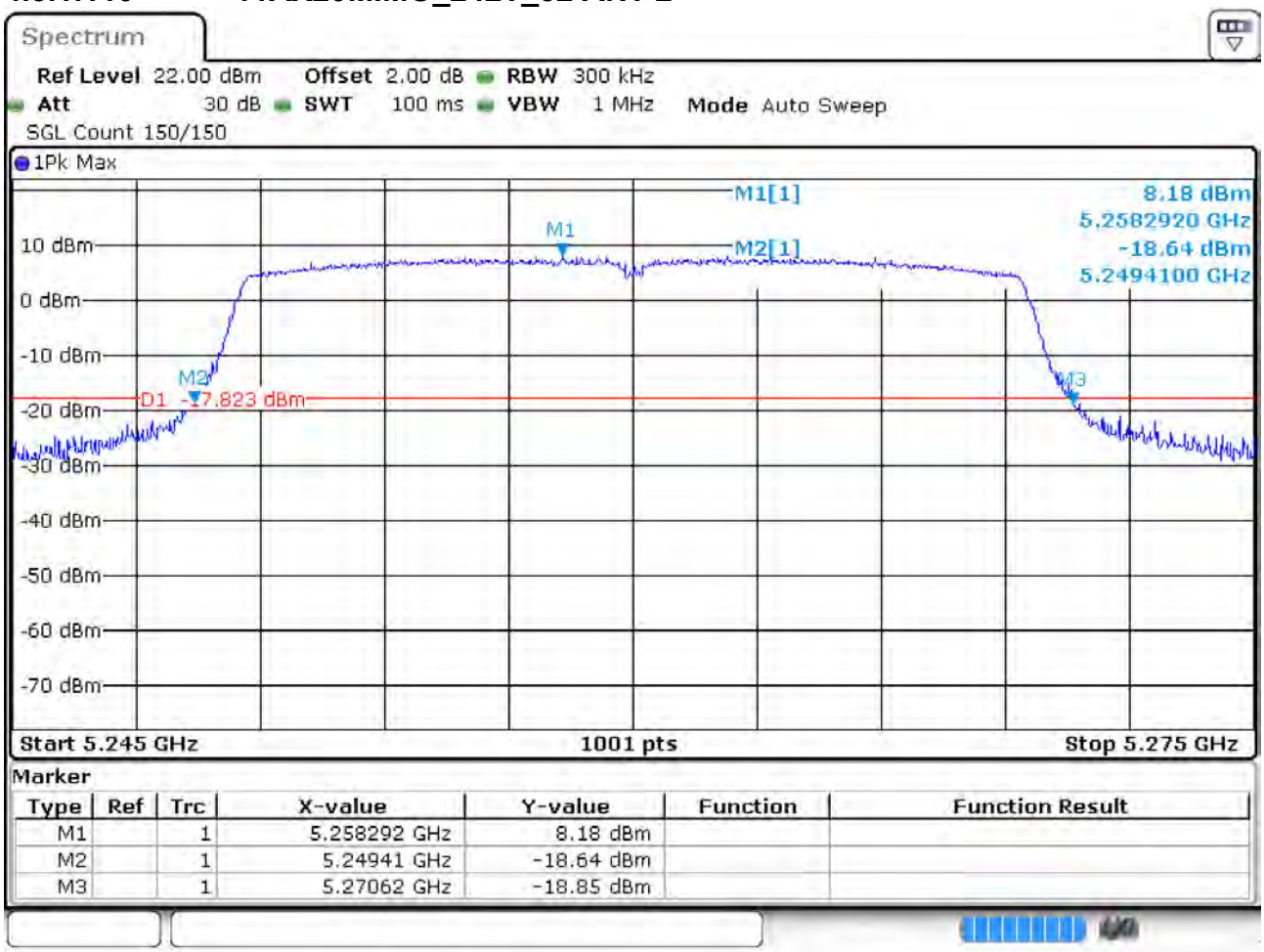
4.5.1.110 11AX20MIMO_242T_52 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.258292 GHz	8.18 dBm		
M2		1	5.24941 GHz	-18.64 dBm		
M3		1	5.27062 GHz	-18.85 dBm		

Date: 14.APR.2020 04:53:43

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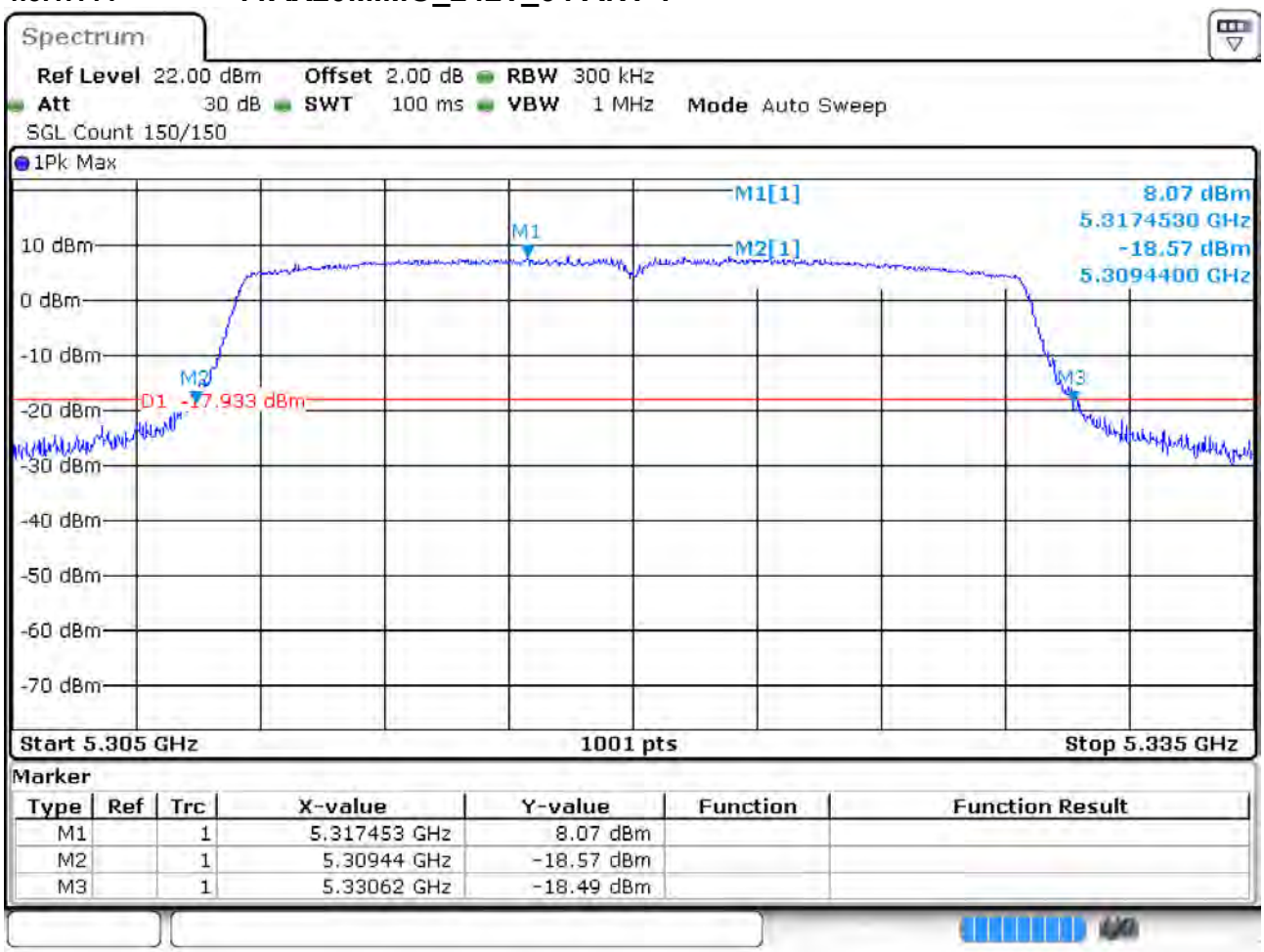
4.5.1.111 11AX20MIMO_242T_64 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.317453 GHz	8.07 dBm		
M2		1	5.30944 GHz	-18.57 dBm		
M3		1	5.33062 GHz	-18.49 dBm		

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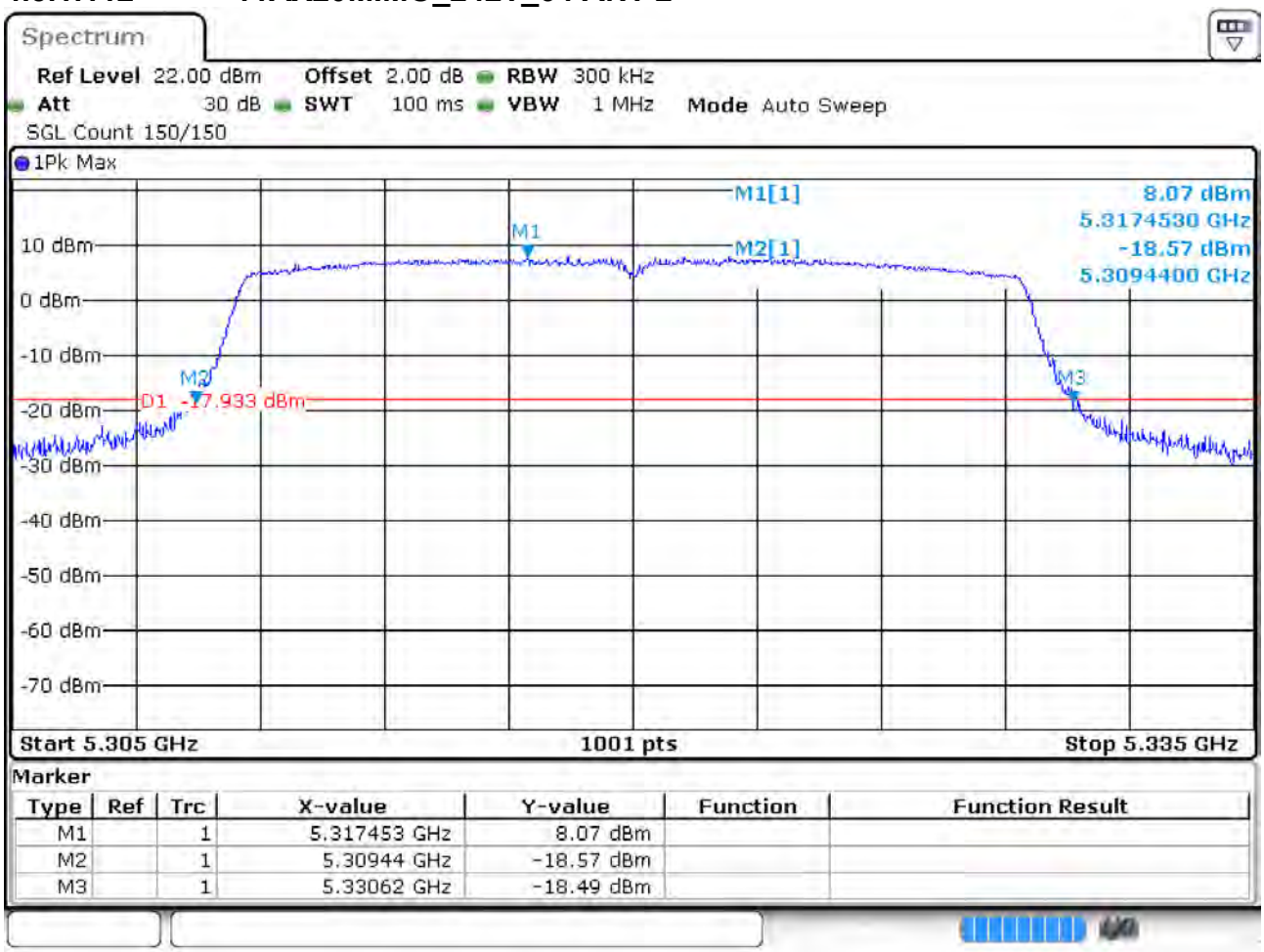
4.5.1.112 11AX20MIMO_242T_64 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.317453 GHz	8.07 dBm		
M2		1	5.30944 GHz	-18.57 dBm		
M3		1	5.33062 GHz	-18.49 dBm		

Date: 14.APR.2020 04:56:39

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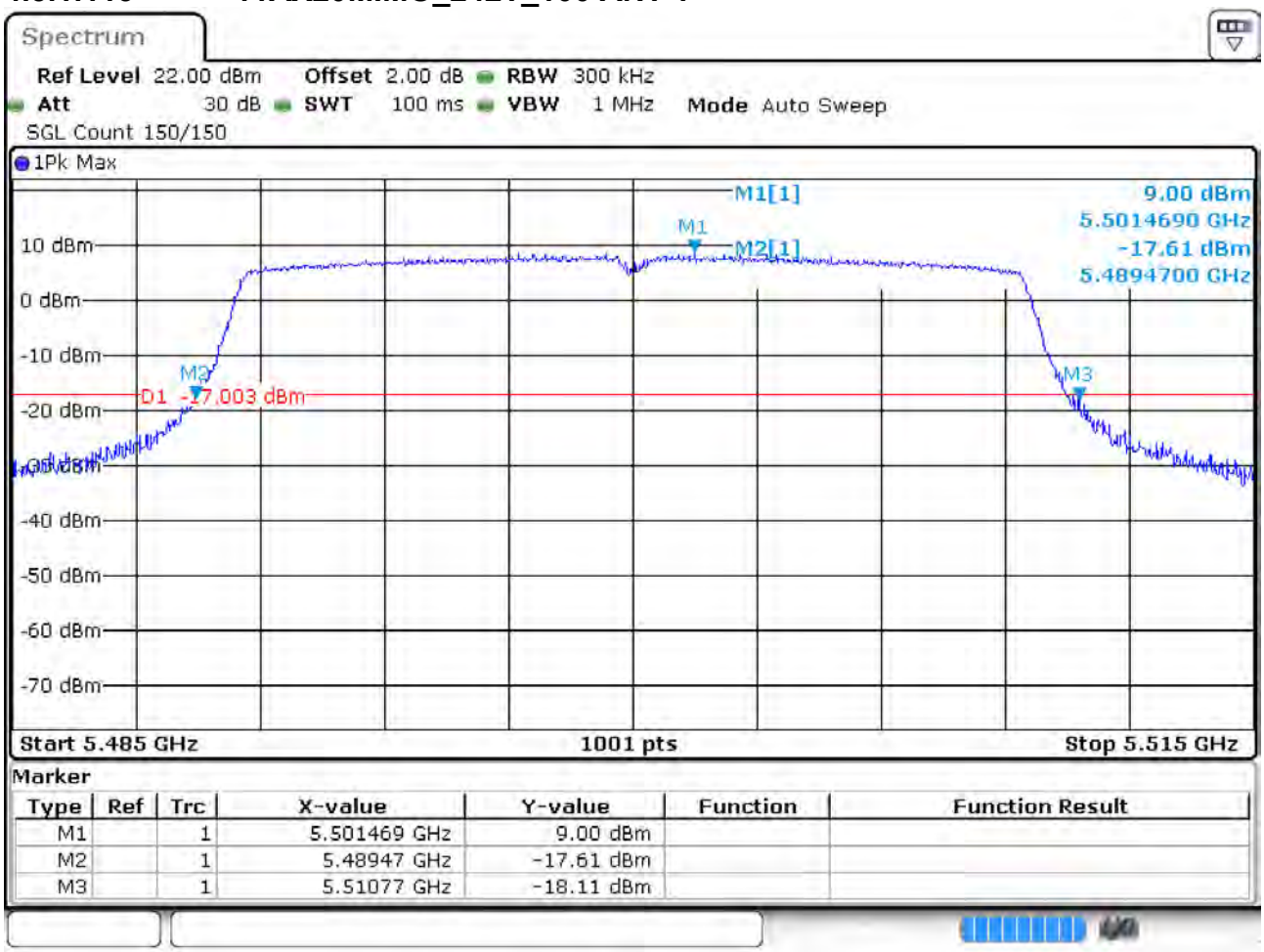
4.5.1.113 11AX20MIMO_242T_100 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.501469 GHz	9.00 dBm		
M2		1	5.48947 GHz	-17.61 dBm		
M3		1	5.51077 GHz	-18.11 dBm		

Date: 14.APR.2020 04:58:13

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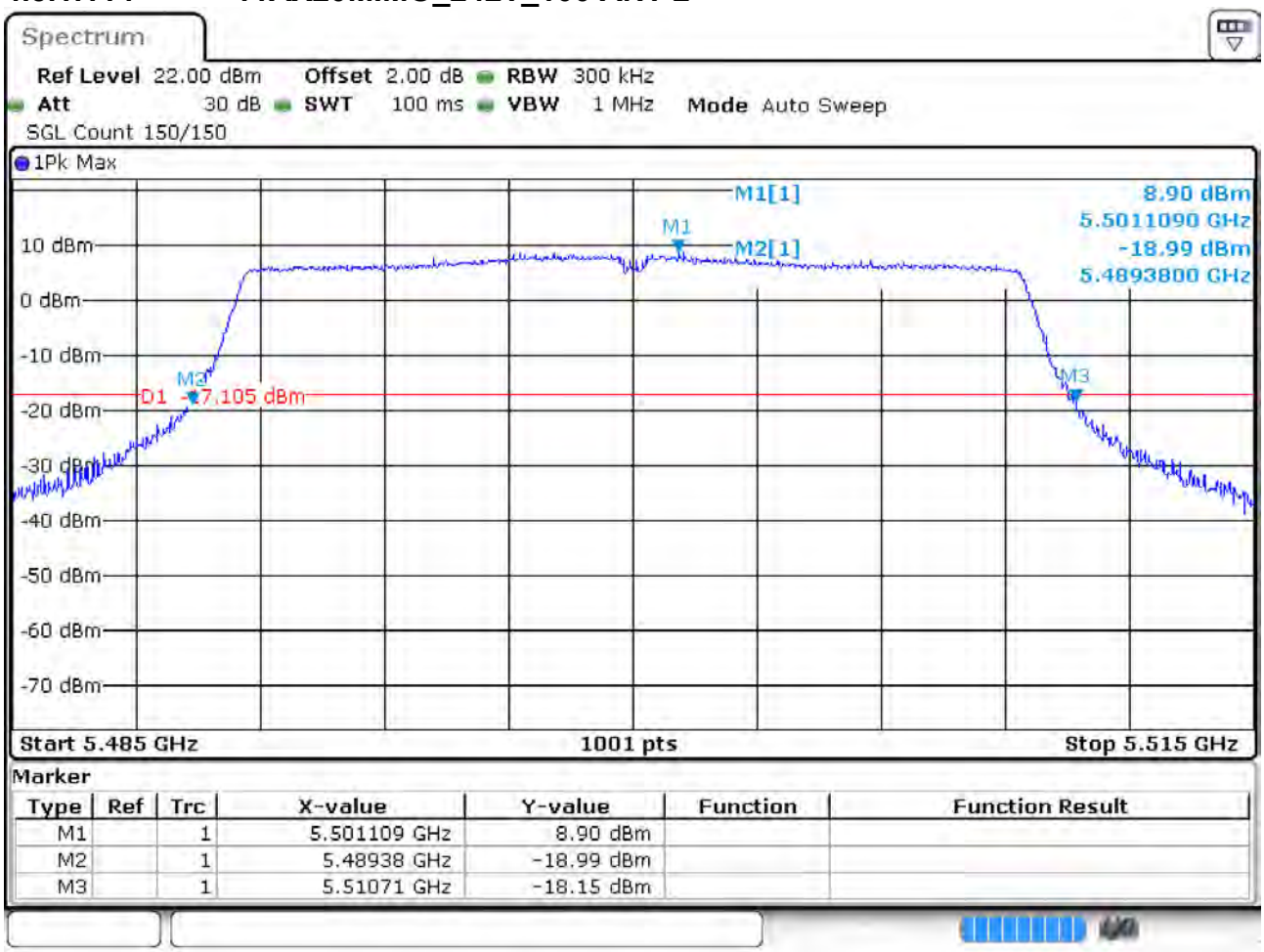
4.5.1.114 11AX20MIMO_242T_100 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.501109 GHz	8.90 dBm		
M2		1	5.48938 GHz	-18.99 dBm		
M3		1	5.51071 GHz	-18.15 dBm		

Date: 14.APR.2020 05:16:42

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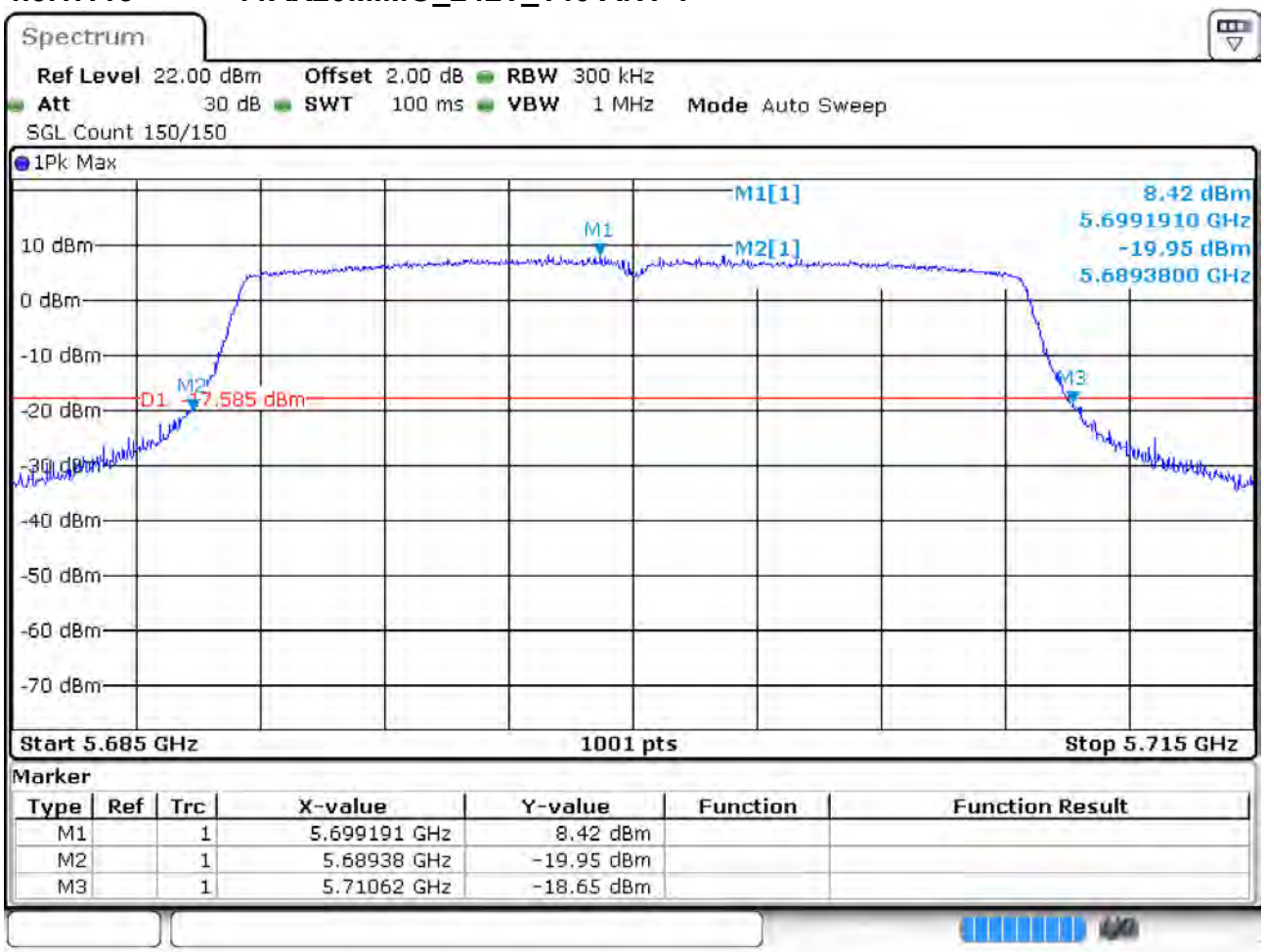
4.5.1.115 11AX20MIMO_242T_140 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.699191 GHz	8.42 dBm		
M2		1	5.68938 GHz	-19.95 dBm		
M3		1	5.71062 GHz	-18.65 dBm		

Date: 14.APR.2020 05:00:07

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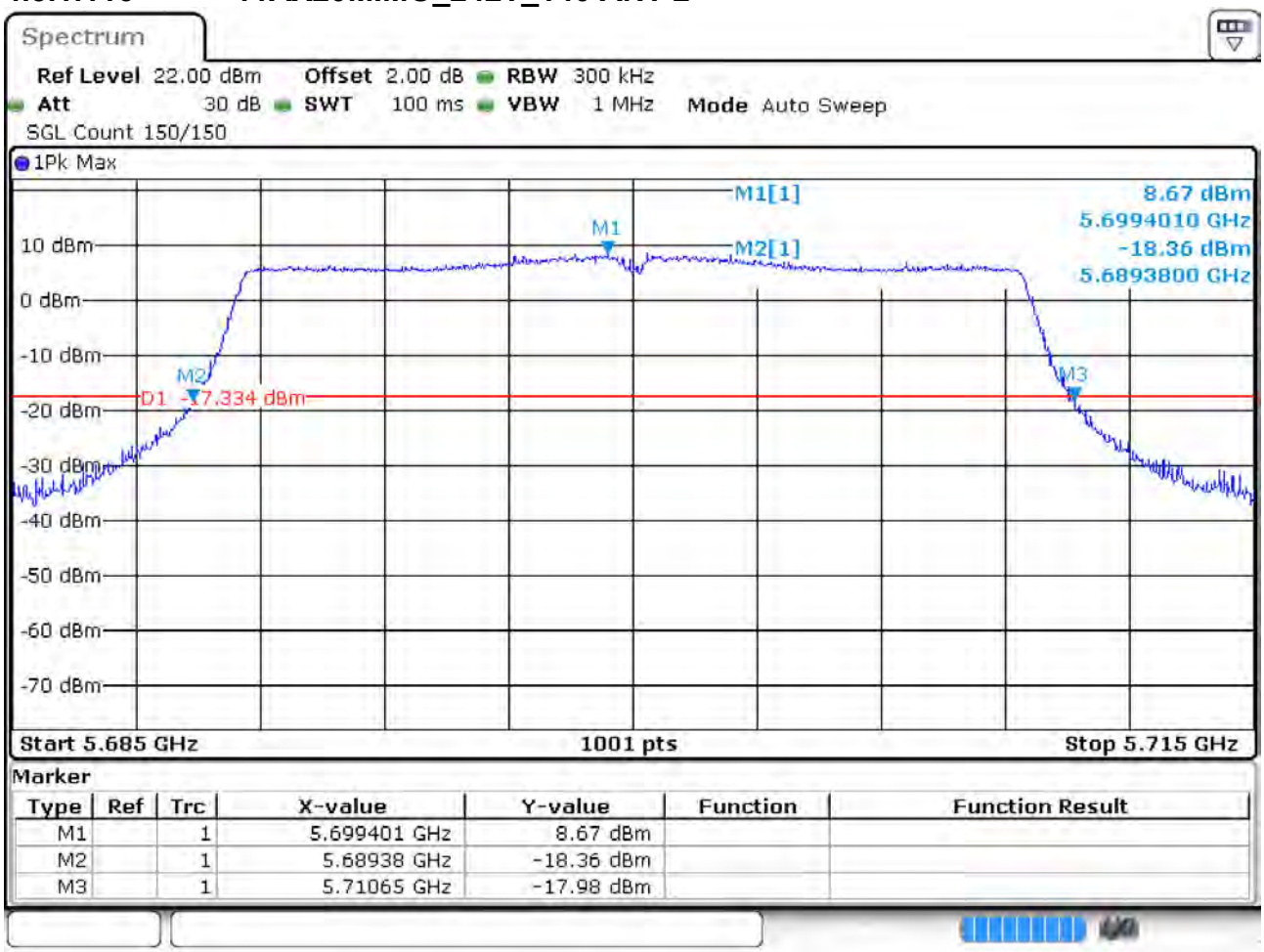
4.5.1.116 11AX20MIMO_242T_140 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.699401 GHz	8.67 dBm		
M2		1	5.68938 GHz	-18.36 dBm		
M3		1	5.71065 GHz	-17.98 dBm		

Date: 14.APR.2020 05:18:25

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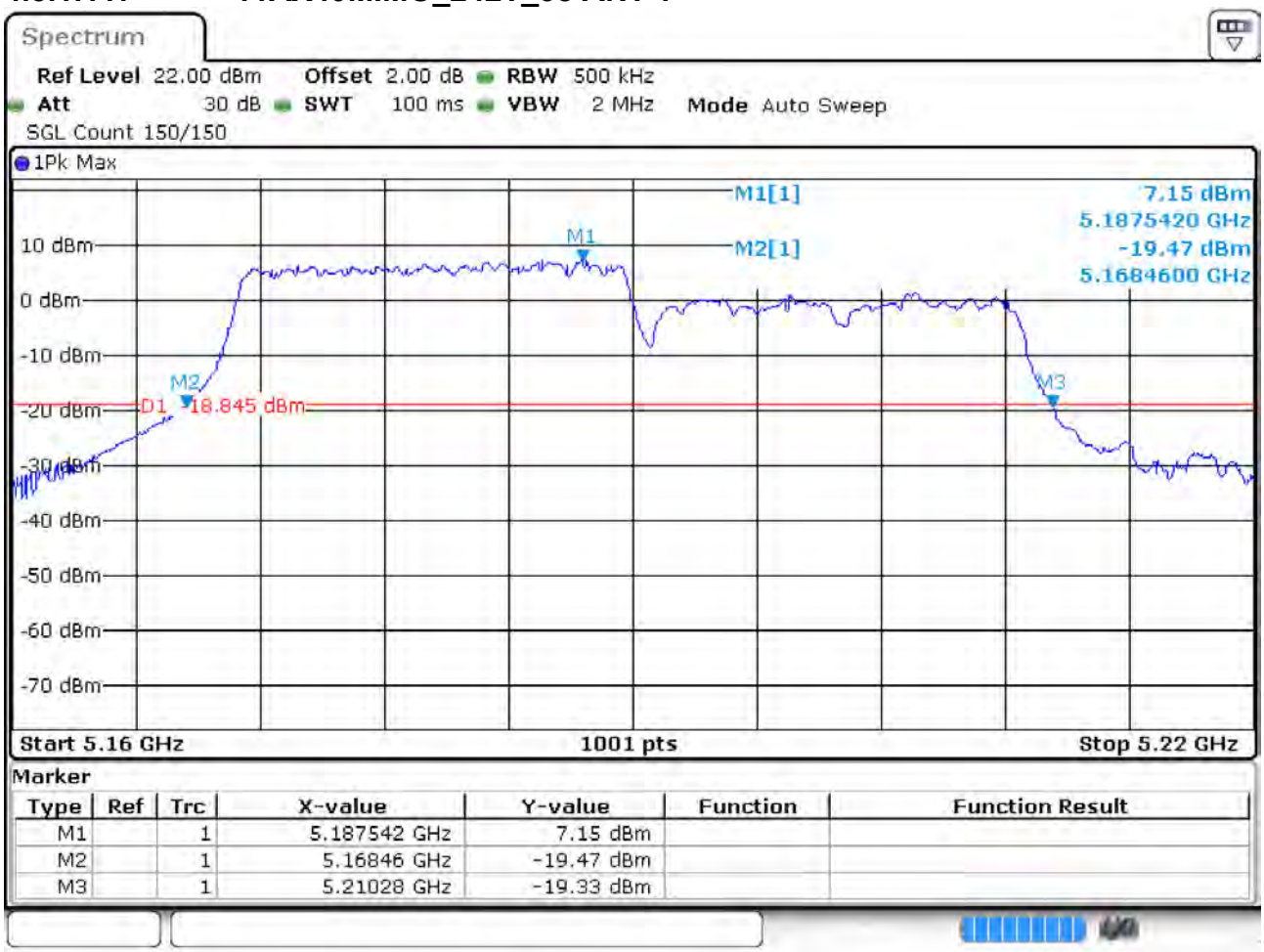
4.5.1.117 11AX40MIMO_242T_38 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.187542 GHz	7.15 dBm		
M2		1	5.16846 GHz	-19.47 dBm		
M3		1	5.21028 GHz	-19.33 dBm		

Date: 11.APR.2020 10:47:31

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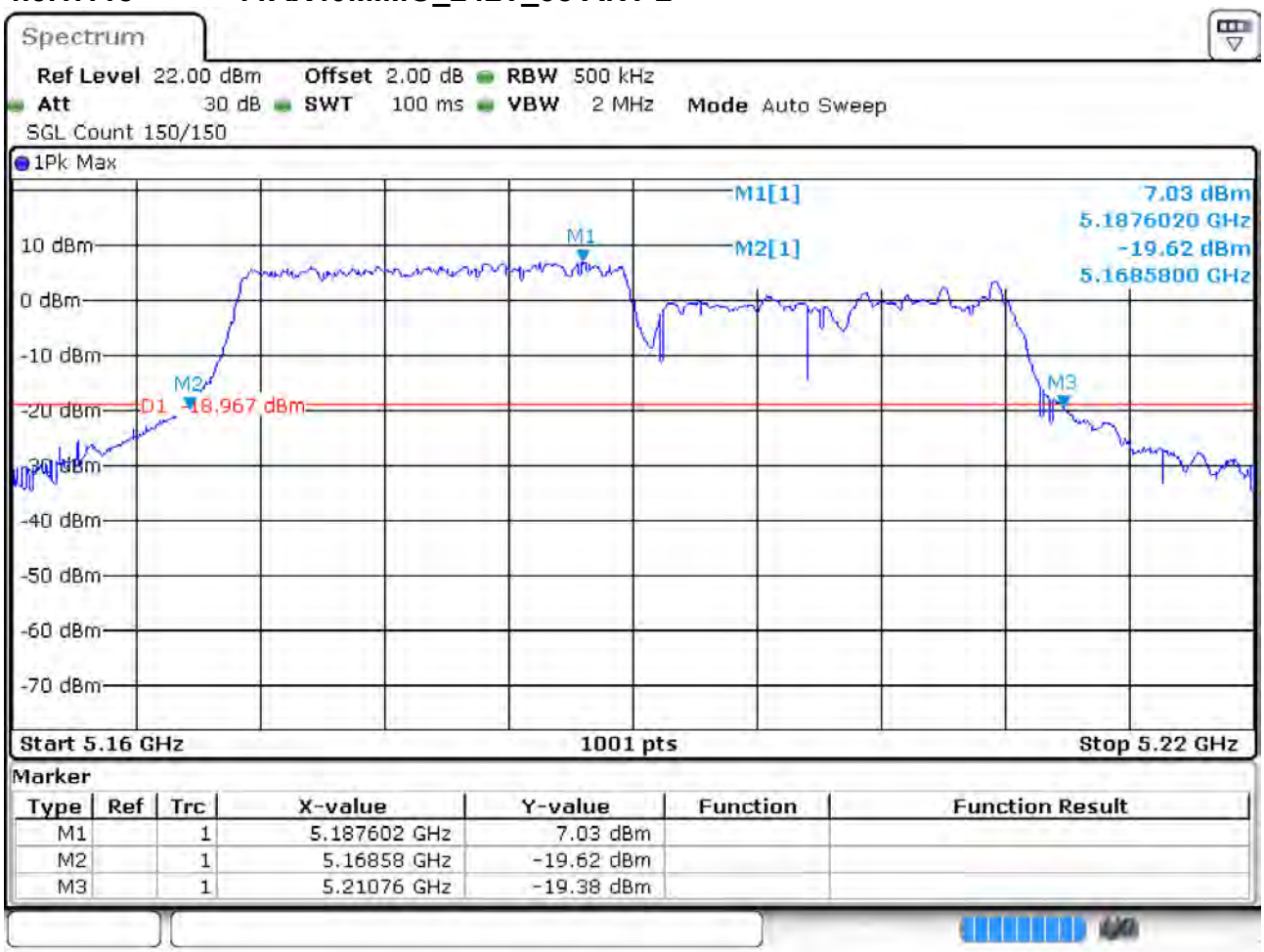
4.5.1.118 11AX40MIMO_242T_38 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.187602 GHz	7.03 dBm		
M2		1	5.16858 GHz	-19.62 dBm		
M3		1	5.21076 GHz	-19.38 dBm		

Date: 11.APR.2020 11:24:54

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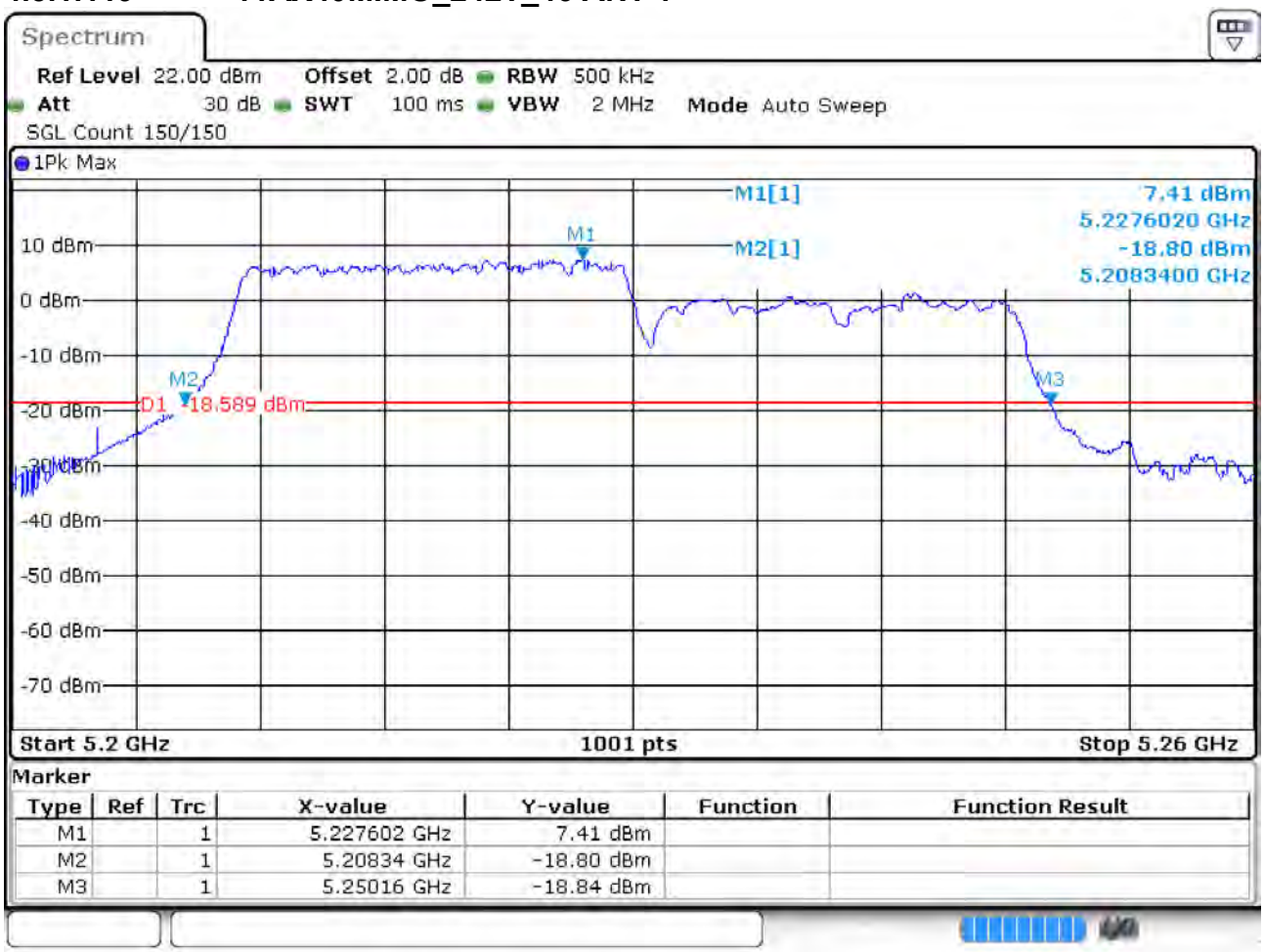
4.5.1.119 11AX40MIMO_242T_46 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.227602 GHz	7.41 dBm		
M2		1	5.20834 GHz	-18.80 dBm		
M3		1	5.25016 GHz	-18.84 dBm		

Date: 11.APR.2020 10:50:13

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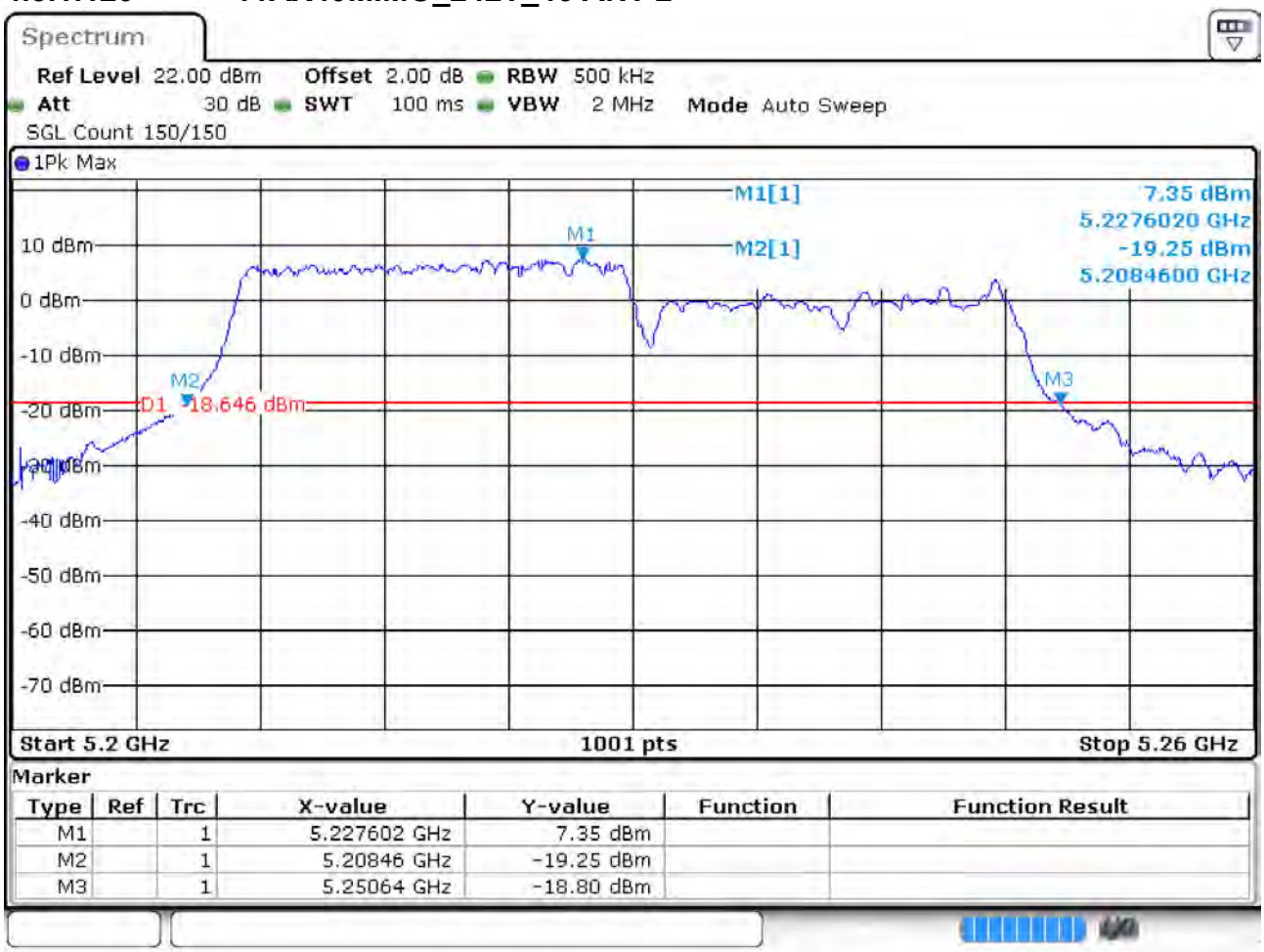
4.5.1.120 11AX40MIMO_242T_46 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.227602 GHz	7.35 dBm		
M2		1	5.20846 GHz	-19.25 dBm		
M3		1	5.25064 GHz	-18.80 dBm		

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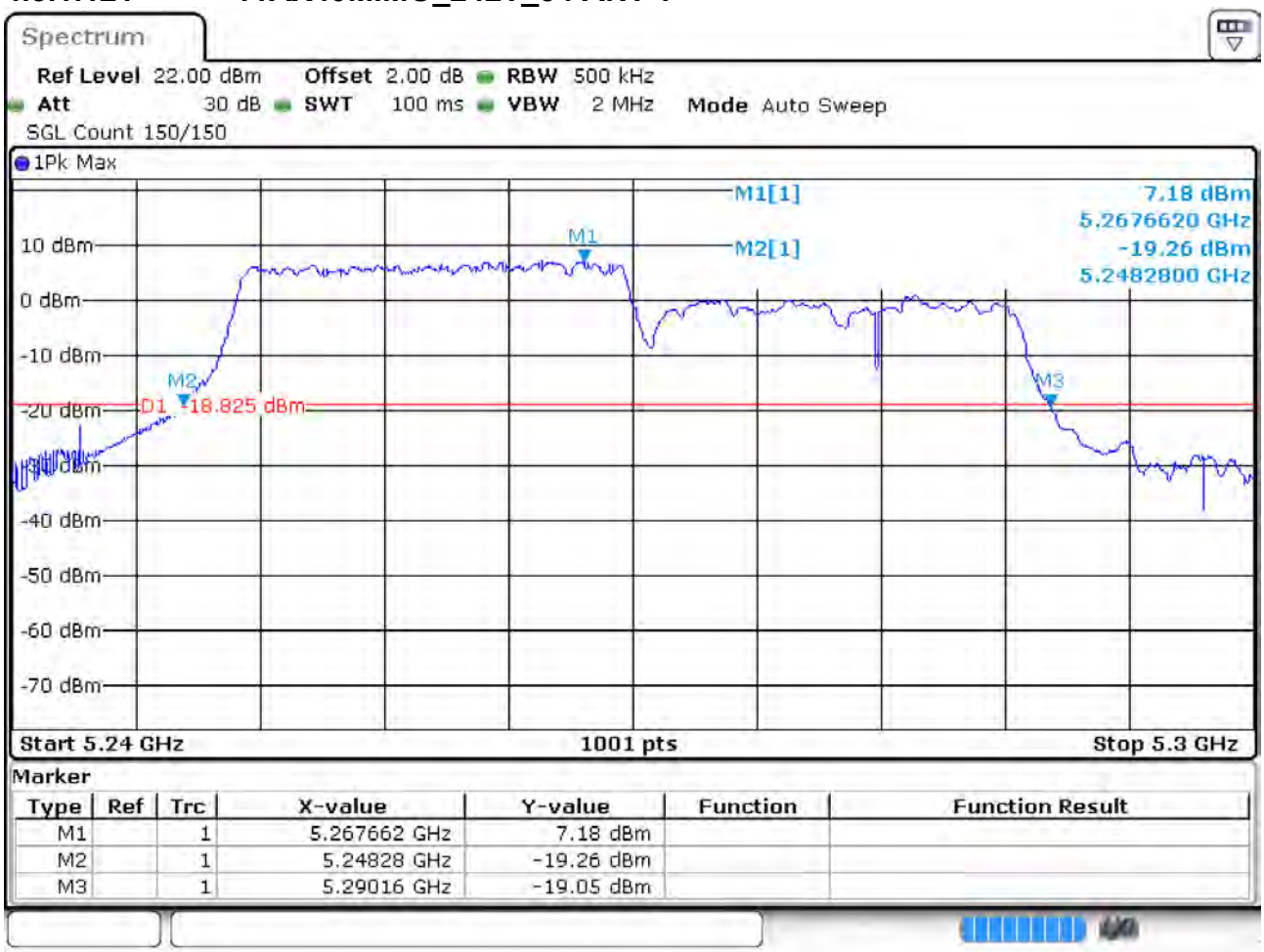
4.5.1.121 11AX40MIMO_242T_54 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.267662 GHz	7.18 dBm		
M2		1	5.24828 GHz	-19.26 dBm		
M3		1	5.29016 GHz	-19.05 dBm		

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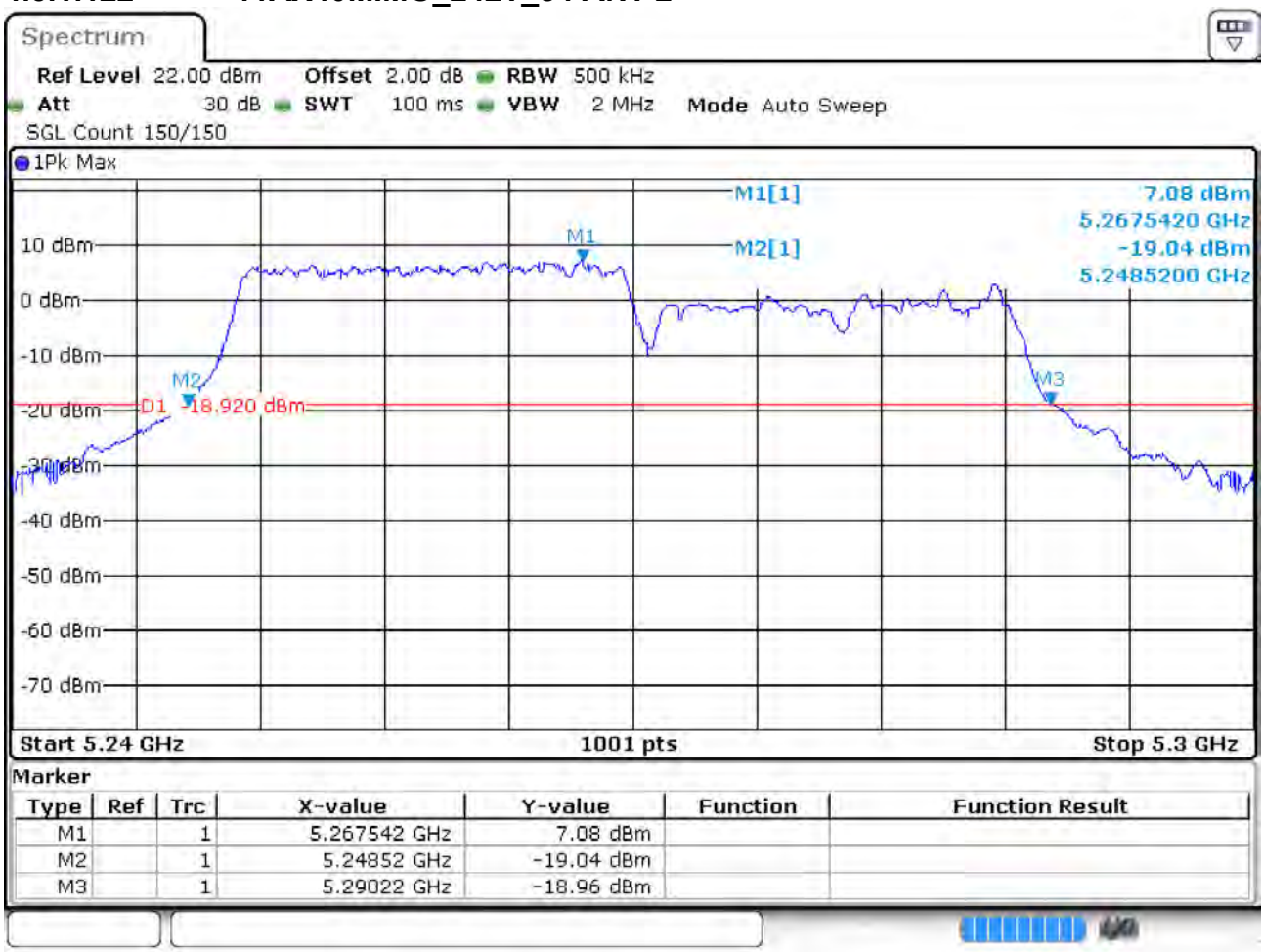
4.5.1.122 11AX40MIMO_242T_54 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.267542 GHz	7.08 dBm		
M2		1	5.24852 GHz	-19.04 dBm		
M3		1	5.29022 GHz	-18.96 dBm		

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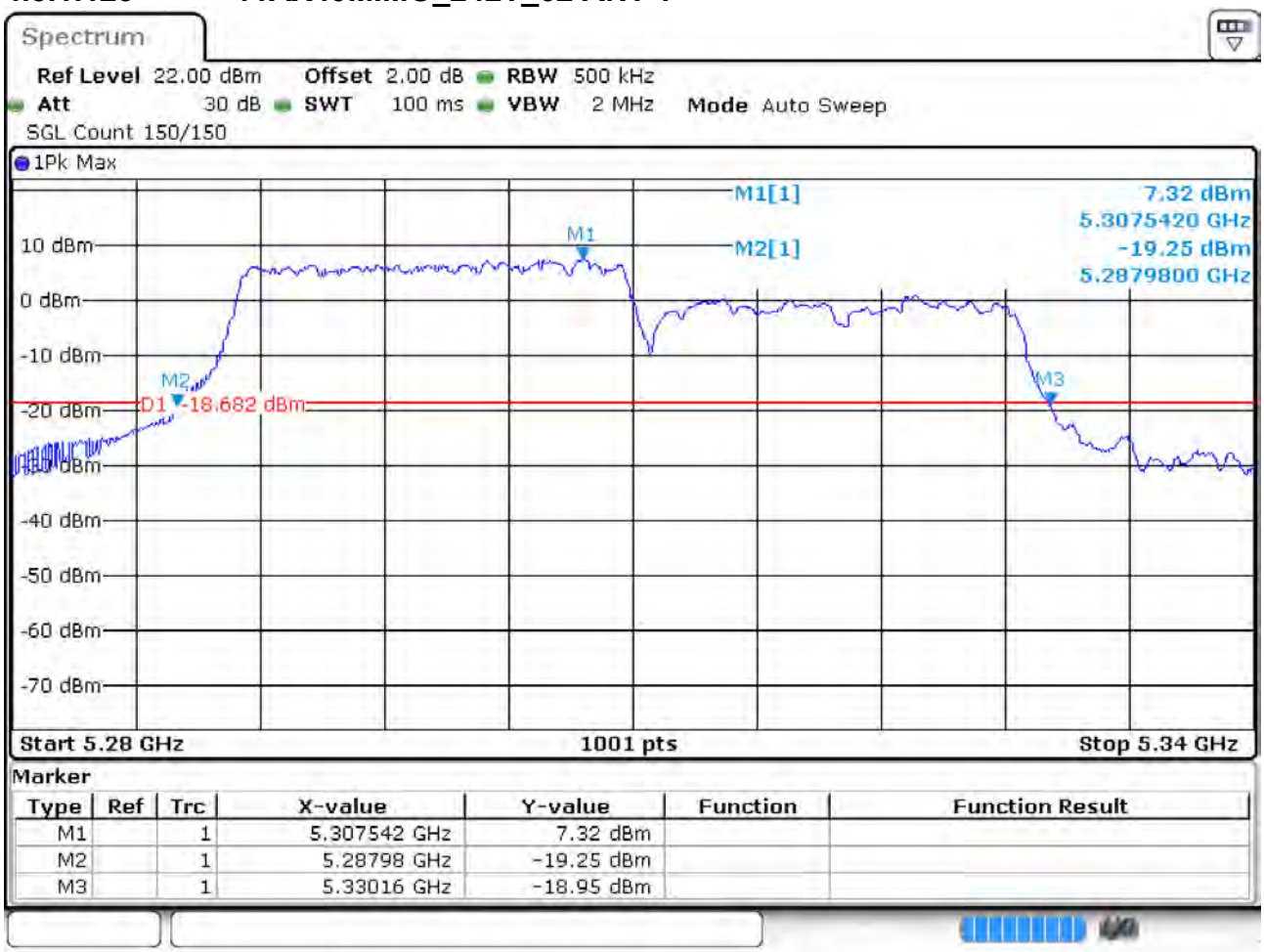
4.5.1.123 11AX40MIMO_242T_62 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.307542 GHz	7.32 dBm		
M2		1	5.28798 GHz	-19.25 dBm		
M3		1	5.33016 GHz	-18.95 dBm		

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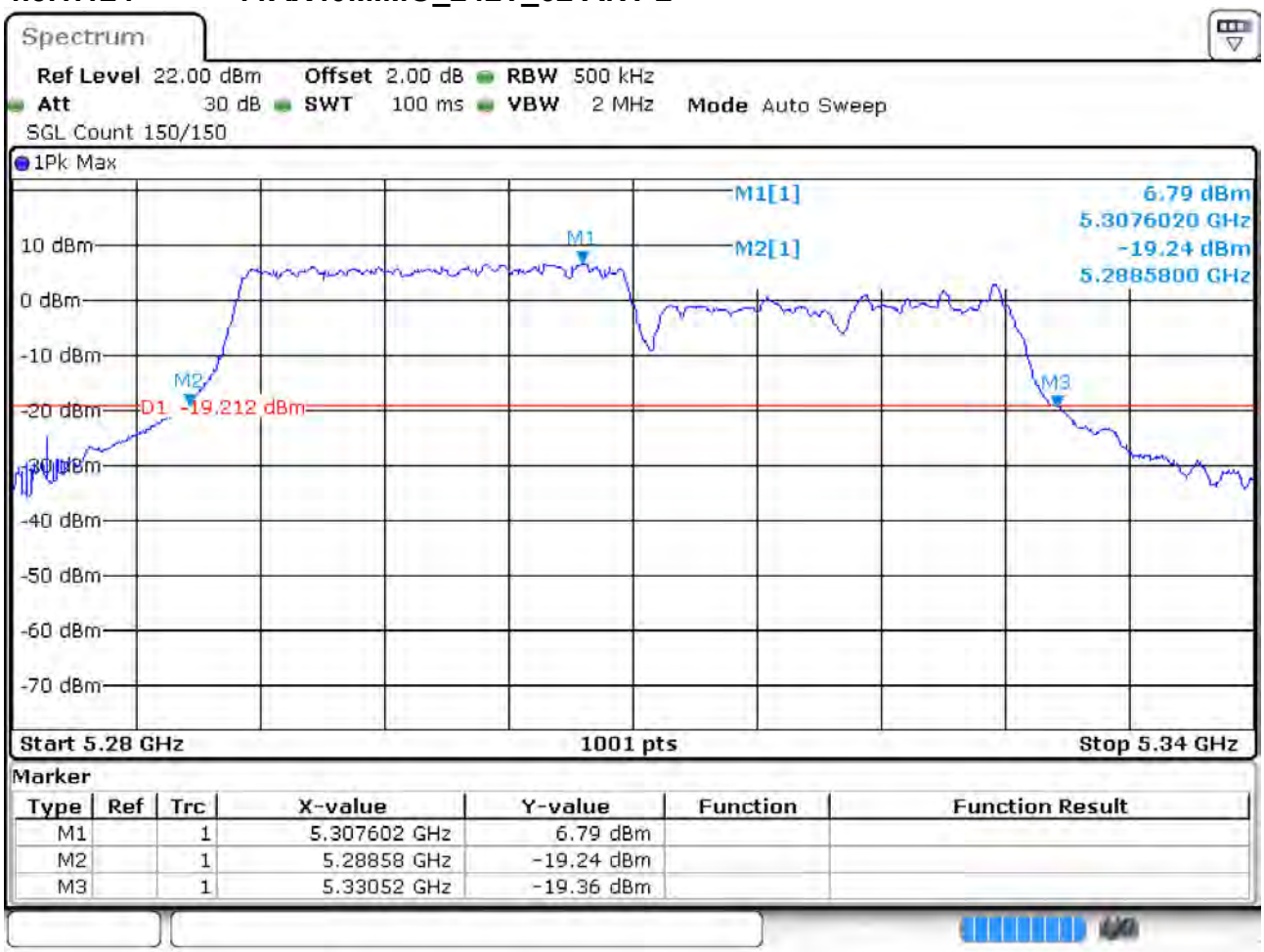
4.5.1.124 11AX40MIMO_242T_62 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.307602 GHz	6.79 dBm		
M2		1	5.28858 GHz	-19.24 dBm		
M3		1	5.33052 GHz	-19.36 dBm		

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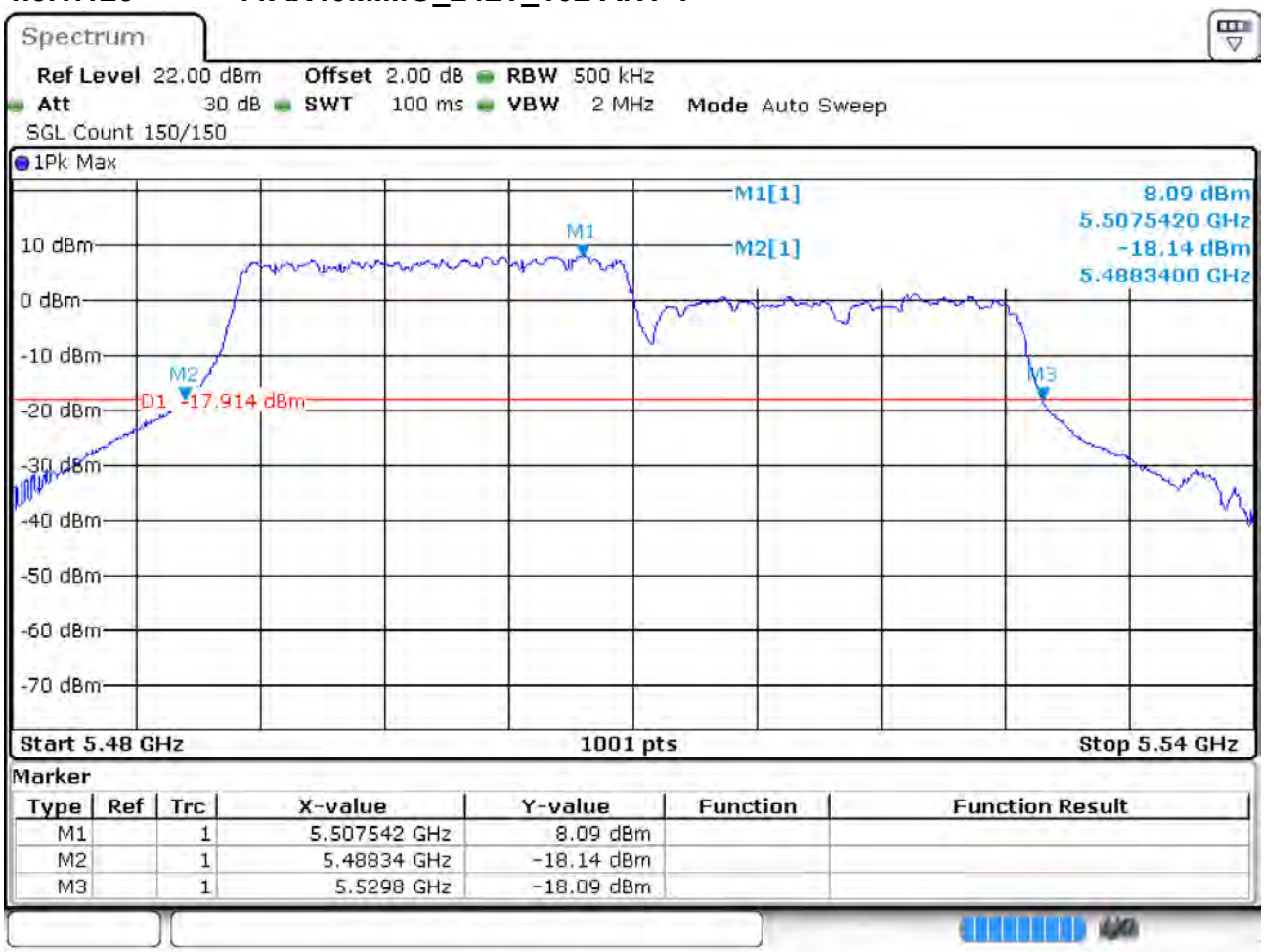
4.5.1.125 11AX40MIMO_242T_102 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.507542 GHz	8.09 dBm		
M2		1	5.48834 GHz	-18.14 dBm		
M3		1	5.5298 GHz	-18.09 dBm		

Date: 11.APR.2020 11:13:05

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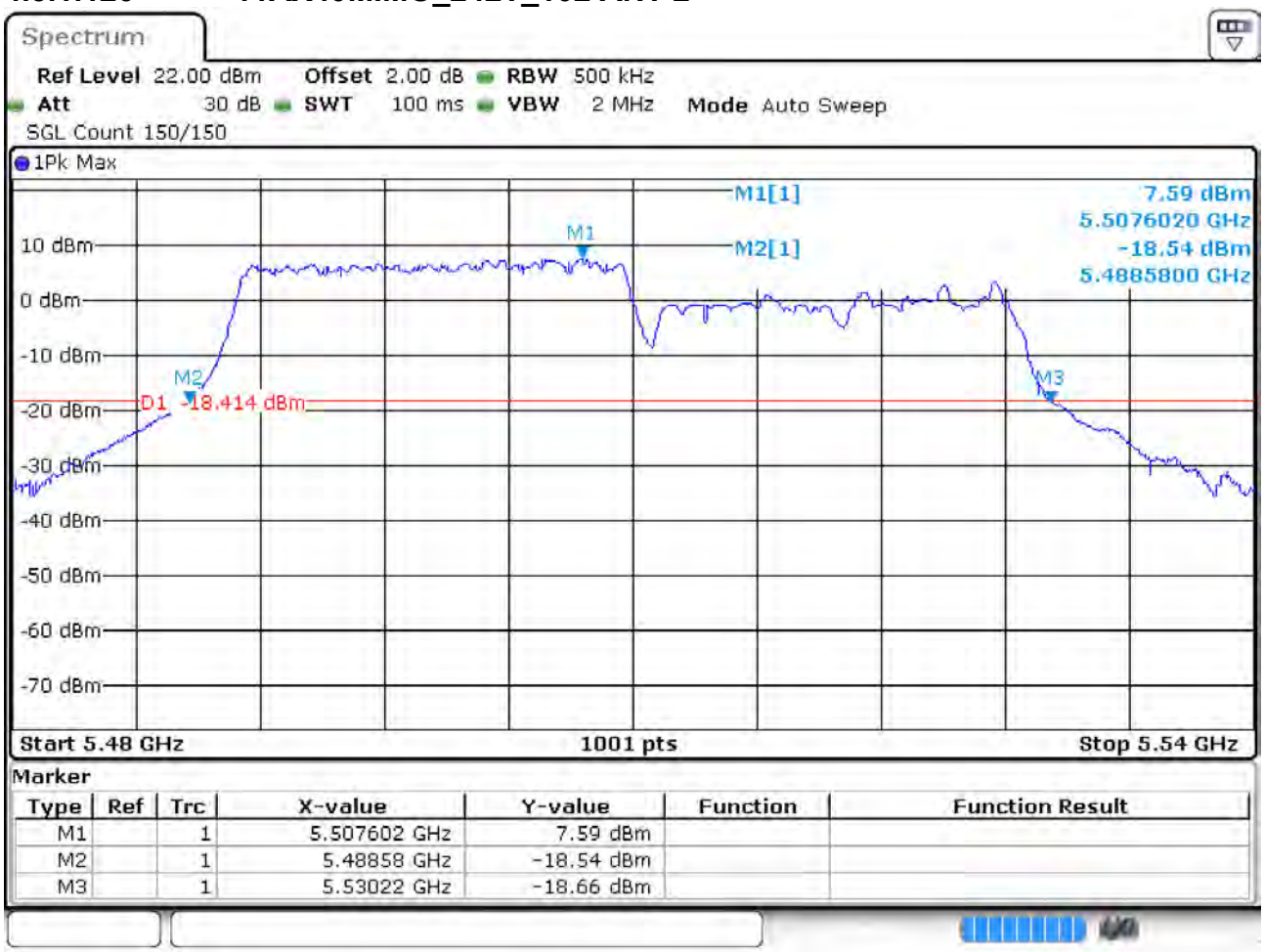
4.5.1.126 11AX40MIMO_242T_102 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.507602 GHz	7.59 dBm		
M2		1	5.48858 GHz	-18.54 dBm		
M3		1	5.53022 GHz	-18.66 dBm		

Date: 11.APR.2020 11:34:59

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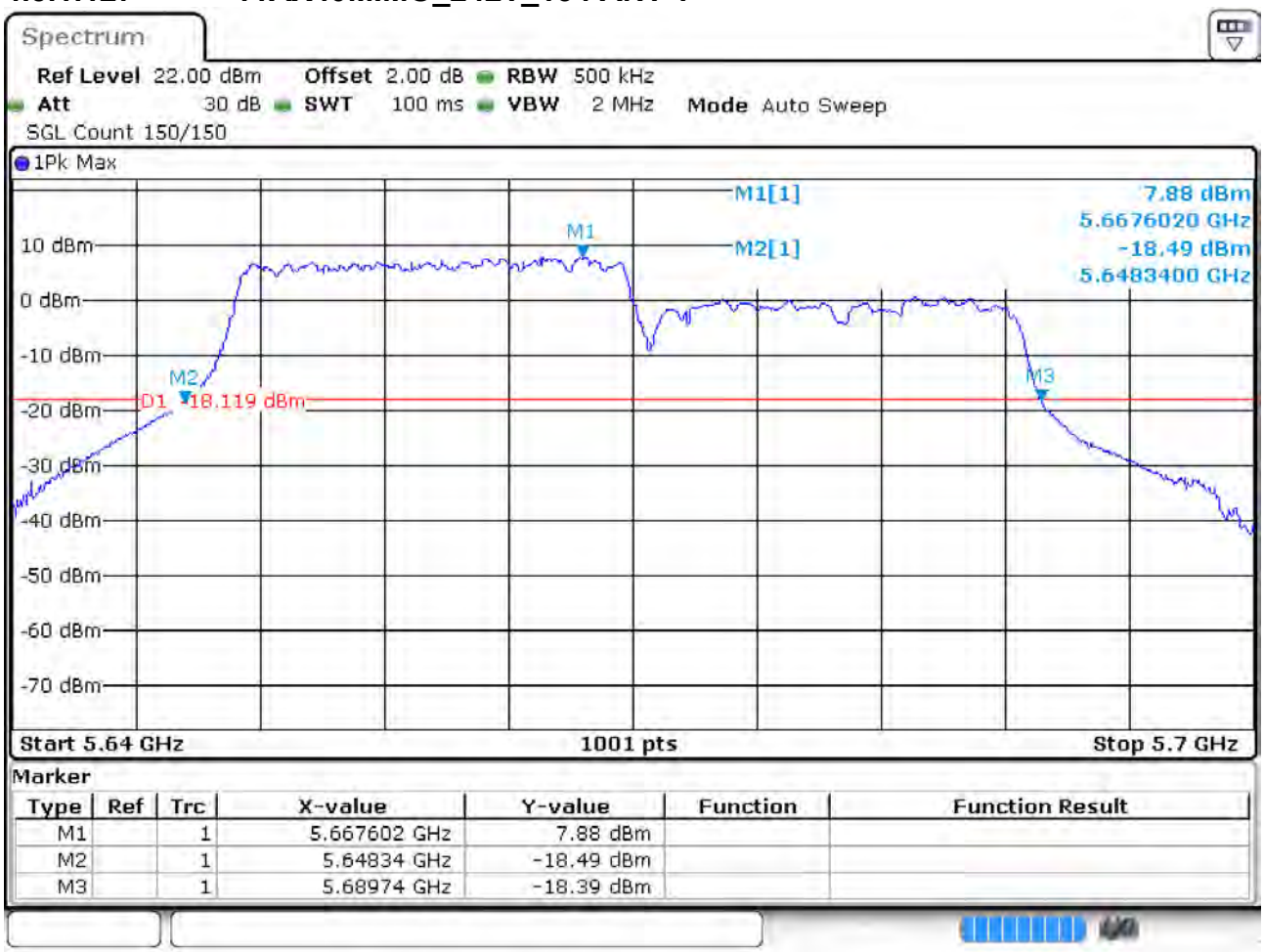
4.5.1.127 11AX40MIMO_242T_134 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.667602 GHz	7.88 dBm		
M2		1	5.64834 GHz	-18.49 dBm		
M3		1	5.68974 GHz	-18.39 dBm		

Date: 11.APR.2020 11:14:36

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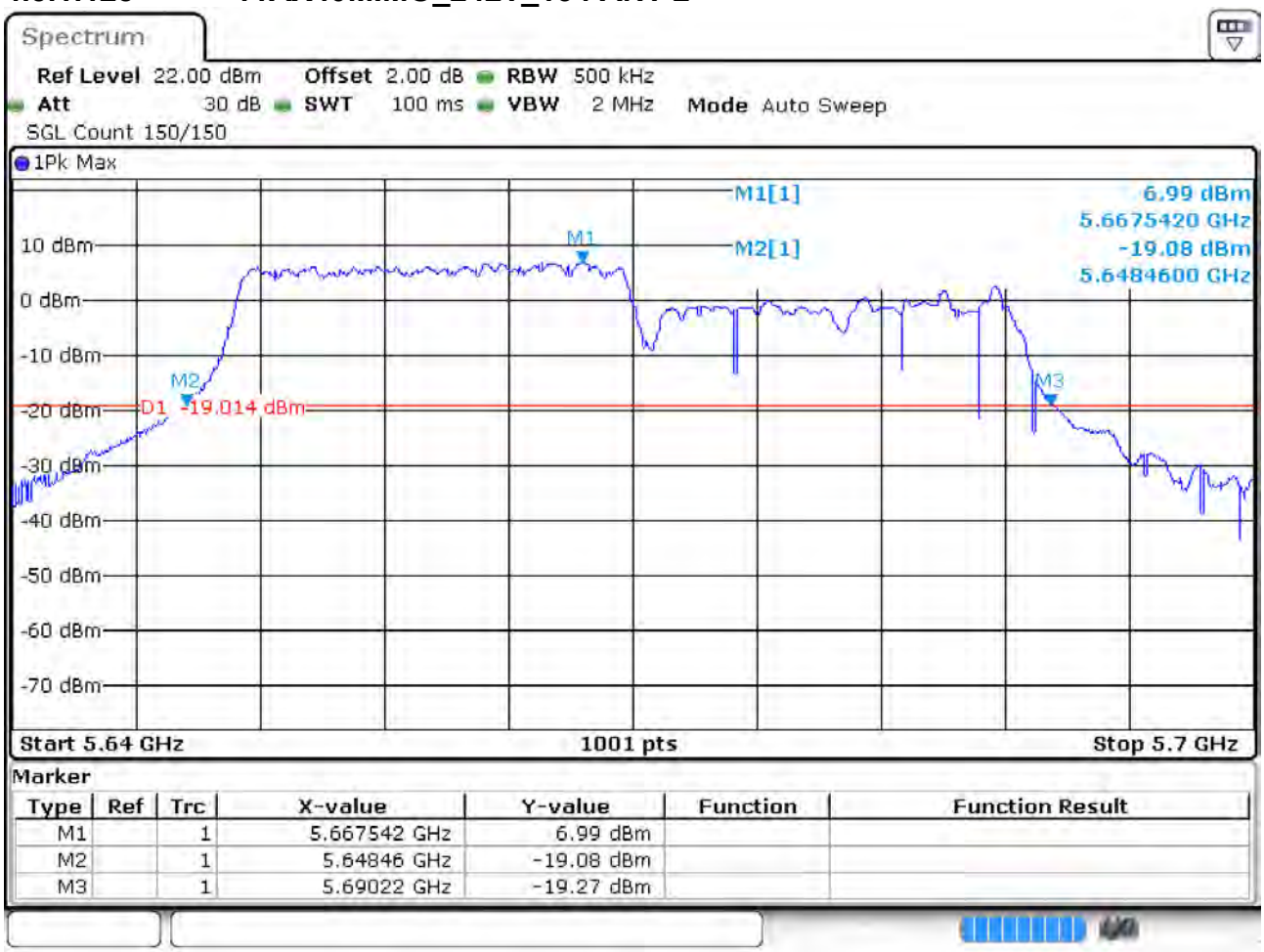
4.5.1.128 11AX40MIMO_242T_134 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.667542 GHz	6.99 dBm		
M2		1	5.64846 GHz	-19.08 dBm		
M3		1	5.69022 GHz	-19.27 dBm		

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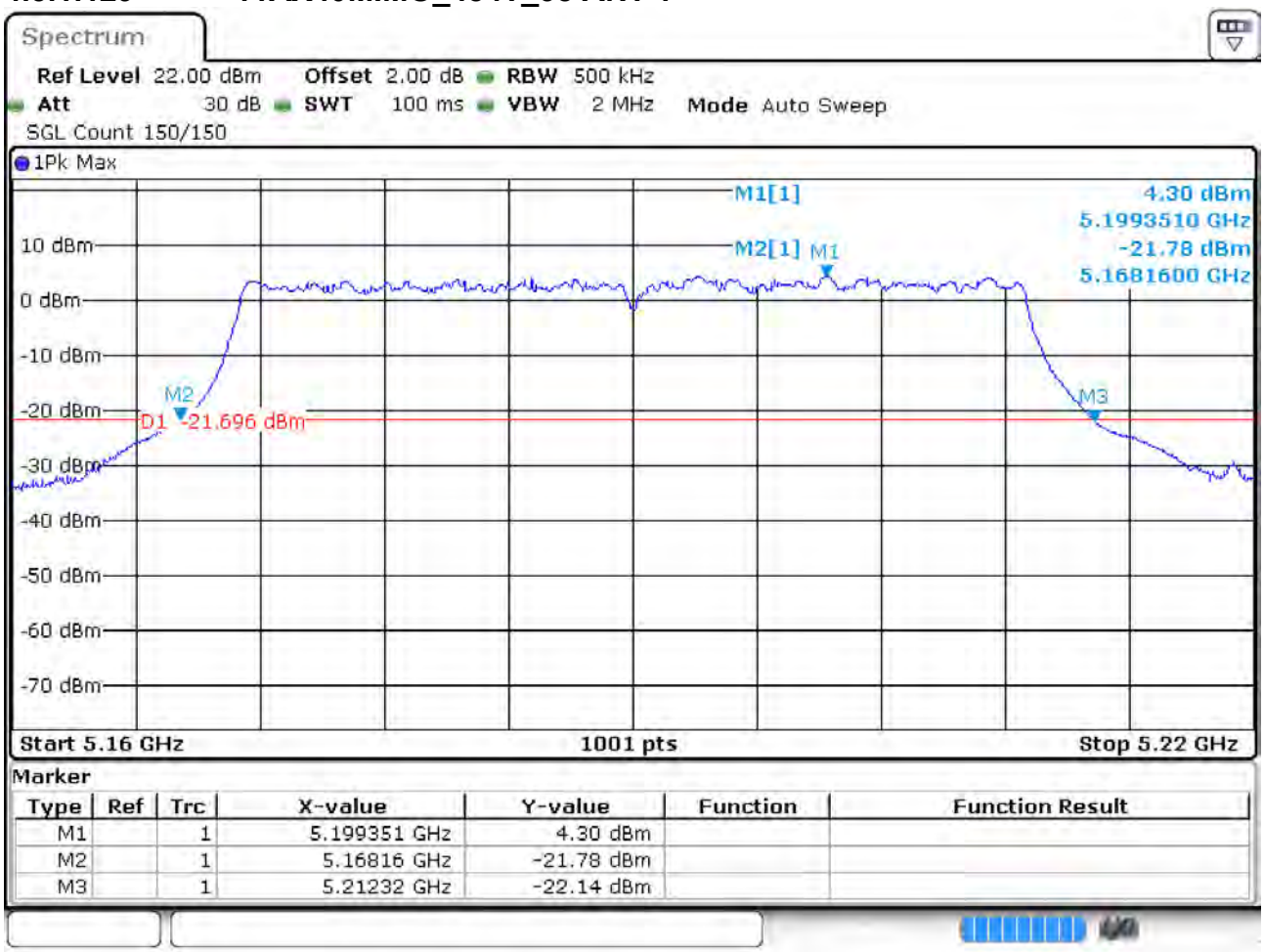
4.5.1.129 11AX40MIMO_484T_38 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.199351 GHz	4.30 dBm		
M2		1	5.16816 GHz	-21.78 dBm		
M3		1	5.21232 GHz	-22.14 dBm		

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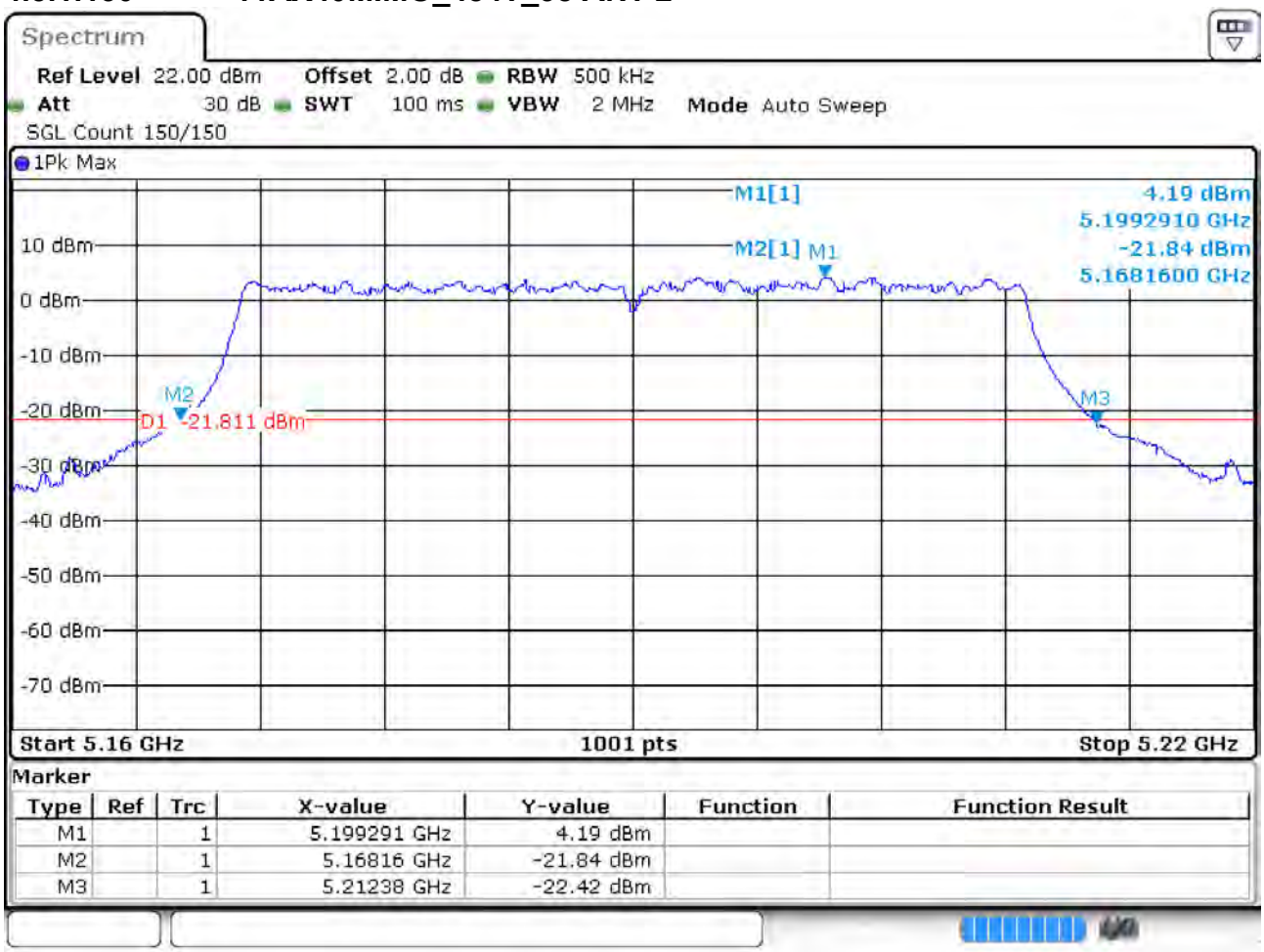
4.5.1.130 11AX40MIMO_484T_38 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.199291 GHz	4.19 dBm		
M2		1	5.16816 GHz	-21.84 dBm		
M3		1	5.21238 GHz	-22.42 dBm		

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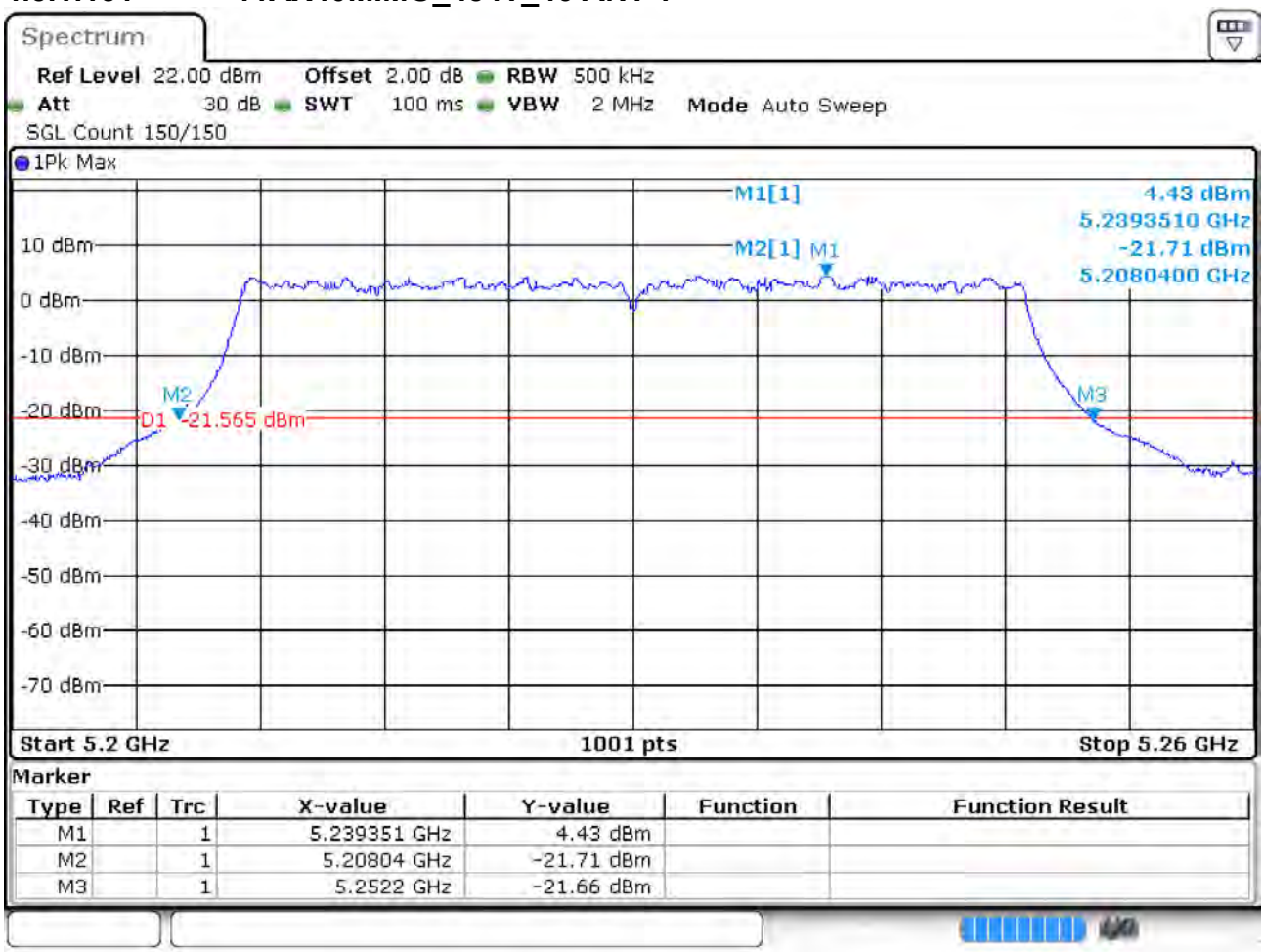
4.5.1.131 11AX40MIMO_484T_46 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.239351 GHz	4.43 dBm		
M2		1	5.20804 GHz	-21.71 dBm		
M3		1	5.2522 GHz	-21.66 dBm		

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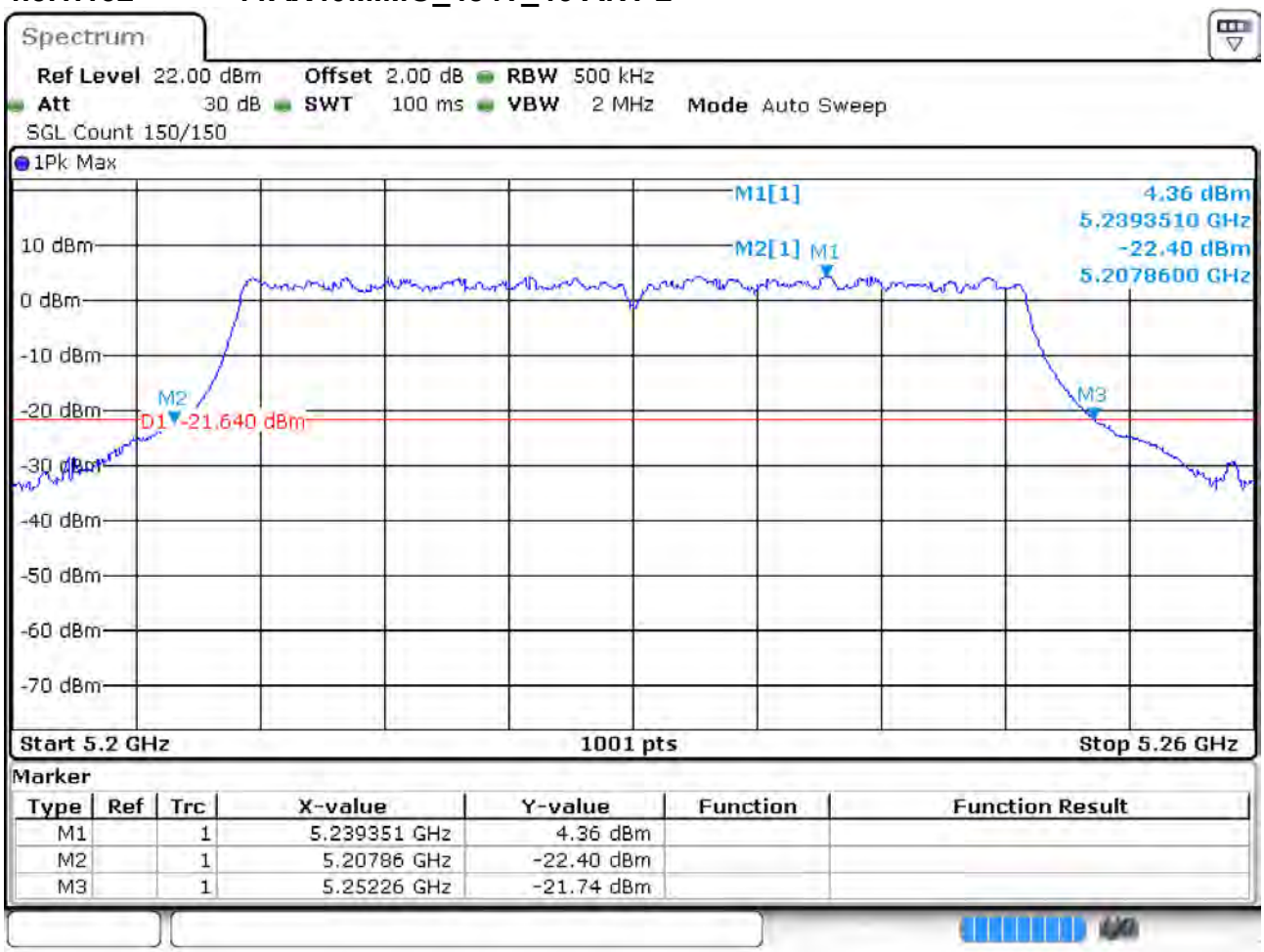
4.5.1.132 11AX40MIMO_484T_46 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.239351 GHz	4.36 dBm		
M2		1	5.20786 GHz	-22.40 dBm		
M3		1	5.25226 GHz	-21.74 dBm		

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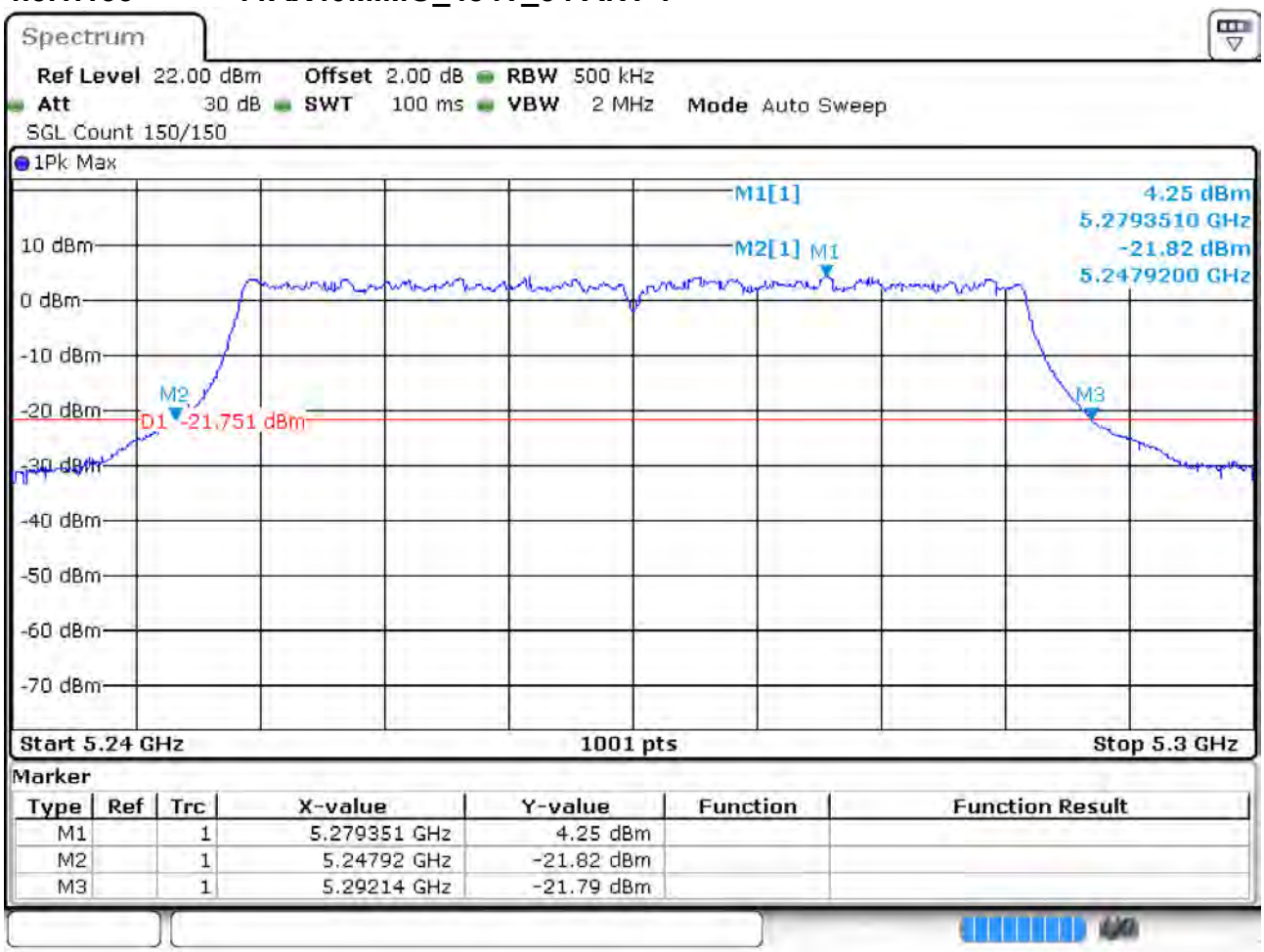
4.5.1.133 11AX40MIMO_484T_54 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.279351 GHz	4.25 dBm		
M2		1	5.24792 GHz	-21.82 dBm		
M3		1	5.29214 GHz	-21.79 dBm		

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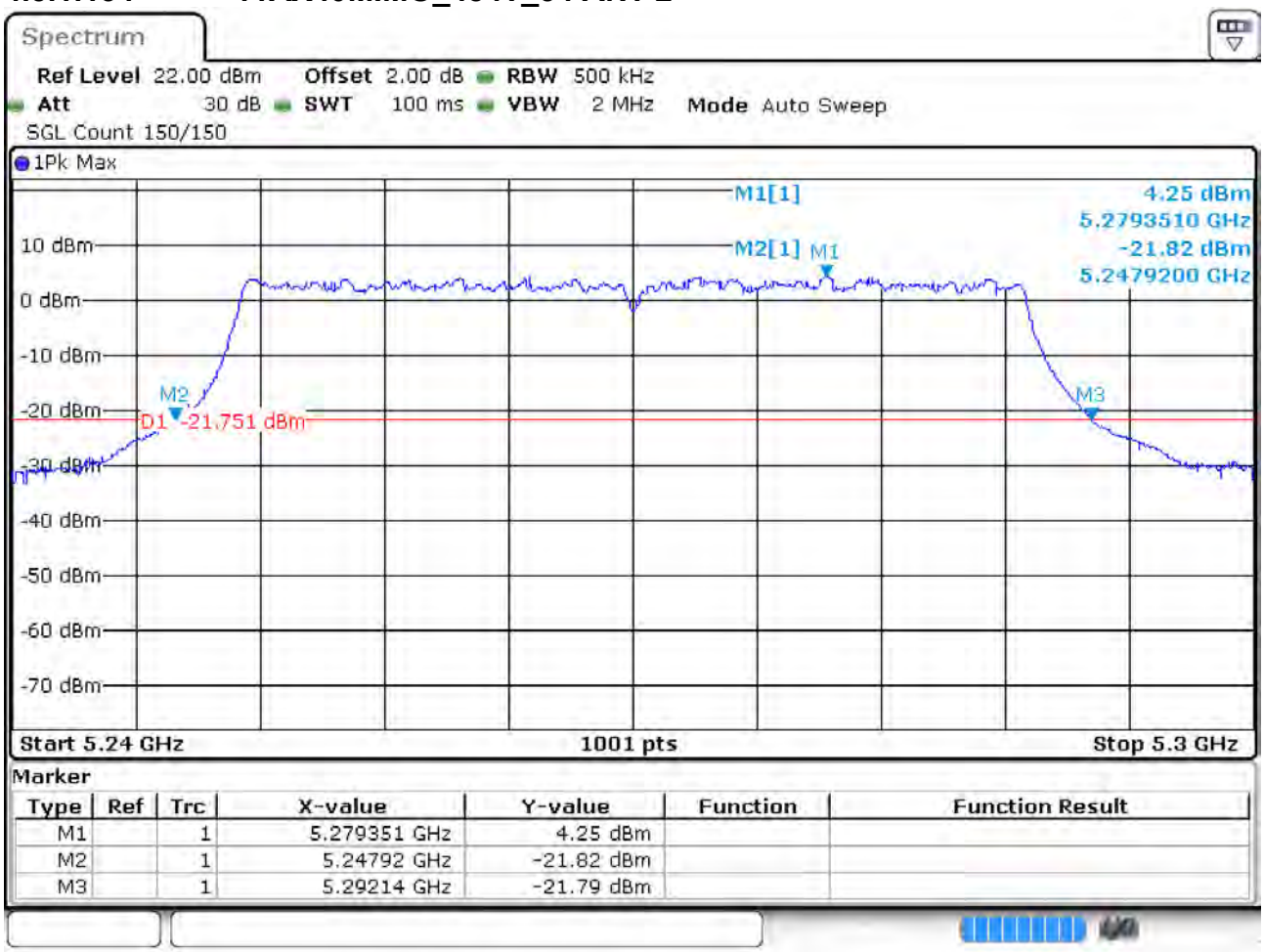
4.5.1.134 11AX40MIMO_484T_54 ANT 2



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.279351 GHz	4.25 dBm		
M2		1	5.24792 GHz	-21.82 dBm		
M3		1	5.29214 GHz	-21.79 dBm		

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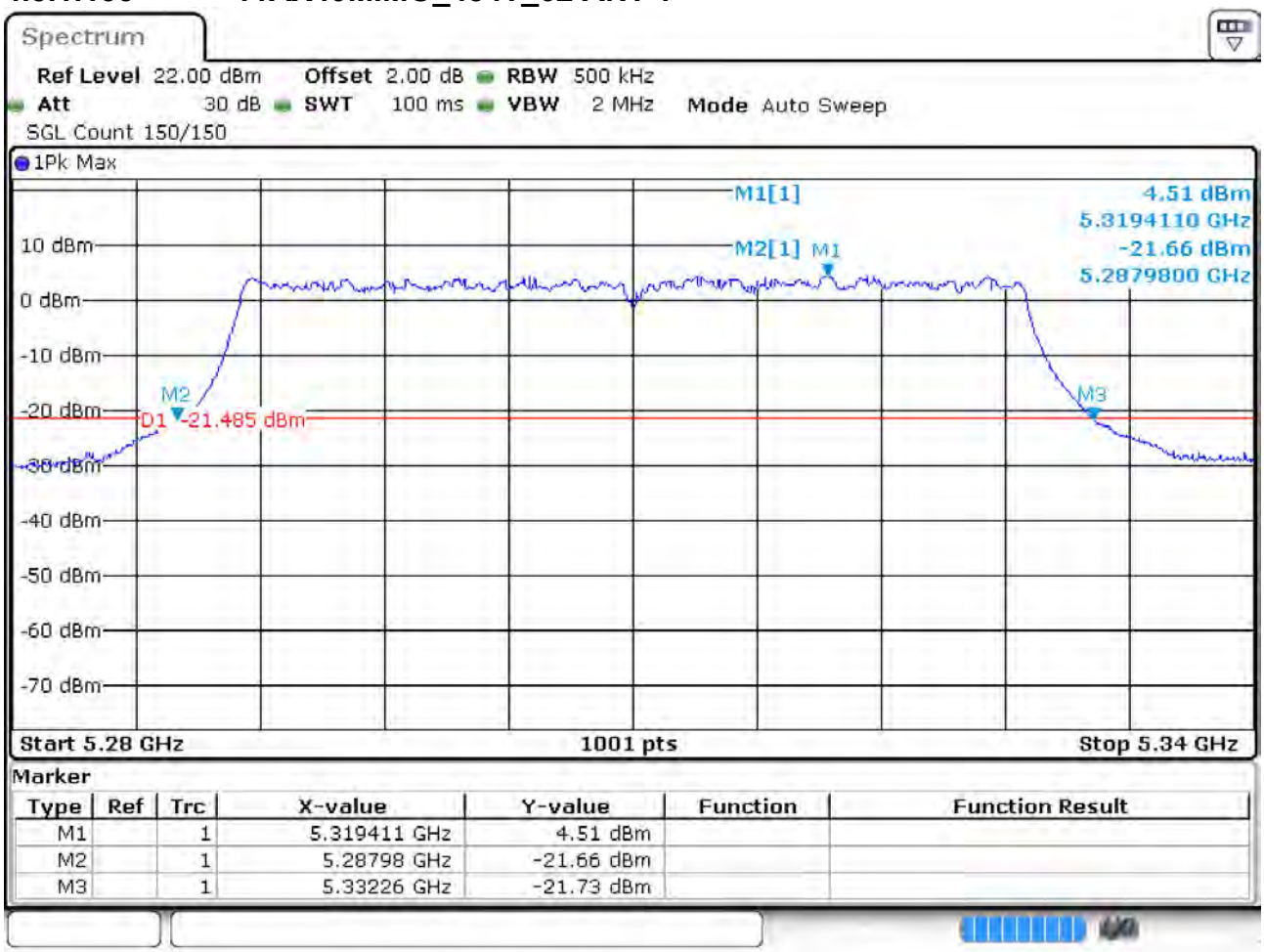
4.5.1.135 11AX40MIMO_484T_62 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.319411 GHz	4.51 dBm		
M2		1	5.28798 GHz	-21.66 dBm		
M3		1	5.33226 GHz	-21.73 dBm		

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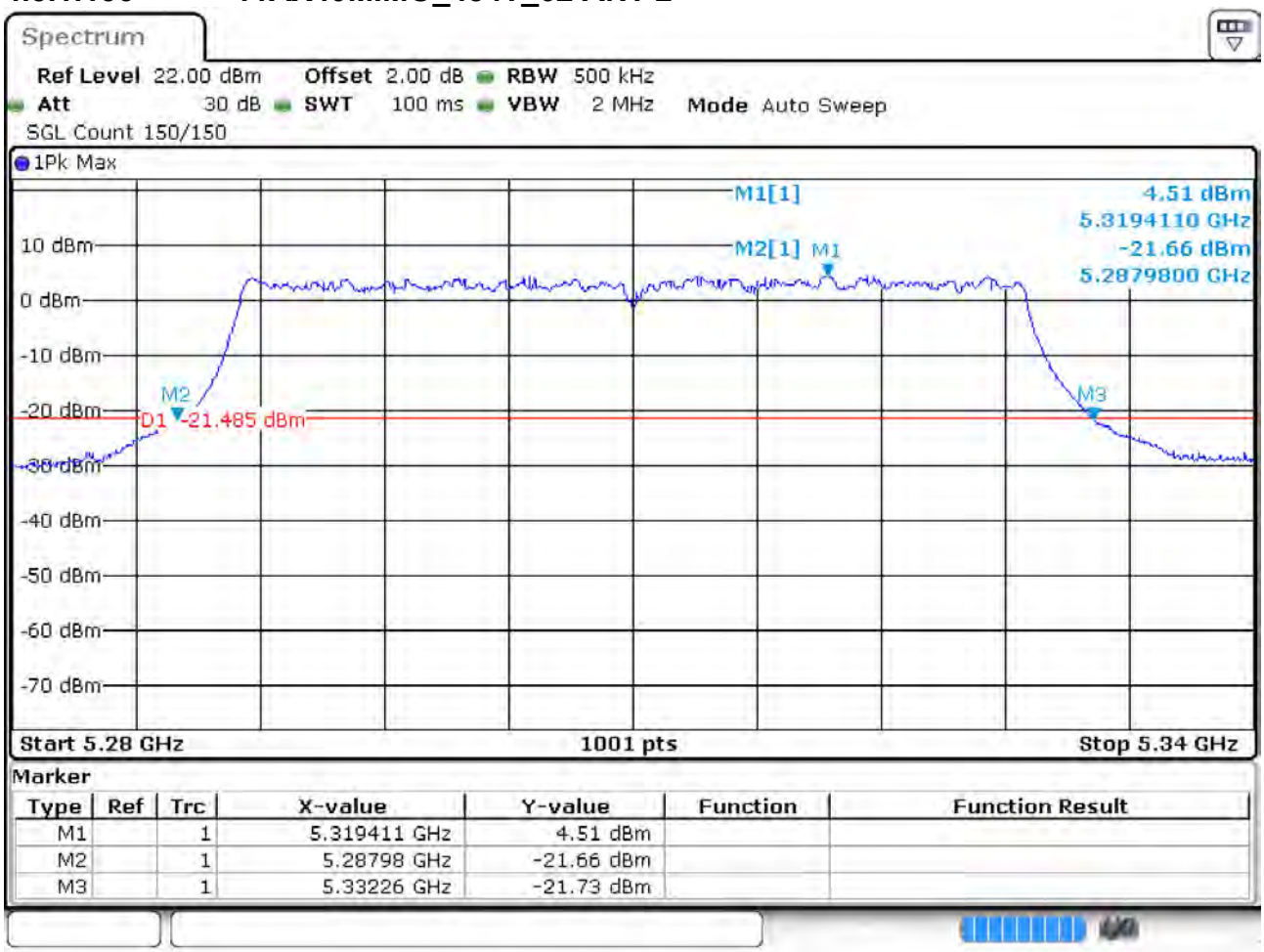
4.5.1.136 11AX40MIMO_484T_62 ANT 2



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.319411 GHz	4.51 dBm		
M2		1	5.28798 GHz	-21.66 dBm		
M3		1	5.33226 GHz	-21.73 dBm		

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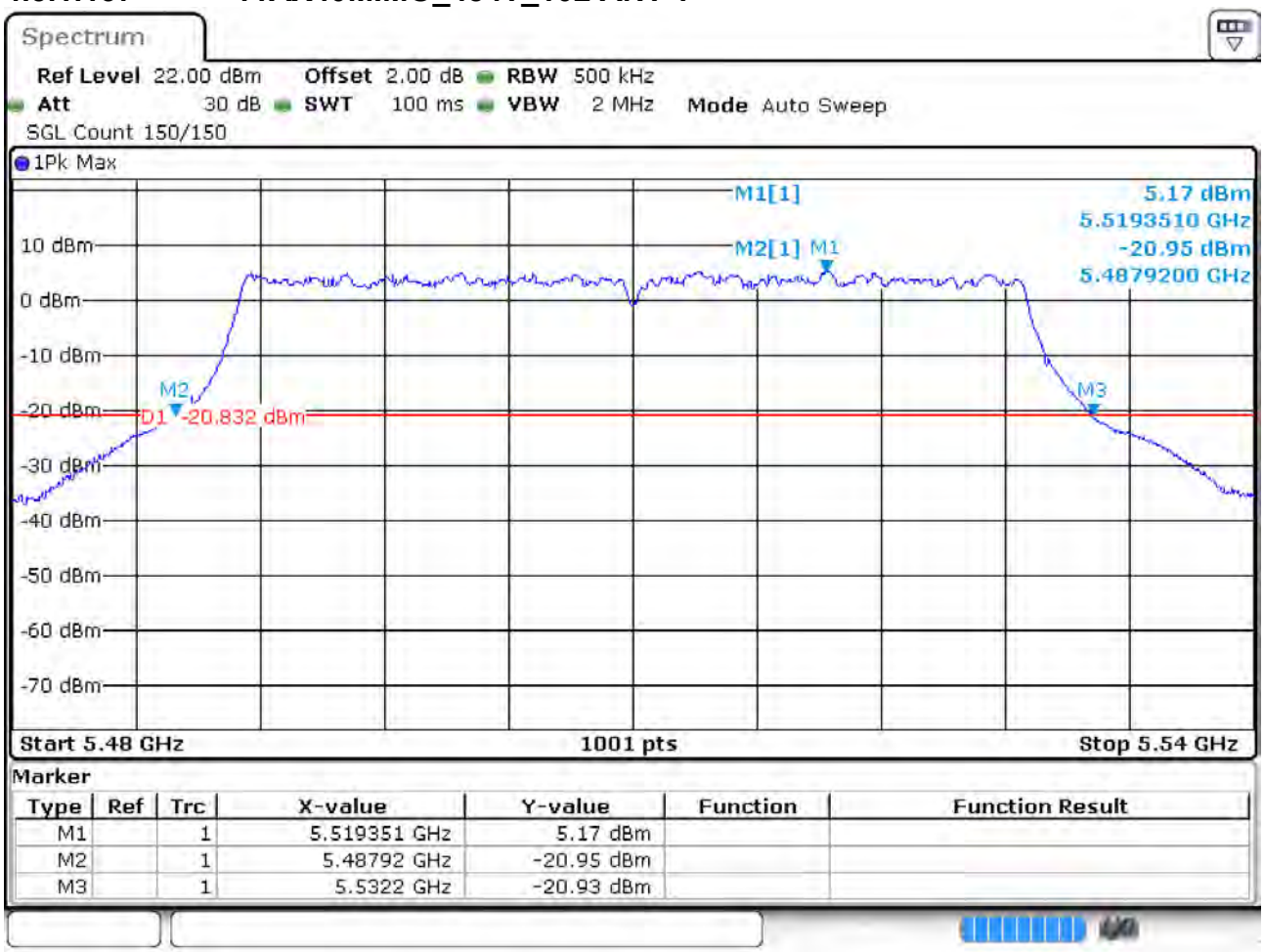
4.5.1.137 11AX40MIMO_484T_102 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.519351 GHz	5.17 dBm		
M2		1	5.48792 GHz	-20.95 dBm		
M3		1	5.5322 GHz	-20.93 dBm		

Date: 11.APR.2020 11:57:27

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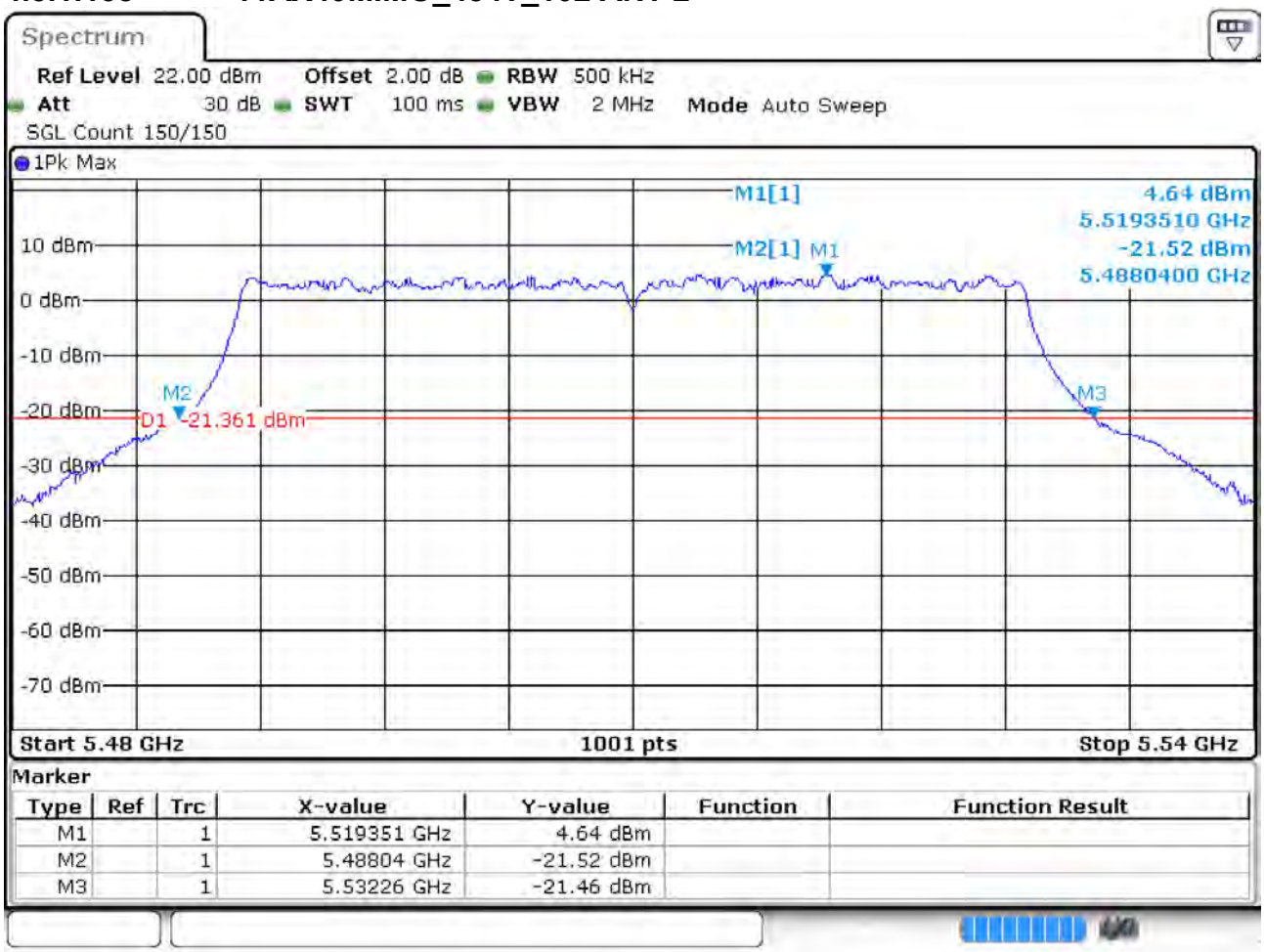
4.5.1.138 11AX40MIMO_484T_102 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.519351 GHz	4.64 dBm		
M2		1	5.48804 GHz	-21.52 dBm		
M3		1	5.53226 GHz	-21.46 dBm		

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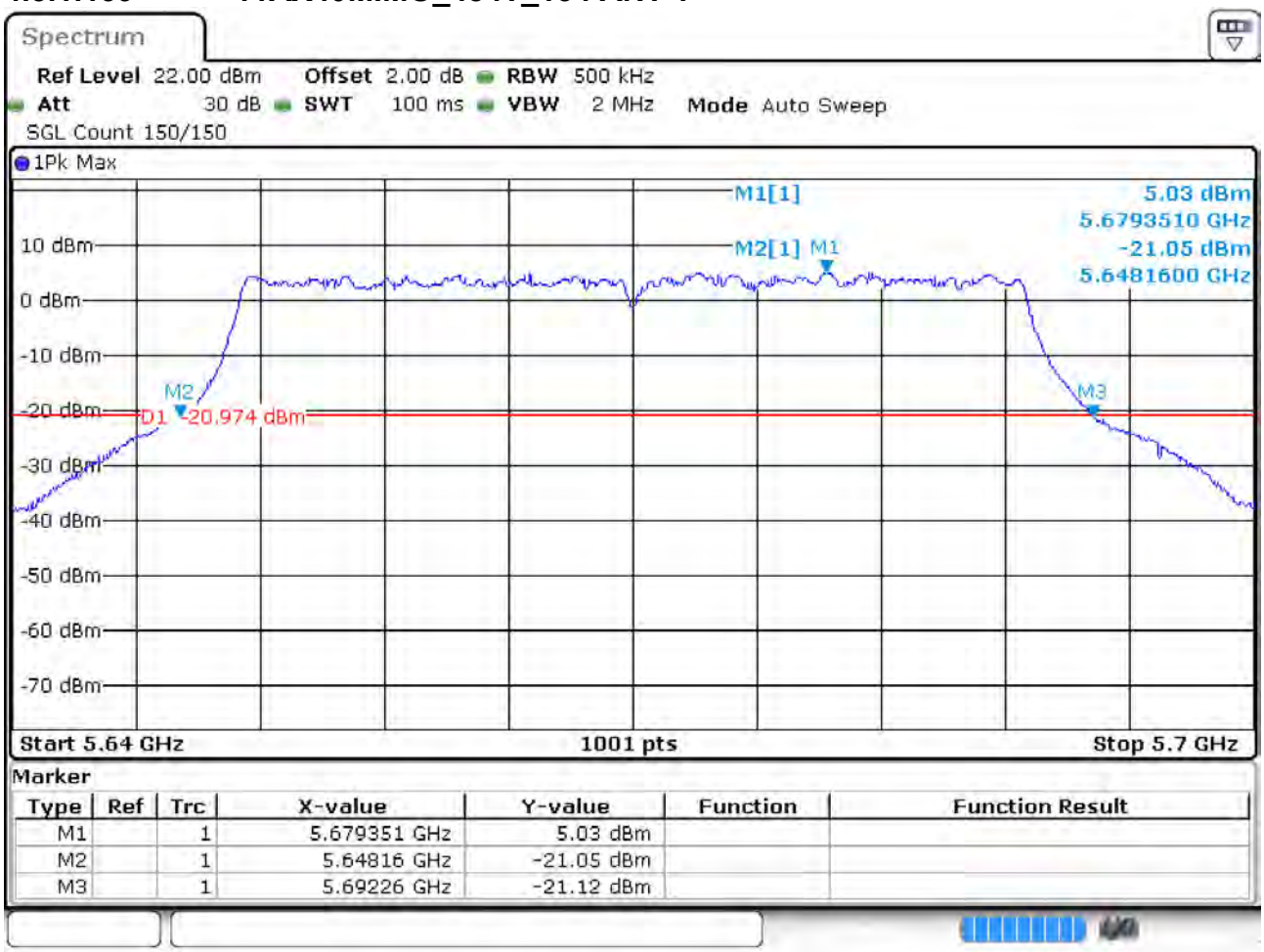
4.5.1.139 11AX40MIMO_484T_134 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.679351 GHz	5.03 dBm		
M2		1	5.64816 GHz	-21.05 dBm		
M3		1	5.69226 GHz	-21.12 dBm		

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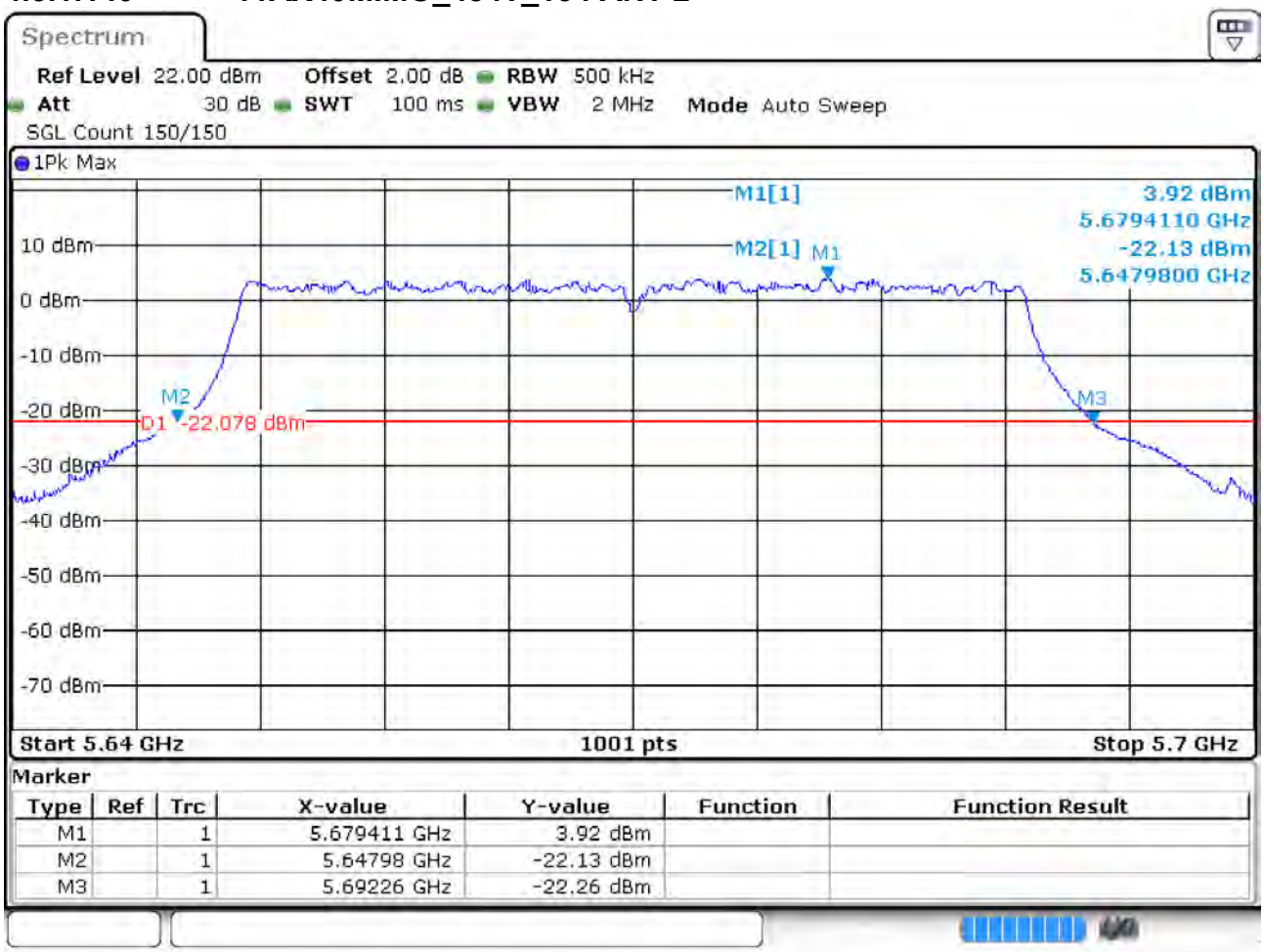
4.5.1.140 11AX40MIMO_484T_134 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.679411 GHz	3.92 dBm		
M2		1	5.64798 GHz	-22.13 dBm		
M3		1	5.69226 GHz	-22.26 dBm		

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4.5.1.141 11AX80MIMO_484T_42 ANT 1

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.17372 GHz	12.11 dBm		
M2		1	5.16408 GHz	-14.44 dBm		
M3		1	5.25208 GHz	-15.29 dBm		

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4.5.1.142 11AX80MIMO_484T_42 ANT 2

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.17388 GHz	12.22 dBm		
M2		1	5.16456 GHz	-14.54 dBm		
M3		1	5.25144 GHz	-14.30 dBm		

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4.5.1.143 11AX80MIMO_484T_58 ANT 1

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.25324 GHz	13.08 dBm		
M2		1	5.23736 GHz	-13.16 dBm		
M3		1	5.3308 GHz	-13.83 dBm		

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4.5.1.144 11AX80MIMO_484T_58 ANT 2

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.26506 GHz	12.69 dBm		
M2		1	5.23784 GHz	-13.62 dBm		
M3		1	5.33128 GHz	-13.35 dBm		

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4.5.1.145 11AX80MIMO_484T_106 ANT 1

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.4934 GHz	12.93 dBm		
M2		1	5.486 GHz	-13.25 dBm		
M3		1	5.57064 GHz	-13.21 dBm		

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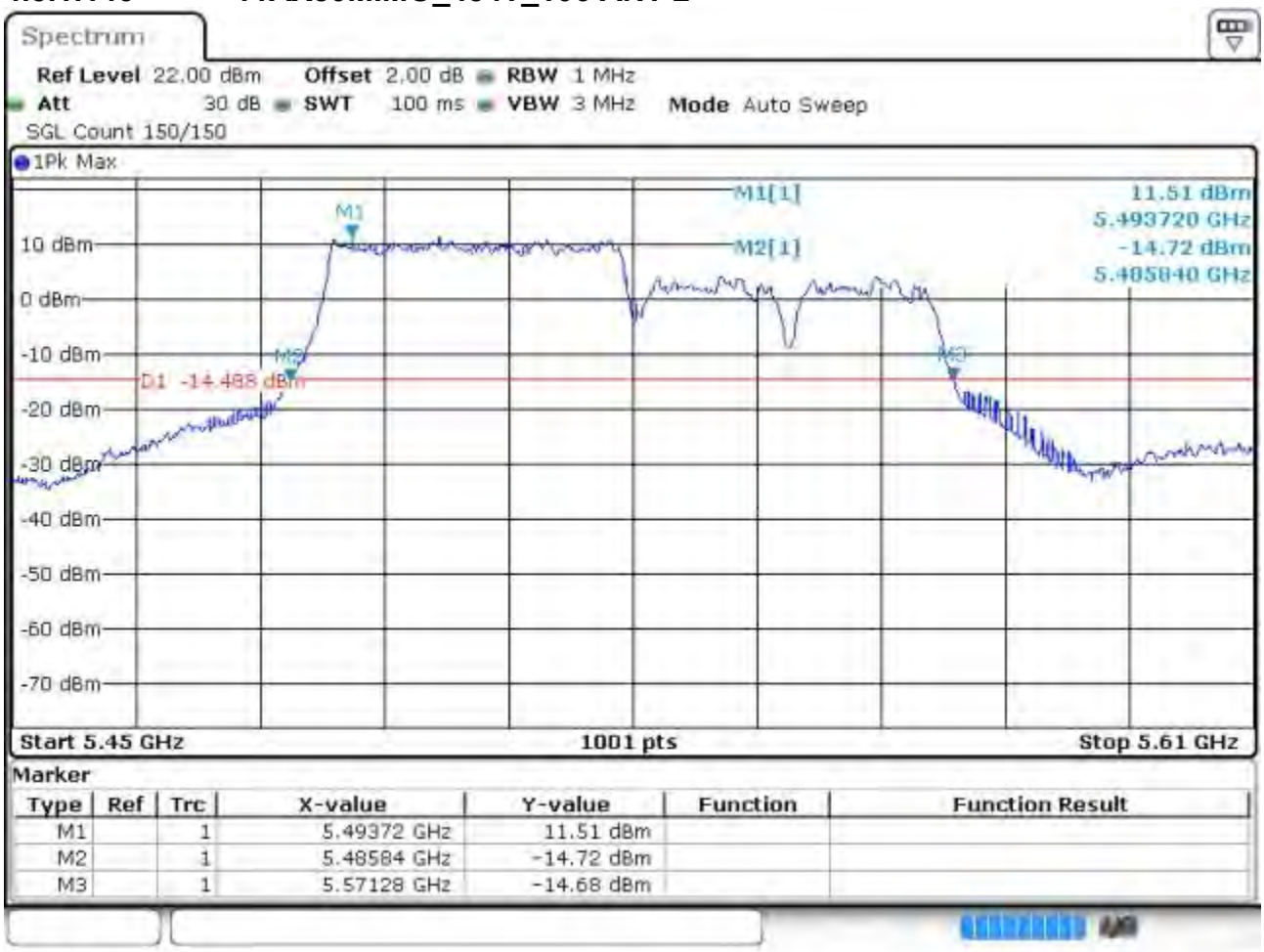
4.5.1.146 11AX80MIMO_484T_106 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.49372 GHz	11.51 dBm		
M2		1	5.48584 GHz	-14.72 dBm		
M3		1	5.57128 GHz	-14.68 dBm		

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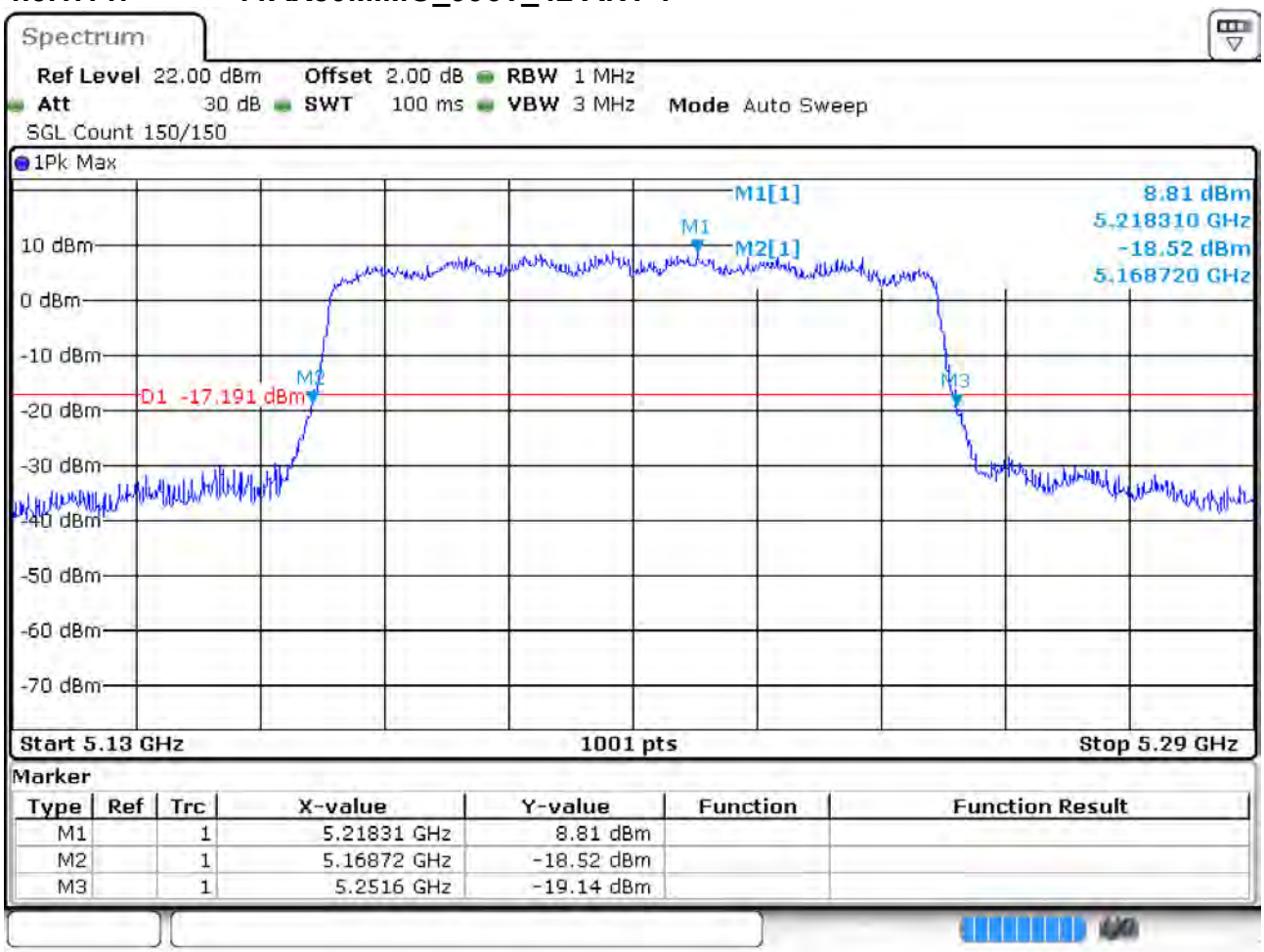
4.5.1.147 11AX80MIMO_996T_42 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.21831 GHz	8.81 dBm		
M2		1	5.16872 GHz	-18.52 dBm		
M3		1	5.2516 GHz	-19.14 dBm		

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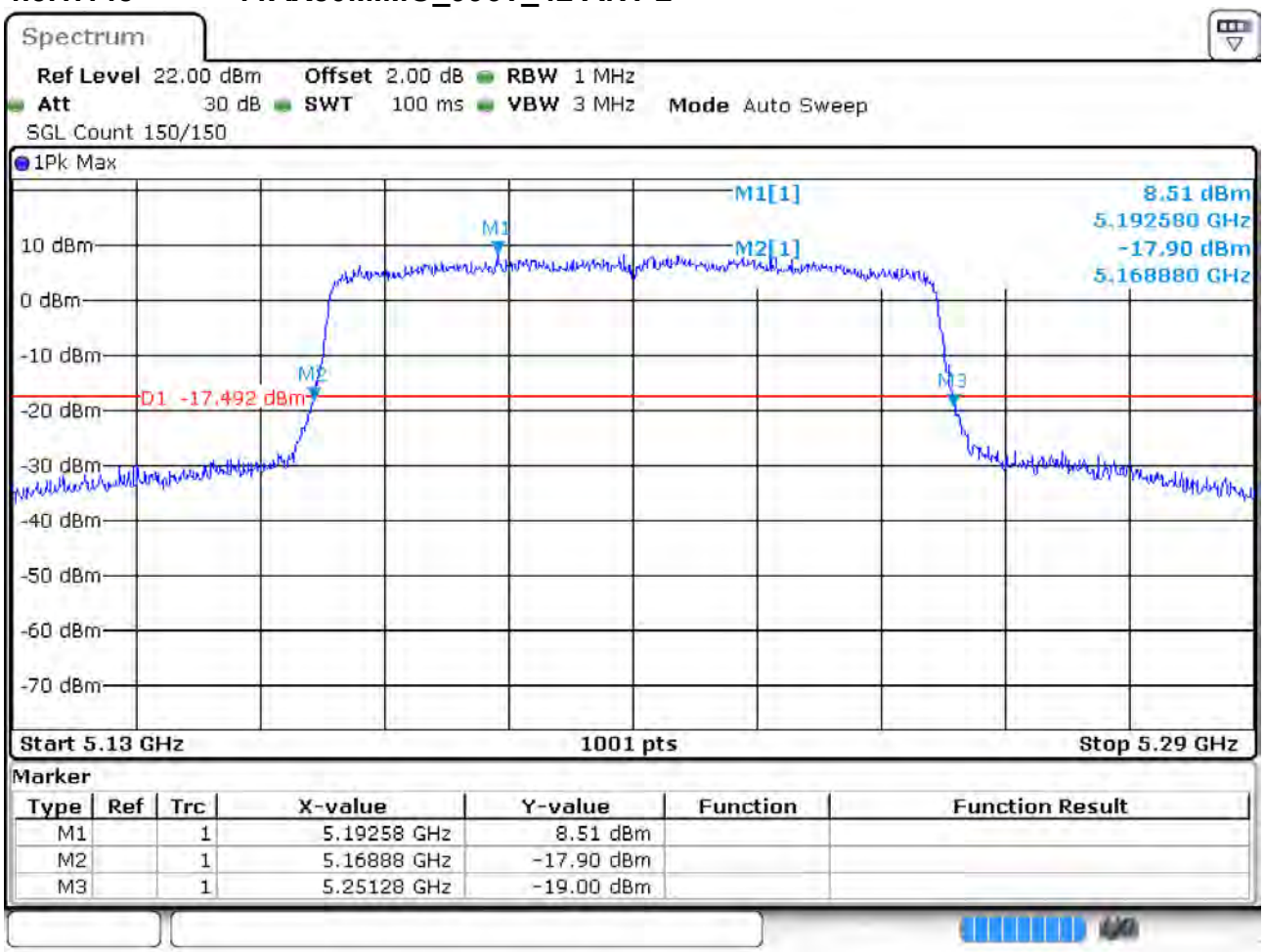
4.5.1.148 11AX80MIMO_996T_42 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.19258 GHz	8.51 dBm		
M2		1	5.16888 GHz	-17.90 dBm		
M3		1	5.25128 GHz	-19.00 dBm		

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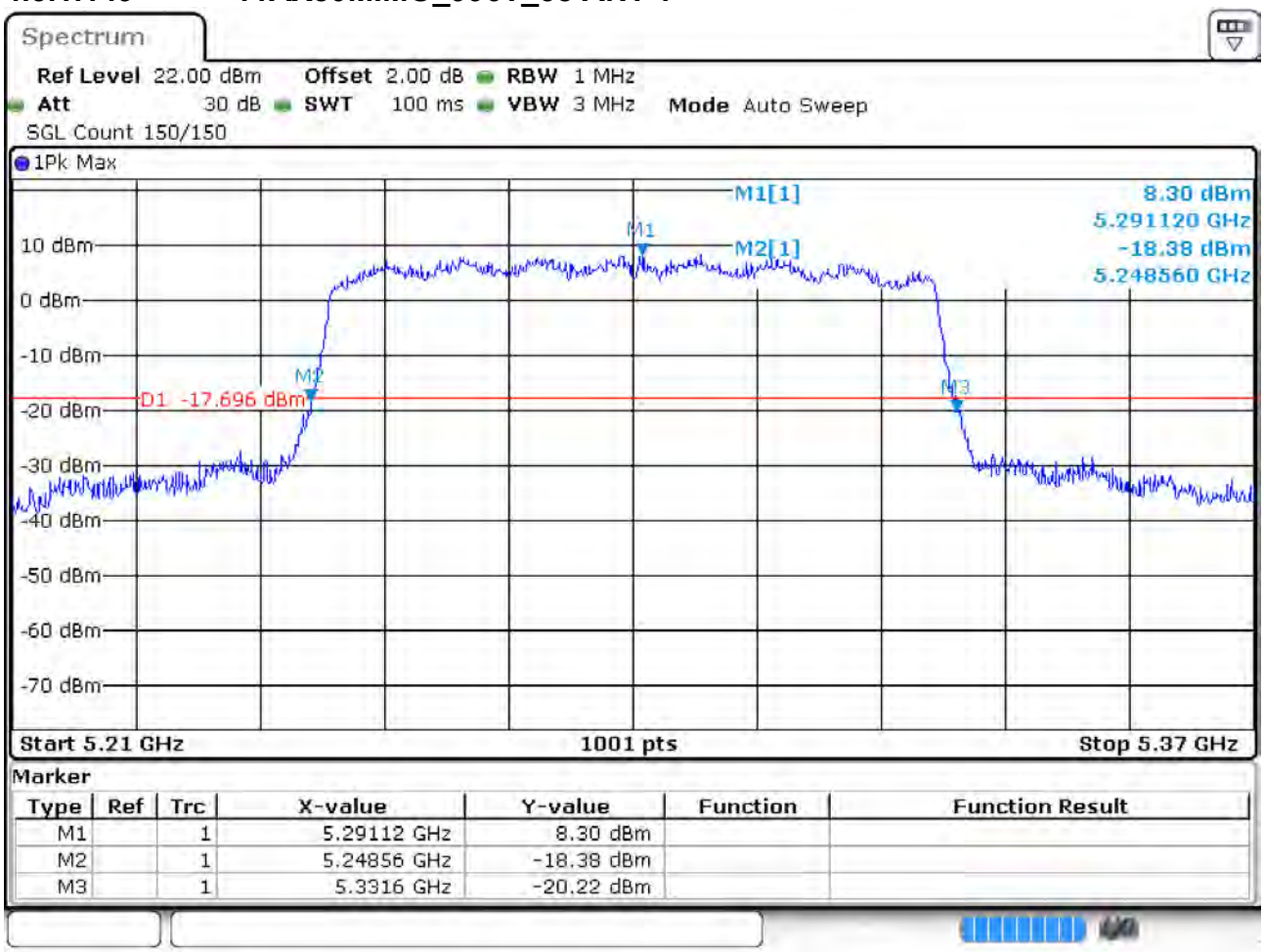
4.5.1.149 11AX80MIMO_996T_58 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.29112 GHz	8.30 dBm		
M2		1	5.24856 GHz	-18.38 dBm		
M3		1	5.3316 GHz	-20.22 dBm		

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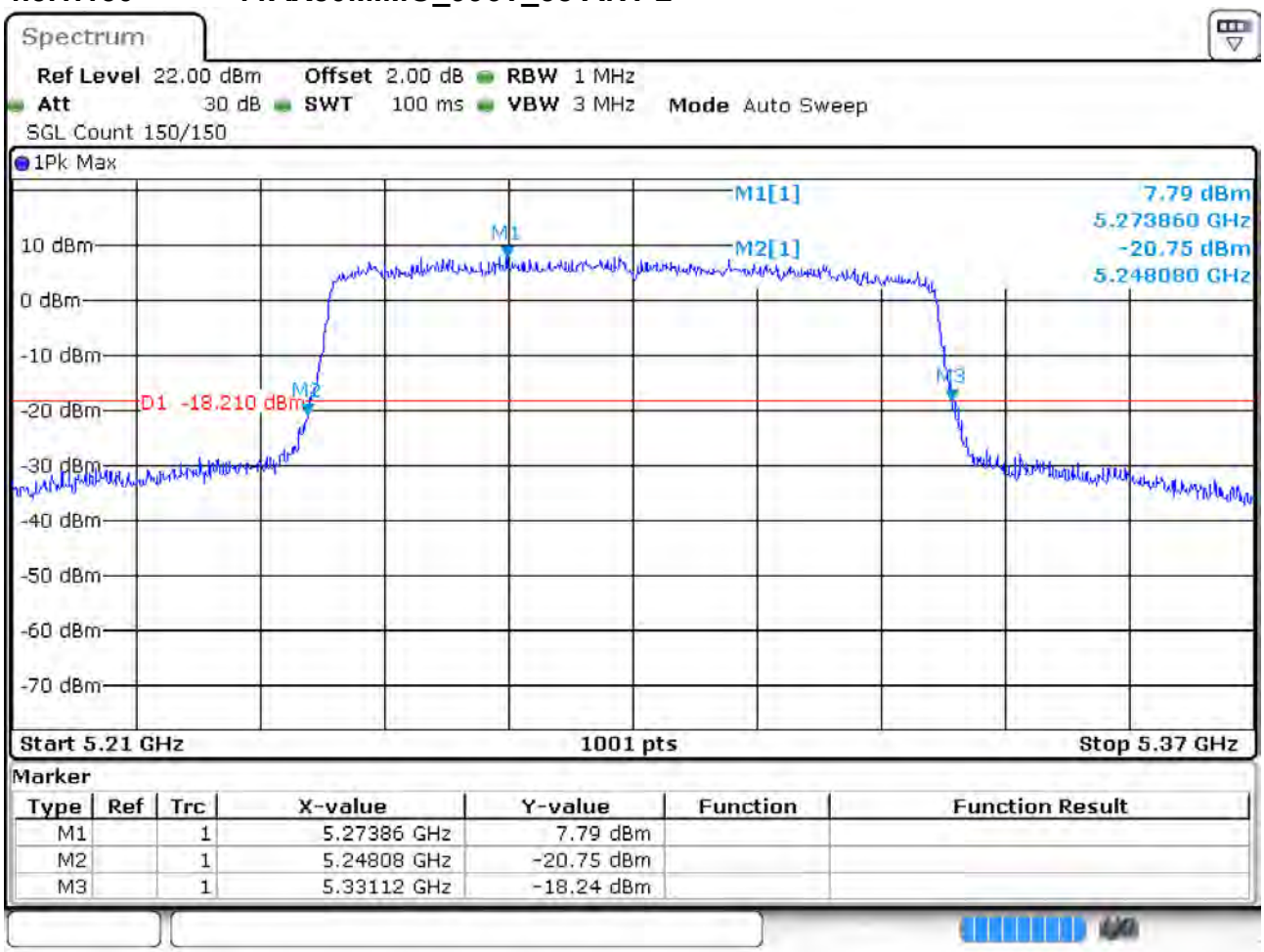
4.5.1.150 11AX80MIMO_996T_58 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.27386 GHz	7.79 dBm		
M2		1	5.24808 GHz	-20.75 dBm		
M3		1	5.33112 GHz	-18.24 dBm		

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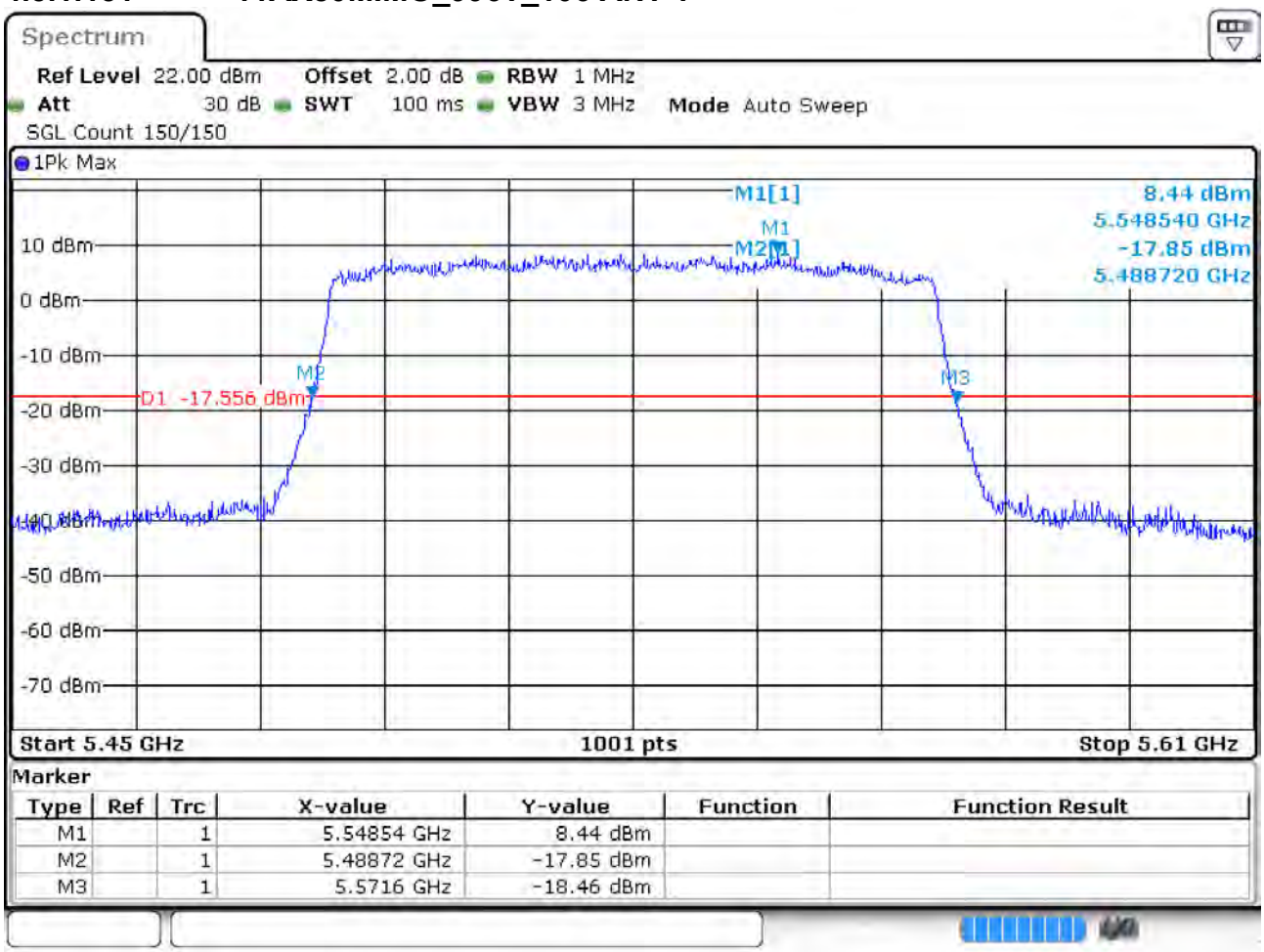
4.5.1.151 11AX80MIMO_996T_106 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.54854 GHz	8.44 dBm		
M2		1	5.48872 GHz	-17.85 dBm		
M3		1	5.5716 GHz	-18.46 dBm		

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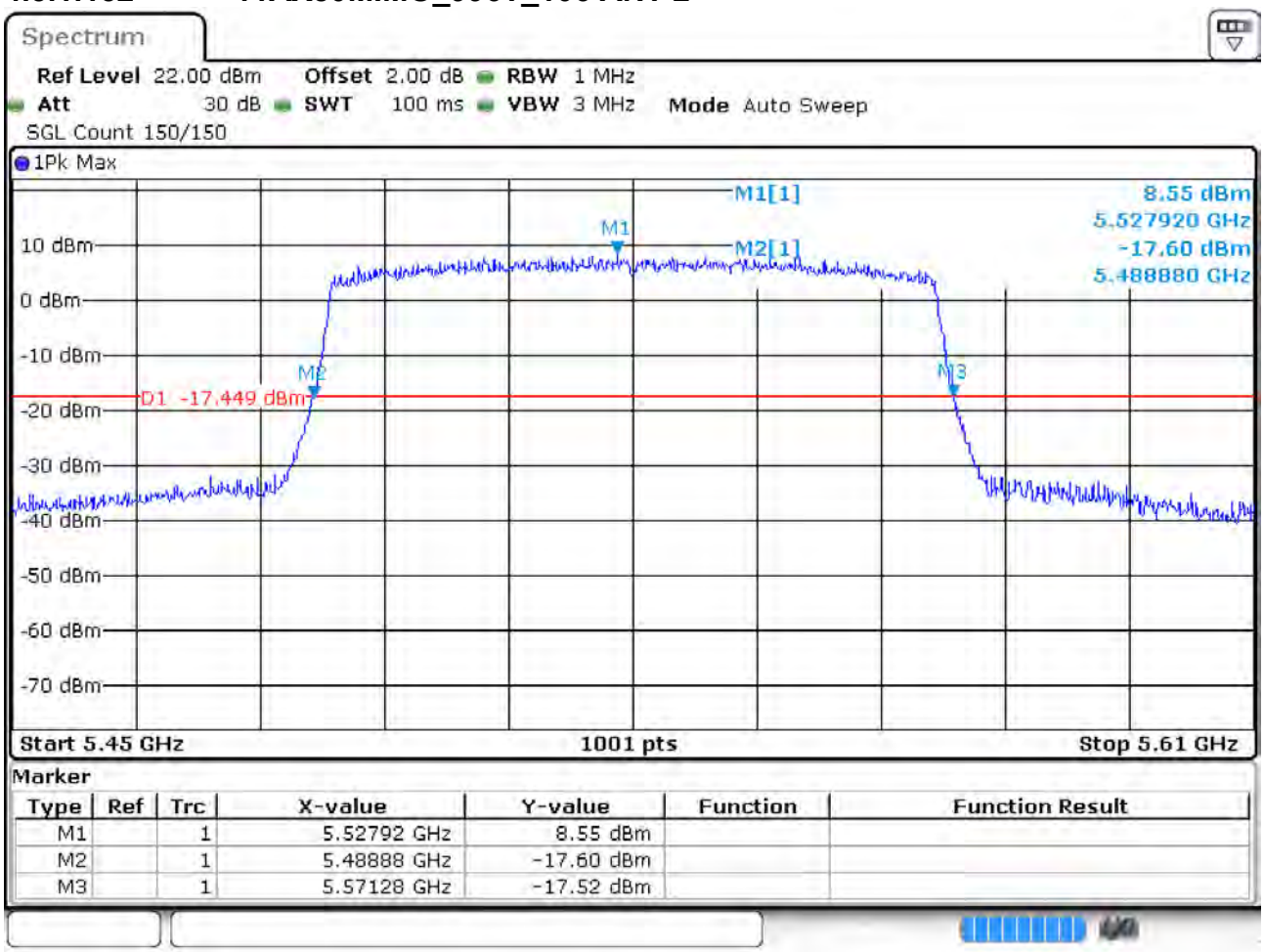
4.5.1.152 11AX80MIMO_996T_106 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.52792 GHz	8.55 dBm		
M2		1	5.48888 GHz	-17.60 dBm		
M3		1	5.57128 GHz	-17.52 dBm		

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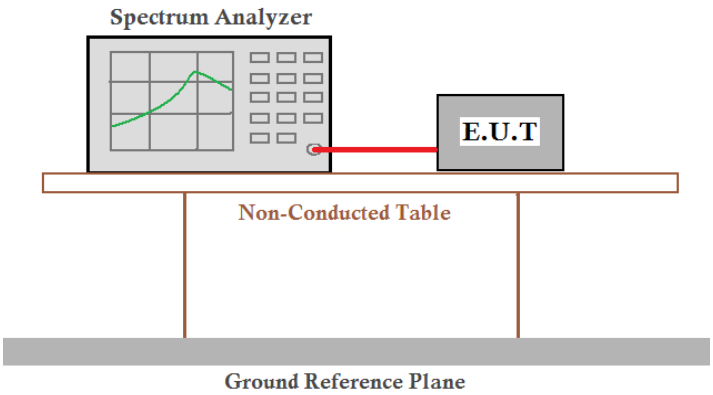
4.6 6dB Emission Bandwidth

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). MCS0 of rate is the worst case of 802.11ax(HT20); MCS0 of rate is the worst case of 802.11ax(HT40); MCS0 of rate is the worst case of 802.11ax(HT80); Only the worst case is recorded in the report.
Limit:	Frequency Band: 5725-5825MHz Limit: At lease 500kHz
Test Results:	Pass

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4.6.1 Test Plots For 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	6dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20CDD	149	5745	15.15	16.38	PASS
	161	5805	17.25	16.98	PASS
11N20MIMO	149	5745	17.64	17.61	PASS
	161	5805	17.19	17.01	PASS
11N40MIMO	151	5755	35.16	36.48	PASS
	159	5795	35.82	36.48	PASS
11AC20MIMO	149	5745	15.15	16.38	PASS
	161	5805	17.25	16.98	PASS
11AC40MIMO	151	5755	36.54	36.6	PASS
	159	5795	36.6	36.6	PASS
11AC80MIMO	155	5775	76.8	76.8	PASS
11AX20MIMO_26T	149	5745	2.7	6.39	PASS
	161	5805	2.7	8.88	PASS
11AX20MIMO_52T	149	5745	15.12	15.18	PASS
	161	5805	13.86	15.15	PASS
11AX20MIMO_106T	149	5745	17.19	17.76	PASS
	161	5805	17.16	18.12	PASS
11AX20MIMO_242T	149	5745	18.78	18.87	PASS
	161	5805	18.96	18.84	PASS
11AX40MIMO_484T	151	5755	38.28	38.28	PASS
	159	5795	38.28	38.28	PASS
11AX80MIMO_484T	155	5775	77.28	76.96	PASS
11AX80MIMO_996T	155	5775	77.6	77.92	PASS

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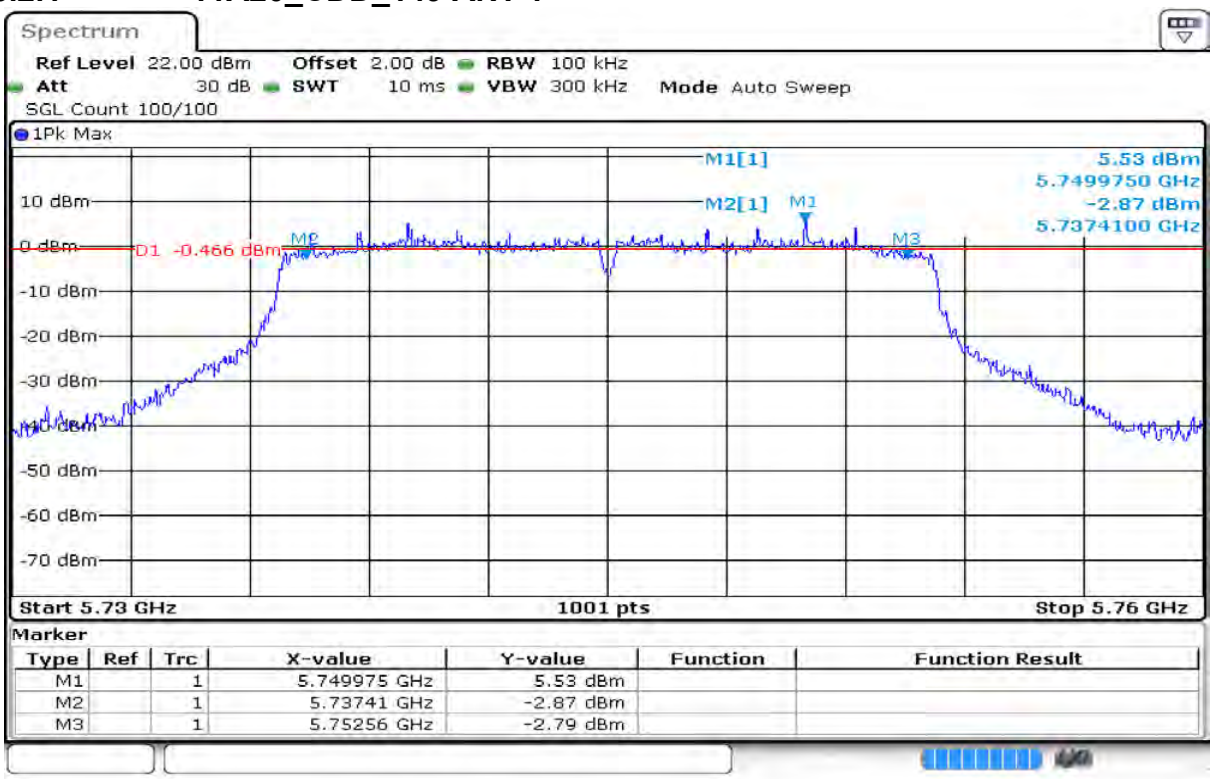
4.6.2 Test Plots For 6dB Emission Bandwidth

4.6.2.1 11A20_CDD_149 ANT 1



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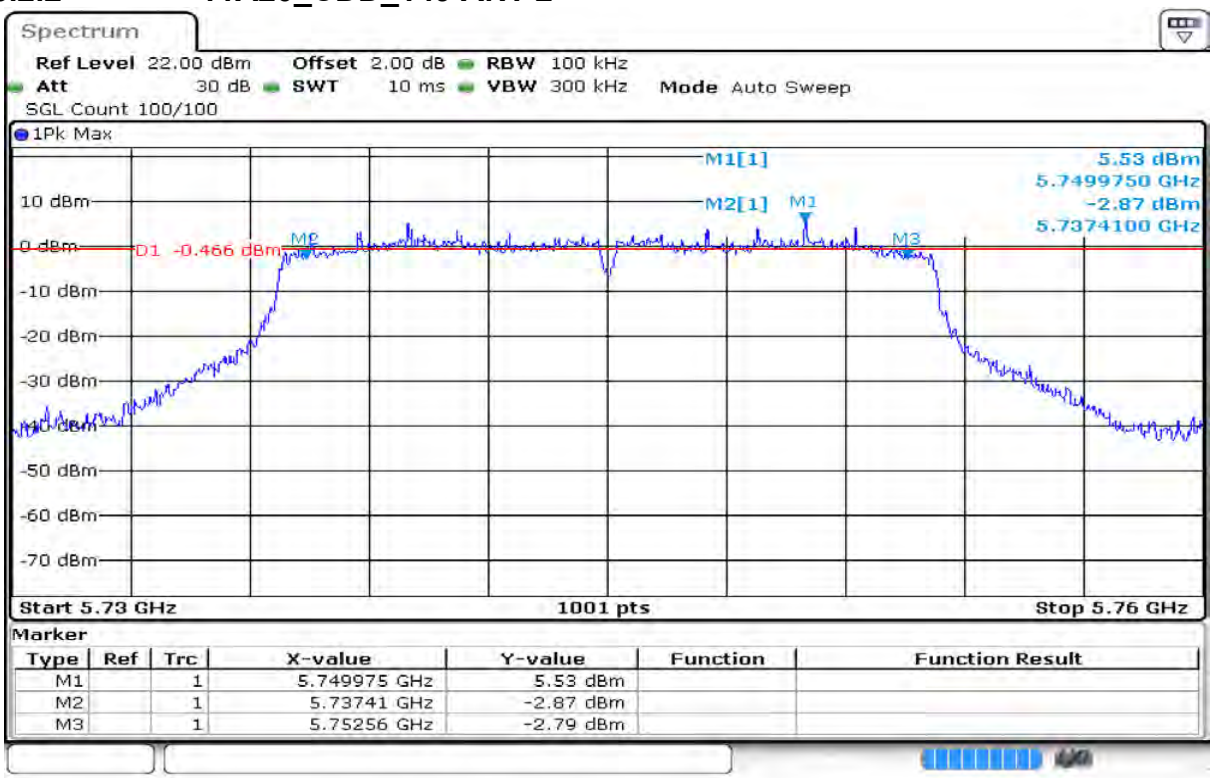
4.6.2.2 11A20_CDD_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749975 GHz	5.53 dBm		
M2		1	5.73741 GHz	-2.87 dBm		
M3		1	5.75256 GHz	-2.79 dBm		

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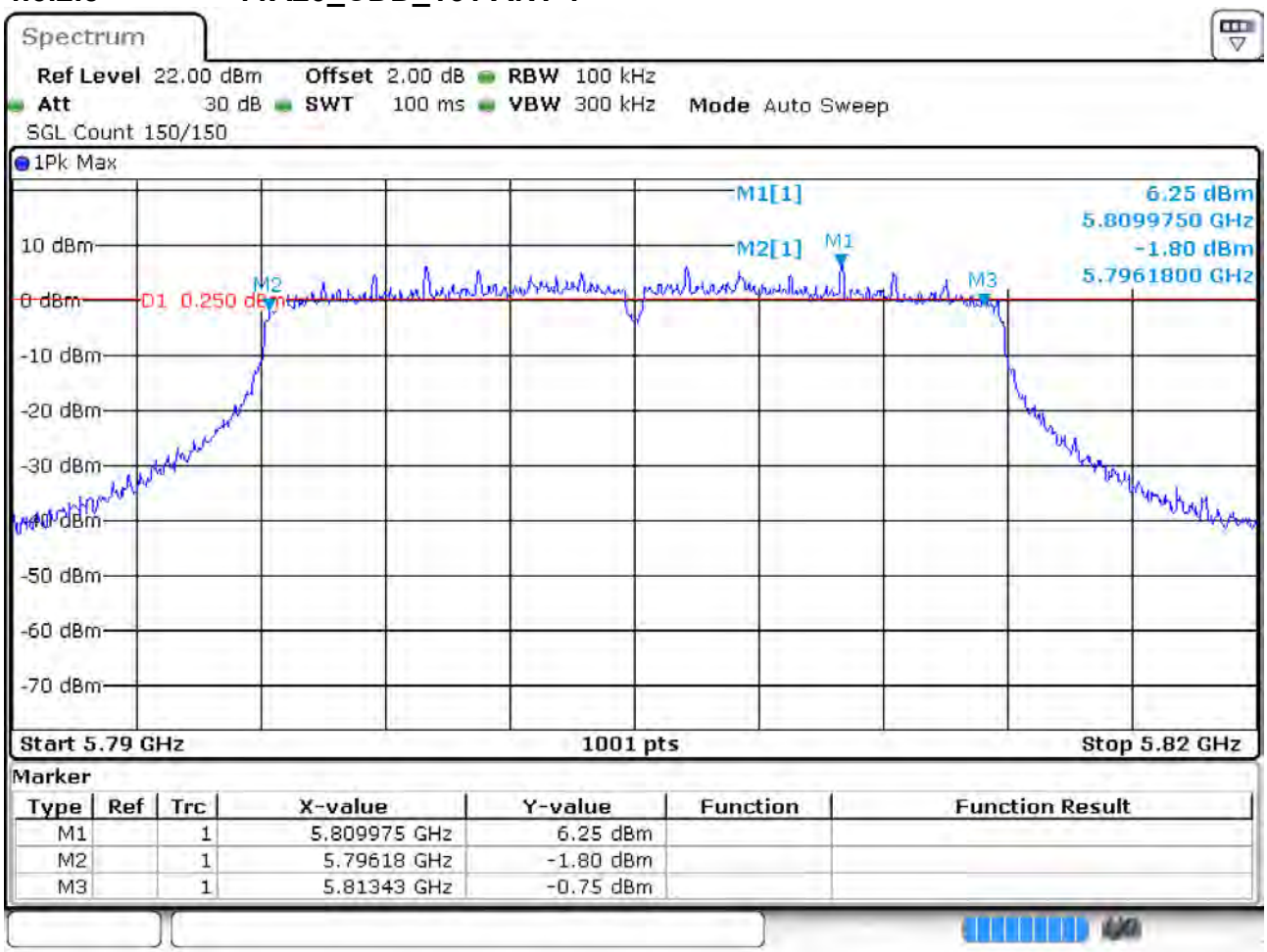
4.6.2.3 11A20_CDD_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.809975 GHz	6.25 dBm		
M2		1	5.79618 GHz	-1.80 dBm		
M3		1	5.81343 GHz	-0.75 dBm		

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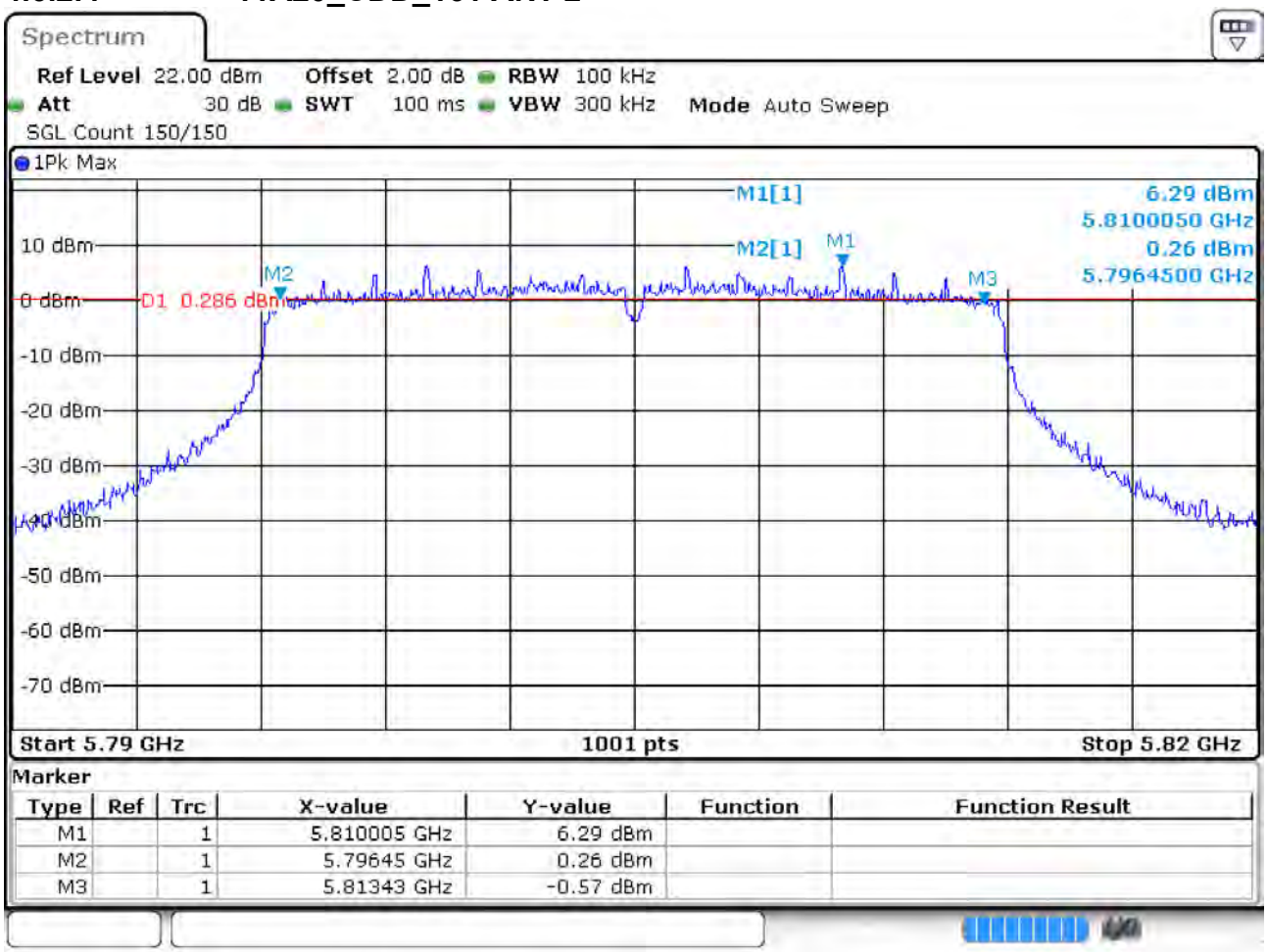
4.6.2.4 11A20_CDD_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.810005 GHz	6.29 dBm		
M2		1	5.79645 GHz	0.26 dBm		
M3		1	5.81343 GHz	-0.57 dBm		

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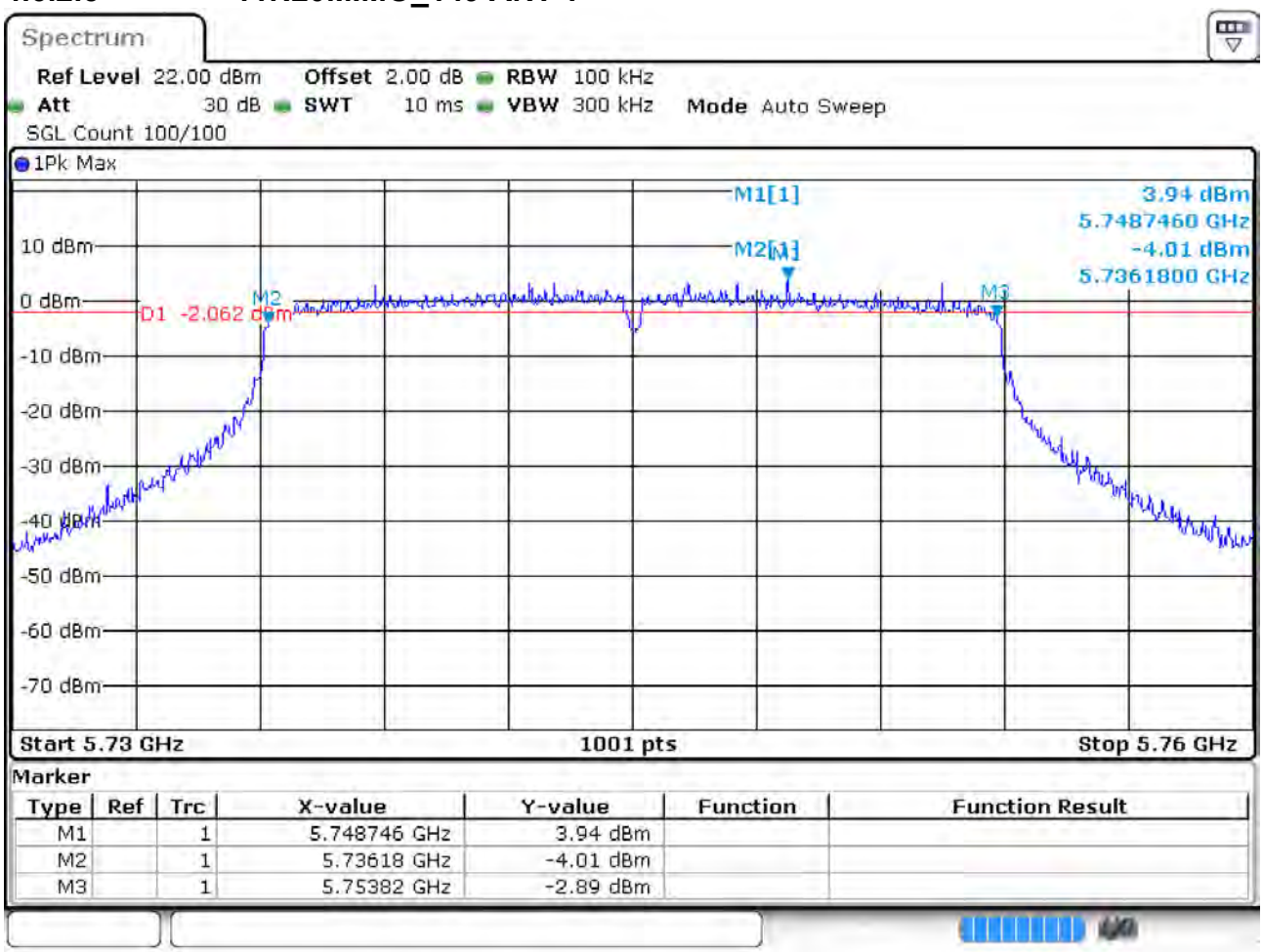
4.6.2.5 11N20MIMO_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.748746 GHz	3.94 dBm		
M2		1	5.73618 GHz	-4.01 dBm		
M3		1	5.75382 GHz	-2.89 dBm		

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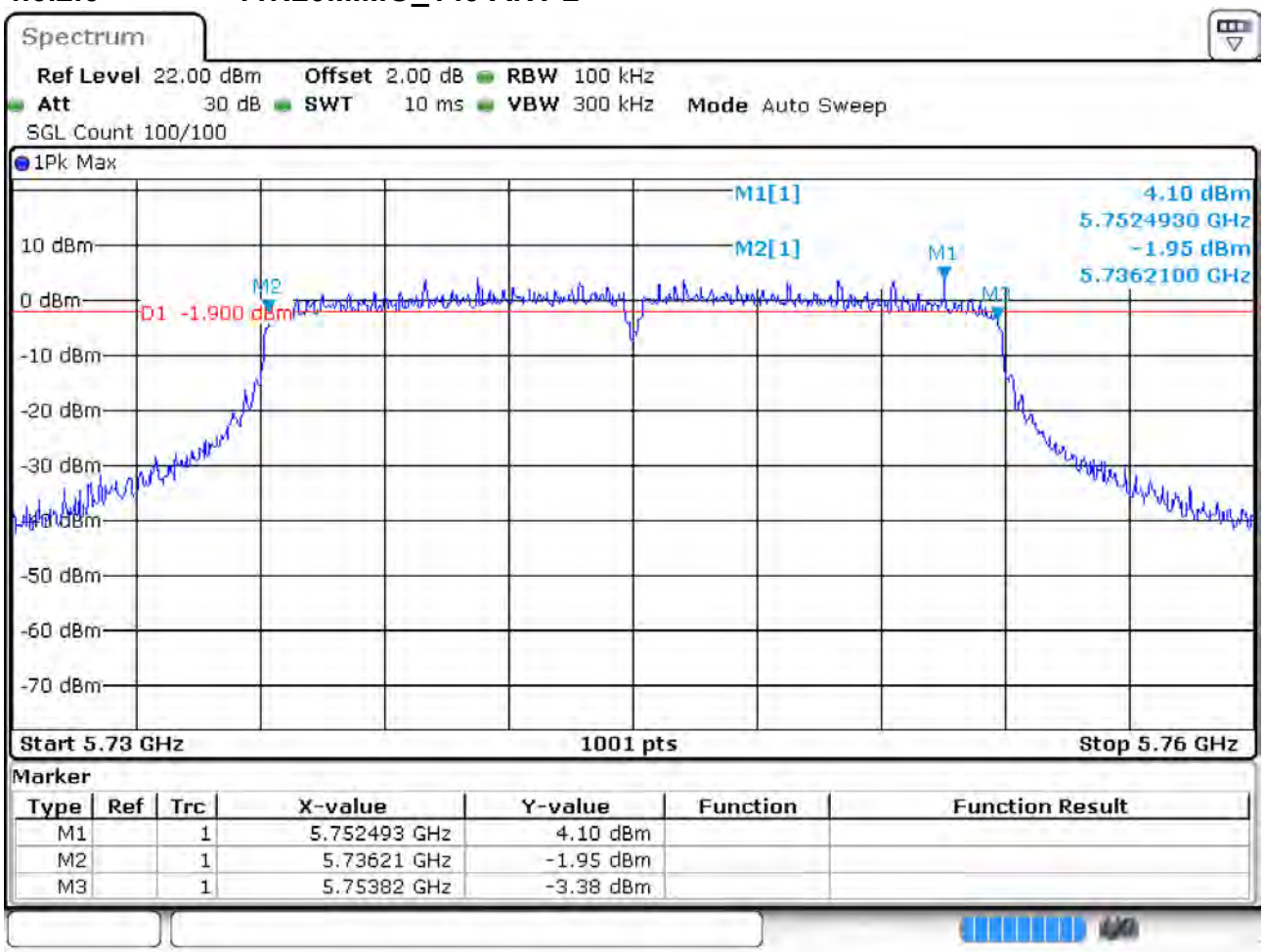
4.6.2.6 11N20MIMO_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.752493 GHz	4.10 dBm		
M2		1	5.73621 GHz	-1.95 dBm		
M3		1	5.75382 GHz	-3.38 dBm		

Date: 9.APR.2020 07:41:31

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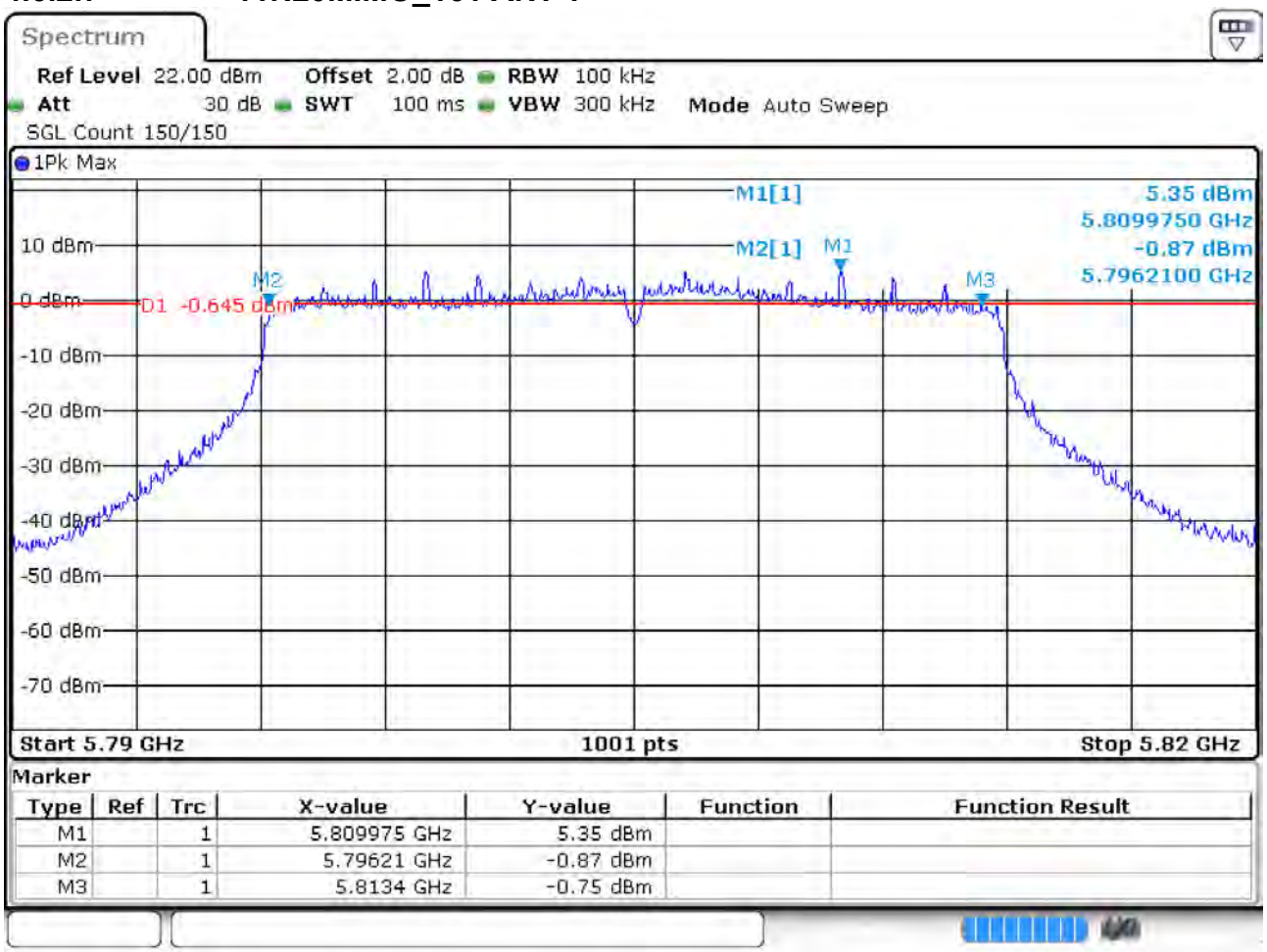
4.6.2.7 11N20MIMO_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.809975 GHz	5.35 dBm		
M2		1	5.79621 GHz	-0.87 dBm		
M3		1	5.8134 GHz	-0.75 dBm		

Date: 21.APR.2020 06:47:53

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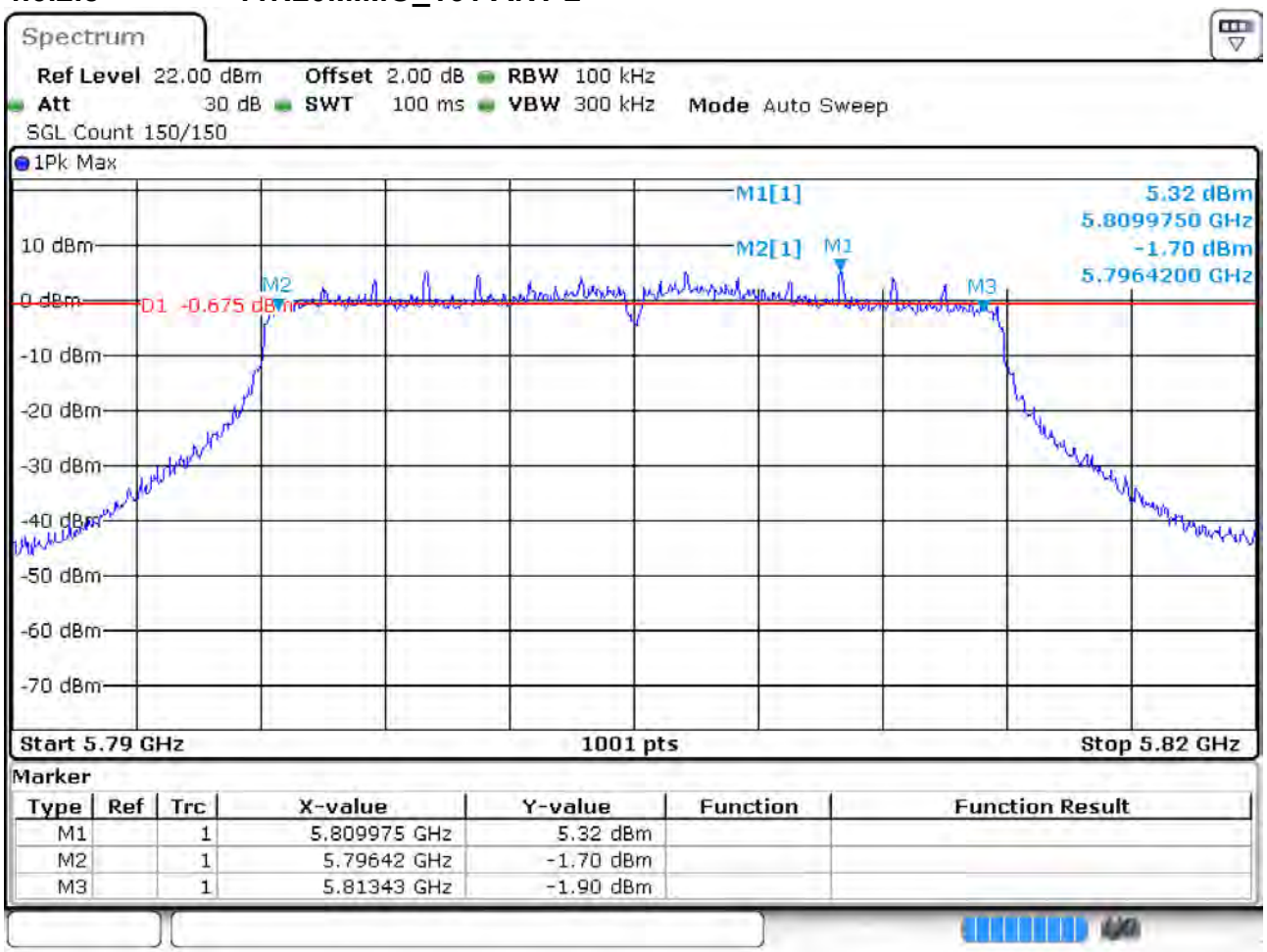
4.6.2.8 11N20MIMO_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.809975 GHz	5.32 dBm		
M2		1	5.79642 GHz	-1.70 dBm		
M3		1	5.81343 GHz	-1.90 dBm		

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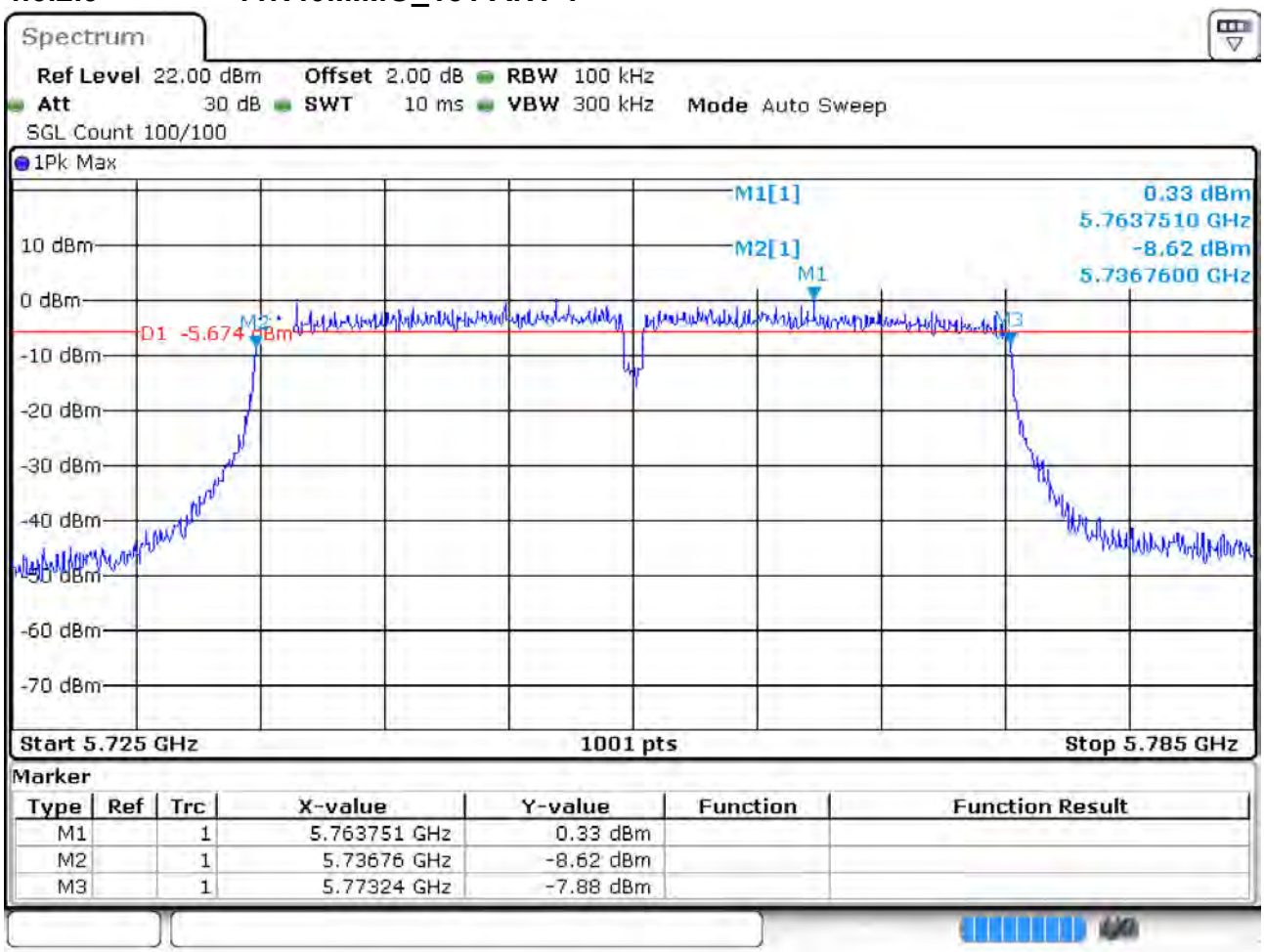
4.6.2.9 11N40MIMO_151 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.763751 GHz	0.33 dBm		
M2		1	5.73676 GHz	-8.62 dBm		
M3		1	5.77324 GHz	-7.88 dBm		

Date: 9.APR.2020 08:17:00

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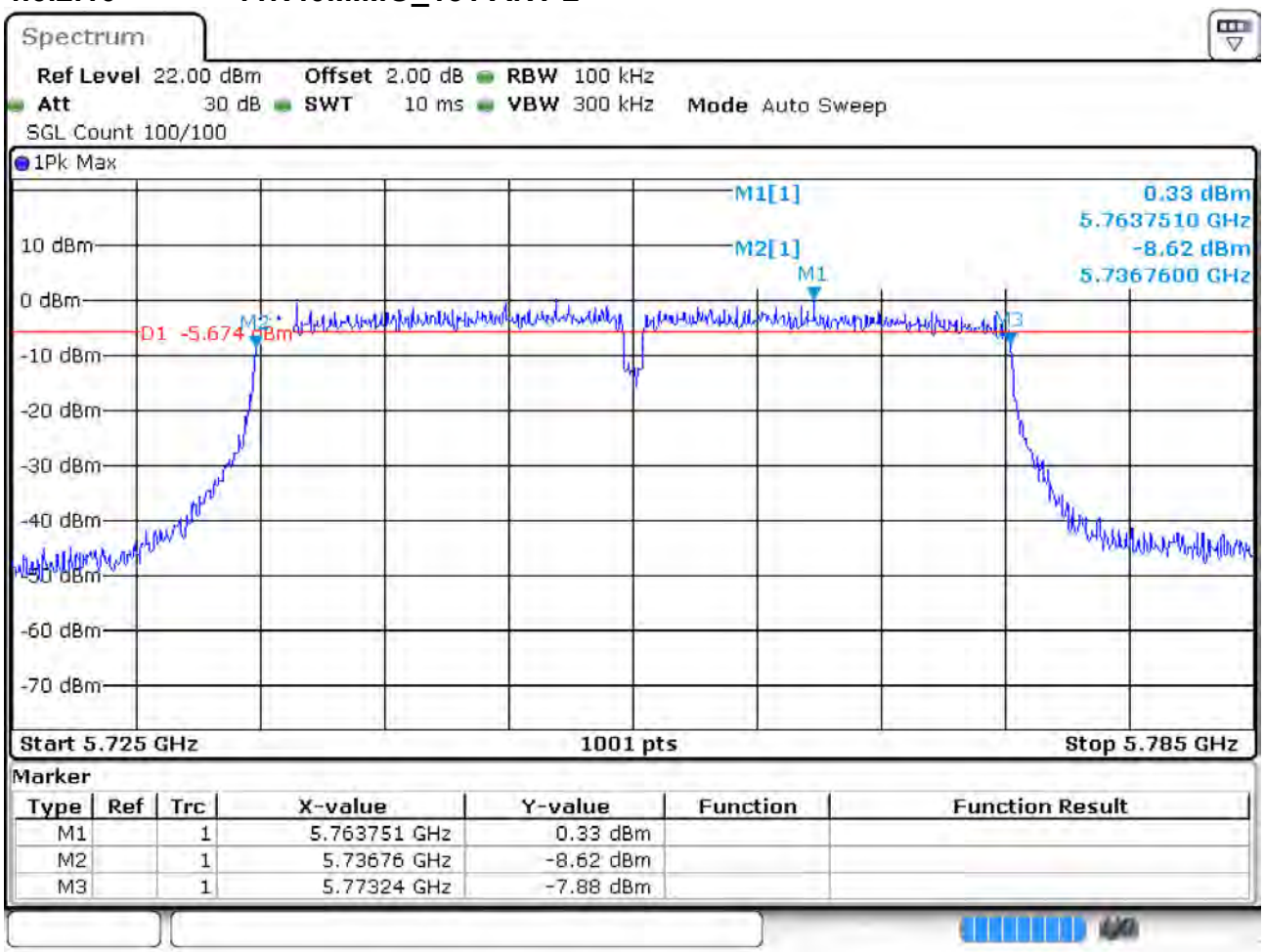
4.6.2.10 11N40MIMO_151 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.763751 GHz	0.33 dBm		
M2		1	5.73676 GHz	-8.62 dBm		
M3		1	5.77324 GHz	-7.88 dBm		

Date: 9.APR.2020 08:17:00

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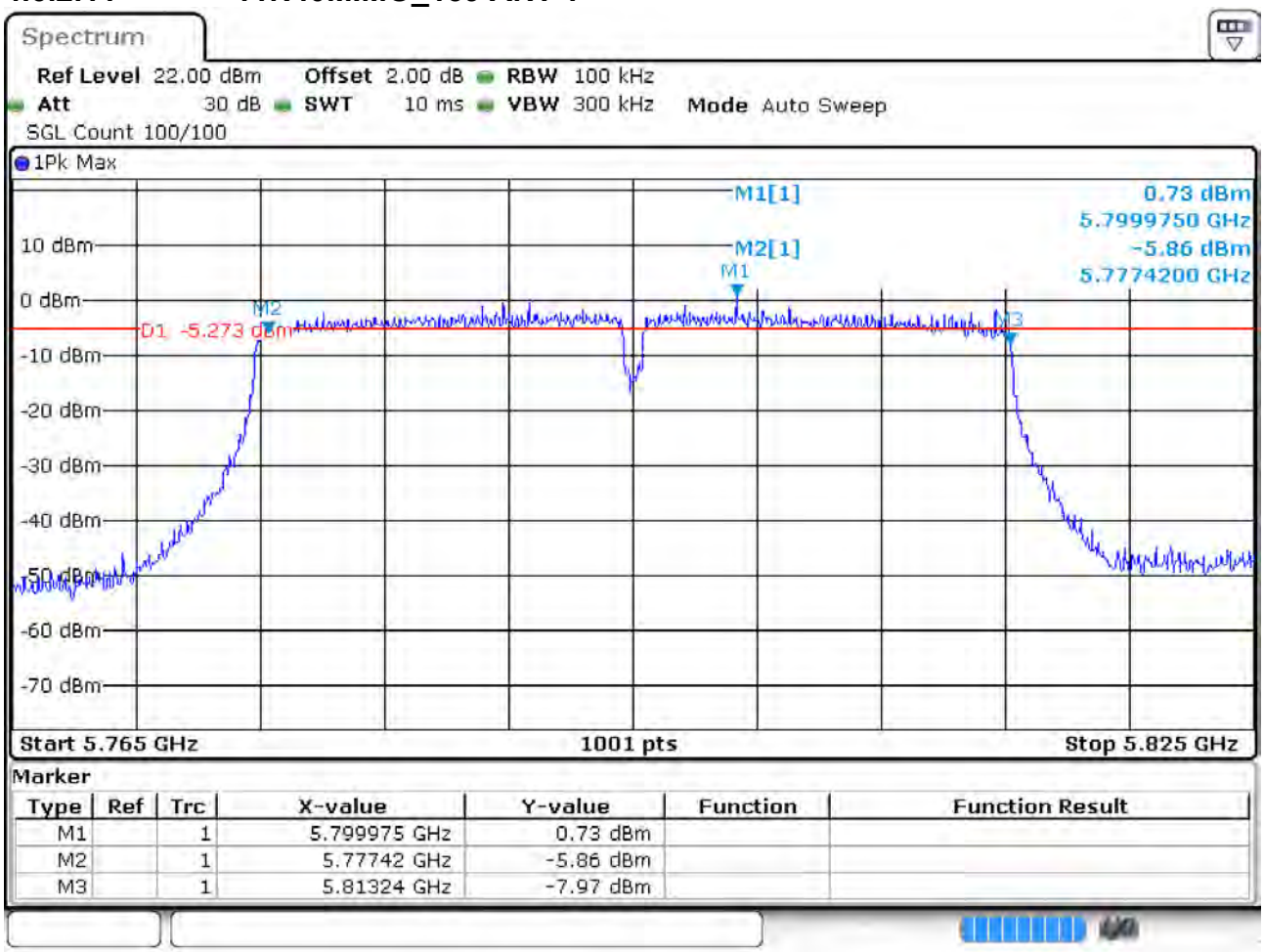
4.6.2.11 11N40MIMO_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.799975 GHz	0.73 dBm		
M2		1	5.77742 GHz	-5.86 dBm		
M3		1	5.81324 GHz	-7.97 dBm		

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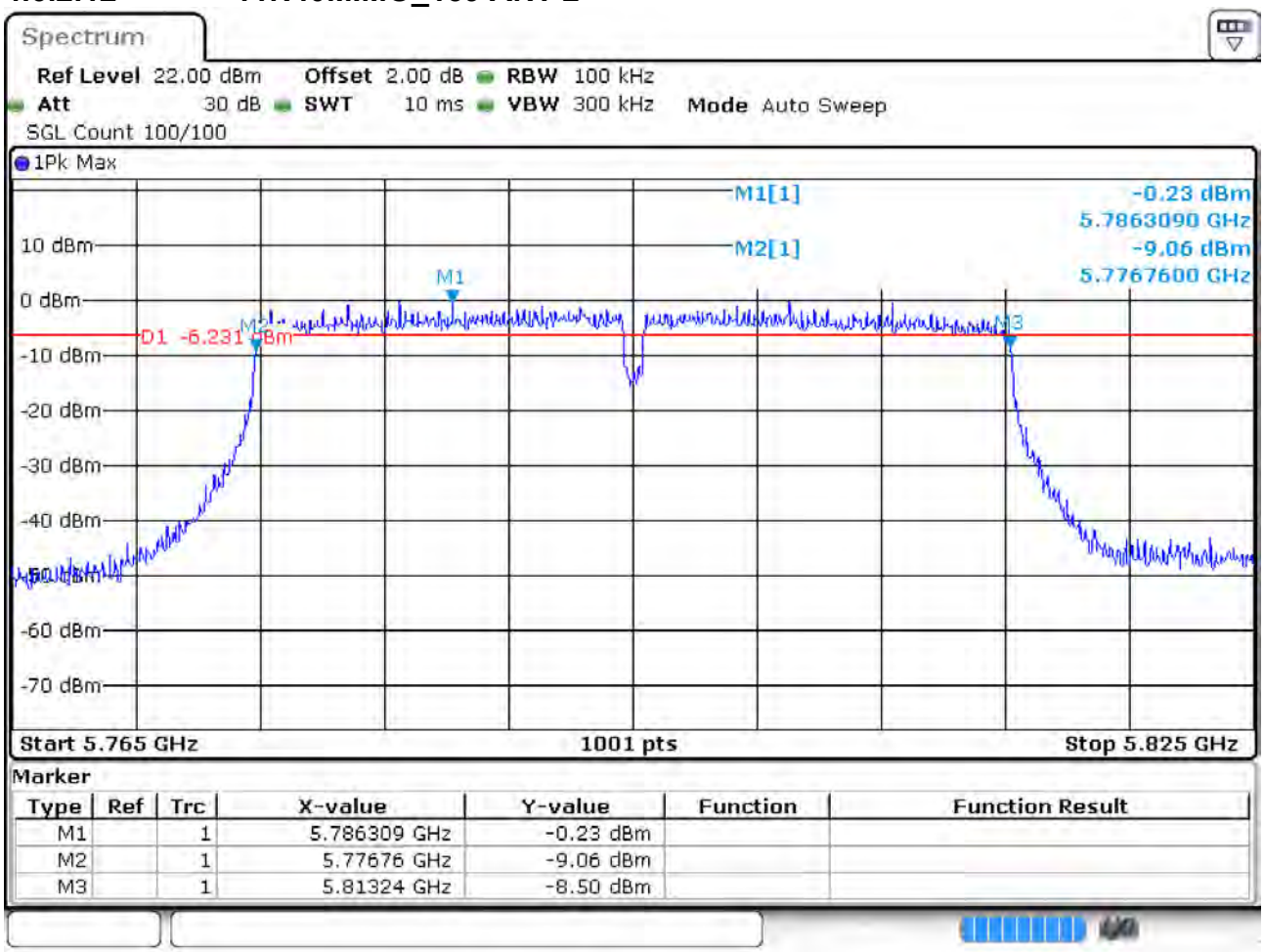
4.6.2.12 11N40MIMO_159 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.786309 GHz	-0.23 dBm		
M2		1	5.77676 GHz	-9.06 dBm		
M3		1	5.81324 GHz	-8.50 dBm		

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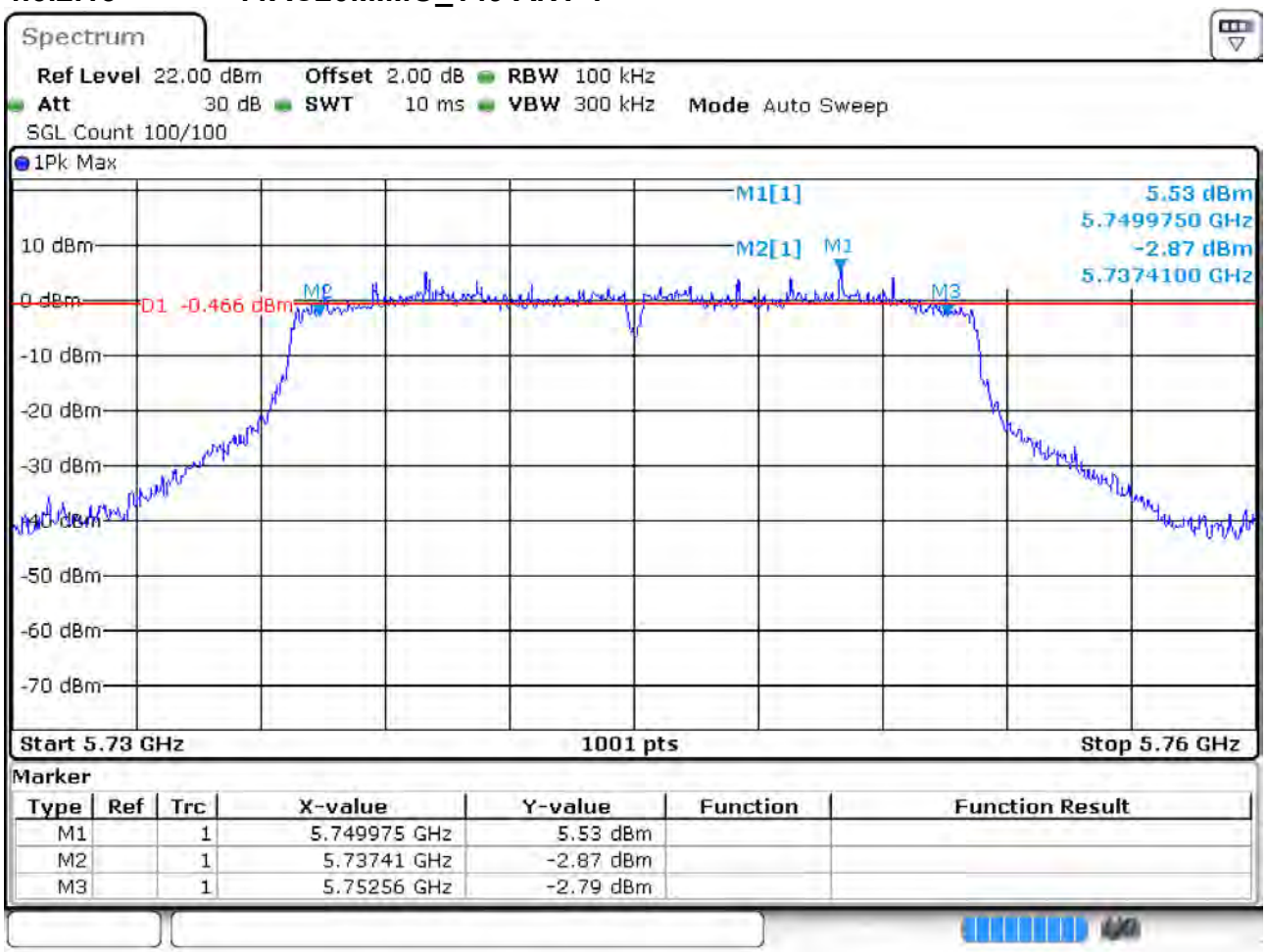
4.6.2.13 11AC20MIMO_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749975 GHz	5.53 dBm		
M2		1	5.73741 GHz	-2.87 dBm		
M3		1	5.75256 GHz	-2.79 dBm		

Date: 9.APR.2020 04:13:16

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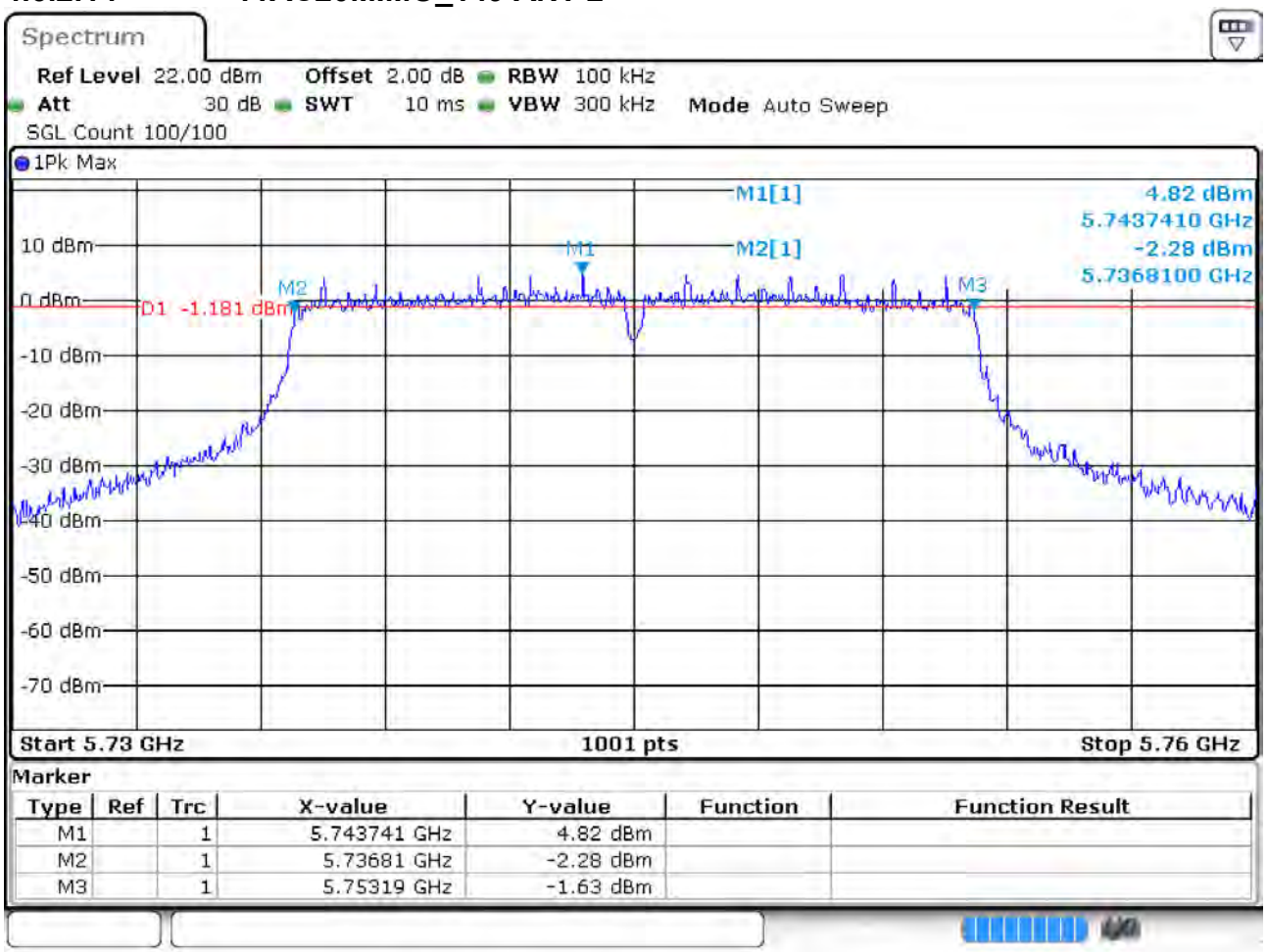
4.6.2.14 11AC20MIMO_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.743741 GHz	4.82 dBm		
M2		1	5.73681 GHz	-2.28 dBm		
M3		1	5.75319 GHz	-1.63 dBm		

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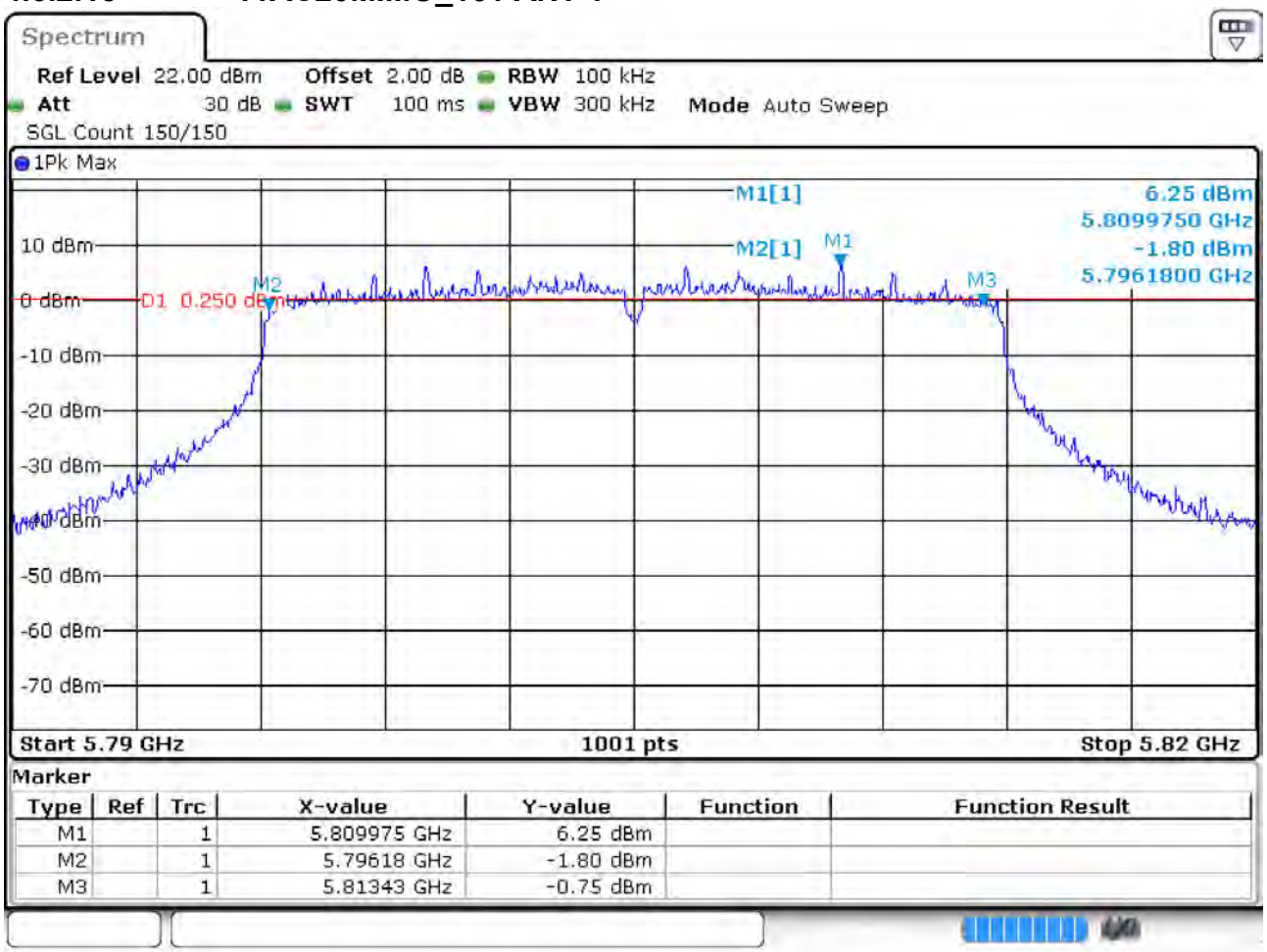
4.6.2.15 11AC20MIMO_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.809975 GHz	6.25 dBm		
M2		1	5.79618 GHz	-1.80 dBm		
M3		1	5.81343 GHz	-0.75 dBm		

Date: 21.APR.2020 06:56:25

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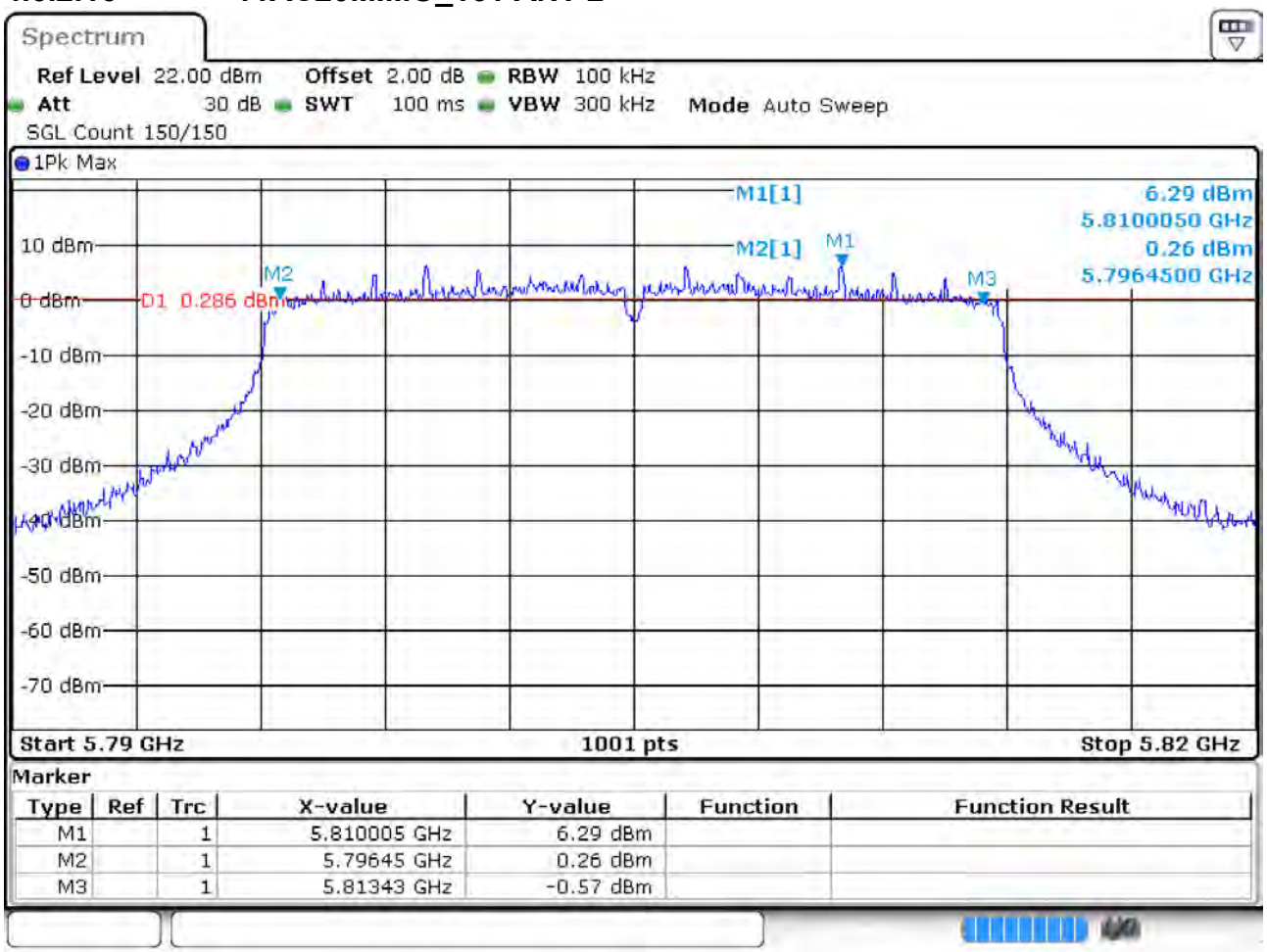
4.6.2.16 11AC20MIMO_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.810005 GHz	6.29 dBm		
M2		1	5.79645 GHz	0.26 dBm		
M3		1	5.81343 GHz	-0.57 dBm		

Date: 21.APR.2020 06:54:51

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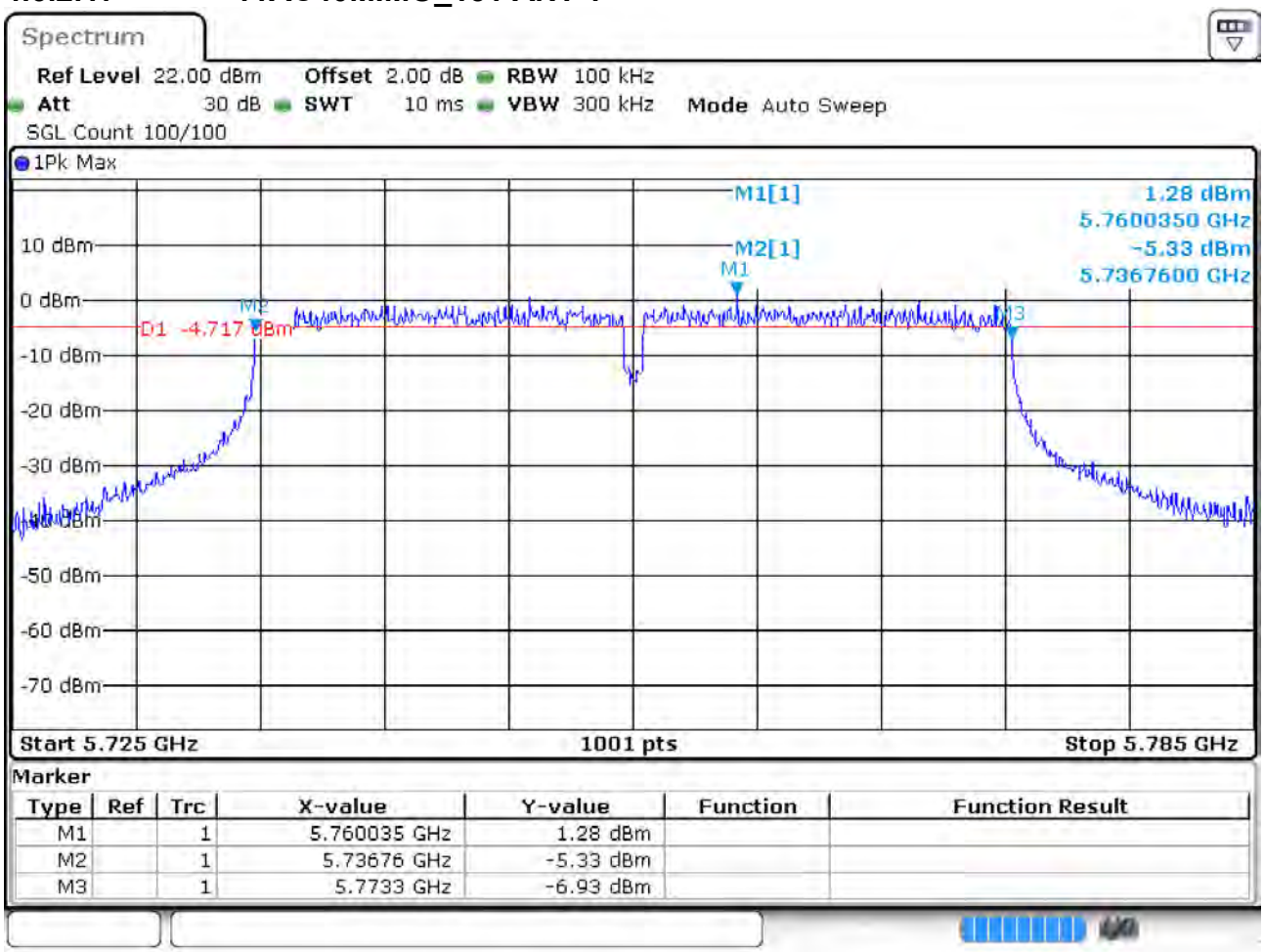
4.6.2.17 11AC40MIMO_151 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.760035 GHz	1.28 dBm		
M2		1	5.73676 GHz	-5.33 dBm		
M3		1	5.7733 GHz	-6.93 dBm		

Date: 9.APR.2020 07:00:11

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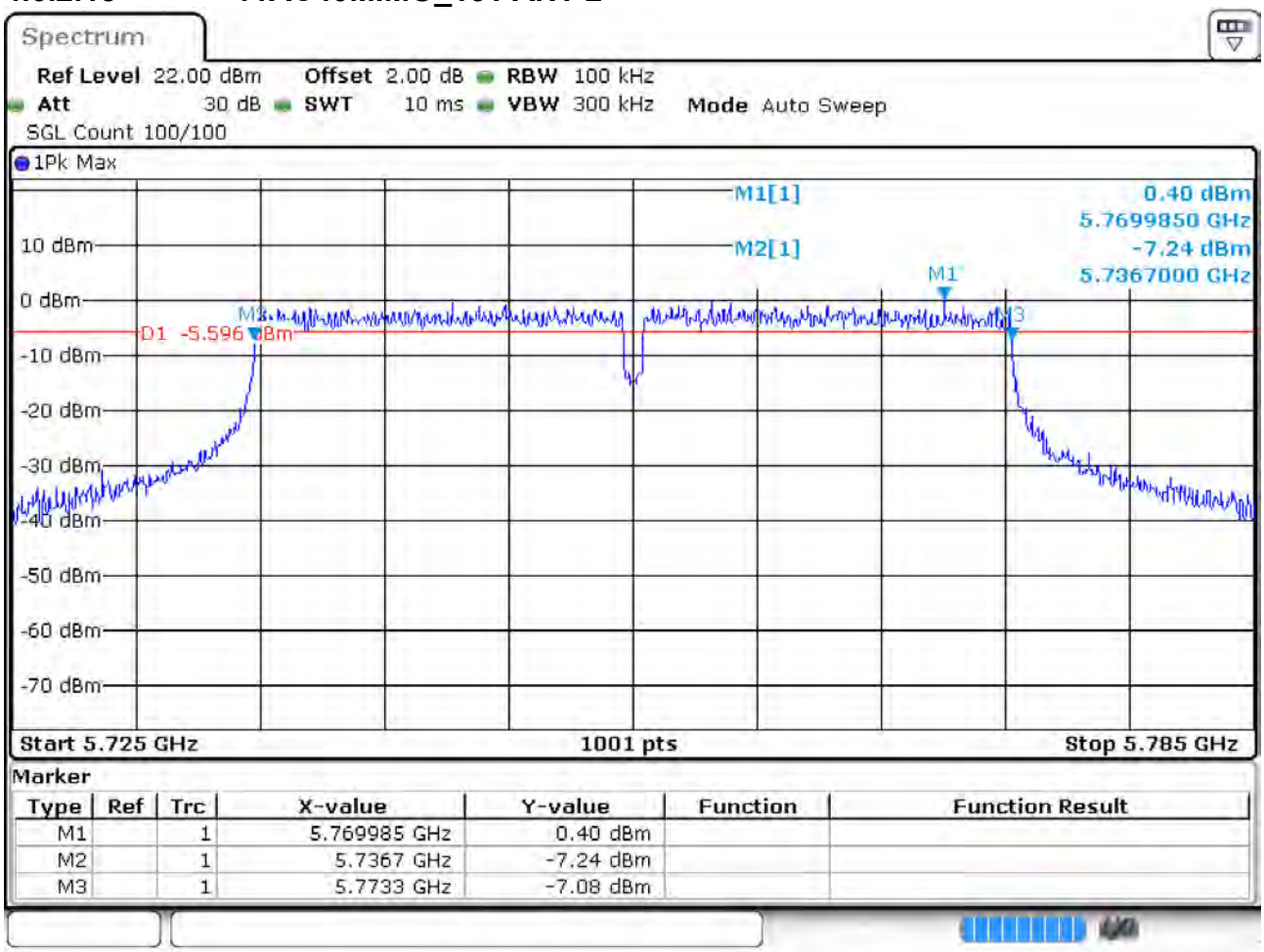
4.6.2.18 11AC40MIMO_151 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.769985 GHz	0.40 dBm		
M2		1	5.7367 GHz	-7.24 dBm		
M3		1	5.7733 GHz	-7.08 dBm		

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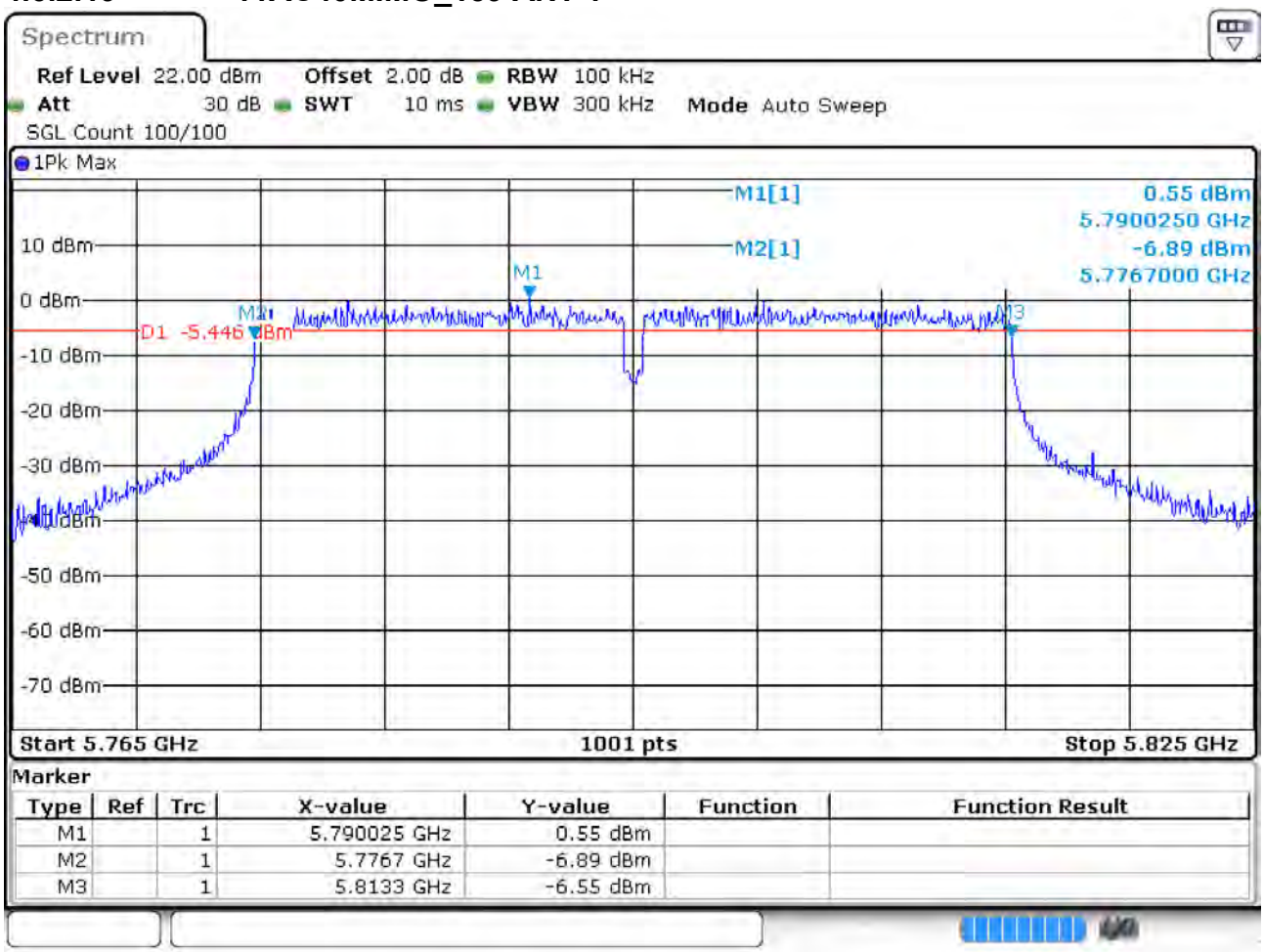
4.6.2.19 11AC40MIMO_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.790025 GHz	0.55 dBm		
M2		1	5.7767 GHz	-6.89 dBm		
M3		1	5.8133 GHz	-6.55 dBm		

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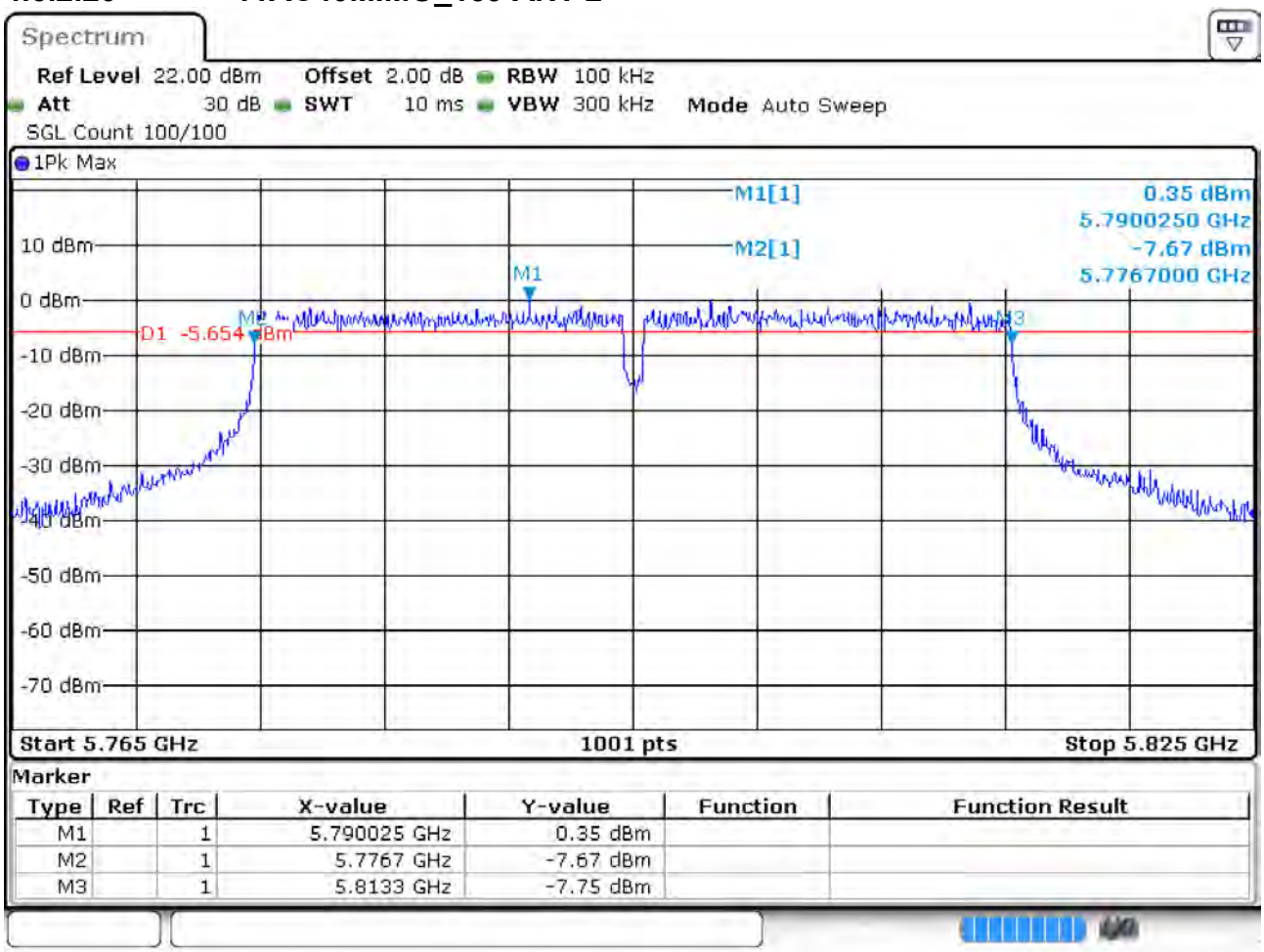
4.6.2.20 11AC40MIMO_159 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.790025 GHz	0.35 dBm		
M2		1	5.7767 GHz	-7.67 dBm		
M3		1	5.8133 GHz	-7.75 dBm		

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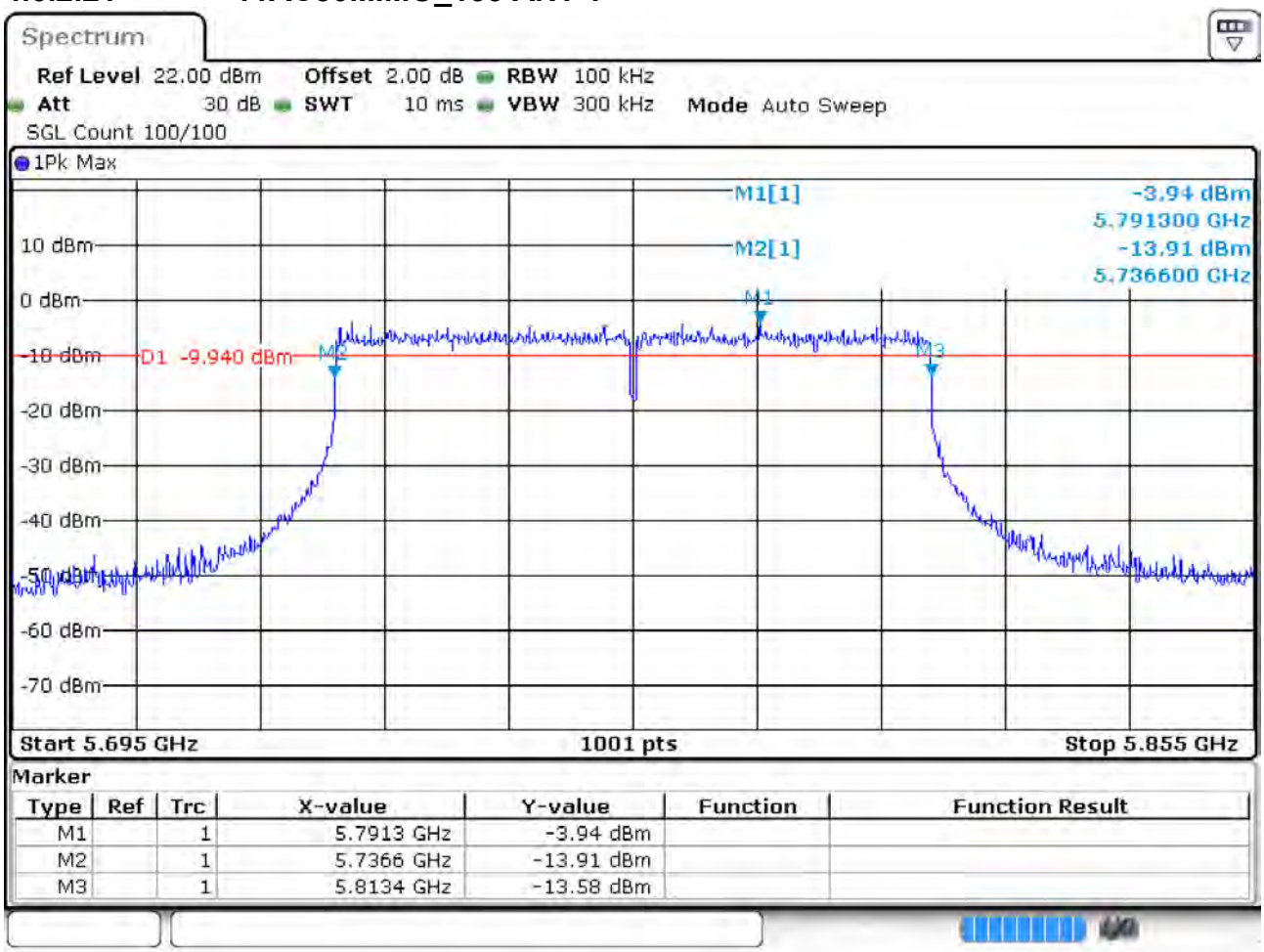
4.6.2.21 11AC80MIMO_155 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7913 GHz	-3.94 dBm		
M2		1	5.7366 GHz	-13.91 dBm		
M3		1	5.8134 GHz	-13.58 dBm		

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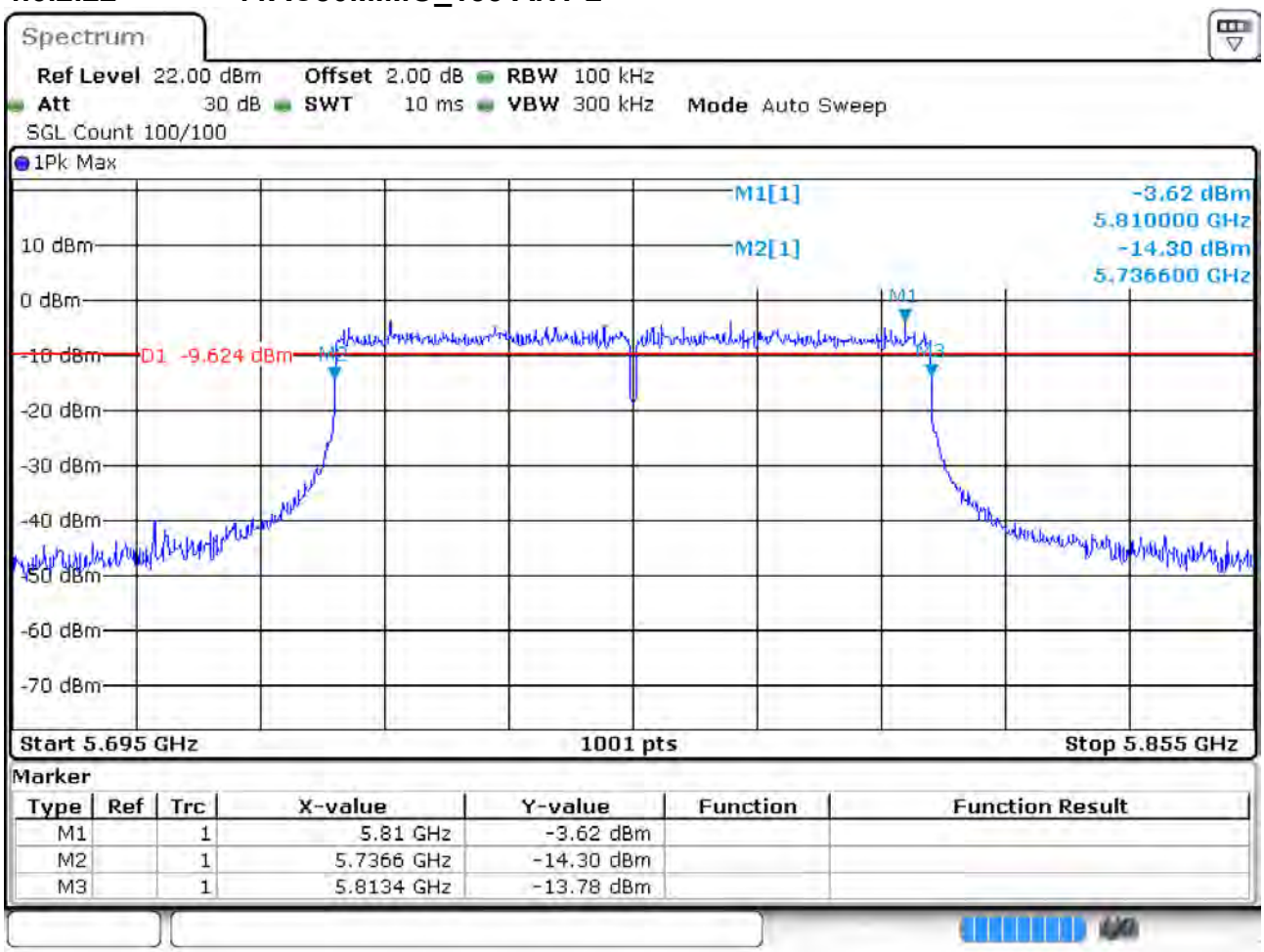
4.6.2.22 11AC80MIMO_155 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.81 GHz	-3.62 dBm		
M2		1	5.7366 GHz	-14.30 dBm		
M3		1	5.8134 GHz	-13.78 dBm		

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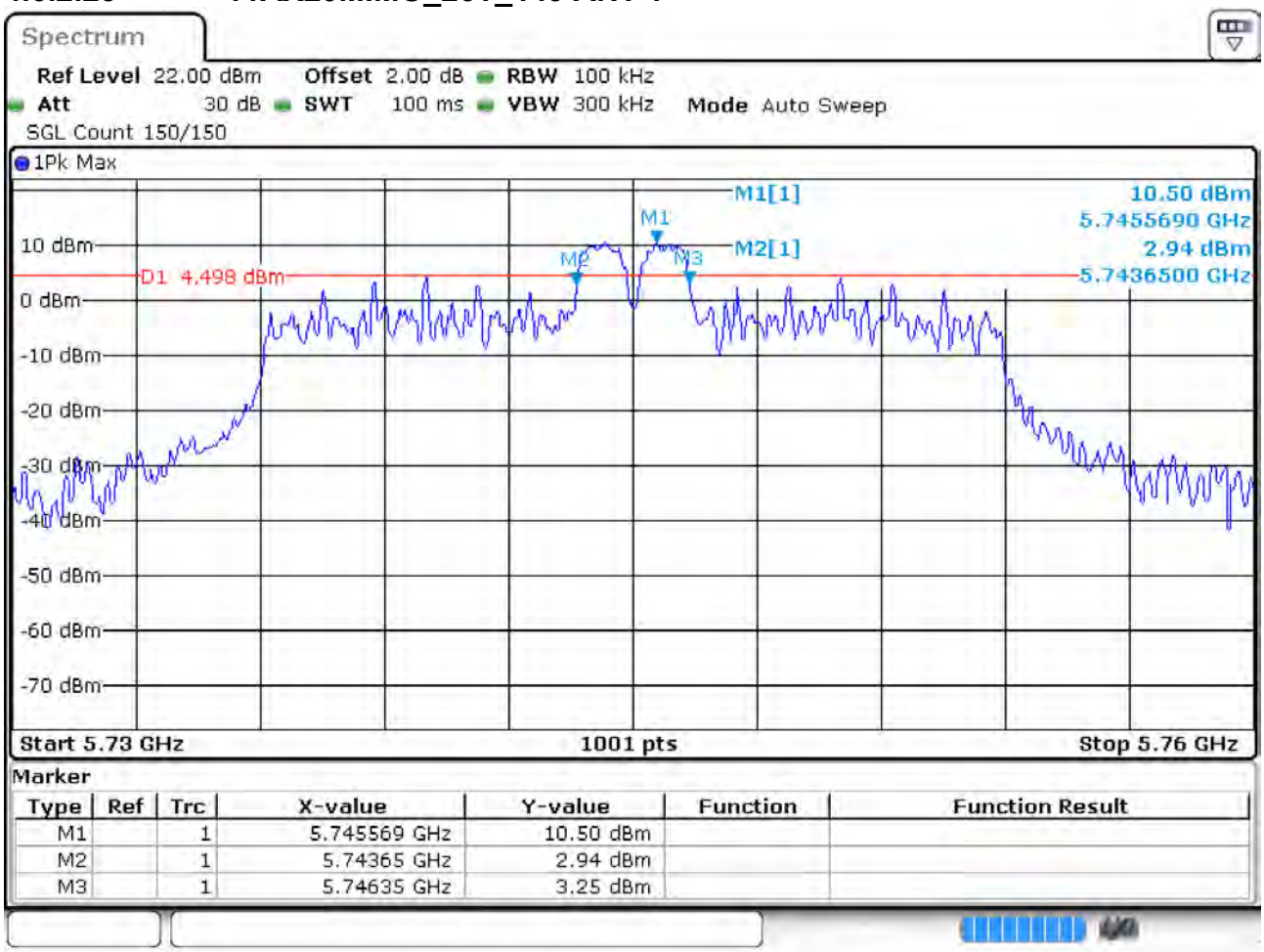
4.6.2.23 11AX20MIMO_26T_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.745569 GHz	10.50 dBm		
M2		1	5.74365 GHz	2.94 dBm		
M3		1	5.74635 GHz	3.25 dBm		

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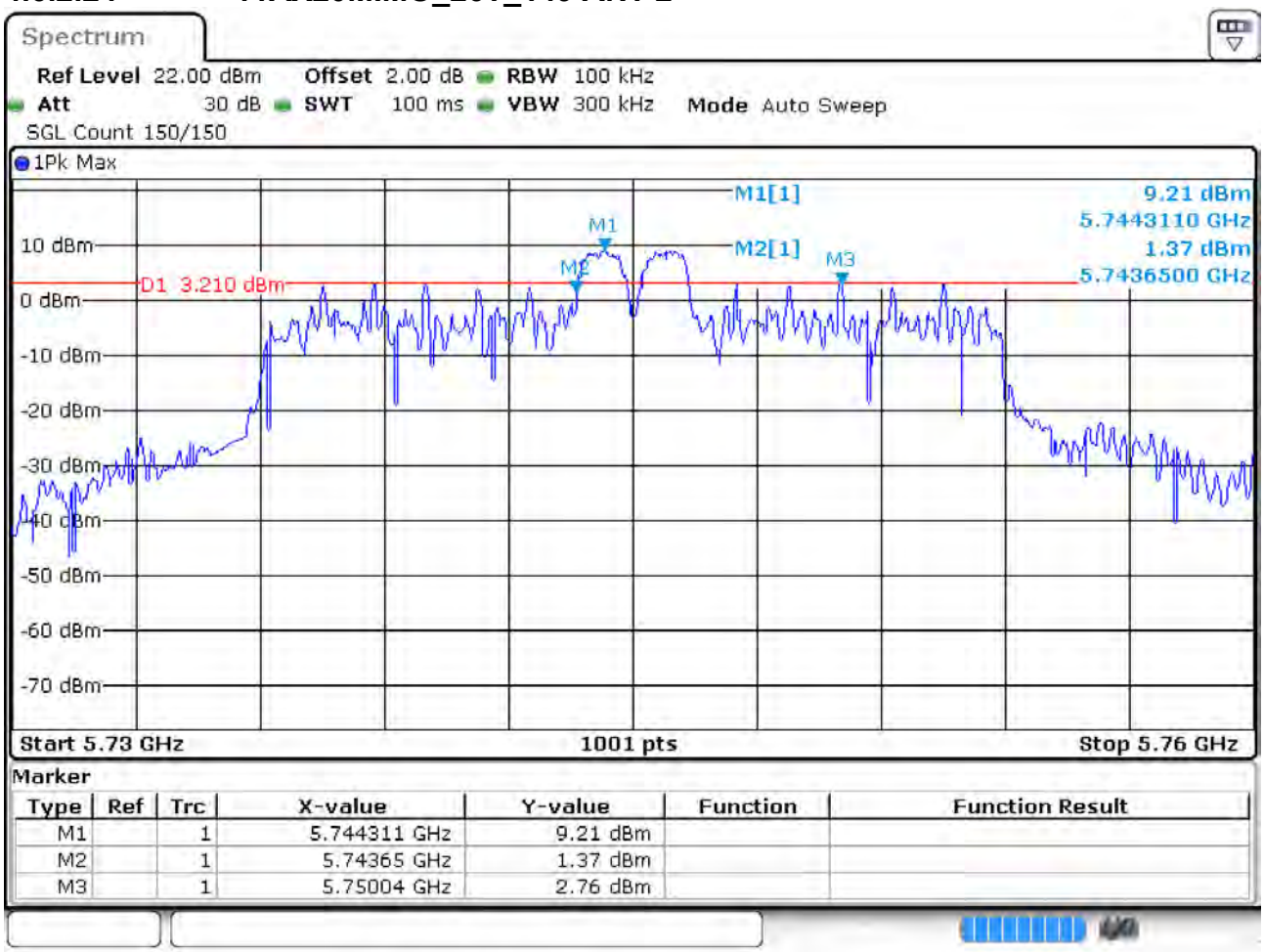
4.6.2.24 11AX20MIMO_26T_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.744311 GHz	9.21 dBm		
M2		1	5.74365 GHz	1.37 dBm		
M3		1	5.75004 GHz	2.76 dBm		

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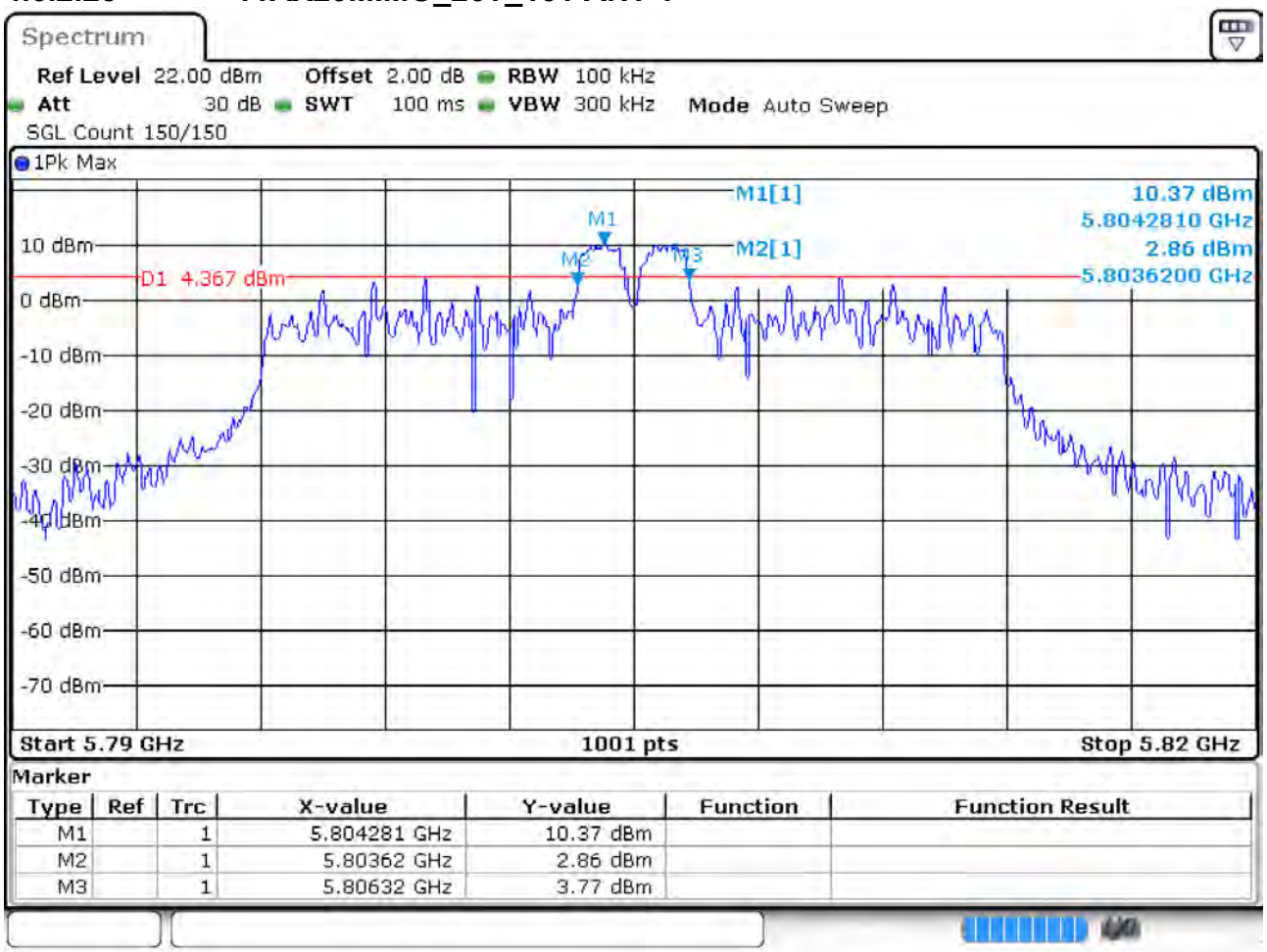
4.6.2.25 11AX20MIMO_26T_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.804281 GHz	10.37 dBm		
M2		1	5.80362 GHz	2.86 dBm		
M3		1	5.80632 GHz	3.77 dBm		

Date: 26.APR.2020 08:45:59

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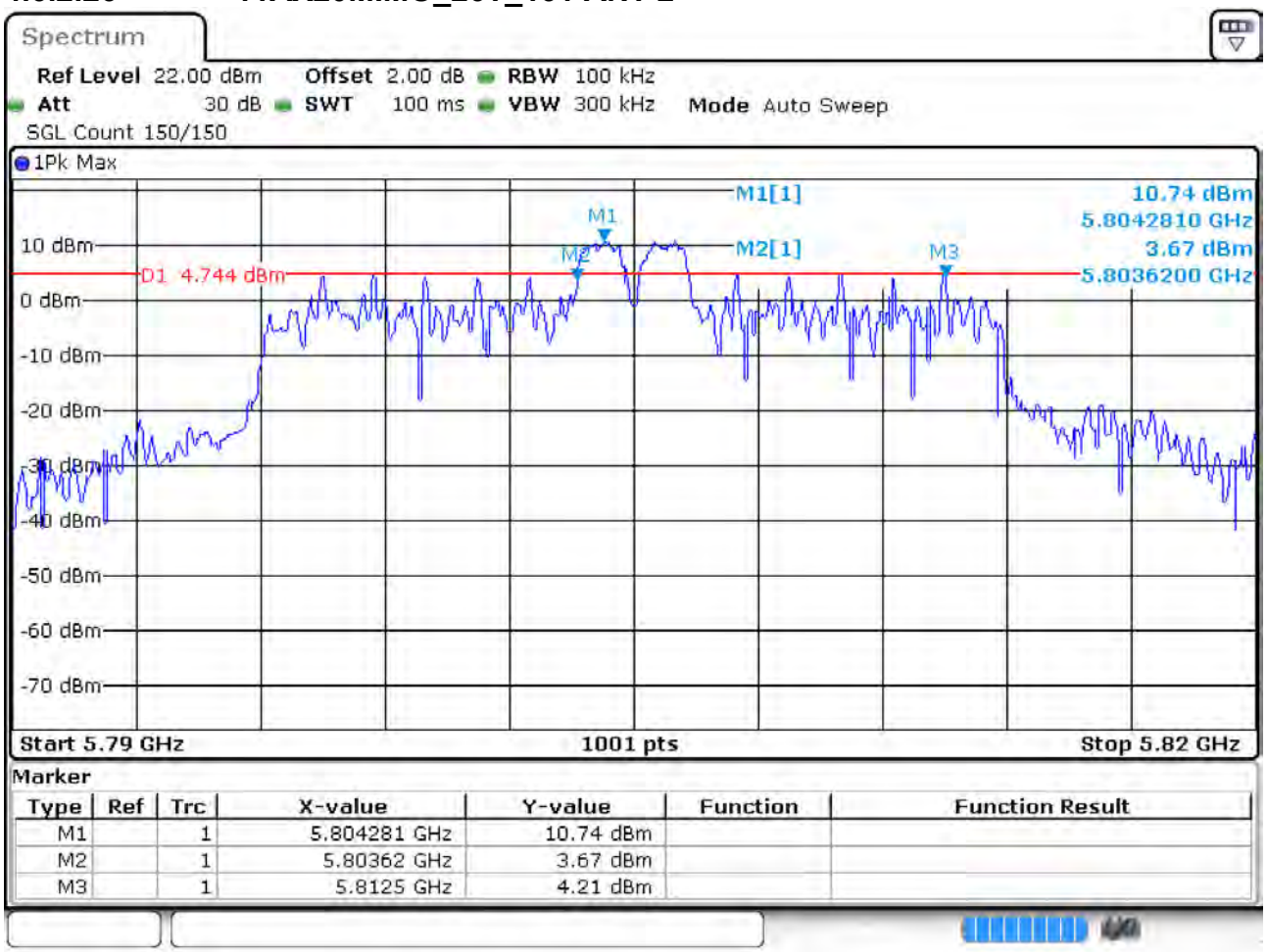
4.6.2.26 11AX20MIMO_26T_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.804281 GHz	10.74 dBm		
M2		1	5.80362 GHz	3.67 dBm		
M3		1	5.8125 GHz	4.21 dBm		

Date: 26.APR.2020 08:49:21

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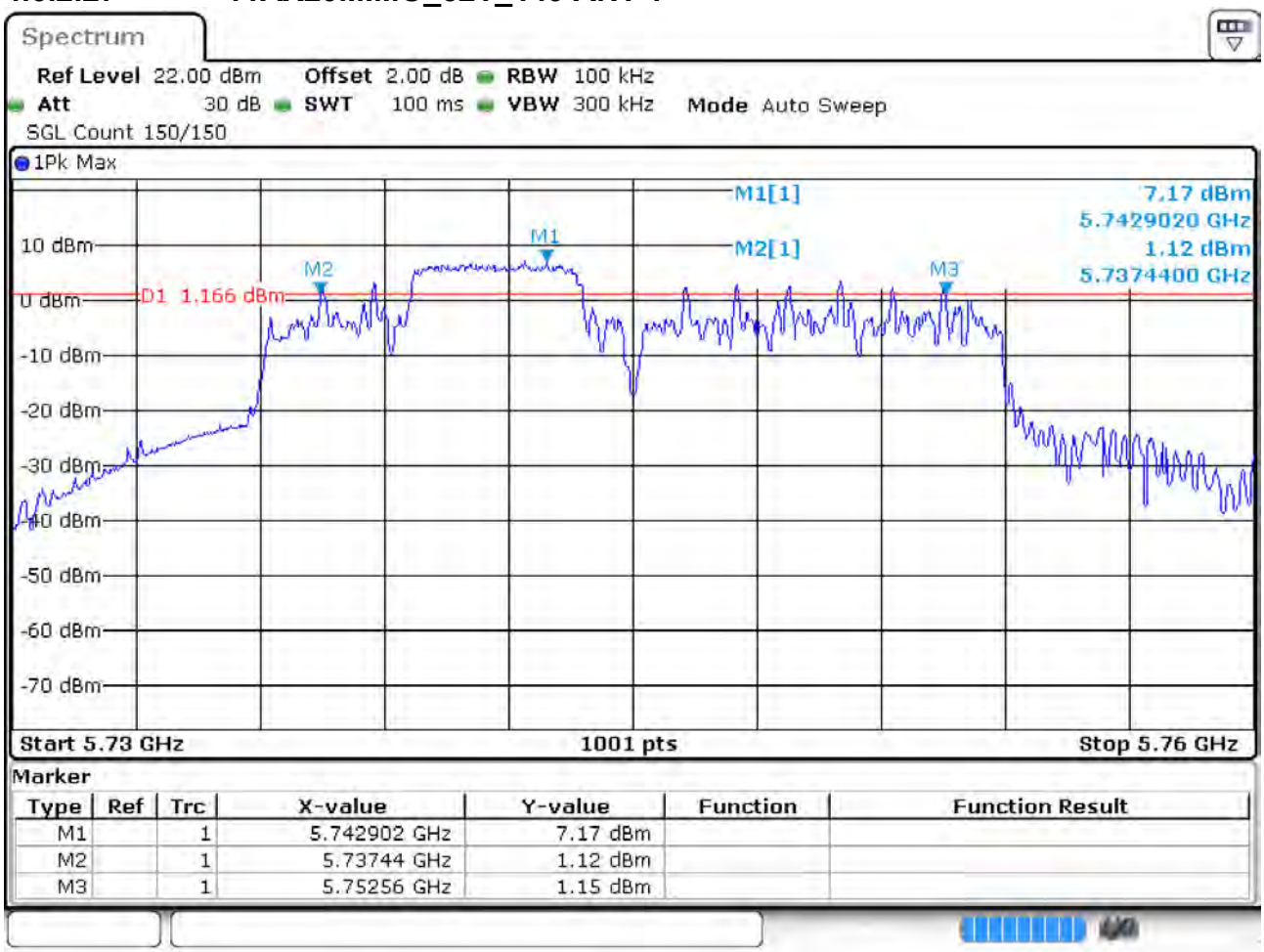
4.6.2.27 11AX20MIMO_52T_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.742902 GHz	7.17 dBm		
M2		1	5.73744 GHz	1.12 dBm		
M3		1	5.75256 GHz	1.15 dBm		

Date: 11.APR.2020 08:28:23

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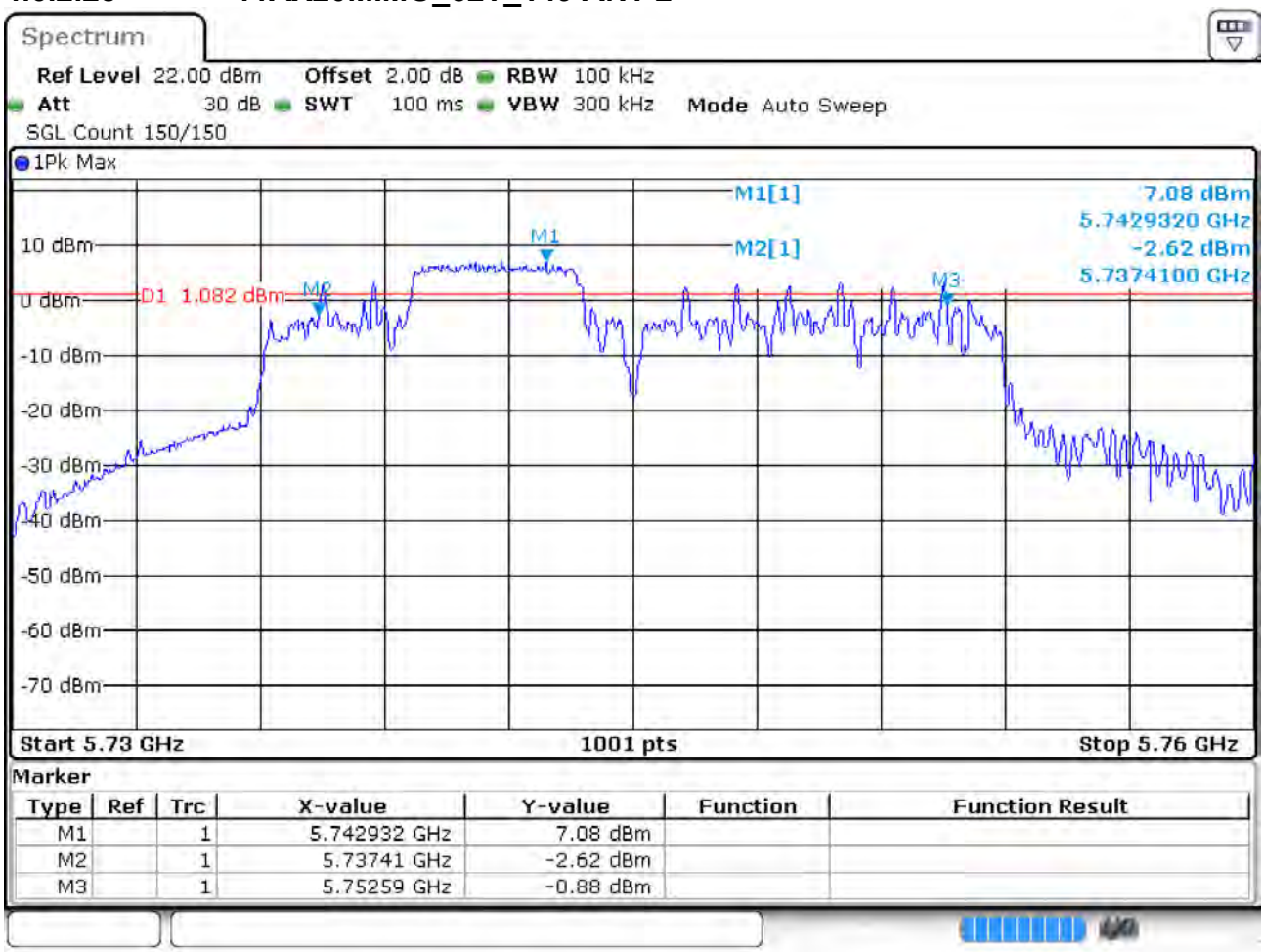
4.6.2.28 11AX20MIMO_52T_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.742932 GHz	7.08 dBm		
M2		1	5.73741 GHz	-2.62 dBm		
M3		1	5.75259 GHz	-0.88 dBm		

Date: 11.APR.2020 09:01:26

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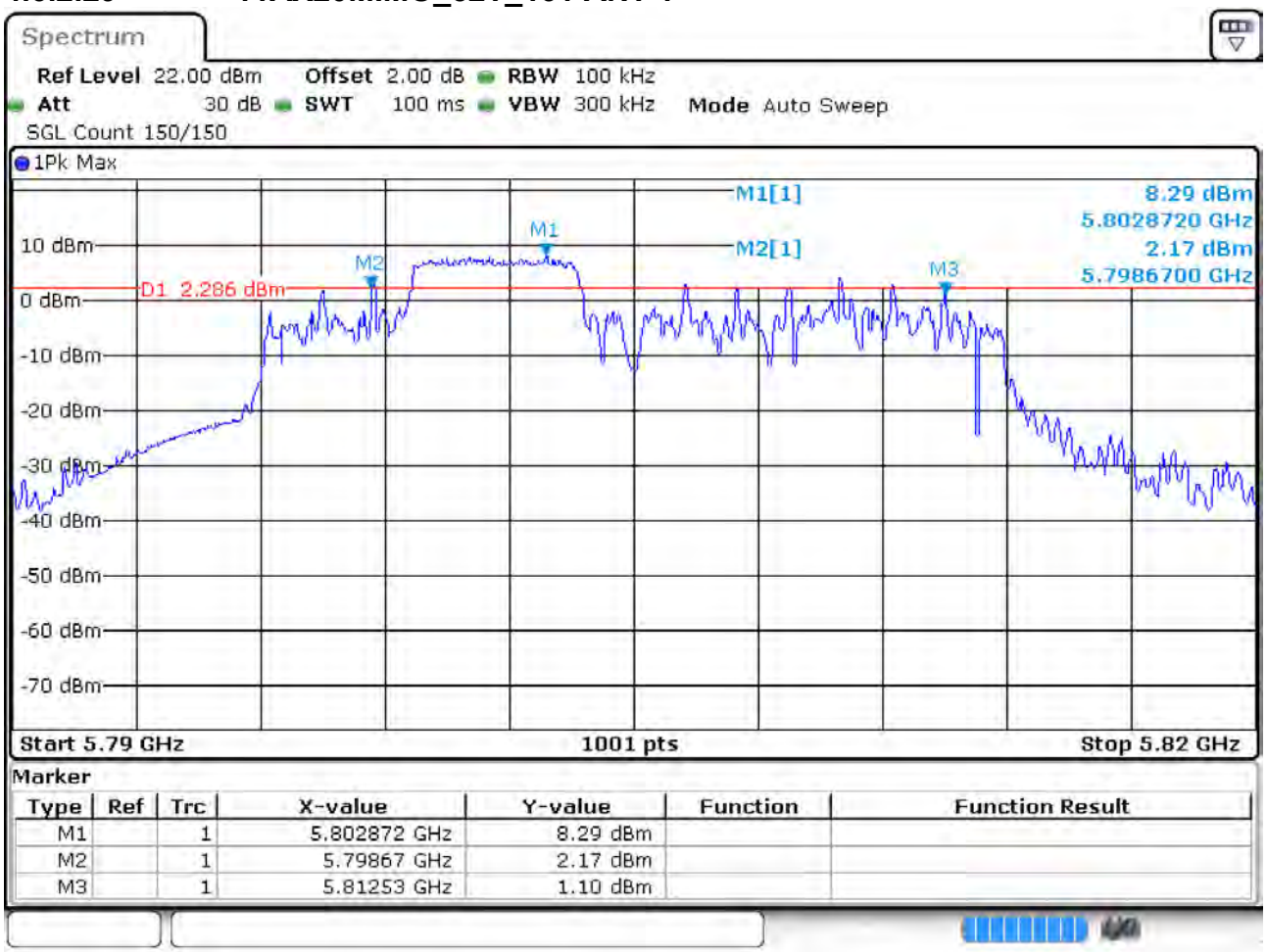
4.6.2.29 11AX20MIMO_52T_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.802872 GHz	8.29 dBm		
M2		1	5.79867 GHz	2.17 dBm		
M3		1	5.81253 GHz	1.10 dBm		

Date: 26.APR.2020 08:53:57

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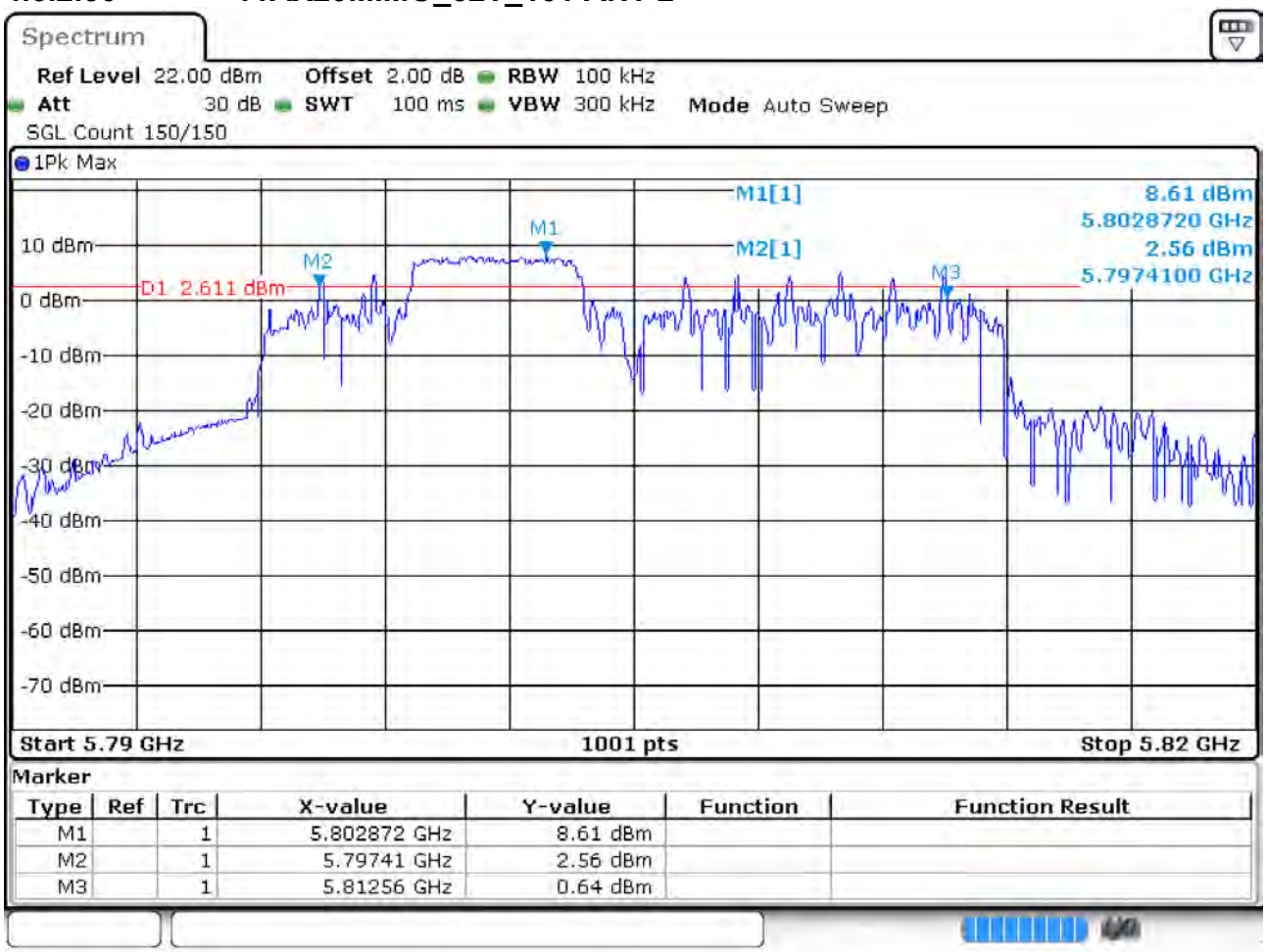
4.6.2.30 11AX20MIMO_52T_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.802872 GHz	8.61 dBm		
M2		1	5.79741 GHz	2.56 dBm		
M3		1	5.81256 GHz	0.64 dBm		

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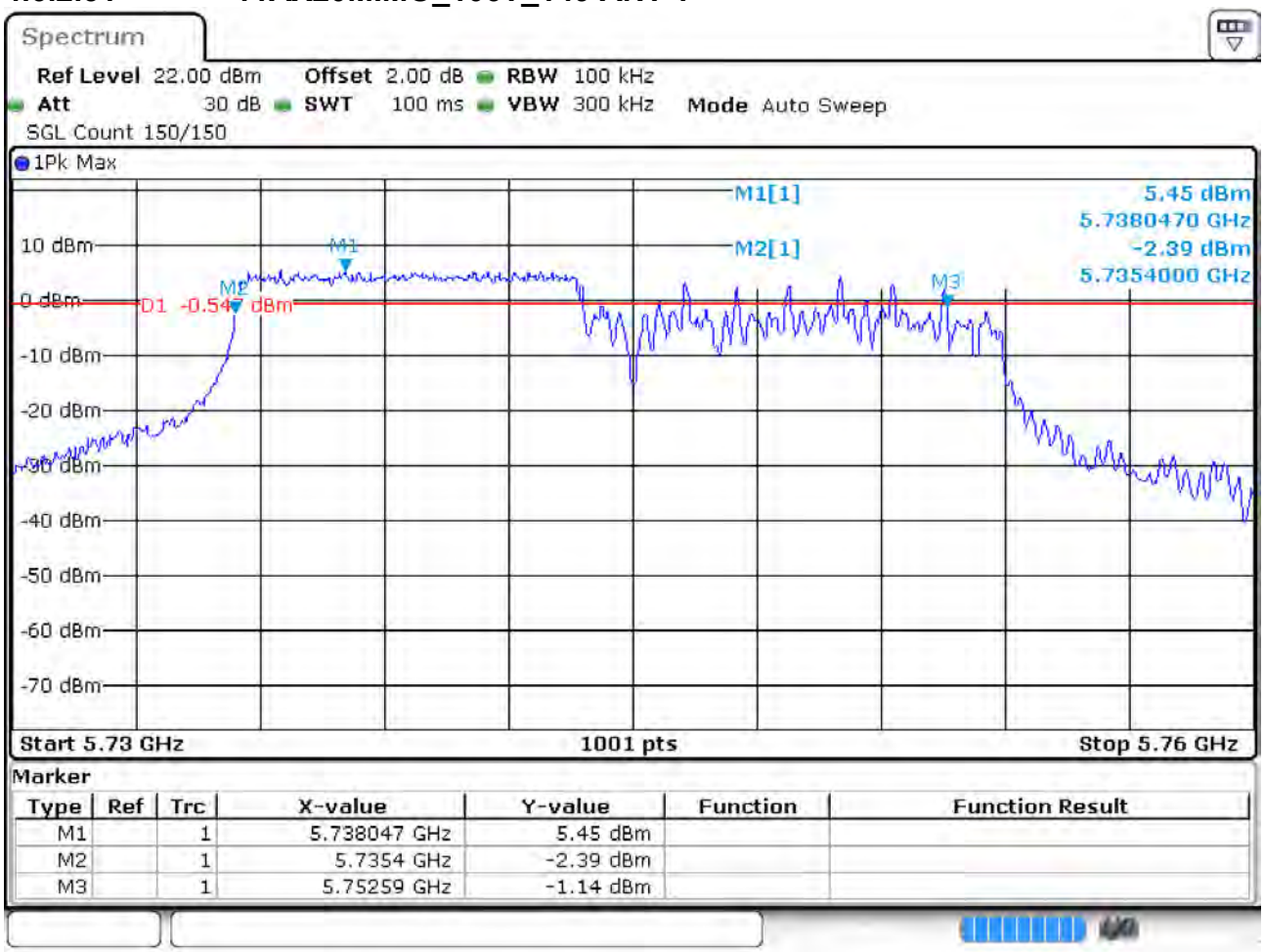
4.6.2.31 11AX20MIMO_106T_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.738047 GHz	5.45 dBm		
M2		1	5.7354 GHz	-2.39 dBm		
M3		1	5.75259 GHz	-1.14 dBm		

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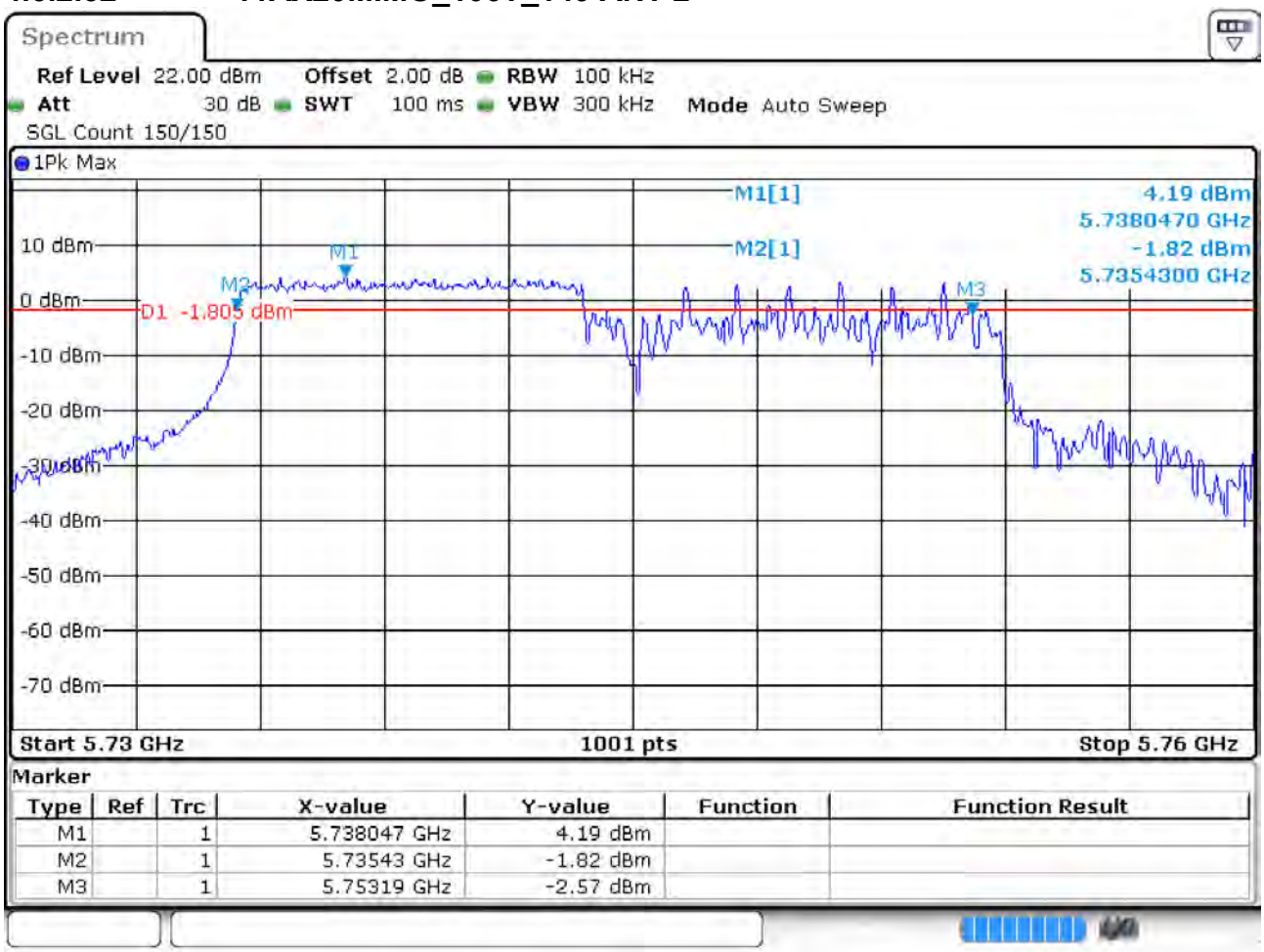
4.6.2.32 11AX20MIMO_106T_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.738047 GHz	4.19 dBm		
M2		1	5.73543 GHz	-1.82 dBm		
M3		1	5.75319 GHz	-2.57 dBm		

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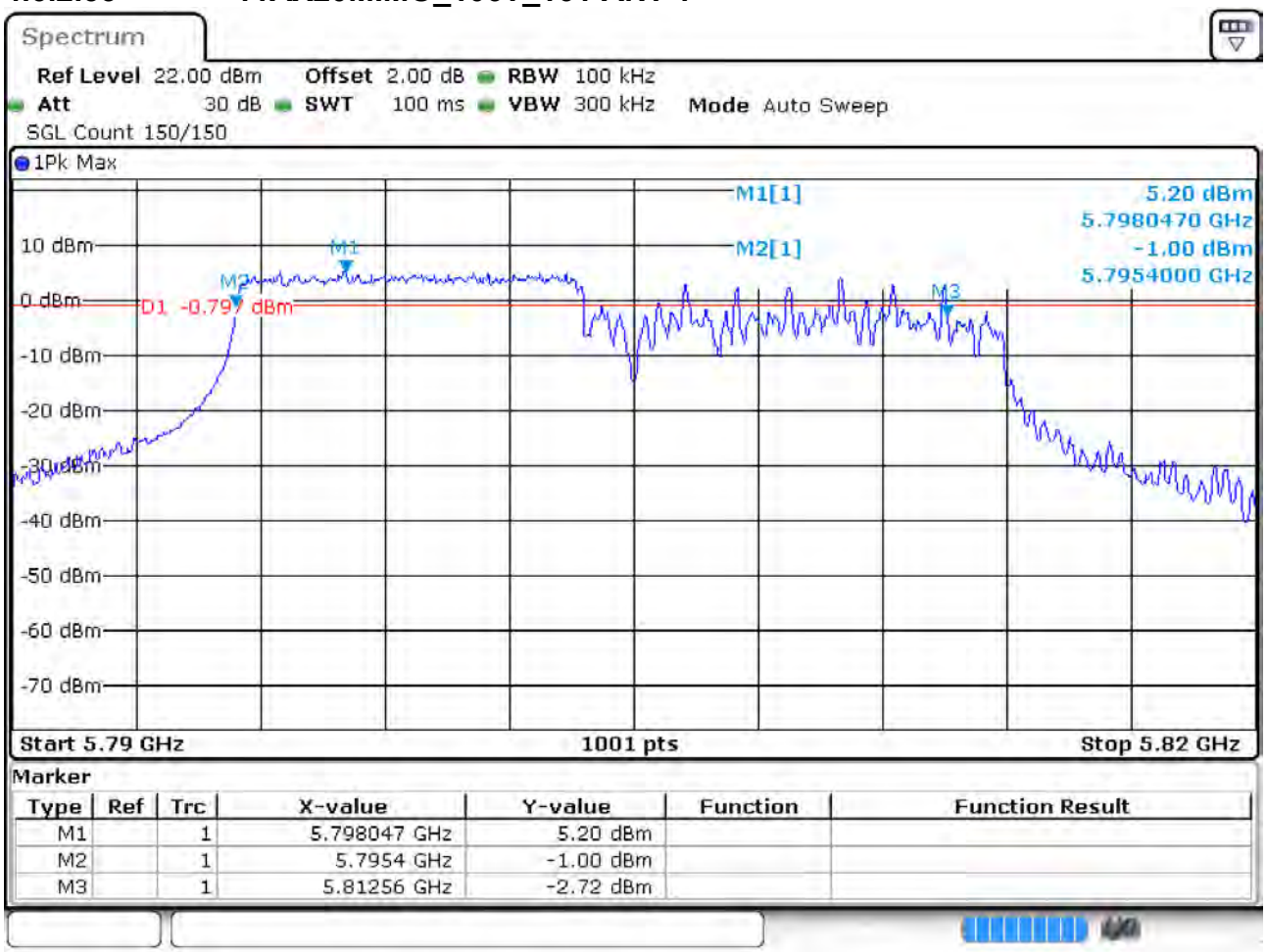
4.6.2.33 11AX20MIMO_106T_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.798047 GHz	5.20 dBm		
M2		1	5.7954 GHz	-1.00 dBm		
M3		1	5.81256 GHz	-2.72 dBm		

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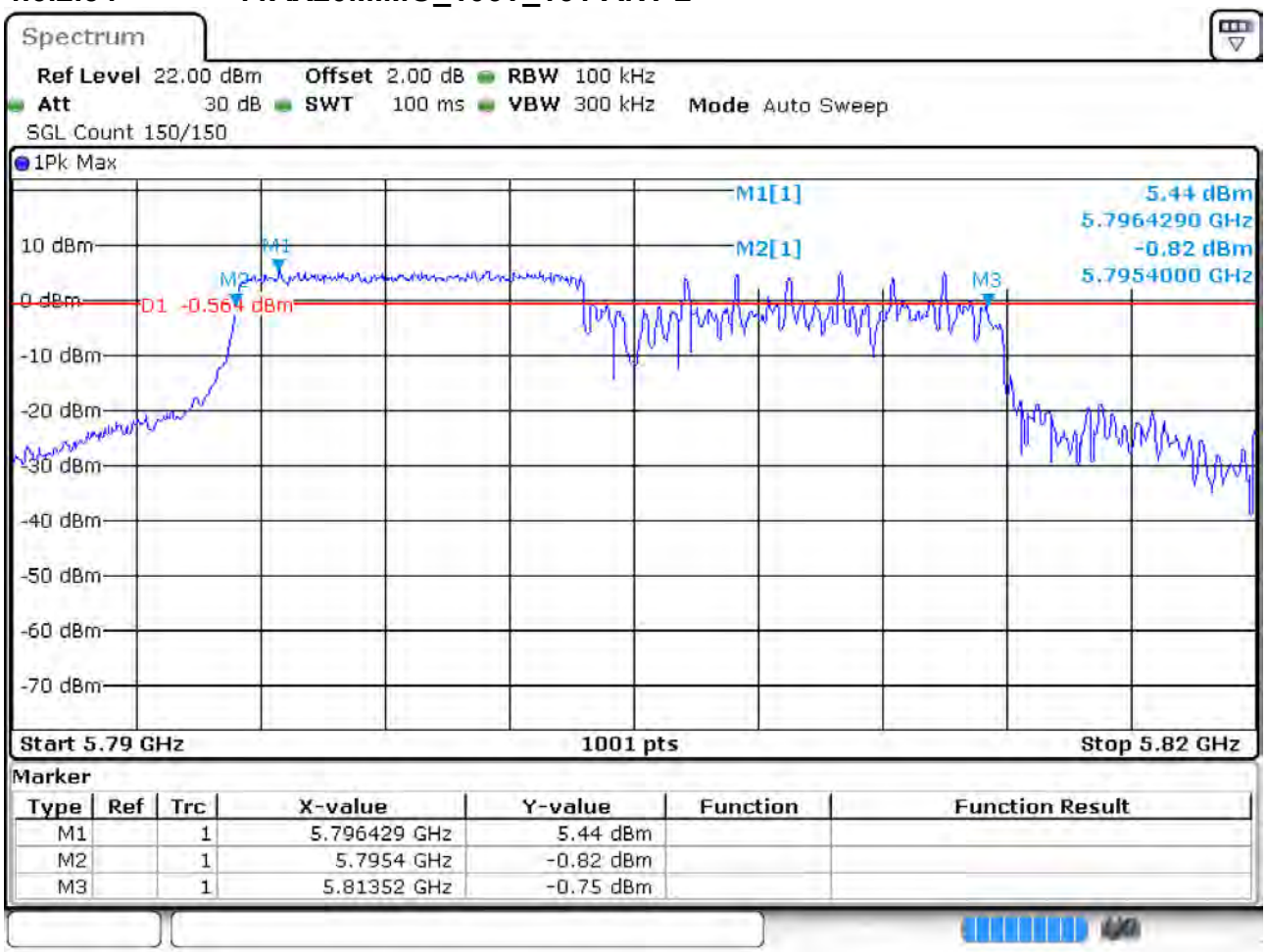
4.6.2.34 11AX20MIMO_106T_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.796429 GHz	5.44 dBm		
M2		1	5.7954 GHz	-0.82 dBm		
M3		1	5.81352 GHz	-0.75 dBm		

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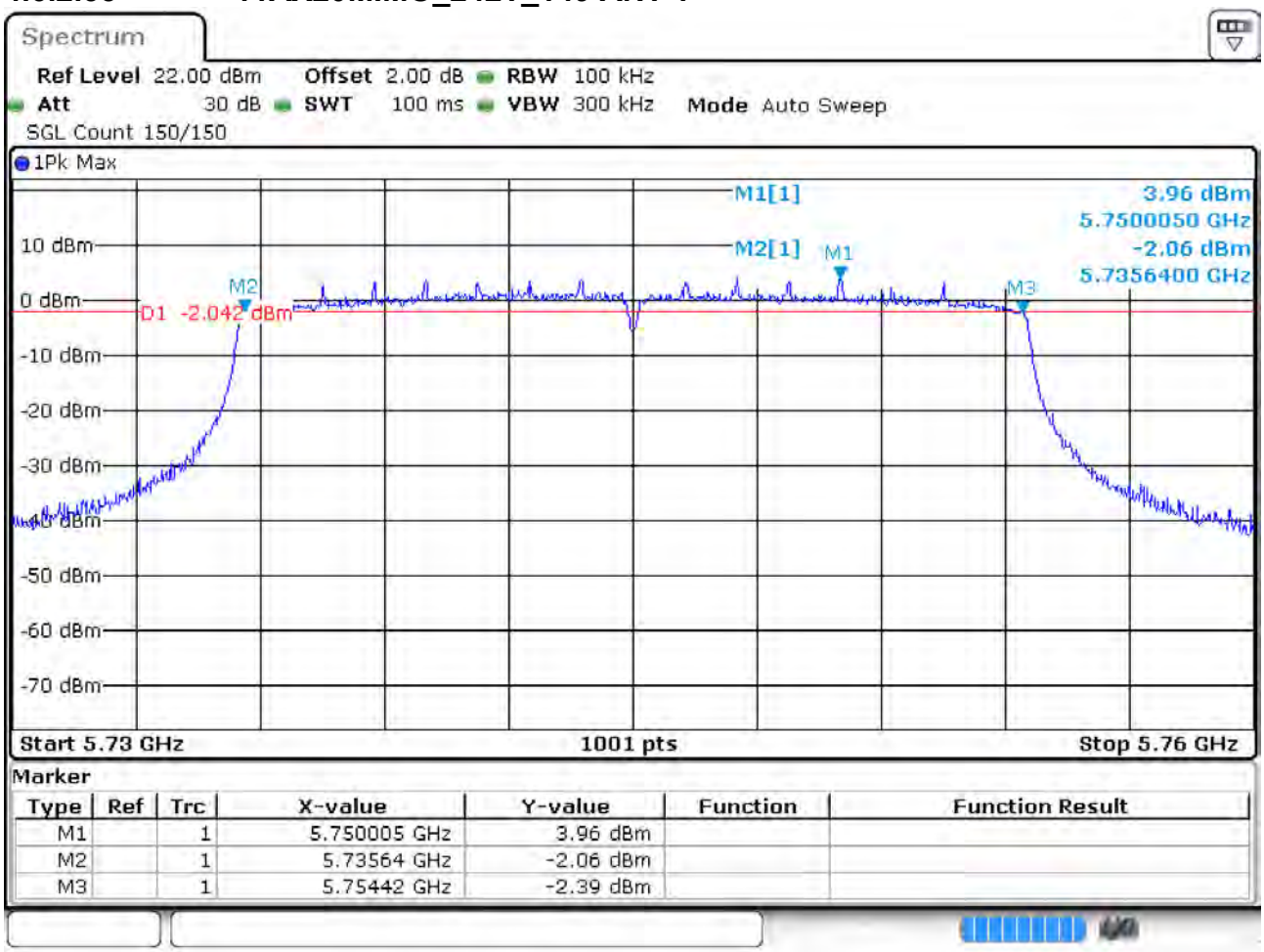
4.6.2.35 11AX20MIMO_242T_149 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.750005 GHz	3.96 dBm		
M2		1	5.73564 GHz	-2.06 dBm		
M3		1	5.75442 GHz	-2.39 dBm		

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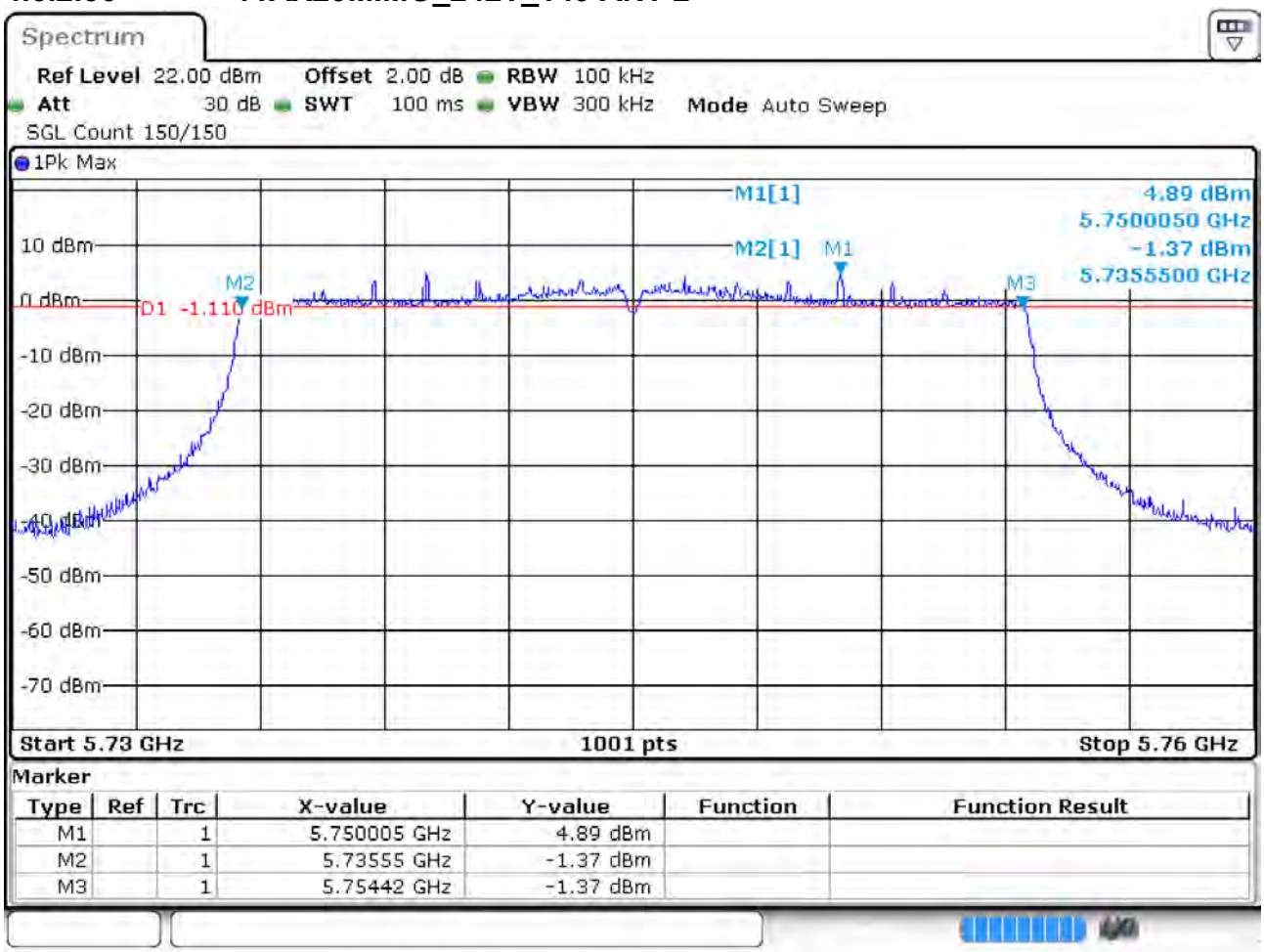
4.6.2.36 11AX20MIMO_242T_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.750005 GHz	4.89 dBm		
M2		1	5.73555 GHz	-1.37 dBm		
M3		1	5.75442 GHz	-1.37 dBm		

Date: 14.APR.2020 05:14:12

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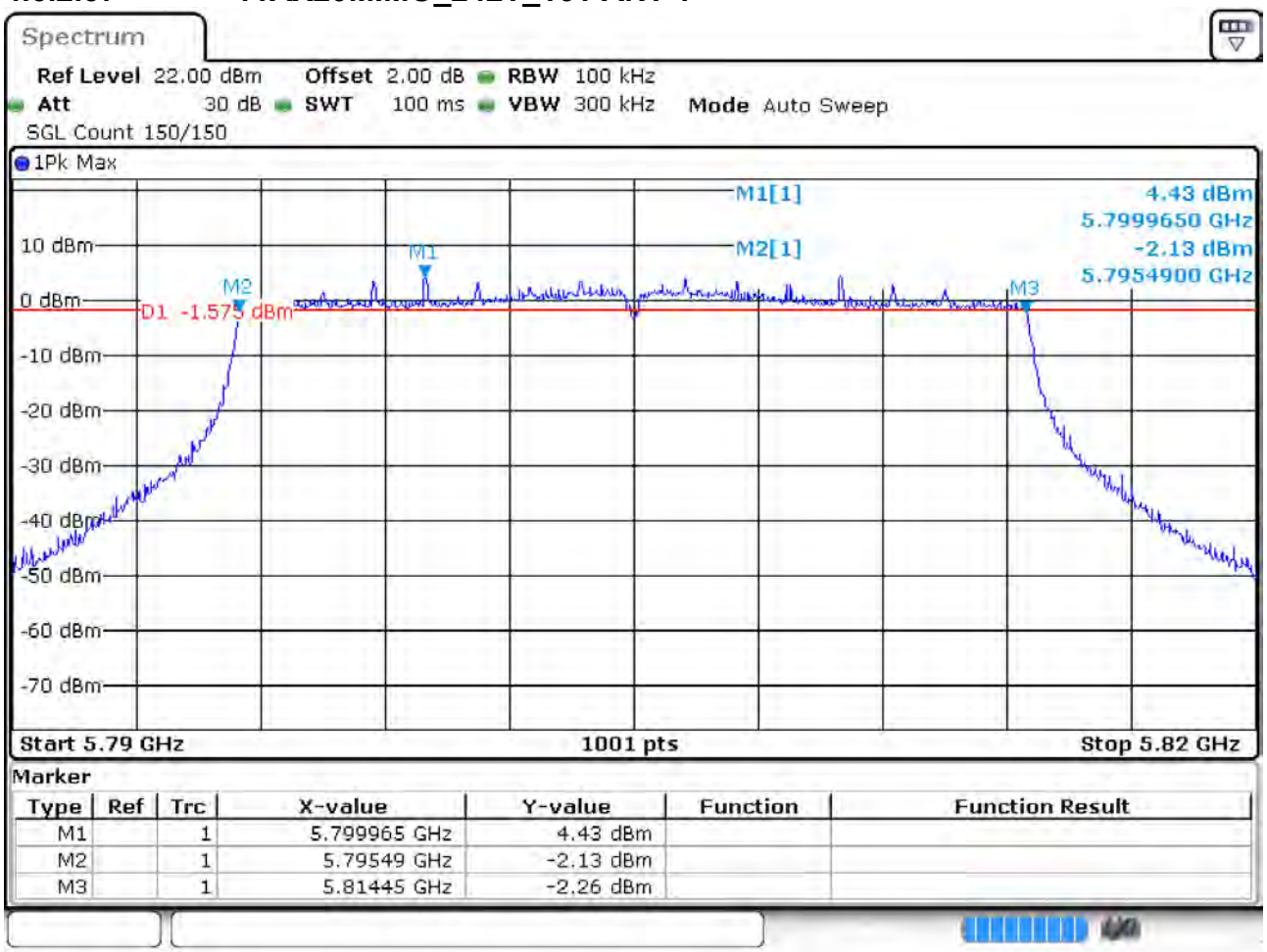
4.6.2.37 11AX20MIMO_242T_161 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.799965 GHz	4.43 dBm		
M2		1	5.79549 GHz	-2.13 dBm		
M3		1	5.81445 GHz	-2.26 dBm		

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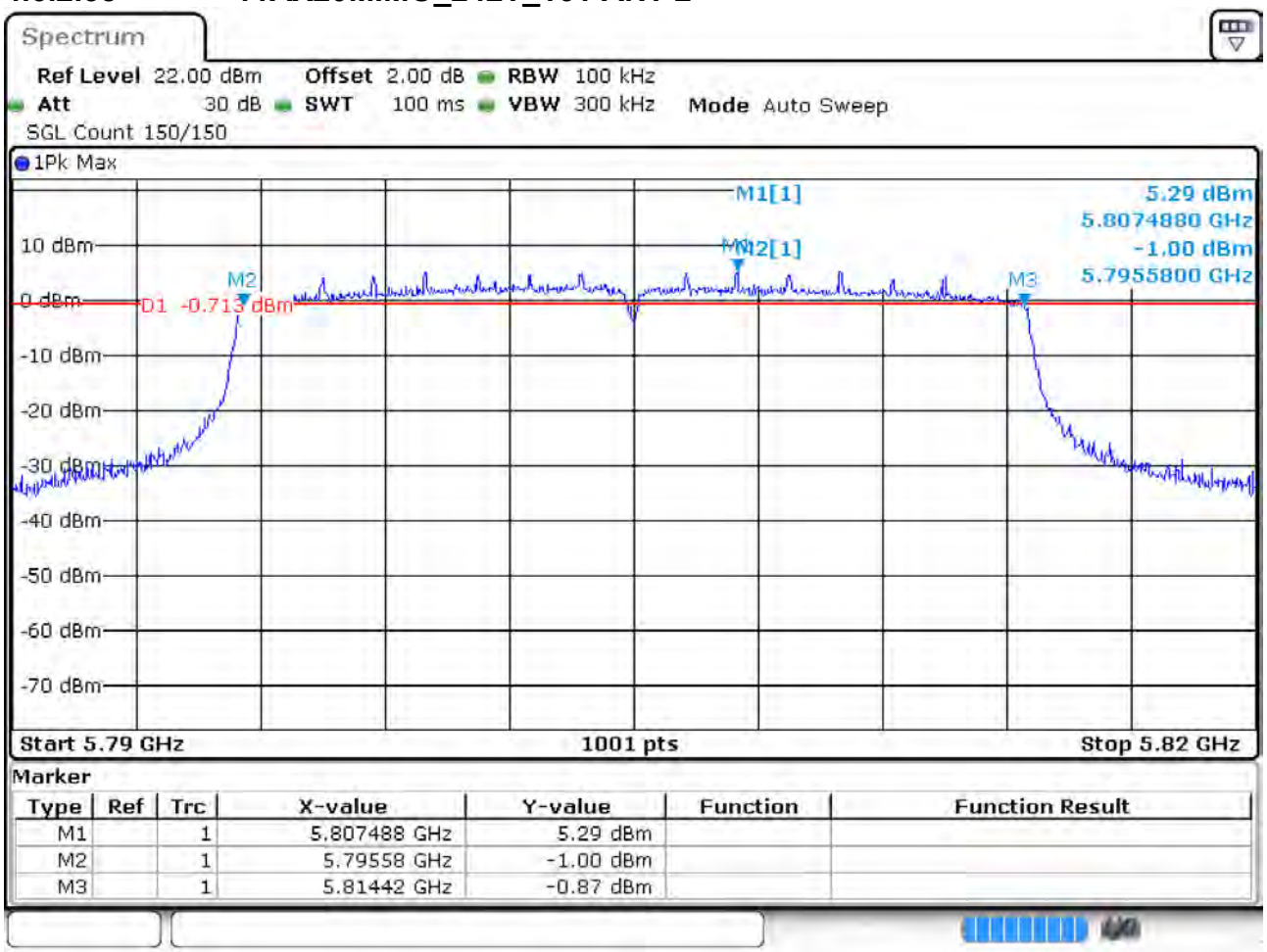
4.6.2.38 11AX20MIMO_242T_161 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.807488 GHz	5.29 dBm		
M2		1	5.79558 GHz	-1.00 dBm		
M3		1	5.81442 GHz	-0.87 dBm		

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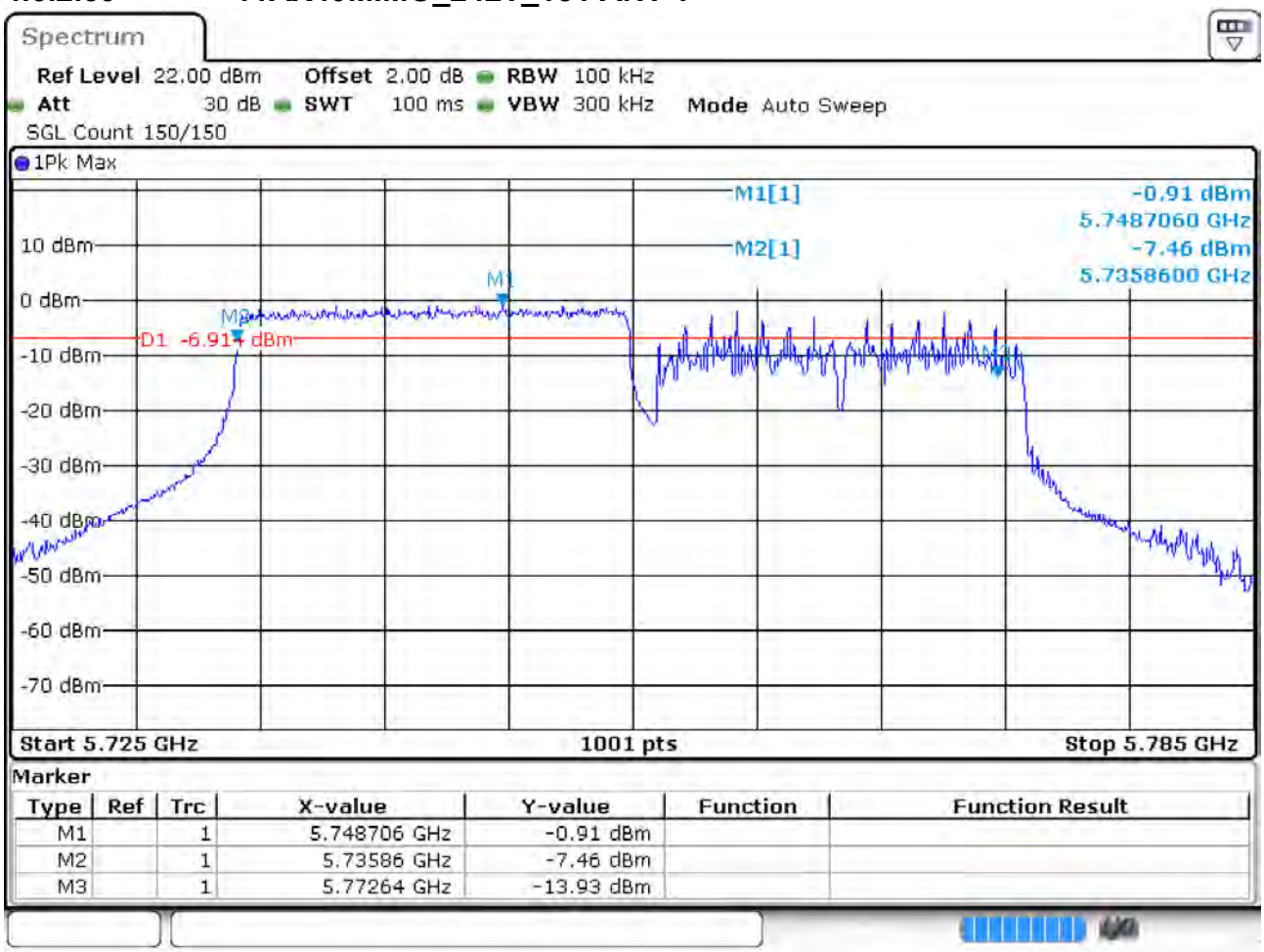
4.6.2.39 11AX40MIMO_242T_151 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.748706 GHz	-0.91 dBm		
M2		1	5.73586 GHz	-7.46 dBm		
M3		1	5.77264 GHz	-13.93 dBm		

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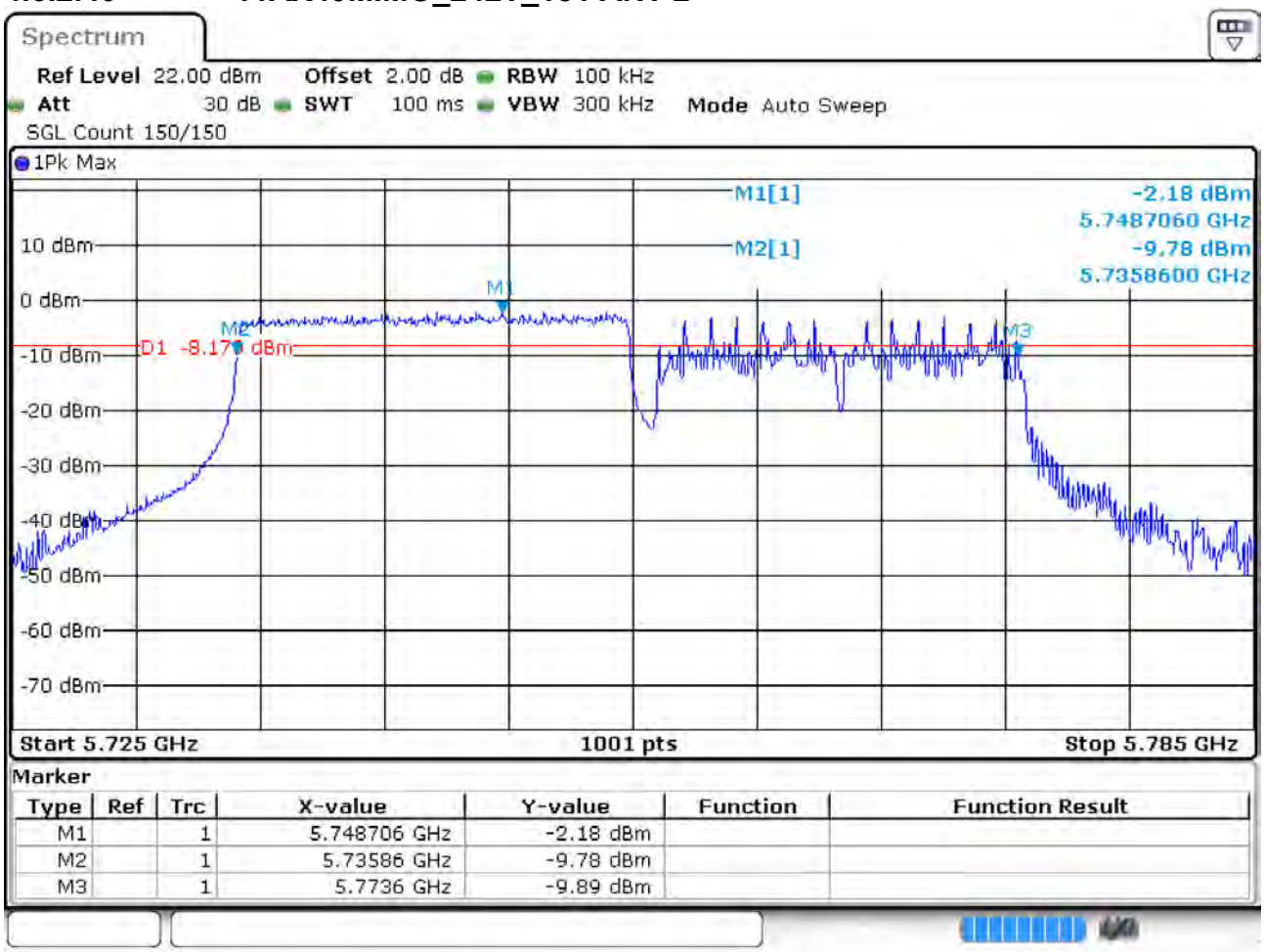
4.6.2.40 11AX40MIMO_242T_151 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.748706 GHz	-2.18 dBm		
M2		1	5.73586 GHz	-9.78 dBm		
M3		1	5.7736 GHz	-9.89 dBm		

Date: 11.APR.2020 11:42:29

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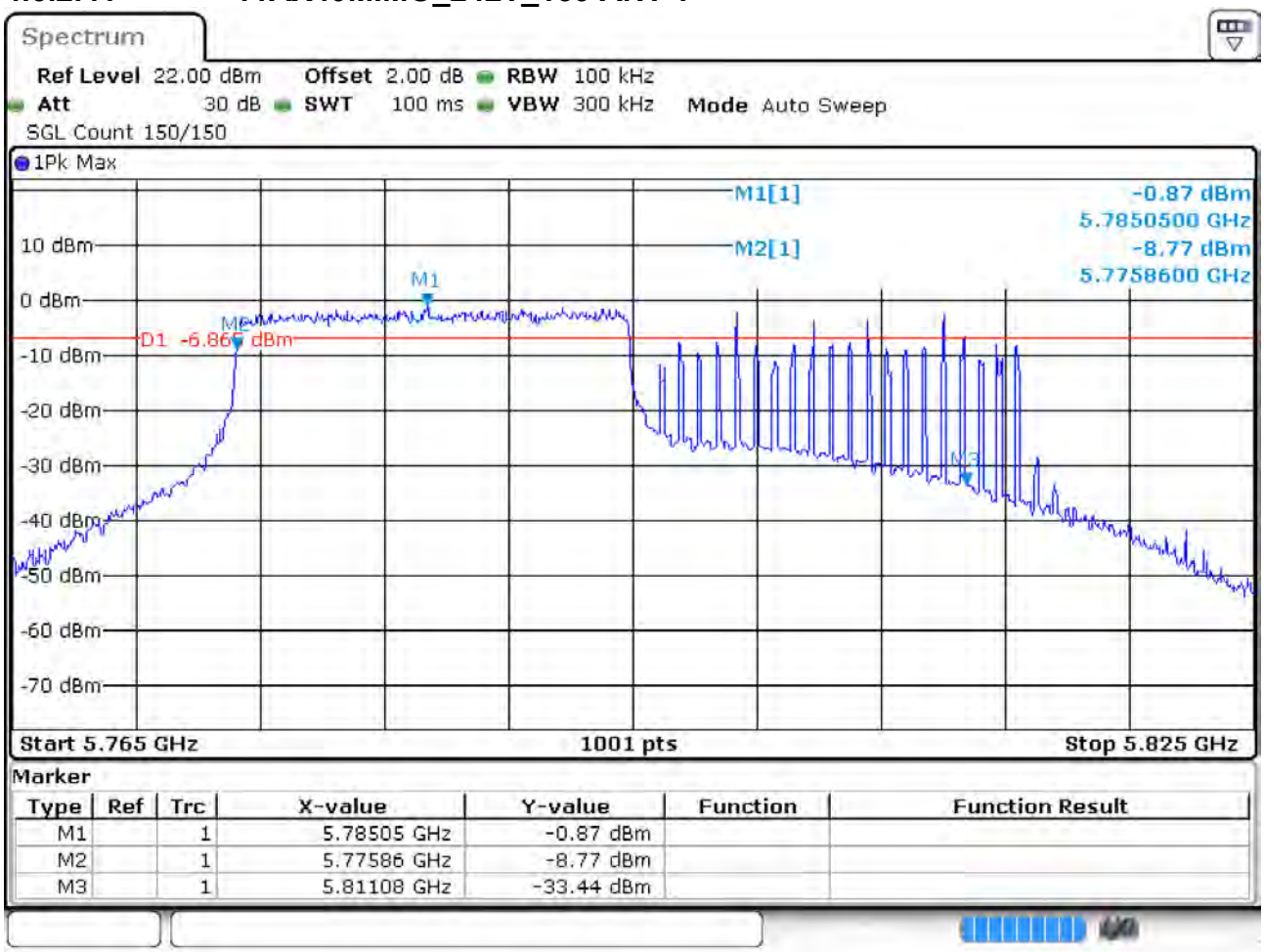
4.6.2.41 11AX40MIMO_242T_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.78505 GHz	-0.87 dBm		
M2		1	5.77586 GHz	-8.77 dBm		
M3		1	5.81108 GHz	-33.44 dBm		

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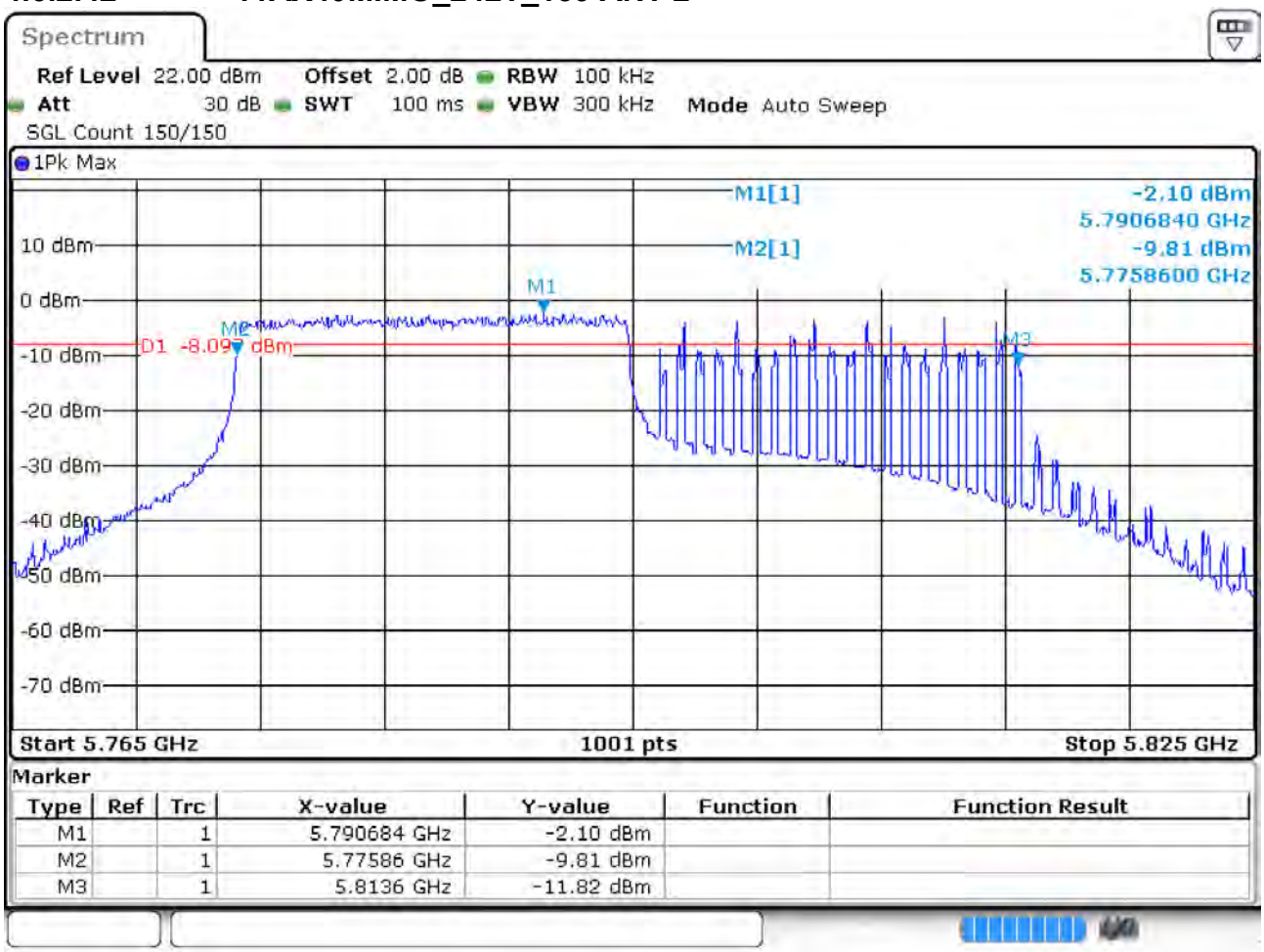
4.6.2.42 11AX40MIMO_242T_159 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.790684 GHz	-2.10 dBm		
M2		1	5.77586 GHz	-9.81 dBm		
M3		1	5.8136 GHz	-11.82 dBm		

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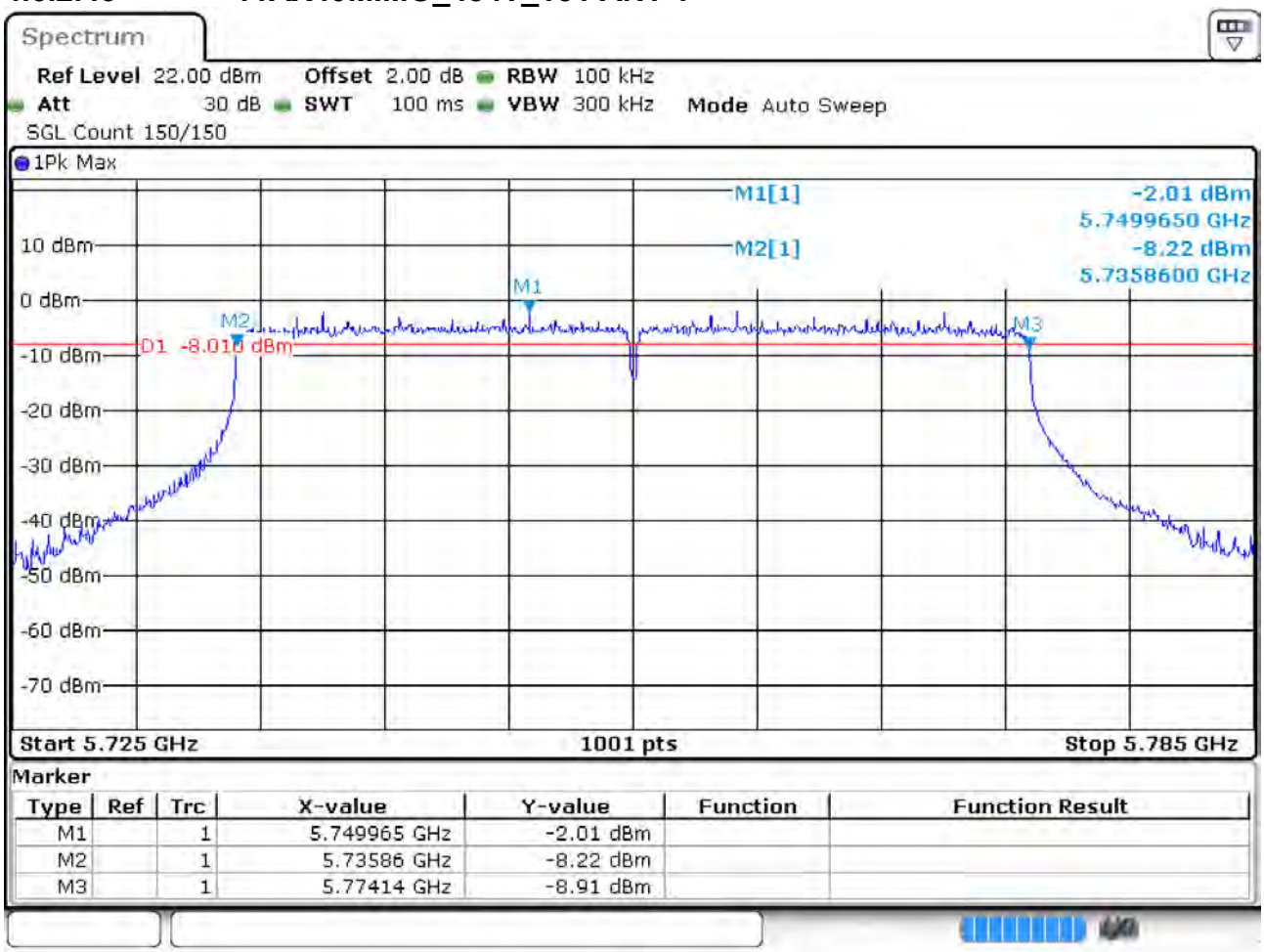
4.6.2.43 11AX40MIMO_484T_151 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749965 GHz	-2.01 dBm		
M2		1	5.73586 GHz	-8.22 dBm		
M3		1	5.77414 GHz	-8.91 dBm		

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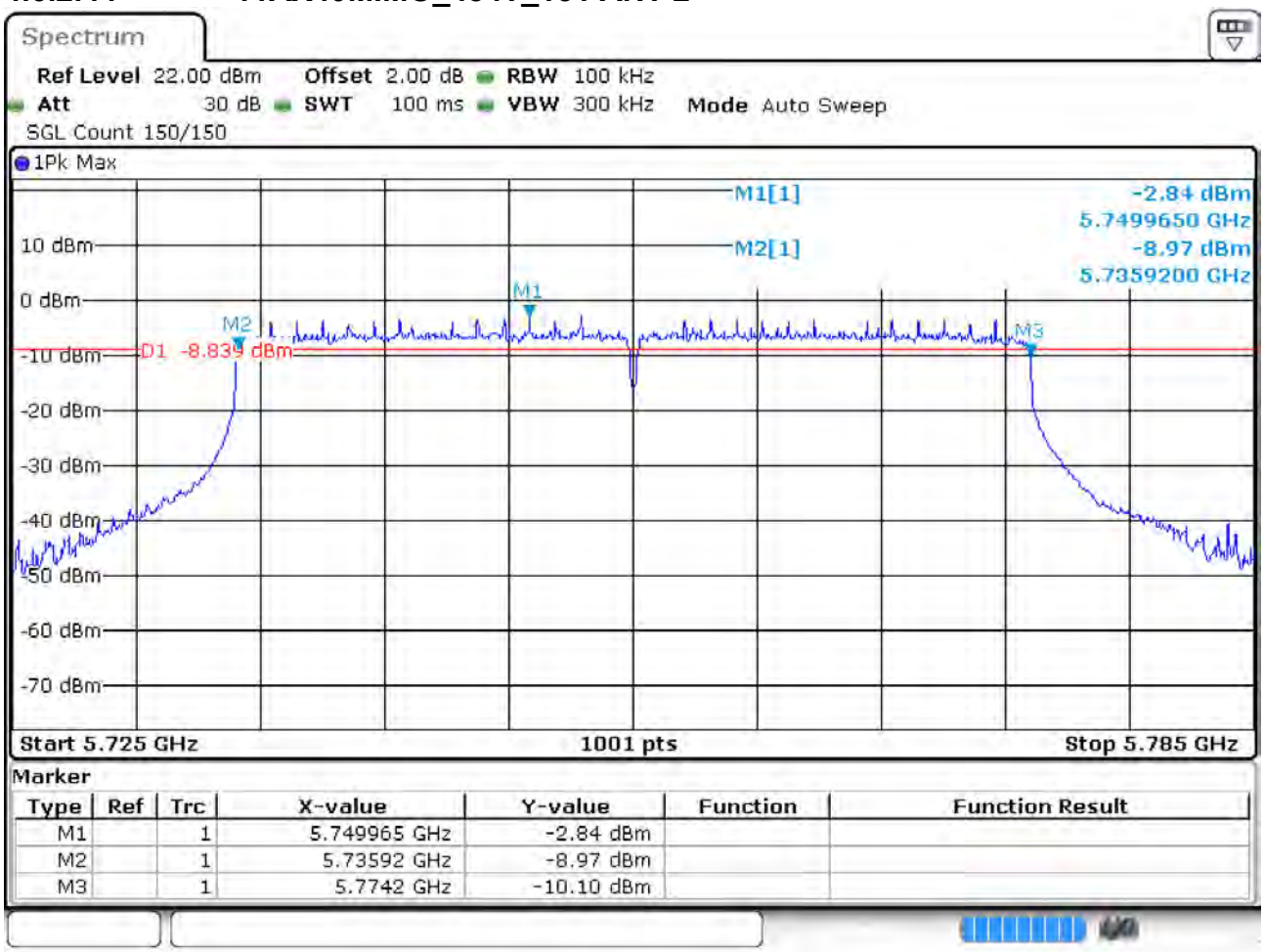
4.6.2.44 11AX40MIMO_484T_151 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749965 GHz	-2.84 dBm		
M2		1	5.73592 GHz	-8.97 dBm		
M3		1	5.7742 GHz	-10.10 dBm		

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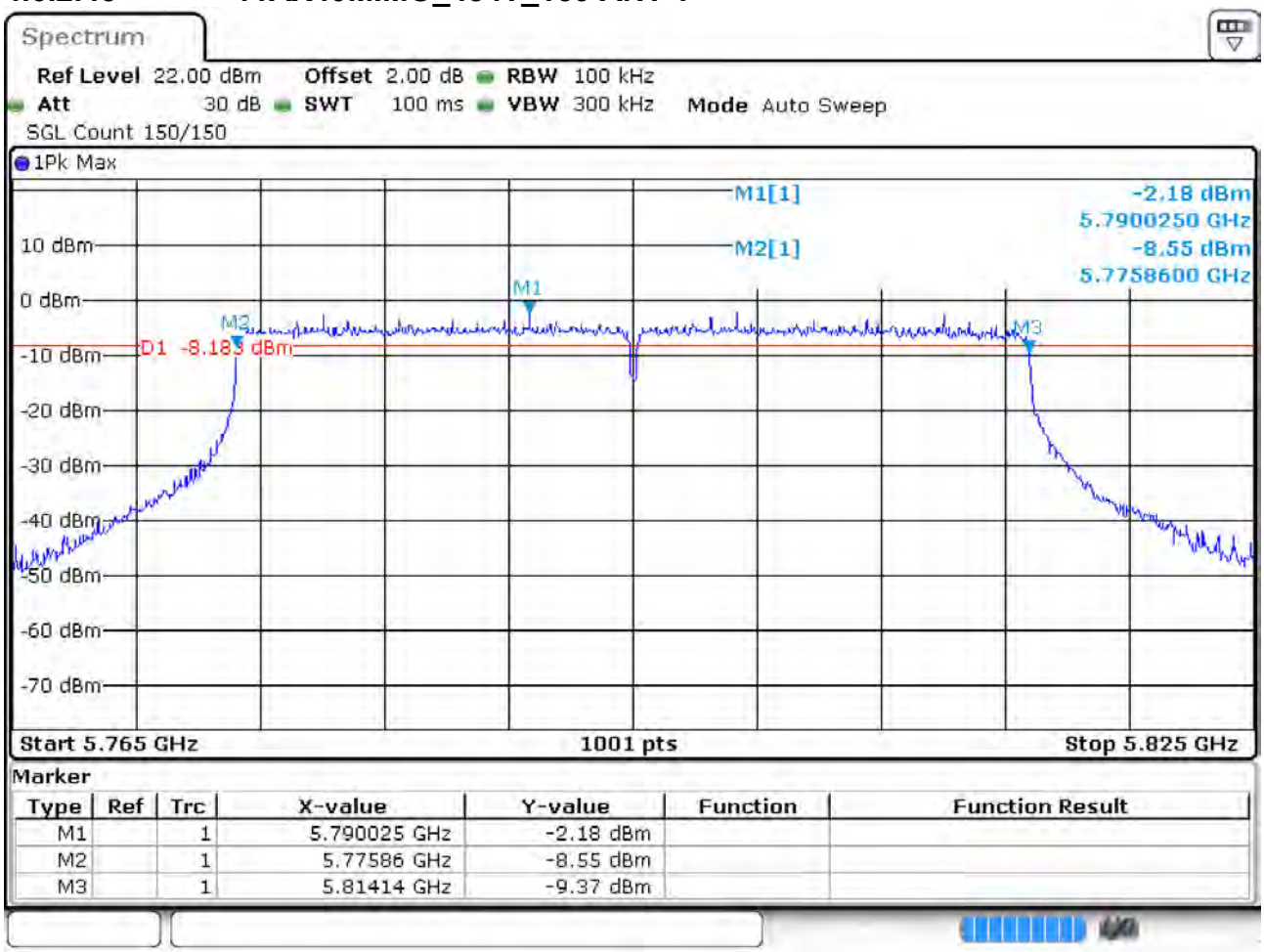
4.6.2.45 11AX40MIMO_484T_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.790025 GHz	-2.18 dBm		
M2		1	5.77586 GHz	-8.55 dBm		
M3		1	5.81414 GHz	-9.37 dBm		

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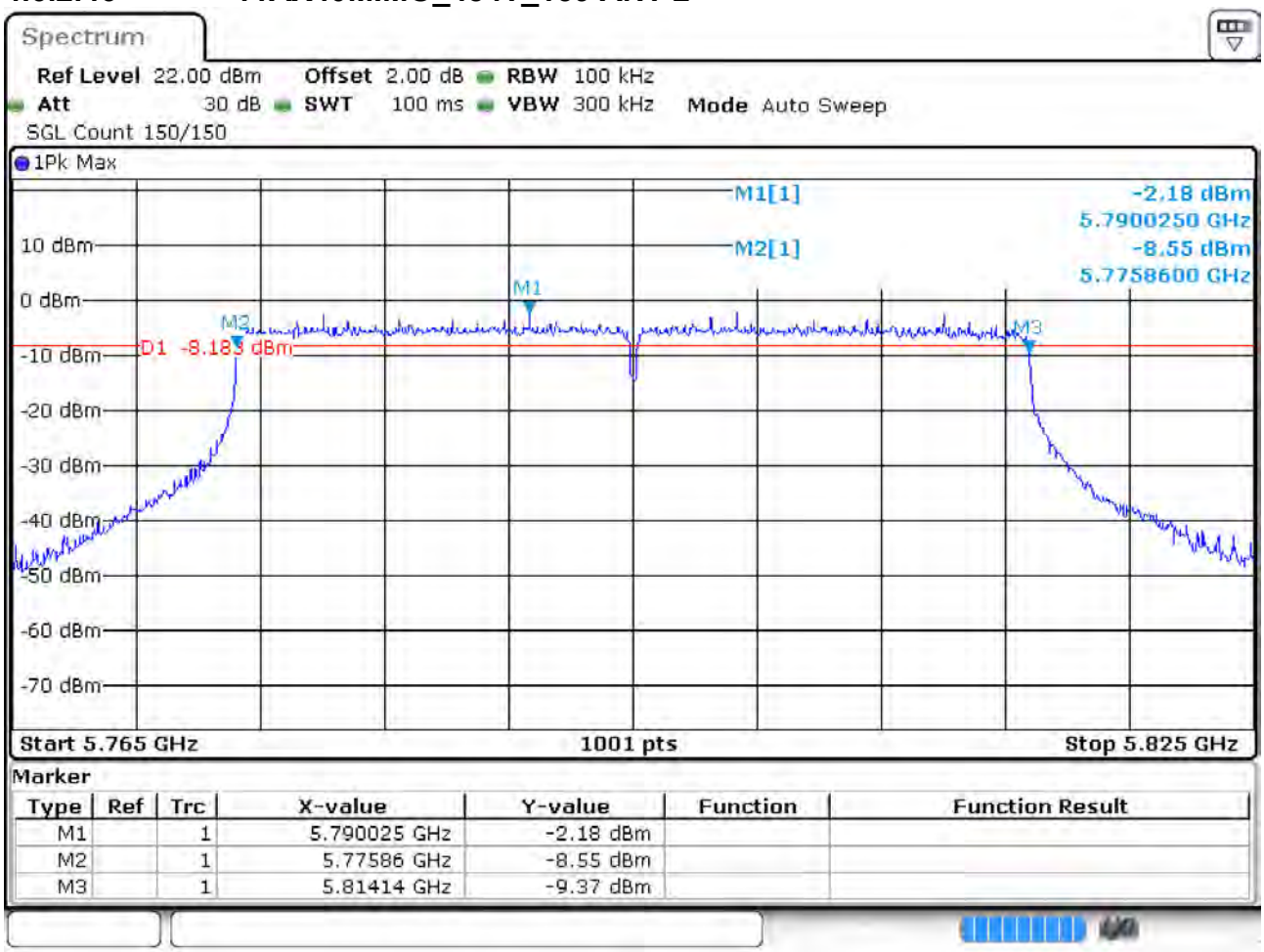
4.6.2.46 11AX40MIMO_484T_159 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.790025 GHz	-2.18 dBm		
M2		1	5.77586 GHz	-8.55 dBm		
M3		1	5.81414 GHz	-9.37 dBm		

Date: 11.APR.2020 12:03:16

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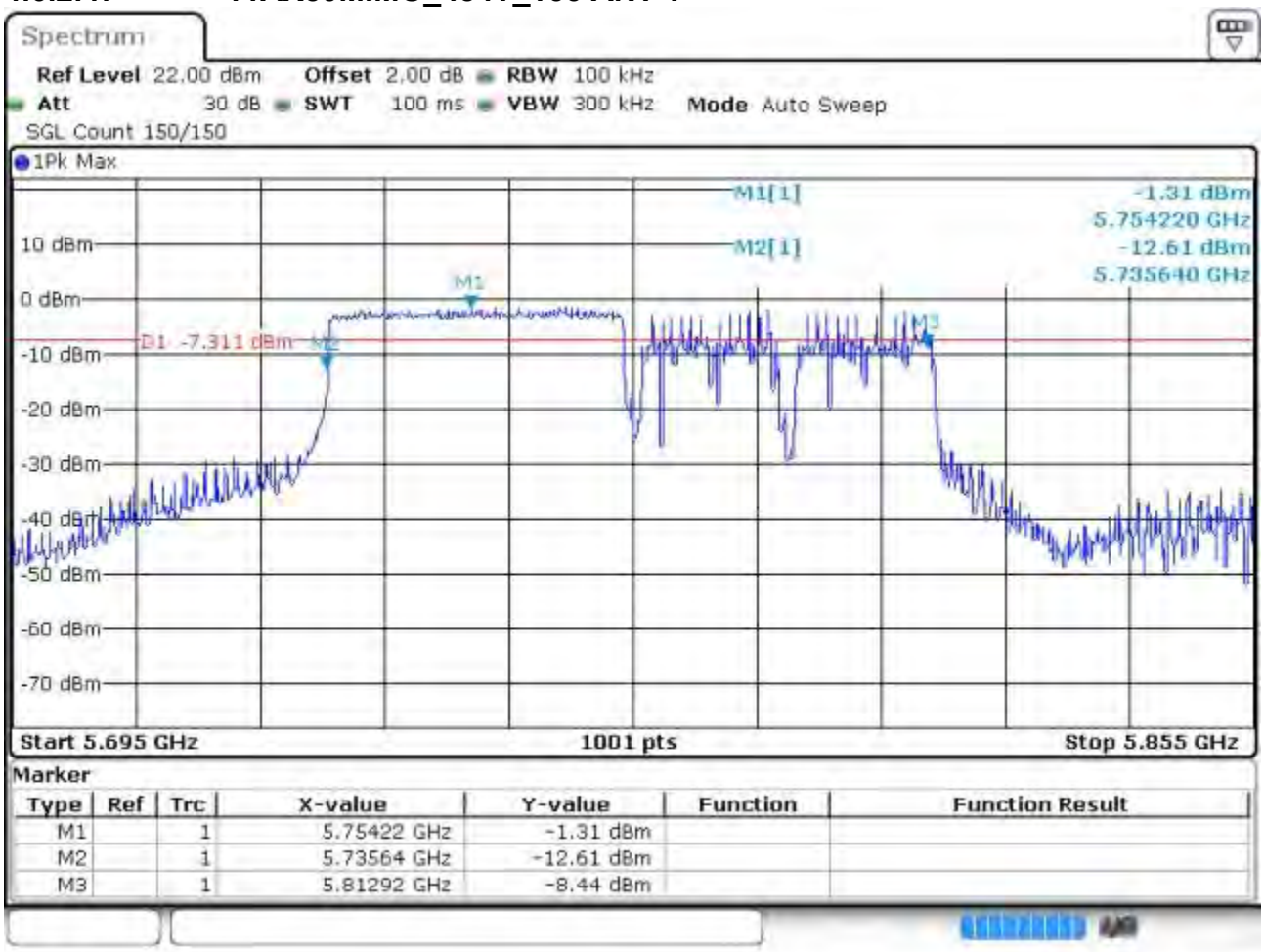
4.6.2.47 11AX80MIMO_484T_155 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.75422 GHz	-1.31 dBm		
M2		1	5.73564 GHz	-12.61 dBm		
M3		1	5.81292 GHz	-8.44 dBm		

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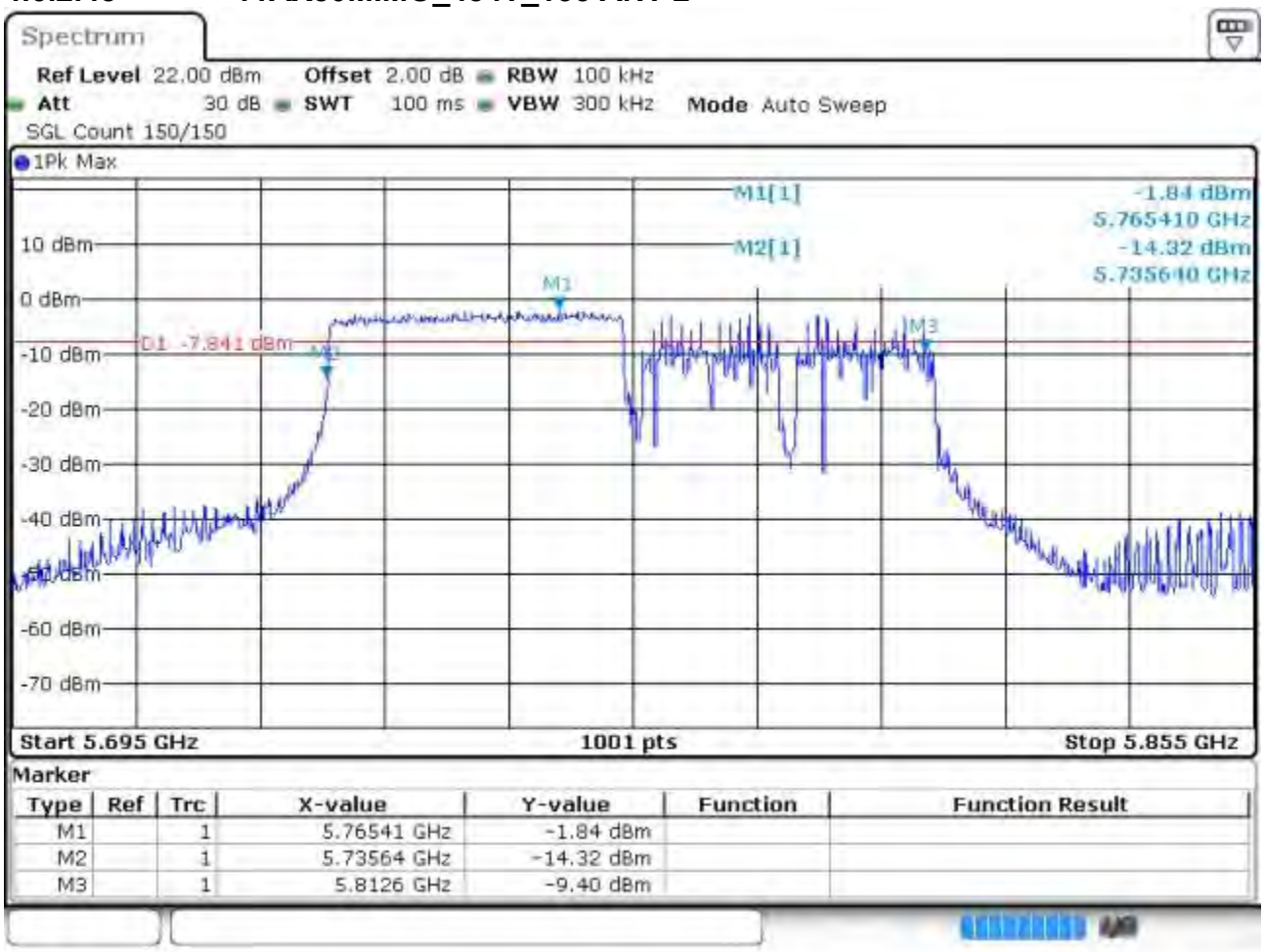
4.6.2.48 11AX80MIMO_484T_155 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.76541 GHz	-1.84 dBm		
M2		1	5.73564 GHz	-14.32 dBm		
M3		1	5.8126 GHz	-9.40 dBm		

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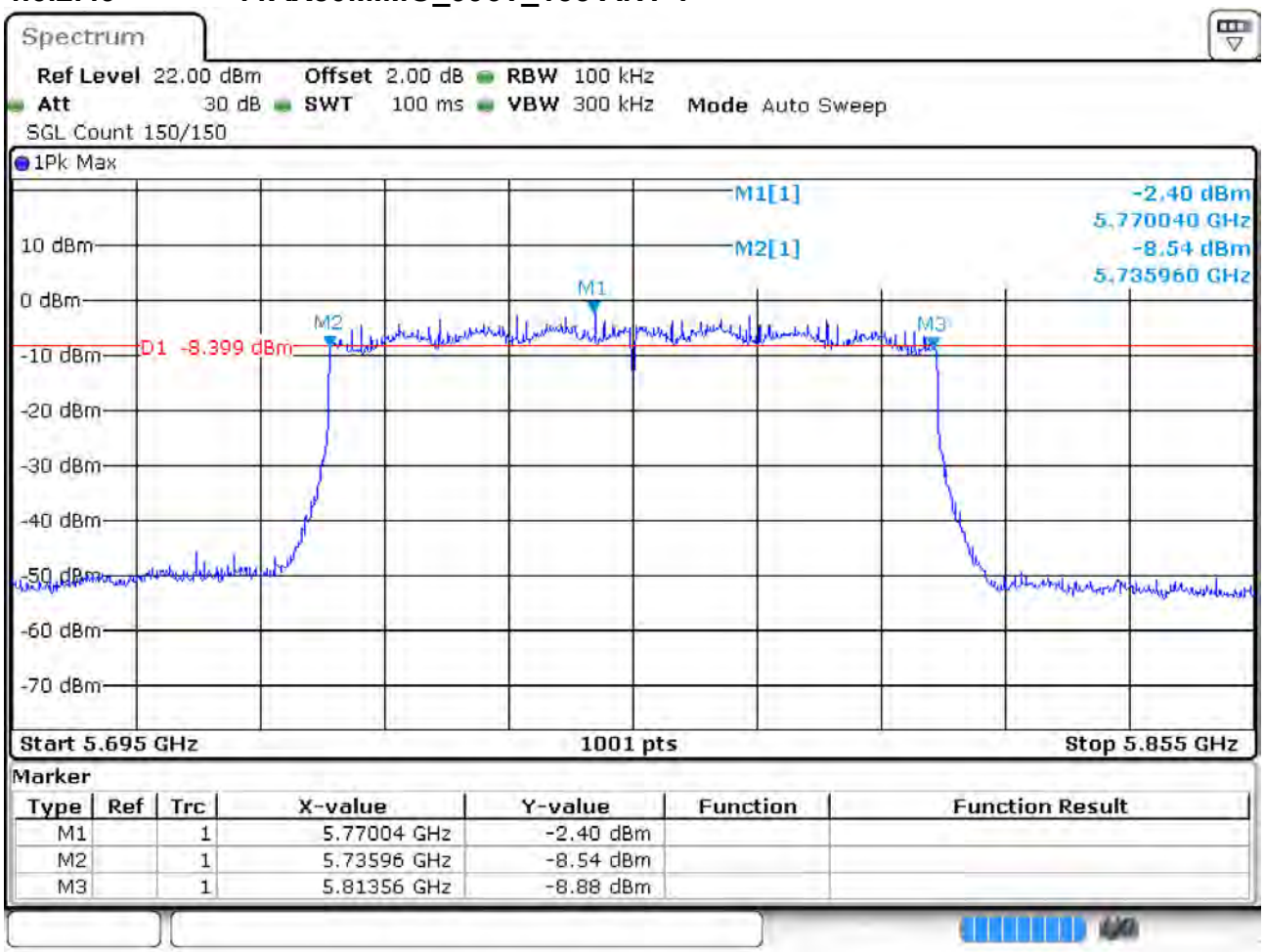
4.6.2.49 11AX80MIMO_996T_155 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77004 GHz	-2.40 dBm		
M2		1	5.73596 GHz	-8.54 dBm		
M3		1	5.81356 GHz	-8.88 dBm		

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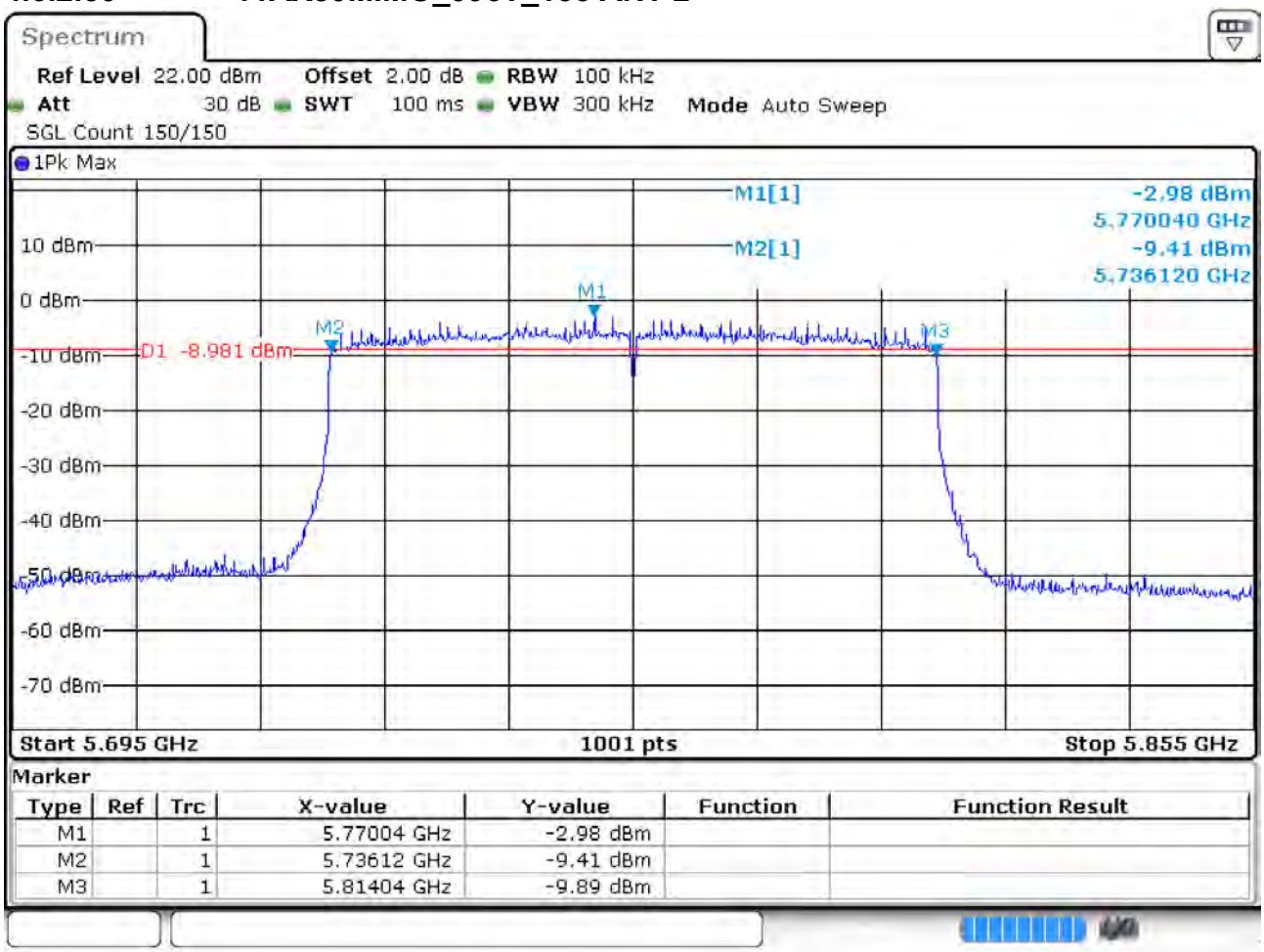
4.6.2.50 11AX80MIMO_996T_155 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77004 GHz	-2.98 dBm		
M2		1	5.73612 GHz	-9.41 dBm		
M3		1	5.81404 GHz	-9.89 dBm		

Date: 11.APR.2020 12:38:00

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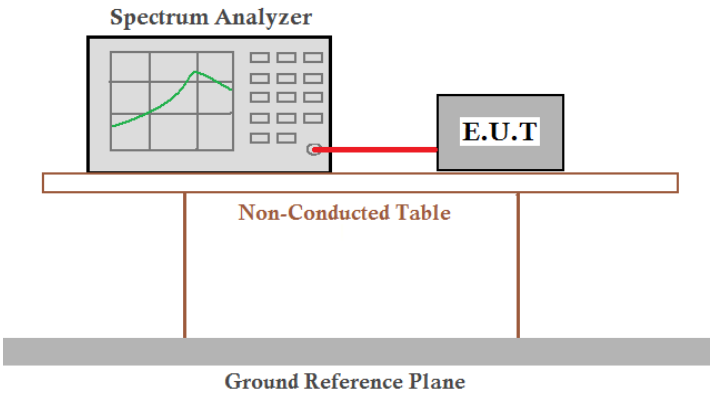
4.7 99% Occupied Bandwidth

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). MCS0 of rate is the worst case of 802.11ax(HT20); MCS0 of rate is the worst case of 802.11ax(HT40); MCS0 of rate is the worst case of 802.11ax(HT80); Only the worst case is recorded in the report.
Test Results:	Pass

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4.7.1 Test Results For 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	99% Occupied Bandwidth		Verdict
			ANT 1	ANT 2	
11A20CDD	36	5180	17.53	16.42	PASS
	48	5240	17.53	16.39	PASS
	52	5260	16.39	16.39	PASS
	64	5320	16.39	16.39	PASS
	100	5500	16.36	16.36	PASS
	140	5700	16.33	16.39	PASS
	144	5720	16.30	16.33	PASS
	149	5745	16.33	16.39	PASS
	161	5805	17.53	17.53	PASS
11N20MIMO	36	5180	17.56	17.53	PASS
	48	5240	17.53	17.53	PASS
	52	5260	17.56	17.53	PASS
	64	5320	17.56	17.53	PASS
	100	5500	17.56	17.53	PASS
	140	5700	17.56	17.56	PASS
	144	5720	17.56	17.56	PASS
	149	5745	17.56	17.56	PASS
	161	5805	17.50	17.53	PASS
11N40MIMO	38	5190	35.96	35.96	PASS
	46	5230	36.02	35.96	PASS
	54	5270	36.02	35.90	PASS
	62	5310	36.02	35.96	PASS
	102	5510	36.02	35.90	PASS
	134	5670	35.96	35.90	PASS
	142	5710	35.96	35.90	PASS
	151	5755	36.02	35.96	PASS
	159	5795	35.96	35.96	PASS
11AC20MIMO	36	5180	18.04	17.98	PASS
	48	5240	18.04	17.92	PASS
	52	5260	18.04	17.92	PASS
	64	5320	18.04	17.95	PASS
	100	5500	17.89	17.89	PASS
	140	5700	17.86	17.80	PASS
	144	5720	17.86	17.89	PASS
	149	5745	17.89	17.89	PASS
	161	5805	17.53	17.53	PASS
11AC40MIMO	38	5190	36.62	36.68	PASS
	46	5230	36.62	36.68	PASS
	54	5270	36.62	36.62	PASS
	62	5310	36.56	36.62	PASS
	102	5510	36.56	36.62	PASS

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	134	5670	36.56	36.62	PASS
	142	5710	36.56	36.62	PASS
	151	5755	36.50	36.56	PASS
	159	5795	36.56	36.56	PASS
11AC80MIMO	42	5210	76.24	76.48	PASS
	58	5290	76.24	76.48	PASS
	106	5530	76.24	76.24	PASS
	155	5775	76.24	76.60	PASS
11AX20MIMO_26T	36	5180	17.26	17.17	PASS
	48	5240	17.20	17.17	PASS
	52	5260	17.14	17.20	PASS
	64	5320	17.17	17.20	PASS
	100	5500	17.14	17.08	PASS
	140	5700	17.11	17.11	PASS
	149	5745	17.14	17.11	PASS
	161	5805	17.11	17.17	PASS
11AX20MIMO_52T	36	5180	17.29	17.26	PASS
	48	5240	17.26	17.26	PASS
	52	5260	17.26	17.26	PASS
	64	5320	17.23	17.23	PASS
	100	5500	17.20	17.20	PASS
	140	5700	17.20	17.20	PASS
	149	5745	17.20	17.20	PASS
	161	5805	17.02	17.23	PASS
11AX20MIMO_106T	36	5180	18.40	18.40	PASS
	48	5240	18.40	18.34	PASS
	52	5260	18.37	18.34	PASS
	64	5320	18.40	18.37	PASS
	100	5500	18.31	18.28	PASS
	140	5700	18.28	18.31	PASS
	149	5745	18.25	18.31	PASS
	161	5805	18.25	18.34	PASS
11AX20MIMO_242T	36	5180	18.88	18.88	PASS
	48	5240	18.88	18.88	PASS
	52	5260	18.88	18.88	PASS
	64	5320	18.88	18.88	PASS
	100	5500	18.88	18.94	PASS
	140	5700	18.88	18.97	PASS
	149	5745	18.88	18.97	PASS
	161	5805	18.94	18.91	PASS
11AX40MIMO_484T	38	5190	38.00	38.06	PASS
	46	5230	38.00	38.00	PASS
	54	5270	38.00	38.00	PASS
	62	5310	38.00	38.00	PASS
	102	5510	38.00	38.00	PASS

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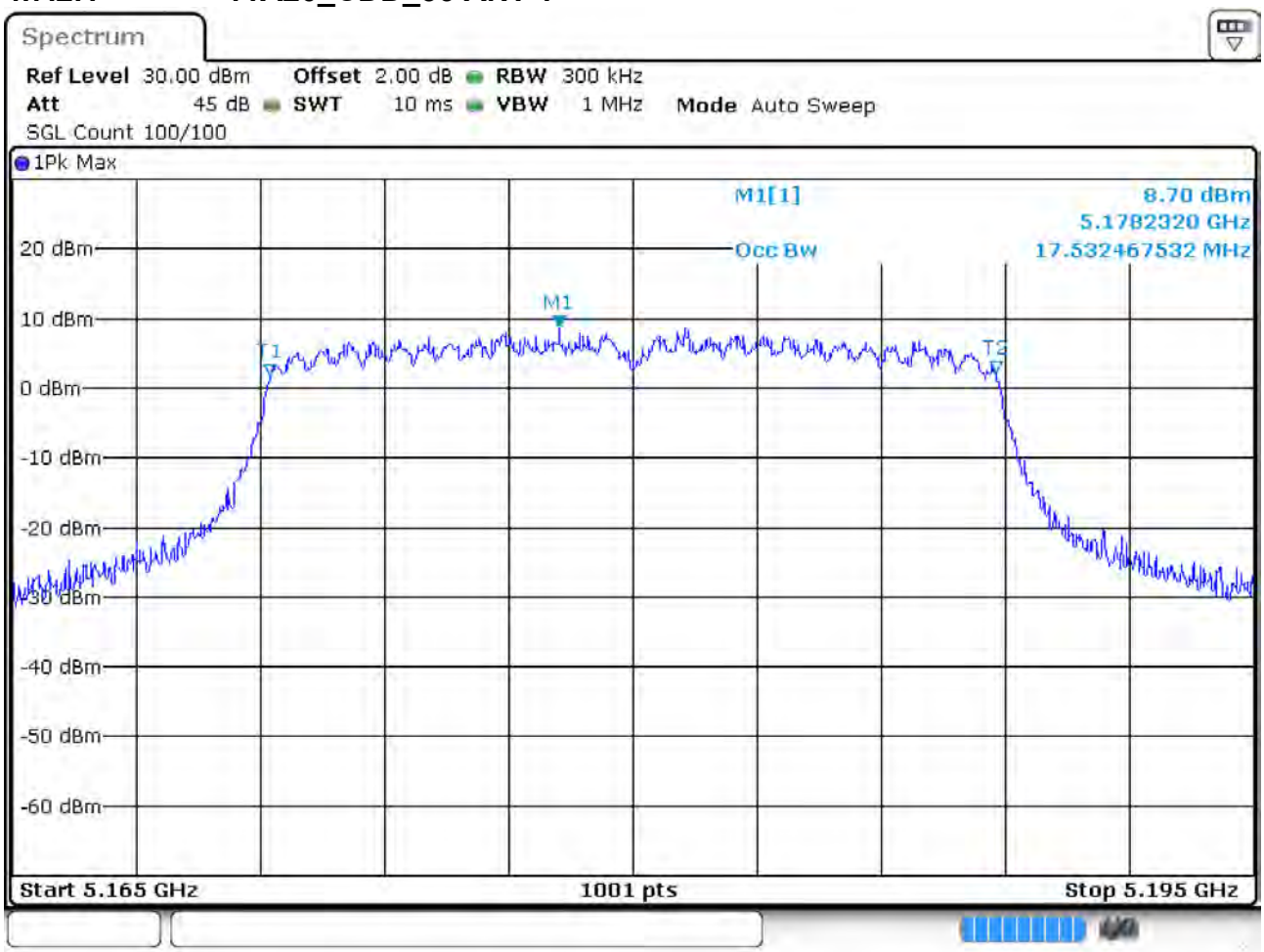
	134	5670	38.00	38.00	PASS
	151	5755	38.00	38.00	PASS
	159	5795	38.00	38.00	PASS
11AX80MIMO_484T	42	5210	77.20	77.08	PASS
	58	5290	77.08	76.96	PASS
	106	5530	76.96	76.84	PASS
	155	5775	76.96	76.96	PASS
11AX80MIMO_996T	42	5210	76.96	76.96	PASS
	58	5290	77.08	77.08	PASS
	106	5530	77.20	77.08	PASS
	155	5775	77.20	77.08	PASS

4.7.2 Test Plots For 99% Occupied Bandwidth

4.7.2.1 11A20_CDD_36 ANT 1



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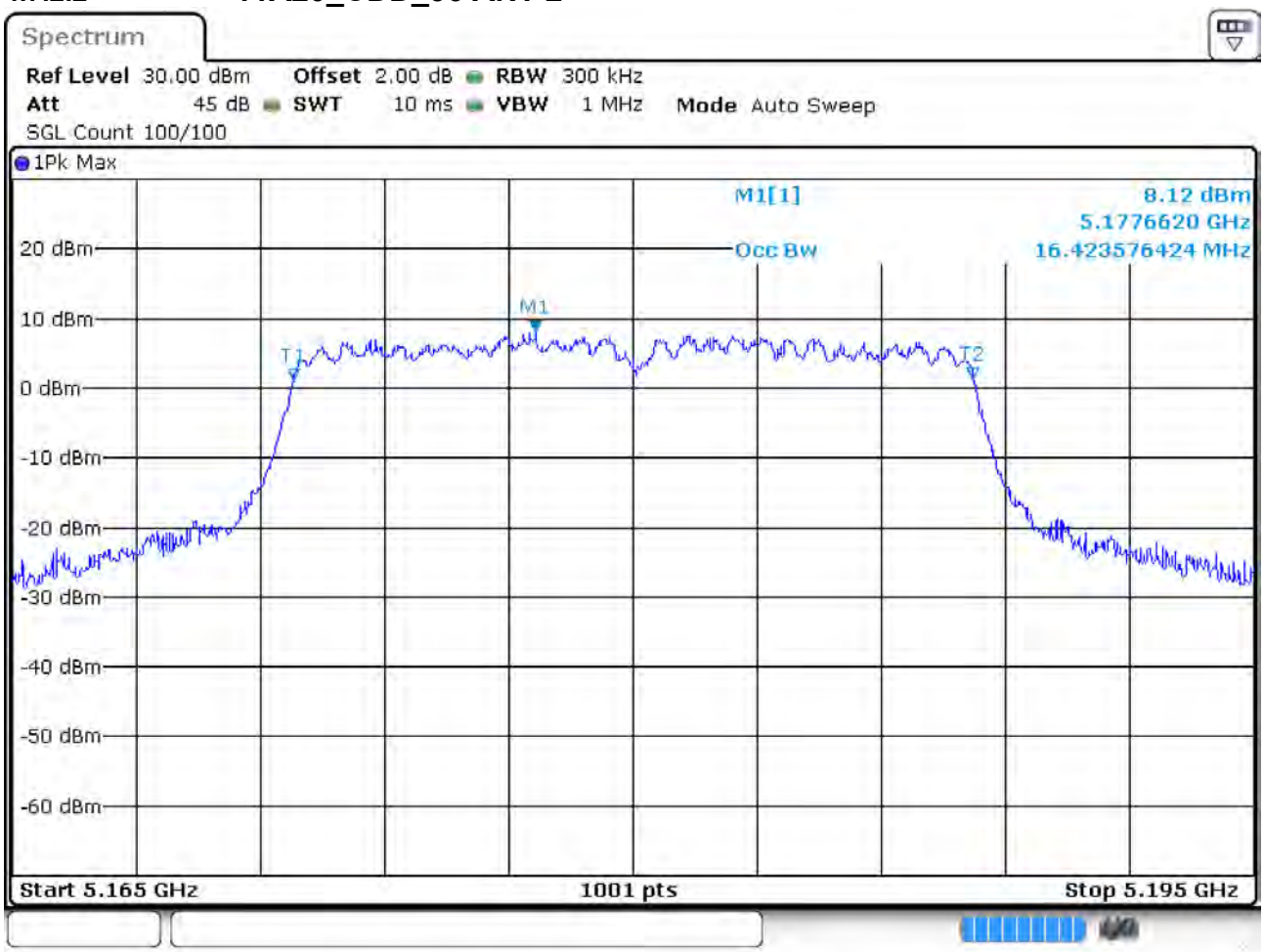
4.7.2.2 11A20_CDD_36 ANT 2



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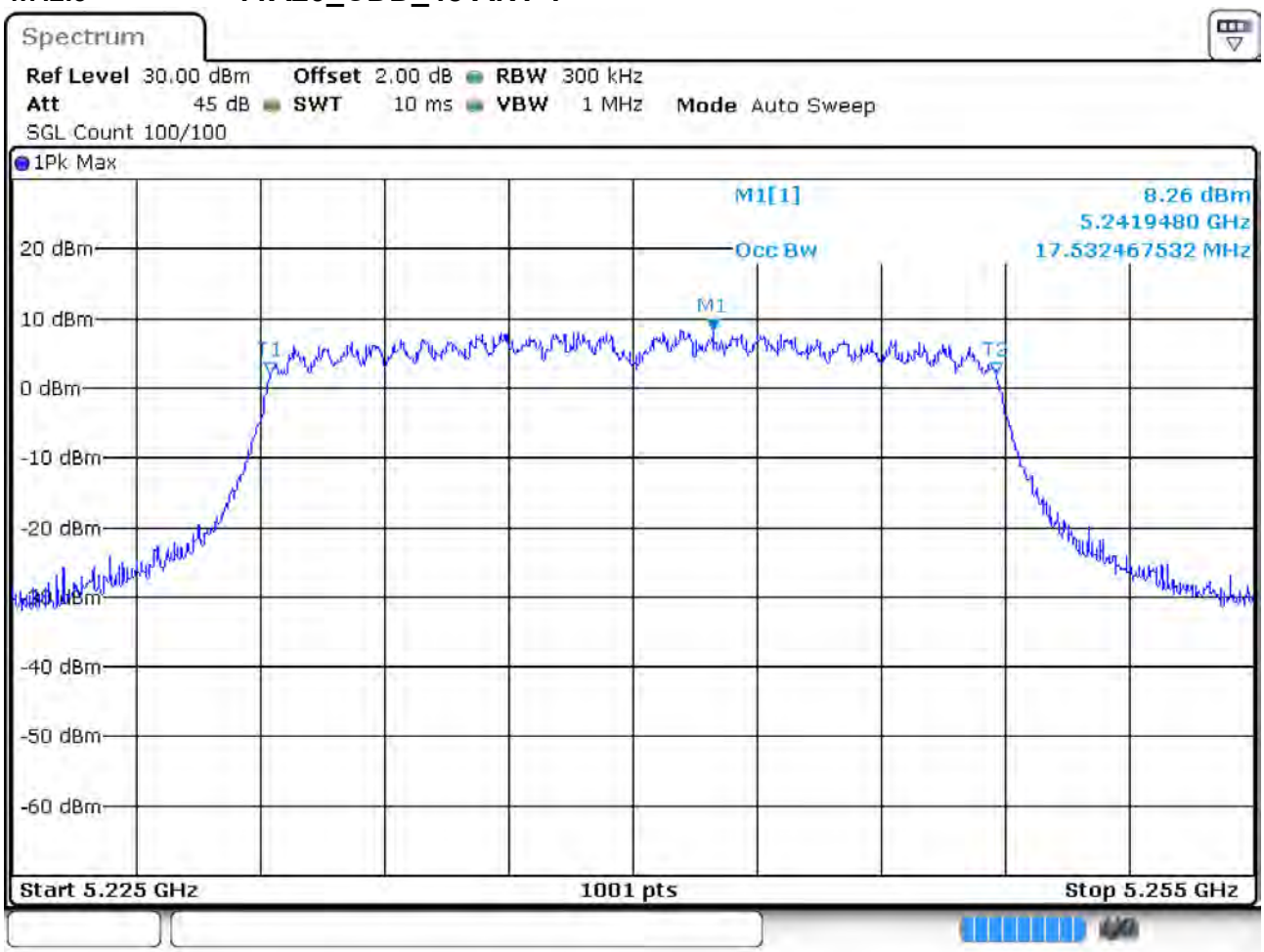
4.7.2.3 11A20_CDD_48 ANT 1



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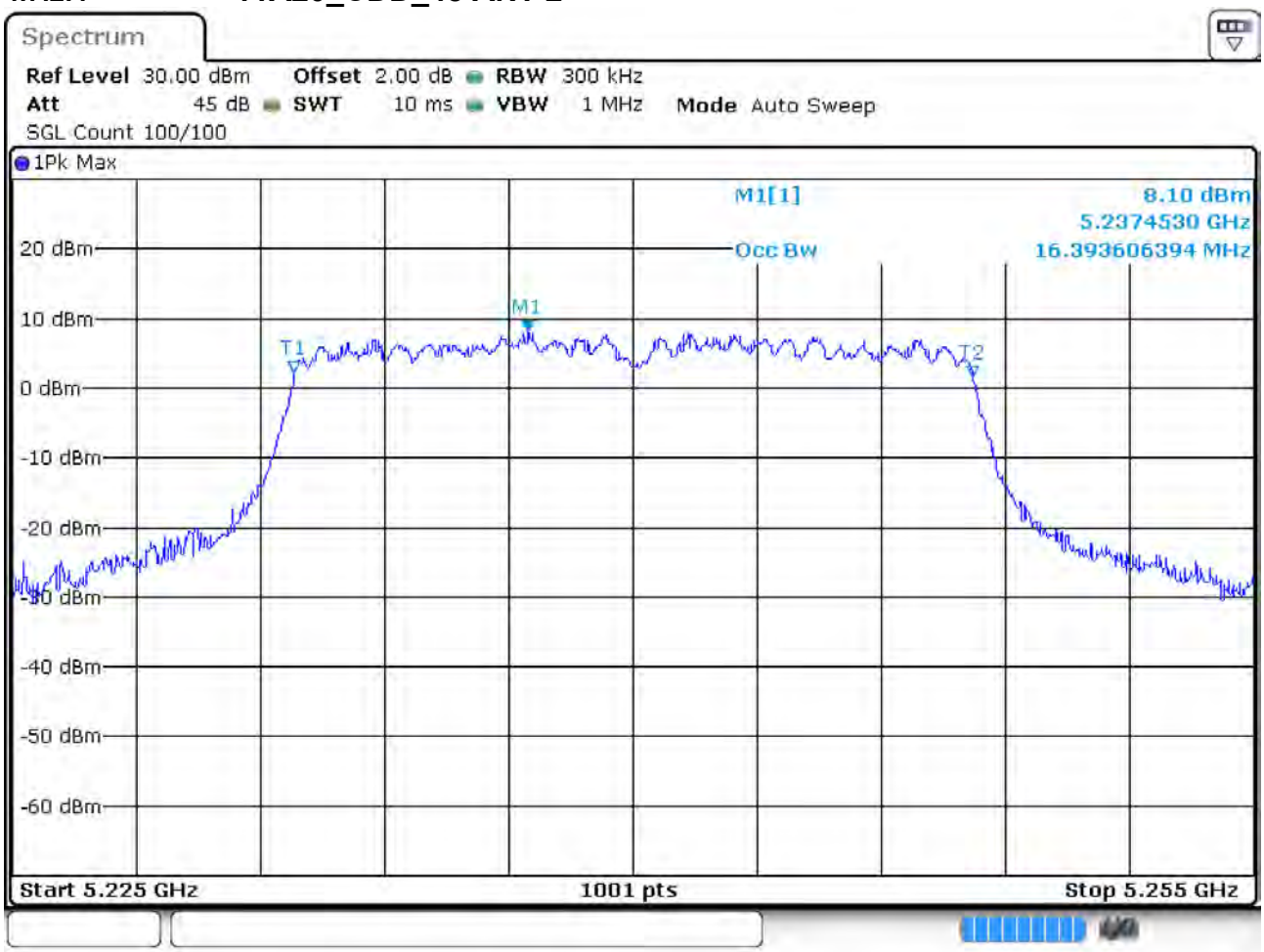
4.7.2.4 11A20_CDD_48 ANT 2



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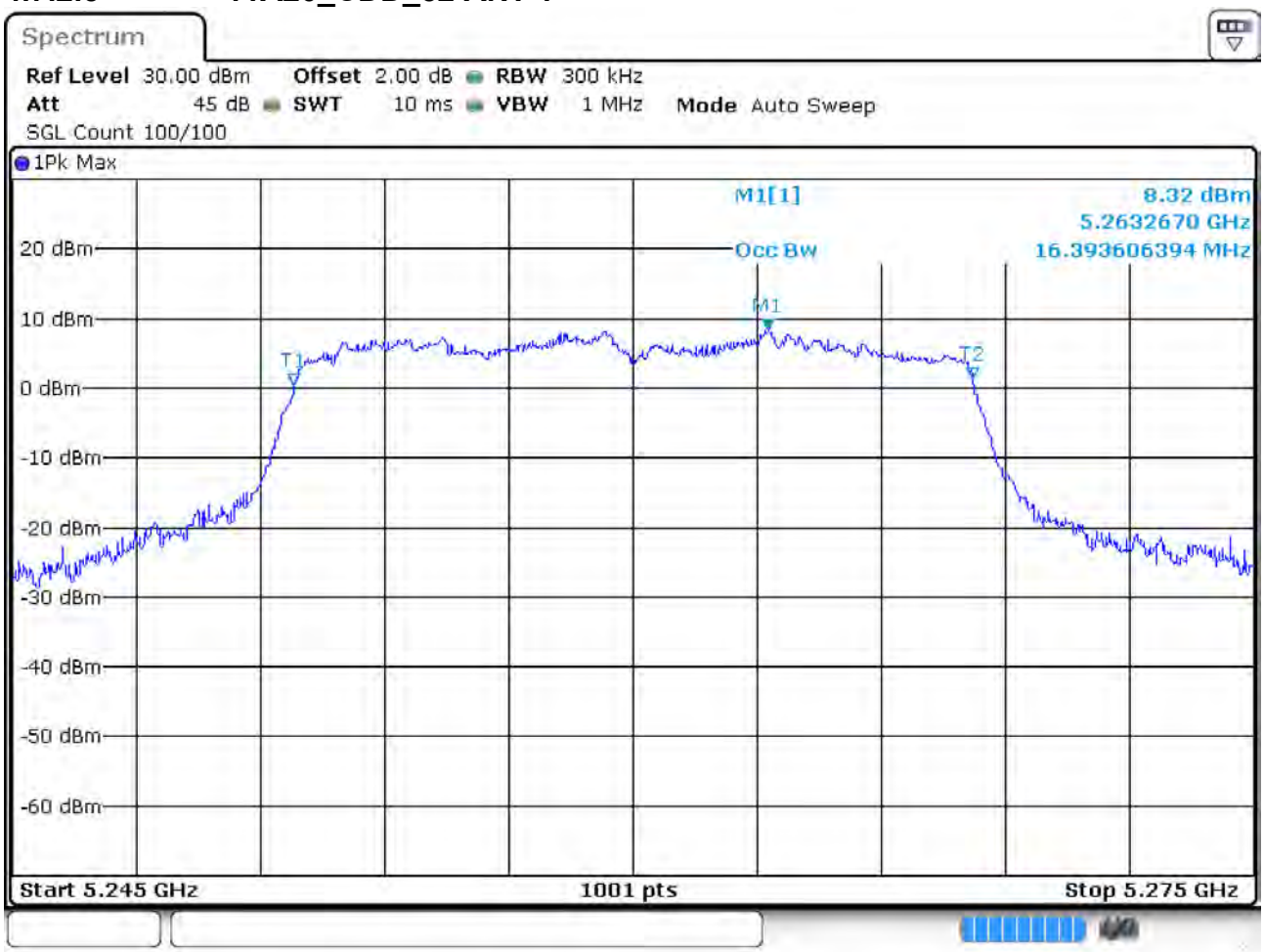
4.7.2.5 11A20_CDD_52 ANT 1



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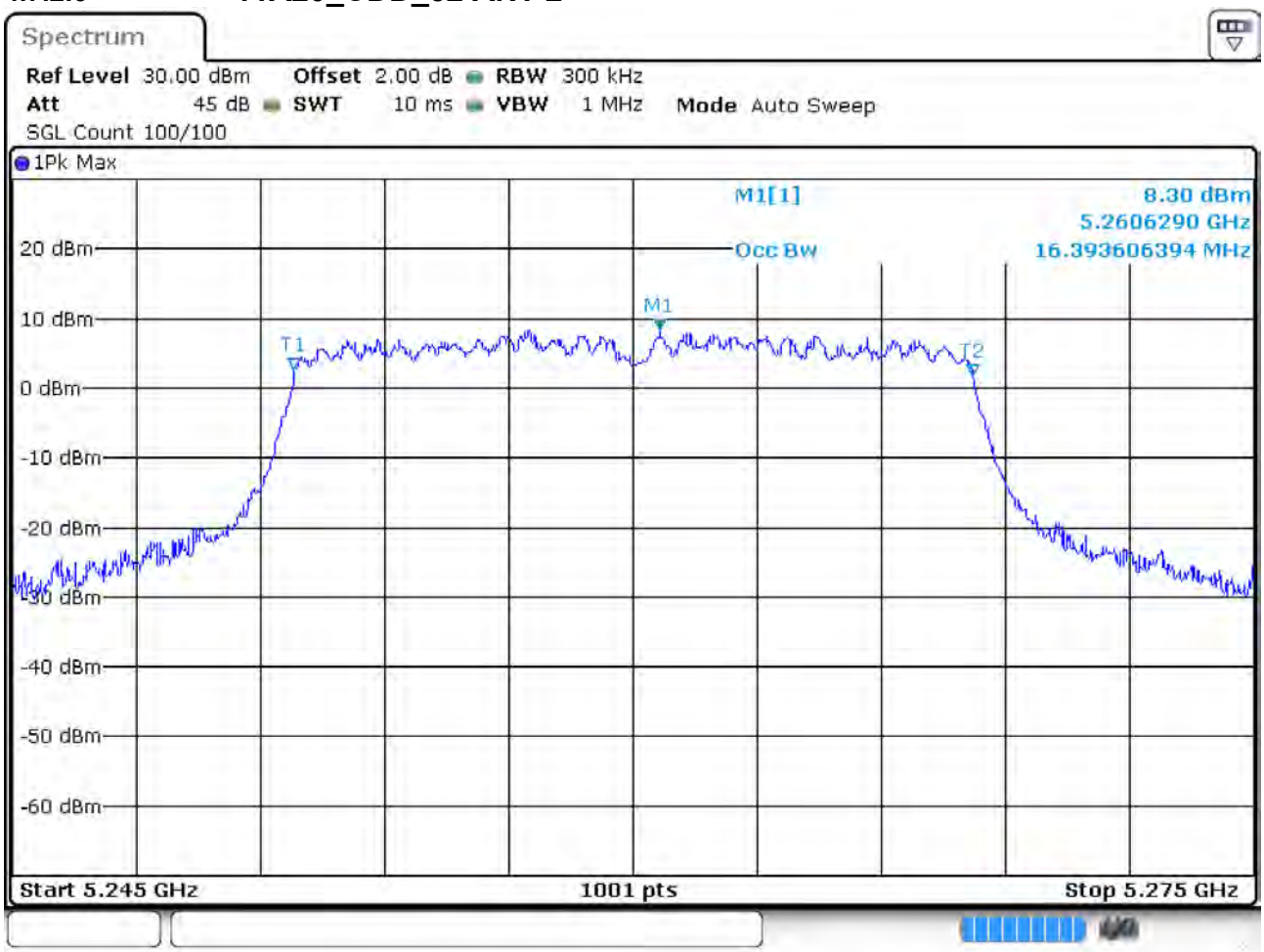
4.7.2.6 11A20_CDD_52 ANT 2



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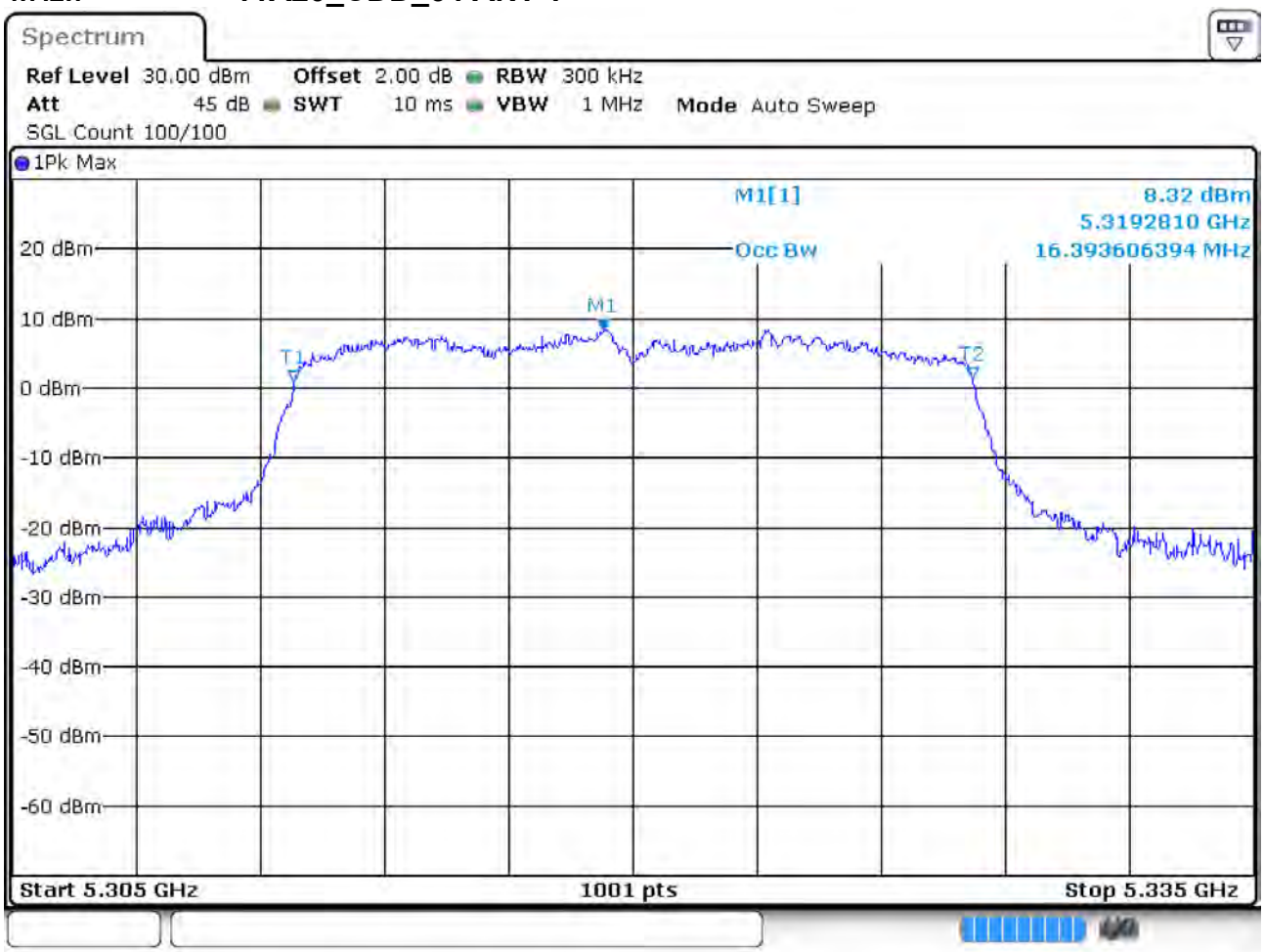
4.7.2.7 11A20_CDD_64 ANT 1



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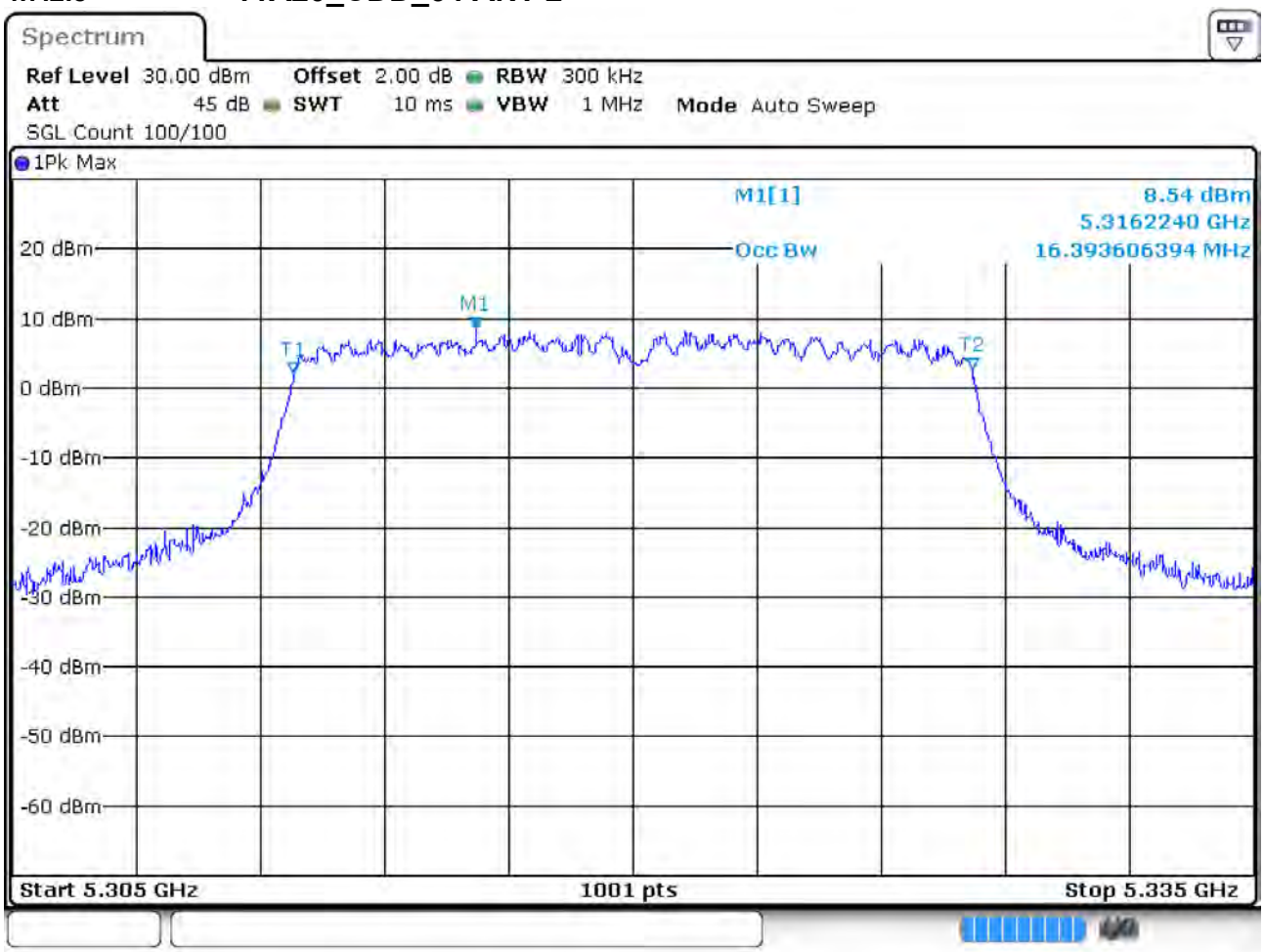
4.7.2.8 11A20_CDD_64 ANT 2



Date: 9.APR.2020 07:23:08

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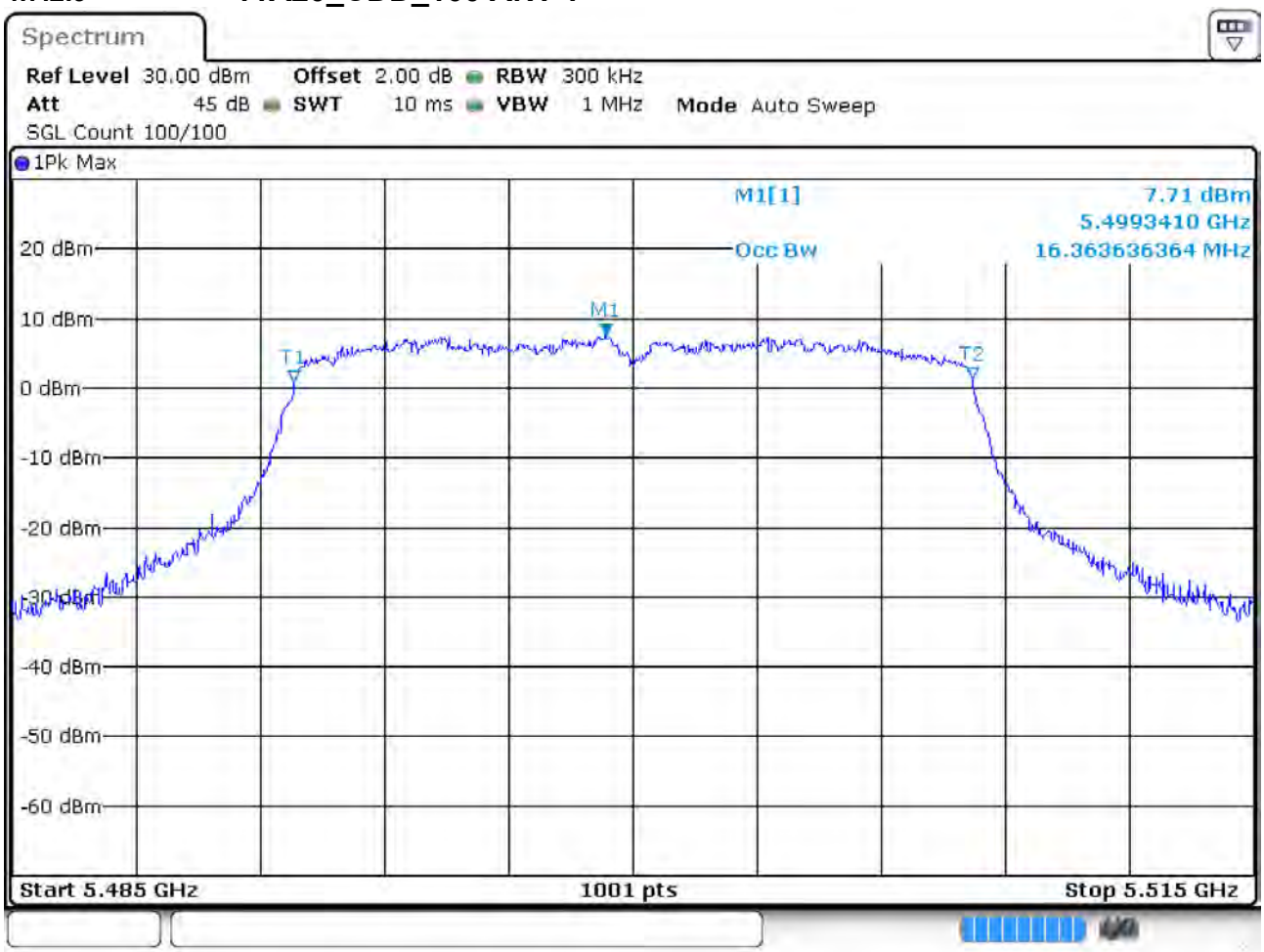
4.7.2.9 11A20_CDD_100 ANT 1



Date: 9.APR.2020 03:54:43

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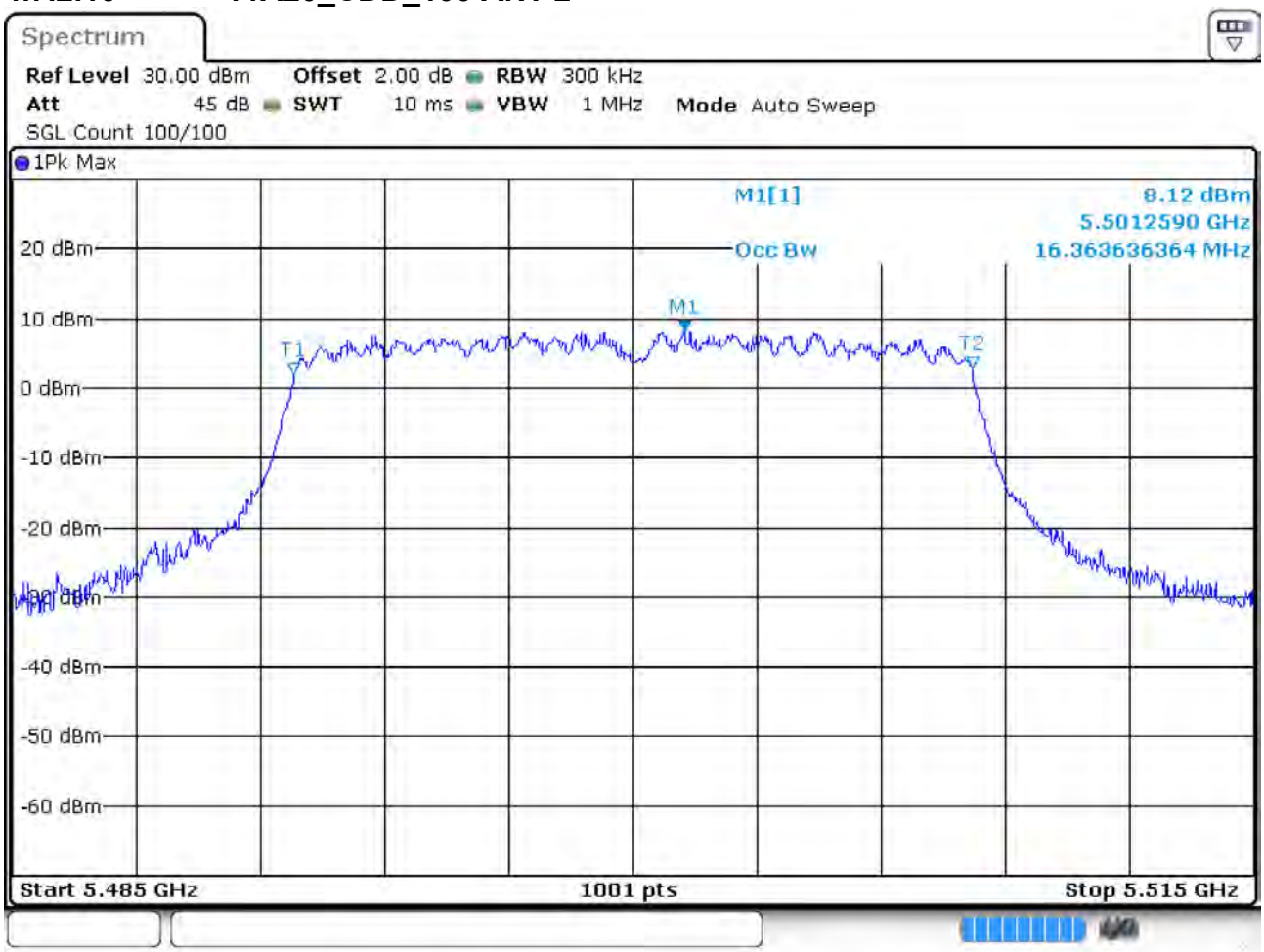
4.7.2.10 11A20_CDD_100 ANT 2



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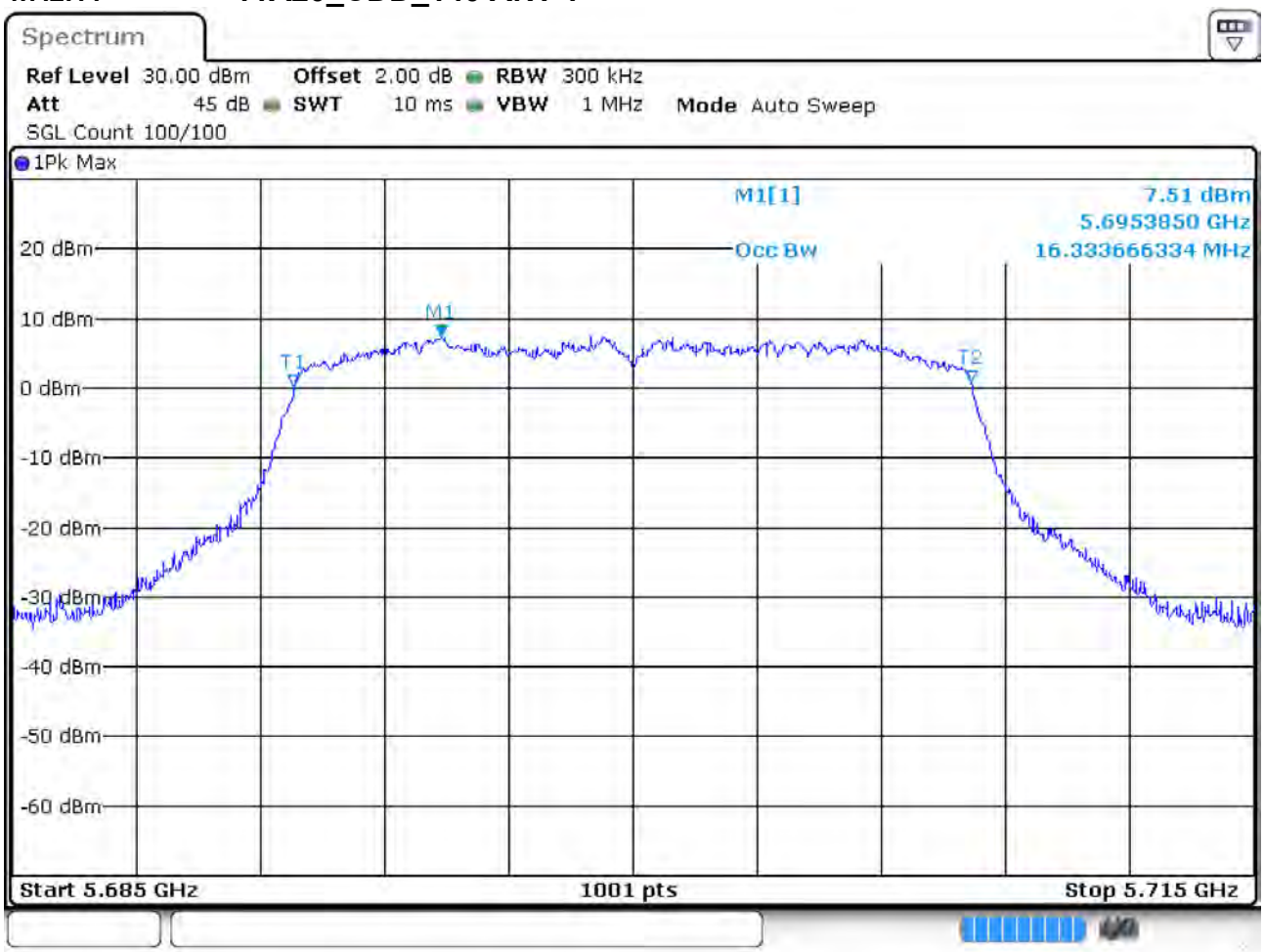
4.7.2.11 11A20_CDD_140 ANT 1



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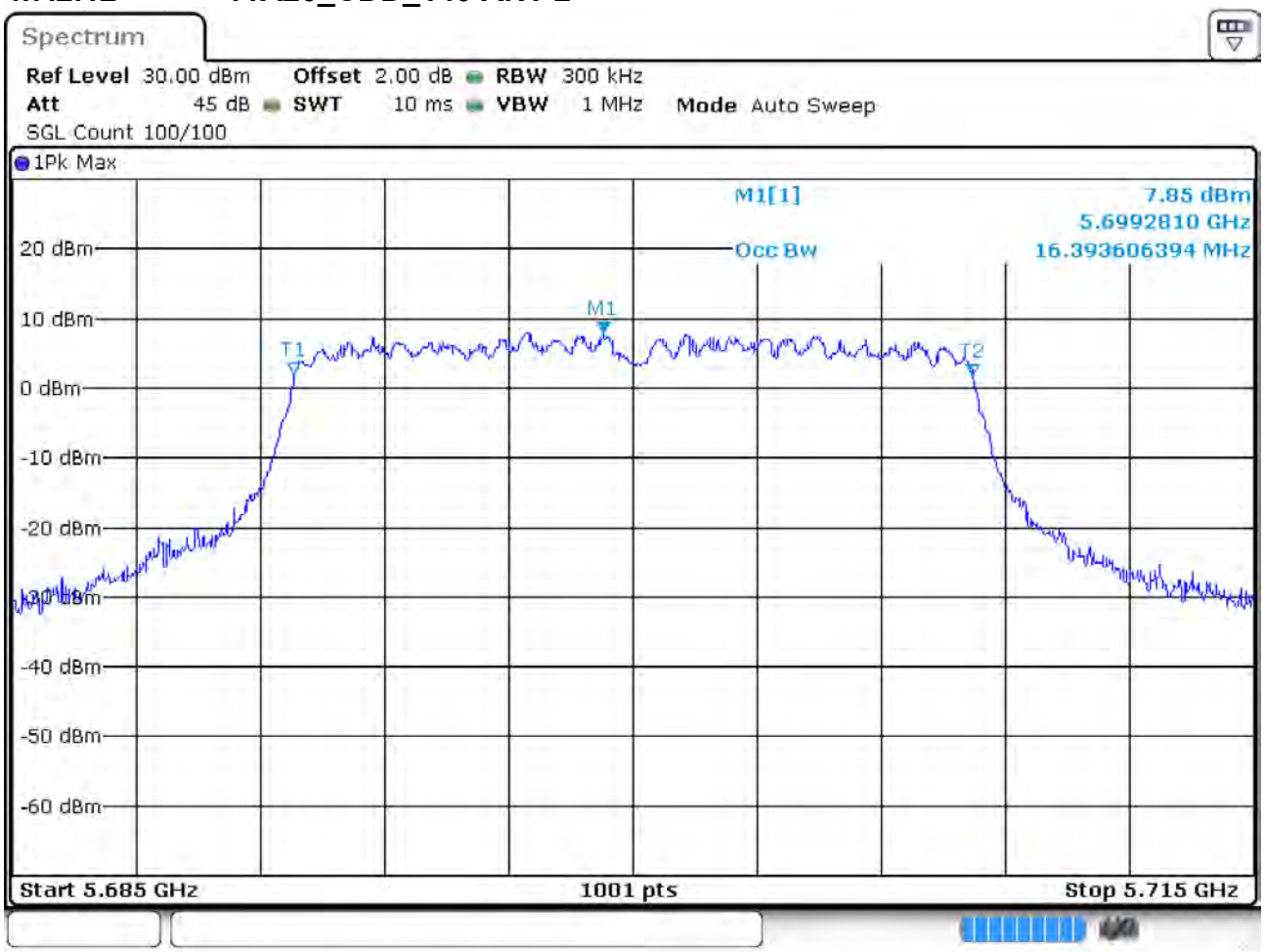
4.7.2.12 11A20_CDD_140 ANT 2



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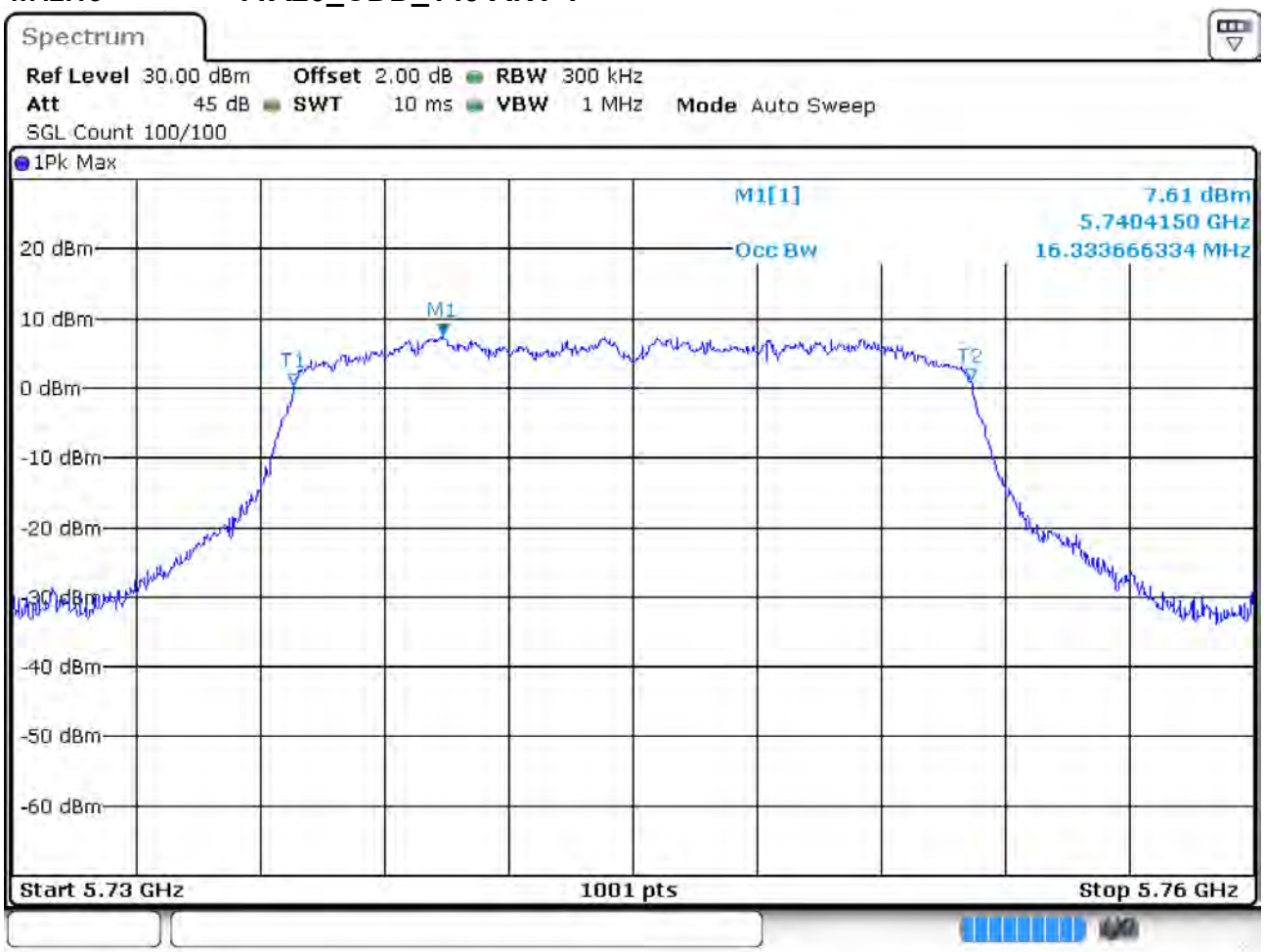
4.7.2.13 11A20_CDD_149 ANT 1



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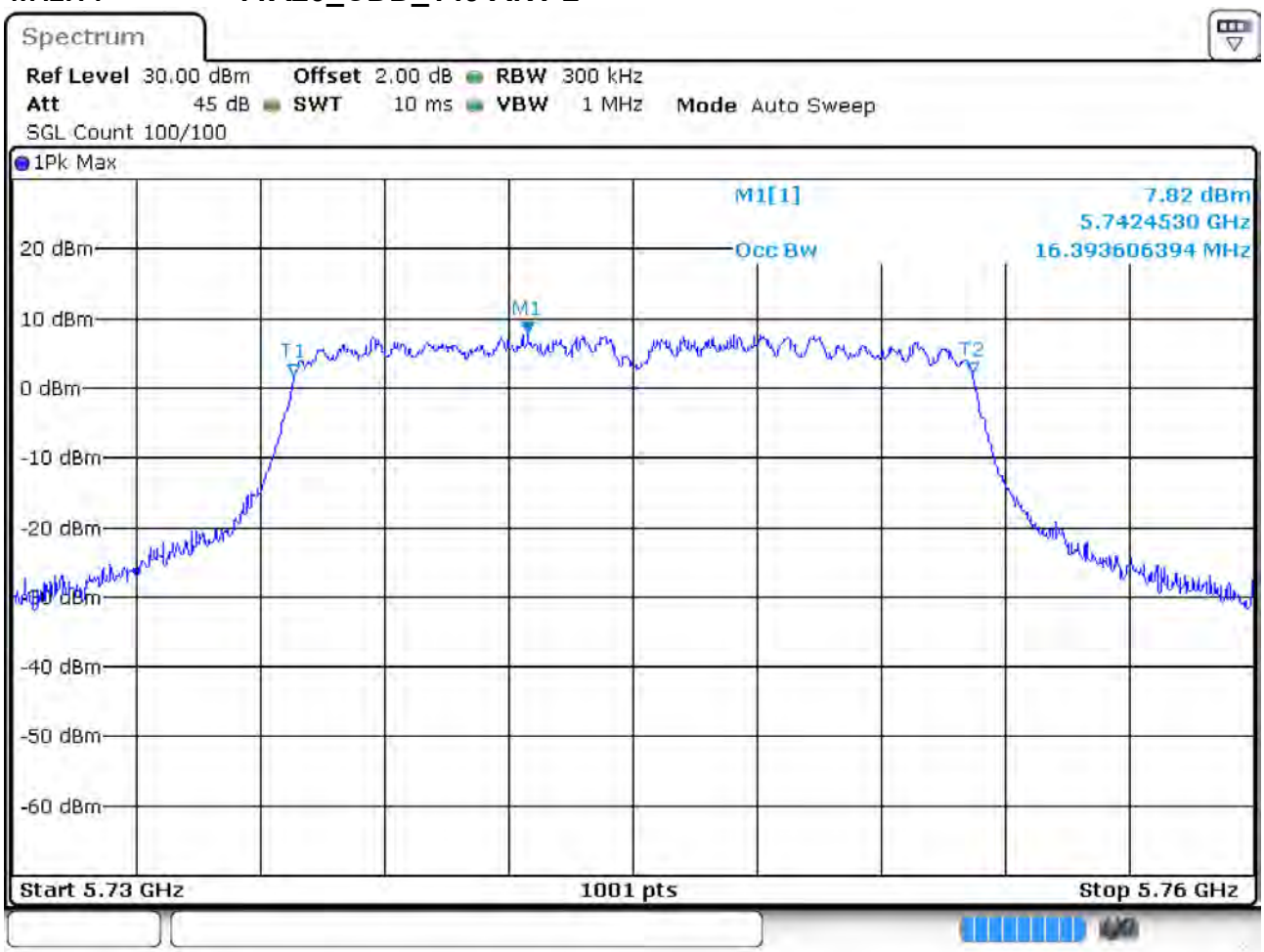
4.7.2.14 11A20_CDD_149 ANT 2



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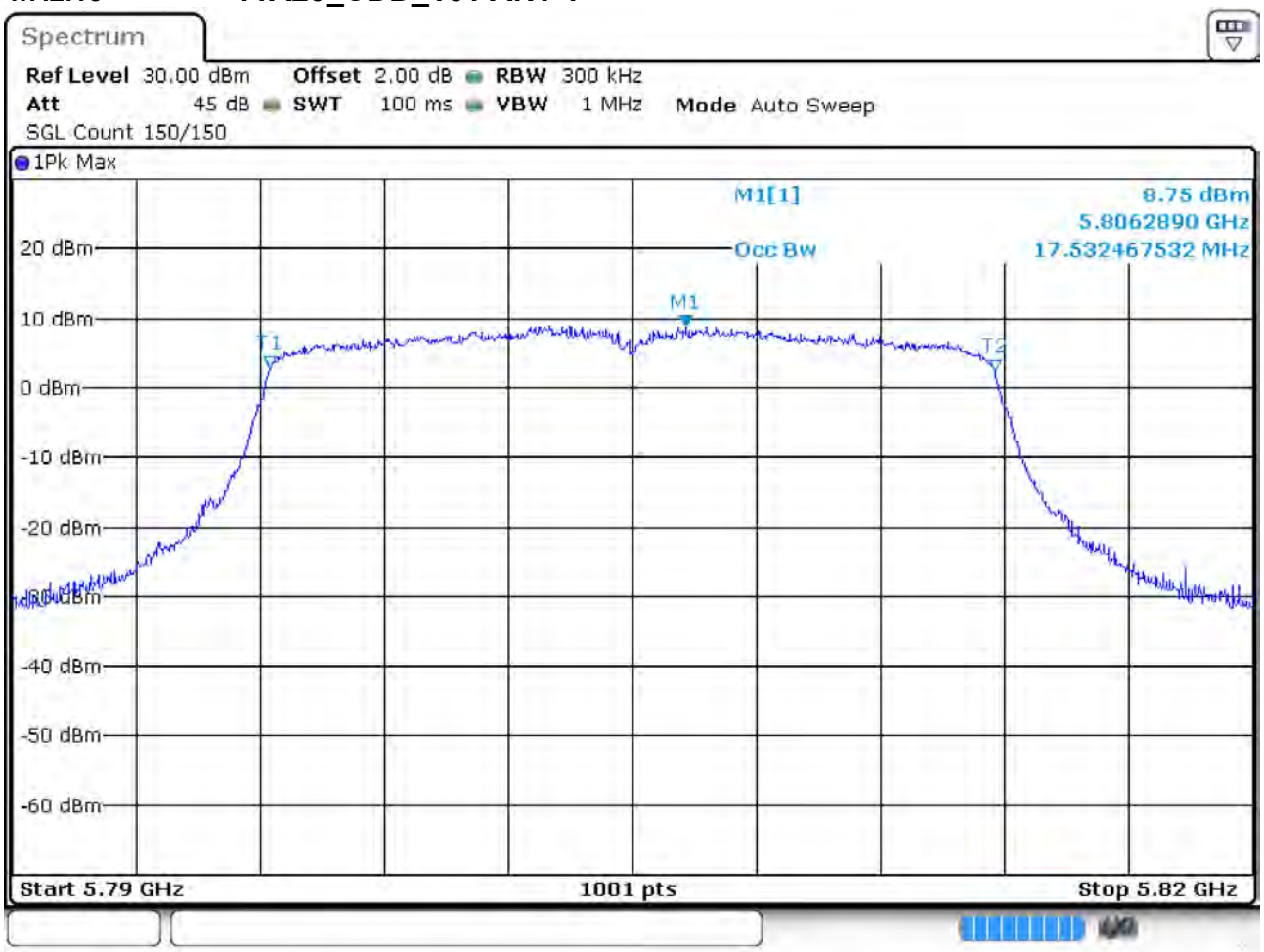
4.7.2.15 11A20_CDD_161 ANT 1



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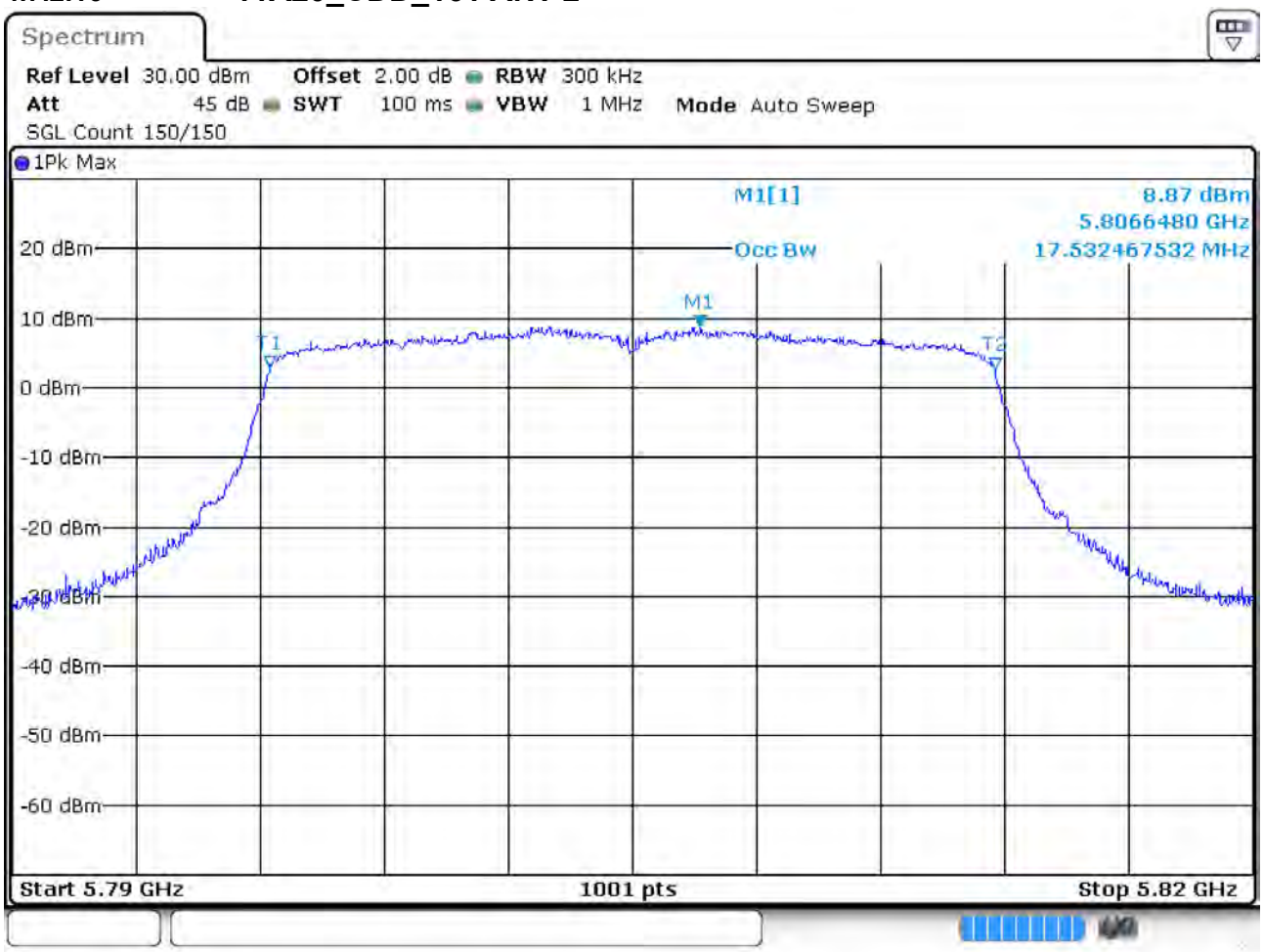
4.7.2.16 11A20_CDD_161 ANT 2



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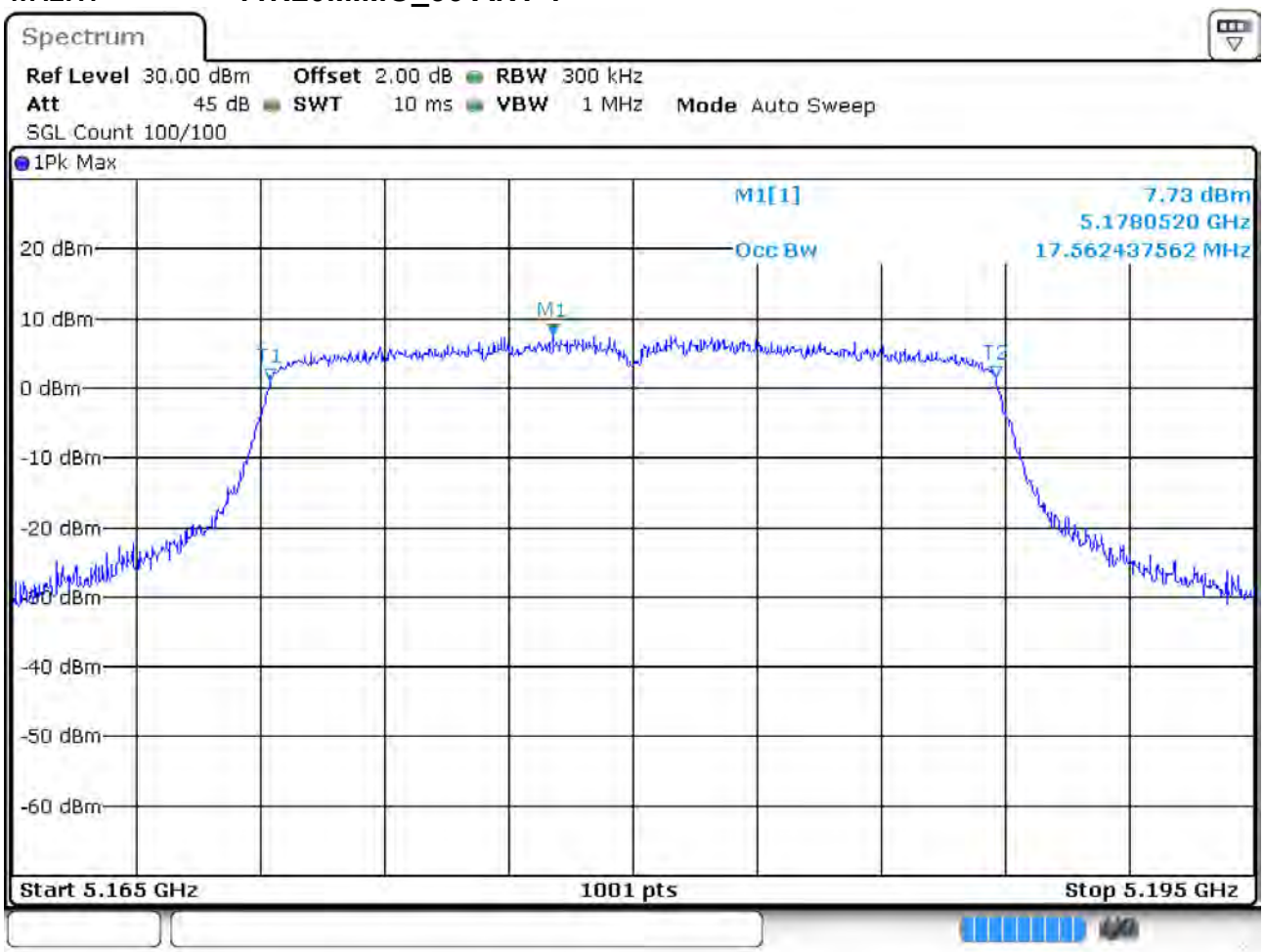
4.7.2.17 11N20MIMO_36 ANT 1



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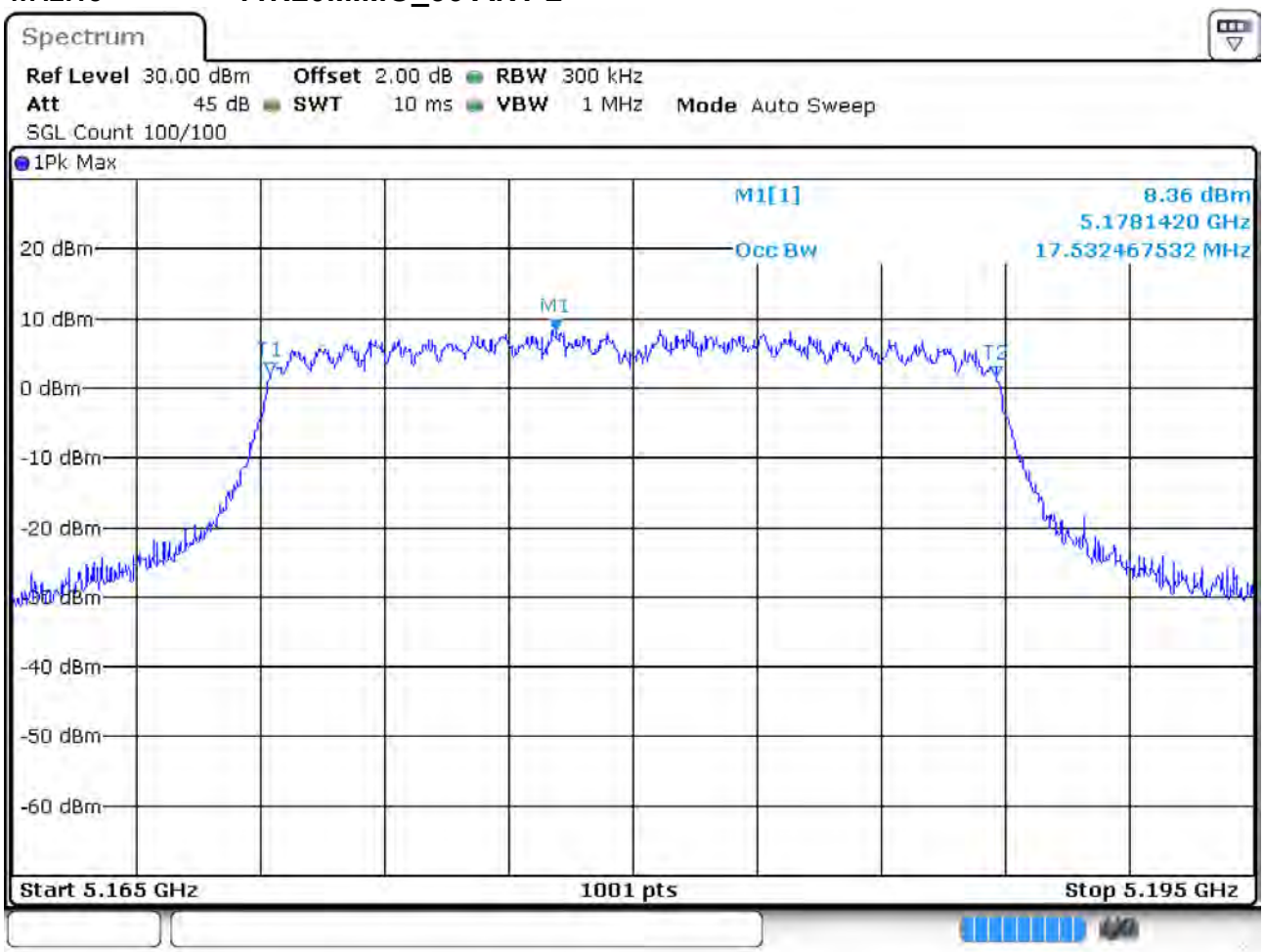
4.7.2.18 11N20MIMO_36 ANT 2



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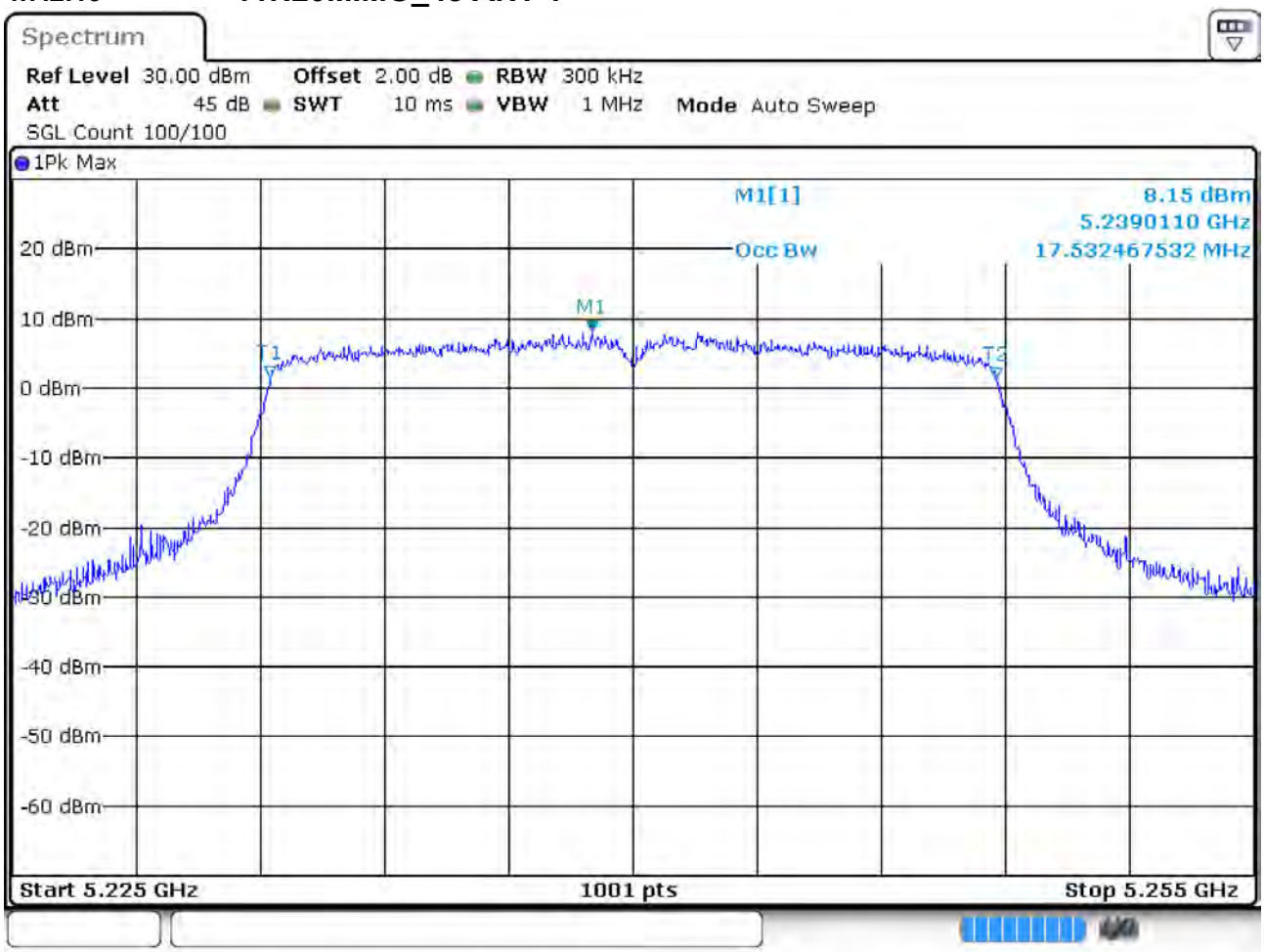
4.7.2.19 11N20MIMO_48 ANT 1



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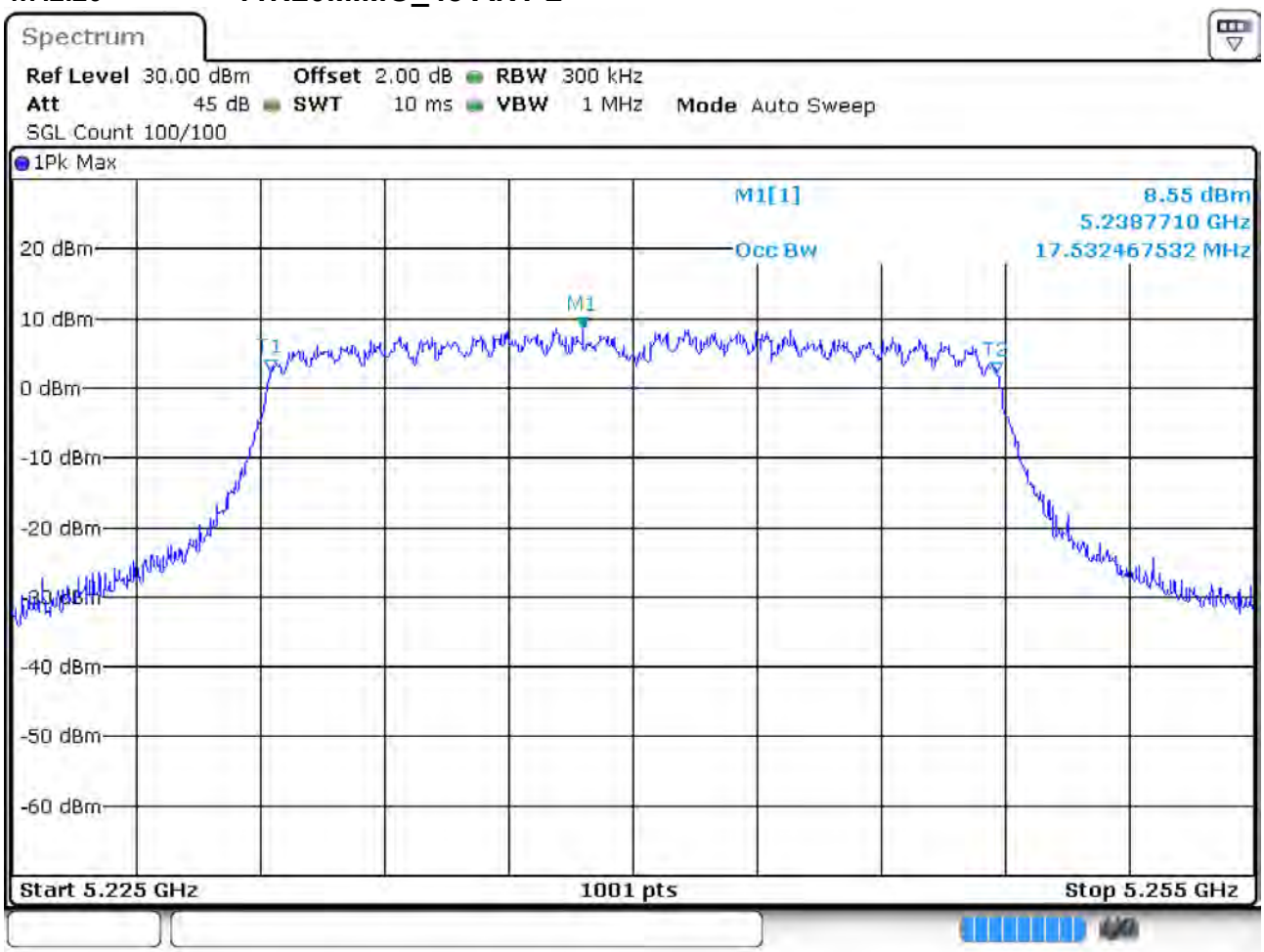
4.7.2.20 11N20MIMO_48 ANT 2



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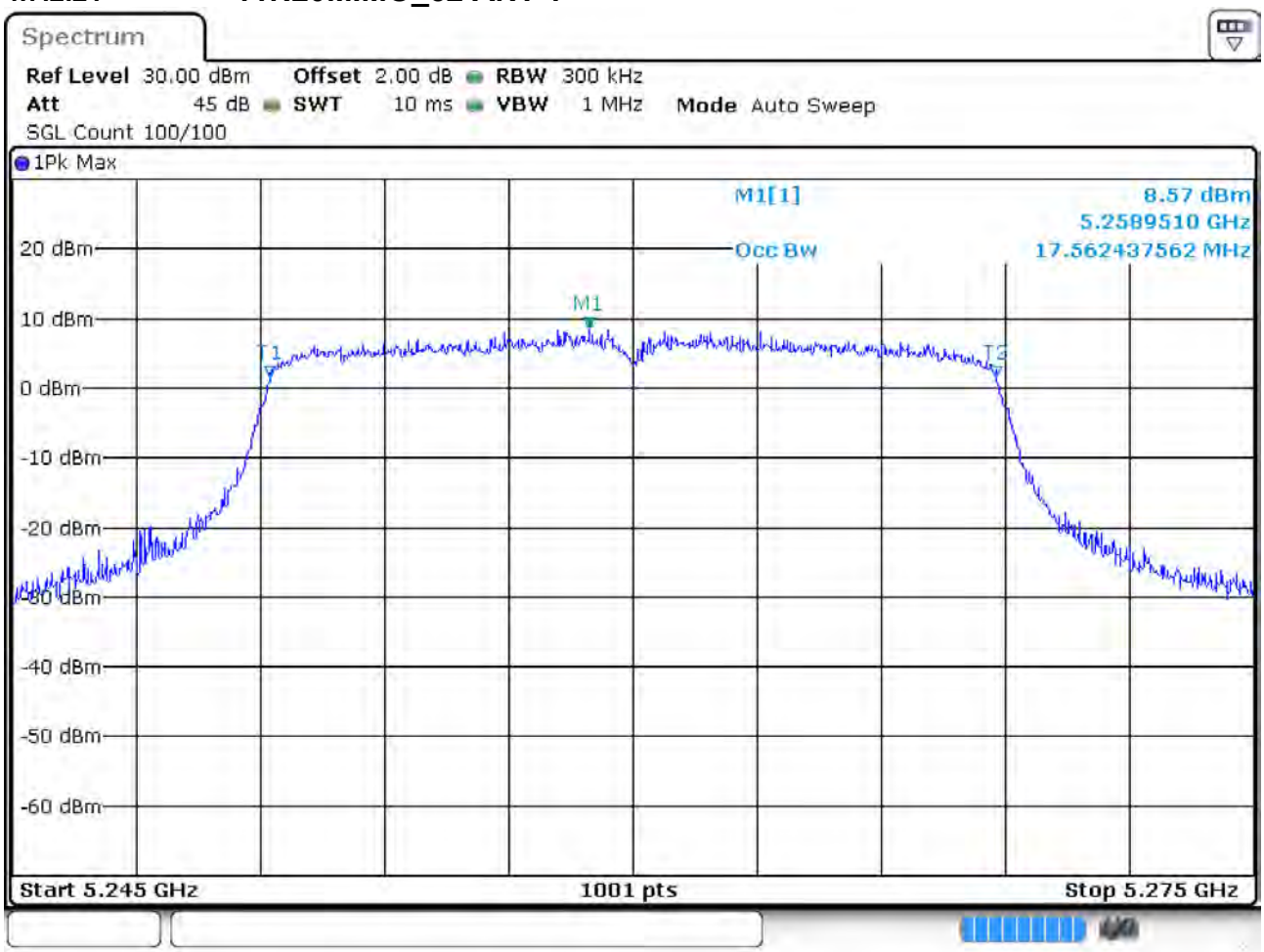
4.7.2.21 11N20MIMO_52 ANT 1



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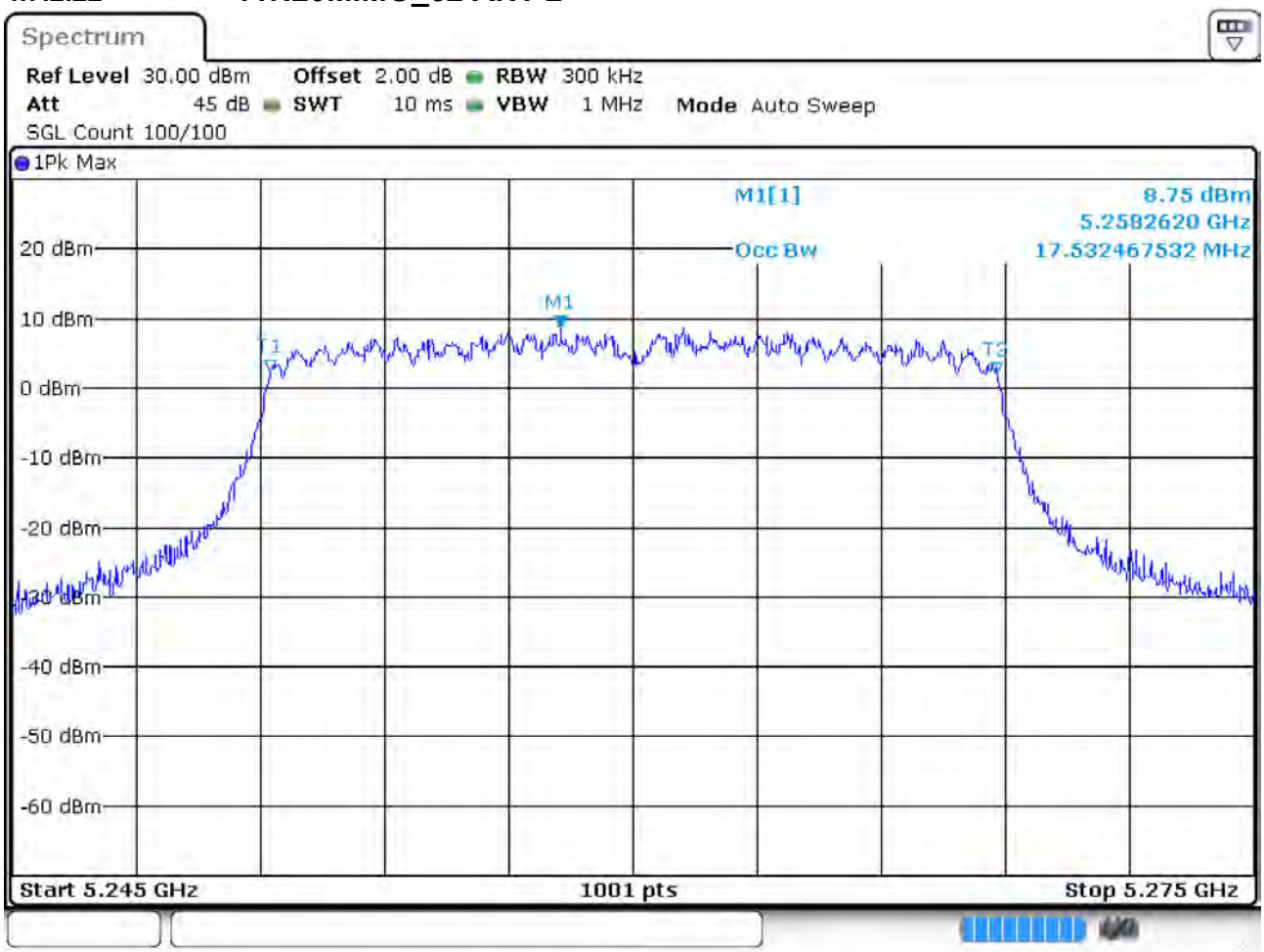
4.7.2.22 11N20MIMO_52 ANT 2



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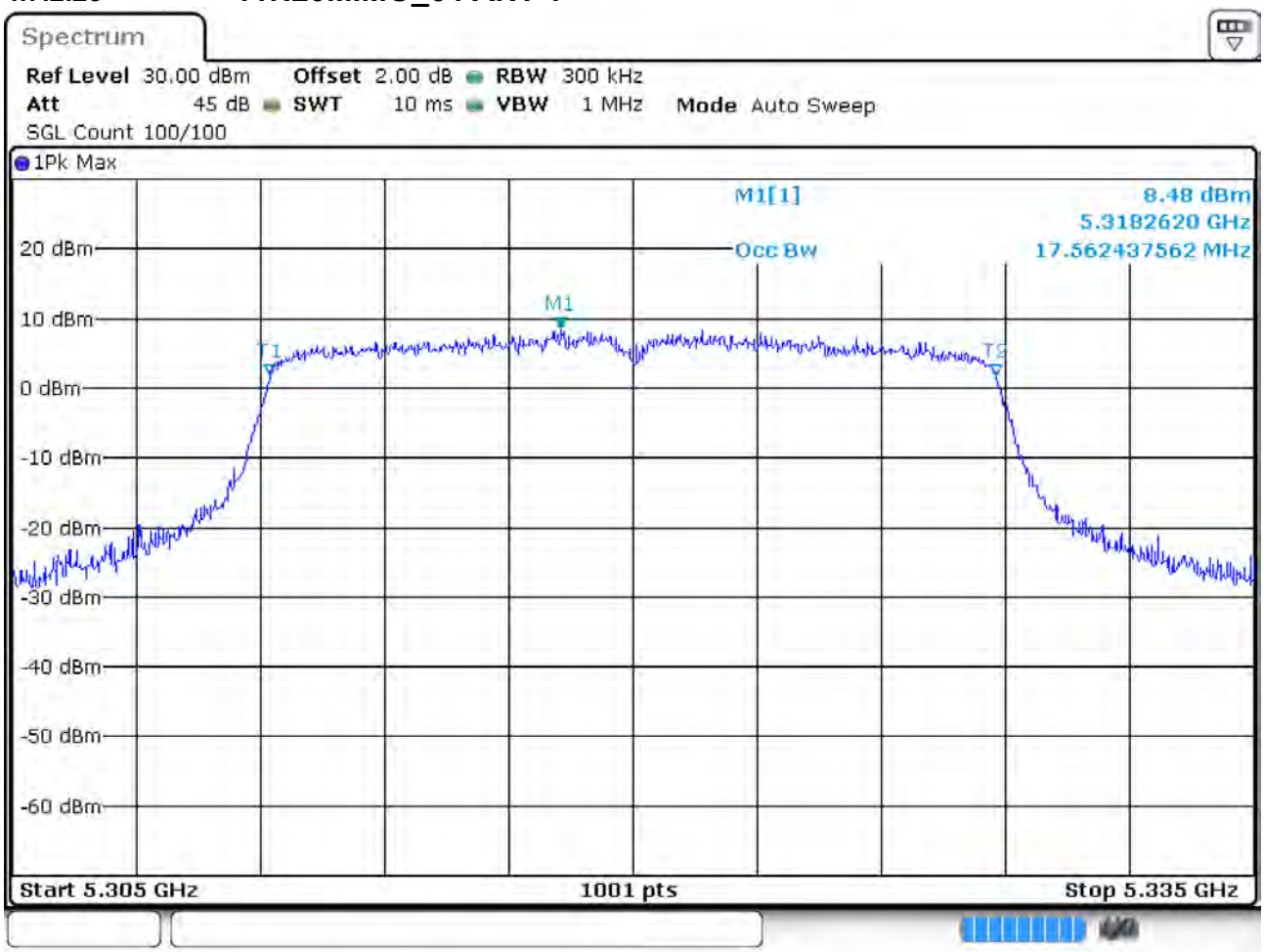
4.7.2.23 11N20MIMO_64 ANT 1



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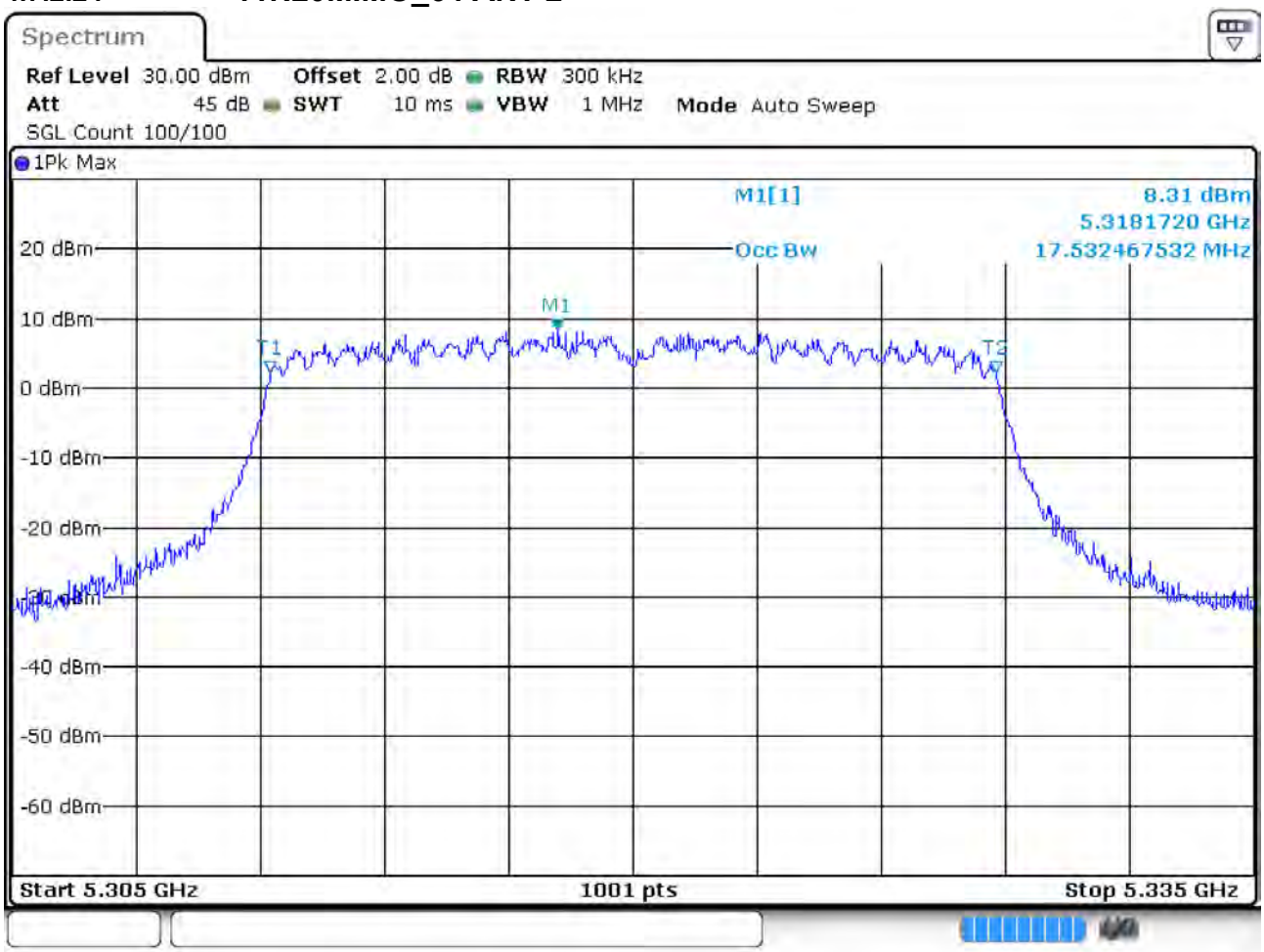
4.7.2.24 11N20MIMO_64 ANT 2



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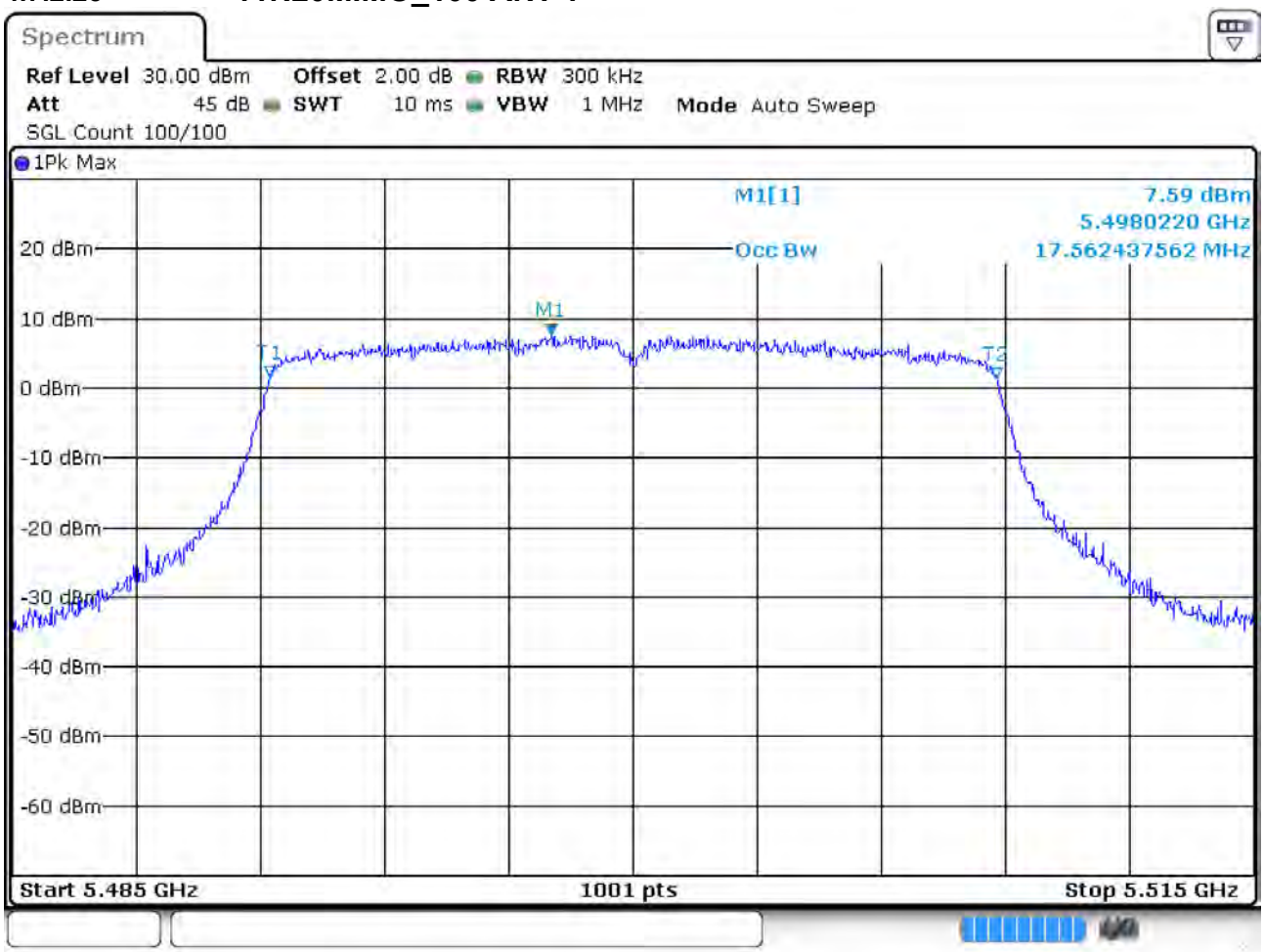
4.7.2.25 11N20MIMO_100 ANT 1



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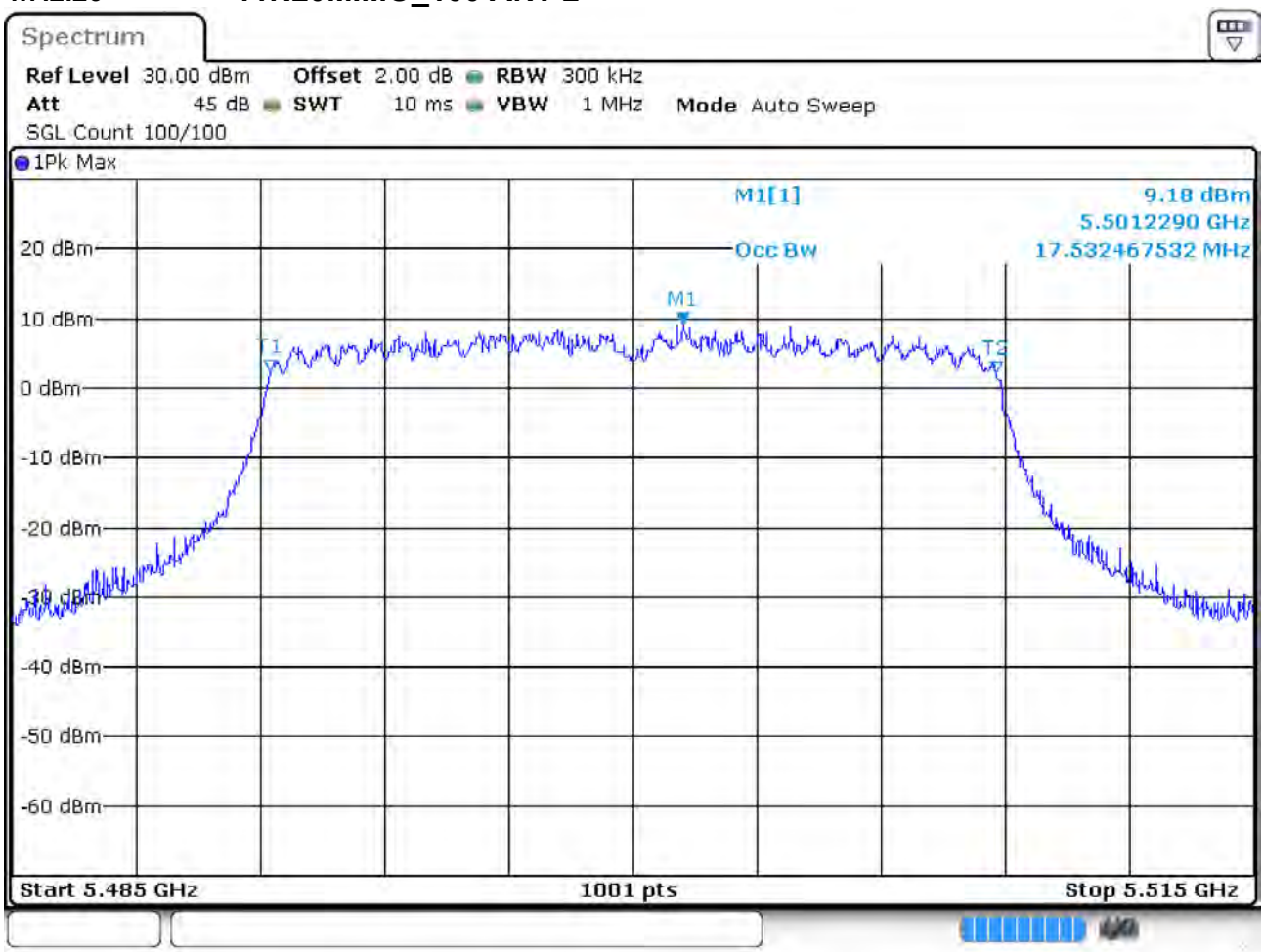
4.7.2.26 11N20MIMO_100 ANT 2



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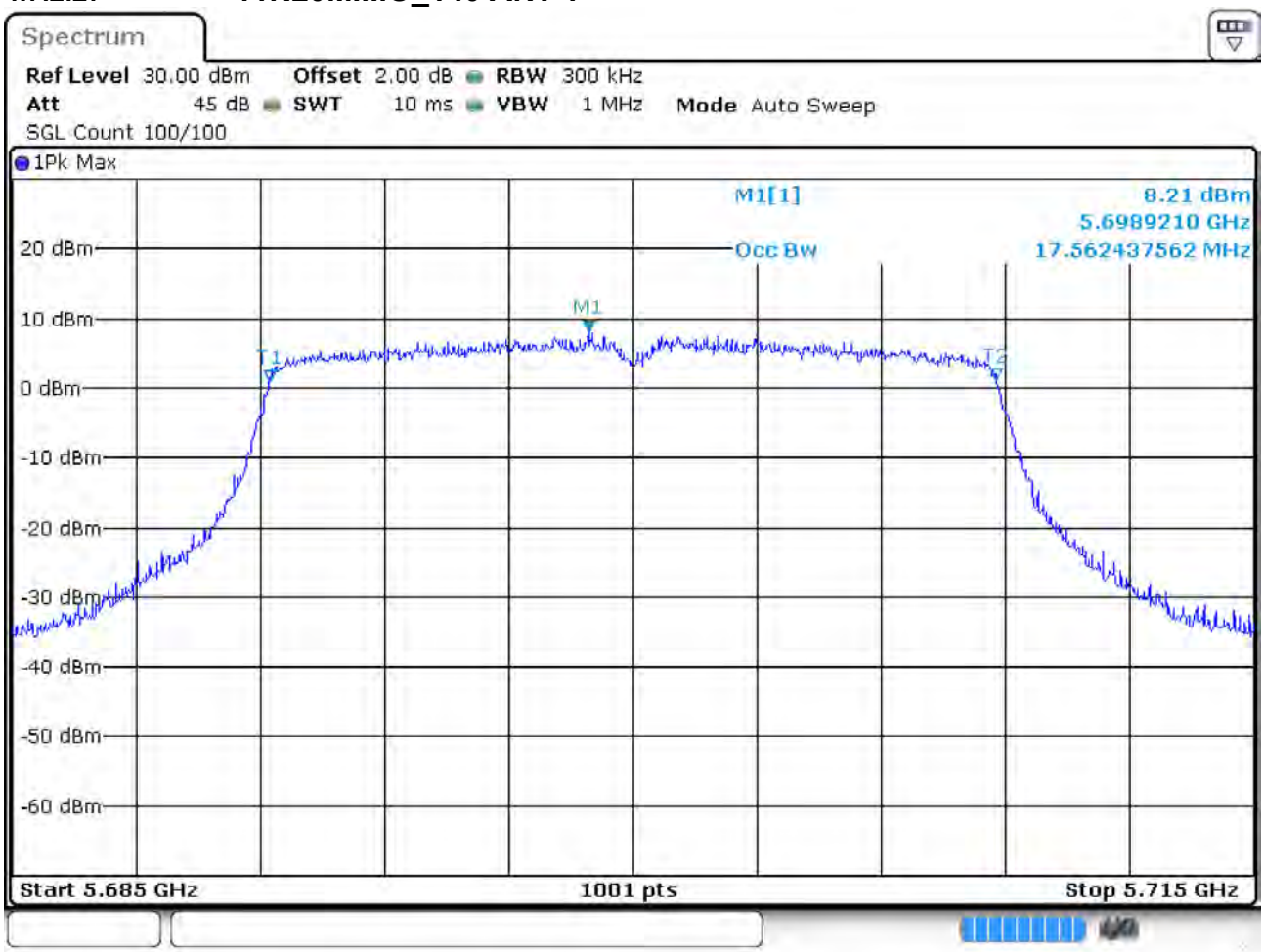
4.7.2.27 11N20MIMO_140 ANT 1



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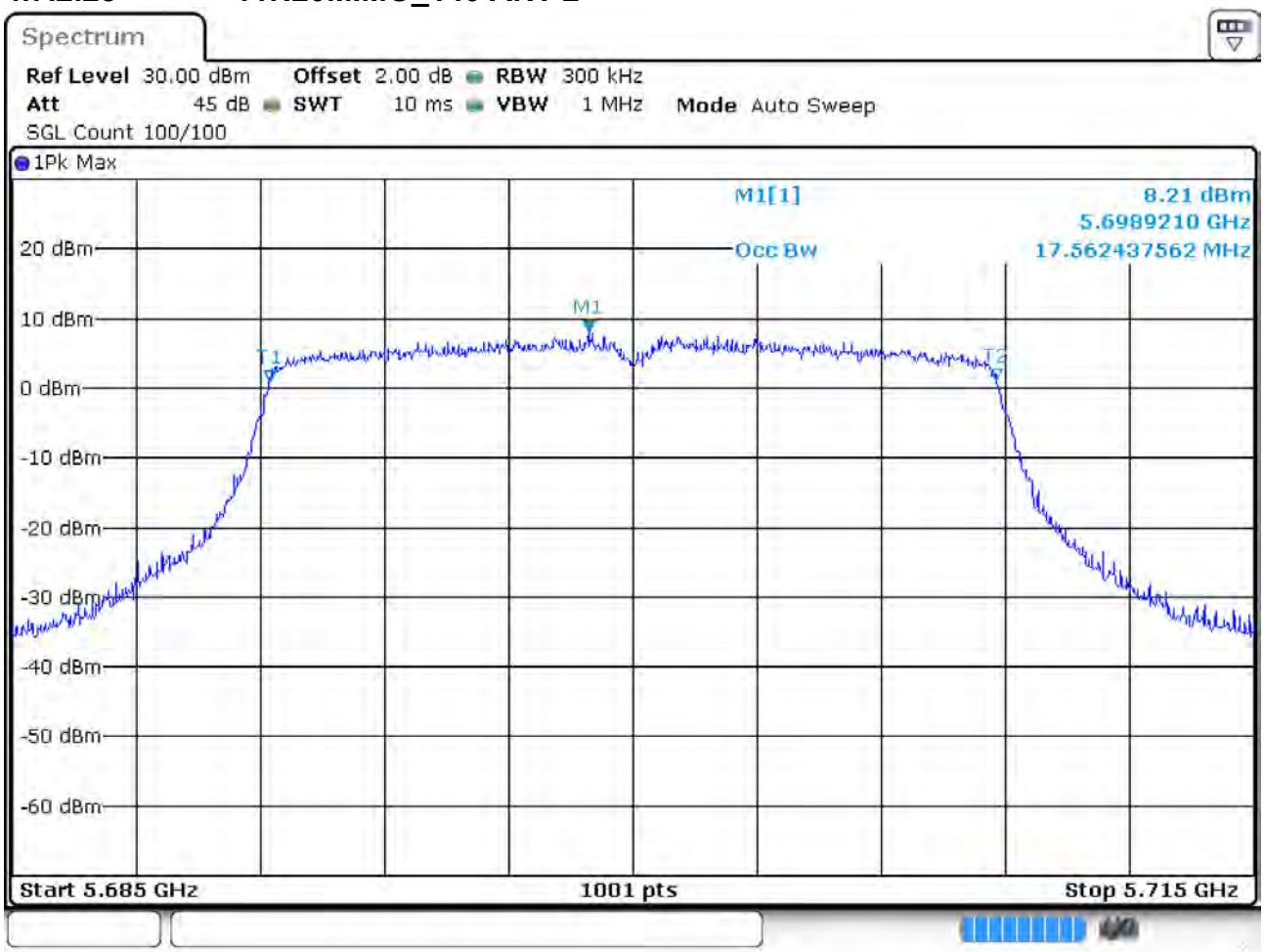
4.7.2.28 11N20MIMO_140 ANT 2



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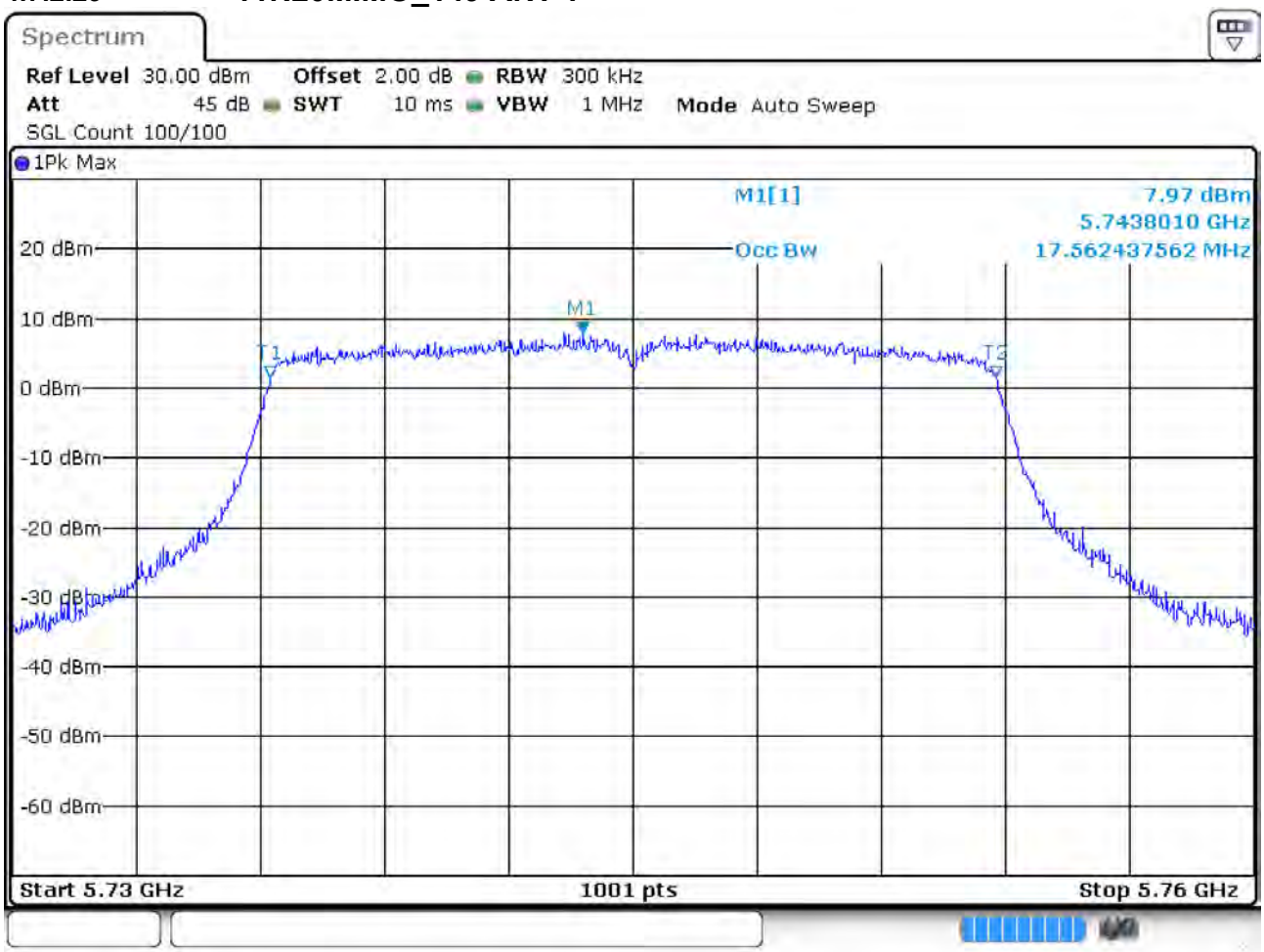
4.7.2.29 11N20MIMO_149 ANT 1



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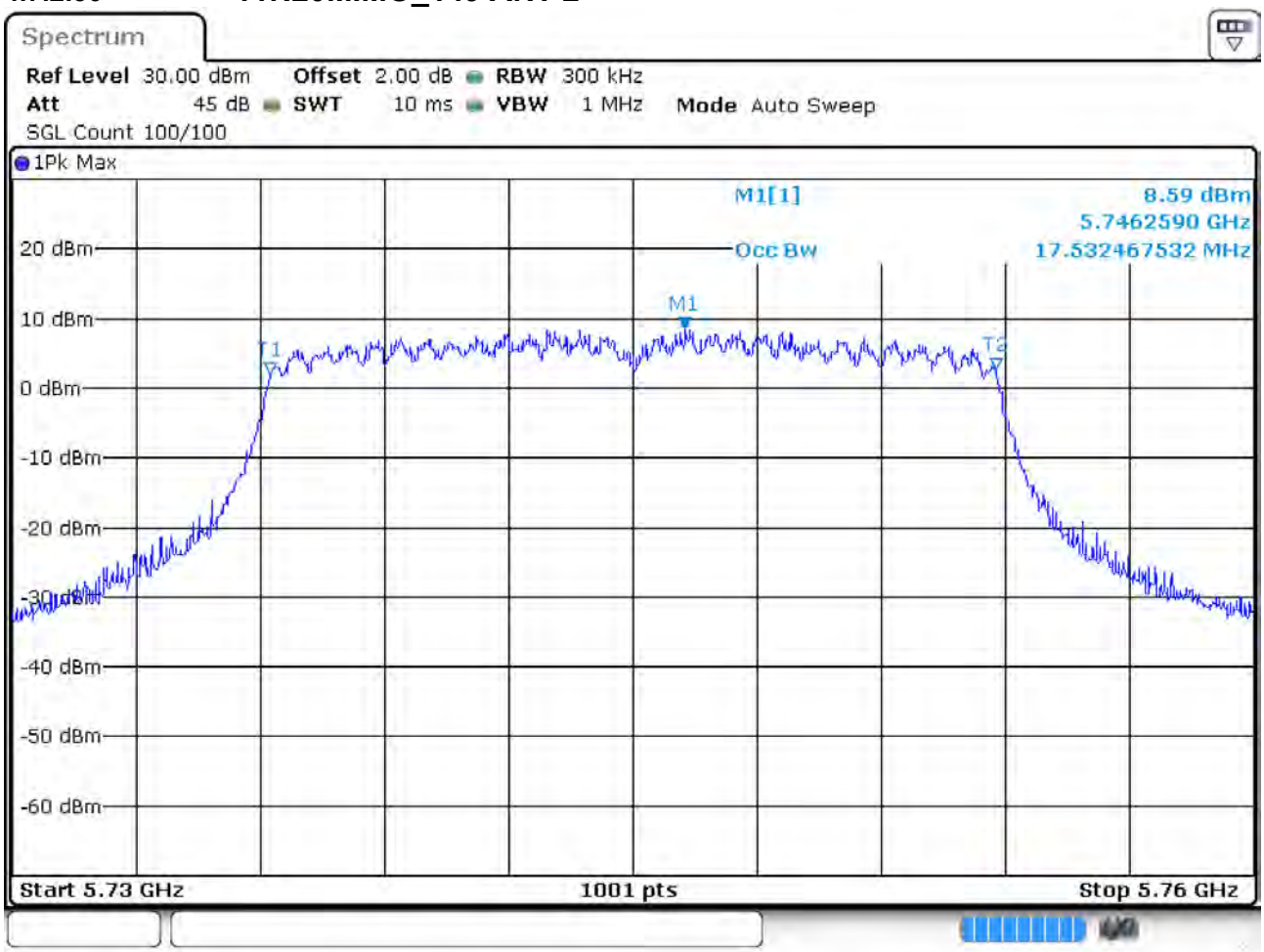

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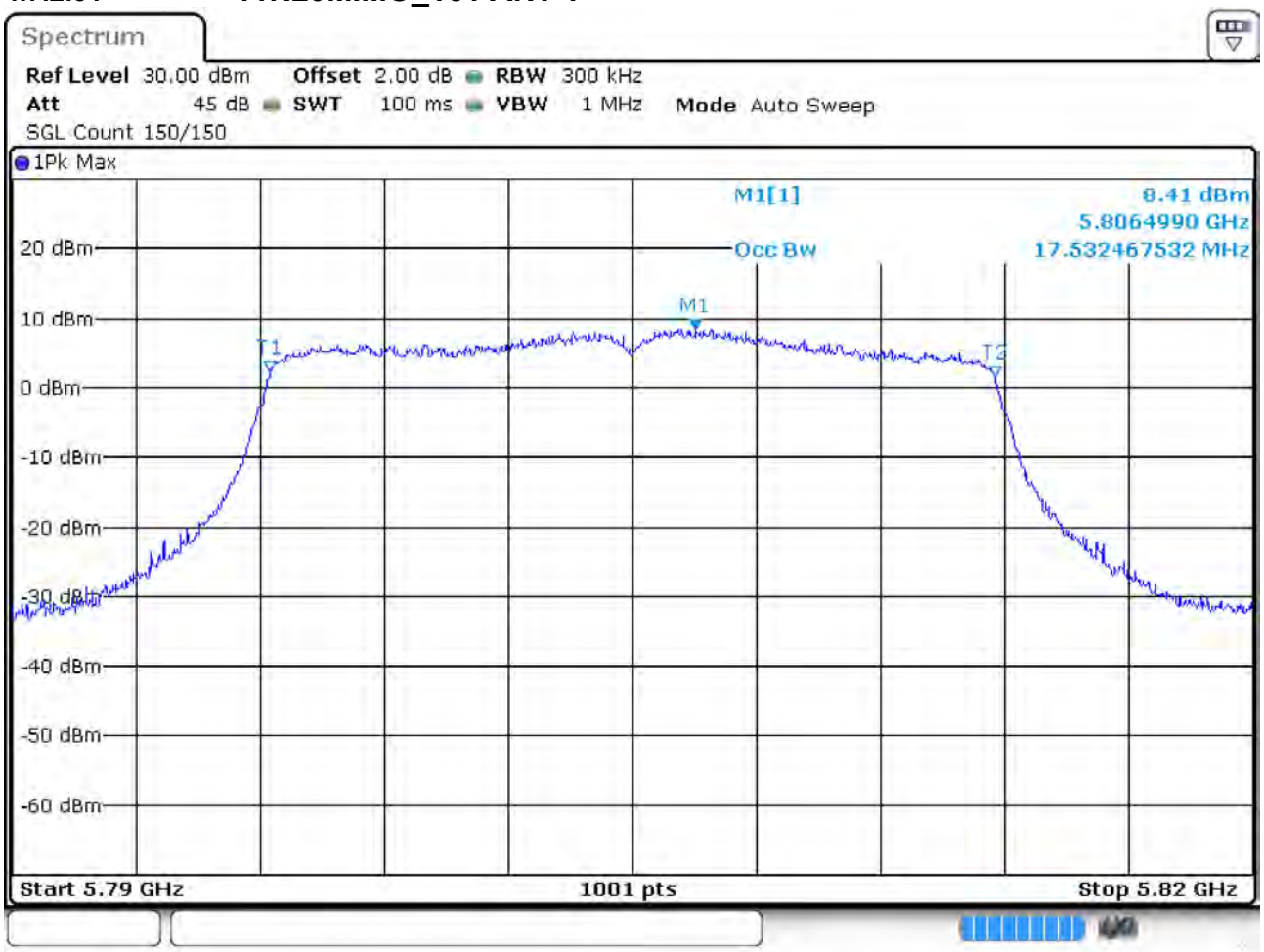
4.7.2.31 11N20MIMO_161 ANT 1



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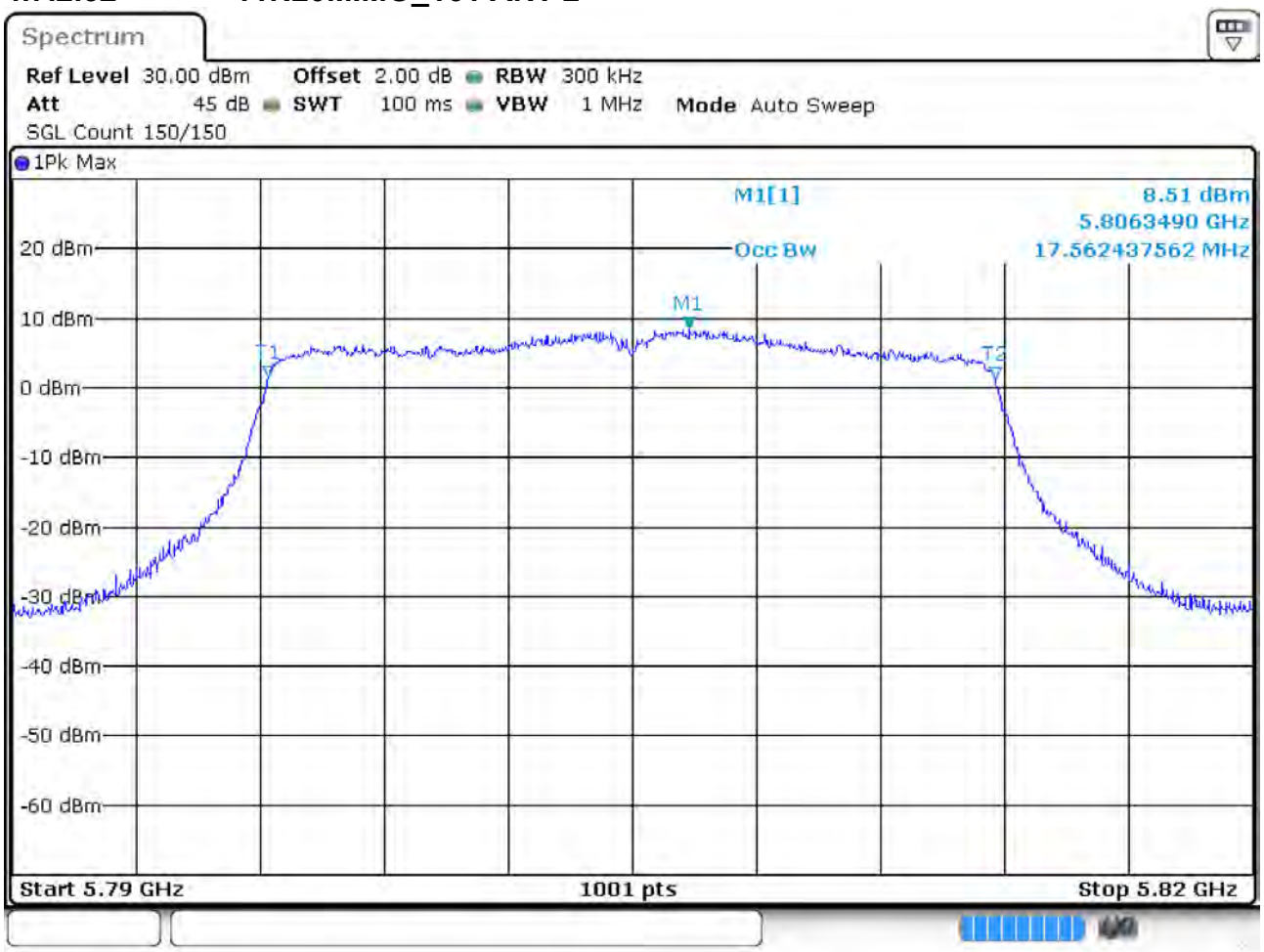
4.7.2.32 11N20MIMO_161 ANT 2



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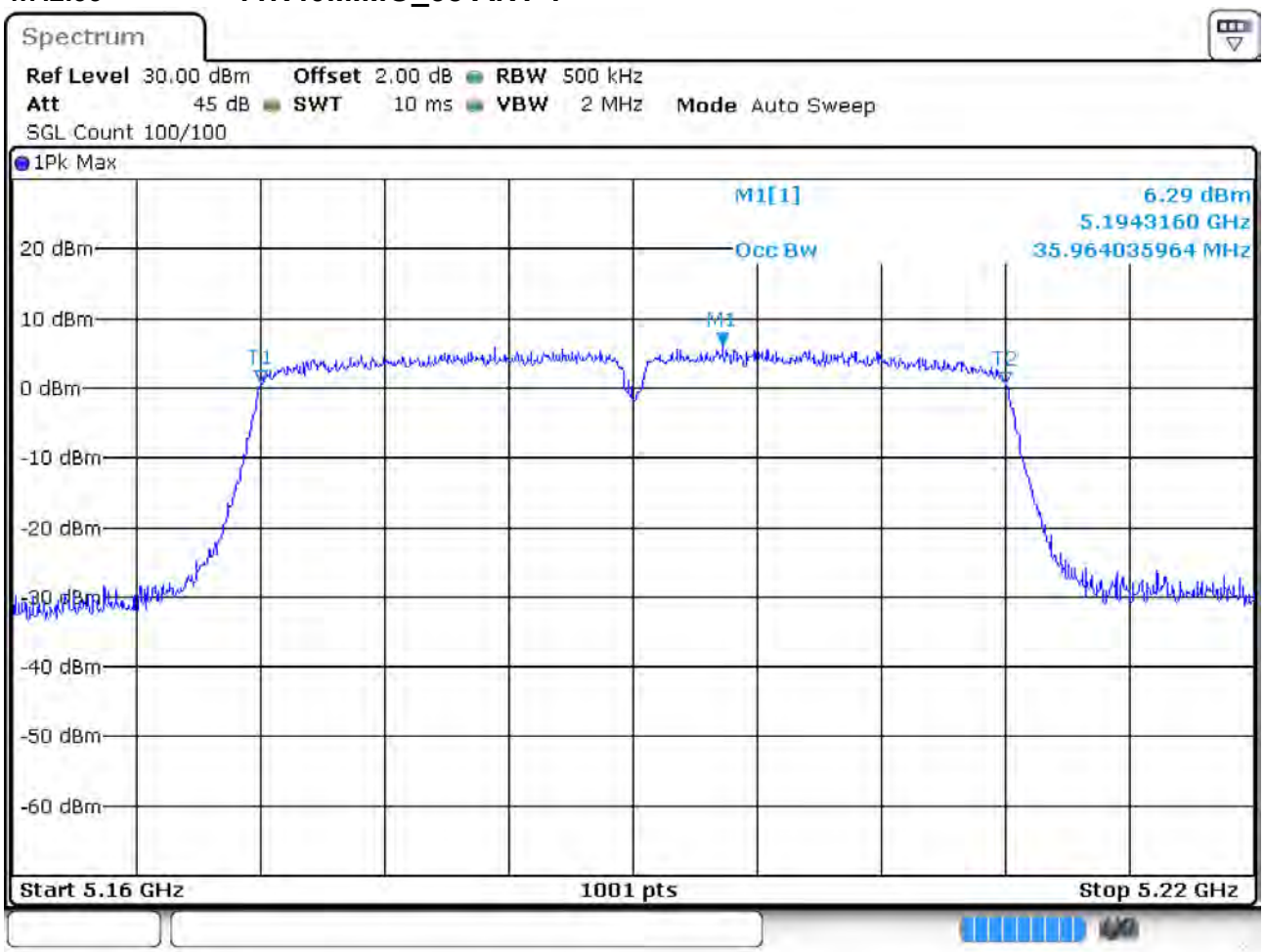
4.7.2.33 11N40MIMO_38 ANT 1



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