Appendix for Band 7

FCC ID: 2AC88-ELTP18A04

IC: 24230-ELTP18A04

Model: ELTP18A04

Appendix A: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.00	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	4.46	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	3.94	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.75	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.20	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.75	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.55	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.22	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.96	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.42	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.07	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.59	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	3.77	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.46	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.03	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.64	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.17	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.70	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.00	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.42	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.43	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.57	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	4.41	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.71	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	3.80	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	4.46	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.12	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	4.49	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.23	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	4.52	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	3.94	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.51	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	4.43	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.62	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	4.46	13	PASS

Band7	15MHz	16QAM	21375	75RB#0	5.68	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	3.91	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	3.88	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.20	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	3.83	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.32	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	3.86	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.43	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.54	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.25	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.51	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	4.49	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.59	13	PASS

Test Graphs

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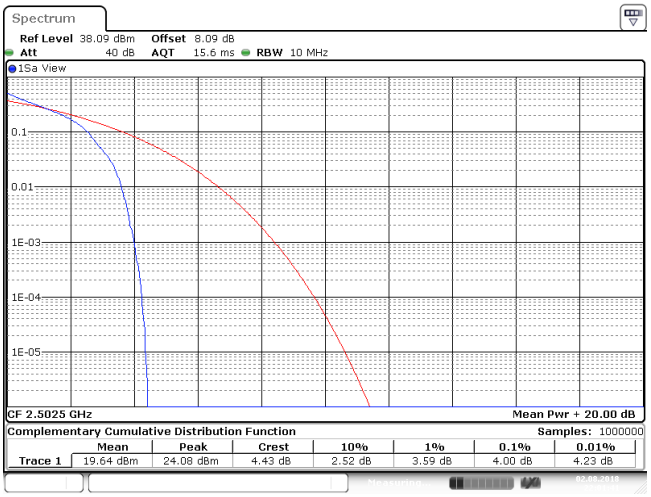

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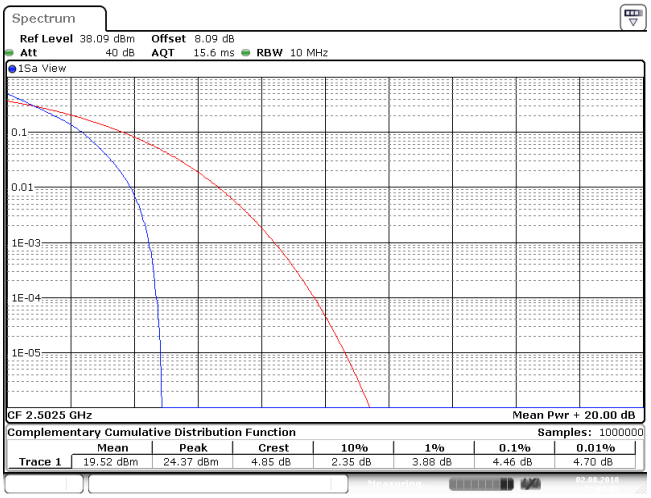

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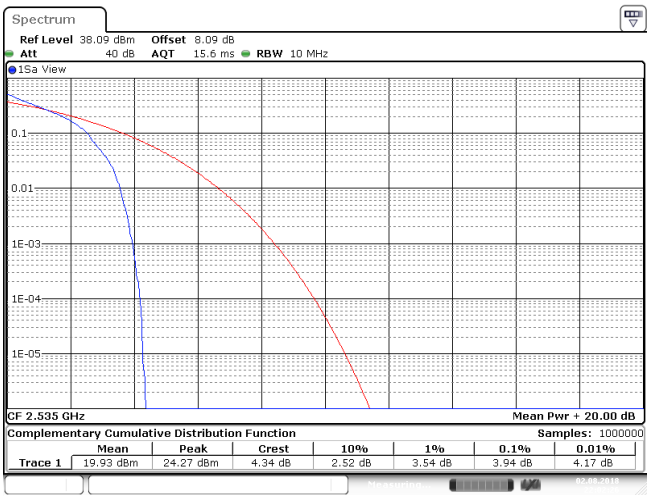

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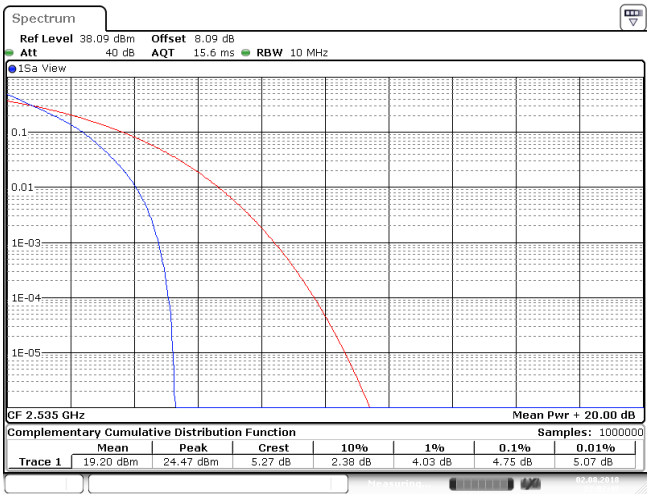

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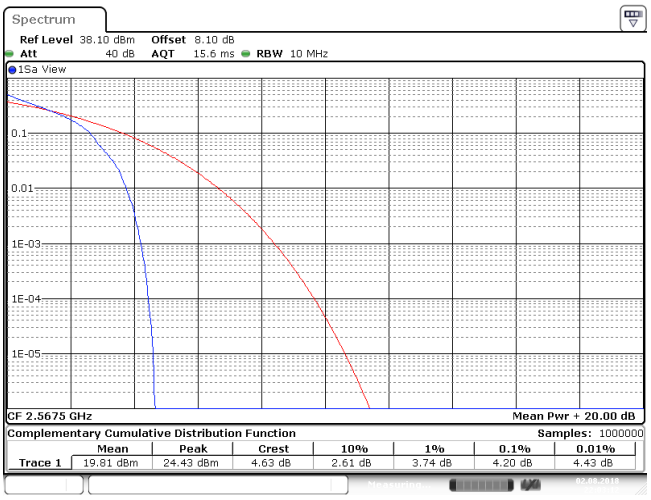

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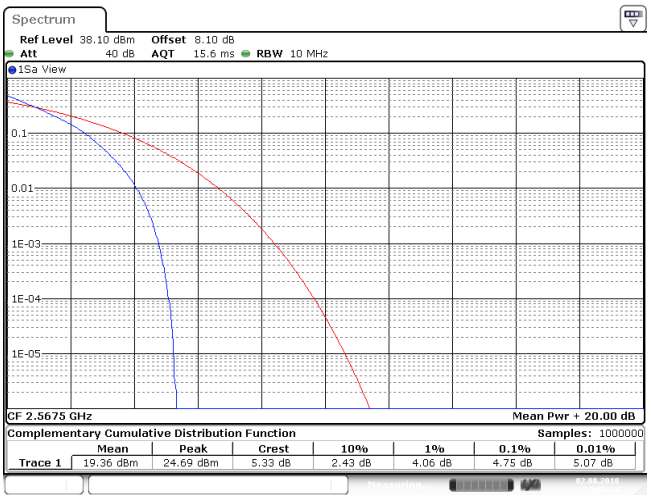

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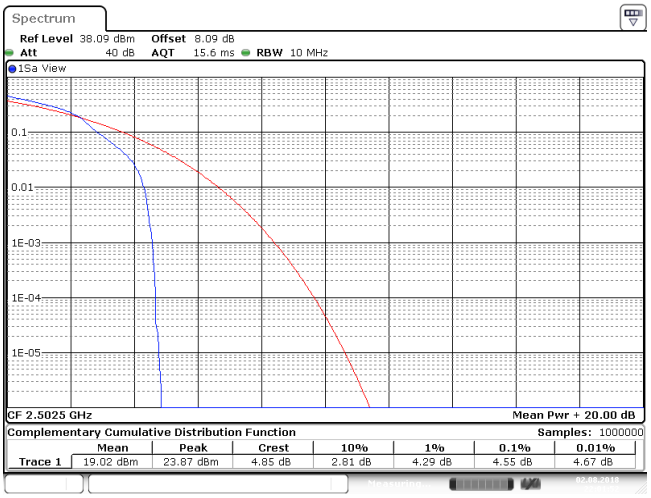

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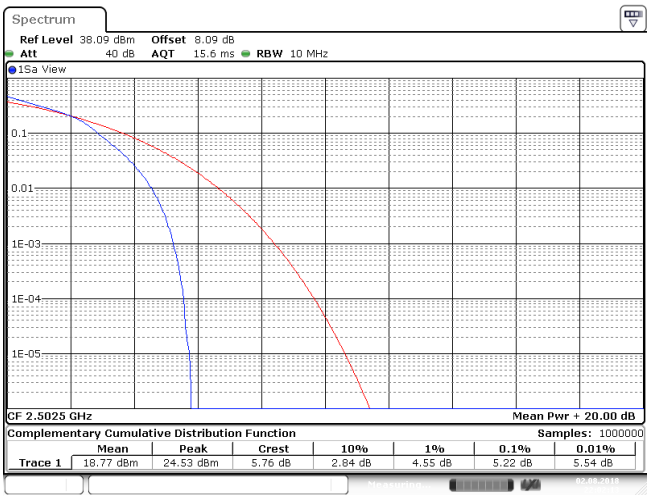

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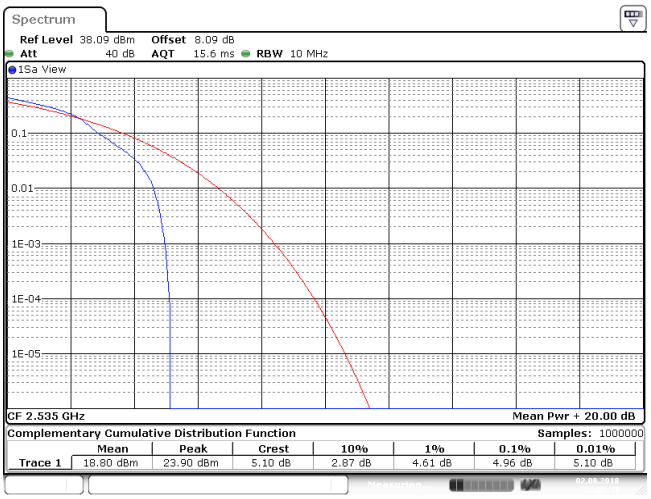

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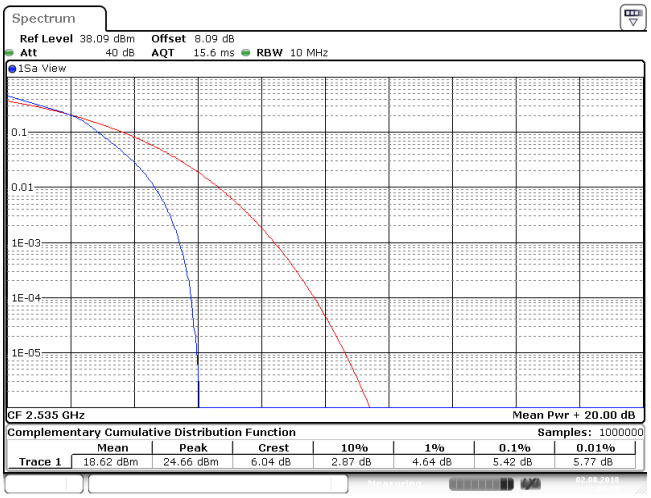

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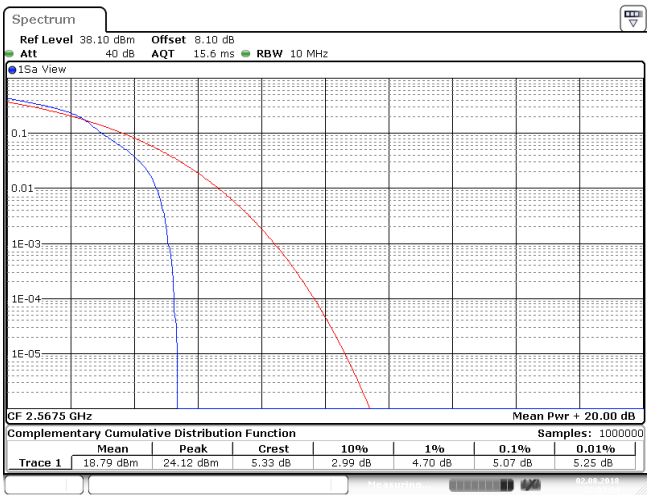

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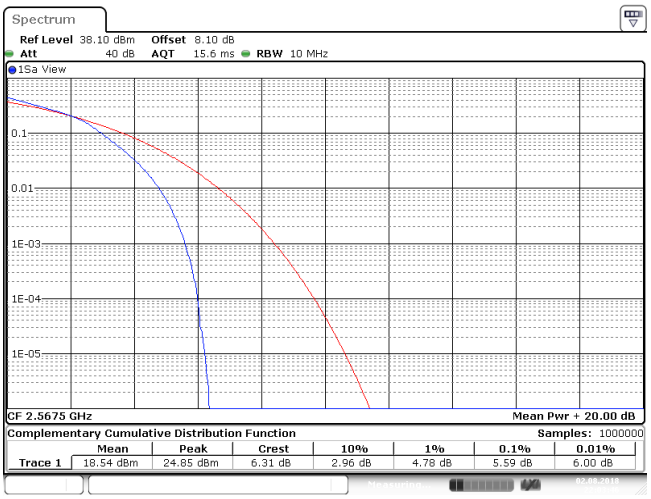

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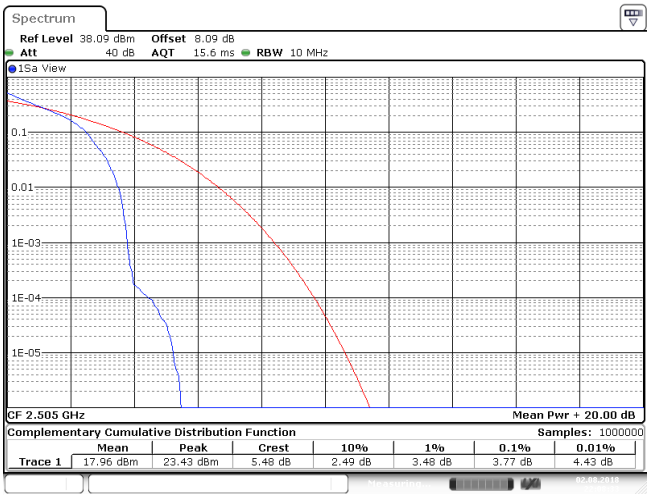

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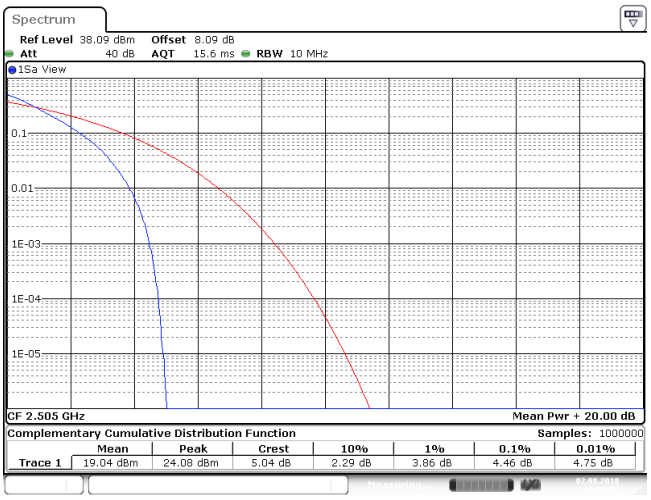

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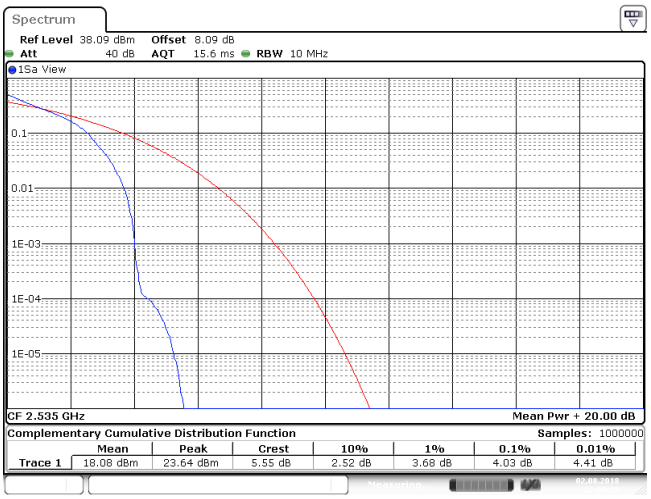

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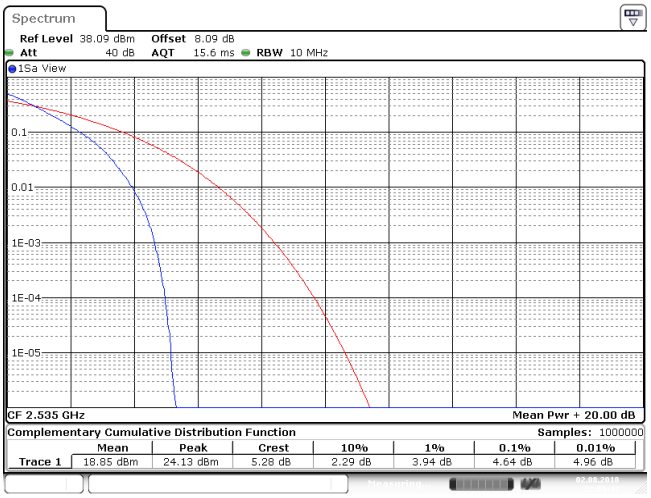

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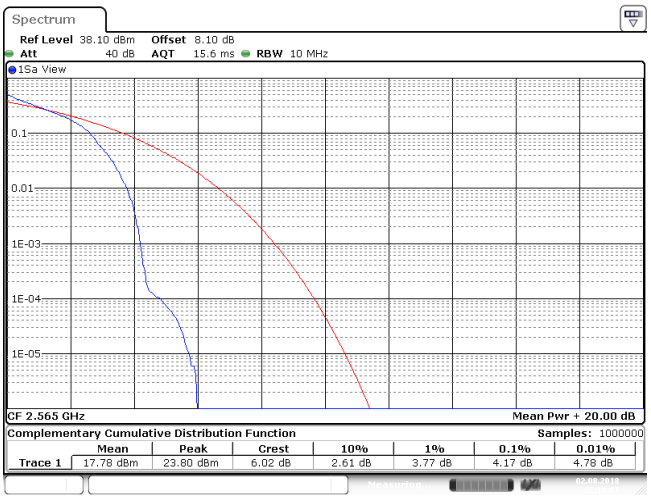

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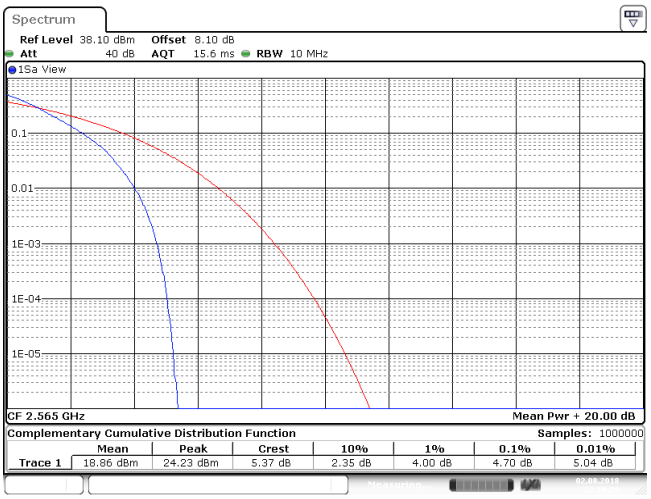

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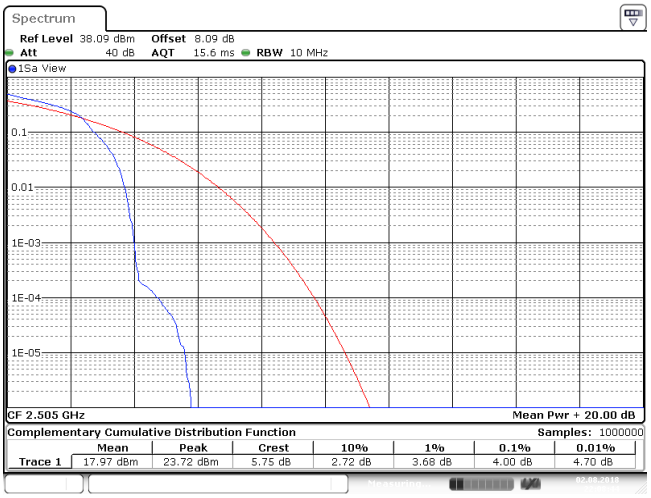

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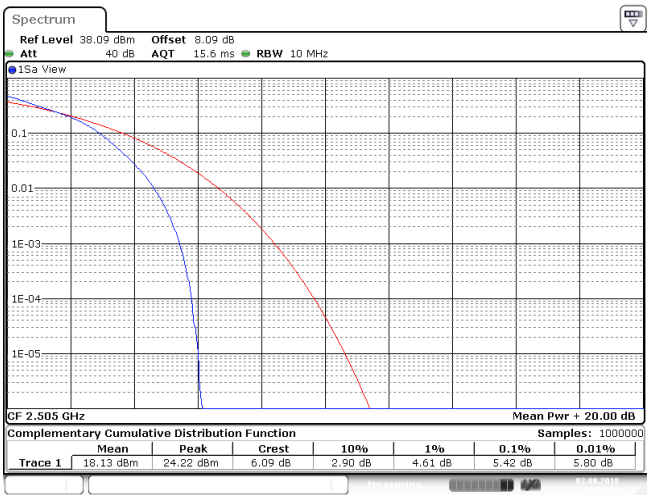

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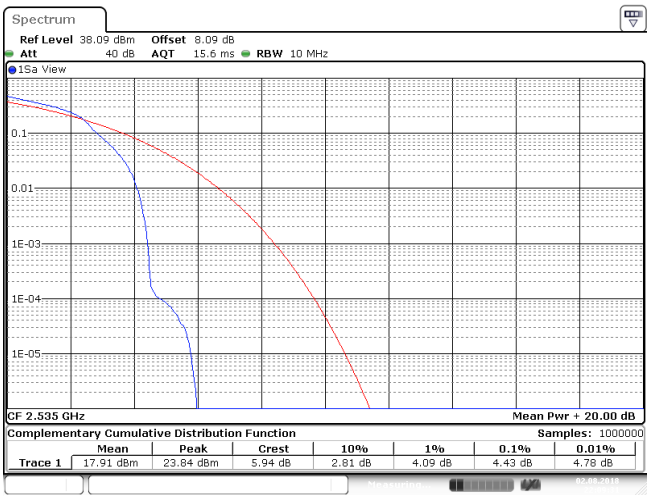

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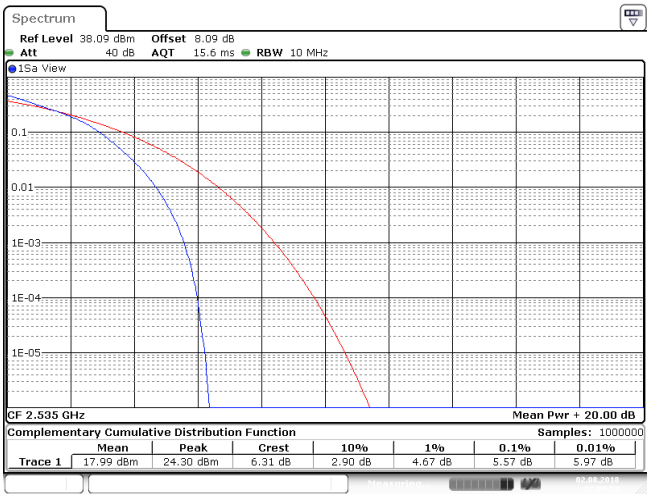

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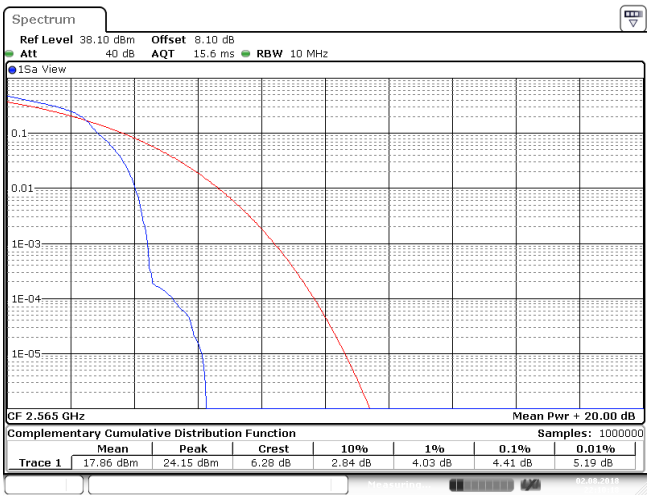

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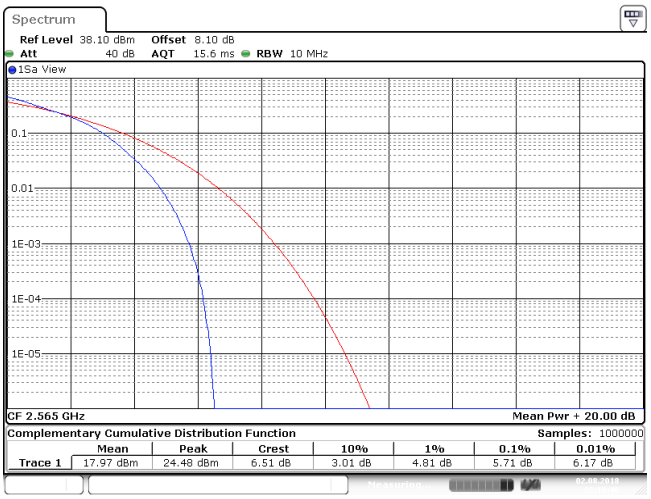

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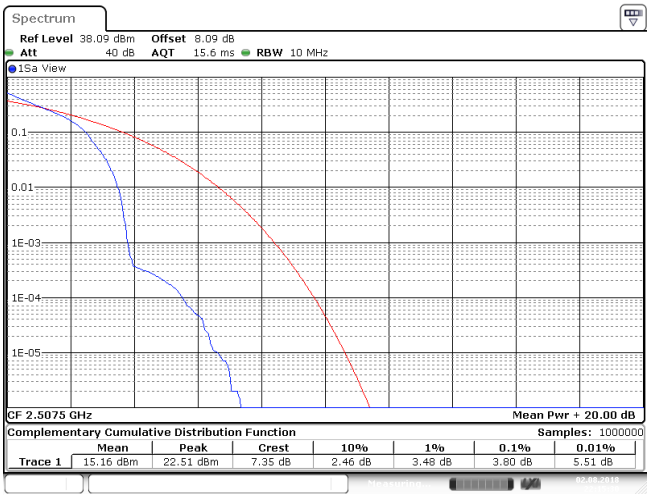

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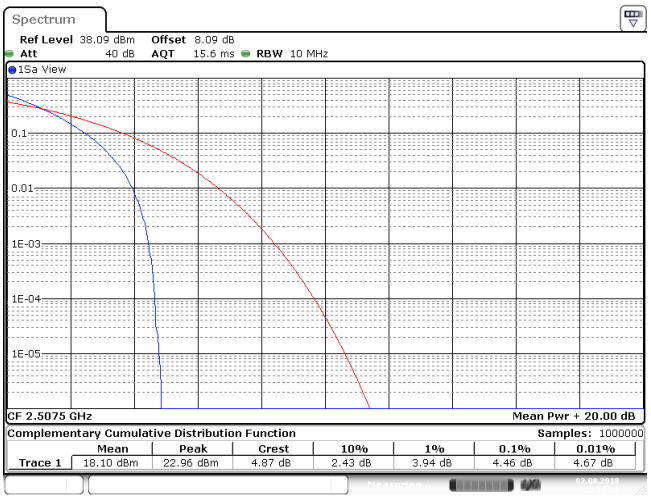

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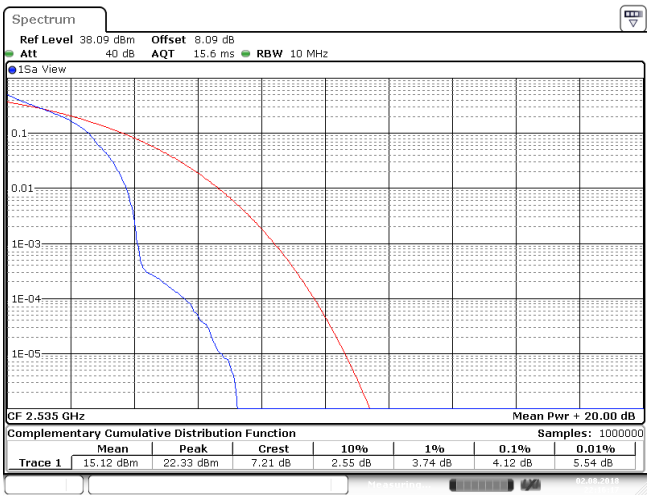

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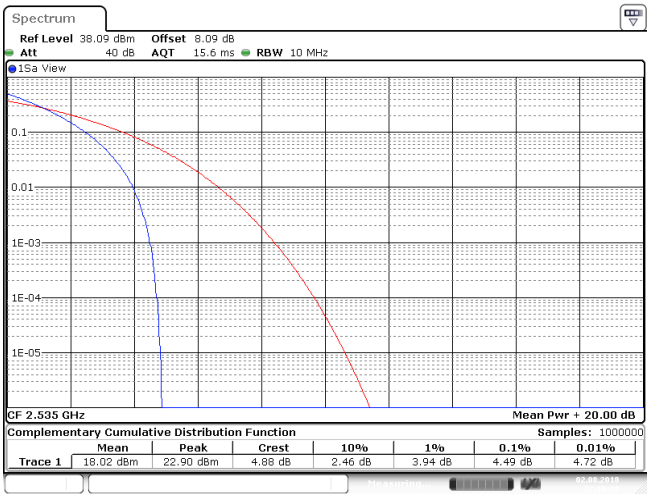

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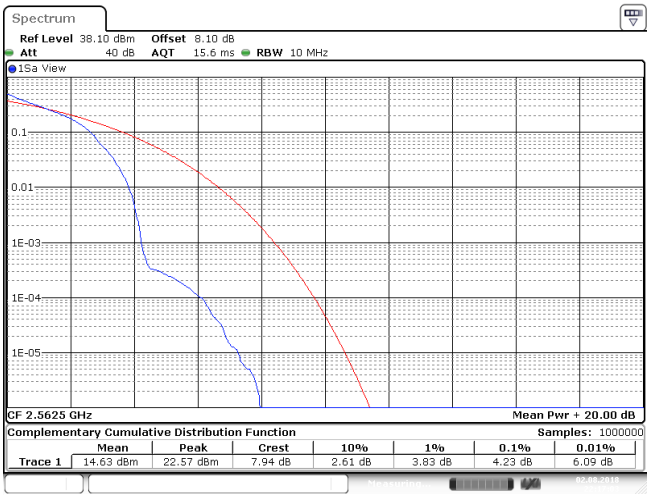

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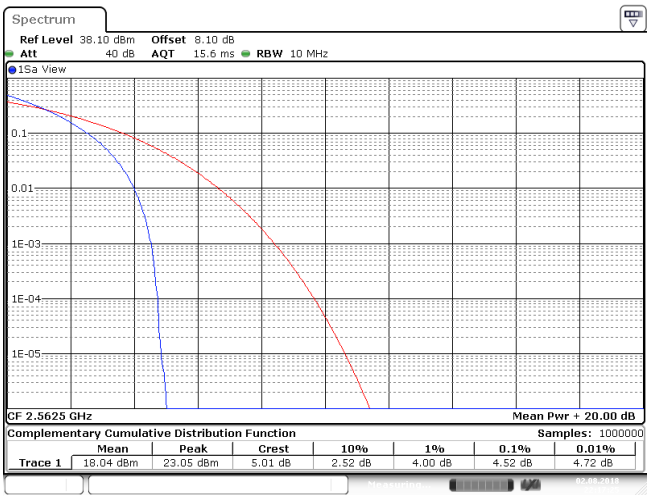

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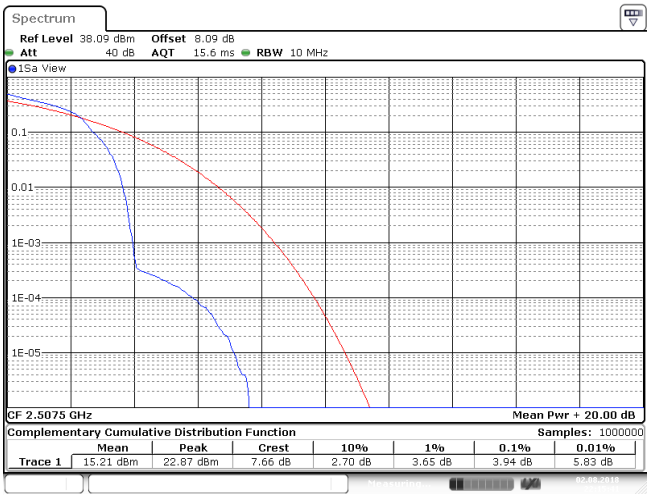

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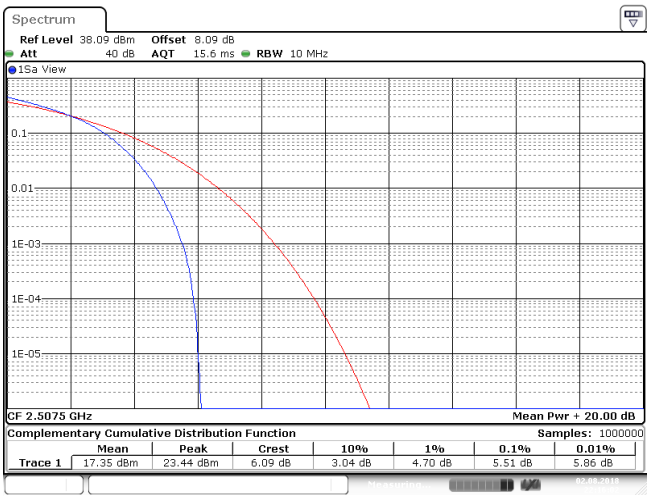

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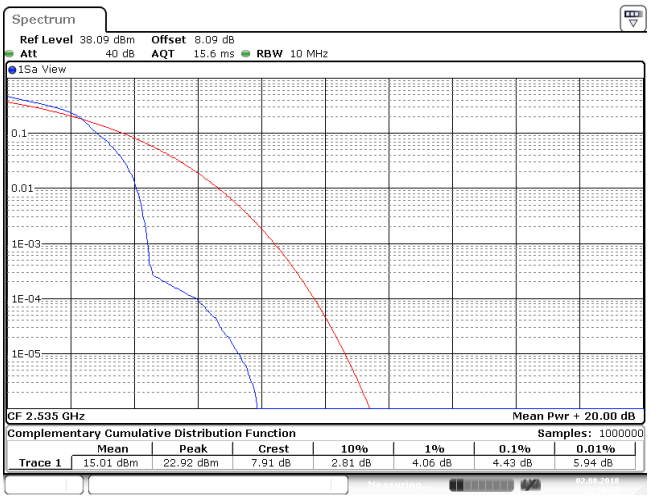

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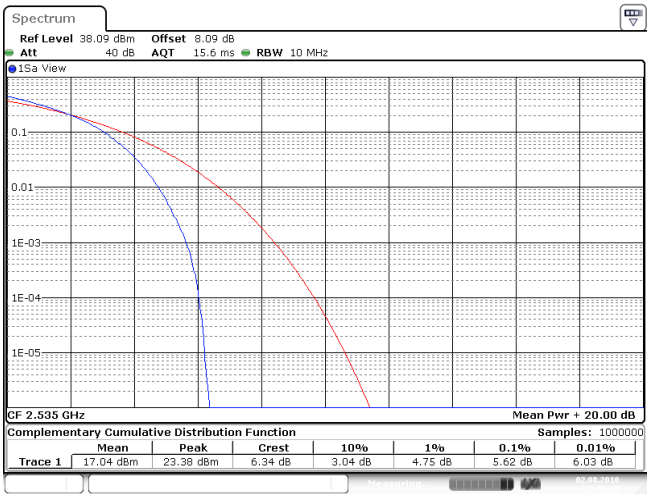

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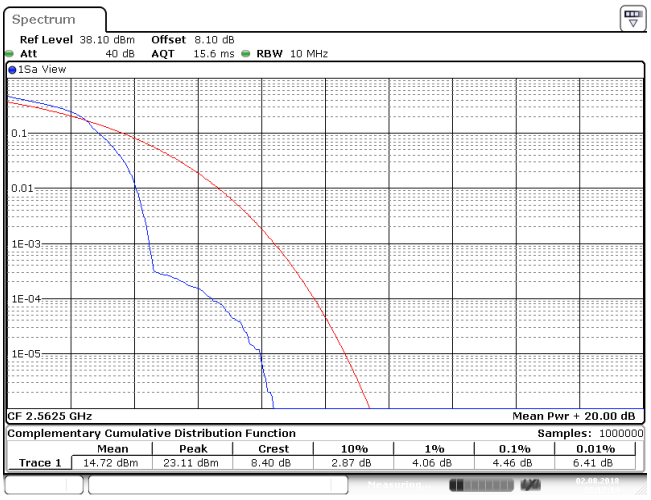

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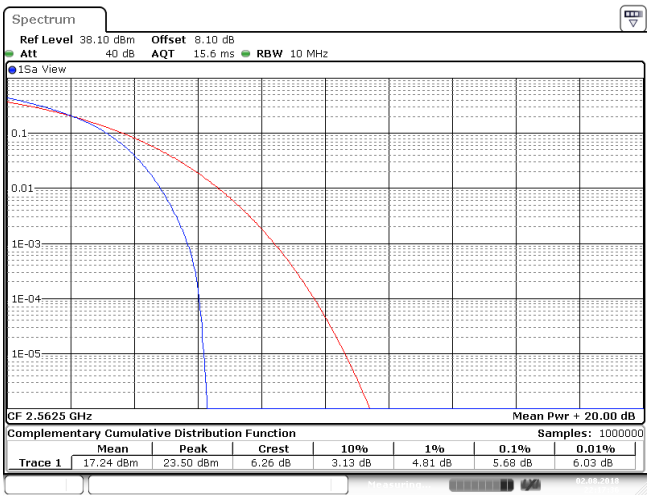

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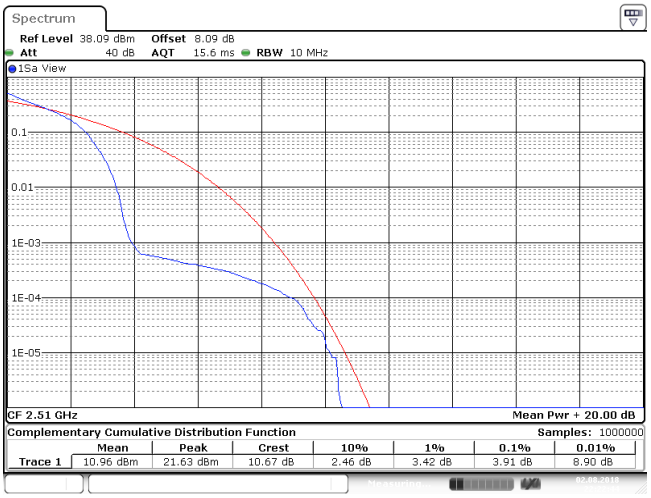

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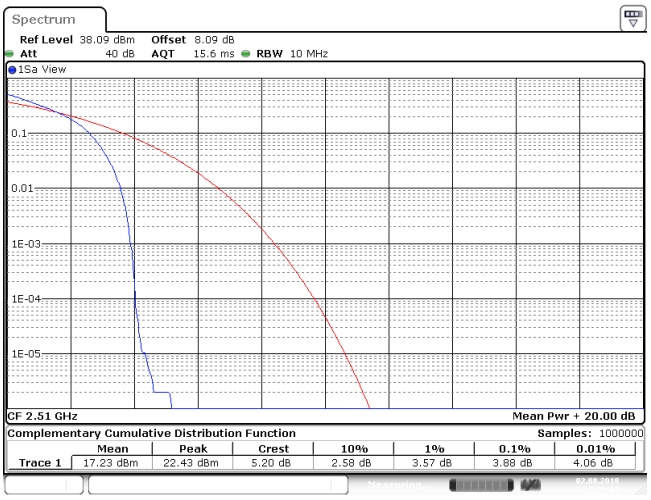

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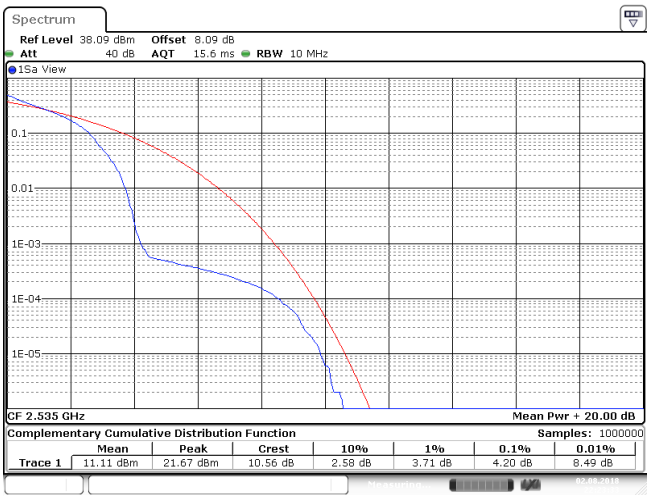
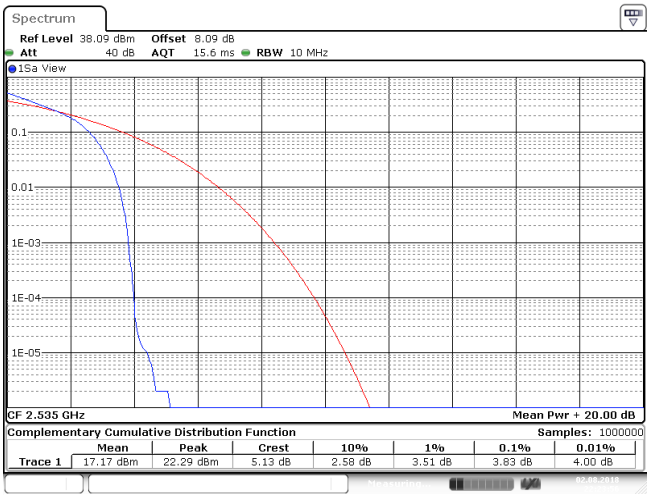


Date: 2.AUG.2018 22:23:32

Band7_20MHz_QPSK_21100_100RB#0



Date: 2.AUG.2018 22:23:55

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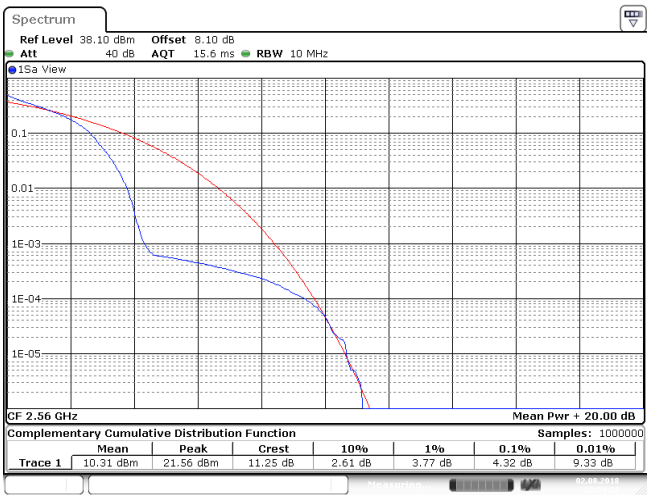
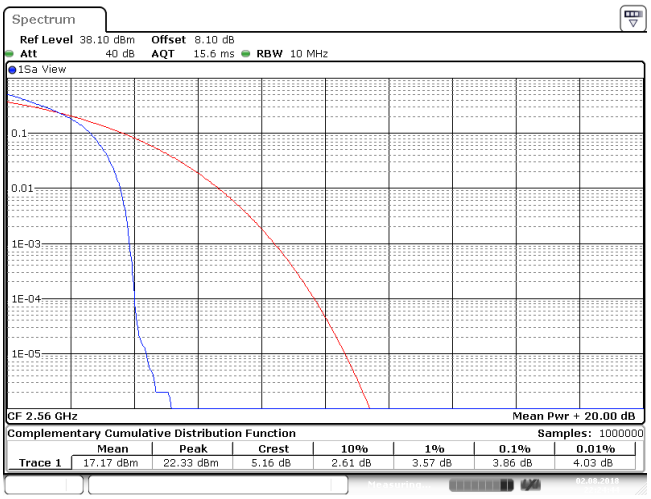


Date: 2.AUG.2018 22:24:22

Band7_20MHz_QPSK_21350_100RB#0



Date: 2.AUG.2018 22:24:45

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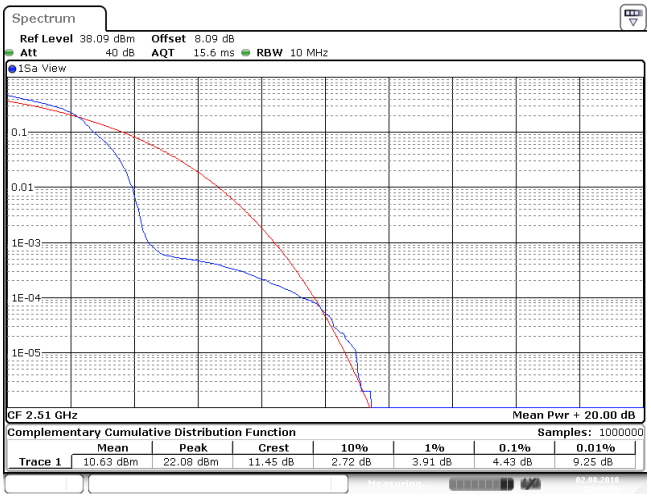

Date: 2.AUG.2018 22:22:55

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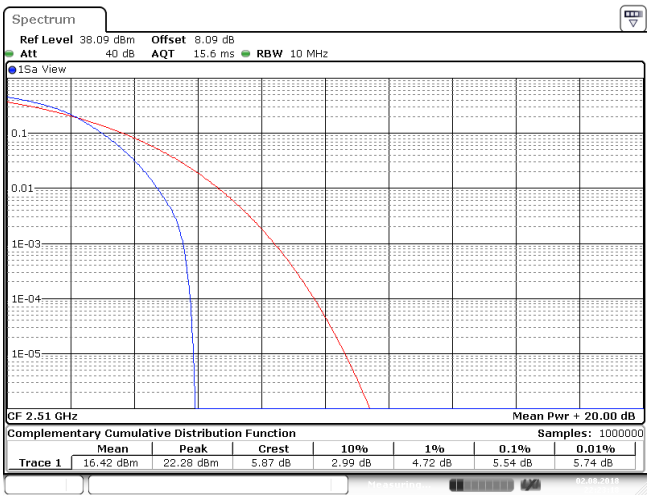
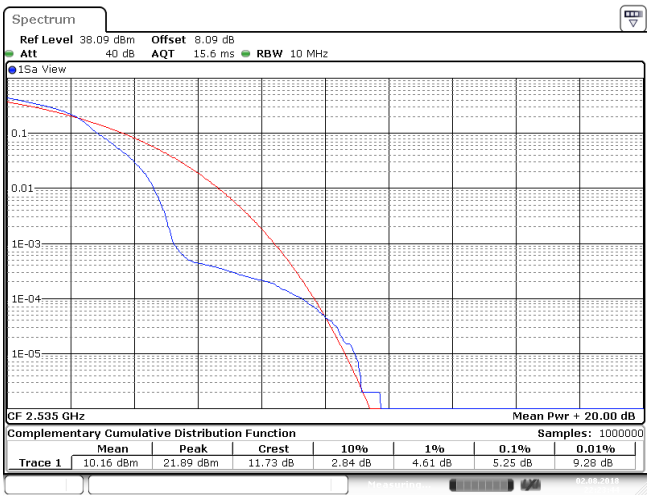


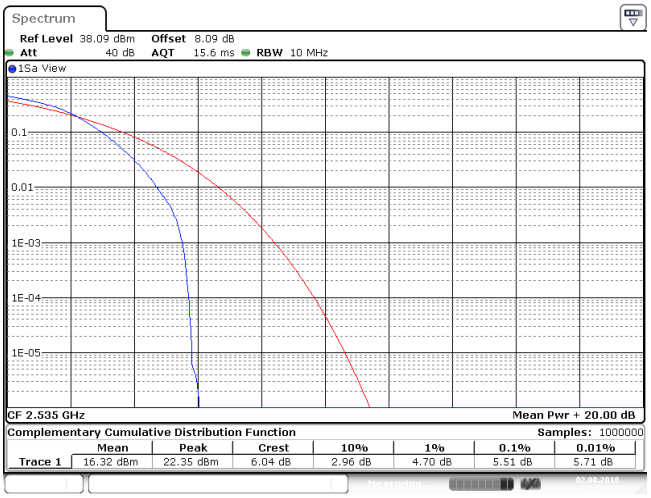
Date: 2.AUG.2018 22:23:18

Band7_20MHz_16QAM_21100_1RB#0



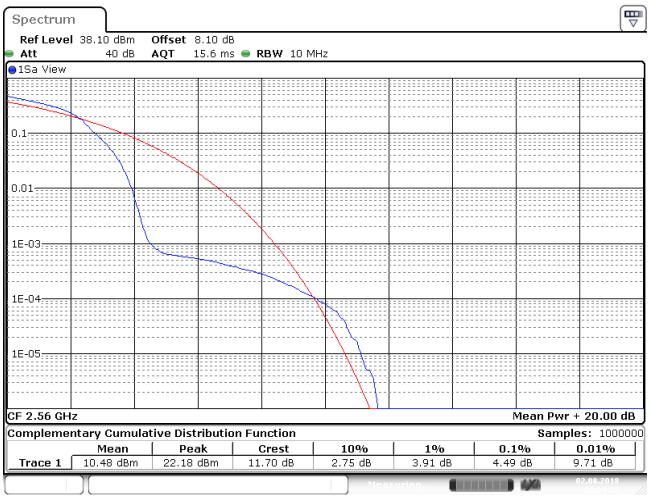
Date: 2.AUG.2018 22:23:44

Band7_20MHz_16QAM_21100_100RB#0



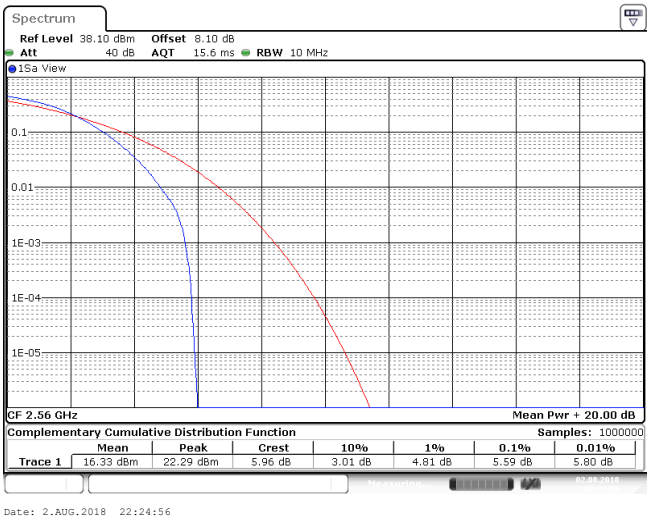
Date: 2.AUG.2018 22:24:07

Band7_20MHz_16QAM_21350_1RB#0



Date: 2.AUG.2018 22:24:33

Band7_20MHz_16QAM_21350_100RB#0



Date: 2.AUG.2018 22:24:56

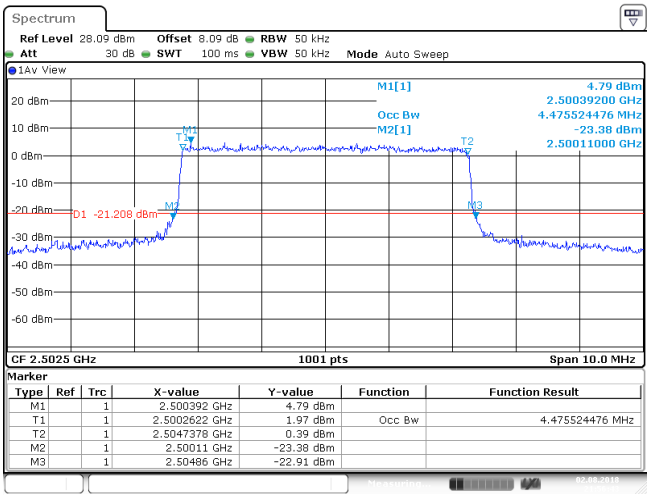
Appendix B: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.750	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.740	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.700	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.476	4.720	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.710	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.720	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.918	9.300	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.918	9.267	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.918	9.267	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.918	9.300	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.918	9.267	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.918	9.267	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.378	13.850	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.378	13.750	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.378	13.800	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.378	13.800	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.378	13.750	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.378	13.700	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.837	18.400	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.837	18.267	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.837	18.333	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.837	18.267	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.837	18.267	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.837	18.400	PASS

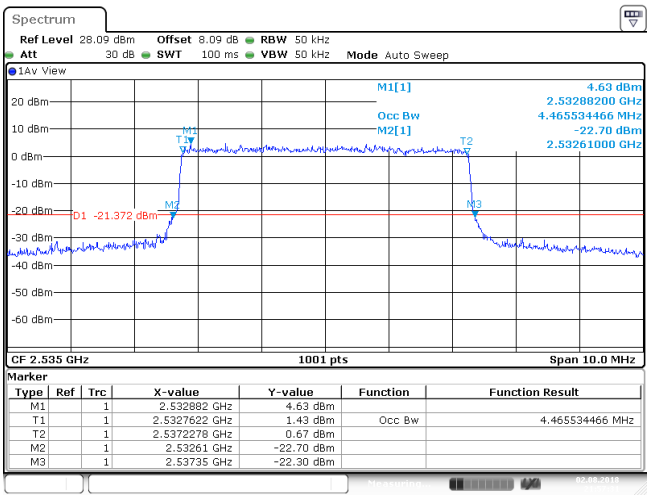
Test Graphs

Band7_5MHz_QPSK_20775_25RB#0



Date: 2.AUG.2018 21:56:43

Band7_5MHz_QPSK_21100_25RB#0



Date: 2.AUG.2018 21:57:31

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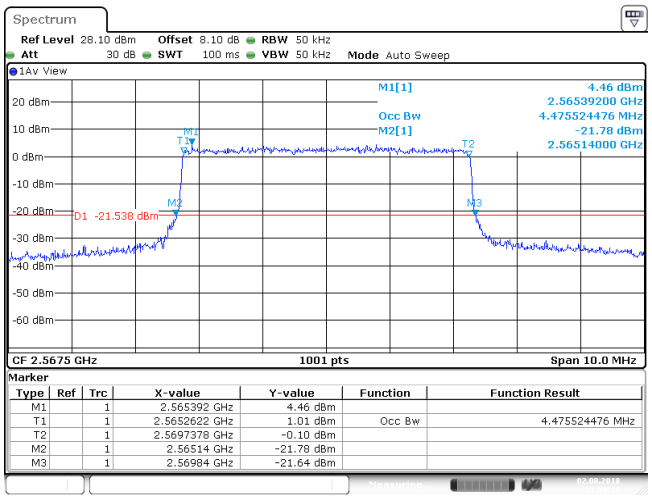

Date: 2.AUG.2018 21:58:18

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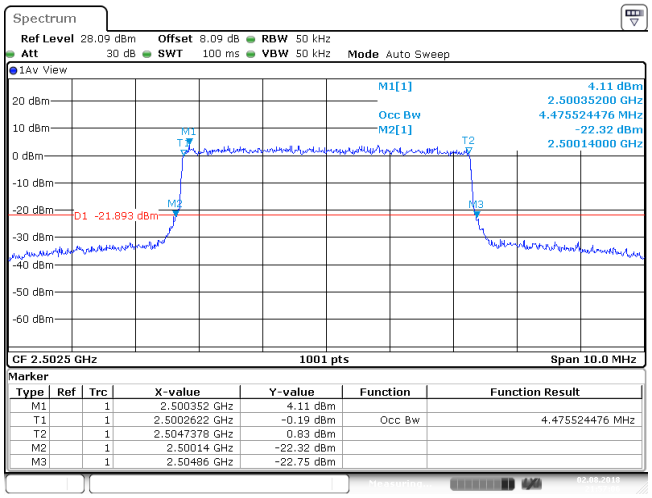

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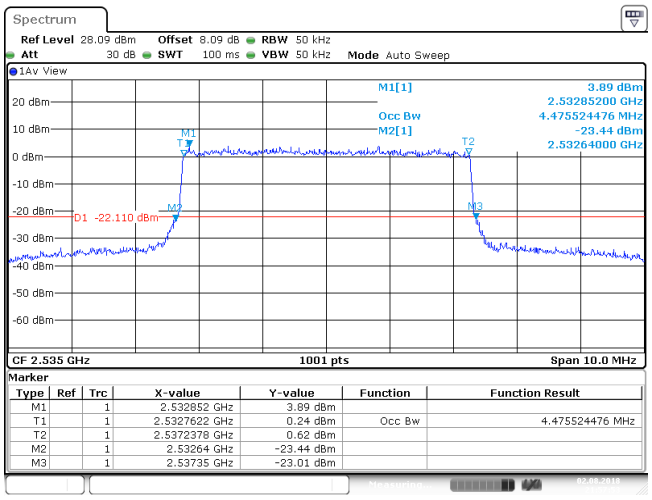

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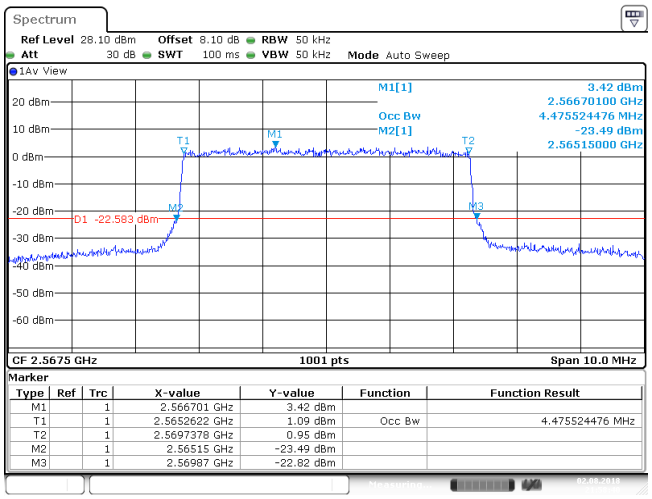
Band7_5MHz_16QAM_21425_25RB#0



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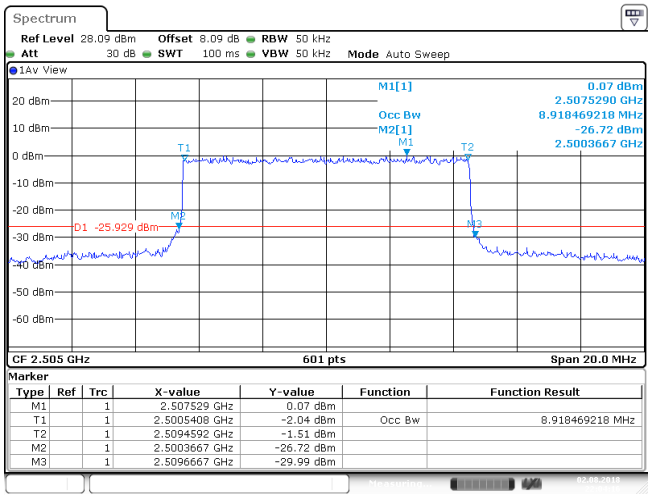

Date: 2.AUG.2018 22:04:16

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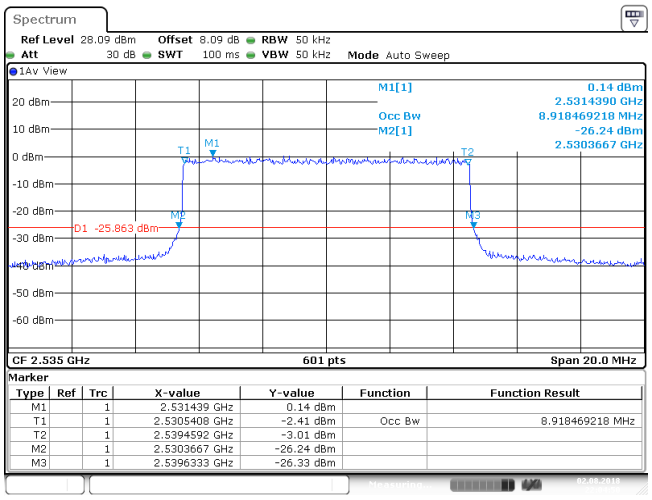

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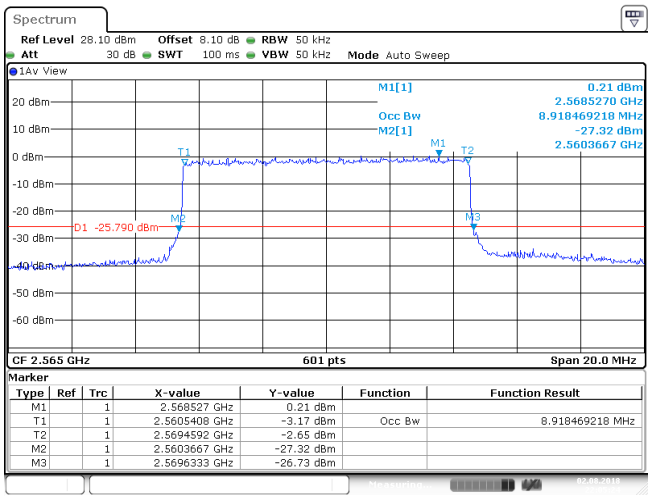

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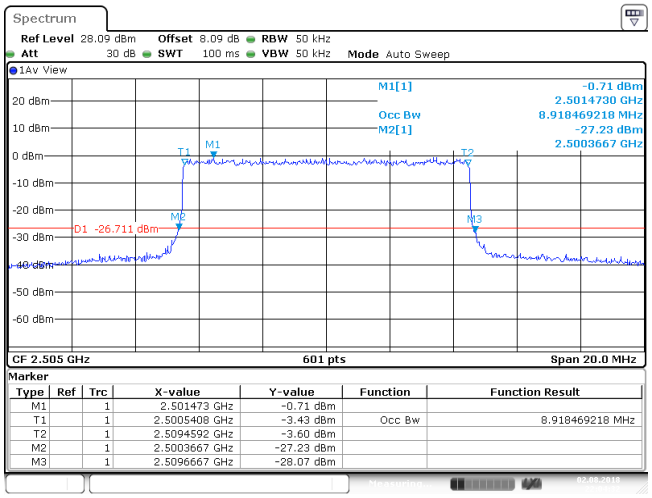

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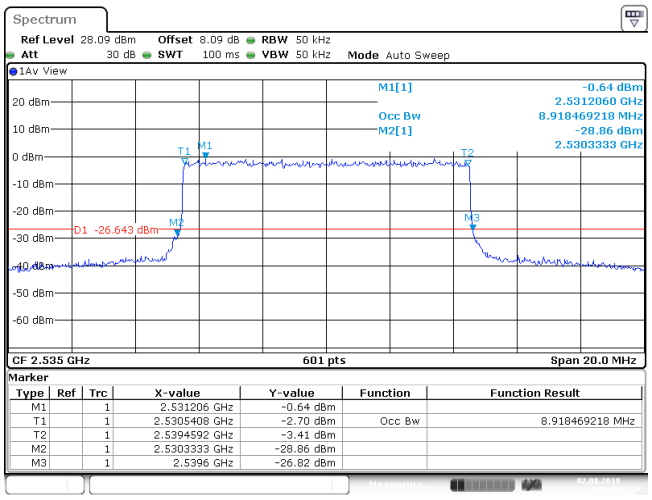
Band7_10MHz_16QAM_21100_50RB#0



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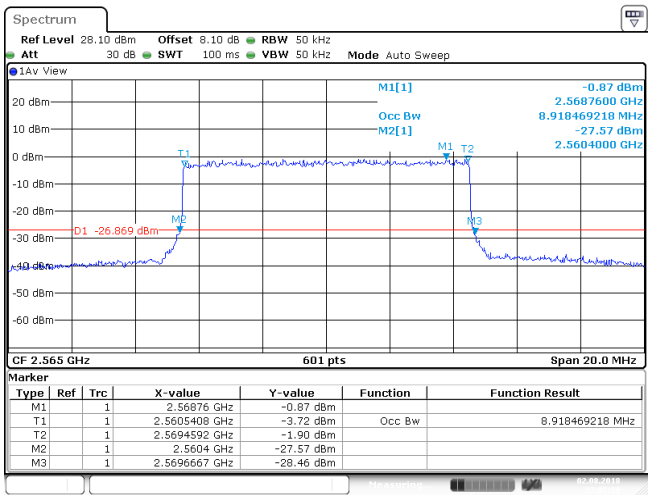
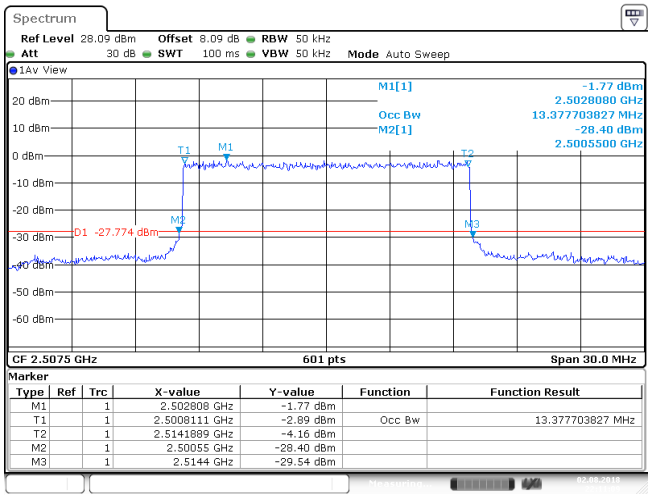
Band7_10MHz_16QAM_21400_50RB#0



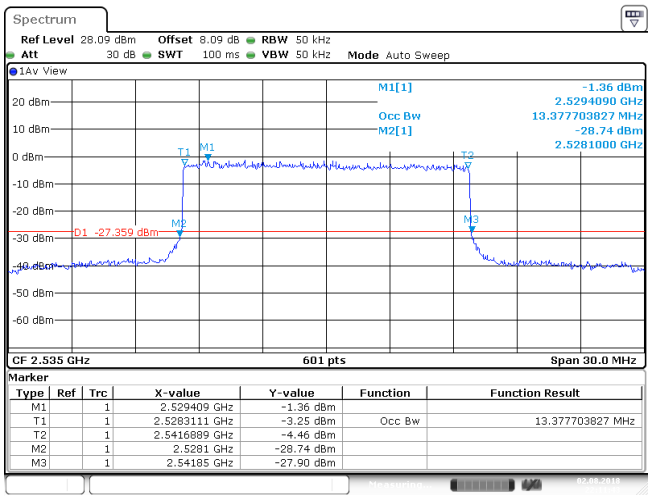
Date: 2.AUG.2018 22:05:39

Band7_15MHz_QPSK_20825_75RB#0



Date: 2.AUG.2018 22:11:09

Band7_15MHz_QPSK_21100_75RB#0



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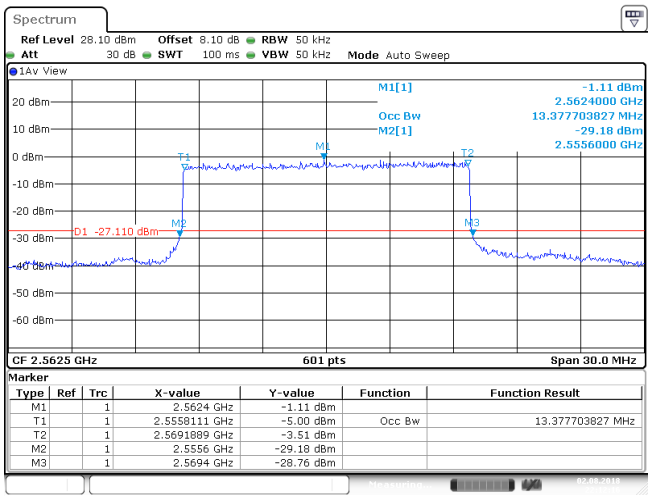
Band7_15MHz_QPSK_21375_75RB#0



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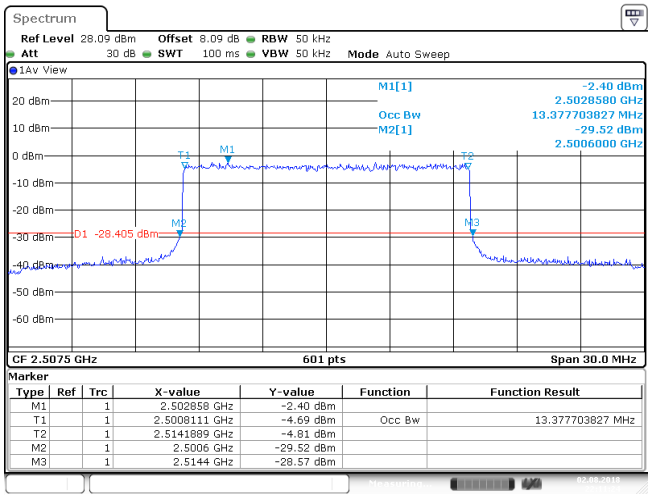
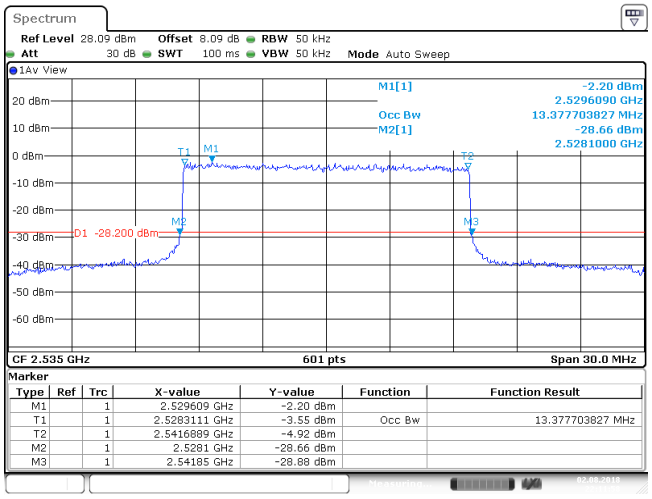
Band7_15MHz_16QAM_20825_75RB#0



Date: 2.AUG.2018 22:11:24

Band7_15MHz_16QAM_21100_75RB#0



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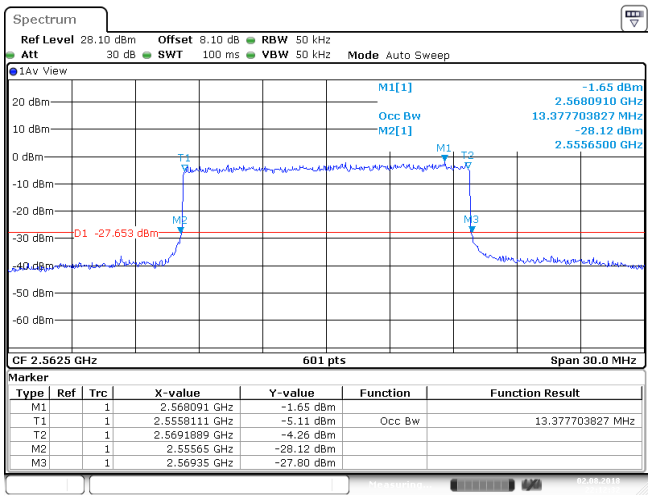
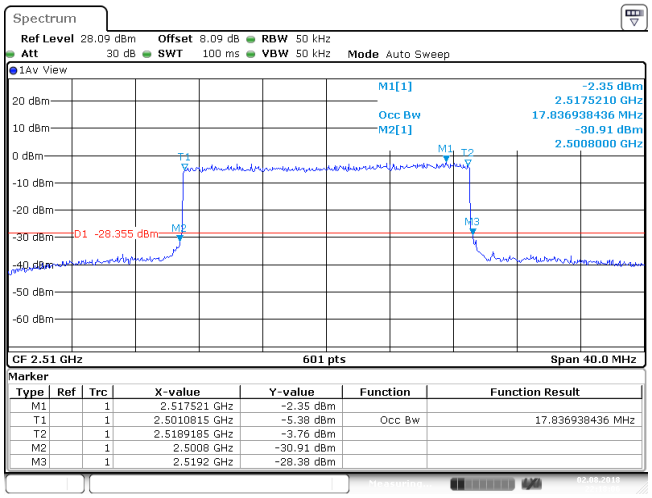


Date: 2.AUG.2018 22:12:31

Band7_20MHz_QPSK_20850_100RB#0



Date: 2.AUG.2018 22:18:05

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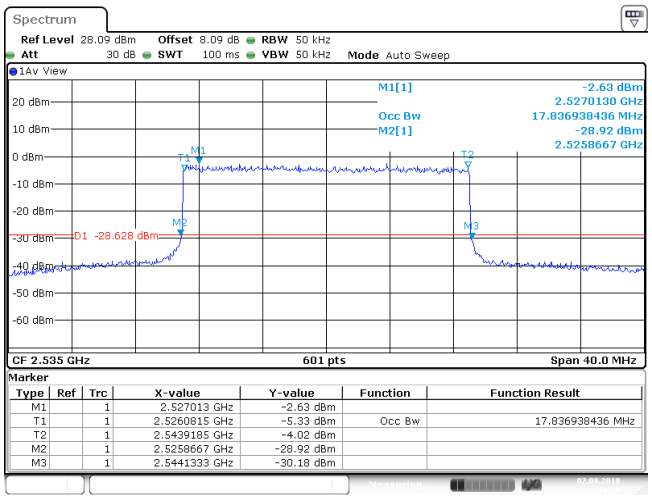

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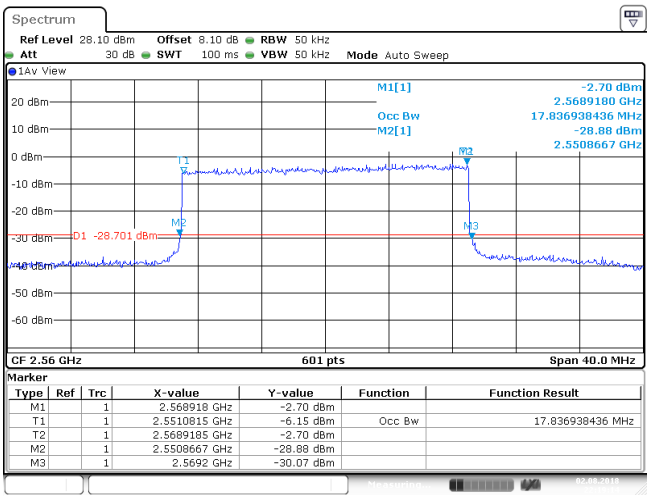

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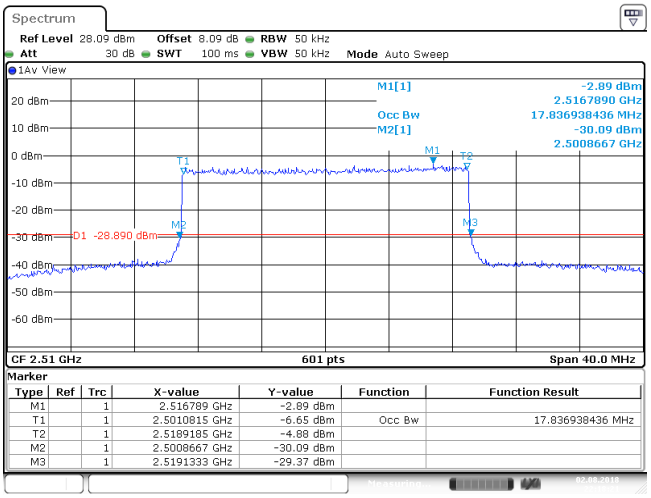
Band7_20MHz_16QAM_20850_100RB#0



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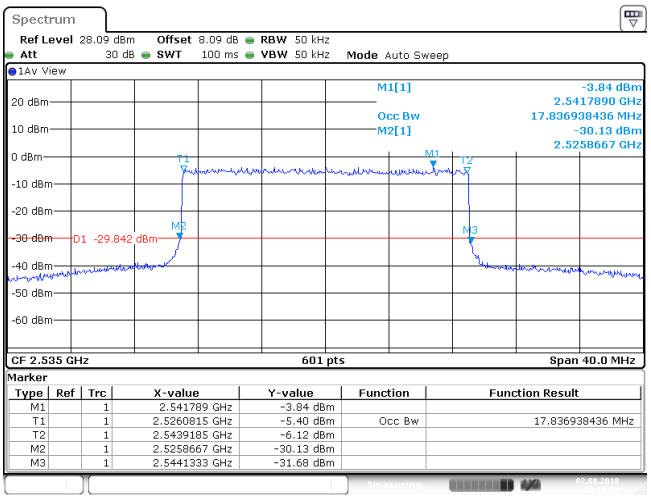
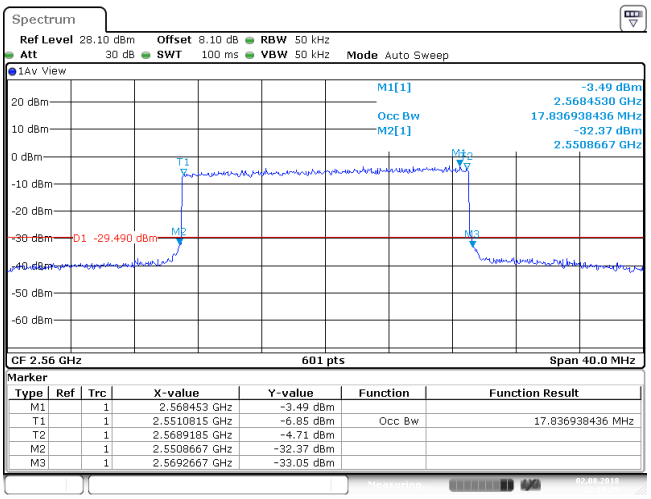
Band7_20MHz_16QAM_21100_100RB#0



Date: 2.AUG.2018 22:18:55

Band7_20MHz_16QAM_21350_100RB#0



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.568453 GHz	-3.49 dBm		
T1		1	2.5510815 GHz	-6.85 dBm	Occ Bw	17.836938436 MHz
T2		1	2.5689185 GHz	-4.71 dBm		
M2		1	2.5508667 GHz	-32.37 dBm		
M3		1	2.5692667 GHz	-33.05 dBm		

Date: 2.AUG.2018 22:19:29

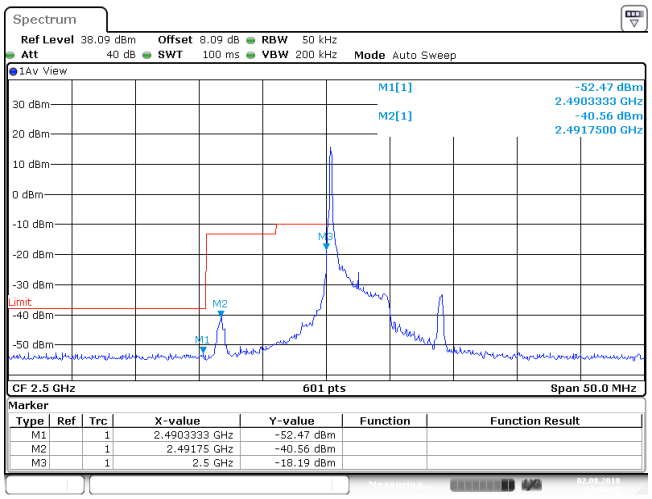
Appendix C: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-52.47,-40.56,-18.19	PASS
Band7	5MHz	QPSK	20775	25RB#0	-50.54,-40.59,-27.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	-51.71,-50.91,-34.40	PASS
Band7	5MHz	QPSK	21425	25RB#0	-42.16,-40.45,-30.59	PASS
Band7	5MHz	16QAM	20775	1RB#0	-52.53,-42.79,-21.17	PASS
Band7	5MHz	16QAM	20775	25RB#0	-52.21,-42.84,-29.21	PASS
Band7	5MHz	16QAM	21425	1RB#0	-51.62,-50.42,-34.28	PASS
Band7	5MHz	16QAM	21425	25RB#0	-43.91,-41.95,-32.07	PASS
Band7	10MHz	QPSK	20800	1RB#0	-43.40,-47.19,-28.28	PASS
Band7	10MHz	QPSK	20800	50RB#0	-44.71,-33.96,-29.90	PASS
Band7	10MHz	QPSK	21400	1RB#0	-50.65,-32.44,-41.99	PASS
Band7	10MHz	QPSK	21400	50RB#0	-41.74,-35.60,-30.94	PASS
Band7	10MHz	16QAM	20800	1RB#0	-42.16,-46.98,-27.55	PASS
Band7	10MHz	16QAM	20800	50RB#0	-45.40,-37.25,-32.03	PASS
Band7	10MHz	16QAM	21400	1RB#0	-50.71,-33.61,-41.40	PASS
Band7	10MHz	16QAM	21400	50RB#0	-41.99,-37.18,-32.69	PASS
Band7	15MHz	QPSK	20825	1RB#0	-50.74,-42.87,-30.18	PASS
Band7	15MHz	QPSK	20825	75RB#0	-39.77,-34.39,-32.57	PASS
Band7	15MHz	QPSK	21375	1RB#0	-50.77,-33.83,-45.62	PASS
Band7	15MHz	QPSK	21375	75RB#0	-43.81,-33.45,-30.77	PASS
Band7	15MHz	16QAM	20825	1RB#0	-50.17,-42.38,-29.71	PASS
Band7	15MHz	16QAM	20825	75RB#0	-41.88,-35.57,-33.89	PASS
Band7	15MHz	16QAM	21375	1RB#0	-51.03,-34.78,-45.40	PASS
Band7	15MHz	16QAM	21375	75RB#0	-43.50,-35.60,-33.07	PASS
Band7	20MHz	QPSK	20850	1RB#0	-50.29,-43.04,-34.01	PASS
Band7	20MHz	QPSK	20850	100RB#0	-38.27,-34.36,-34.01	PASS
Band7	20MHz	QPSK	21350	1RB#0	-50.88,-36.05,-46.51	PASS
Band7	20MHz	QPSK	21350	100RB#0	-44.49,-33.96,-32.44	PASS
Band7	20MHz	16QAM	20850	1RB#0	-49.52,-44.12,-35.77	PASS
Band7	20MHz	16QAM	20850	100RB#0	-40.53,-36.70,-35.06	PASS
Band7	20MHz	16QAM	21350	1RB#0	-49.95,-36.39,-46.57	PASS
Band7	20MHz	16QAM	21350	100RB#0	-44.98,-36.08,-33.70	PASS

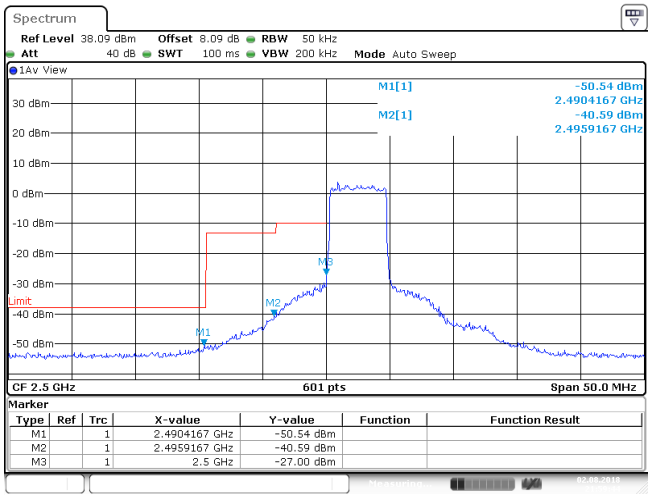
Test Graphs

Band7_5MHz_QPSK_20775_1RB#0



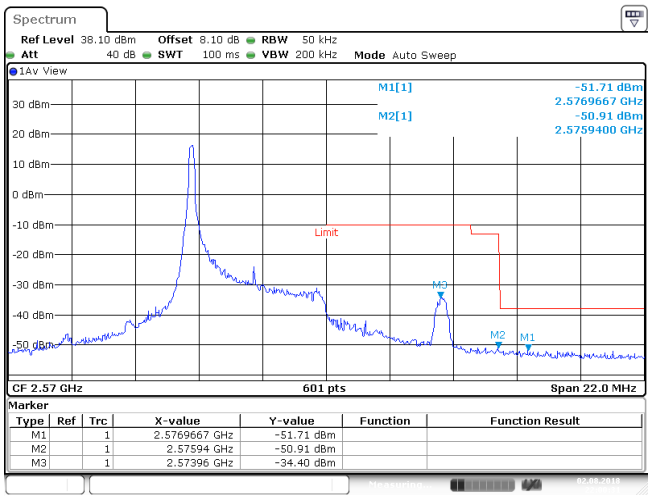
Date: 2.AUG.2018 21:59:12

Band7_5MHz_QPSK_20775_25RB#0



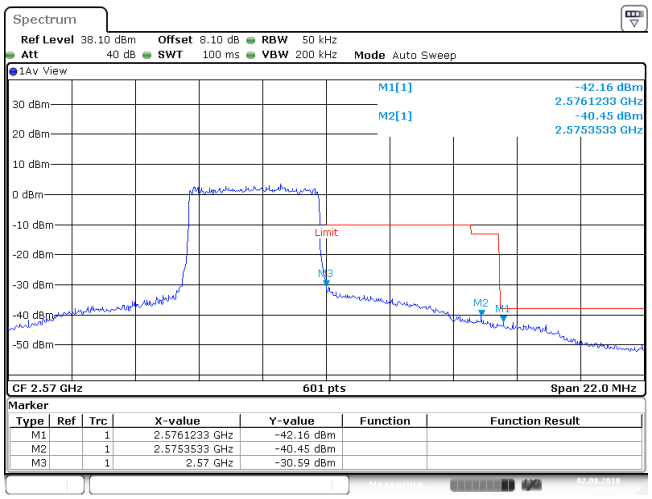
Date: 2.AUG.2018 21:59:44

Band7_5MHz_QPSK_21425_1RB#0



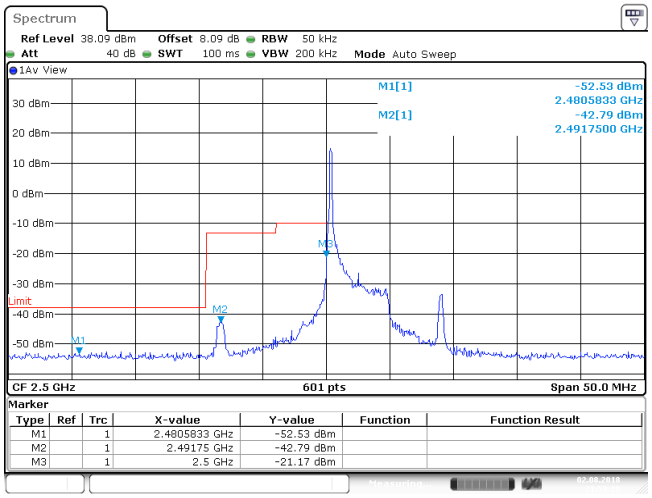
Date: 2.AUG.2018 22:00:30

Band7_5MHz_QPSK_21425_25RB#0



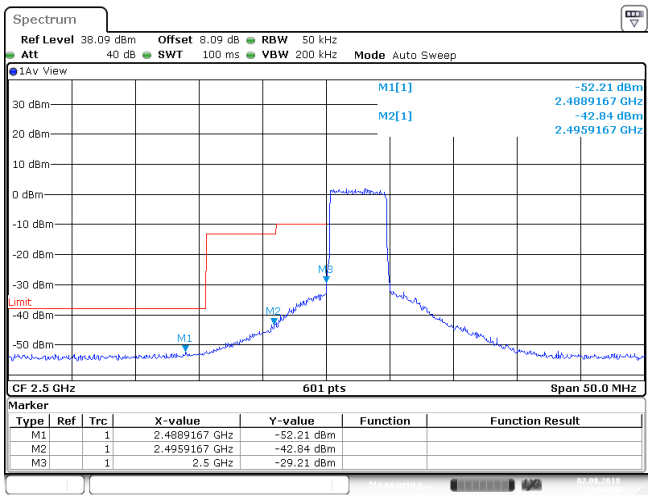
Date: 2.AUG.2018 22:01:02

Band7_5MHz_16QAM_20775_1RB#0



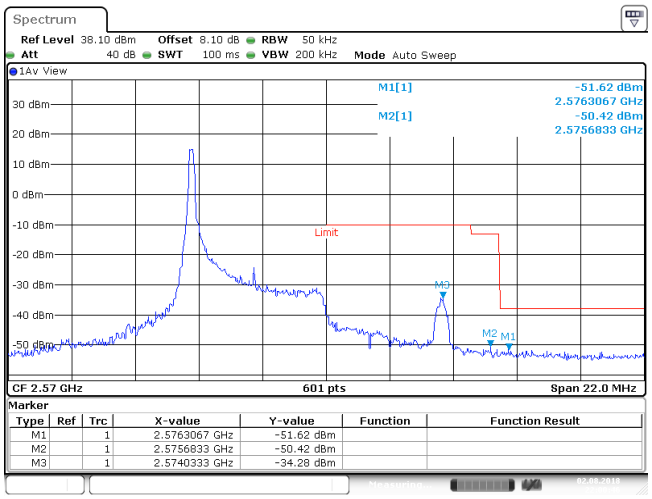
Date: 2.AUG.2018 21:59:28

Band7_5MHz_16QAM_20775_25RB#0



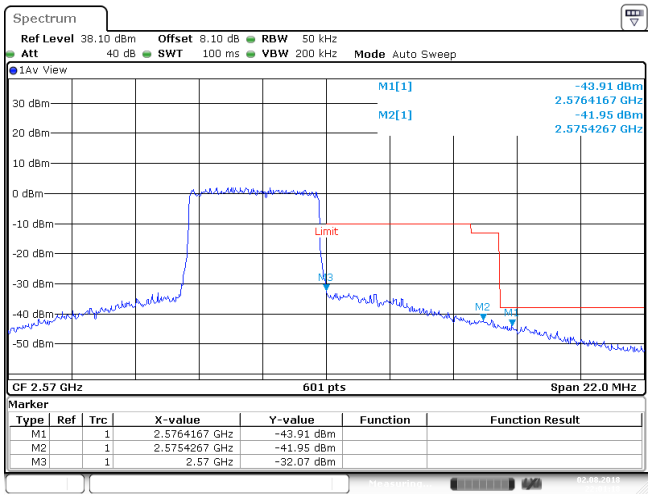
Date: 2.AUG.2018 22:00:00

Band7_5MHz_16QAM_21425_1RB#0



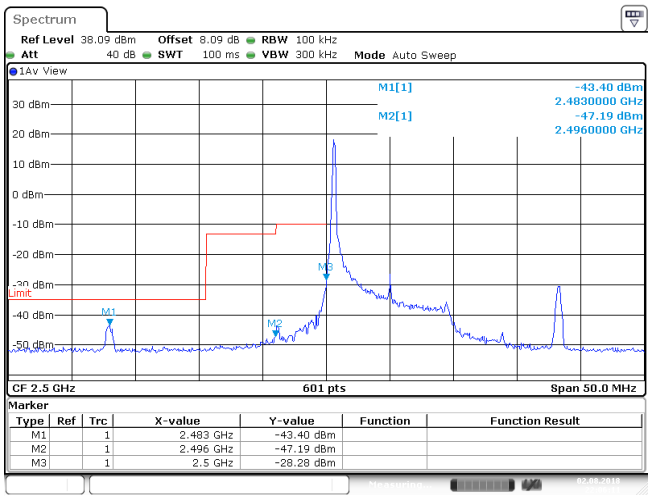
Date: 2.AUG.2018 22:00:46

Band7_5MHz_16QAM_21425_25RB#0



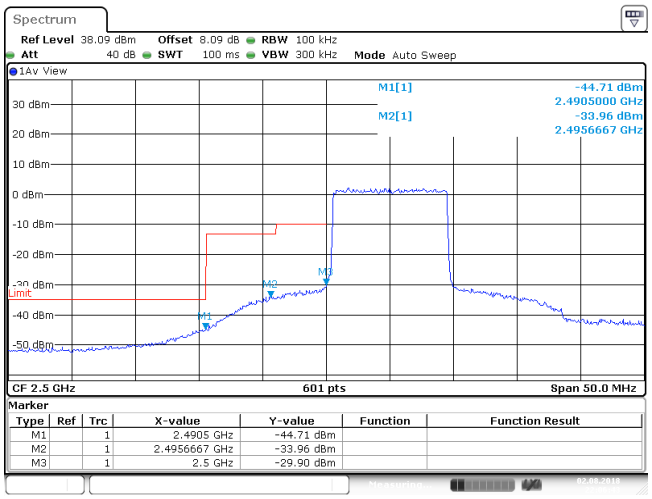
Date: 2.AUG.2018 22:01:18

Band7_10MHz_QPSK_20800_1RB#0



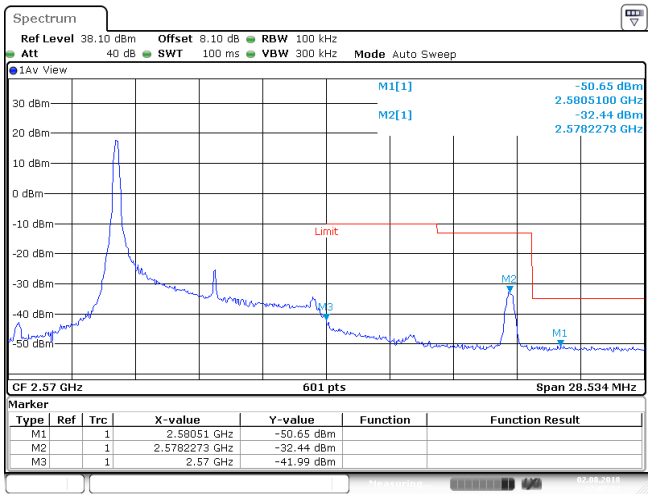
Date: 2.AUG.2018 22:06:10

Band7_10MHz_QPSK_20800_50RB#0



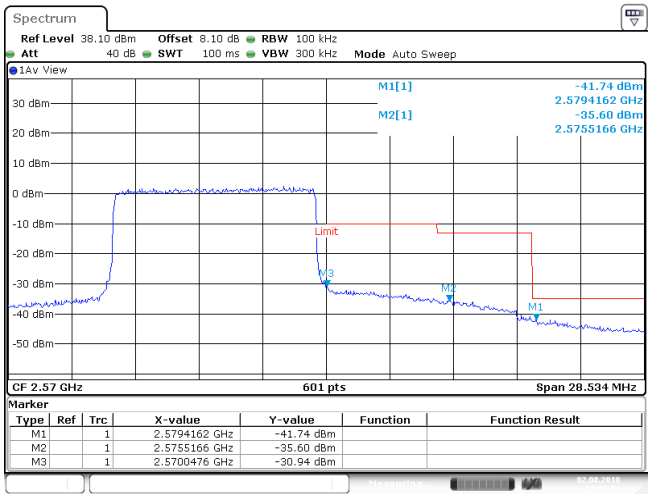
Date: 2.AUG.2018 22:06:43

Band7_10MHz_QPSK_21400_1RB#0



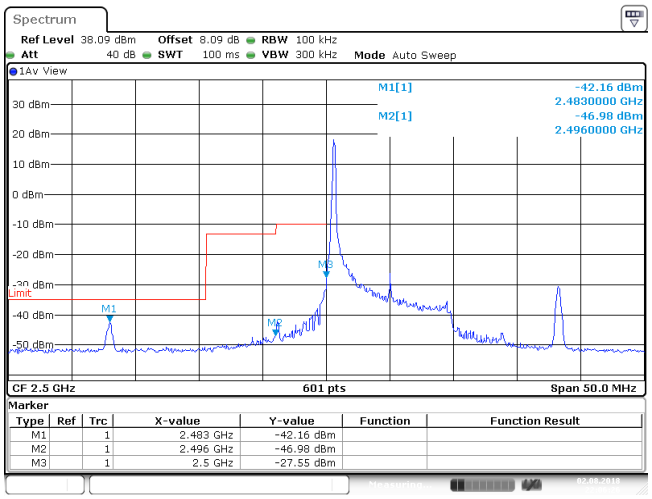
Date: 2.AUG.2018 22:07:21

Band7_10MHz_QPSK_21400_50RB#0



Date: 2.AUG.2018 22:07:54

Band7_10MHz_16QAM_20800_1RB#0



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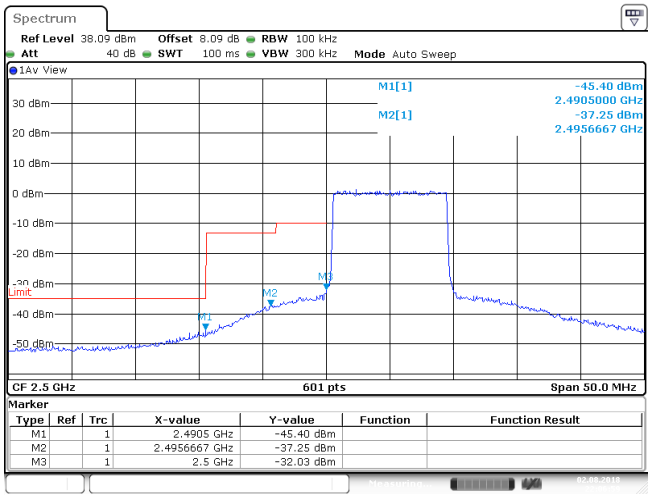
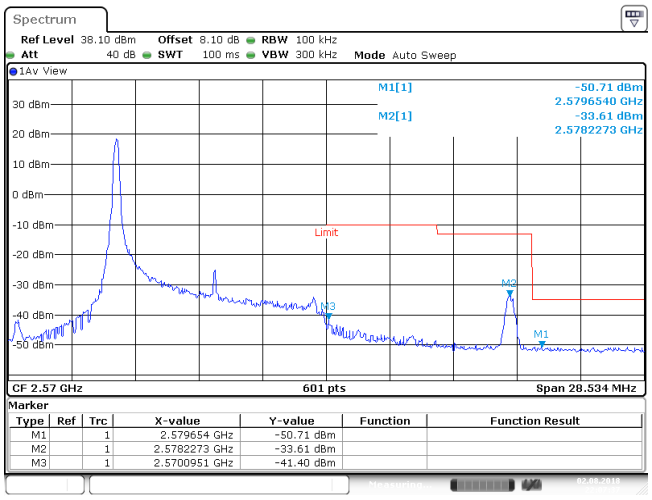
Band7_10MHz_16QAM_20800_50RB#0



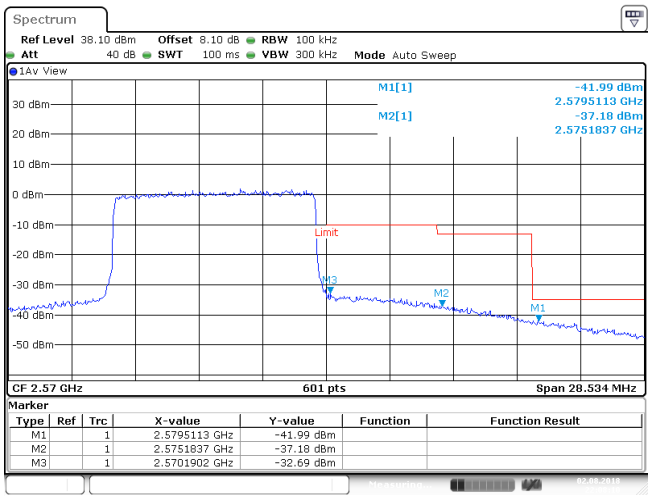
Date: 2.AUG.2018 22:06:59

Band7_10MHz_16QAM_21400_1RB#0



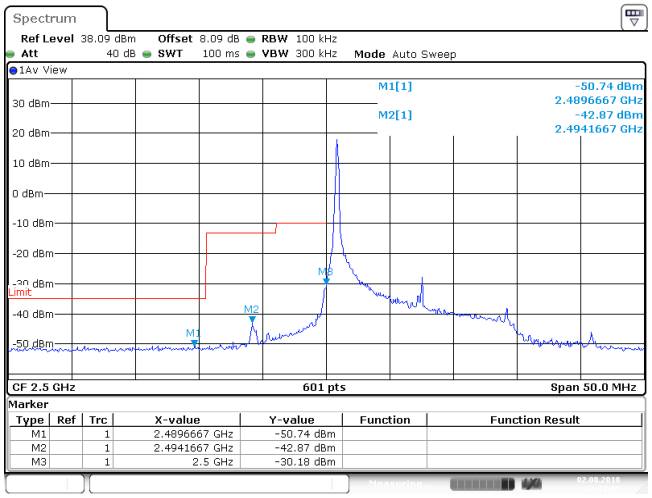
Date: 2.AUG.2018 22:07:37

Band7_10MHz_16QAM_21400_50RB#0



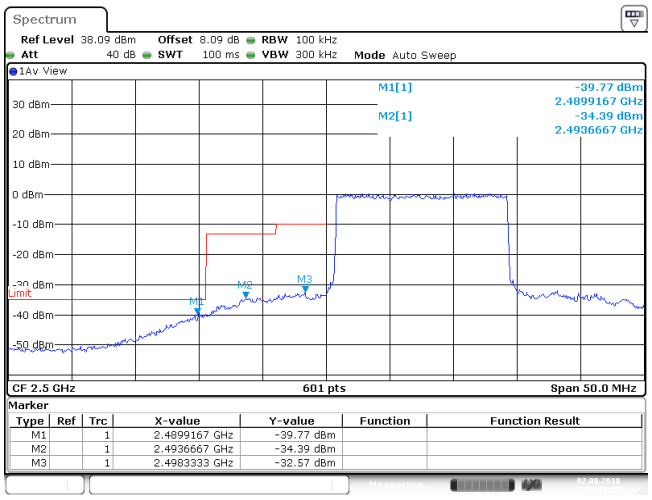
Date: 2.AUG.2018 22:08:10

Band7_15MHz_QPSK_20825_1RB#0



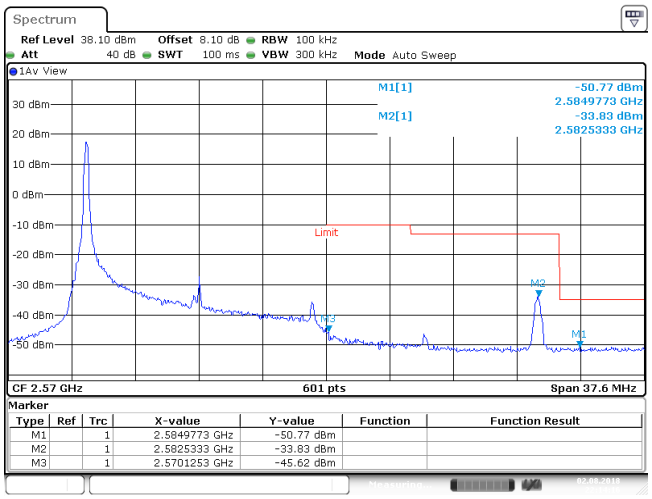
Date: 2.AUG.2018 22:13:02

Band7_15MHz_QPSK_20825_75RB#0



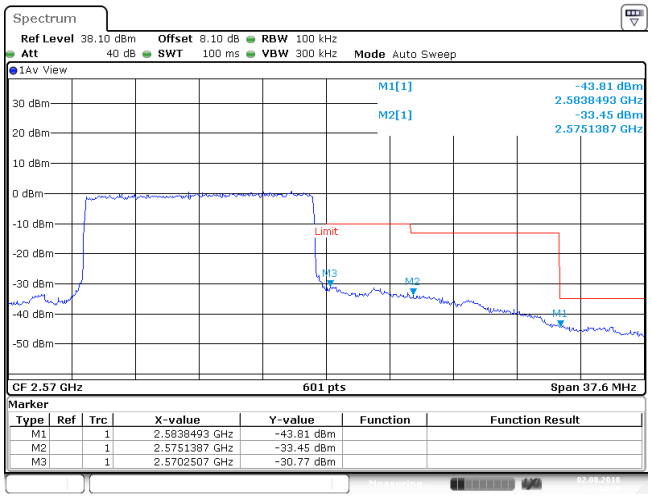
Date: 2.AUG.2018 22:13:36

Band7_15MHz_QPSK_21375_1RB#0



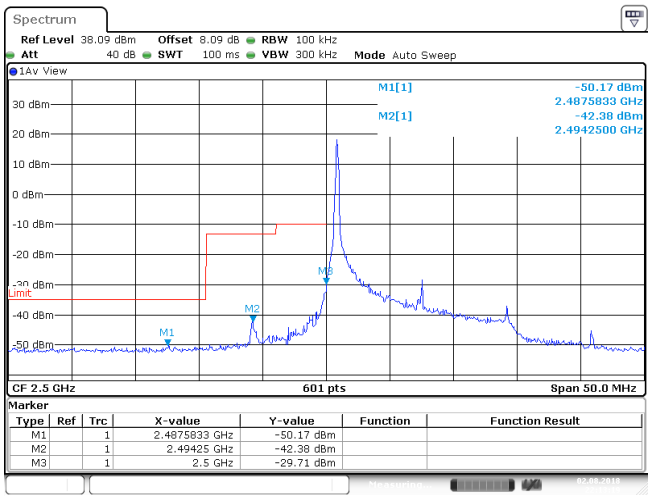
Date: 2.AUG.2018 22:14:17

Band7_15MHz_QPSK_21375_75RB#0



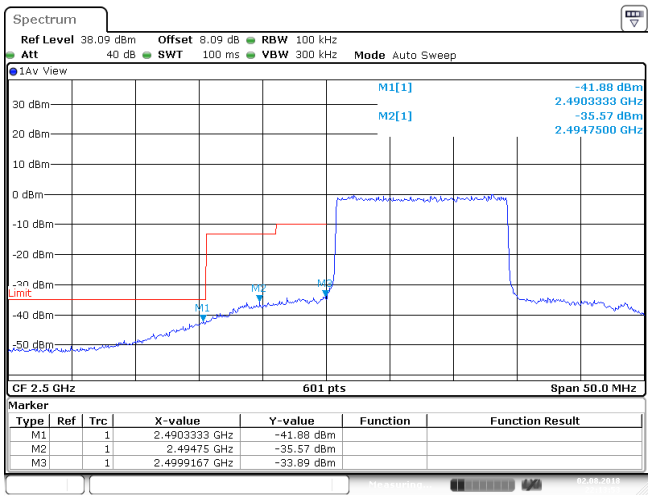
Date: 2.AUG.2018 22:14:50

Band7_15MHz_16QAM_20825_1RB#0



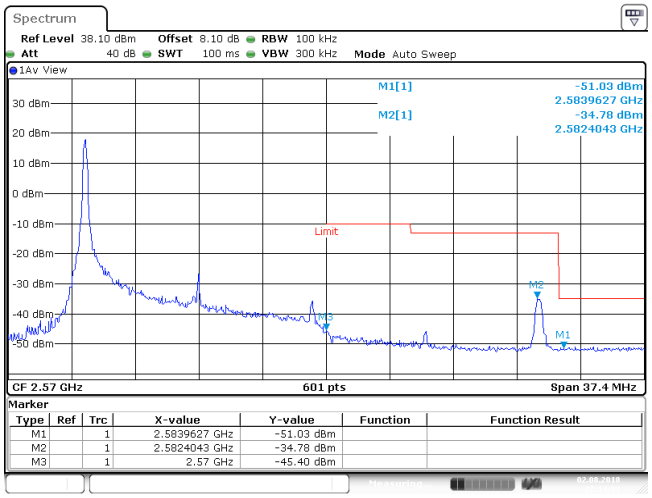
Date: 2.AUG.2018 22:13:19

Band7_15MHz_16QAM_20825_75RB#0



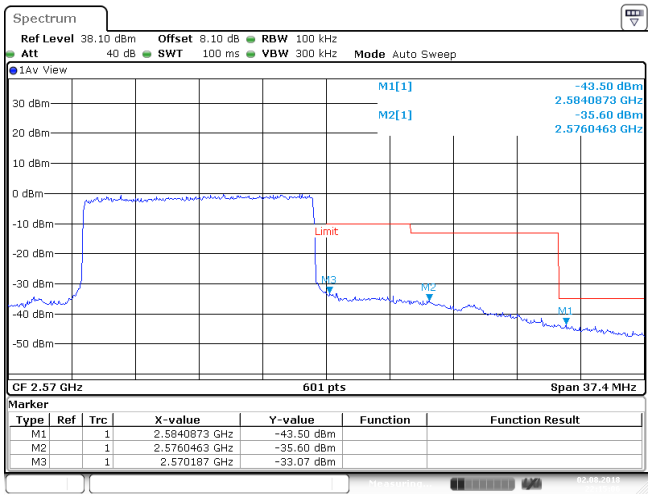
Date: 2.AUG.2018 22:13:52

Band7_15MHz_16QAM_21375_1RB#0



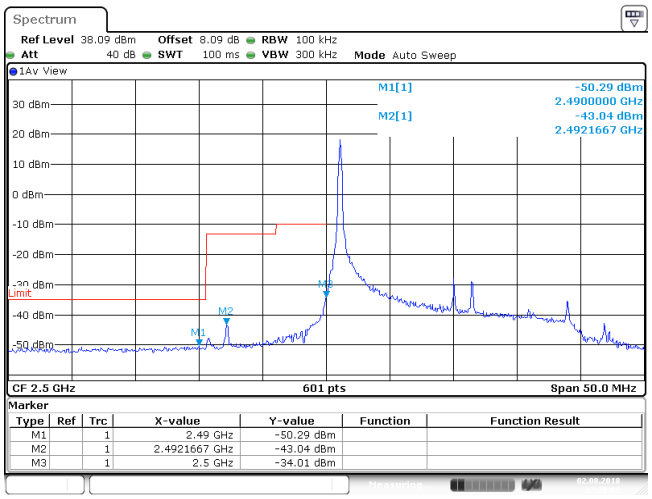
Date: 2.AUG.2018 22:14:33

Band7_15MHz_16QAM_21375_75RB#0



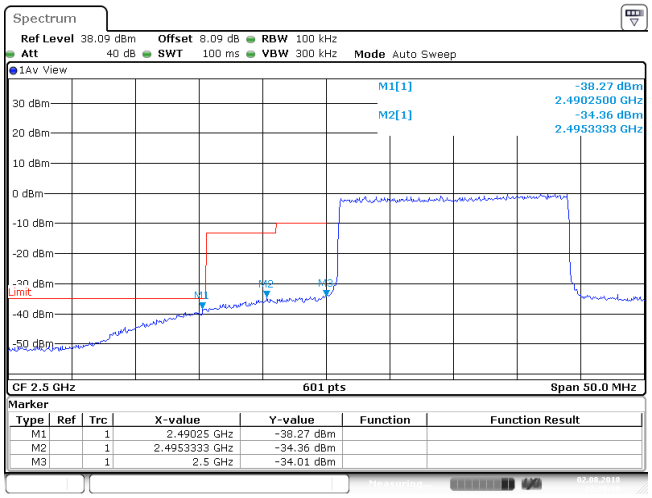
Date: 2.AUG.2018 22:15:06

Band7_20MHz_QPSK_20850_1RB#0



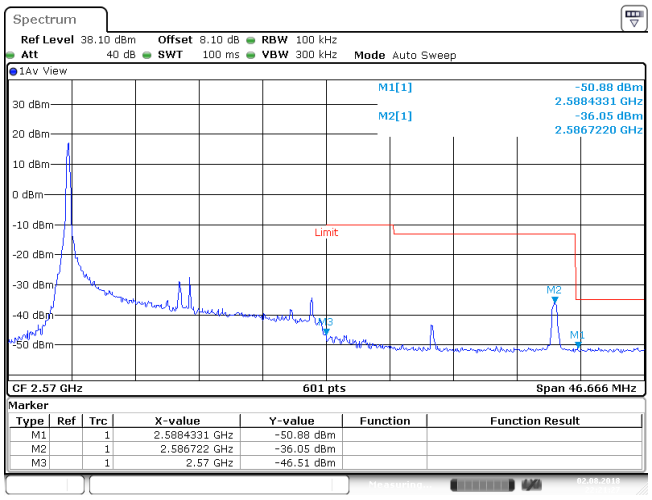
Date: 2.AUG.2018 22:20:02

Band7_20MHz_QPSK_20850_100RB#0



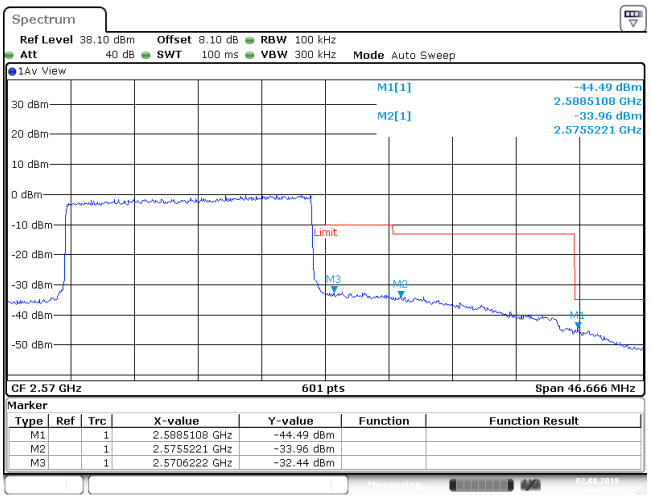
Date: 2.AUG.2018 22:20:37

Band7_20MHz_QPSK_21350_1RB#0



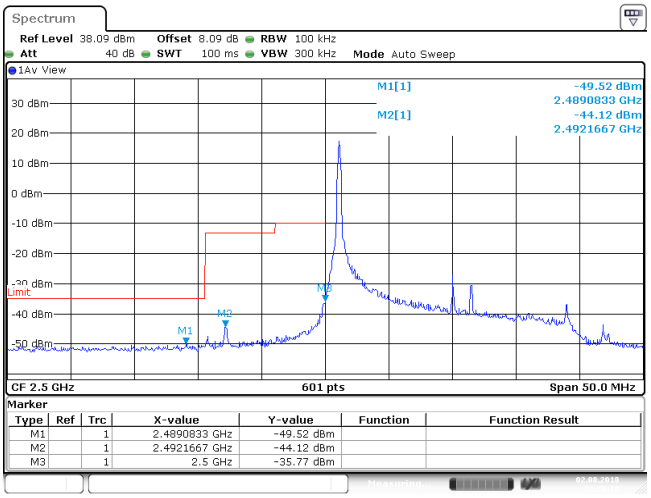
Date: 2.AUG.2018 22:21:27

Band7_20MHz_QPSK_21350_100RB#0



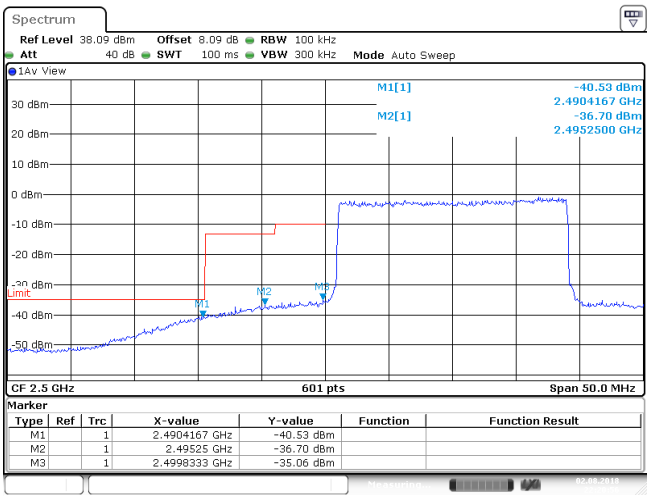
Date: 2.AUG.2018 22:22:02

Band7_20MHz_16QAM_20850_1RB#0



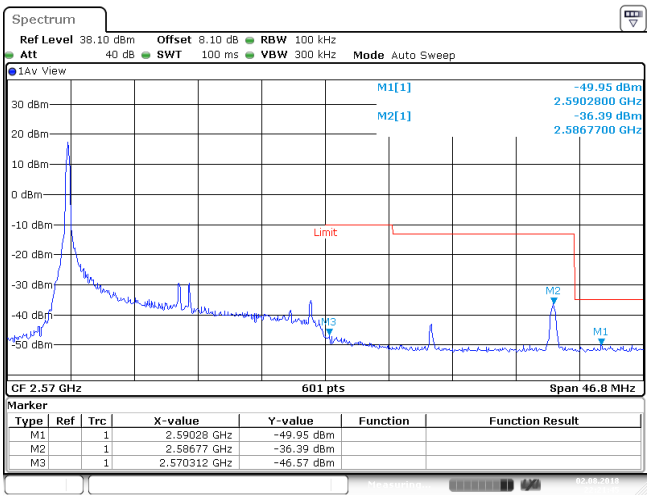
Date: 2.AUG.2018 22:20:20

Band7_20MHz_16QAM_20850_100RB#0



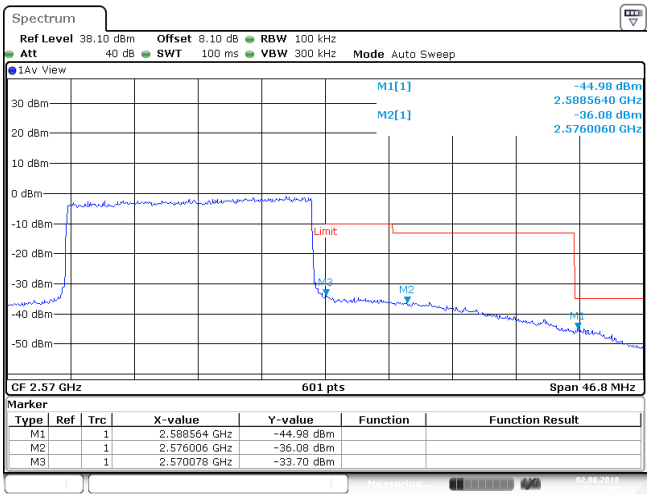
Date: 2.AUG.2018 22:20:55

Band7_20MHz_16QAM_21350_1RB#0



Date: 2.AUG.2018 22:21:45

Band7_20MHz_16QAM_21350_100RB#0



Date: 2.AUG.2018 22:22:20