



Appendix B

E-UTRA Band26 (824-849)



CONTENT

	Page
1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	3
2 PEAK-TO-AVERAGE RATIO	18
2.1 FOR LTE	19
2.1.1 Test Band = LTE band26.....	19
3 MODULATION CHARACTERISTICS	24
3.1 FOR LTE	24
3.1.1 Test Band = LTE band26.....	24
4 BANDWIDTH	26
4.1 FOR LTE	28
4.1.1 Test Band = LTE band26.....	28
5 BAND EDGES COMPLIANCE	51
5.1 FOR LTE	51
5.1.1 Test Band = LTE band26.....	51
6 SPURIOUS EMISSION AT ANTENNA TERMINAL.....	82
6.1 FOR LTE	82
7 FIELD STRENGTH OF SPURIOUS RADIATION	86
7.1 FOR LTE	86
7.1.1 Test Band = LTE band26.....	86
8 FREQUENCY STABILITY	89
8.1 FREQUENCY ERROR VS. VOLTAGE	89
8.2 FREQUENCY ERROR VS. TEMPERATURE	90



1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM1	1.4M	LCH	RB1#0	23.01	20.92	38.45	PASS
				RB1#2	23.05	20.96	38.45	PASS
				RB1#5	23.07	20.98	38.45	PASS
				RB3#0	22.94	20.85	38.45	PASS
				RB3#2	22.95	20.86	38.45	PASS
				RB3#3	22.99	20.9	38.45	PASS
				RB6#0	21.78	19.69	38.45	PASS
			MCH	RB1#0	22.96	20.87	38.45	PASS
				RB1#2	22.63	20.54	38.45	PASS
				RB1#5	22.93	20.84	38.45	PASS
				RB3#0	22.81	20.72	38.45	PASS
				RB3#2	22.52	20.43	38.45	PASS
				RB3#3	22.85	20.76	38.45	PASS
				RB6#0	21.92	19.83	38.45	PASS
			HCH	RB1#0	22.92	20.83	38.45	PASS
				RB1#2	22.51	20.42	38.45	PASS
				RB1#5	23.01	20.92	38.45	PASS
				RB3#0	22.82	20.73	38.45	PASS
				RB3#2	22.77	20.68	38.45	PASS
				RB3#3	22.88	20.79	38.45	PASS
				RB6#0	21.67	19.58	38.45	PASS



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

Report No.: SZEM180100021803

Page: 4 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM2	1.4M	LCH	RB1#0	21.71	19.62	38.45	PASS
				RB1#2	21.72	19.63	38.45	PASS
				RB1#5	21.78	19.69	38.45	PASS
				RB3#0	21.83	19.74	38.45	PASS
				RB3#2	21.72	19.63	38.45	PASS
				RB3#3	21.83	19.74	38.45	PASS
				RB6#0	20.91	18.82	38.45	PASS
			MCH	RB1#0	21.91	19.82	38.45	PASS
				RB1#2	21.66	19.57	38.45	PASS
				RB1#5	21.89	19.8	38.45	PASS
				RB3#0	21.93	19.84	38.45	PASS
				RB3#2	22.07	19.98	38.45	PASS
				RB3#3	21.92	19.83	38.45	PASS
				RB6#0	20.72	18.63	38.45	PASS
			HCH	RB1#0	21.82	19.73	38.45	PASS
				RB1#2	21.44	19.35	38.45	PASS
				RB1#5	21.82	19.73	38.45	PASS
				RB3#0	21.84	19.75	38.45	PASS
				RB3#2	21.81	19.72	38.45	PASS
				RB3#3	21.93	19.84	38.45	PASS
				RB6#0	20.87	18.78	38.45	PASS



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

Report No.: SZEM180100021803

Page: 5 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM3	1.4M	LCH	RB1#0	20.96	18.87	38.45	PASS
				RB1#2	20.78	18.69	38.45	PASS
				RB1#5	21.05	18.96	38.45	PASS
				RB3#0	20.86	18.77	38.45	PASS
				RB3#2	20.97	18.88	38.45	PASS
				RB3#3	20.71	18.62	38.45	PASS
				RB6#0	19.62	17.53	38.45	PASS
			MCH	RB1#0	20.97	18.88	38.45	PASS
				RB1#2	20.92	18.83	38.45	PASS
				RB1#5	21.27	19.18	38.45	PASS
				RB3#0	20.95	18.86	38.45	PASS
				RB3#2	20.91	18.82	38.45	PASS
				RB3#3	20.93	18.84	38.45	PASS
				RB6#0	19.95	17.86	38.45	PASS
			HCH	RB1#0	20.91	18.82	38.45	PASS
				RB1#2	20.89	18.8	38.45	PASS
				RB1#5	21.06	18.97	38.45	PASS
				RB3#0	20.92	18.83	38.45	PASS
				RB3#2	20.88	18.79	38.45	PASS
				RB3#3	21.13	19.04	38.45	PASS
				RB6#0	19.94	17.85	38.45	PASS



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

Report No.: SZEM180100021803

Page: 6 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM1	3M	LCH	RB1#0	22.87	20.78	38.45	PASS
				RB1#7	22.89	20.8	38.45	PASS
				RB1#14	22.88	20.79	38.45	PASS
				RB8#0	21.94	19.85	38.45	PASS
				RB8#4	21.91	19.82	38.45	PASS
				RB8#7	21.88	19.79	38.45	PASS
				RB15#0	21.99	19.9	38.45	PASS
			MCH	RB1#0	22.88	20.79	38.45	PASS
				RB1#7	22.83	20.74	38.45	PASS
				RB1#14	22.84	20.75	38.45	PASS
				RB8#0	21.95	19.86	38.45	PASS
				RB8#4	21.74	19.65	38.45	PASS
				RB8#7	21.87	19.78	38.45	PASS
				RB15#0	21.85	19.76	38.45	PASS
			HCH	RB1#0	22.98	20.89	38.45	PASS
				RB1#7	22.98	20.89	38.45	PASS
				RB1#14	22.97	20.88	38.45	PASS
				RB8#0	21.92	19.83	38.45	PASS
				RB8#4	21.93	19.84	38.45	PASS
				RB8#7	21.76	19.67	38.45	PASS
				RB15#0	21.89	19.8	38.45	PASS



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

Report No.: SZEM180100021803

Page: 7 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM2	3M	LCH	RB1#0	22.34	20.25	38.45	PASS
				RB1#7	22.29	20.2	38.45	PASS
				RB1#14	22.24	20.15	38.45	PASS
				RB8#0	20.88	18.79	38.45	PASS
				RB8#4	20.85	18.76	38.45	PASS
				RB8#7	20.87	18.78	38.45	PASS
				RB15#0	20.91	18.82	38.45	PASS
			MCH	RB1#0	22.32	20.23	38.45	PASS
				RB1#7	22.23	20.14	38.45	PASS
				RB1#14	22.29	20.2	38.45	PASS
				RB8#0	20.78	18.69	38.45	PASS
				RB8#4	20.83	18.74	38.45	PASS
				RB8#7	20.81	18.72	38.45	PASS
				RB15#0	20.82	18.73	38.45	PASS
			HCH	RB1#0	21.78	19.69	38.45	PASS
				RB1#7	21.79	19.7	38.45	PASS
				RB1#14	21.77	19.68	38.45	PASS
				RB8#0	20.81	18.72	38.45	PASS
				RB8#4	20.77	18.68	38.45	PASS
				RB8#7	20.75	18.66	38.45	PASS
				RB15#0	20.89	18.8	38.45	PASS



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

Report No.: SZEM180100021803

Page: 8 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM3	3M	LCH	RB1#0	21.34	19.25	38.45	PASS
				RB1#7	21.30	19.21	38.45	PASS
				RB1#14	20.30	18.21	38.45	PASS
				RB8#0	20.14	18.05	38.45	PASS
				RB8#4	20.14	18.05	38.45	PASS
				RB8#7	20.11	18.02	38.45	PASS
				RB15#0	20.18	18.09	38.45	PASS
			MCH	RB1#0	21.23	19.14	38.45	PASS
				RB1#7	20.41	18.32	38.45	PASS
				RB1#14	21.32	19.23	38.45	PASS
				RB8#0	20.08	17.99	38.45	PASS
				RB8#4	20.02	17.93	38.45	PASS
				RB8#7	20.04	17.95	38.45	PASS
				RB15#0	20.10	18.01	38.45	PASS
			HCH	RB1#0	21.23	19.14	38.45	PASS
				RB1#7	20.71	18.62	38.45	PASS
				RB1#14	21.23	19.14	38.45	PASS
				RB8#0	19.98	17.89	38.45	PASS
				RB8#4	20.00	17.91	38.45	PASS
				RB8#7	19.94	17.85	38.45	PASS
				RB15#0	20.00	17.91	38.45	PASS



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

Report No.: SZEM180100021803

Page: 9 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM1	5M	LCH	RB1#0	23.05	20.96	38.45	PASS
				RB1#13	23.01	20.92	38.45	PASS
				RB1#24	22.99	20.9	38.45	PASS
				RB12#0	21.94	19.85	38.45	PASS
				RB12#6	21.93	19.84	38.45	PASS
				RB12#13	21.99	19.9	38.45	PASS
				RB25#0	21.91	19.82	38.45	PASS
			MCH	RB1#0	23.01	20.92	38.45	PASS
				RB1#13	22.94	20.85	38.45	PASS
				RB1#24	22.92	20.83	38.45	PASS
				RB12#0	22.02	19.93	38.45	PASS
				RB12#6	21.88	19.79	38.45	PASS
				RB12#13	21.93	19.84	38.45	PASS
				RB25#0	21.85	19.76	38.45	PASS
			HCH	RB1#0	22.94	20.85	38.45	PASS
				RB1#13	22.93	20.84	38.45	PASS
				RB1#24	22.89	20.8	38.45	PASS
				RB12#0	21.96	19.87	38.45	PASS
				RB12#6	21.84	19.75	38.45	PASS
				RB12#13	21.94	19.85	38.45	PASS
				RB25#0	21.93	19.84	38.45	PASS



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

Report No.: SZEM180100021803

Page: 10 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM2	5M	LCH	RB1#0	21.75	19.66	38.45	PASS
				RB1#13	21.67	19.58	38.45	PASS
				RB1#24	21.62	19.53	38.45	PASS
				RB12#0	20.94	18.85	38.45	PASS
				RB12#6	20.86	18.77	38.45	PASS
				RB12#13	20.87	18.78	38.45	PASS
				RB25#0	20.82	18.73	38.45	PASS
			MCH	RB1#0	22.02	19.93	38.45	PASS
				RB1#13	22.04	19.95	38.45	PASS
				RB1#24	21.97	19.88	38.45	PASS
				RB12#0	20.95	18.86	38.45	PASS
				RB12#6	20.88	18.79	38.45	PASS
				RB12#13	20.88	18.79	38.45	PASS
				RB25#0	20.85	18.76	38.45	PASS
			HCH	RB1#0	21.98	19.89	38.45	PASS
				RB1#13	21.97	19.88	38.45	PASS
				RB1#24	21.93	19.84	38.45	PASS
				RB12#0	20.93	18.84	38.45	PASS
				RB12#6	20.86	18.77	38.45	PASS
				RB12#13	20.87	18.78	38.45	PASS
				RB25#0	20.88	18.79	38.45	PASS



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

Report No.: SZEM180100021803

Page: 11 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM3	5M	LCH	RB1#0	21.36	19.27	38.45	PASS
				RB1#13	21.42	19.33	38.45	PASS
				RB1#24	21.32	19.23	38.45	PASS
				RB12#0	20.22	18.13	38.45	PASS
				RB12#6	20.11	18.02	38.45	PASS
				RB12#13	20.19	18.1	38.45	PASS
				RB25#0	20.14	18.05	38.45	PASS
			MCH	RB1#0	21.22	19.13	38.45	PASS
				RB1#13	21.3	19.21	38.45	PASS
				RB1#24	21.29	19.2	38.45	PASS
				RB12#0	20.13	18.04	38.45	PASS
				RB12#6	20.12	18.03	38.45	PASS
				RB12#13	20.16	18.07	38.45	PASS
				RB25#0	20.09	18	38.45	PASS
			HCH	RB1#0	21.23	19.14	38.45	PASS
				RB1#13	21.22	19.13	38.45	PASS
				RB1#24	21.18	19.09	38.45	PASS
				RB12#0	20.13	18.04	38.45	PASS
				RB12#6	19.98	17.89	38.45	PASS
				RB12#13	20.11	18.02	38.45	PASS
				RB25#0	20.03	17.94	38.45	PASS



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

Report No.: SZEM180100021803

Page: 12 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM1	10M	LCH	RB1#0	23.01	20.92	38.45	PASS
				RB1#25	22.86	20.77	38.45	PASS
				RB1#49	22.93	20.84	38.45	PASS
				RB25#0	21.97	19.88	38.45	PASS
				RB25#13	22.01	19.92	38.45	PASS
				RB25#25	21.94	19.85	38.45	PASS
				RB50#0	21.96	19.87	38.45	PASS
			MCH	RB1#0	22.92	20.83	38.45	PASS
				RB1#25	22.57	20.48	38.45	PASS
				RB1#49	22.83	20.74	38.45	PASS
				RB25#0	21.98	19.89	38.45	PASS
				RB25#13	21.89	19.8	38.45	PASS
				RB25#25	21.96	19.87	38.45	PASS
				RB50#0	21.96	19.87	38.45	PASS
			HCH	RB1#0	23.04	20.95	38.45	PASS
				RB1#25	22.75	20.66	38.45	PASS
				RB1#49	22.93	20.84	38.45	PASS
				RB25#0	21.95	19.86	38.45	PASS
				RB25#13	21.9	19.81	38.45	PASS
				RB25#25	21.92	19.83	38.45	PASS
				RB50#0	21.91	19.82	38.45	PASS



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

Report No.: SZEM180100021803

Page: 13 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM2	10M	LCH	RB1#0	21.98	19.89	38.45	PASS
				RB1#25	21.67	19.58	38.45	PASS
				RB1#49	21.87	19.78	38.45	PASS
				RB25#0	20.98	18.89	38.45	PASS
				RB25#13	20.95	18.86	38.45	PASS
				RB25#25	20.93	18.84	38.45	PASS
				RB50#0	20.88	18.79	38.45	PASS
			MCH	RB1#0	21.97	19.88	38.45	PASS
				RB1#25	21.32	19.23	38.45	PASS
				RB1#49	21.82	19.73	38.45	PASS
				RB25#0	20.89	18.8	38.45	PASS
				RB25#13	20.87	18.78	38.45	PASS
				RB25#25	20.83	18.74	38.45	PASS
				RB50#0	20.81	18.72	38.45	PASS
			HCH	RB1#0	22.02	19.93	38.45	PASS
				RB1#25	21.92	19.83	38.45	PASS
				RB1#49	21.89	19.8	38.45	PASS
				RB25#0	20.91	18.82	38.45	PASS
				RB25#13	20.88	18.79	38.45	PASS
				RB25#25	20.86	18.77	38.45	PASS
				RB50#0	20.87	18.78	38.45	PASS



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

Report No.: SZEM180100021803

Page: 14 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM3	10M	LCH	RB1#0	21.58	19.49	38.45	PASS
				RB1#25	21.40	19.31	38.45	PASS
				RB1#49	20.88	18.79	38.45	PASS
				RB25#0	20.1	18.01	38.45	PASS
				RB25#13	20.19	18.1	38.45	PASS
				RB25#25	20.15	18.06	38.45	PASS
				RB50#0	20.07	17.98	38.45	PASS
			MCH	RB1#0	21.38	19.29	38.45	PASS
				RB1#25	21.50	19.41	38.45	PASS
				RB1#49	21.50	19.41	38.45	PASS
				RB25#0	20.00	17.91	38.45	PASS
				RB25#13	20.09	18	38.45	PASS
				RB25#25	20.06	17.97	38.45	PASS
				RB50#0	20.08	17.99	38.45	PASS
			HCH	RB1#0	21.02	18.93	38.45	PASS
				RB1#25	21.16	19.07	38.45	PASS
				RB1#49	21.34	19.25	38.45	PASS
				RB25#0	20.01	17.92	38.45	PASS
				RB25#13	19.97	17.88	38.45	PASS
				RB25#25	20.11	18.02	38.45	PASS
				RB50#0	20.14	18.05	38.45	PASS



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

Report No.: SZEM180100021803

Page: 15 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM1	15M	LCH	RB1#0	22.91	20.82	38.45	PASS
				RB1#25	22.95	20.86	38.45	PASS
				RB1#49	22.76	20.67	38.45	PASS
				RB25#0	22.02	19.93	38.45	PASS
				RB25#13	21.97	19.88	38.45	PASS
				RB25#25	21.96	19.87	38.45	PASS
				RB50#0	21.95	19.86	38.45	PASS
			MCH	RB1#0	22.84	20.75	38.45	PASS
				RB1#25	22.84	20.75	38.45	PASS
				RB1#49	22.73	20.64	38.45	PASS
				RB25#0	22.04	19.95	38.45	PASS
				RB25#13	21.91	19.82	38.45	PASS
				RB25#25	21.91	19.82	38.45	PASS
				RB50#0	21.94	19.85	38.45	PASS
			HCH	RB1#0	22.87	20.78	38.45	PASS
				RB1#25	22.85	20.76	38.45	PASS
				RB1#49	22.75	20.66	38.45	PASS
				RB25#0	21.98	19.89	38.45	PASS
				RB25#13	21.88	19.79	38.45	PASS
				RB25#25	21.94	19.85	38.45	PASS
				RB50#0	21.93	19.84	38.45	PASS



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

Report No.: SZEM180100021803

Page: 16 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM2	15M	LCH	RB1#0	21.86	19.77	38.45	PASS
				RB1#25	21.89	19.8	38.45	PASS
				RB1#49	21.93	19.84	38.45	PASS
				RB25#0	20.89	18.8	38.45	PASS
				RB25#13	20.97	18.88	38.45	PASS
				RB25#25	20.83	18.74	38.45	PASS
				RB50#0	20.90	18.81	38.45	PASS
			MCH	RB1#0	22.04	19.95	38.45	PASS
				RB1#25	21.98	19.89	38.45	PASS
				RB1#49	21.77	19.68	38.45	PASS
				RB25#0	20.98	18.89	38.45	PASS
				RB25#13	20.94	18.85	38.45	PASS
				RB25#25	20.86	18.77	38.45	PASS
				RB50#0	20.89	18.8	38.45	PASS
			HCH	RB1#0	22.03	19.94	38.45	PASS
				RB1#25	21.94	19.85	38.45	PASS
				RB1#49	21.82	19.73	38.45	PASS
				RB25#0	20.94	18.85	38.45	PASS
				RB25#13	20.84	18.75	38.45	PASS
				RB25#25	20.89	18.8	38.45	PASS
				RB50#0	20.88	18.79	38.45	PASS



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

Report No.: SZEM180100021803

Page: 17 of 92

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26	LTE/TM3	15M	LCH	RB1#0	21.53	19.44	38.45	PASS
				RB1#25	21.12	19.03	38.45	PASS
				RB1#49	20.87	18.78	38.45	PASS
				RB25#0	20.24	18.15	38.45	PASS
				RB25#13	20.17	18.08	38.45	PASS
				RB25#25	20.13	18.04	38.45	PASS
				RB50#0	20.20	18.11	38.45	PASS
			MCH	RB1#0	21.19	19.1	38.45	PASS
				RB1#25	21.26	19.17	38.45	PASS
				RB1#49	21.40	19.31	38.45	PASS
				RB25#0	20.24	18.15	38.45	PASS
				RB25#13	20.20	18.11	38.45	PASS
				RB25#25	20.01	17.92	38.45	PASS
				RB50#0	20.17	18.08	38.45	PASS
			HCH	RB1#0	21.54	19.45	38.45	PASS
				RB1#25	21.15	19.06	38.45	PASS
				RB1#49	21.57	19.48	38.45	PASS
				RB25#0	20.16	18.07	38.45	PASS
				RB25#13	20.12	18.03	38.45	PASS
				RB25#25	20.04	17.95	38.45	PASS
				RB50#0	20.03	17.94	38.45	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 26	TM1/15M	LCH	5.39	13	PASS
		MCH	5.62	13	PASS
		HCH	5.54	13	PASS
	TM2/15M	LCH	6.32	13	PASS
		MCH	6.52	13	PASS
		HCH	6.58	13	PASS
	TM3/15M	LCH	6.14	13	PASS
		MCH	6.26	13	PASS
		HCH	6.23	13	PASS



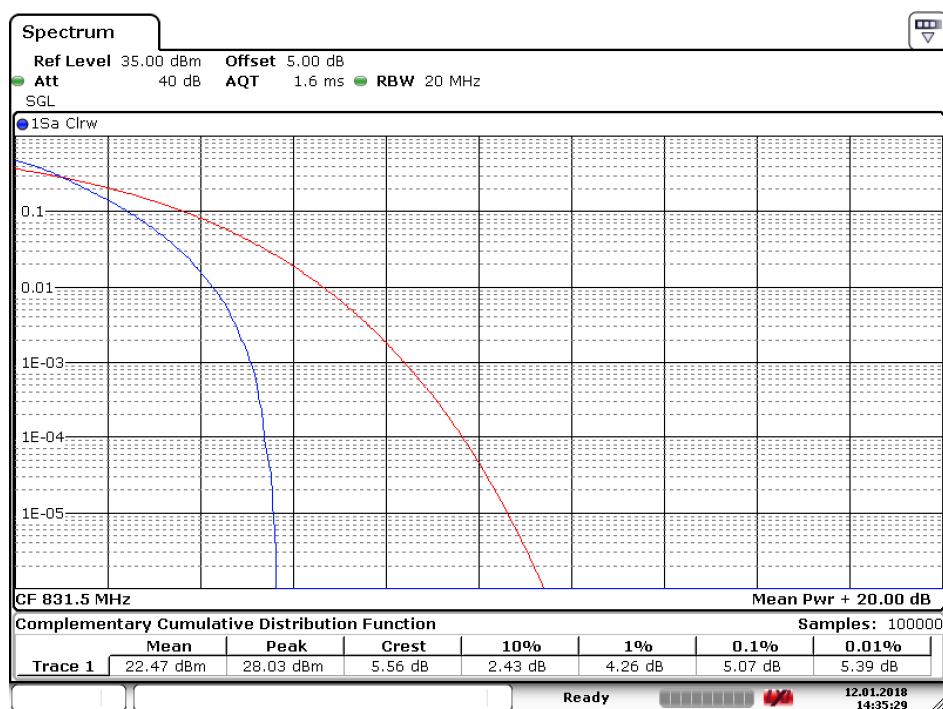
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band26

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=15MHz

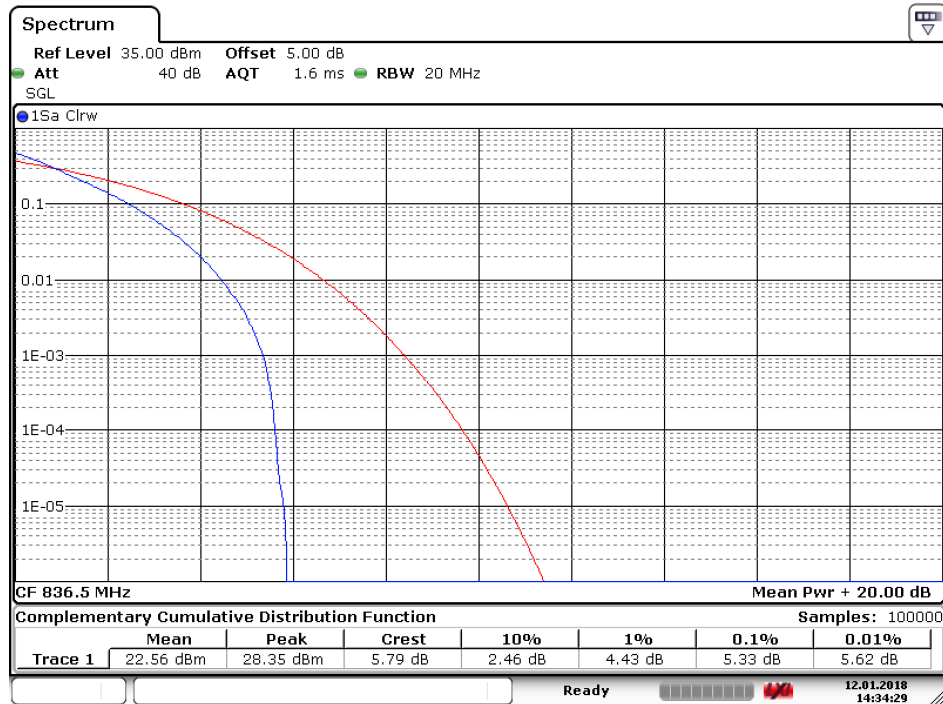
2.1.1.1.1 Test Channel = LCH



Date: 12.JAN.2018 14:35:29

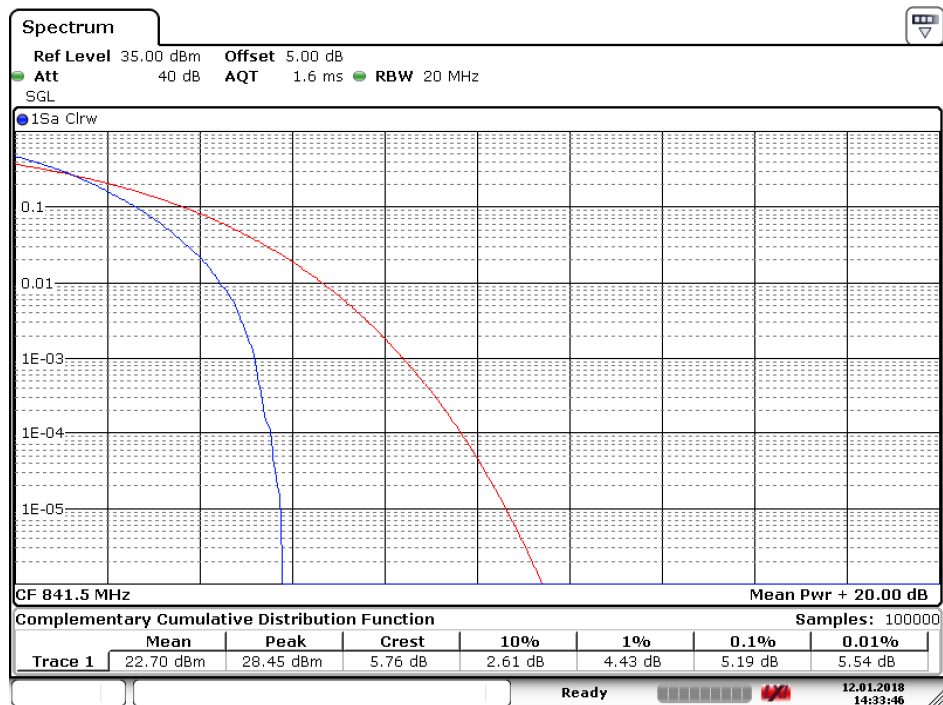


2.1.1.1.2 Test Channel = MCH



Date: 12.JAN.2018 14:34:30

2.1.1.1.3 Test Channel = HCH

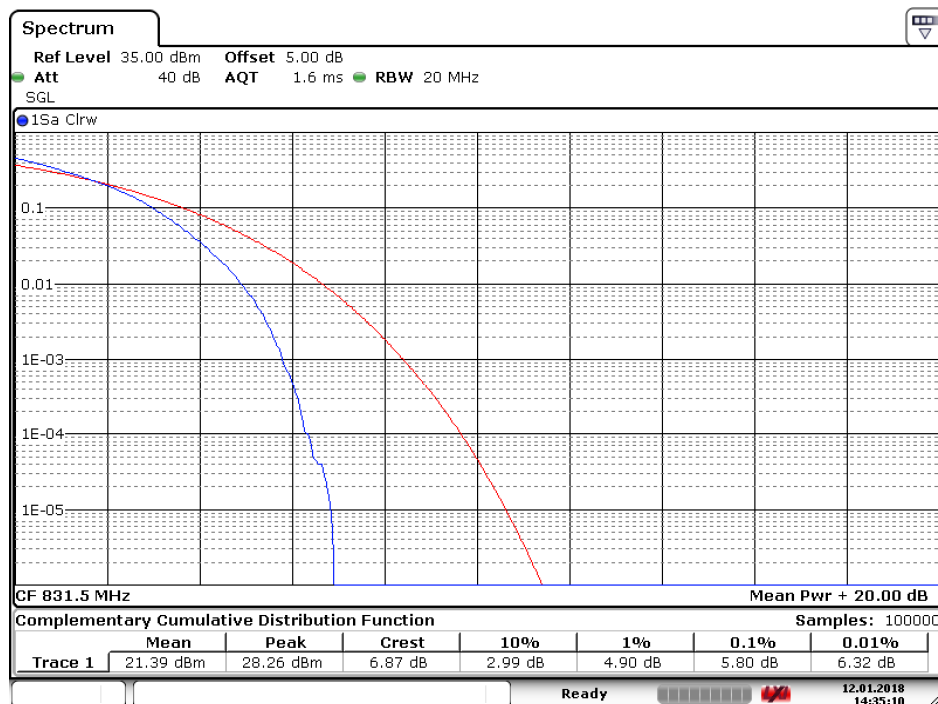


Date: 12.JAN.2018 14:33:46



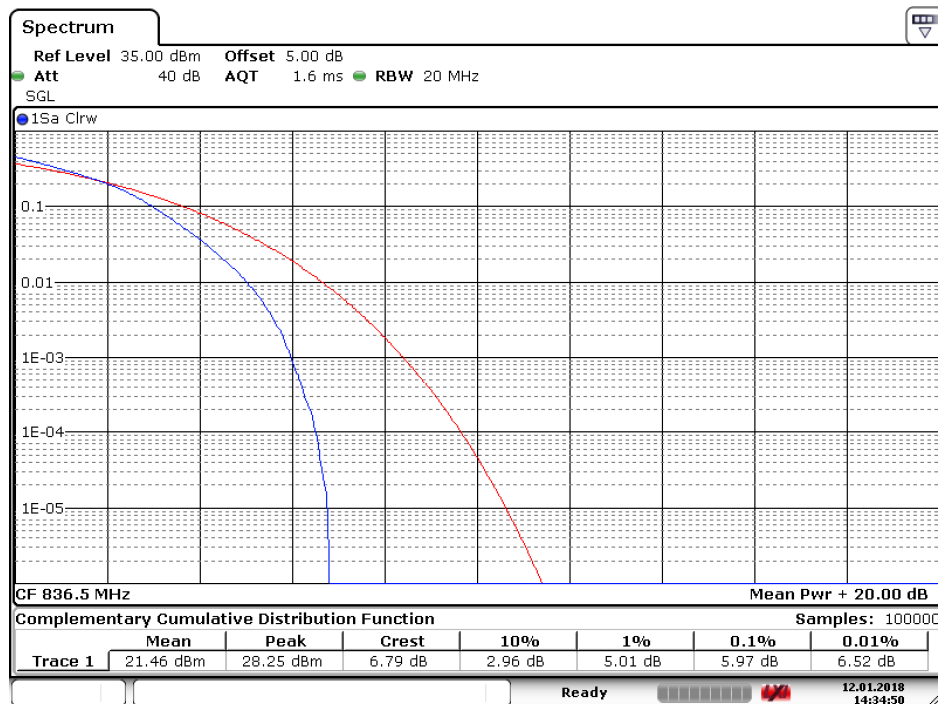
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=15MHz

2.1.1.2.1 Test Channel = LCH



Date: 12.JAN.2018 14:35:11

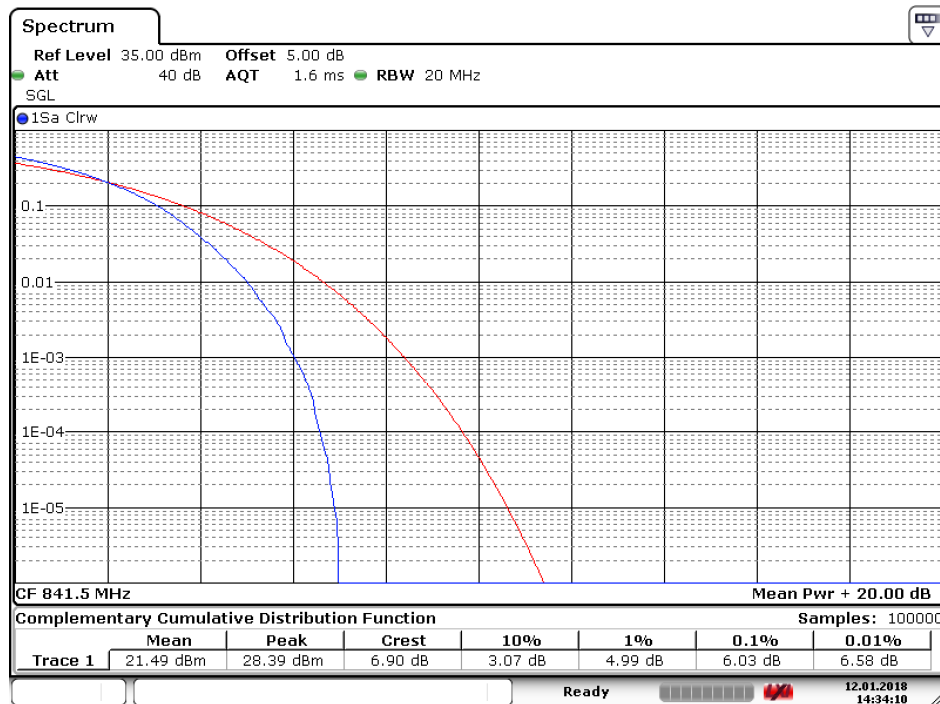
2.1.1.2.2 Test Channel = MCH



Date: 12.JAN.2018 14:34:50



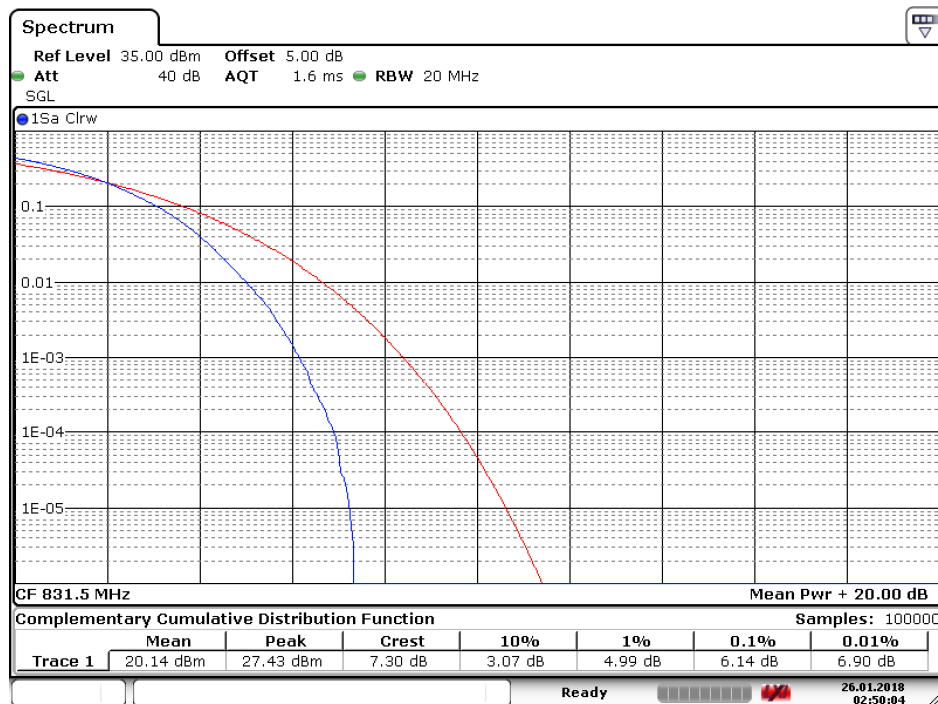
2.1.1.2.3 Test Channel = HCH



Date: 12.JAN.2018 14:34:10

2.1.1.3 Test Mode = LTE/TM3.Bandwidth=15MHz

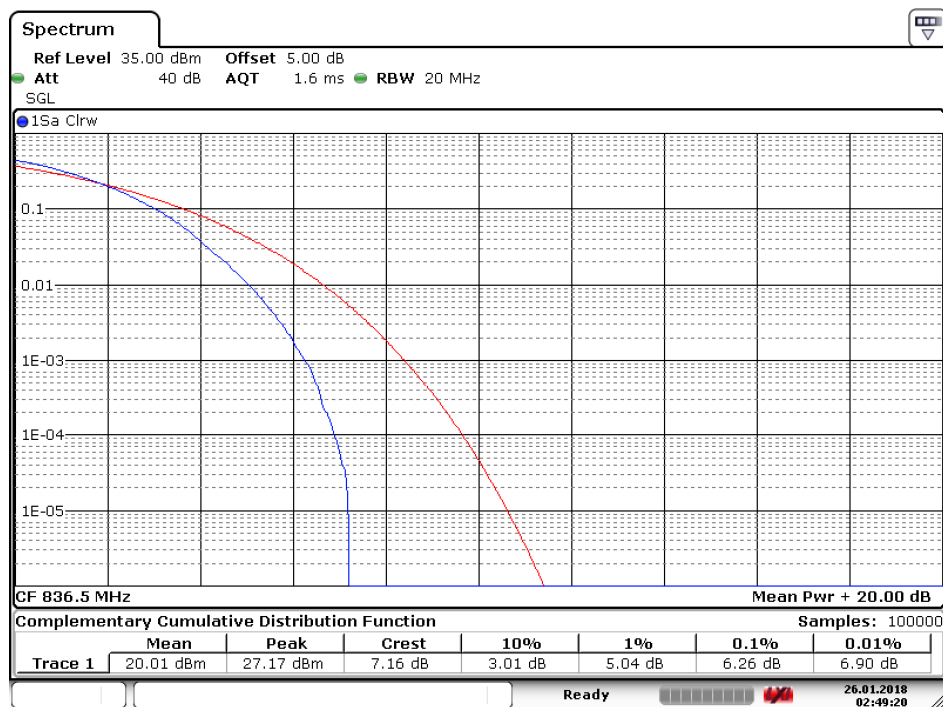
2.1.1.3.1 Test Channel = LCH



Date: 26.JAN.2018 02:50:04

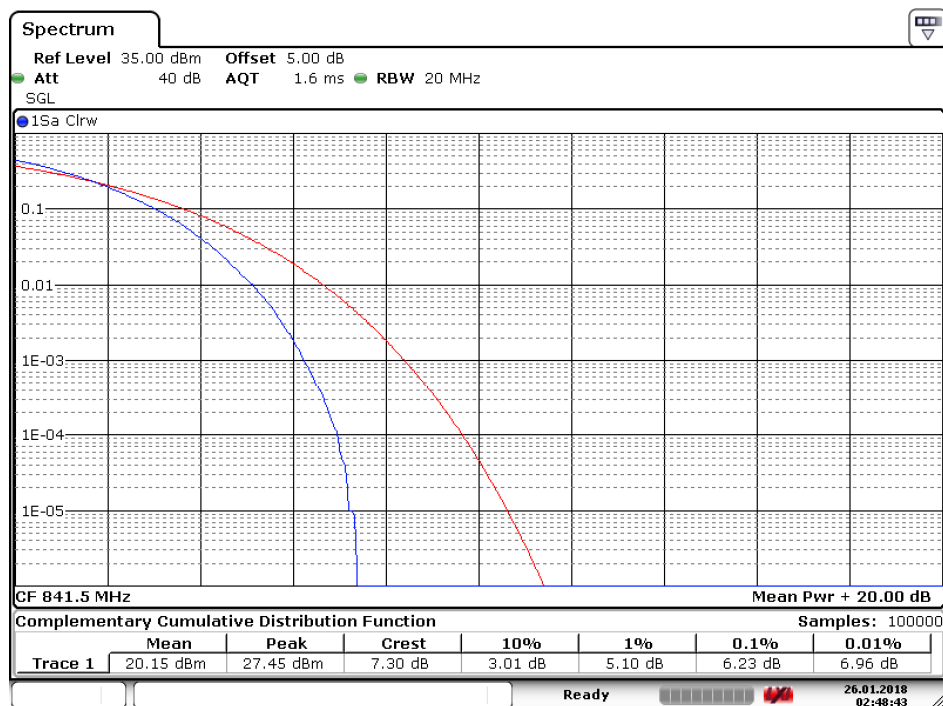


2.1.1.3.2 Test Channel = MCH



Date: 26.JAN.2018 02:49:20

2.1.1.3.3 Test Channel = HCH



Date: 26.JAN.2018 02:48:44

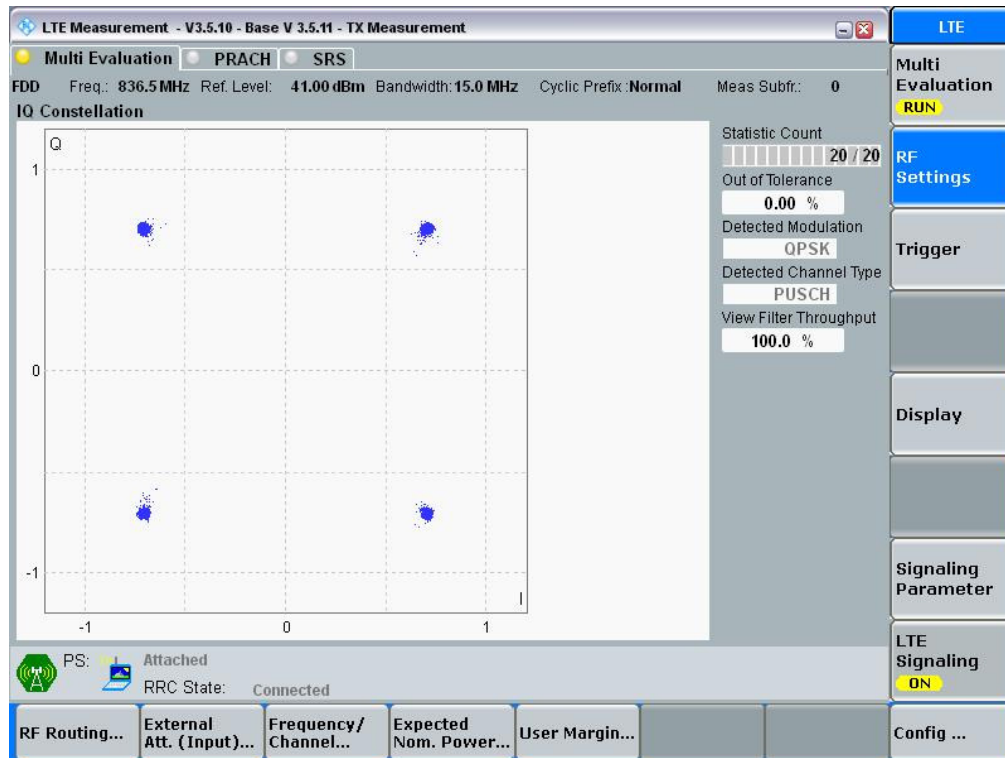
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band26

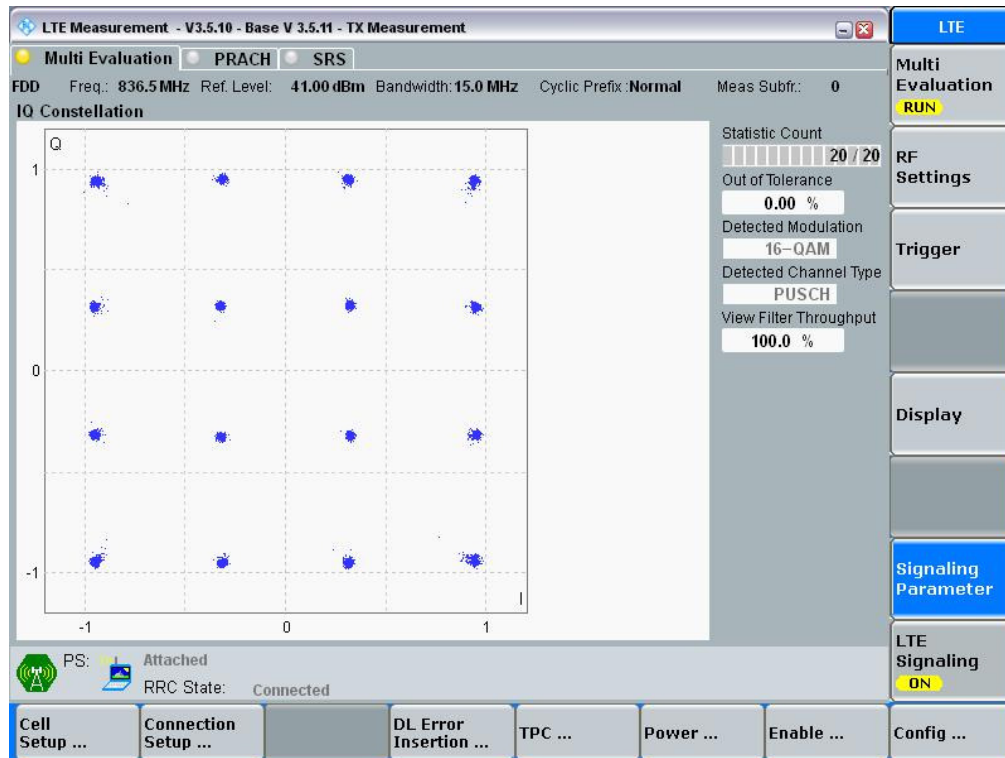
3.1.1.1 Test Mode = LTE /TM1 15MHz

3.1.1.1.1 Test Channel = MCH



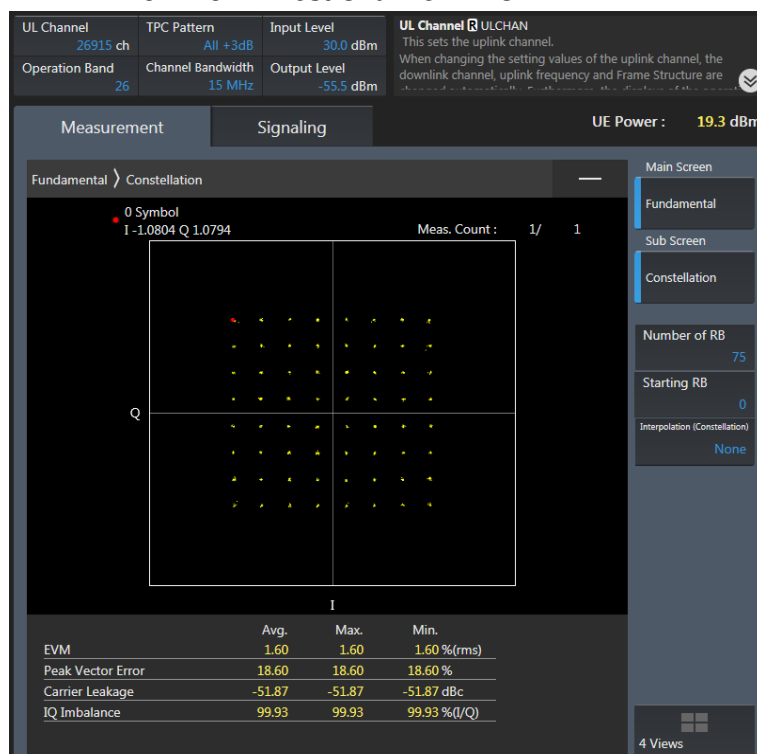
3.1.1.2 Test Mode = LTE /TM2 15MHz

3.1.1.2.1 Test Channel = MCH



3.1.1.3 Test Mode = LTE /TM3 15MHz

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 26	TM1/1.4MHz	LCH	1.11	1.24	PASS
		MCH	1.10	1.24	PASS
		HCH	1.10	1.25	PASS
	TM2/1.4MHz	LCH	1.10	1.25	PASS
		MCH	1.10	1.24	PASS
		HCH	1.10	1.25	PASS
	TM3/1.4MHz	LCH	1.10	1.25	PASS
		MCH	1.10	1.25	PASS
		HCH	1.10	1.25	PASS
	TM1/3MHz	LCH	2.69	2.92	PASS
		MCH	2.69	2.94	PASS
		HCH	2.69	2.94	PASS
	TM2/3MHz	LCH	2.69	2.91	PASS

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



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

Report No.: SZEM180100021803

Page: 27 of 92

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		MCH	2.69	2.93	PASS
		HCH	2.68	2.93	PASS
	TM3/3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.95	PASS
		HCH	2.70	2.93	PASS
	TM1/5MHz	LCH	4.48	4.92	PASS
		MCH	4.29	4.90	PASS
		HCH	4.47	4.88	PASS
	TM2/5MHz	LCH	4.47	4.88	PASS
		MCH	4.48	4.89	PASS
		HCH	4.48	4.88	PASS
	TM3/5MHz	LCH	4.47	4.89	PASS
		MCH	4.47	4.87	PASS
		HCH	4.47	4.86	PASS
	TM1/10MHz	LCH	8.91	9.55	PASS
		MCH	8.97	9.71	PASS
		HCH	8.93	9.63	PASS
	TM2/10MHz	LCH	8.91	9.61	PASS
		MCH	8.95	9.71	PASS
		HCH	8.93	9.73	PASS
	TM3/10MHz	LCH	8.93	9.74	PASS
		MCH	8.99	9.79	PASS
		HCH	8.91	9.59	PASS
	TM1/15MHz	LCH	13.46	14.93	PASS
		MCH	13.58	14.99	PASS
		HCH	13.49	14.81	PASS
	TM2/15MHz	LCH	13.46	14.75	PASS
		MCH	13.58	14.87	PASS
		HCH	13.49	14.99	PASS
	TM3/15MHz	LCH	13.43	14.84	PASS
		MCH	13.58	15.08	PASS
		HCH	13.46	15.05	PASS



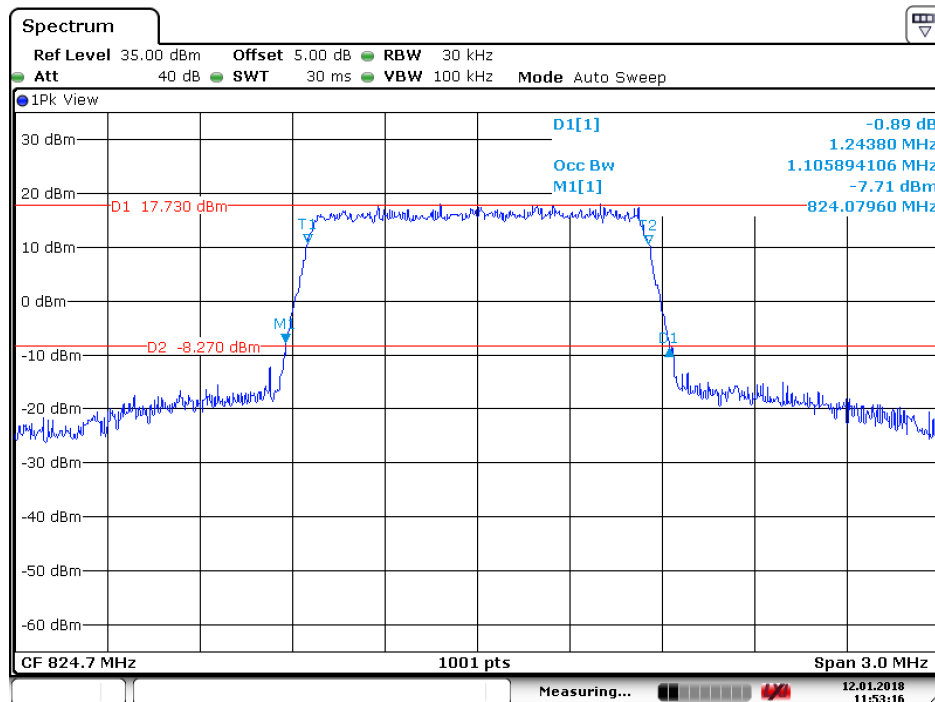
Part II –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band26

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

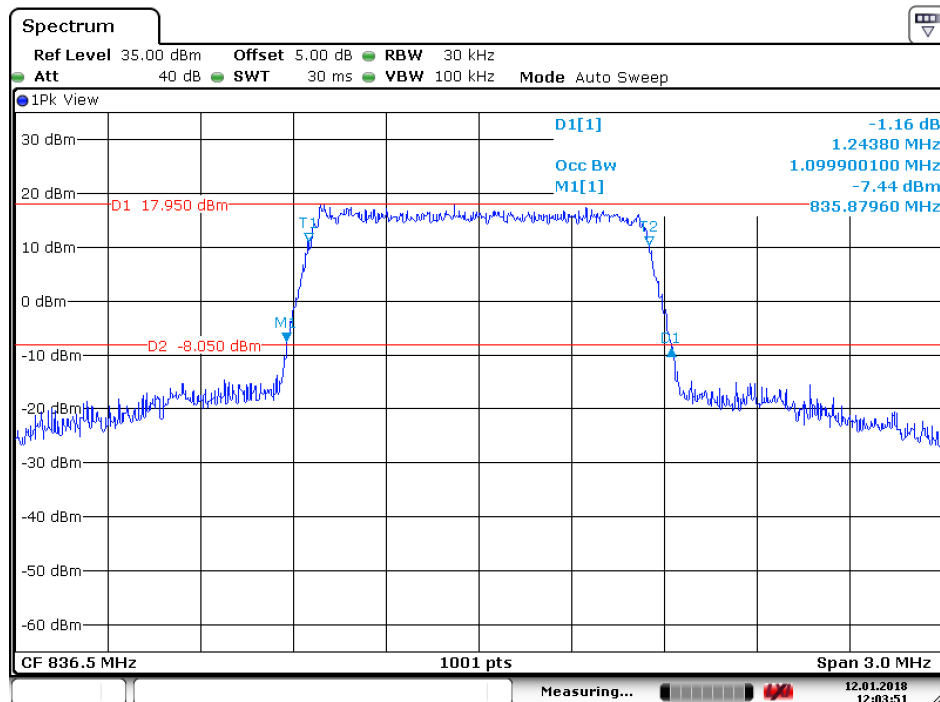
4.1.1.1.1 Test Channel = LCH



Date: 12.JAN.2018 11:53:17

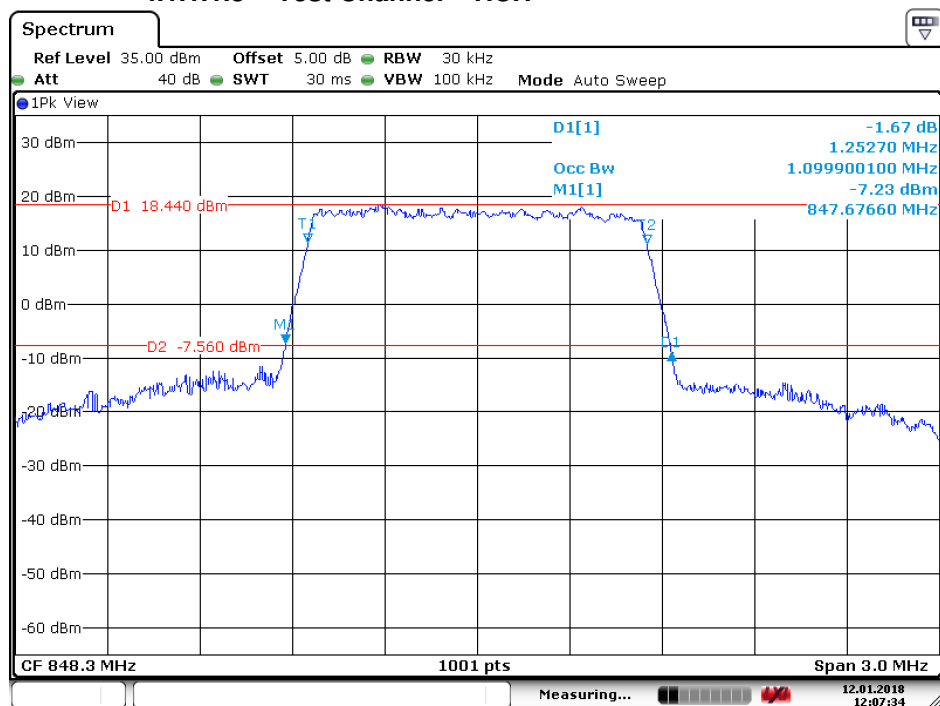


4.1.1.1.2 Test Channel = MCH



Date: 12.JAN.2018 12:03:51

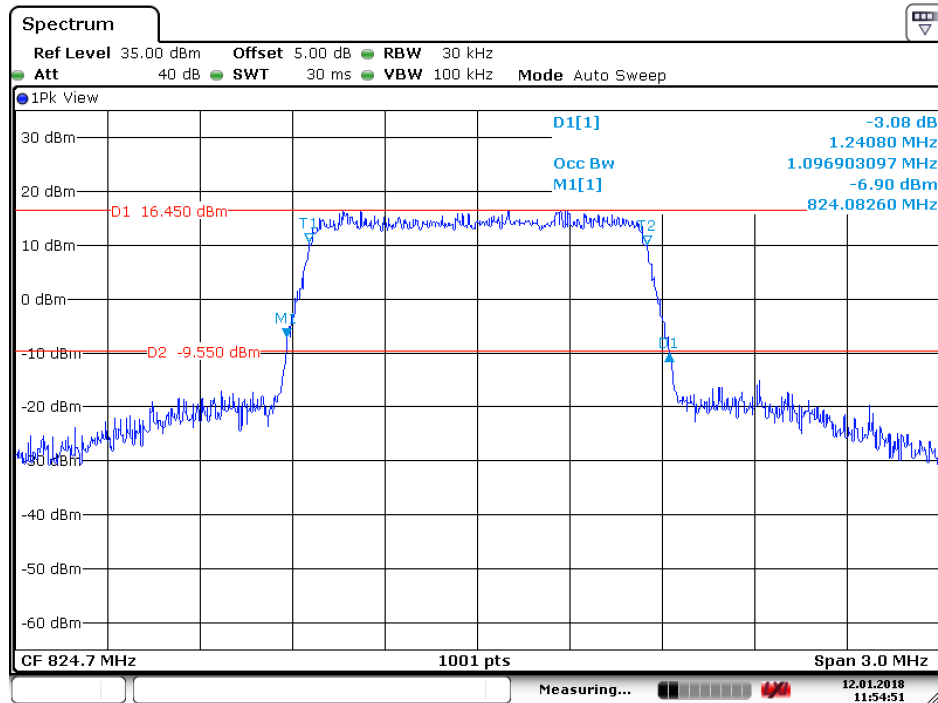
4.1.1.1.3 Test Channel = HCH



Date: 12.JAN.2018 12:07:34

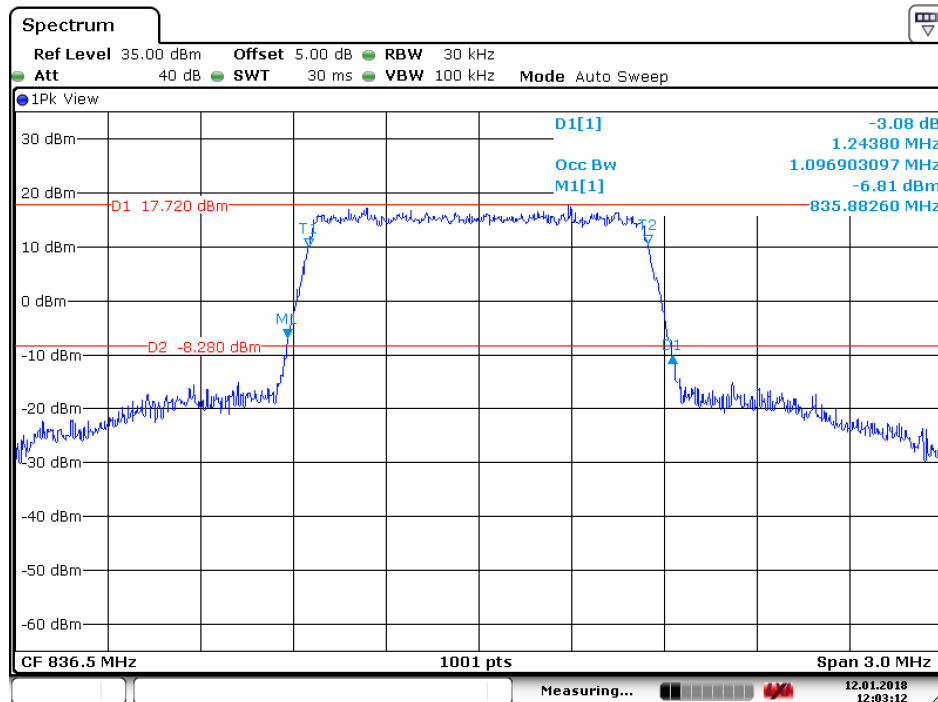
4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH



Date: 12.JAN.2018 11:54:52

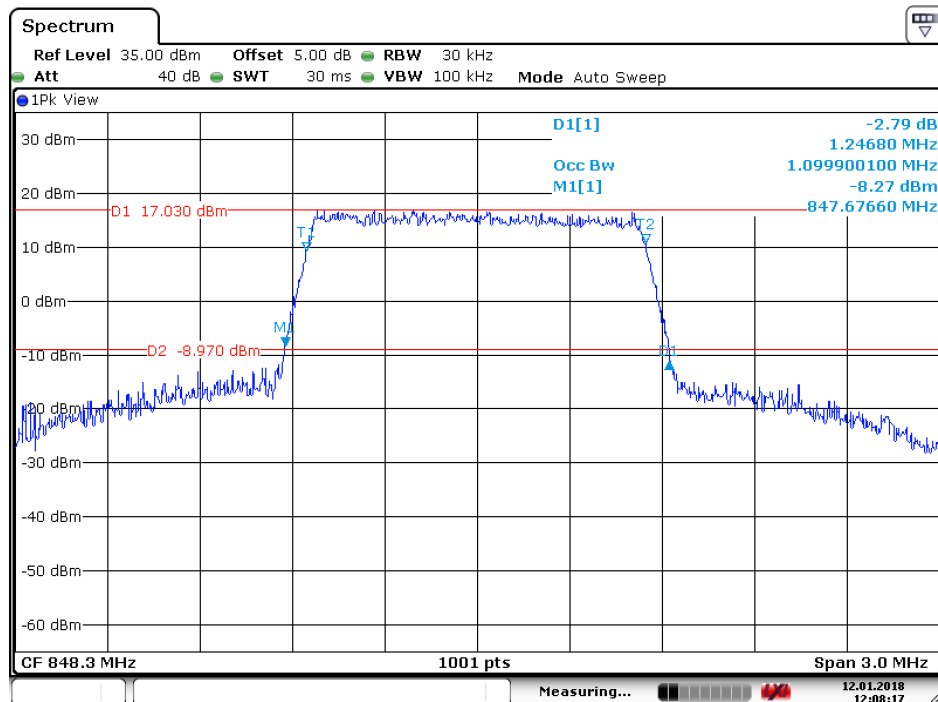
4.1.1.2.2 Test Channel = MCH



Date: 12.JAN.2018 12:03:12



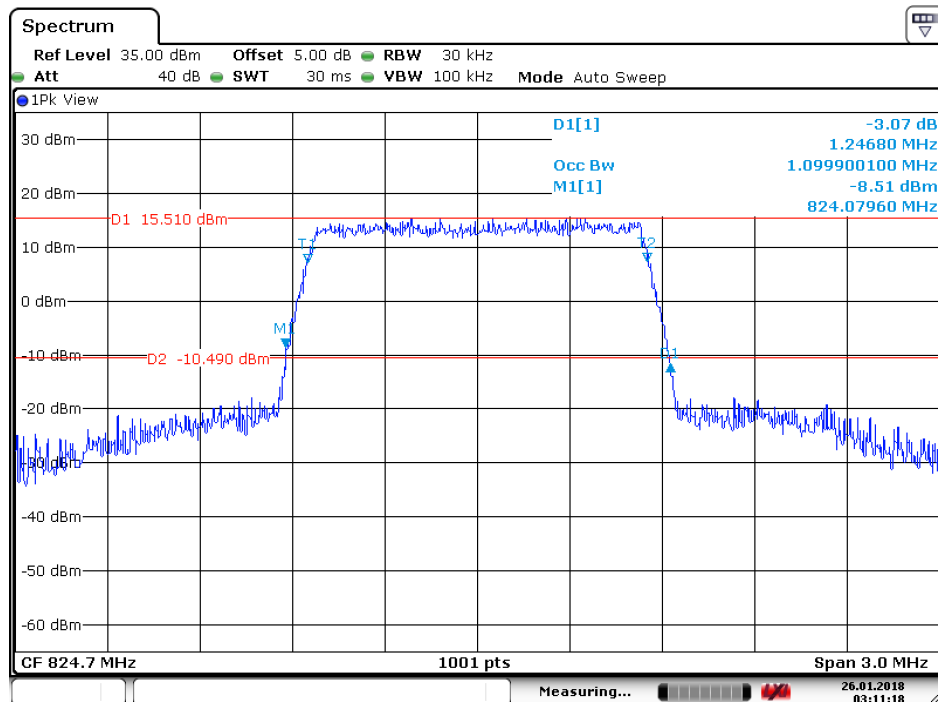
4.1.1.2.3 Test Channel = HCH



Date: 12.JAN.2018 12:08:17

4.1.1.3 Test Mode = LTE/TM3 1.4MHz

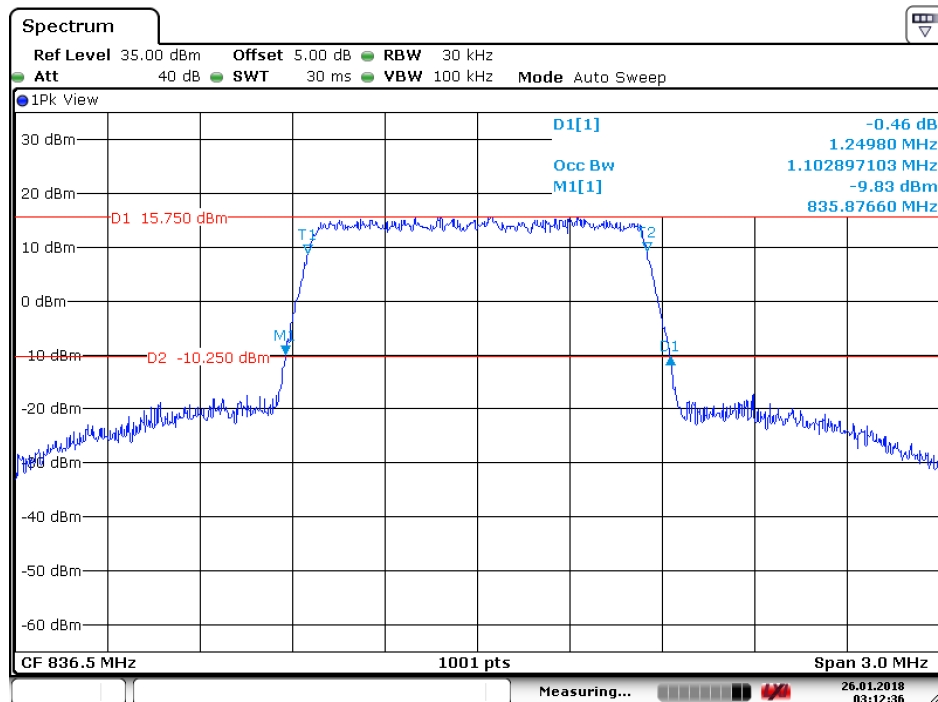
4.1.1.3.1 Test Channel = LCH



Date: 26.JAN.2018 03:11:18

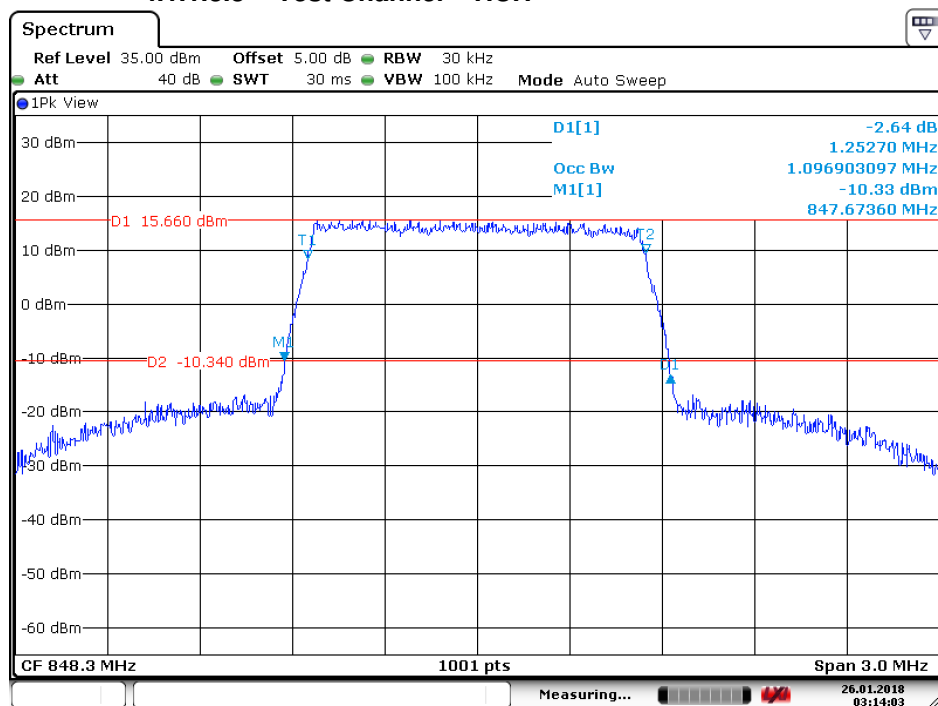


4.1.1.3.2 Test Channel = MCH



Date: 26.JAN.2018 03:12:37

4.1.1.3.3 Test Channel = HCH

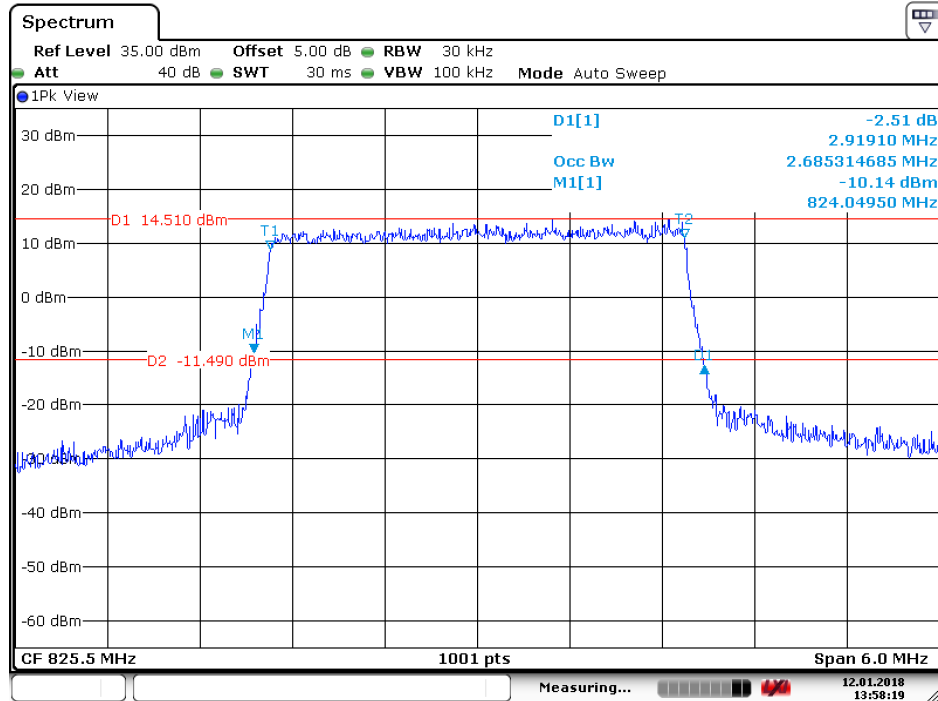


Date: 26.JAN.2018 03:14:03



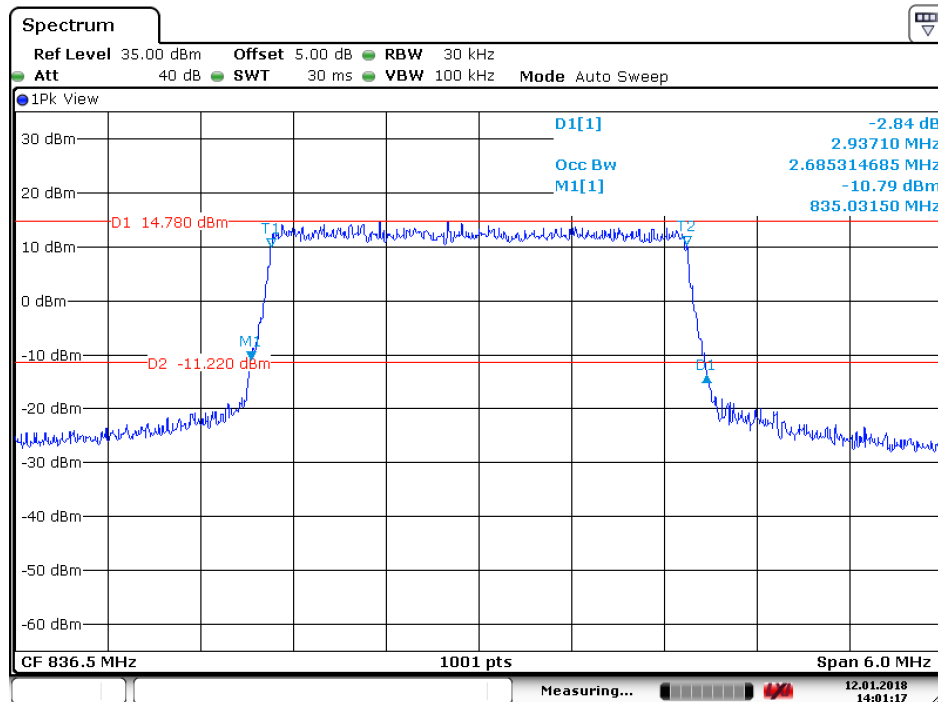
4.1.1.4 Test Mode = LTE/TM1 3MHz

4.1.1.4.1 Test Channel = LCH



Date: 12.JAN.2018 13:58:19

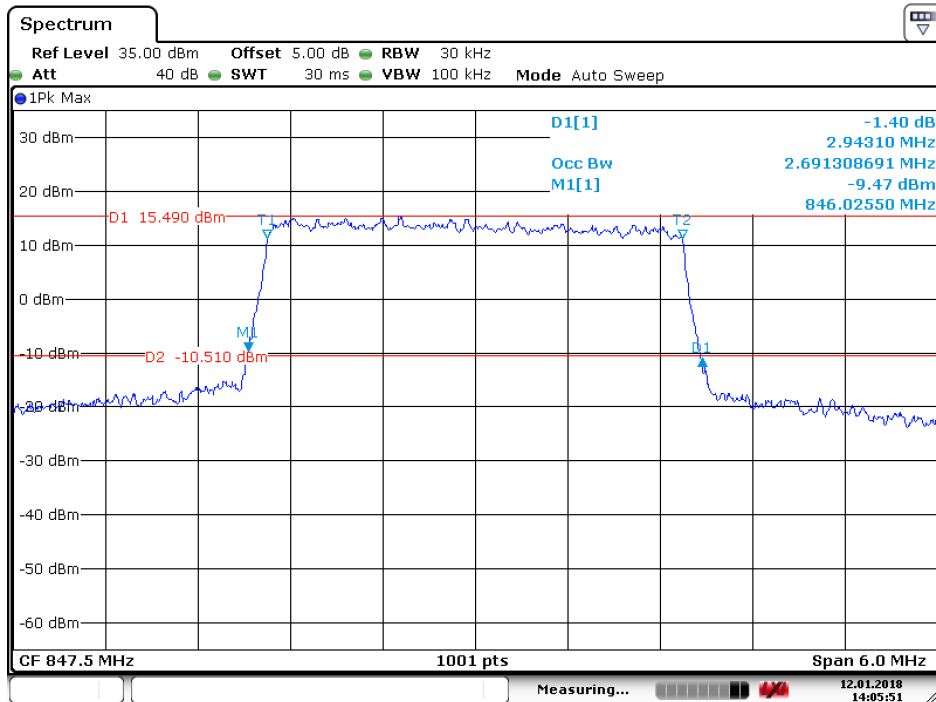
4.1.1.4.2 Test Channel = MCH



Date: 12.JAN.2018 14:01:17



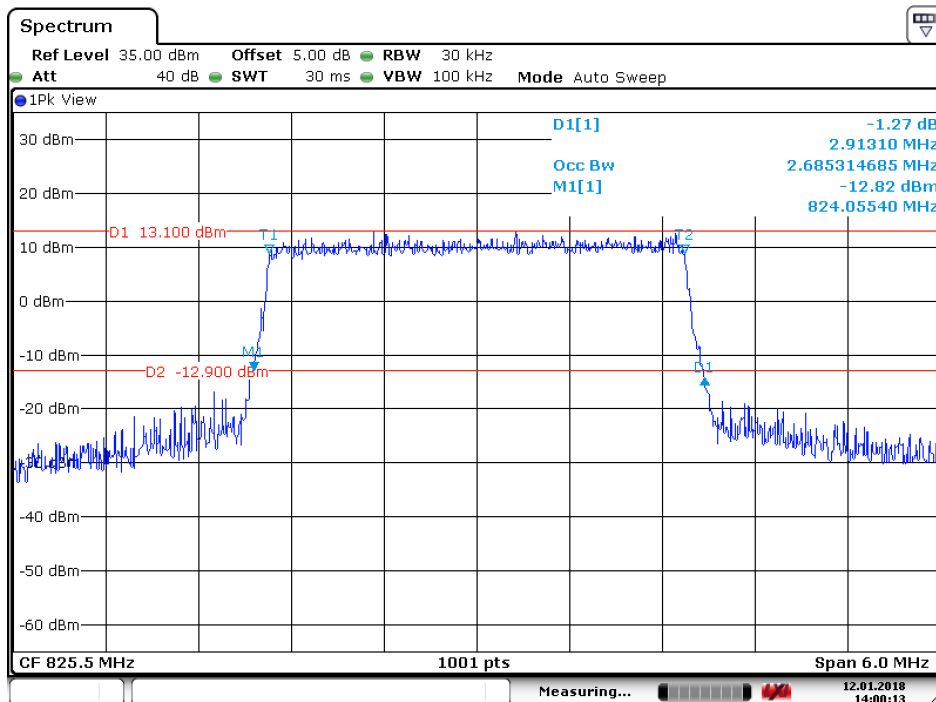
4.1.1.4.3 Test Channel = HCH



Date: 12.JAN.2018 14:05:51

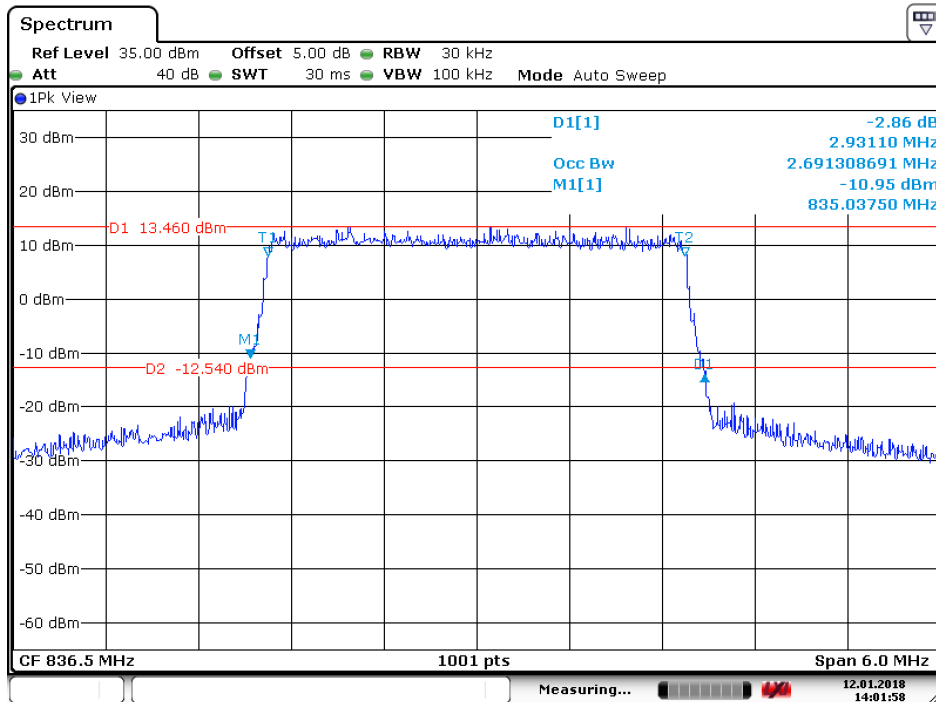
4.1.1.5 Test Mode = LTE/TM2 3MHz

4.1.1.5.1 Test Channel = LCH



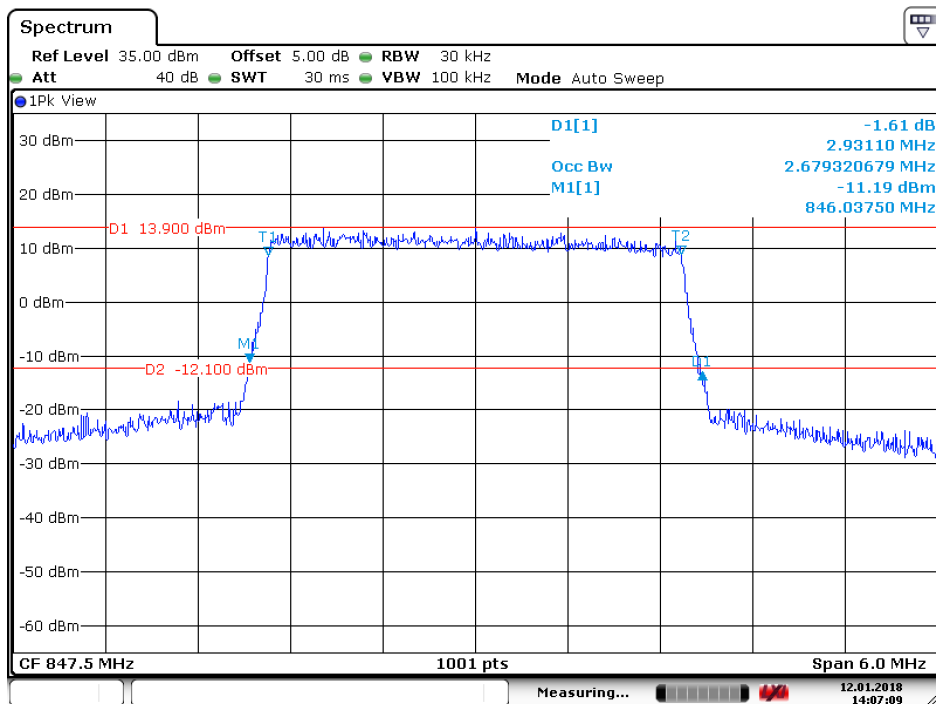
Date: 12.JAN.2018 14:00:13

4.1.1.5.2 Test Channel = MCH



Date: 12.JAN.2018 14:01:58

4.1.1.5.3 Test Channel = HCH

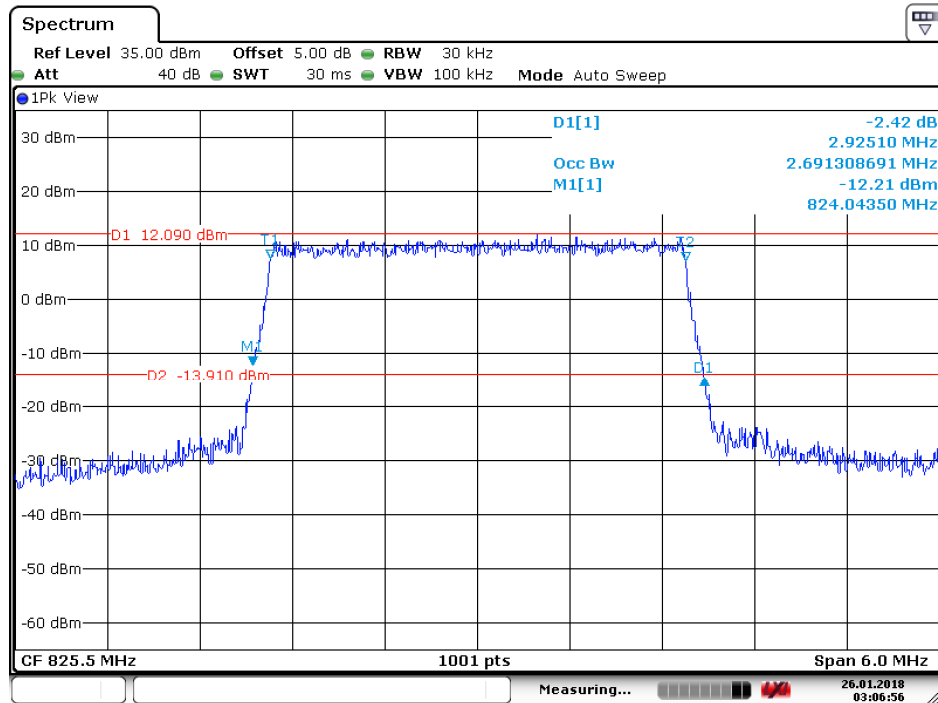


Date: 12.JAN.2018 14:07:10



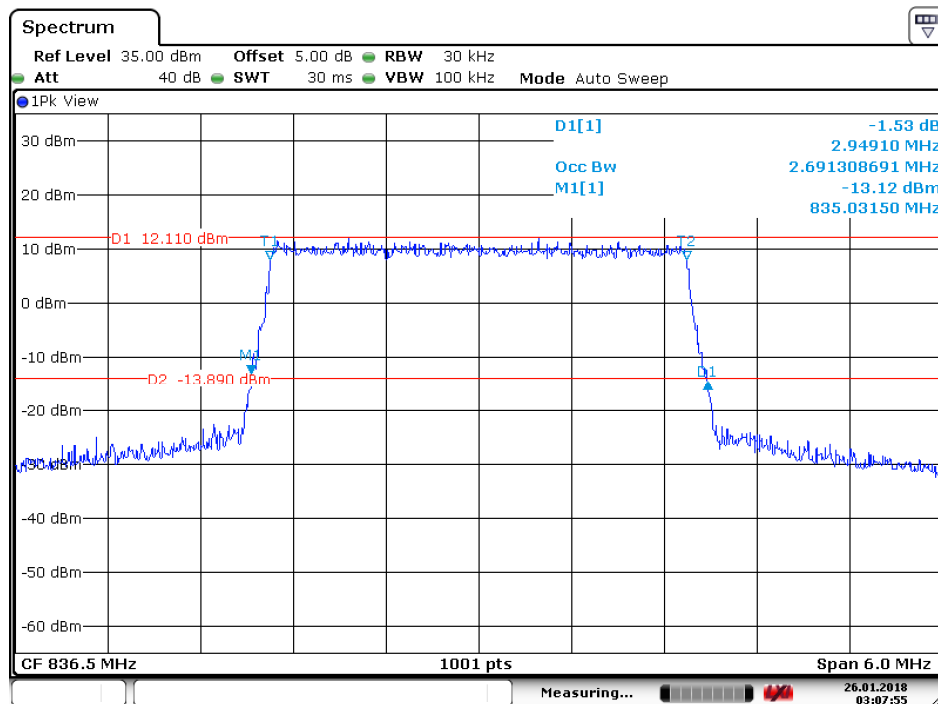
4.1.1.6 Test Mode = LTE/TM3 3MHz

4.1.1.6.1 Test Channel = LCH



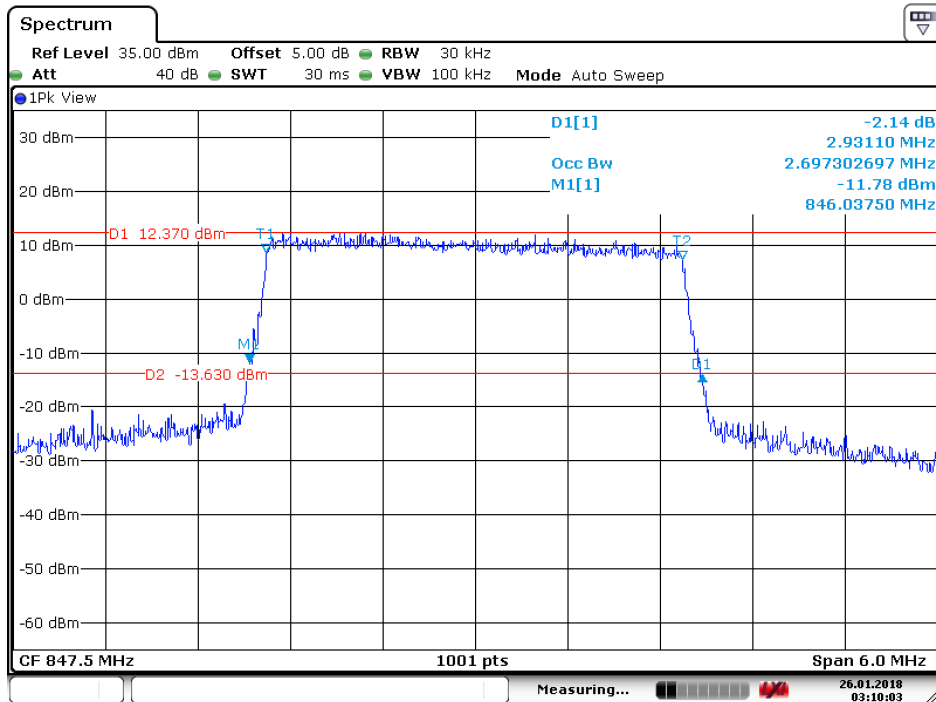
Date: 26.JAN.2018 03:06:56

4.1.1.6.2 Test Channel = MCH



Date: 26.JAN.2018 03:07:56

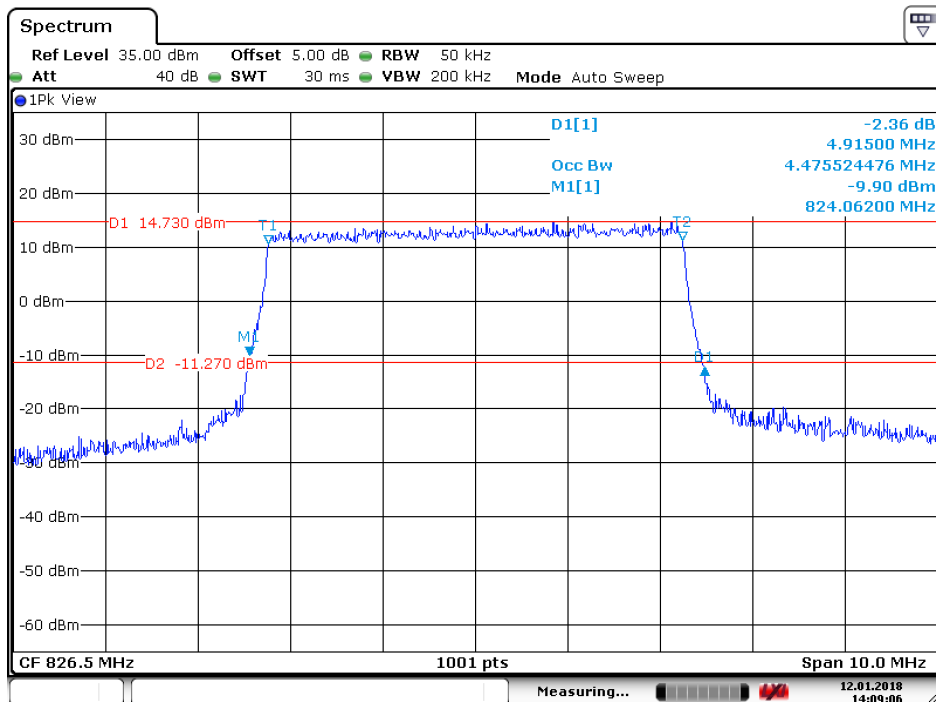
4.1.1.6.3 Test Channel = HCH



Date: 26.JAN.2018 03:10:04

4.1.1.7 Test Mode = LTE/TM1 5MHz

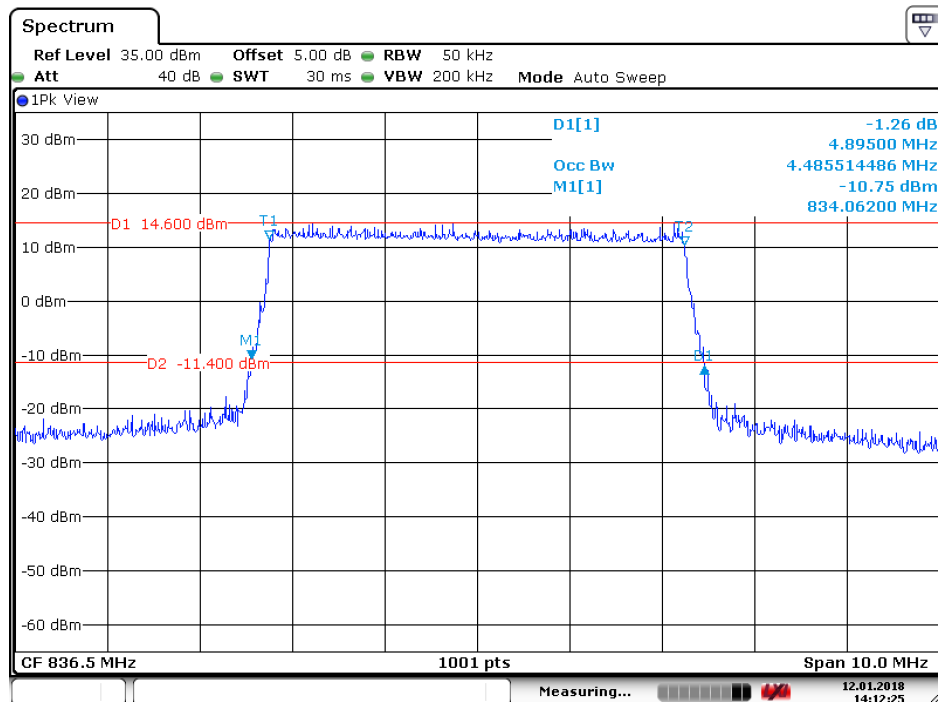
4.1.1.7.1 Test Channel = LCH



Date: 12.JAN.2018 14:09:06

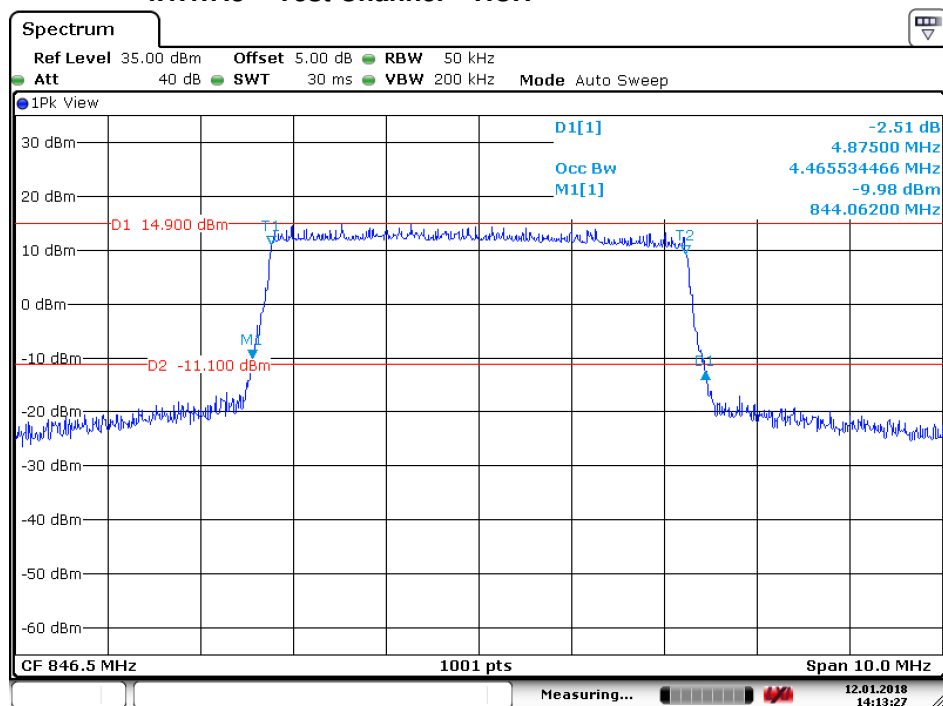


4.1.1.7.2 Test Channel = MCH



Date: 12.JAN.2018 14:12:26

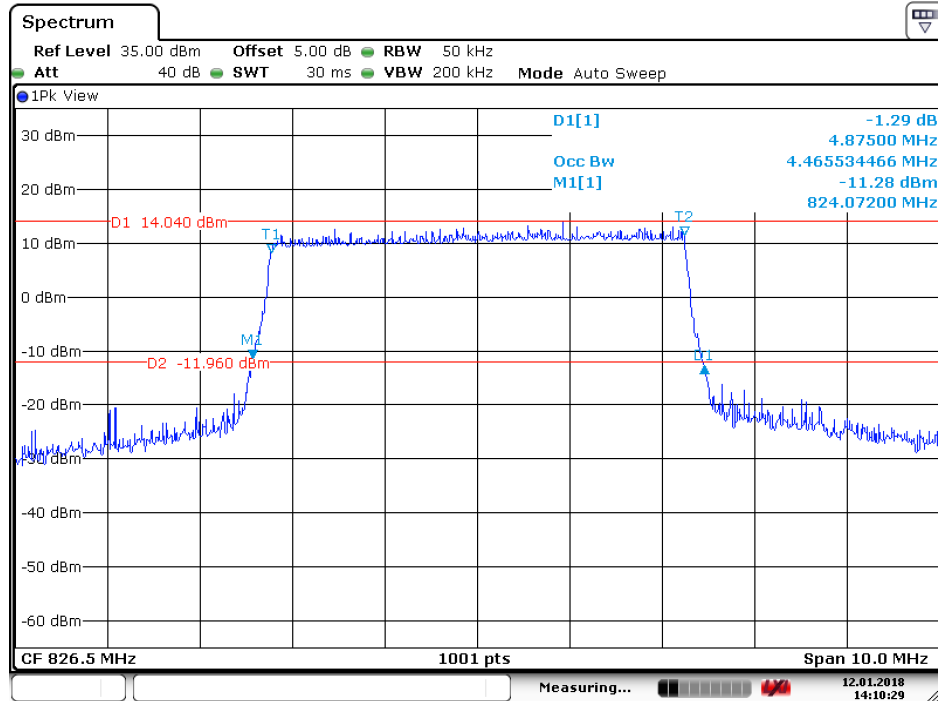
4.1.1.7.3 Test Channel = HCH



Date: 12.JAN.2018 14:13:27

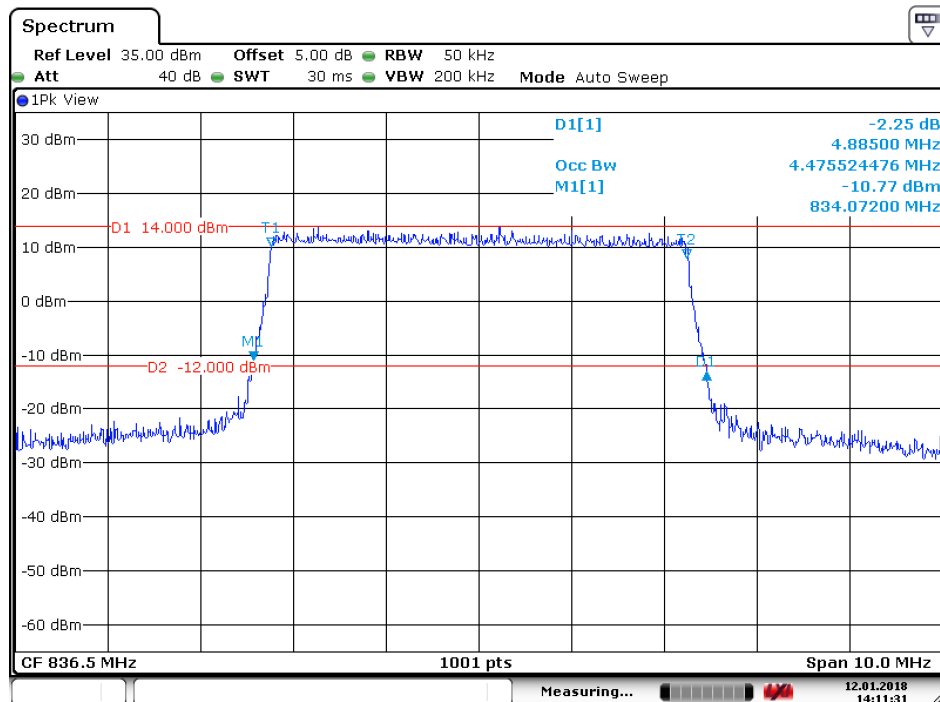
4.1.1.8 Test Mode = LTE/TM2 5MHz

4.1.1.8.1 Test Channel = LCH



Date: 12.JAN.2018 14:10:29

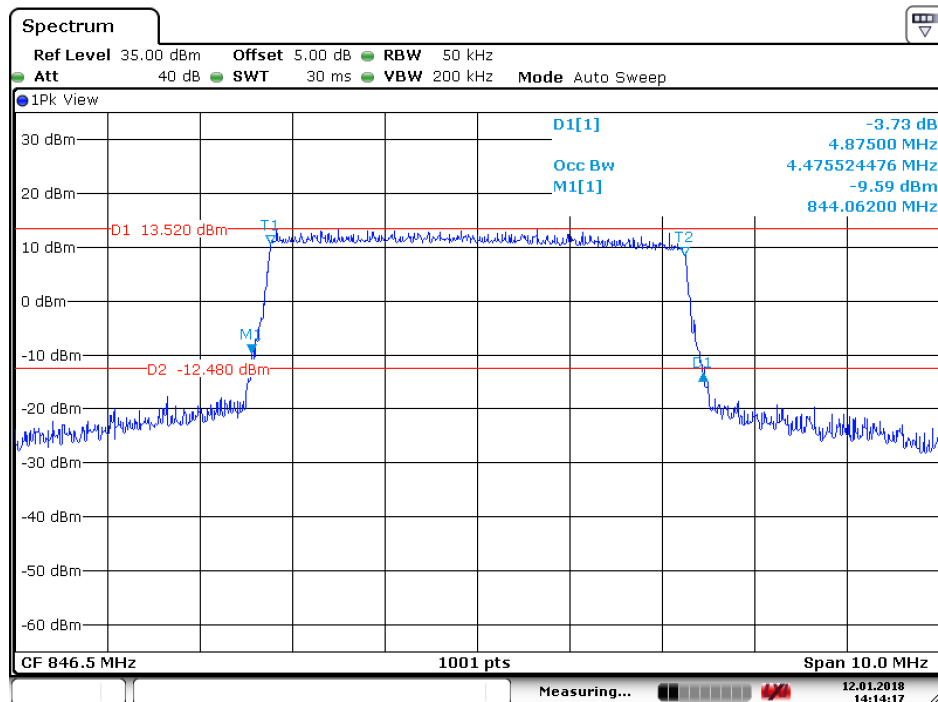
4.1.1.8.2 Test Channel = MCH



Date: 12.JAN.2018 14:11:31



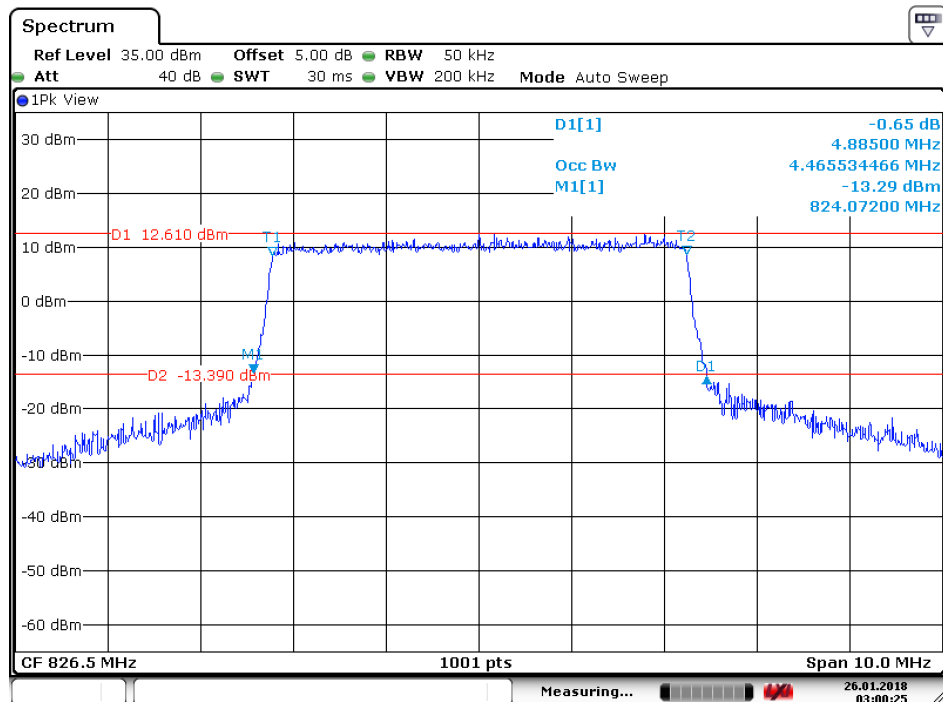
4.1.1.8.3 Test Channel = HCH



Date: 12.JAN.2018 14:14:17

4.1.1.9 Test Mode = LTE/TM3 5MHz

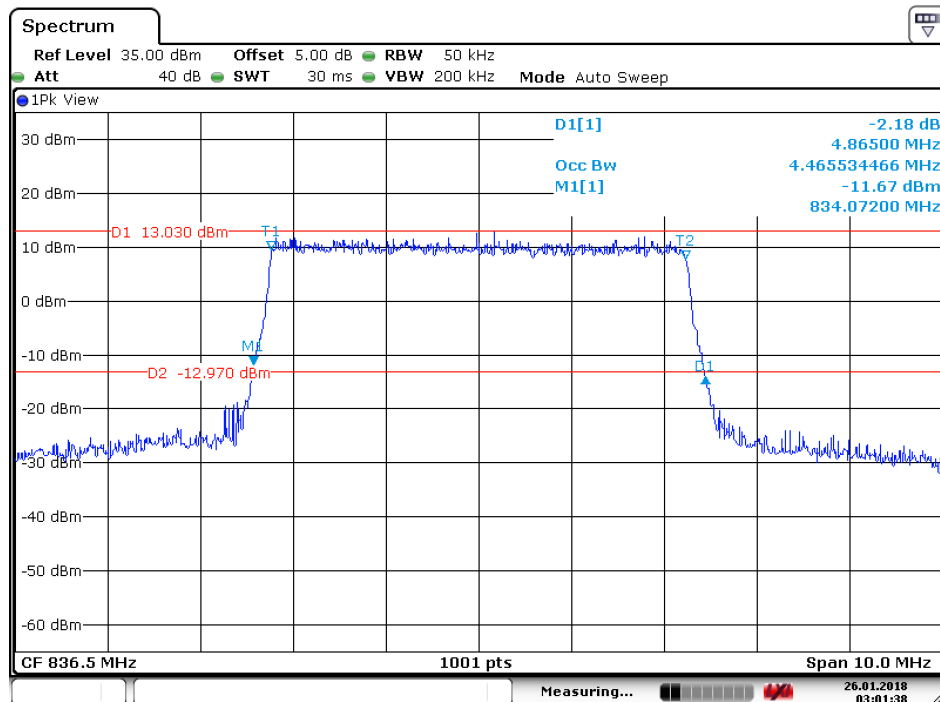
4.1.1.9.1 Test Channel = LCH



Date: 26.JAN.2018 03:00:26

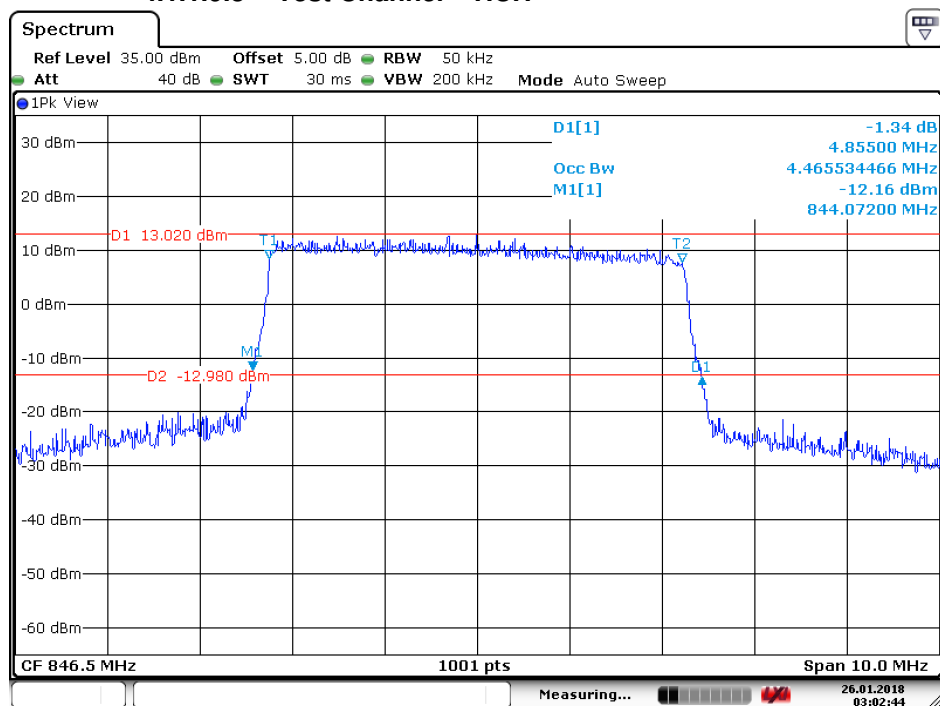


4.1.1.9.2 Test Channel = MCH



Date: 26.JAN.2018 03:01:39

4.1.1.9.3 Test Channel = HCH

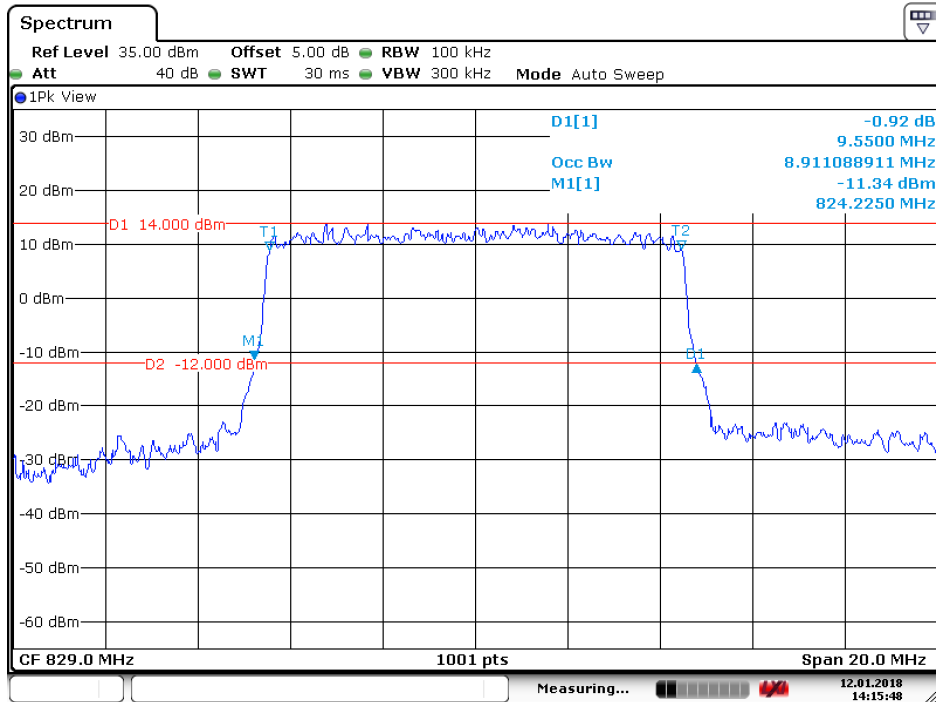


Date: 26.JAN.2018 03:02:44



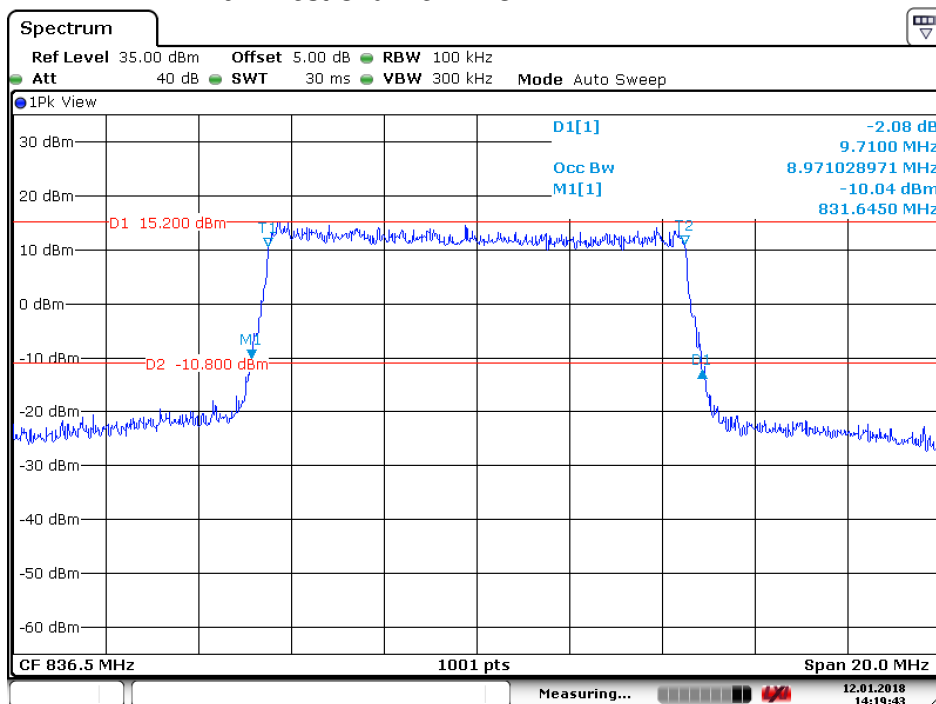
4.1.1.10 Test Mode = LTE/TM1 10MHz

4.1.1.10.1 Test Channel = LCH



Date: 12.JAN.2018 14:15:49

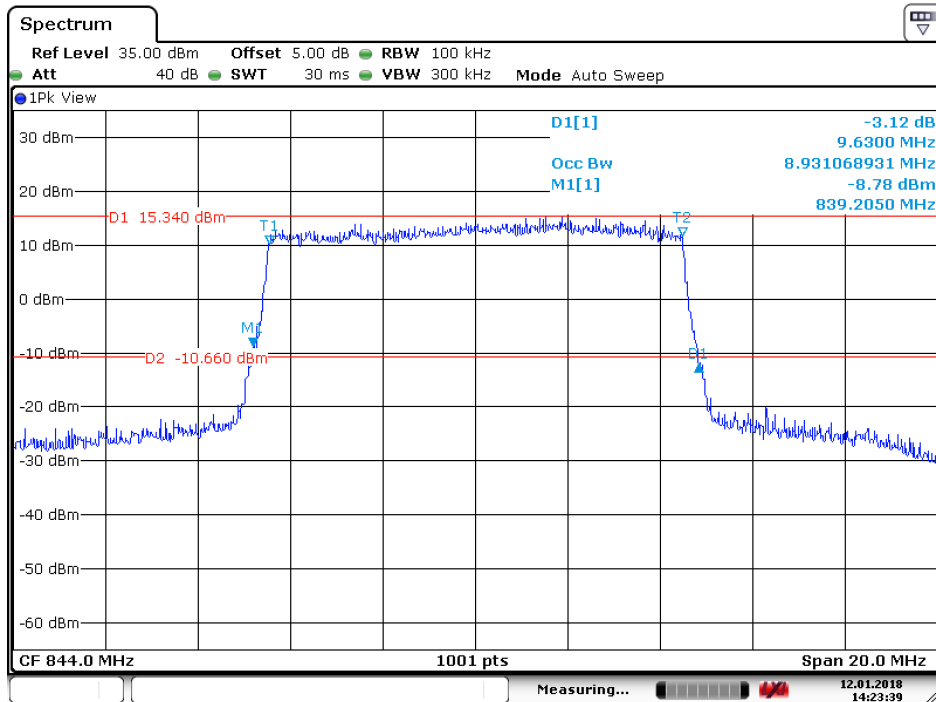
4.1.1.10.2 Test Channel = MCH



Date: 12.JAN.2018 14:19:43



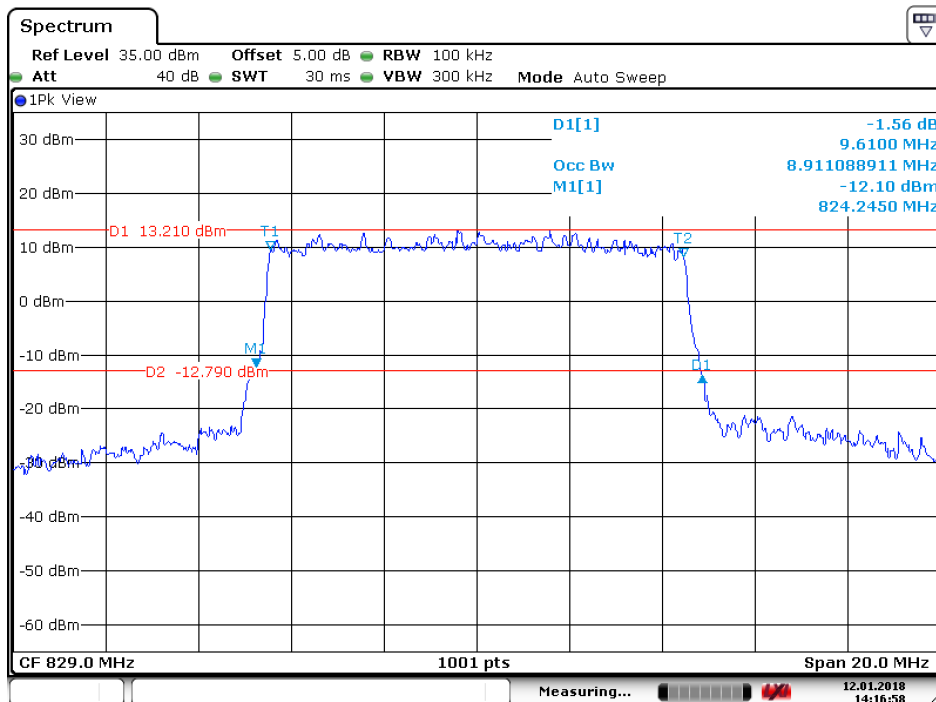
4.1.1.10.3 Test Channel = HCH



Date: 12.JAN.2018 14:23:39

4.1.1.11 Test Mode = LTE/TM2 10MHz

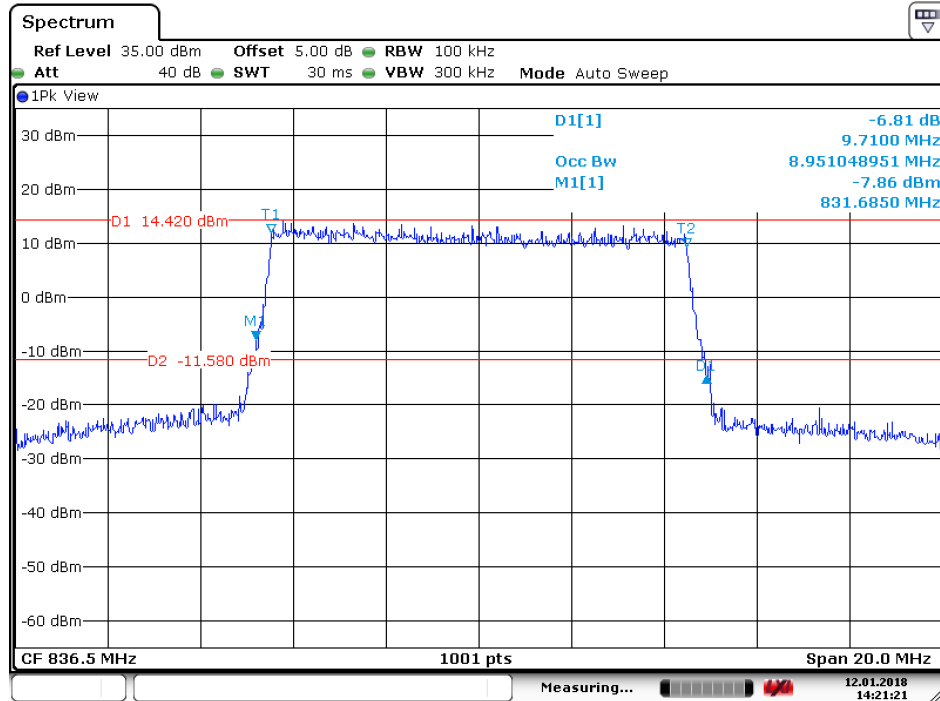
4.1.1.11.1 Test Channel = LCH



Date: 12.JAN.2018 14:16:58

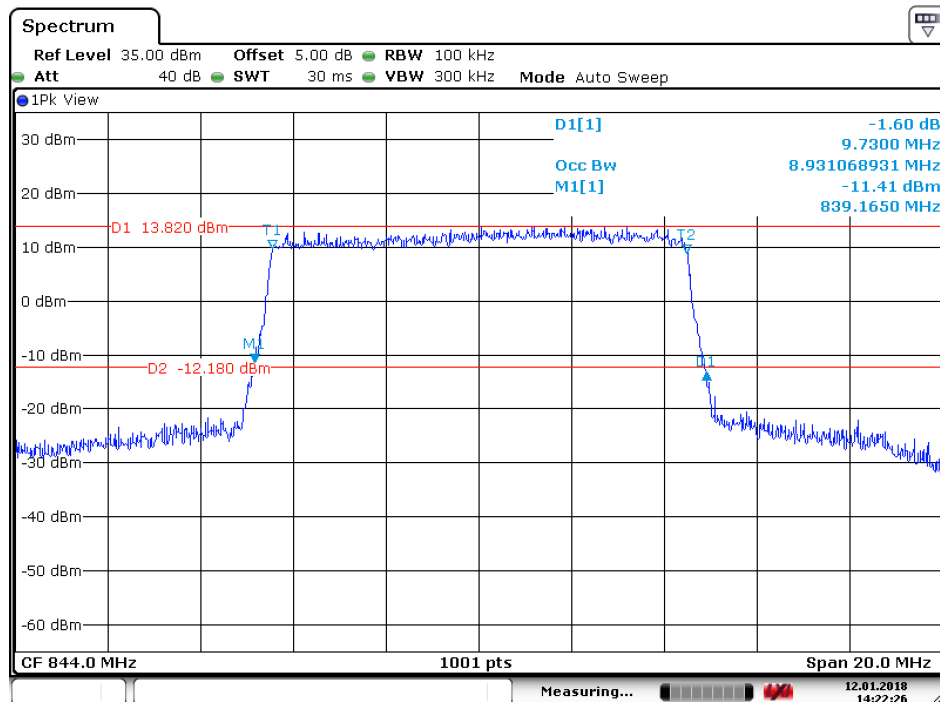


4.1.1.11.2 Test Channel = MCH



Date: 12.JAN.2018 14:21:21

4.1.1.11.3 Test Channel = HCH

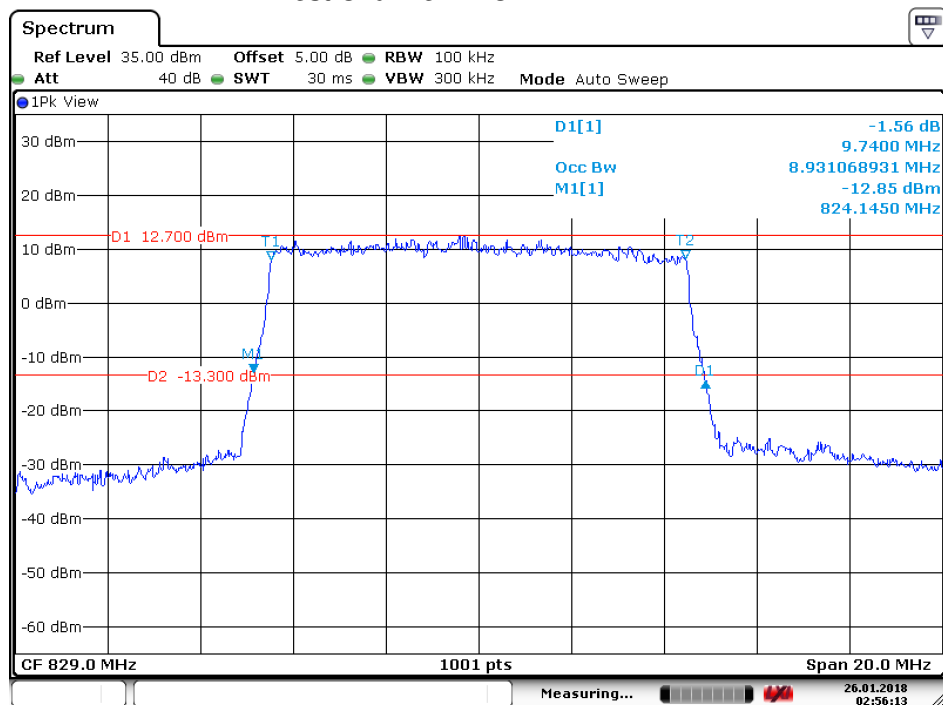


Date: 12.JAN.2018 14:22:27



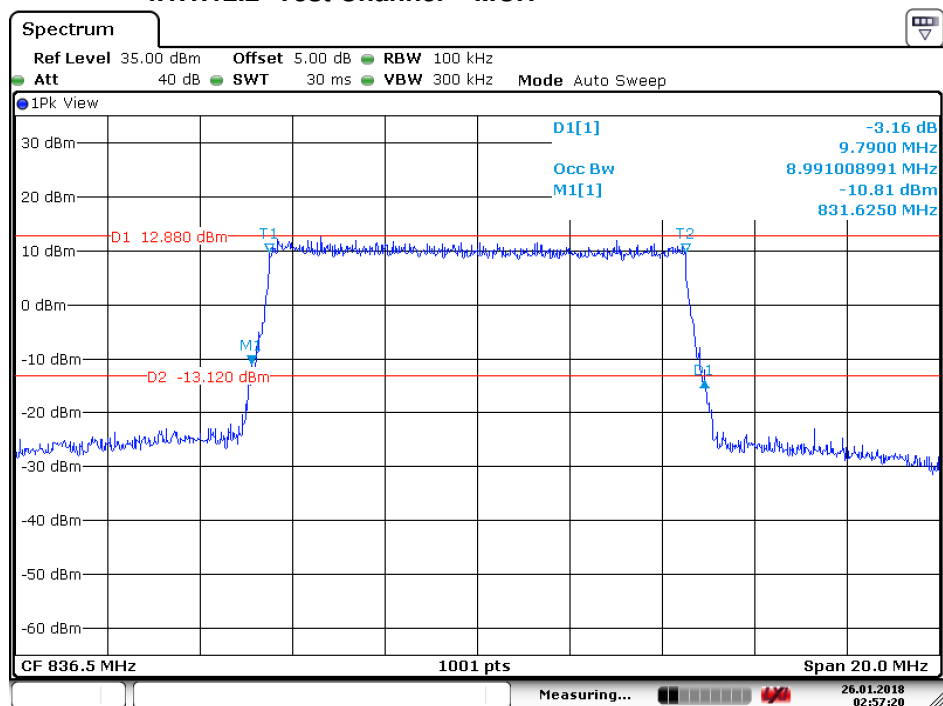
4.1.1.12 Test Mode = LTE/TM3 10MHz

4.1.1.12.1 Test Channel = LCH



Date: 26.JAN.2018 02:56:13

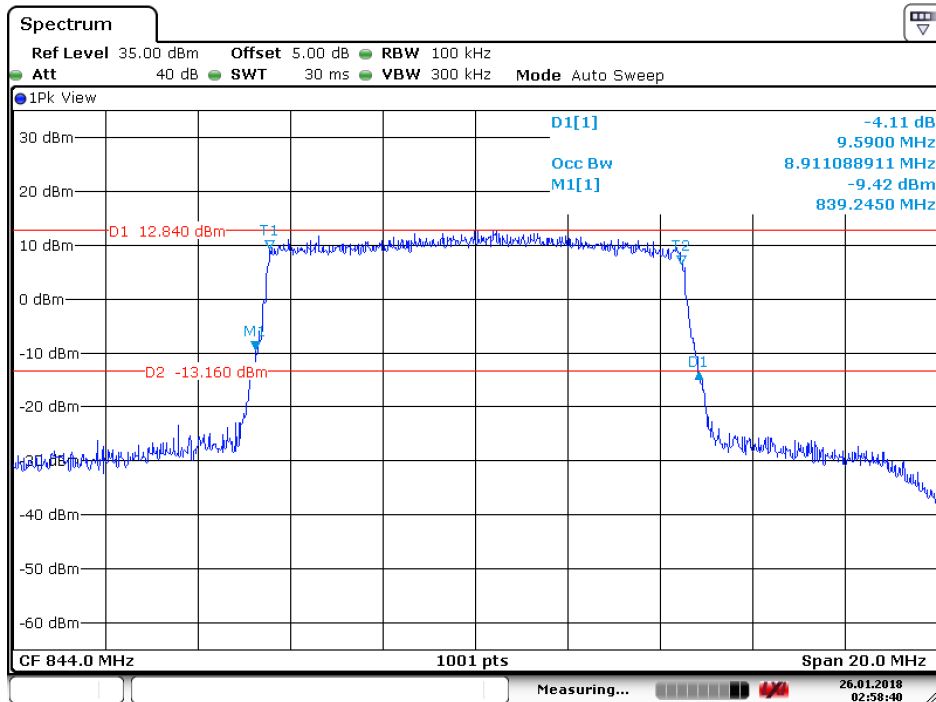
4.1.1.12.2 Test Channel = MCH



Date: 26.JAN.2018 02:57:20



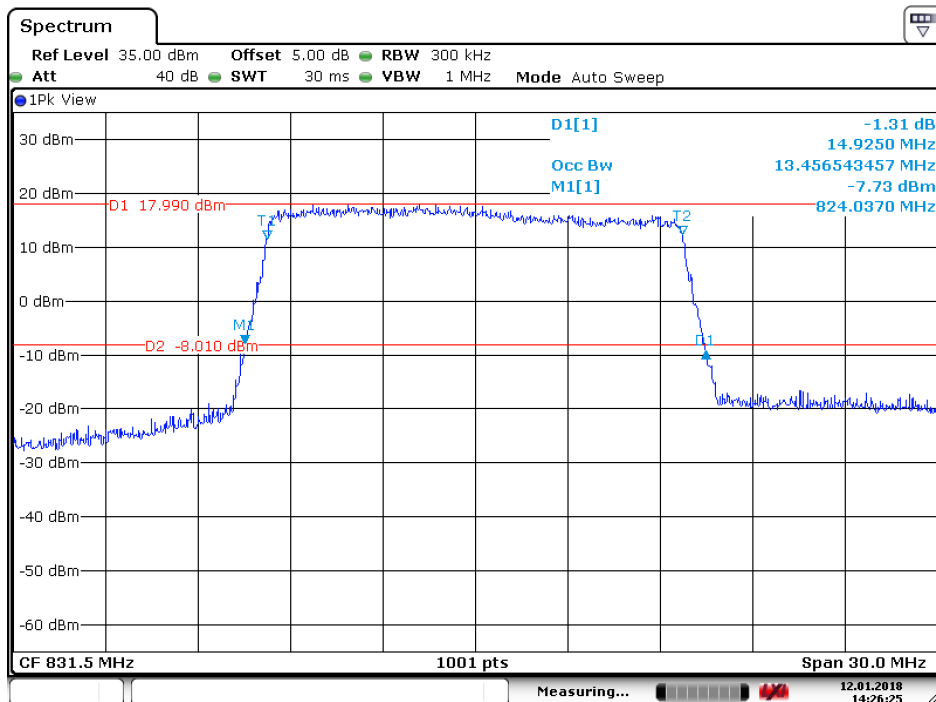
4.1.1.12.3 Test Channel = HCH



Date: 26.JAN.2018 02:58:40

4.1.1.13 Test Mode = LTE/TM1 15MHz

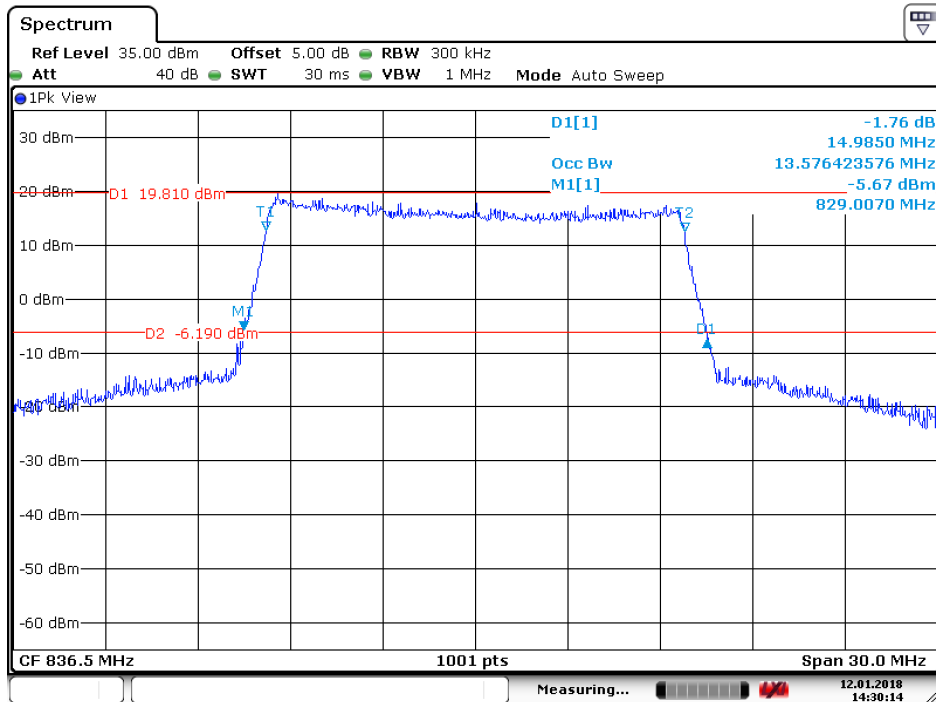
4.1.1.13.1 Test Channel = LCH



Date: 12.JAN.2018 14:26:26

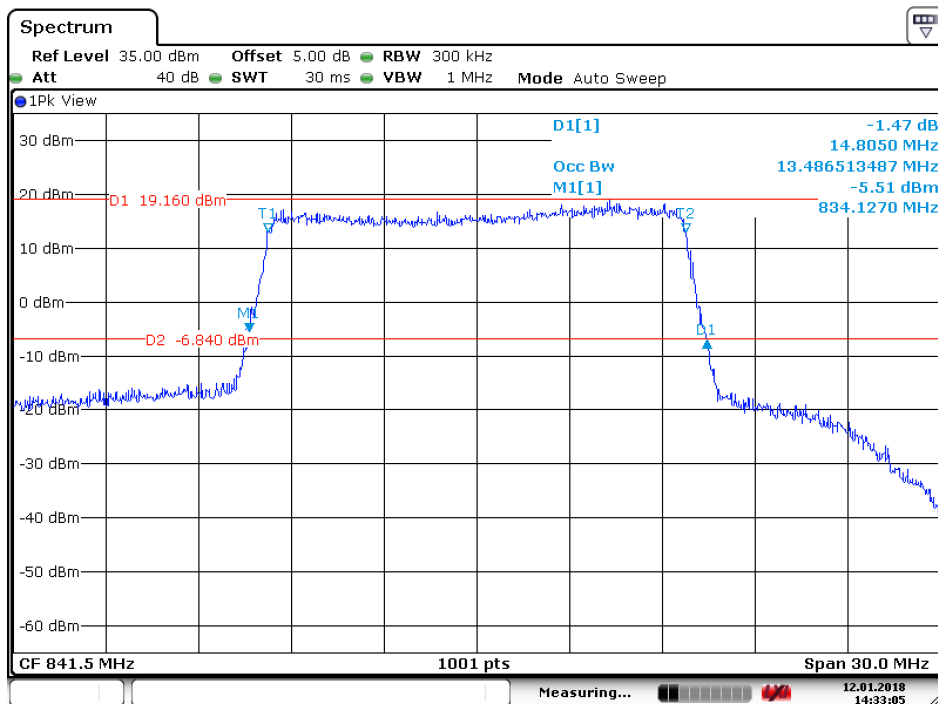


4.1.1.13.2 Test Channel = MCH



Date: 12.JAN.2018 14:30:15

4.1.1.13.3 Test Channel = HCH

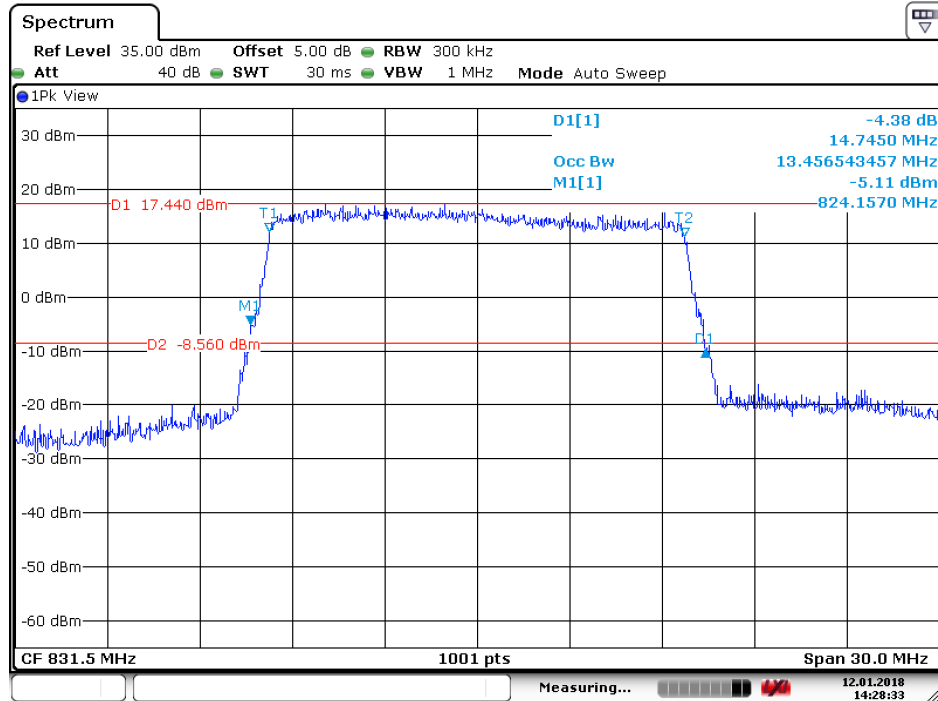


Date: 12.JAN.2018 14:33:05



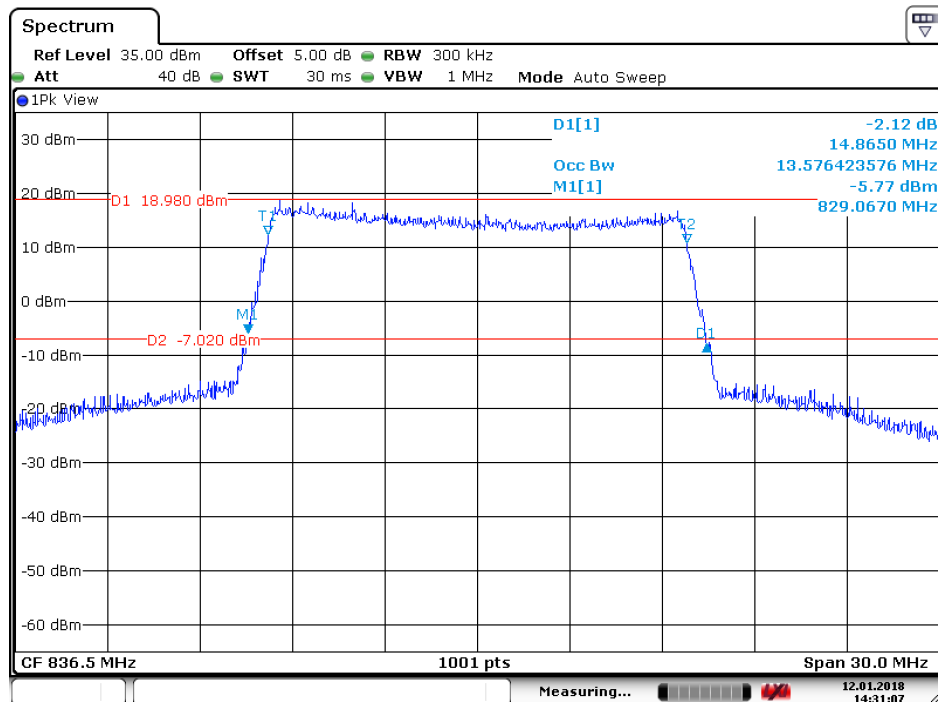
4.1.1.14 Test Mode = LTE/TM2 15MHz

4.1.1.14.1 Test Channel = LCH



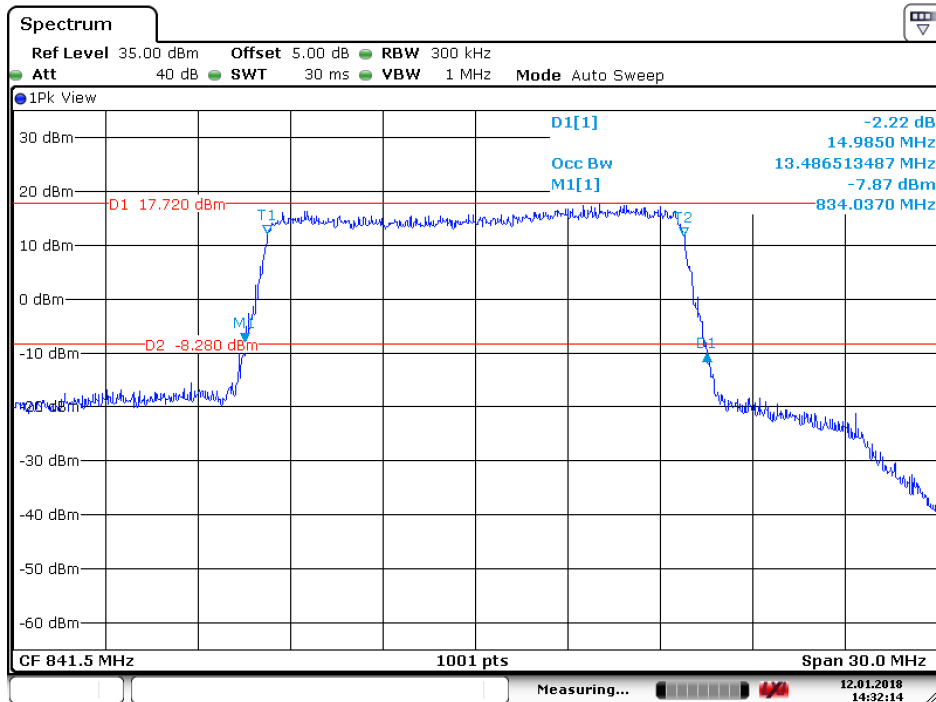
Date: 12.JAN.2018 14:28:34

4.1.1.14.2 Test Channel = MCH



Date: 12.JAN.2018 14:31:07

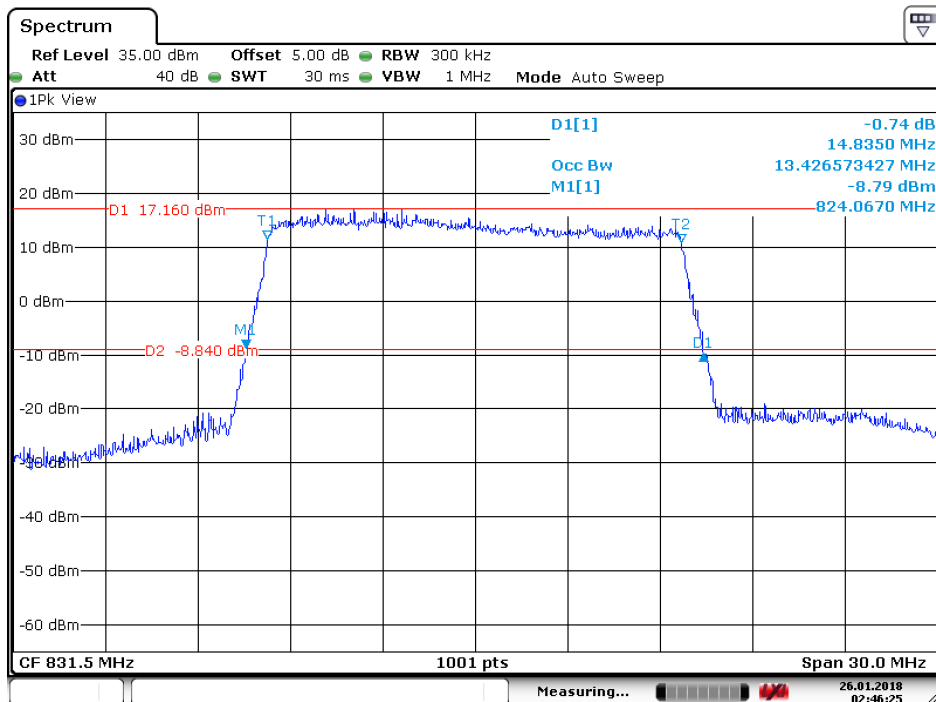
4.1.1.14.3 Test Channel = HCH



Date: 12.JAN.2018 14:32:15

4.1.1.15 Test Mode = LTE/TM3 15MHz

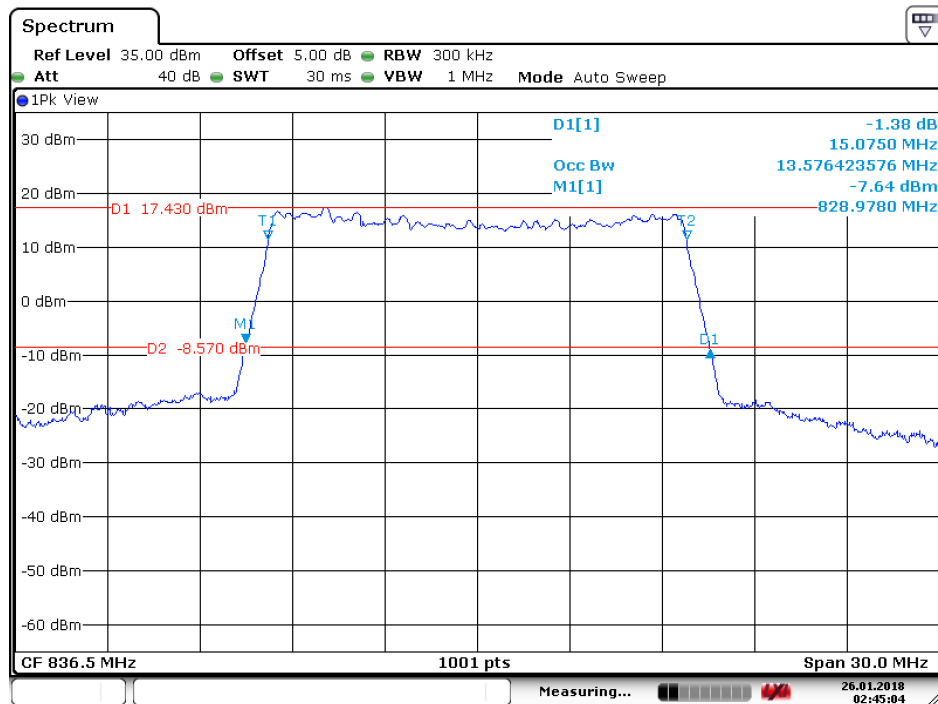
4.1.1.15.1 Test Channel = LCH



Date: 26.JAN.2018 02:46:25

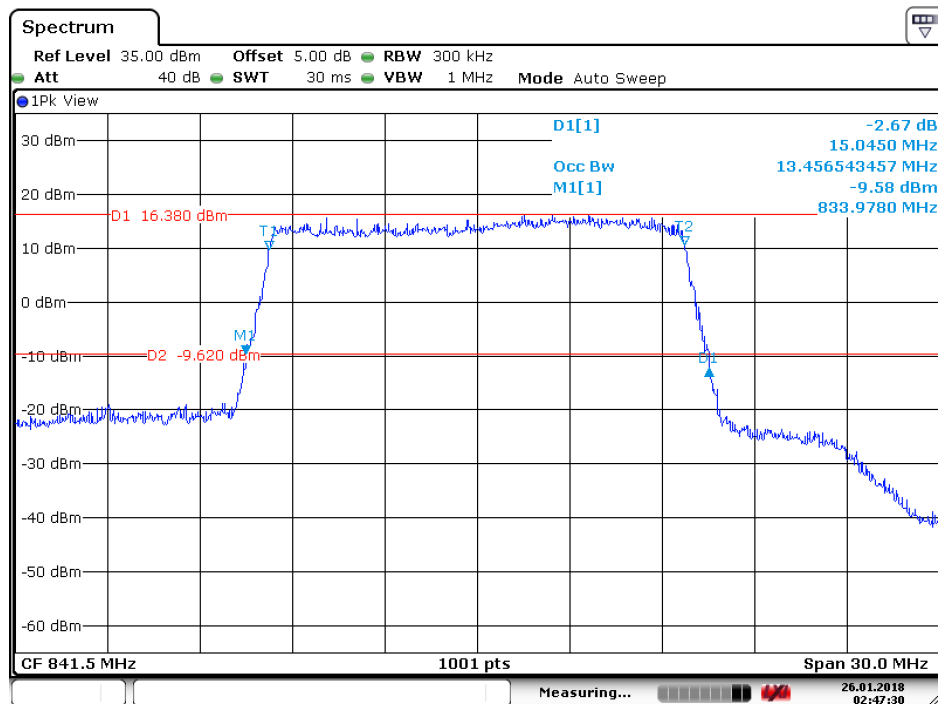


4.1.1.15.2 Test Channel = MCH



Date: 26.JAN.2018 02:45:04

4.1.1.15.3 Test Channel = HCH



Date: 26.JAN.2018 02:47:30



5 Band Edges Compliance

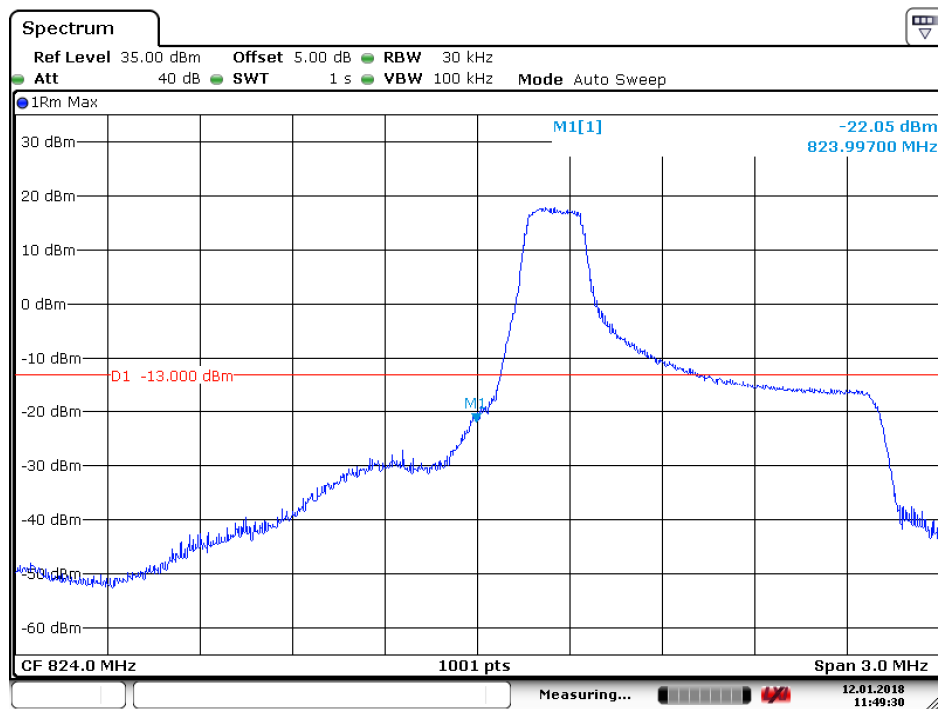
5.1 For LTE

5.1.1 Test Band = LTE band26

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

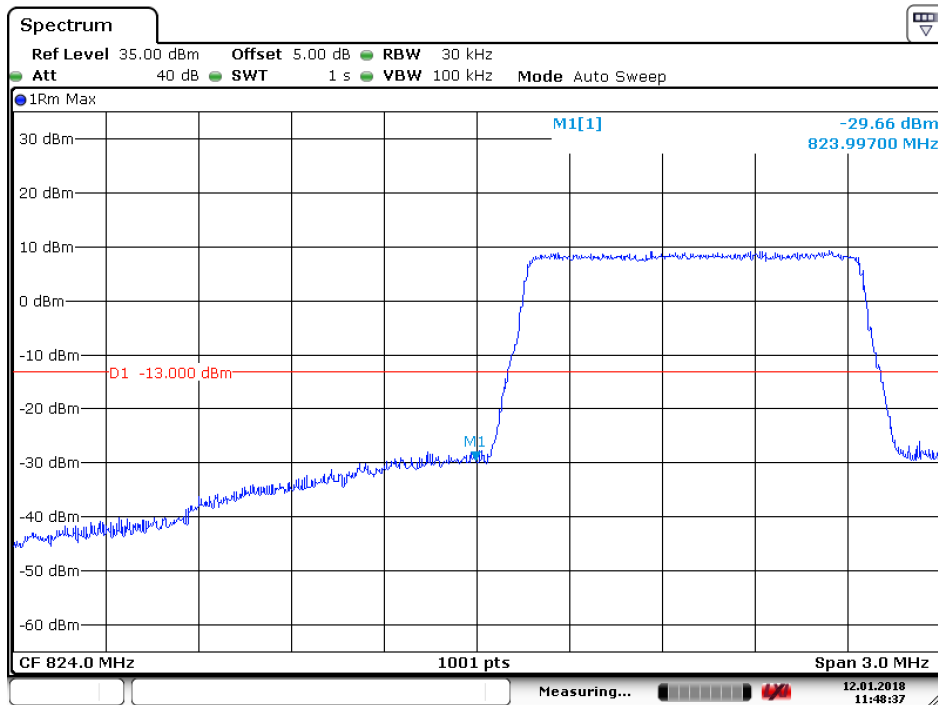
5.1.1.1.1.1 Test RB=1RB



Date: 12.JAN.2018 11:49:30



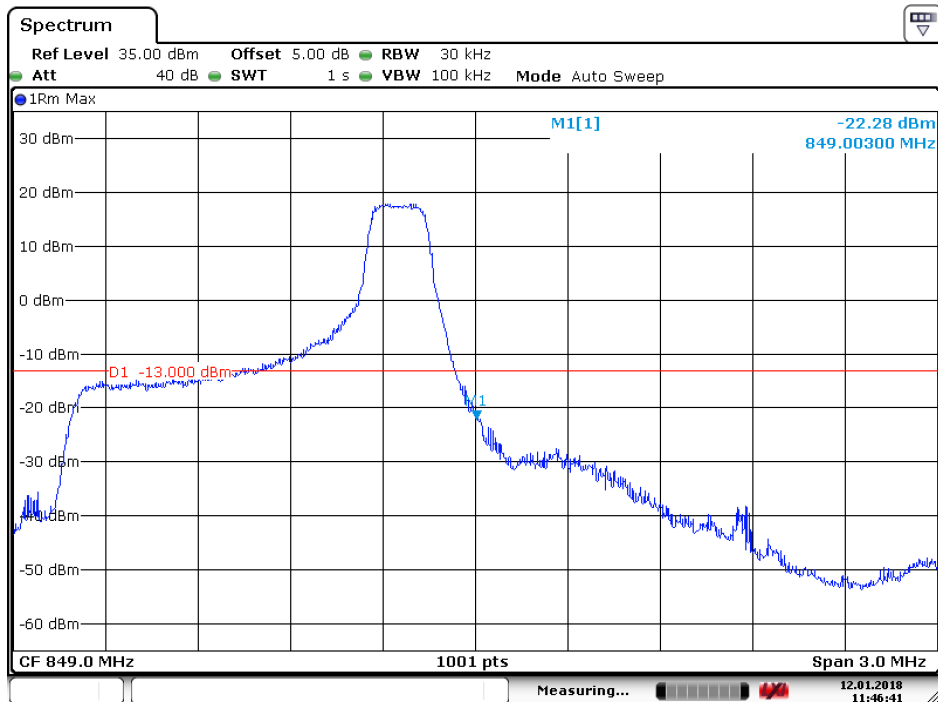
5.1.1.1.2 Test RB=6RB



Date: 12.JAN.2018 11:48:37

5.1.1.1.2 Test Channel = HCH

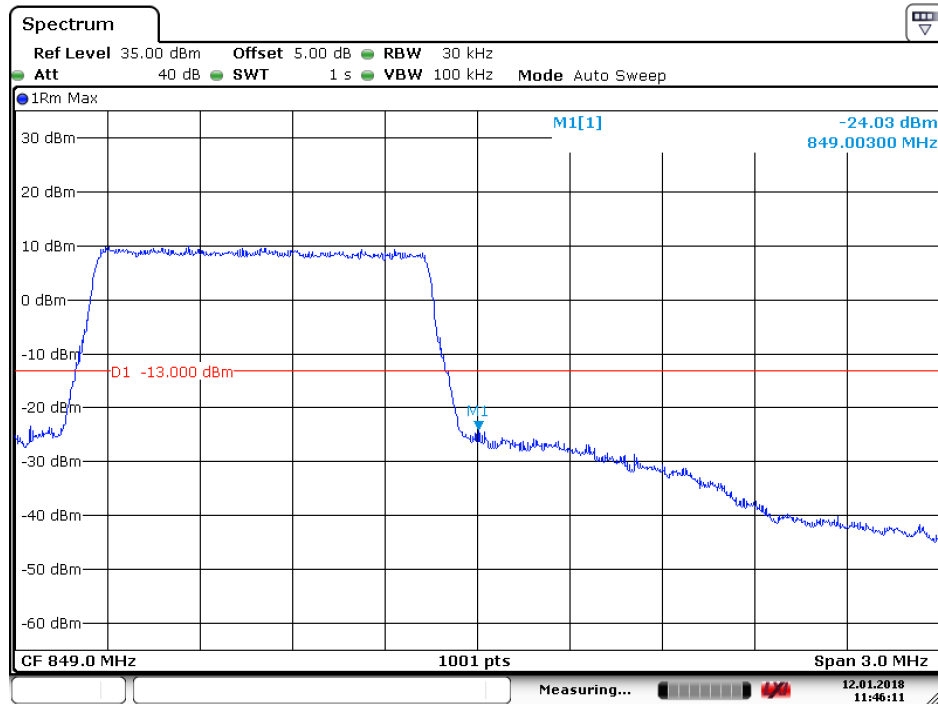
5.1.1.1.2.1 Test RB=1RB



Date: 12.JAN.2018 11:46:41



5.1.1.2.2 Test RB=6RB

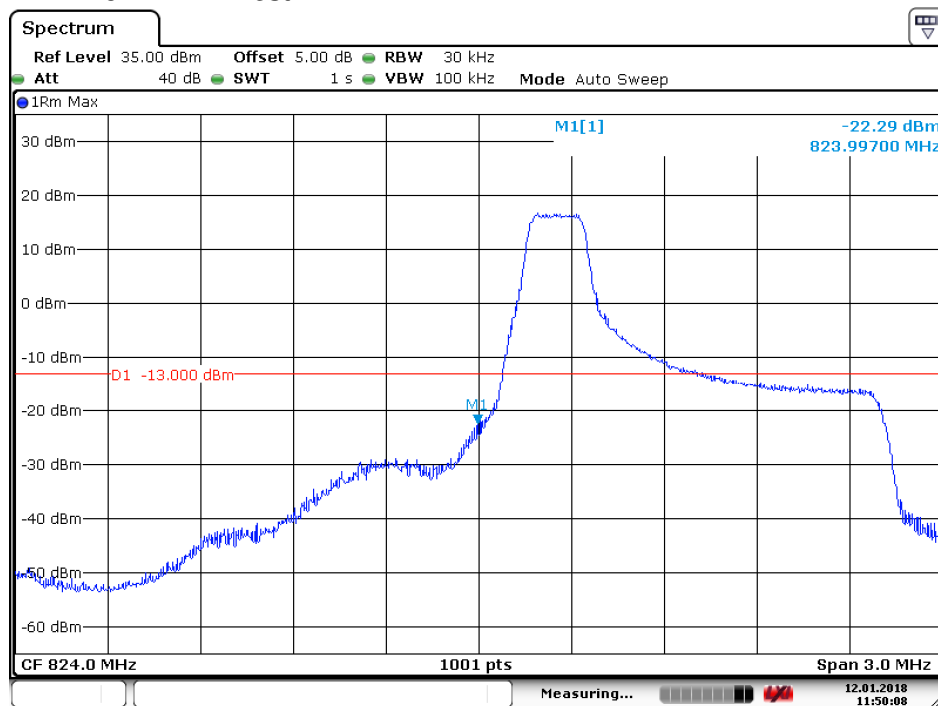


Date: 12.JAN.2018 11:46:11

5.1.1.2 Test Mode = LTE/TM2 1.4MHz

5.1.1.2.1 Test Channel = LCH

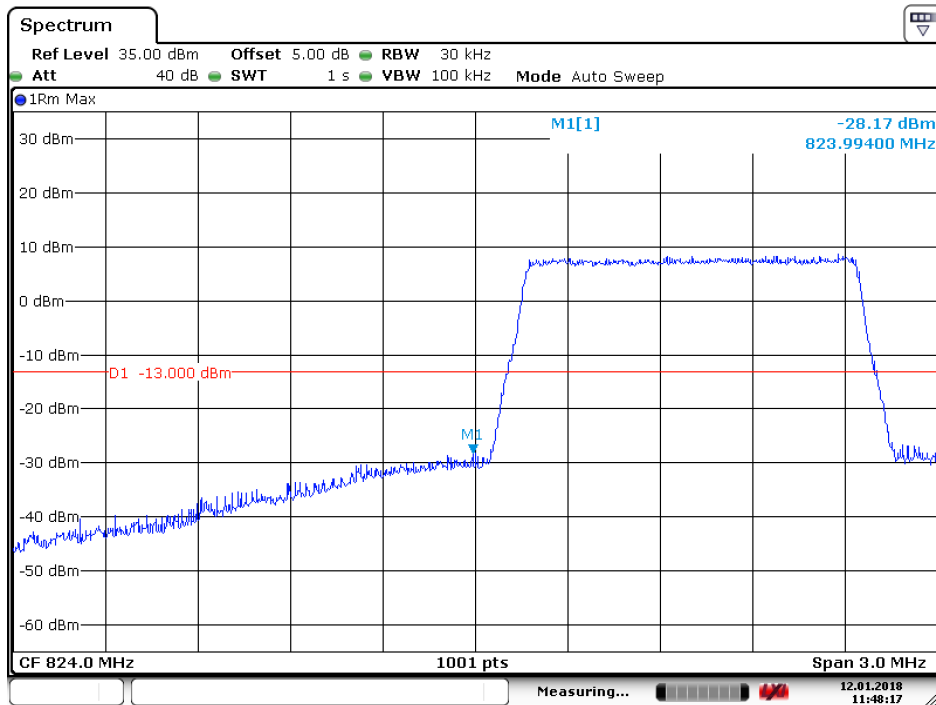
5.1.1.2.1.1 Test RB=1RB



Date: 12.JAN.2018 11:50:09



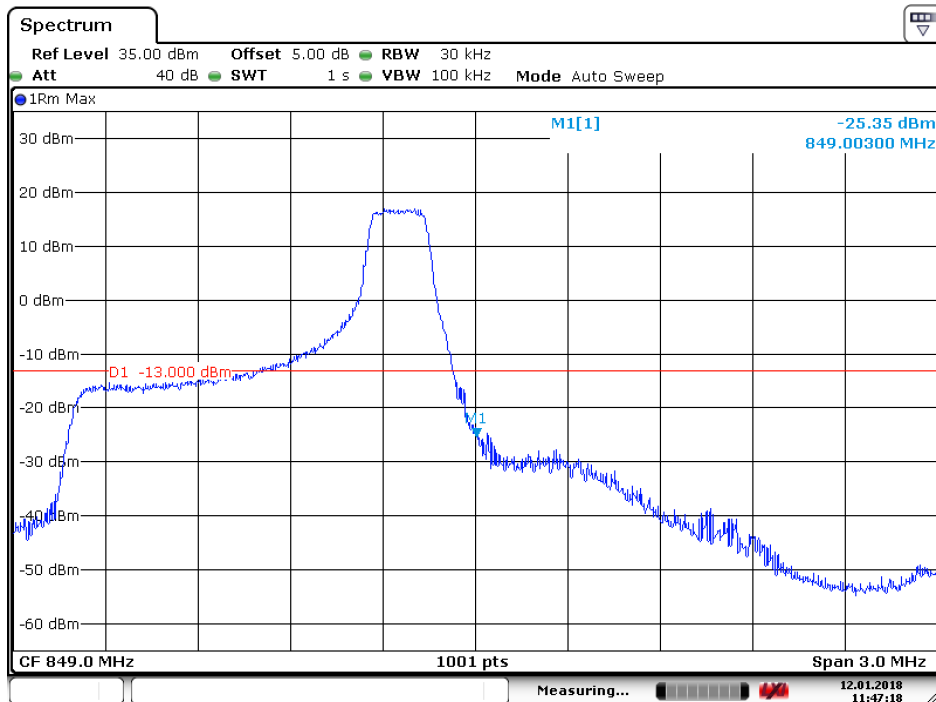
5.1.1.2.1.2 Test RB=6RB



Date: 12.JAN.2018 11:48:17

5.1.1.2.2 Test Channel = HCH

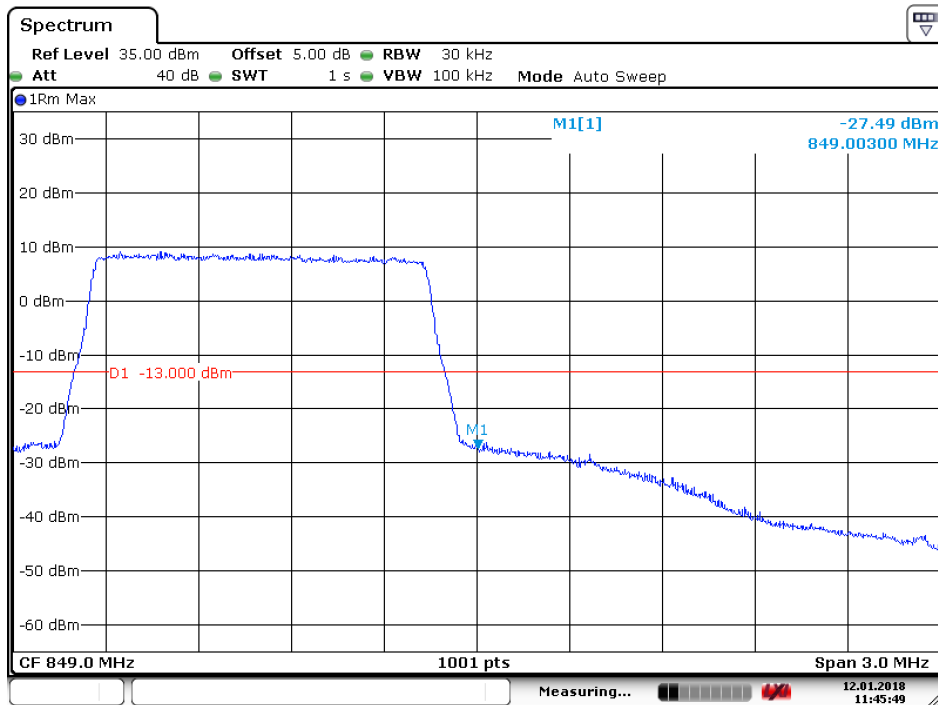
5.1.1.2.2.1 Test RB=1RB



Date: 12.JAN.2018 11:47:18



5.1.1.2.2.2 Test RB=6RB

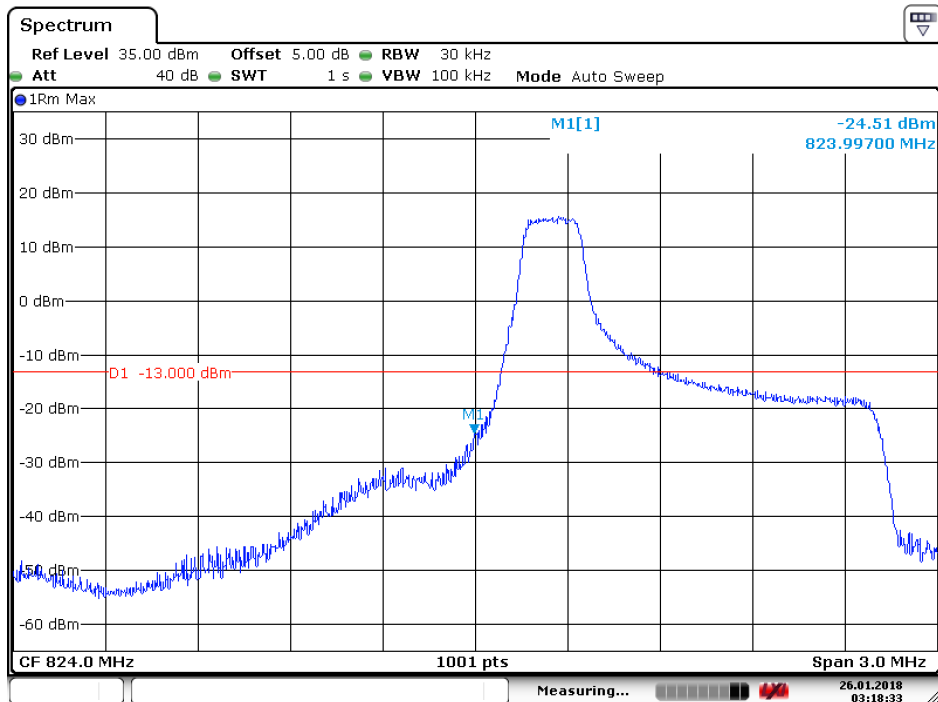


Date: 12.JAN.2018 11:45:49

5.1.1.3 Test Mode = LTE/TM3 1.4MHz

5.1.1.3.1 Test Channel = LCH

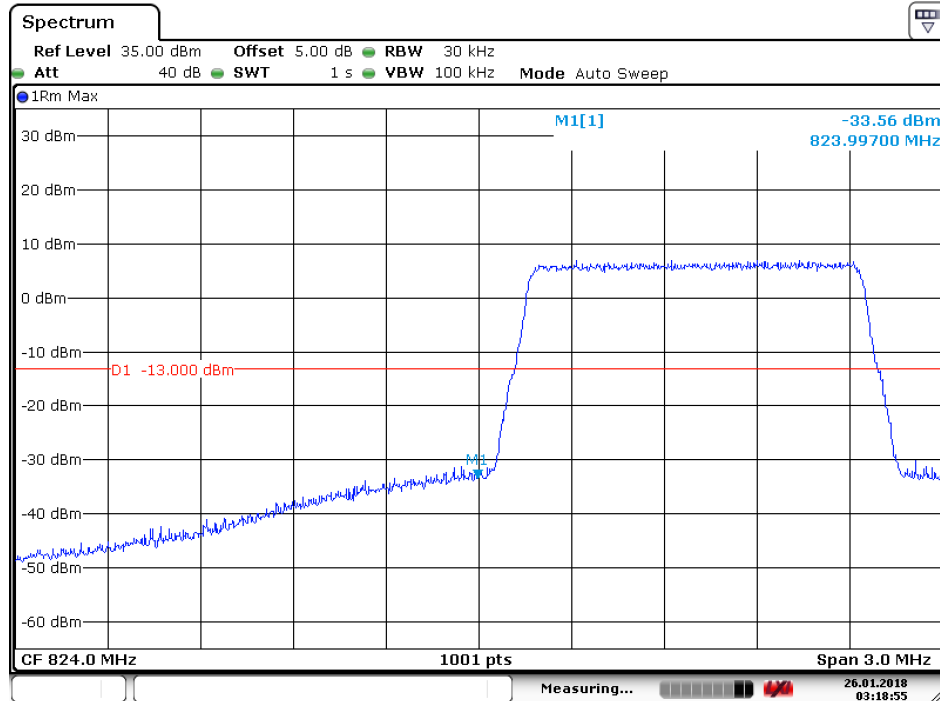
5.1.1.3.1.1 Test RB=1RB



Date: 26.JAN.2018 03:18:34



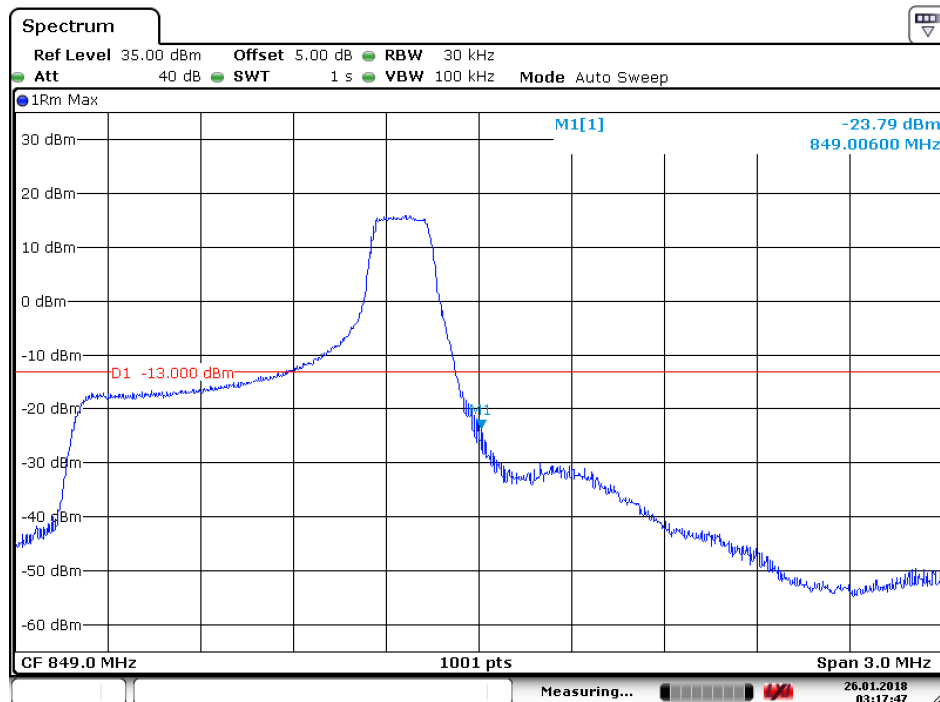
5.1.1.3.1.2 Test RB=6RB



Date: 26.JAN.2018 03:18:54

5.1.1.3.2 Test Channel = HCH

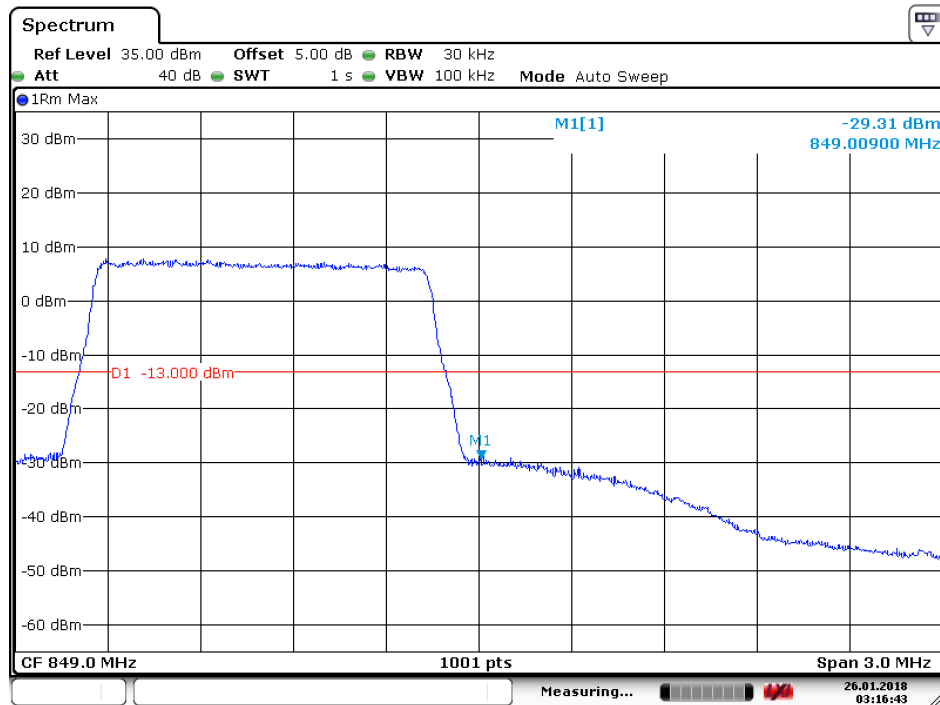
5.1.1.3.2.1 Test RB=1RB



Date: 26.JAN.2018 03:17:47



5.1.1.3.2.2 Test RB=6RB

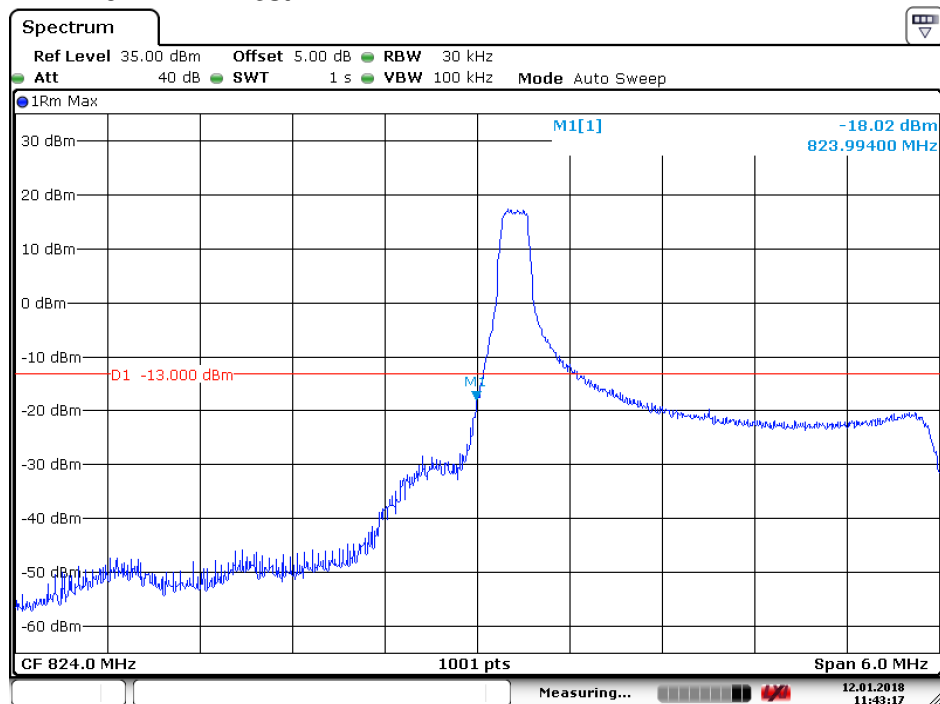


Date: 26.JAN.2018 03:16:43

5.1.1.4 Test Mode = LTE/TM1 3MHz

5.1.1.4.1 Test Channel = LCH

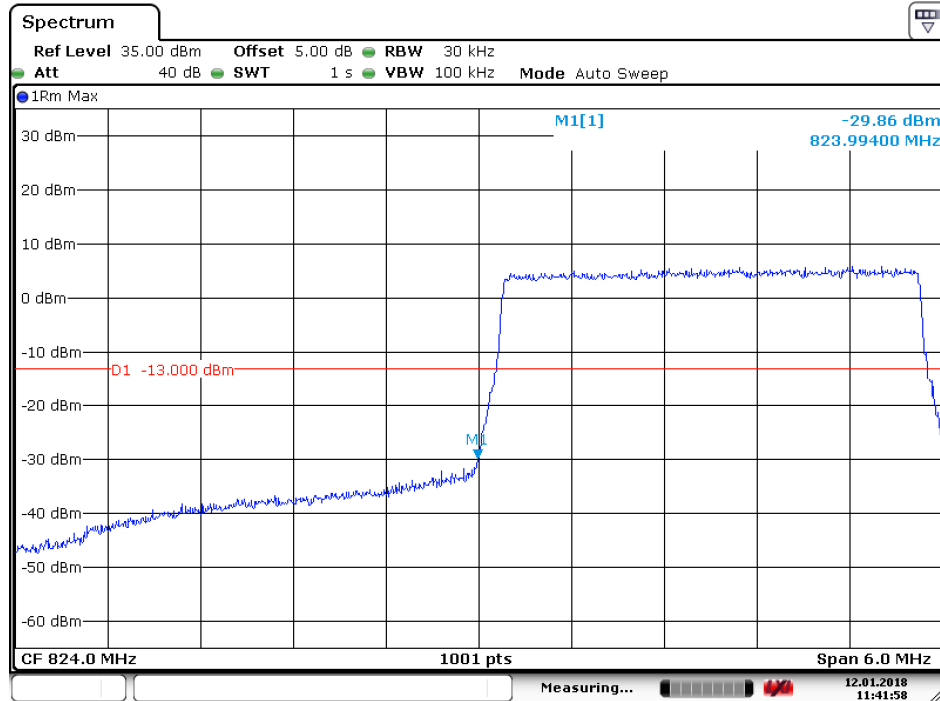
5.1.1.4.1.1 Test RB=1RB



Date: 12.JAN.2018 11:43:17



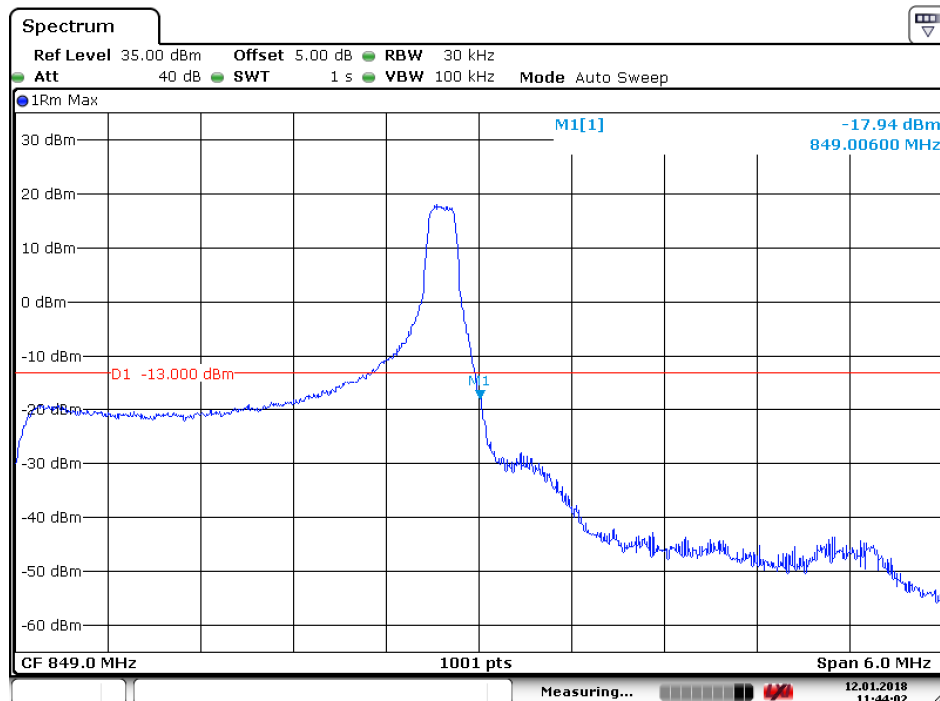
5.1.1.4.1.2 Test RB=15RB



Date: 12.JAN.2018 11:41:58

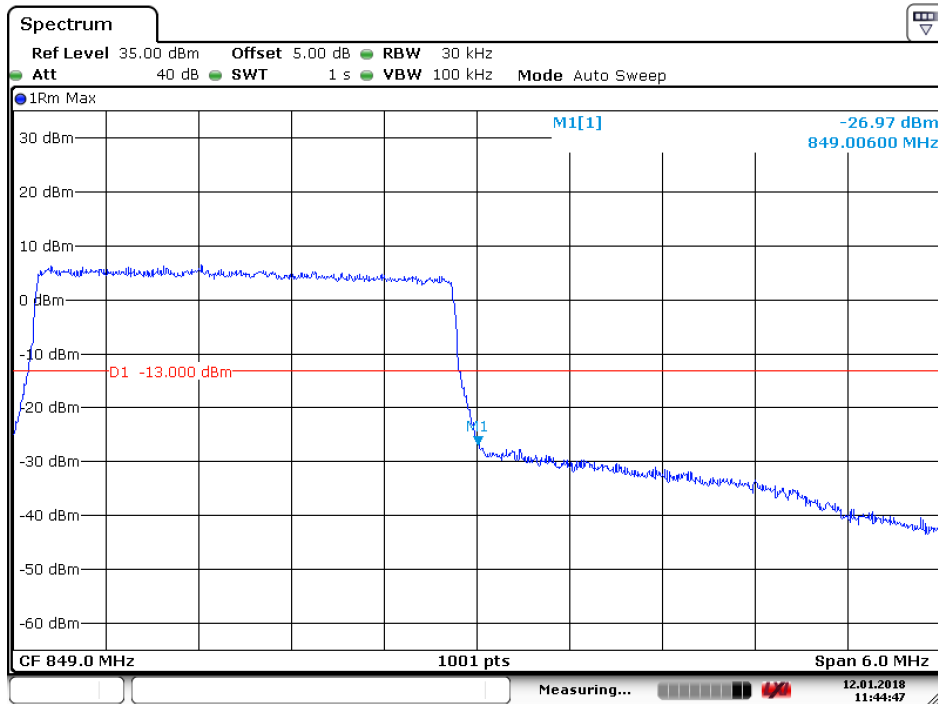
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 12.JAN.2018 11:44:03

5.1.1.4.2.2 Test RB=15RB

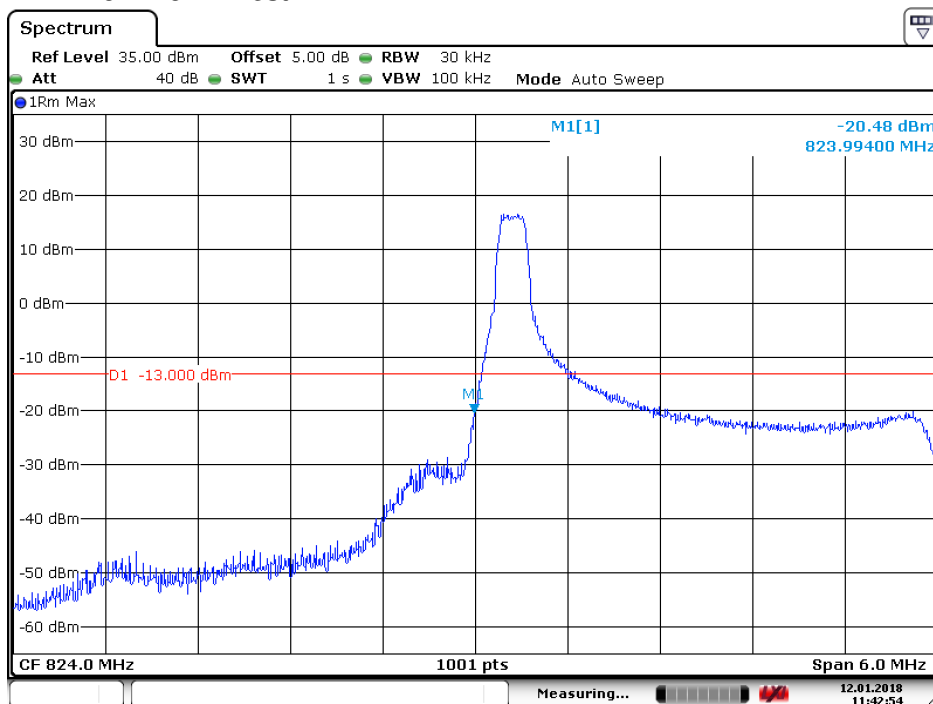


Date: 12.JAN.2018 11:44:48

5.1.1.5 Test Mode = LTE/TM2 3MHz

5.1.1.5.1 Test Channel = LCH

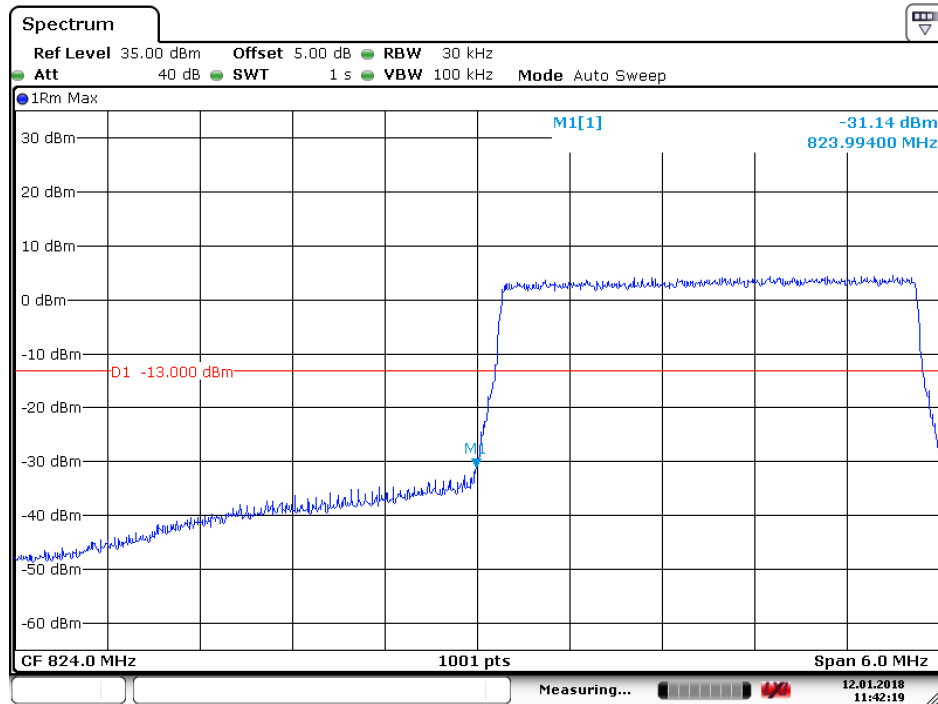
5.1.1.5.1.1 Test RB=1RB



Date: 12.JAN.2018 11:42:54



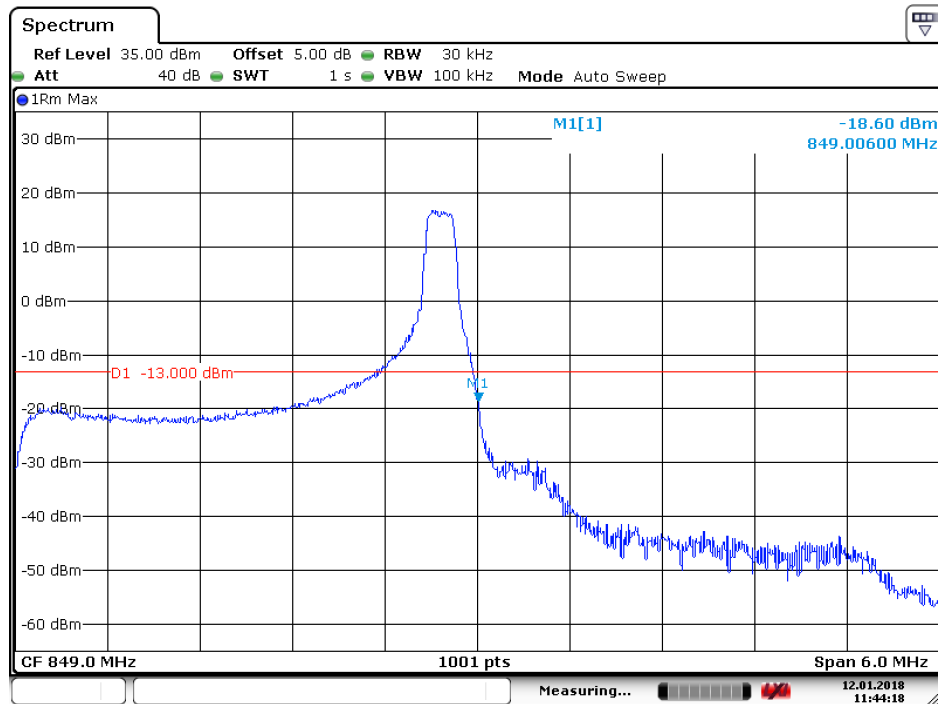
5.1.1.5.1.2 Test RB=15RB



Date: 12.JAN.2018 11:42:19

5.1.1.5.2 Test Channel = HCH

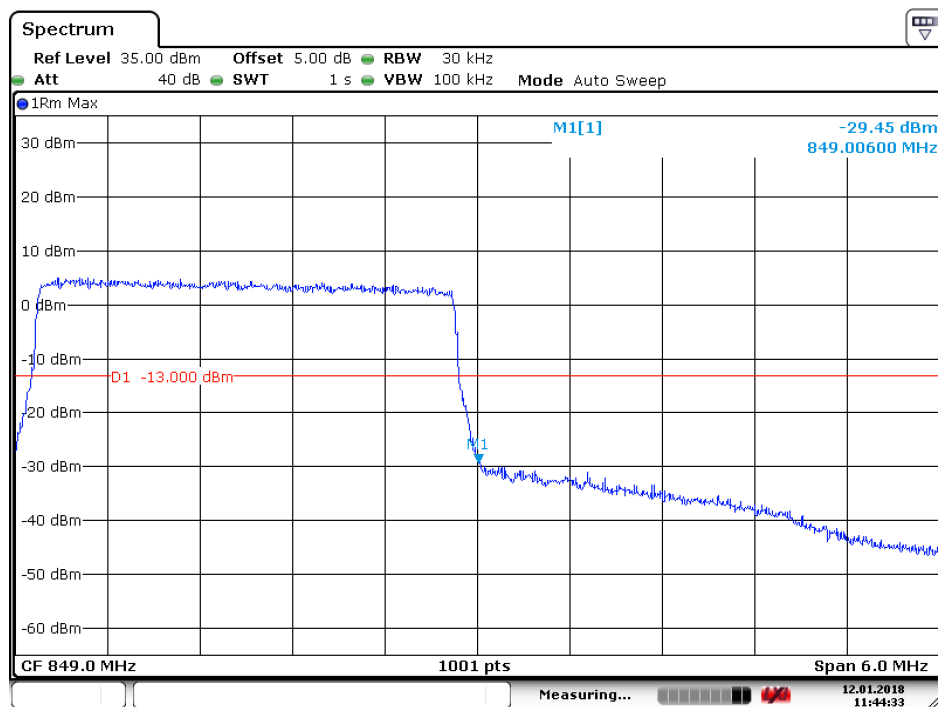
5.1.1.5.2.1 Test RB=1RB



Date: 12.JAN.2018 11:44:19



5.1.1.5.3 Test RB=15RB

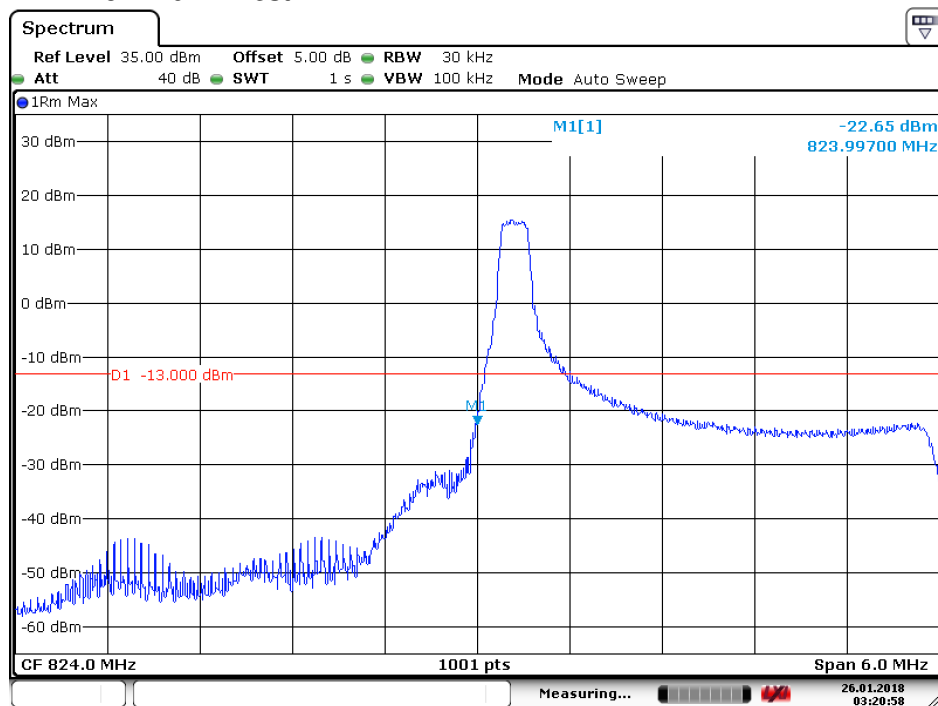


Date: 12.JAN.2018 11:44:33

5.1.1.6 Test Mode = LTE/TM3 3MHz

5.1.1.6.1 Test Channel = LCH

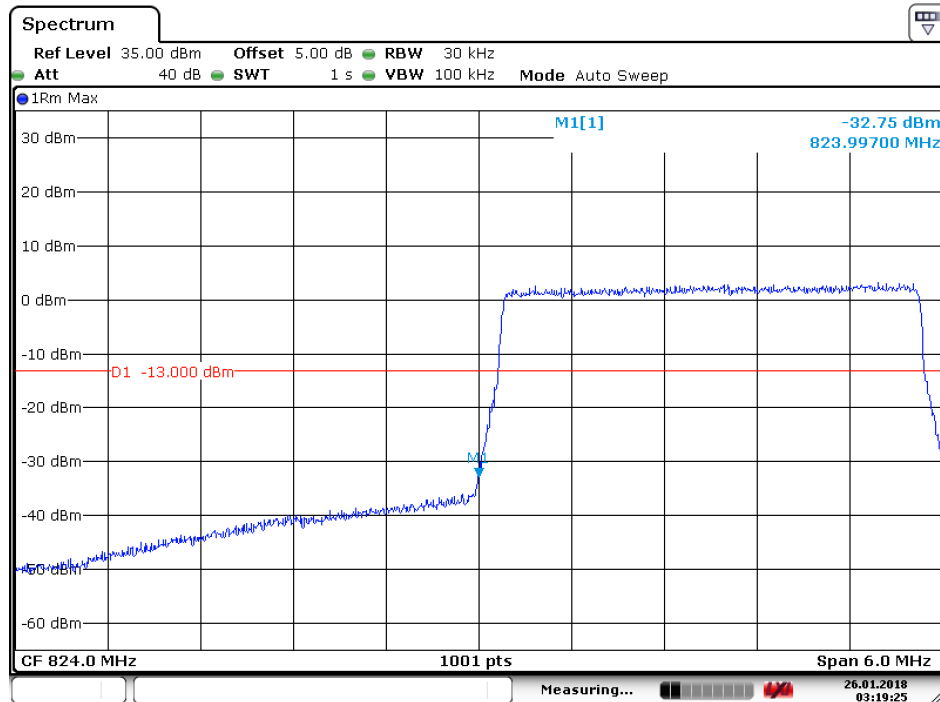
5.1.1.6.1.1 Test RB=1RB



Date: 26.JAN.2018 03:20:58



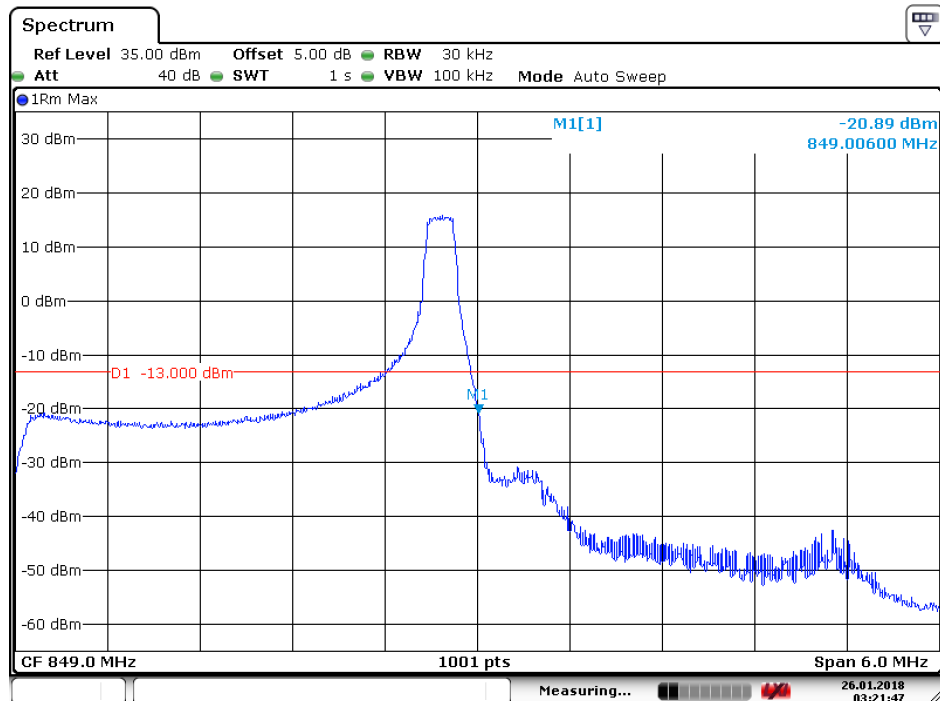
5.1.1.6.1.2 Test RB=15RB



Date: 26.JAN.2018 03:19:26

5.1.1.6.2 Test Channel = HCH

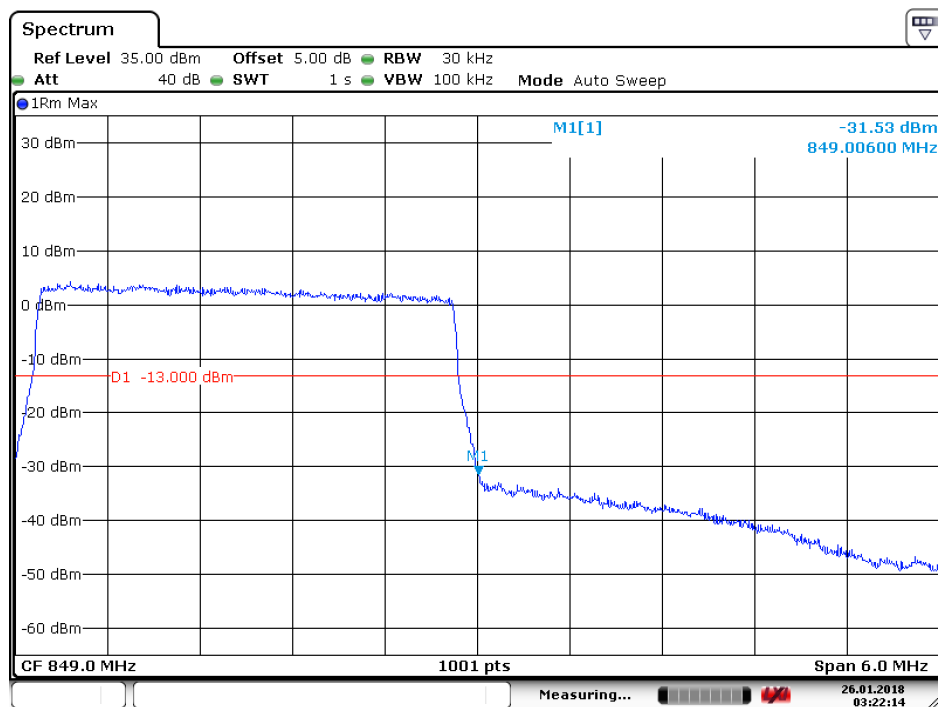
5.1.1.6.2.1 Test RB=1RB



Date: 26.JAN.2018 03:21:47



5.1.1.6.3 Test RB=15RB

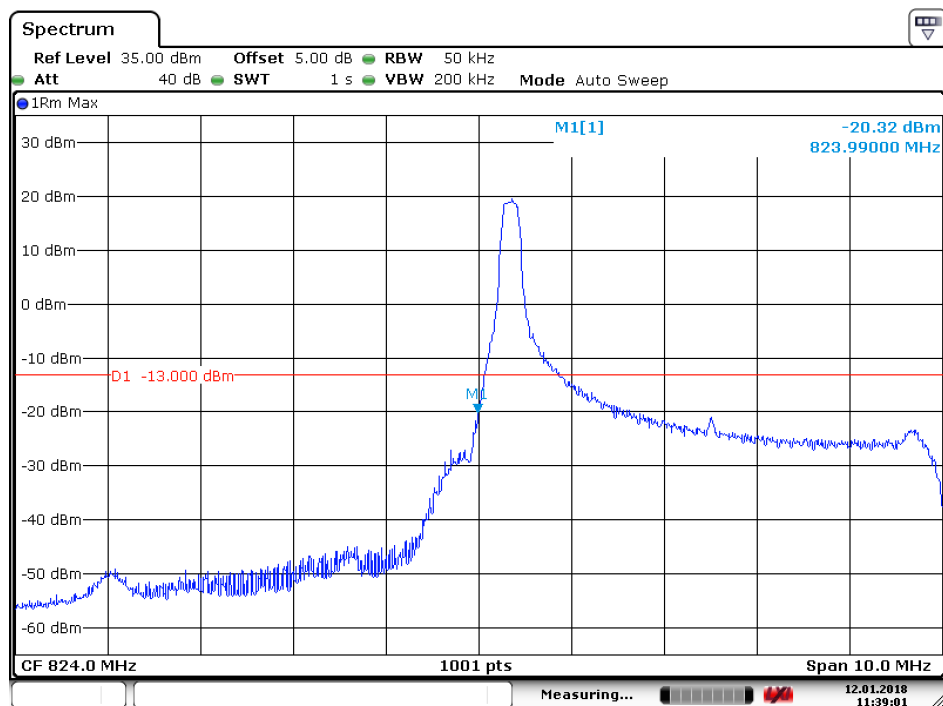


Date: 26.JAN.2018 03:22:15

5.1.1.7 Test Mode = LTE/TM1 5MHz

5.1.1.7.1 Test Channel = LCH

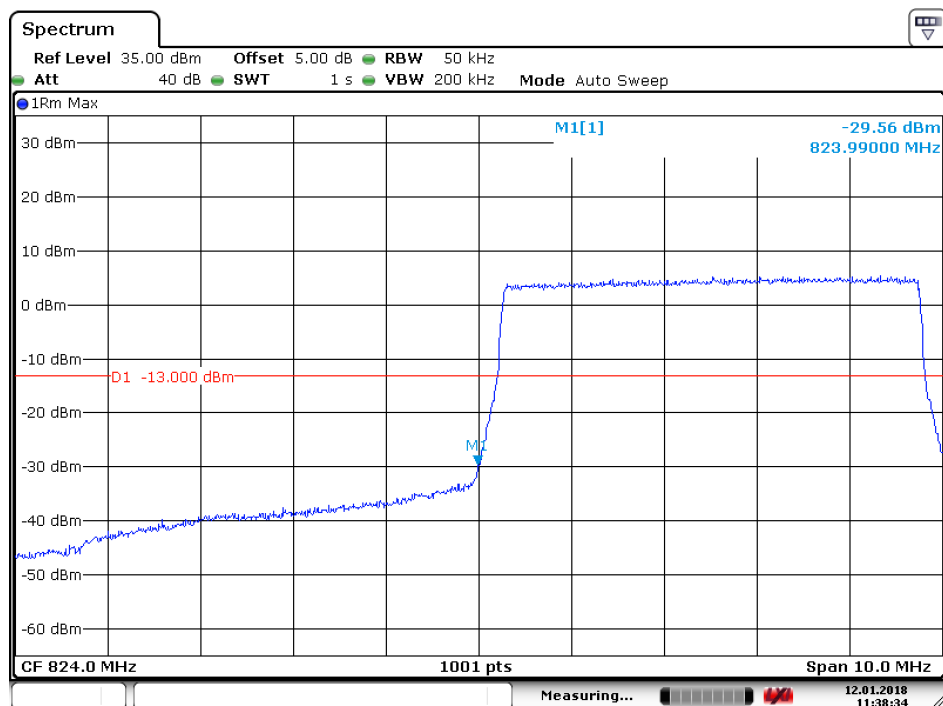
5.1.1.7.1.1 Test RB=1RB



Date: 12.JAN.2018 11:39:01



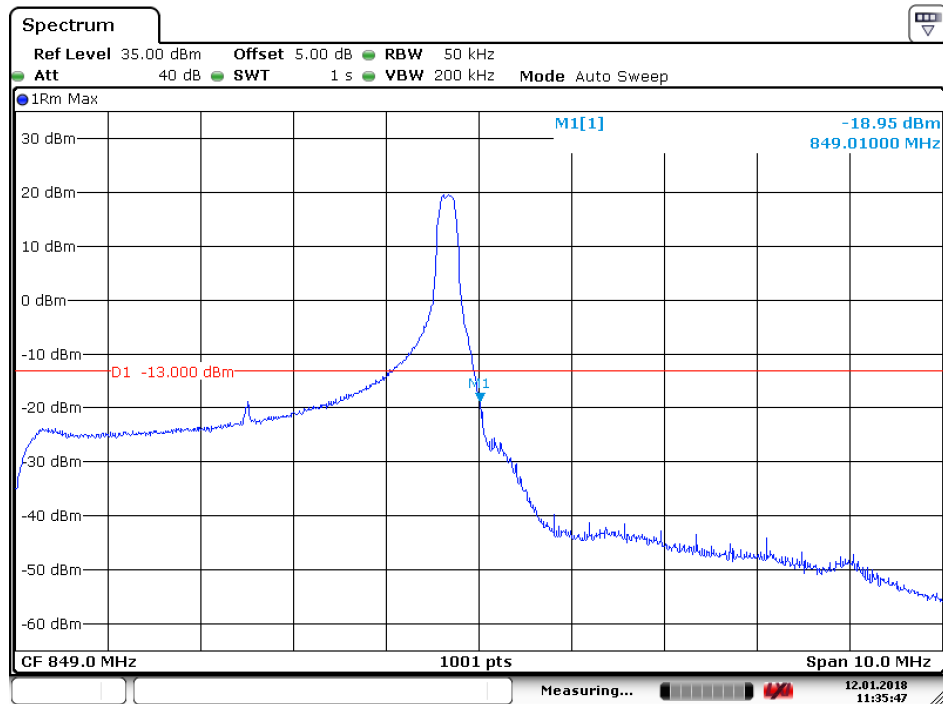
5.1.1.7.1.2 Test RB=25RB



Date: 12.JAN.2018 11:38:35

5.1.1.7.2 Test Channel = HCH

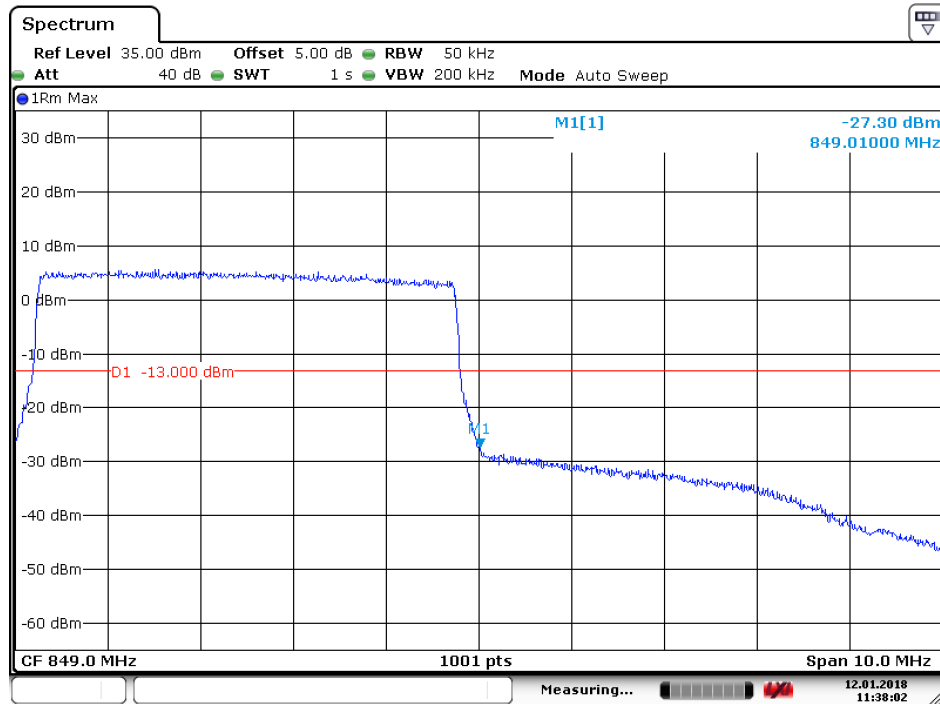
5.1.1.7.2.1 Test RB=1RB



Date: 12.JAN.2018 11:35:48



5.1.1.7.2.2 Test RB=25RB

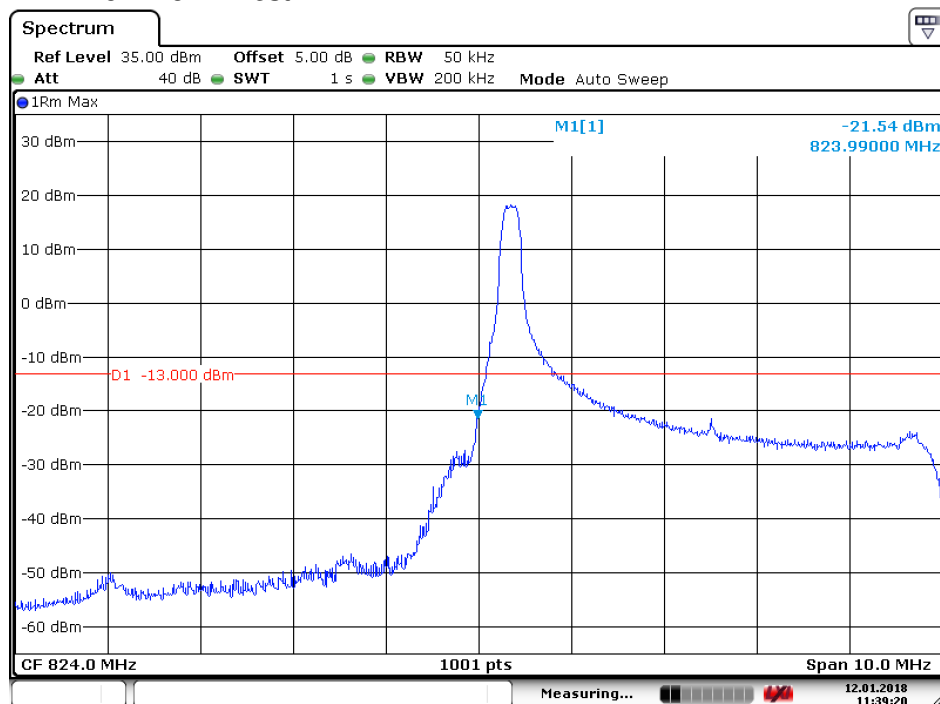


Date: 12.JAN.2018 11:38:03

5.1.1.8 Test Mode = LTE/TM2 5MHz

5.1.1.8.1 Test Channel = LCH

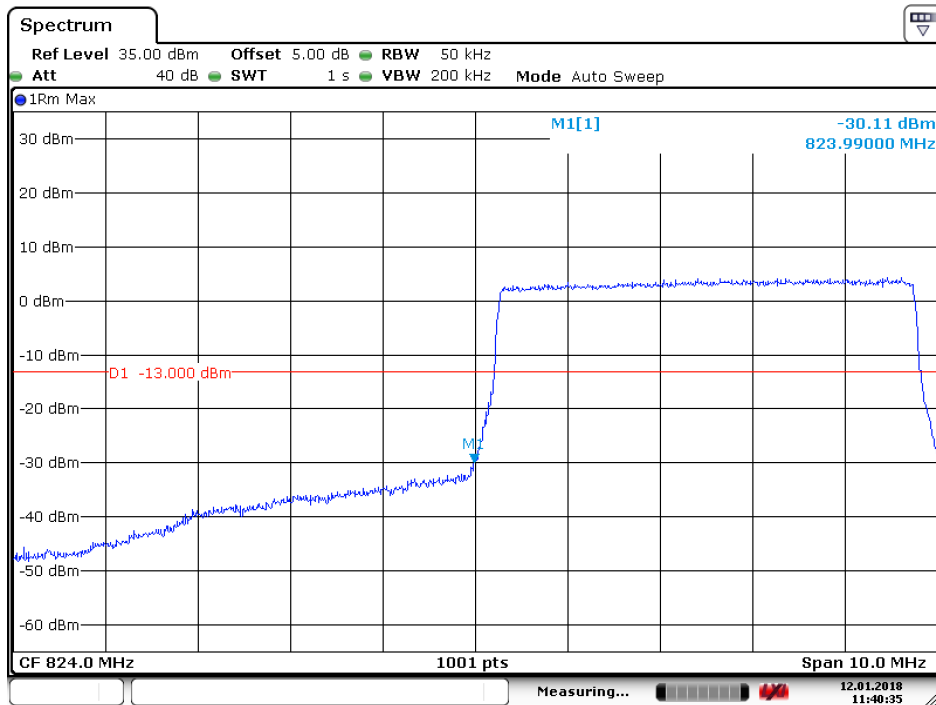
5.1.1.8.1.1 Test RB=1RB



Date: 12.JAN.2018 11:39:21



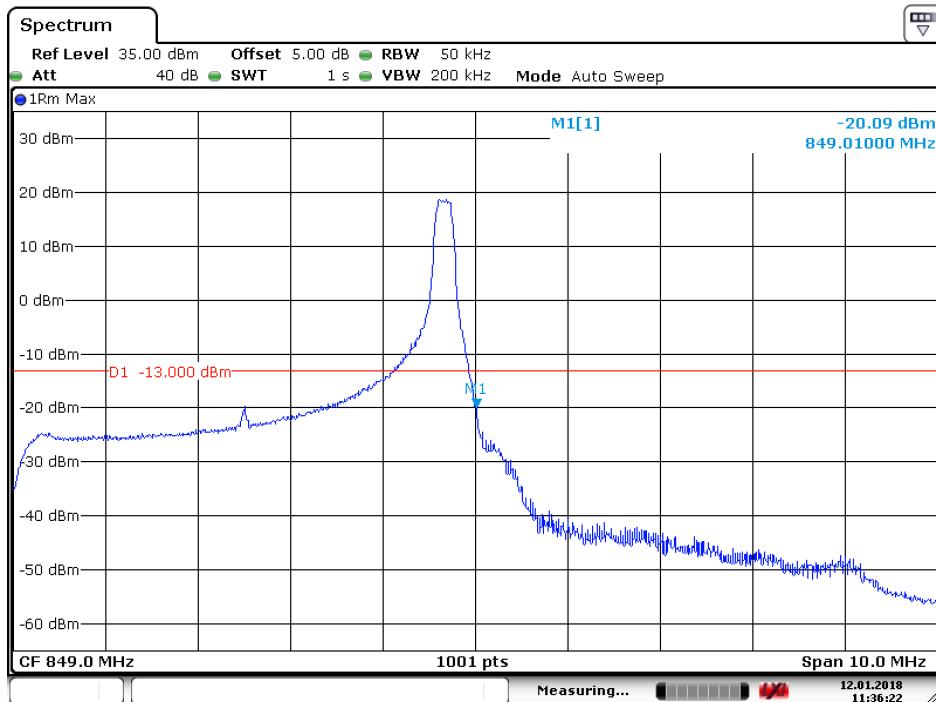
5.1.1.8.1.2 Test RB=25RB



Date: 12.JAN.2018 11:40:36

5.1.1.8.2 Test Channel = HCH

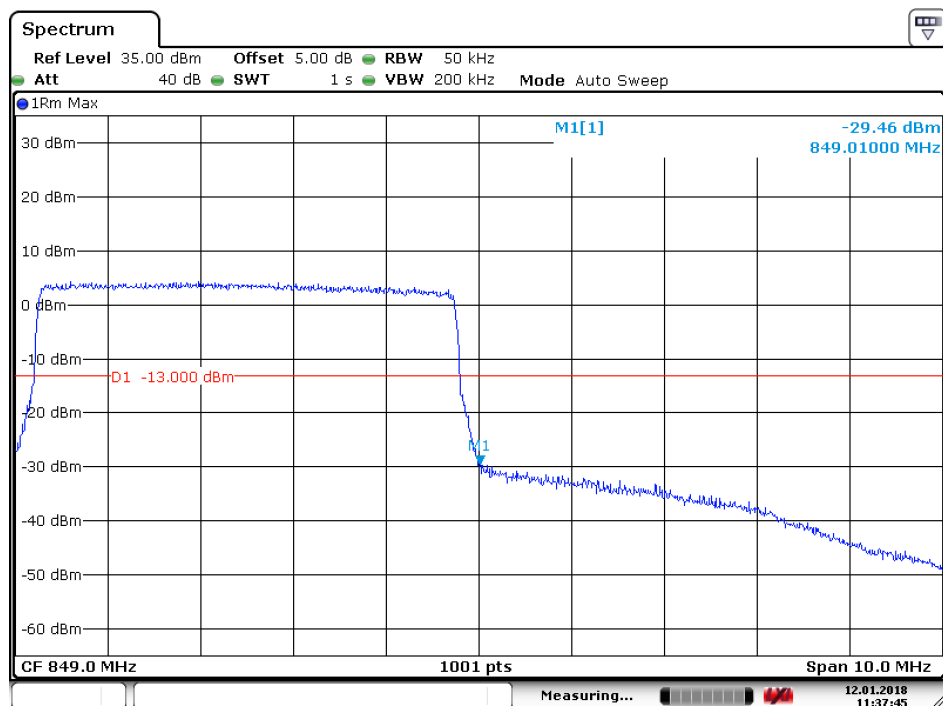
5.1.1.8.2.1 Test RB=1RB



Date: 12.JAN.2018 11:36:23



5.1.1.8.2.2 Test RB=25RB

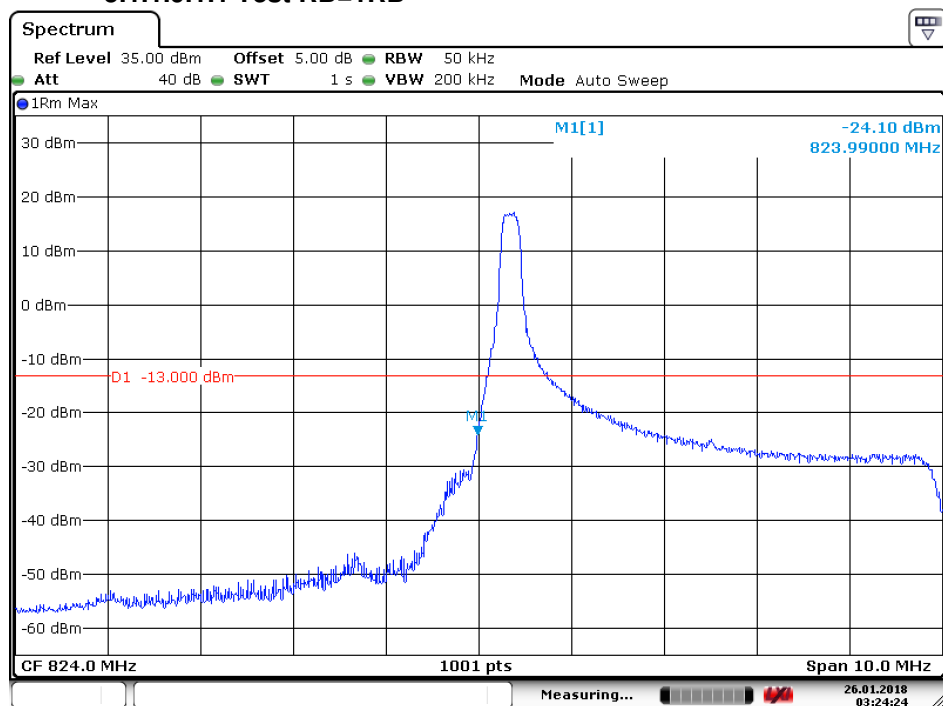


Date: 12.JAN.2018 11:37:46

5.1.1.9 Test Mode = LTE/TM3 5MHz

5.1.1.9.1 Test Channel = LCH

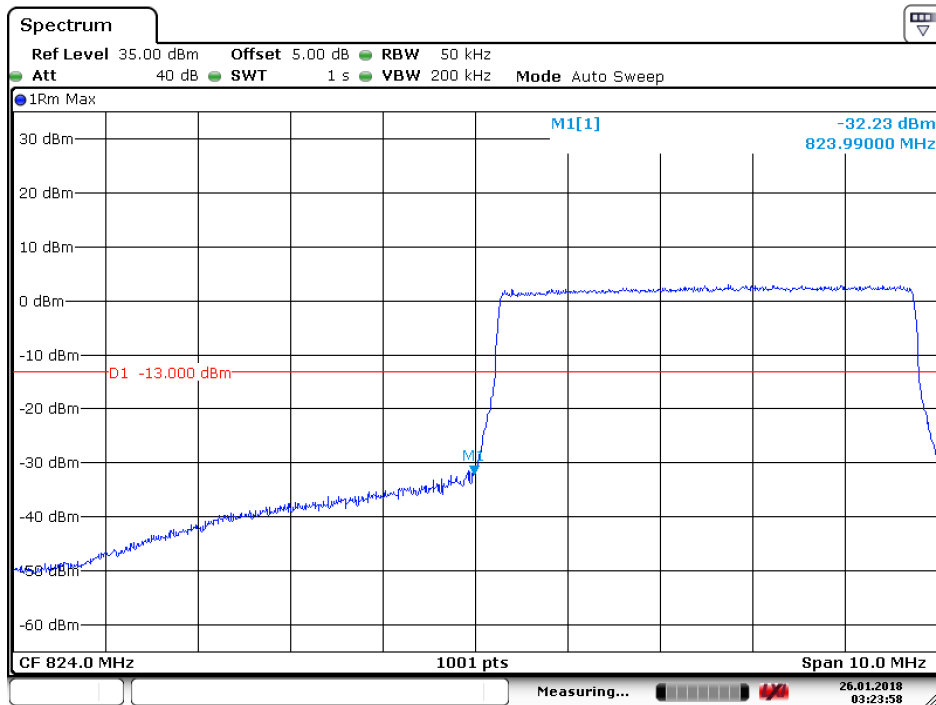
5.1.1.9.1.1 Test RB=1RB



Date: 26.JAN.2018 03:24:24



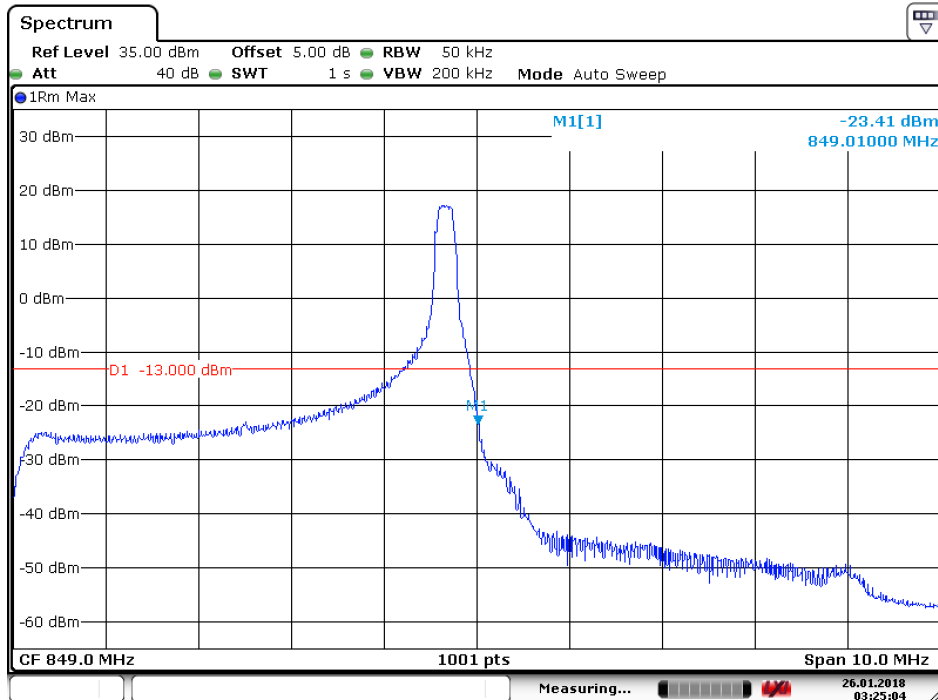
5.1.1.9.1.2 Test RB=25RB



Date: 26.JAN.2018 03:23:58

5.1.1.9.2 Test Channel = HCH

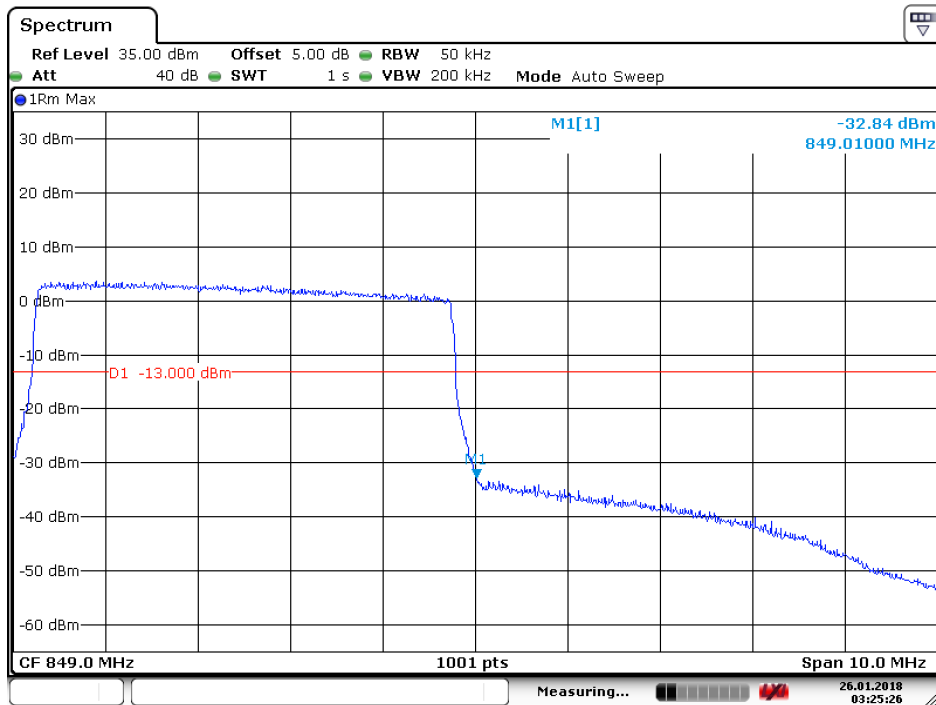
5.1.1.9.2.1 Test RB=1RB



Date: 26.JAN.2018 03:25:04



5.1.1.9.2.2 Test RB=25RB

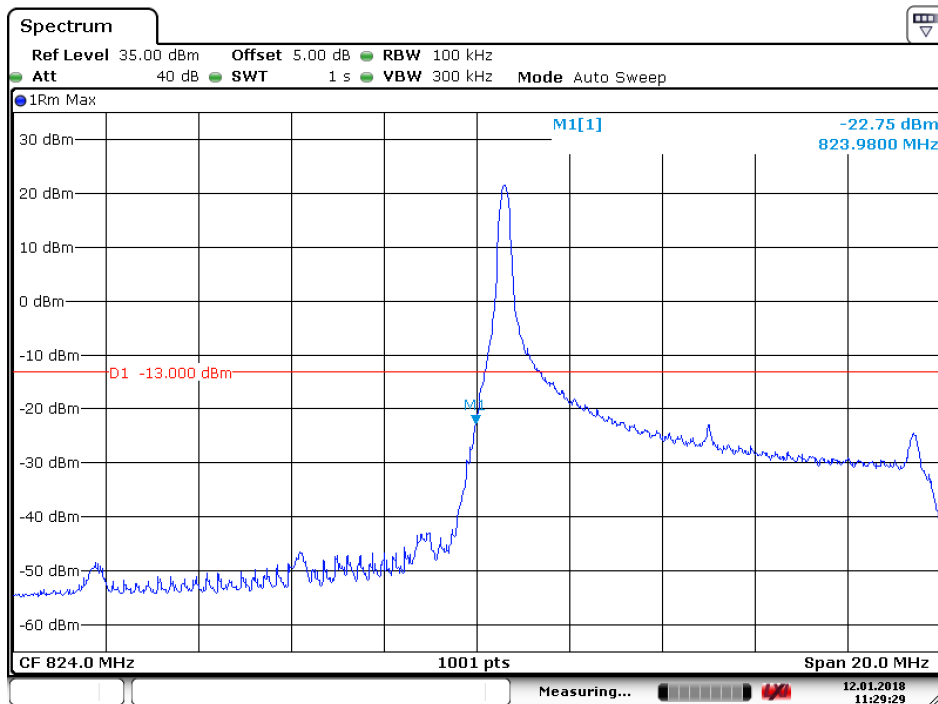


Date: 26.JAN.2018 03:25:26

5.1.1.10 Test Mode = LTE/TM1 10MHz

5.1.1.10.1 Test Channel = LCH

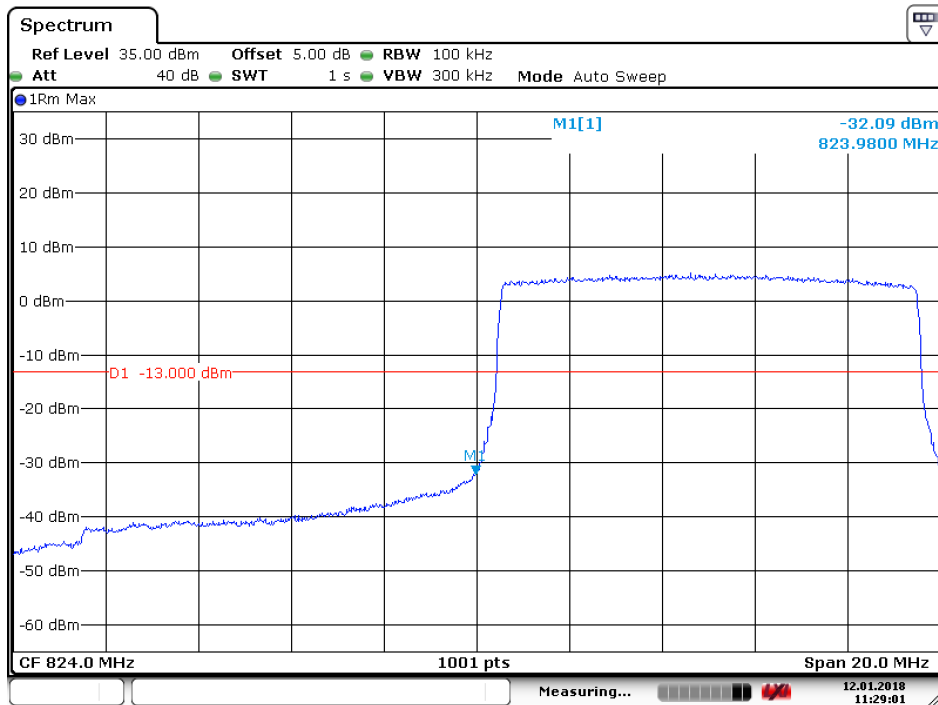
5.1.1.10.1.1 Test RB=1RB



Date: 12.JAN.2018 11:29:30



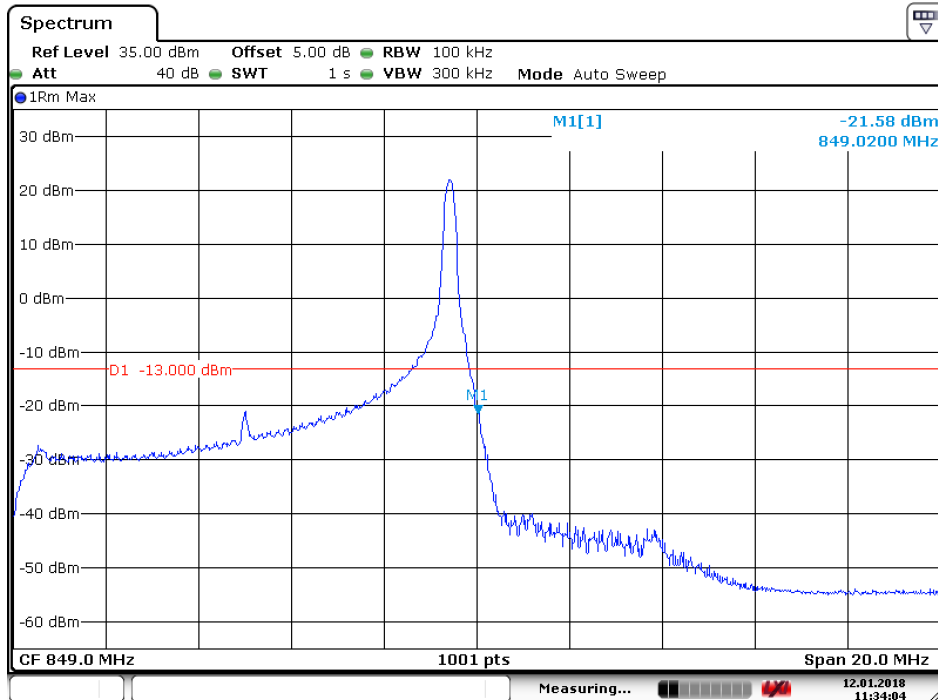
5.1.1.10.1.2 Test RB=50RB



Date: 12.JAN.2018 11:29:01

5.1.1.10.2 Test Channel = HCH

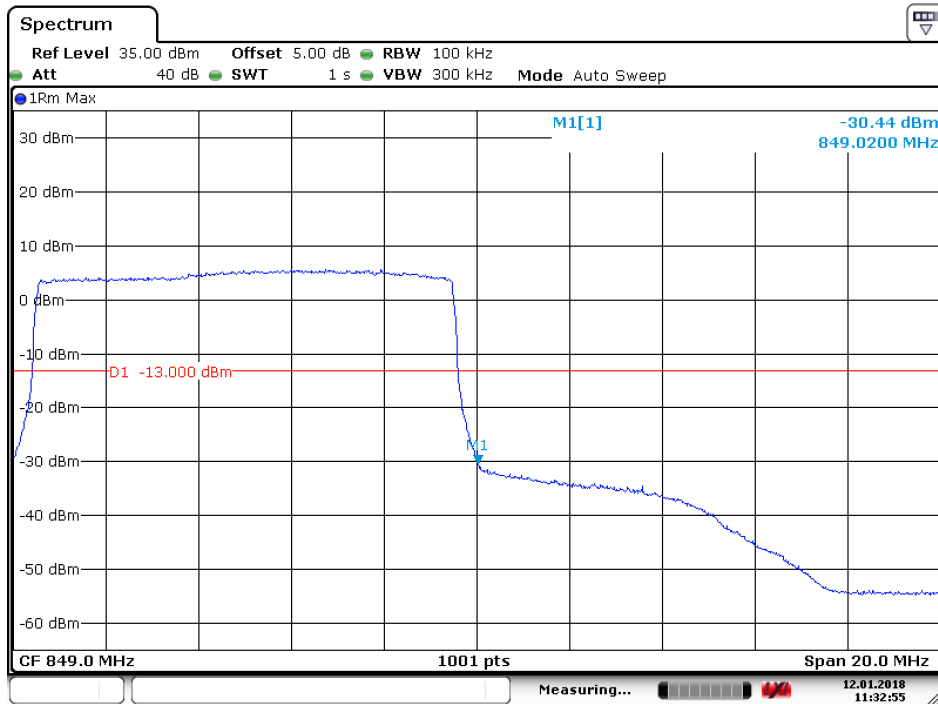
5.1.1.10.2.1 Test RB=1RB



Date: 12.JAN.2018 11:34:04



5.1.1.10.2.2 Test RB=50RB

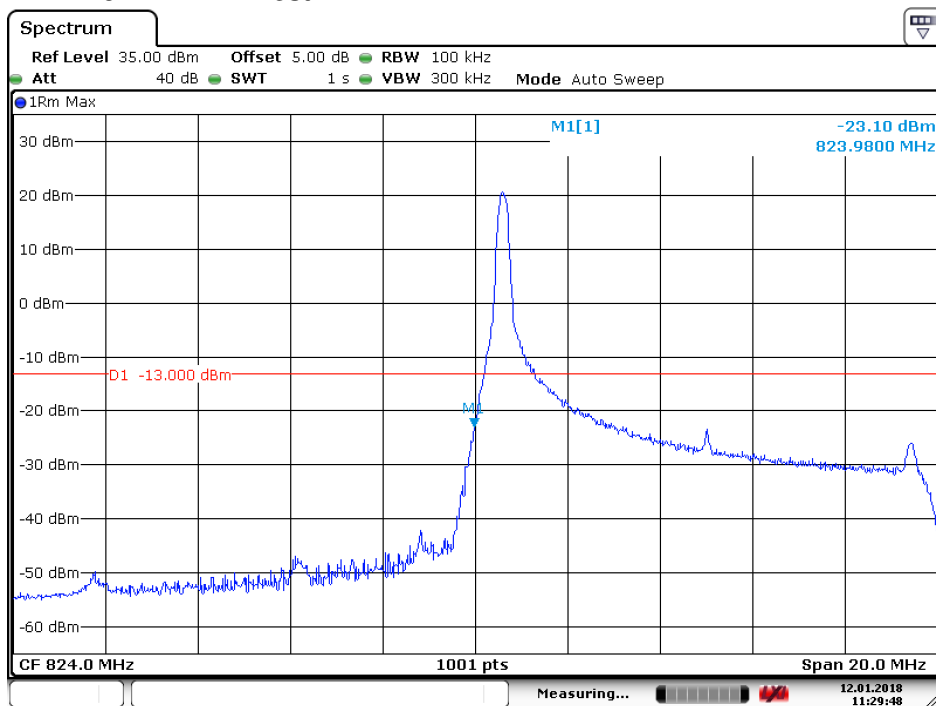


Date: 12.JAN.2018 11:32:56

5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

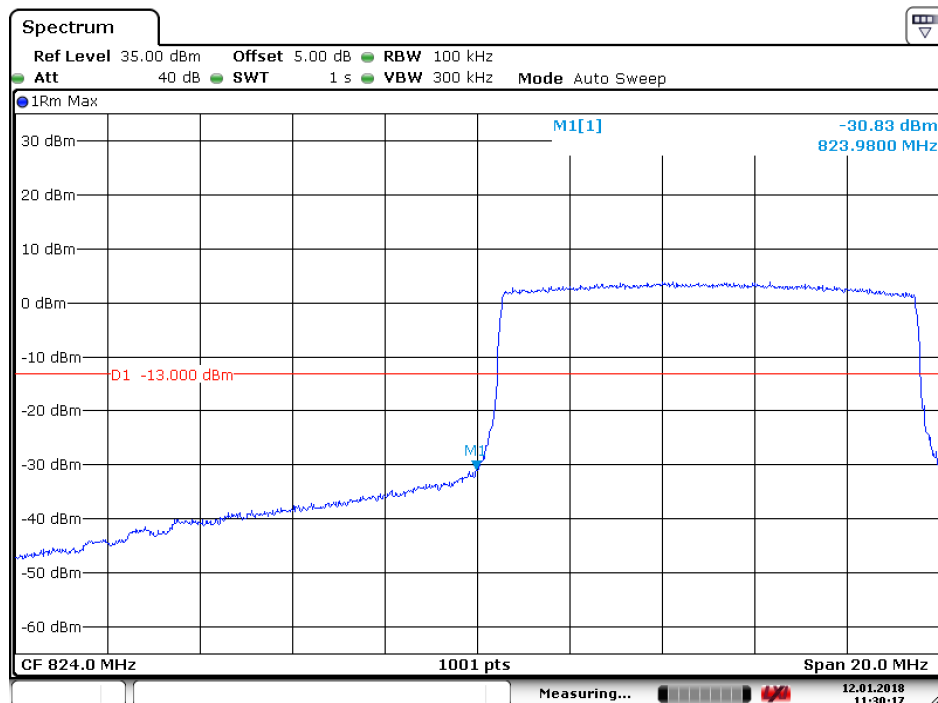
5.1.1.11.1.1 Test RB=1RB



Date: 12.JAN.2018 11:29:48



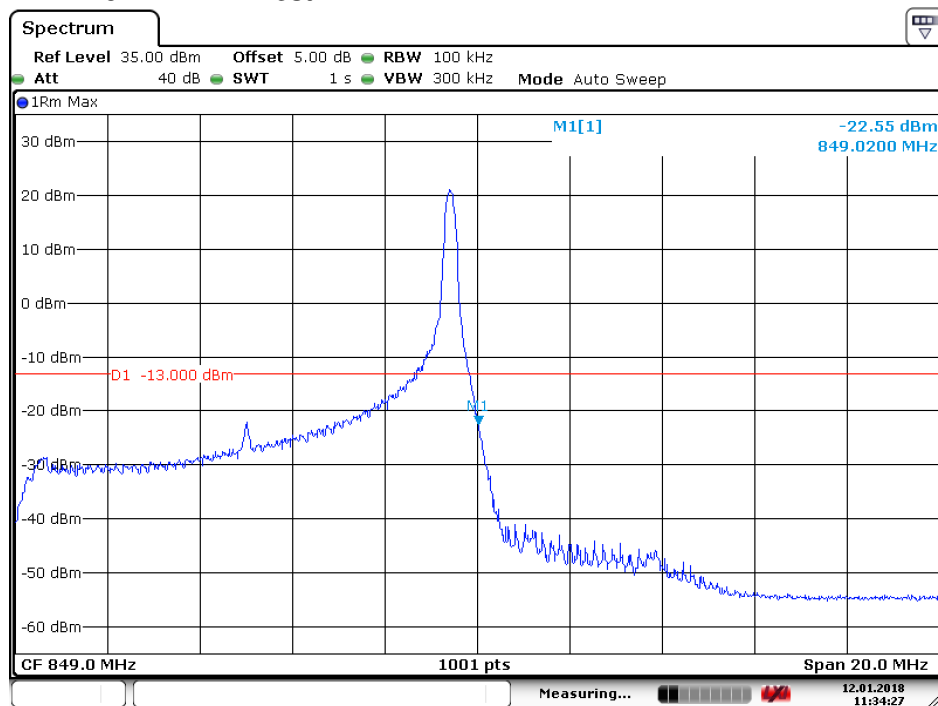
5.1.1.11.1.2 Test RB=50RB



Date: 12.JAN.2018 11:30:17

5.1.1.11.2 Test Channel = HCH

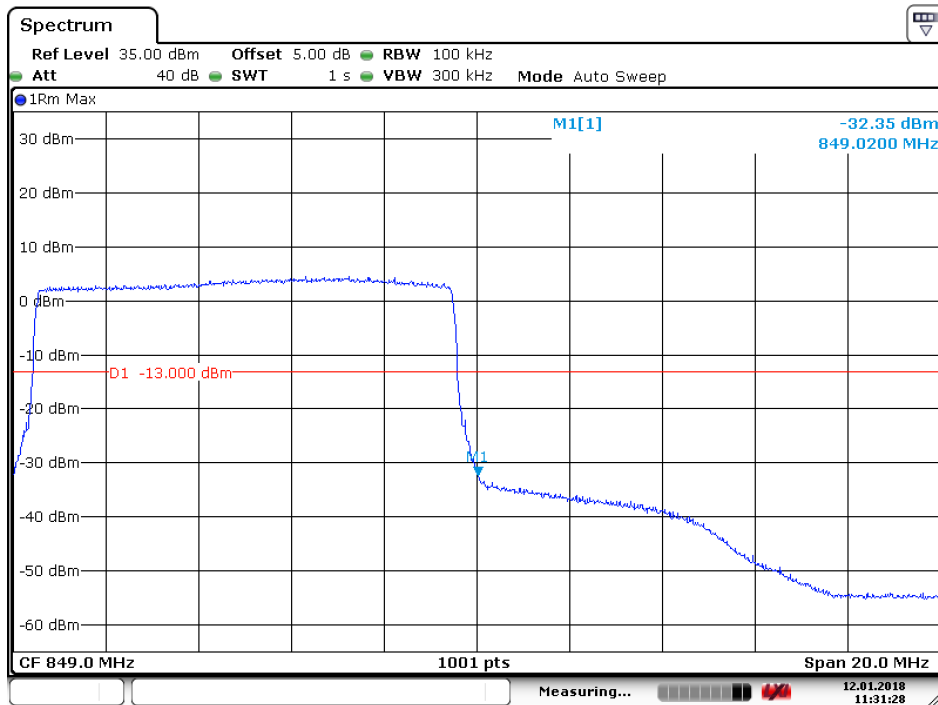
5.1.1.11.2.1 Test RB=1RB



Date: 12.JAN.2018 11:34:28



5.1.1.11.2.2 Test RB=50RB

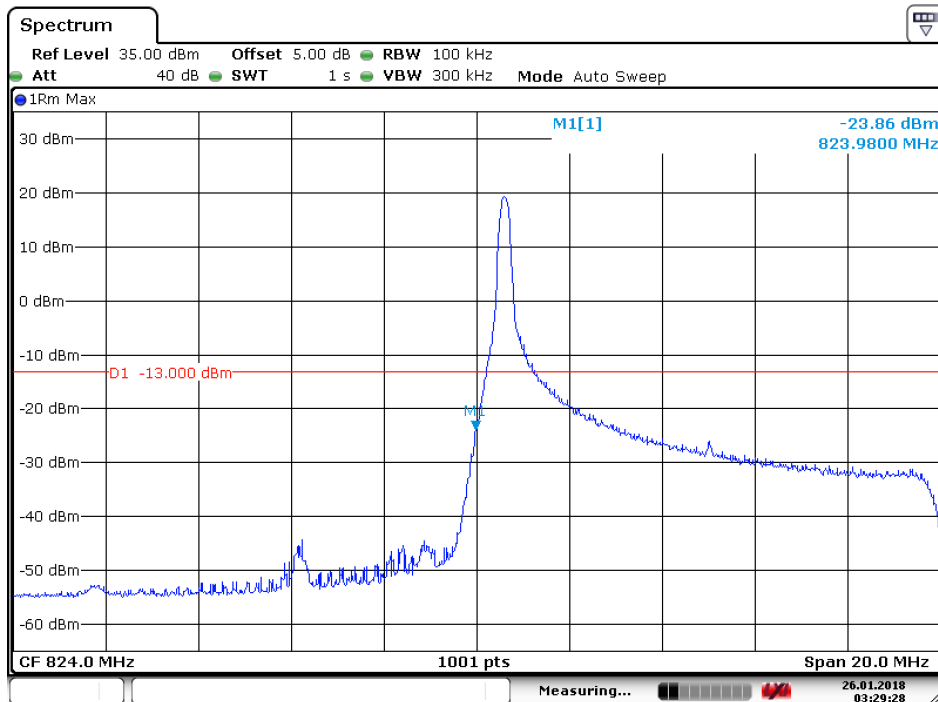


Date: 12.JAN.2018 11:31:28

5.1.1.12 Test Mode = LTE/TM3 10MHz

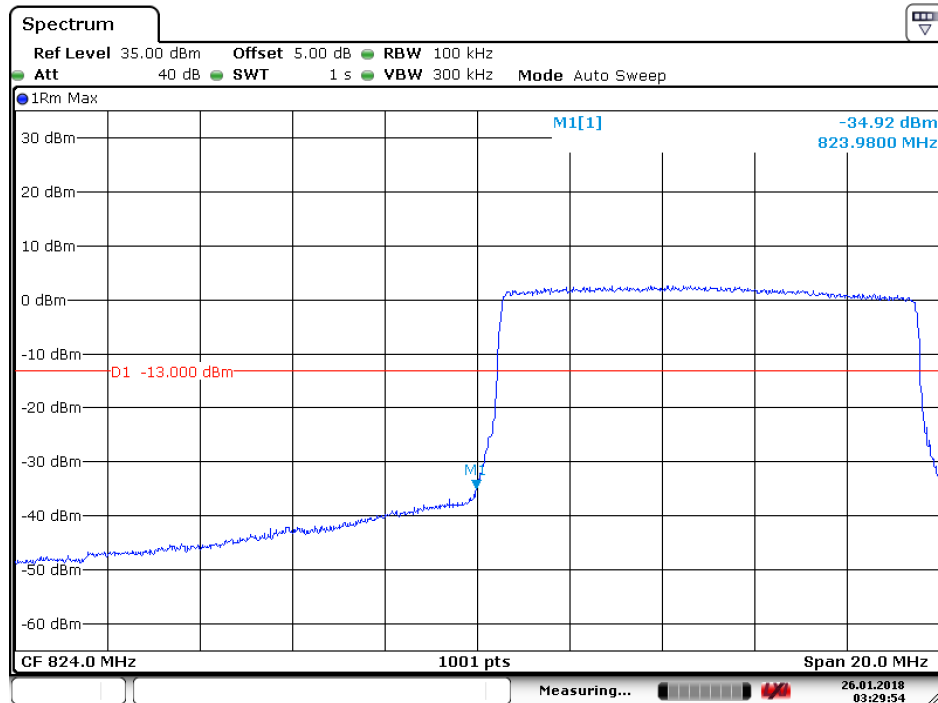
5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 26.JAN.2018 03:29:29

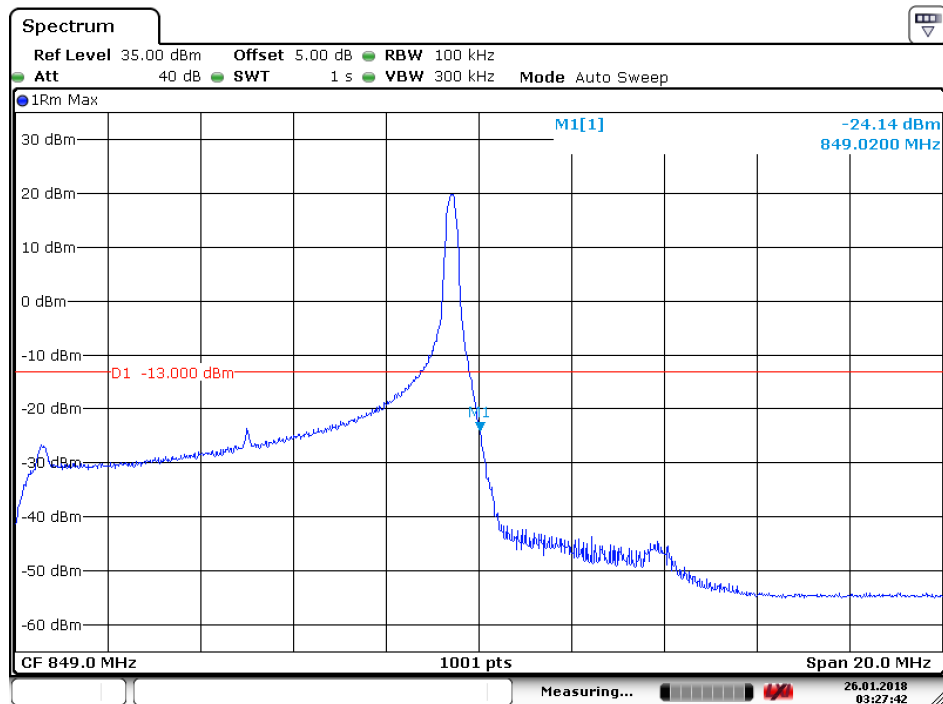
5.1.1.12.1.2 Test RB=50RB



Date: 26.JAN.2018 03:29:54

5.1.1.12.2 Test Channel = HCH

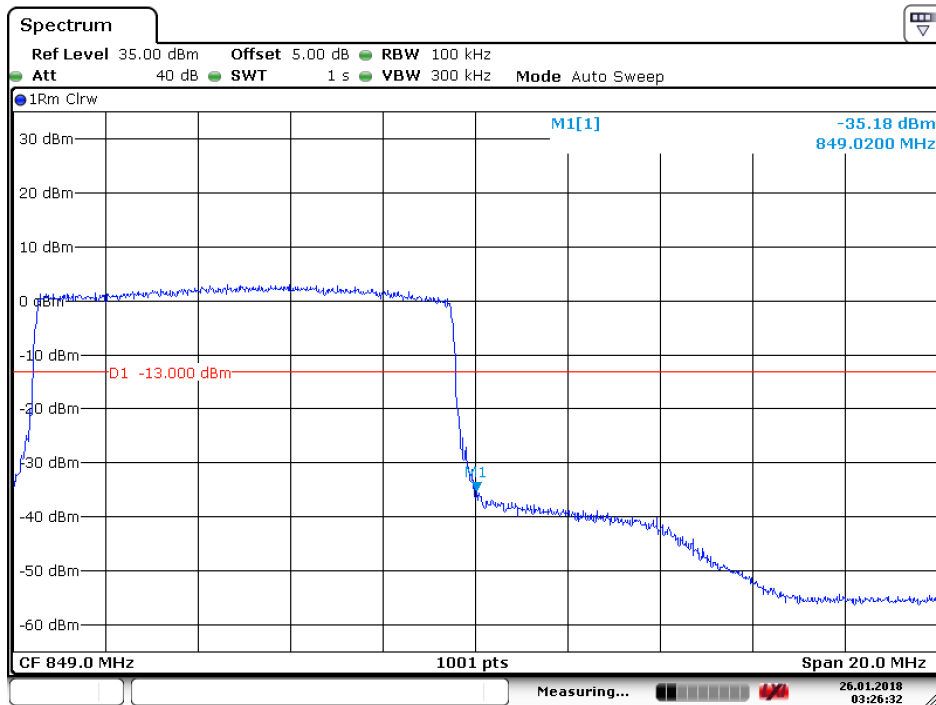
5.1.1.12.2.1 Test RB=1RB



Date: 26.JAN.2018 03:27:42



5.1.1.12.2 Test RB=50RB

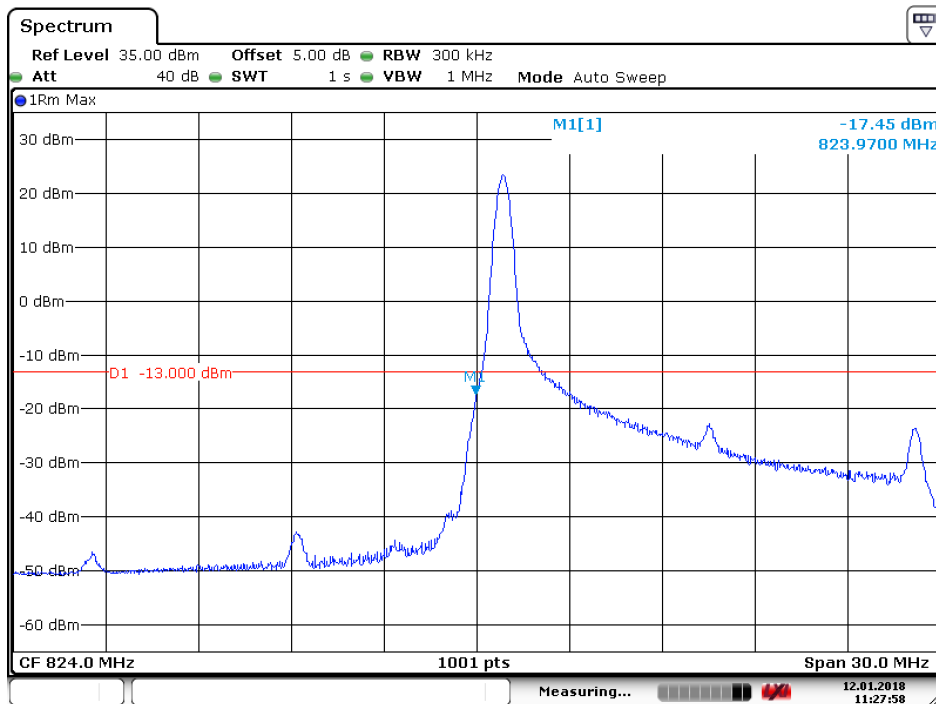


Date: 26.JAN.2018 03:26:32

5.1.1.13 Test Mode = LTE/TM1 15MHz

5.1.1.13.1 Test Channel = LCH

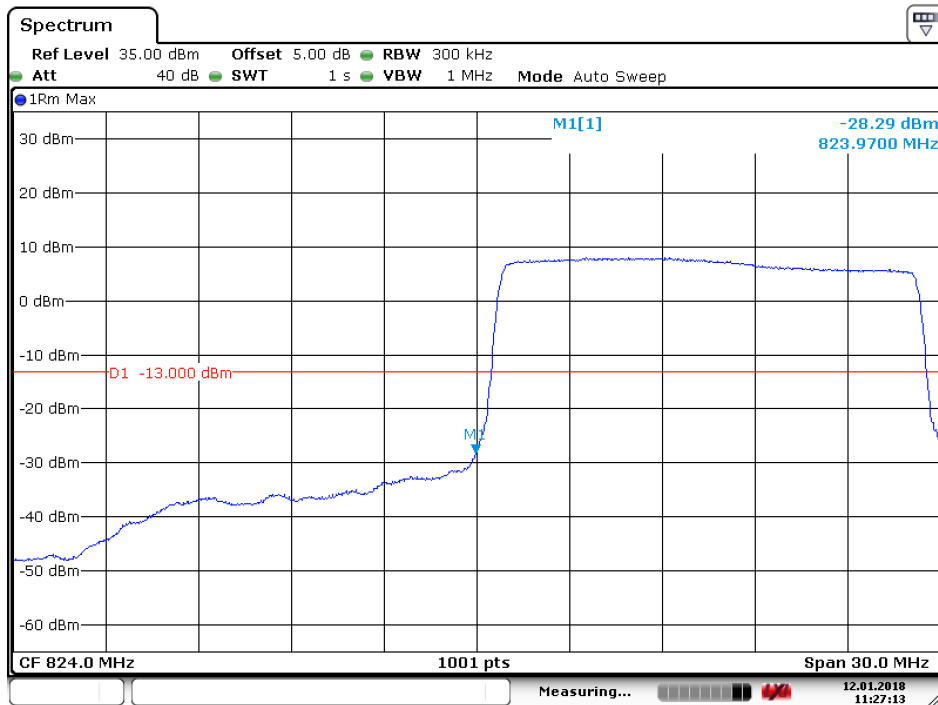
5.1.1.13.1.1 Test RB=1RB



Date: 12.JAN.2018 11:27:59



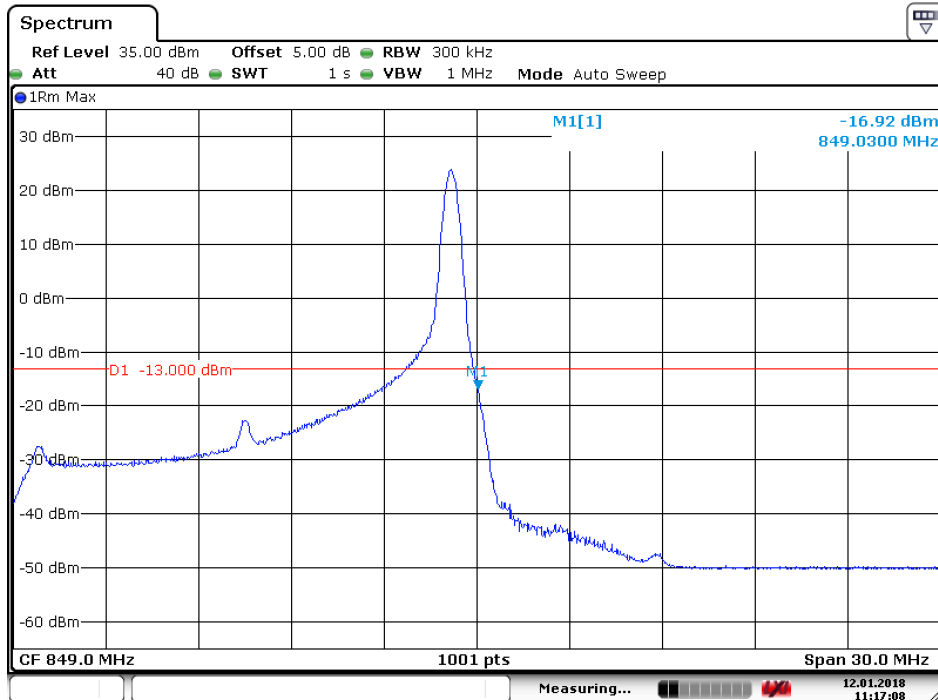
5.1.1.13.1.2 Test RB=75RB



Date: 12.JAN.2018 11:27:14

5.1.1.13.2 Test Channel = HCH

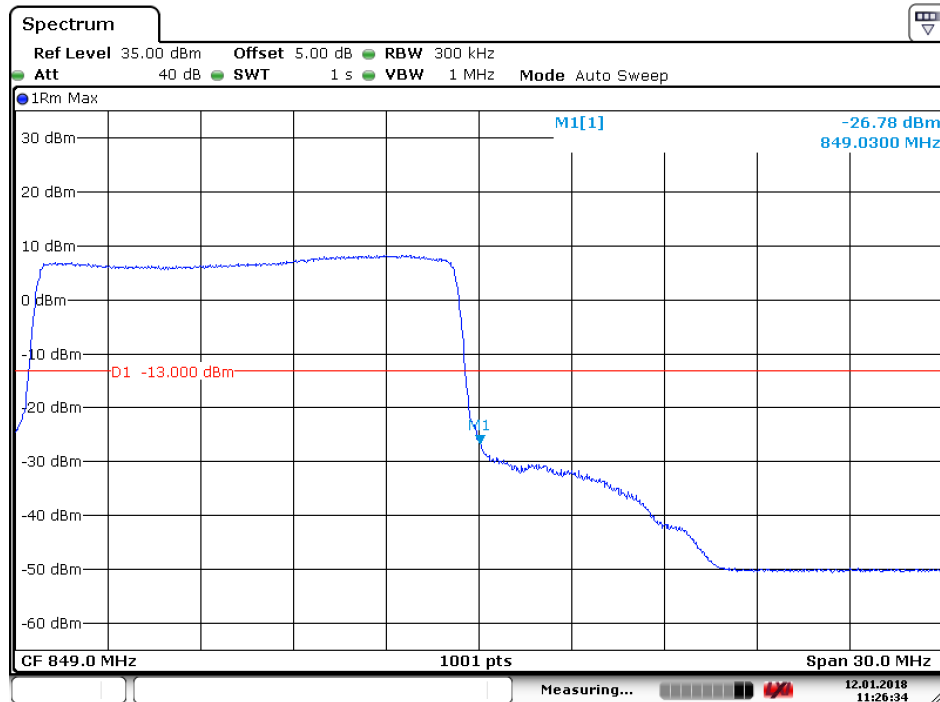
5.1.1.13.2.1 Test RB=1RB



Date: 12.JAN.2018 11:17:09



5.1.1.13.2.2 Test RB=75RB

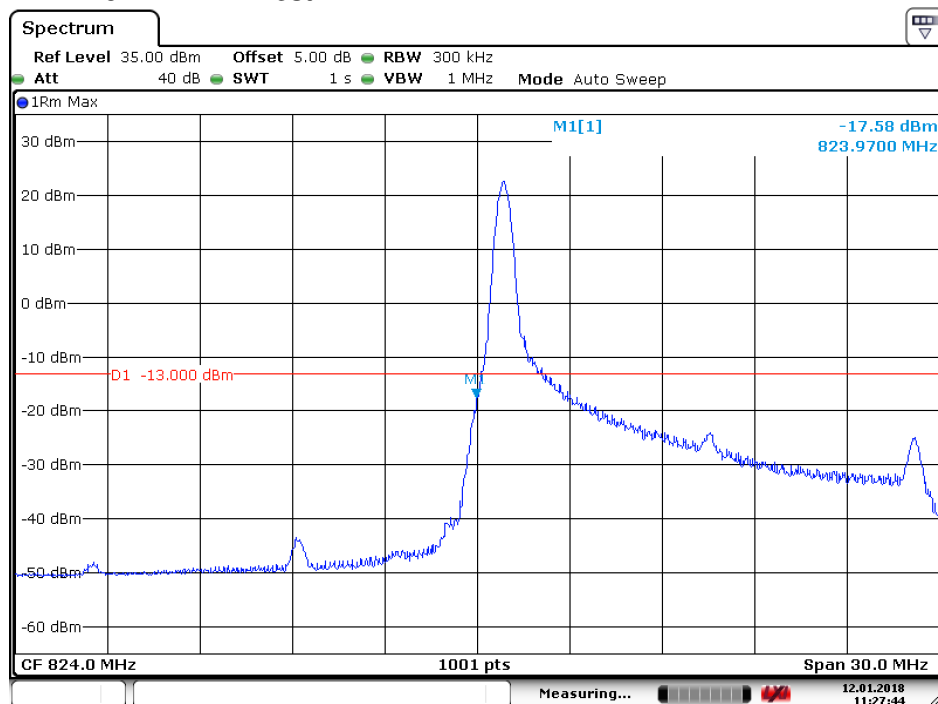


Date: 12.JAN.2018 11:26:34

5.1.1.14 Test Mode = LTE/TM2 15MHz

5.1.1.14.1 Test Channel = LCH

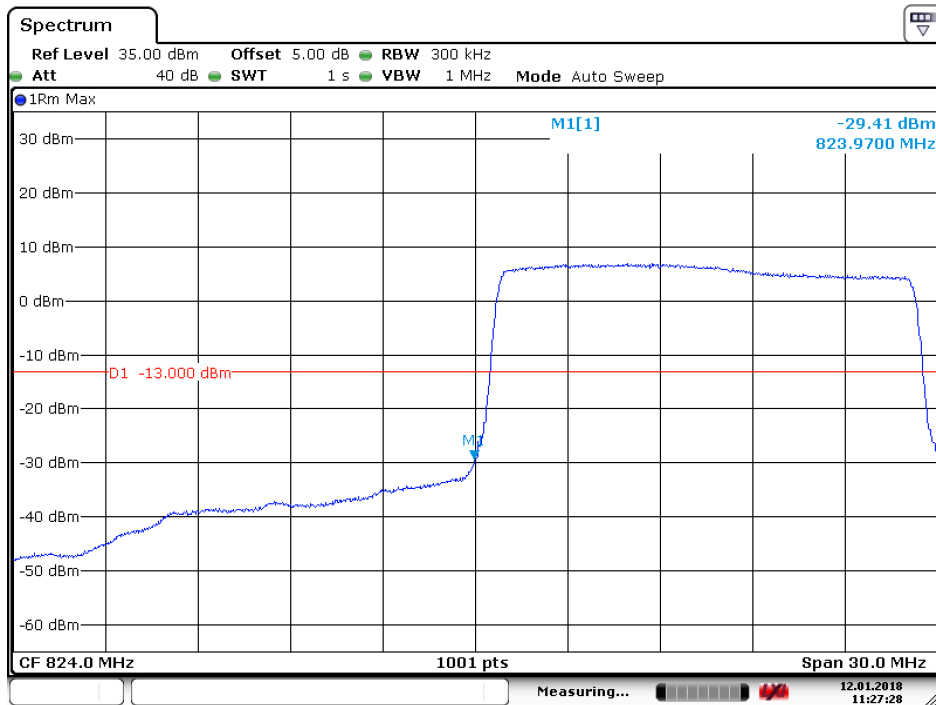
5.1.1.14.1.1 Test RB=1RB



Date: 12.JAN.2018 11:27:44



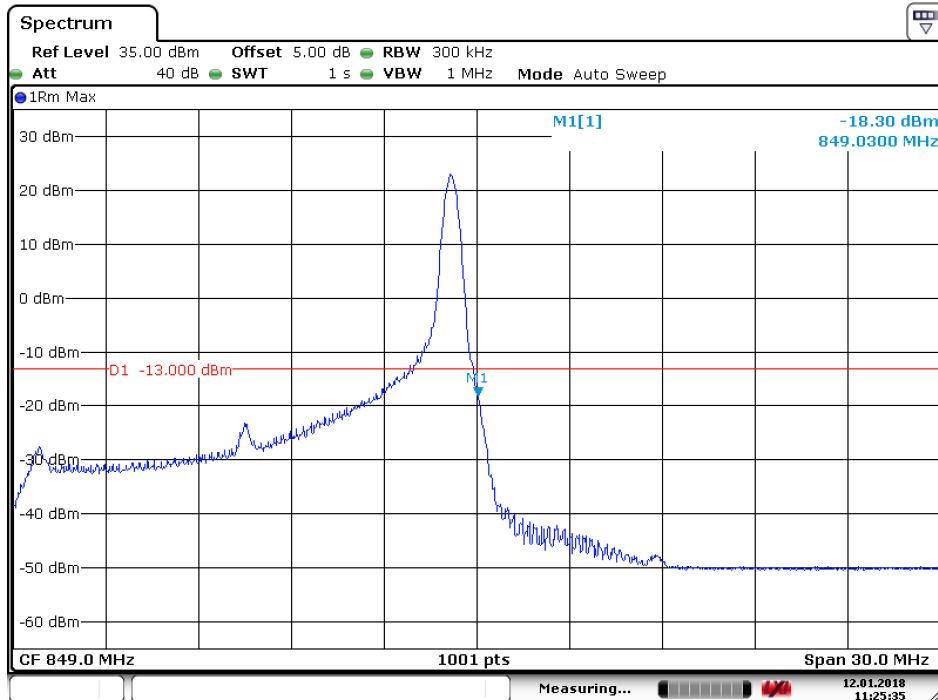
5.1.1.14.1.2 Test RB=75RB



Date: 12.JAN.2018 11:27:28

5.1.1.14.2 Test Channel = HCH

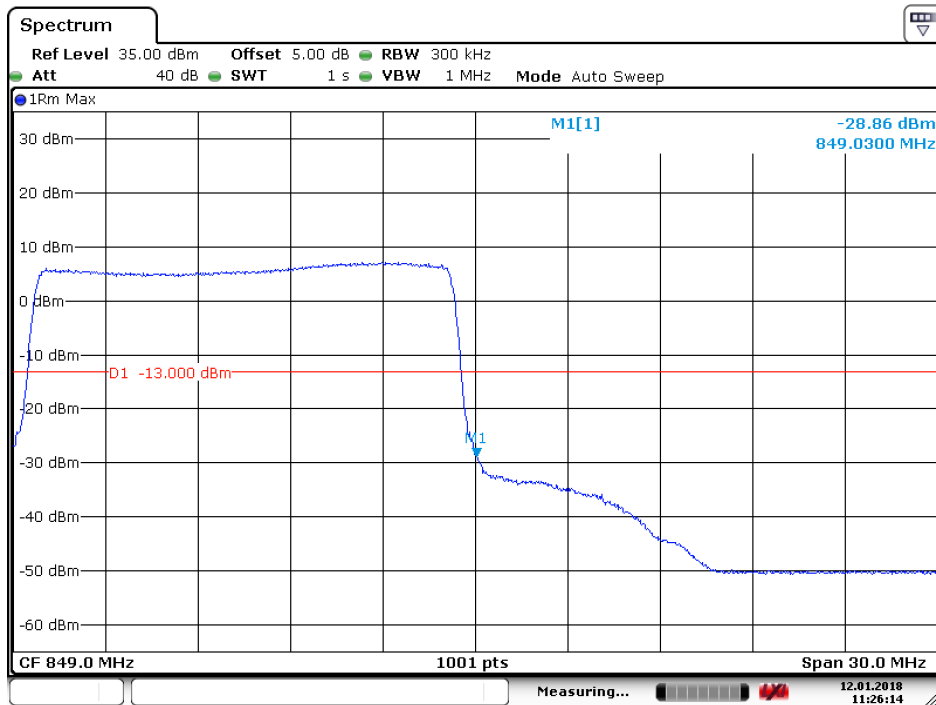
5.1.1.14.2.1 Test RB=1RB



Date: 12.JAN.2018 11:25:36



5.1.1.14.2.2 Test RB=75RB

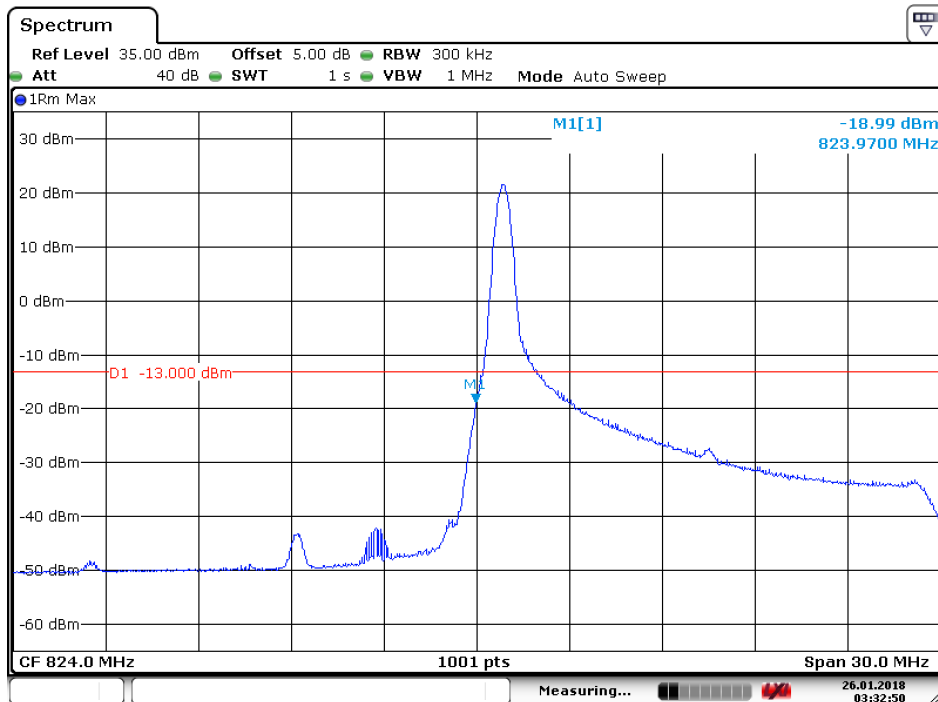


Date: 12.JAN.2018 11:26:15

5.1.1.15 Test Mode = LTE/TM3 15MHz

5.1.1.15.1 Test Channel = LCH

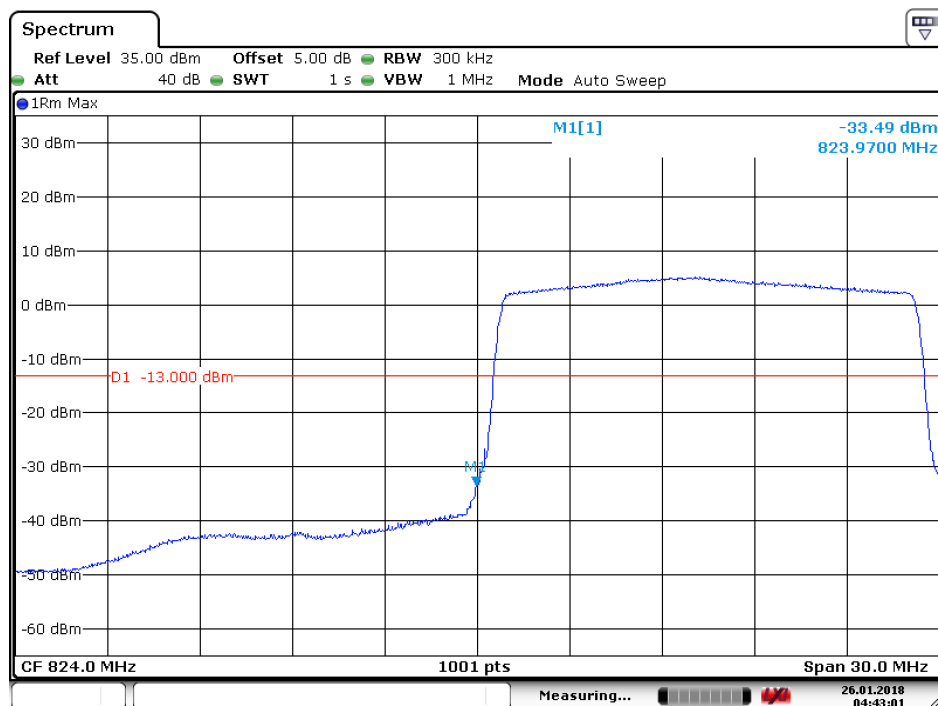
5.1.1.15.1.1 Test RB=1RB



Date: 26.JAN.2018 03:32:51



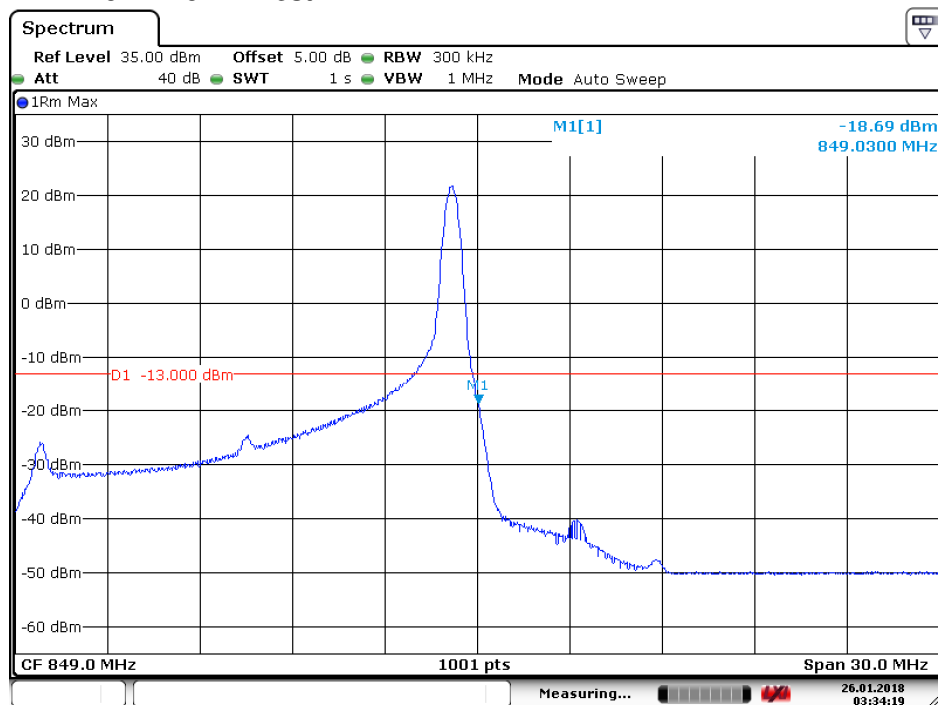
5.1.1.15.1.2 Test RB=75RB



Date: 26.JAN.2018 04:43:01

5.1.1.15.2 Test Channel = HCH

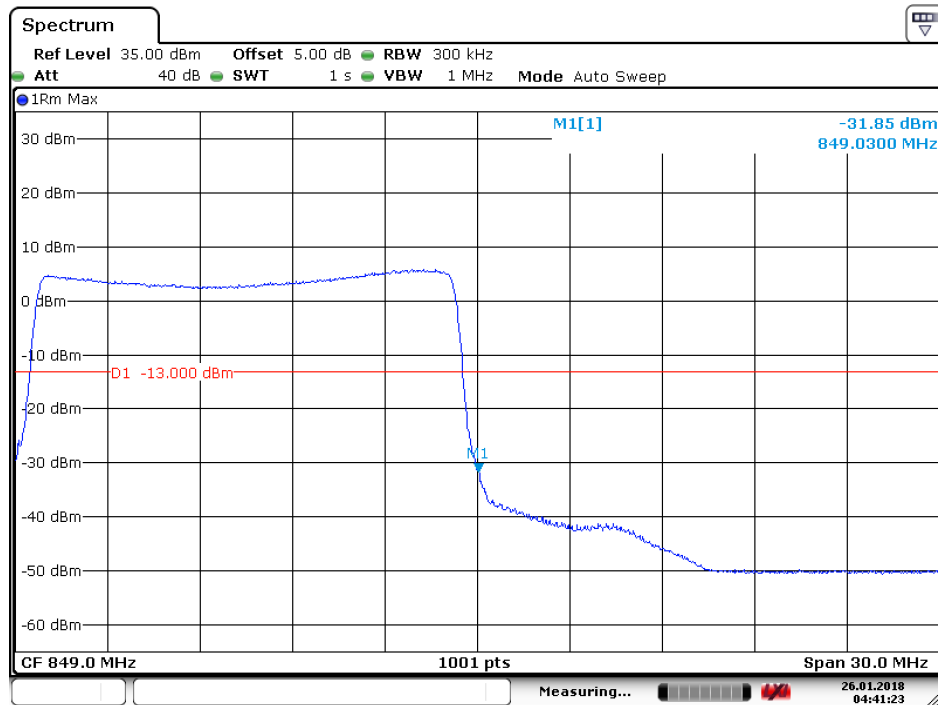
5.1.1.15.2.1 Test RB=1RB



Date: 26.JAN.2018 03:34:20



5.1.1.15.2.2 Test RB=75RB



Date: 26.JAN.2018 04:41:23



6 Spurious Emission at Antenna Terminal

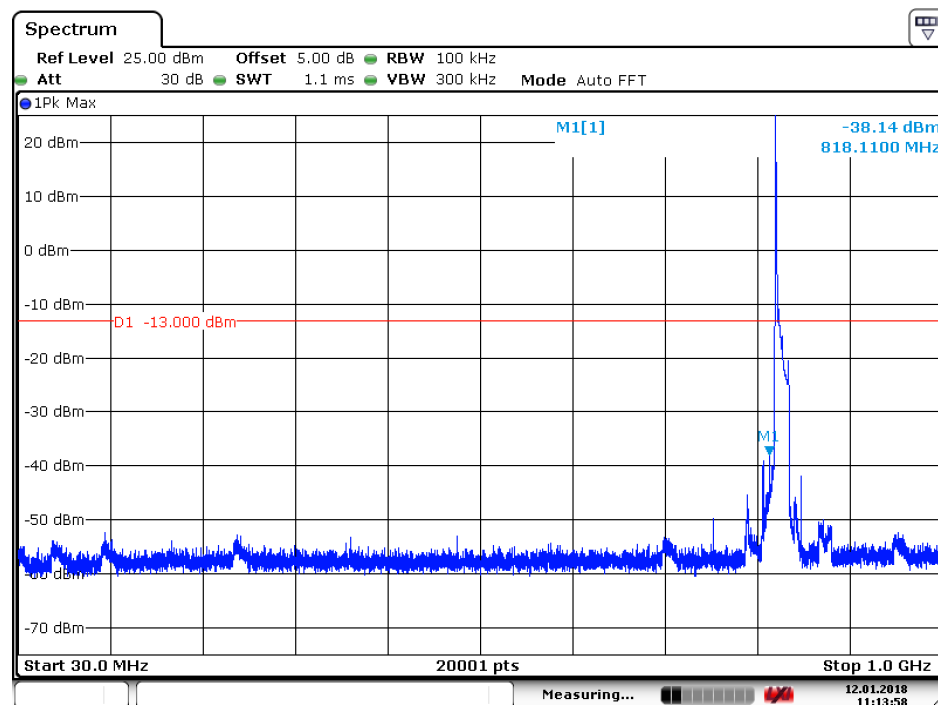
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k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

Part I - Test Plots

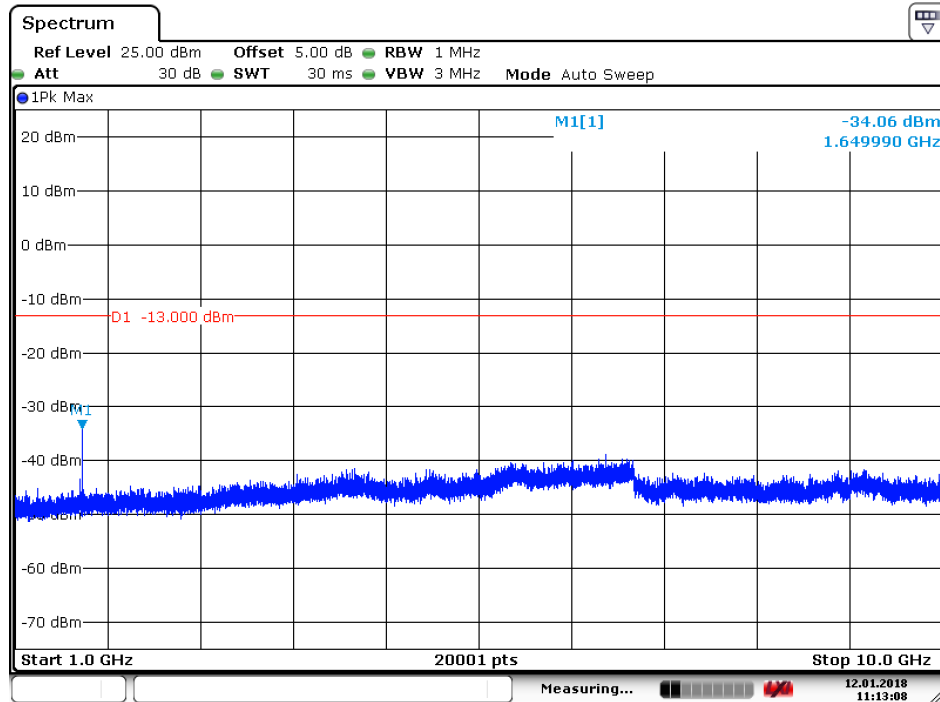
6.1 For LTE

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

6.1.1.1.1 Test Channel = LCH

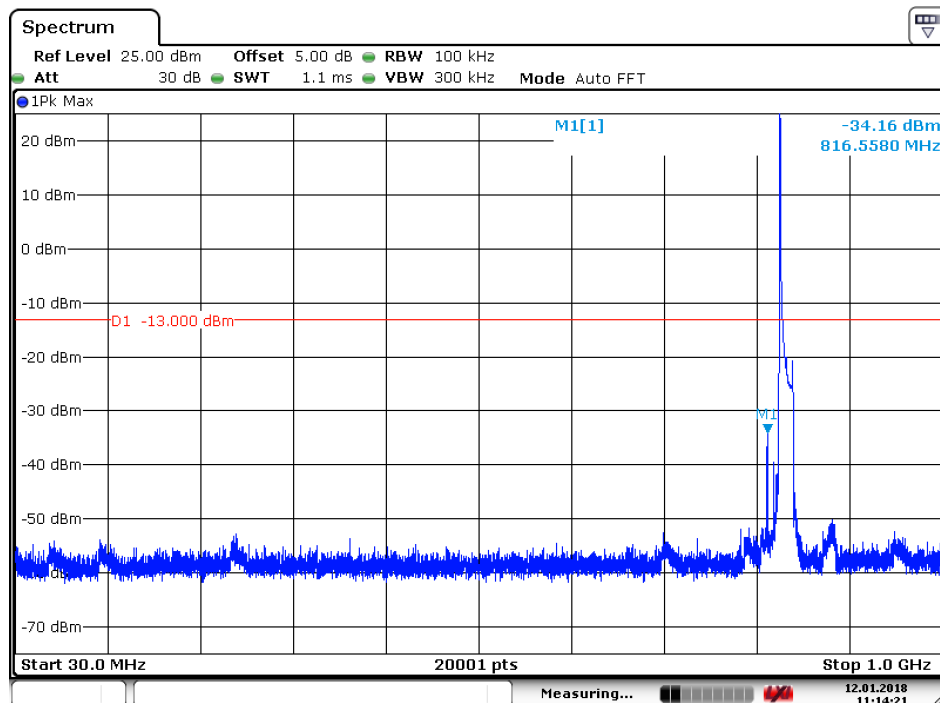


Date: 12.JAN.2018 11:13:58

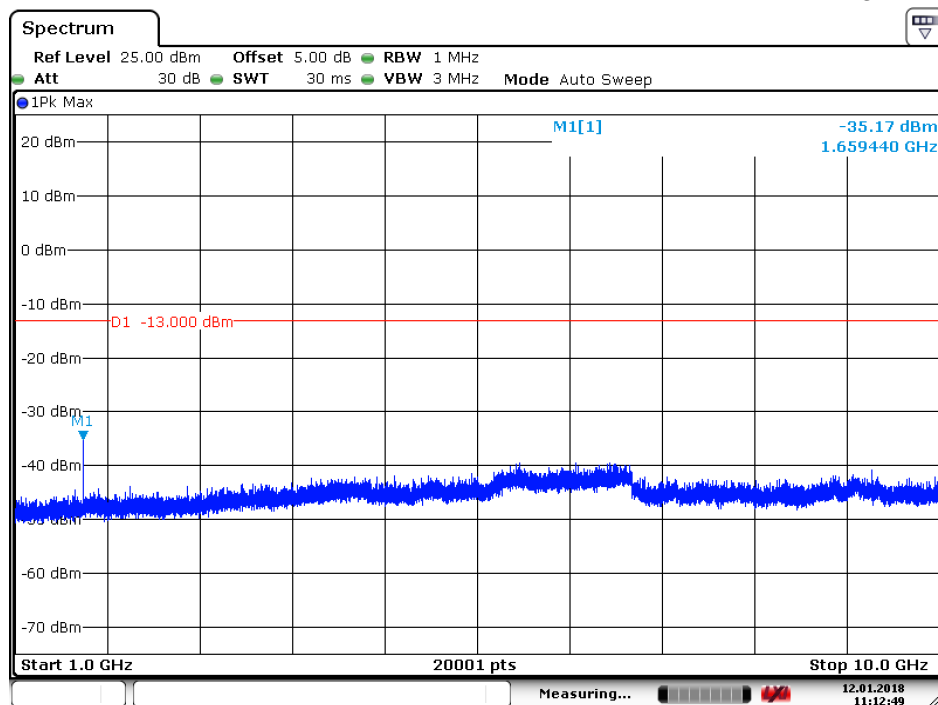


Date: 12.JAN.2018 11:13:08

6.1.1.1.2 Test Channel = MCH

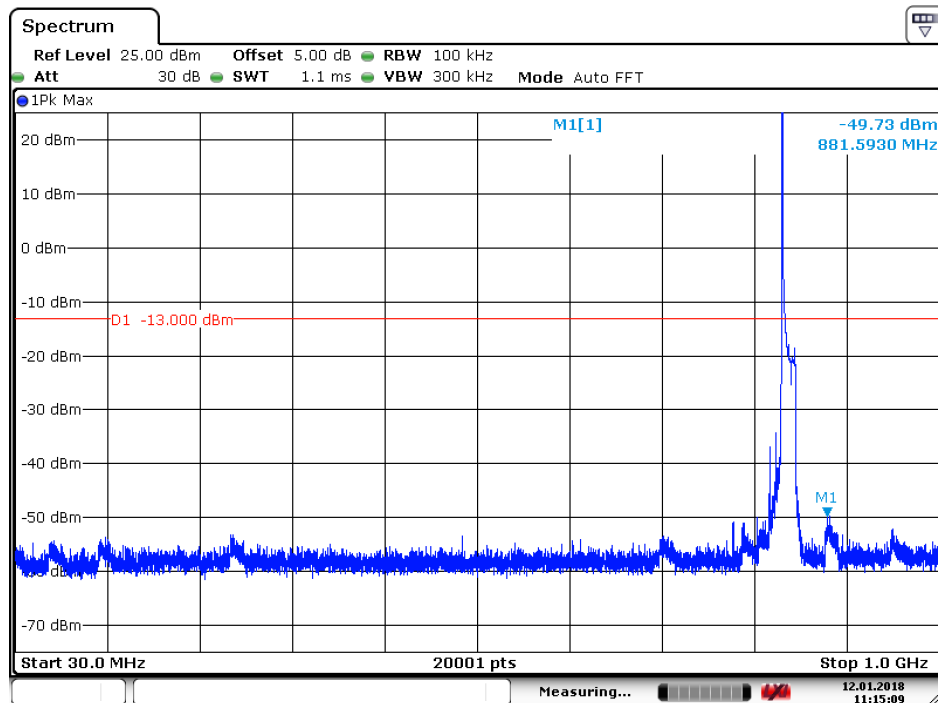


Date: 12.JAN.2018 11:14:21

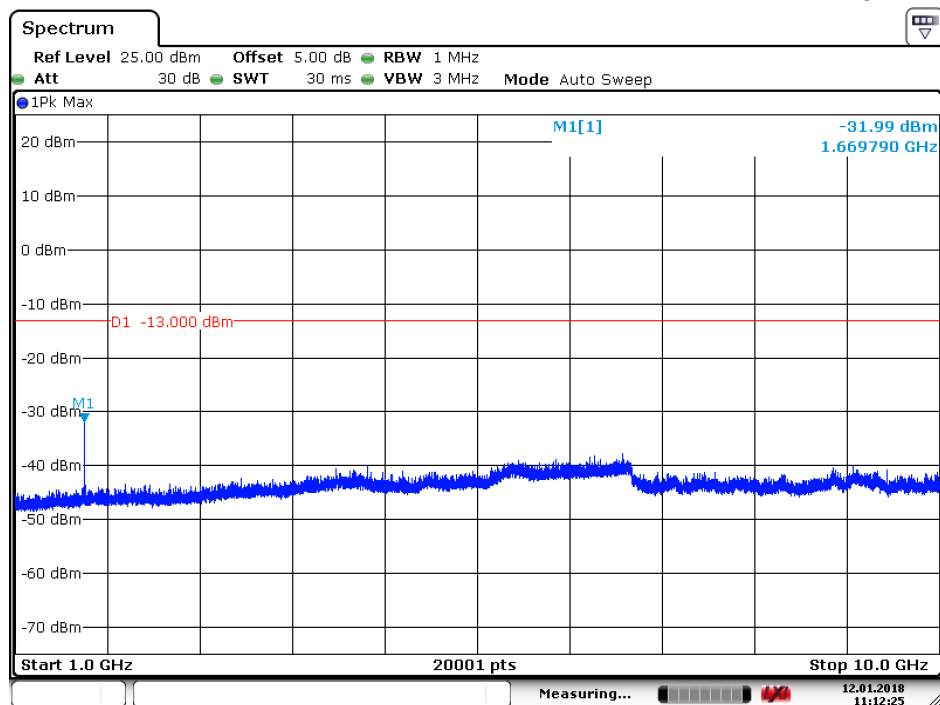


Date: 12.JAN.2018 11:12:49

6.1.1.1.3 Test Channel = HCH



Date: 12.JAN.2018 11:15:09



Date: 12.JAN.2018 11:12:26



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band26

Remark: Only RSE were test in this report.

Diversity antenna

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

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
40.546667	-70.58	-13.00	57.58	Vertical
74.986667	-71.16	-13.00	58.16	Vertical
164.820000	-70.76	-13.00	57.76	Vertical
1649.000000	-61.46	-13.00	48.46	Vertical
2473.500000	-59.01	-13.00	46.01	Vertical
3298.350000	-63.31	-13.00	50.31	Vertical
73.306667	-73.02	-13.00	60.02	Horizontal
165.146667	-71.68	-13.00	58.68	Horizontal
1649.000000	-58.99	-13.00	45.99	Horizontal
2473.500000	-56.86	-13.00	43.86	Horizontal
3298.350000	-55.79	-13.00	42.79	Horizontal
6468.075000	-65.26	-13.00	52.26	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
40.966667	-63.81	-13.00	50.81	Vertical
166.126667	-63.76	-13.00	50.76	Vertical
1664.000000	-59.92	-13.00	46.92	Vertical
2496.000000	-60.72	-13.00	47.72	Vertical
3328.087500	-64.46	-13.00	51.46	Vertical
6146.325000	-65.25	-13.00	52.25	Vertical
73.586667	-72.39	-13.00	59.39	Horizontal
164.026667	-65.70	-13.00	52.70	Horizontal
1664.000000	-60.01	-13.00	47.01	Horizontal
2496.000000	-58.86	-13.00	45.86	Horizontal
3328.087500	-58.12	-13.00	45.12	Horizontal
6595.800000	-65.22	-13.00	52.22	Horizontal



7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
39.706667	-71.32	-13.00	58.32	Vertical
74.986667	-70.27	-13.00	57.27	Vertical
166.126667	-66.54	-13.00	53.54	Vertical
1679.000000	-59.82	-13.00	46.82	Vertical
2518.500000	-62.35	-13.00	49.35	Vertical
3358.312500	-65.07	-13.00	52.07	Vertical
72.326667	-75.83	-13.00	62.83	Horizontal
165.100000	-68.88	-13.00	55.88	Horizontal
1679.000000	-58.91	-13.00	45.91	Horizontal
2518.500000	-51.25	-13.00	38.25	Horizontal
3358.312500	-58.56	-13.00	45.56	Horizontal
6472.462500	-65.19	-13.00	52.19	Horizontal

Main antenna

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

7.1.1.2.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
38.773333	-80.25	-13.00	67.25	Vertical
332.213333	-72.79	-13.00	59.79	Vertical
1649.000000	-57.68	-13.00	44.68	Vertical
2473.500000	-53.33	-13.00	40.33	Vertical
3298.350000	-60.03	-13.00	47.03	Vertical
4122.712500	-63.49	-13.00	50.49	Vertical
62.760000	-74.80	-13.00	61.80	Horizontal
320.453333	-77.35	-13.00	64.35	Horizontal
1649.000000	-73.49	-13.00	60.49	Horizontal
2473.500000	-58.10	-13.00	45.10	Horizontal
3297.862500	-60.43	-13.00	47.43	Horizontal
4122.712500	-64.83	-13.00	51.83	Horizontal



7.1.1.2.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.393333	-81.63	-13.00	68.63	Vertical
325.213333	-72.40	-13.00	59.40	Vertical
1664.000000	-55.60	-13.00	42.60	Vertical
2496.000000	-60.67	-13.00	47.67	Vertical
3328.087500	-62.52	-13.00	49.52	Vertical
4160.250000	-57.56	-13.00	44.56	Vertical
62.760000	-76.36	-13.00	63.36	Horizontal
328.433333	-78.52	-13.00	65.52	Horizontal
1664.000000	-58.79	-13.00	45.79	Horizontal
3328.087500	-65.76	-13.00	52.76	Horizontal
4160.250000	-57.71	-13.00	44.71	Horizontal
5824.087500	-64.40	-13.00	51.40	Horizontal

7.1.1.2.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
38.960000	-80.75	-13.00	67.75	Vertical
336.600000	-73.42	-13.00	60.42	Vertical
1679.000000	-53.53	-13.00	46.53	Vertical
2518.500000	-56.49	-13.00	43.49	Vertical
3357.825000	-63.23	-13.00	50.23	Vertical
4197.787500	-59.09	-13.00	46.09	Vertical
63.740000	-77.34	-13.00	64.34	Horizontal
319.426667	-76.96	-13.00	63.96	Horizontal
1679.500000	-57.38	-13.00	44.38	Horizontal
3358.312500	-65.58	-13.00	52.58	Horizontal
4197.787500	-59.16	-13.00	46.16	Horizontal
5876.737500	-63.82	-13.00	50.82	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 band26	LTE/TM1 15MHz	LCH	TN	VL	-2.66	-0.00320	PASS
				VN	1.42	0.00171	PASS
				VH	-5.23	-0.00629	PASS
		MCH	TN	VL	-1.56	-0.00187	PASS
				VN	-2.80	-0.00335	PASS
				VH	1.72	0.00206	PASS
		HCH	TN	VL	-5.36	-0.00637	PASS
				VN	-4.90	-0.00582	PASS
				VH	-1.88	-0.00223	PASS
	LTE/TM2 15MHz	LCH	TN	VL	-4.30	-0.00517	PASS
				VN	-3.33	-0.00400	PASS
				VH	-4.13	-0.00497	PASS
		MCH	TN	VL	1.20	0.00143	PASS
				VN	-3.99	-0.00477	PASS
				VH	1.63	0.00195	PASS
		HCH	TN	VL	-2.01	-0.00239	PASS
				VN	-6.10	-0.00725	PASS
				VH	5.11	0.00607	PASS
	LTE/TM3 15MHz	LCH	TN	VL	4.02	0.00483	PASS
				VN	5.01	0.00603	PASS
				VH	-0.54	-0.00065	PASS
		MCH	TN	VL	-1.78	-0.00213	PASS
				VN	2.89	0.00346	PASS
				VH	4.01	0.00479	PASS
		HCH	TN	VL	-4.02	-0.00478	PASS
				VN	2.69	0.00320	PASS
				VH	3.84	0.00456	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 band26	LTE/TM1 15MHz	LCH	VN	-30	-4.39	-0.00528	PASS
				-20	-2.6	-0.00313	PASS
				-10	-2.47	-0.00297	PASS
				0	1.22	0.00147	PASS
				10	1.20	0.00144	PASS
				20	3.90	0.00469	PASS
				30	-0.65	-0.00078	PASS
				40	-2.79	-0.00336	PASS
				50	-6.2	-0.00746	PASS
		MCH	VN	-30	-5.90	-0.00705	PASS
				-20	-5.24	-0.00626	PASS
				-10	-3.38	-0.00404	PASS
				0	-1.59	-0.00190	PASS
				10	-2.24	-0.00268	PASS
				20	-3.68	-0.00440	PASS
				30	-3.74	-0.00447	PASS
				40	-4.89	-0.00585	PASS
				50	-5.43	-0.00649	PASS
		HCH	VN	-30	-6.65	-0.00790	PASS
				-20	-3.26	-0.00387	PASS
				-10	0.69	0.00082	PASS
				0	-2.48	-0.00295	PASS
				10	2.46	0.00292	PASS
				20	-0.33	-0.00039	PASS
				30	-2.69	-0.00320	PASS
				40	-4.37	-0.00519	PASS
				50	-3.85	-0.00458	PASS



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

Report No.: SZEM180100021803

Page: 91 of 92

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band26	LTE/TM2 15MHz	LCH	VN	-30	-3.65	-0.00439	PASS
				-20	-2.46	-0.00296	PASS
				-10	1.27	0.00153	PASS
				0	2.23	0.00268	PASS
				10	1.76	0.00212	PASS
				20	-0.82	-0.00099	PASS
				30	-3.84	-0.00462	PASS
				40	2.26	0.00272	PASS
				50	-4.82	-0.00580	PASS
		MCH	VN	-30	-3.37	-0.00403	PASS
				-20	-2.63	-0.00314	PASS
				-10	-2.19	-0.00262	PASS
				0	-1.82	-0.00218	PASS
				10	-0.76	-0.00091	PASS
				20	1.24	0.00148	PASS
				30	-2.23	-0.00267	PASS
				40	-6.79	-0.00812	PASS
				50	-5.42	-0.00648	PASS
		HCH	VN	-30	-3.47	-0.00412	PASS
				-20	-4.79	-0.00569	PASS
				-10	2.38	0.00283	PASS
				0	-3.58	-0.00425	PASS
				10	2.29	0.00272	PASS
				20	-1.49	-0.00177	PASS
				30	-3.29	-0.00391	PASS
				40	-4.07	-0.00484	PASS
				50	-4.52	-0.00537	PASS



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

Report No.: SZEM180100021803

Page: 92 of 92

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band26	LTE/TM3 15MHz	LCH	VN	-30	-3.67	-0.00441	PASS
				-20	-2.44	-0.00293	PASS
				-10	1.89	0.00227	PASS
				0	2.35	0.00283	PASS
				10	1.78	0.00214	PASS
				20	-0.89	-0.00107	PASS
				30	-3.83	-0.00461	PASS
				40	2.45	0.00295	PASS
				50	-4.38	-0.00527	PASS
		MCH	VN	-30	-3.49	-0.00417	PASS
				-20	-2.20	-0.00263	PASS
				-10	-2.89	-0.00346	PASS
				0	-1.30	-0.00155	PASS
				10	-0.69	-0.00082	PASS
				20	1.39	0.00166	PASS
				30	-2.20	-0.00263	PASS
				40	-6.50	-0.00777	PASS
				50	-5.97	-0.00714	PASS
		HCH	VN	-30	-3.58	-0.00425	PASS
				-20	-4.59	-0.00545	PASS
				-10	2.59	0.00308	PASS
				0	-3.38	-0.00402	PASS
				10	2.59	0.00308	PASS
				20	-1.26	-0.00150	PASS
				30	-3.38	-0.00402	PASS
				40	-4.69	-0.00557	PASS
				50	-4.38	-0.00520	PASS

The End