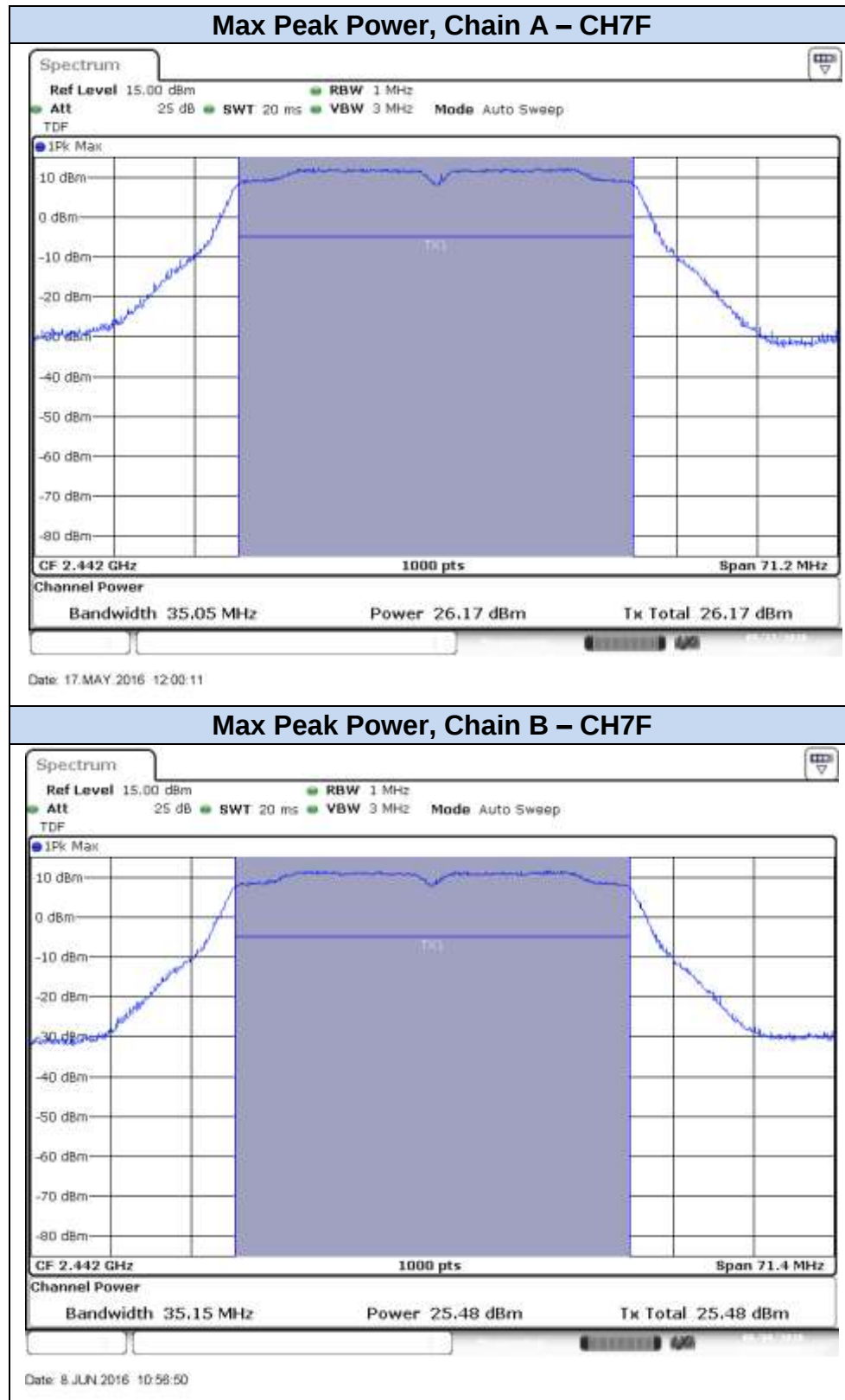
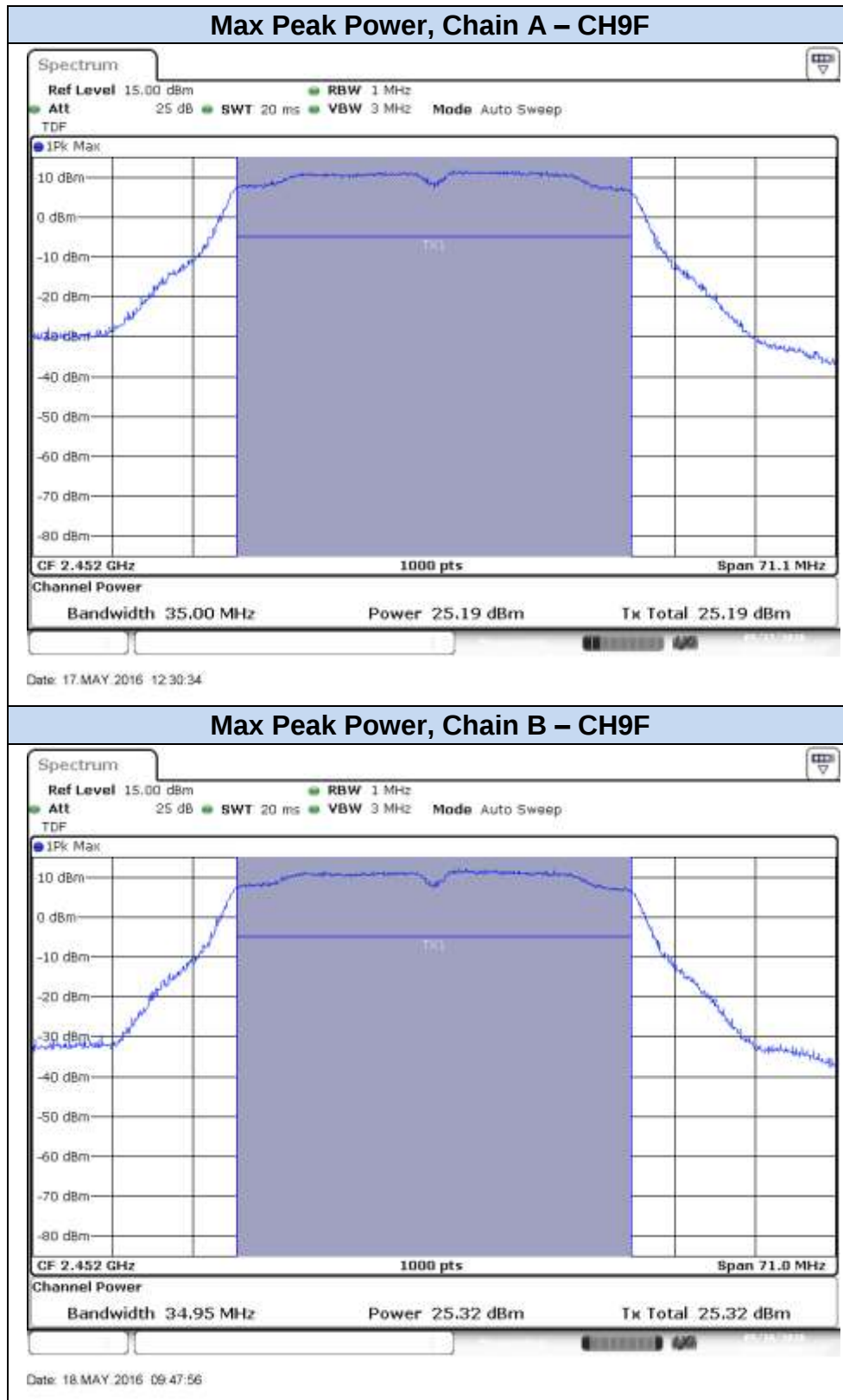
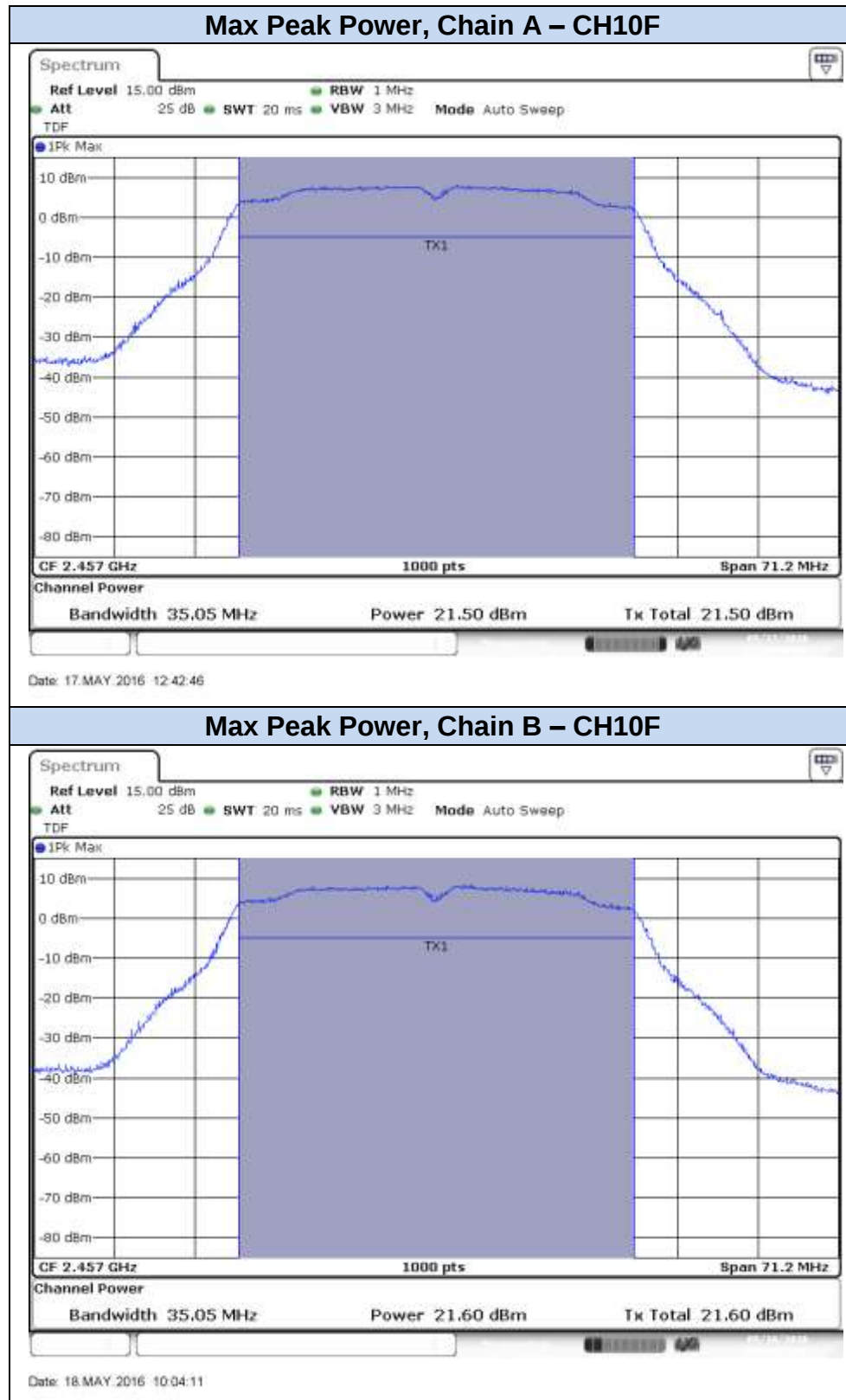
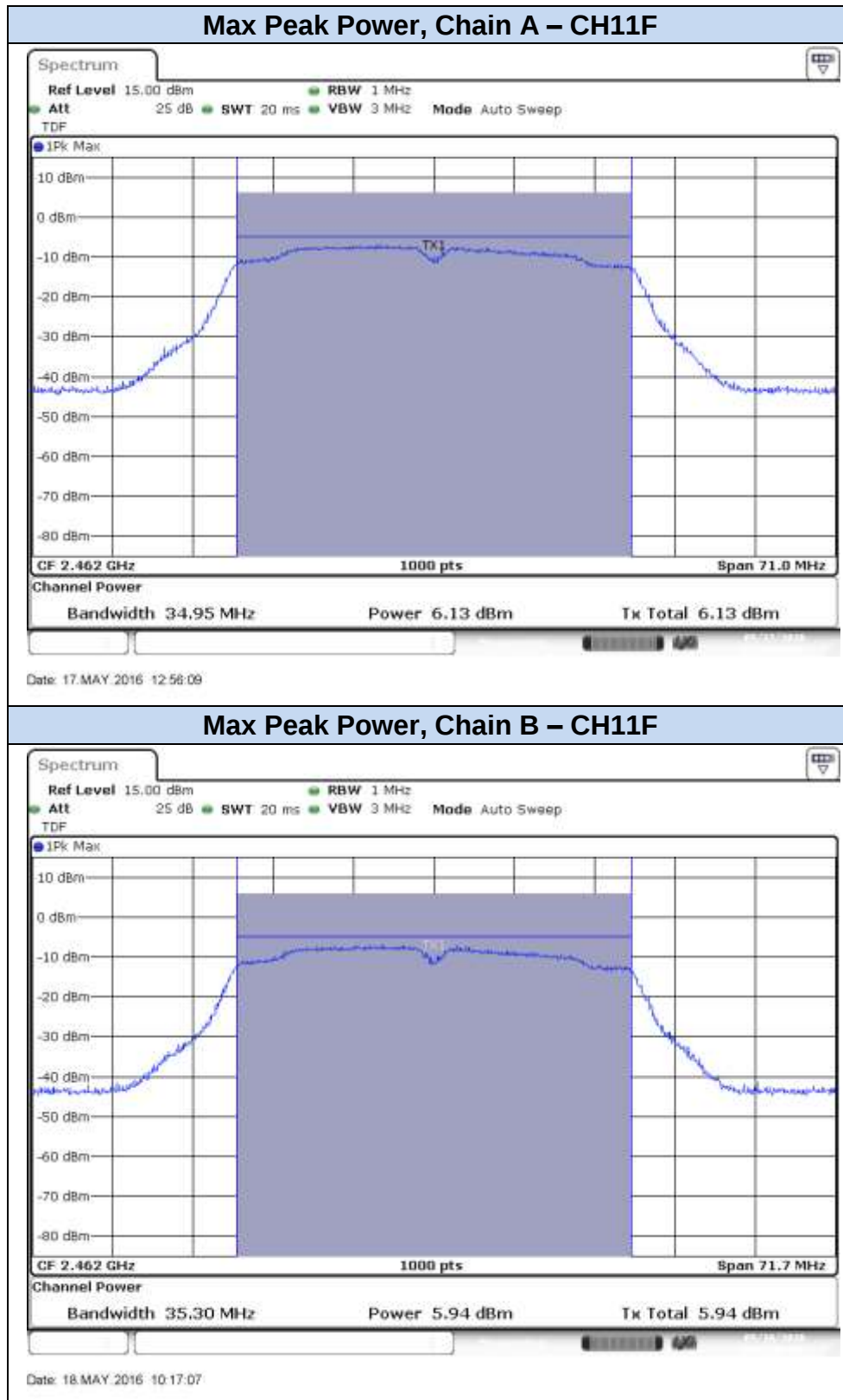




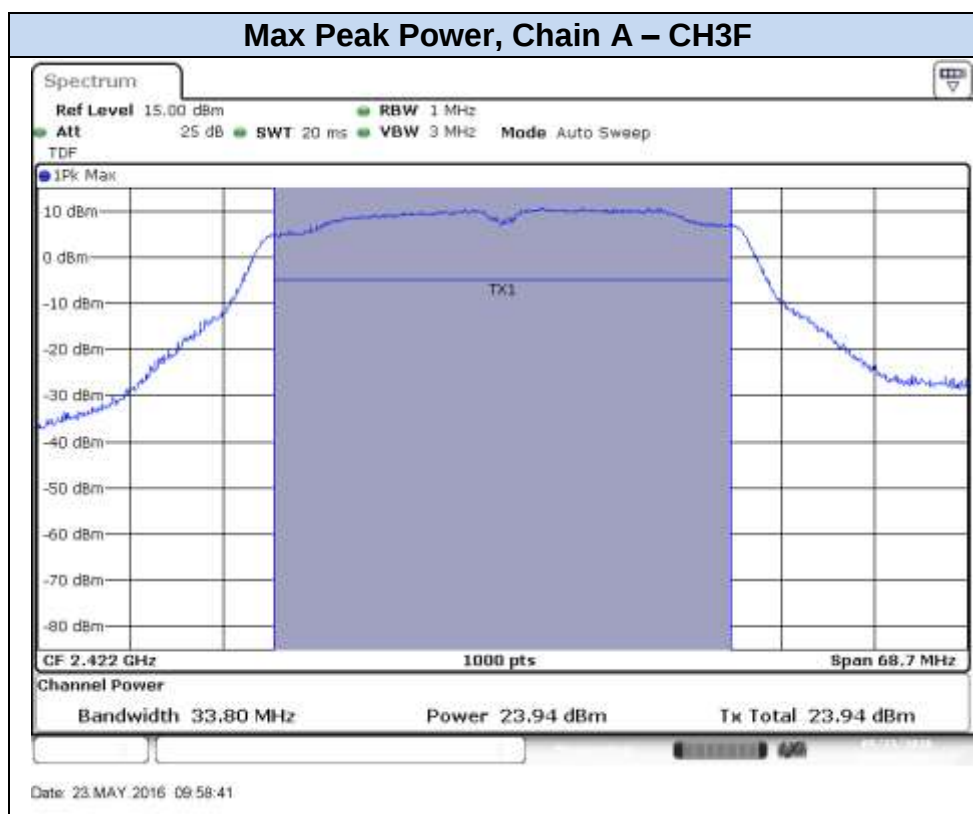




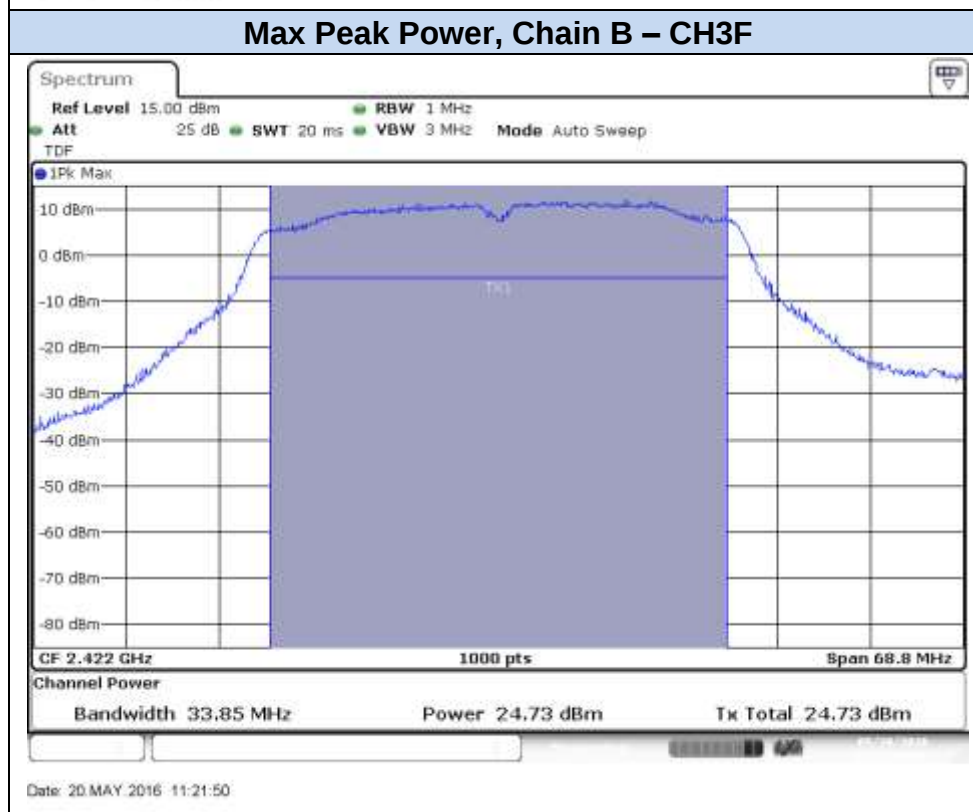


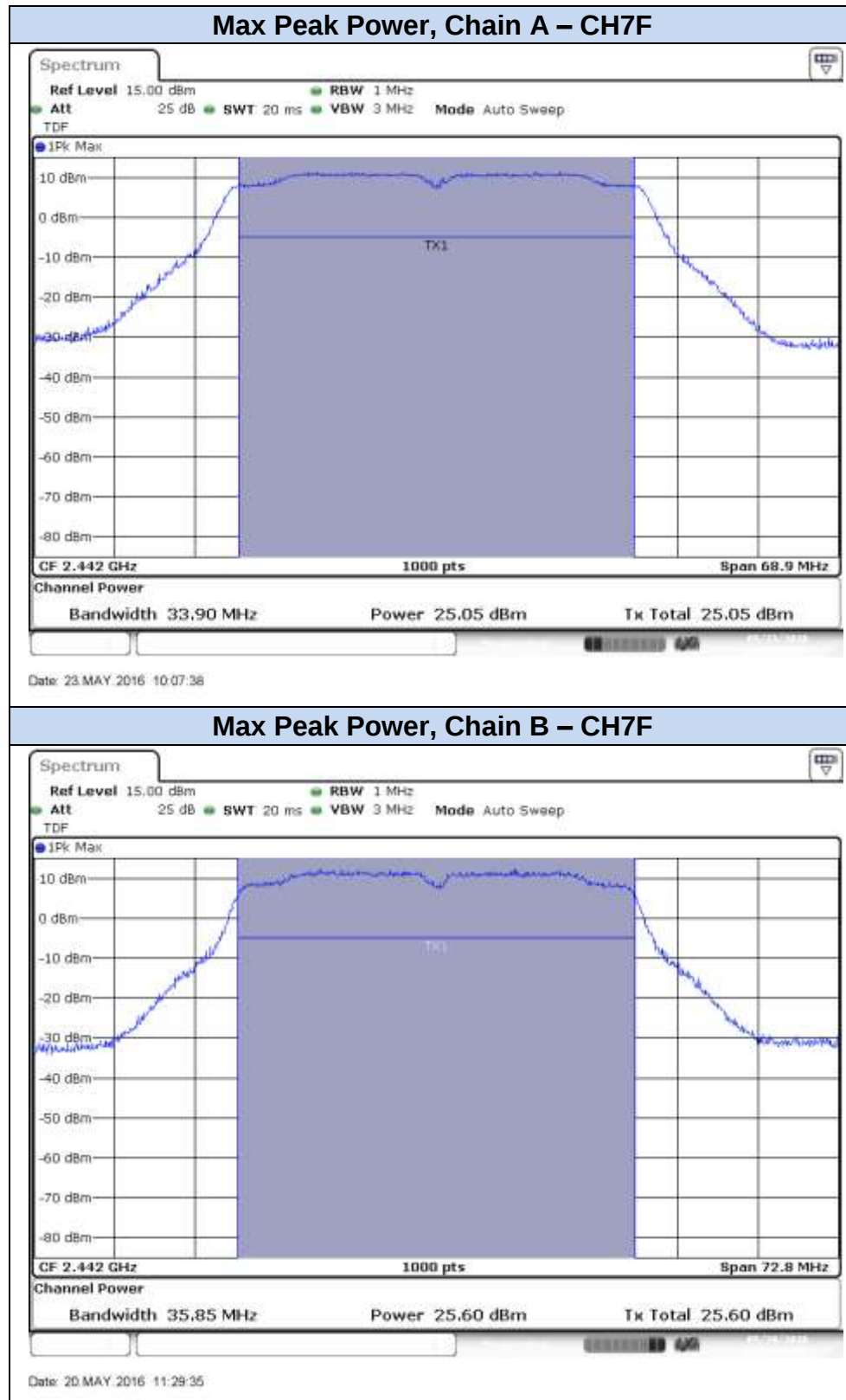
802.11n40 (MIMO), HT8

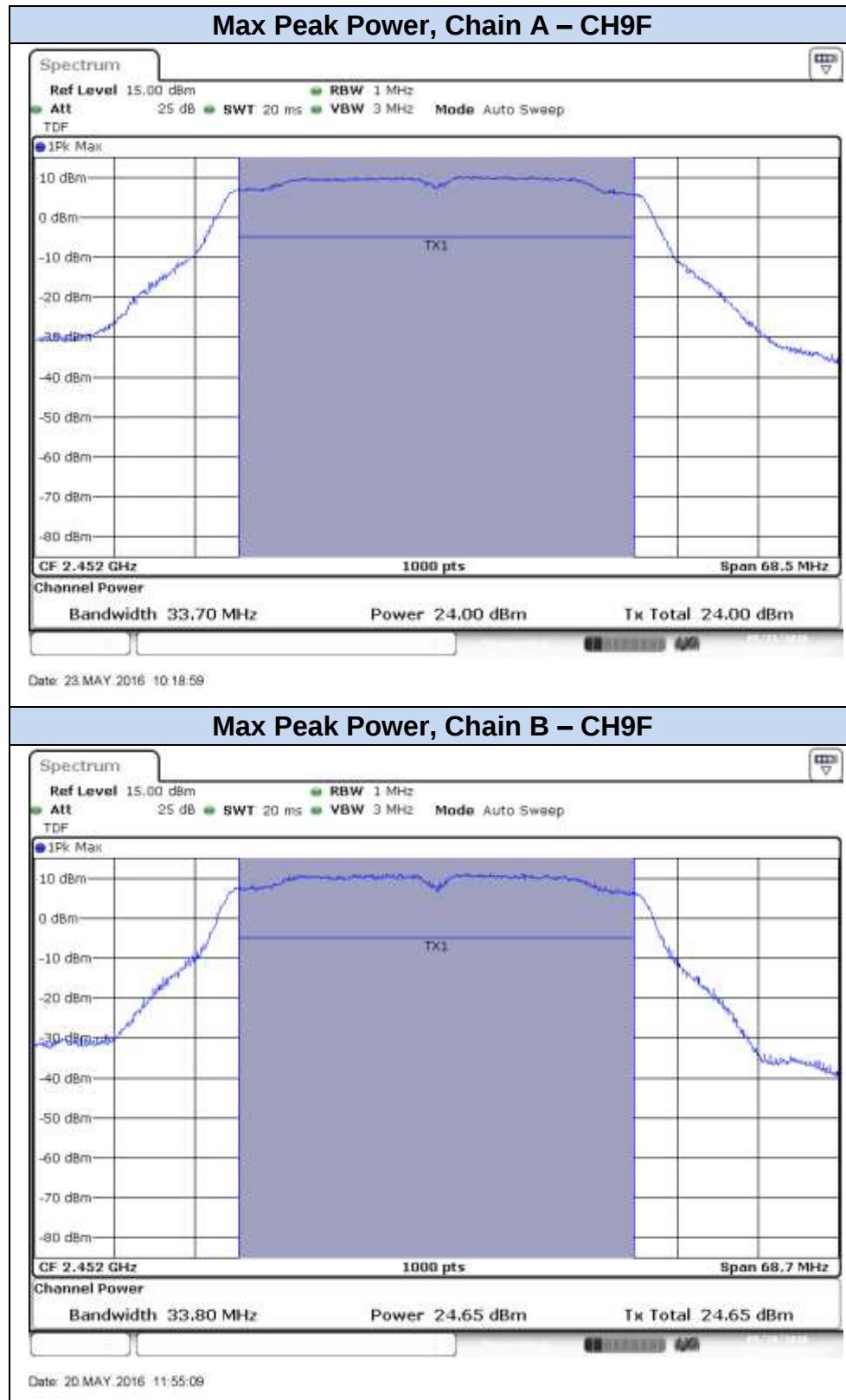
Max Peak Power, Chain A – CH3F

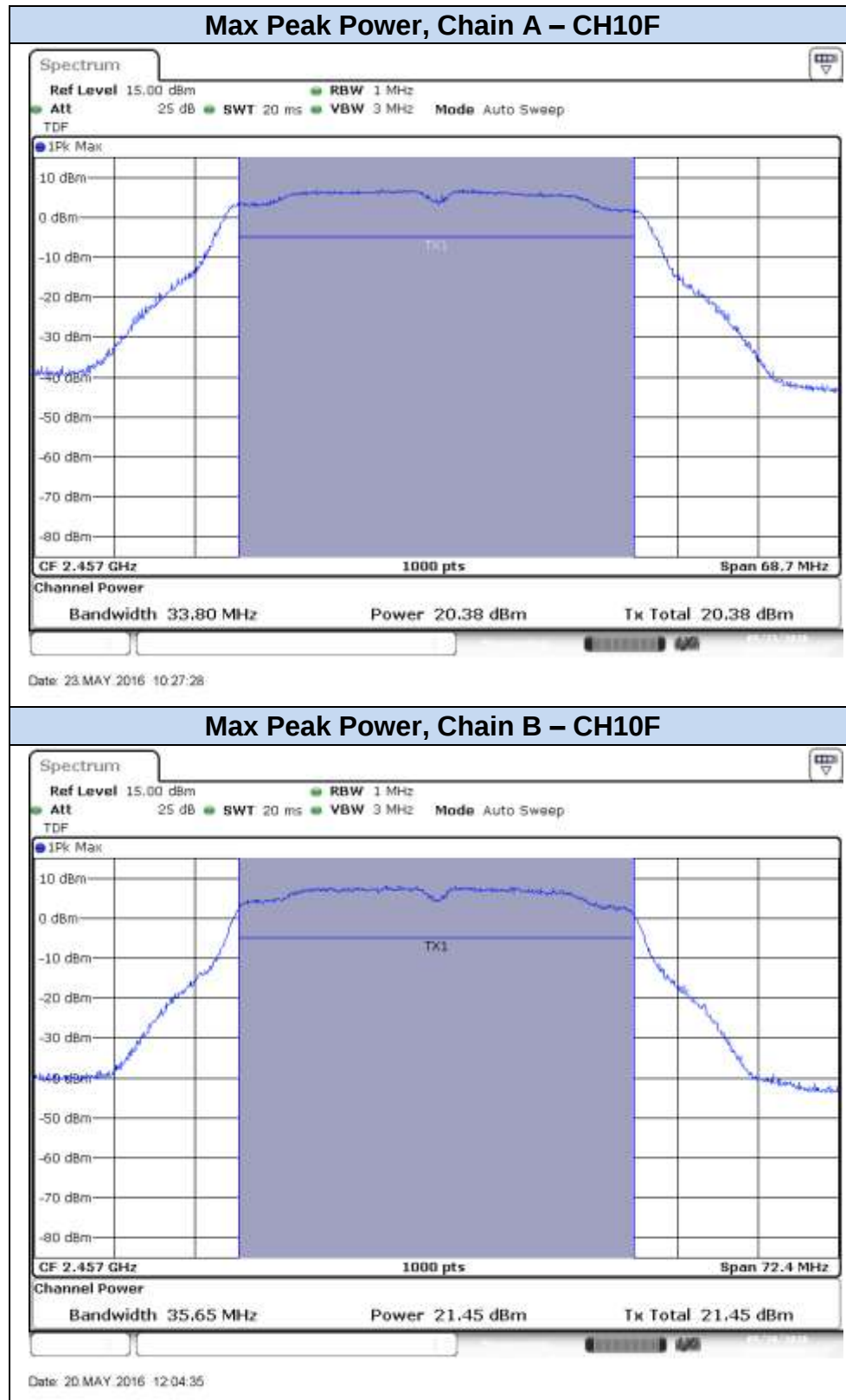


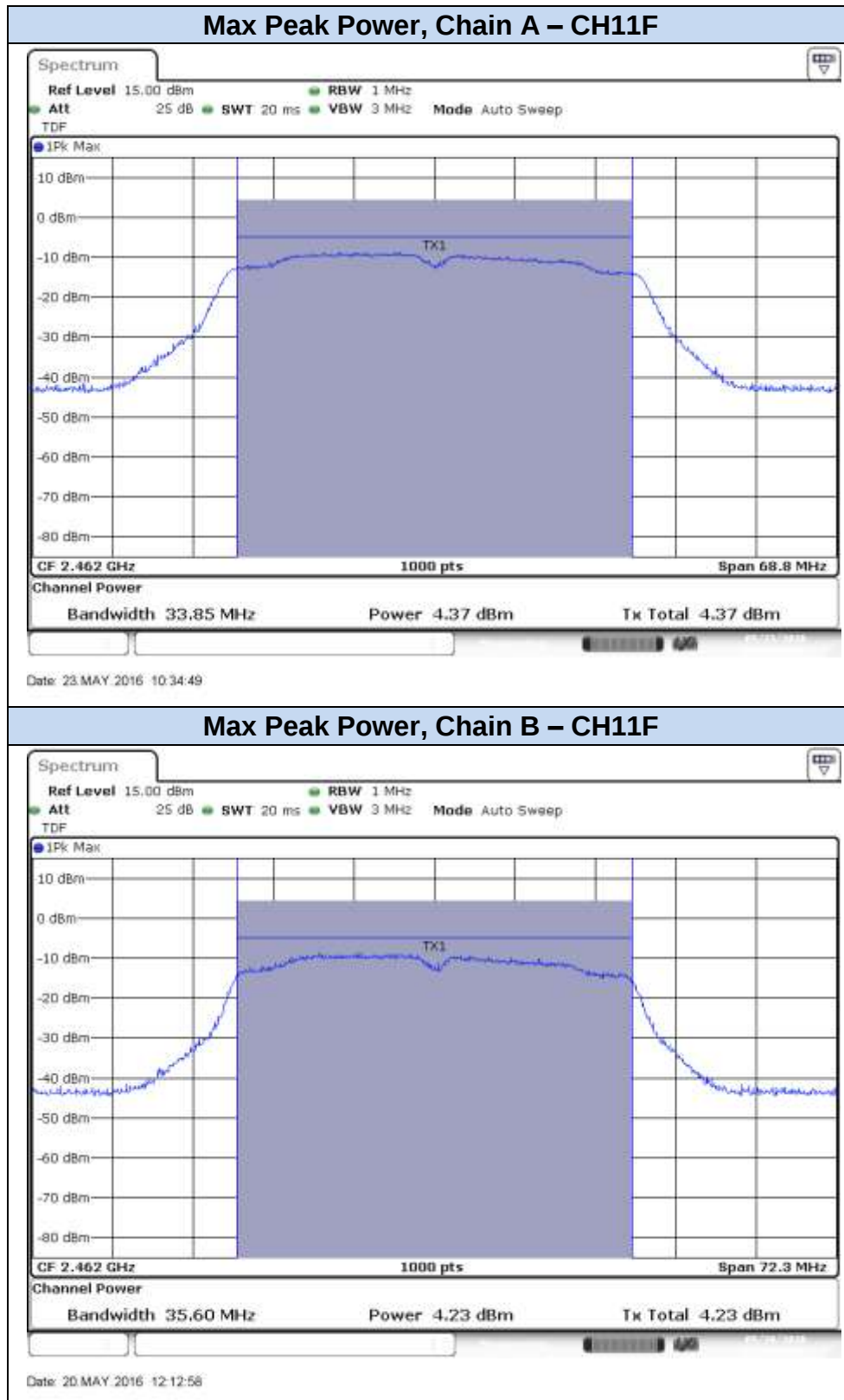
Max Peak Power, Chain B – CH3F











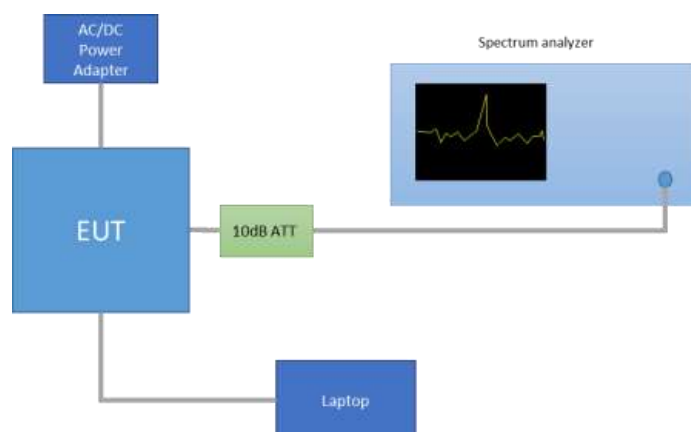
B.3 Out-of-band emissions (conducted)

Test limits:

FCC part	RSS part	Limits																																
15.247 (d)	RSS-247 Clause 5.5	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.																																
15.209	RSS-247 Clause 6.2.2 (2)	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a): <table><tr><th>Freq Range (MHz)</th><th>Field Strength (μV/m)</th><th>Field Strength (dBμV/m)</th><th>Meas. Distance (m)</th></tr><tr><td>0.009-0.490</td><td>2400/f(kHz)</td><td>-</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/f(kHz)</td><td>-</td><td>300</td></tr><tr><td>1.705-30.0</td><td>30</td><td>-</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>40</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>43.5</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>46</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>54</td><td>3</td></tr></table> The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.	Freq Range (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Meas. Distance (m)	0.009-0.490	2400/f(kHz)	-	300	0.490-1.705	24000/f(kHz)	-	300	1.705-30.0	30	-	30	30-88	100	40	3	88-216	150	43.5	3	216-960	200	46	3	Above 960	500	54	3
Freq Range (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Meas. Distance (m)																															
0.009-0.490	2400/f(kHz)	-	300																															
0.490-1.705	24000/f(kHz)	-	300																															
1.705-30.0	30	-	30																															
30-88	100	40	3																															
88-216	150	43.5	3																															
216-960	200	46	3																															
Above 960	500	54	3																															

Test procedure:

The setup below was used to measure the out-of-band emissions. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



The Band Edge High, was measured using the method according to point 13.3 (Integration Method) of KDB 558074 D01 DTS Meas Guidance v03r05.

In case of Band Edge measurements falling in restricted bands, the declared Antenna Gain is also compensated in the graph. The declared maximum antenna gain is 3.24dBi.

For Band Edge measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBµV/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values	
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)
Above 960	3	500	54.0	-41.2

Note: these PSD_{Peak} values are shown just as a reference for the compliance of the Out-of-band Measurements. Thus the RBW used for these measurements was 100kHz.

Mode	Rate	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
802.11b	1Mbps	1	2412	SISO CHAIN A	11.33
				SISO CHAIN B	11.41
		7	2442	SISO CHAIN A	10.87
				SISO CHAIN B	10.63
		11	2462	SISO CHAIN A	10.94
				SISO CHAIN B	9.11
		12	2467	SISO CHAIN A	7.22
				SISO CHAIN B	6.96
		13	2472	SISO CHAIN A	-0.84
				SISO CHAIN B	-0.92
802.11g	6Mbps	1	2412	SISO CHAIN A	8.18
				SISO CHAIN B	8.56
		7	2442	SISO CHAIN A	9.92
				SISO CHAIN B	10.21
		11	2462	SISO CHAIN A	6.94
				SISO CHAIN B	6.34
		12	2467	SISO CHAIN A	1.22
				SISO CHAIN B	0.26
		13	2472	SISO CHAIN A	-14.77
				SISO CHAIN B	-13.09

Mode	Rate	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
802.11n20	HT0	1	2412	SISO CHAIN A	7.92
				SISO CHAIN B	7.87
		7	2442	SISO CHAIN A	10.24
				SISO CHAIN B	9.96
		11	2462	SISO CHAIN A	7.11
				SISO CHAIN B	6.34
		12	2467	SISO CHAIN A	0.88
				SISO CHAIN B	0.52
		13	2472	SISO CHAIN A	-13.60
				SISO CHAIN B	-13.34
	HT8	1	2412	MIMO CHAIN A	6.93
				MIMO CHAIN B	7.47
		7	2442	MIMO CHAIN A	8.38
				MIMO CHAIN B	8.18
		11	2462	MIMO CHAIN A	6.21
				MIMO CHAIN B	5.58
		12	2467	MIMO CHAIN A	0.58
				MIMO CHAIN B	0.11
		13	2472	MIMO CHAIN A	-16.70
				MIMO CHAIN B	-16.17
802.11n40	HT0	3F	2422	SISO CHAIN A	5.49
				SISO CHAIN B	4.06
		7F	2442	SISO CHAIN A	6.86
				SISO CHAIN B	3.60
		9F	2452	SISO CHAIN A	3.76
				SISO CHAIN B	3.74
		10F	2457	SISO CHAIN A	-0.46
				SISO CHAIN B	0.02
		11F	2462	SISO CHAIN A	-15.63
				SISO CHAIN B	-15.80
	HT8	3F	2422	MIMO CHAIN A	1.77
				MIMO CHAIN B	2.18
		7F	2442	MIMO CHAIN A	3.20
				MIMO CHAIN B	3.15
		9F	2452	MIMO CHAIN A	2.30
				MIMO CHAIN B	2.72
		10F	2457	MIMO CHAIN A	-1.16
				MIMO CHAIN B	-1.32
		11F	2462	MIMO CHAIN A	-17.08
				MIMO CHAIN B	-17.99

Band Edge results Screenshot:

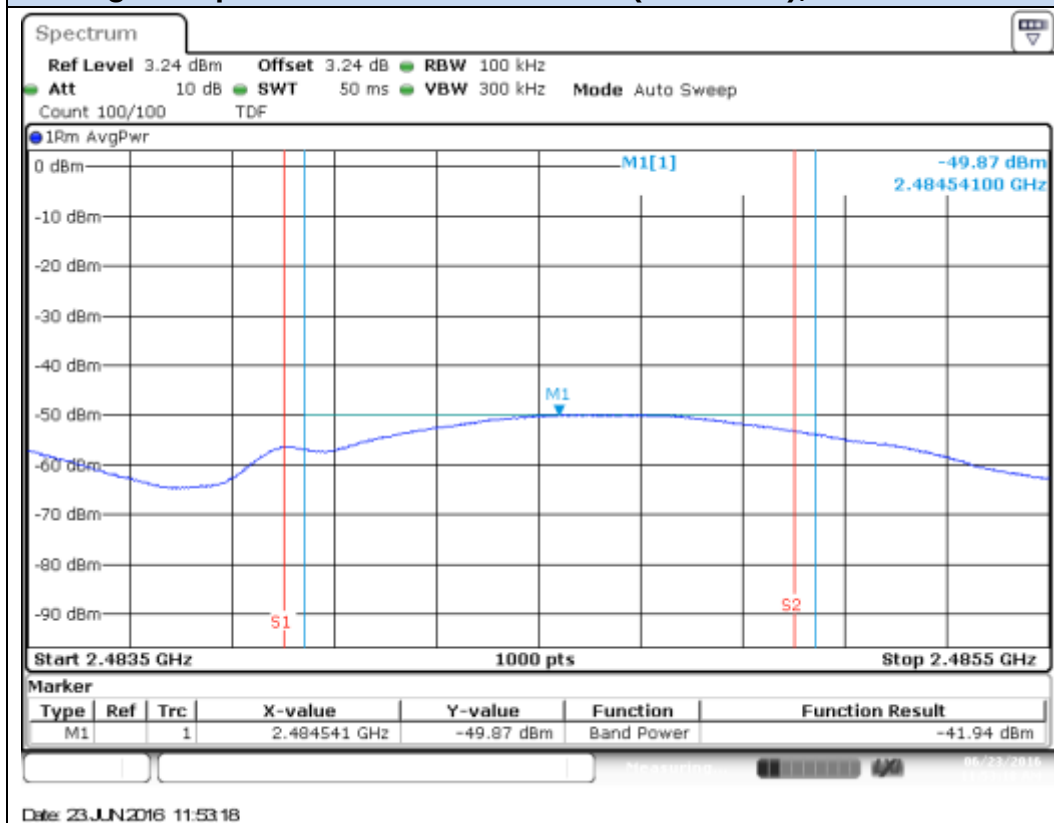
802.11b, 1Mbps



BE High Freq Section (restricted), Chain A – CH11



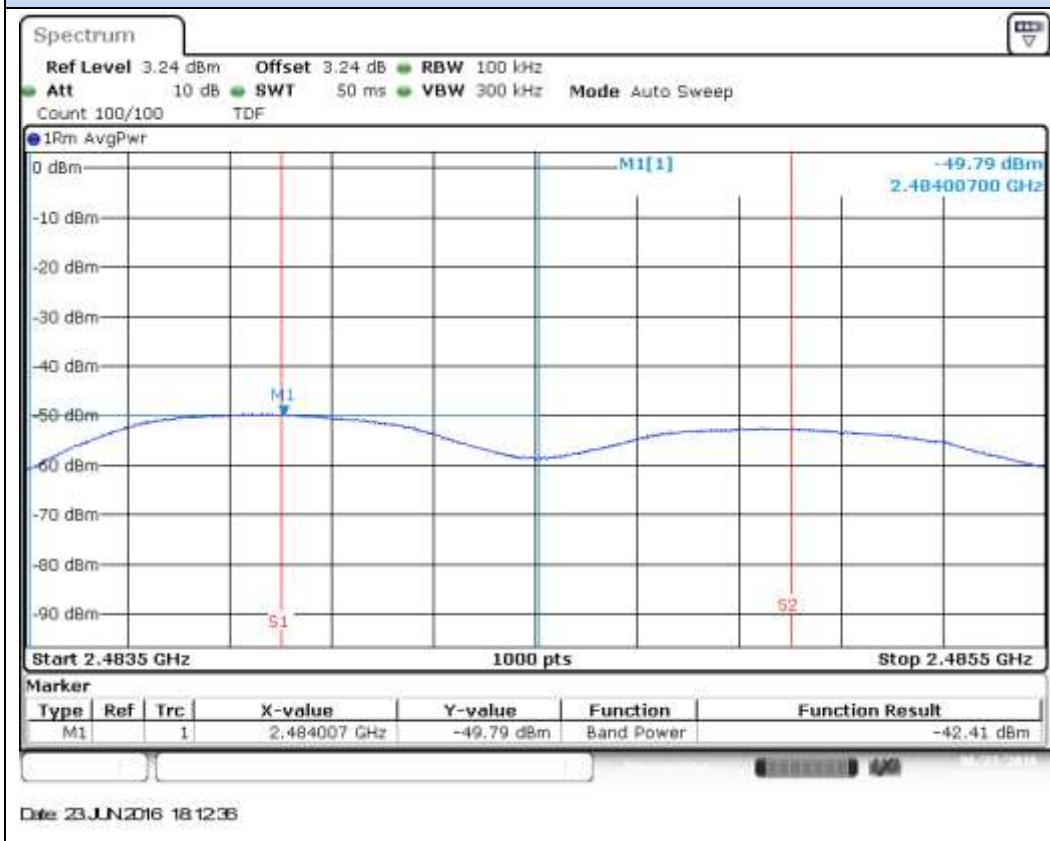
BE High Freq Section RMS within 2MHz (restricted), Chain A – CH11



BE High Freq Section (restricted), Chain A – CH12



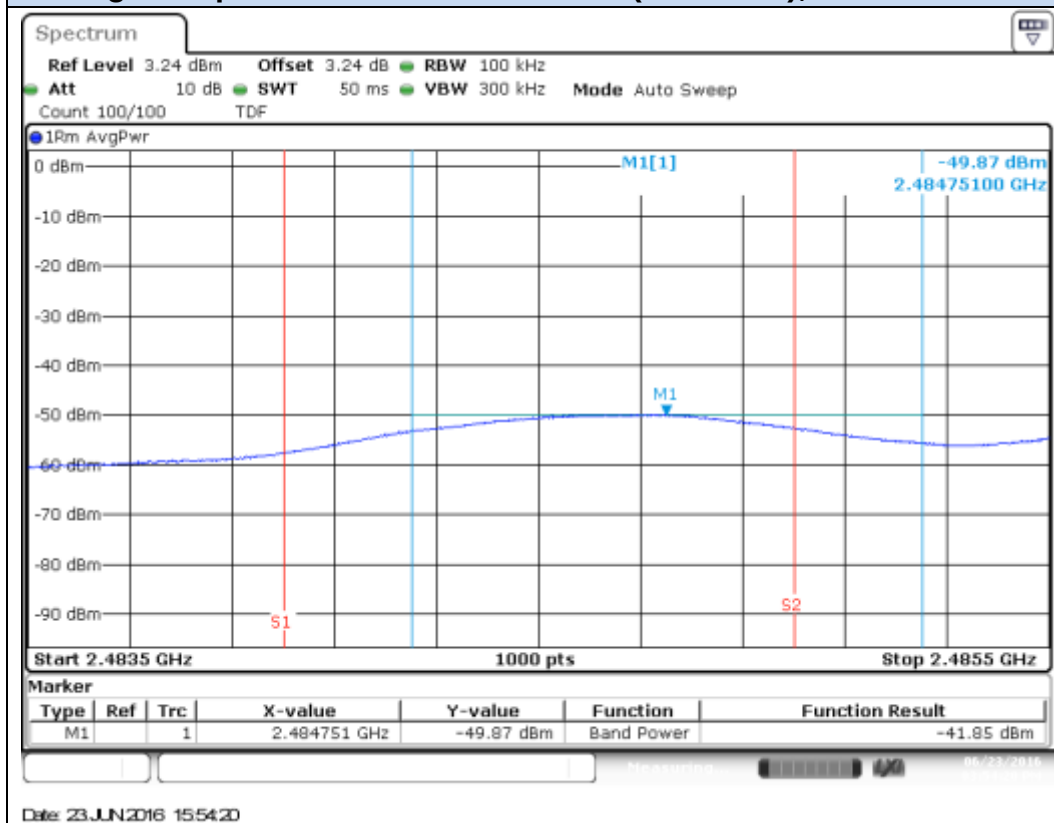
BE High Freq Section RMS within 2MHz(restricted), Chain A – CH12



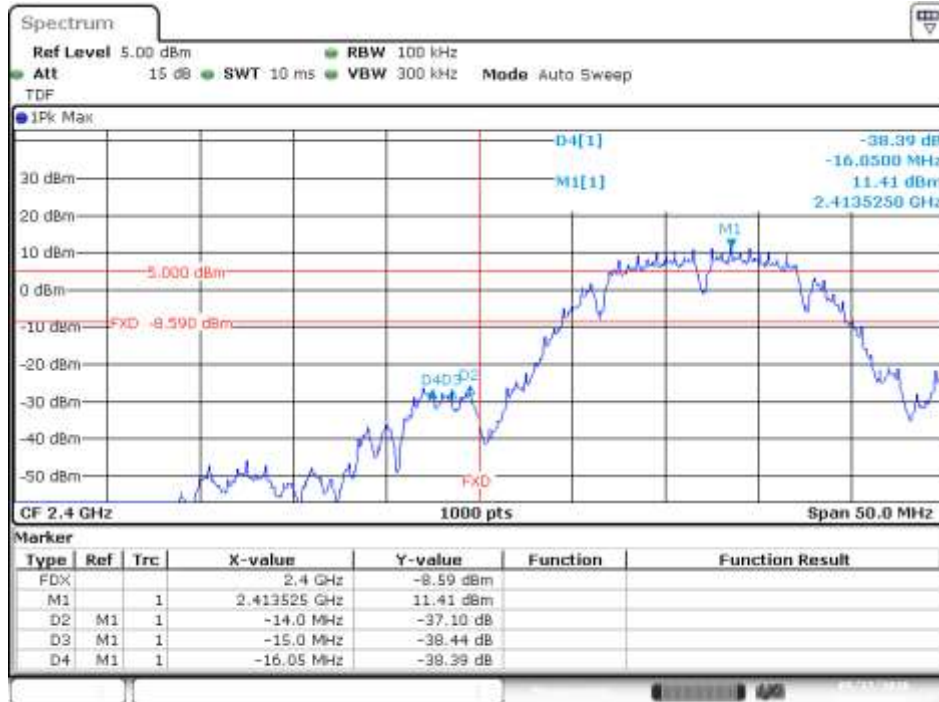
BE High Freq Section (restricted), Chain A – CH13



BE High Freq Section RMS within 2MHz (restricted), Chain A – CH13

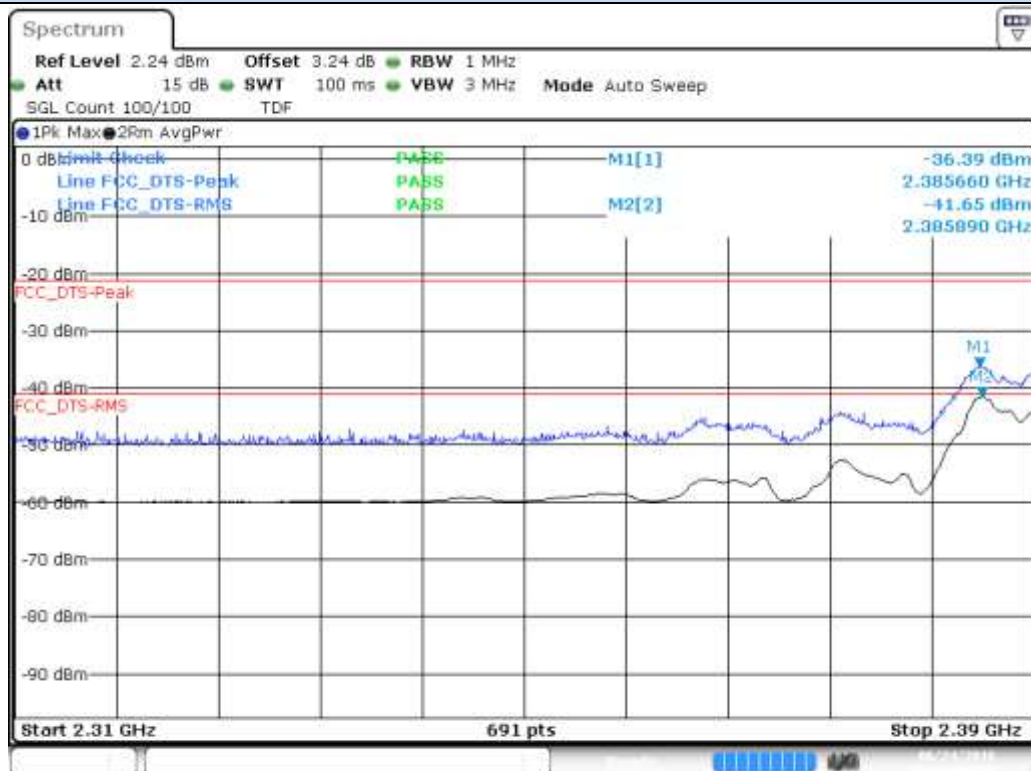


BE Low Freq Section, Chain B - CH1



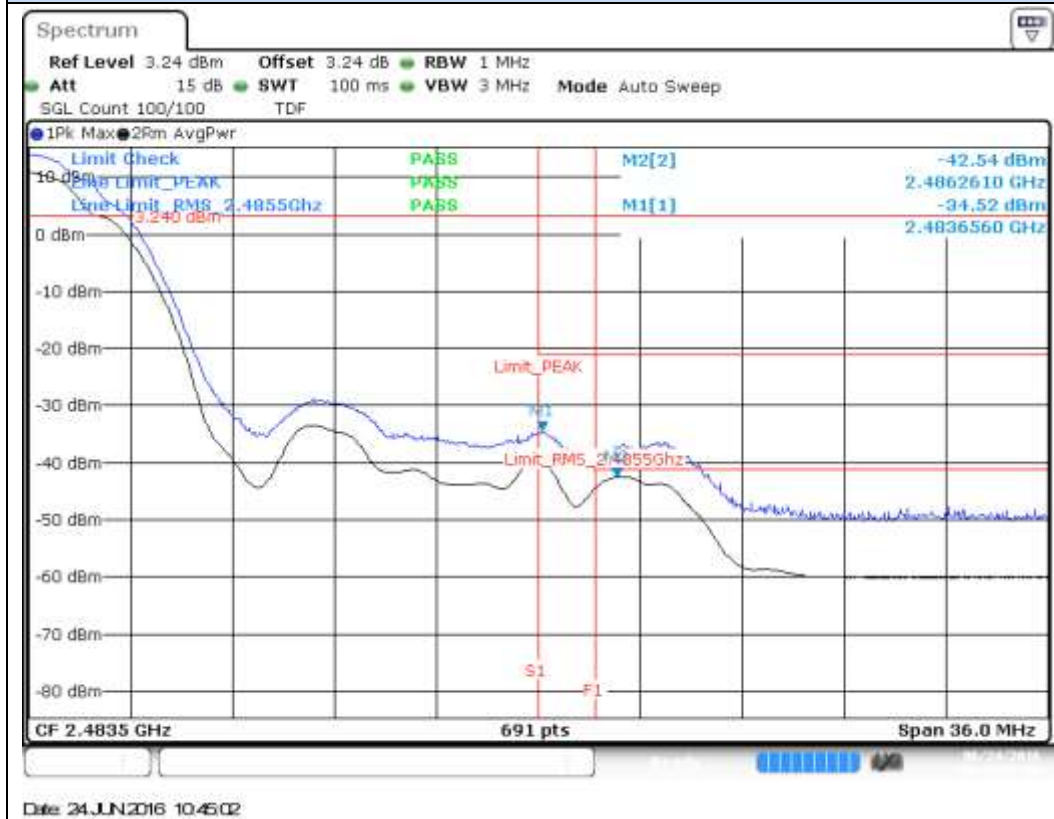
Date: 17.MAY.2016 14:28:36

BE Low Freq Section (restricted), Chain B - CH1

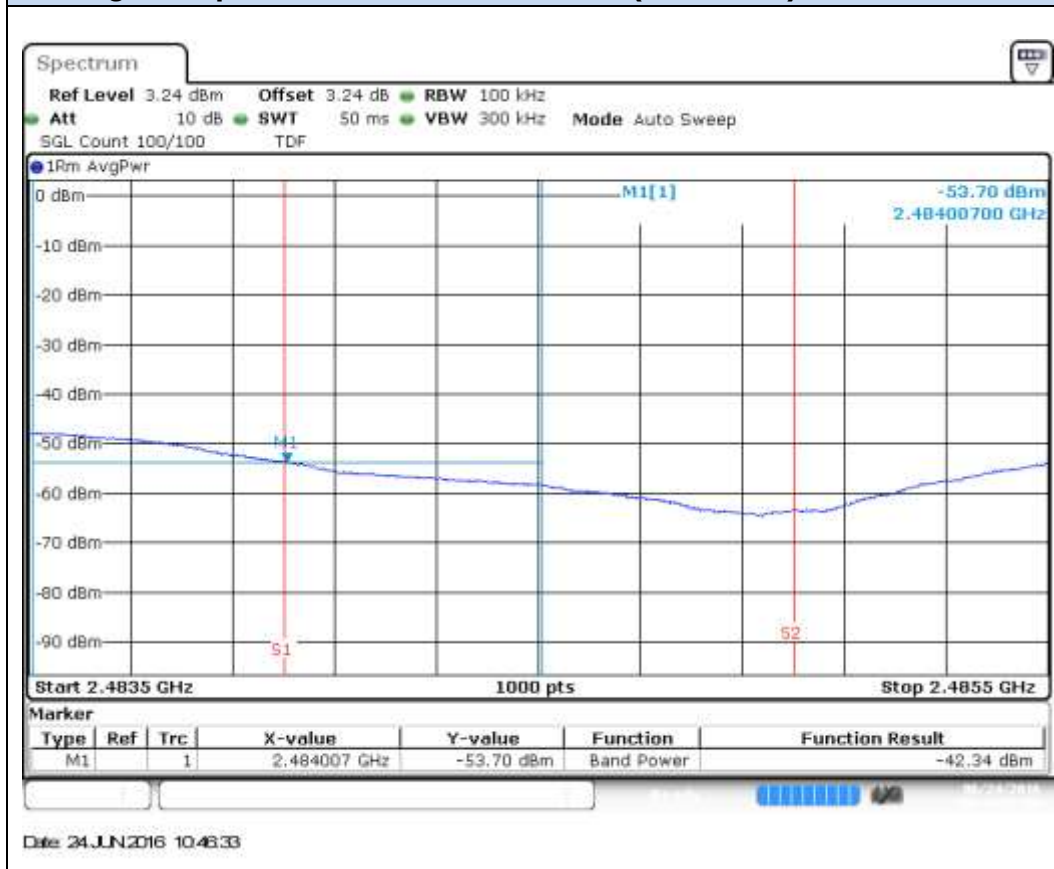


Date: 24.JUN.2016 18:40:09

BE High Freq Section (restricted), Chain B – CH11



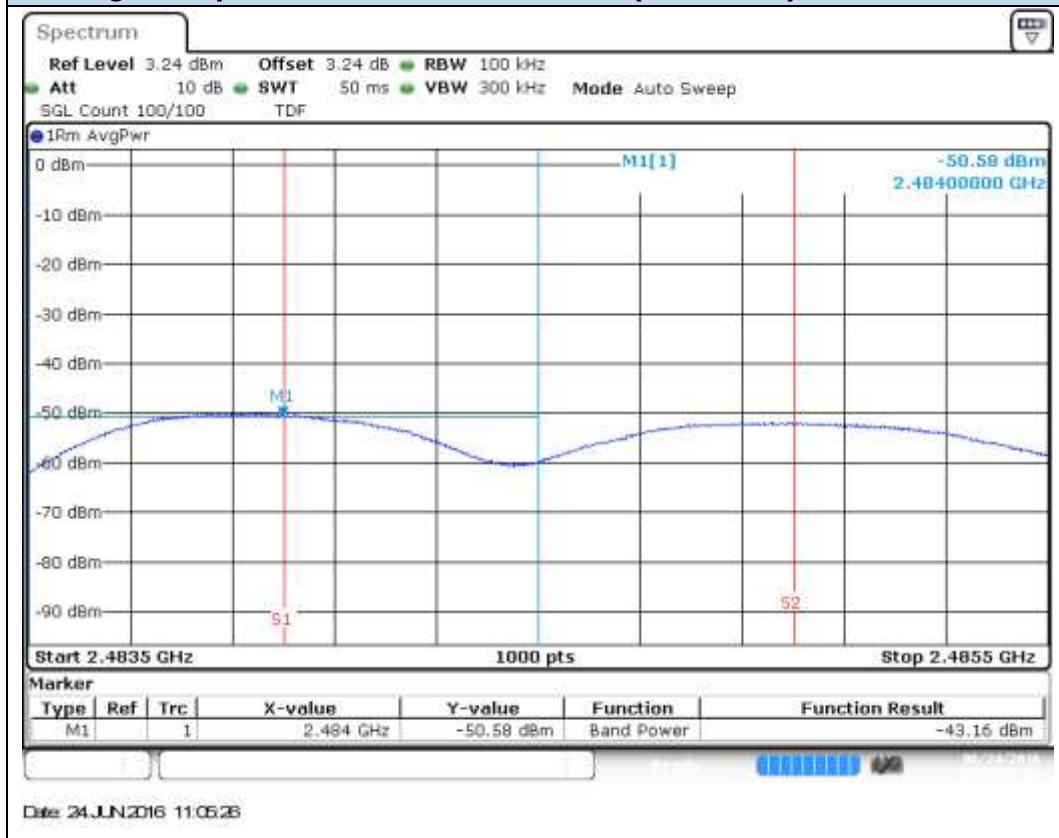
BE High Freq Section RMS within 2MHz (restricted), Chain B – CH11



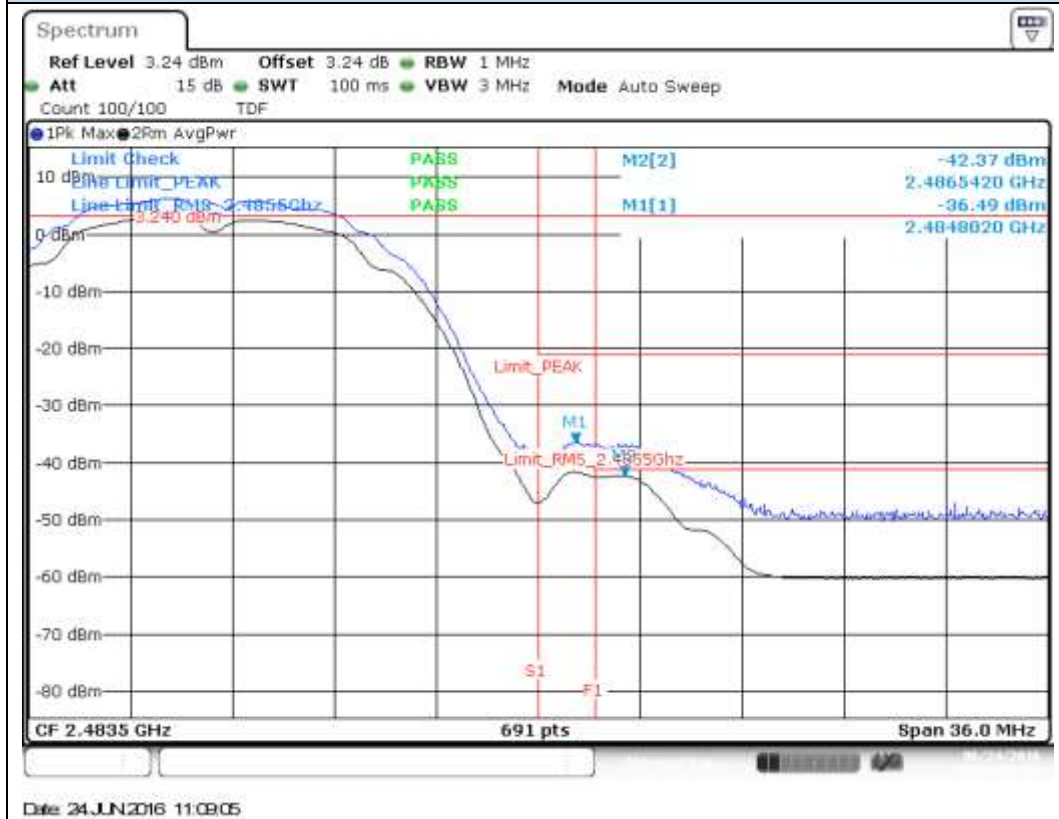
BE High Freq Section (restricted), Chain B – CH12



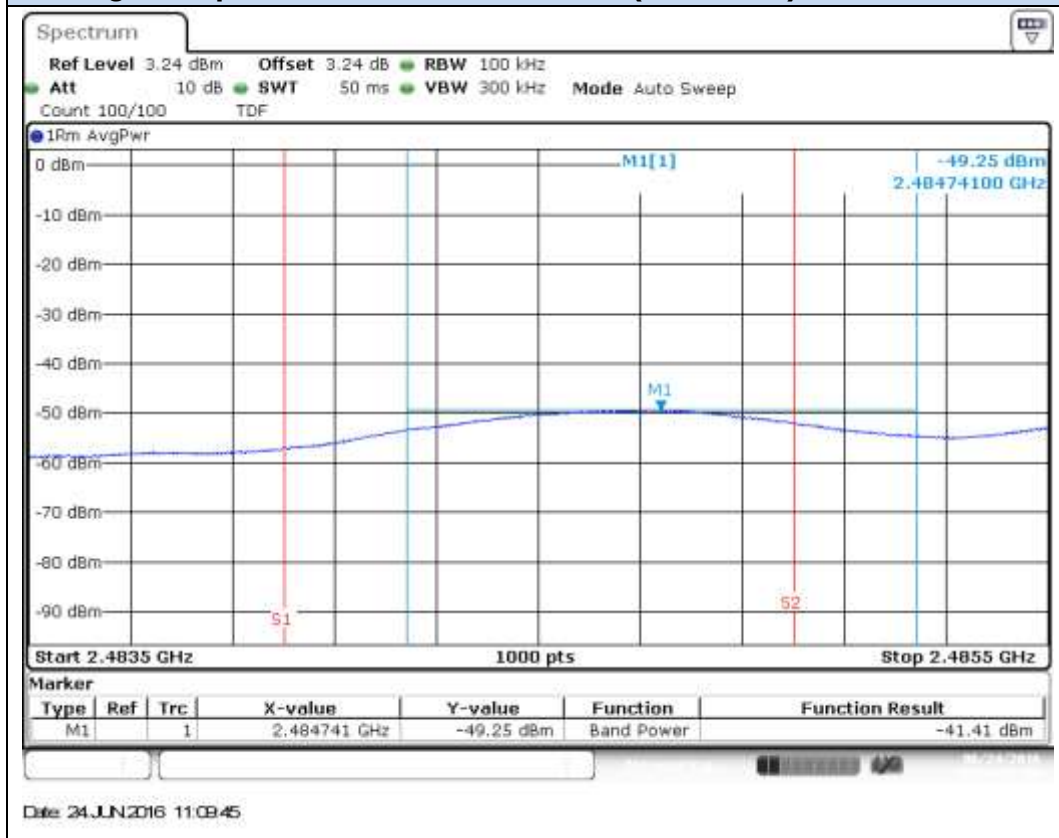
BE High Freq Section RMS within 2MHz(restricted), Chain B – CH12



BE High Freq Section (restricted), Chain B – CH13

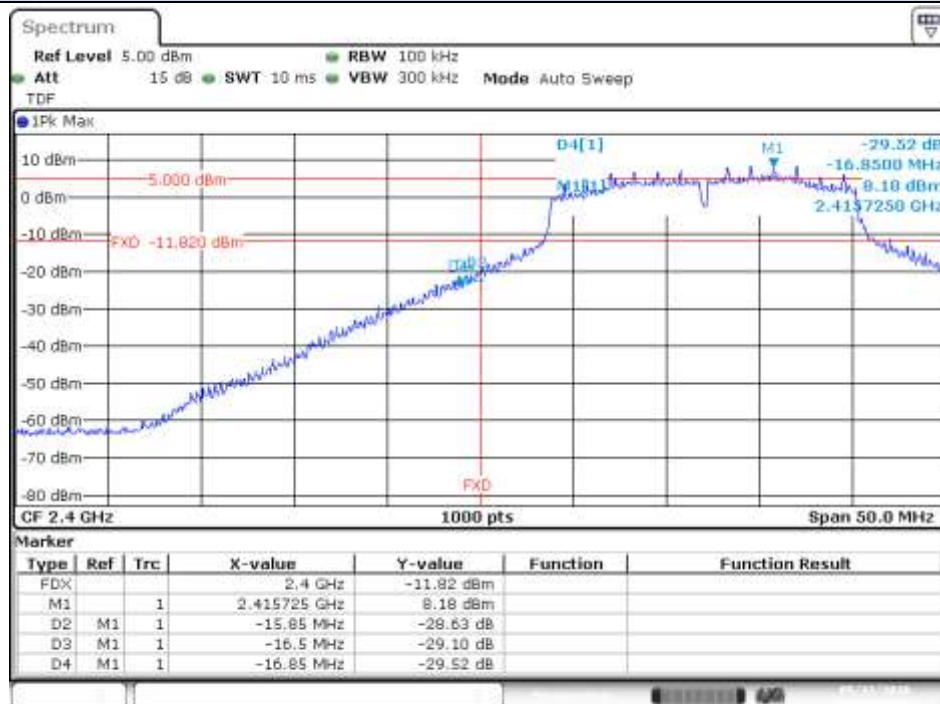


BE High Freq Section RMS within 2MHz (restricted), Chain B – CH13



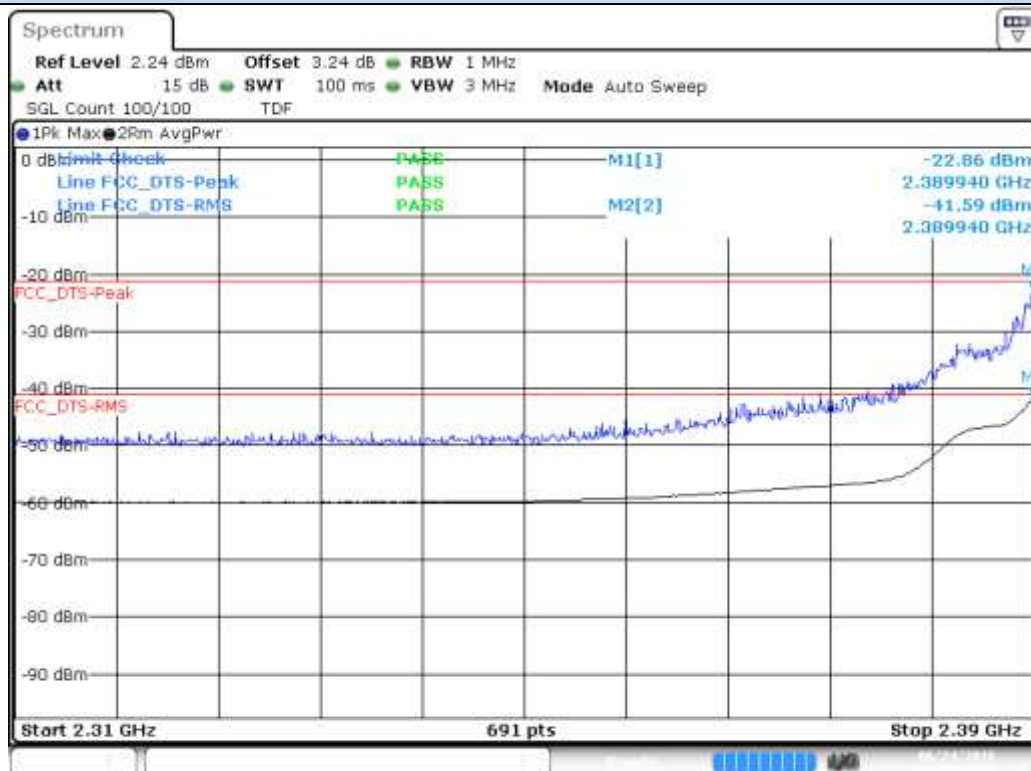
802.11g, 6Mbps

BE Low Freq Section, Chain A - CH1



Date: 12 MAY 2016 10:50:16

BE Low Freq Section (restricted), Chain A - CH1

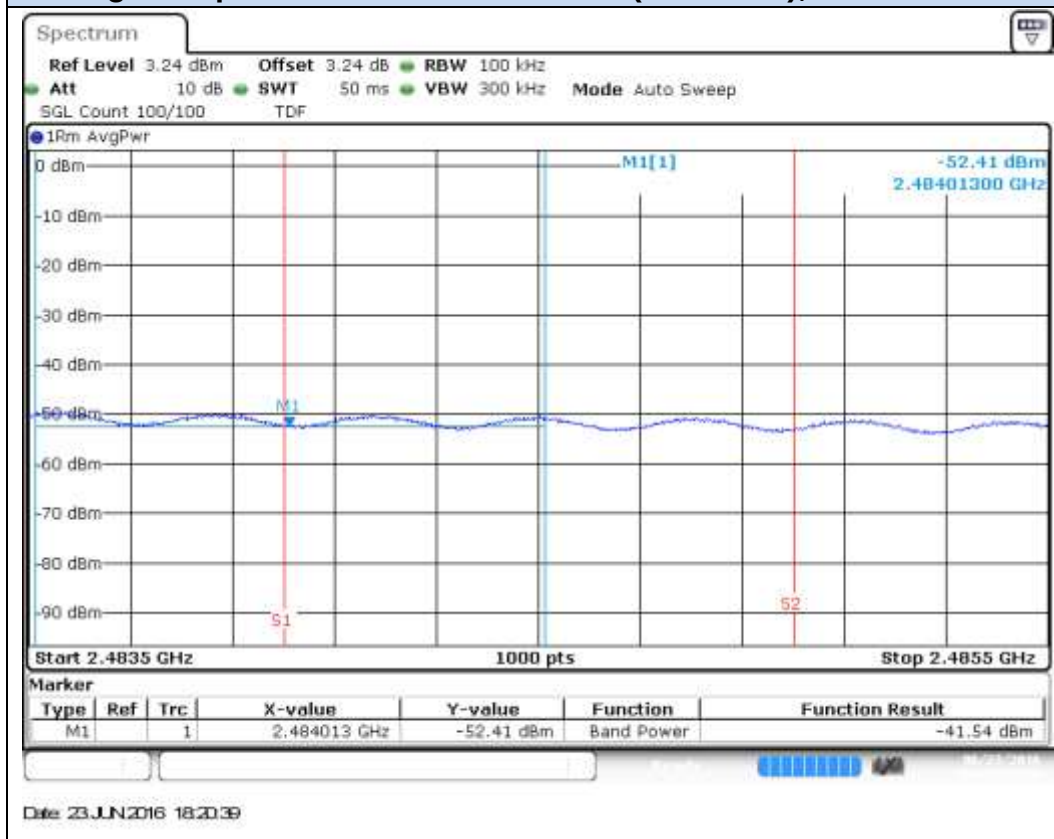


Date: 24 JUN 2016 18:01:46

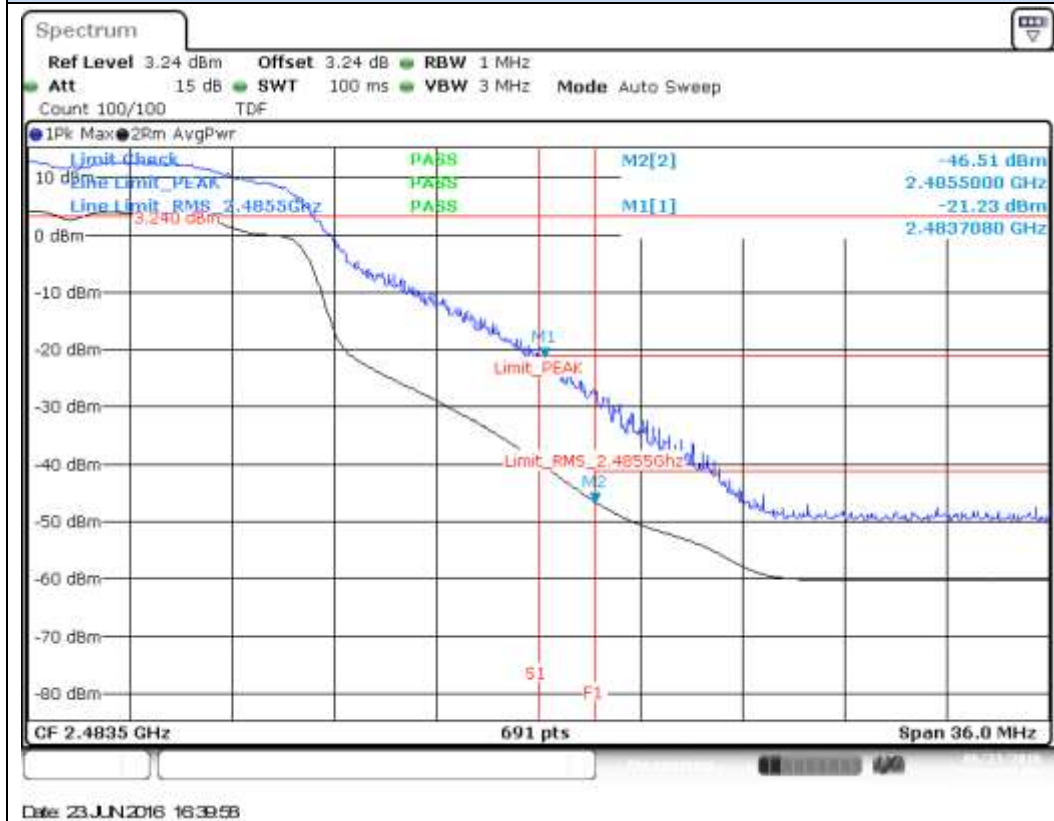
BE High Freq Section (restricted), Chain A – CH11



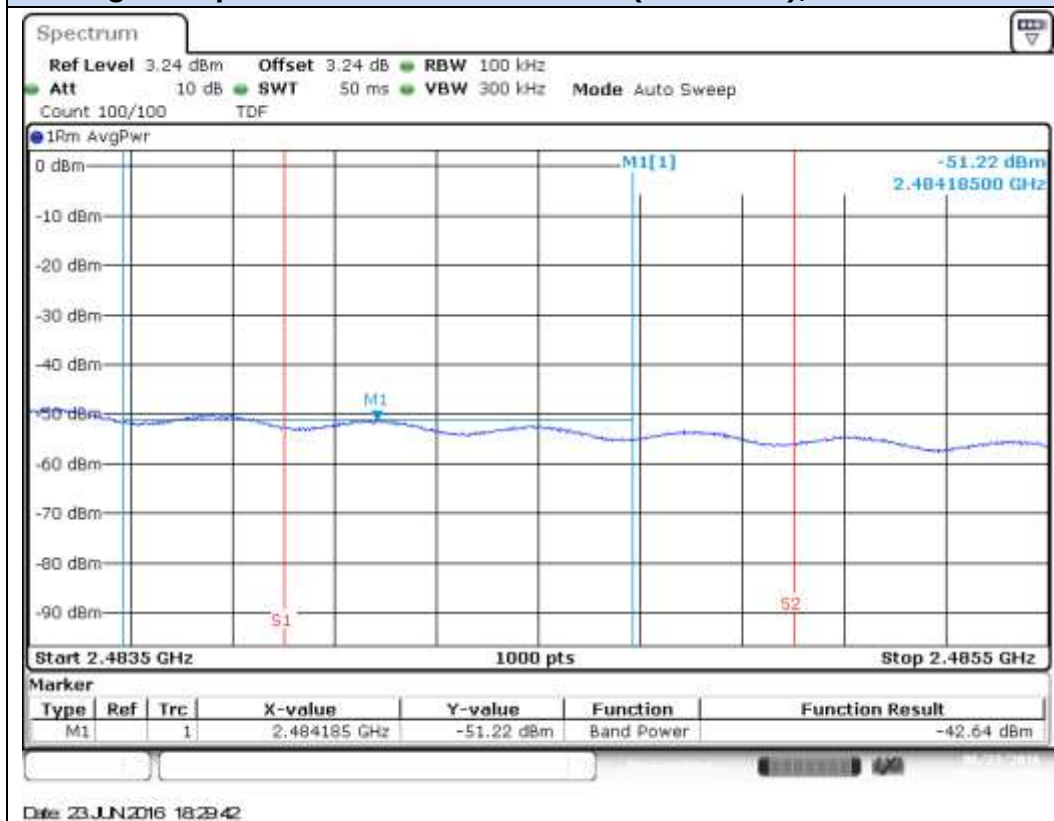
BE High Freq Section RMS within 2MHz (restricted), Chain A – CH11



BE High Freq Section (restricted), Chain A – CH12



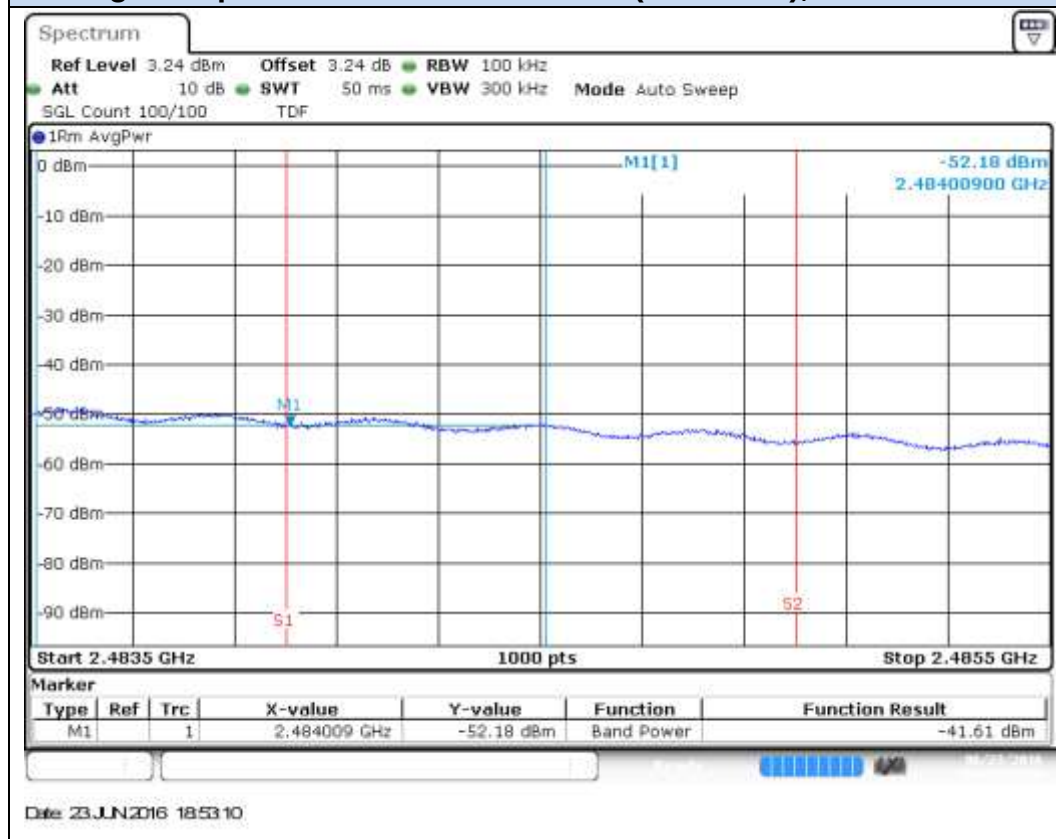
BE High Freq Section RMS within 2MHz(restricted), Chain A – CH12



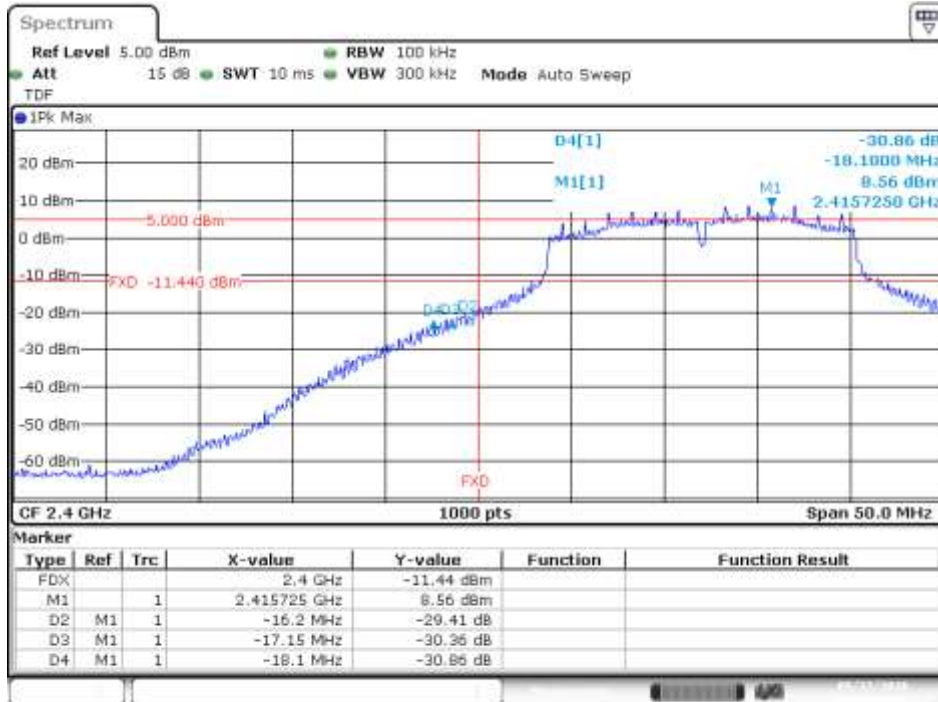
BE High Freq Section (restricted), Chain A – CH13



BE High Freq Section RMS within 2MHz (restricted), Chain A – CH13

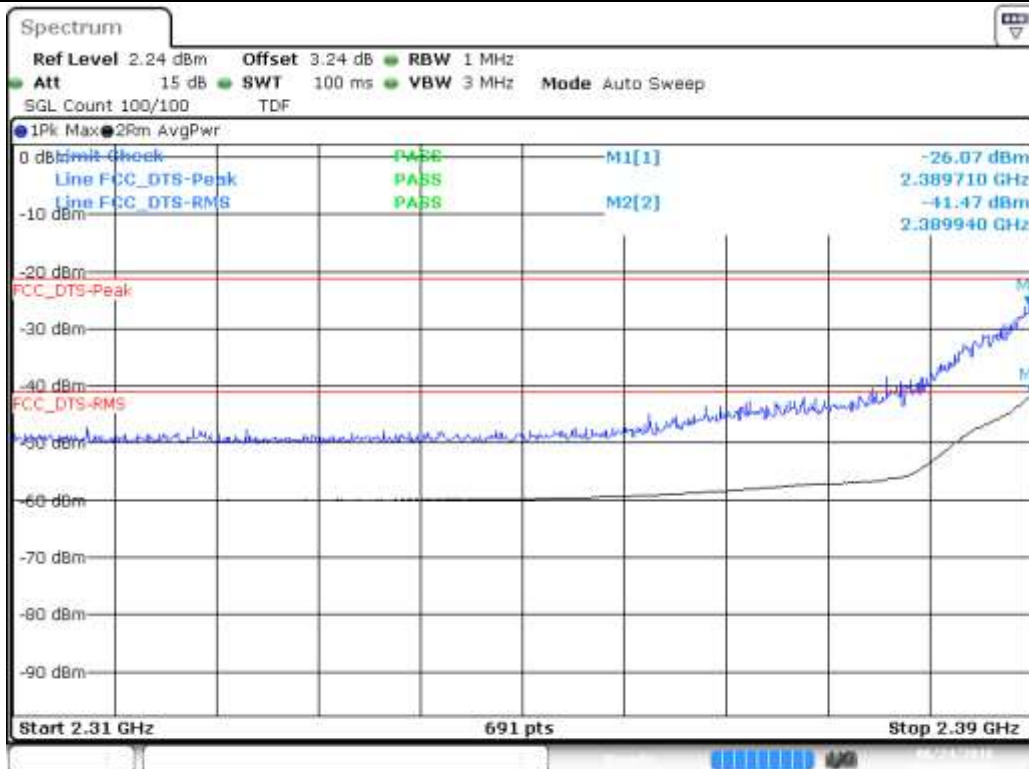


BE Low Freq Section, Chain B - CH1



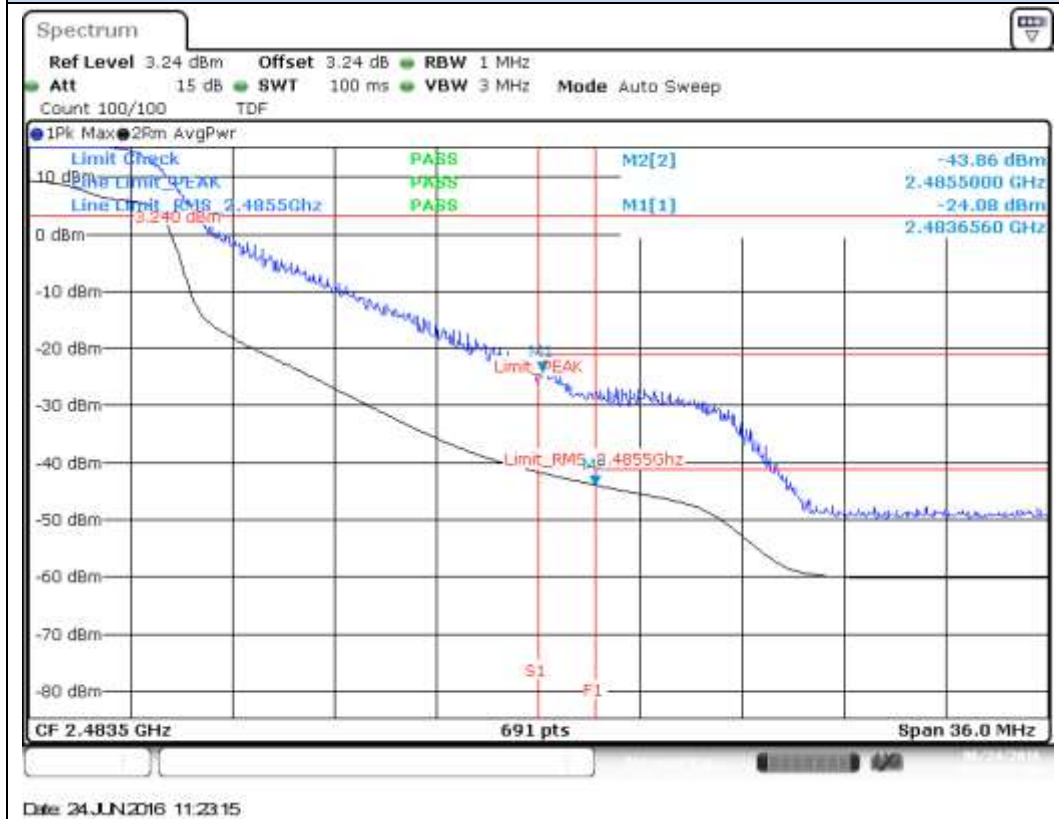
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BE Low Freq Section (restricted), Chain B - CH1

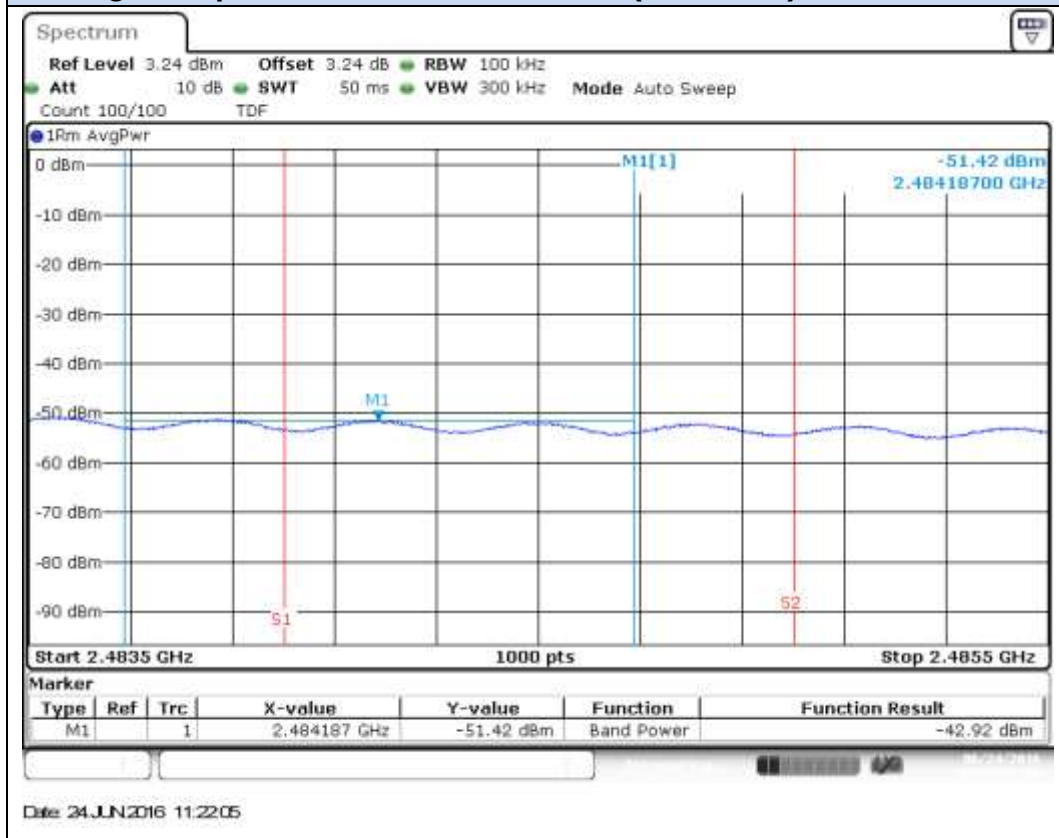


Date: 24.JUN.2016 18:42:51

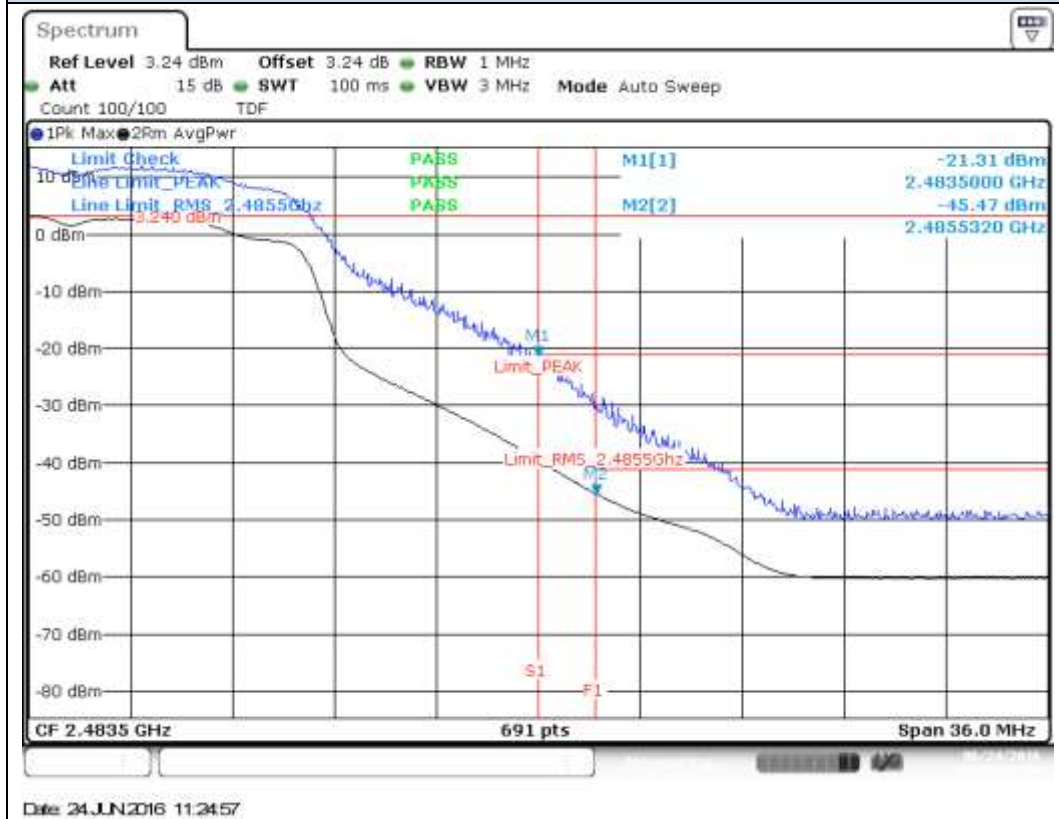
BE High Freq Section (restricted), Chain B – CH11



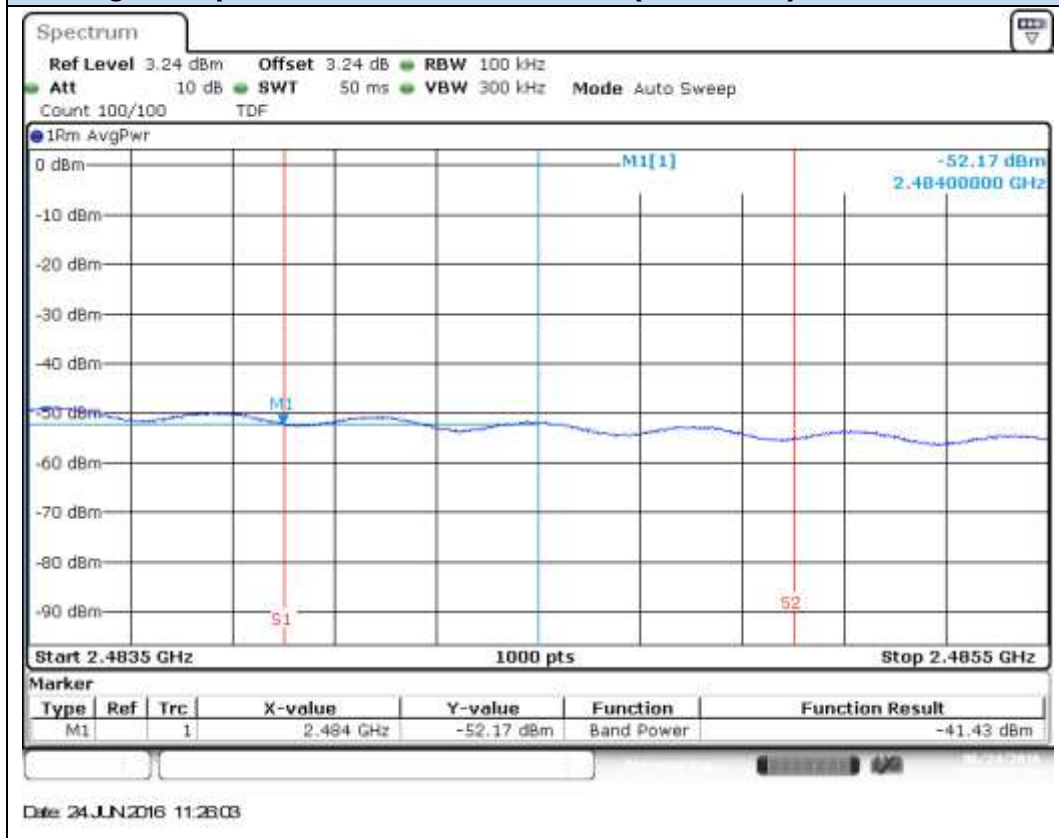
BE High Freq Section RMS within 2MHz (restricted), Chain B – CH11



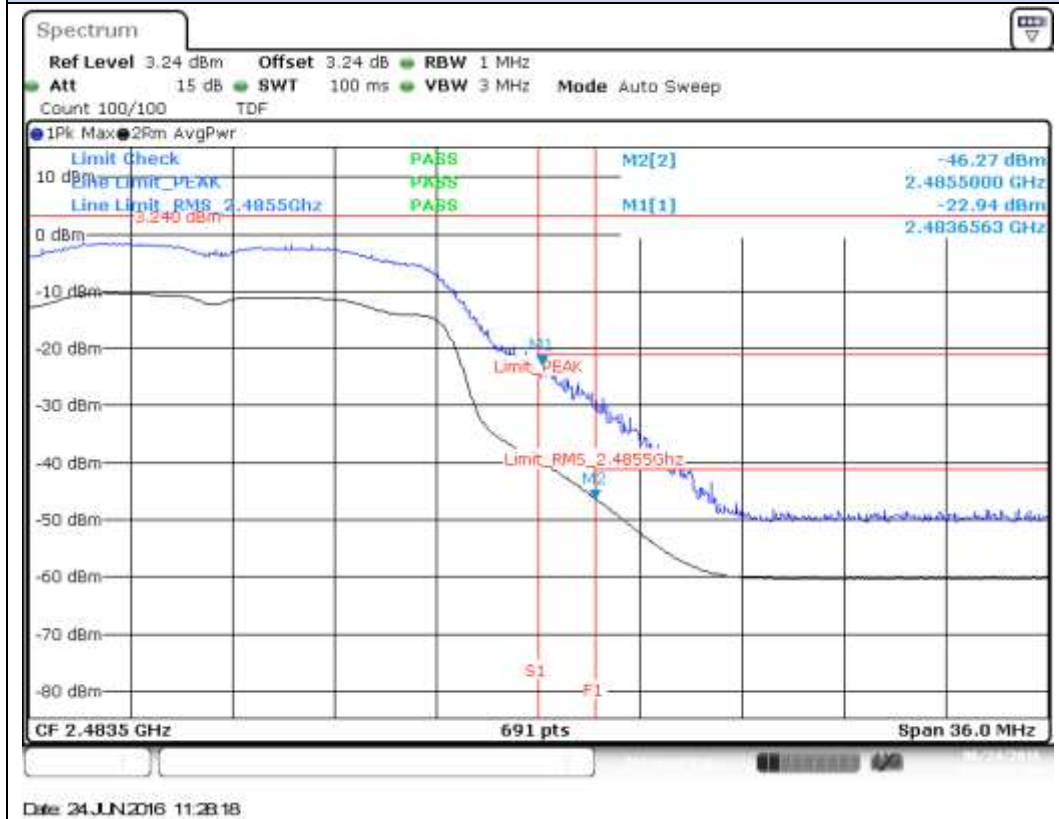
BE High Freq Section (restricted), Chain B – CH12



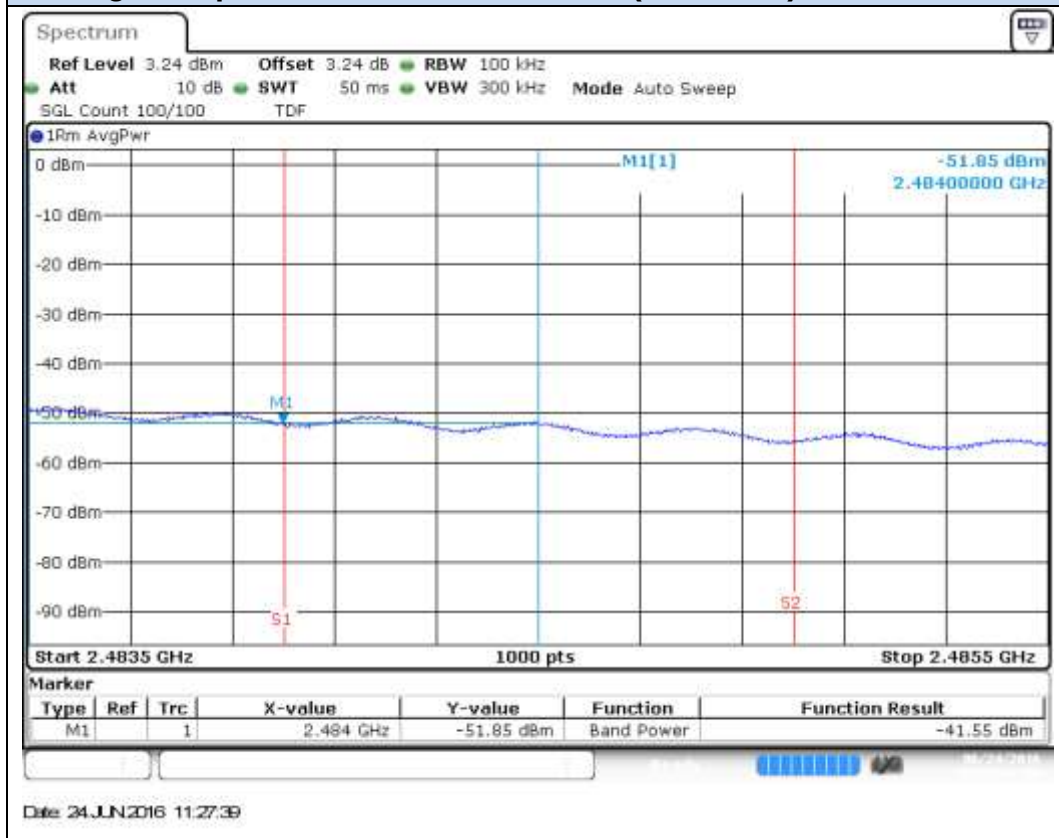
BE High Freq Section RMS within 2MHz(restricted), Chain B – CH12



BE High Freq Section (restricted), Chain B – CH13

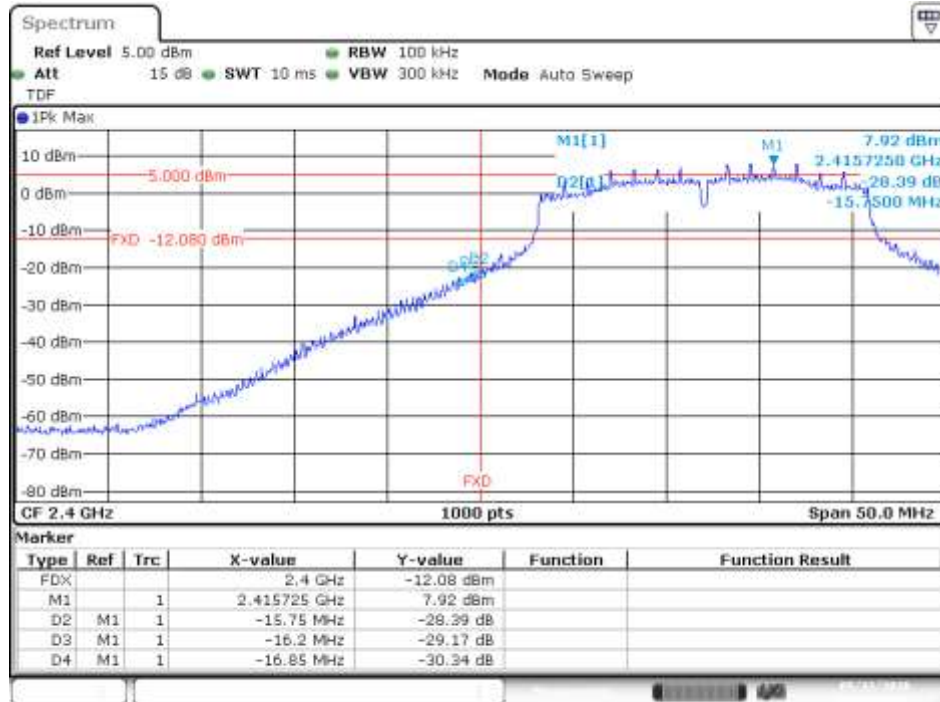


BE High Freq Section RMS within 2MHz (restricted), Chain B – CH13



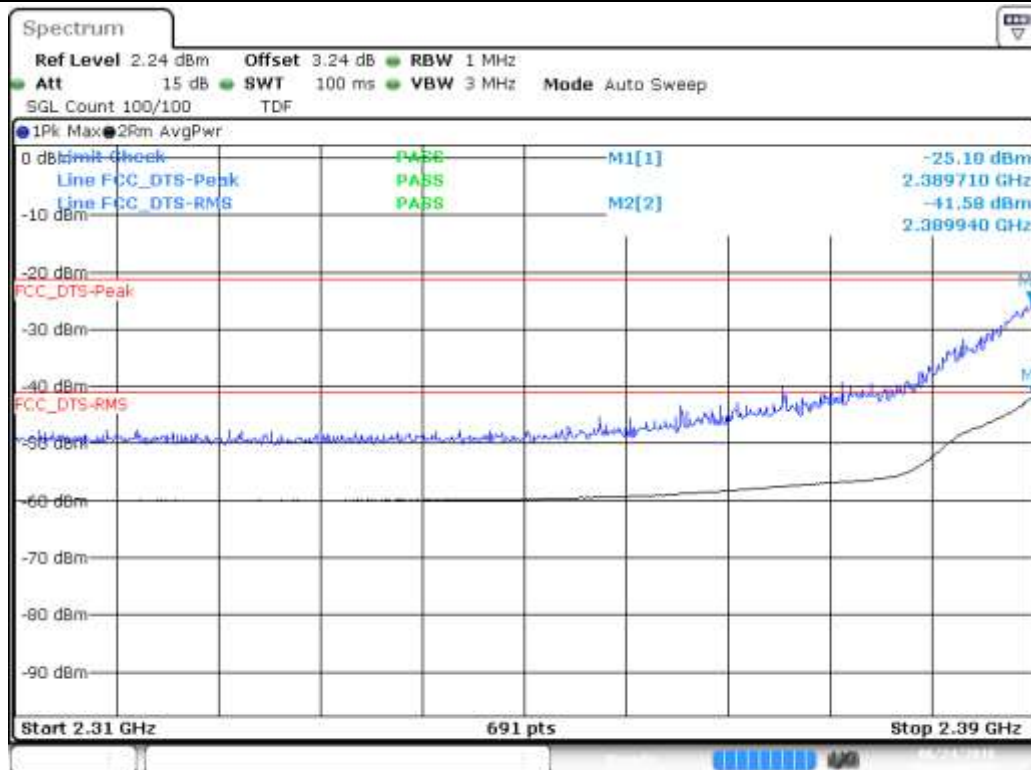
802.11n20 (SISO), HT0

BE Low Freq Section, Chain A - CH1



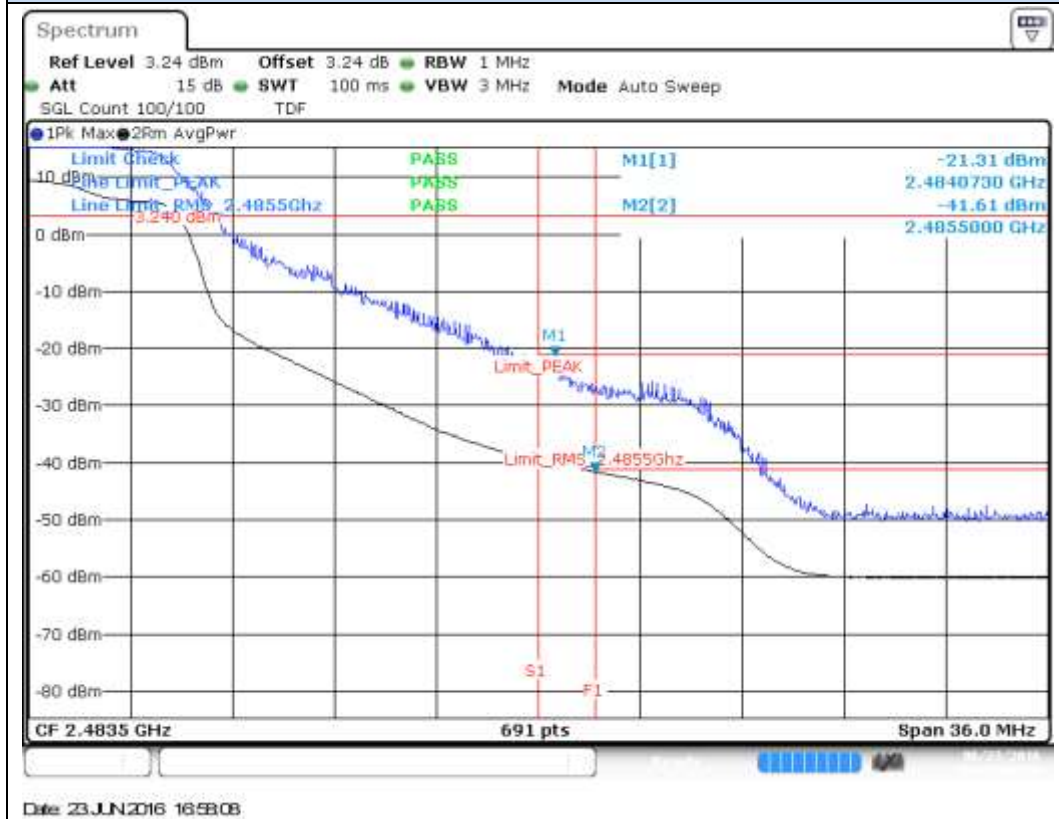
Date: 12 MAY 2016 14:38:06

BE Low Freq Section (restricted), Chain A - CH1

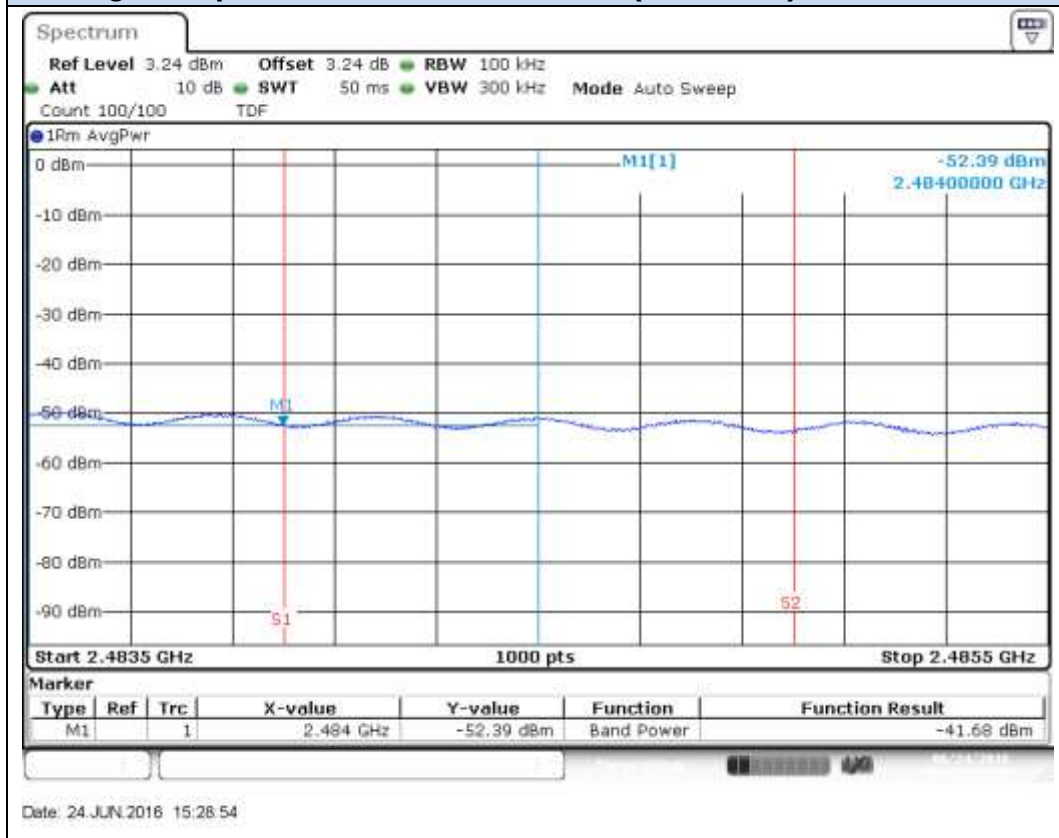


Date: 24 JUN 2016 18:04:09

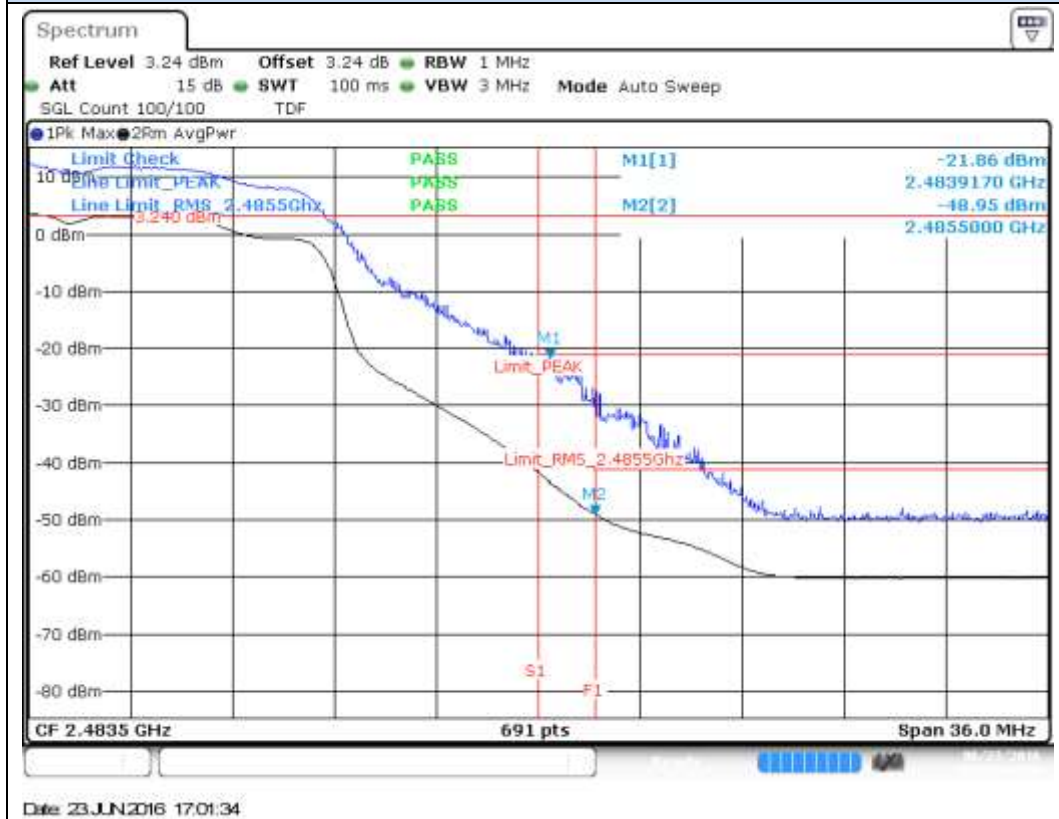
BE High Freq Section (restricted), Chain A – CH11



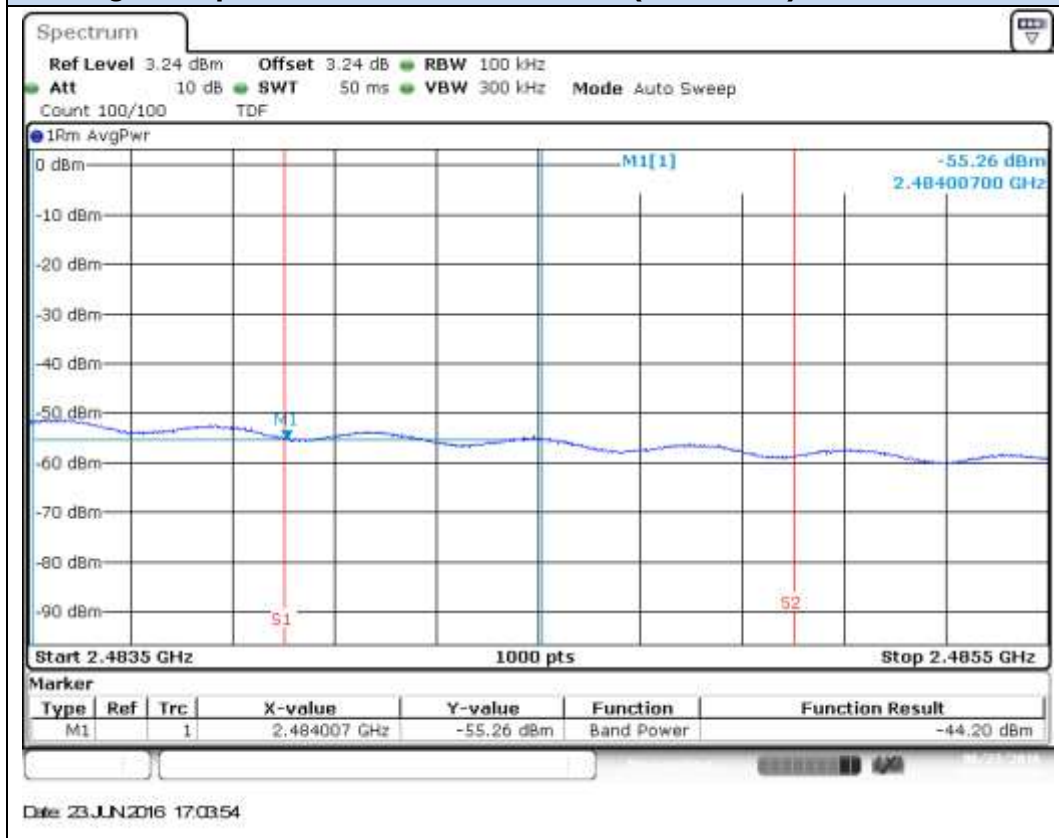
BE High Freq Section RMS within 2MHz (restricted), Chain A – CH11



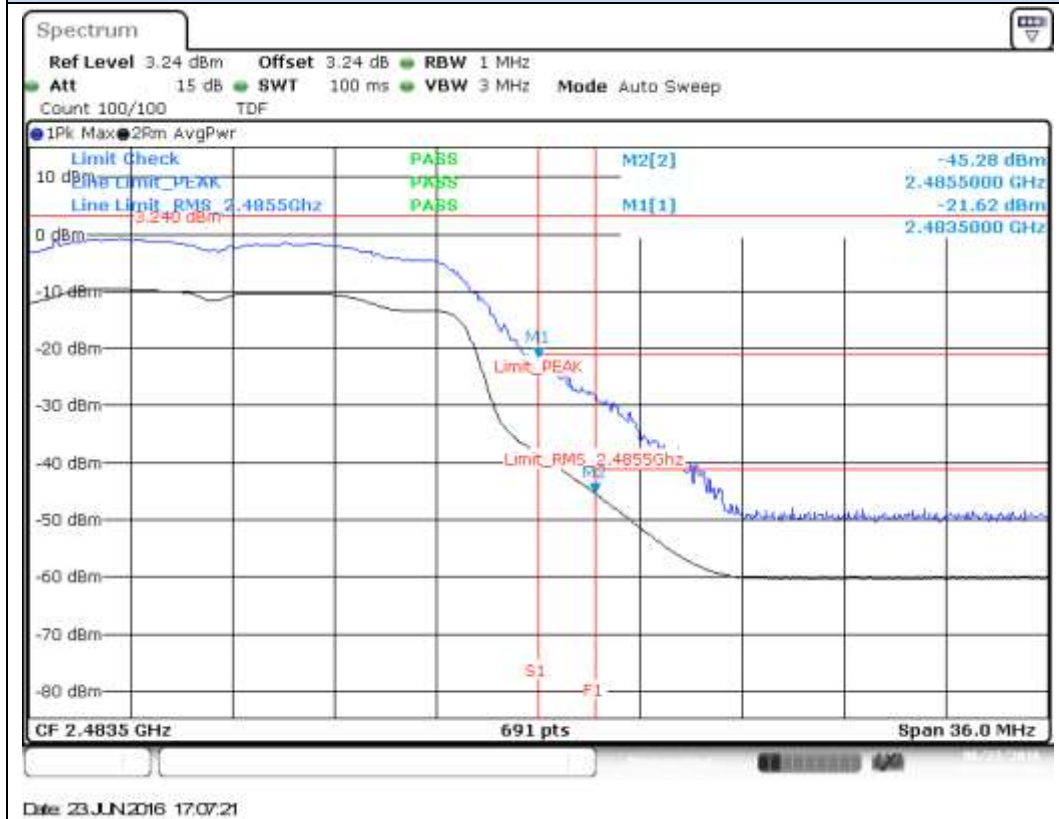
BE High Freq Section (restricted), Chain A – CH12



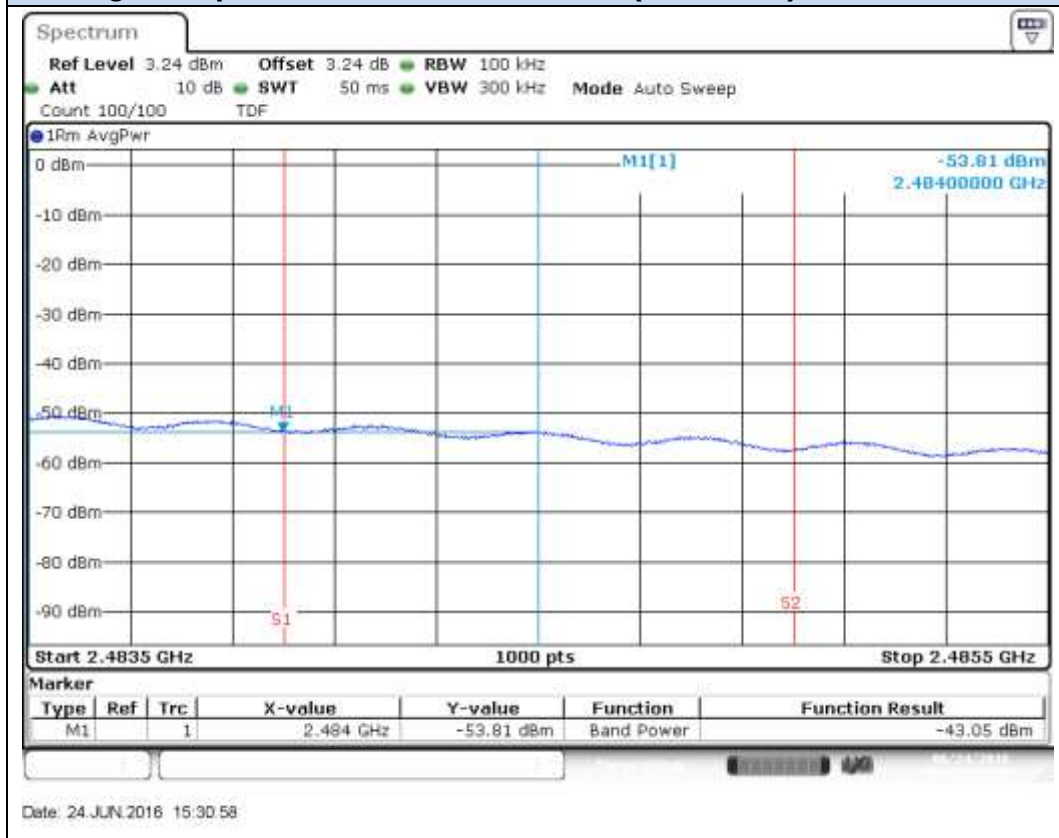
BE High Freq Section RMS within 2MHz(restricted), Chain A – CH12



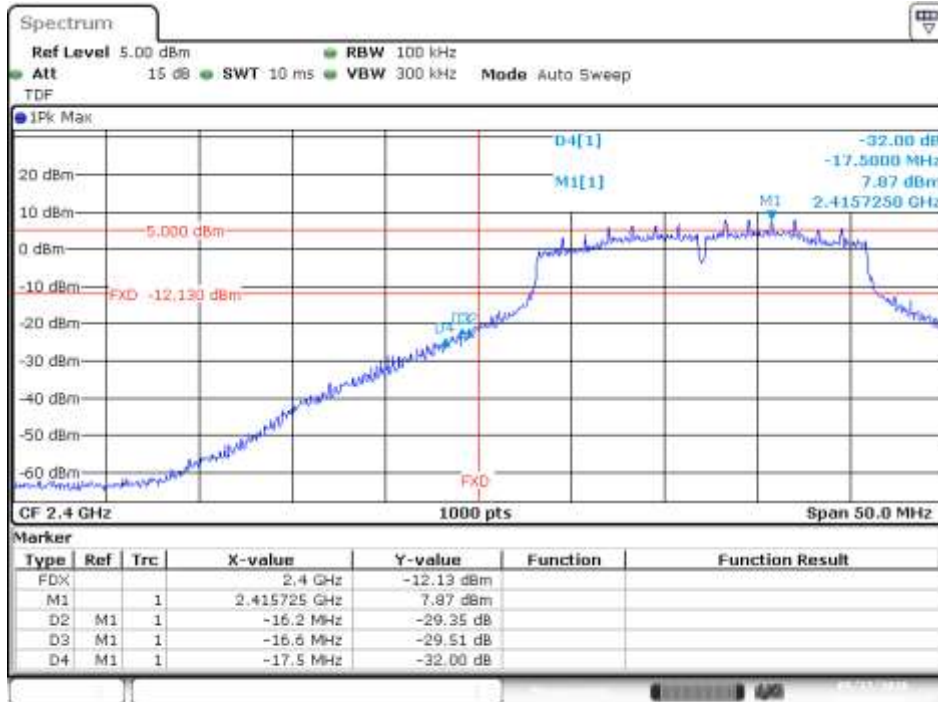
BE High Freq Section (restricted), Chain A – CH13



BE High Freq Section RMS within 2MHz (restricted), Chain A – CH13

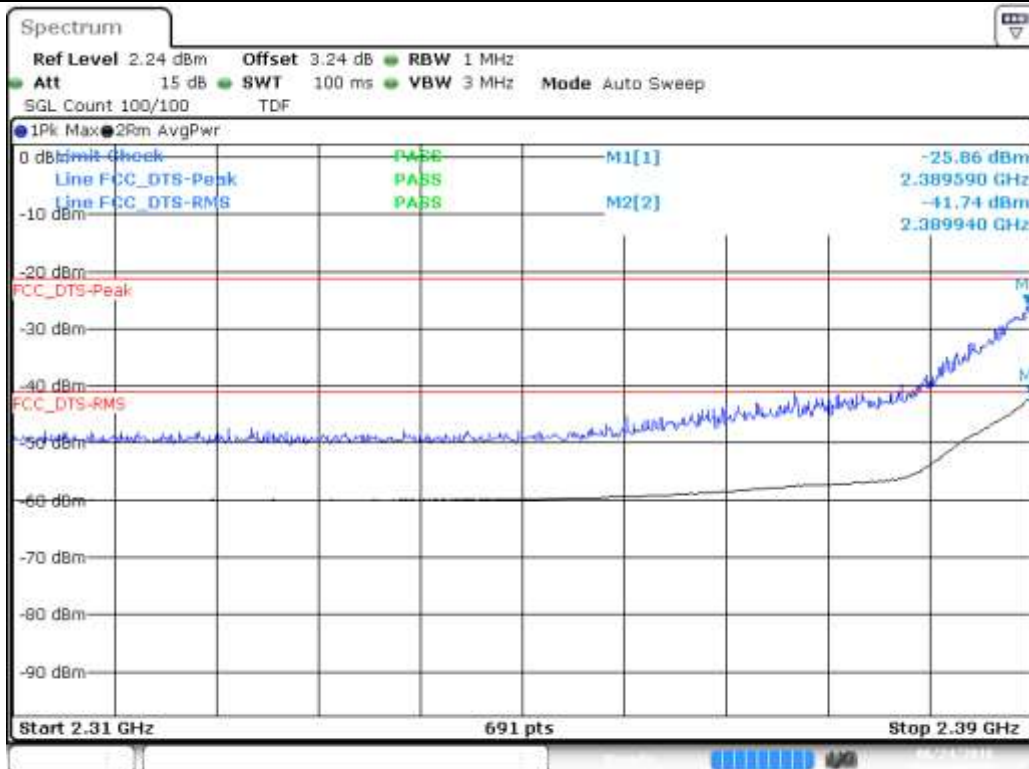


BE Low Freq Section, Chain B - CH1

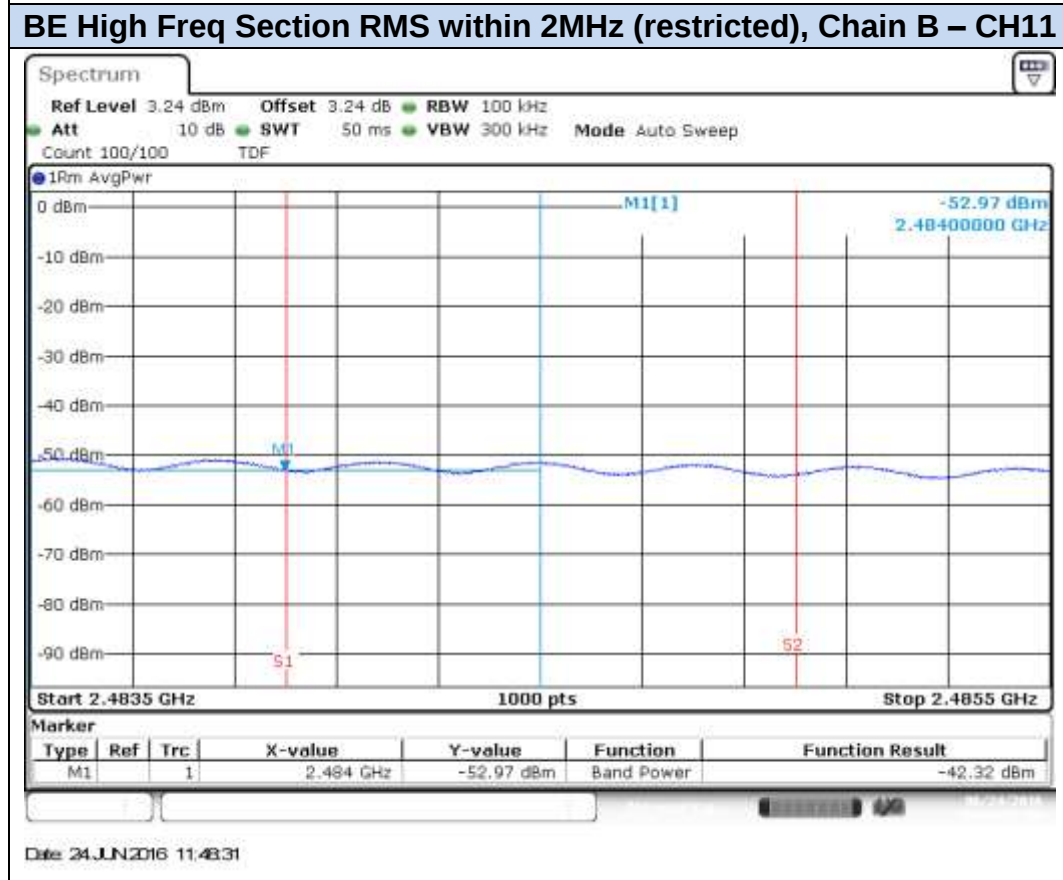
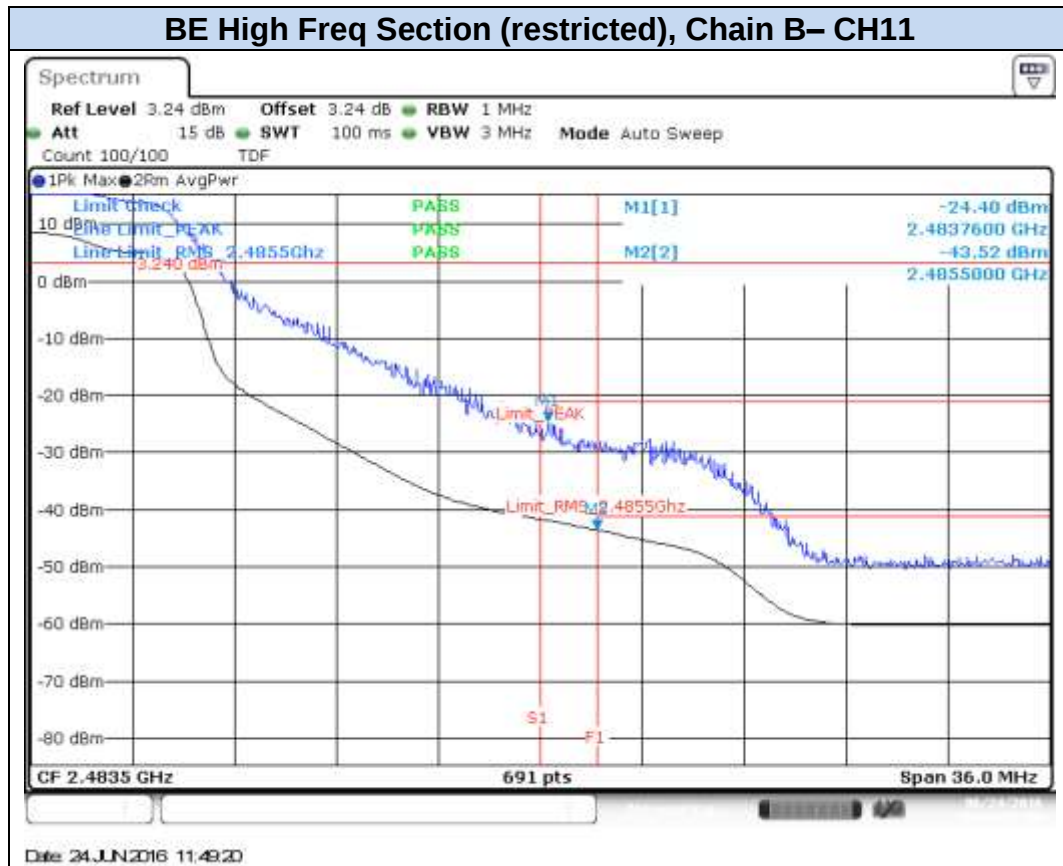


Date: 17.MAY.2016 18:23:06

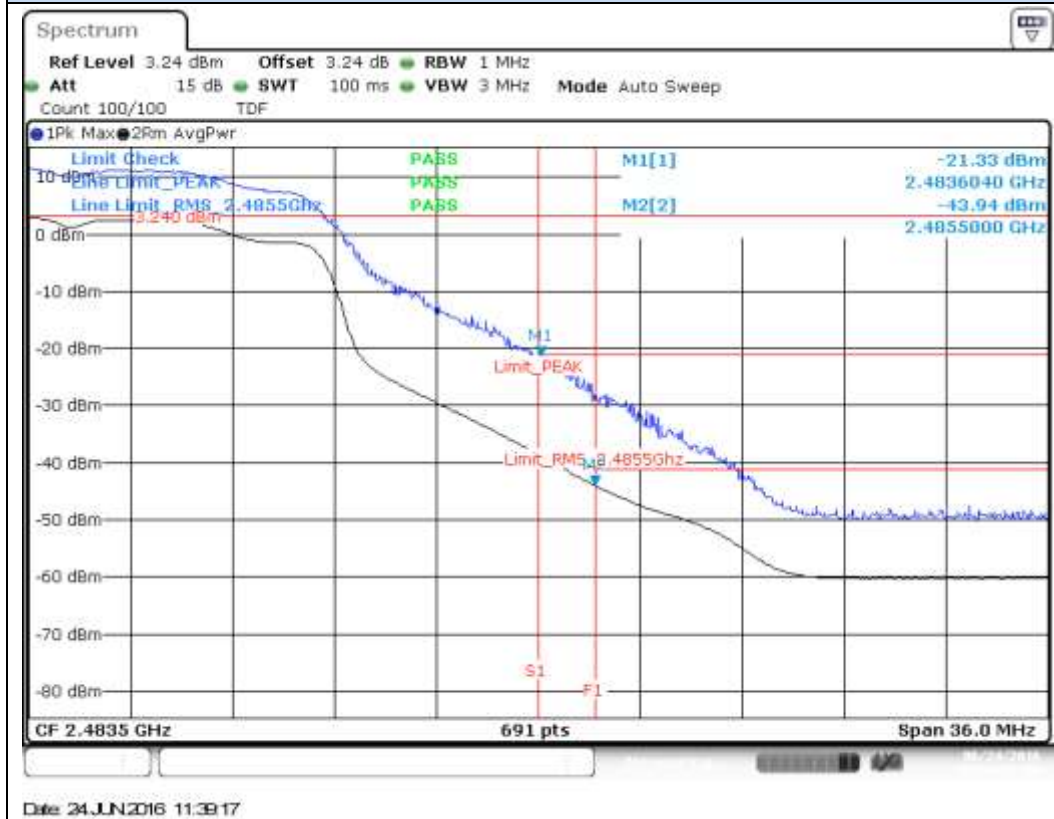
BE Low Freq Section (restricted), Chain B - CH1



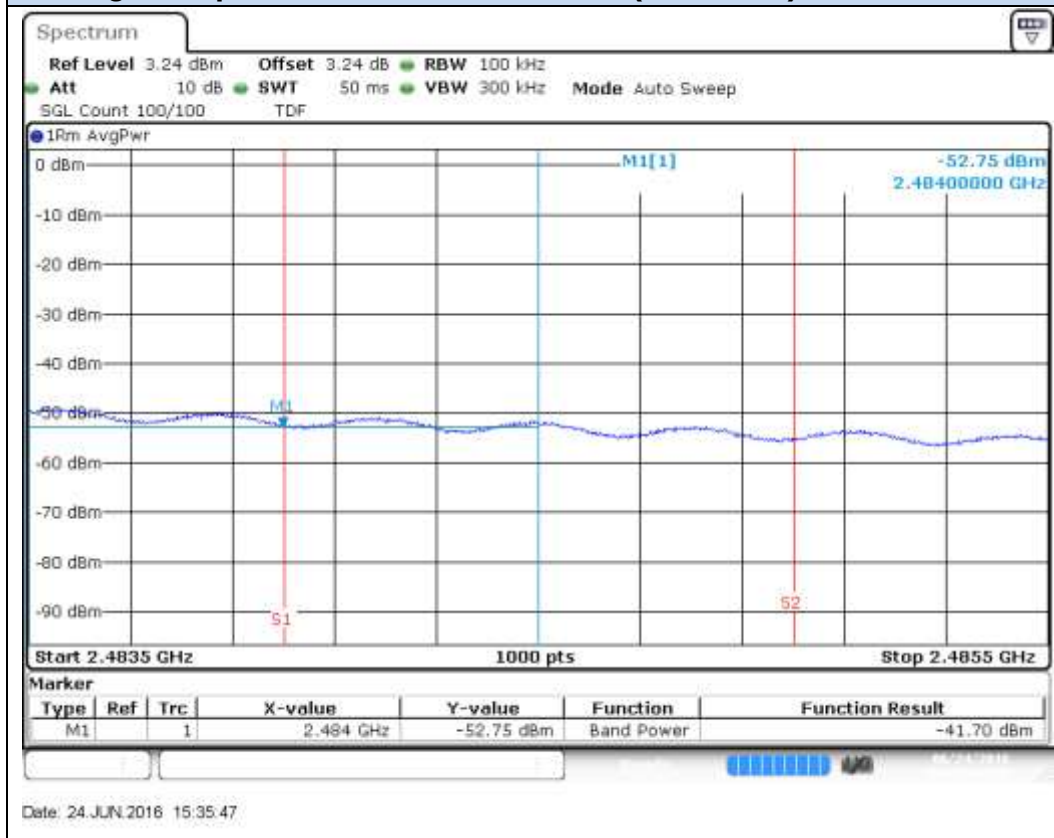
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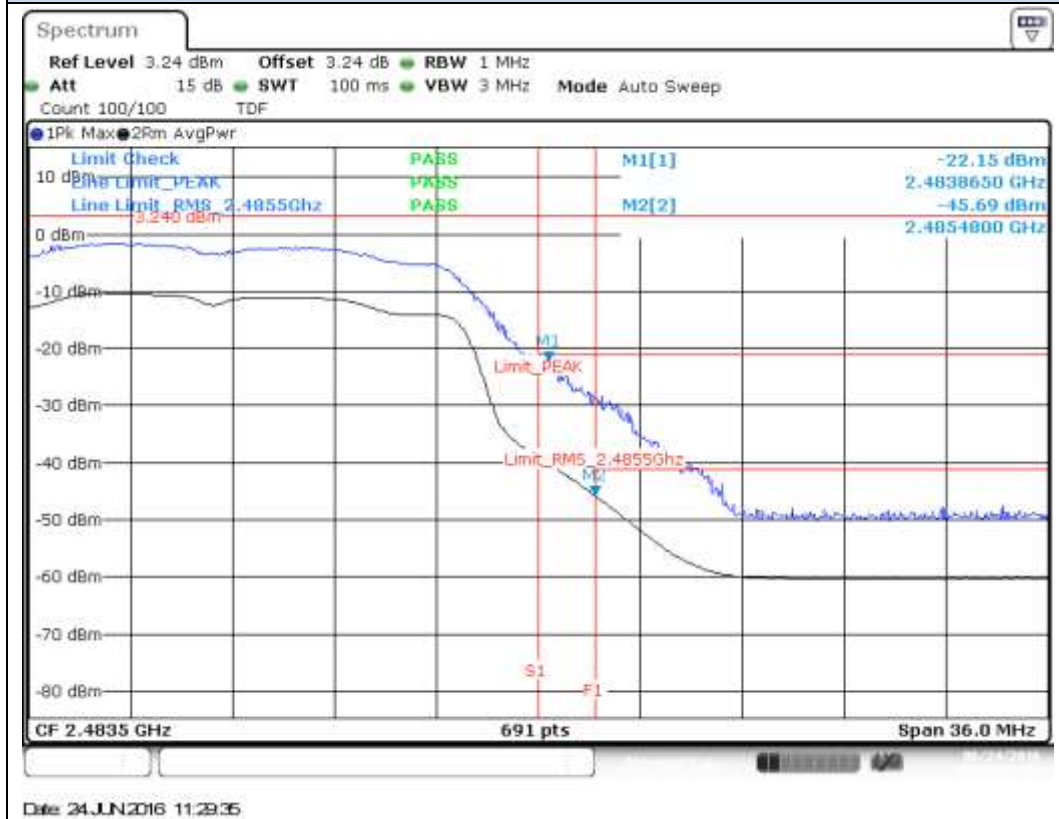
BE High Freq Section (restricted), Chain B – CH12



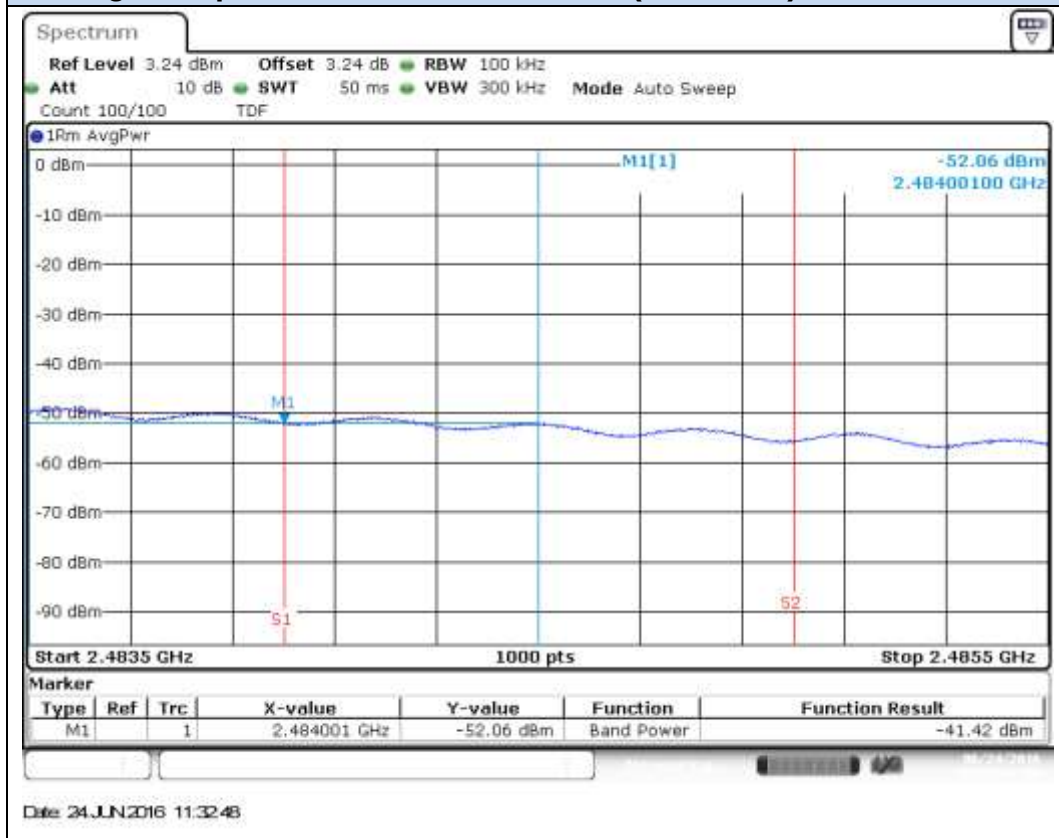
BE High Freq Section RMS within 2MHz (restricted), Chain B – CH12



BE High Freq Section (restricted), Chain B – CH13

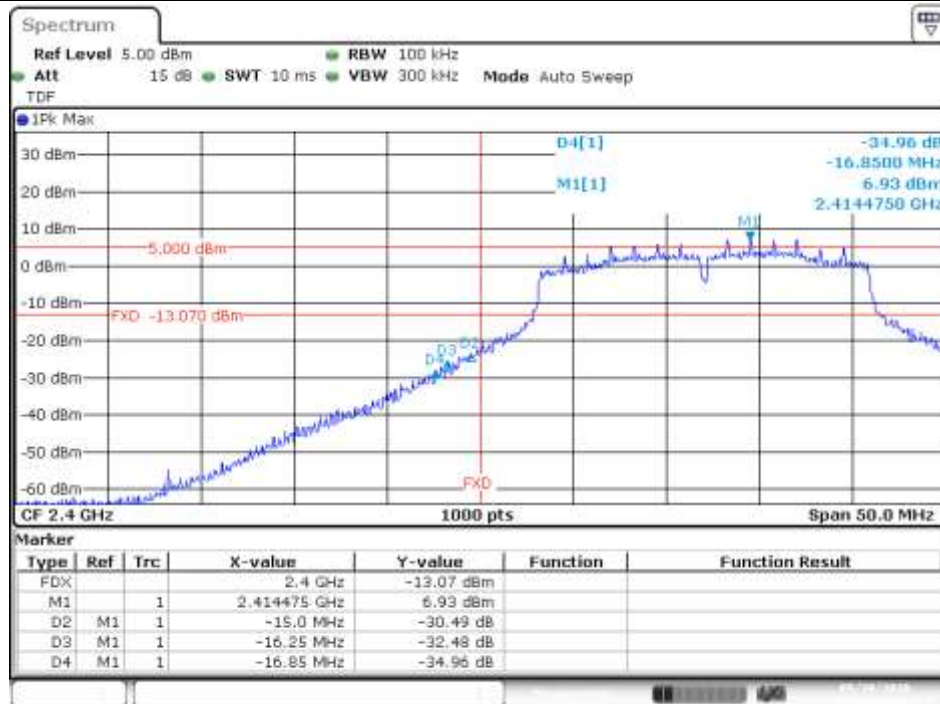


BE High Freq Section RMS within 2MHz (restricted), Chain B – CH13



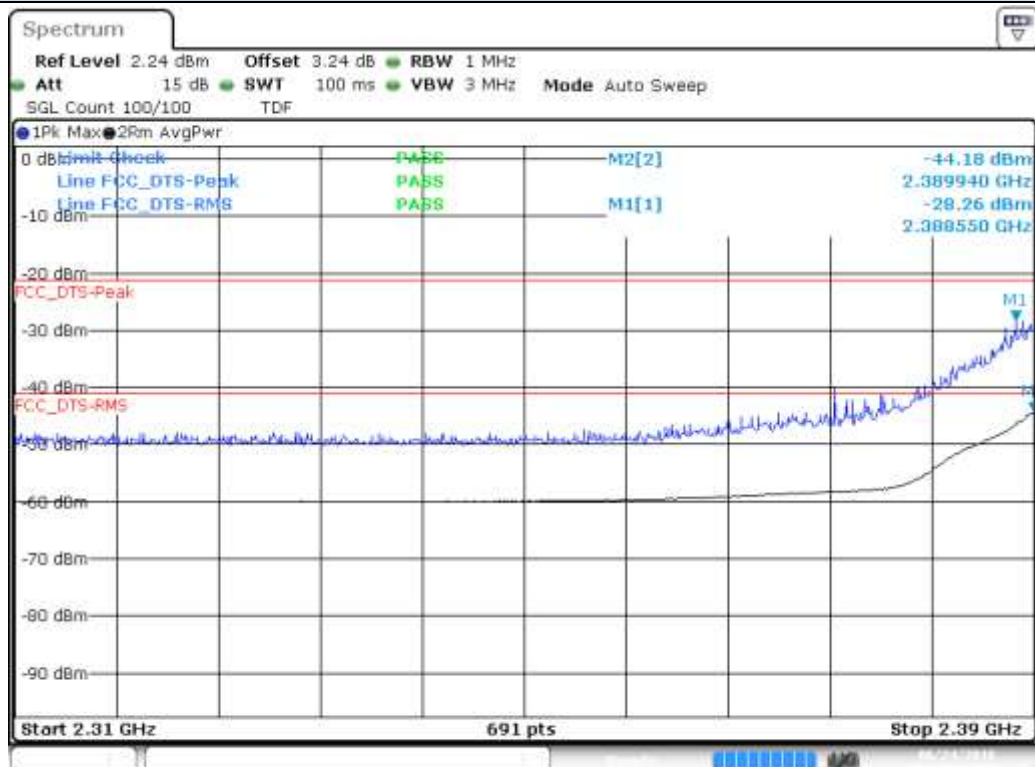
802.11n20 (MIMO), HT8

BE Low Freq Section, Chain A - CH1



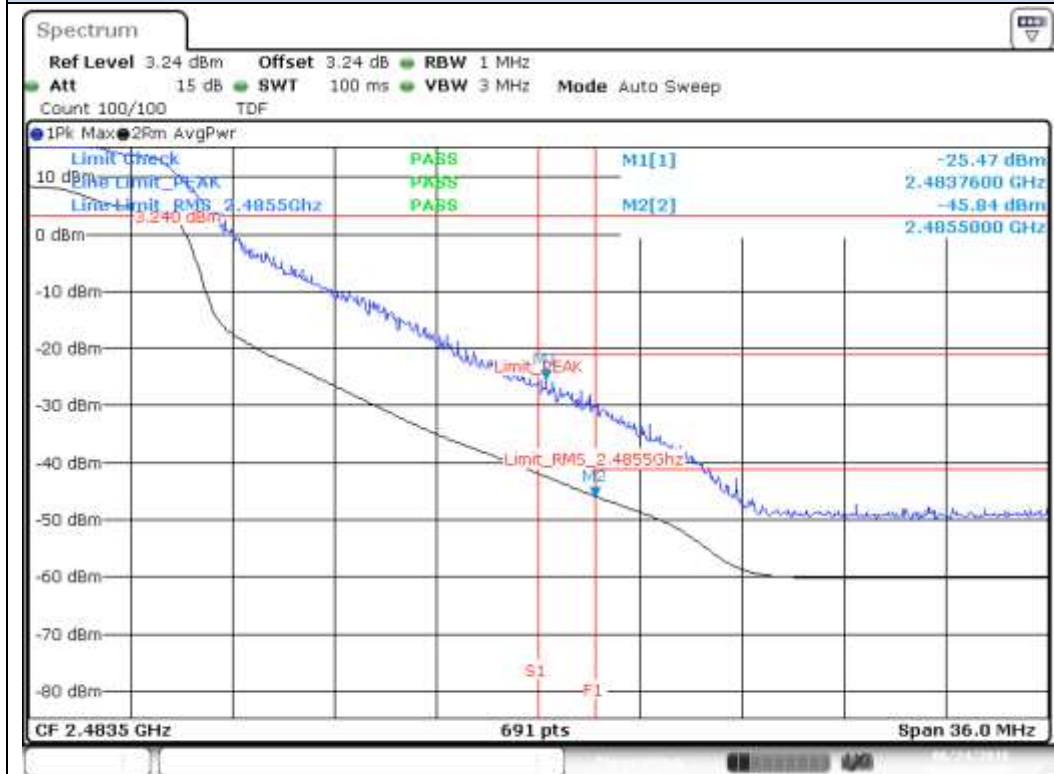
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BE Low Freq Section (restricted), Chain A - CH1



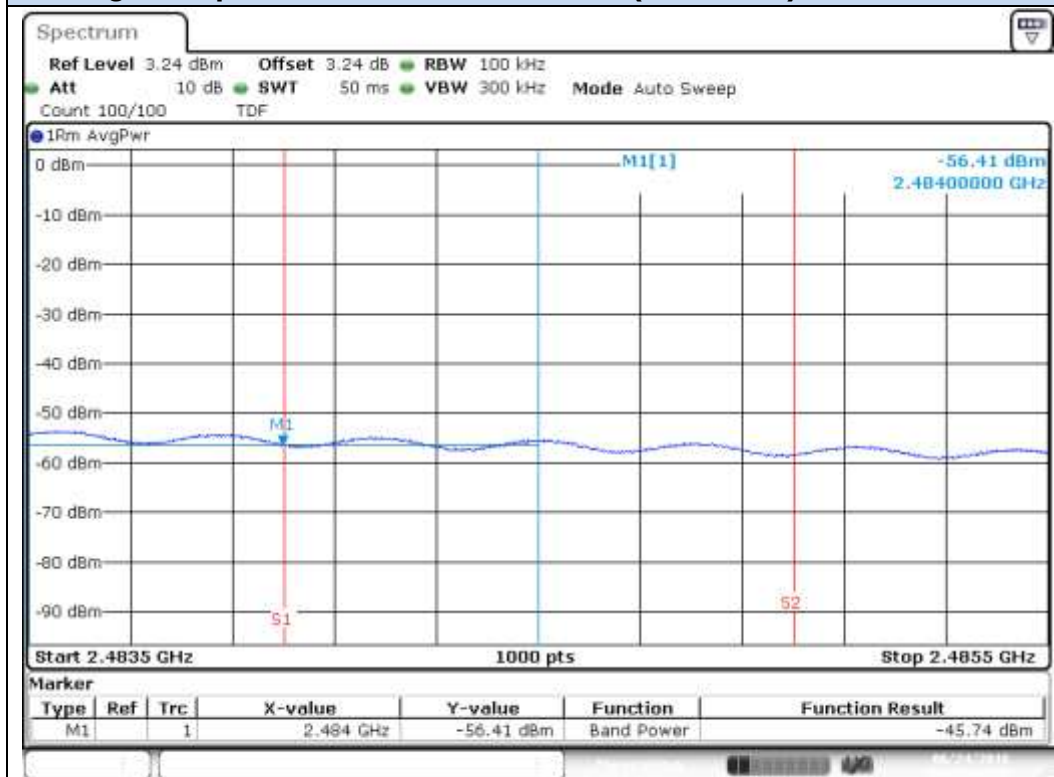
Date: 24.JUN.2016 18:22:39

BE High Freq Section (restricted), Chain A – CH11



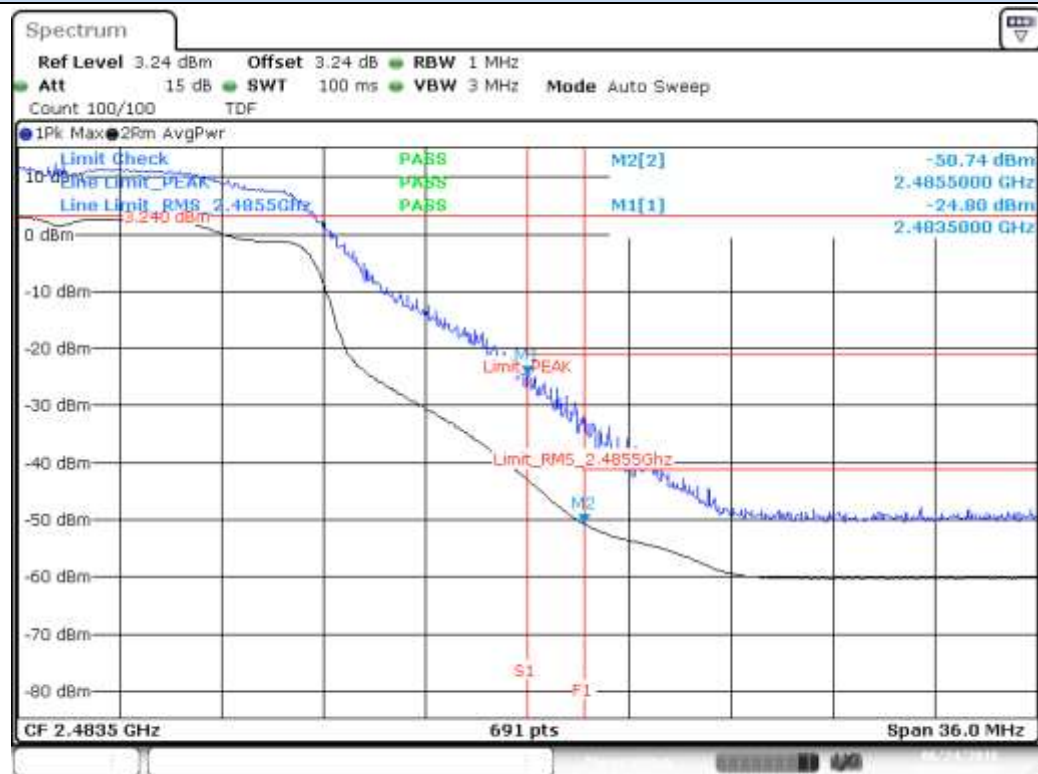
Date: 24 JUN 2016 15:49:44

BE High Freq Section RMS within 2MHz (restricted), Chain A – CH11



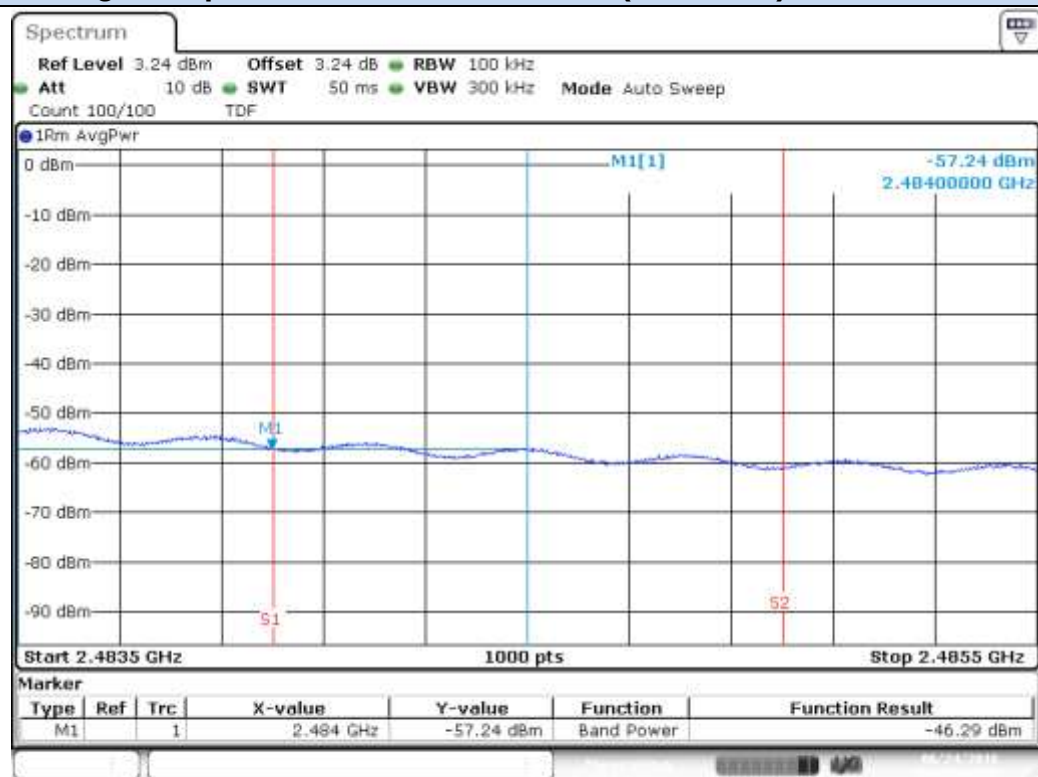
Date: 24 JUN 2016 16:18:10

BE High Freq Section (restricted), Chain A – CH12



Date: 24 JUN 2016 17:41:44

BE High Freq Section RMS within 2MHz(restricted), Chain A – CH12



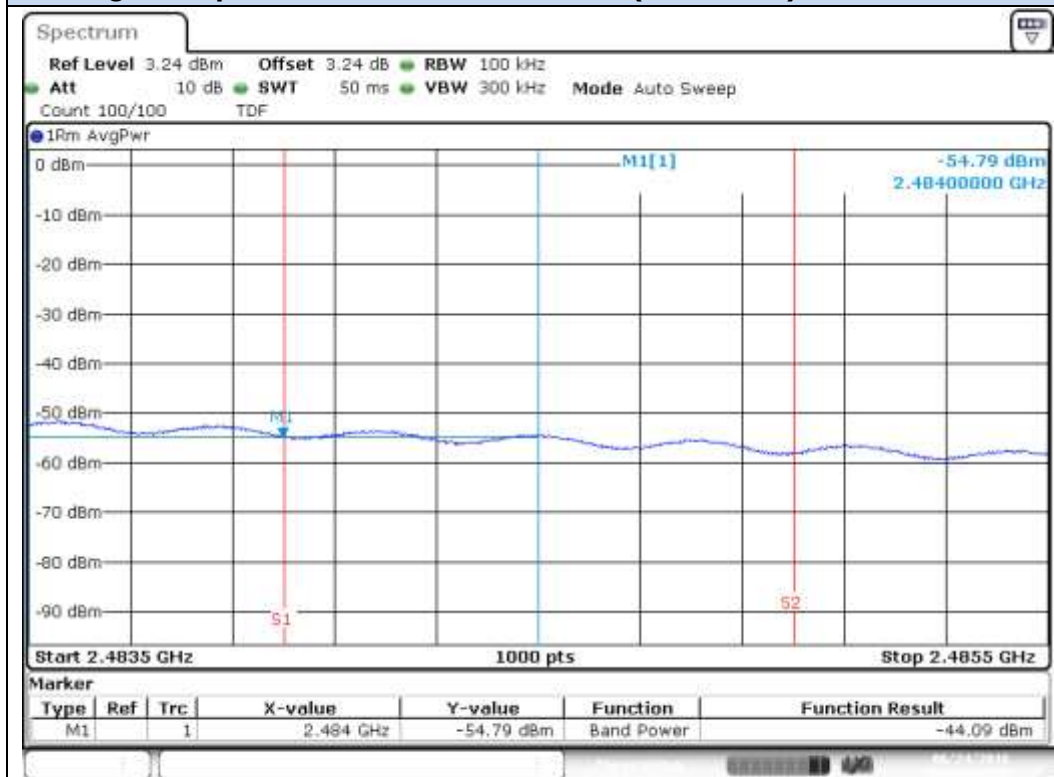
Date: 24 JUN 2016 16:30:26

BE High Freq Section (restricted), Chain A – CH13



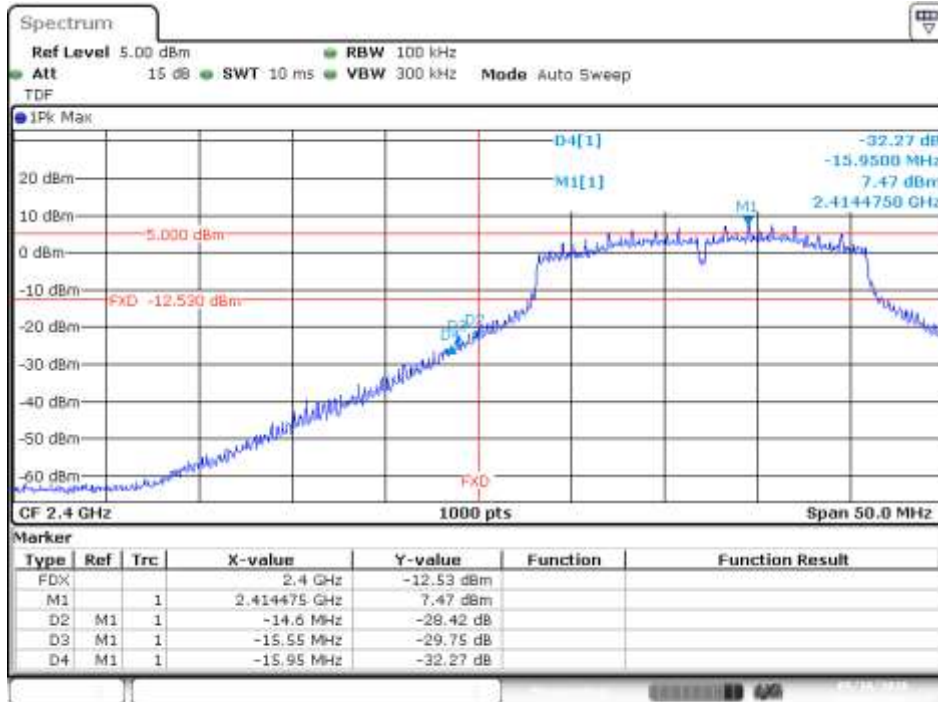
Date: 24 JUN 2016 16:41:26

BE High Freq Section RMS within 2MHz (restricted), Chain A – CH13



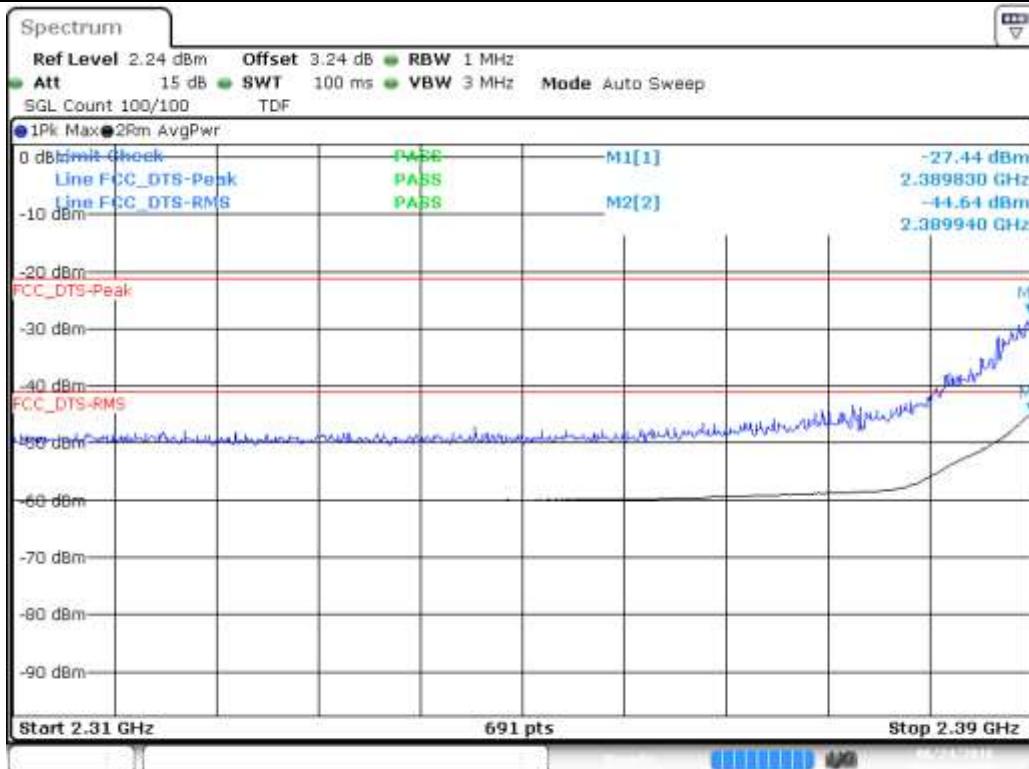
Date: 24 JUN 2016 16:40:38

BE Low Freq Section, Chain B - CH1



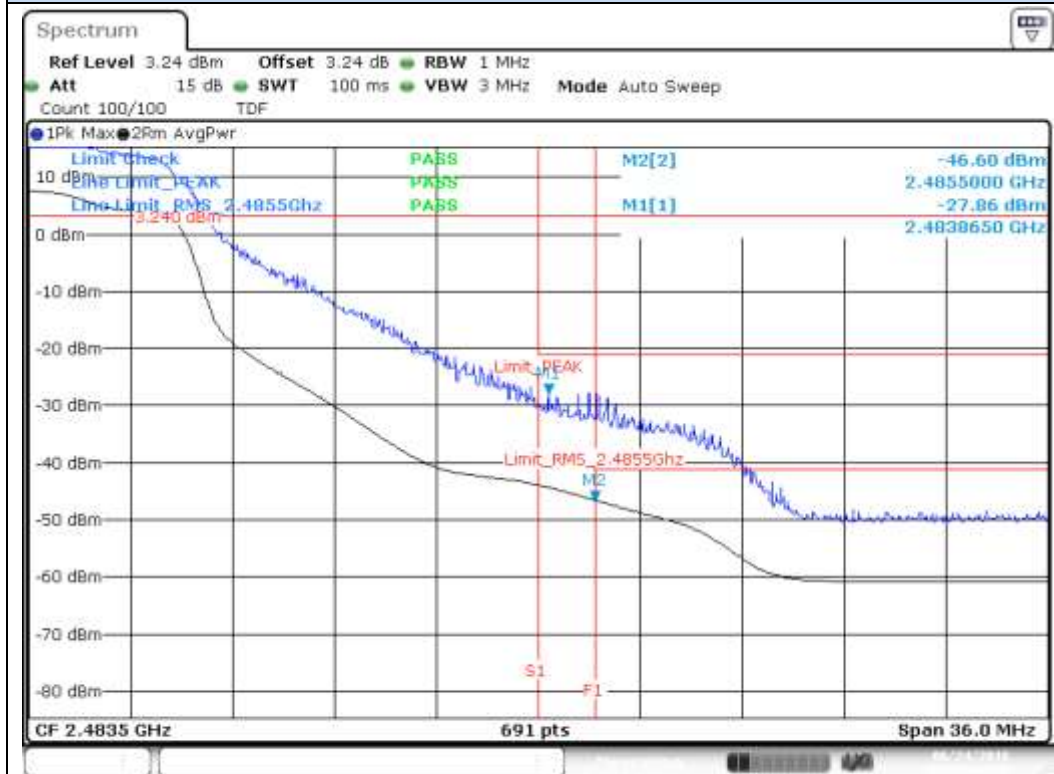
Date: 18 MAY 2016 10:30:56

BE Low Freq Section (restricted), Chain B - CH1



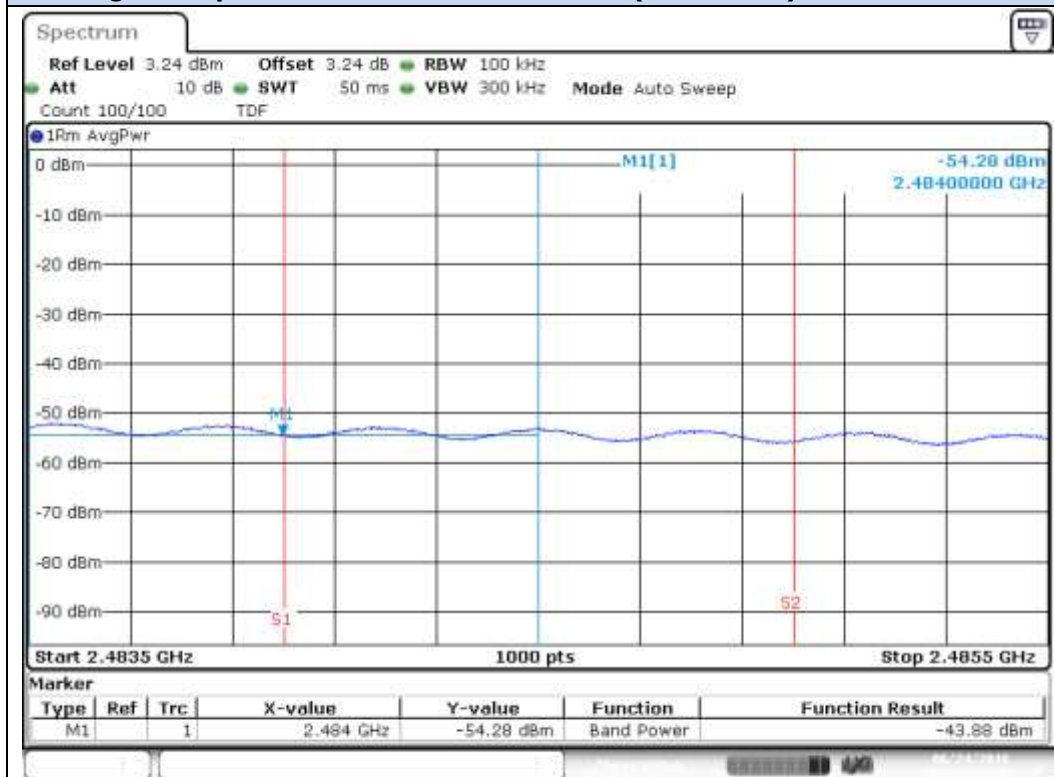
Date: 24 JUN 2016 18:38:01

BE High Freq Section (restricted), Chain B – CH11



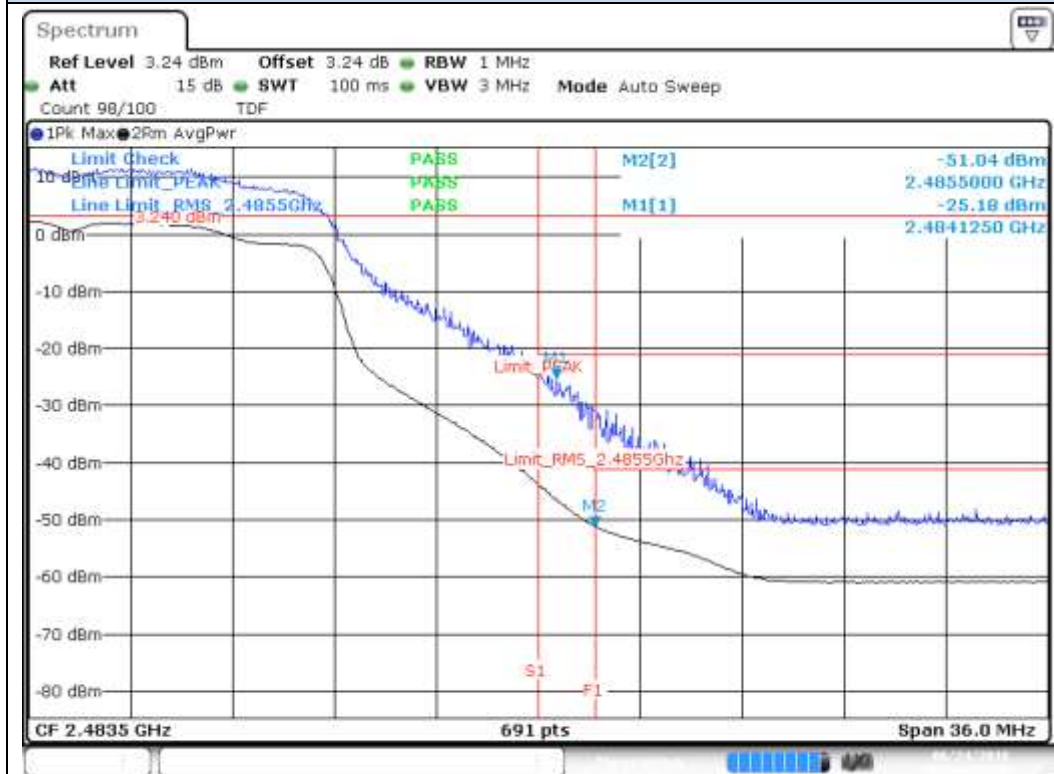
Date: 24 JUN 2016 17:26:27

BE High Freq Section RMS within 2MHz (restricted), Chain B – CH11

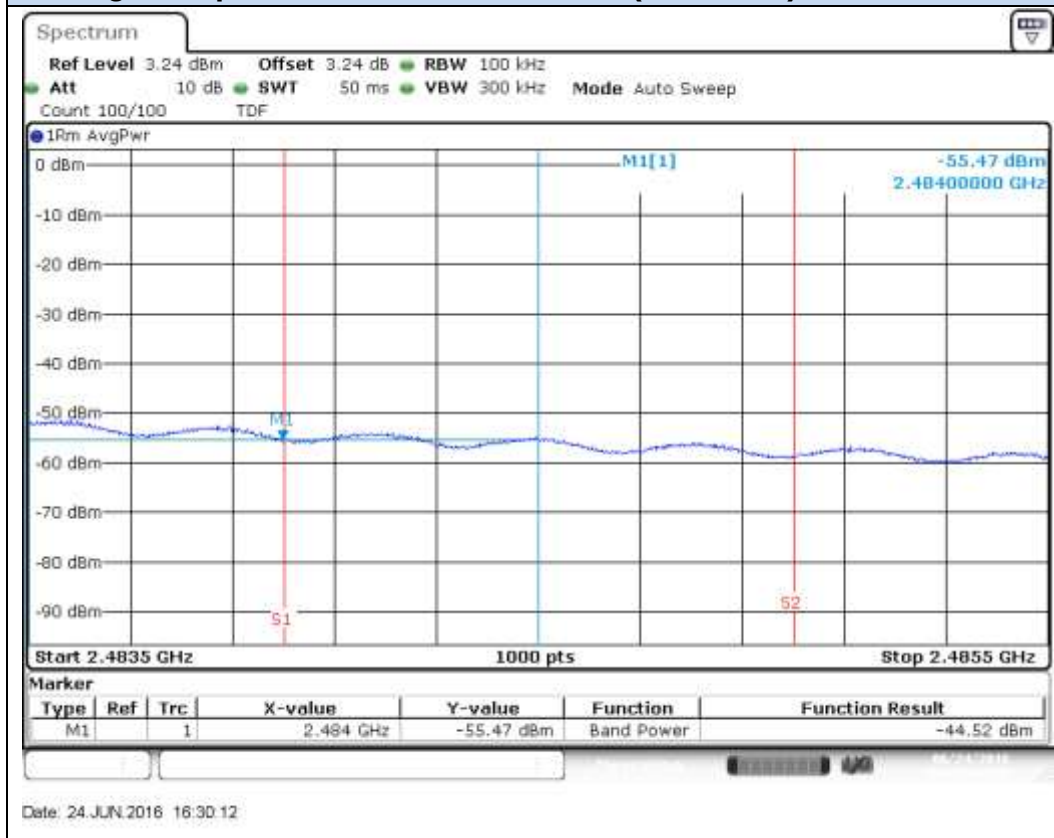


Date: 24 JUN 2016 16:16:21

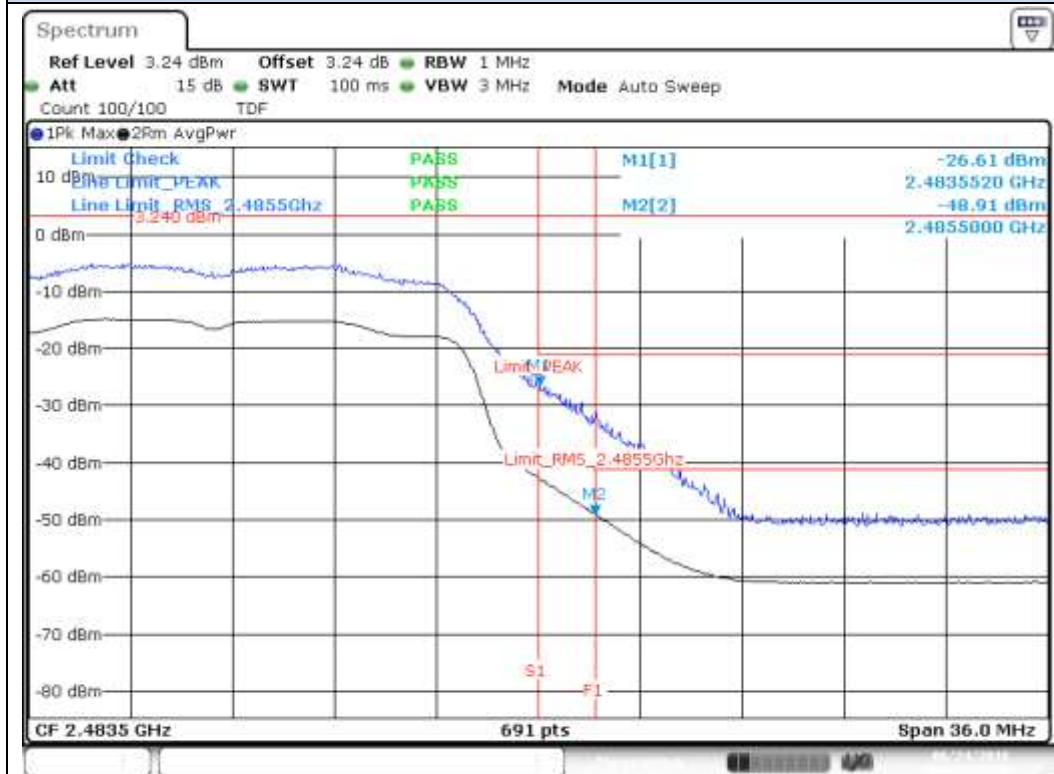
BE High Freq Section (restricted), Chain B – CH12



BE High Freq Section RMS within 2MHz(restricted), Chain B – CH12

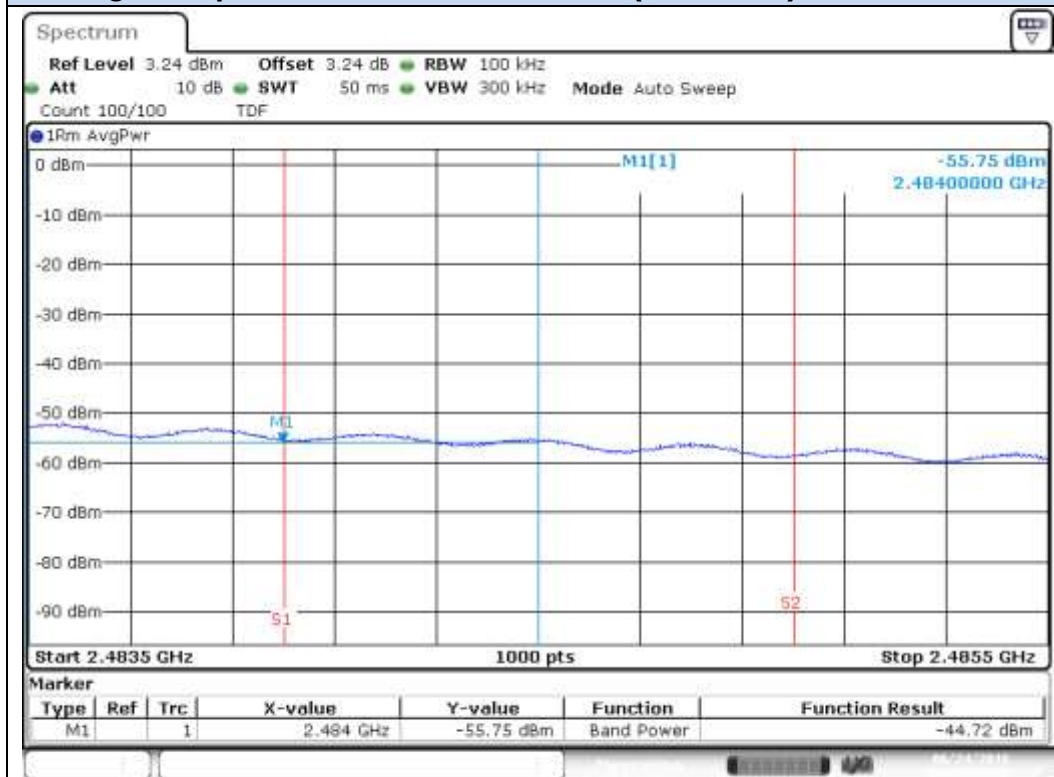


BE High Freq Section (restricted), Chain B – CH13



Date: 24 JUN 2016 16:41:15

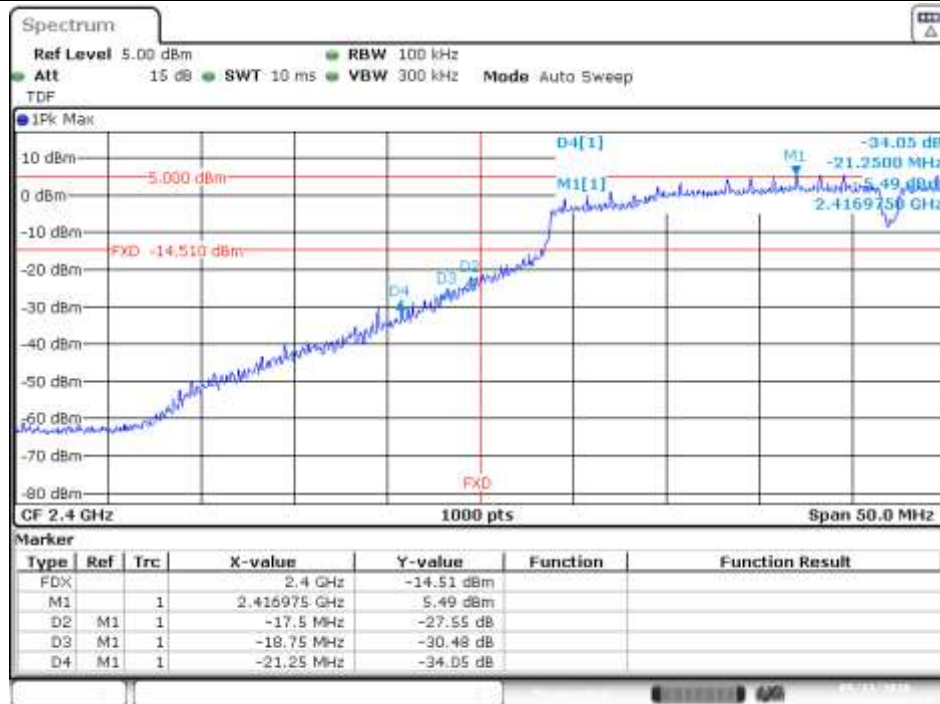
BE High Freq Section RMS within 2MHz (restricted), Chain B – CH13



Date: 24 JUN 2016 16:38:52

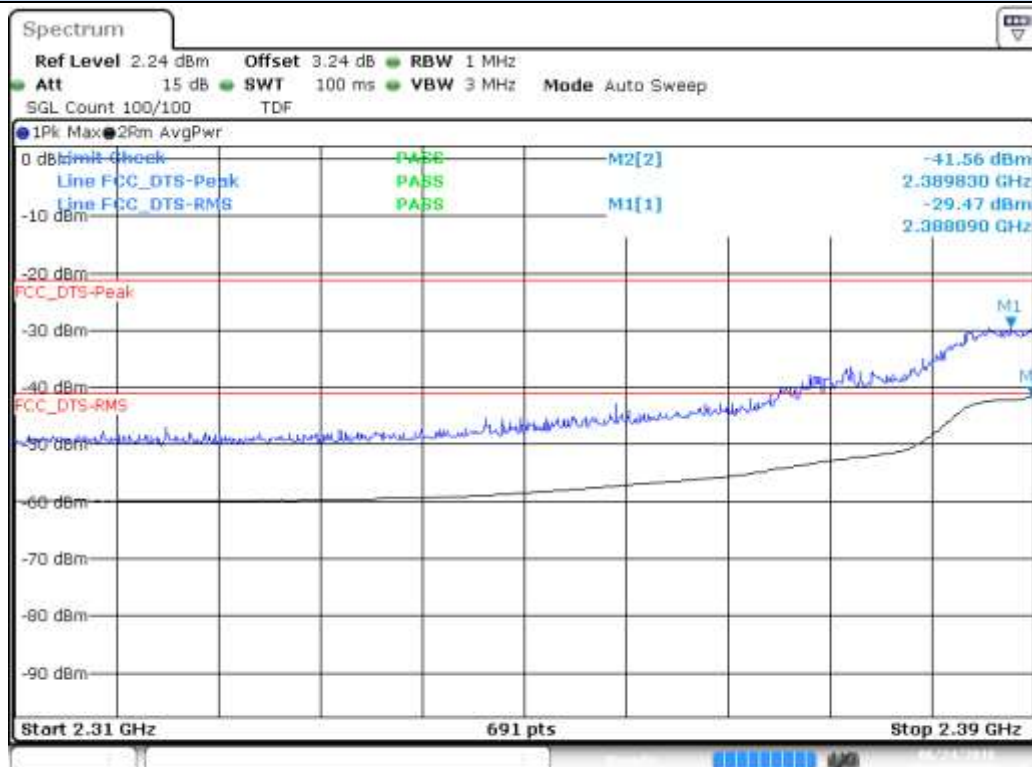
802.11n40 (SISO), HT0

BE Low Freq Section, Chain A – CH3F

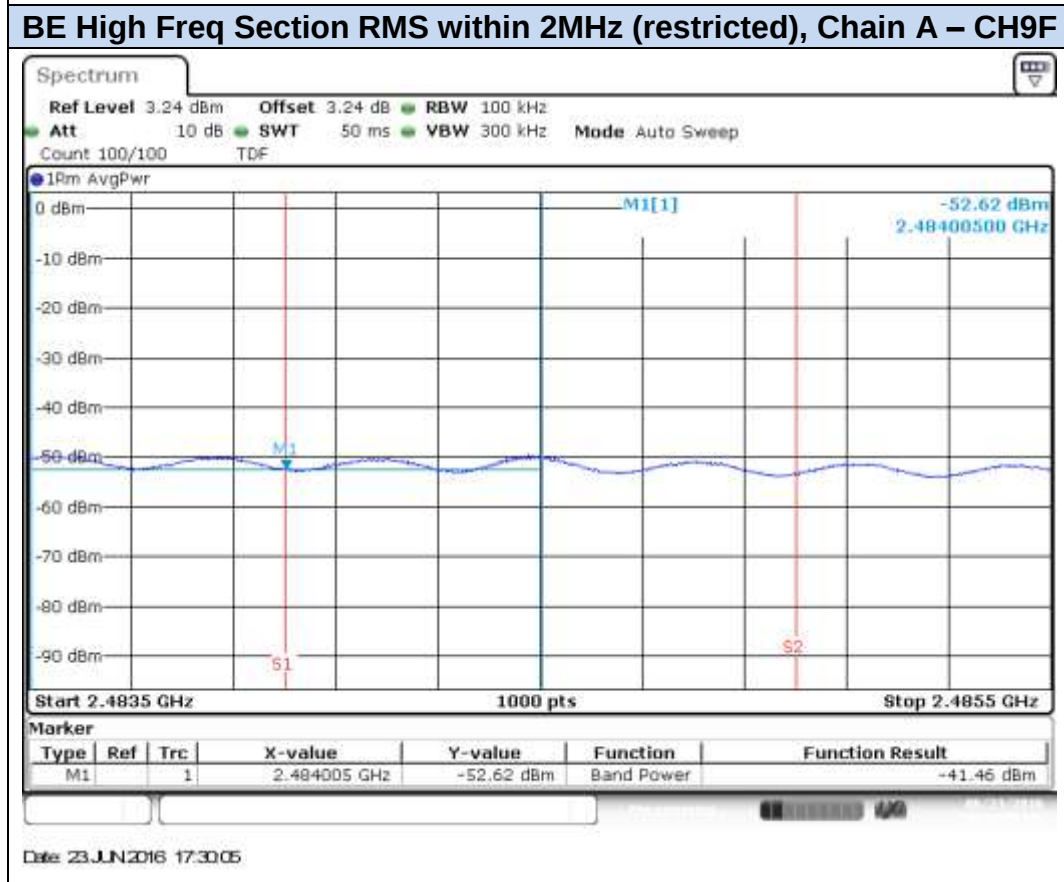
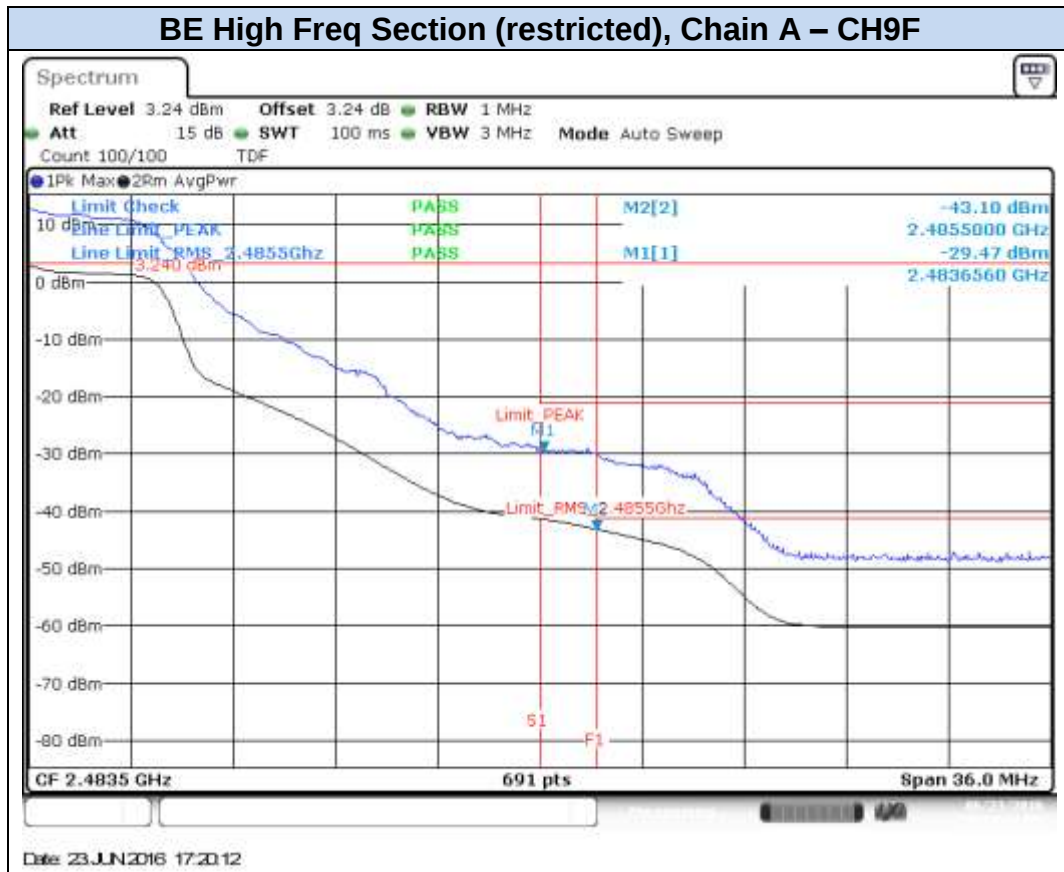


Date: 13.MAY.2016 11:20:18

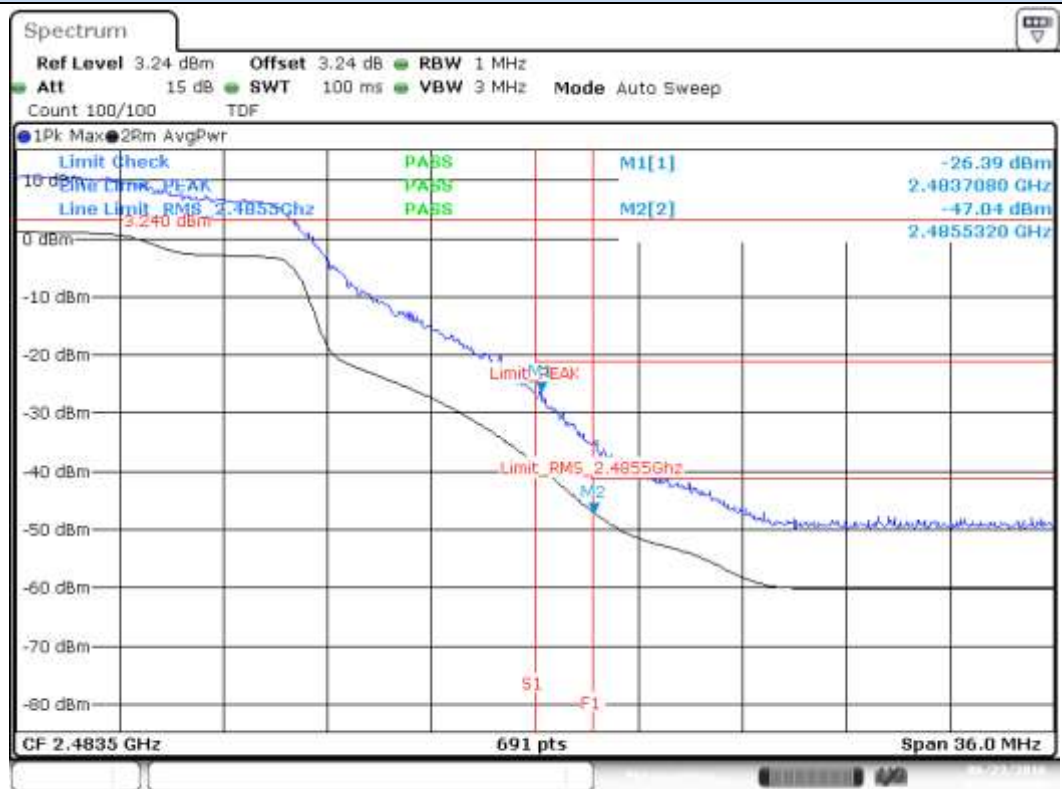
BE Low Freq Section (restricted), Chain A – CH3F



Date: 24.JUN.2016 18:18:54

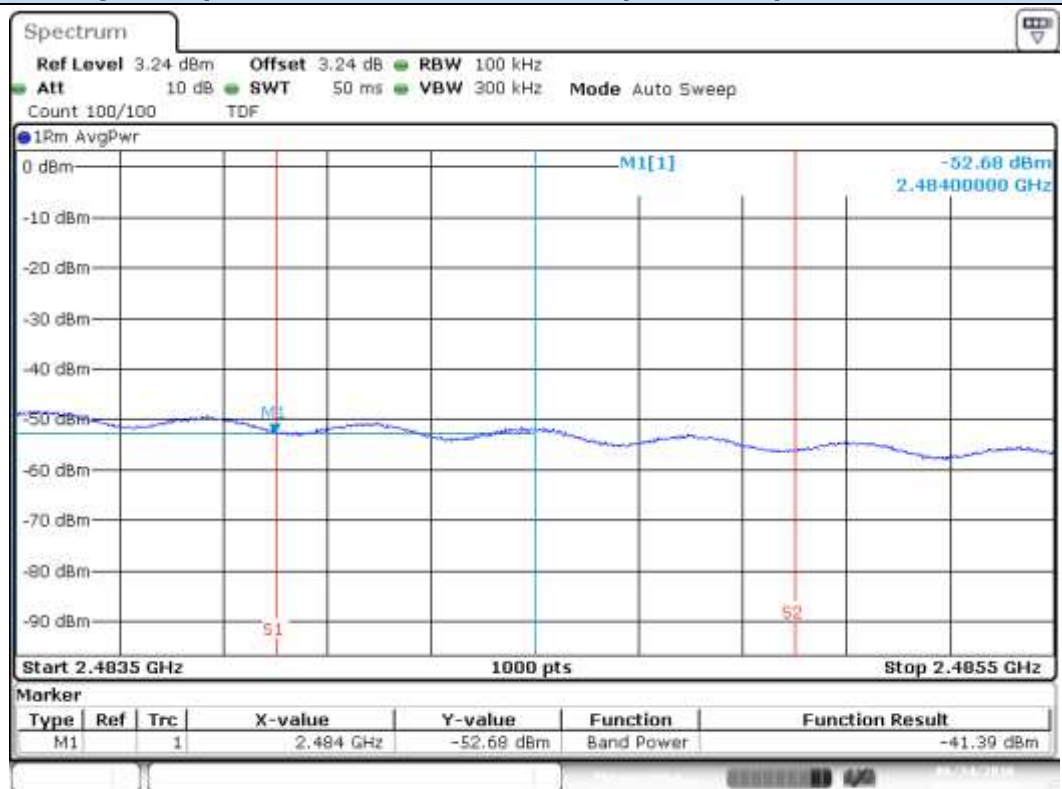


BE High Freq Section (restricted), Chain A – CH10F



Date: 23 JUN 2016 17:32:14

BE High Freq Section RMS within 2MHz(restricted), Chain A – CH10F



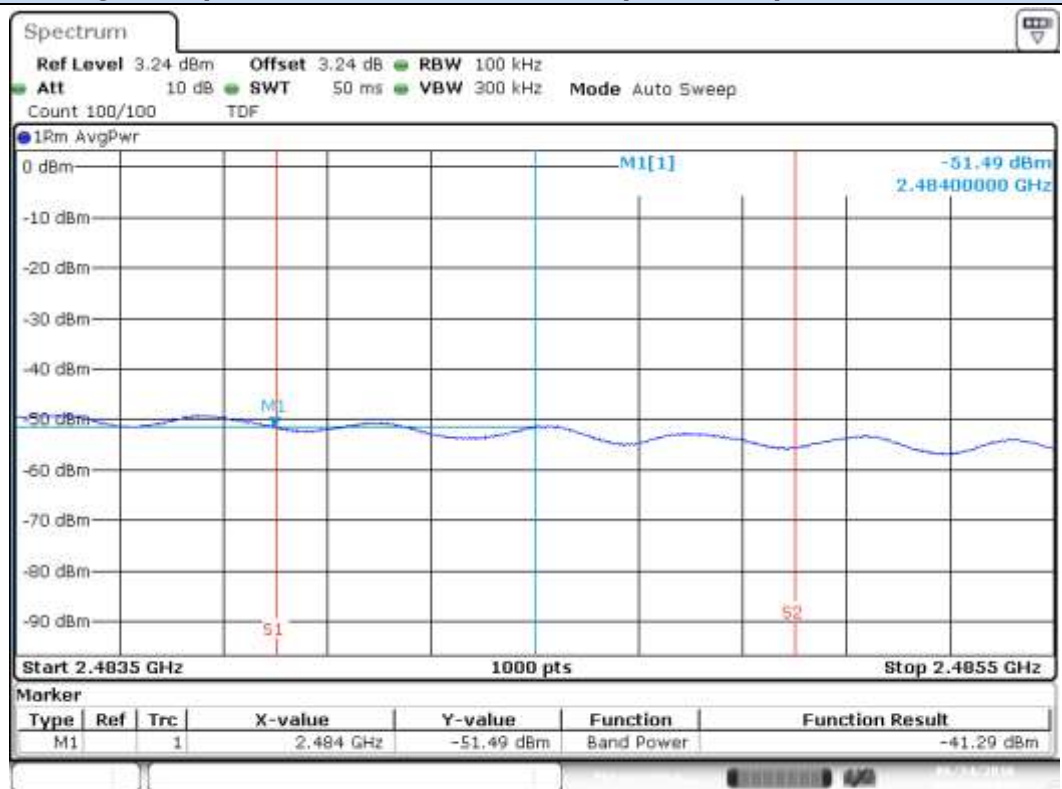
Date: 24 JUN 2016 17:20:38

BE High Freq Section (restricted), Chain A – CH11F



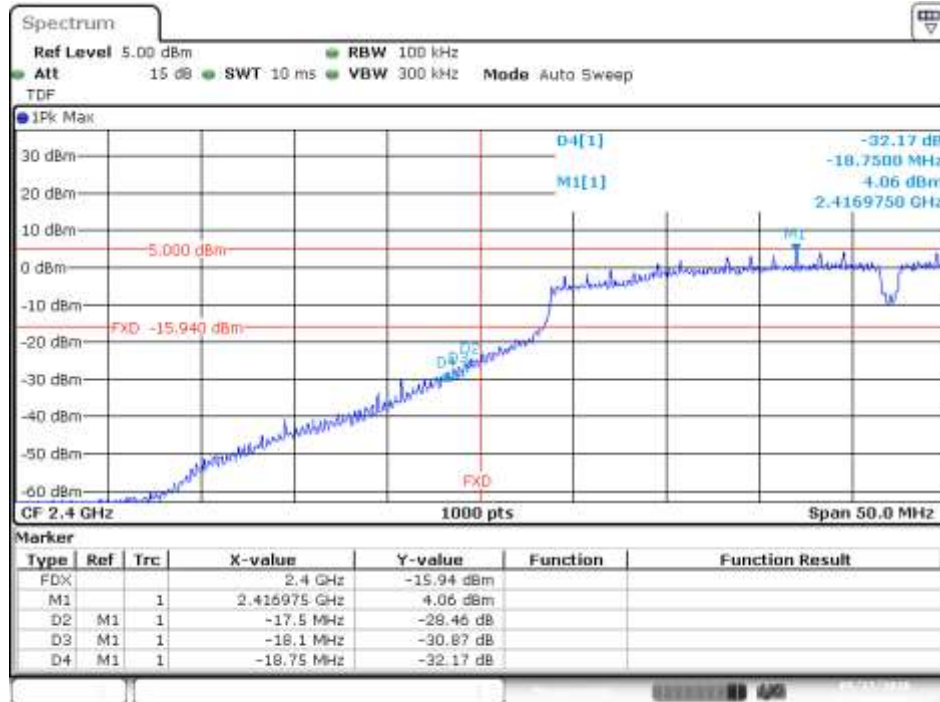
Date: 24 JUN 2016 17:23:38

BE High Freq Section RMS within 2MHz (restricted), Chain A – CH11F



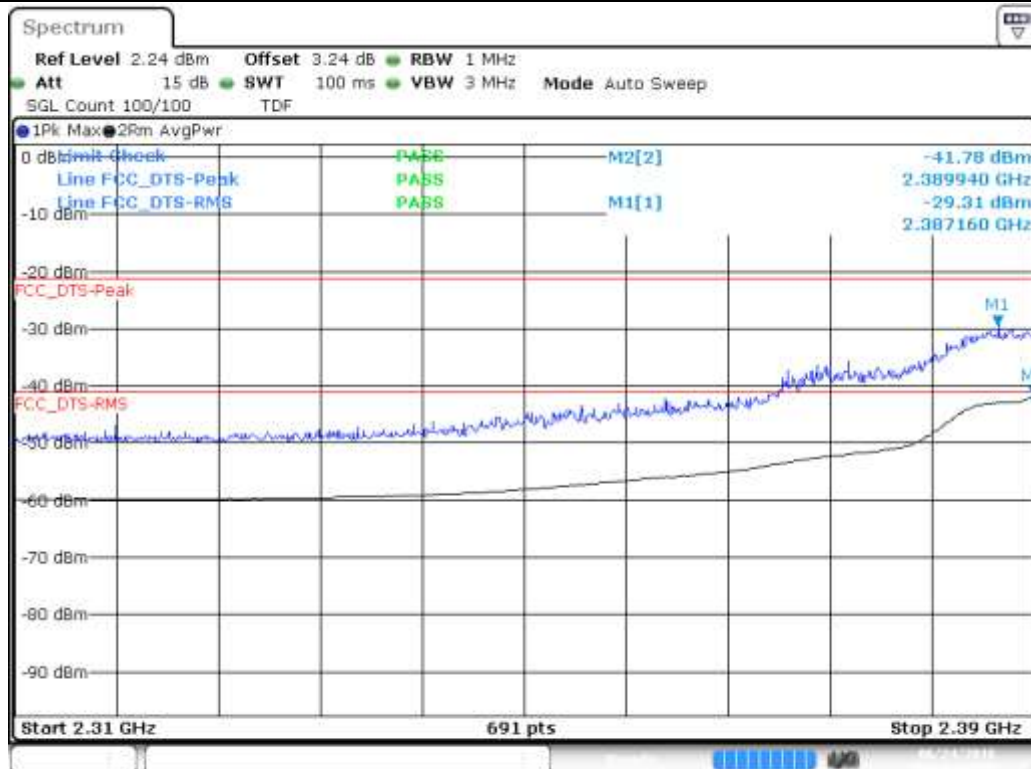
Date: 24 JUN 2016 17:22:35

BE Low Freq Section, Chain B – CH3F

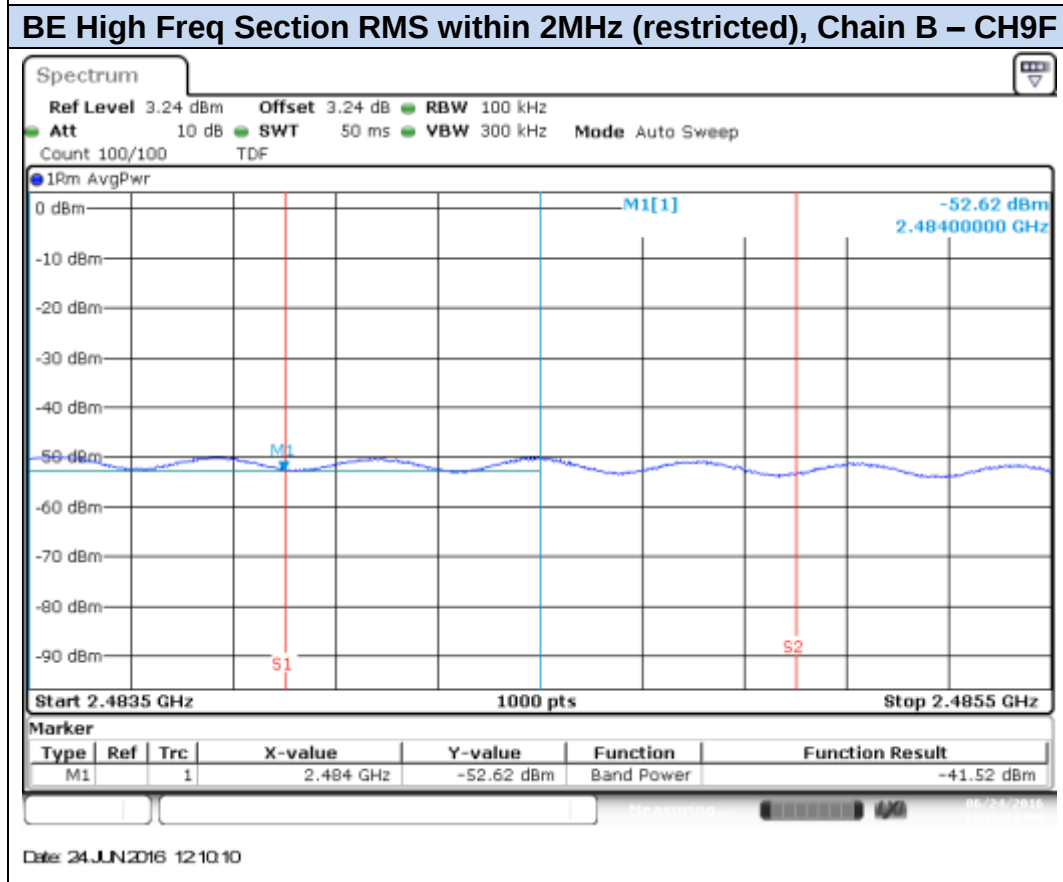
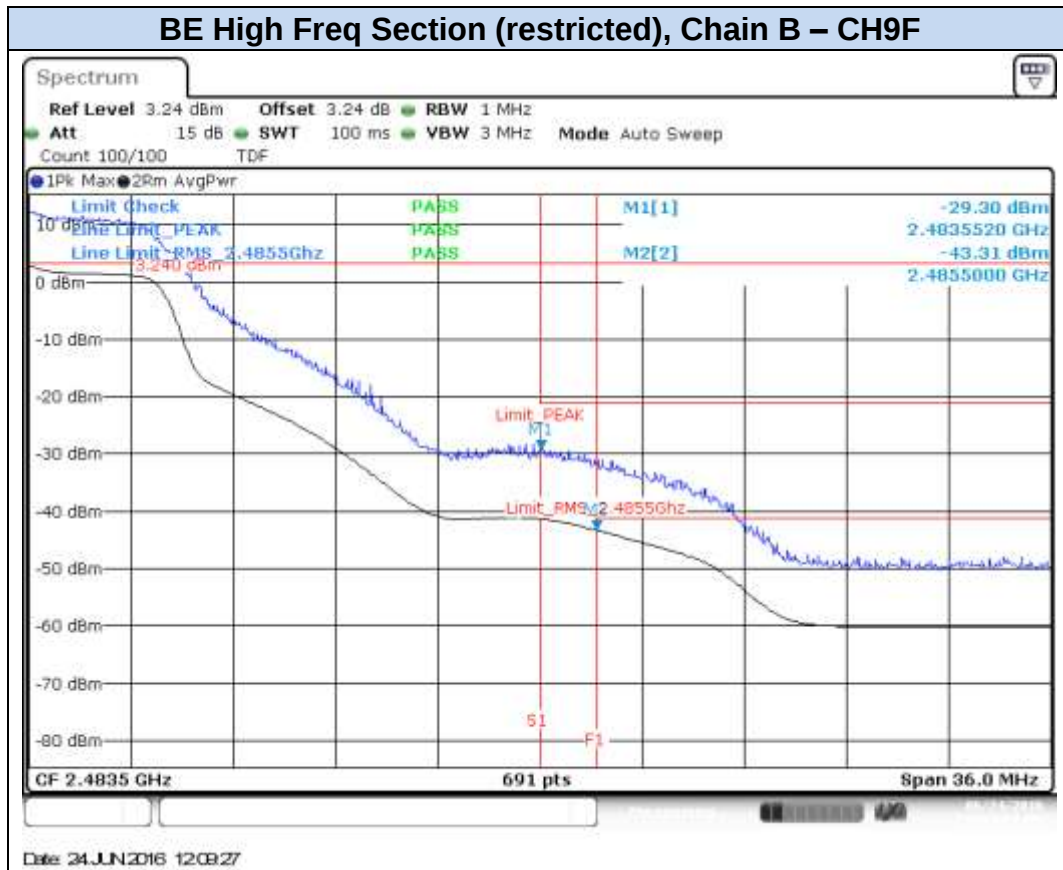


Date: 17.MAY.2016 19:28:59

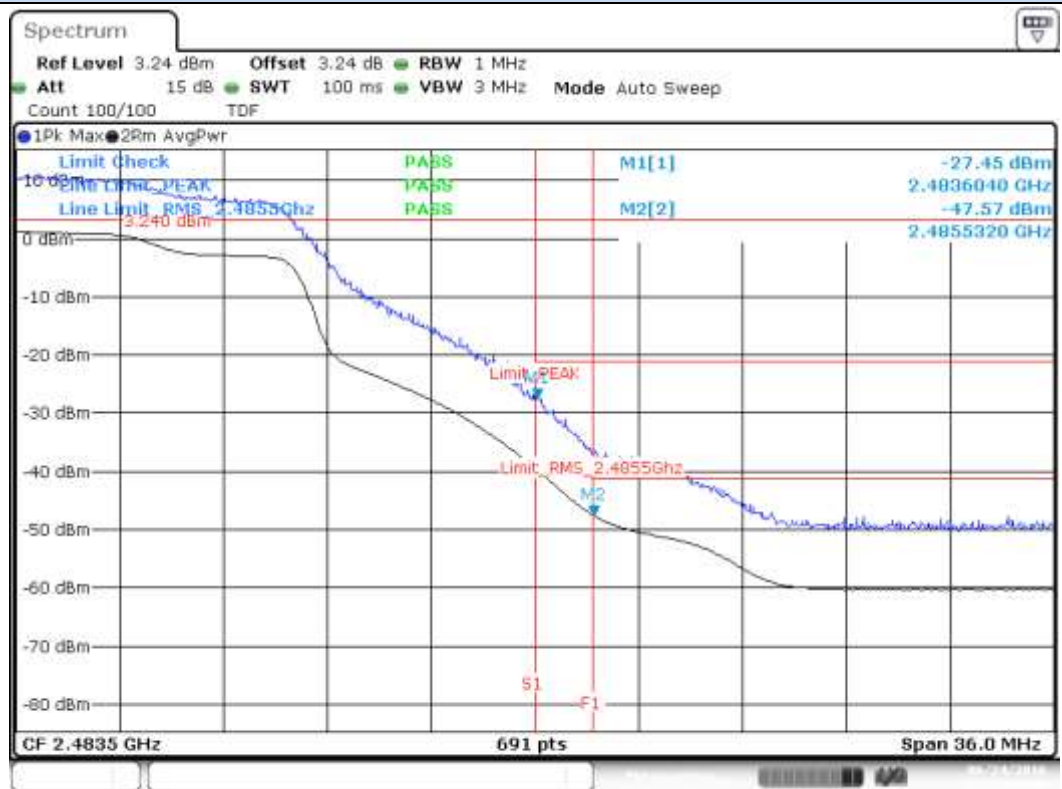
BE Low Freq Section (restricted), Chain B – CH3F



Date: 24.JUN.2016 18:46:04

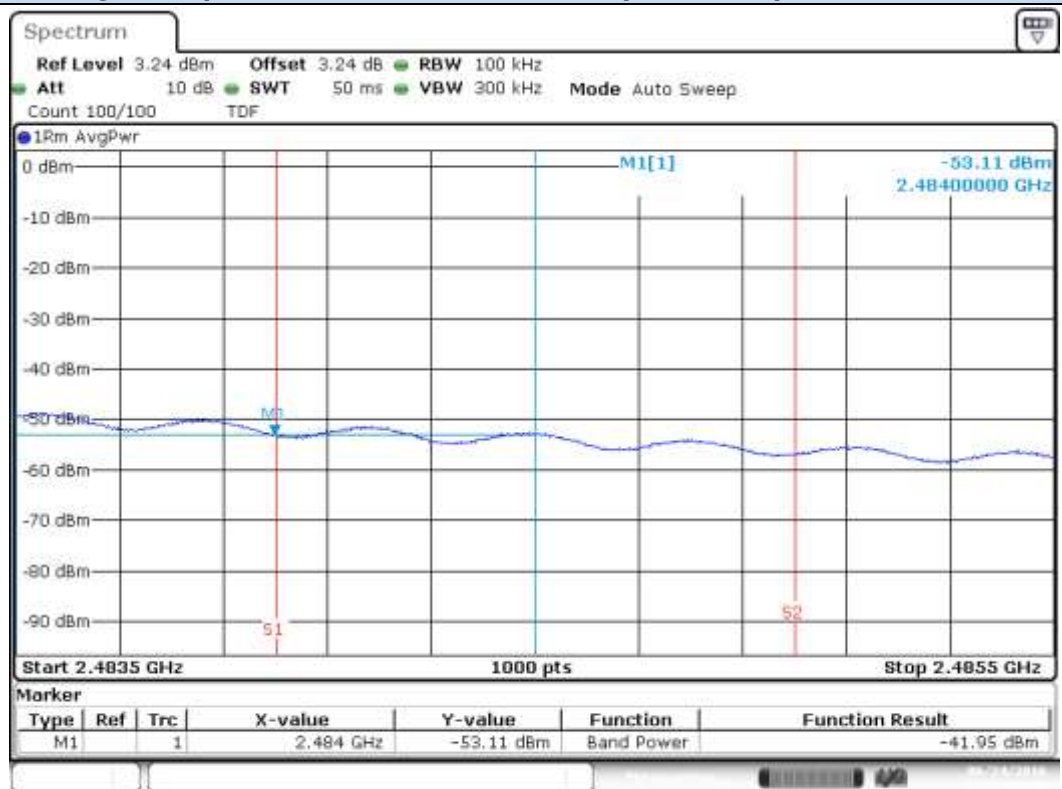


BE High Freq Section (restricted), Chain B – CH10F

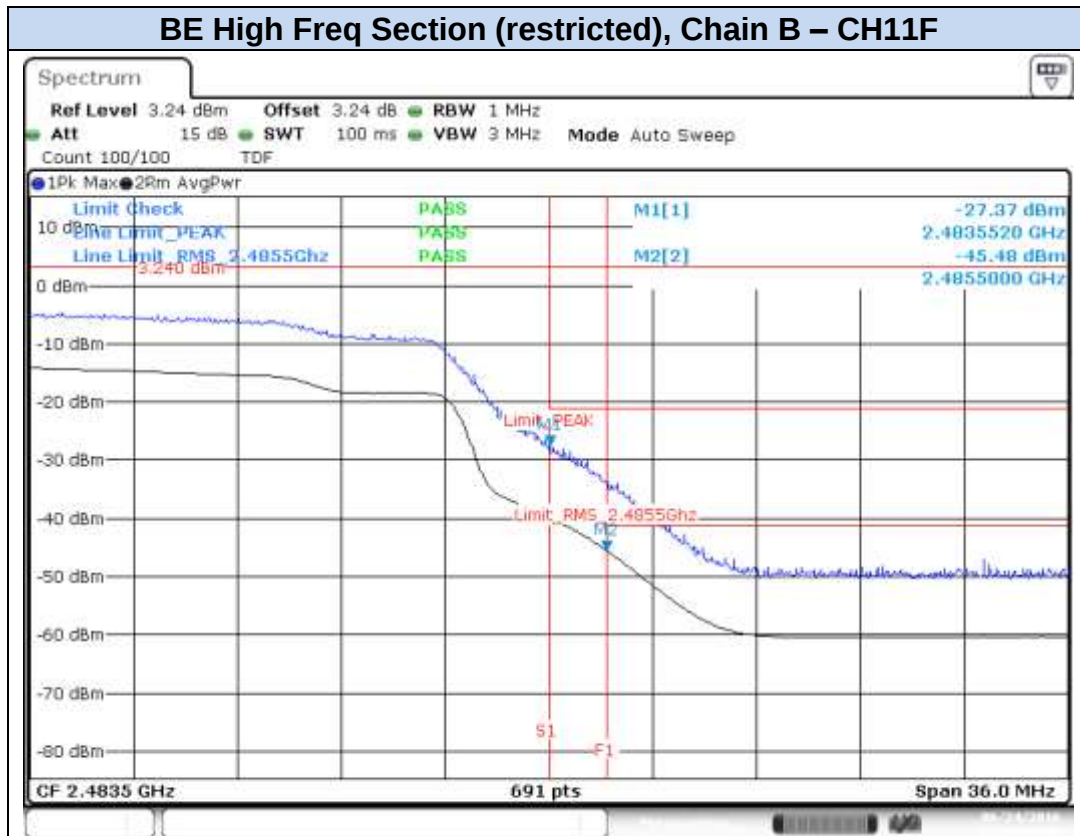


Date: 24 JUN 2016 12:12:27

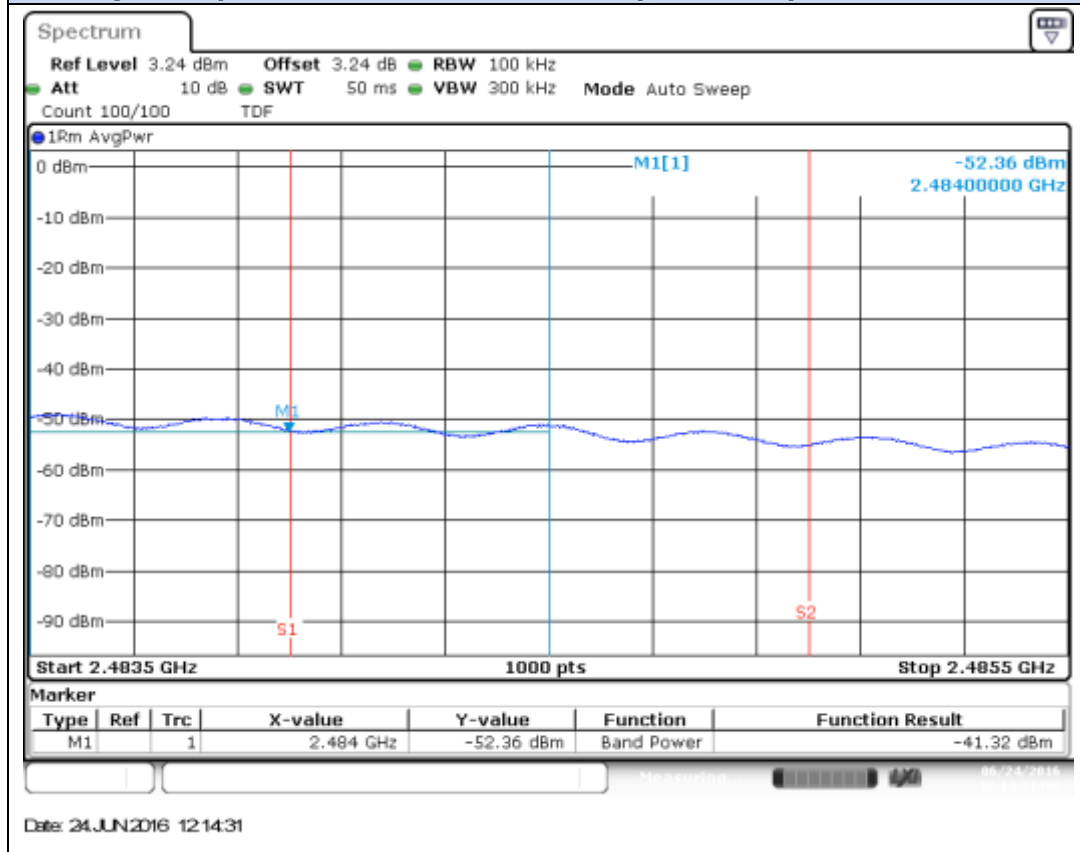
BE High Freq Section RMS within 2MHz(restricted), Chain B – CH10F



Date: 24 JUN 2016 12:11:38

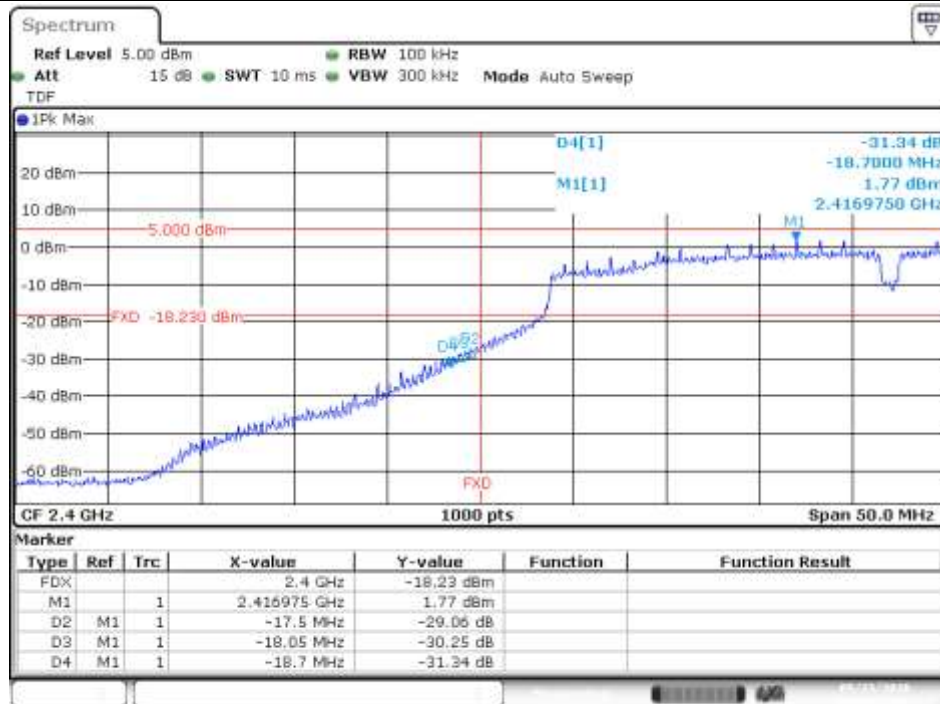


BE High Freq Section RMS within 2MHz (restricted), Chain B – CH11F



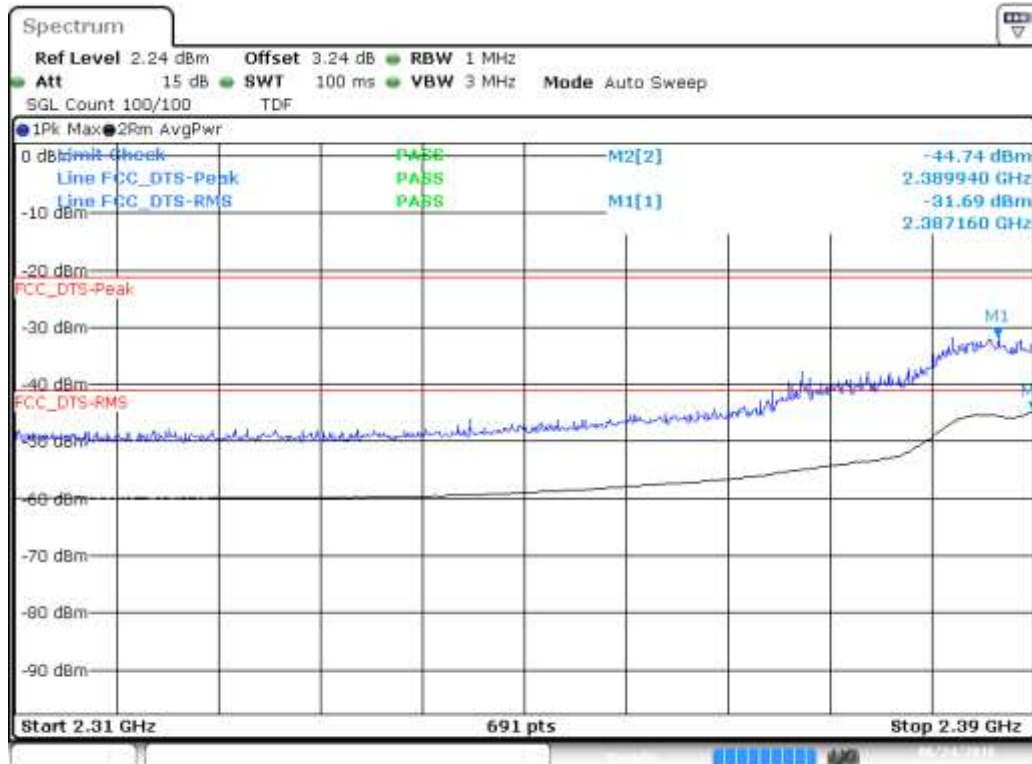
802.11n40 (MIMO), HT8

BE Low Freq Section, Chain A – CH3F



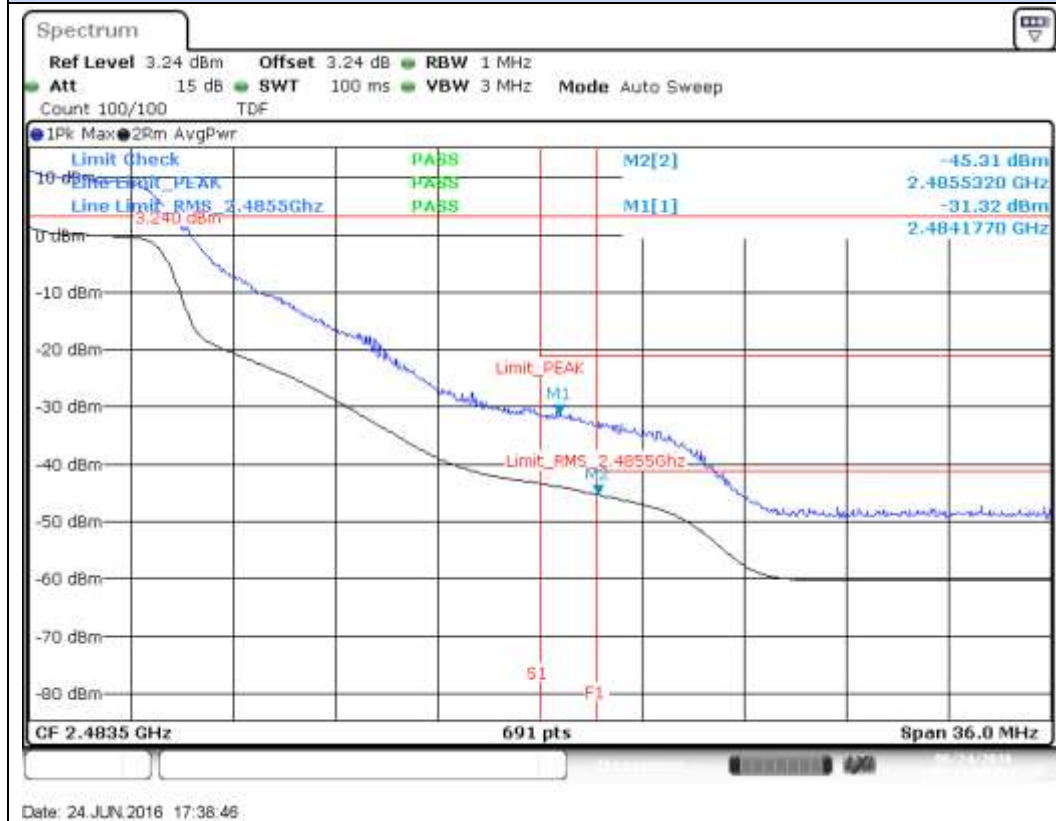
Date: 23.MAY.2016 09:54:34

BE Low Freq Section (restricted), Chain A – CH3F

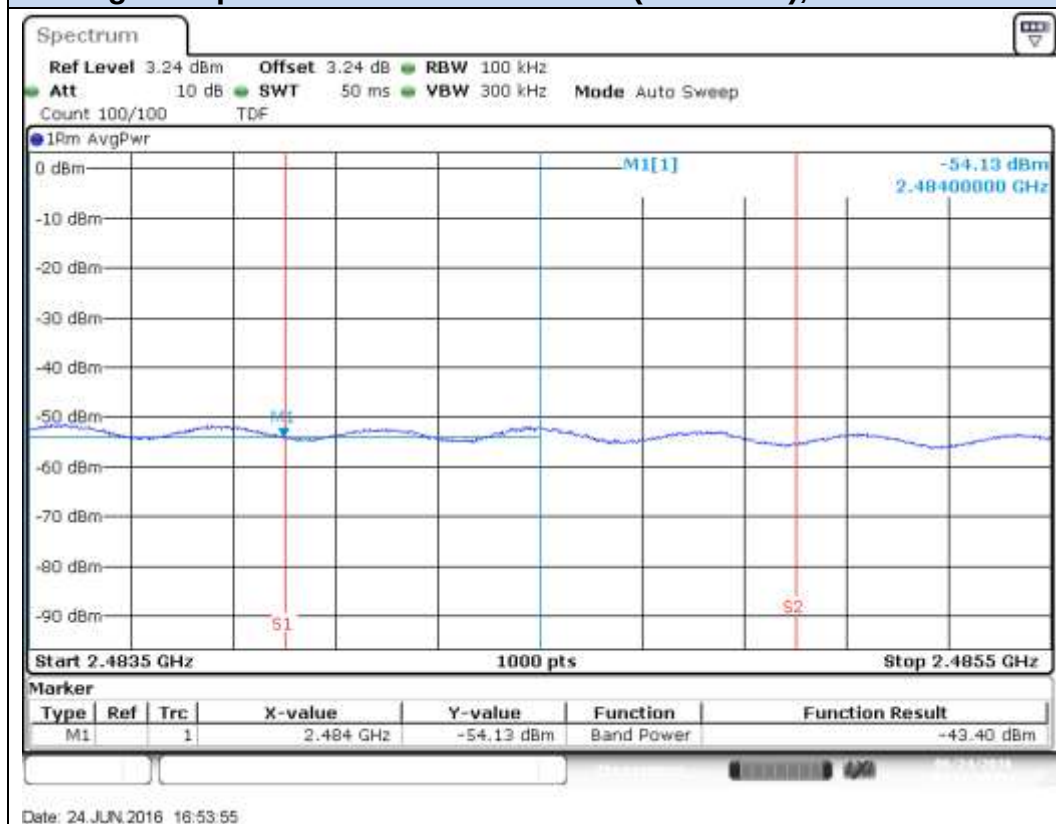


Date: 24.JUN.2016 18:24:13

BE High Freq Section (restricted), Chain A – CH9F



BE High Freq Section RMS within 2MHz (restricted), Chain A – CH9F

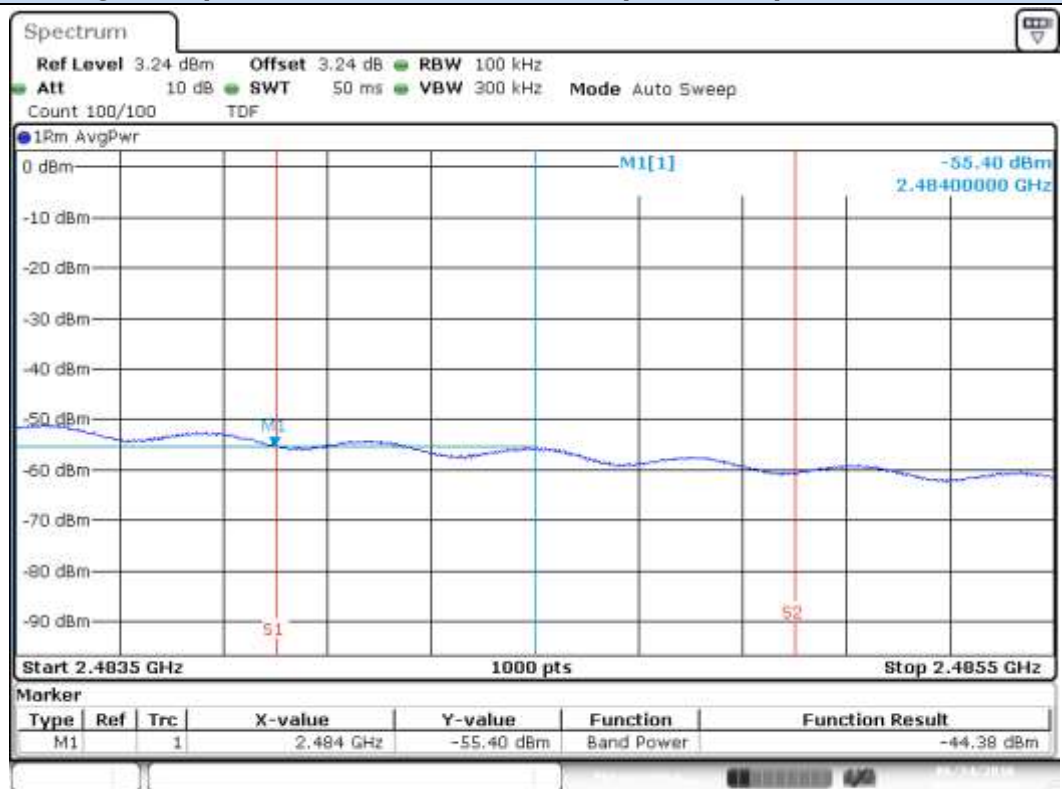


BE High Freq Section (restricted), Chain A – CH10F

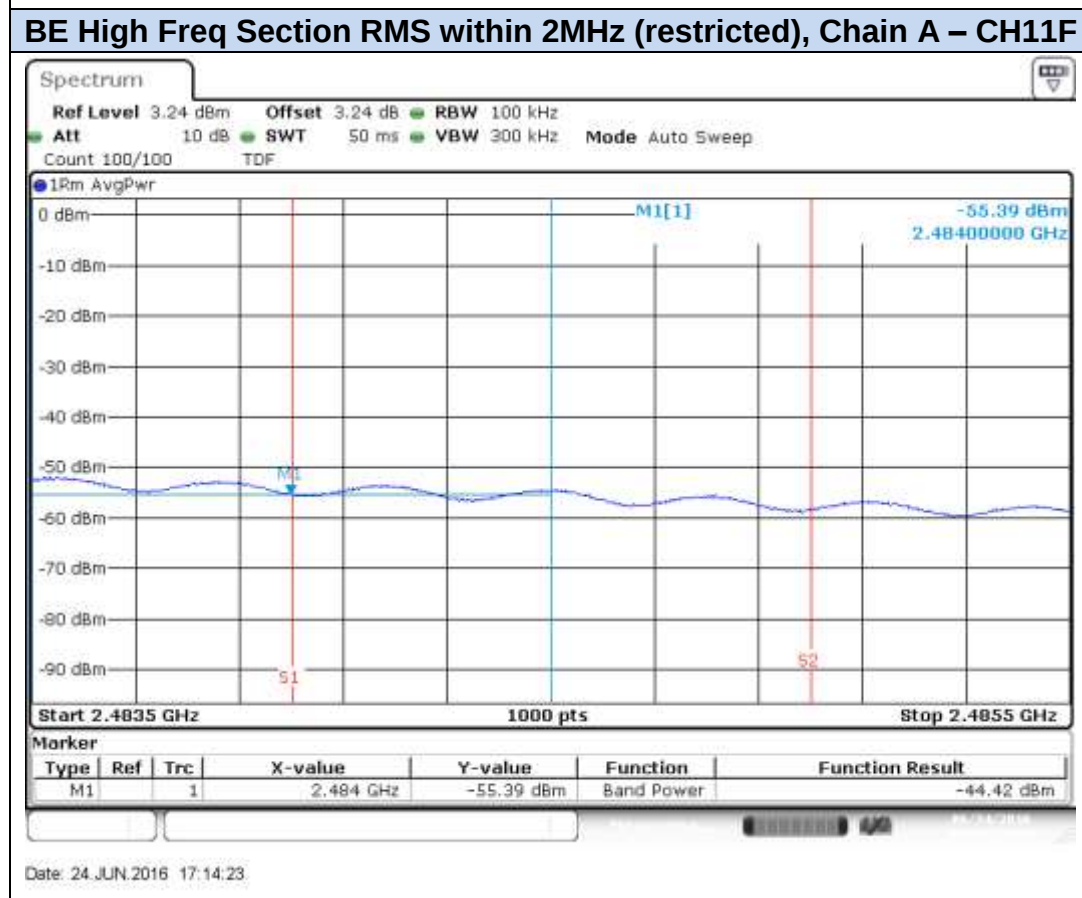
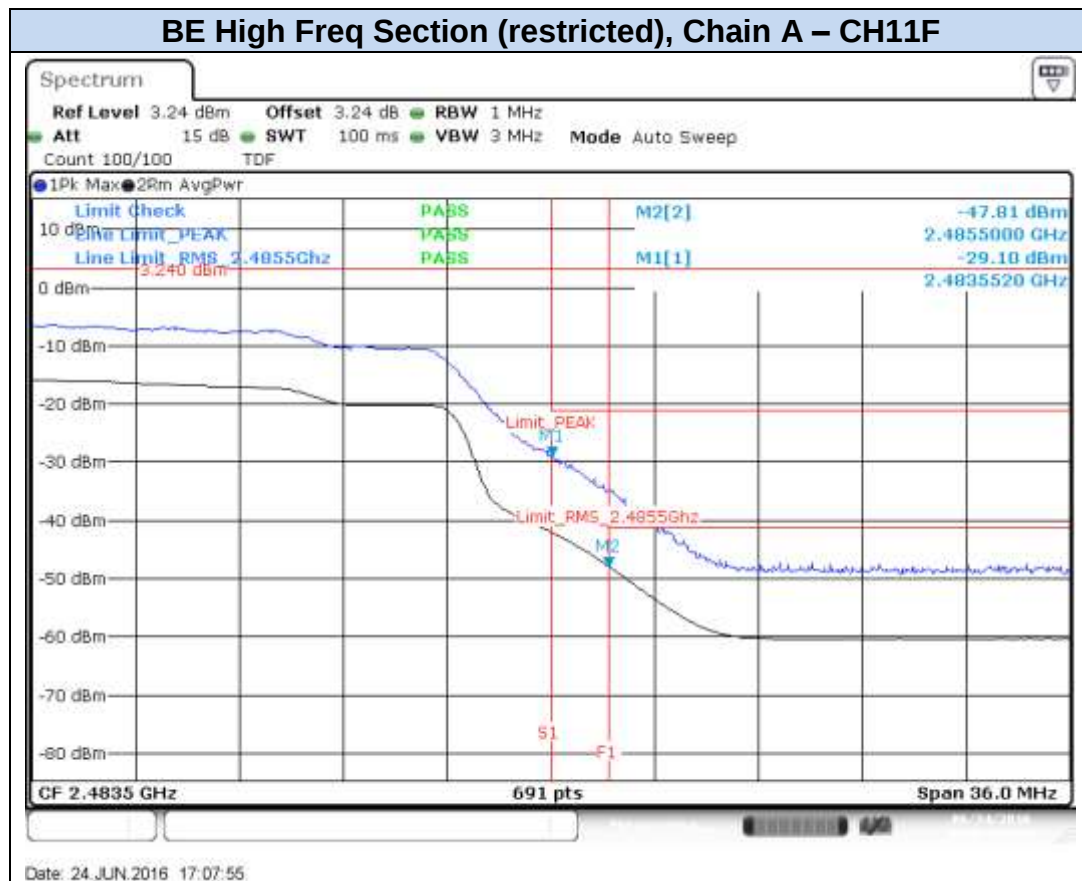


Date: 24 JUN 2016 17:02:16

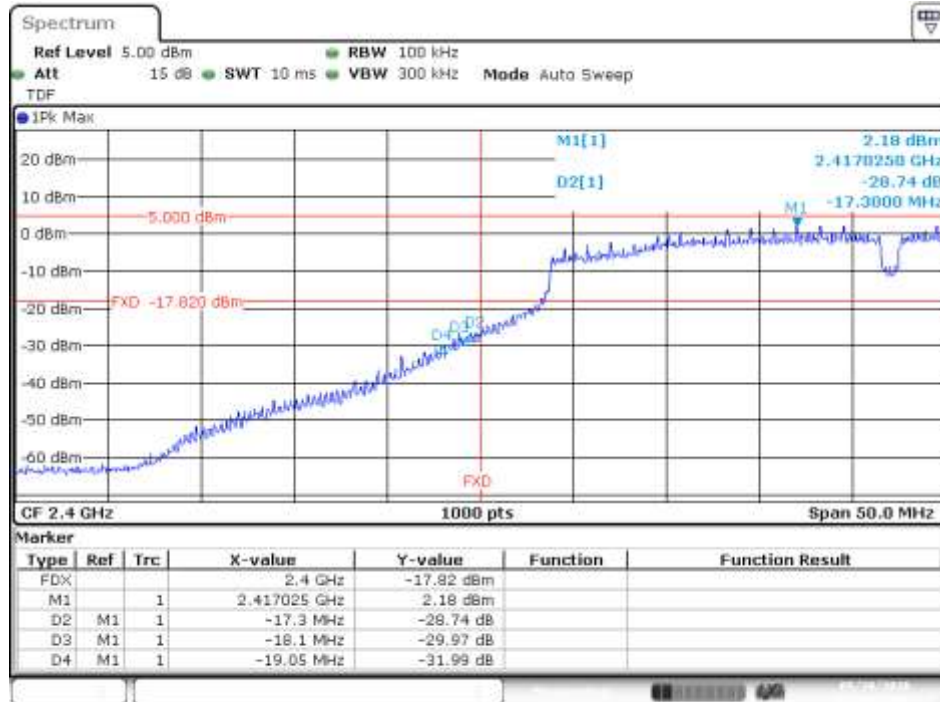
BE High Freq Section RMS within 2MHz(restricted), Chain A – CH10F



Date: 24 JUN 2016 16:57:35

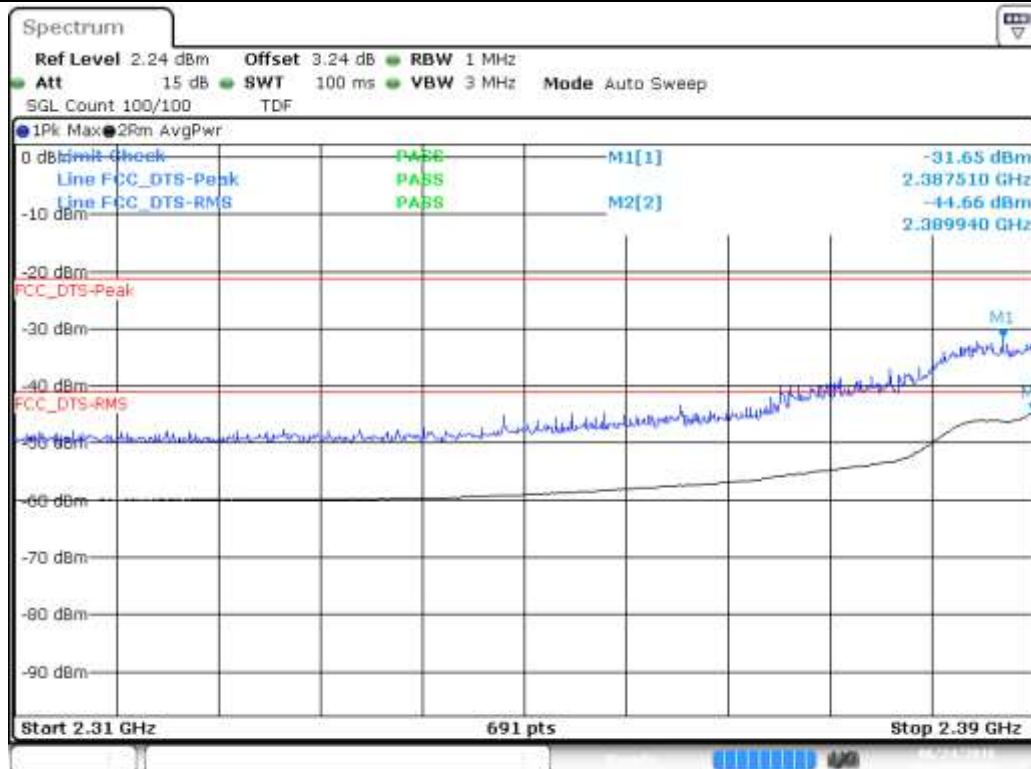


BE Low Freq Section, Chain B – CH3F

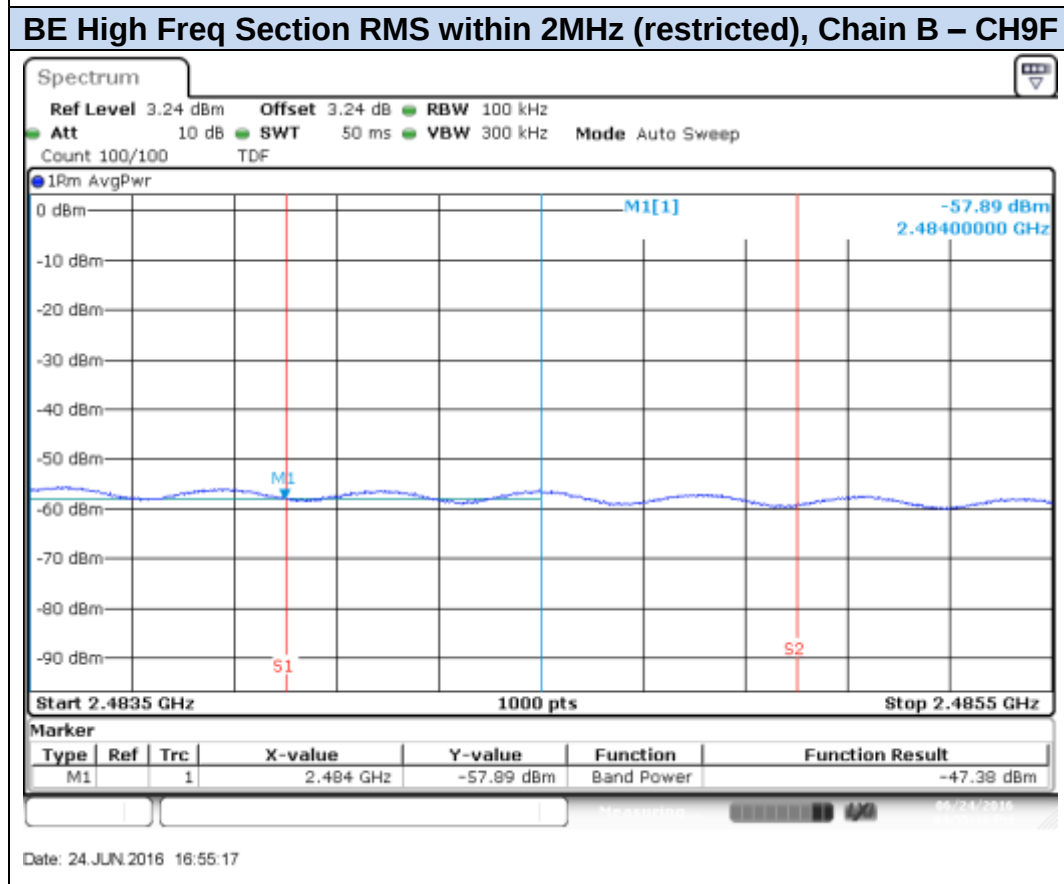
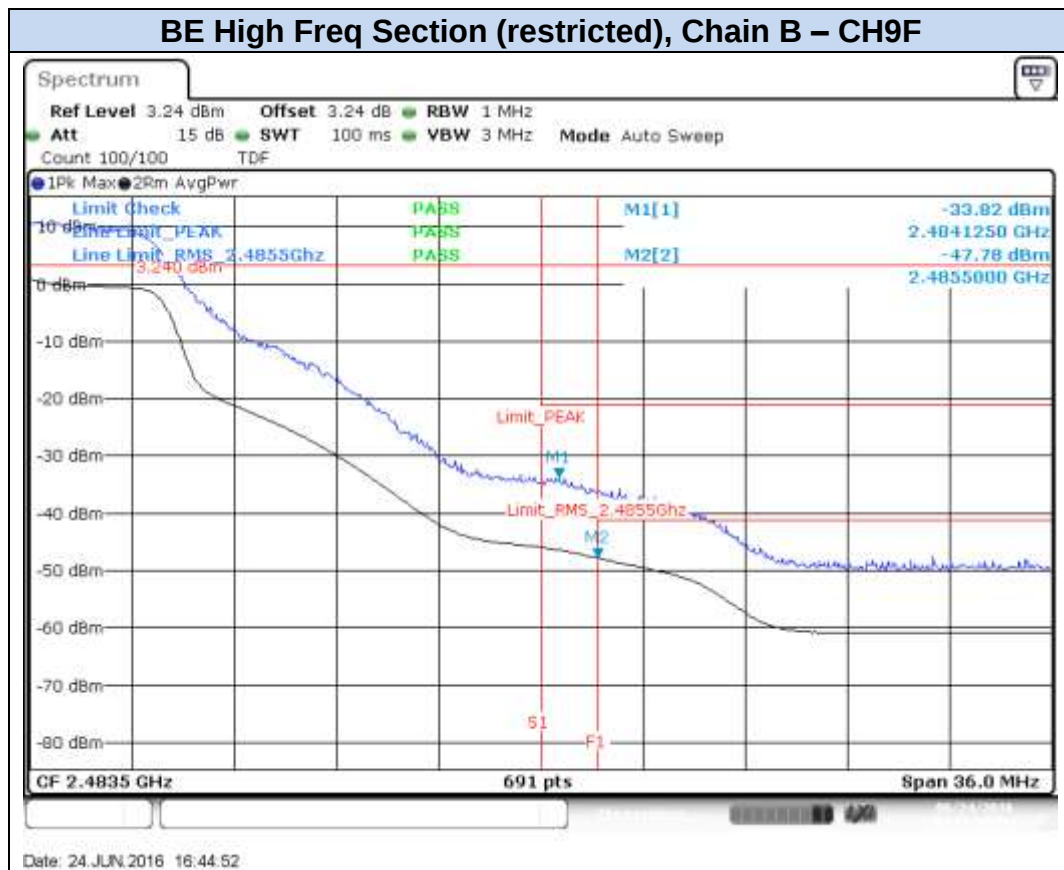


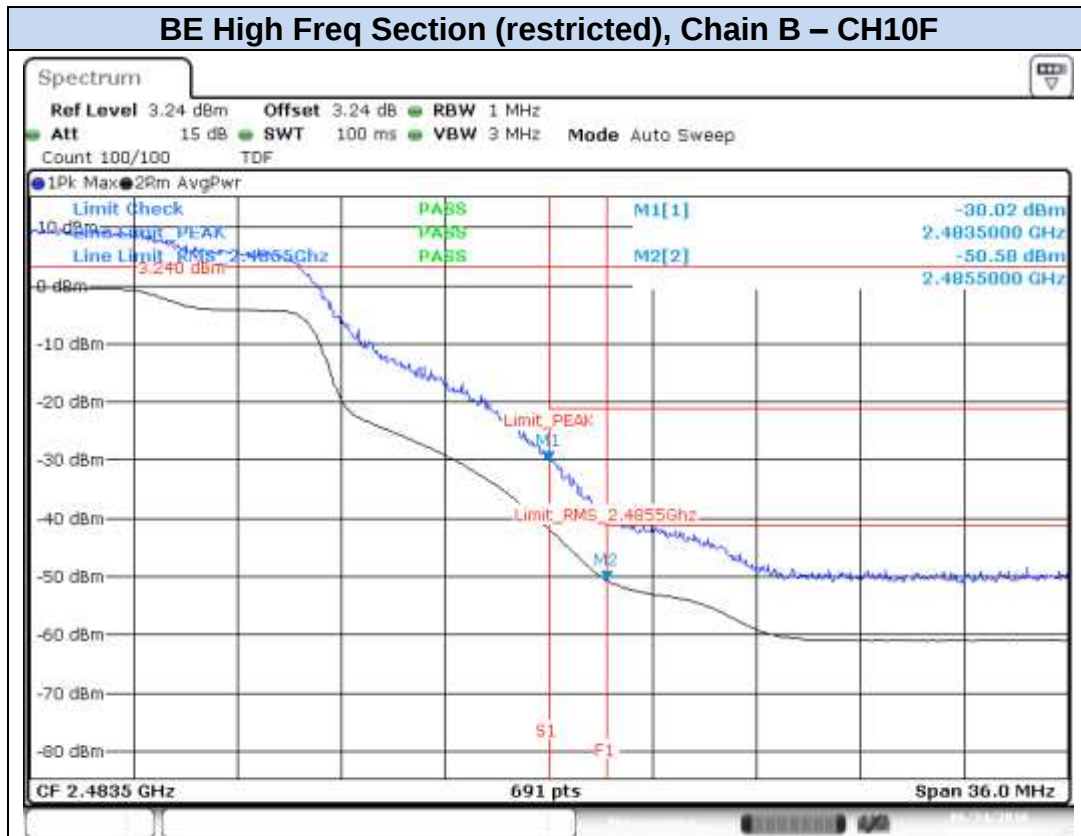
Date: 20.MAY.2016 11:18:17

BE Low Freq Section, Chain B – CH3F



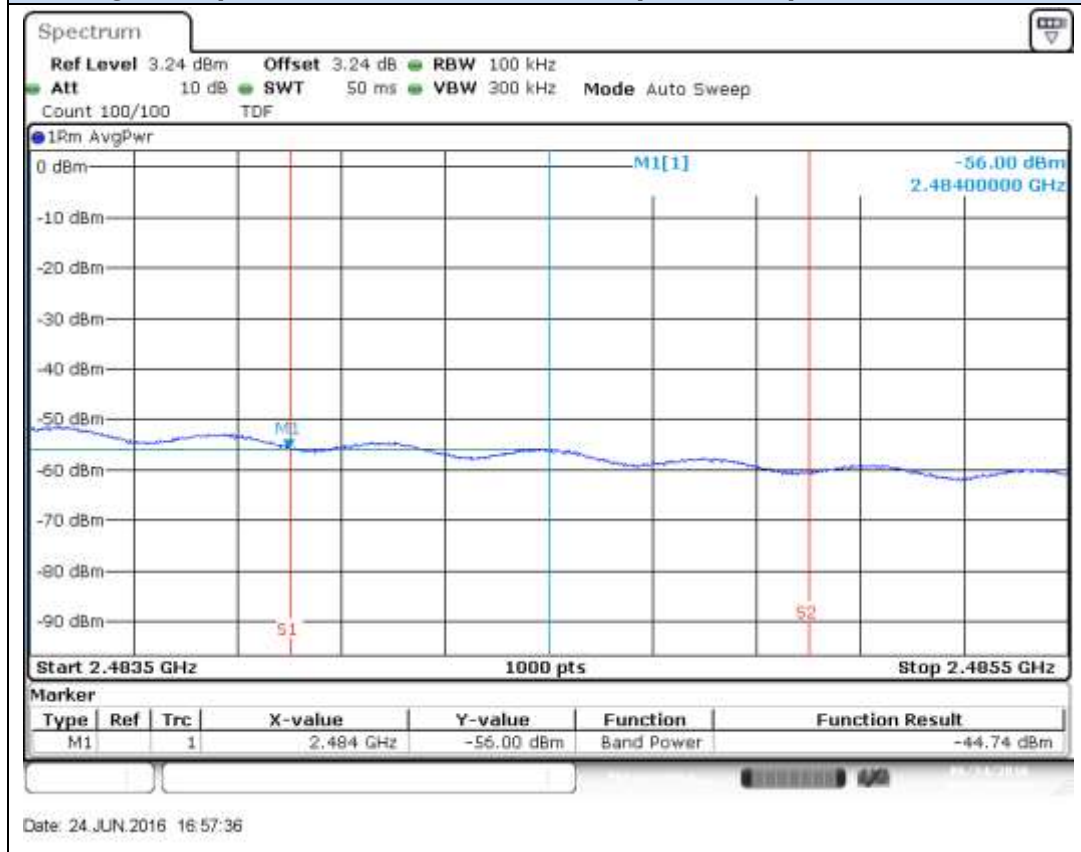
Date: 24.JUN.2016 18:38:33

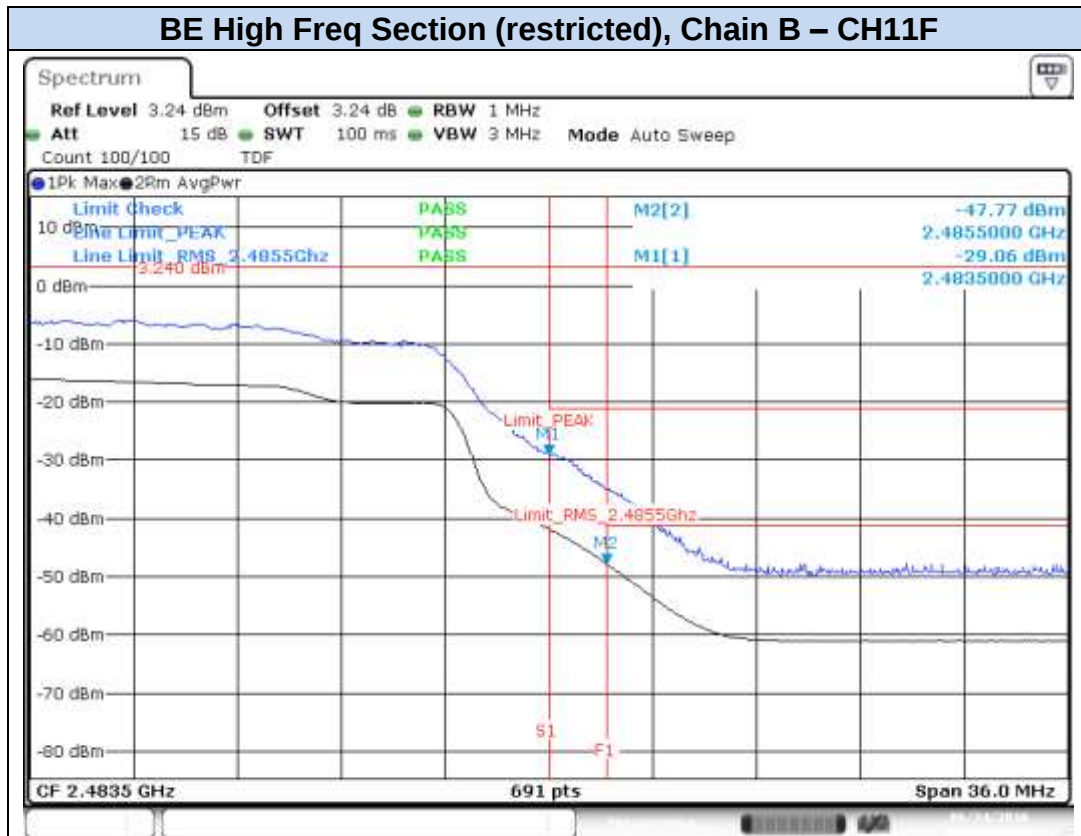




Date: 24.JUN.2016 17:00:28

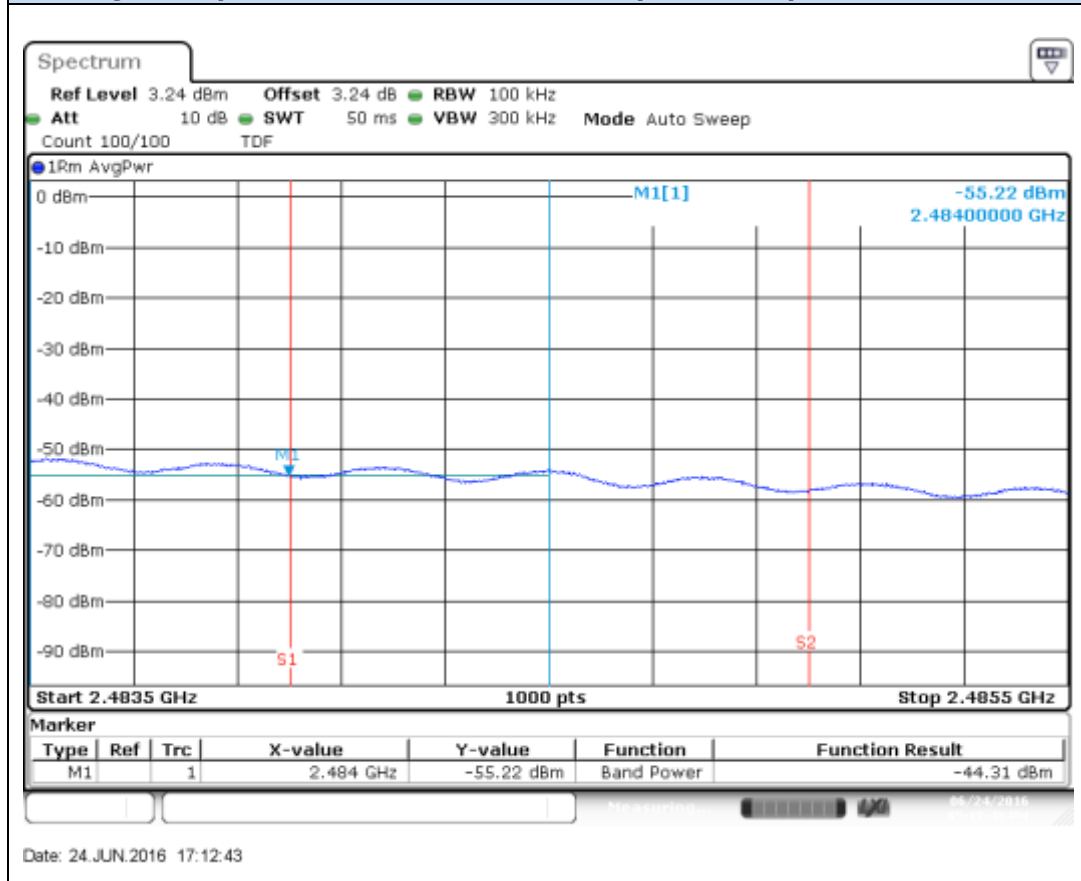
BE High Freq Section RMS within 2MHz(restricted), Chain B – CH10F





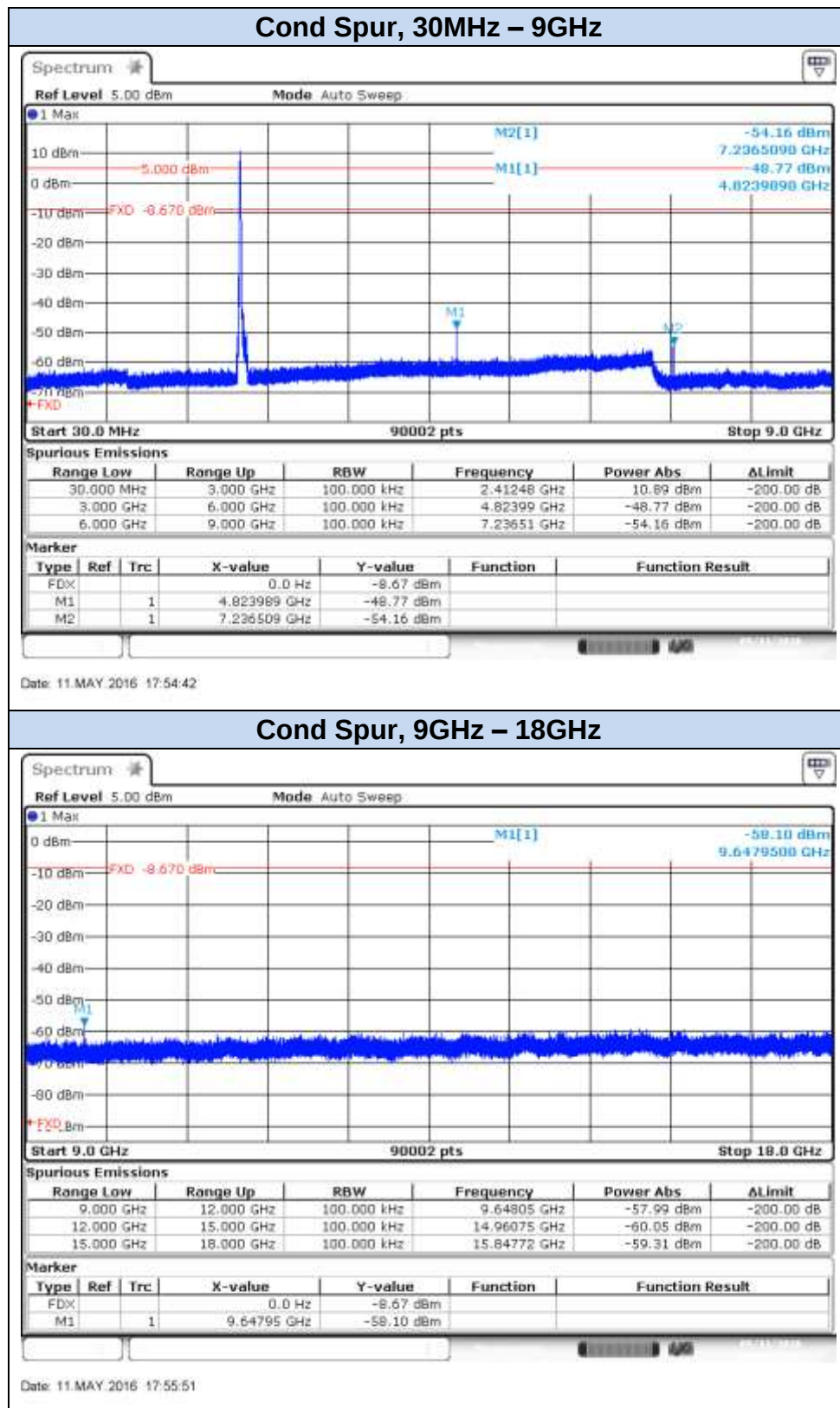
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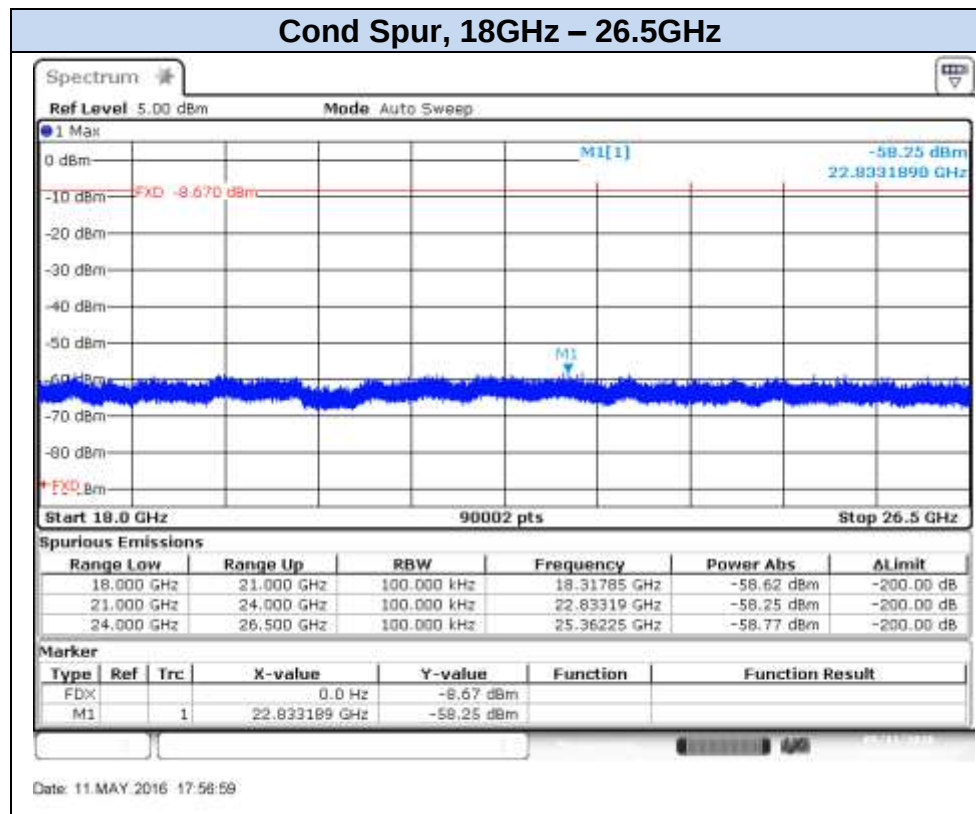
BE High Freq Section RMS within 2MHz (restricted), Chain B – CH11F



Conducted Spurious results Screenshot:

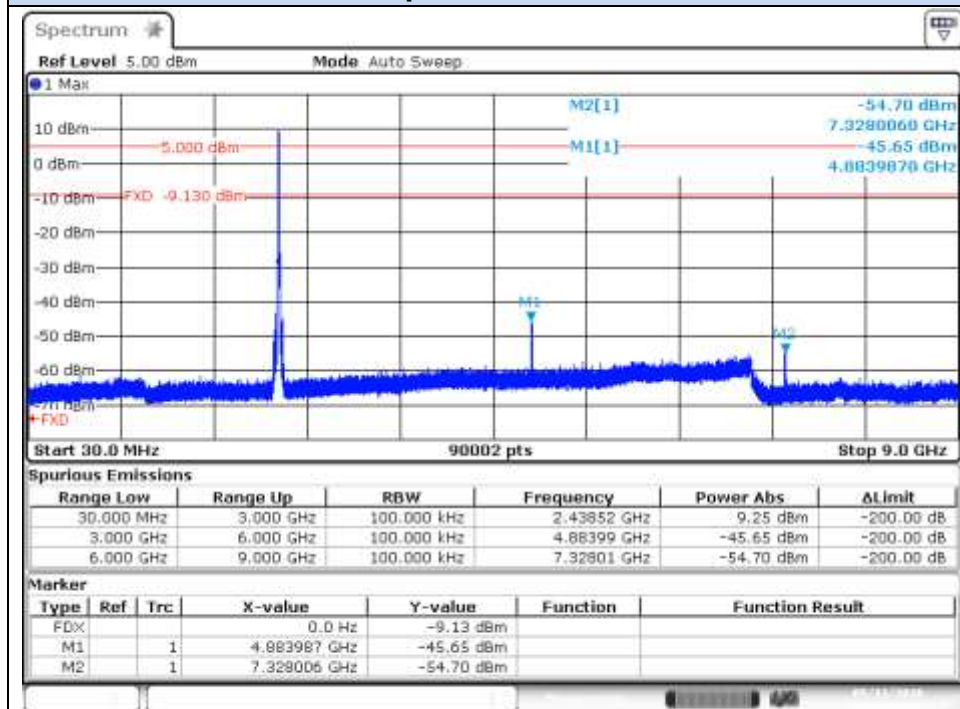
802.11b, 1Mbps – Chain A, CH1





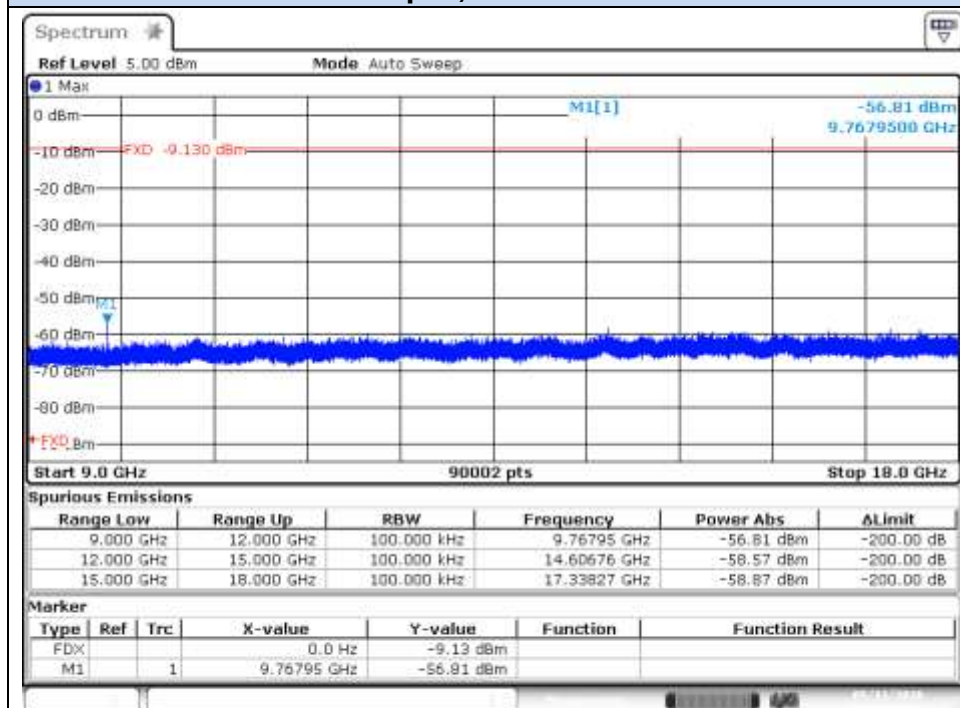
802.11b, 1Mbps – Chain A, CH7

Cond Spur, 30MHz – 9GHz

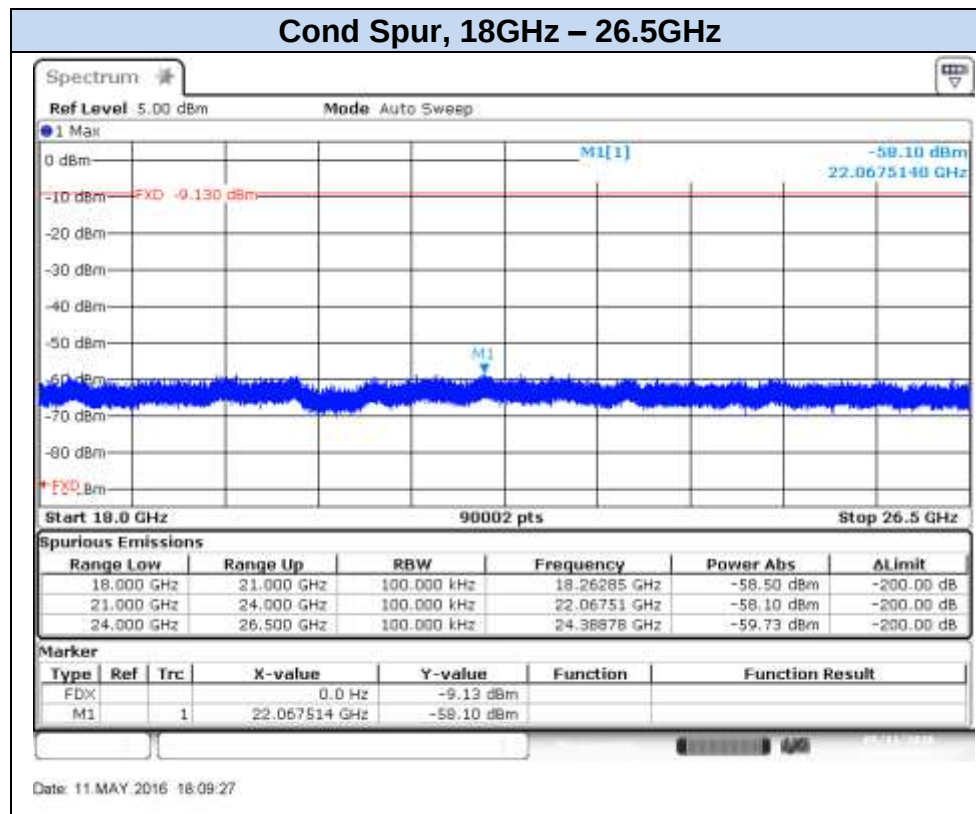


Date: 11.MAY.2016 18:08:54

Cond Spur, 9GHz – 18GHz

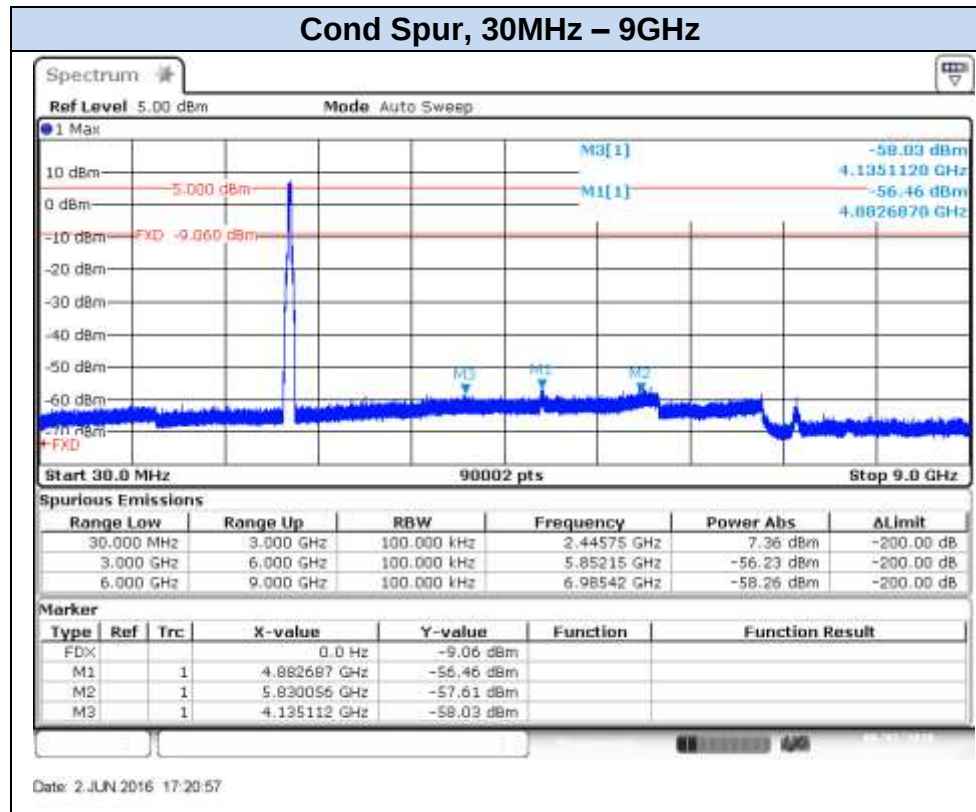


Date: 11.MAY.2016 18:08:15

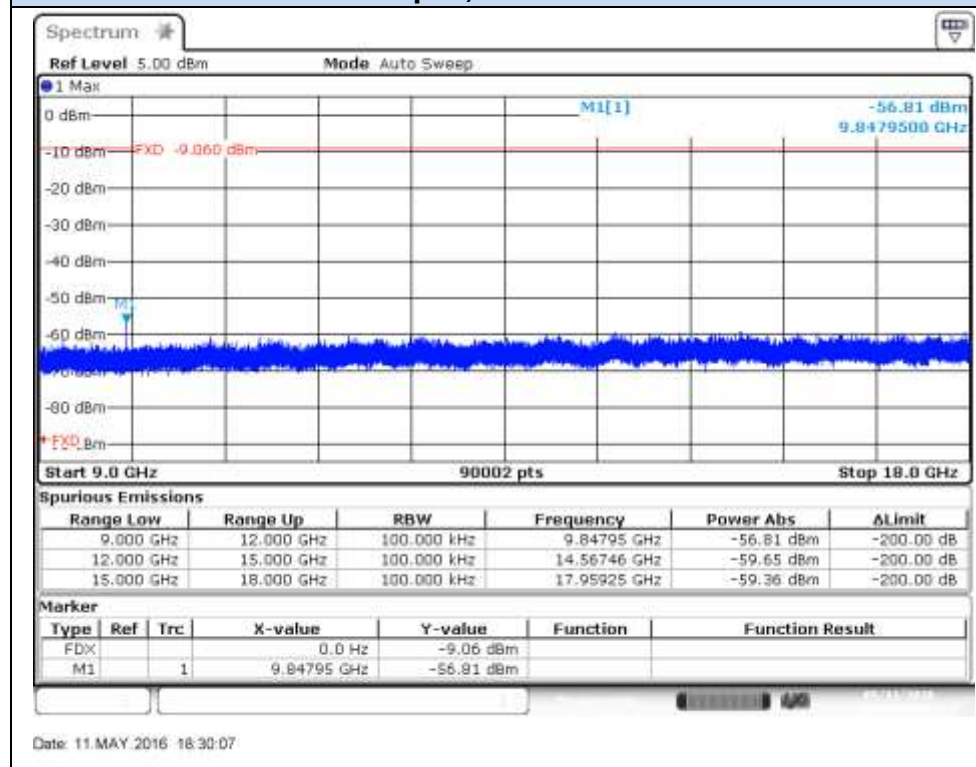


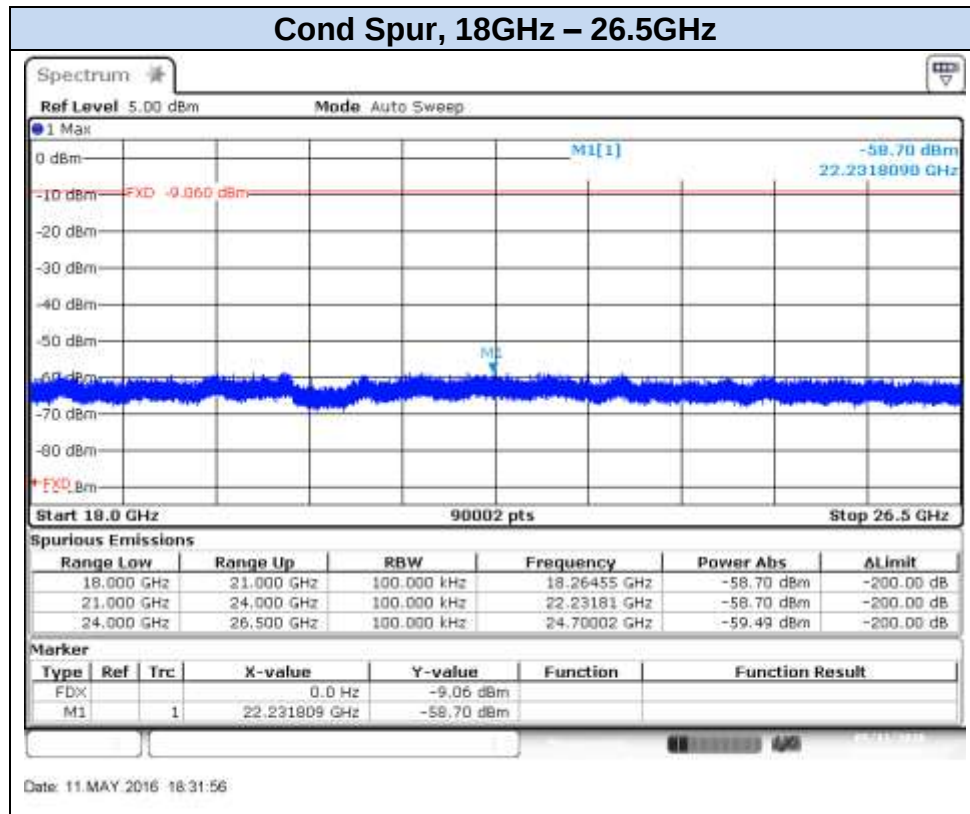
802.11b, 1Mbps – Chain A, CH11

Cond Spur, 30MHz – 9GHz



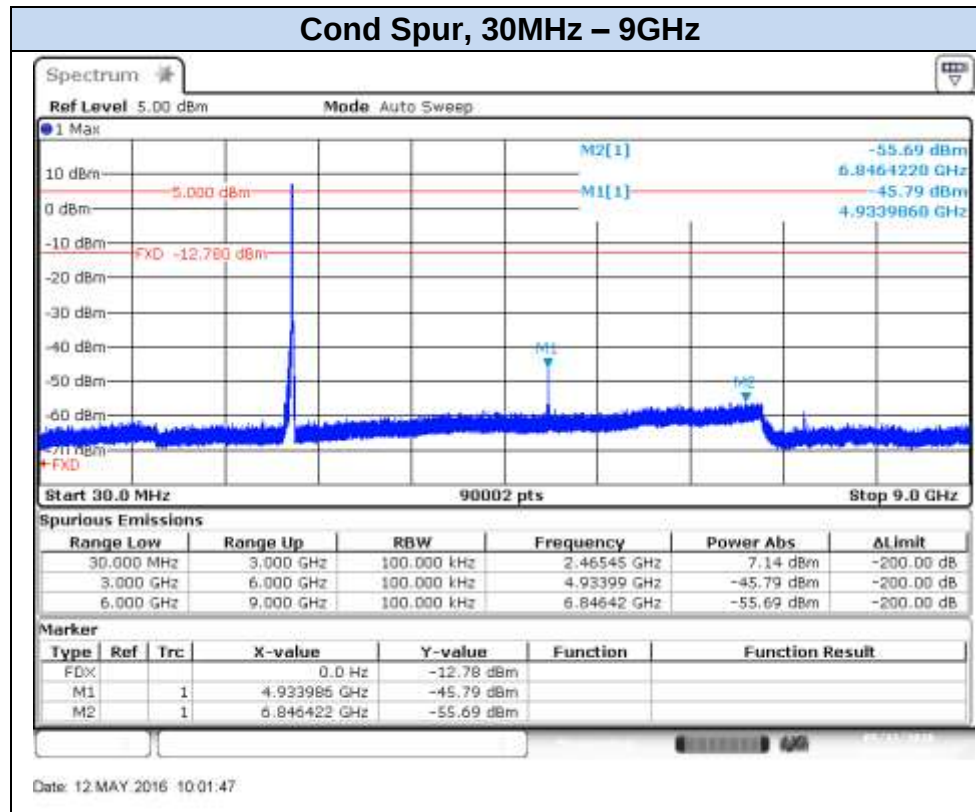
Cond Spur, 9GHz – 18GHz



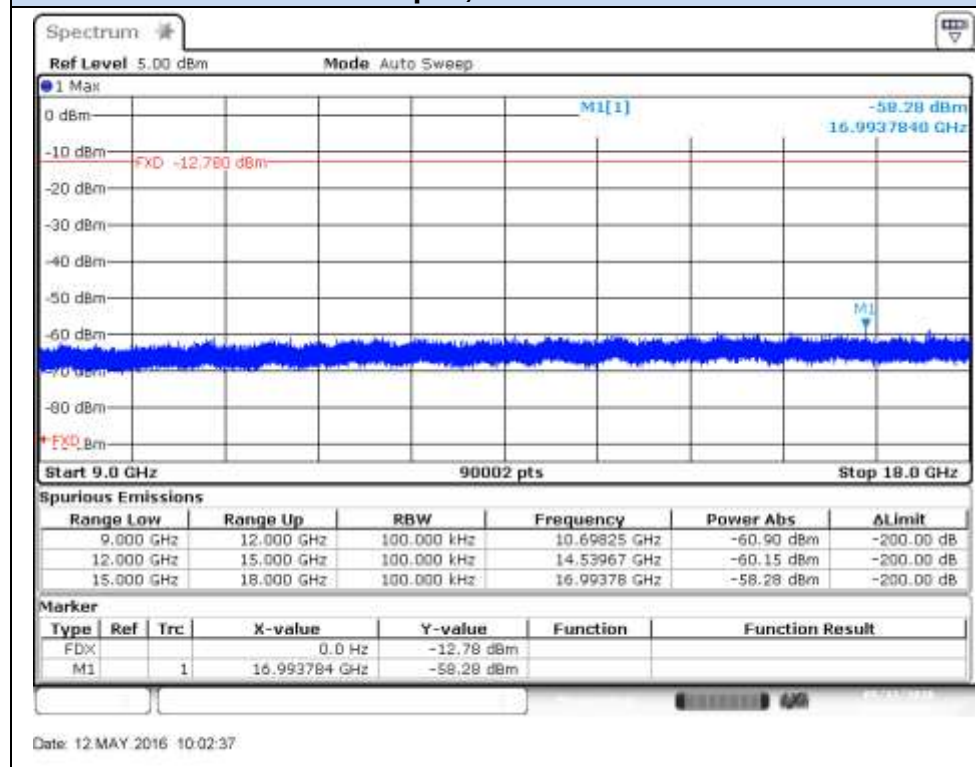


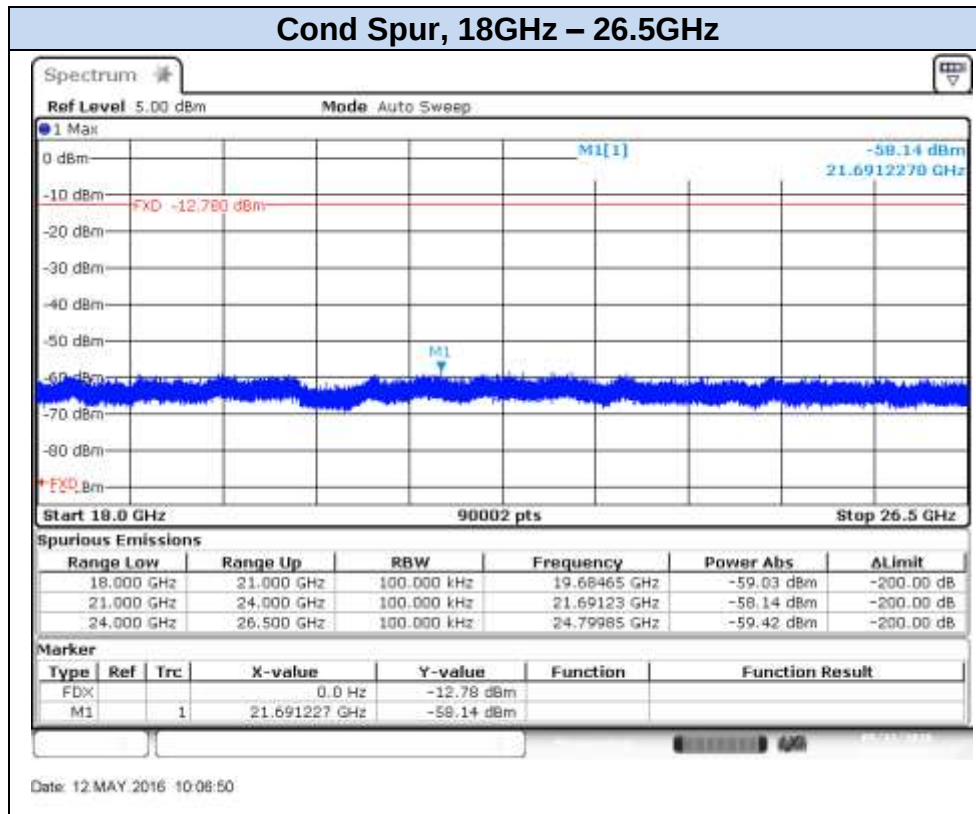
802.11b, 1Mbps – Chain A, CH12

Cond Spur, 30MHz – 9GHz



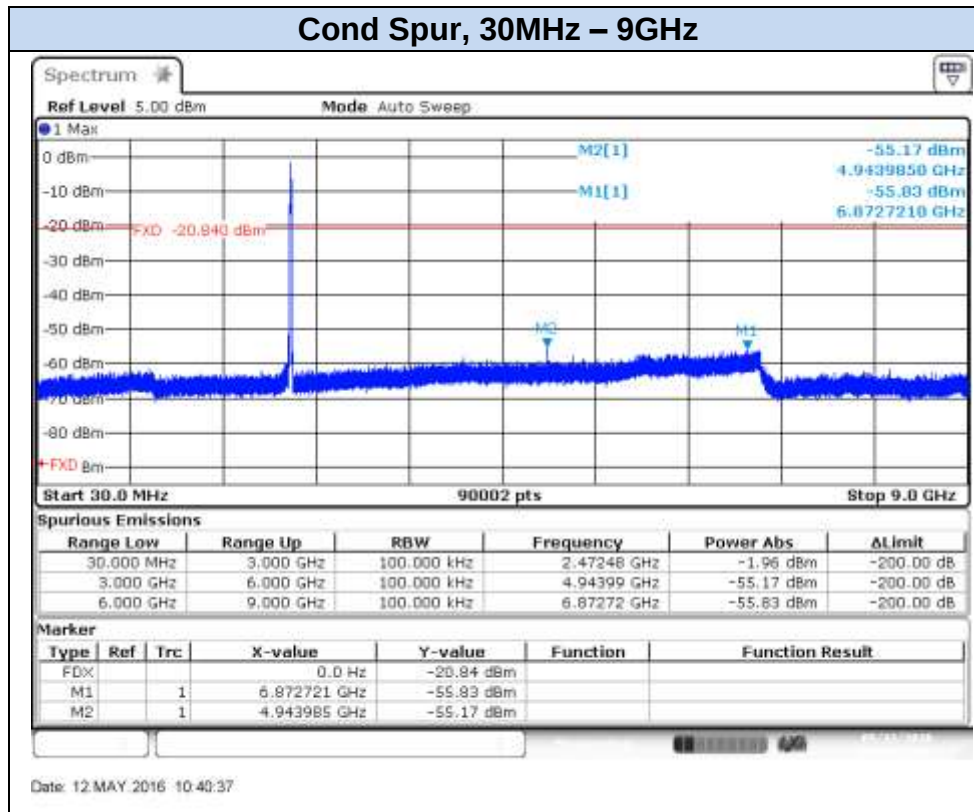
Cond Spur, 9GHz – 18GHz



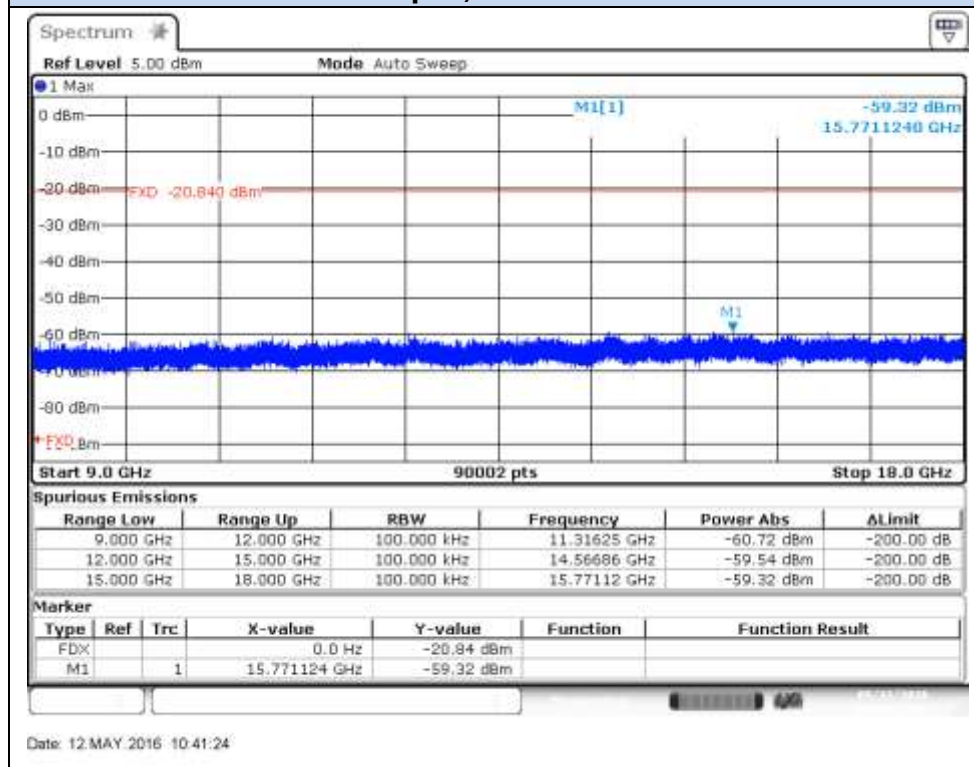


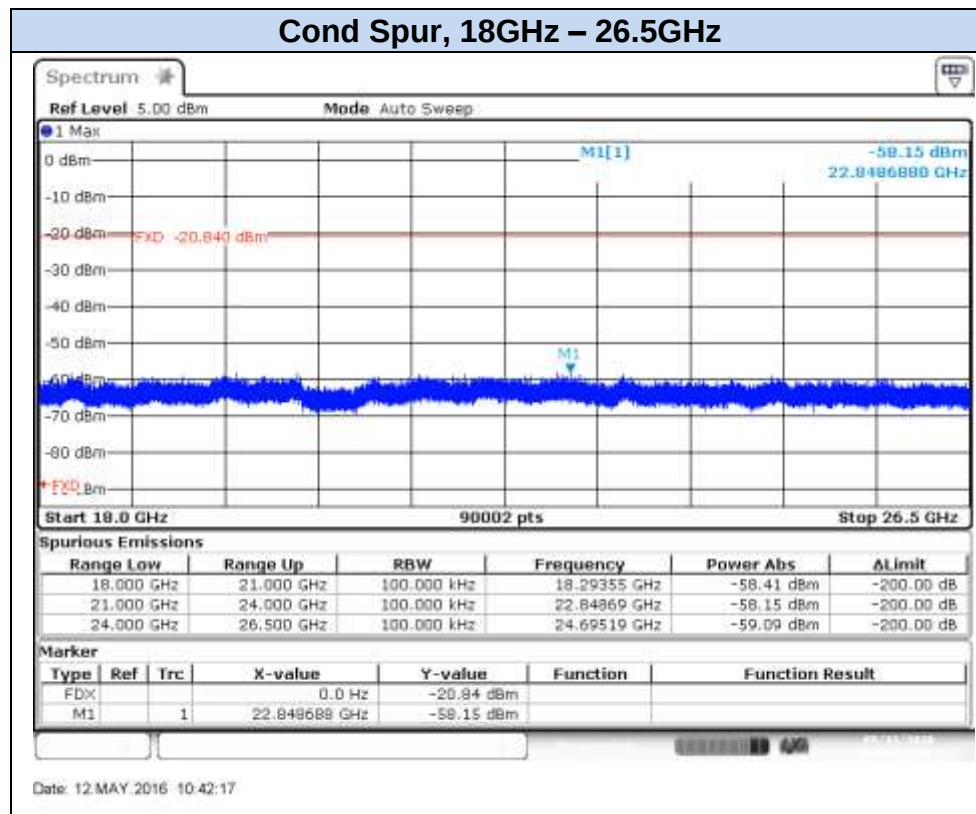
802.11b, 1Mbps – Chain A, CH13

Cond Spur, 30MHz – 9GHz



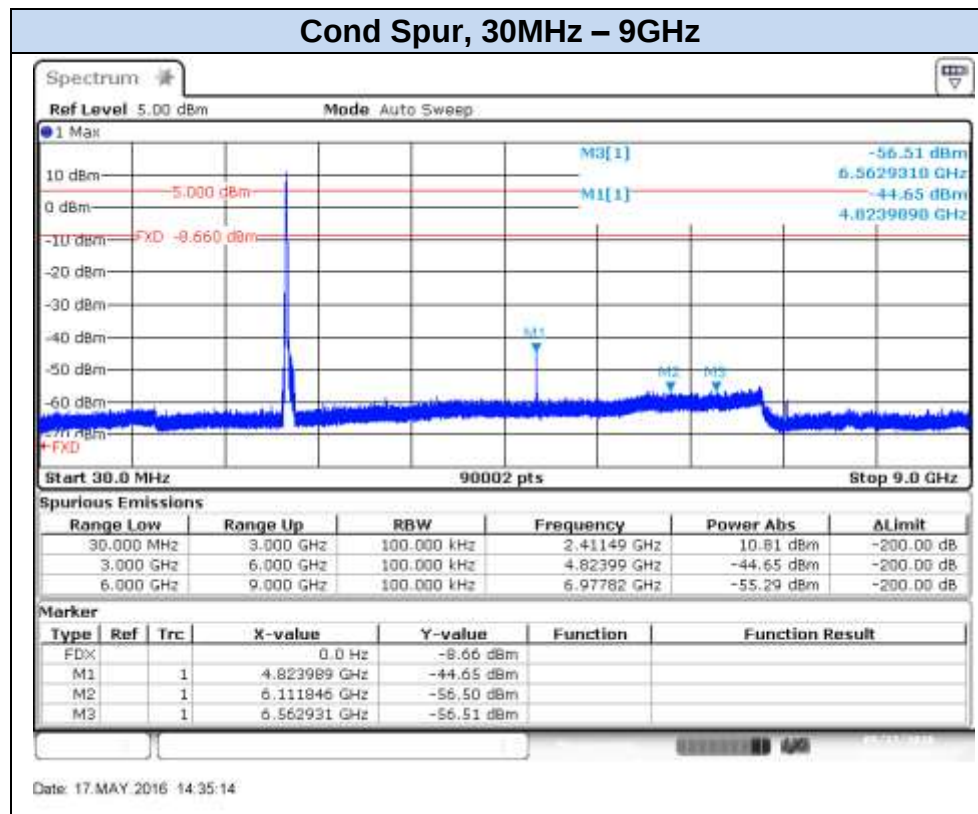
Cond Spur, 9GHz – 18GHz



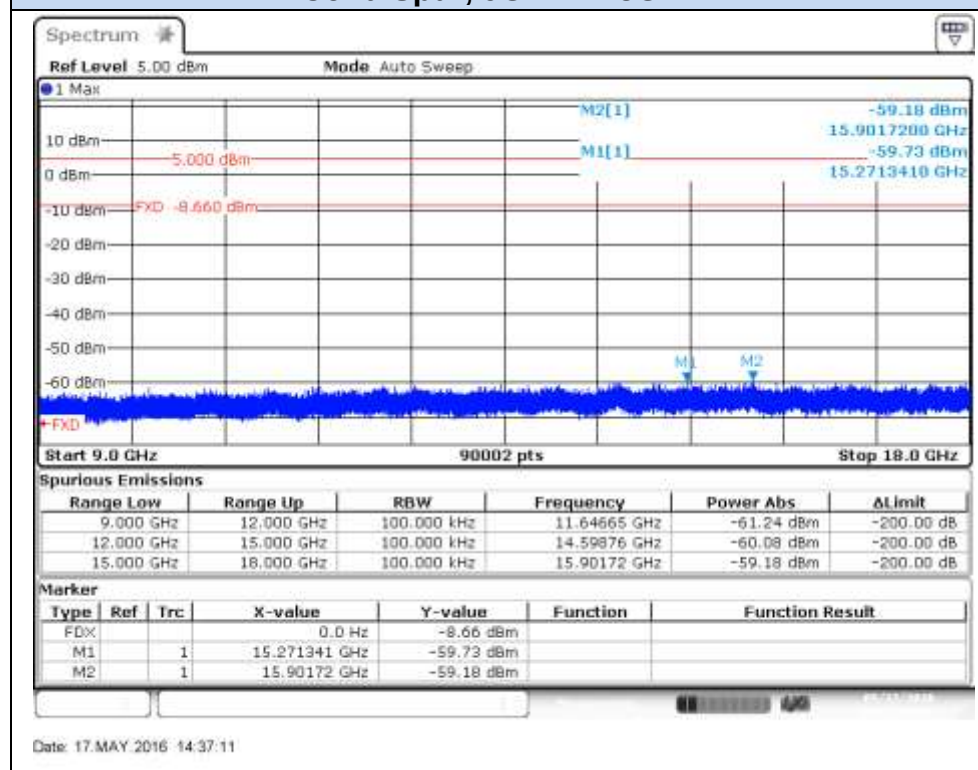


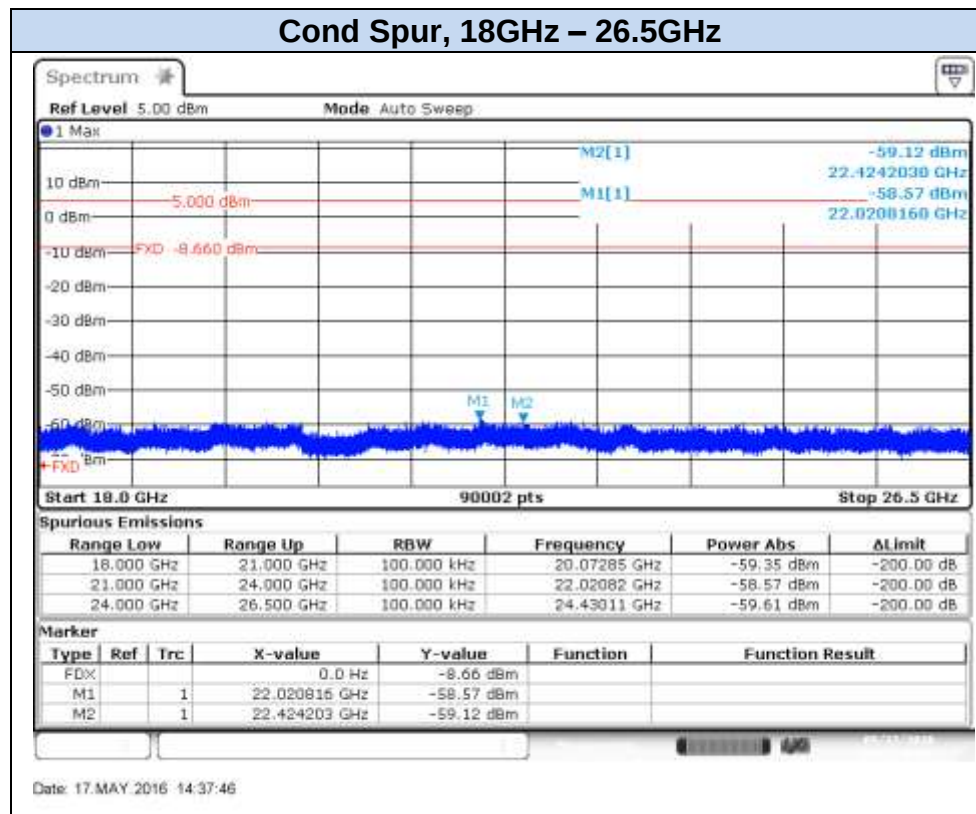
802.11b, 1Mbps – Chain B, CH1

Cond Spur, 30MHz – 9GHz



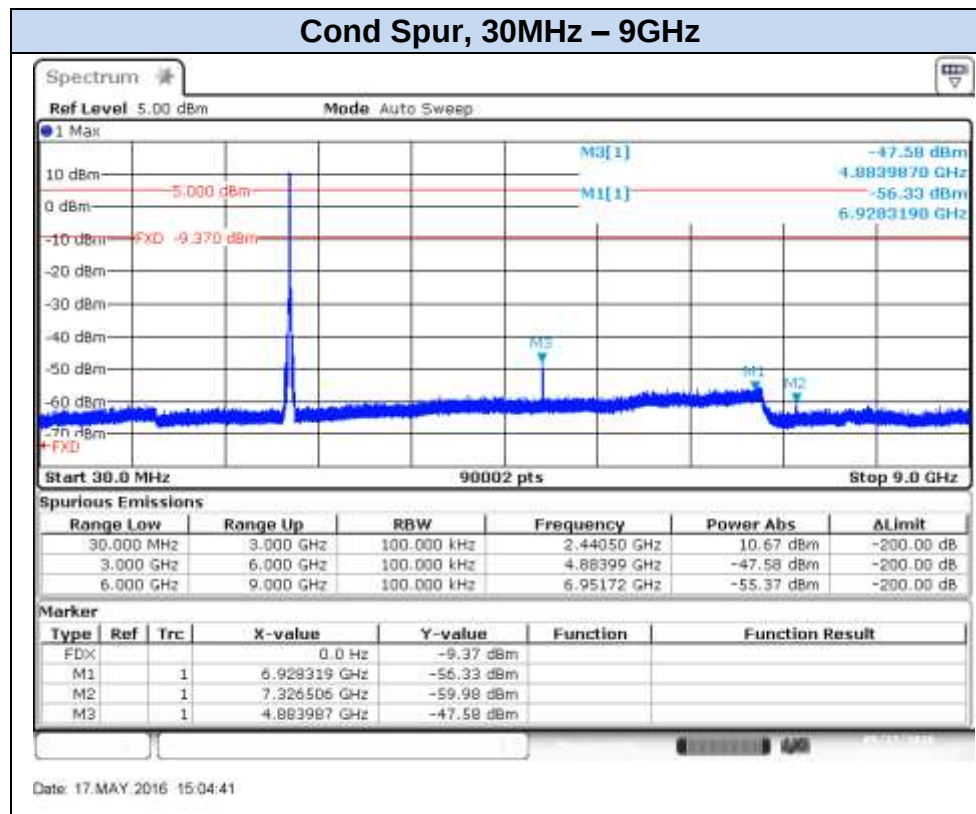
Cond Spur, 9GHz – 18GHz



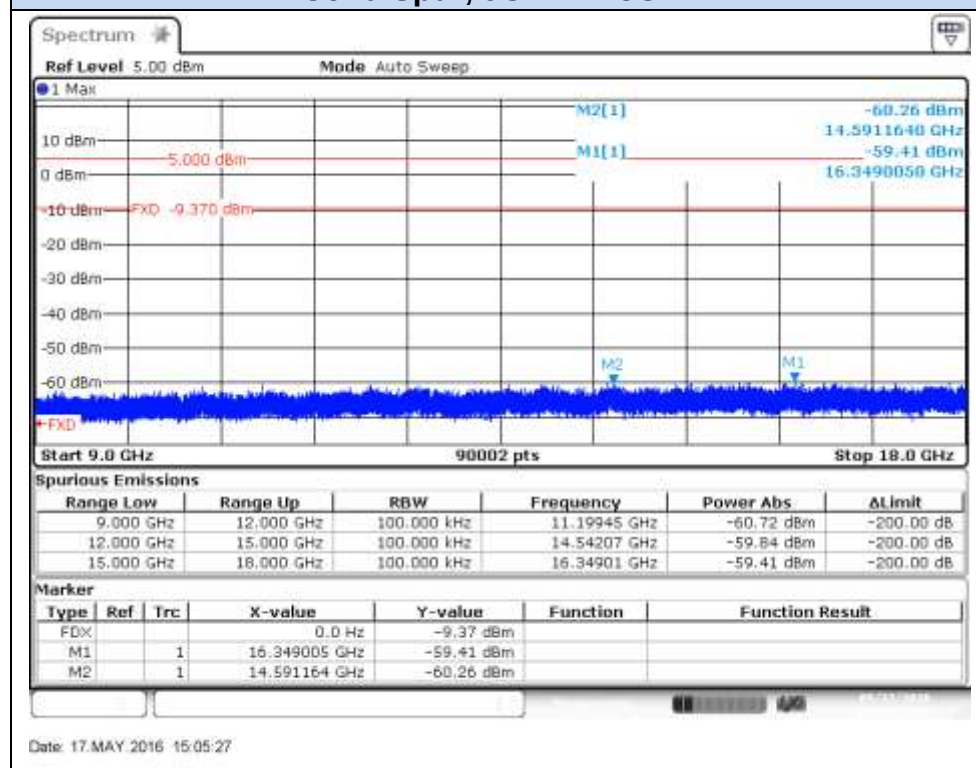


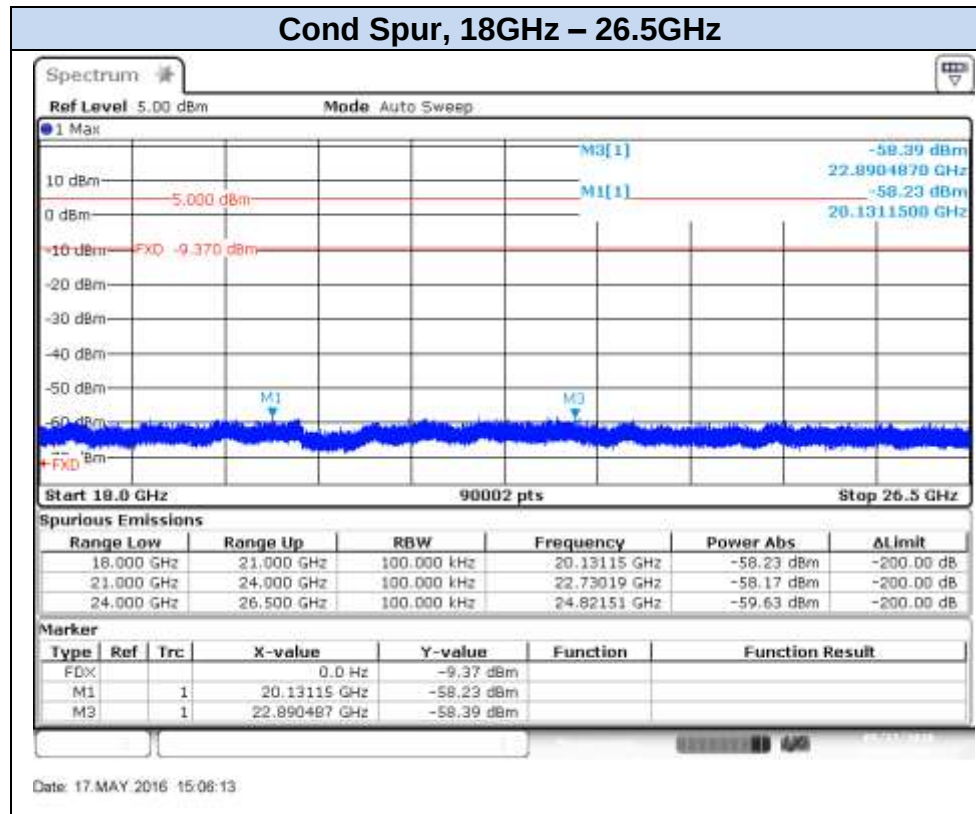
802.11b, 1Mbps – Chain B, CH7

Cond Spur, 30MHz – 9GHz



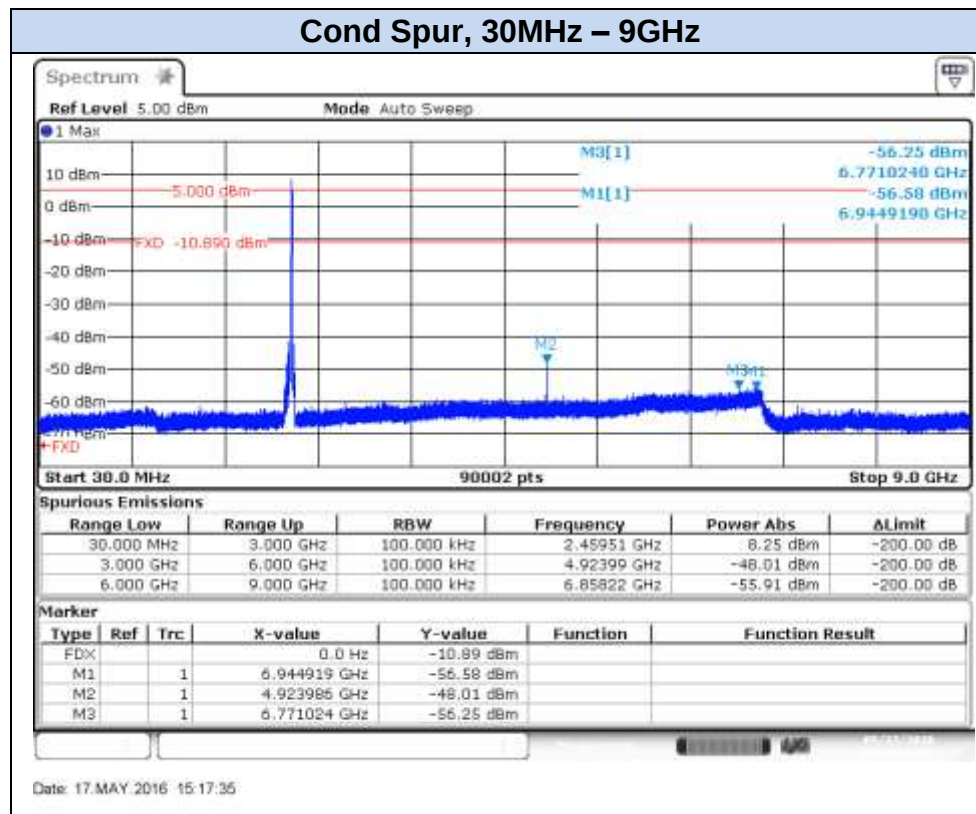
Cond Spur, 9GHz – 18GHz



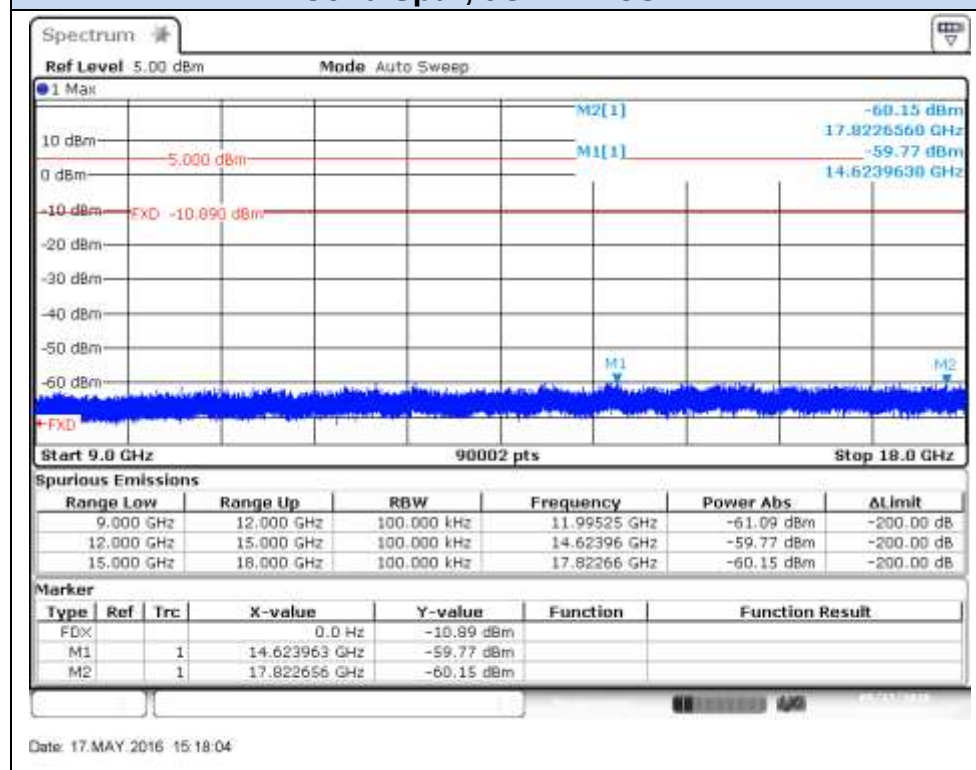


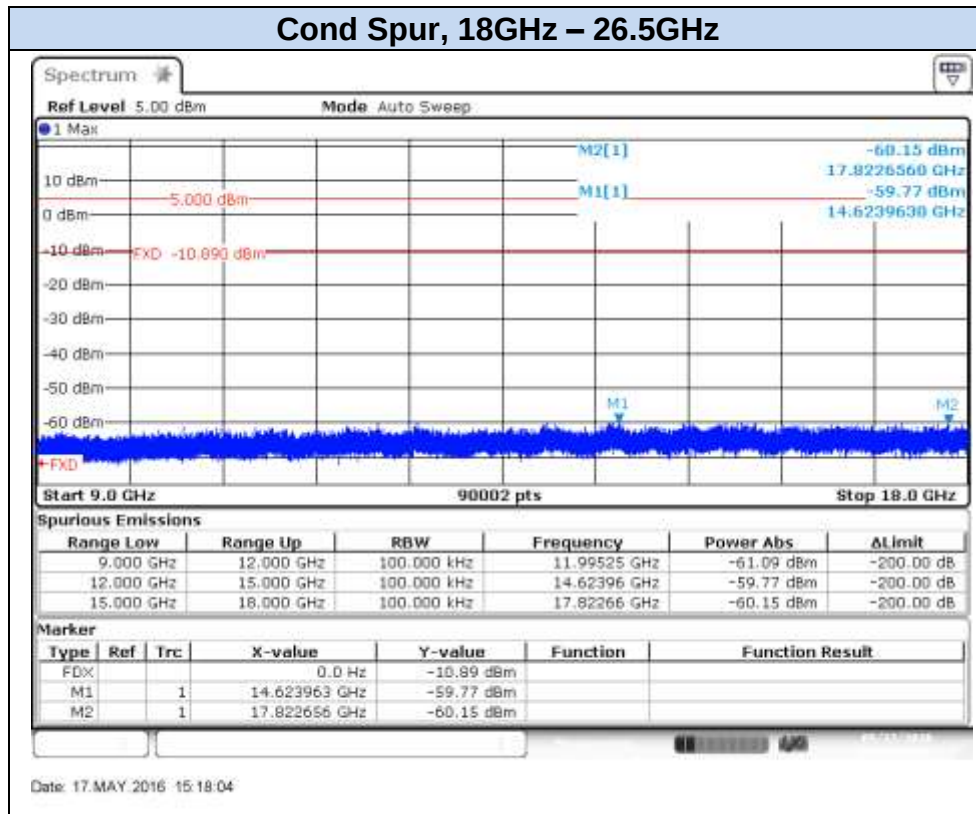
802.11b, 1Mbps – Chain B, CH11

Cond Spur, 30MHz – 9GHz



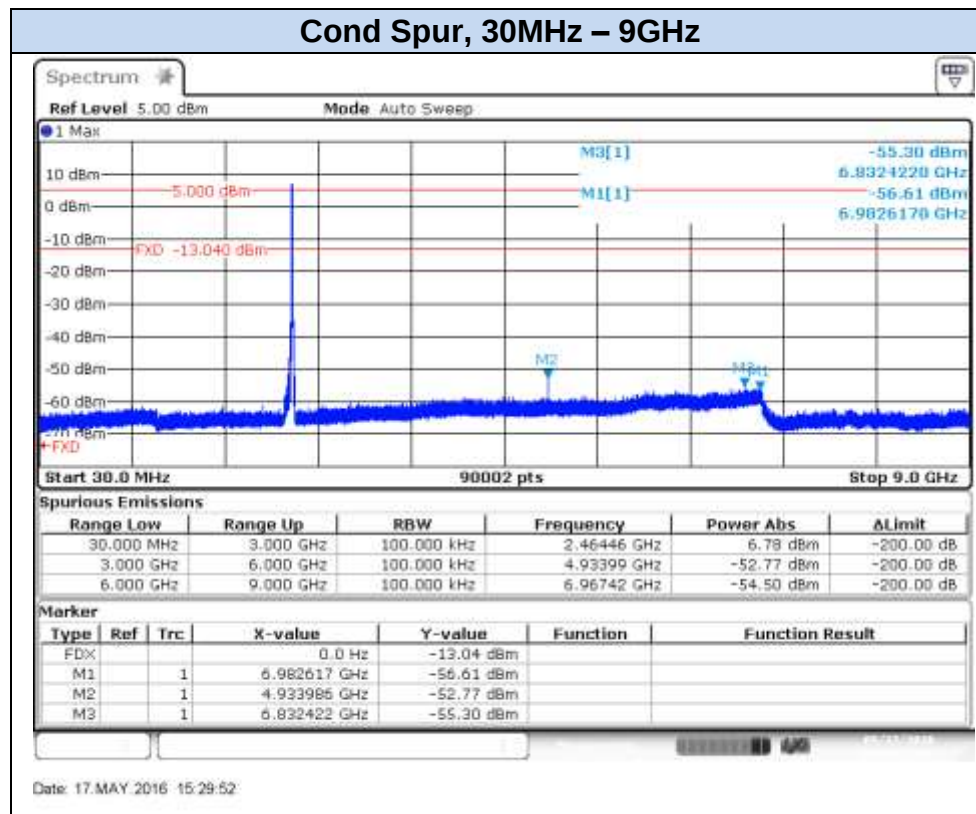
Cond Spur, 9GHz – 18GHz



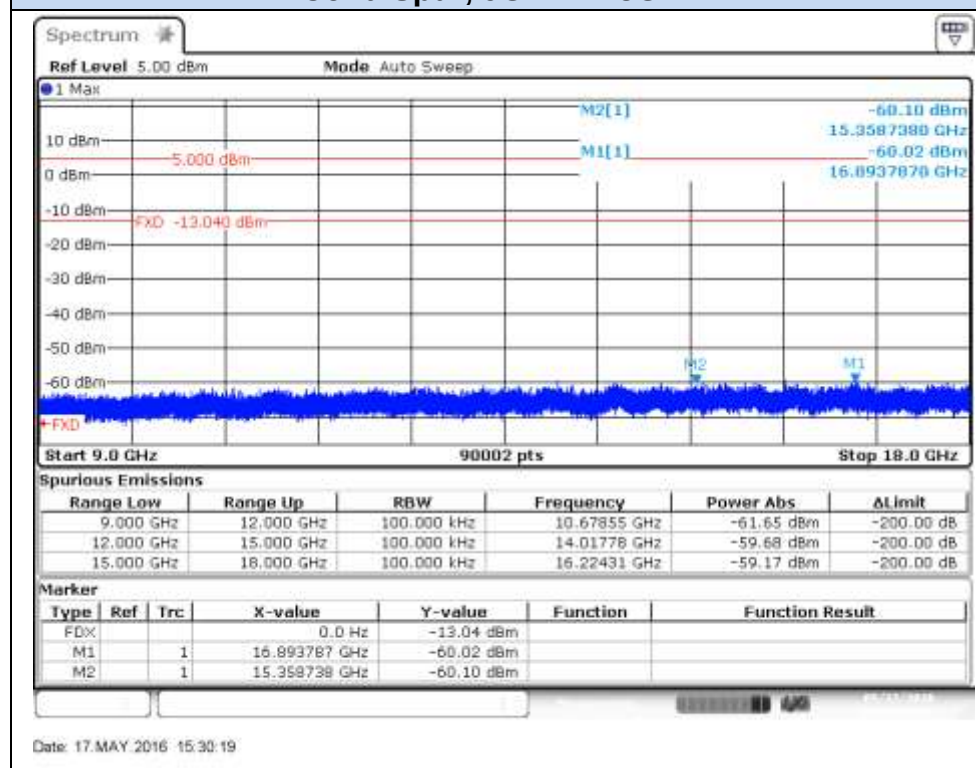


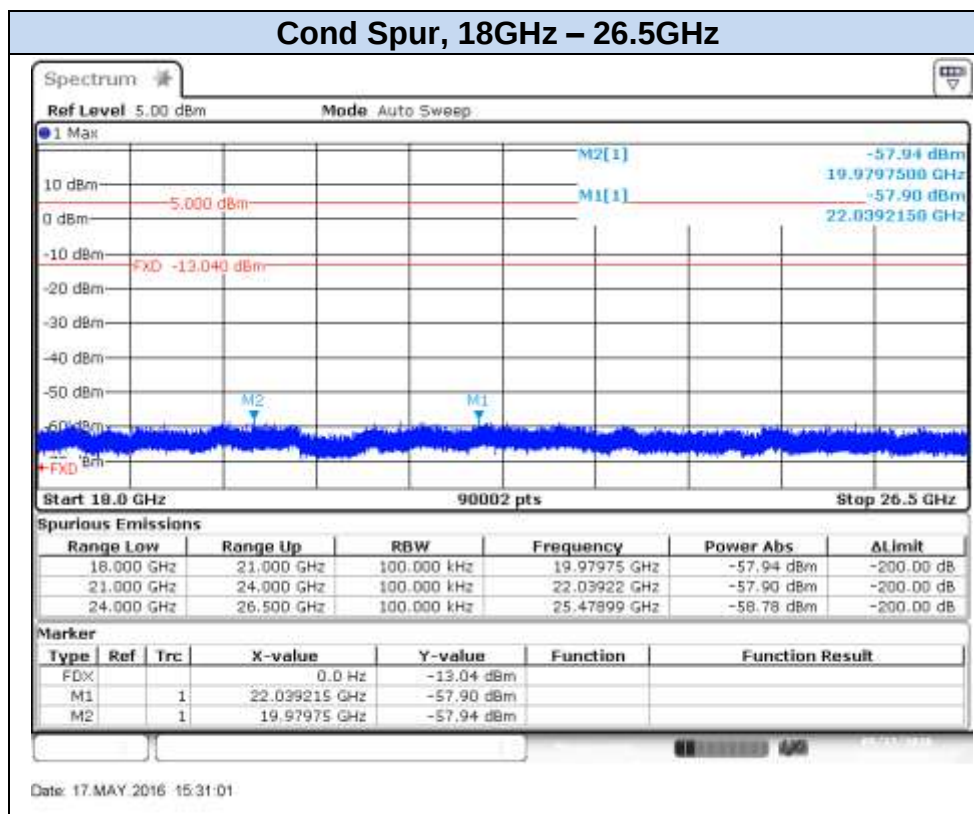
802.11b, 1Mbps – Chain B, CH12

Cond Spur, 30MHz – 9GHz



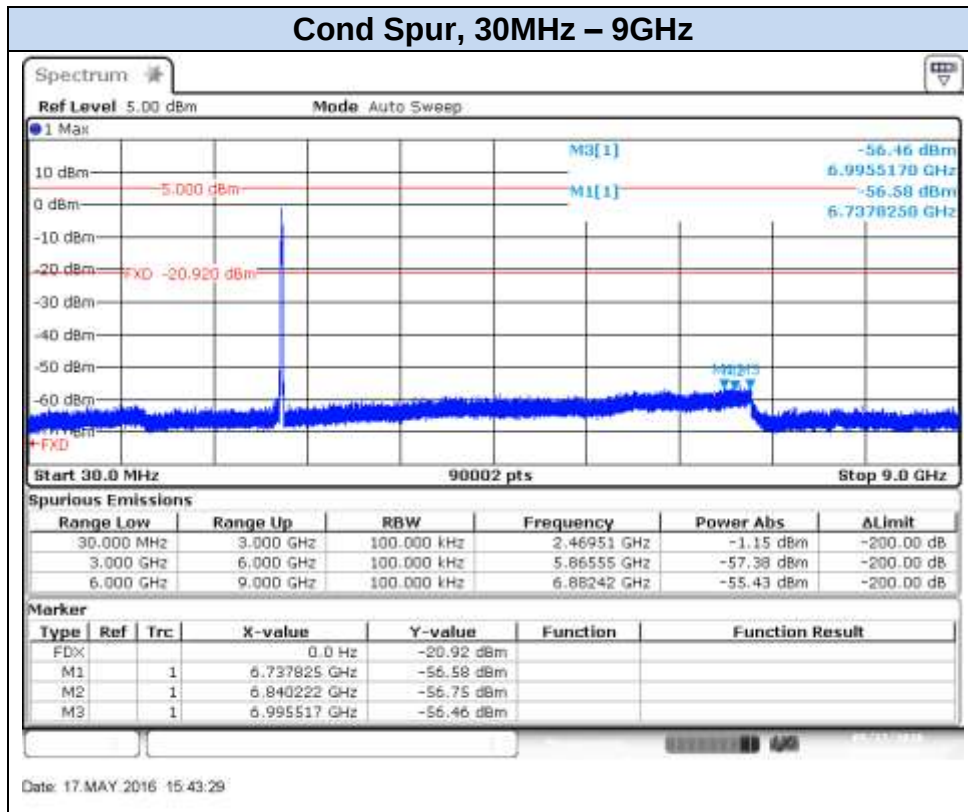
Cond Spur, 9GHz – 18GHz



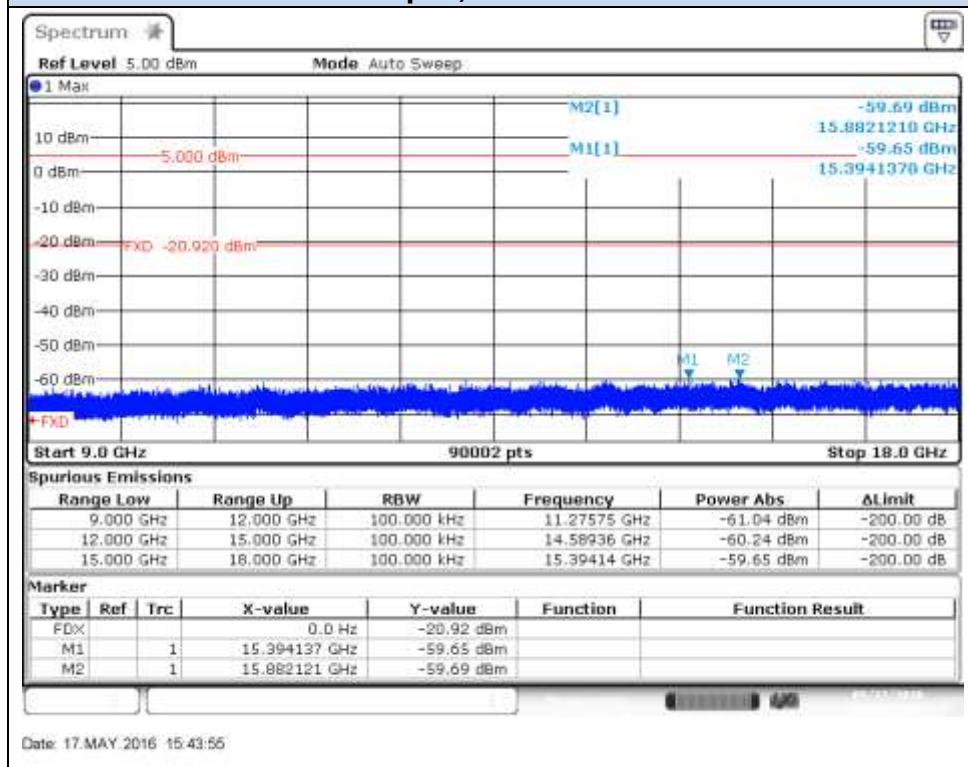


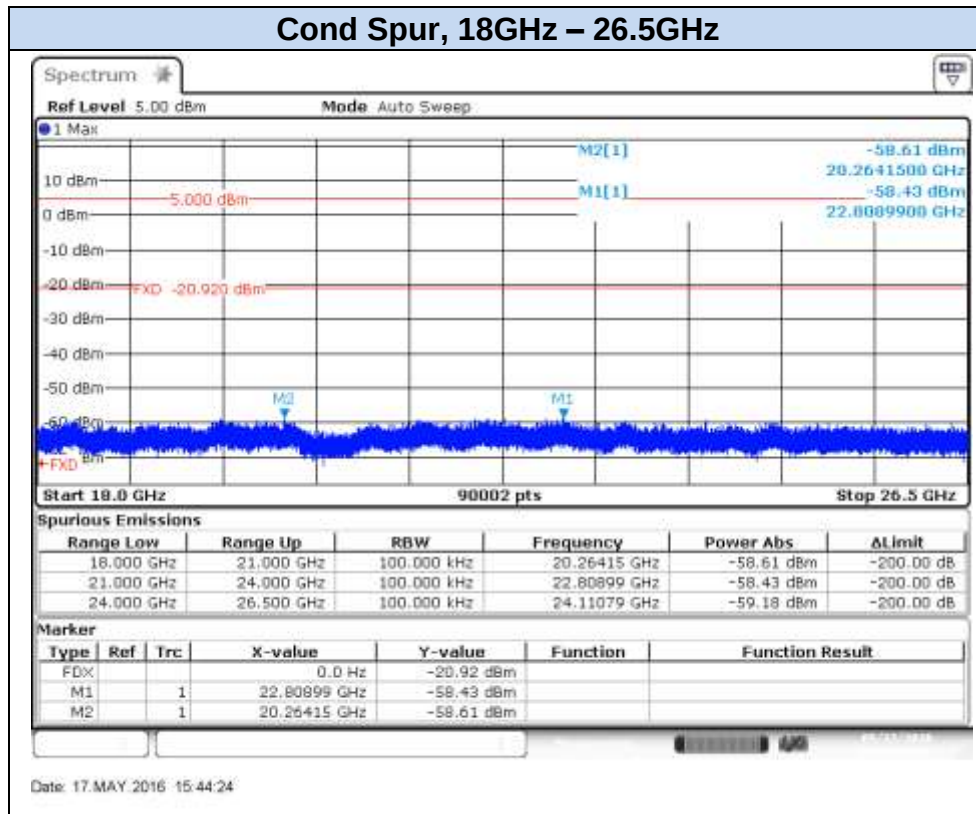
802.11b, 1Mbps – Chain B, CH13

Cond Spur, 30MHz – 9GHz



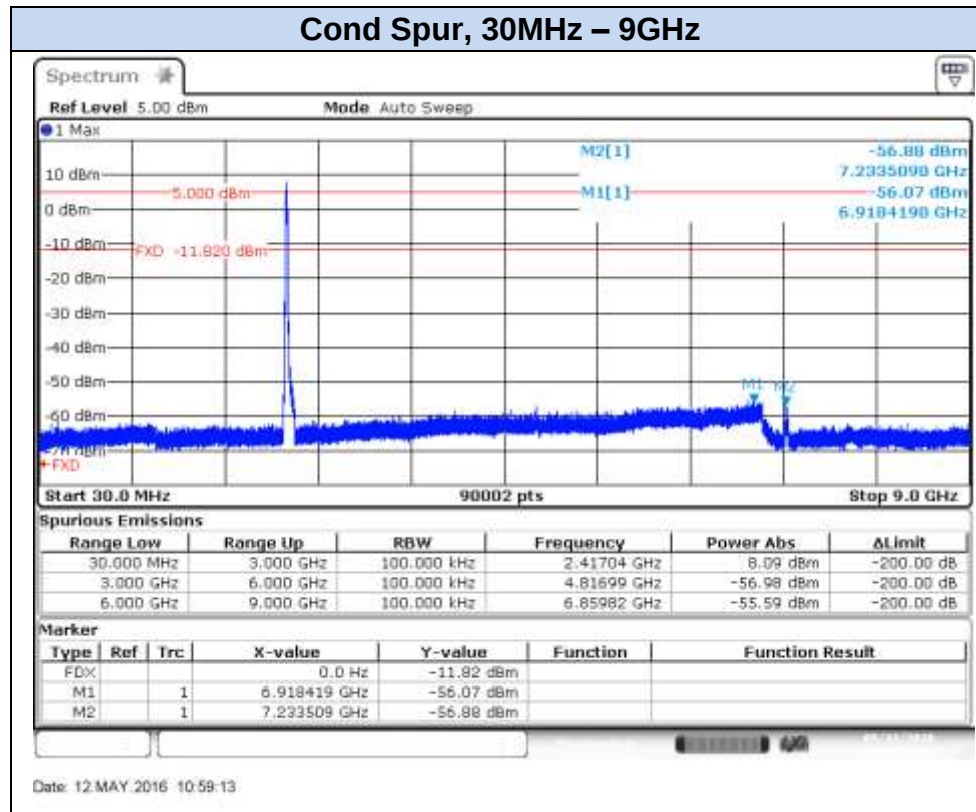
Cond Spur, 9GHz – 18GHz





802.11g, 6Mbps – Chain A, CH1

Cond Spur, 30MHz – 9GHz



Cond Spur, 9GHz – 18GHz

