



Appendix B

E-UTRA Band 12



CONTENT

	Page
1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	3
2 PEAK-TO-AVERAGE RATIO	15
2.1 FOR LTE	16
2.1.1 Test Band = LTE band12.....	16
3 MODULATION CHARACTERISTICS	21
3.1 FOR LTE	21
3.1.1 Test Band = LTE band12.....	21
4 BANDWIDTH	23
4.1 FOR LTE	24
4.1.1 Test Band = LTE band12.....	24
5 BAND EDGES COMPLIANCE	43
5.1 FOR LTE	43
5.1.1 Test Band = LTE band12.....	43
6 SPURIOUS EMISSION AT ANTENNA TERMINAL.....	68
6.1 FOR LTE	68
7 FIELD STRENGTH OF SPURIOUS RADIATION	75
7.1 FOR LTE	75
7.1.1 Test Band = LTE band12.....	75
8 FREQUENCY STABILITY	77
8.1 FREQUENCY ERROR VS. VOLTAGE	77
8.2 FREQUENCY ERROR VS. TEMPERATURE	78



1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 12

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM1	1.4M	LCH	RB1#0	23.61	20.01	34.77	PASS
				RB1#2	23.37	19.77	34.77	PASS
				RB1#5	23.66	20.06	34.77	PASS
				RB3#0	23.51	19.91	34.77	PASS
				RB3#2	23.52	19.92	34.77	PASS
				RB3#3	23.57	19.97	34.77	PASS
				RB6#0	22.53	18.93	34.77	PASS
			MCH	RB1#0	23.64	20.04	34.77	PASS
				RB1#2	23.10	19.5	34.77	PASS
				RB1#5	23.70	20.1	34.77	PASS
				RB3#0	23.54	19.94	34.77	PASS
				RB3#2	23.54	19.94	34.77	PASS
				RB3#3	23.61	20.01	34.77	PASS
				RB6#0	22.53	18.93	34.77	PASS
			HCH	RB1#0	23.62	20.02	34.77	PASS
				RB1#2	23.41	19.81	34.77	PASS
				RB1#5	23.71	20.11	34.77	PASS
				RB3#0	23.54	19.94	34.77	PASS
				RB3#2	23.47	19.87	34.77	PASS
				RB3#3	23.58	19.98	34.77	PASS
				RB6#0	22.64	19.04	34.77	PASS



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Shenzhen Branch

Report No.: SZEM171001122301

Page: 4 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM2	1.4M	LCH	RB1#0	23.05	19.45	34.77	PASS
				RB1#2	22.60	19.00	34.77	PASS
				RB1#5	23.01	19.41	34.77	PASS
				RB3#0	22.63	19.03	34.77	PASS
				RB3#2	22.48	18.88	34.77	PASS
				RB3#3	22.68	19.08	34.77	PASS
				RB6#0	21.56	17.96	34.77	PASS
			MCH	RB1#0	22.99	19.39	34.77	PASS
				RB1#2	22.59	18.99	34.77	PASS
				RB1#5	22.95	19.35	34.77	PASS
				RB3#0	22.64	19.04	34.77	PASS
				RB3#2	22.50	18.9	34.77	PASS
				RB3#3	22.65	19.05	34.77	PASS
				RB6#0	21.59	17.99	34.77	PASS
			HCH	RB1#0	22.86	19.26	34.77	PASS
				RB1#2	22.68	19.08	34.77	PASS
				RB1#5	22.90	19.3	34.77	PASS
				RB3#0	22.57	18.97	34.77	PASS
				RB3#2	22.63	19.03	34.77	PASS
				RB3#3	22.59	18.99	34.77	PASS
				RB6#0	21.66	18.06	34.77	PASS

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Shenzhen Branch

Report No.: SZEM171001122301

Page: 5 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM3	1.4M	LCH	RB1#0	22.46	18.86	34.77	PASS
				RB1#2	22.33	18.73	34.77	PASS
				RB1#5	22.44	18.84	34.77	PASS
				RB3#0	22.42	18.82	34.77	PASS
				RB3#2	22.37	18.77	34.77	PASS
				RB3#3	22.36	18.76	34.77	PASS
				RB6#0	21.3	17.7	34.77	PASS
			MCH	RB1#0	22.5	18.9	34.77	PASS
				RB1#2	22.38	18.78	34.77	PASS
				RB1#5	22.5	18.9	34.77	PASS
				RB3#0	22.32	18.72	34.77	PASS
				RB3#2	22.35	18.75	34.77	PASS
				RB3#3	22.41	18.81	34.77	PASS
				RB6#0	21.37	17.77	34.77	PASS
			HCH	RB1#0	22.47	18.87	34.77	PASS
				RB1#2	22.21	18.61	34.77	PASS
				RB1#5	22.49	18.89	34.77	PASS
				RB3#0	22.34	18.74	34.77	PASS
				RB3#2	22.27	18.67	34.77	PASS
				RB3#3	22.44	18.84	34.77	PASS
				RB6#0	21.31	17.71	34.77	PASS



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Report No.: SZEM171001122301

Page: 6 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM1	3M	LCH	RB1#0	23.68	20.08	34.77	PASS
				RB1#7	22.98	19.38	34.77	PASS
				RB1#14	23.69	20.09	34.77	PASS
				RB8#0	22.70	19.1	34.77	PASS
				RB8#4	22.63	19.03	34.77	PASS
				RB8#7	22.60	19	34.77	PASS
				RB15#0	22.66	19.06	34.77	PASS
			MCH	RB1#0	23.68	20.08	34.77	PASS
				RB1#7	23.24	19.64	34.77	PASS
				RB1#14	23.71	20.11	34.77	PASS
				RB8#0	22.65	19.05	34.77	PASS
				RB8#4	22.56	18.96	34.77	PASS
				RB8#7	22.59	18.99	34.77	PASS
				RB15#0	22.63	19.03	34.77	PASS
			HCH	RB1#0	23.62	20.02	34.77	PASS
				RB1#7	23.32	19.72	34.77	PASS
				RB1#14	23.66	20.06	34.77	PASS
				RB8#0	22.65	19.05	34.77	PASS
				RB8#4	22.57	18.97	34.77	PASS
				RB8#7	22.59	18.99	34.77	PASS
				RB15#0	22.62	19.02	34.77	PASS



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Report No.: SZEM171001122301

Page: 7 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM2	3M	LCH	RB1#0	22.82	19.22	34.77	PASS
				RB1#7	22.63	19.03	34.77	PASS
				RB1#14	22.88	19.28	34.77	PASS
				RB8#0	21.58	17.98	34.77	PASS
				RB8#4	21.59	17.99	34.77	PASS
				RB8#7	21.66	18.06	34.77	PASS
				RB15#0	21.58	17.98	34.77	PASS
			MCH	RB1#0	22.90	19.3	34.77	PASS
				RB1#7	22.82	19.22	34.77	PASS
				RB1#14	22.92	19.32	34.77	PASS
				RB8#0	21.62	18.02	34.77	PASS
				RB8#4	21.58	17.98	34.77	PASS
				RB8#7	21.68	18.08	34.77	PASS
				RB15#0	21.56	17.96	34.77	PASS
			HCH	RB1#0	22.89	19.29	34.77	PASS
				RB1#7	22.64	19.04	34.77	PASS
				RB1#14	22.89	19.29	34.77	PASS
				RB8#0	21.63	18.03	34.77	PASS
				RB8#4	21.56	17.96	34.77	PASS
				RB8#7	21.59	17.99	34.77	PASS
				RB15#0	21.58	17.98	34.77	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM171001122301

Page: 8 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM3	3M	LCH	RB1#0	22.48	18.88	34.77	PASS
				RB1#7	22.45	18.85	34.77	PASS
				RB1#14	22.46	18.86	34.77	PASS
				RB8#0	21.35	17.75	34.77	PASS
				RB8#4	21.44	17.84	34.77	PASS
				RB8#7	21.41	17.81	34.77	PASS
				RB15#0	21.41	17.81	34.77	PASS
			MCH	RB1#0	22.49	18.89	34.77	PASS
				RB1#7	22.4	18.8	34.77	PASS
				RB1#14	22.49	18.89	34.77	PASS
				RB8#0	21.39	17.79	34.77	PASS
				RB8#4	21.38	17.78	34.77	PASS
				RB8#7	21.44	17.84	34.77	PASS
				RB15#0	21.4	17.8	34.77	PASS
			HCH	RB1#0	22.47	18.87	34.77	PASS
				RB1#7	22.32	18.72	34.77	PASS
				RB1#14	22.44	18.84	34.77	PASS
				RB8#0	21.42	17.82	34.77	PASS
				RB8#4	21.39	17.79	34.77	PASS
				RB8#7	21.42	17.82	34.77	PASS
				RB15#0	21.36	17.76	34.77	PASS



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Report No.: SZEM171001122301

Page: 9 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM1	5M	LCH	RB1#0	23.65	20.05	34.77	PASS
				RB1#13	23.64	20.04	34.77	PASS
				RB1#24	23.70	20.1	34.77	PASS
				RB12#0	22.74	19.14	34.77	PASS
				RB12#6	22.64	19.04	34.77	PASS
				RB12#13	22.75	19.15	34.77	PASS
				RB25#0	22.68	19.08	34.77	PASS
			MCH	RB1#0	23.66	20.06	34.77	PASS
				RB1#13	23.63	20.03	34.77	PASS
				RB1#24	23.69	20.09	34.77	PASS
				RB12#0	22.70	19.1	34.77	PASS
				RB12#6	22.67	19.07	34.77	PASS
				RB12#13	22.75	19.15	34.77	PASS
				RB25#0	22.68	19.08	34.77	PASS
			HCH	RB1#0	23.61	20.01	34.77	PASS
				RB1#13	23.66	20.06	34.77	PASS
				RB1#24	23.66	20.06	34.77	PASS
				RB12#0	22.70	19.1	34.77	PASS
				RB12#6	22.64	19.04	34.77	PASS
				RB12#13	22.70	19.1	34.77	PASS
				RB25#0	22.65	19.05	34.77	PASS



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Shenzhen Branch

Report No.: SZEM171001122301

Page: 10 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM2	5M	LCH	RB1#0	22.87	19.27	34.77	PASS
				RB1#13	22.90	19.30	34.77	PASS
				RB1#24	22.90	19.30	34.77	PASS
				RB12#0	21.67	18.07	34.77	PASS
				RB12#6	21.67	18.07	34.77	PASS
				RB12#13	21.70	18.10	34.77	PASS
				RB25#0	21.59	17.99	34.77	PASS
			MCH	RB1#0	22.92	19.32	34.77	PASS
				RB1#13	22.98	19.38	34.77	PASS
				RB1#24	23.00	19.40	34.77	PASS
				RB12#0	21.66	18.06	34.77	PASS
				RB12#6	21.60	18.00	34.77	PASS
				RB12#13	21.73	18.13	34.77	PASS
				RB25#0	21.62	18.02	34.77	PASS
			HCH	RB1#0	22.88	19.28	34.77	PASS
				RB1#13	22.99	19.39	34.77	PASS
				RB1#24	22.92	19.32	34.77	PASS
				RB12#0	21.58	17.98	34.77	PASS
				RB12#6	21.51	17.91	34.77	PASS
				RB12#13	21.65	18.05	34.77	PASS
				RB25#0	21.58	17.98	34.77	PASS



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Shenzhen Branch

Report No.: SZEM171001122301

Page: 11 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM3	5M	LCH	RB1#0	22.48	18.88	34.77	PASS
				RB1#13	22.49	18.89	34.77	PASS
				RB1#24	22.5	18.90	34.77	PASS
				RB12#0	21.5	17.90	34.77	PASS
				RB12#6	21.44	17.84	34.77	PASS
				RB12#13	21.46	17.86	34.77	PASS
				RB25#0	21.38	17.78	34.77	PASS
			MCH	RB1#0	22.46	18.86	34.77	PASS
				RB1#13	22.49	18.89	34.77	PASS
				RB1#24	22.43	18.83	34.77	PASS
				RB12#0	21.46	17.86	34.77	PASS
				RB12#6	21.44	17.84	34.77	PASS
				RB12#13	21.44	17.84	34.77	PASS
				RB25#0	21.4	17.80	34.77	PASS
			HCH	RB1#0	22.44	18.84	34.77	PASS
				RB1#13	22.46	18.86	34.77	PASS
				RB1#24	22.48	18.88	34.77	PASS
				RB12#0	21.5	17.90	34.77	PASS
				RB12#6	21.43	17.83	34.77	PASS
				RB12#13	21.42	17.82	34.77	PASS
				RB25#0	21.41	17.81	34.77	PASS



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Shenzhen Branch

Report No.: SZEM171001122301

Page: 12 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM1	10M	LCH	RB1#0	23.60	20.00	34.77	PASS
				RB1#25	23.54	19.94	34.77	PASS
				RB1#49	23.79	20.19	34.77	PASS
				RB25#0	22.62	19.02	34.77	PASS
				RB25#13	22.69	19.09	34.77	PASS
				RB25#25	22.67	19.07	34.77	PASS
				RB50#0	22.67	19.07	34.77	PASS
			MCH	RB1#0	23.67	20.07	34.77	PASS
				RB1#25	23.53	19.93	34.77	PASS
				RB1#49	23.76	20.16	34.77	PASS
				RB25#0	22.65	19.05	34.77	PASS
				RB25#13	22.68	19.08	34.77	PASS
				RB25#25	22.72	19.12	34.77	PASS
				RB50#0	22.68	19.08	34.77	PASS
			HCH	RB1#0	23.61	20.01	34.77	PASS
				RB1#25	23.44	19.84	34.77	PASS
				RB1#49	23.72	20.12	34.77	PASS
				RB25#0	22.63	19.03	34.77	PASS
				RB25#13	22.63	19.03	34.77	PASS
				RB25#25	22.72	19.12	34.77	PASS
				RB50#0	22.68	19.08	34.77	PASS



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Shenzhen Branch

Report No.: SZEM171001122301

Page: 13 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM2	10M	LCH	RB1#0	22.85	19.25	34.77	PASS
				RB1#25	22.65	19.05	34.77	PASS
				RB1#49	22.97	19.37	34.77	PASS
				RB25#0	21.59	17.99	34.77	PASS
				RB25#13	21.61	18.01	34.77	PASS
				RB25#25	21.64	18.04	34.77	PASS
				RB50#0	21.61	18.01	34.77	PASS
			MCH	RB1#0	22.77	19.17	34.77	PASS
				RB1#25	22.66	19.06	34.77	PASS
				RB1#49	23.02	19.42	34.77	PASS
				RB25#0	21.61	18.01	34.77	PASS
				RB25#13	21.63	18.03	34.77	PASS
				RB25#25	21.65	18.05	34.77	PASS
				RB50#0	21.59	17.99	34.77	PASS
			HCH	RB1#0	22.76	19.16	34.77	PASS
				RB1#25	22.48	18.88	34.77	PASS
				RB1#49	22.86	19.26	34.77	PASS
				RB25#0	21.56	17.96	34.77	PASS
				RB25#13	21.63	18.03	34.77	PASS
				RB25#25	21.63	18.03	34.77	PASS
				RB50#0	21.60	18.00	34.77	PASS



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Shenzhen Branch

Report No.: SZEM171001122301

Page: 14 of 80

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND12	LTE/TM3	10M	LCH	RB1#0	22.37	18.77	34.77	PASS
				RB1#25	22.01	18.41	34.77	PASS
				RB1#49	22.47	18.87	34.77	PASS
				RB25#0	21.31	17.71	34.77	PASS
				RB25#13	21.35	17.75	34.77	PASS
				RB25#25	21.37	17.77	34.77	PASS
				RB50#0	21.36	17.76	34.77	PASS
			MCH	RB1#0	22.43	18.83	34.77	PASS
				RB1#25	21.99	18.39	34.77	PASS
				RB1#49	22.5	18.9	34.77	PASS
				RB25#0	21.36	17.76	34.77	PASS
				RB25#13	21.35	17.75	34.77	PASS
				RB25#25	21.39	17.79	34.77	PASS
				RB50#0	21.33	17.73	34.77	PASS
			HCH	RB1#0	22.42	18.82	34.77	PASS
				RB1#25	22.23	18.63	34.77	PASS
				RB1#49	22.45	18.85	34.77	PASS
				RB25#0	21.35	17.75	34.77	PASS
				RB25#13	21.37	17.77	34.77	PASS
				RB25#25	21.38	17.78	34.77	PASS
				RB50#0	21.35	17.75	34.77	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 12	TM1/10M	LCH	4.78	13	PASS
		MCH	4.90	13	PASS
		HCH	5.16	13	PASS
	TM2/10M	LCH	5.68	13	PASS
		MCH	5.74	13	PASS
		HCH	5.88	13	PASS
	TM3/10M	LCH	5.94	13	PASS
		MCH	6.03	13	PASS
		HCH	6.23	13	PASS



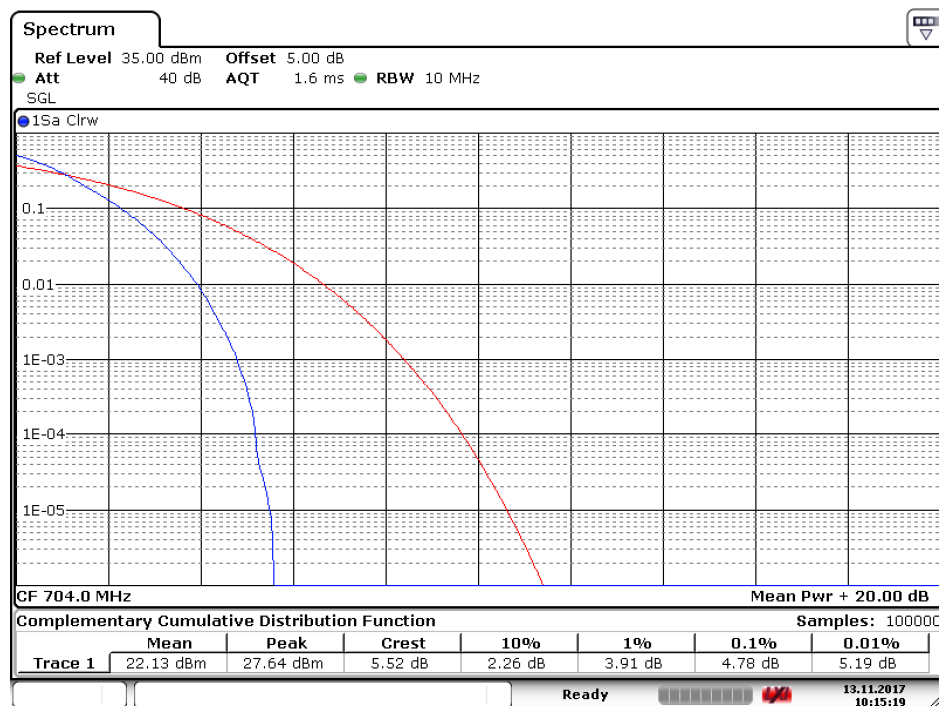
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band12

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz

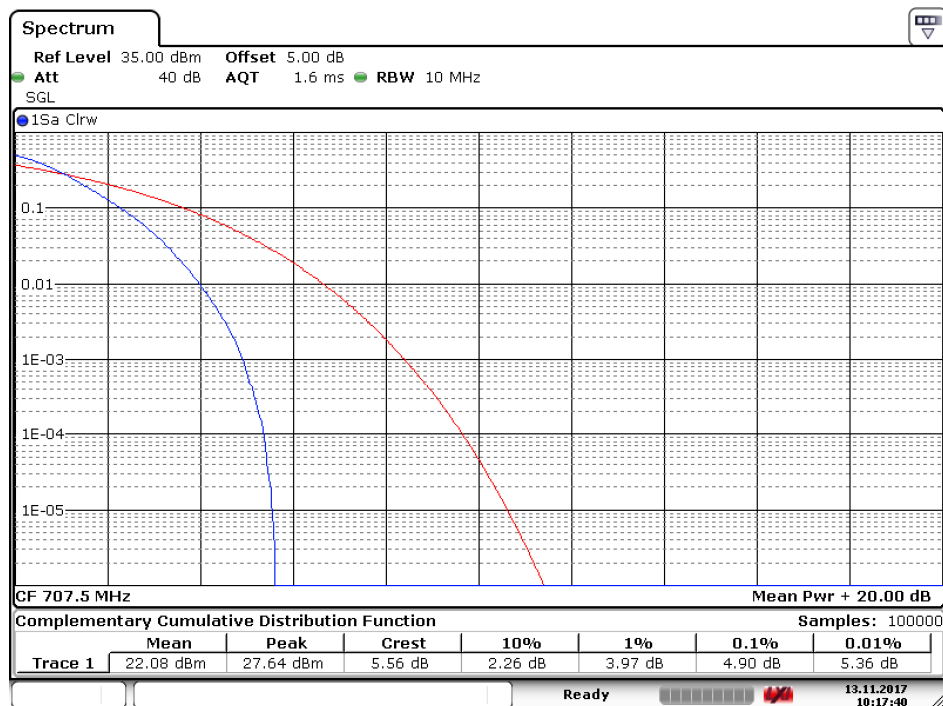
2.1.1.1.1 Test Channel = LCH



Date: 13.NOV.2017 10:15:19

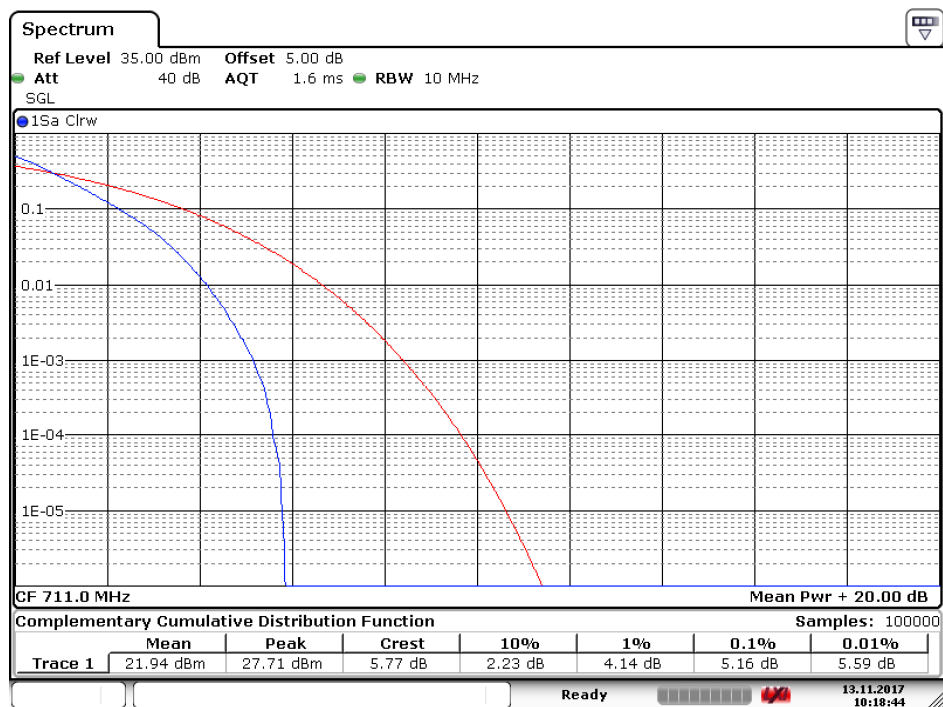


2.1.1.1.2 Test Channel = MCH



Date: 13.NOV.2017 10:17:40

2.1.1.1.3 Test Channel = HCH

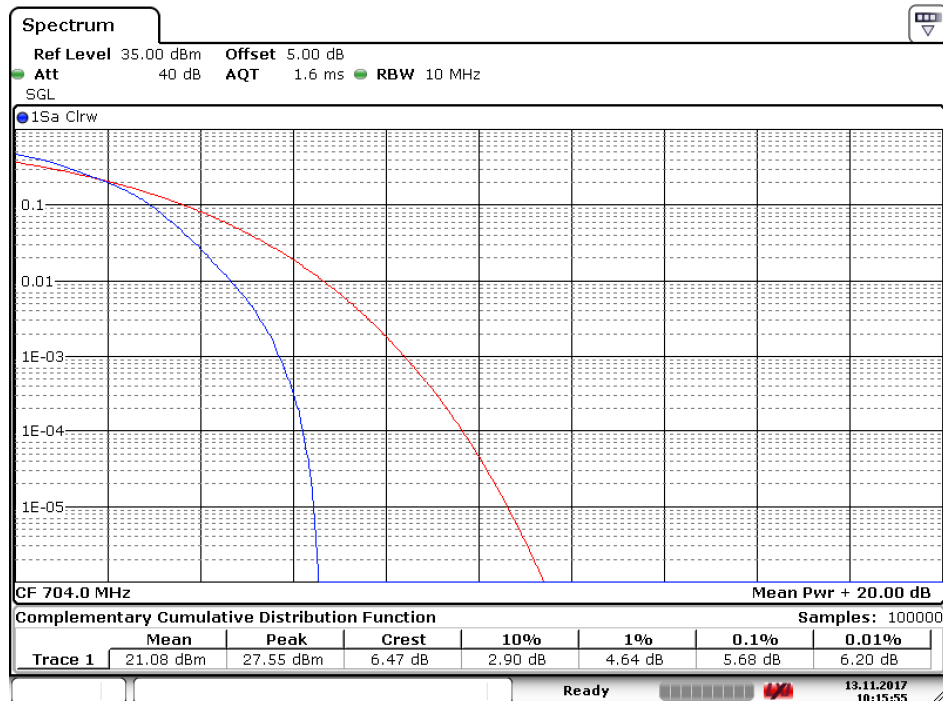


Date: 13.NOV.2017 10:18:45



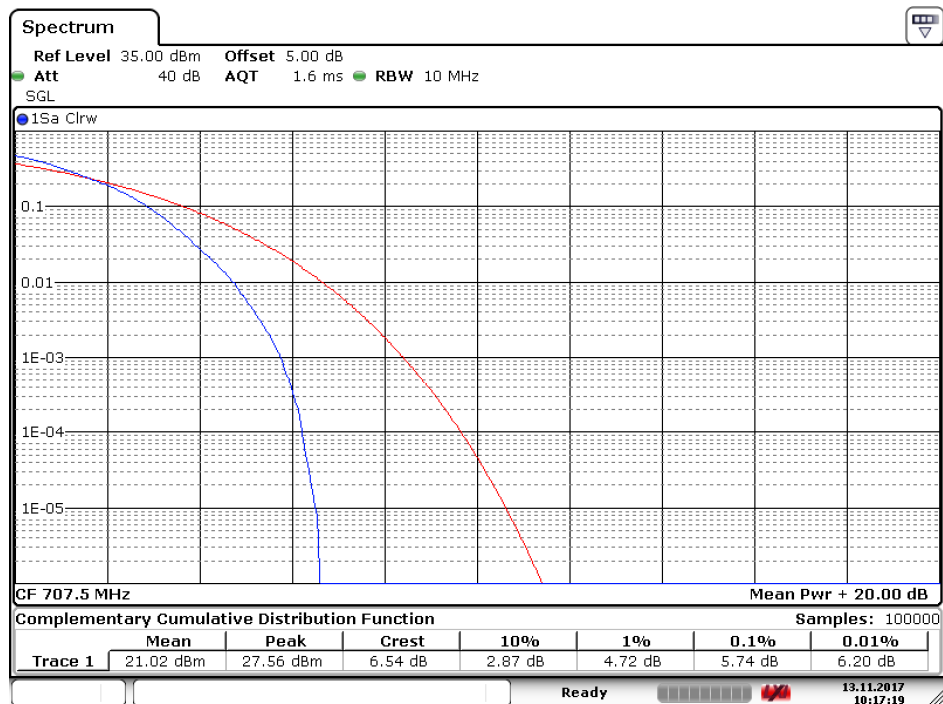
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

2.1.1.2.1 Test Channel = LCH



Date: 13.NOV.2017 10:15:55

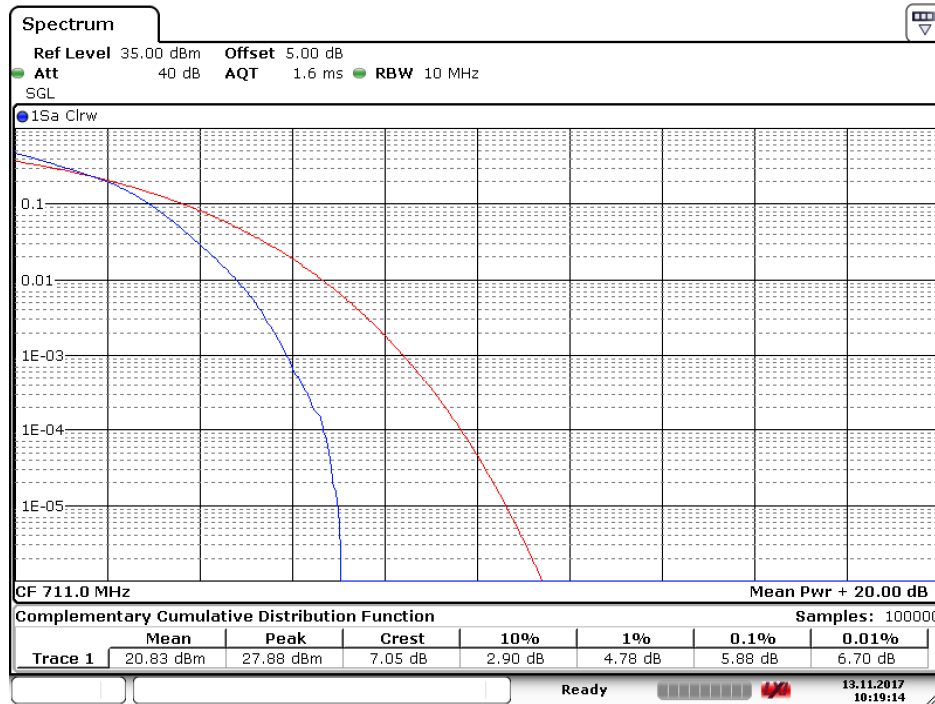
2.1.1.2.2 Test Channel = MCH



Date: 13.NOV.2017 10:17:20



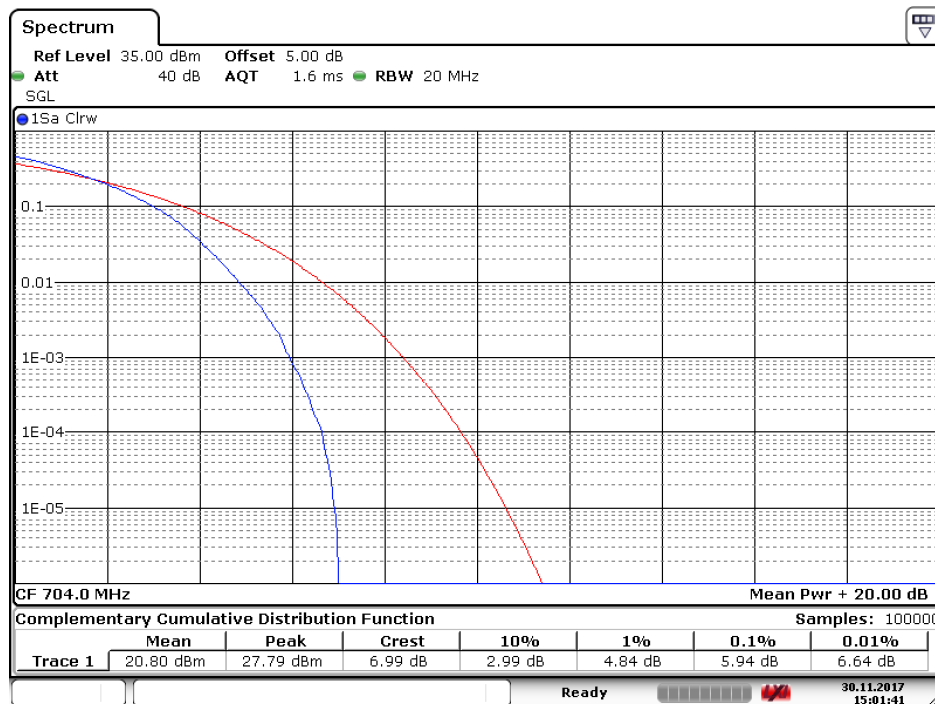
2.1.1.2.3 Test Channel = HCH



Date: 13.NOV.2017 10:19:14

2.1.1.3 Test Mode = LTE/TM3.Bandwidth=10MHz

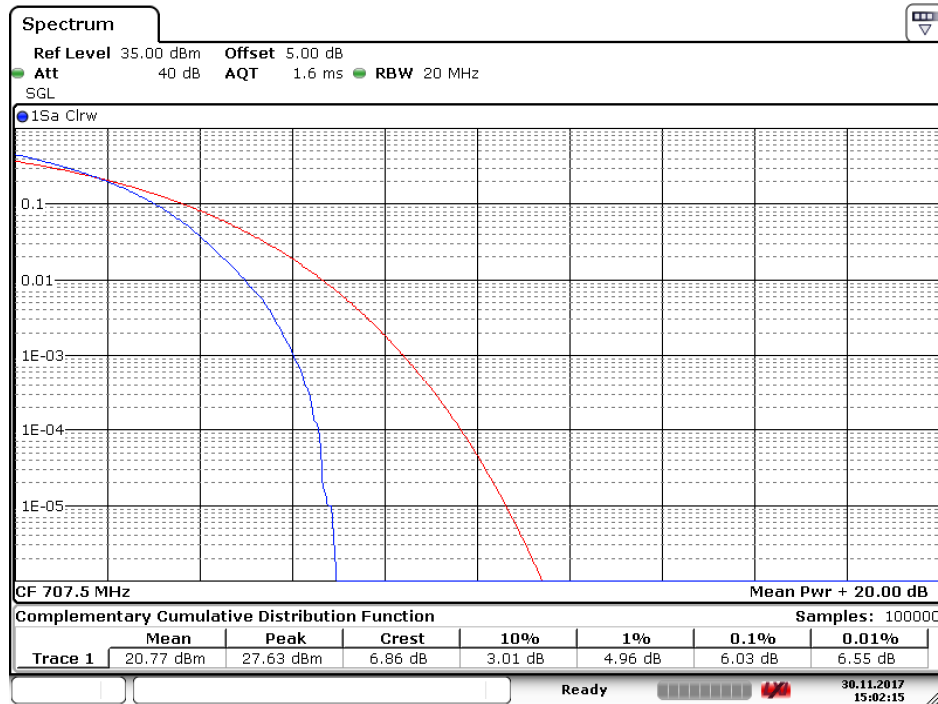
2.1.1.3.1 Test Channel = LCH



Date: 30.NOV.2017 15:01:41

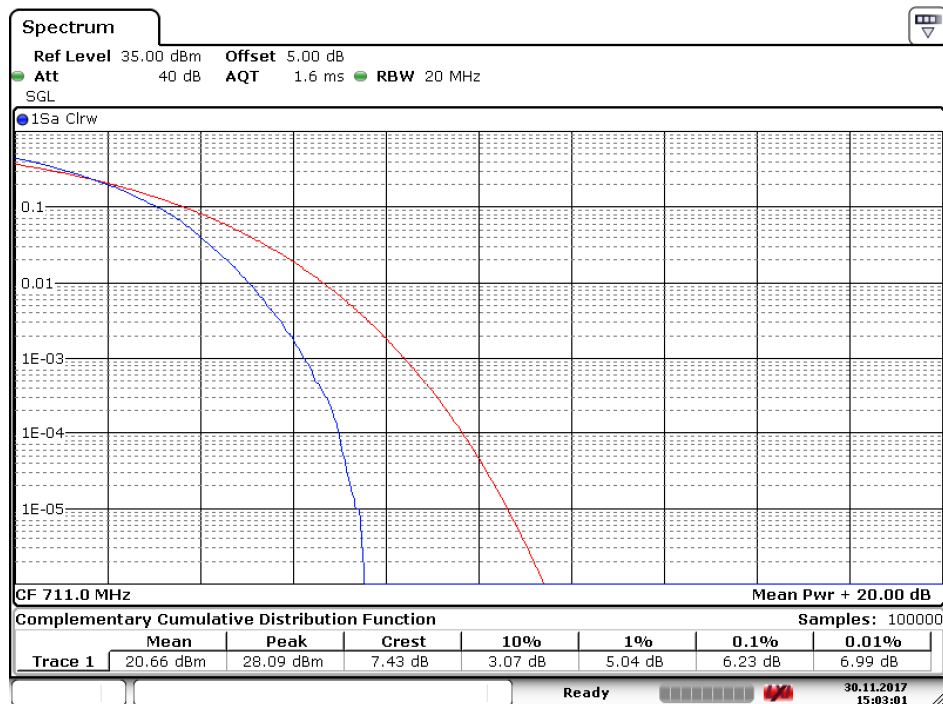


2.1.1.3.2 Test Channel = MCH



Date: 30.NOV.2017 15:02:16

2.1.1.3.3 Test Channel = HCH



Date: 30.NOV.2017 15:03:01

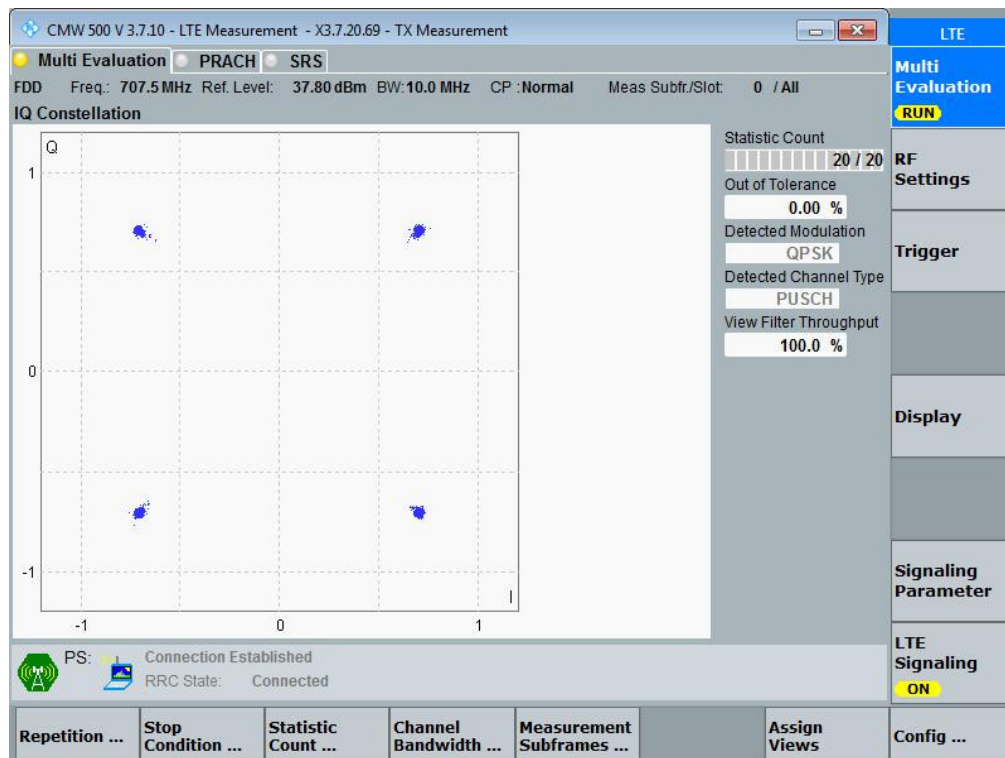
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band12

3.1.1.1 Test Mode = LTE /TM1 10MHz

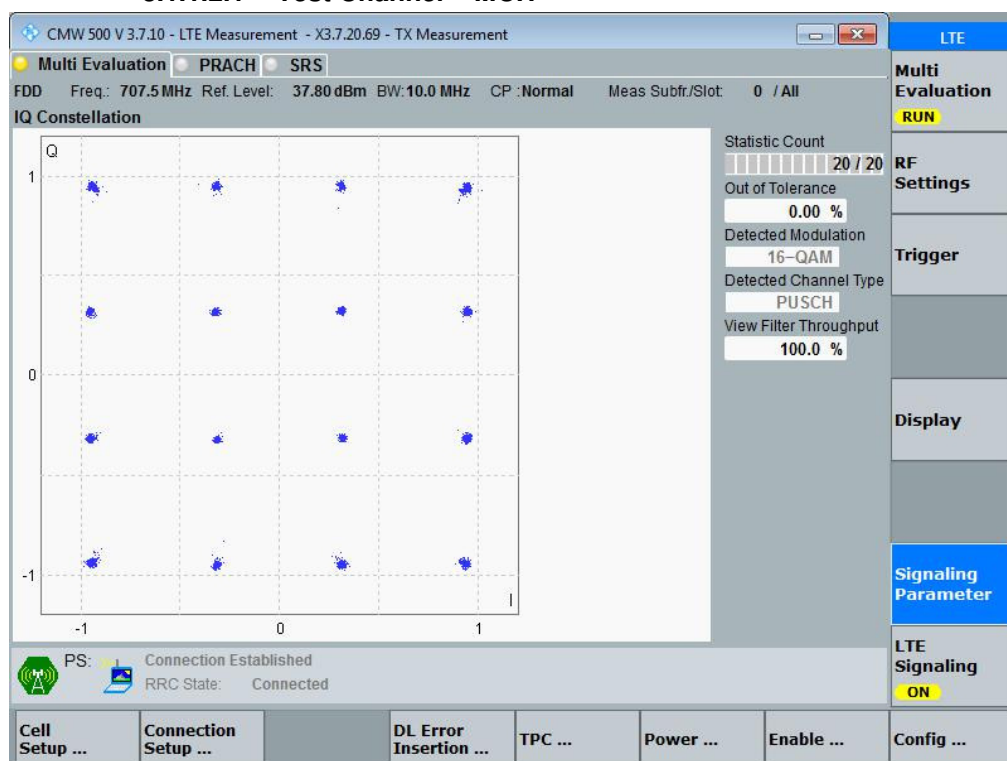
3.1.1.1.1 Test Channel = MCH





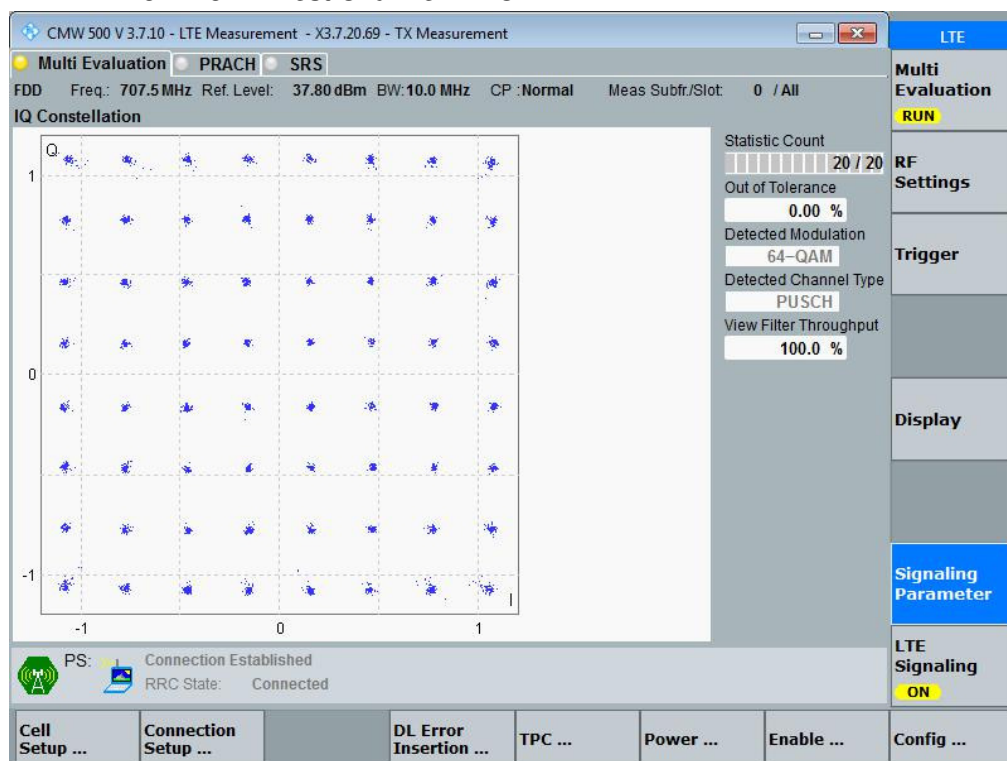
3.1.1.2 Test Mode = LTE /TM2 10MHz

3.1.1.2.1 Test Channel = MCH



3.1.1.3 Test Mode = LTE /TM3 10MHz

3.1.1.3.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 12	TM1/1.4MHz	LCH	1.10	1.24	PASS
		MCH	1.10	1.24	PASS
		HCH	1.10	1.24	PASS
	TM2/1.4MHz	LCH	1.10	1.24	PASS
		MCH	1.10	1.25	PASS
		HCH	1.10	1.25	PASS
	TM3/1.4MHz	LCH	1.10	1.24	PASS
		MCH	1.09	1.23	PASS
		HCH	1.10	1.25	PASS
	TM1/ 3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.93	PASS
	TM2/3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.91	PASS
		HCH	2.69	2.94	PASS
	TM3/3MHz	LCH	2.69	2.93	PASS
		MCH	2.68	2.94	PASS
		HCH	2.68	2.93	PASS
	TM1/ 5MHz	LCH	4.48	4.88	PASS
		MCH	4.49	4.88	PASS
		HCH	4.49	4.94	PASS
	TM2/ 5MHz	LCH	4.48	4.91	PASS
		MCH	4.49	4.88	PASS
		HCH	4.49	4.92	PASS
	TM3/ 5MHz	LCH	4.48	4.90	PASS
		MCH	4.48	4.87	PASS
		HCH	4.49	4.90	PASS
	TM1/10MHz	LCH	8.93	9.65	PASS
		MCH	8.93	9.61	PASS
		HCH	8.97	9.73	PASS
	TM2/ 10MHz	LCH	8.93	9.73	PASS
		MCH	8.93	9.71	PASS
		HCH	8.95	9.85	PASS

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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 12	TM3/ 10MHz	LCH	8.91	9.69	PASS
		MCH	8.93	9.71	PASS
		HCH	8.97	9.73	PASS

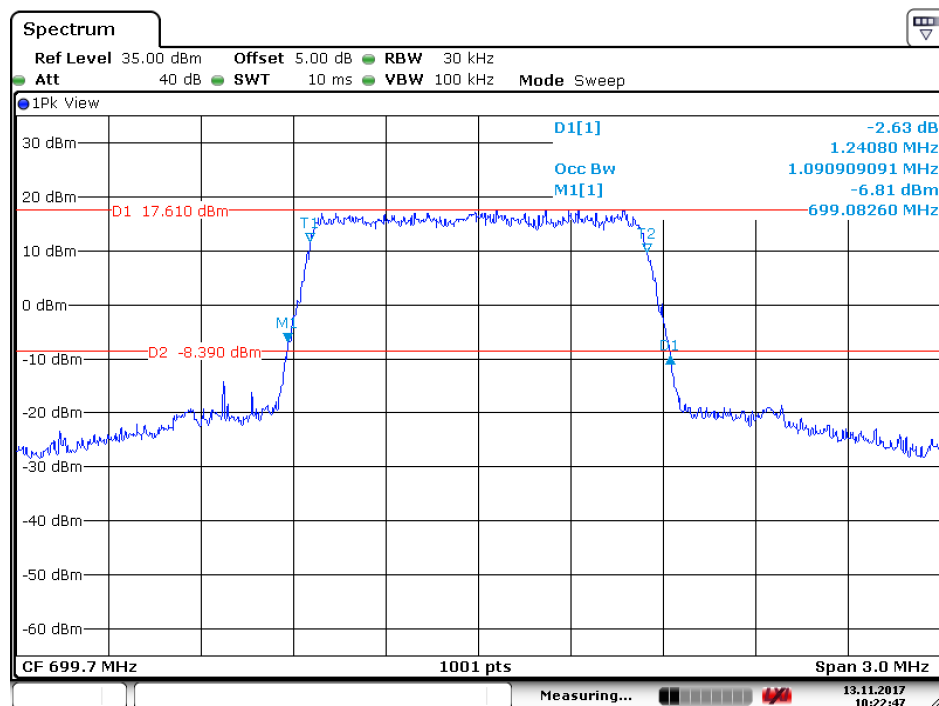
Part II –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band12

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

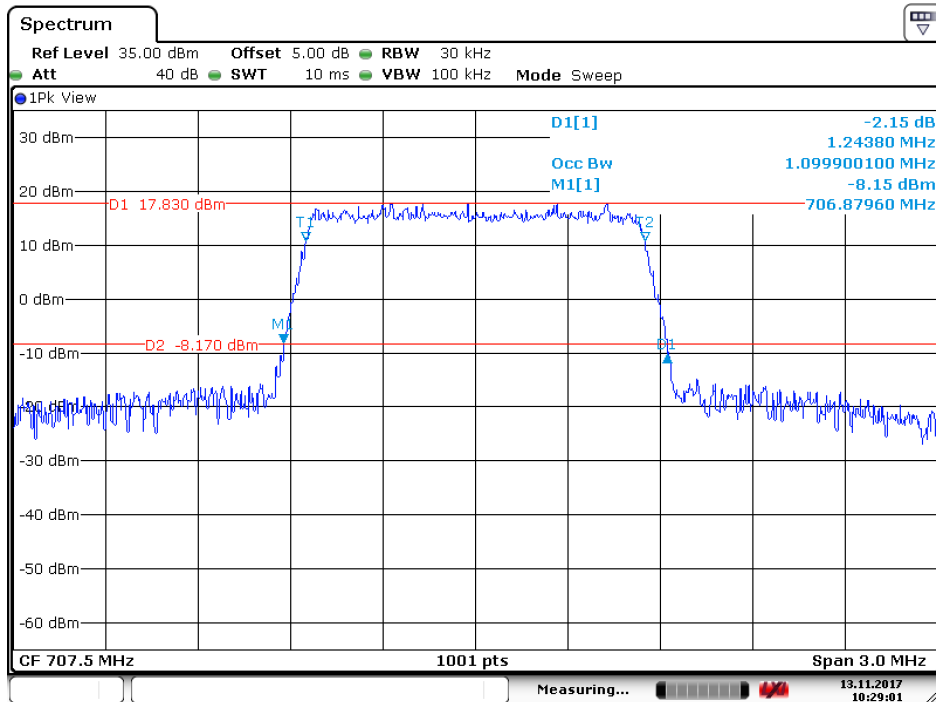
4.1.1.1.1 Test Channel = LCH



Date: 13.NOV.2017 10:22:48

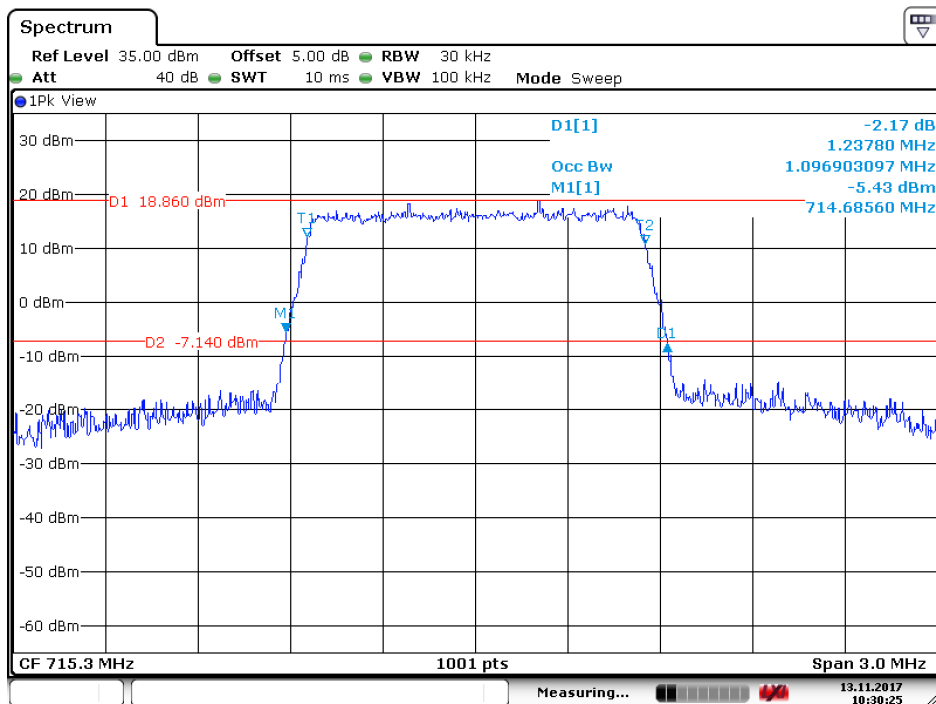


4.1.1.1.2 Test Channel = MCH



Date: 13.NOV.2017 10:29:02

4.1.1.1.3 Test Channel = HCH

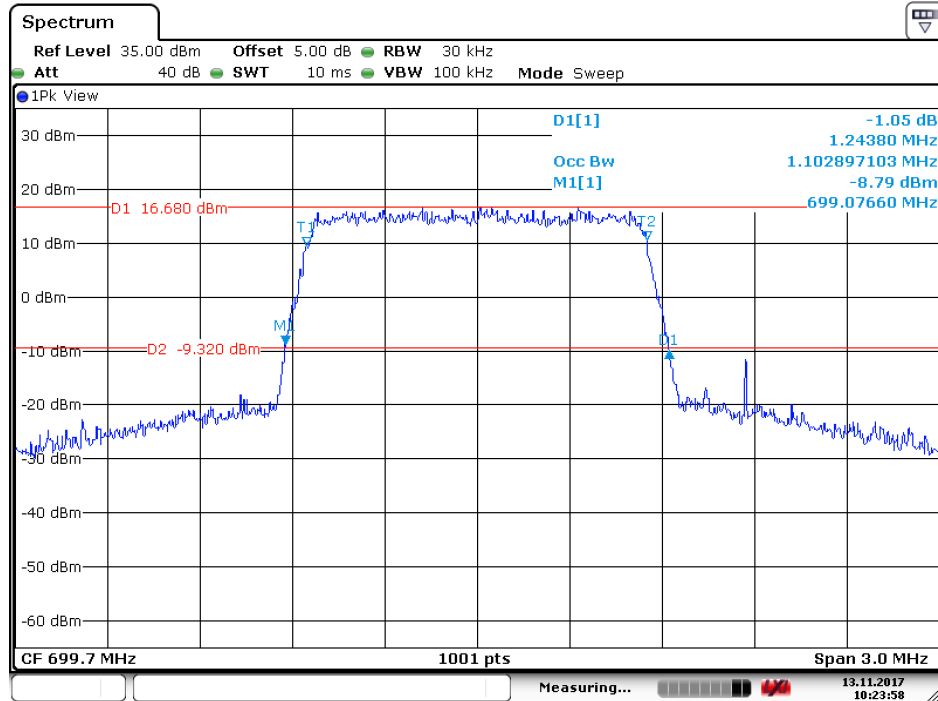


Date: 13.NOV.2017 10:30:25



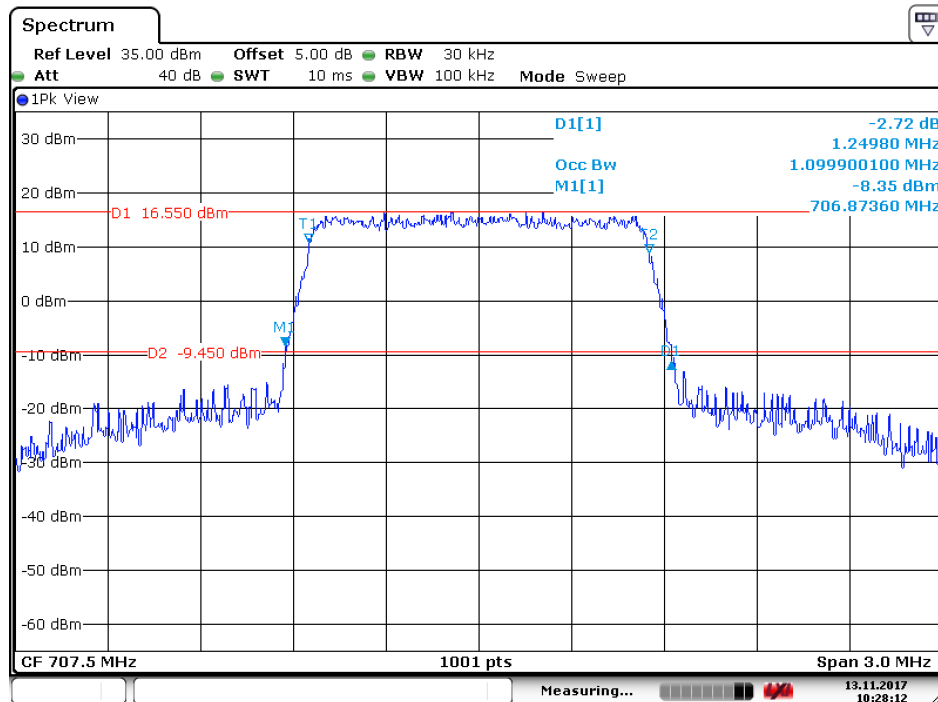
4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH



Date: 13.NOV.2017 10:23:58

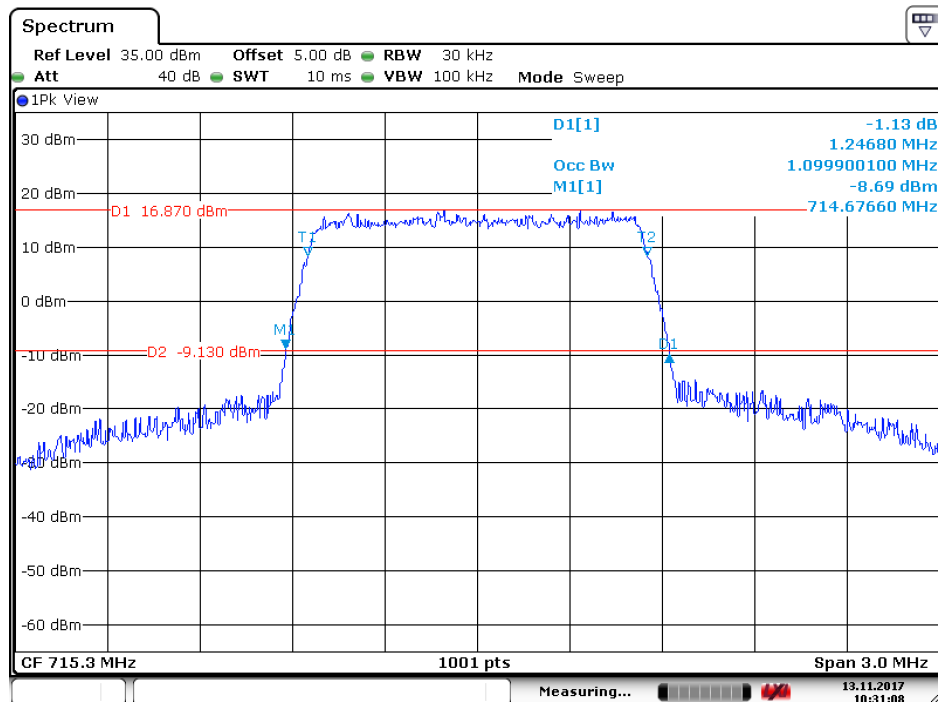
4.1.1.2.2 Test Channel = MCH



Date: 13.NOV.2017 10:28:12



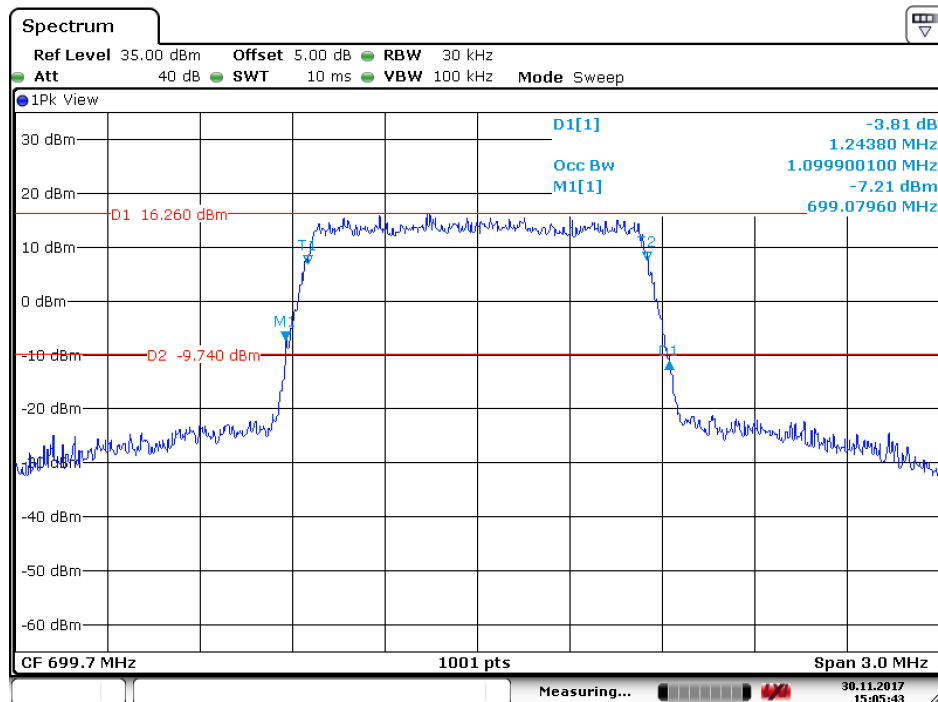
4.1.1.2.3 Test Channel = HCH



Date: 13.NOV.2017 10:31:09

4.1.1.3 Test Mode = LTE/TM3 1.4MHz

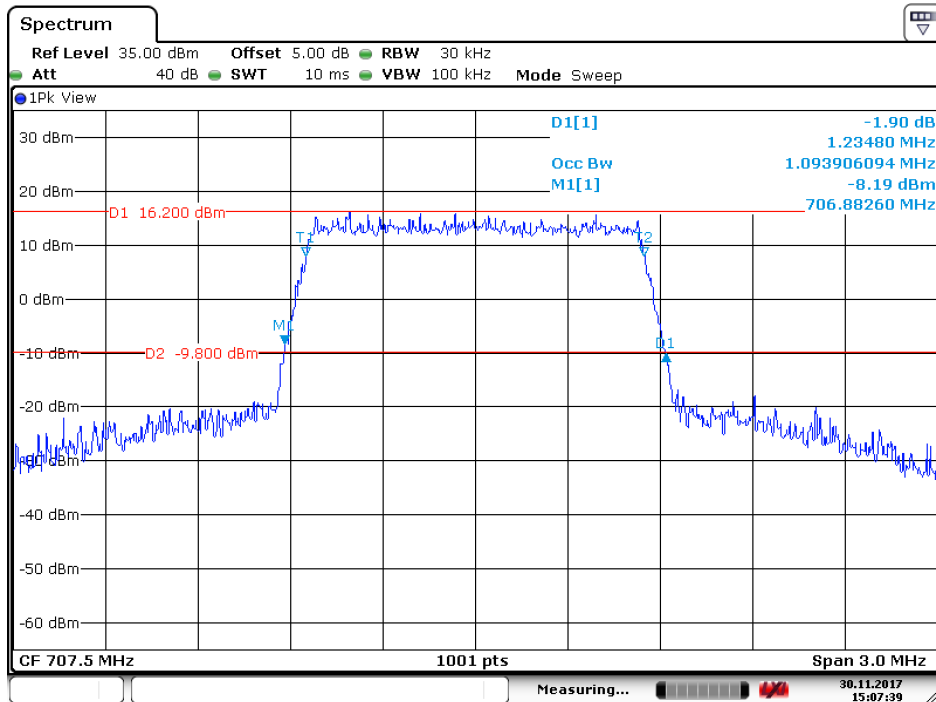
4.1.1.3.1 Test Channel = LCH



Date: 30.NOV.2017 15:05:43

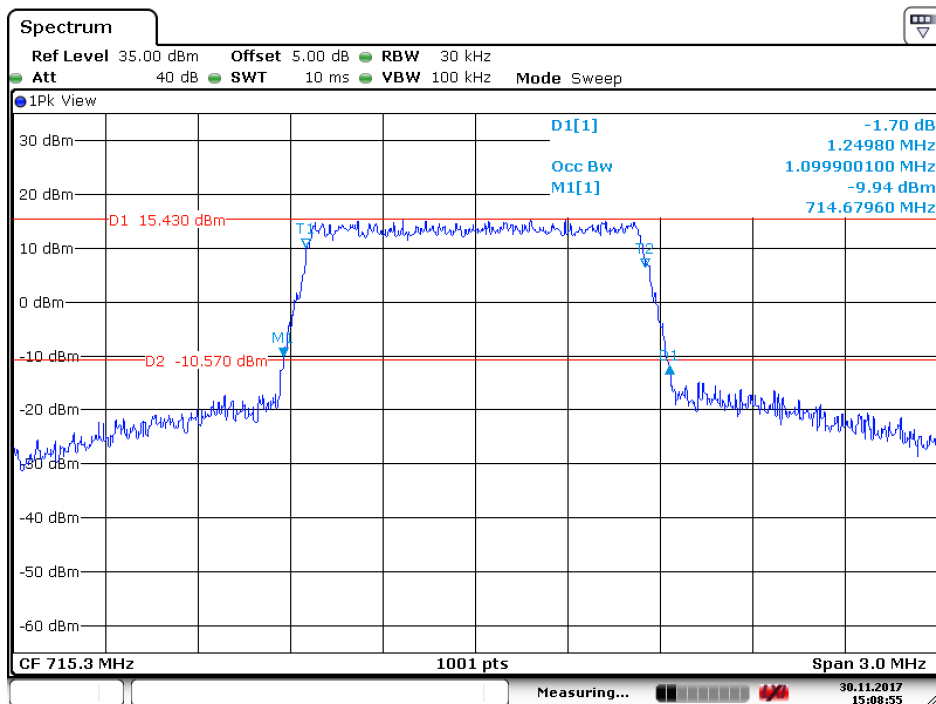


4.1.1.3.2 Test Channel = MCH



Date: 30.NOV.2017 15:07:39

4.1.1.3.3 Test Channel = HCH

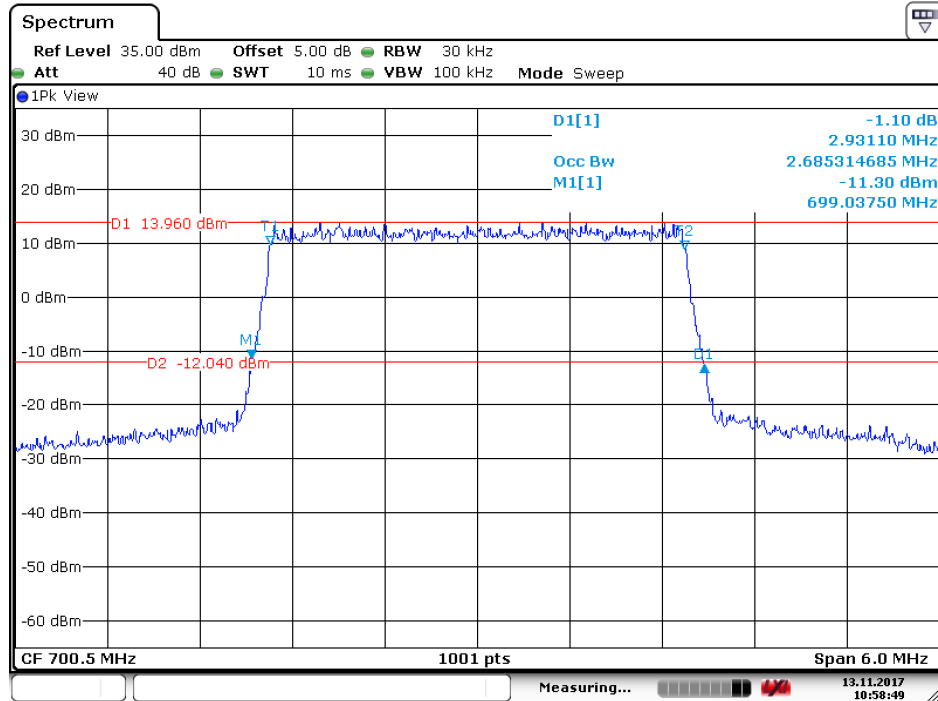


Date: 30.NOV.2017 15:08:55



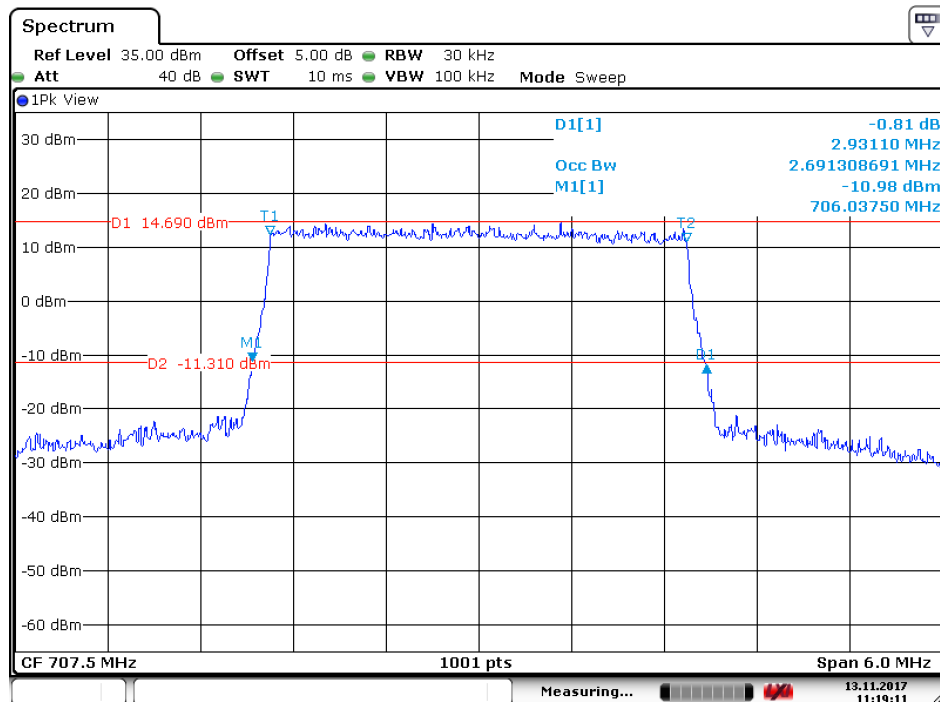
4.1.1.4 Test Mode = LTE/TM1 3MHz

4.1.1.4.1 Test Channel = LCH



Date: 13.NOV.2017 10:58:50

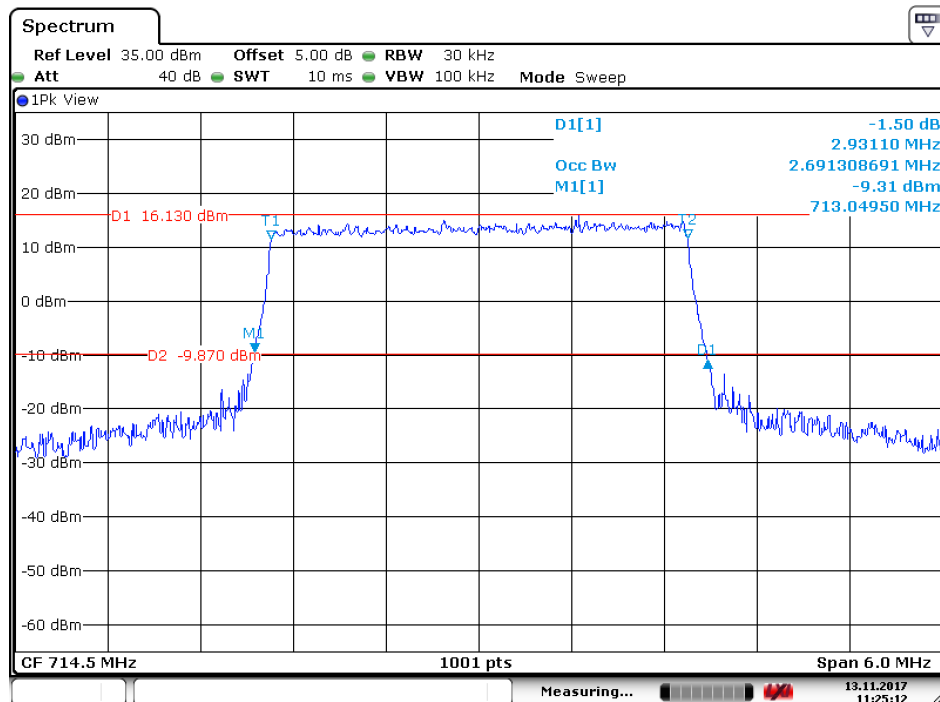
4.1.1.4.2 Test Channel = MCH



Date: 13.NOV.2017 11:19:11



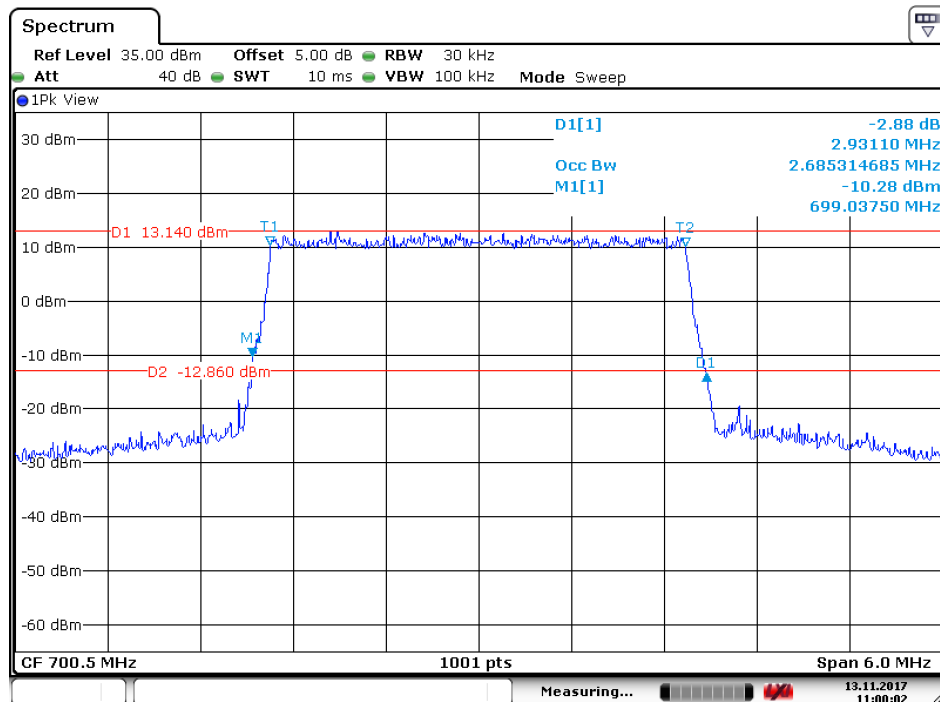
4.1.1.4.3 Test Channel = HCH



Date: 13.NOV.2017 11:25:12

4.1.1.5 Test Mode = LTE/TM2 3MHz

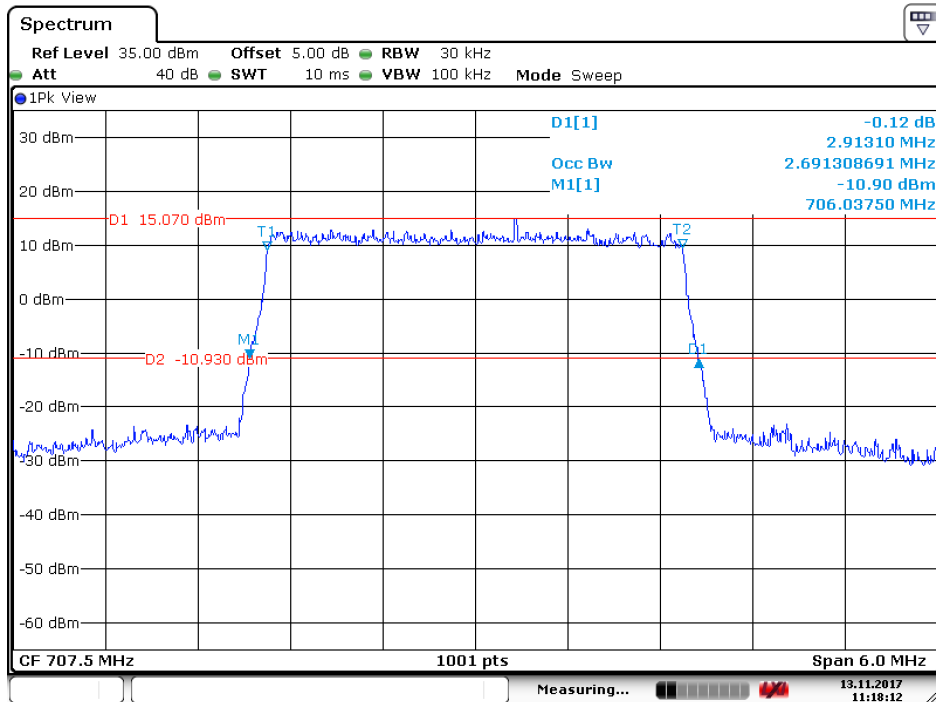
4.1.1.5.1 Test Channel = LCH



Date: 13.NOV.2017 11:00:03

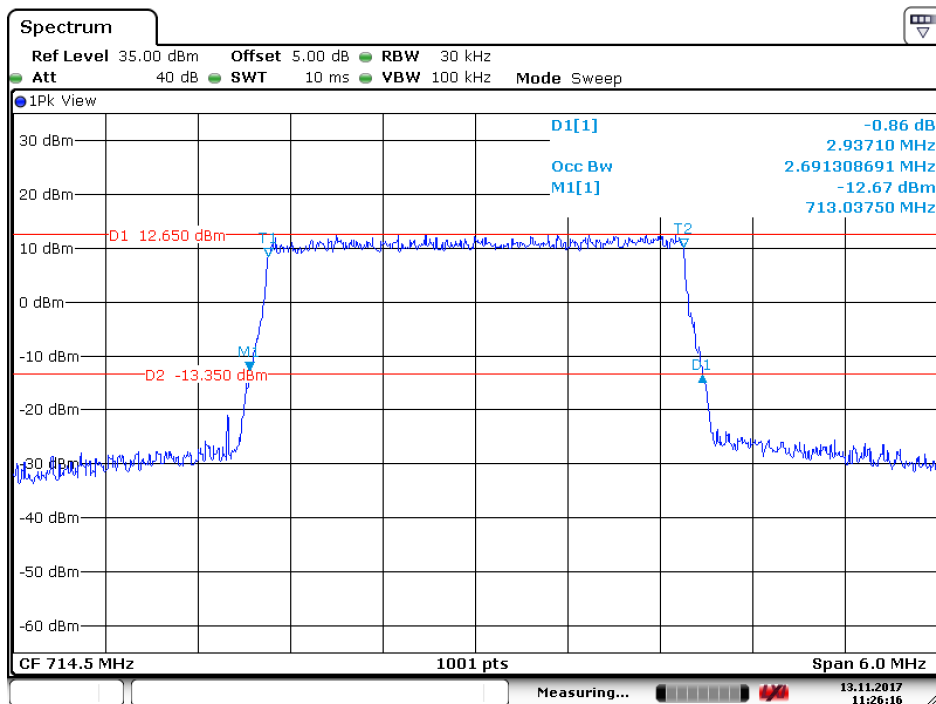


4.1.1.5.2 Test Channel = MCH



Date: 13.NOV.2017 11:18:12

4.1.1.5.3 Test Channel = HCH

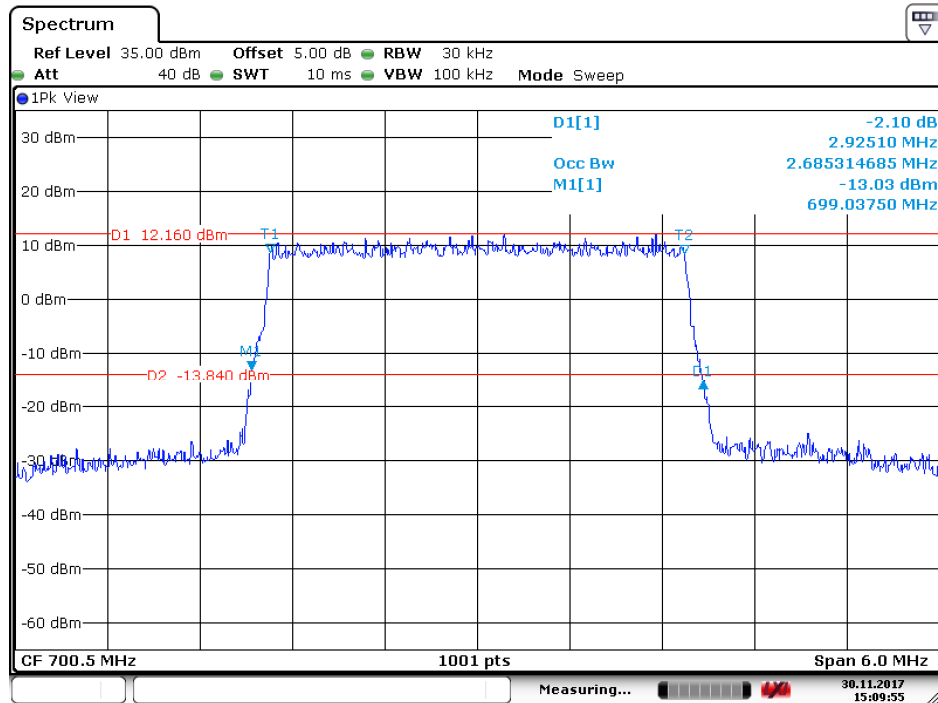


Date: 13.NOV.2017 11:26:17



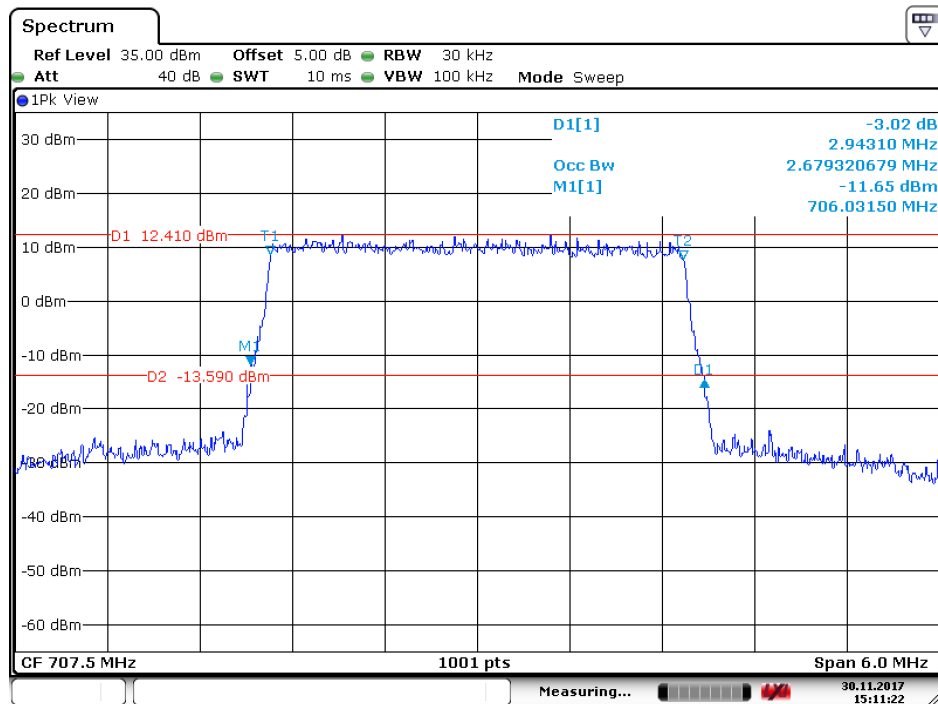
4.1.1.6 Test Mode = LTE/TM3 3MHz

4.1.1.6.1 Test Channel = LCH



Date: 30.NOV.2017 15:09:56

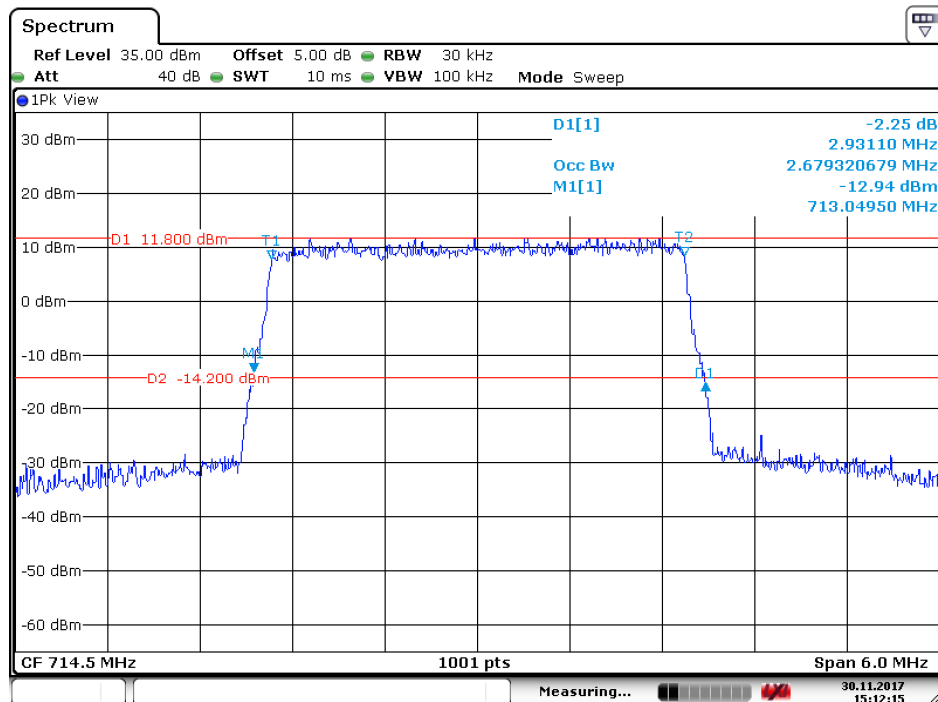
4.1.1.6.2 Test Channel = MCH



Date: 30.NOV.2017 15:11:22



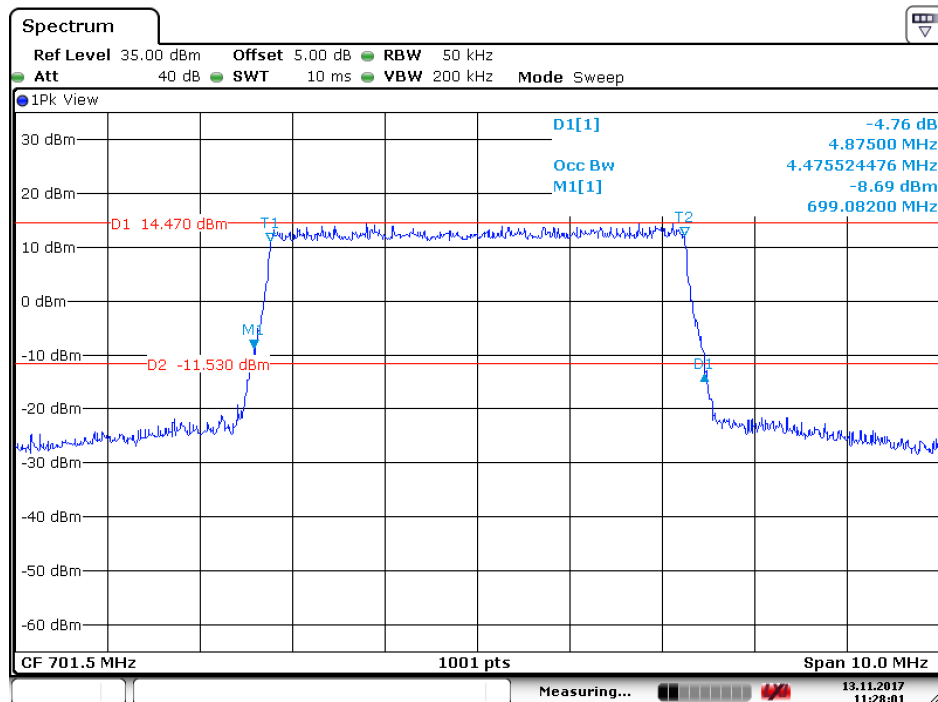
4.1.1.6.3 Test Channel = HCH



Date: 30.NOV.2017 15:12:16

4.1.1.7 Test Mode = LTE/TM1 5MHz

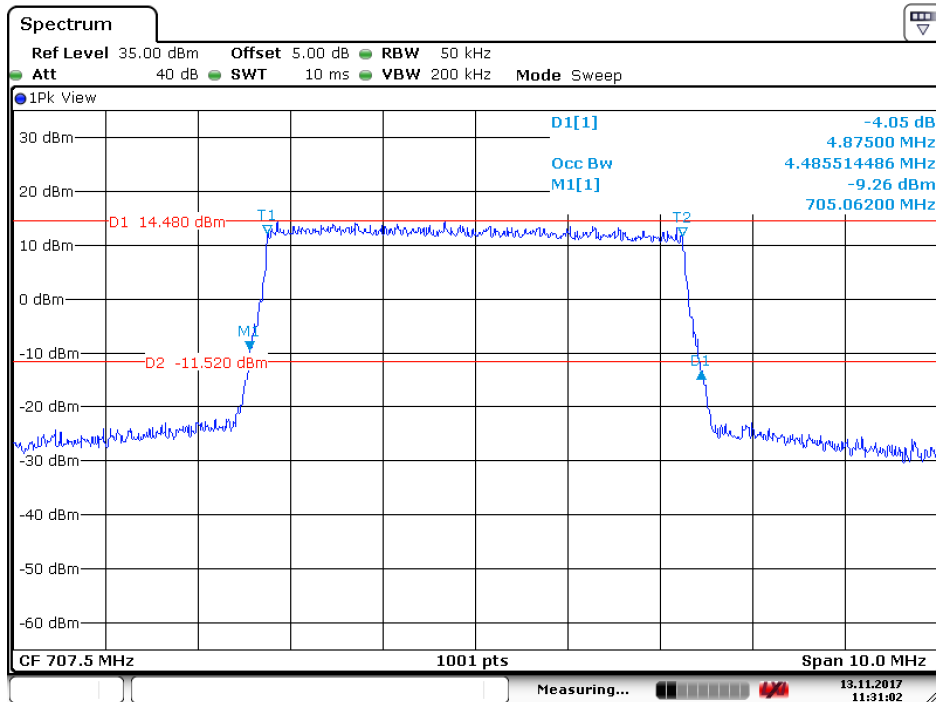
4.1.1.7.1 Test Channel = LCH



Date: 13.NOV.2017 11:28:01

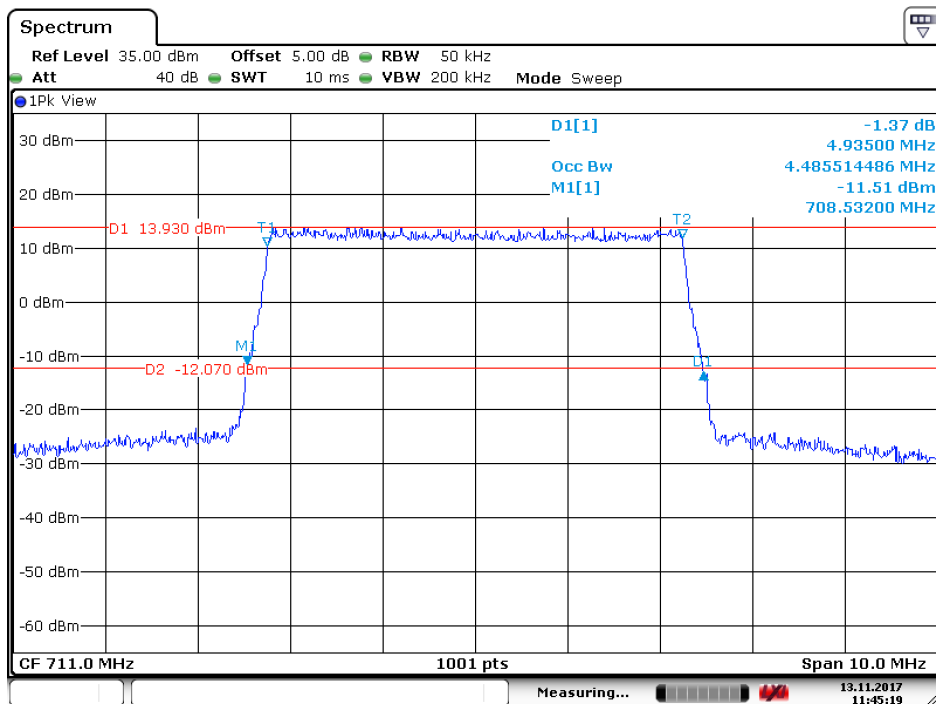


4.1.1.7.2 Test Channel = MCH



Date: 13.NOV.2017 11:31:02

4.1.1.7.3 Test Channel = HCH

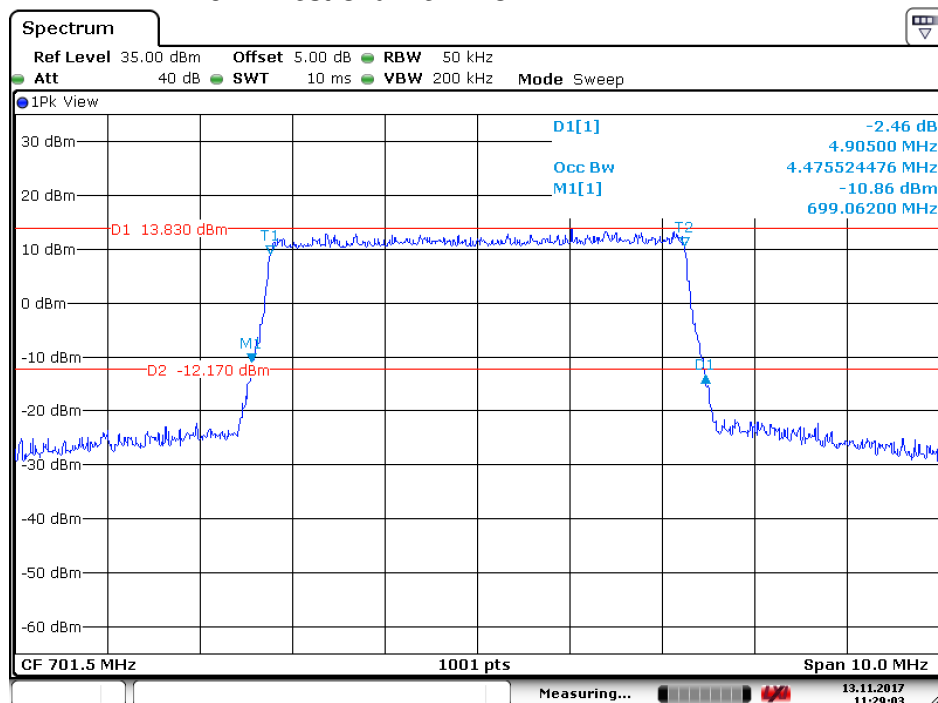


Date: 13.NOV.2017 11:45:20



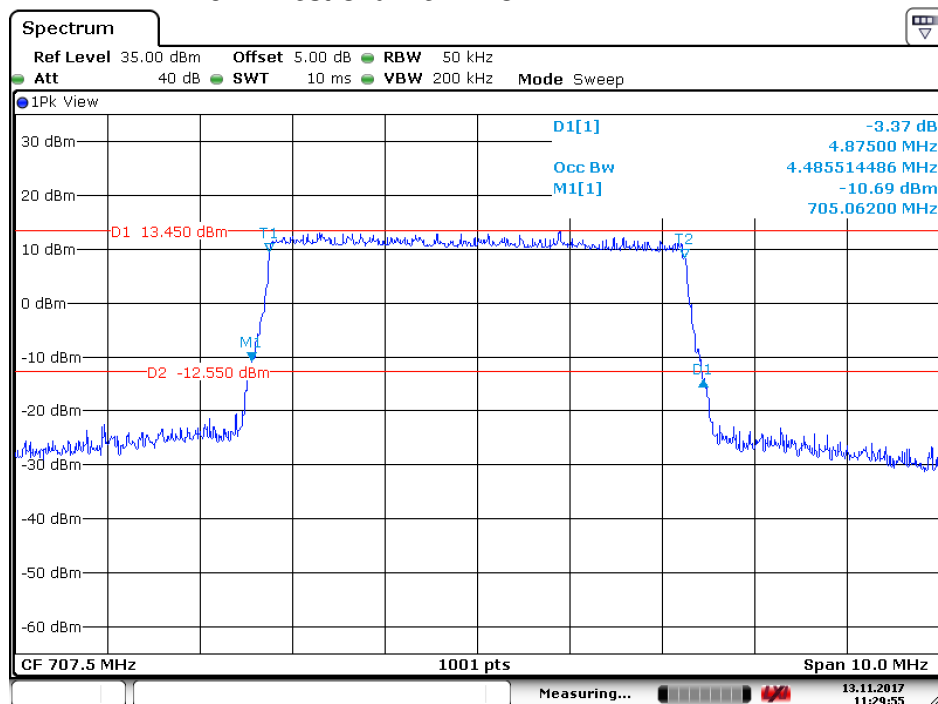
4.1.1.8 Test Mode = LTE/TM2 5MHz

4.1.1.8.1 Test Channel = LCH



Date: 13.NOV.2017 11:29:03

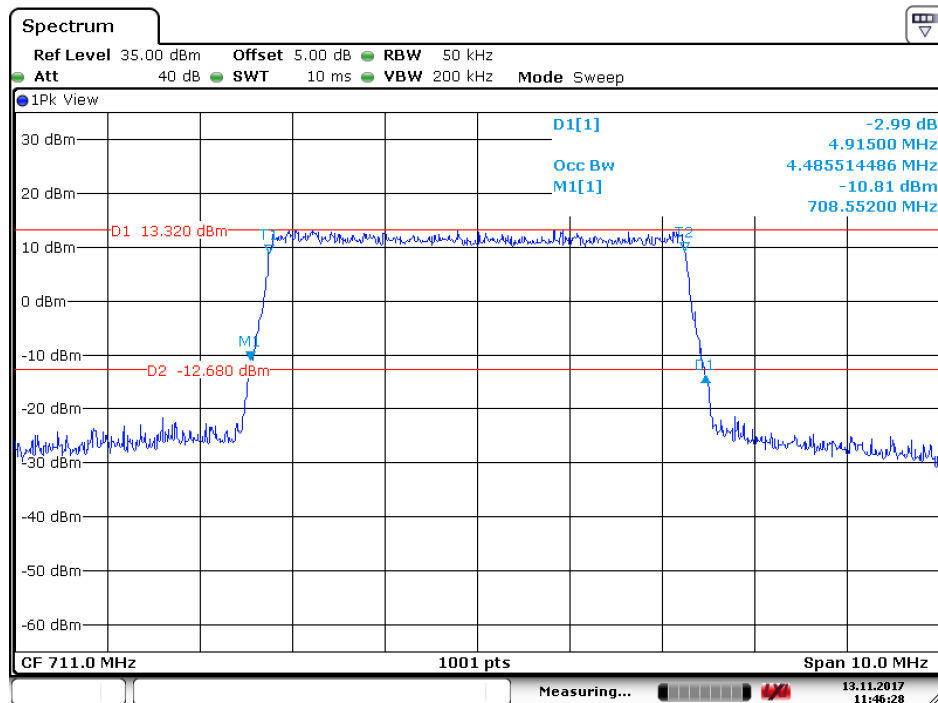
4.1.1.8.2 Test Channel = MCH



Date: 13.NOV.2017 11:29:56



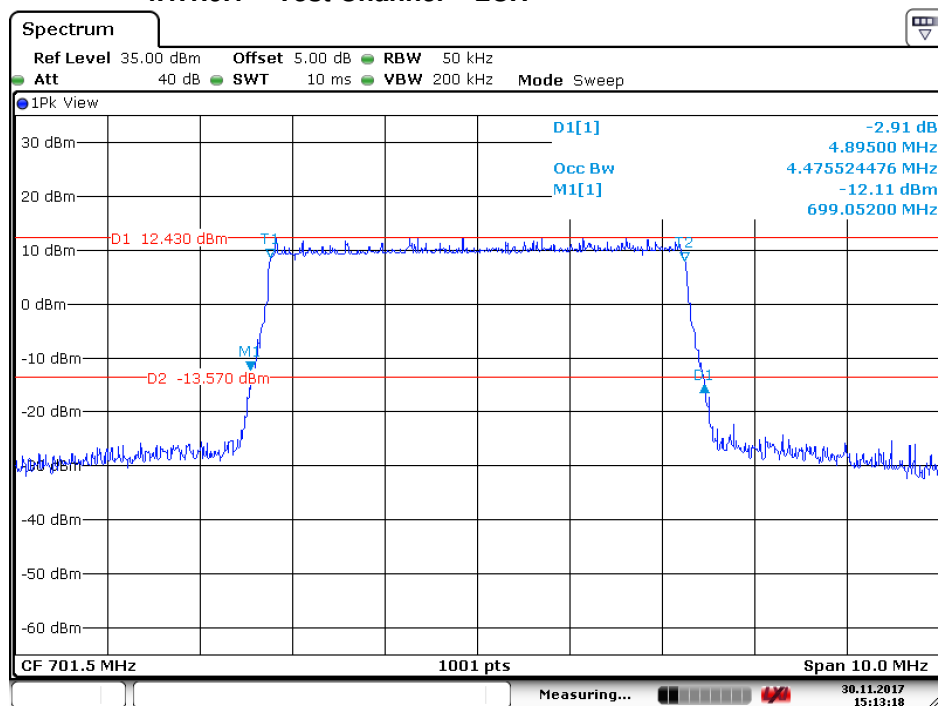
4.1.1.8.3 Test Channel = HCH



Date: 13.NOV.2017 11:46:29

4.1.1.9 Test Mode = LTE/TM3 5MHz

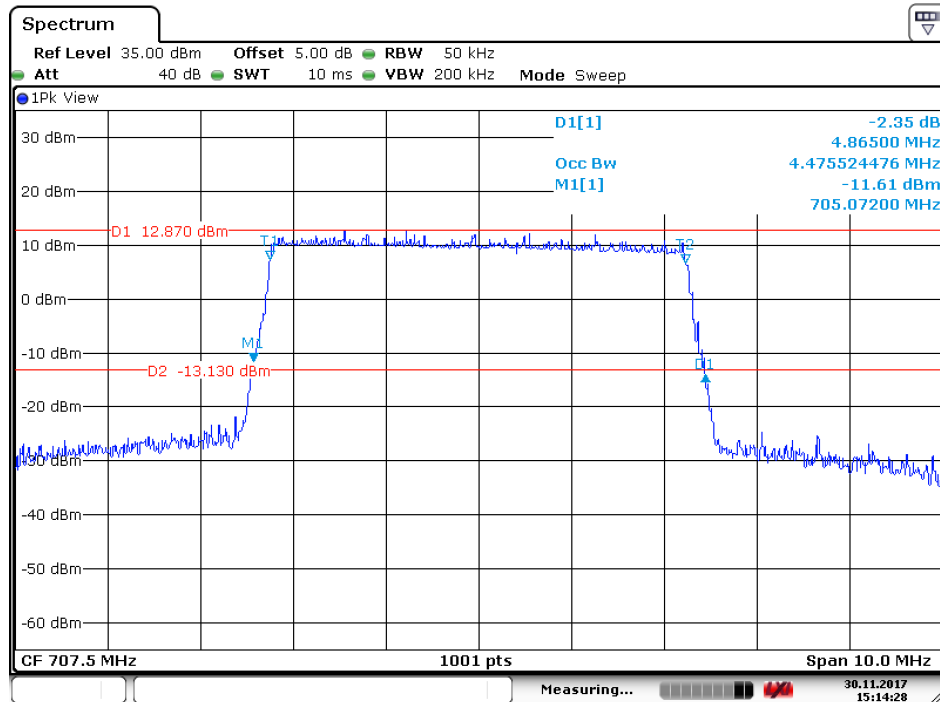
4.1.1.9.1 Test Channel = LCH



Date: 30.NOV.2017 15:13:19

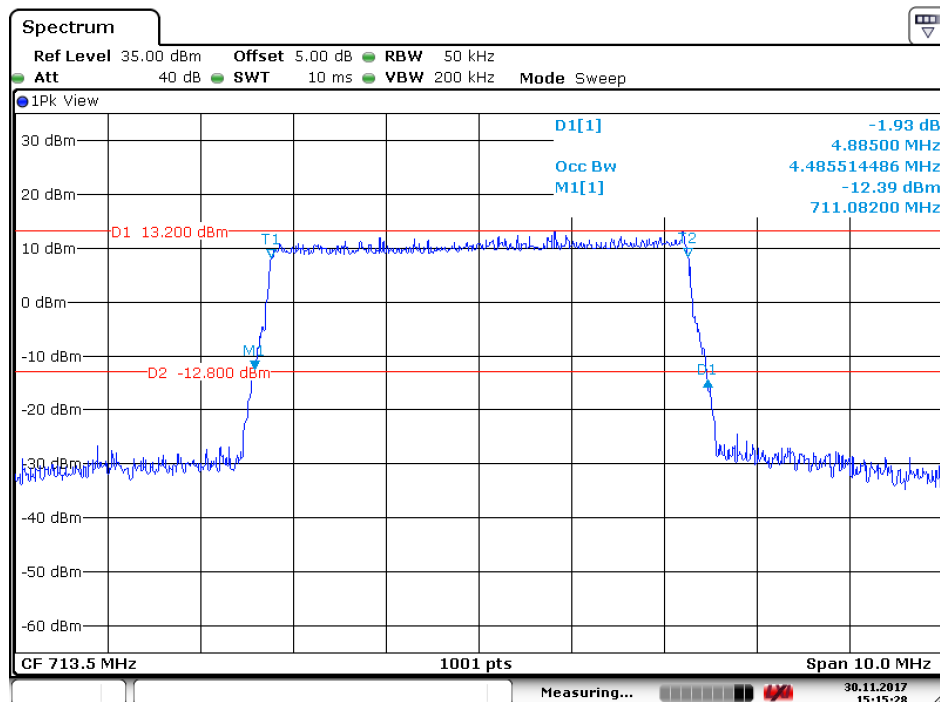


4.1.1.9.2 Test Channel = MCH



Date: 30.NOV.2017 15:14:29

4.1.1.9.3 Test Channel = HCH

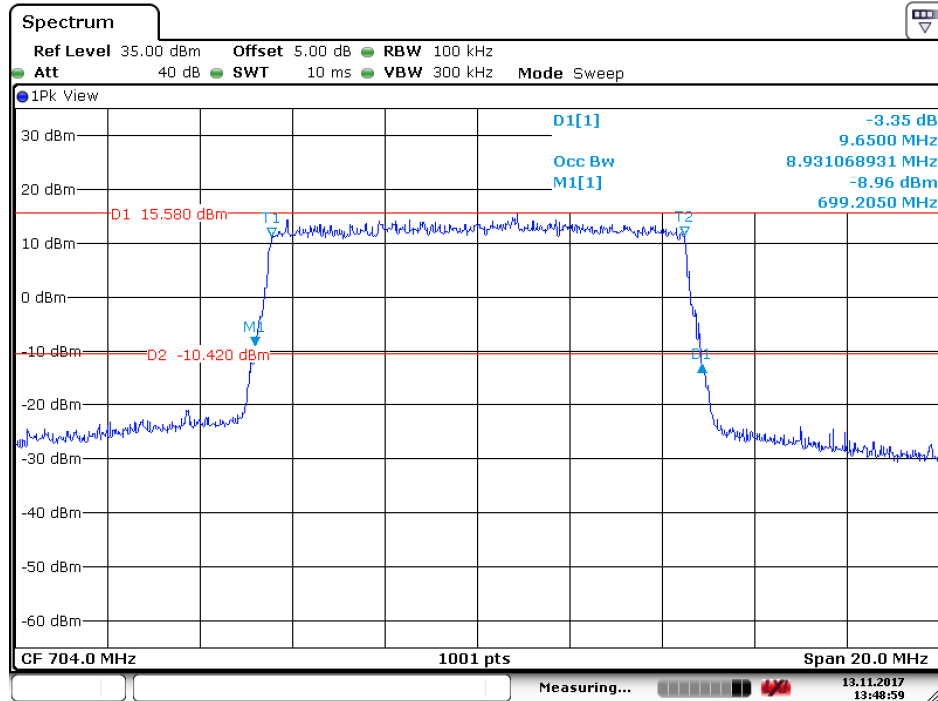


Date: 30.NOV.2017 15:15:29



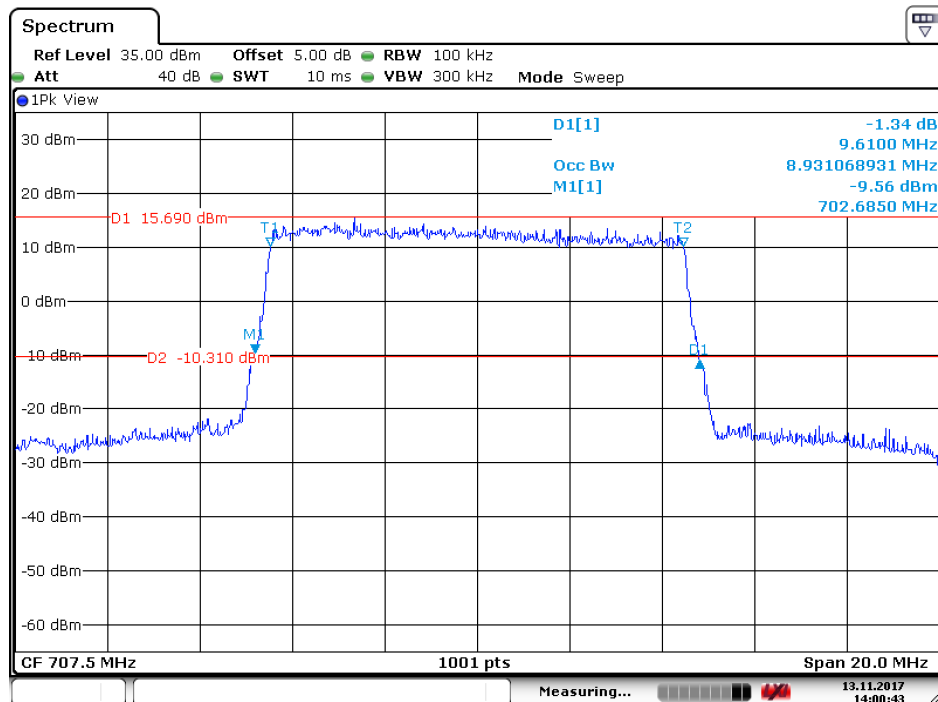
4.1.1.10 Test Mode = LTE/TM1 10MHz

4.1.1.10.1 Test Channel = LCH



Date: 13.NOV.2017 13:49:00

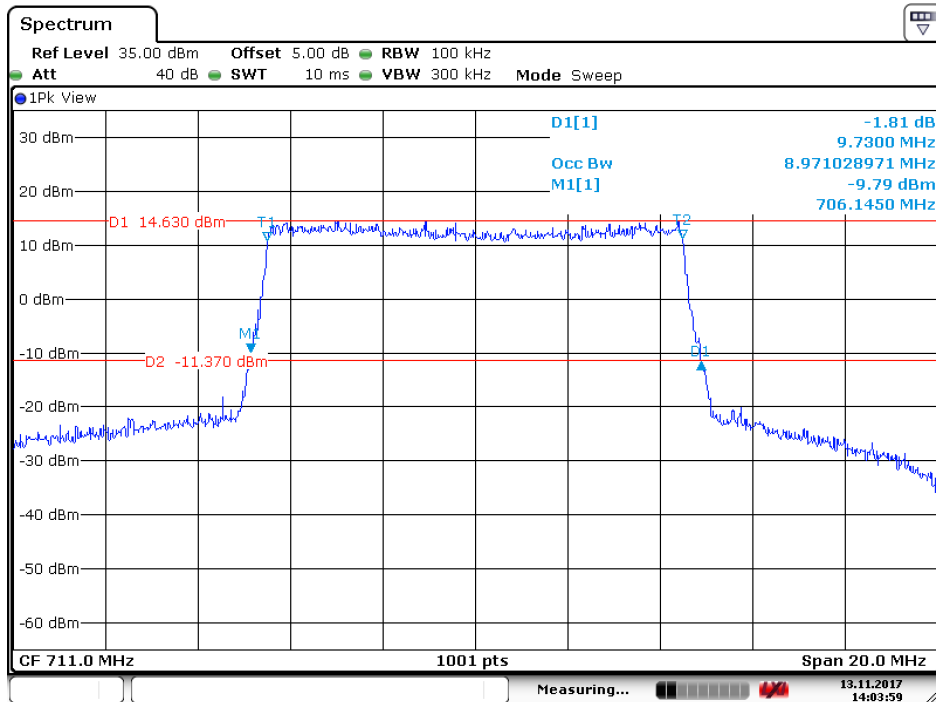
4.1.1.10.2 Test Channel = MCH



Date: 13.NOV.2017 14:00:43



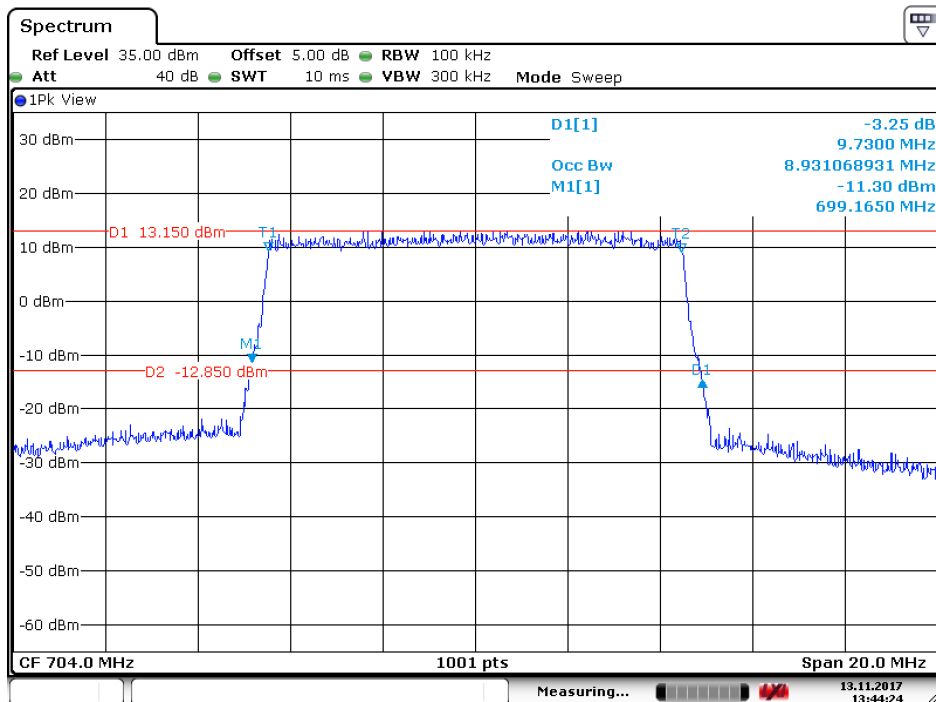
4.1.1.10.3 Test Channel = HCH



Date: 13.NOV.2017 14:04:00

4.1.1.11 Test Mode = LTE/TM2 10MHz

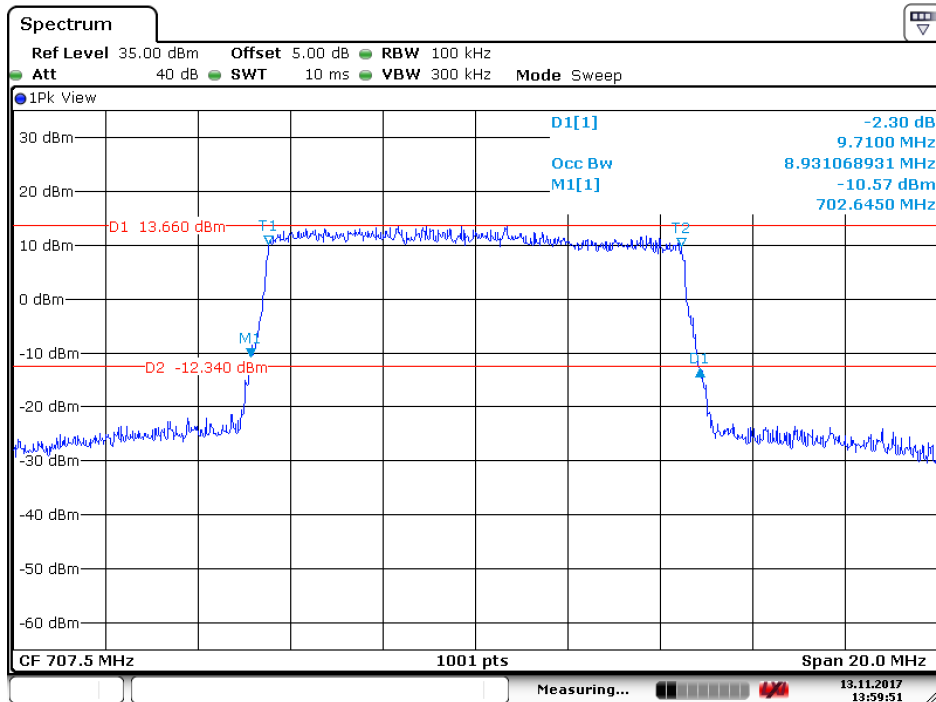
4.1.1.11.1 Test Channel = LCH



Date: 13.NOV.2017 13:44:25

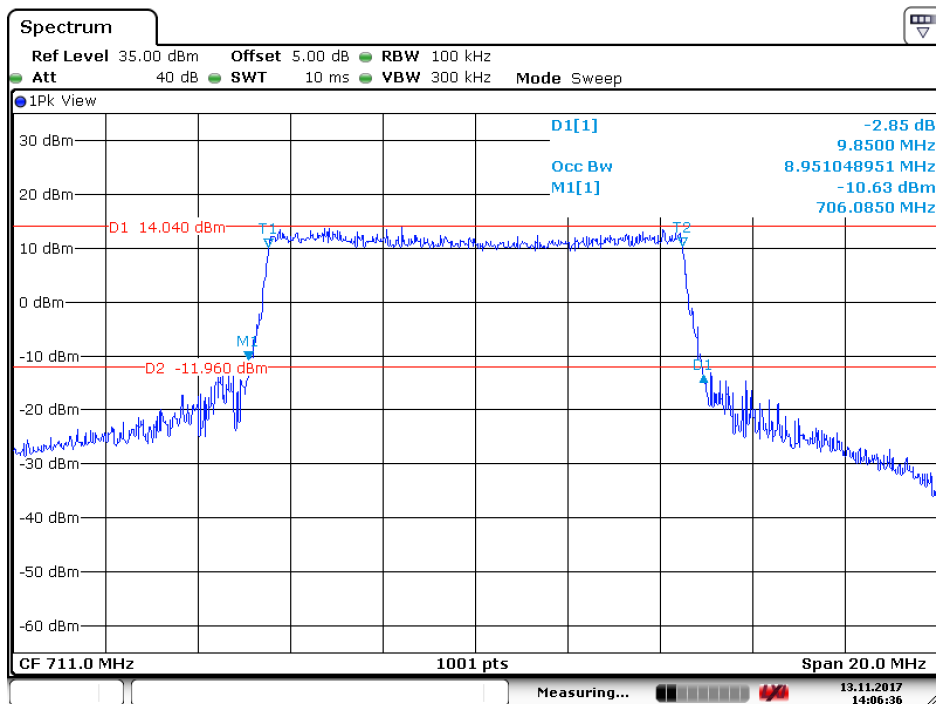


4.1.1.11.2 Test Channel = MCH



Date: 13.NOV.2017 13:59:51

4.1.1.11.3 Test Channel = HCH

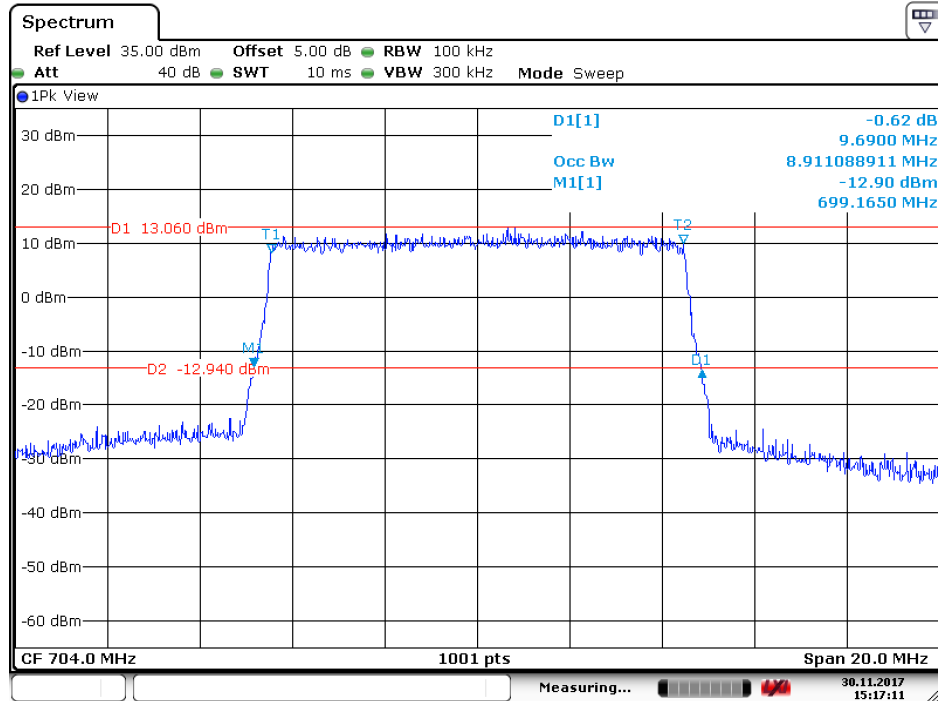


Date: 13.NOV.2017 14:06:36



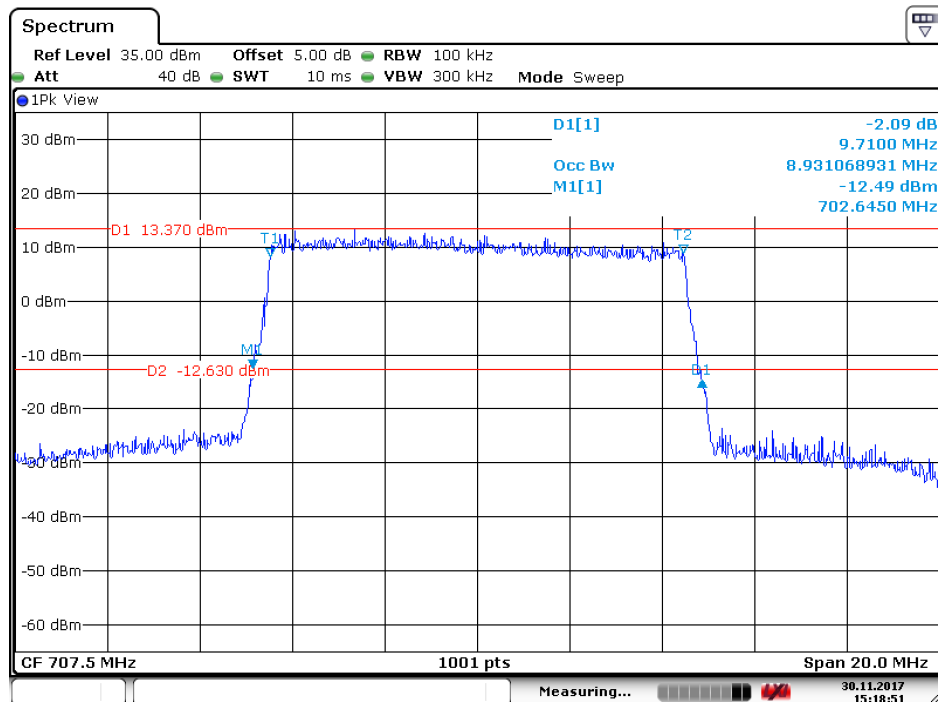
4.1.1.12 Test Mode = LTE/TM3 10MHz

4.1.1.12.1 Test Channel = LCH



Date: 30.NOV.2017 15:17:11

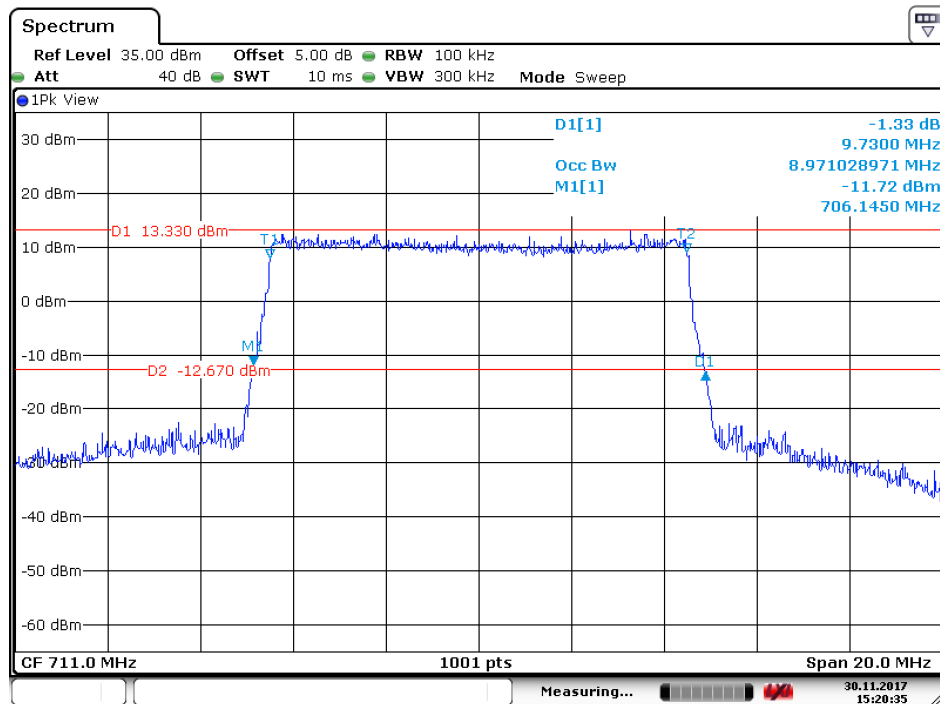
4.1.1.12.1 Test Channel = MCH



Date: 30.NOV.2017 15:18:51



4.1.1.12.2 Test Channel = HCH



Date: 30.NOV.2017 15:20:35



5 Band Edges Compliance

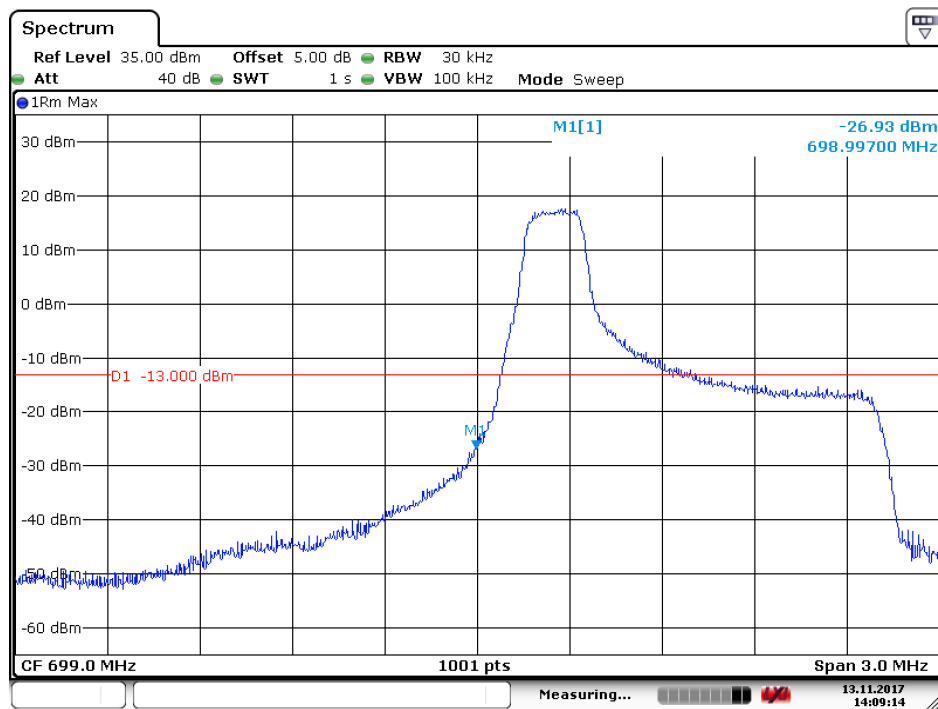
5.1 For LTE

5.1.1 Test Band = LTE band12

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

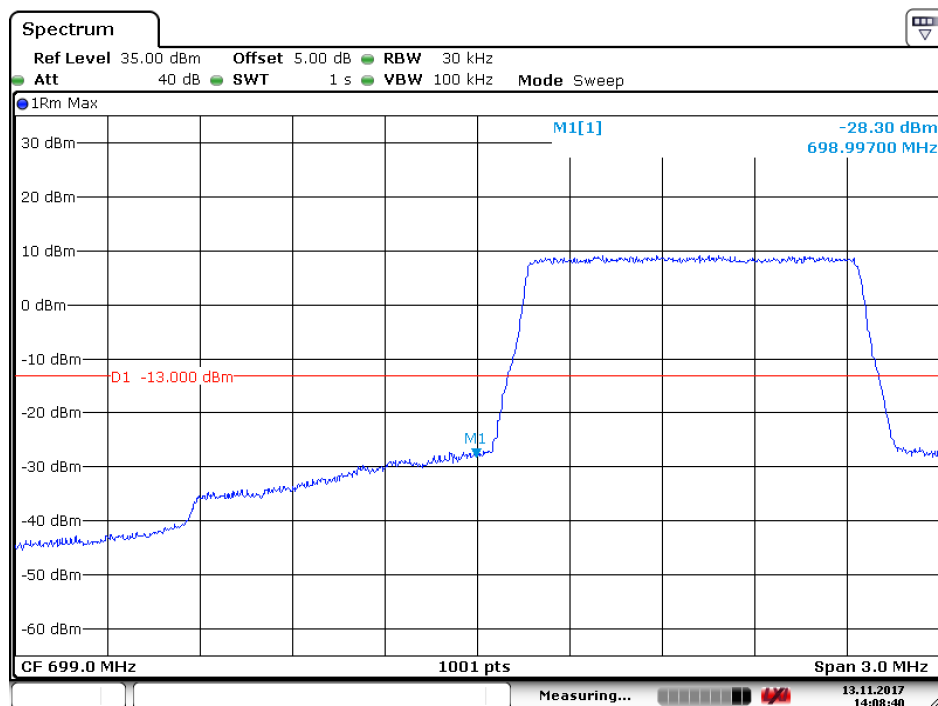
5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



Date: 13.NOV.2017 14:09:14

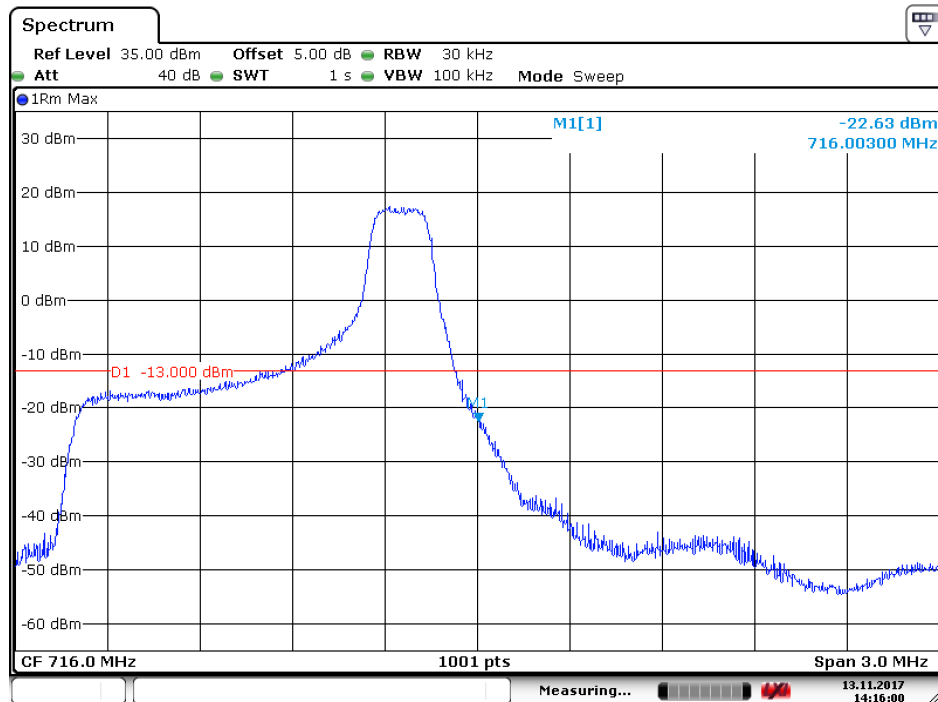
5.1.1.1.2 Test RB=6RB



Date: 13.NOV.2017 14:08:40

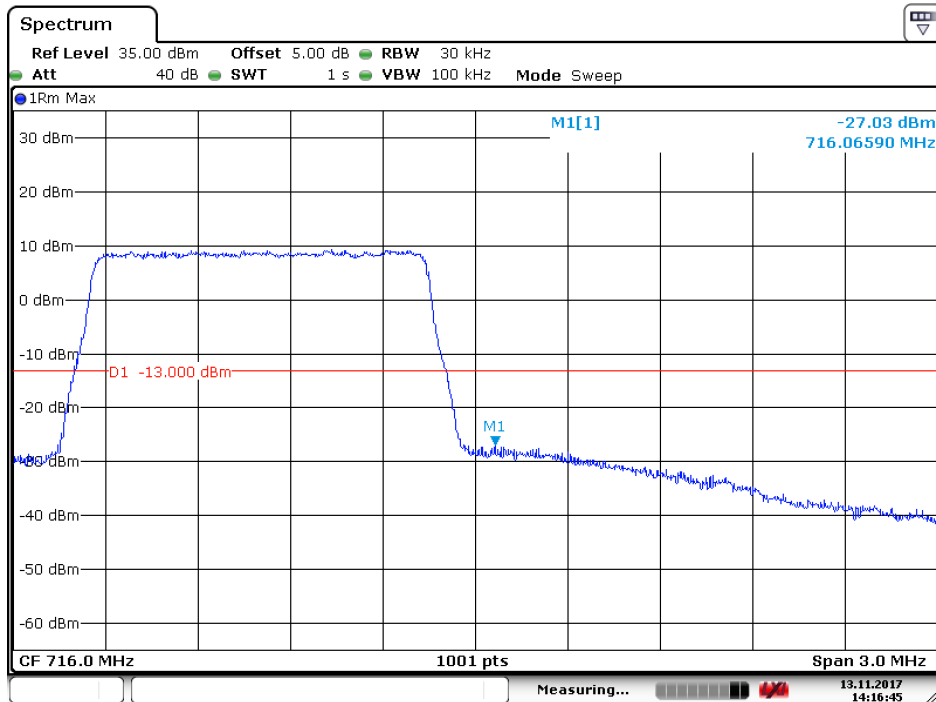
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 13.NOV.2017 14:16:00

5.1.1.1.2.2 Test RB=6RB

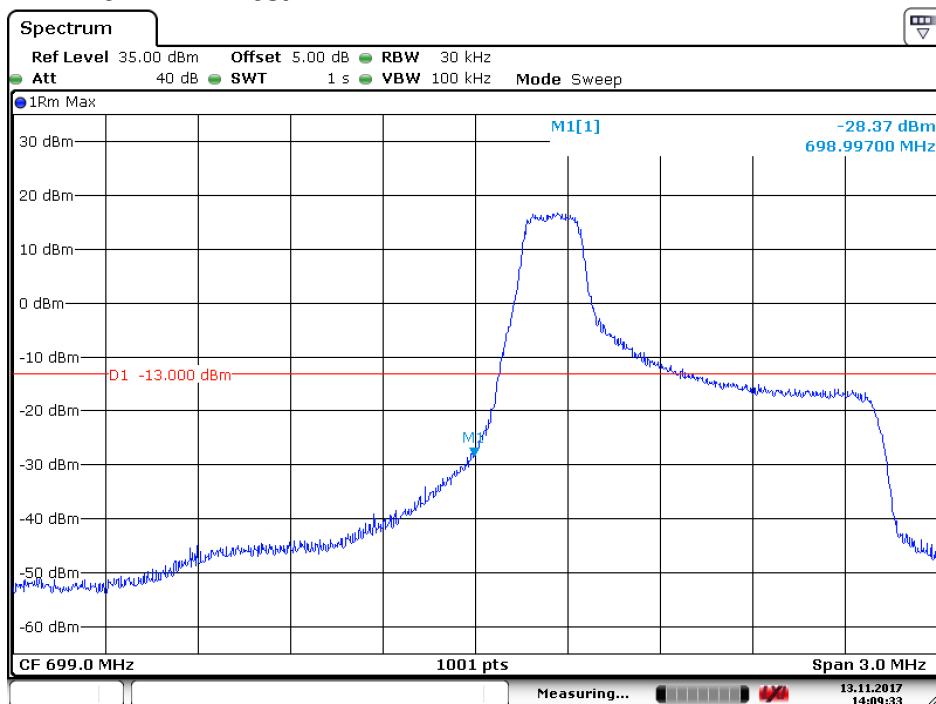


Date: 13.NOV.2017 14:16:45

5.1.1.2 Test Mode = LTE/TM2 1.4MHz

5.1.1.2.1 Test Channel = LCH

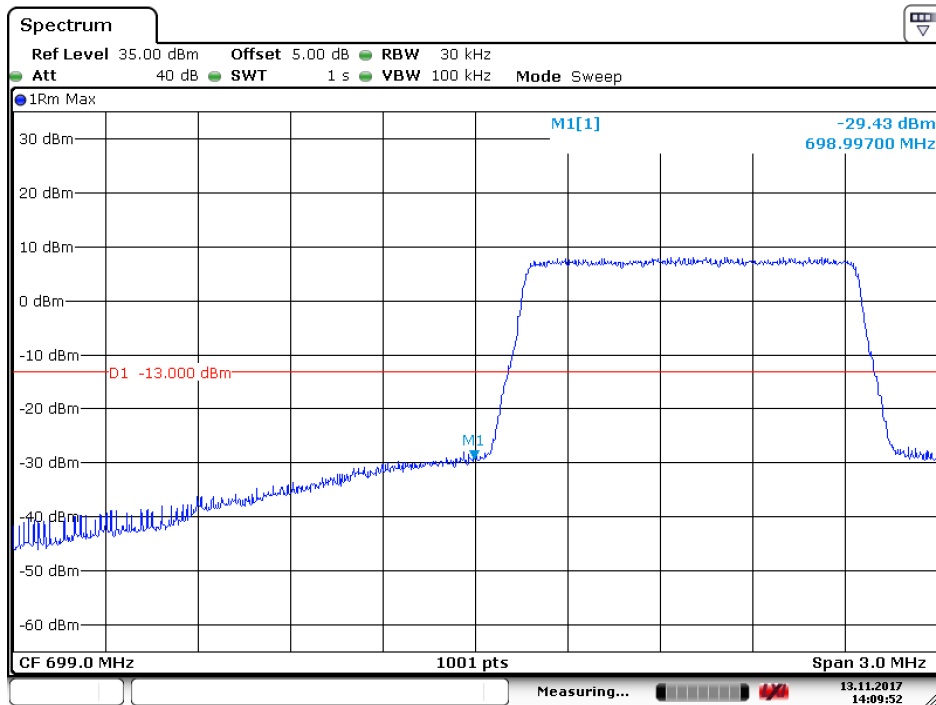
5.1.1.2.1.1 Test RB=1RB



Date: 13.NOV.2017 14:09:33



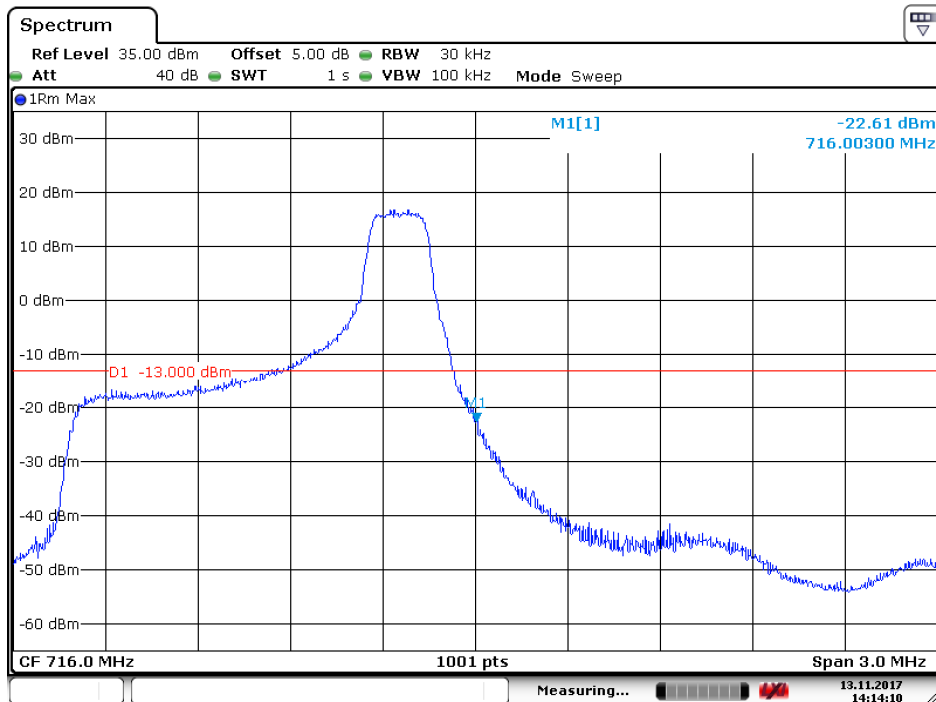
5.1.1.2.1.2 Test RB=6RB



Date: 13.NOV.2017 14:09:52

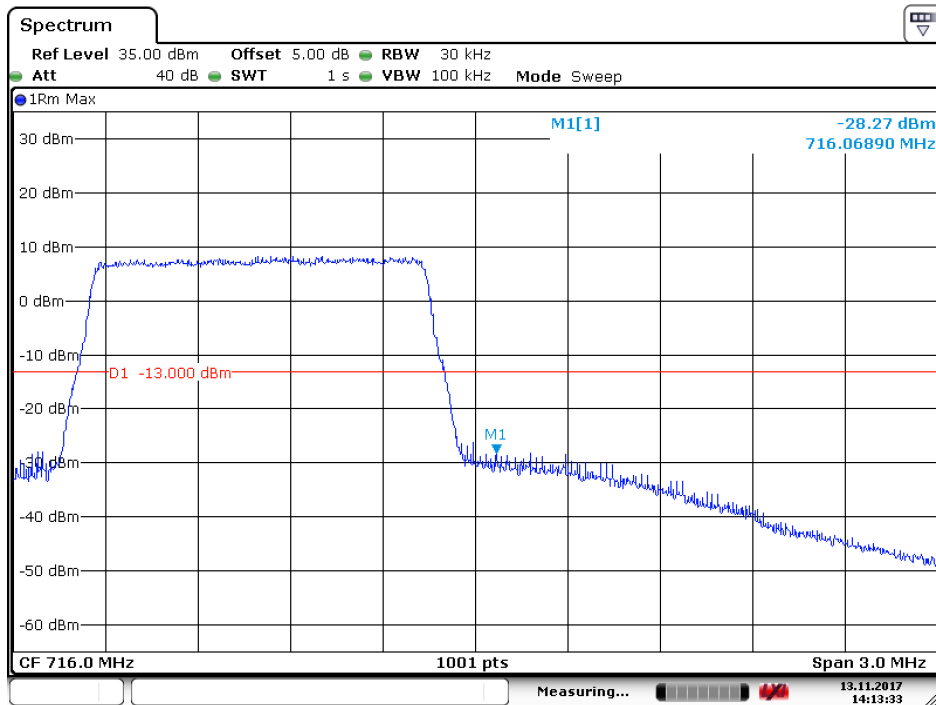
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 13.NOV.2017 14:14:10

5.1.1.2.2.2 Test RB=6RB

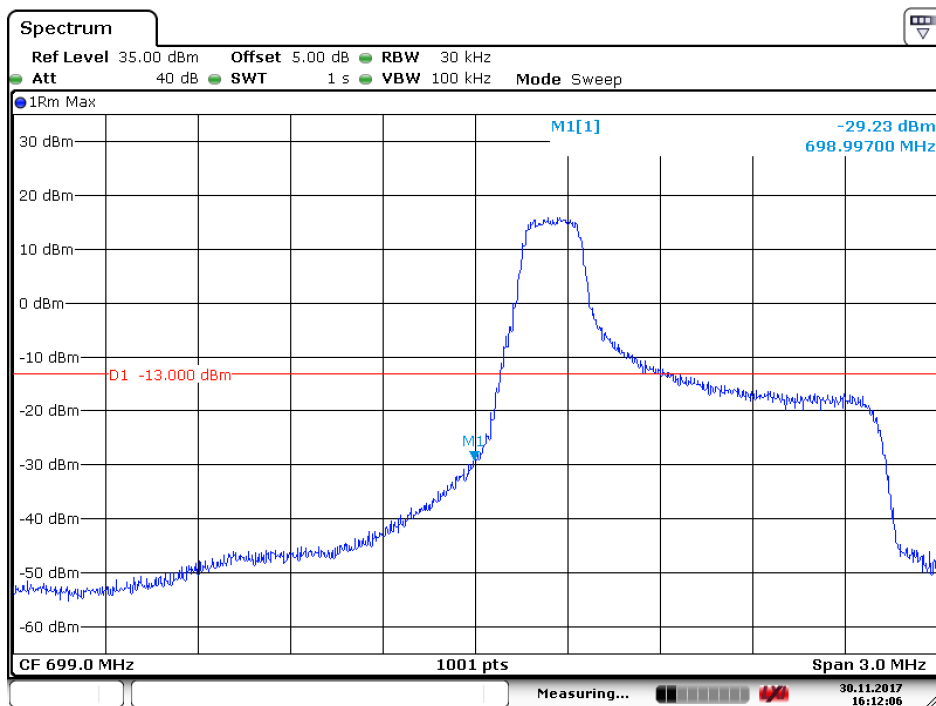


Date: 13.NOV.2017 14:13:33

5.1.1.3 Test Mode = LTE/TM3 1.4MHz

5.1.1.3.1 Test Channel = LCH

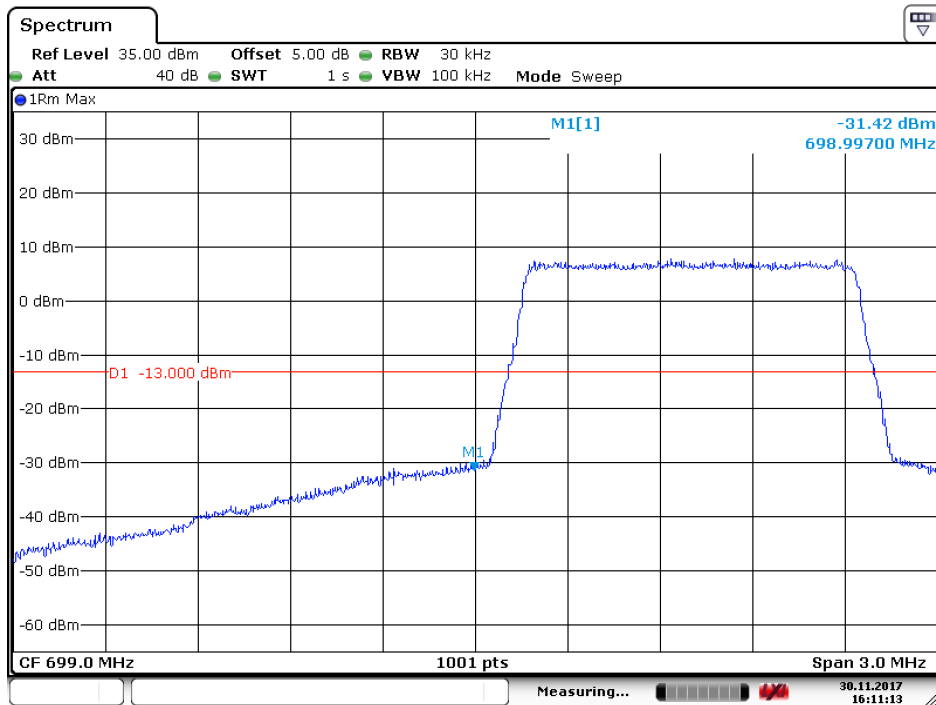
5.1.1.3.1.1 Test RB=1RB



Date: 30.NOV.2017 16:12:06



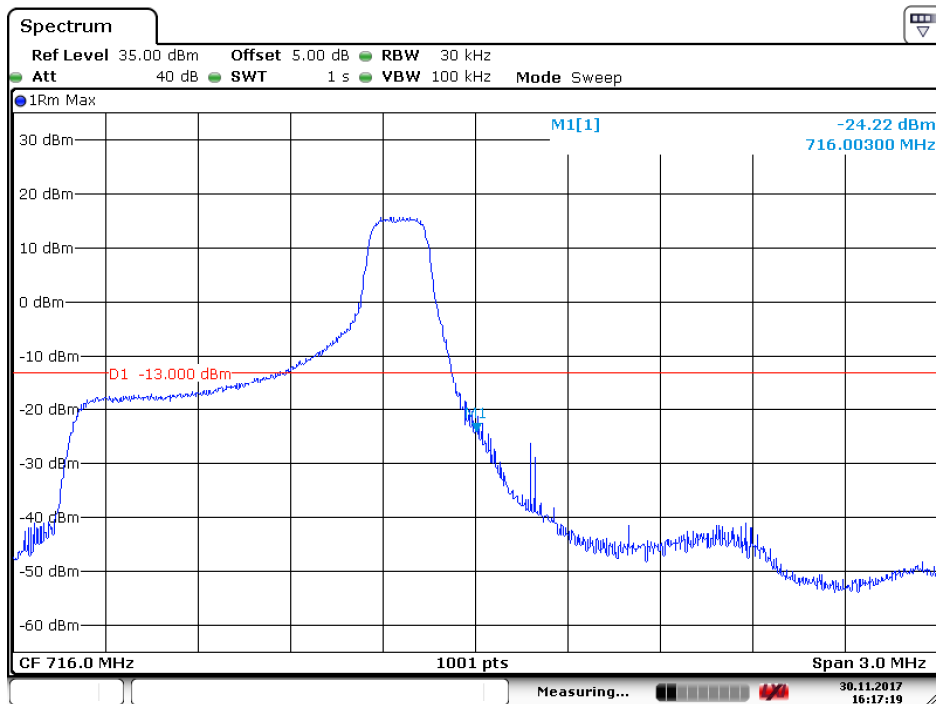
5.1.1.3.1.2 Test RB=6RB



Date: 30.NOV.2017 16:11:14

5.1.1.3.1 Test Channel = HCH

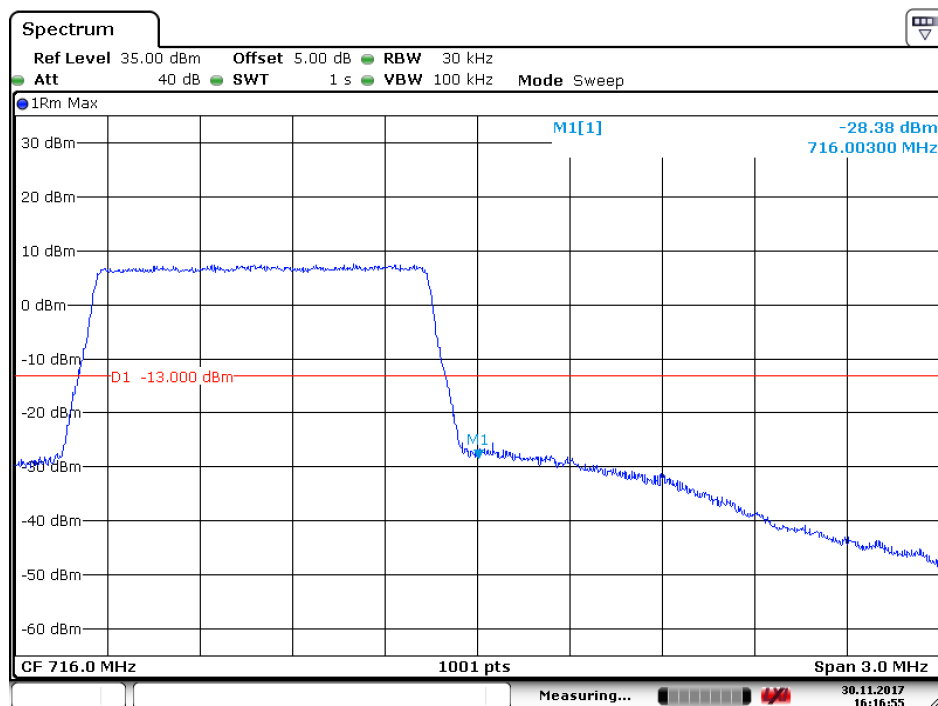
5.1.1.3.1.1 Test RB=1RB



Date: 30.NOV.2017 16:17:20



5.1.1.3.1.2 Test RB=6RB

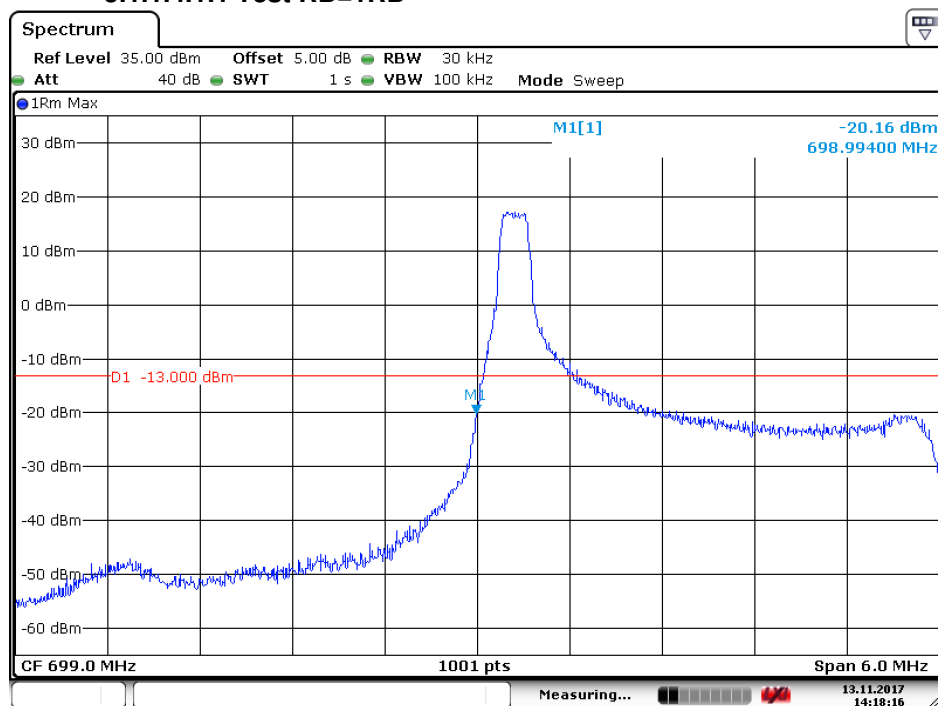


Date: 30.NOV.2017 16:16:55

5.1.1.4 Test Mode = LTE/TM1 3MHz

5.1.1.4.1 Test Channel = LCH

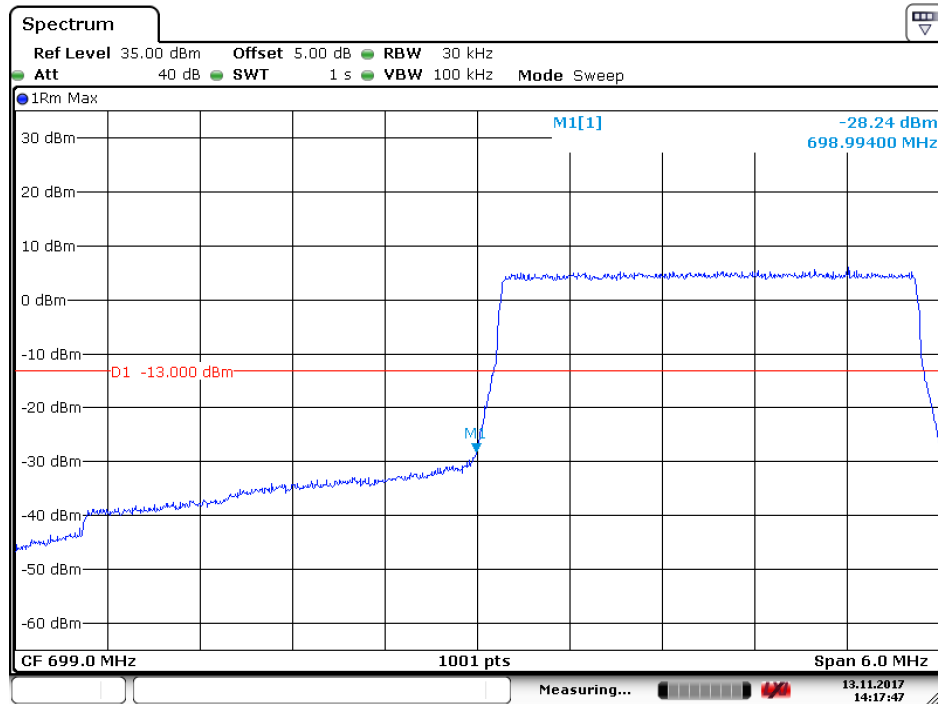
5.1.1.4.1.1 Test RB=1RB



Date: 13.NOV.2017 14:18:16



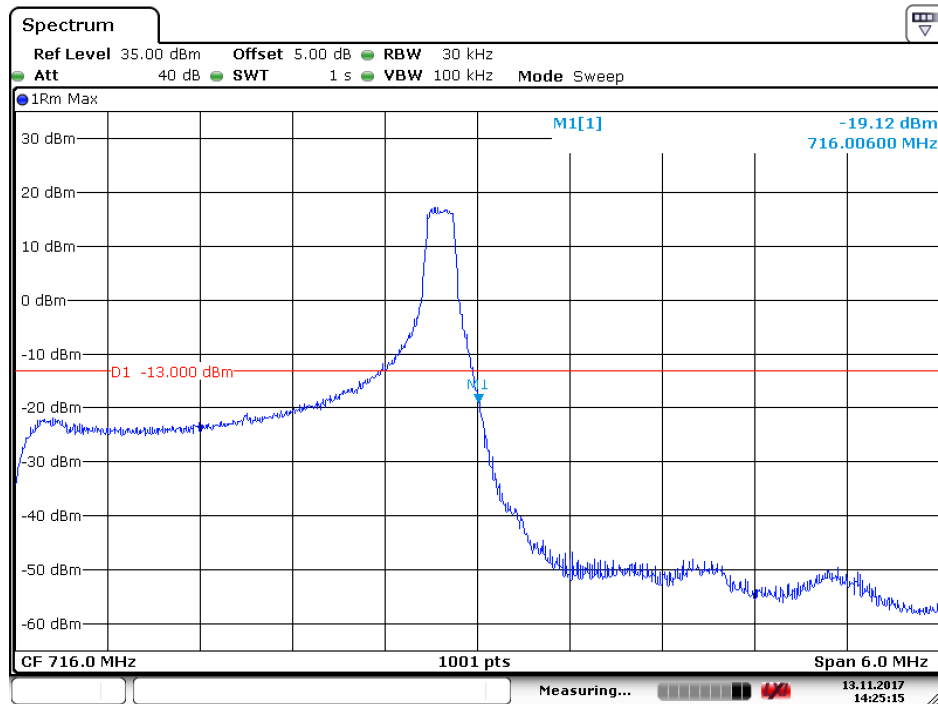
5.1.1.4.1.2 Test RB=15RB



Date: 13.NOV.2017 14:17:47

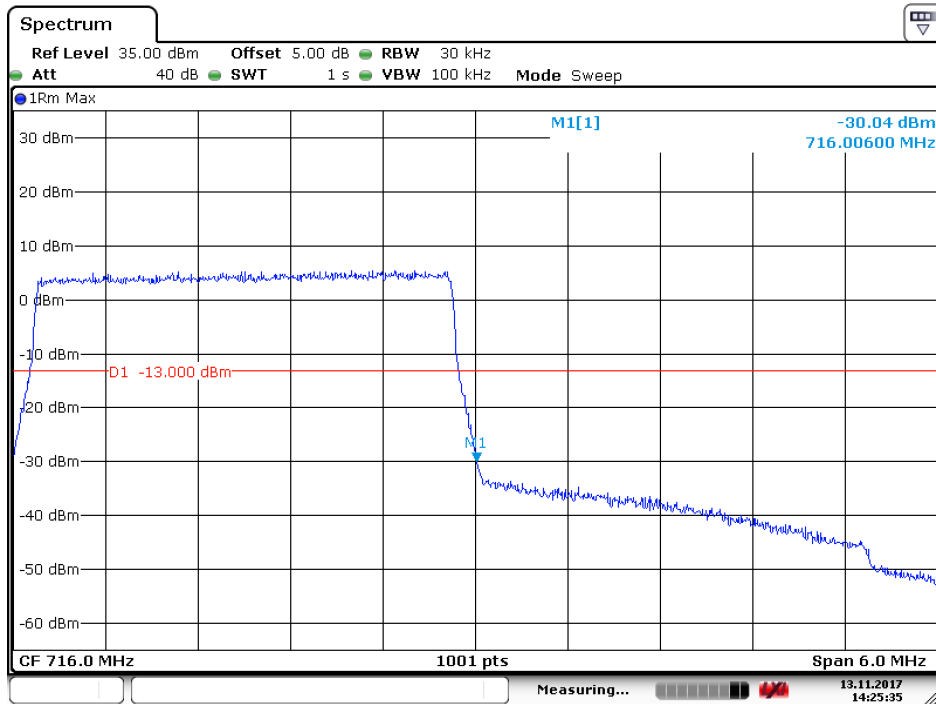
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 13.NOV.2017 14:25:15

5.1.1.4.2.2 Test RB=15RB

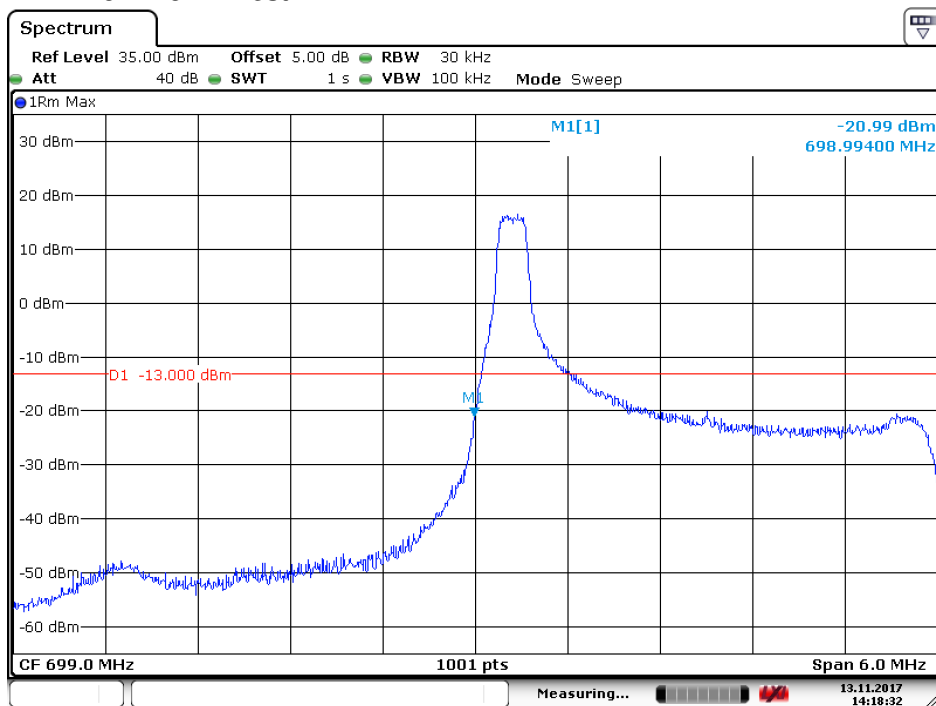


Date: 13.NOV.2017 14:25:36

5.1.1.5 Test Mode = LTE/TM2 3MHz

5.1.1.5.1 Test Channel = LCH

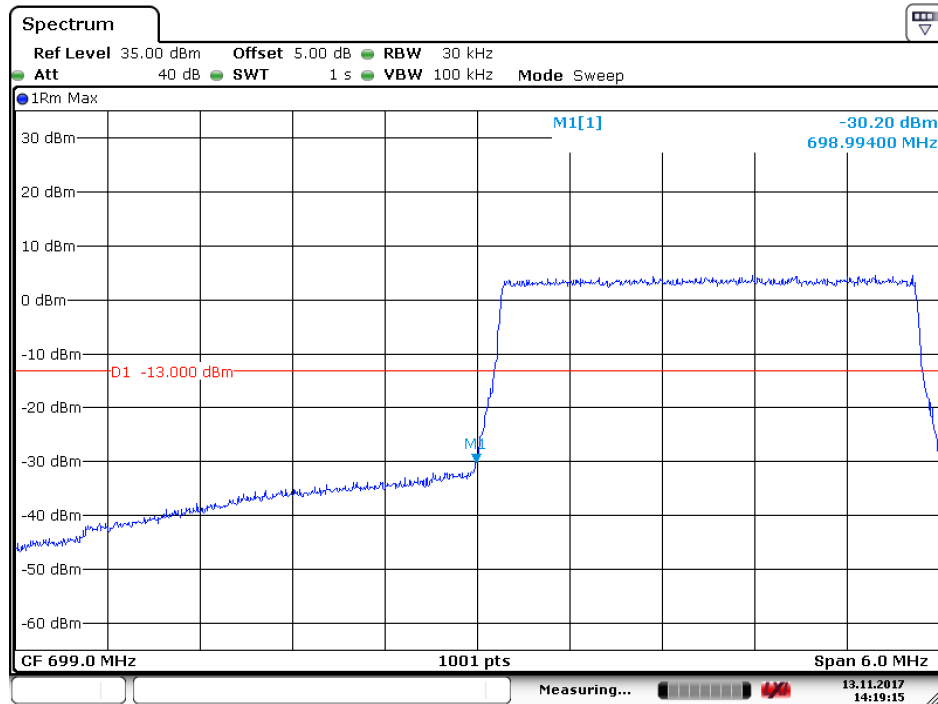
5.1.1.5.1.1 Test RB=1RB



Date: 13.NOV.2017 14:18:33



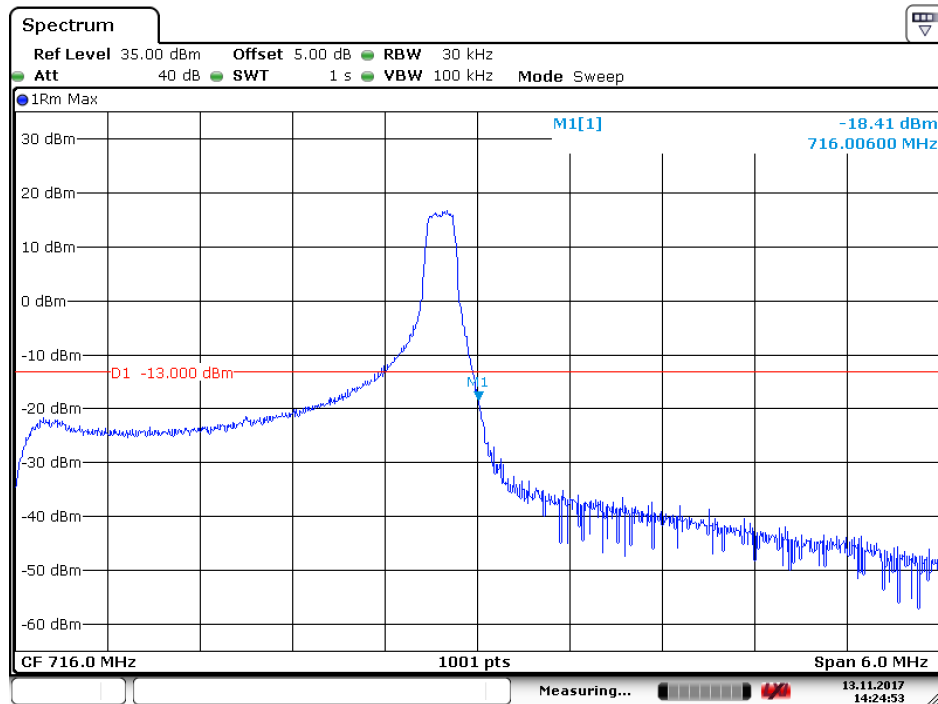
5.1.1.5.1.2 Test RB=15RB



Date: 13.NOV.2017 14:19:16

5.1.1.5.2 Test Channel = HCH

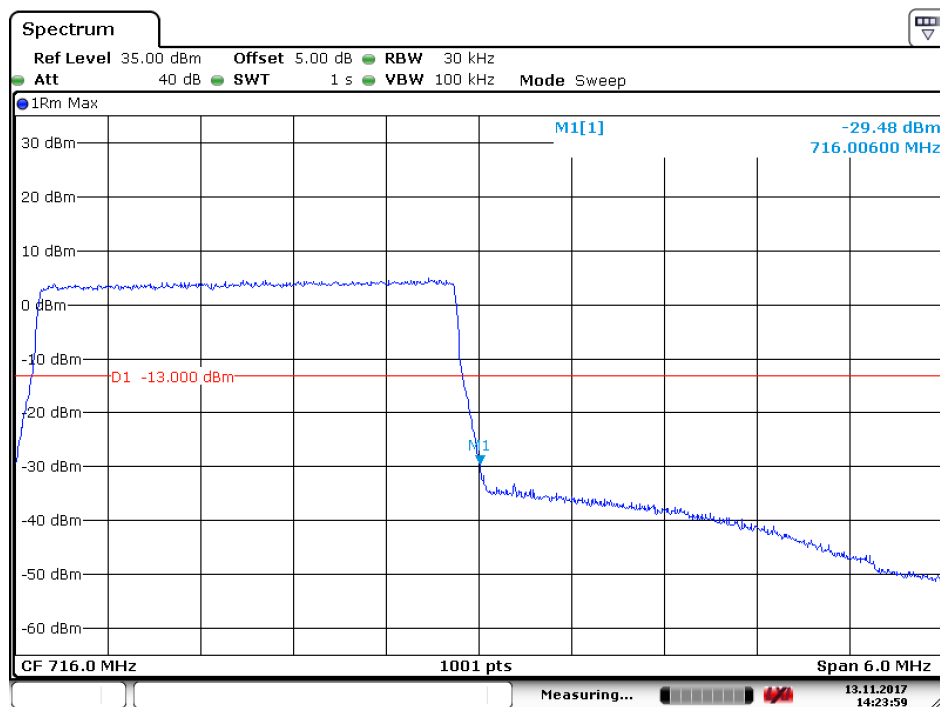
5.1.1.5.2.1 Test RB=1RB



Date: 13.NOV.2017 14:24:53



5.1.1.5.3 Test RB=15RB

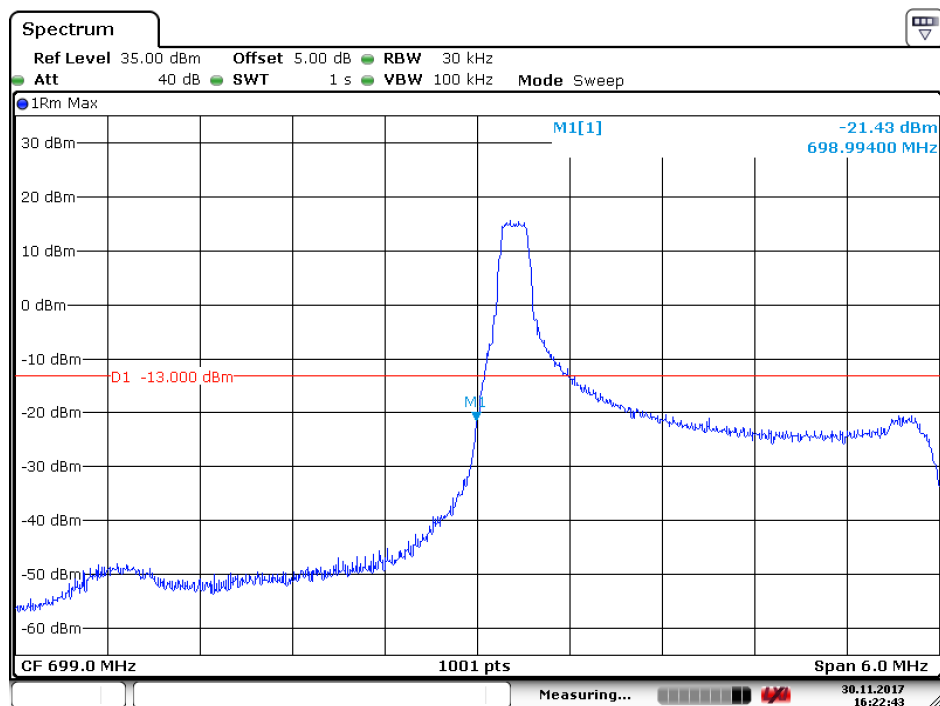


Date: 13.NOV.2017 14:23:59

5.1.1.6 Test Mode = LTE/TM3 3MHz

5.1.1.6.1 Test Channel = LCH

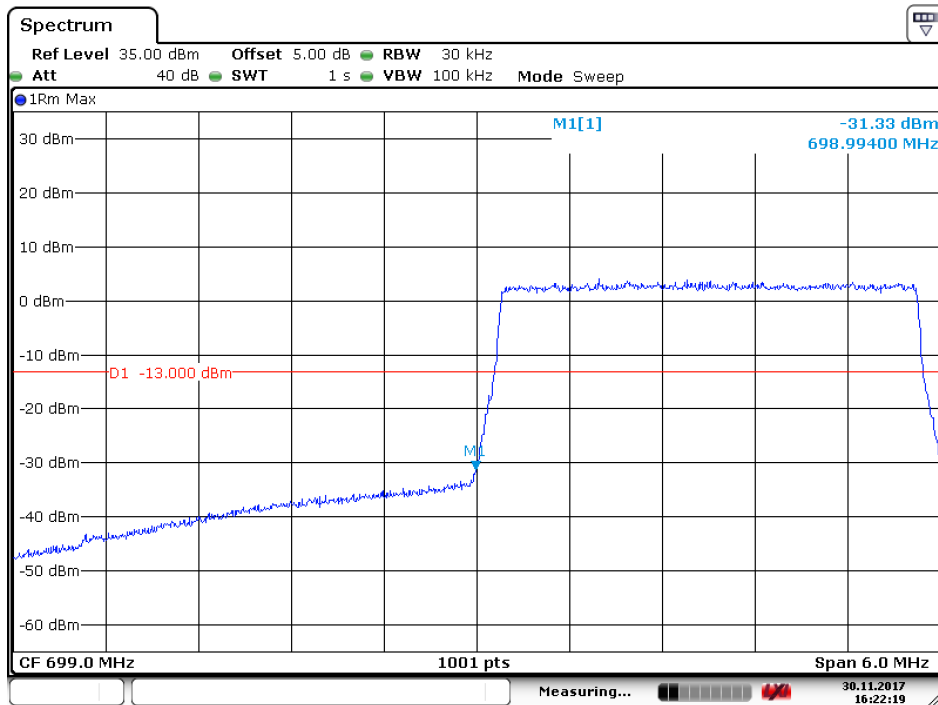
5.1.1.6.1.1 Test RB=1RB



Date: 30.NOV.2017 16:22:44



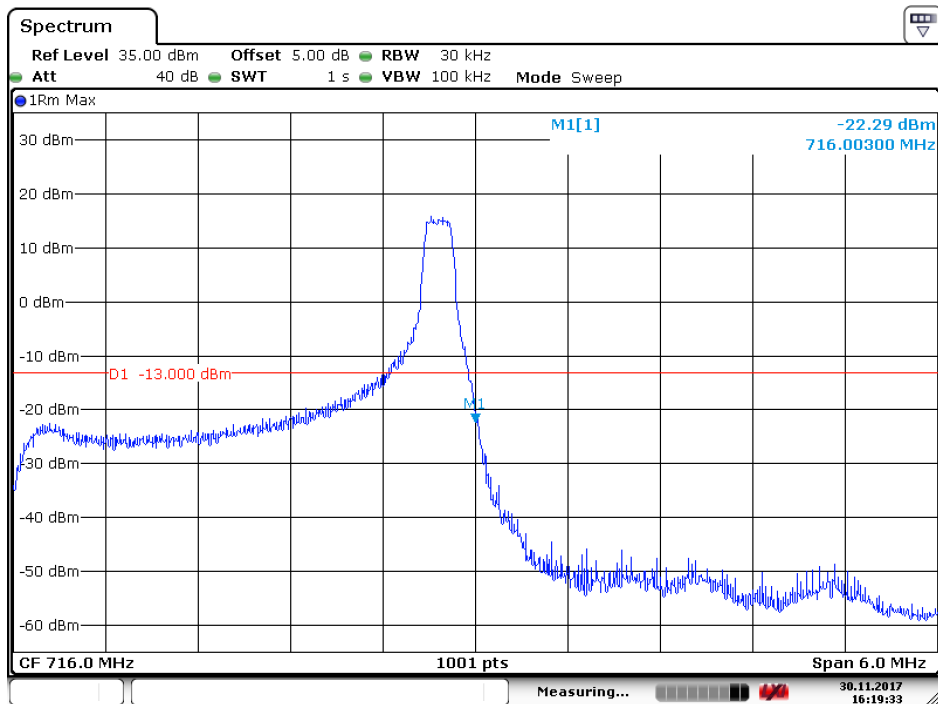
5.1.1.6.1.2 Test RB=15RB



Date: 30.NOV.2017 16:22:18

5.1.1.6.1 Test Channel = HCH

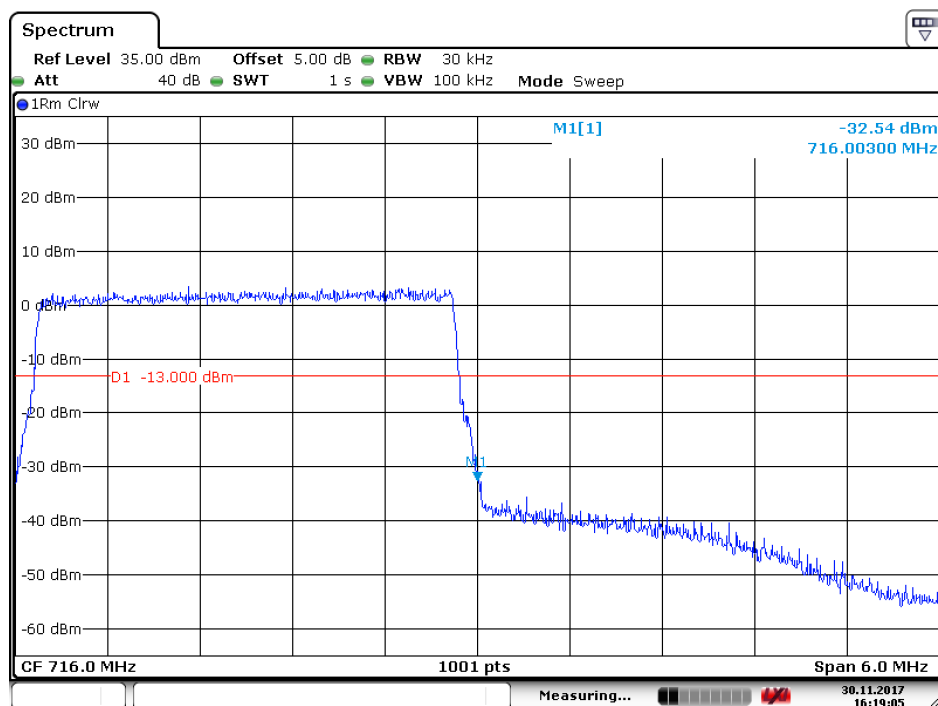
5.1.1.6.1.1 Test RB=1RB



Date: 30.NOV.2017 16:19:34



5.1.1.6.1 Test RB=15RB

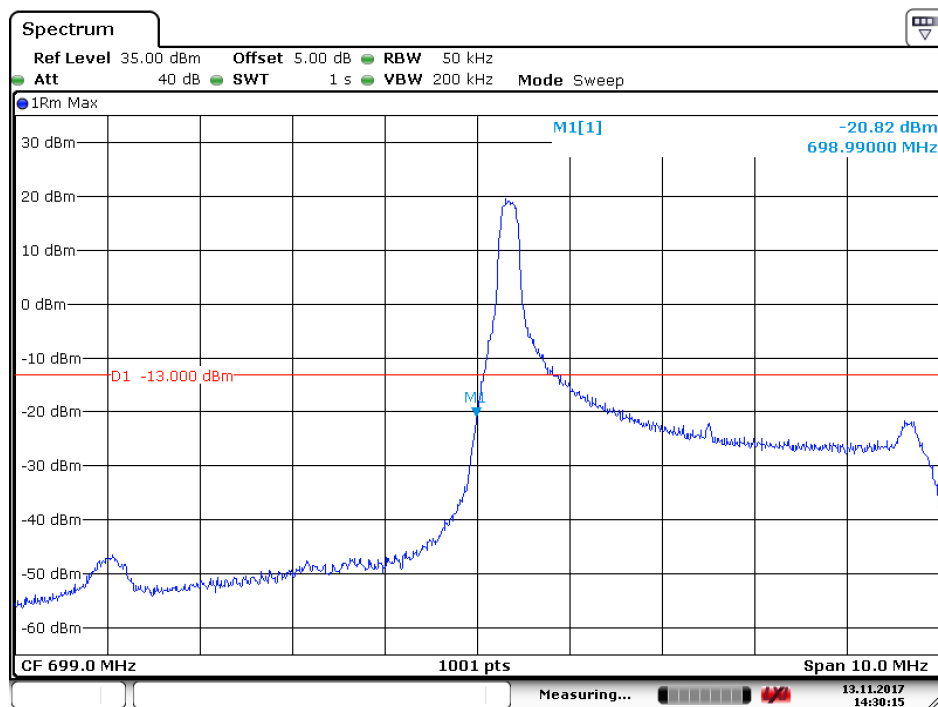


Date: 30.NOV.2017 16:19:05

5.1.1.7 Test Mode = LTE/TM1 5MHz

5.1.1.7.1 Test Channel = LCH

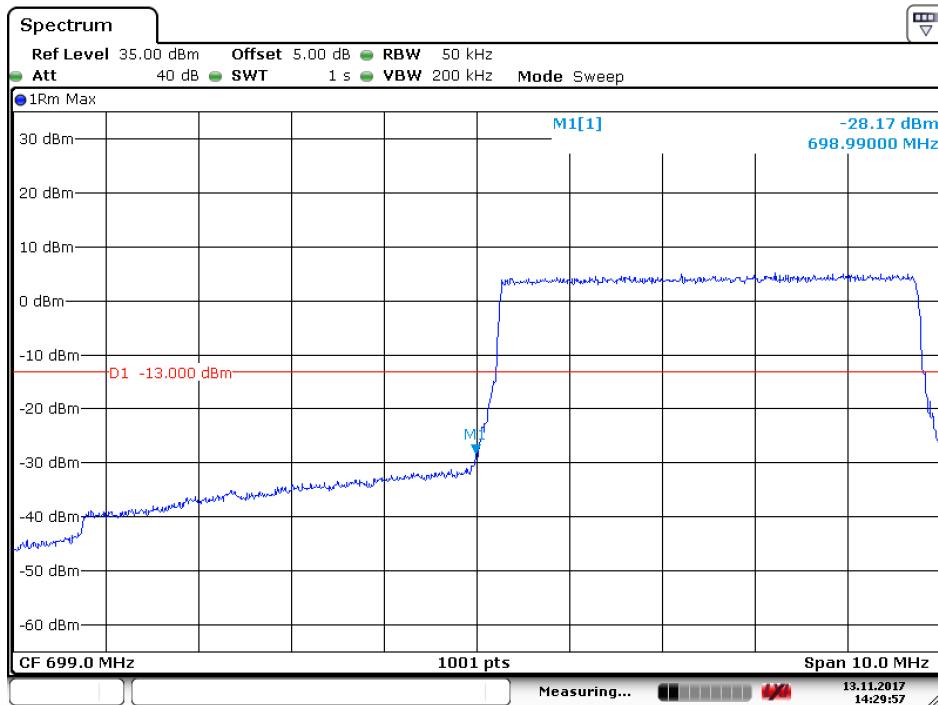
5.1.1.7.1.1 Test RB=1RB



Date: 13.NOV.2017 14:30:15



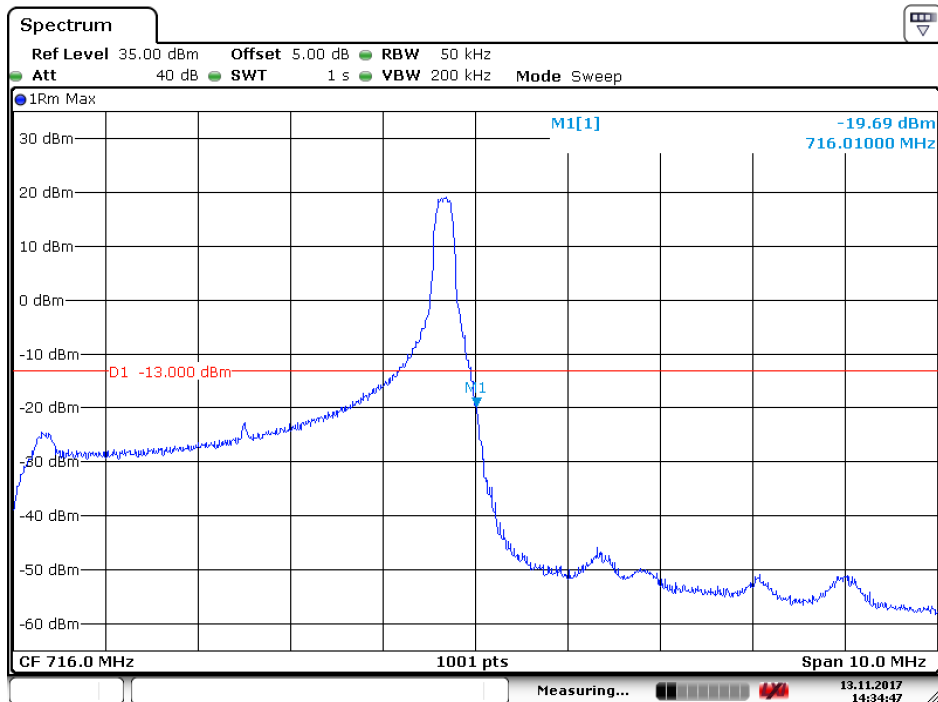
5.1.1.7.1.2 Test RB=25RB



Date: 13.NOV.2017 14:29:57

5.1.1.7.2 Test Channel = HCH

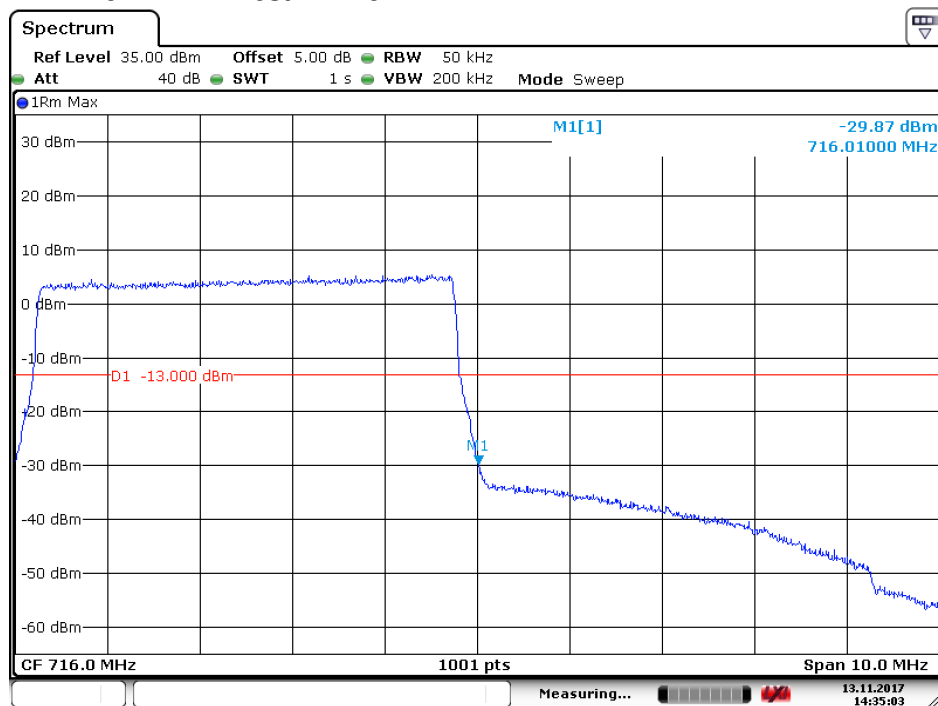
5.1.1.7.2.1 Test RB=1RB



Date: 13.NOV.2017 14:34:47



5.1.1.7.2.2 Test RB=25RB

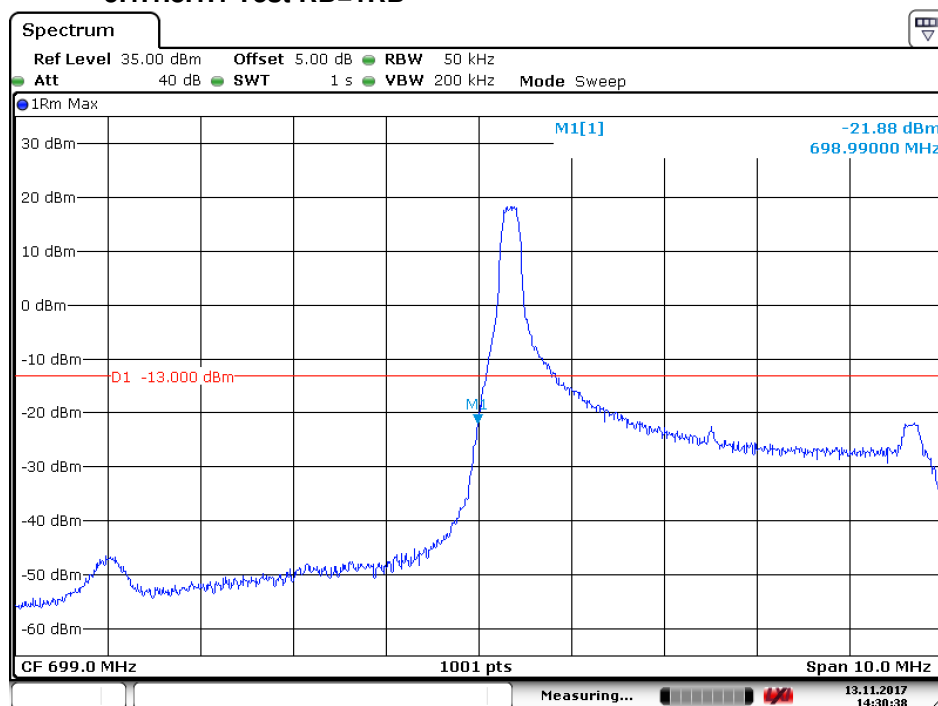


Date: 13.NOV.2017 14:35:04

5.1.1.8 Test Mode = LTE/TM2 5MHz

5.1.1.8.1 Test Channel = LCH

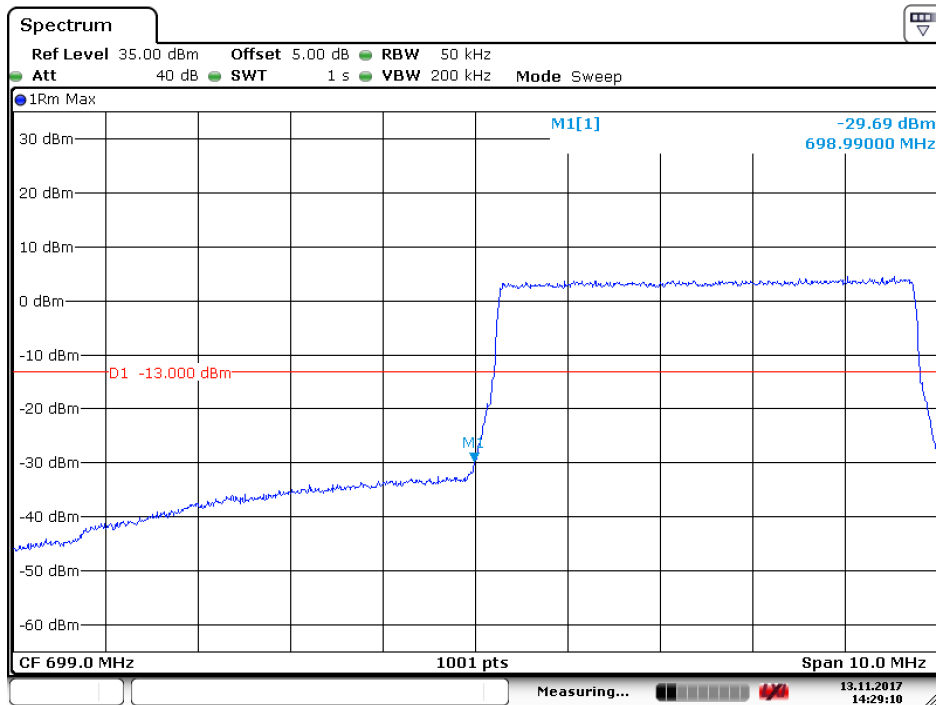
5.1.1.8.1.1 Test RB=1RB



Date: 13.NOV.2017 14:30:39



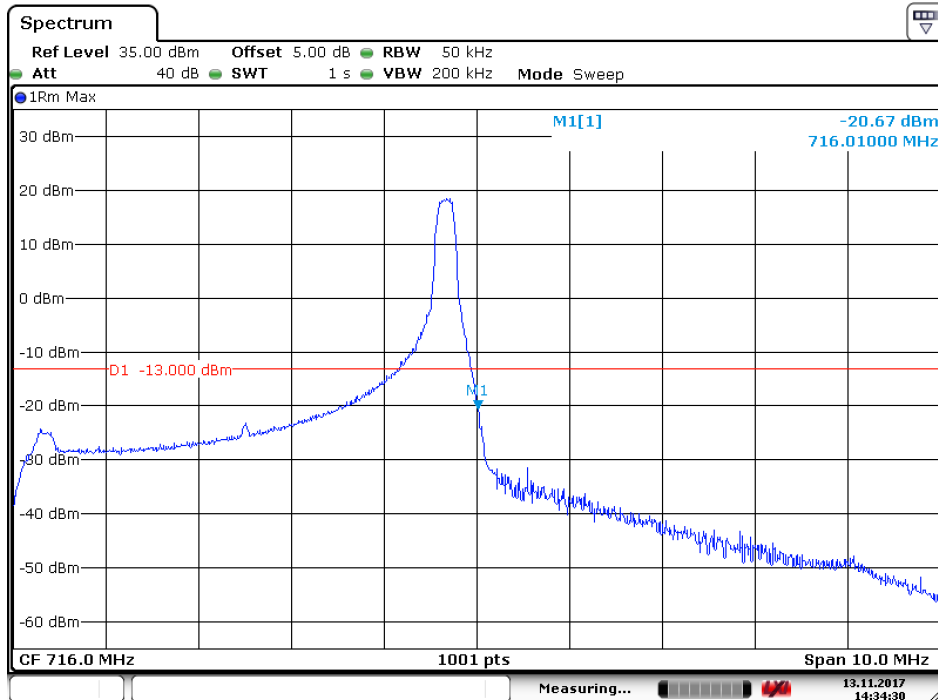
5.1.1.8.1.2 Test RB=25RB



Date: 13.NOV.2017 14:29:11

5.1.1.8.2 Test Channel = HCH

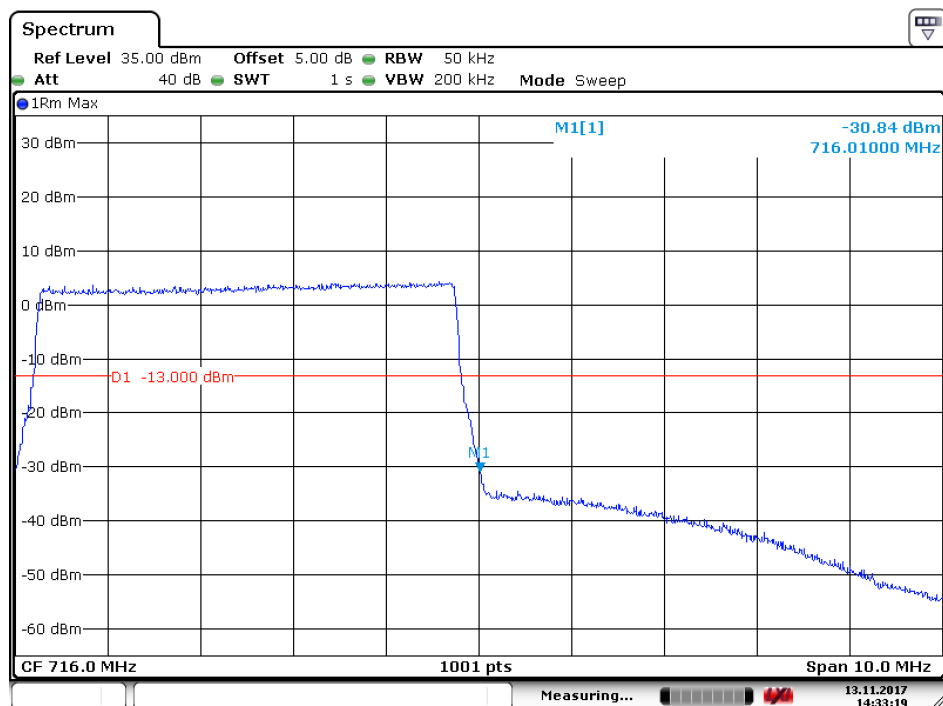
5.1.1.8.2.1 Test RB=1RB



Date: 13.NOV.2017 14:34:31



5.1.1.8.2.2 Test RB=25RB

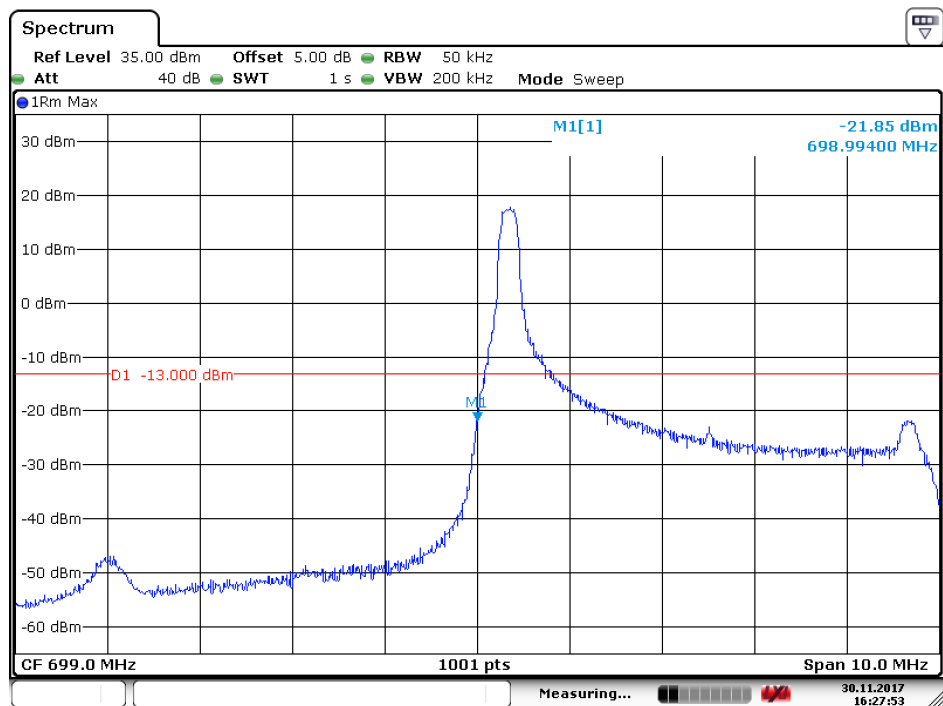


Date: 13.NOV.2017 14:33:20

5.1.1.9 Test Mode = LTE/TM3 5MHz

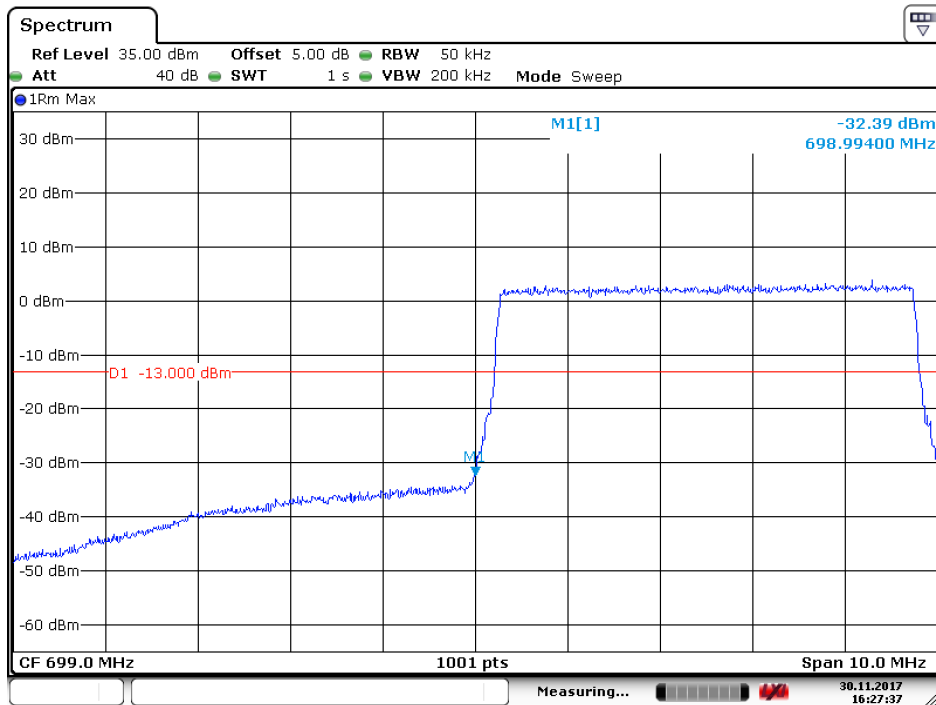
5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 30.NOV.2017 16:27:53

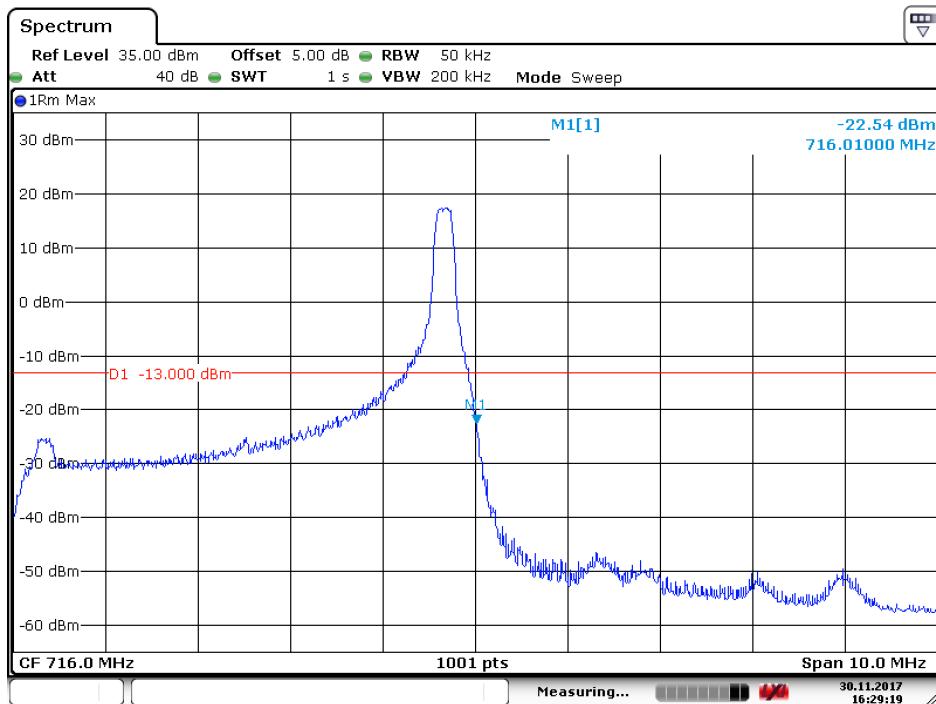
5.1.1.9.1.2 Test RB=25RB



Date: 30.NOV.2017 16:27:37

5.1.1.9.1 Test Channel = HCH

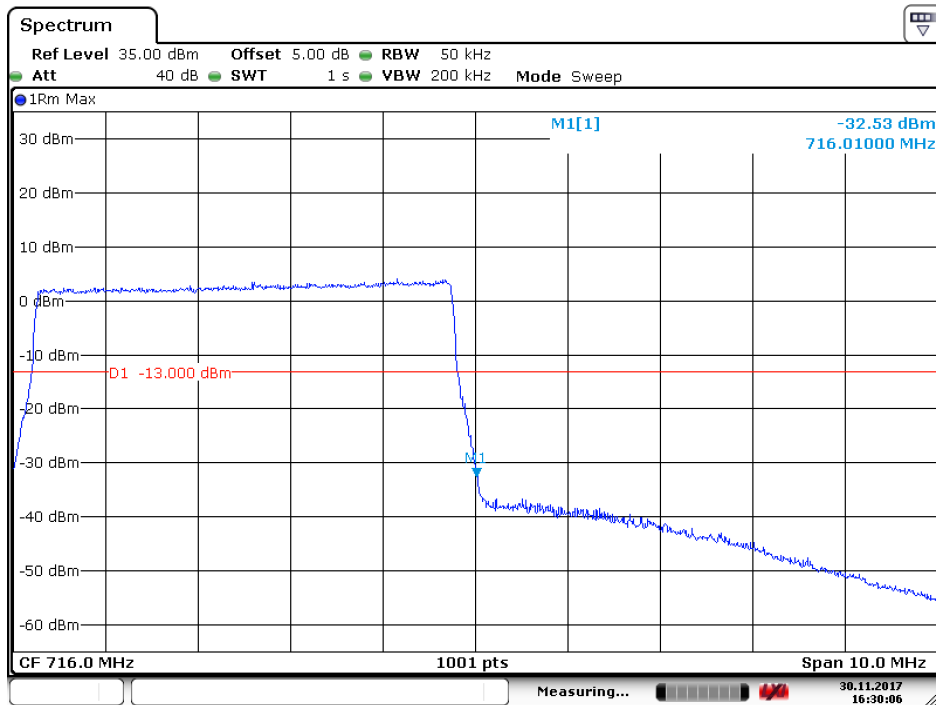
5.1.1.9.1.1 Test RB=1RB



Date: 30.NOV.2017 16:29:20



5.1.1.9.1.2 Test RB=25RB

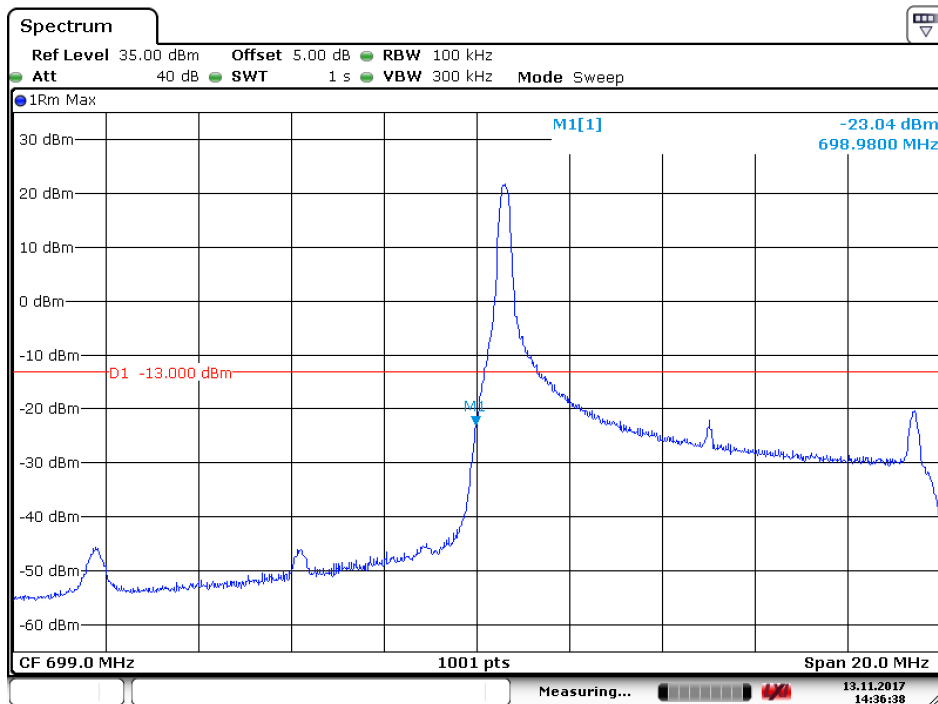


Date: 30.NOV.2017 16:30:06

5.1.1.10 Test Mode = LTE/TM1 10MHz

5.1.1.10.1 Test Channel = LCH

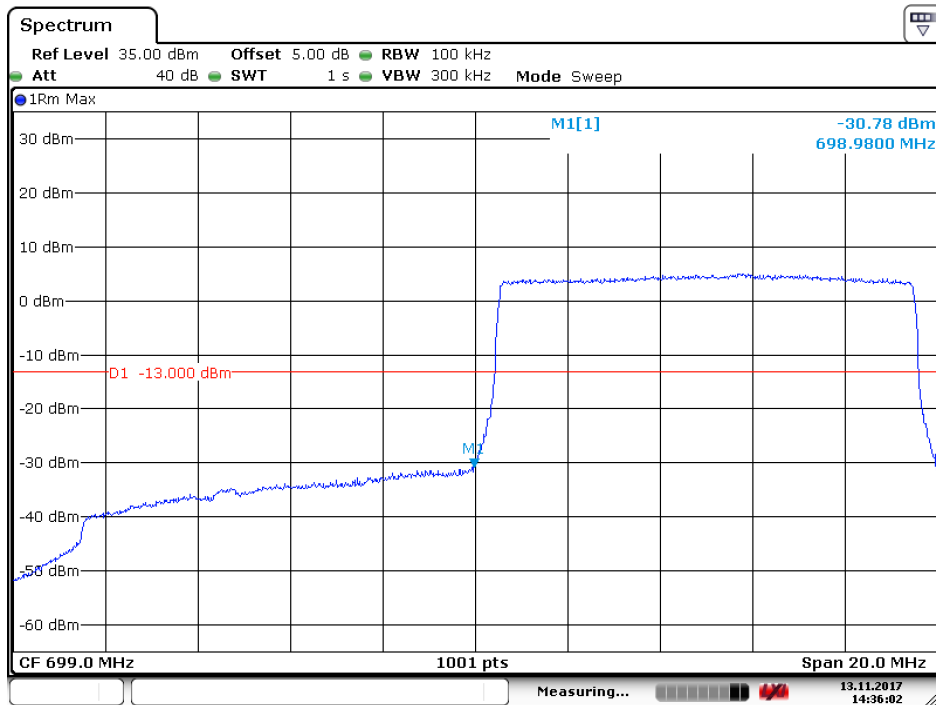
5.1.1.10.1.1 Test RB=1RB



Date: 13.NOV.2017 14:36:38



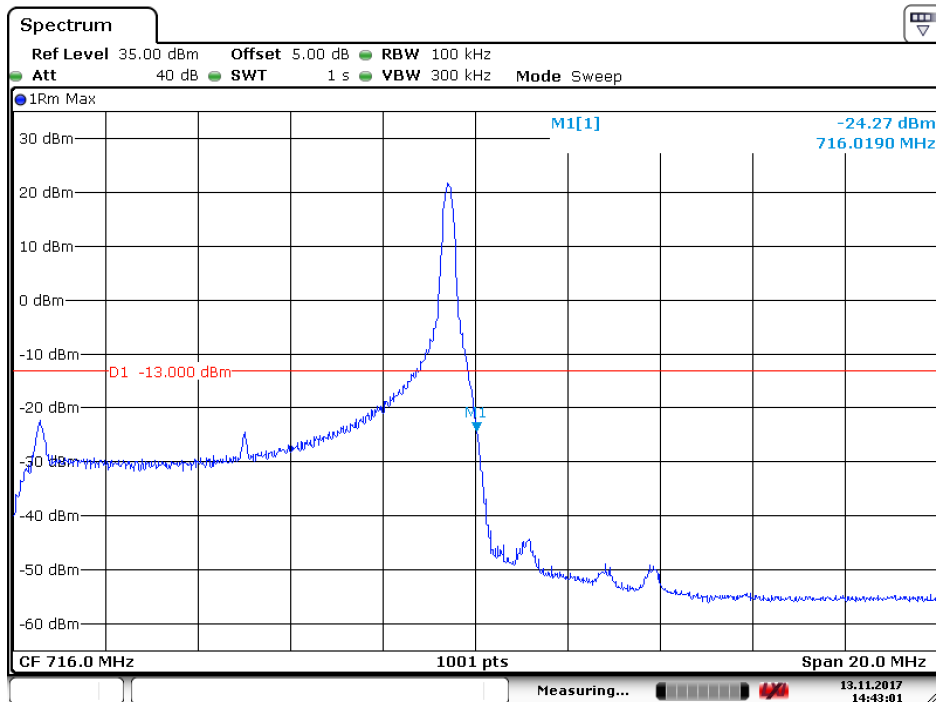
5.1.1.10.1.2 Test RB=50RB



Date: 13.NOV.2017 14:36:02

5.1.1.10.2 Test Channel = HCH

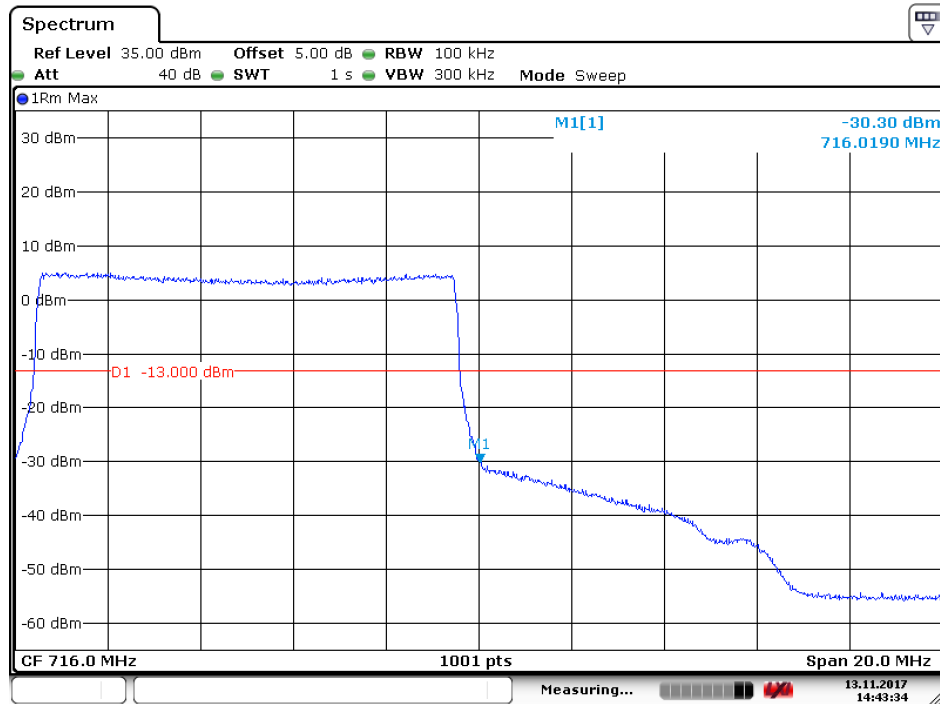
5.1.1.10.2.1 Test RB=1RB



Date: 13.NOV.2017 14:43:02



5.1.1.10.2 Test RB=50RB

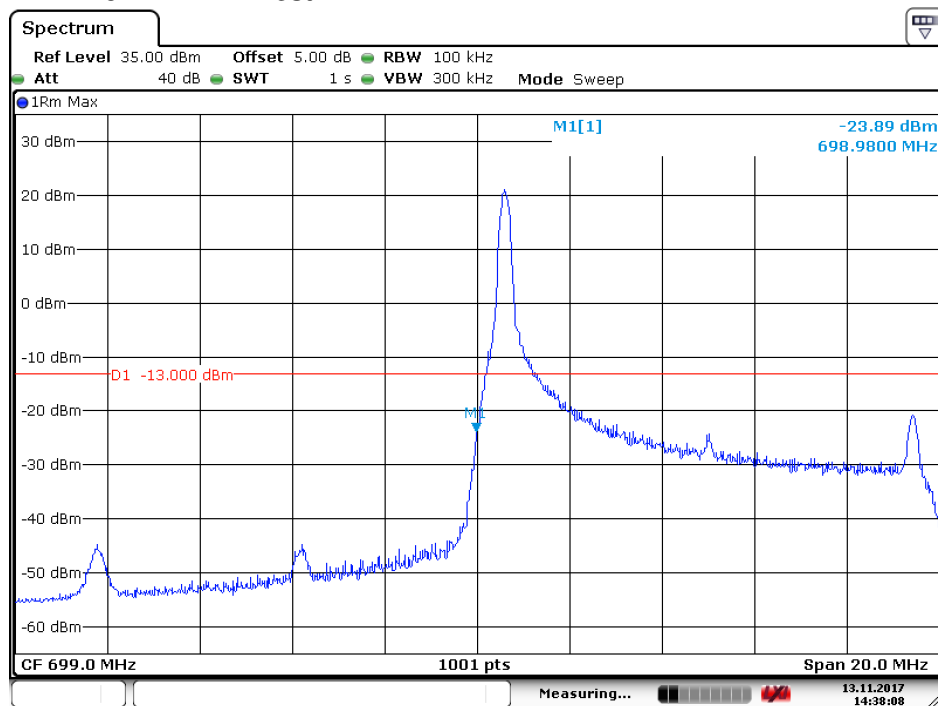


Date: 13.NOV.2017 14:43:34

5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

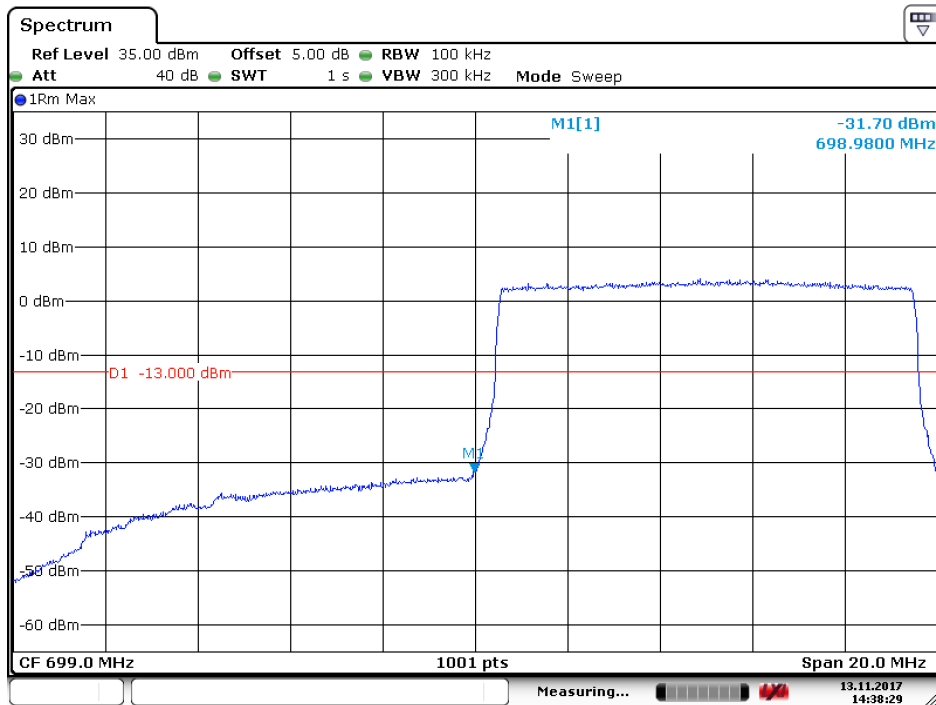
5.1.1.11.1.1 Test RB=1RB



Date: 13.NOV.2017 14:38:09



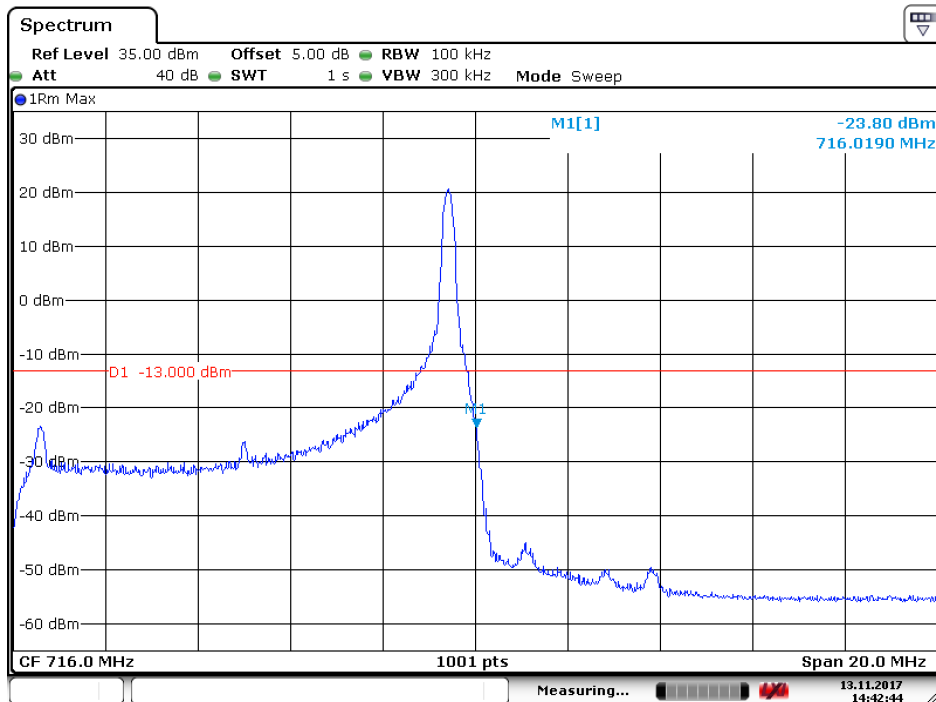
5.1.1.11.1.2 Test RB=50RB



Date: 13.NOV.2017 14:38:29

5.1.1.11.2 Test Channel = HCH

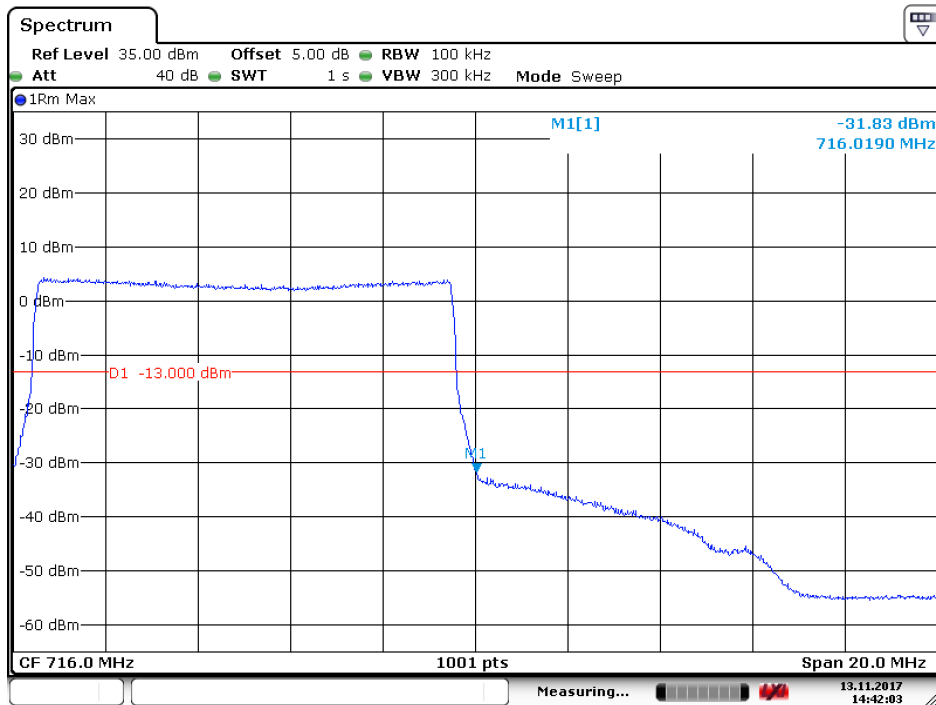
5.1.1.11.2.1 Test RB=1RB



Date: 13.NOV.2017 14:42:45



5.1.1.11.2.2 Test RB=50RB

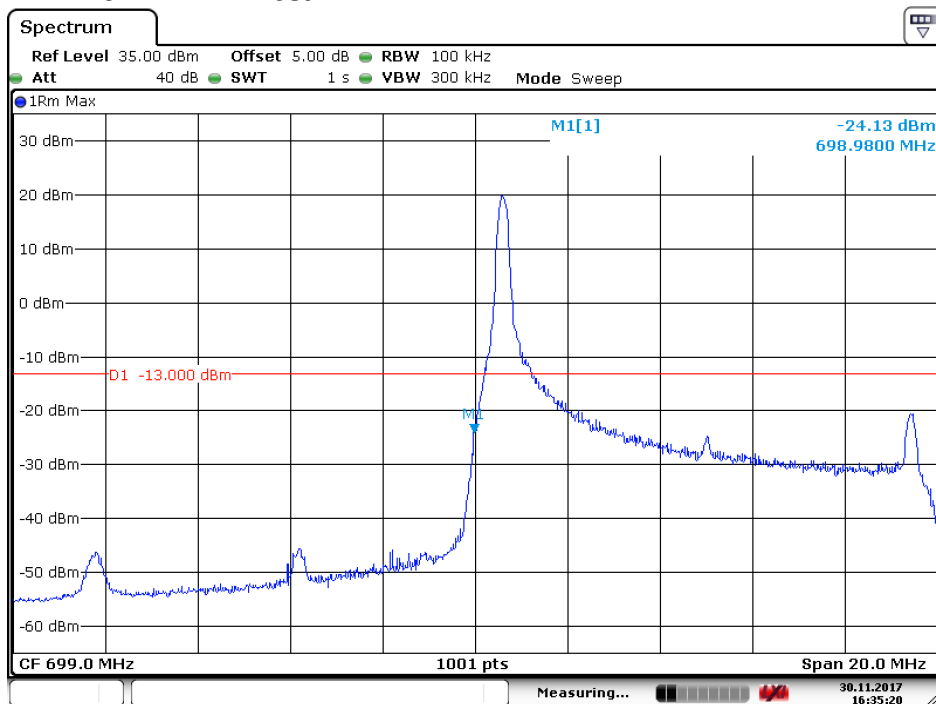


Date: 13.NOV.2017 14:42:03

5.1.1.12 Test Mode = LTE/TM3 10MHz

5.1.1.12.1 Test Channel = LCH

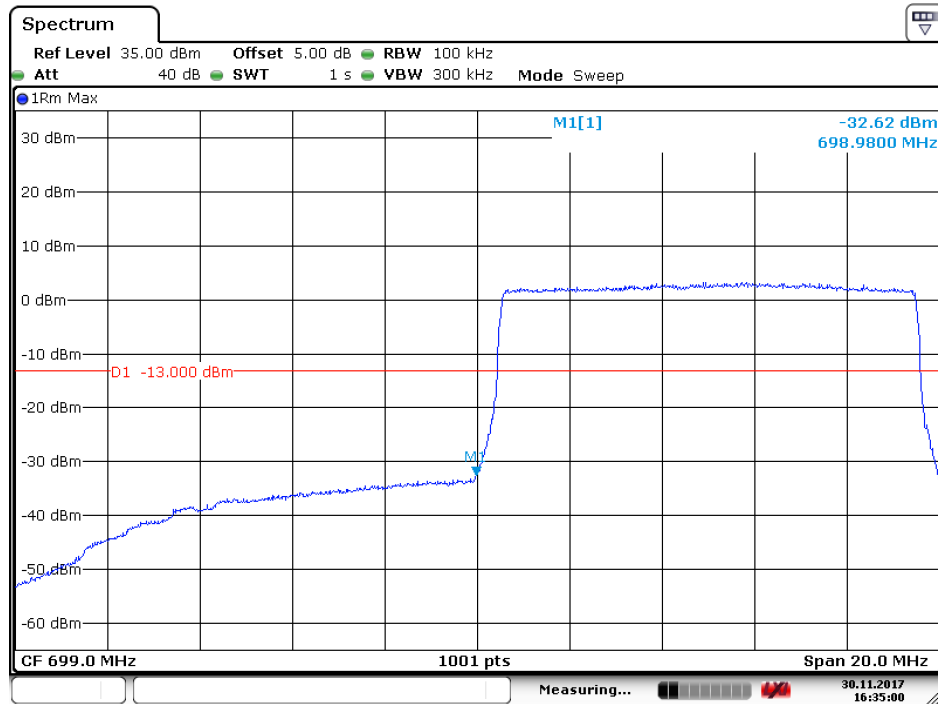
5.1.1.12.1.1 Test RB=1RB



Date: 30.NOV.2017 16:35:20



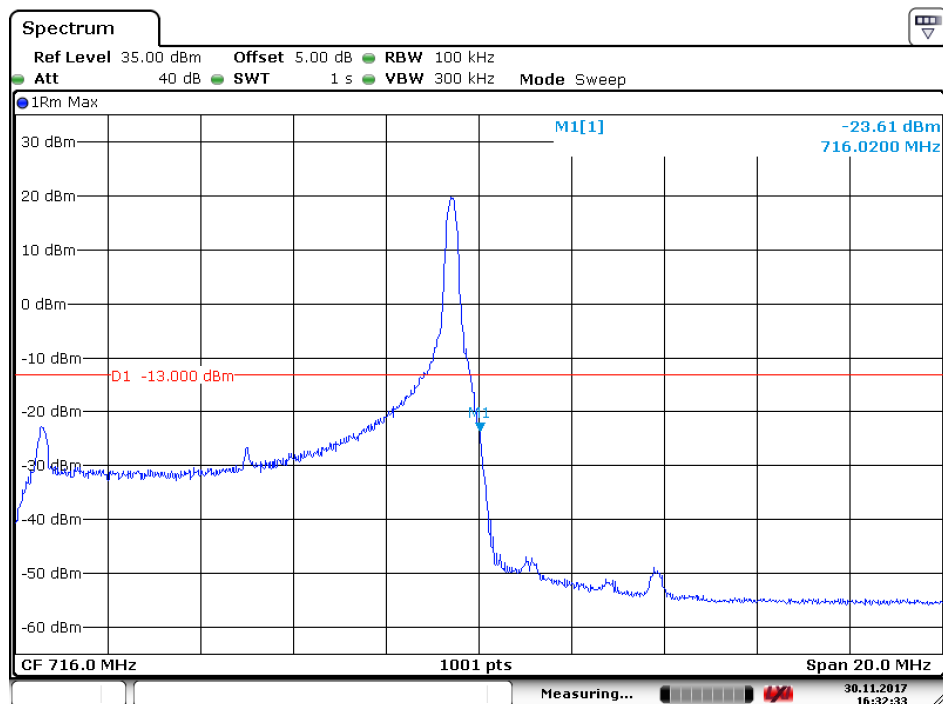
5.1.1.12.1.2 Test RB=50RB



Date: 30.NOV.2017 16:35:00

5.1.1.12.1 Test Channel = HCH

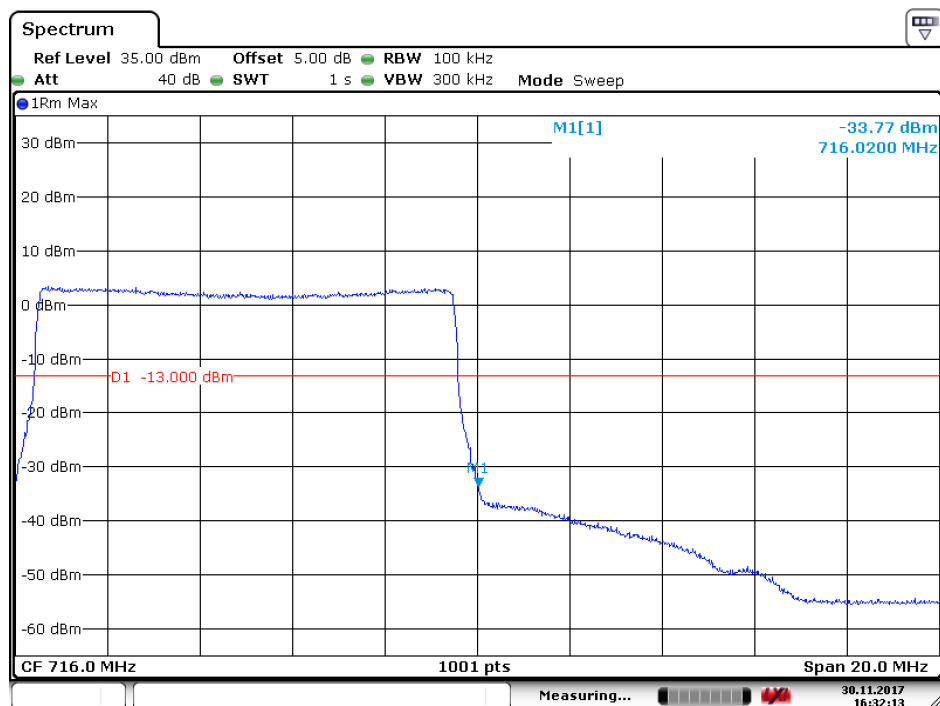
5.1.1.12.1.1 Test RB=1RB



Date: 30.NOV.2017 16:32:33



5.1.1.12.1.2 Test RB=50RB



Date: 30.NOV.2017 16:32:13



6 Spurious Emission at Antenna Terminal

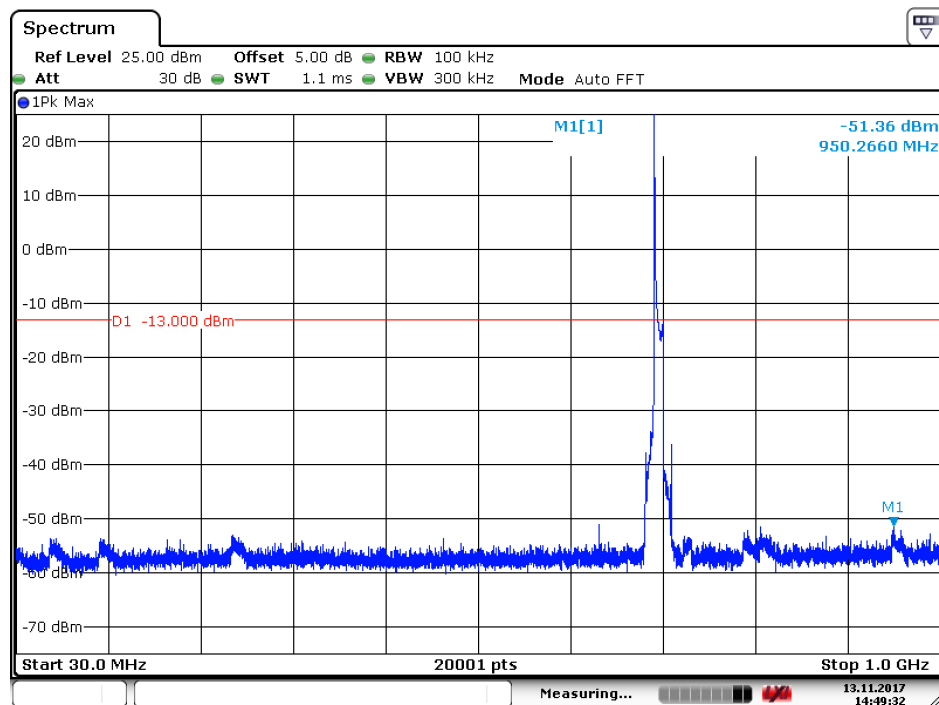
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k \cdot (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

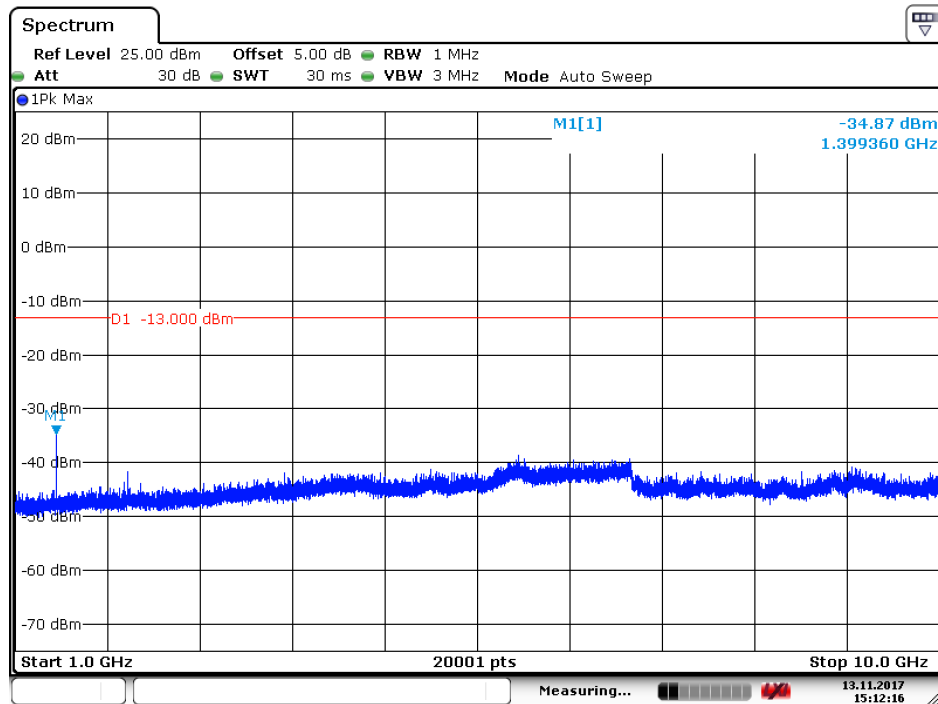
6.1 For LTE

6.1.1.1 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.1.1 Test Channel = LCH

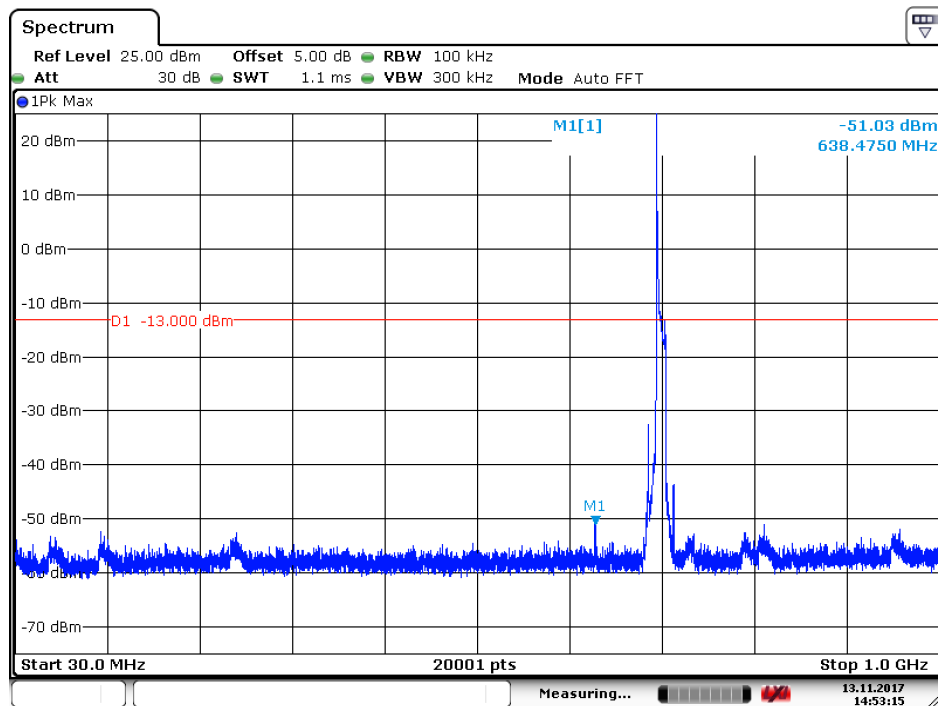


Date: 13.NOV.2017 14:49:32

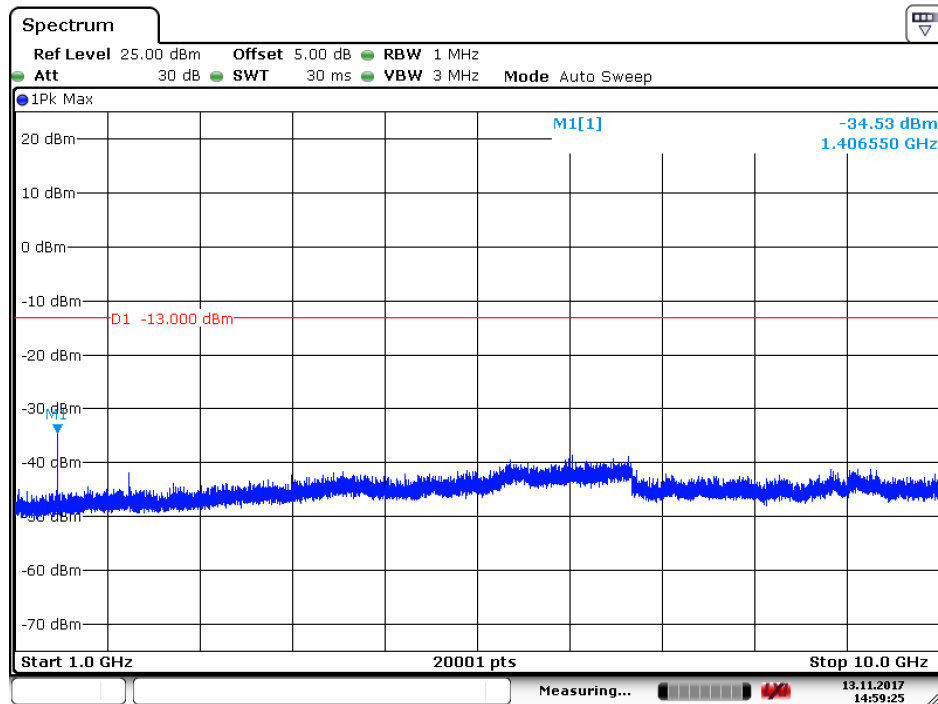


Date: 13.NOV.2017 15:12:16

6.1.1.1.2 Test Channel = MCH

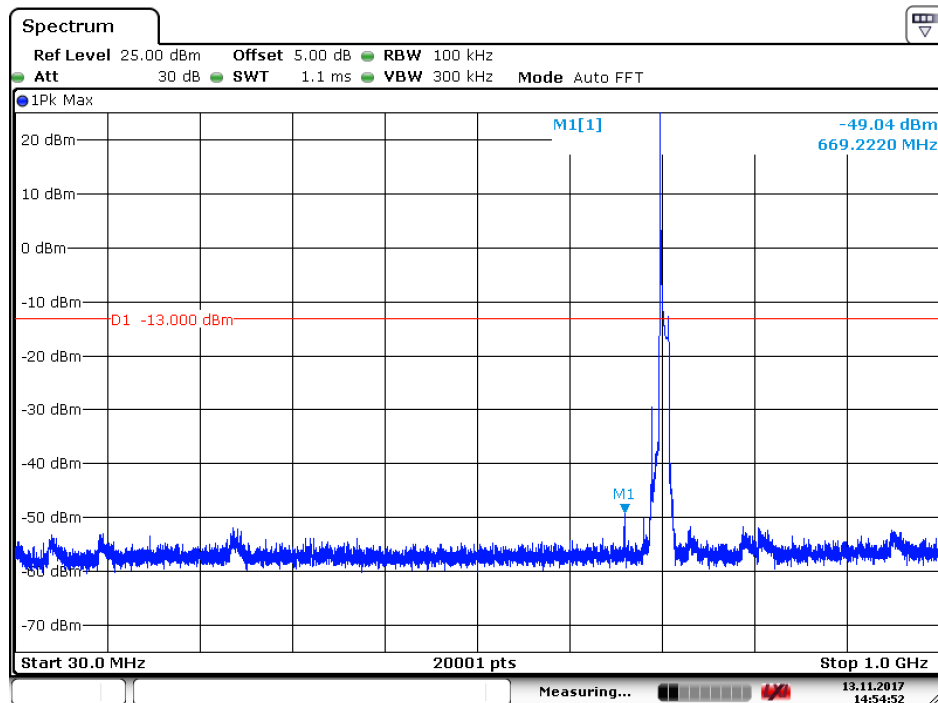


Date: 13.NOV.2017 14:53:15

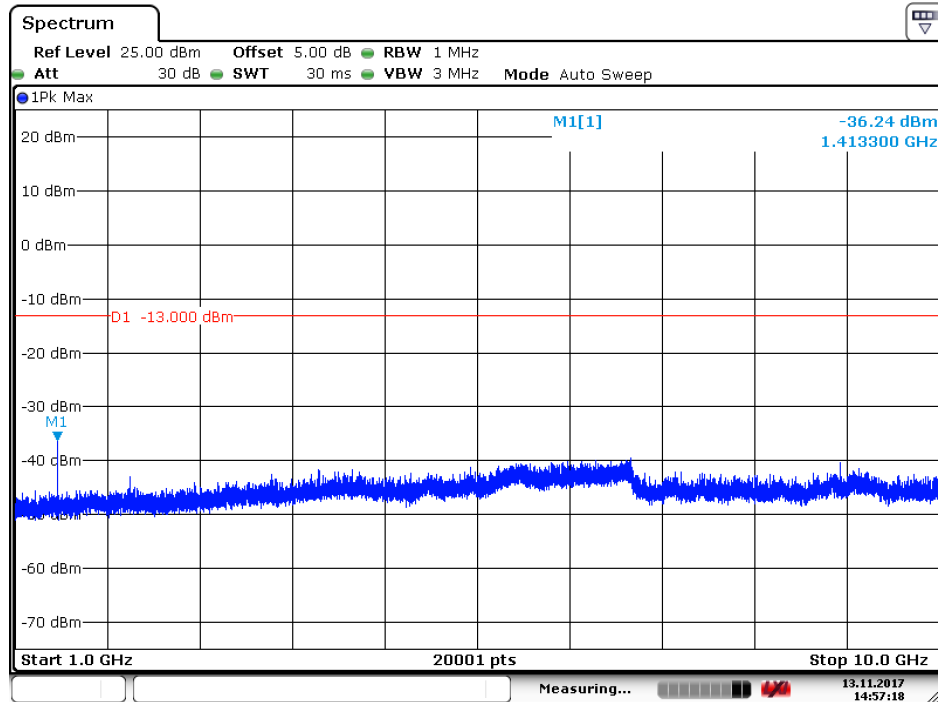


Date: 13.NOV.2017 14:59:26

6.1.1.1.3 Test Channel = HCH



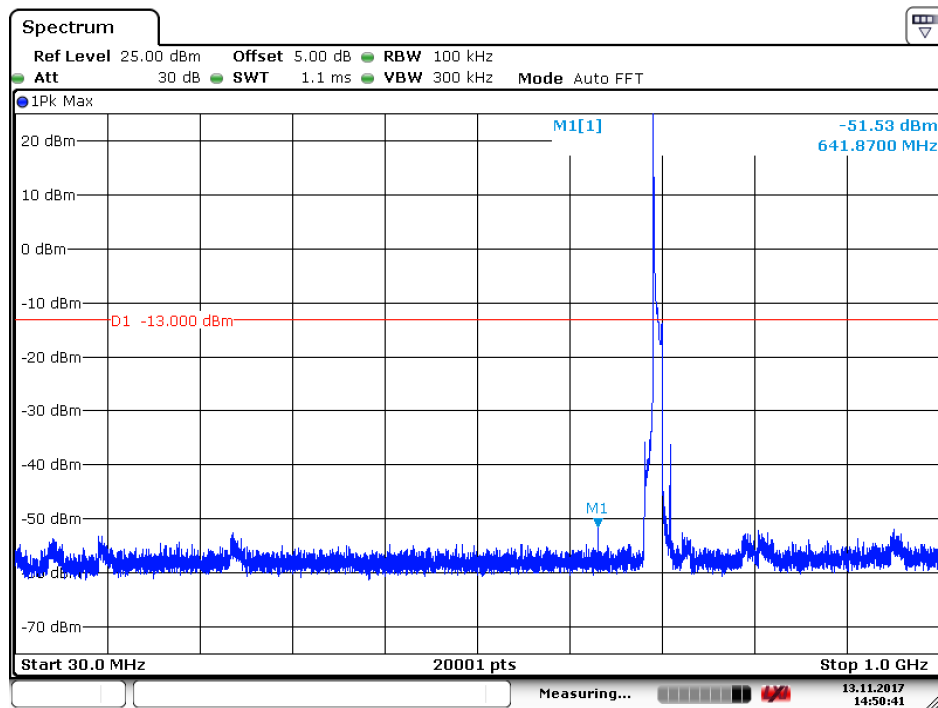
Date: 13.NOV.2017 14:54:52



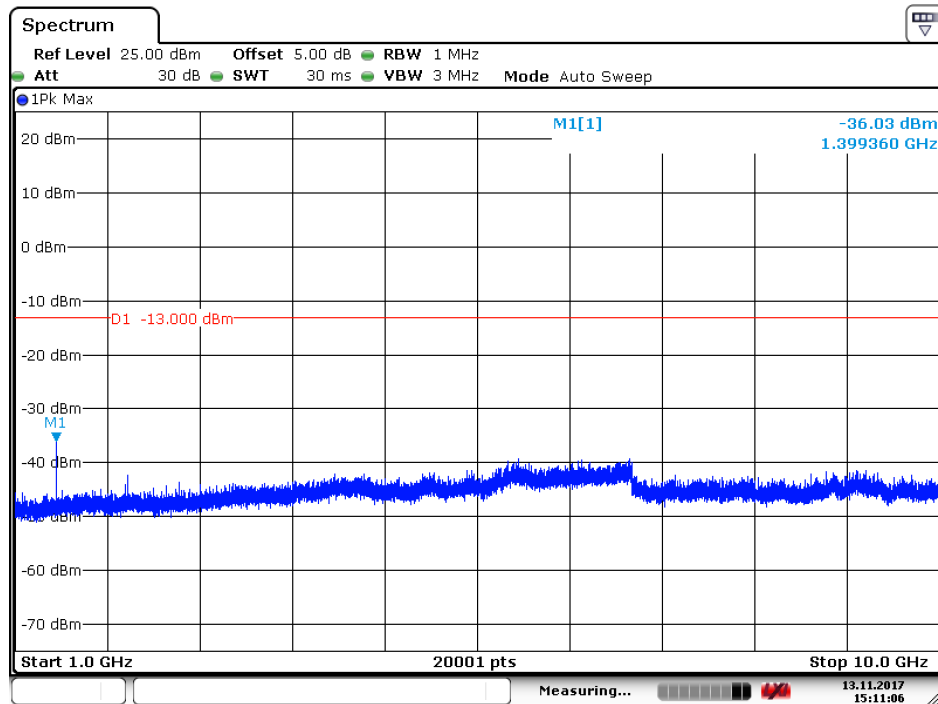
Date: 13.NOV.2017 14:57:19

6.1.1.2 Test Mode = LTE / TM2 15MHz RB1#0

6.1.1.2.1 Test Channel = LCH

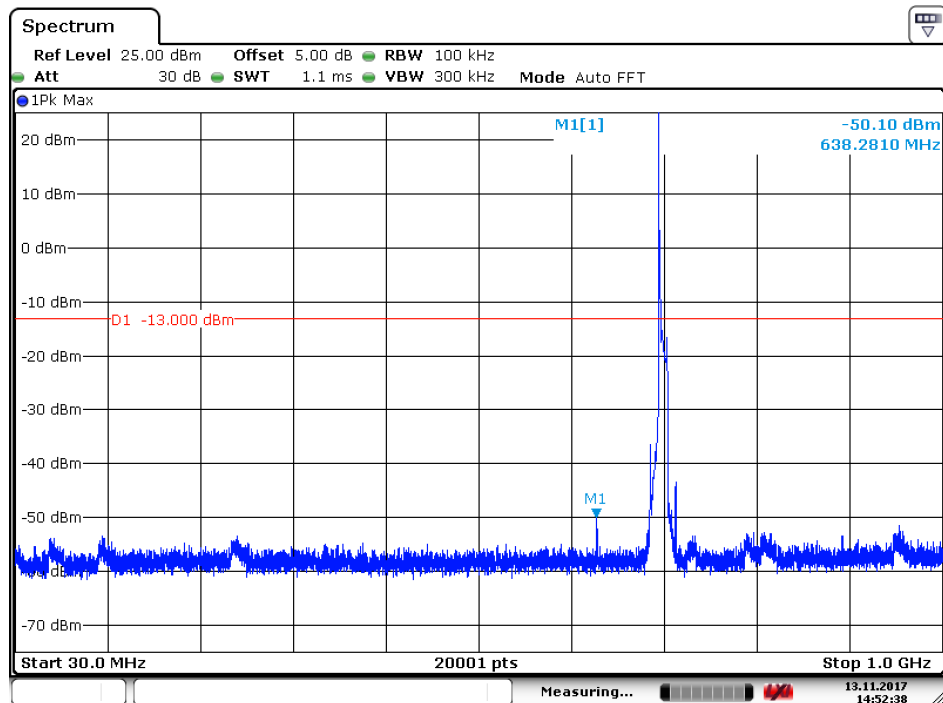


Date: 13.NOV.2017 14:50:41

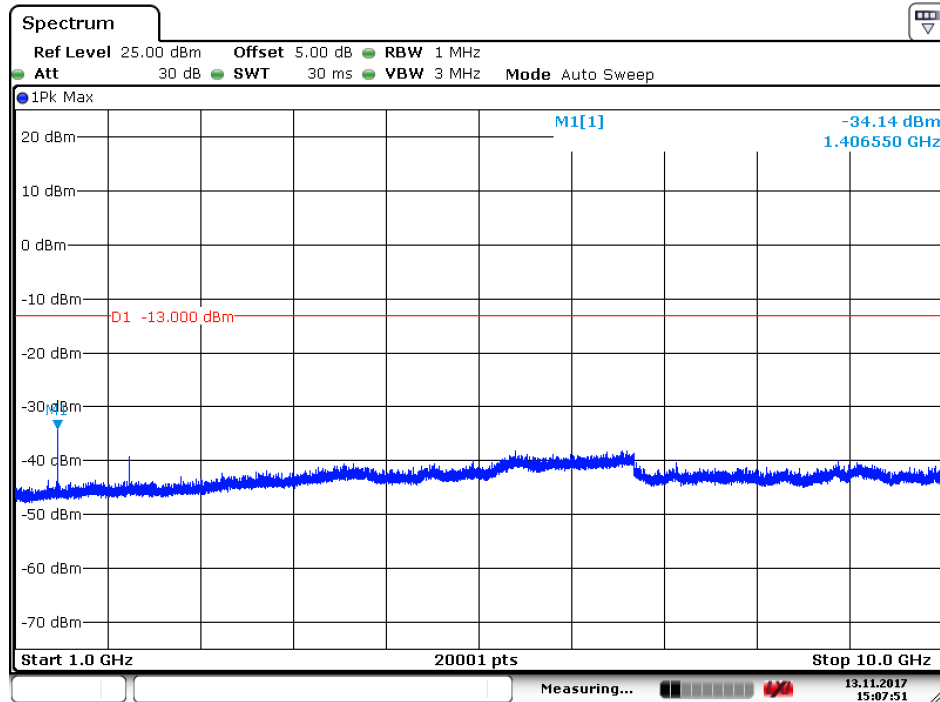


Date: 13.NOV.2017 15:11:06

6.1.1.2.2 Test Channel = MCH

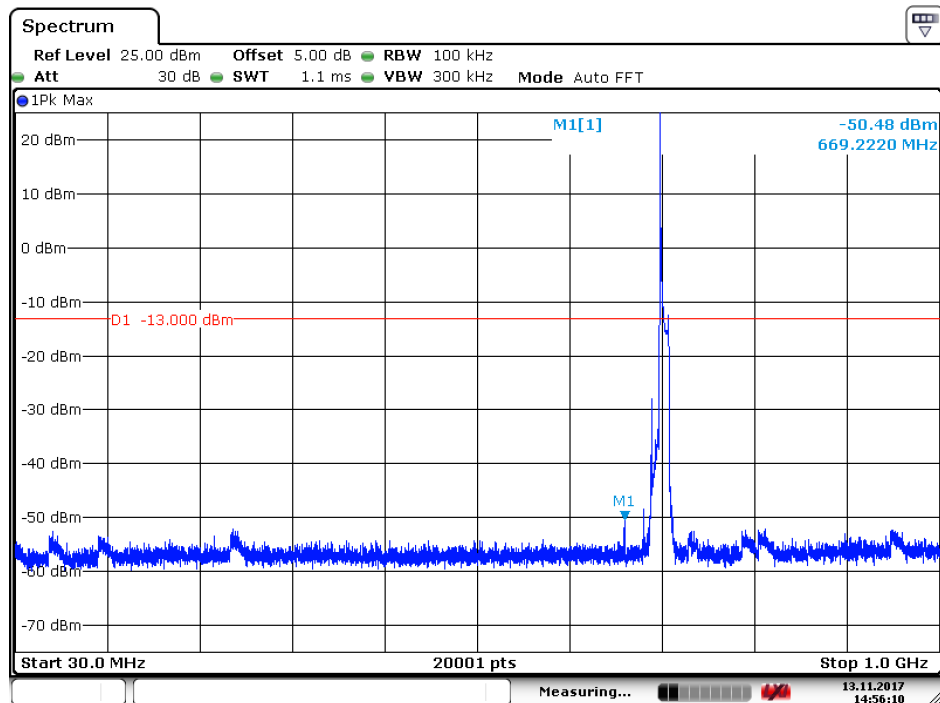


Date: 13.NOV.2017 14:52:38



Date: 13.NOV.2017 15:07:52

6.1.1.2.3 Test Channel = HCH



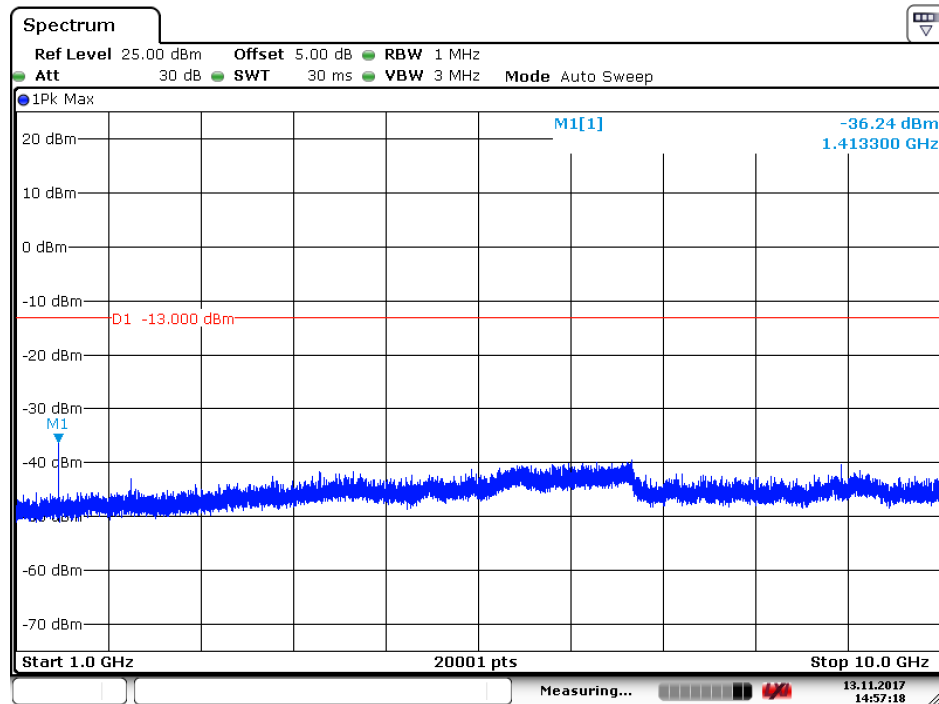
Date: 13.NOV.2017 14:56:11



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM171001122301

Page: 74 of 80



Date: 13.NOV.2017 14:57:19



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band12

7.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

Diversity antenna

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1243.000	-66.46	-13.00	-53.46	Vertical
2248.000	-59.31	-13.00	-46.31	Vertical
5340.000	-67.12	-13.00	-54.12	Vertical
1254.000	-67.47	-13.00	-54.47	Horizontal
2752.000	-57.51	-13.00	-44.51	Horizontal
6120.000	-65.74	-13.00	-52.74	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1276.000	-66.30	-13.00	-53.30	Vertical
2688.000	-57.50	-13.00	-44.50	Vertical
5535.000	-66.75	-13.00	-53.75	Vertical
1100.000	-66.78	-13.00	-53.78	Horizontal
3585.000	-68.79	-13.00	-55.79	Horizontal
5340.000	-67.28	-13.00	-54.28	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1650.000	-65.20	-13.00	-52.20	Vertical
3585.000	-68.82	-13.00	-55.82	Vertical
6705.000	-65.58	-13.00	-52.58	Vertical
1474.000	-66.14	-13.00	-53.14	Horizontal
4950.000	-66.71	-13.00	-53.71	Horizontal
7875.000	-64.58	-13.00	-51.58	Horizontal

Main antenna

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1407.000	-61.82	-13.00	-48.82	Vertical
2984.000	-56.85	-13.00	-43.85	Vertical
4950.000	-66.75	-13.00	-53.75	Vertical
1407.000	-64.14	-13.00	-51.14	Horizontal
2816.000	-57.15	-13.00	-44.15	Horizontal
4657.500	-67.41	-13.00	-54.41	Horizontal



7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1416.000	-58.11	-13.00	-45.11	Vertical
2200.000	-59.27	-13.00	-46.27	Vertical
5535.000	-66.81	-13.00	-53.81	Vertical
1416.000	-64.99	-13.00	-51.99	Horizontal
2808.000	-57.15	-13.00	-44.15	Horizontal
4950.000	-66.71	-13.00	-53.71	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1422.150	-60.66	-13.00	-47.66	Vertical
2200.000	-59.25	-13.00	-46.25	Vertical
4657.500	-67.36	-13.00	-54.36	Vertical
1422.150	-64.74	-13.00	-51.74	Horizontal
2296.000	-59.52	-13.00	-46.52	Horizontal
4657.500	-67.40	-13.00	-54.40	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band12	LTE/TM1 10MHz	LCH	TN	VL	-2.60	-0.00369	PASS
				VN	1.40	0.00199	PASS
				VH	-5.83	-0.00828	PASS
		MCH	TN	VL	-4.56	-0.00645	PASS
				VN	-2.89	-0.00408	PASS
				VH	1.32	0.00187	PASS
		HCH	TN	VL	-5.30	-0.00745	PASS
				VN	-4.94	-0.00695	PASS
				VH	-1.89	-0.00266	PASS
	LTE/TM2 10MHz	LCH	TN	VL	-4.33	-0.00615	PASS
				VN	-5.33	-0.00757	PASS
				VH	-4.10	-0.00582	PASS
		MCH	TN	VL	1.28	0.00181	PASS
				VN	-3.59	-0.00507	PASS
				VH	1.67	0.00236	PASS
		HCH	TN	VL	-2.91	-0.00409	PASS
				VN	-6.16	-0.00866	PASS
				VH	5.14	0.00723	PASS
	LTE/TM3 10MHz	LCH	TN	VL	4.23	0.00601	PASS
				VN	2.14	0.00304	PASS
				VH	-3.11	-0.00442	PASS
		MCH	TN	VL	-1.09	-0.00154	PASS
				VN	3.24	0.00458	PASS
				VH	5.43	0.00767	PASS
		HCH	TN	VL	-0.76	-0.00107	PASS
				VN	-4.22	-0.00594	PASS
				VH	4.90	0.00689	PASS



8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band12	LTE/TM1 10MHz	LCH	VN	-30	-4.39	-0.00624	PASS
				-20	-2.30	-0.00327	PASS
				-10	-2.47	-0.00351	PASS
				0	1.26	0.00179	PASS
				10	1.23	0.00175	PASS
				20	0.56	0.00080	PASS
				30	-0.38	-0.00054	PASS
				40	-2.76	-0.00392	PASS
				50	-6.32	-0.00898	PASS
		MCH	VN	-30	-5.40	-0.00763	PASS
				-20	-5.29	-0.00748	PASS
				-10	-3.34	-0.00472	PASS
				0	-1.50	-0.00212	PASS
				10	-2.23	-0.00315	PASS
				20	-0.84	-0.00119	PASS
				30	-2.09	-0.00295	PASS
				40	-4.84	-0.00684	PASS
				50	-5.22	-0.00738	PASS
		HCH	VN	-30	-2.66	-0.00374	PASS
				-20	-3.25	-0.00457	PASS
				-10	1.69	0.00238	PASS
				0	-2.45	-0.00345	PASS
				10	2.34	0.00329	PASS
				20	-0.38	-0.00053	PASS
				30	-2.89	-0.00406	PASS
				40	-4.36	-0.00613	PASS
				50	-3.83	-0.00539	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM171001122301

Page: 79 of 80

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band12	LTE/TM2 10MHz	LCH	VN	-30	-3.63	-0.00516	PASS
				-20	-2.42	-0.00344	PASS
				-10	1.25	0.00178	PASS
				0	2.22	0.00315	PASS
				10	1.73	0.00246	PASS
				20	-2.83	-0.00402	PASS
				30	-3.33	-0.00473	PASS
				40	2.25	0.00320	PASS
				50	-4.38	-0.00622	PASS
		MCH	VN	-30	-3.39	-0.00479	PASS
				-20	-2.66	-0.00376	PASS
				-10	-1.10	-0.00155	PASS
				0	-1.87	-0.00264	PASS
				10	-0.29	-0.00041	PASS
				20	1.27	0.00180	PASS
				30	-2.23	-0.00315	PASS
				40	-6.48	-0.00916	PASS
				50	-5.45	-0.00770	PASS
		HCH	VN	-30	-3.83	-0.00539	PASS
				-20	-4.69	-0.00660	PASS
				-10	2.59	0.00364	PASS
				0	-3.49	-0.00491	PASS
				10	2.70	0.00380	PASS
				20	-1.29	-0.00181	PASS
				30	-3.30	-0.00464	PASS
				40	-4.79	-0.00674	PASS
				50	-4.34	-0.00610	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM171001122301

Page: 80 of 80

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband12	LTE/TM3 10MHz	LCH	VN	-30	1.65	0.00234	PASS
				-20	-6.60	-0.00938	PASS
				-10	0.38	0.00054	PASS
				0	1.69	0.00240	PASS
				10	1.86	0.00264	PASS
				20	0.54	0.00077	PASS
				30	-2.61	-0.00371	PASS
				40	-2.69	-0.00382	PASS
				50	3.52	0.00500	PASS
		MCH	VN	-30	-5.34	-0.00755	PASS
				-20	-5.33	-0.00753	PASS
				-10	-7.24	-0.01023	PASS
				0	-5.13	-0.00725	PASS
				10	-2.54	-0.00359	PASS
				20	-6.06	-0.00857	PASS
				30	-2.26	-0.00319	PASS
				40	-4.40	-0.00622	PASS
				50	-5.47	-0.00773	PASS
		HCH	VN	-30	2.34	0.00329	PASS
				-20	-1.83	-0.00257	PASS
				-10	1.80	0.00253	PASS
				0	-2.43	-0.00342	PASS
				10	1.60	0.00225	PASS
				20	-5.57	-0.00783	PASS
				30	3.66	0.00515	PASS
				40	-5.40	-0.00759	PASS
				50	-6.90	-0.00970	PASS

The End