



Appendix B

E-UTRA Band2



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 1	1.4M	LCH	RB1#0	22.27	19.71	21.58	33.00	PASS
				RB1#2	22.41	19.22	21.09	33.00	PASS
				RB1#5	22.10	19.96	21.83	33.00	PASS
				RB3#0	22.46	19.44	21.31	33.00	PASS
				RB3#2	22.25	19.92	21.79	33.00	PASS
				RB3#3	22.24	18.67	20.54	33.00	PASS
				RB6#0	21.40	18.49	20.36	33.00	PASS
			MCH	RB1#0	22.32	19.40	21.27	33.00	PASS
				RB1#2	22.36	18.82	20.69	33.00	PASS
				RB1#5	22.34	19.79	21.66	33.00	PASS
				RB3#0	22.27	19.89	21.76	33.00	PASS
				RB3#2	22.44	18.64	20.51	33.00	PASS
				RB3#3	22.38	18.55	20.42	33.00	PASS
				RB6#0	21.61	17.91	19.78	33.00	PASS
			HCH	RB1#0	22.39	19.12	20.99	33.00	PASS
				RB1#2	22.49	19.74	21.61	33.00	PASS
				RB1#5	22.36	20.12	21.99	33.00	PASS
				RB3#0	22.51	20.11	21.98	33.00	PASS
				RB3#2	22.49	18.65	20.52	33.00	PASS
				RB3#3	22.49	20.36	22.23	33.00	PASS
				RB6#0	21.49	18.18	20.05	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 2	1.4M	LCH	RB1#0	21.49	19.31	21.18	33.00	PASS
				RB1#2	21.37	17.74	19.61	33.00	PASS
				RB1#5	21.65	17.88	19.75	33.00	PASS
				RB3#0	21.33	17.36	19.23	33.00	PASS
				RB3#2	21.24	17.71	19.58	33.00	PASS
				RB3#3	21.31	18.27	20.14	33.00	PASS
				RB6#0	20.34	17.05	18.92	33.00	PASS
			MCH	RB1#0	21.24	18.95	20.82	33.00	PASS
				RB1#2	21.74	18.23	20.1	33.00	PASS
				RB1#5	21.20	17.37	19.24	33.00	PASS
				RB3#0	21.41	18.42	20.29	33.00	PASS
				RB3#2	21.40	18.31	20.18	33.00	PASS
				RB3#3	21.51	19.21	21.08	33.00	PASS
				RB6#0	20.63	17.47	19.34	33.00	PASS
			HCH	RB1#0	21.39	18.99	20.86	33.00	PASS
				RB1#2	21.45	17.81	19.68	33.00	PASS
				RB1#5	21.50	19.20	21.07	33.00	PASS
				RB3#0	21.48	18.35	20.22	33.00	PASS
				RB3#2	21.47	17.87	19.74	33.00	PASS
				RB3#3	21.45	18.25	20.12	33.00	PASS
				RB6#0	20.44	18.04	19.91	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 1	3M	LCH	RB1#0	22.17	19.84	21.71	33.00	PASS
				RB1#7	22.00	19.48	21.35	33.00	PASS
				RB1#14	22.18	19.79	21.66	33.00	PASS
				RB8#0	21.42	18.79	20.66	33.00	PASS
				RB8#4	21.42	18.92	20.79	33.00	PASS
				RB8#7	21.35	18.36	20.23	33.00	PASS
				RB15#0	21.45	18.24	20.11	33.00	PASS
			MCH	RB1#0	22.51	18.74	20.61	33.00	PASS
				RB1#7	22.35	18.47	20.34	33.00	PASS
				RB1#14	22.48	19.16	21.03	33.00	PASS
				RB8#0	21.51	18.16	20.03	33.00	PASS
				RB8#4	21.42	17.86	19.73	33.00	PASS
				RB8#7	21.57	19.53	21.4	33.00	PASS
				RB15#0	21.42	18.78	20.65	33.00	PASS
			HCH	RB1#0	22.42	19.85	21.72	33.00	PASS
				RB1#7	22.26	19.63	21.5	33.00	PASS
				RB1#14	22.40	19.60	21.47	33.00	PASS
				RB8#0	21.41	17.68	19.55	33.00	PASS
				RB8#4	21.41	18.19	20.06	33.00	PASS
				RB8#7	21.43	17.93	19.8	33.00	PASS
				RB15#0	21.43	17.84	19.71	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 2	3M	LCH	RB1#0	21.15	18.35	20.22	33.00	PASS
				RB1#7	21.10	18.63	20.5	33.00	PASS
				RB1#14	21.10	18.92	20.79	33.00	PASS
				RB8#0	20.53	18.04	19.91	33.00	PASS
				RB8#4	20.51	16.55	18.42	33.00	PASS
				RB8#7	20.60	17.23	19.1	33.00	PASS
				RB15#0	20.40	17.81	19.68	33.00	PASS
			MCH	RB1#0	21.38	18.32	20.19	33.00	PASS
				RB1#7	21.35	18.96	20.83	33.00	PASS
				RB1#14	21.54	17.63	19.5	33.00	PASS
				RB8#0	20.45	17.39	19.26	33.00	PASS
				RB8#4	20.45	16.55	18.42	33.00	PASS
				RB8#7	20.60	17.46	19.33	33.00	PASS
				RB15#0	20.37	16.58	18.45	33.00	PASS
			HCH	RB1#0	21.51	18.03	19.9	33.00	PASS
				RB1#7	21.43	18.68	20.55	33.00	PASS
				RB1#14	21.46	18.30	20.17	33.00	PASS
				RB8#0	20.38	17.98	19.85	33.00	PASS
				RB8#4	20.48	16.67	18.54	33.00	PASS
				RB8#7	20.51	17.57	19.44	33.00	PASS
				RB15#0	20.63	17.54	19.41	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 1	5M	LCH	RB1#0	22.33	19.14	21.01	33.00	PASS
				RB1#13	22.30	19.30	21.17	33.00	PASS
				RB1#24	22.28	20.22	22.09	33.00	PASS
				RB12#0	21.24	17.91	19.78	33.00	PASS
				RB12#6	21.25	18.62	20.49	33.00	PASS
				RB12#13	21.27	17.46	19.33	33.00	PASS
				RB25#0	21.27	18.66	20.53	33.00	PASS
			MCH	RB1#0	22.52	19.97	21.84	33.00	PASS
				RB1#13	22.33	19.20	21.07	33.00	PASS
				RB1#24	22.39	19.21	21.08	33.00	PASS
				RB12#0	21.35	17.65	19.52	33.00	PASS
				RB12#6	21.36	18.02	19.89	33.00	PASS
				RB12#13	21.46	19.25	21.12	33.00	PASS
				RB25#0	21.41	17.49	19.36	33.00	PASS
			HCH	RB1#0	22.49	18.77	20.64	33.00	PASS
				RB1#13	22.42	18.89	20.76	33.00	PASS
				RB1#24	22.47	20.27	22.14	33.00	PASS
				RB12#0	21.35	18.11	19.98	33.00	PASS
				RB12#6	21.44	17.58	19.45	33.00	PASS
				RB12#13	21.50	17.51	19.38	33.00	PASS
				RB25#0	21.46	18.38	20.25	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 2	5M	LCH	RB1#0	21.21	17.49	19.36	33.00	PASS
				RB1#13	21.6	19.39	21.26	33.00	PASS
				RB1#24	21.59	19.44	21.31	33.00	PASS
				RB12#0	20.34	18.07	19.94	33.00	PASS
				RB12#6	20.34	17.30	19.17	33.00	PASS
				RB12#13	20.35	16.65	18.52	33.00	PASS
				RB25#0	20.45	18.16	20.03	33.00	PASS
			MCH	RB1#0	21.38	18.85	20.72	33.00	PASS
				RB1#13	21.45	19.24	21.11	33.00	PASS
				RB1#24	21.33	18.82	20.69	33.00	PASS
				RB12#0	20.5	17.87	19.74	33.00	PASS
				RB12#6	20.48	17.55	19.42	33.00	PASS
				RB12#13	20.41	17.92	19.79	33.00	PASS
				RB25#0	20.47	17.48	19.35	33.00	PASS
			HCH	RB1#0	21.24	18.88	20.75	33.00	PASS
				RB1#13	21.18	18.70	20.57	33.00	PASS
				RB1#24	21.39	18.51	20.38	33.00	PASS
				RB12#0	20.48	16.74	18.61	33.00	PASS
				RB12#6	20.47	16.96	18.83	33.00	PASS
				RB12#13	20.54	17.82	19.69	33.00	PASS
				RB25#0	20.7	16.94	18.81	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 1	10M	LCH	RB1#0	22.29	18.39	20.26	33.00	PASS
				RB1#25	22.71	19.63	21.5	33.00	PASS
				RB1#49	22.62	20.49	22.36	33.00	PASS
				RB25#0	21.34	18.00	19.87	33.00	PASS
				RB25#13	21.34	18.92	20.79	33.00	PASS
				RB25#25	21.39	17.69	19.56	33.00	PASS
				RB50#0	21.34	17.72	19.59	33.00	PASS
			MCH	RB1#0	22.39	19.12	20.99	33.00	PASS
				RB1#25	22.37	19.69	21.56	33.00	PASS
				RB1#49	22.35	20.29	22.16	33.00	PASS
				RB25#0	21.47	18.68	20.55	33.00	PASS
				RB25#13	21.56	18.75	20.62	33.00	PASS
				RB25#25	21.47	18.56	20.43	33.00	PASS
				RB50#0	21.50	18.01	19.88	33.00	PASS
			HCH	RB1#0	22.37	19.67	21.54	33.00	PASS
				RB1#25	22.60	20.27	22.14	33.00	PASS
				RB1#49	22.35	20.32	22.19	33.00	PASS
				RB25#0	21.36	17.65	19.52	33.00	PASS
				RB25#13	21.47	19.29	21.16	33.00	PASS
				RB25#25	21.51	17.61	19.48	33.00	PASS
				RB50#0	21.40	18.91	20.78	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 2	10M	LCH	RB1#0	21.60	18.92	20.79	33.00	PASS
				RB1#25	21.75	18.43	20.3	33.00	PASS
				RB1#49	21.53	19.30	21.17	33.00	PASS
				RB25#0	20.47	17.20	19.07	33.00	PASS
				RB25#13	20.46	17.34	19.21	33.00	PASS
				RB25#25	20.38	17.88	19.75	33.00	PASS
				RB50#0	20.38	17.00	18.87	33.00	PASS
			MCH	RB1#0	21.82	19.22	21.09	33.00	PASS
				RB1#25	21.52	18.83	20.7	33.00	PASS
				RB1#49	21.82	18.79	20.66	33.00	PASS
				RB25#0	20.39	16.59	18.46	33.00	PASS
				RB25#13	20.35	17.32	19.19	33.00	PASS
				RB25#25	20.35	16.65	18.52	33.00	PASS
				RB50#0	20.66	17.53	19.4	33.00	PASS
			HCH	RB1#0	21.67	19.39	21.26	33.00	PASS
				RB1#25	21.50	17.63	19.5	33.00	PASS
				RB1#49	21.65	17.98	19.85	33.00	PASS
				RB25#0	20.53	18.15	20.02	33.00	PASS
				RB25#13	20.52	17.37	19.24	33.00	PASS
				RB25#25	20.75	17.26	19.13	33.00	PASS
				RB50#0	20.51	16.66	18.53	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 1	15M	LCH	RB1#0	22.47	20.32	22.19	33.00	PASS
				RB1#38	22.46	19.63	21.5	33.00	PASS
				RB1#74	22.18	19.08	20.95	33.00	PASS
				RB36#0	21.16	18.93	20.8	33.00	PASS
				RB36#18	21.43	19.40	21.27	33.00	PASS
				RB36#39	21.29	18.75	20.62	33.00	PASS
				RB75#0	21.45	17.73	19.6	33.00	PASS
			MCH	RB1#0	22.21	20.02	21.89	33.00	PASS
				RB1#38	22.28	19.34	21.21	33.00	PASS
				RB1#74	22.13	19.12	20.99	33.00	PASS
				RB36#0	21.33	18.81	20.68	33.00	PASS
				RB36#18	21.32	18.05	19.92	33.00	PASS
				RB36#39	21.16	17.75	19.62	33.00	PASS
				RB75#0	21.44	18.56	20.43	33.00	PASS
			HCH	RB1#0	22.50	18.66	20.53	33.00	PASS
				RB1#38	22.38	19.80	21.67	33.00	PASS
				RB1#74	22.32	18.63	20.5	33.00	PASS
				RB36#0	20.61	17.91	19.78	33.00	PASS
				RB36#18	20.97	18.30	20.17	33.00	PASS
				RB36#39	21.12	18.99	20.86	33.00	PASS
				RB75#0	21.36	17.81	19.68	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 2	15M	LCH	RB1#0	21.32	17.49	19.36	33.00	PASS
				RB1#38	21.34	18.09	19.96	33.00	PASS
				RB1#74	21.19	18.97	20.84	33.00	PASS
				RB36#0	21.19	18.46	20.33	33.00	PASS
				RB36#18	21.43	19.09	20.96	33.00	PASS
				RB36#39	21.29	18.22	20.09	33.00	PASS
				RB75#0	20.45	17.47	19.34	33.00	PASS
			MCH	RB1#0	21.48	17.62	19.49	33.00	PASS
				RB1#38	21.41	18.90	20.77	33.00	PASS
				RB1#74	21.31	19.09	20.96	33.00	PASS
				RB36#0	21.30	17.70	19.57	33.00	PASS
				RB36#18	21.20	18.78	20.65	33.00	PASS
				RB36#39	21.19	18.73	20.6	33.00	PASS
				RB75#0	20.41	17.85	19.72	33.00	PASS
			HCH	RB1#0	21.43	17.65	19.52	33.00	PASS
				RB1#38	21.45	19.26	21.13	33.00	PASS
				RB1#74	21.38	18.00	19.87	33.00	PASS
				RB36#0	20.55	16.92	18.79	33.00	PASS
				RB36#18	20.83	18.70	20.57	33.00	PASS
				RB36#39	21.11	17.51	19.38	33.00	PASS
				RB75#0	20.59	17.81	19.68	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 1	20M	LCH	RB1#0	22.36	18.49	20.36	33.00	PASS
				RB1#50	22.57	20.30	22.17	33.00	PASS
				RB1#99	22.40	18.47	20.34	33.00	PASS
				RB50#0	21.29	17.97	19.84	33.00	PASS
				RB50#25	21.45	18.90	20.77	33.00	PASS
				RB50#50	21.41	19.14	21.01	33.00	PASS
				RB100#0	21.42	18.49	20.36	33.00	PASS
			MCH	RB1#0	22.31	18.91	20.78	33.00	PASS
				RB1#50	22.63	19.66	21.53	33.00	PASS
				RB1#99	22.15	19.93	21.8	33.00	PASS
				RB50#0	21.48	18.24	20.11	33.00	PASS
				RB50#25	21.46	17.98	19.85	33.00	PASS
				RB50#50	21.32	19.24	21.11	33.00	PASS
				RB100#0	21.50	19.38	21.25	33.00	PASS
			HCH	RB1#0	22.32	19.38	21.25	33.00	PASS
				RB1#50	22.52	18.58	20.45	33.00	PASS
				RB1#99	22.62	19.80	21.67	33.00	PASS
				RB50#0	21.42	17.85	19.72	33.00	PASS
				RB50#25	21.50	19.14	21.01	33.00	PASS
				RB50#50	21.51	18.62	20.49	33.00	PASS
				RB100#0	21.51	17.56	19.43	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	SG Power(With Cable Loss)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM 2	20M	LCH	RB1#0	21.54	18.04	19.91	33.00	PASS
				RB1#50	21.52	17.71	19.58	33.00	PASS
				RB1#99	21.28	18.21	20.08	33.00	PASS
				RB50#0	20.46	18.35	20.22	33.00	PASS
				RB50#25	20.46	17.81	19.68	33.00	PASS
				RB50#50	20.42	16.62	18.49	33.00	PASS
				RB100#0	20.53	18.42	20.29	33.00	PASS
			MCH	RB1#0	21.81	17.84	19.71	33.00	PASS
				RB1#50	21.91	19.24	21.11	33.00	PASS
				RB1#99	21.68	18.50	20.37	33.00	PASS
				RB50#0	20.50	18.01	19.88	33.00	PASS
				RB50#25	20.64	17.89	19.76	33.00	PASS
				RB50#50	20.37	16.84	18.71	33.00	PASS
				RB100#0	20.50	17.27	19.14	33.00	PASS
			HCH	RB1#0	21.46	19.35	21.22	33.00	PASS
				RB1#50	21.50	18.01	19.88	33.00	PASS
				RB1#99	21.35	18.49	20.36	33.00	PASS
				RB50#0	20.57	17.98	19.85	33.00	PASS
				RB50#25	20.57	17.24	19.11	33.00	PASS
				RB50#50	20.62	17.10	18.97	33.00	PASS
				RB100#0	20.67	16.94	18.81	33.00	PASS

Note:

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

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

b: SGP=Signal Generator Level

2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band2	TM1/20M	LCH	4.58	13	PASS
		MCH	4.61	13	PASS
		HCH	4.64	13	PASS
	TM2/20M	LCH	5.57	13	PASS
		MCH	5.62	13	PASS
		HCH	5.59	13	PASS

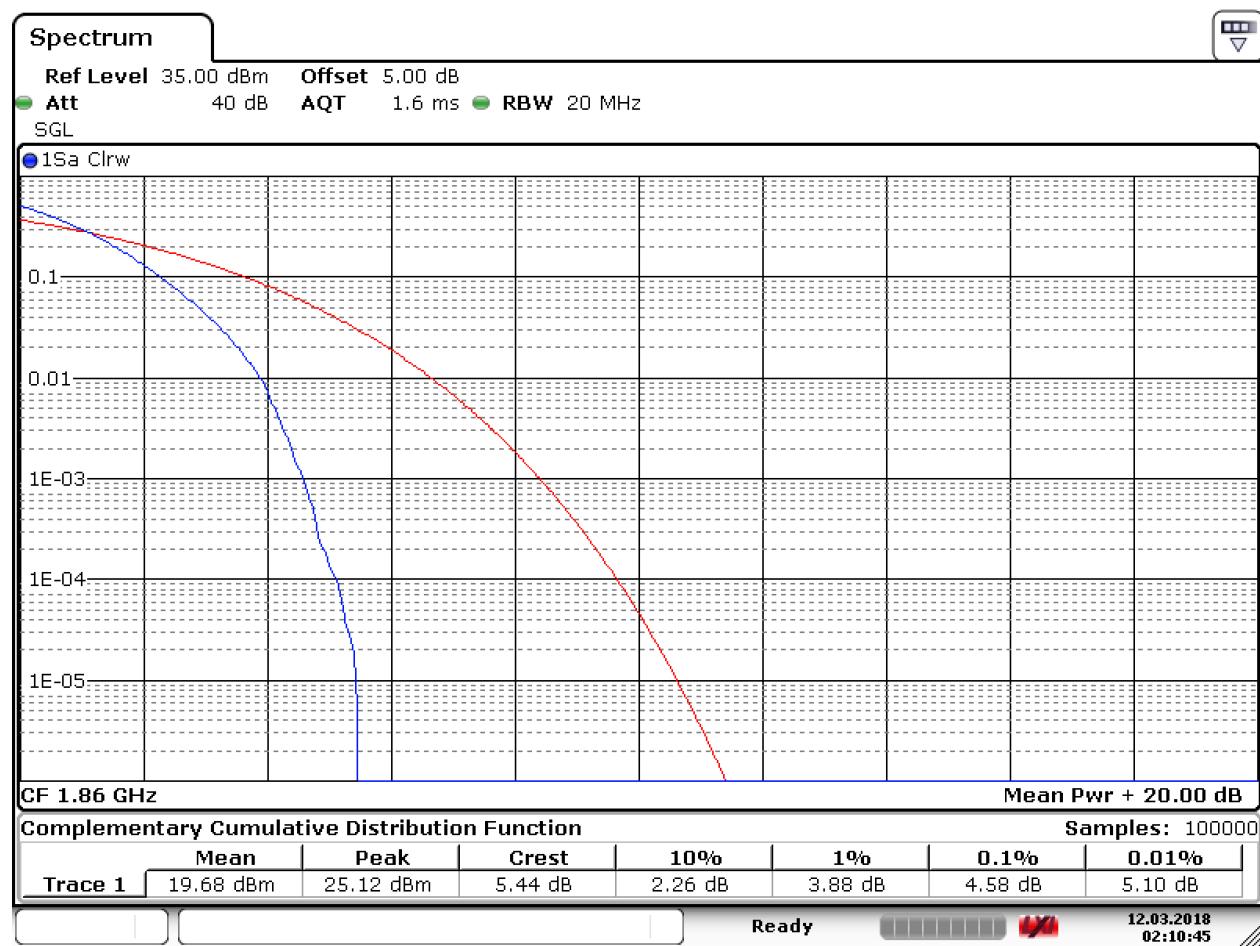
Part II - Test Plots

2.1 For LTE

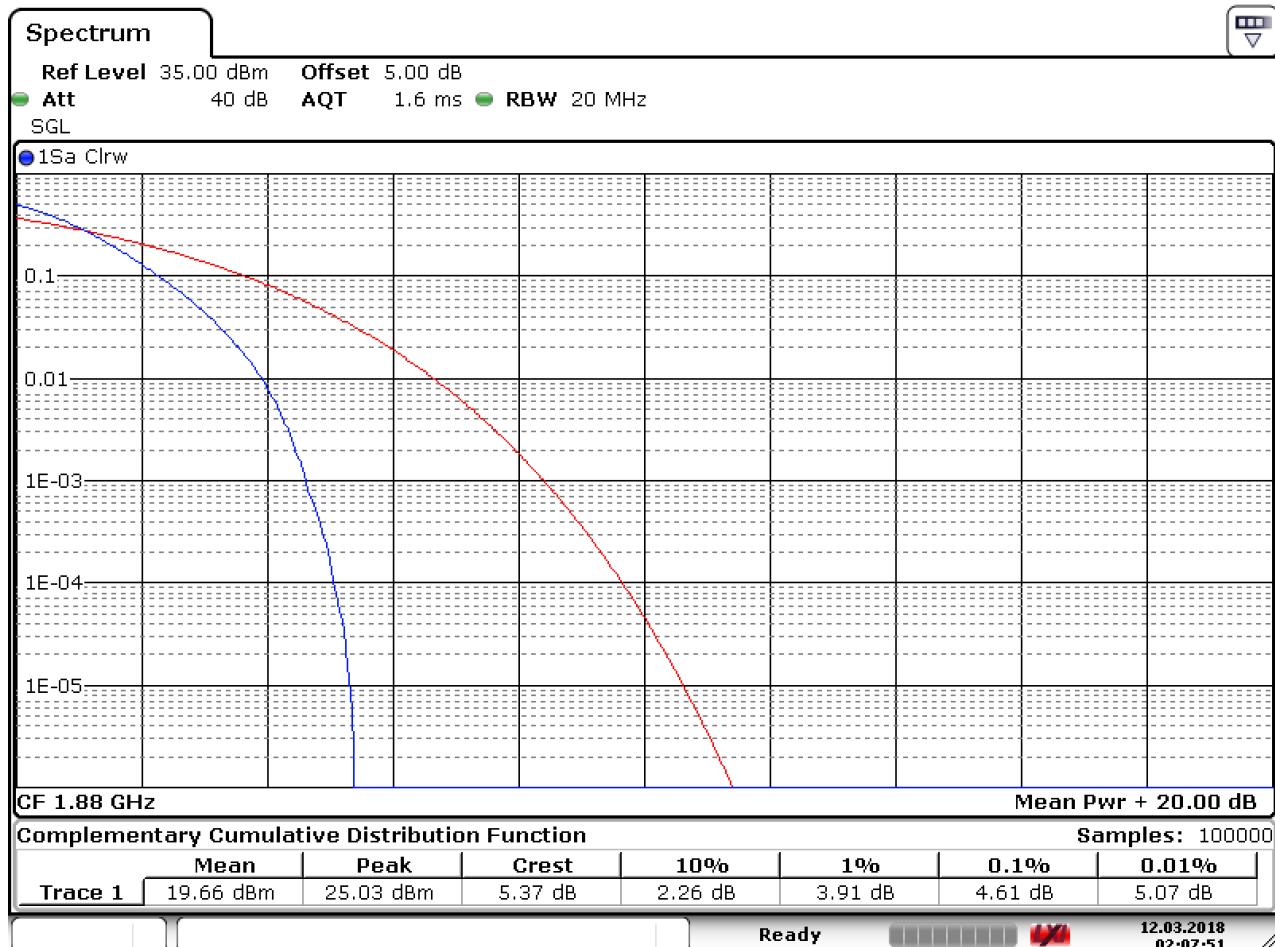
2.1.1 Test Band = LTE band2

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

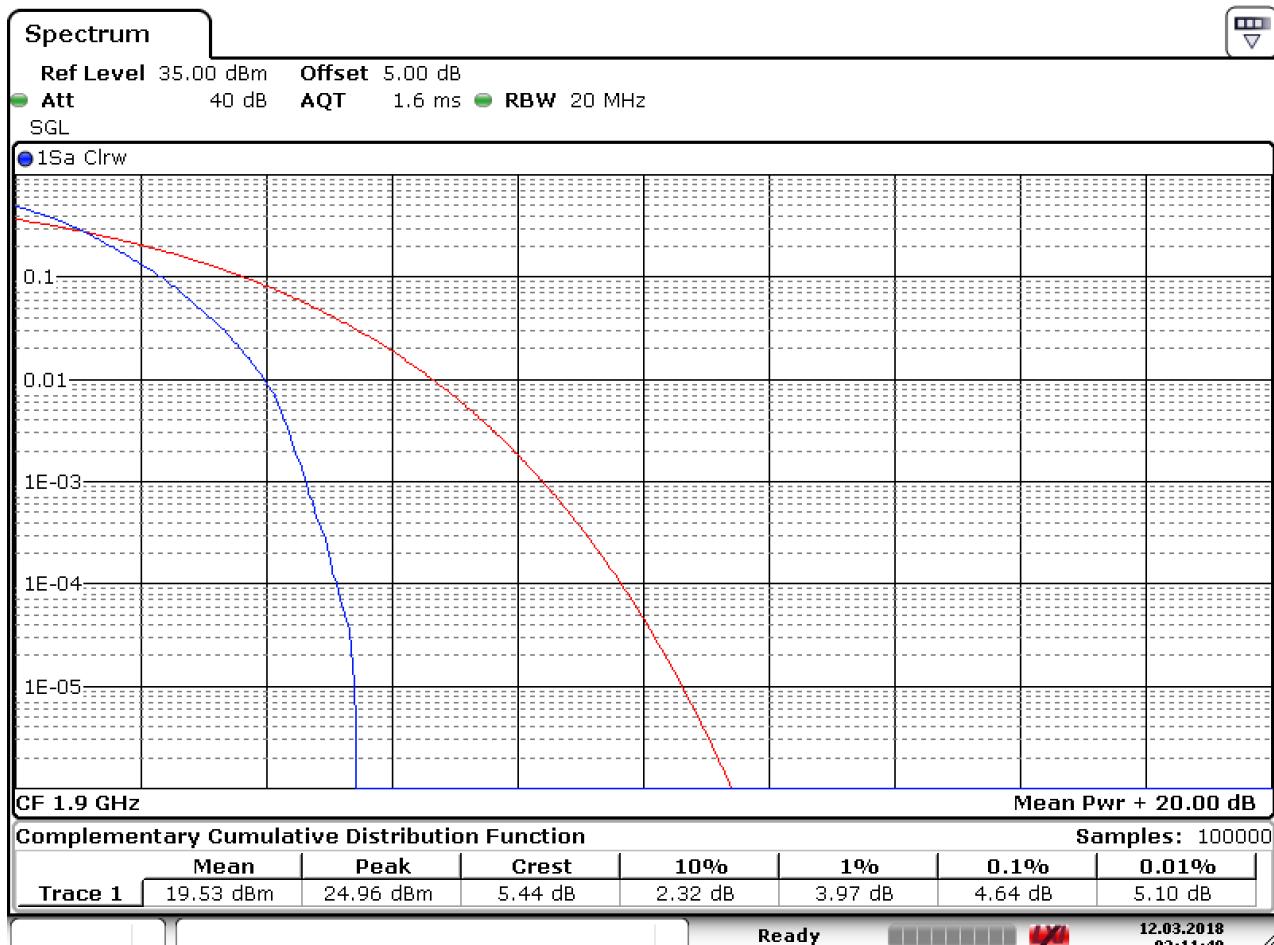
2.1.1.1.1 Test Channel = LCH



Date: 12.MAR.2018 02:10:46

2.1.1.1.2 Test Channel = MCH

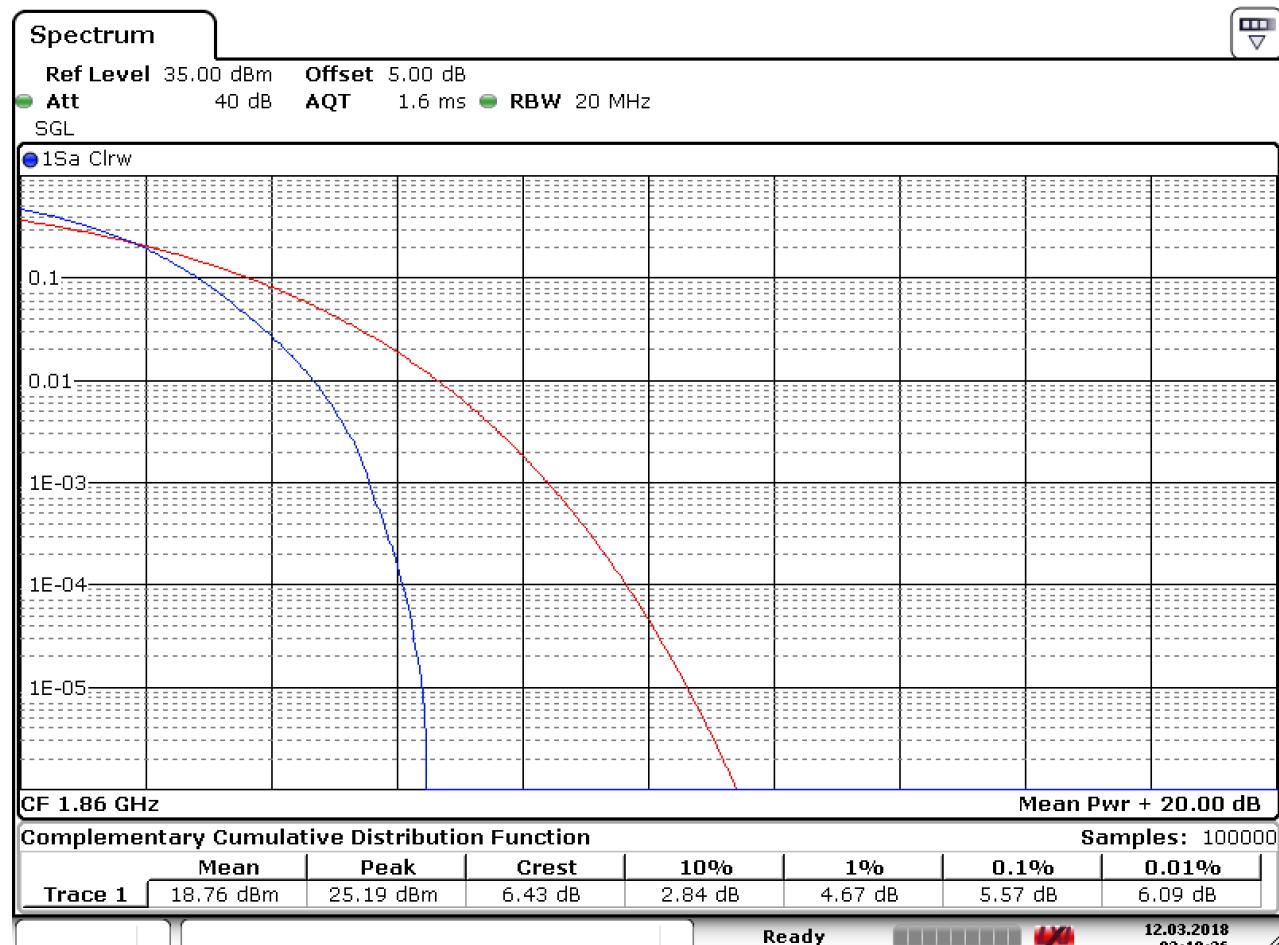
Date: 12.MAR.2018 02:07:51

2.1.1.1.3 Test Channel = HCH

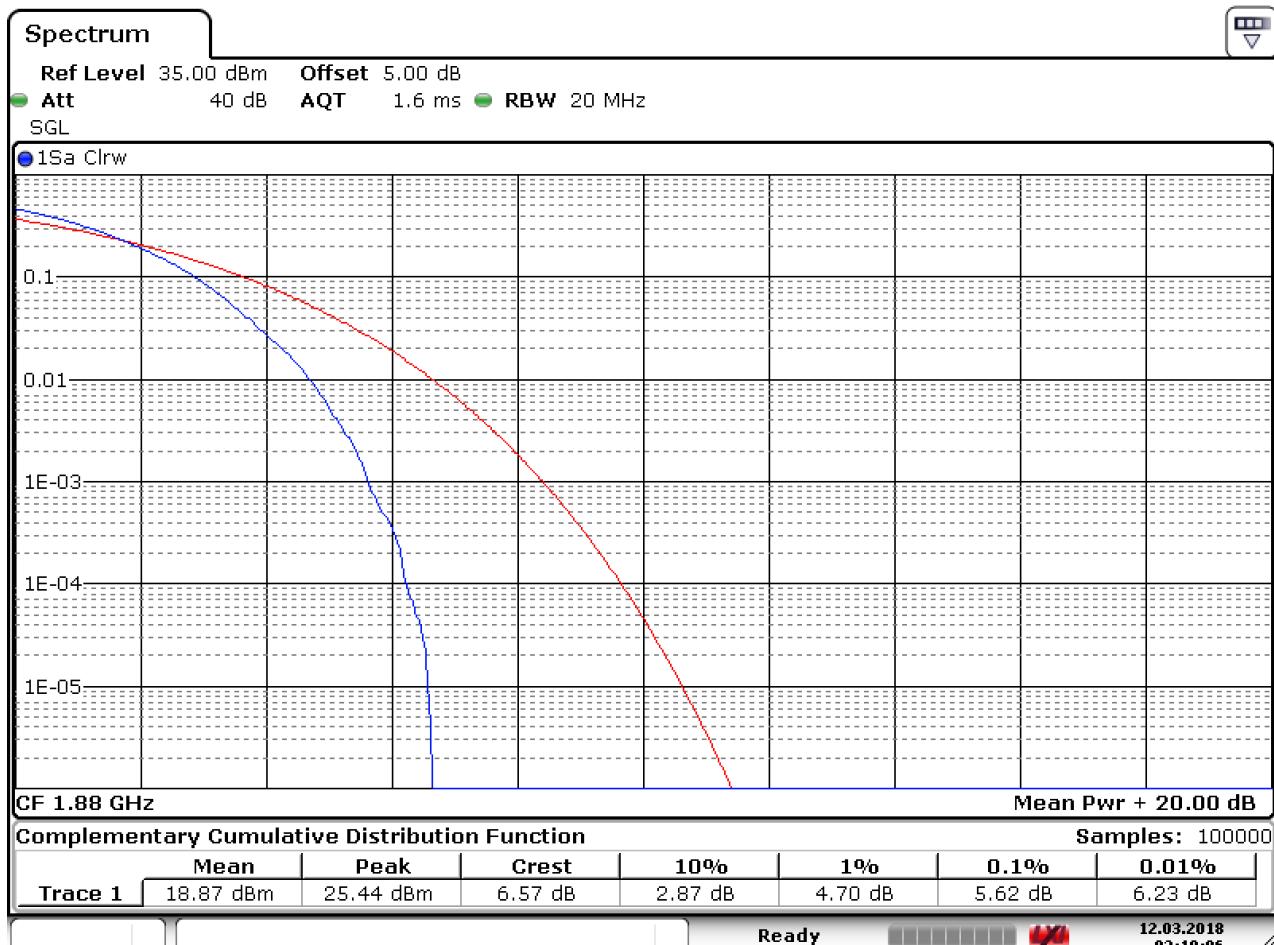
Date: 12.MAR.2018 02:11:40

2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

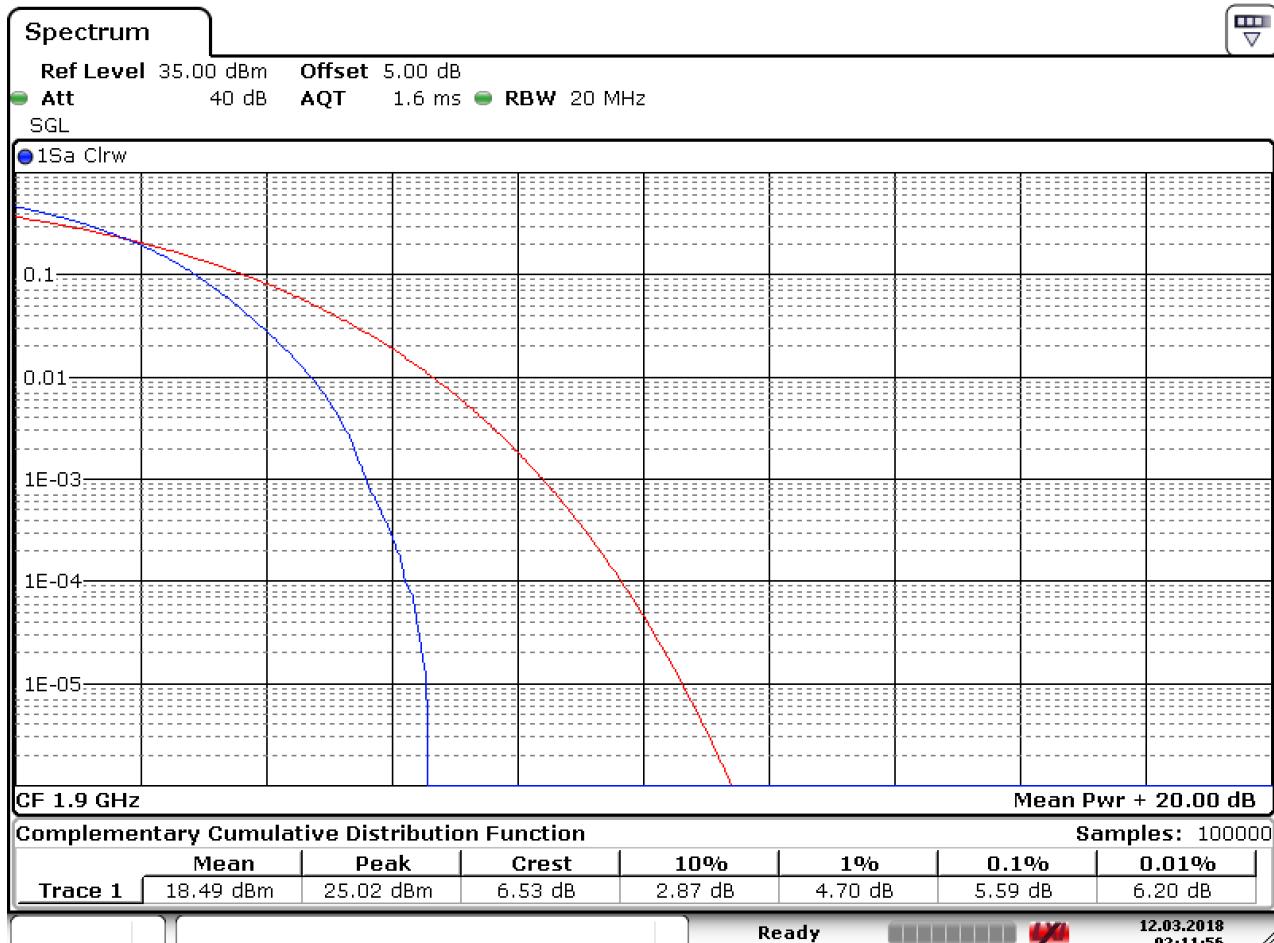
2.1.1.2.1 Test Channel = LCH



Date: 12.MAR.2018 02:10:27

2.1.1.2.2 Test Channel = MCH

Date: 12.MAR.2018 02:10:06

Test Channel = HCH

Date: 12.MAR.2018 02:11:57

3 Modulation Characteristics

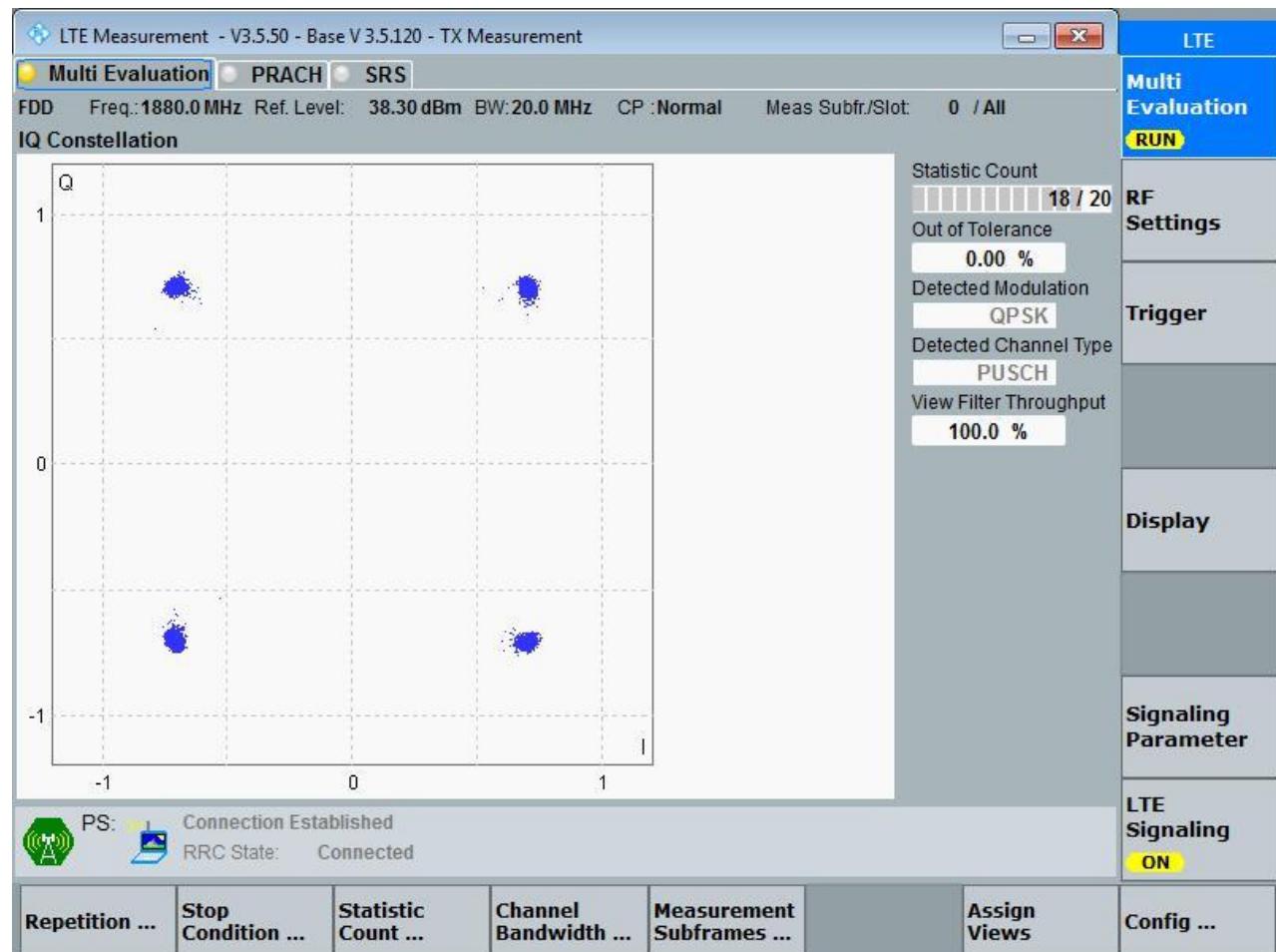
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band2

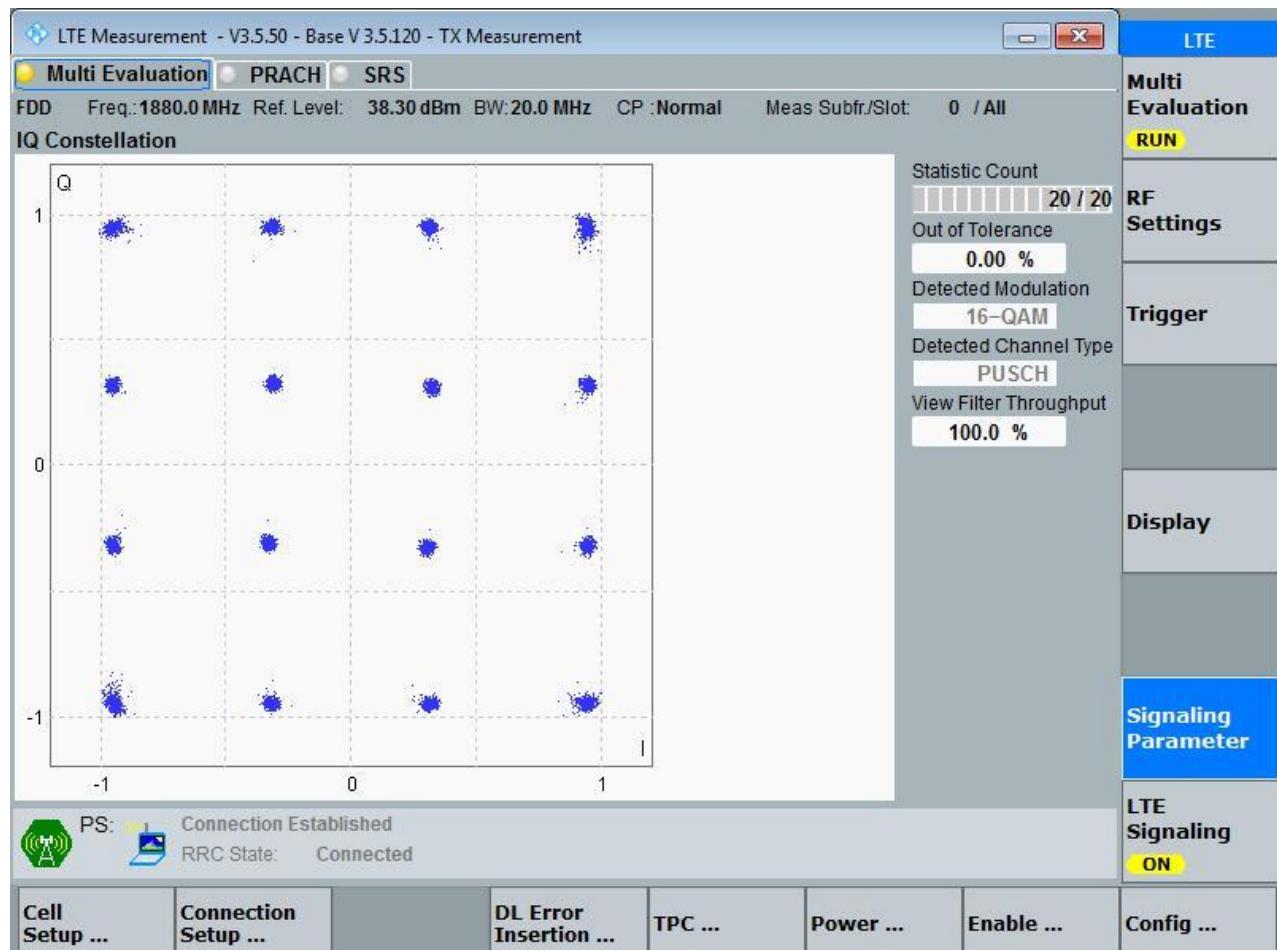
3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH



4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band2	TM1/1.4MHz	LCH	1.10	1.31	PASS
		MCH	1.10	1.31	PASS
		HCH	1.10	1.31	PASS
	TM2/1.4MHz	LCH	1.10	1.30	PASS
		MCH	1.10	1.31	PASS
		HCH	1.10	1.29	PASS
	TM1/ 3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.97	PASS
		HCH	2.69	2.93	PASS
	TM2/3MHz	LCH	2.68	2.94	PASS
		MCH	2.69	2.94	PASS
		HCH	2.69	2.97	PASS
	TM1/ 5MHz	LCH	4.48	4.94	PASS
		MCH	4.49	4.94	PASS
		HCH	4.47	4.93	PASS
	TM2/ 5MHz	LCH	4.49	4.89	PASS
		MCH	4.48	4.93	PASS
		HCH	4.49	4.94	PASS
	TM1/10MHz	LCH	8.91	9.71	PASS
		MCH	8.95	9.73	PASS
		HCH	8.95	9.75	PASS
	TM2/ 10MHz	LCH	8.91	9.67	PASS
		MCH	8.91	9.63	PASS
		HCH	8.95	9.69	PASS
	TM1/ 15MHz	LCH	13.40	14.81	PASS
		MCH	13.40	14.69	PASS
		HCH	13.46	14.78	PASS
	TM2/ 15MHz	LCH	13.46	14.72	PASS
		MCH	13.43	14.75	PASS
		HCH	13.49	14.81	PASS
	TM1/ 20MHz	LCH	17.86	19.14	PASS
		MCH	17.86	19.30	PASS
		HCH	17.86	19.54	PASS
	TM2/ 20MHz	LCH	17.86	19.34	PASS
		MCH	17.86	19.38	PASS
		HCH	17.94	19.30	PASS

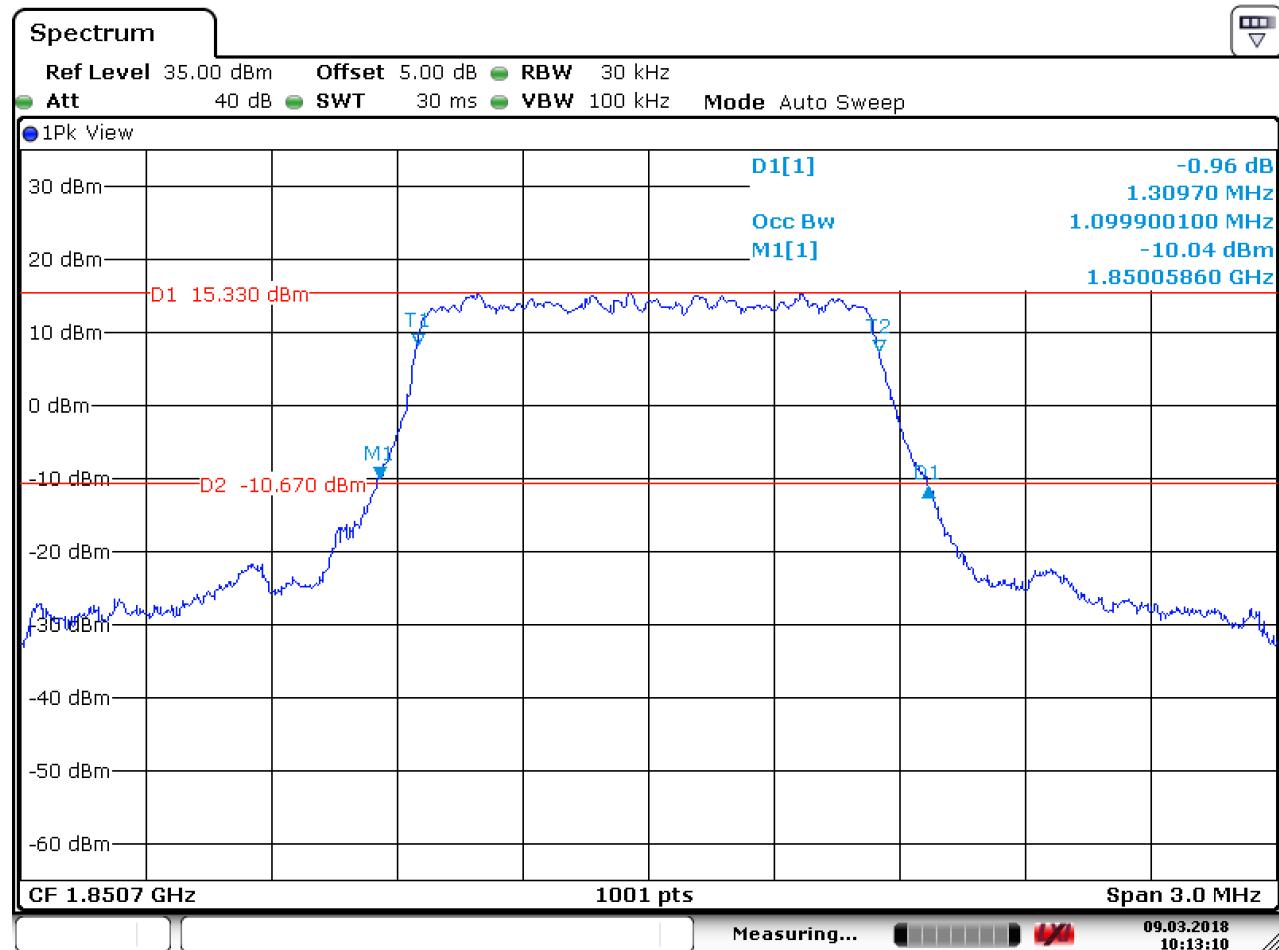
Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band2

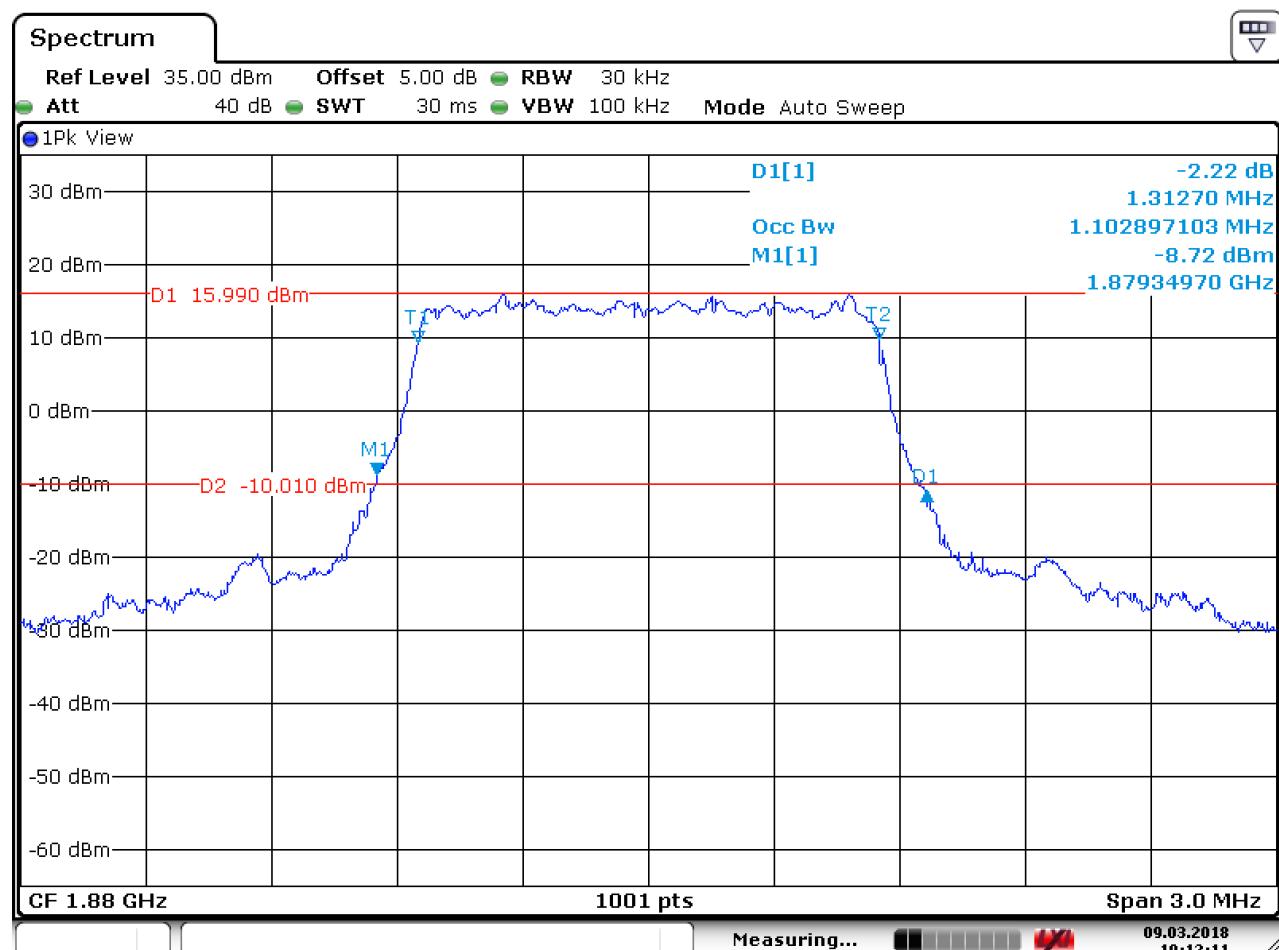
4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH



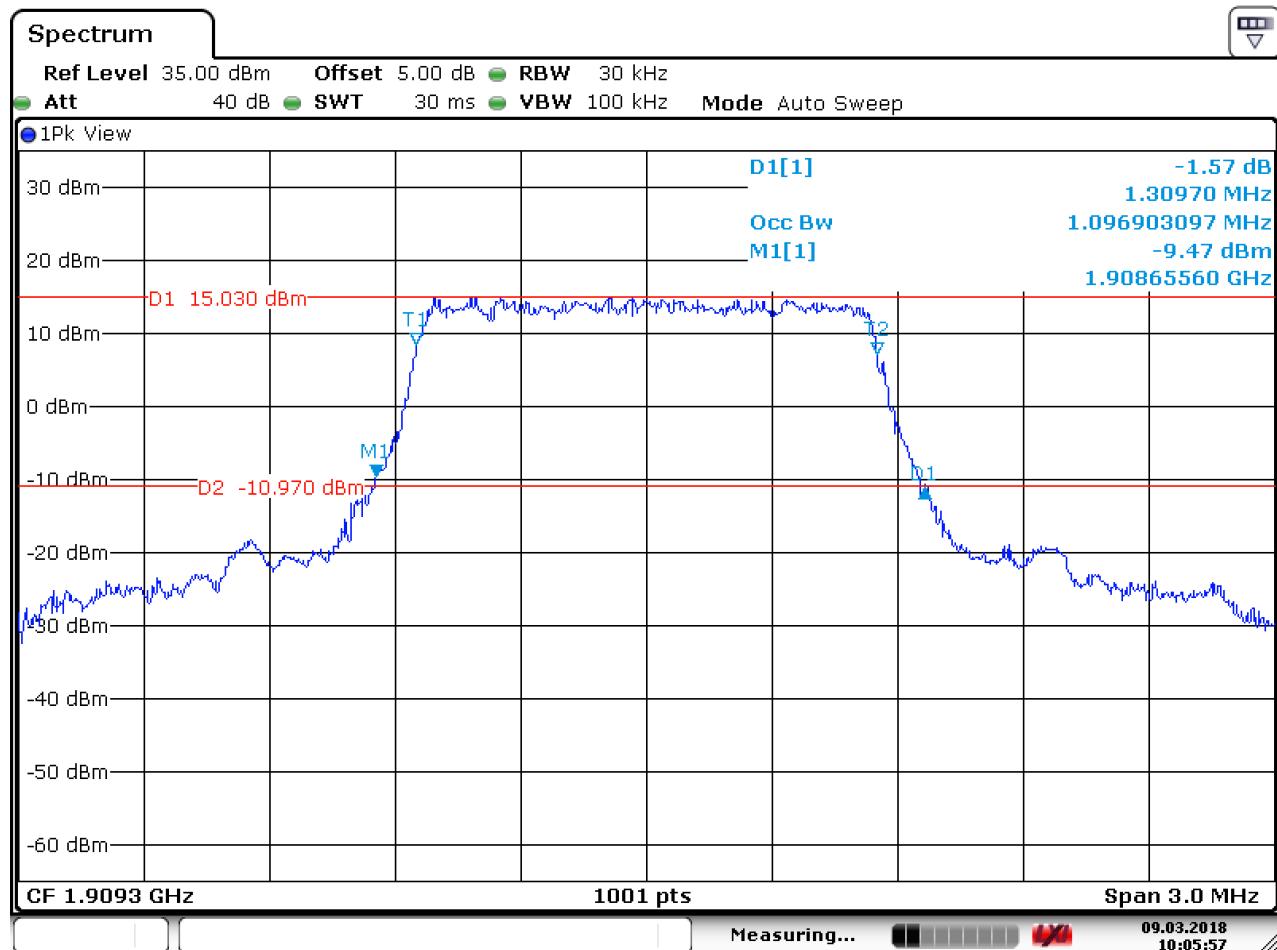
Date: 9.MAR.2018 10:13:10

4.1.1.1.2 Test Channel = MCH

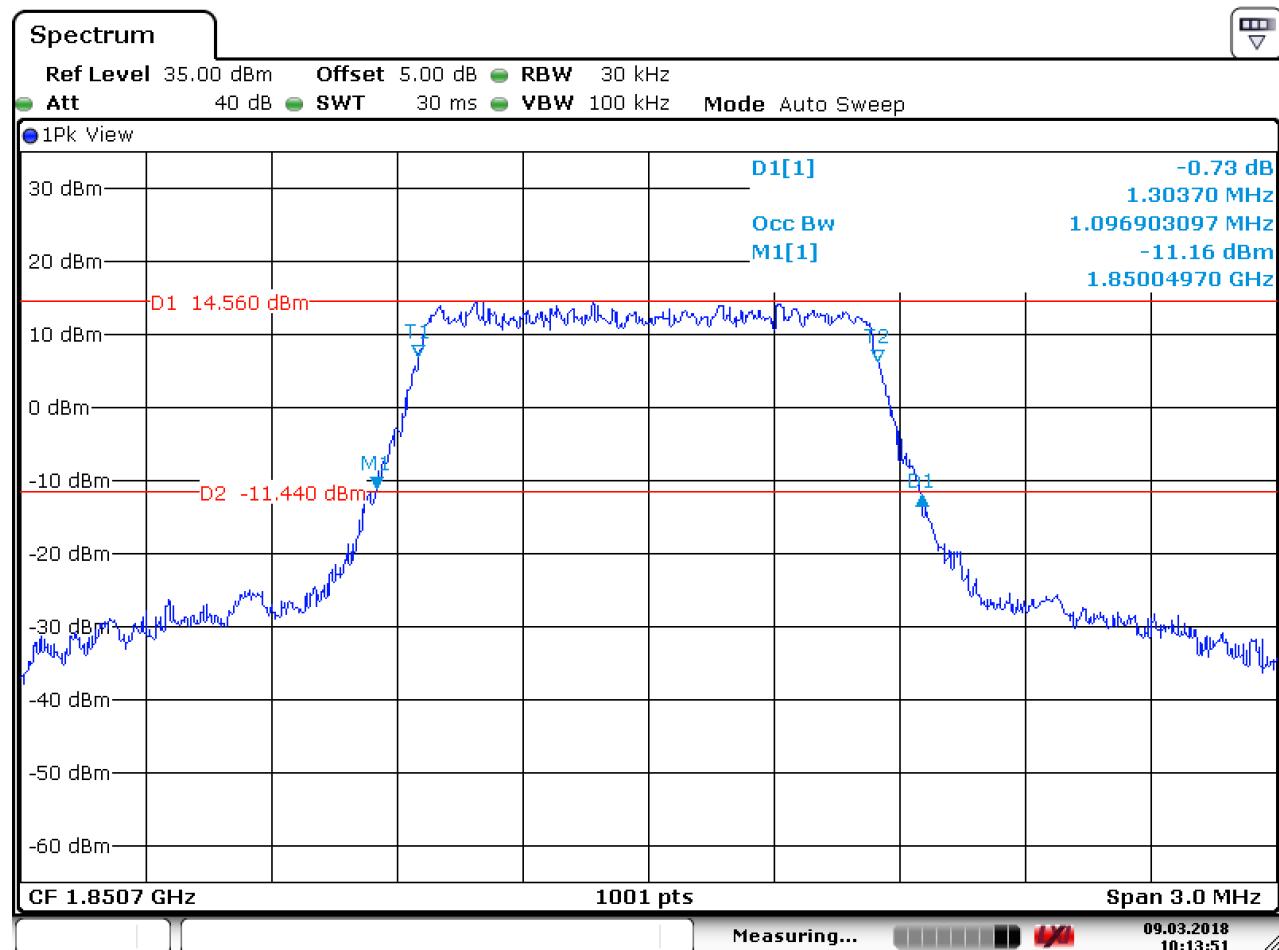


Date: 9.MAR.2018 10:12:11

4.1.1.1.3 Test Channel = HCH

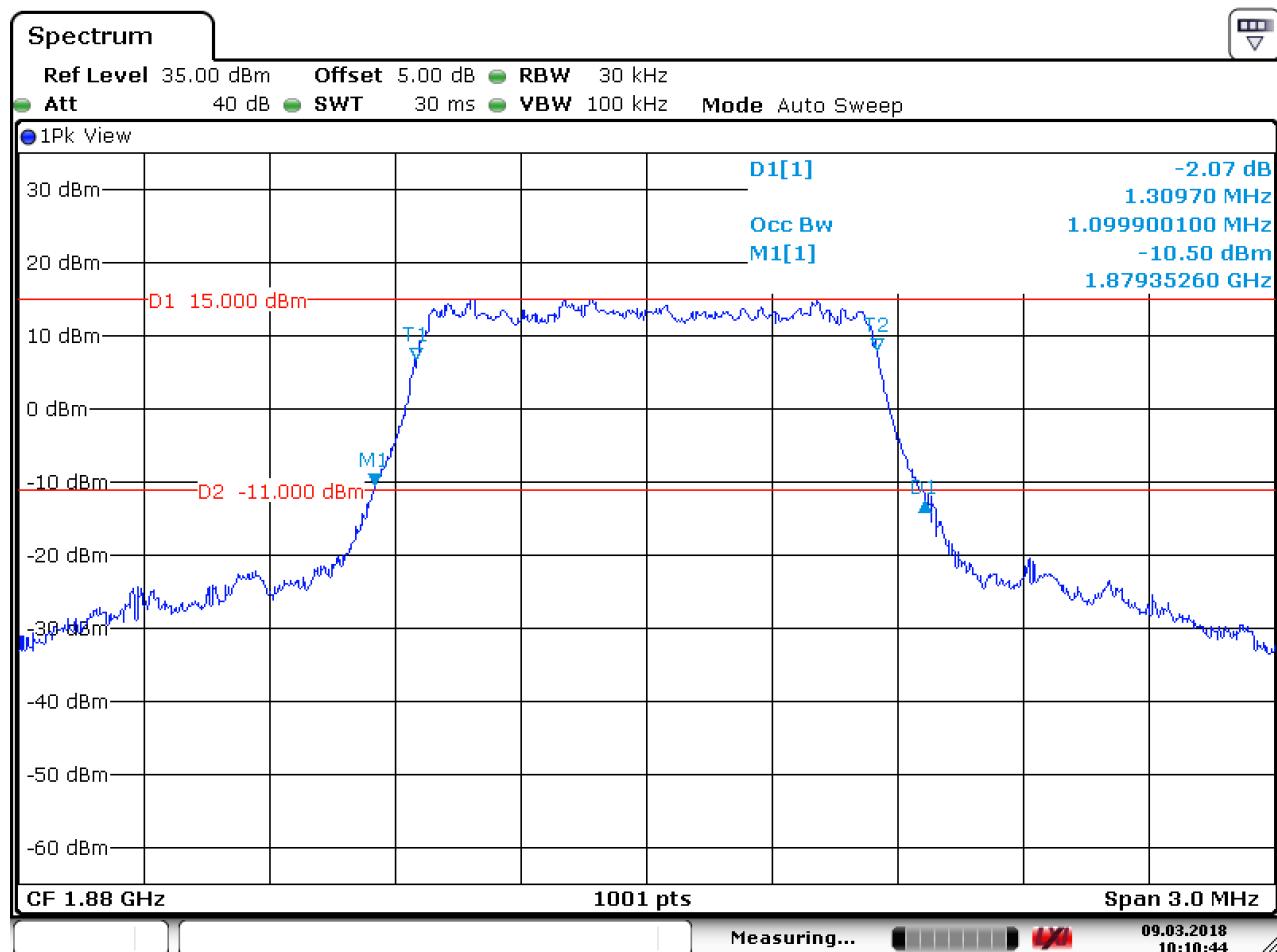


Date: 9.MAR.2018 10:05:57

4.1.1.2 Test Mode = LTE/TM2 1.4MHz**4.1.1.2.1 Test Channel = LCH**

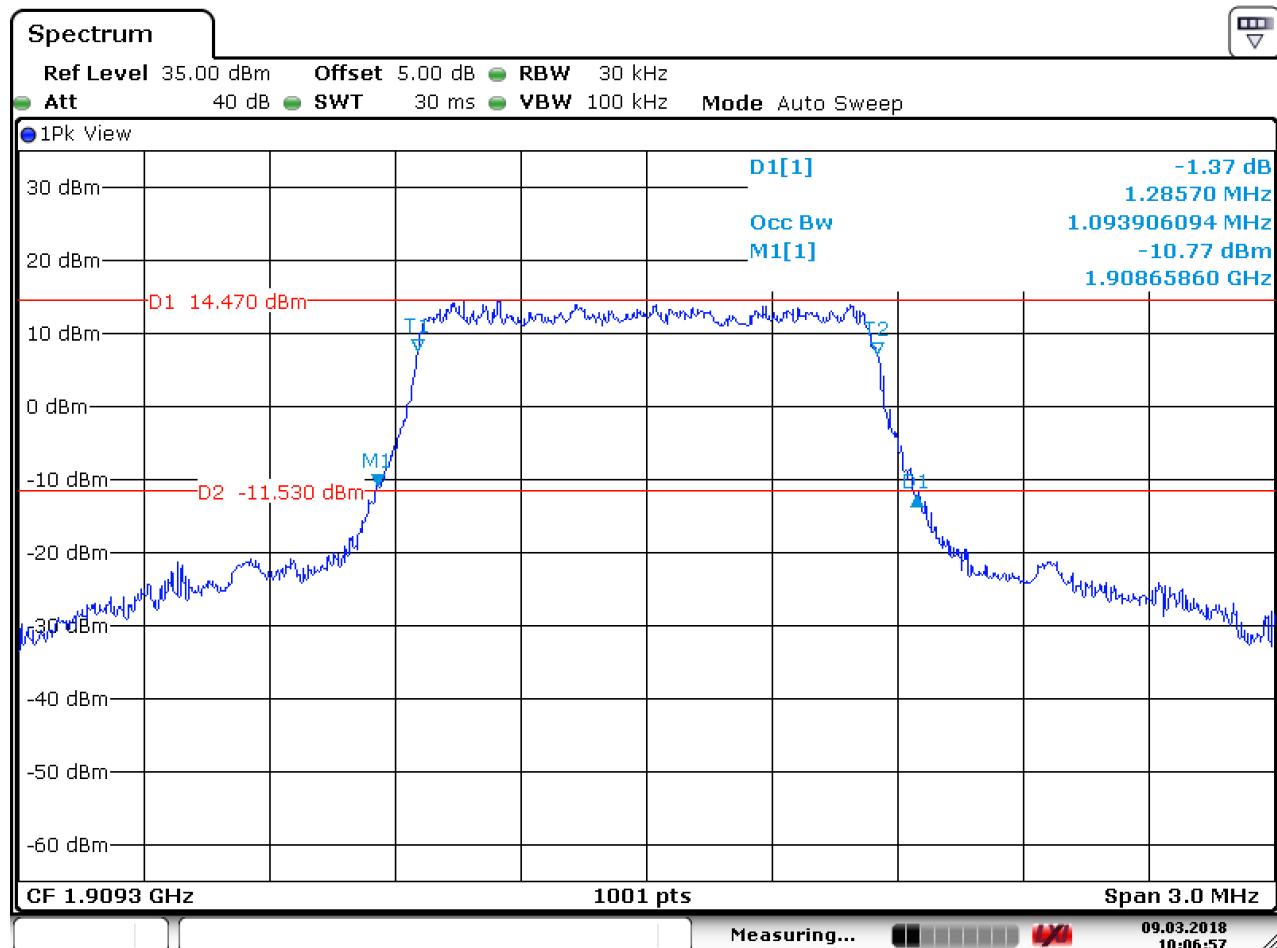
Date: 9.MAR.2018 10:13:52

4.1.1.2.2 Test Channel = MCH



Date: 9.MAR.2018 10:10:44

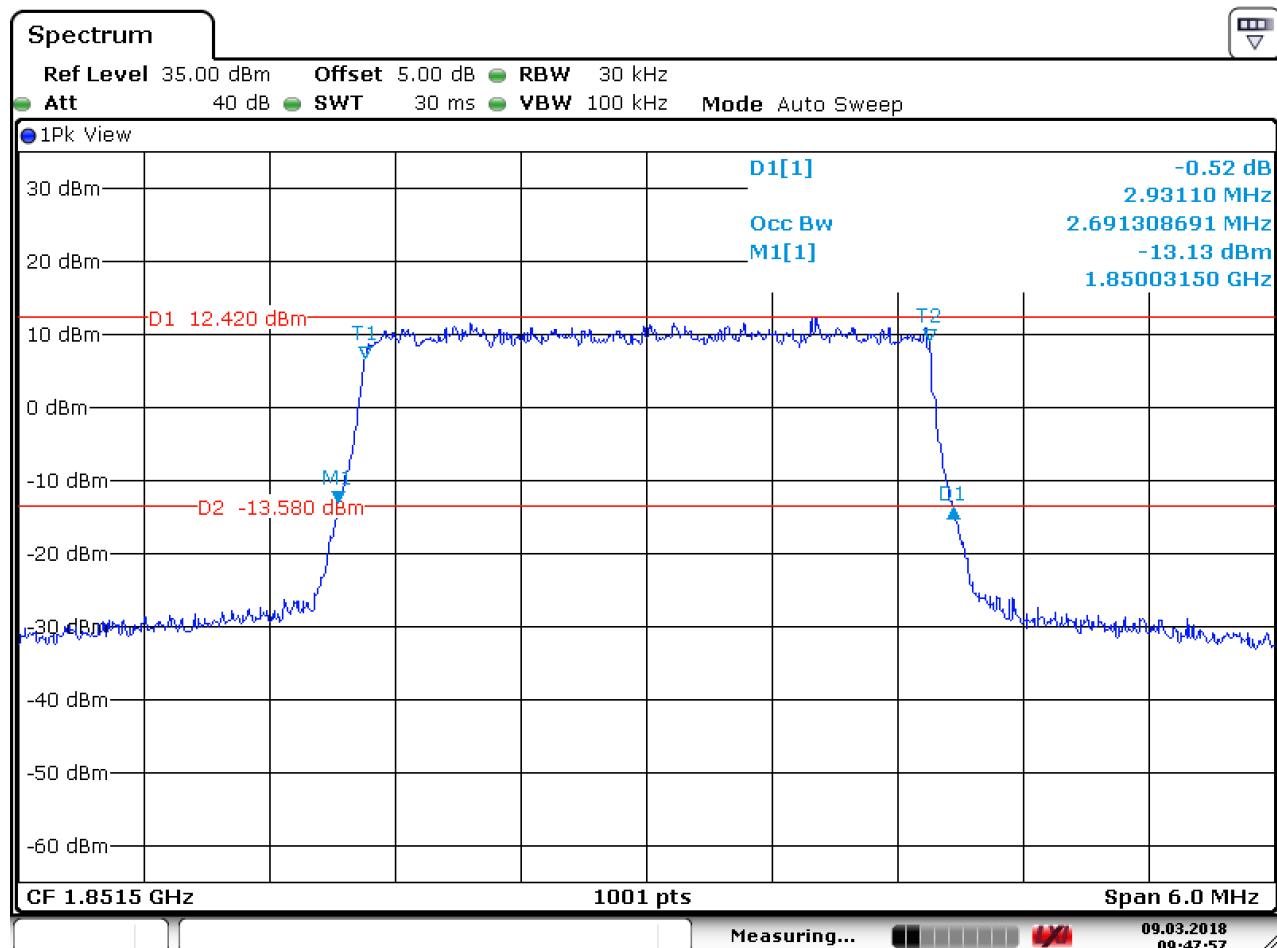
4.1.1.2.3 Test Channel = HCH



Date: 9.MAR.2018 10:06:57

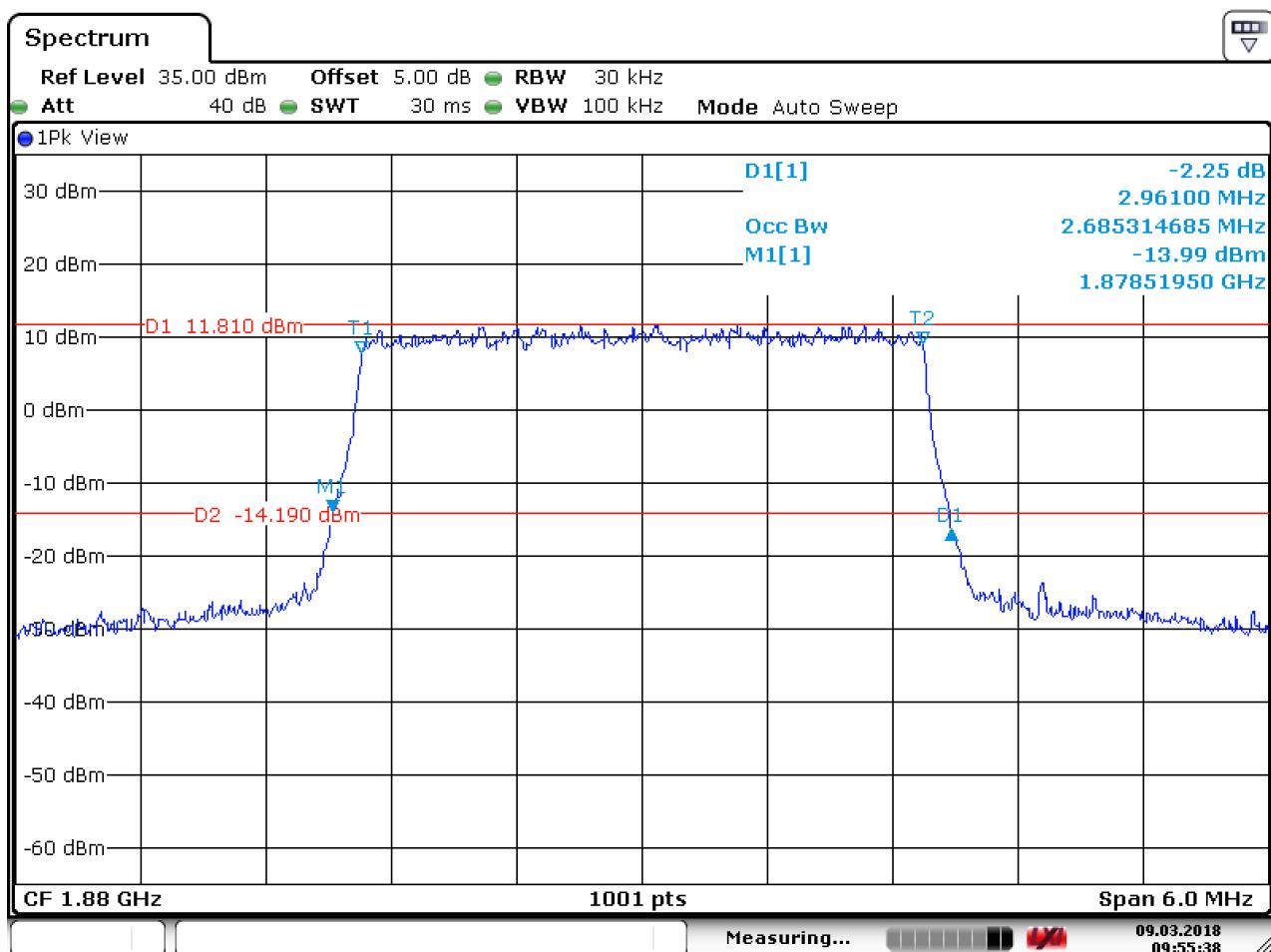
4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH



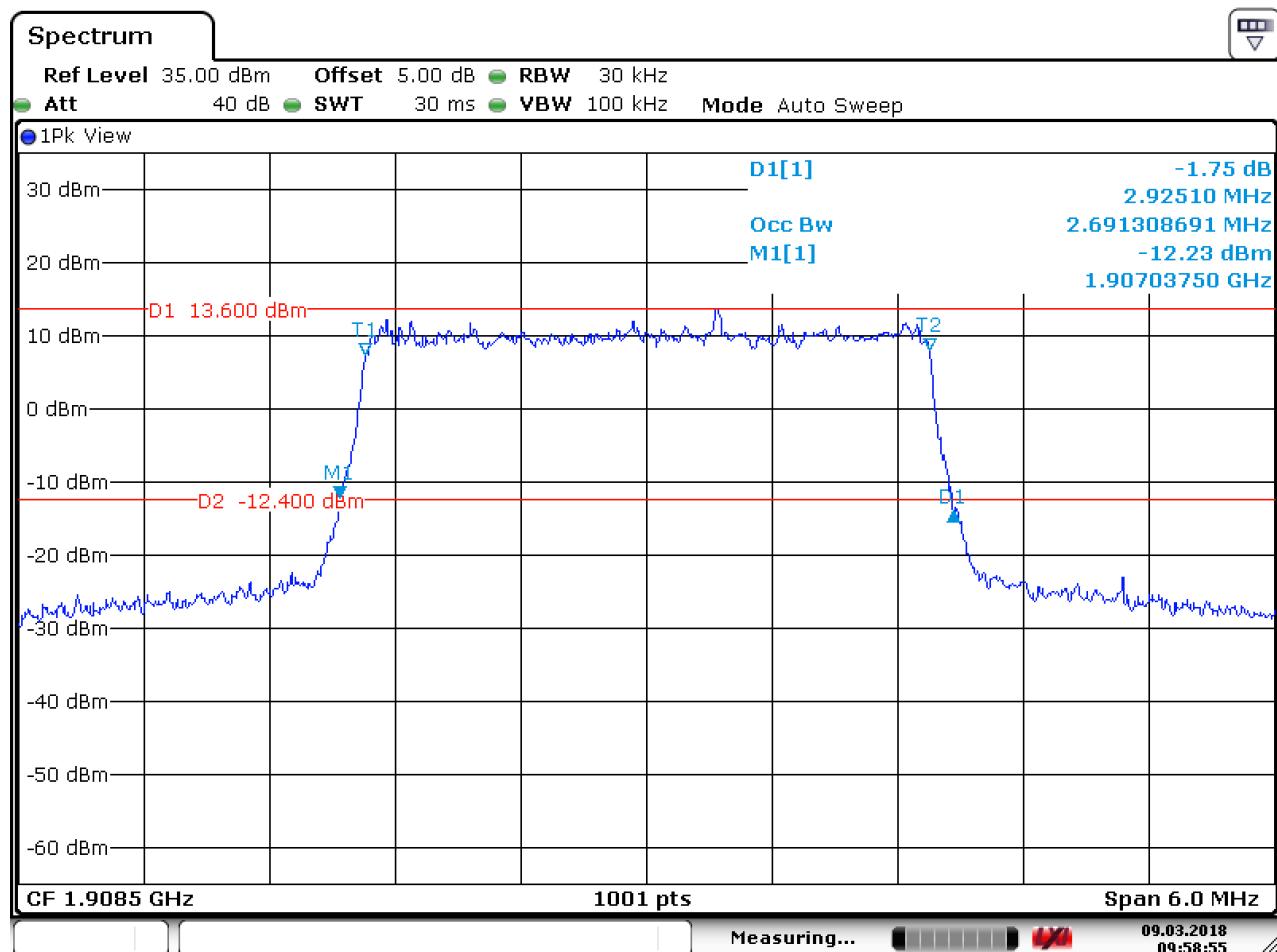
Date: 9.MAR.2018 09:47:57

4.1.1.3.2 Test Channel = MCH

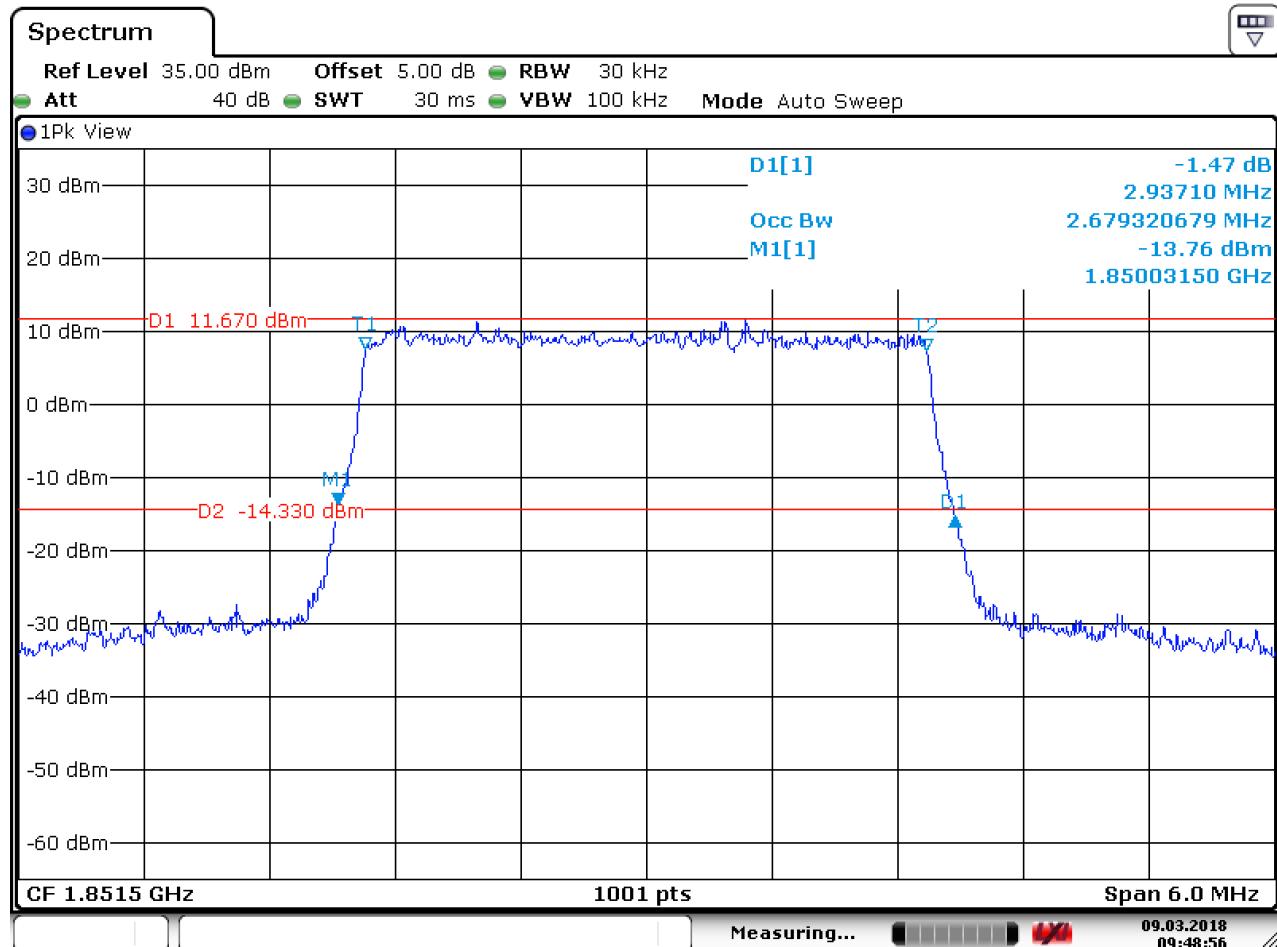


Date: 9.MAR.2018 09:55:38

4.1.1.3.3 Test Channel = HCH

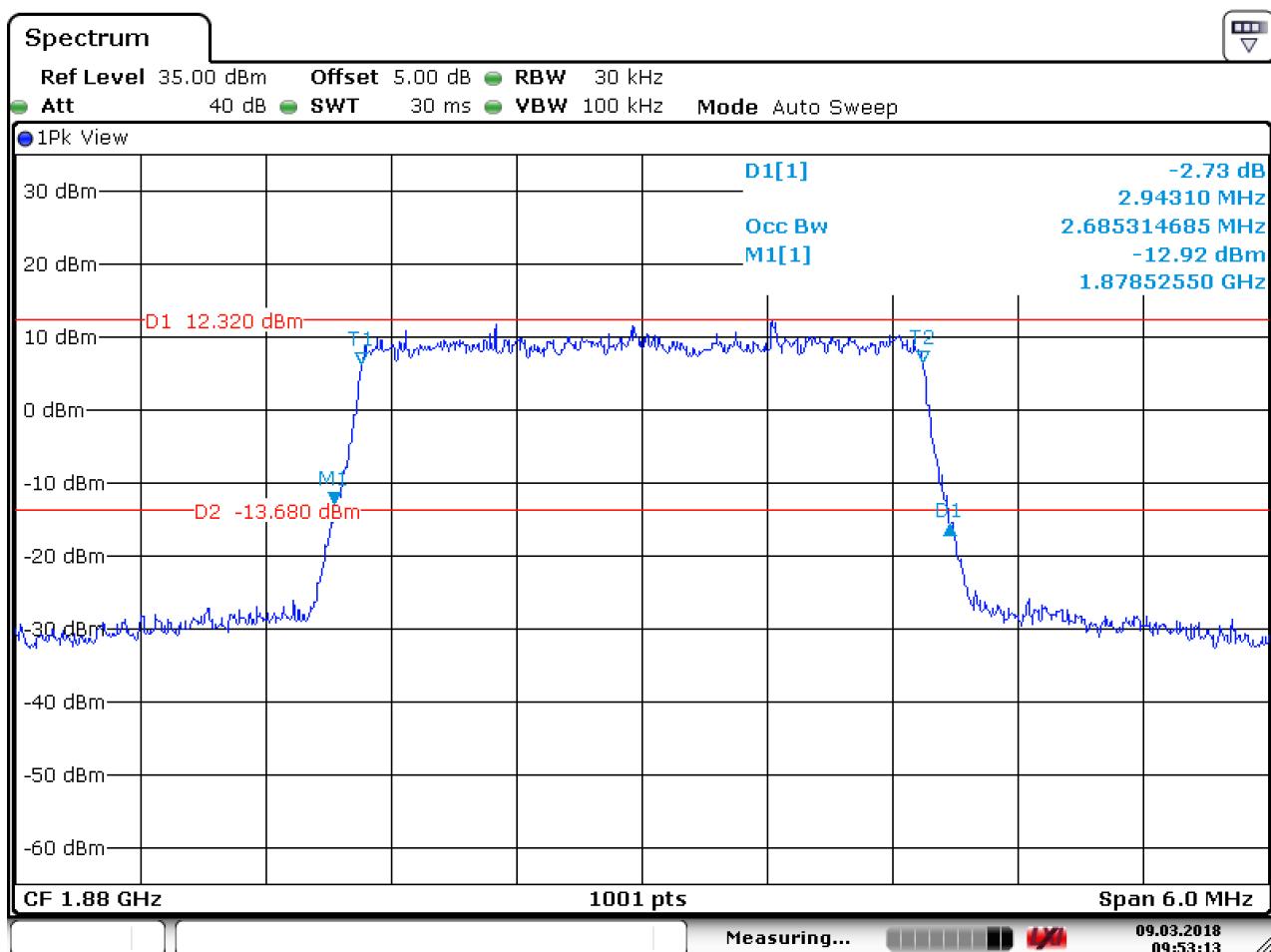


Date: 9.MAR.2018 09:58:55

4.1.1.4 Test Mode = LTE/TM2 3MHz**4.1.1.4.1 Test Channel = LCH**

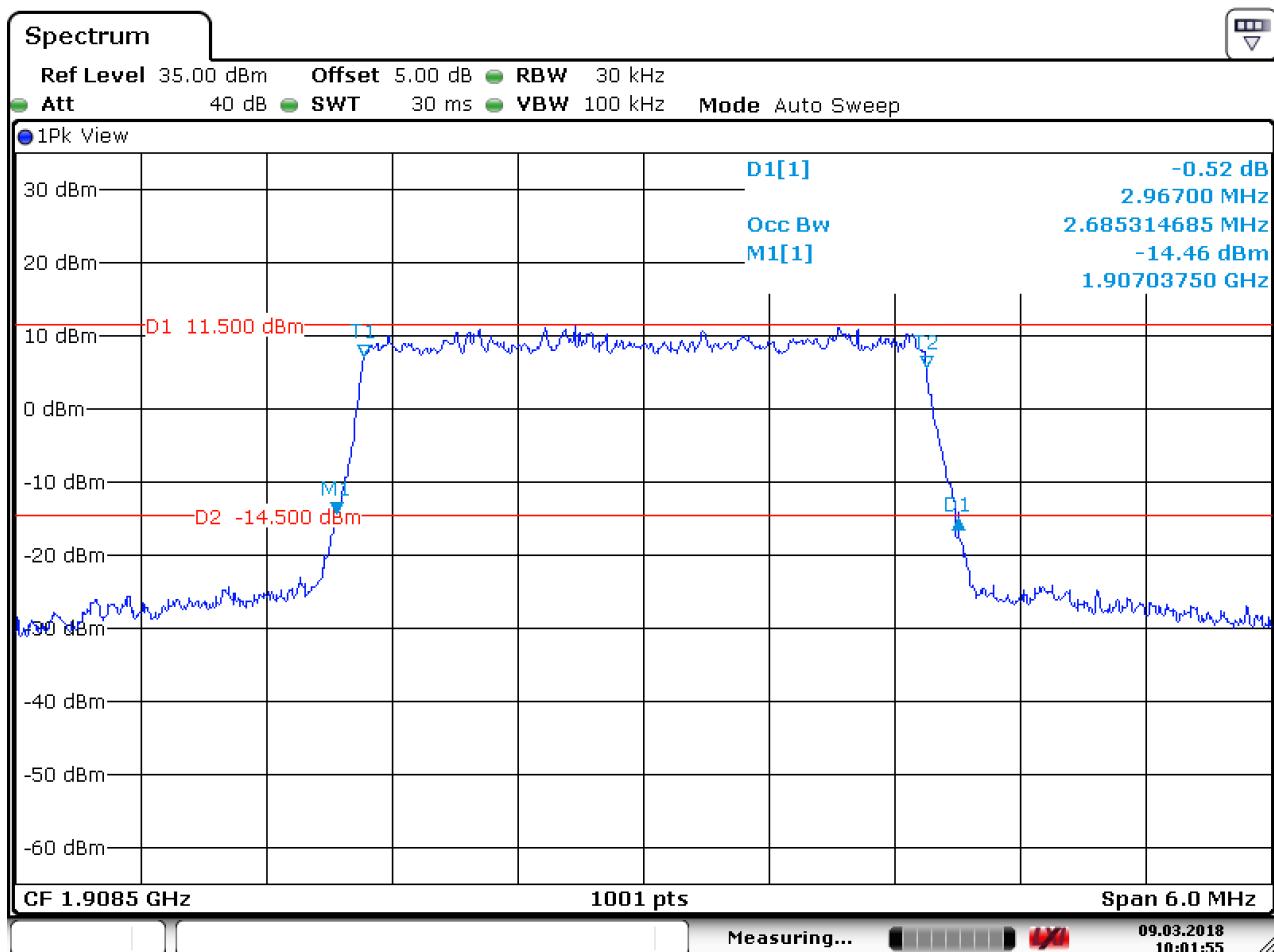
Date: 9.MAR.2018 09:48:56

4.1.1.4.2 Test Channel = MCH

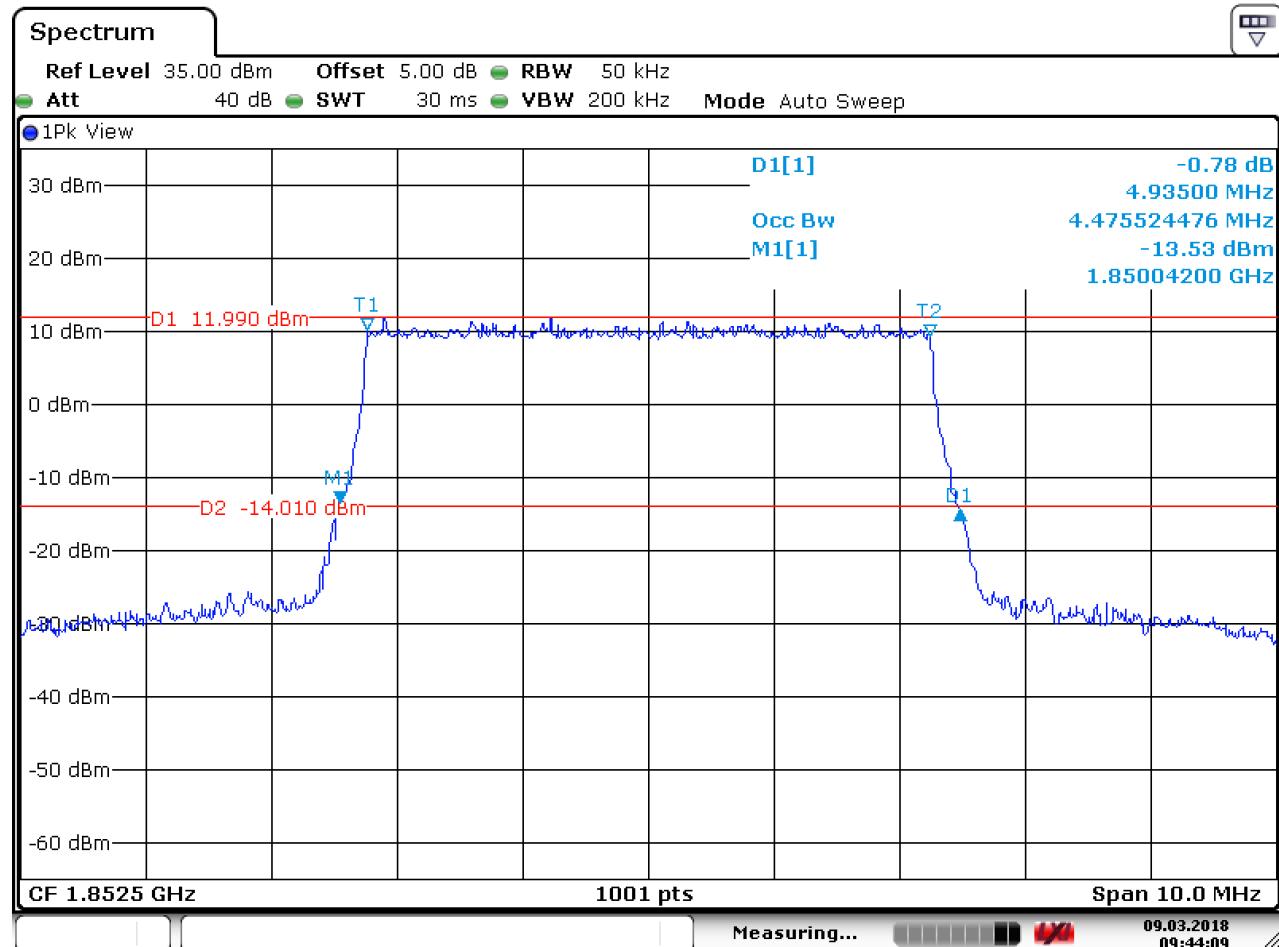


Date: 9.MAR.2018 09:53:14

4.1.1.4.3 Test Channel = HCH

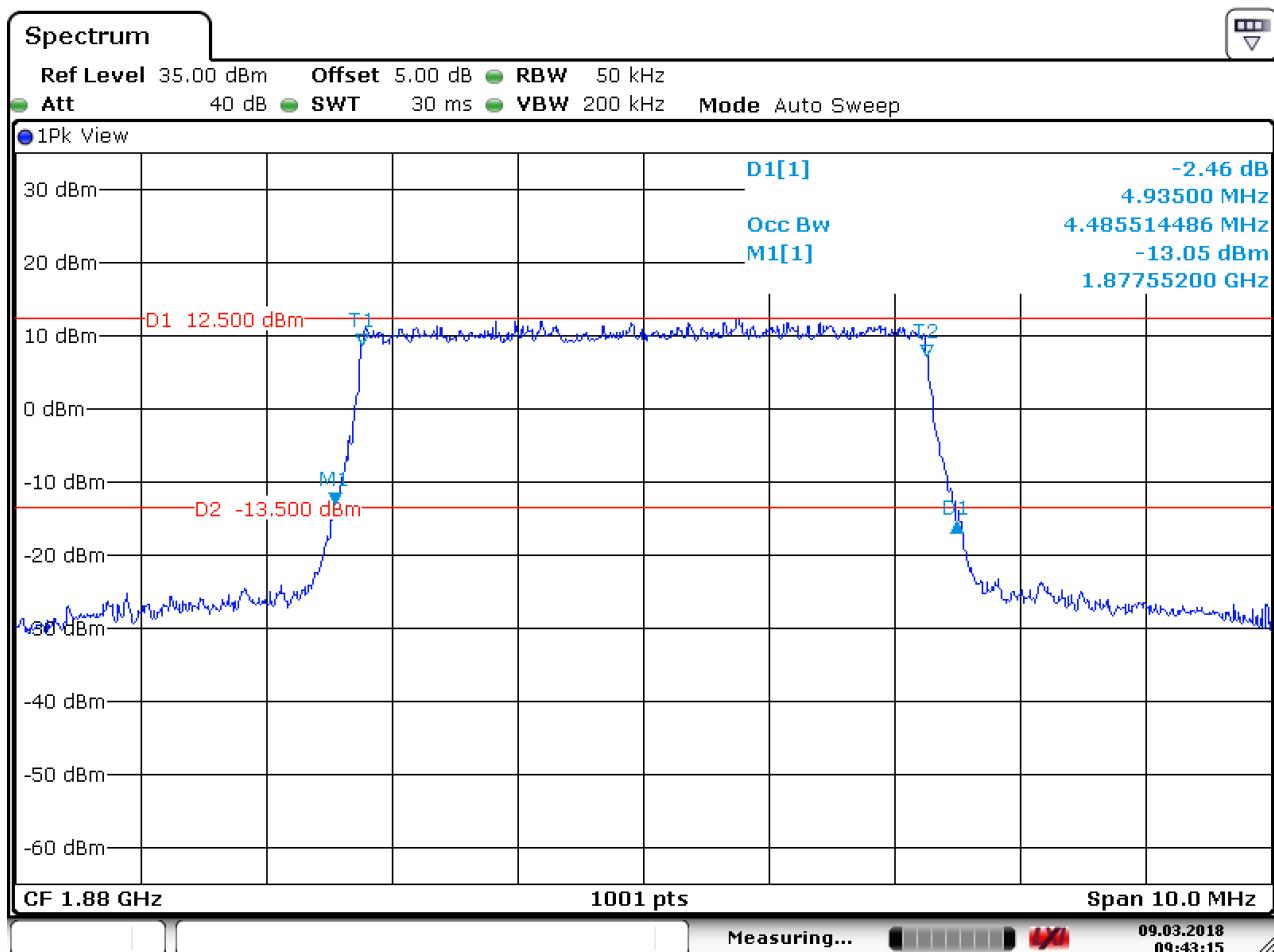


Date: 9.MAR.2018 10:01:56

4.1.1.5 Test Mode = LTE/TM1 5MHz**4.1.1.5.1 Test Channel = LCH**

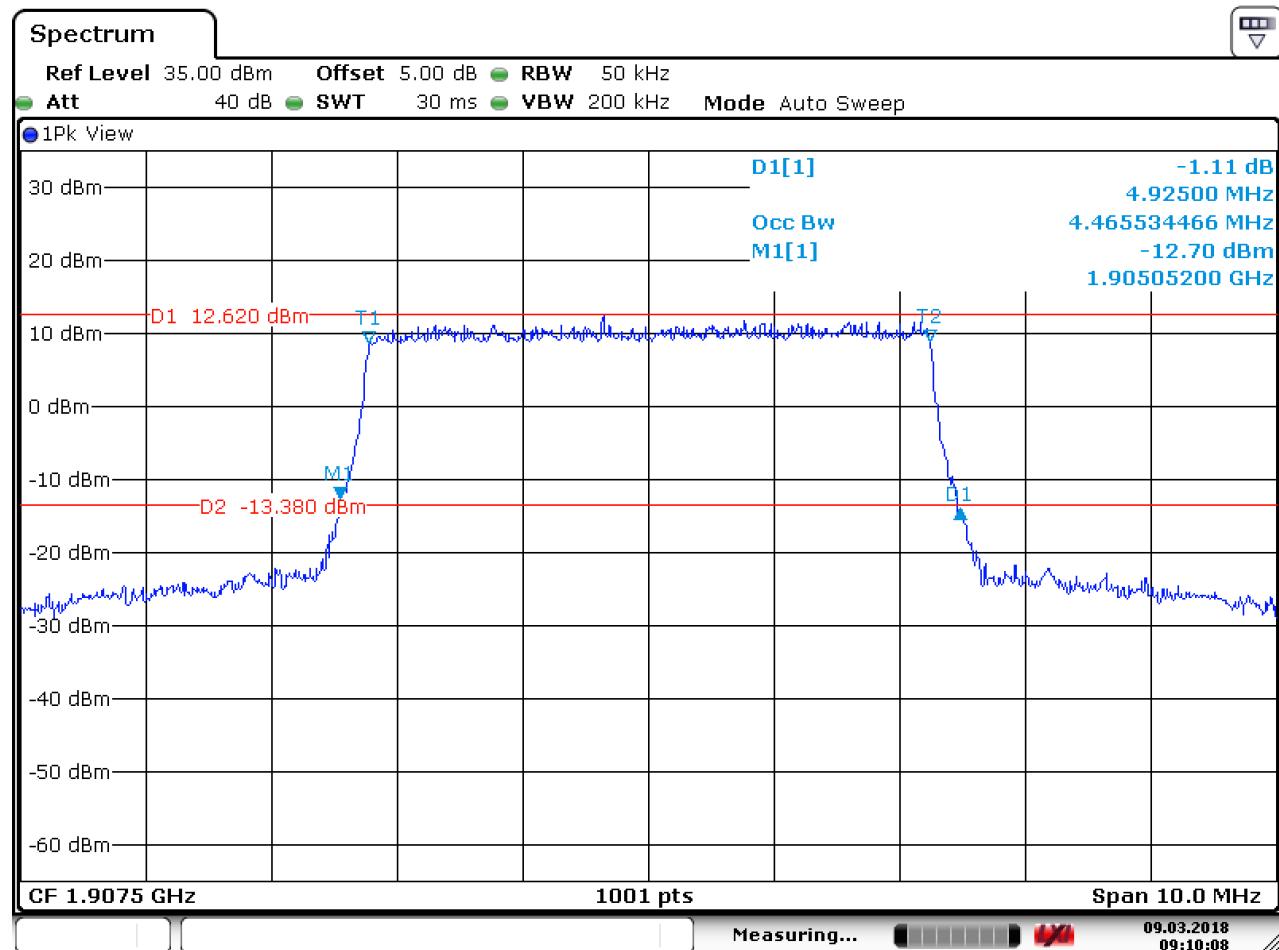
Date: 9.MAR.2018 09:44:09

4.1.1.5.2 Test Channel = MCH



Date: 9.MAR.2018 09:43:15

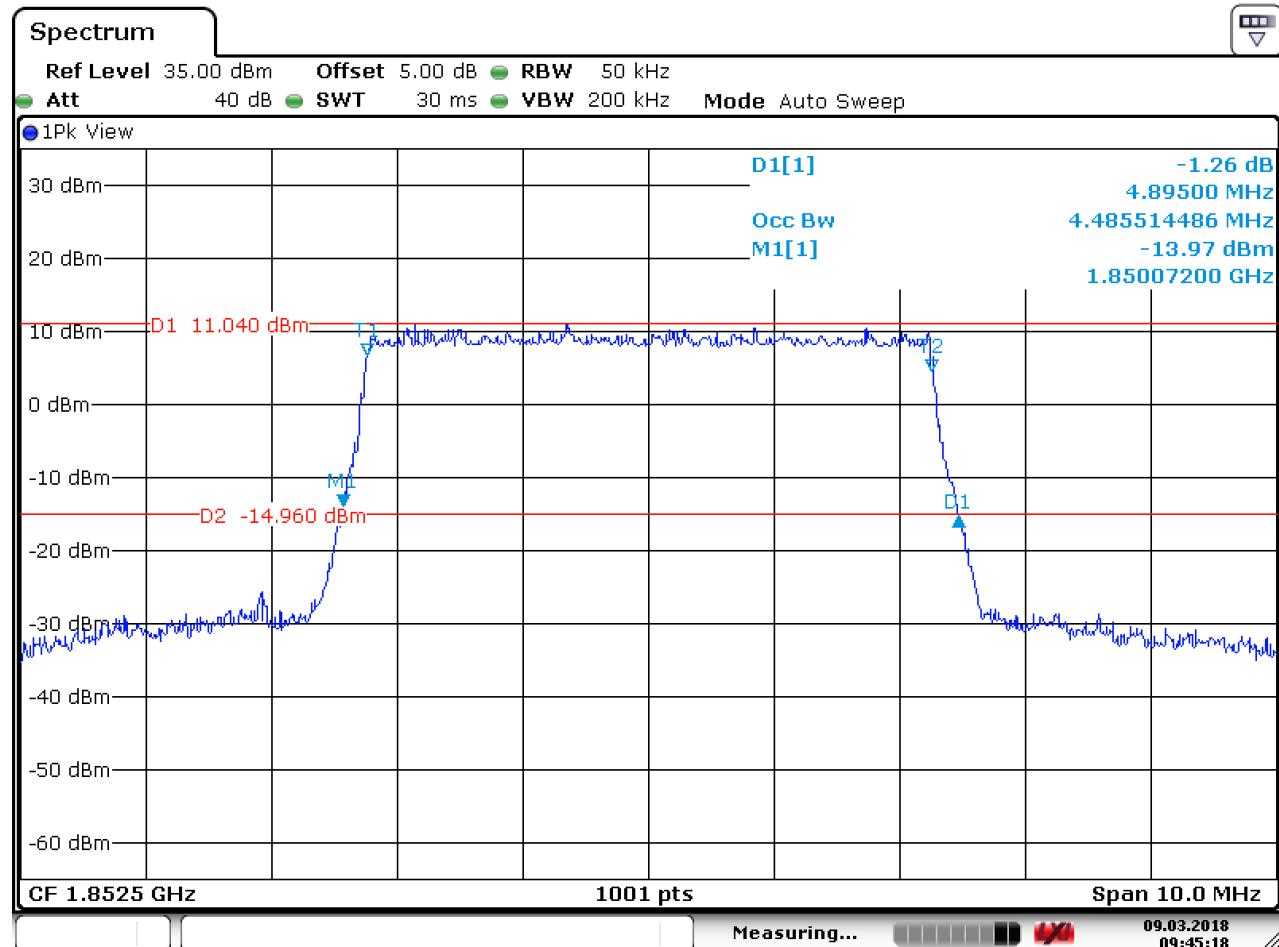
4.1.1.5.3 Test Channel = HCH



Date: 9.MAR.2018 09:10:09

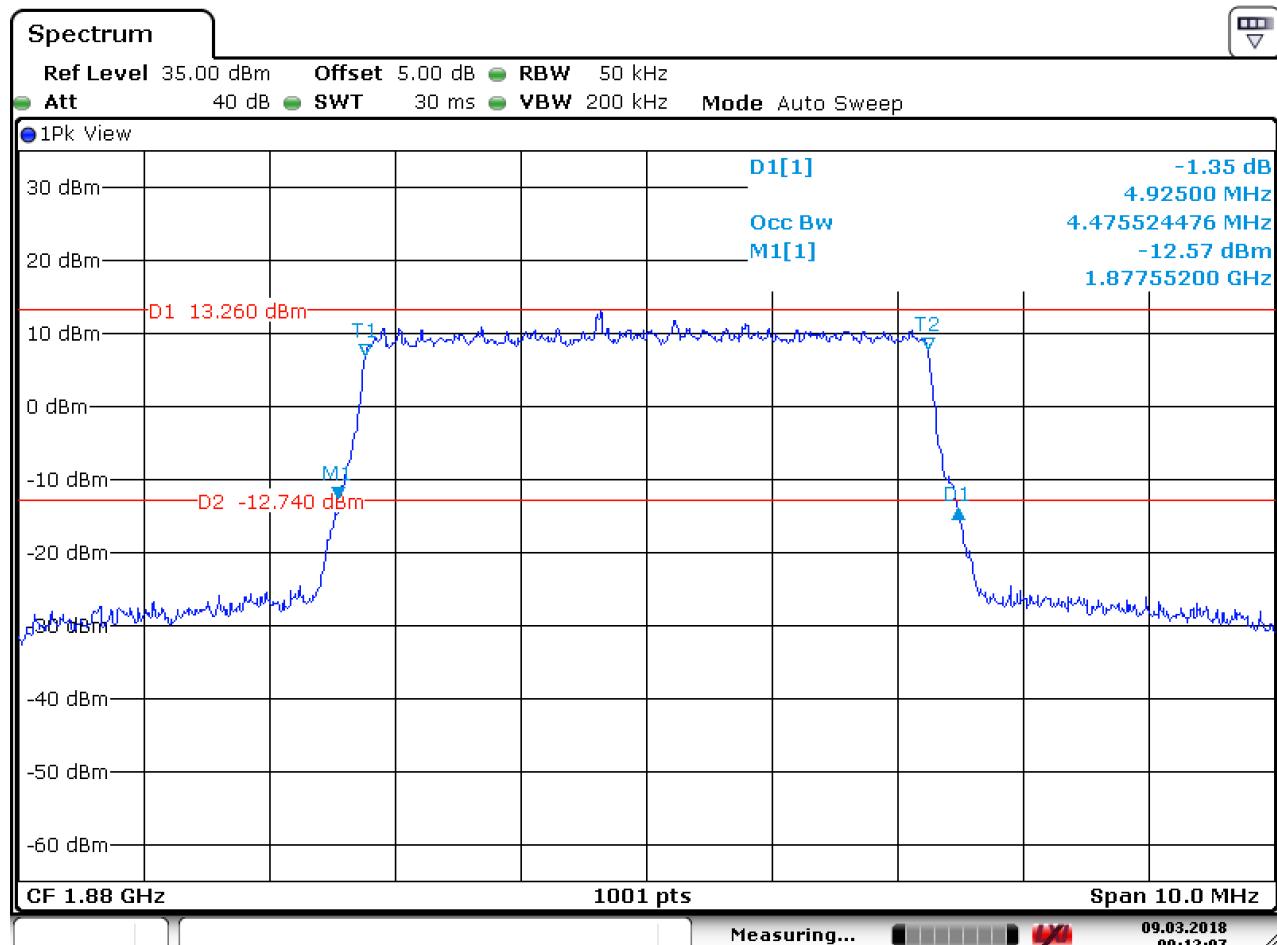
4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH



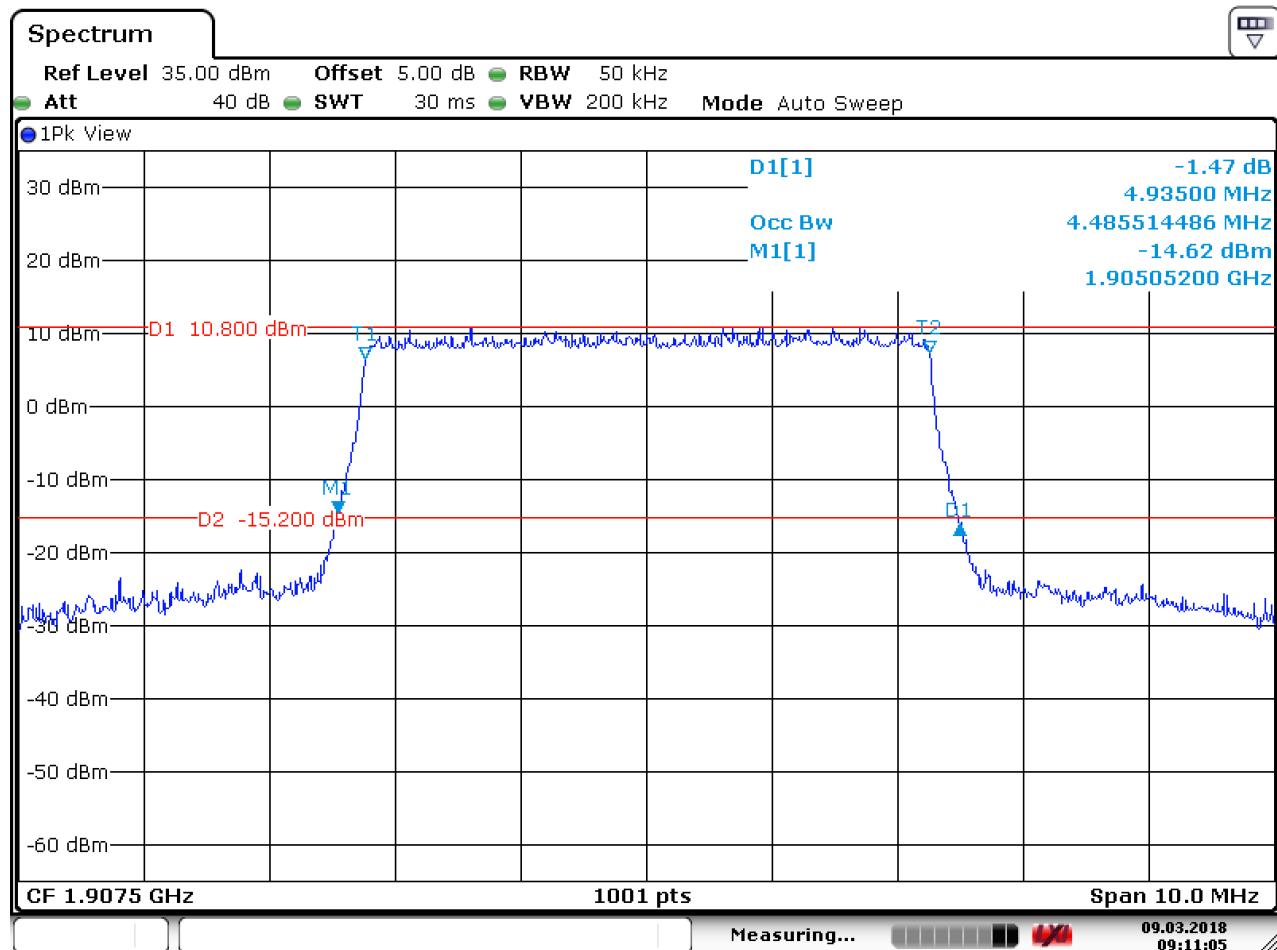
Date: 9.MAR.2018 09:45:18

4.1.1.6.2 Test Channel = MCH



Date: 9.MAR.2018 09:12:07

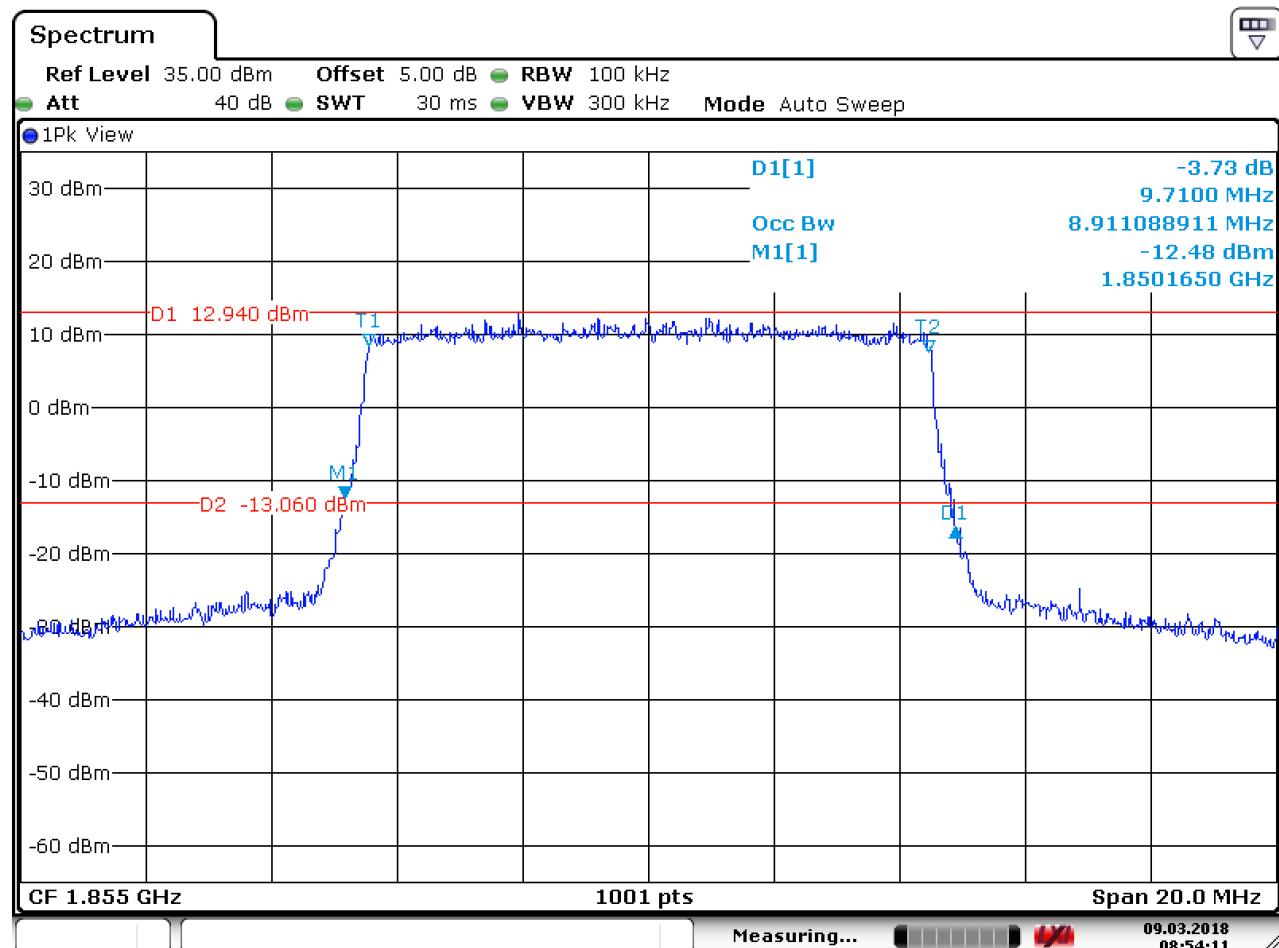
4.1.1.6.3 Test Channel = HCH



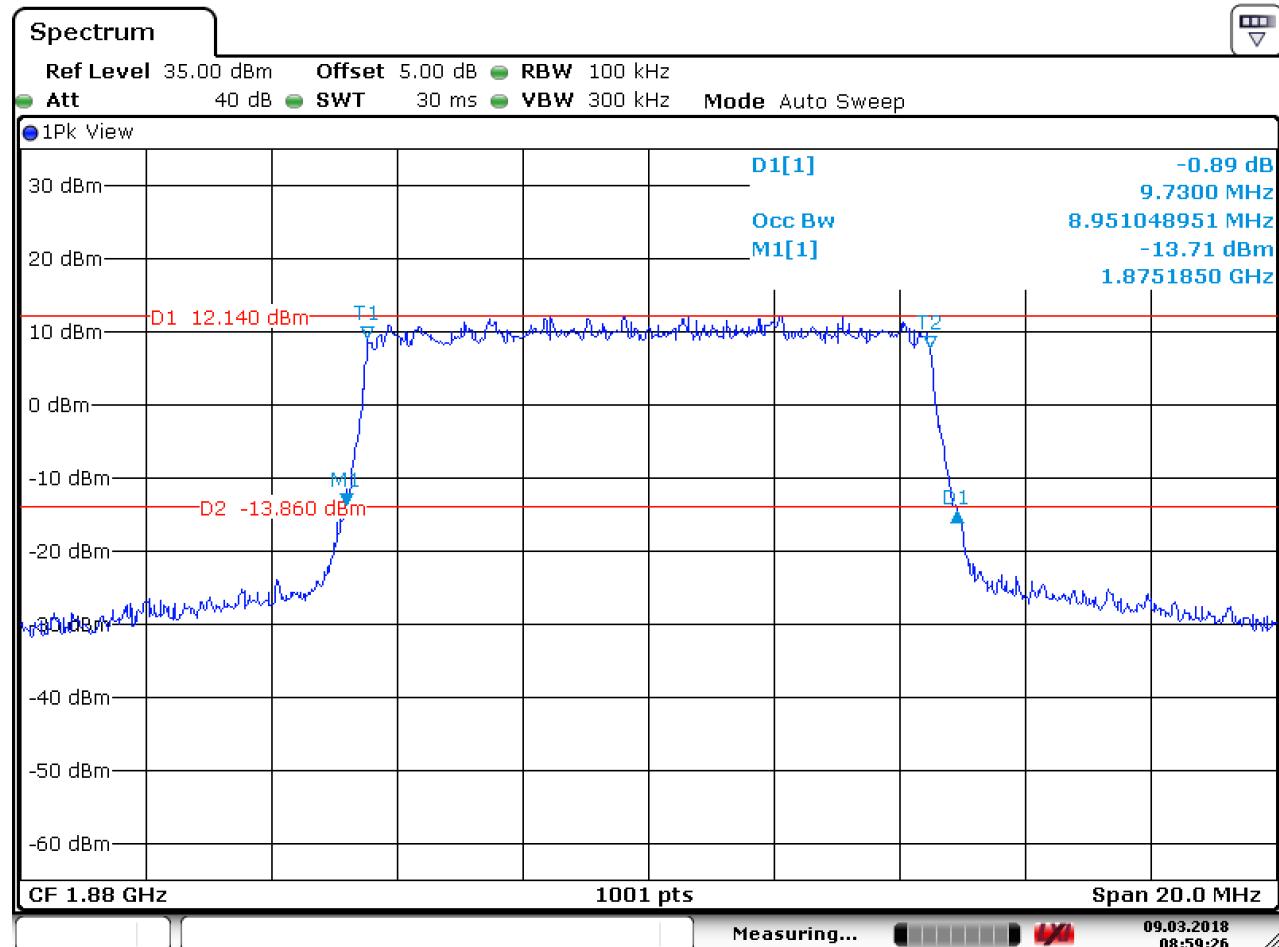
Date: 9.MAR.2018 09:11:06

4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

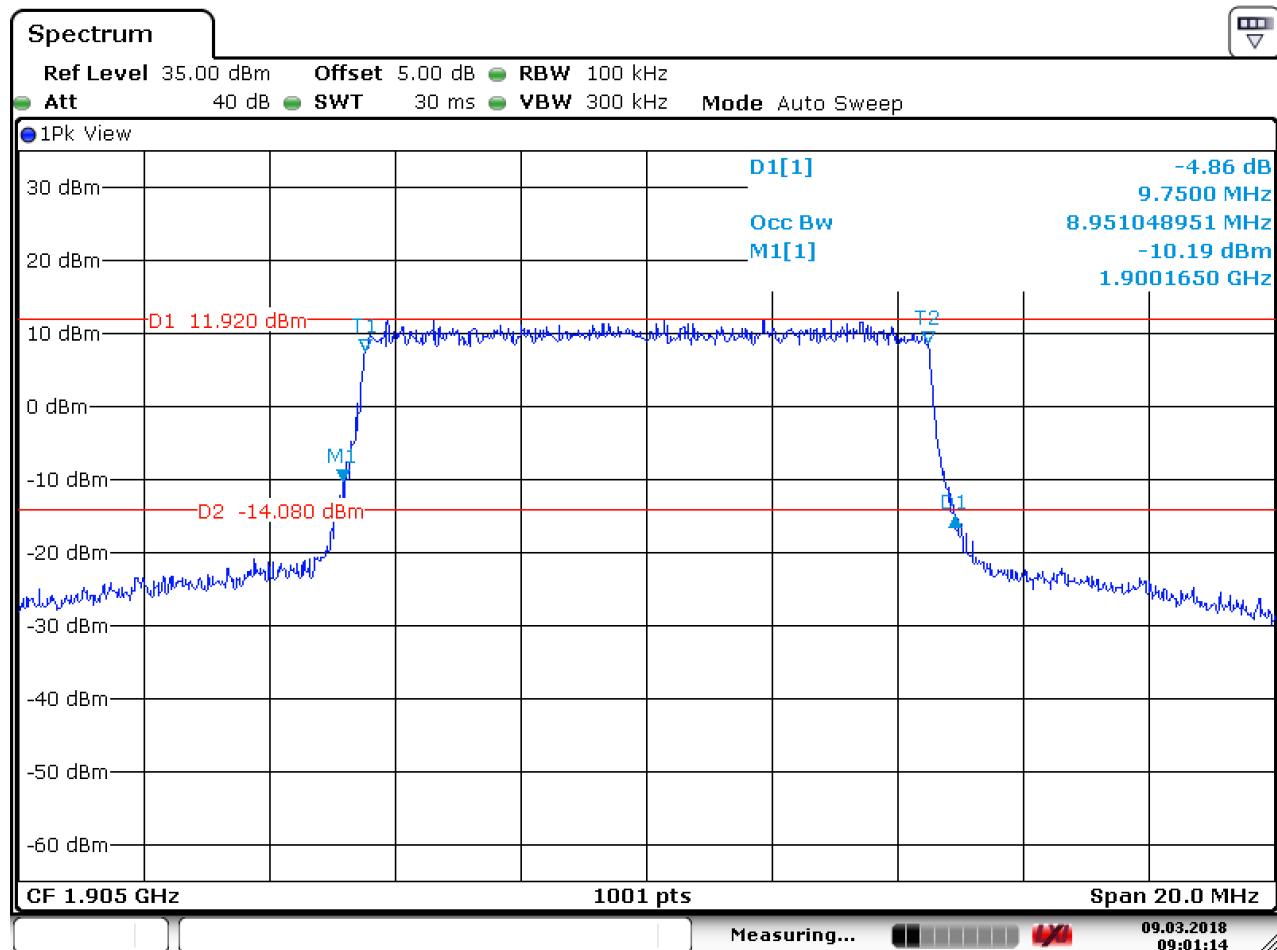


Date: 9.MAR.2018 08:54:12

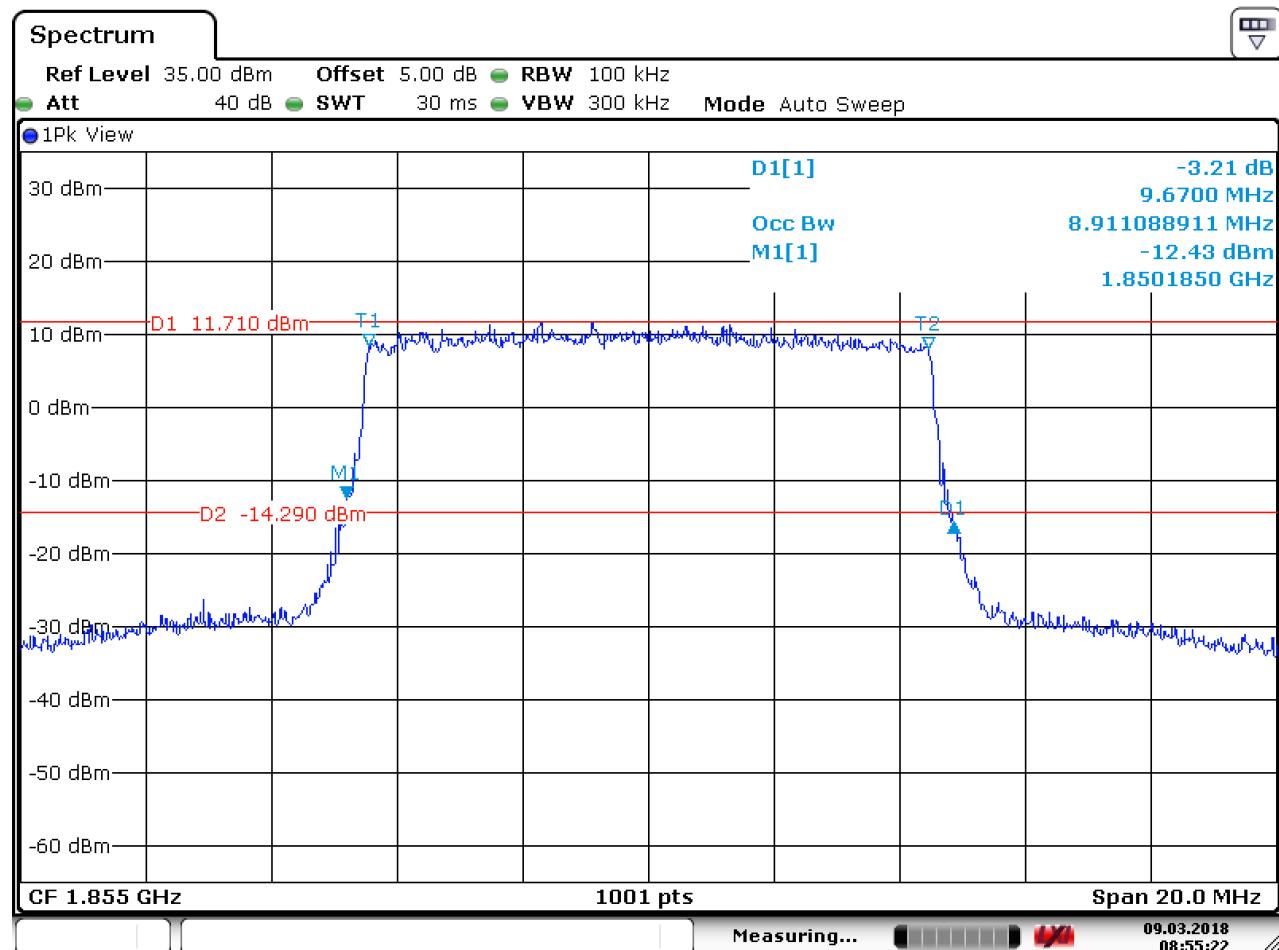
4.1.1.7.2 Test Channel = MCH

Date: 9.MAR.2018 08:59:27

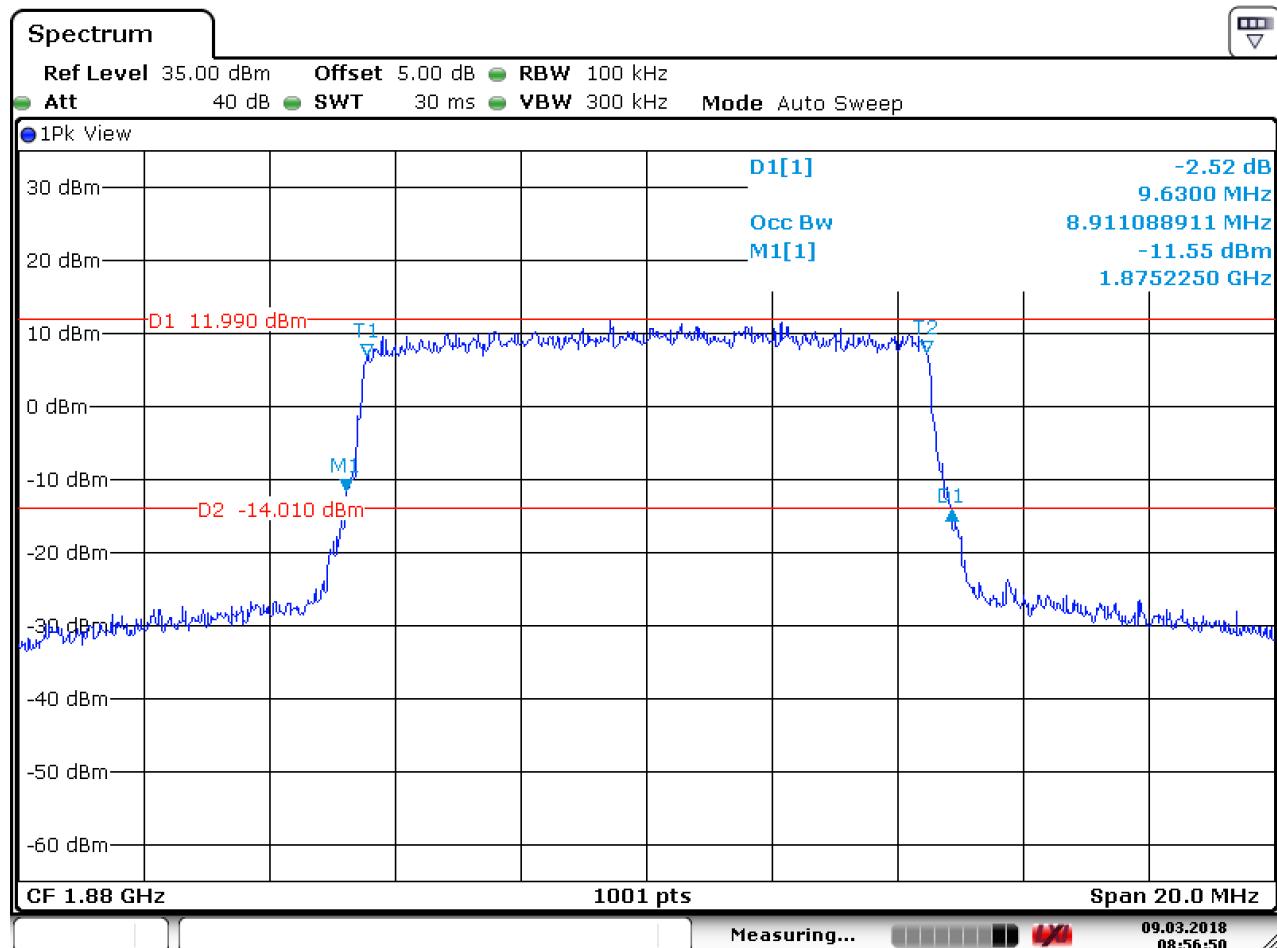
4.1.1.7.3 Test Channel = HCH



Date: 9.MAR.2018 09:01:14

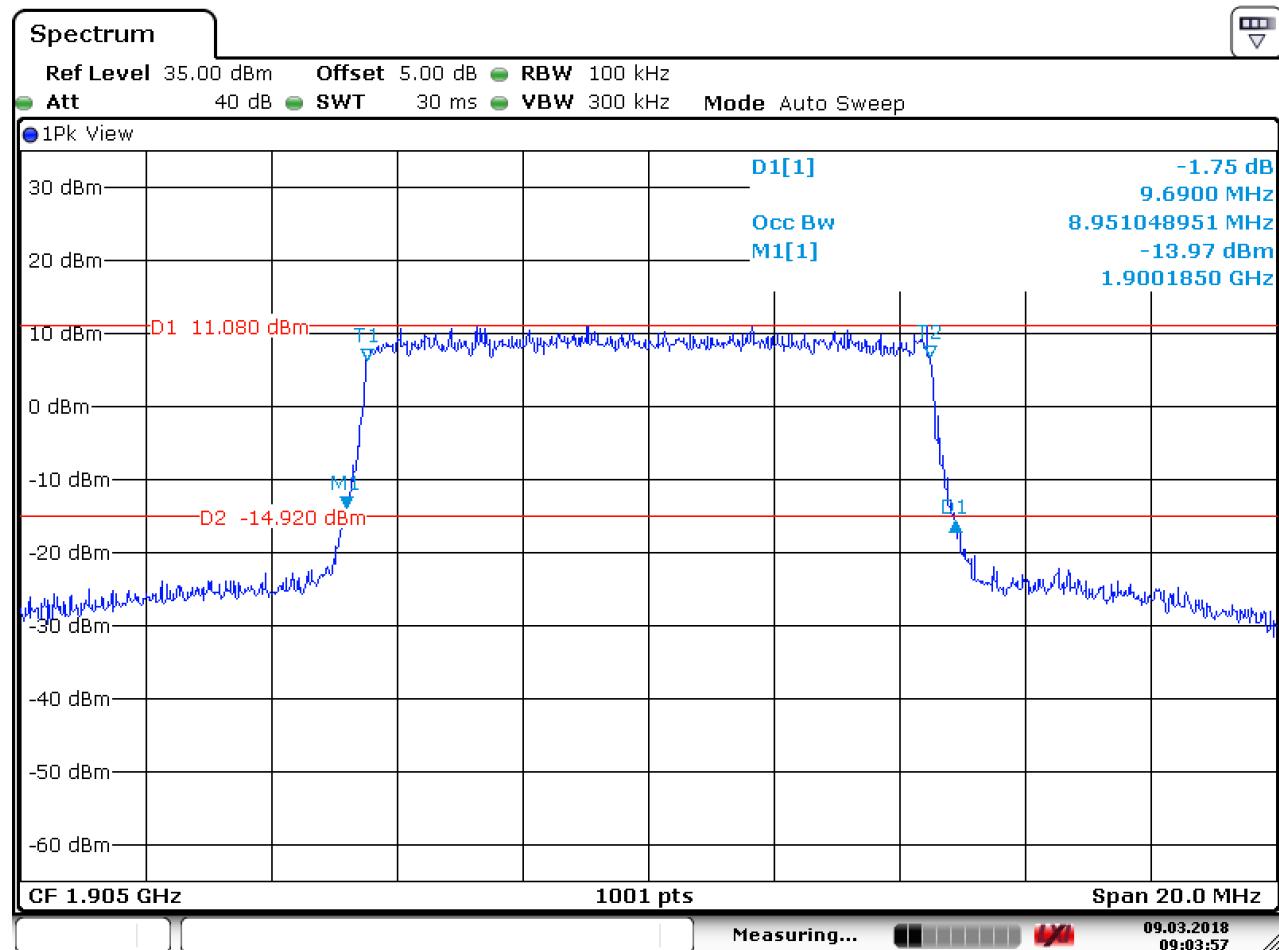
4.1.1.8 Test Mode = LTE/TM2 10MHz**4.1.1.8.1 Test Channel = LCH**

Date: 9.MAR.2018 08:55:22

4.1.1.8.2 Test Channel = MCH

Date: 9.MAR.2018 08:56:50

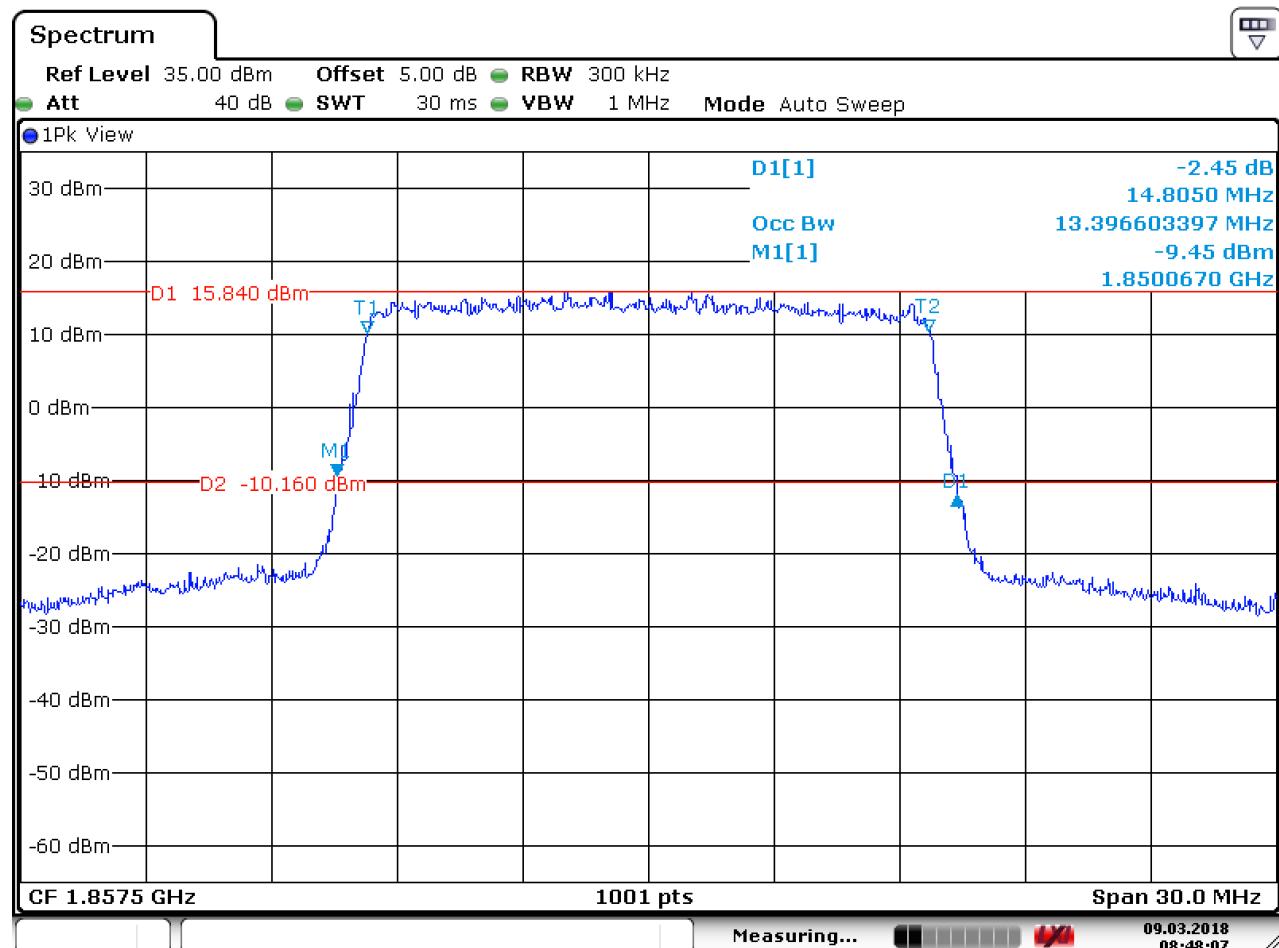
4.1.1.8.3 Test Channel = HCH



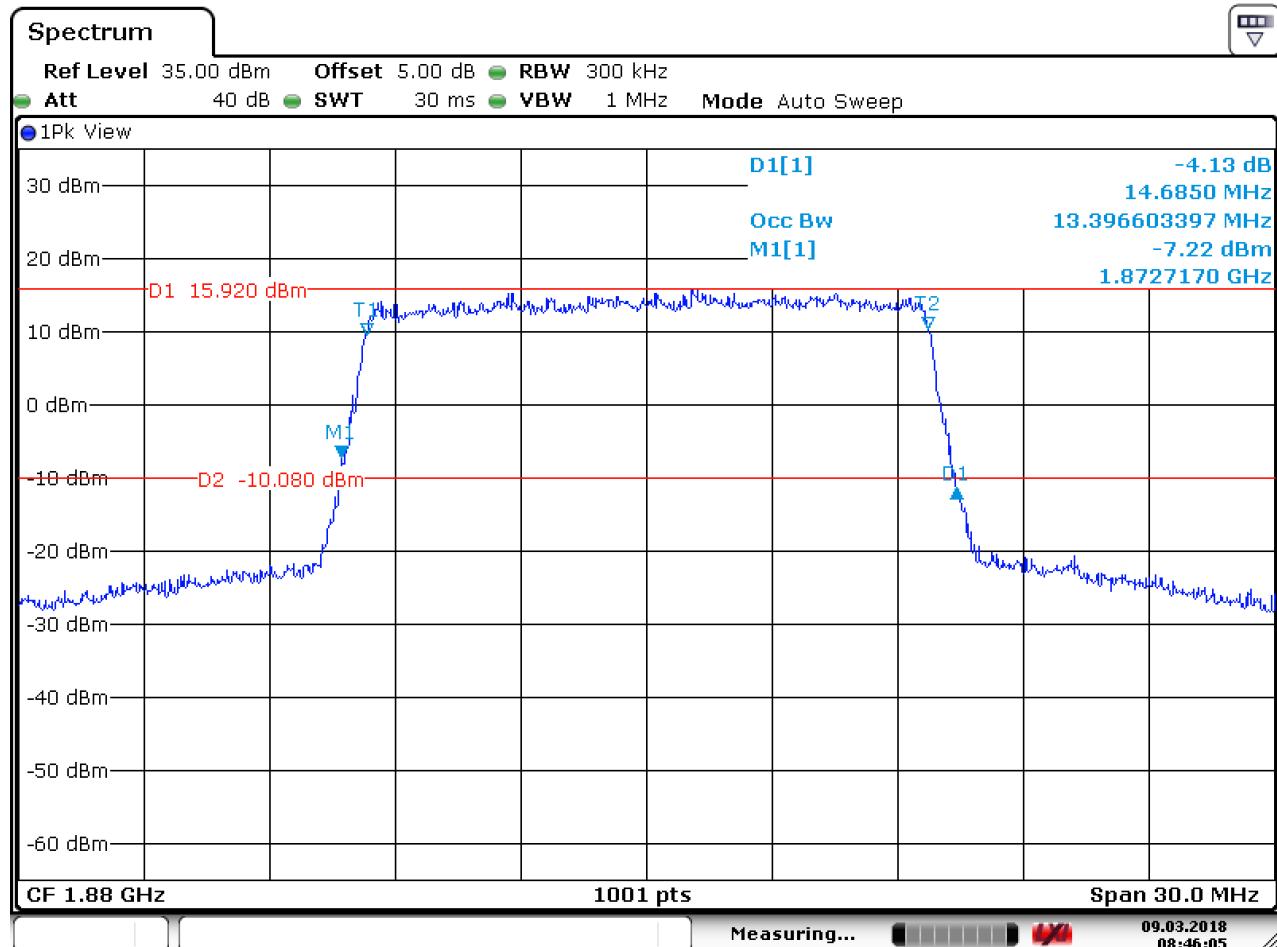
Date: 9.MAR.2018 09:03:57

4.1.1.9 Test Mode = LTE/TM1 15MHz

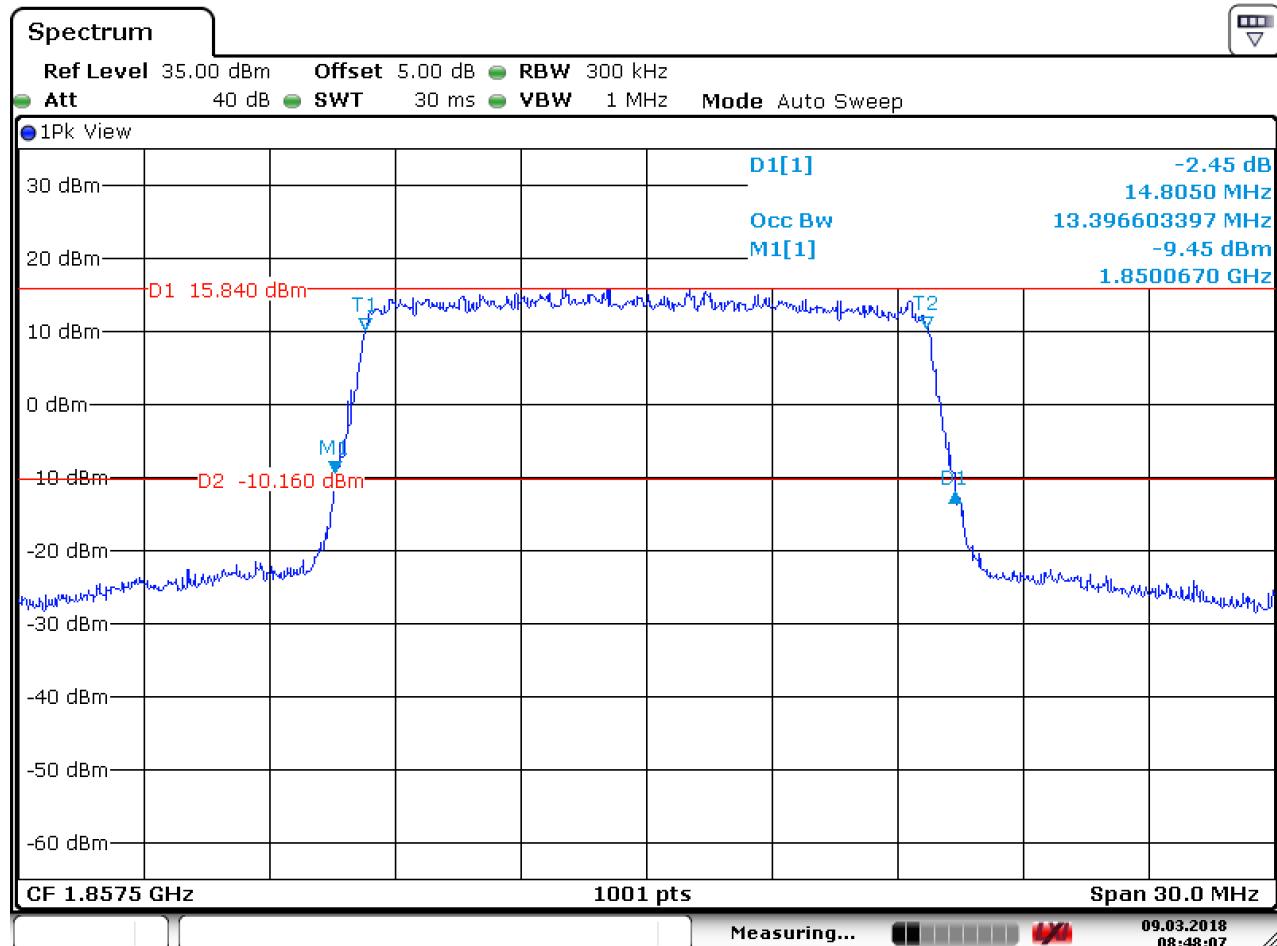
4.1.1.9.1 Test Channel = LCH



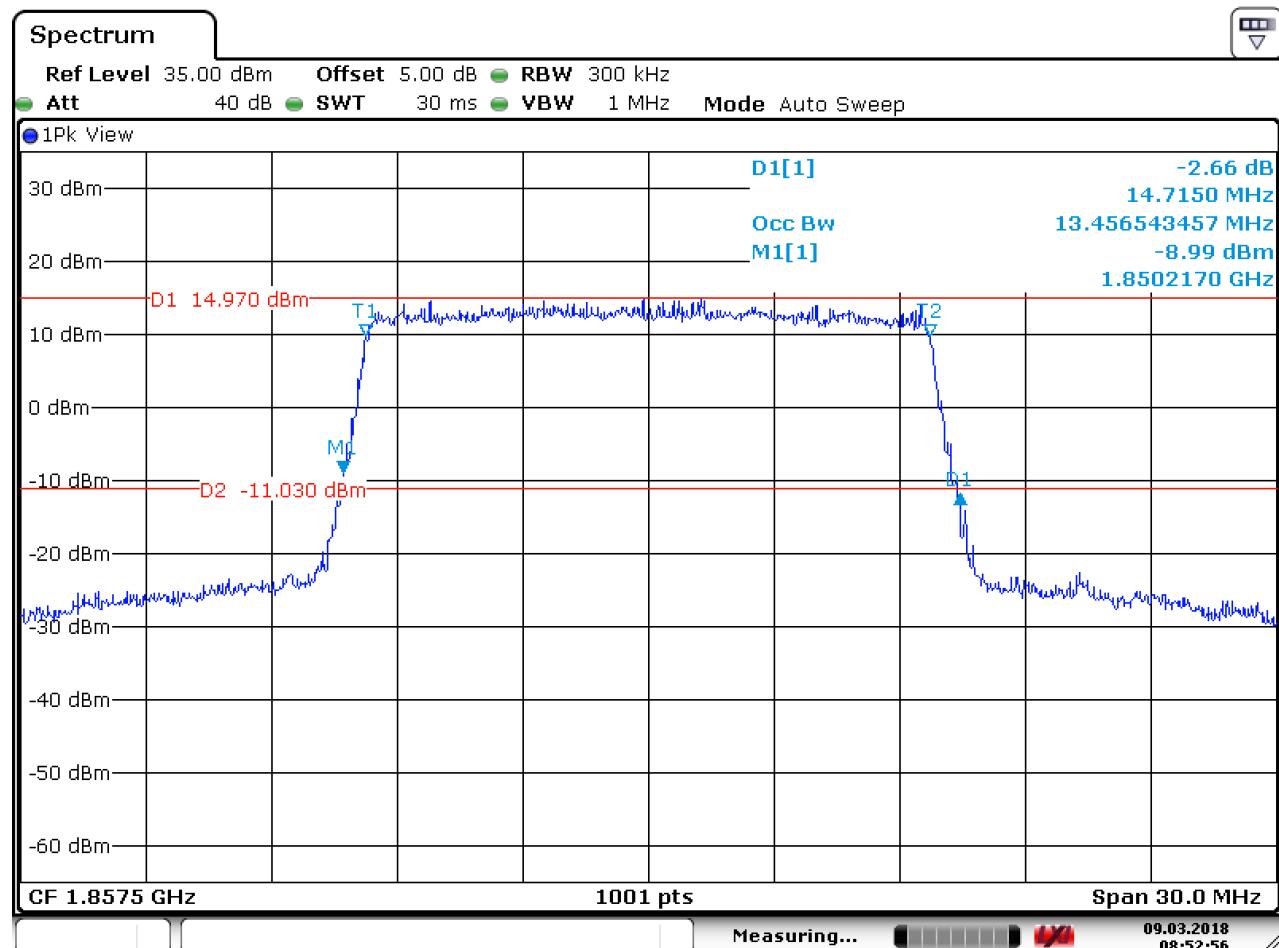
Date: 9.MAR.2018 08:48:08

4.1.1.9.2 Test Channel = MCH

Date: 9.MAR.2018 08:46:06

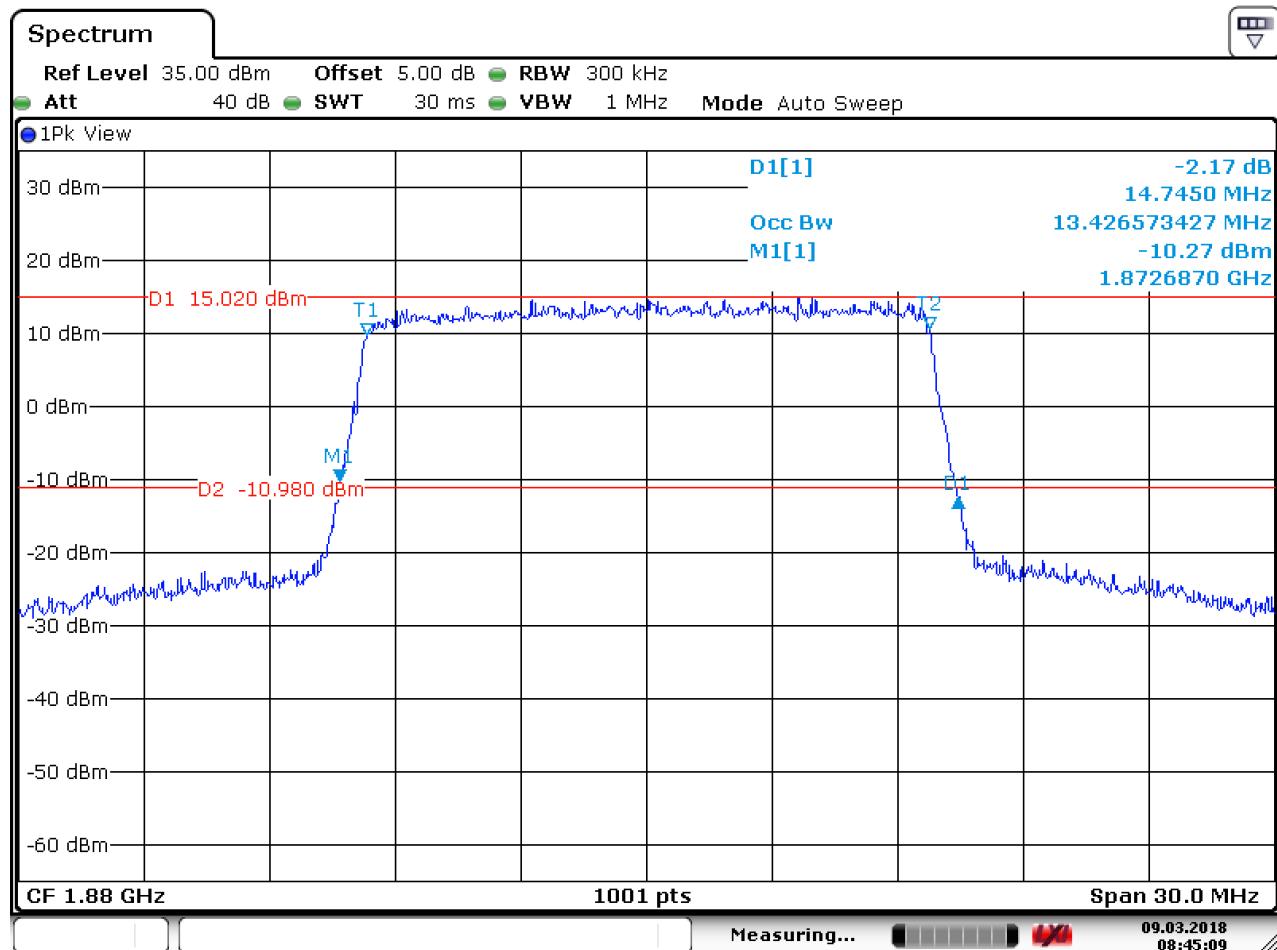
4.1.1.9.3 Test Channel = HCH

Date: 9.MAR.2018 08:48:08

4.1.1.10 Test Mode = LTE/TM2 15MHz**4.1.1.10.1 Test Channel = LCH**

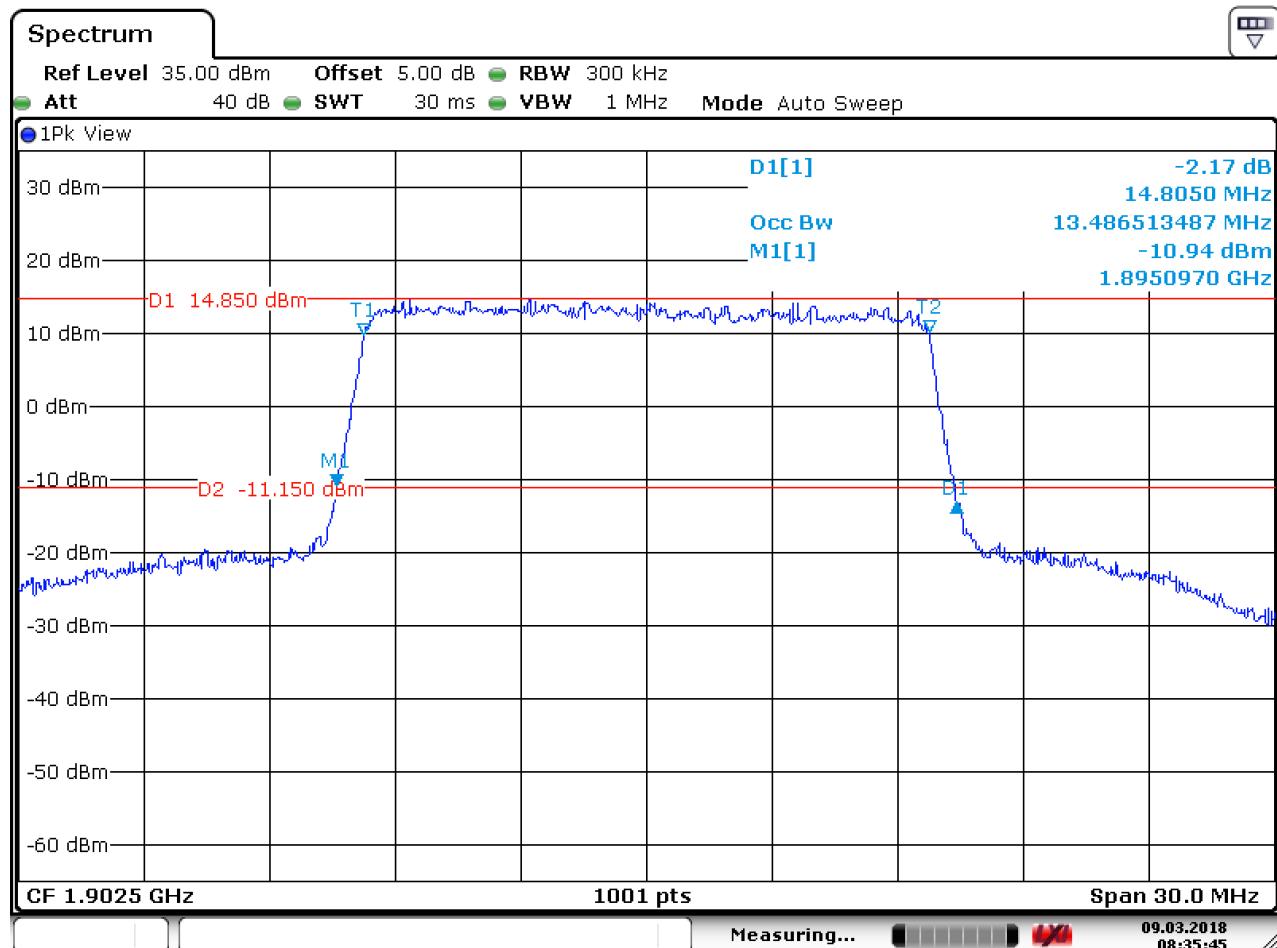
Date: 9.MAR.2018 08:52:56

4.1.1.10.2 Test Channel = MCH

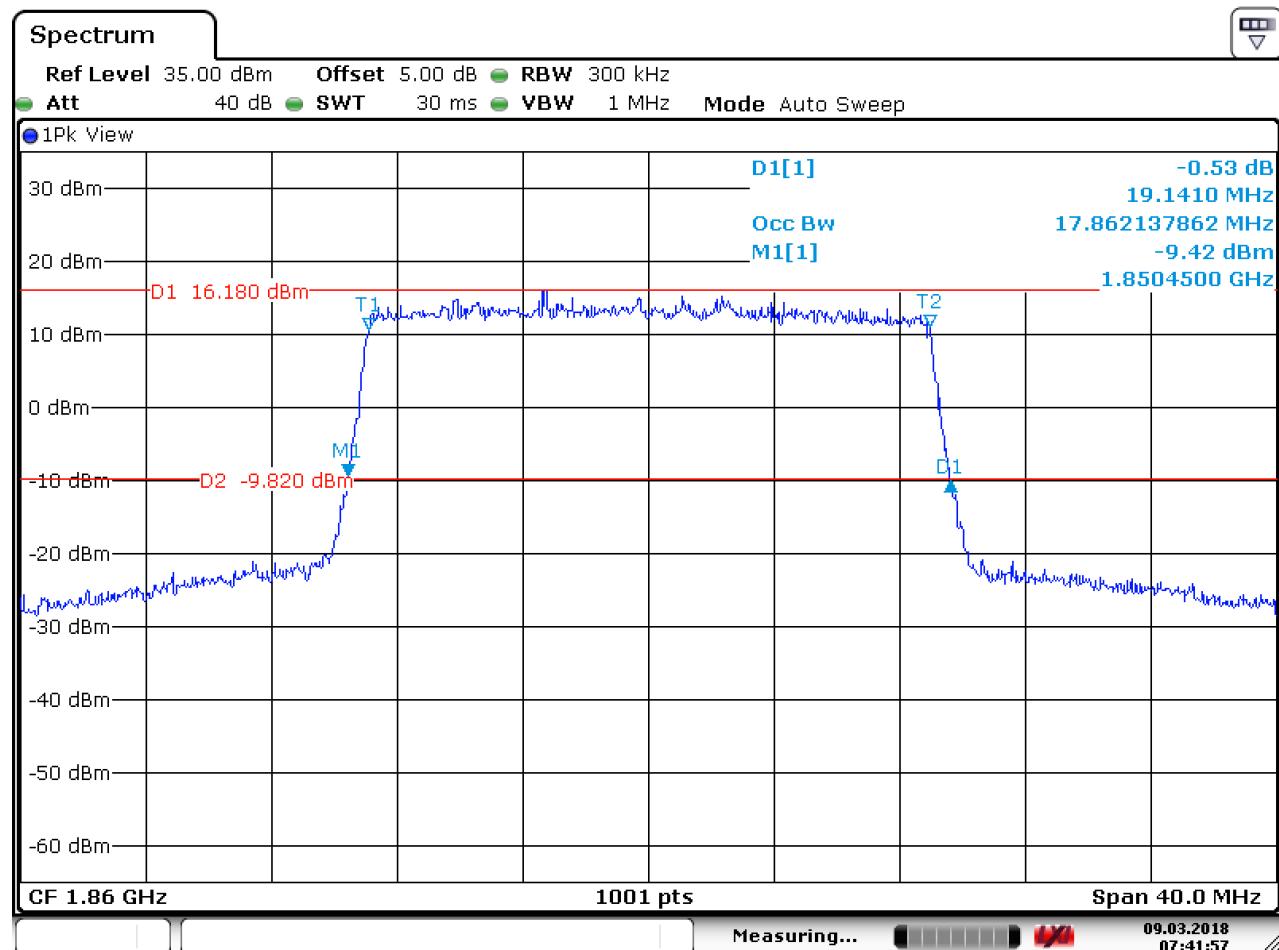


Date: 9.MAR.2018 08:45:10

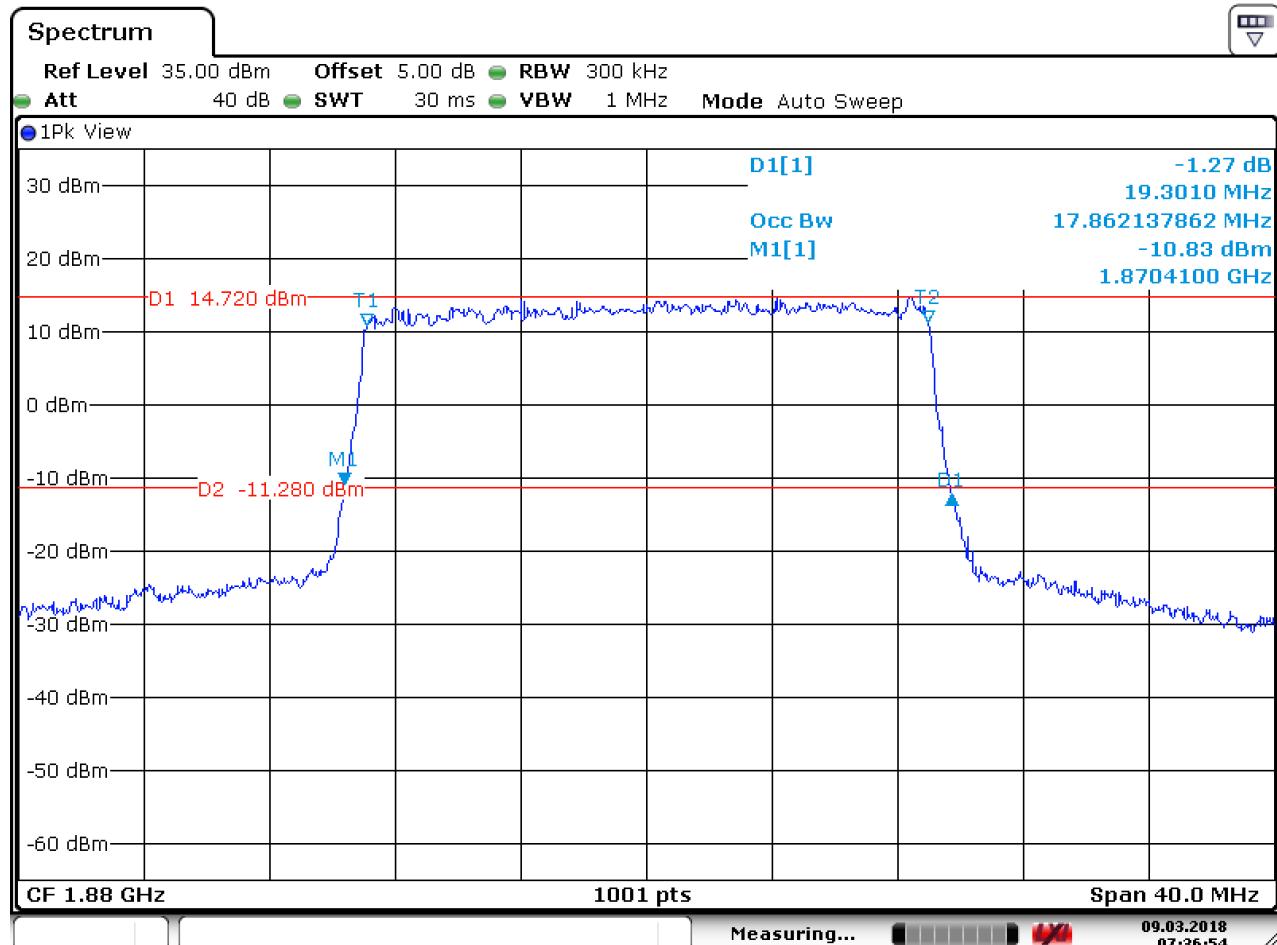
4.1.1.10.3 Test Channel = HCH



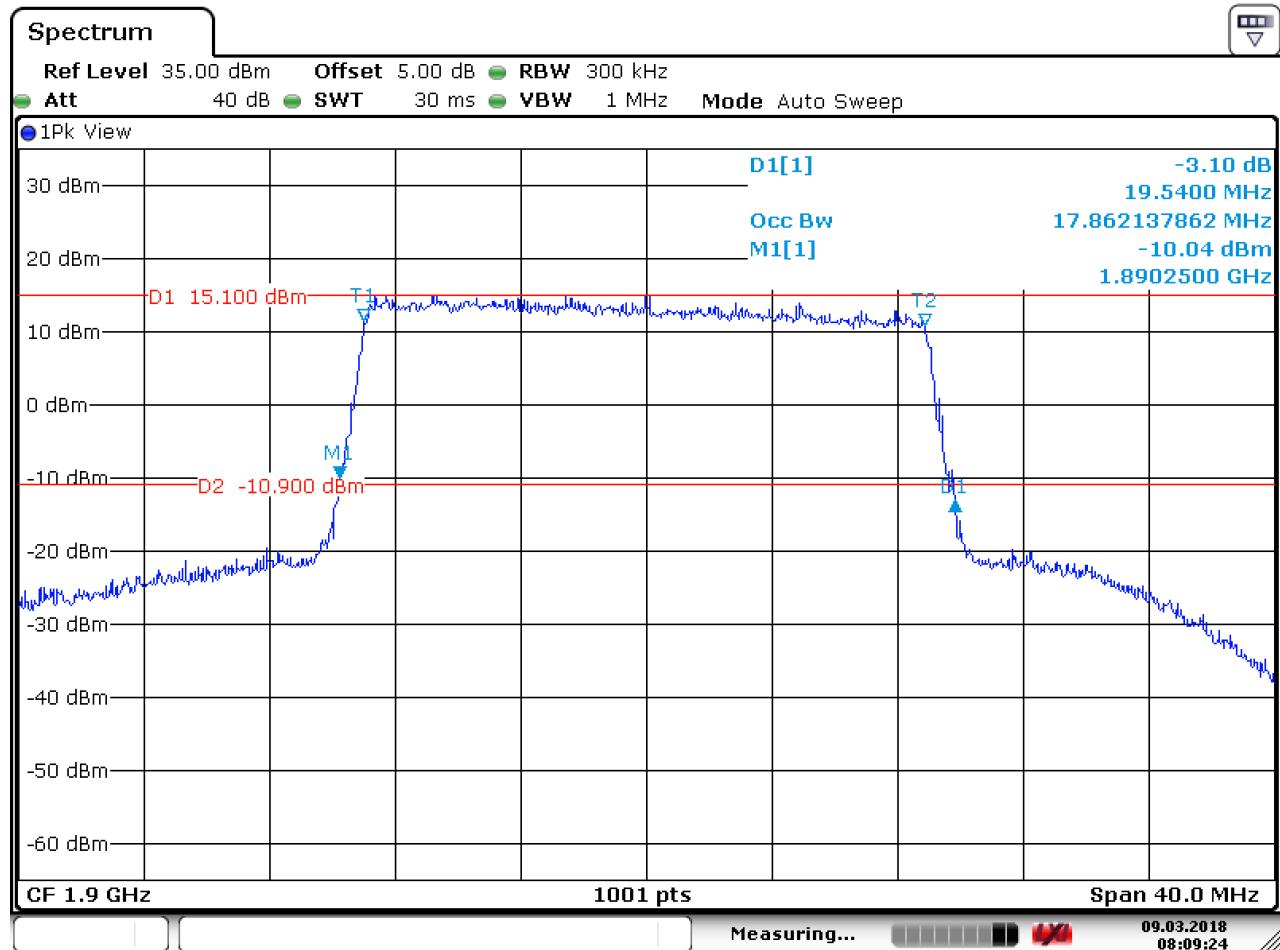
Date: 9.MAR.2018 08:35:45

4.1.1.11 Test Mode = LTE/TM1 20MHz**4.1.1.11.1 Test Channel = LCH**

Date: 9.MAR.2018 07:41:57

4.1.1.11.2 Test Channel = MCH

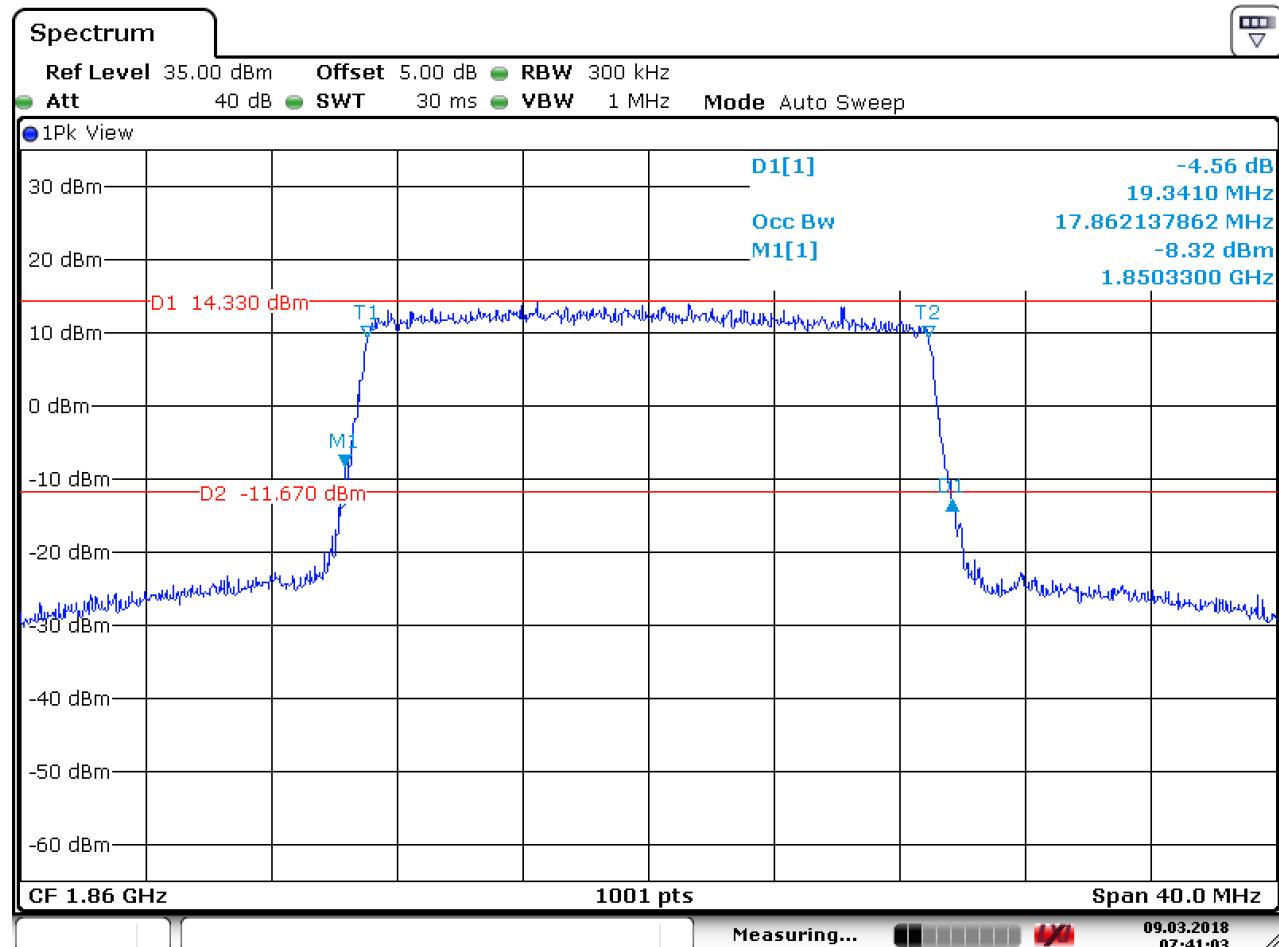
Date: 9.MAR.2018 07:36:54

4.1.1.11.3 Test Channel = HCH

Date: 9.MAR.2018 08:09:24

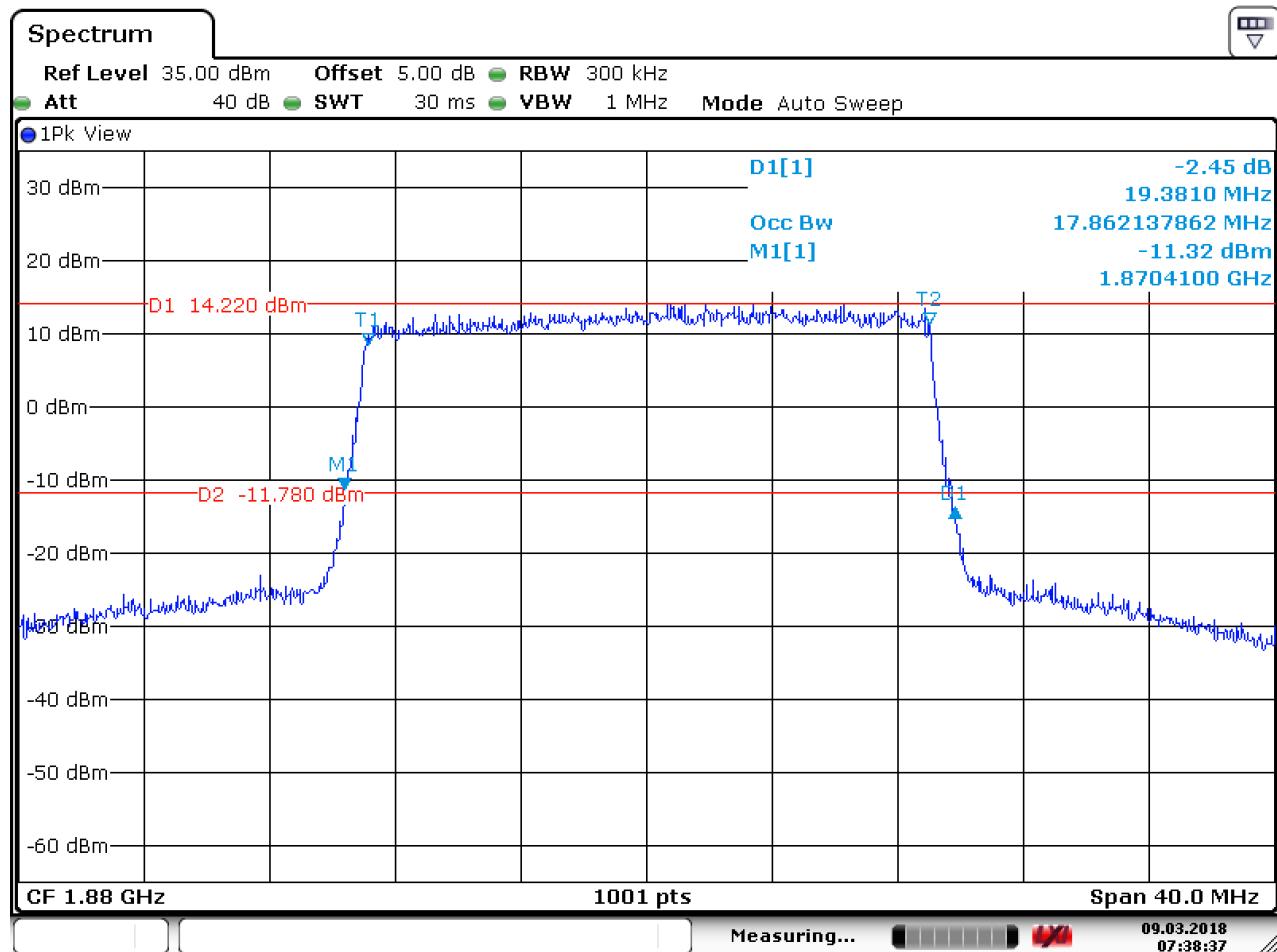
4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH

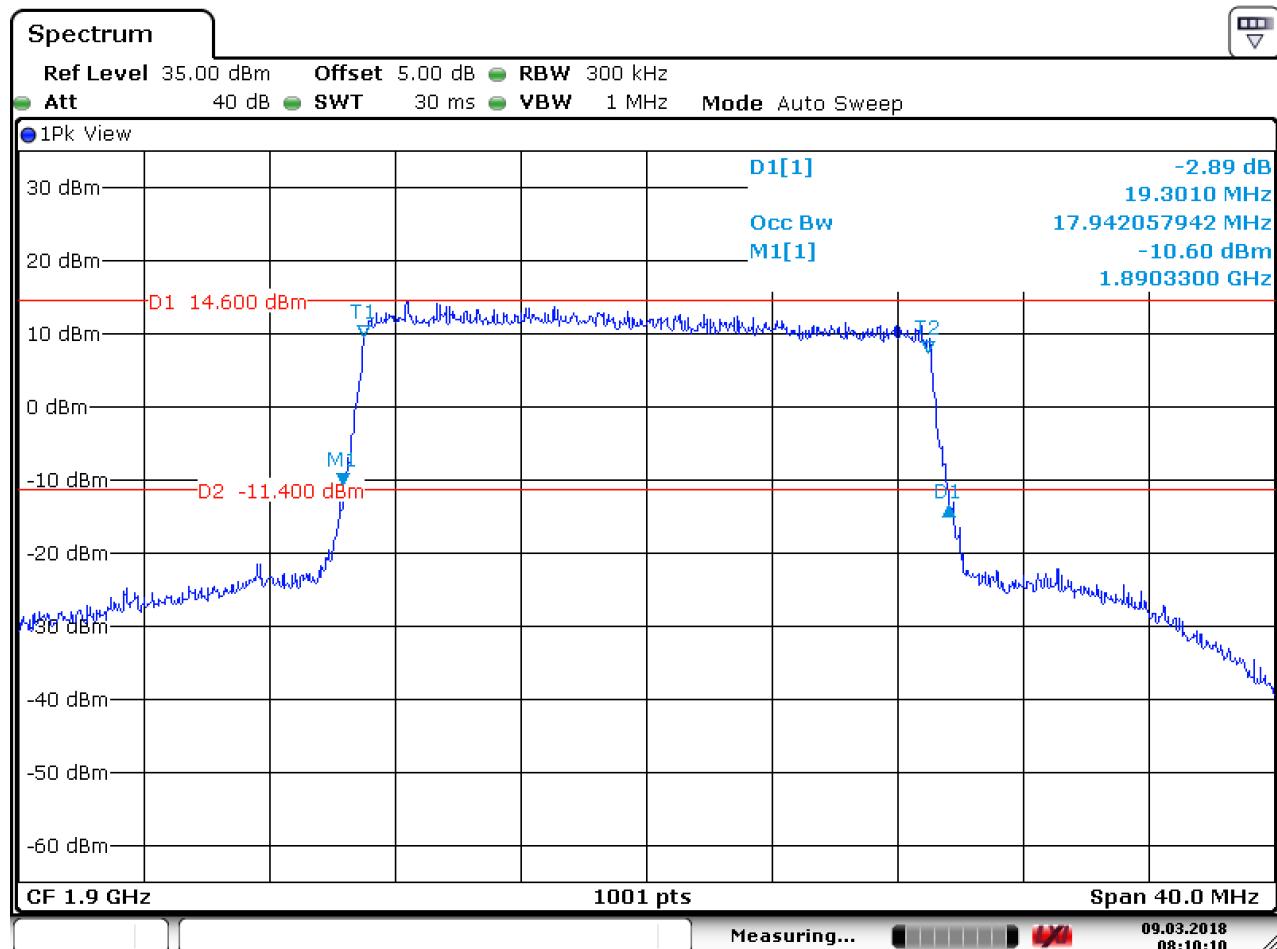


Date: 9.MAR.2018 07:41:04

4.1.1.12.2 Test Channel = MCH



Date: 9.MAR.2018 07:38:37

4.1.1.12.3 Test Channel = HCH

Date: 9.MAR.2018 08:10:11

5 Band Edges Compliance

Part I - Test Plots

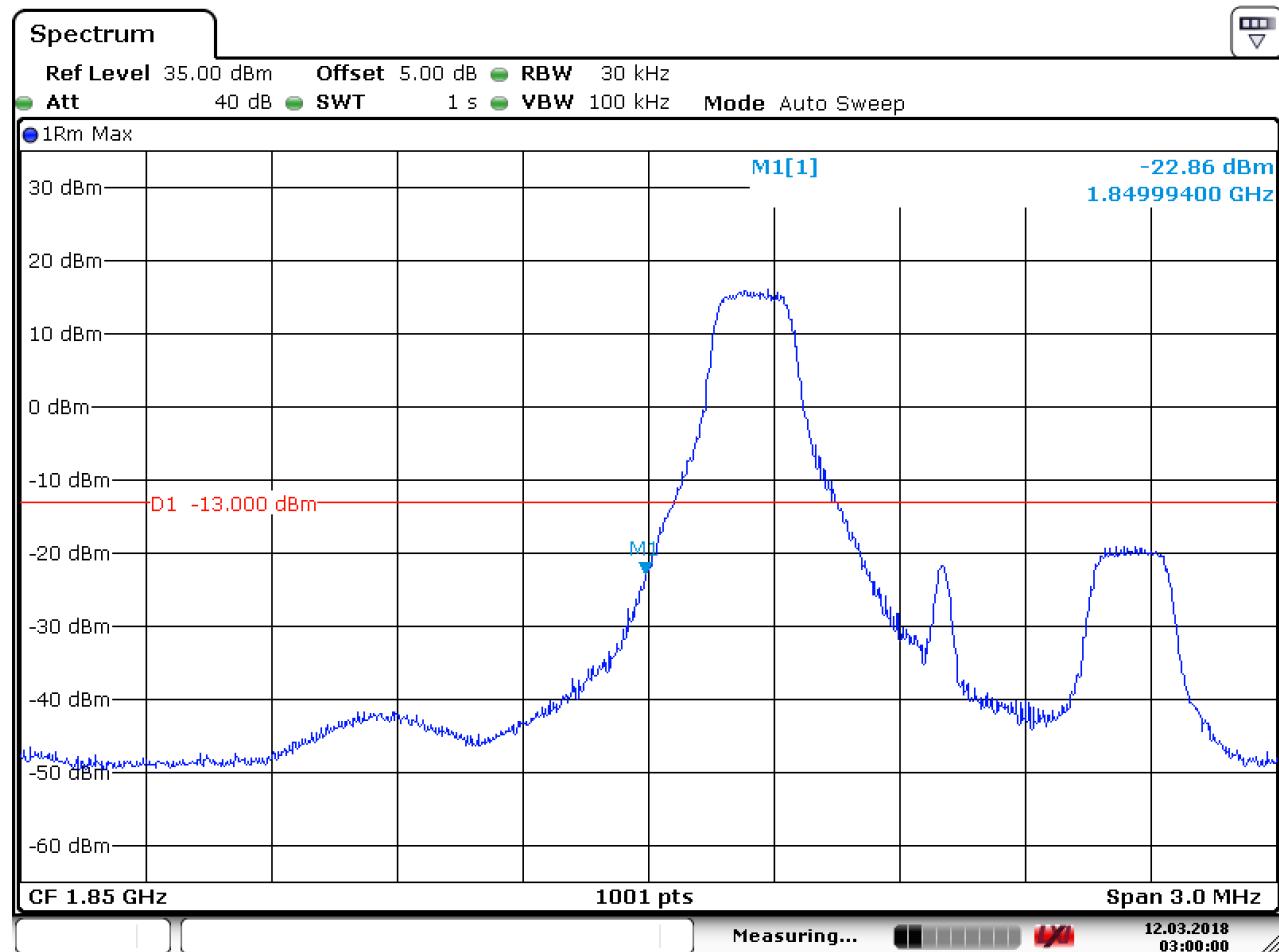
5.1 For LTE

5.1.1 Test Band = LTE band2

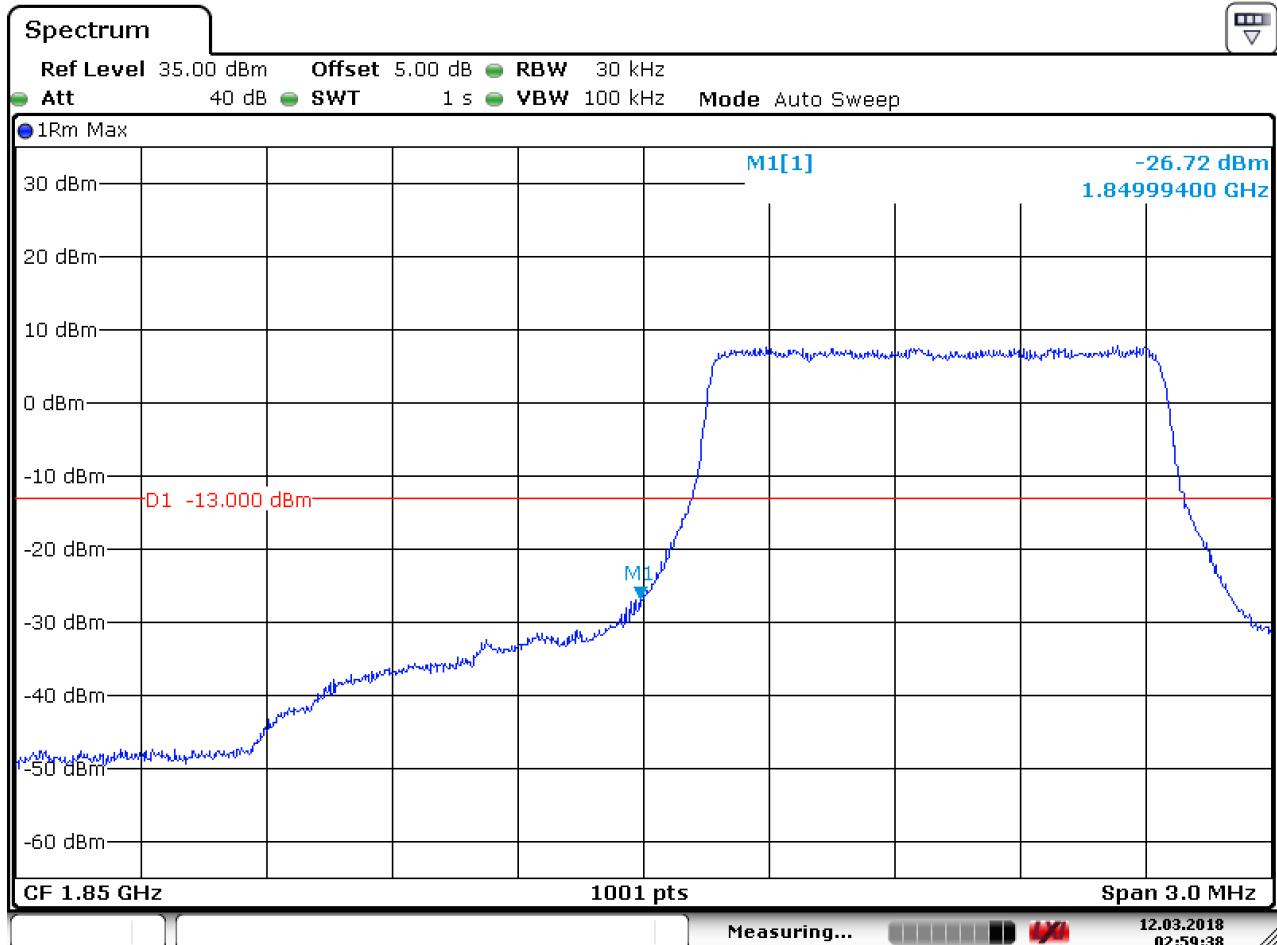
5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



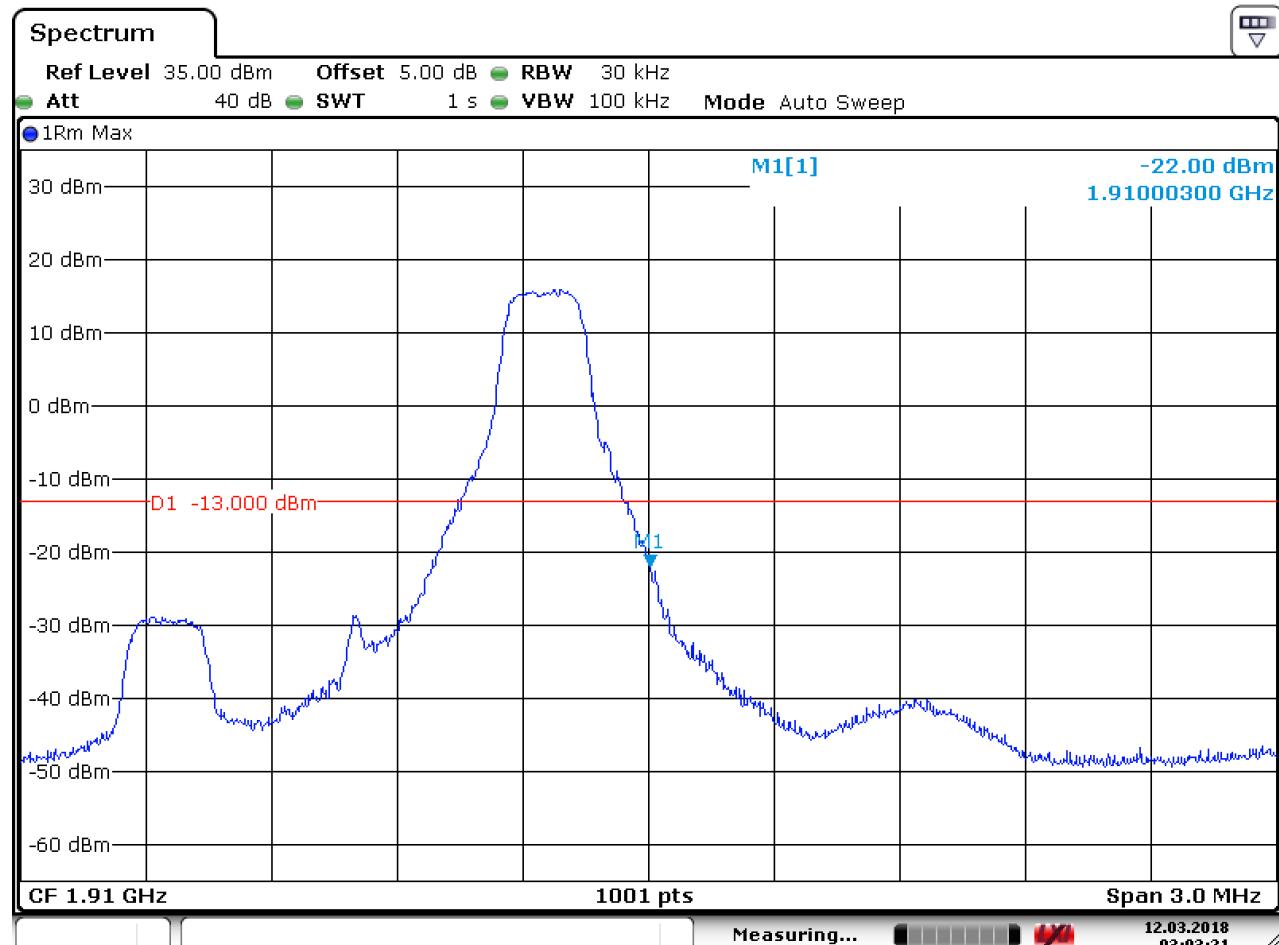
Date: 12.MAR.2018 03:00:01

5.1.1.1.2 Test RB=6RB

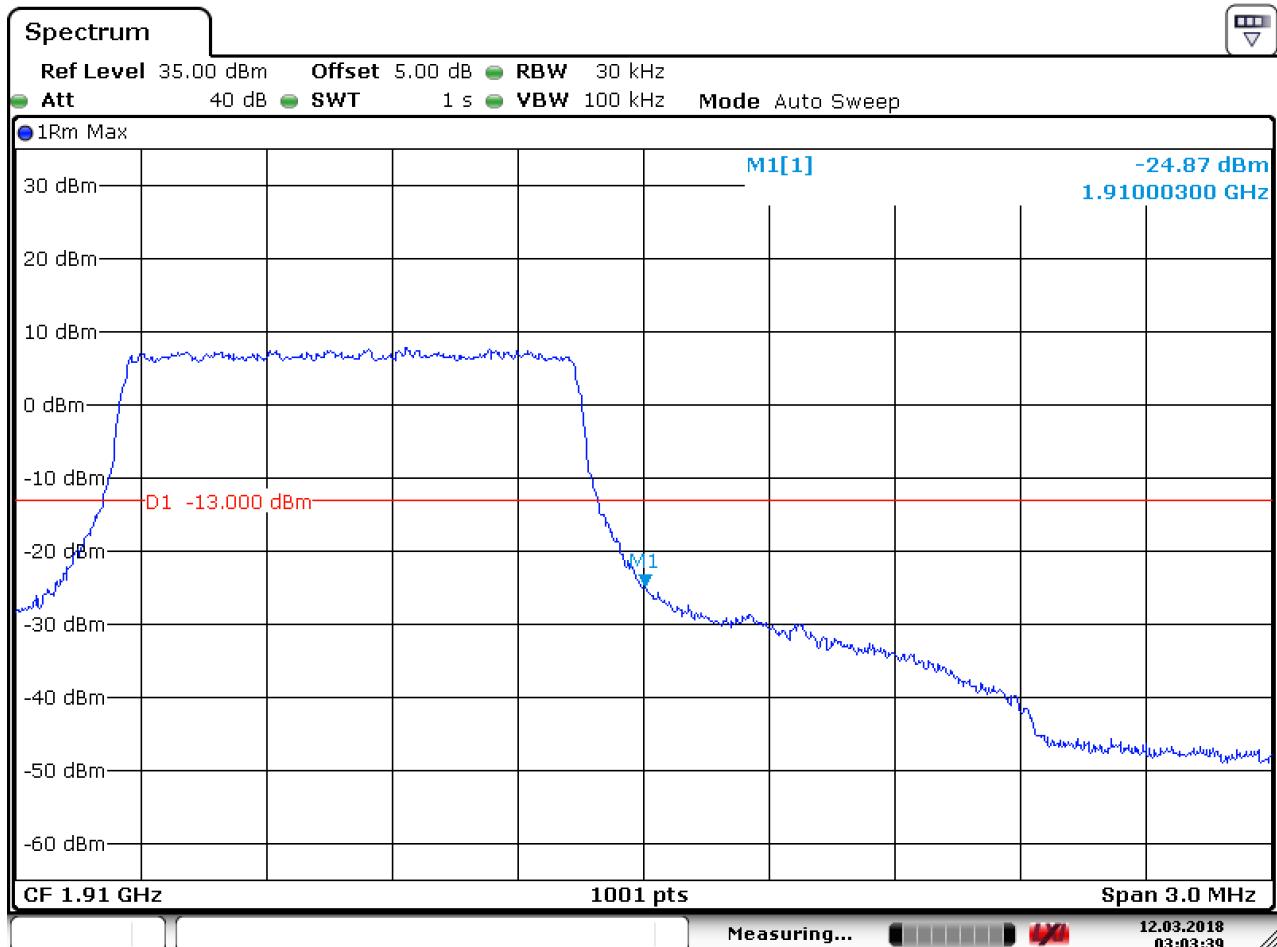
Date: 12.MAR.2018 02:59:39

5.1.1.1.2 Test Channel = HCH

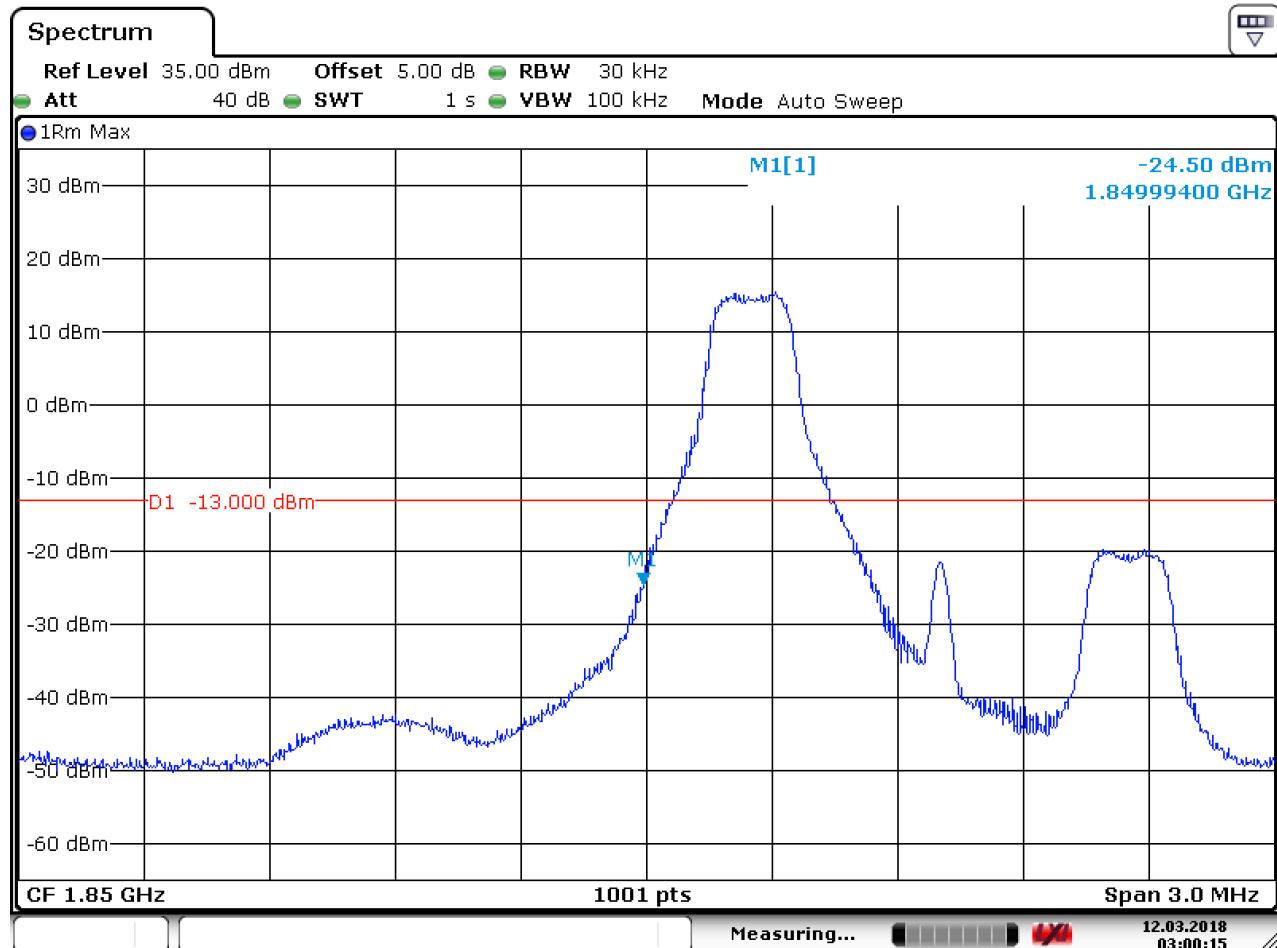
5.1.1.1.2.1 Test RB=1RB



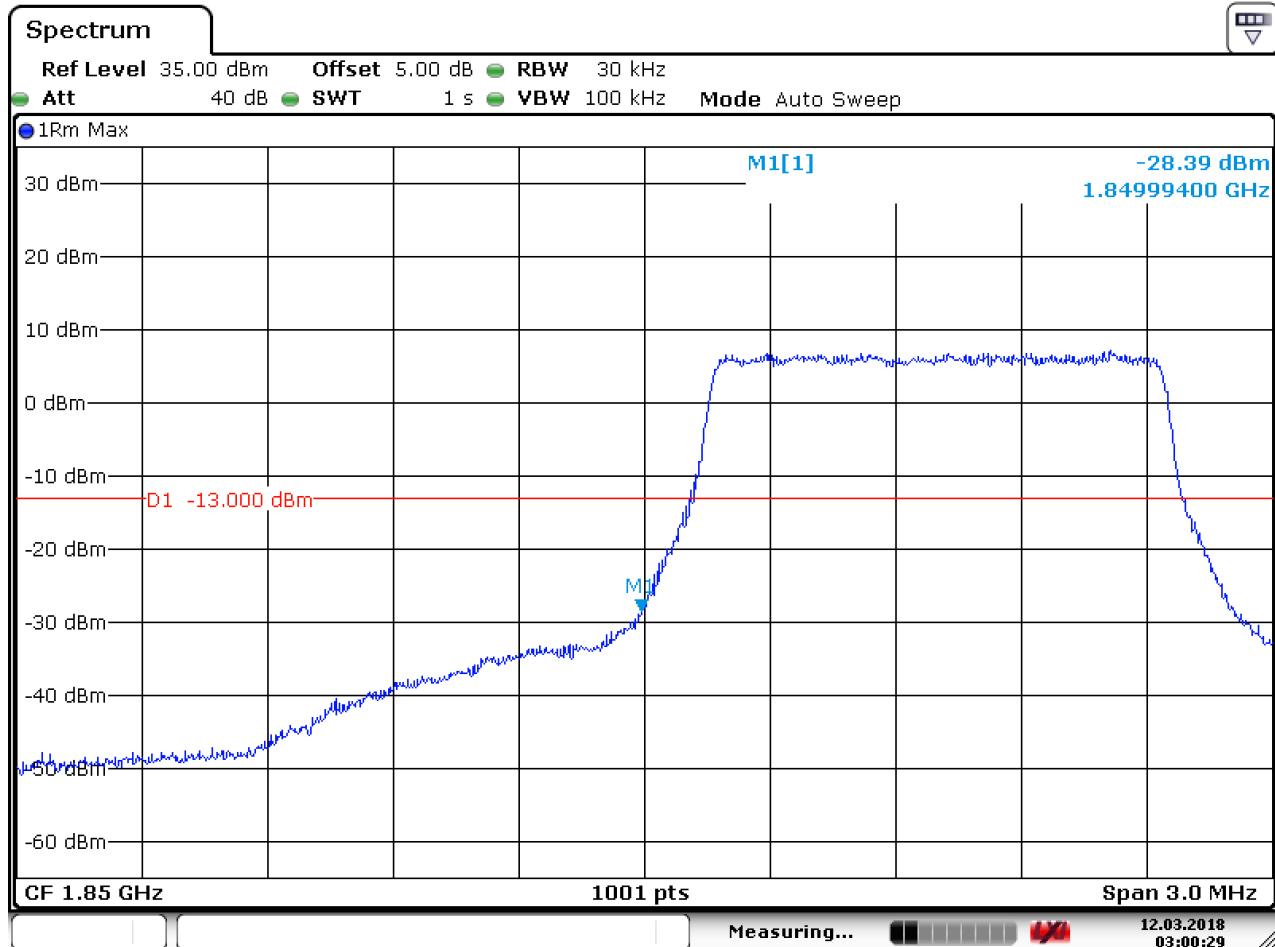
Date: 12.MAR.2018 03:03:22

5.1.1.1.2.2 Test RB=6RB

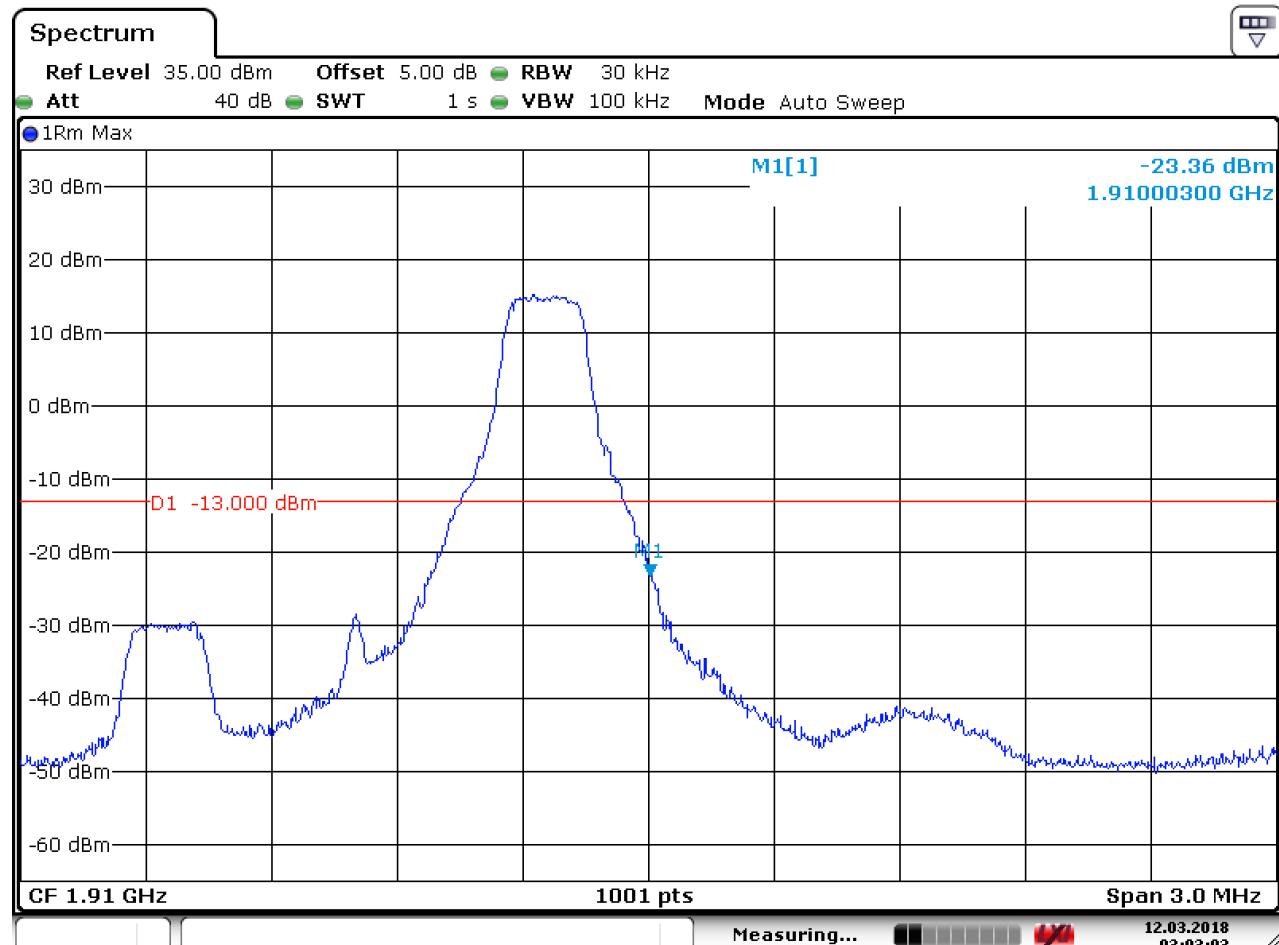
Date: 12.MAR.2018 03:03:39

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**

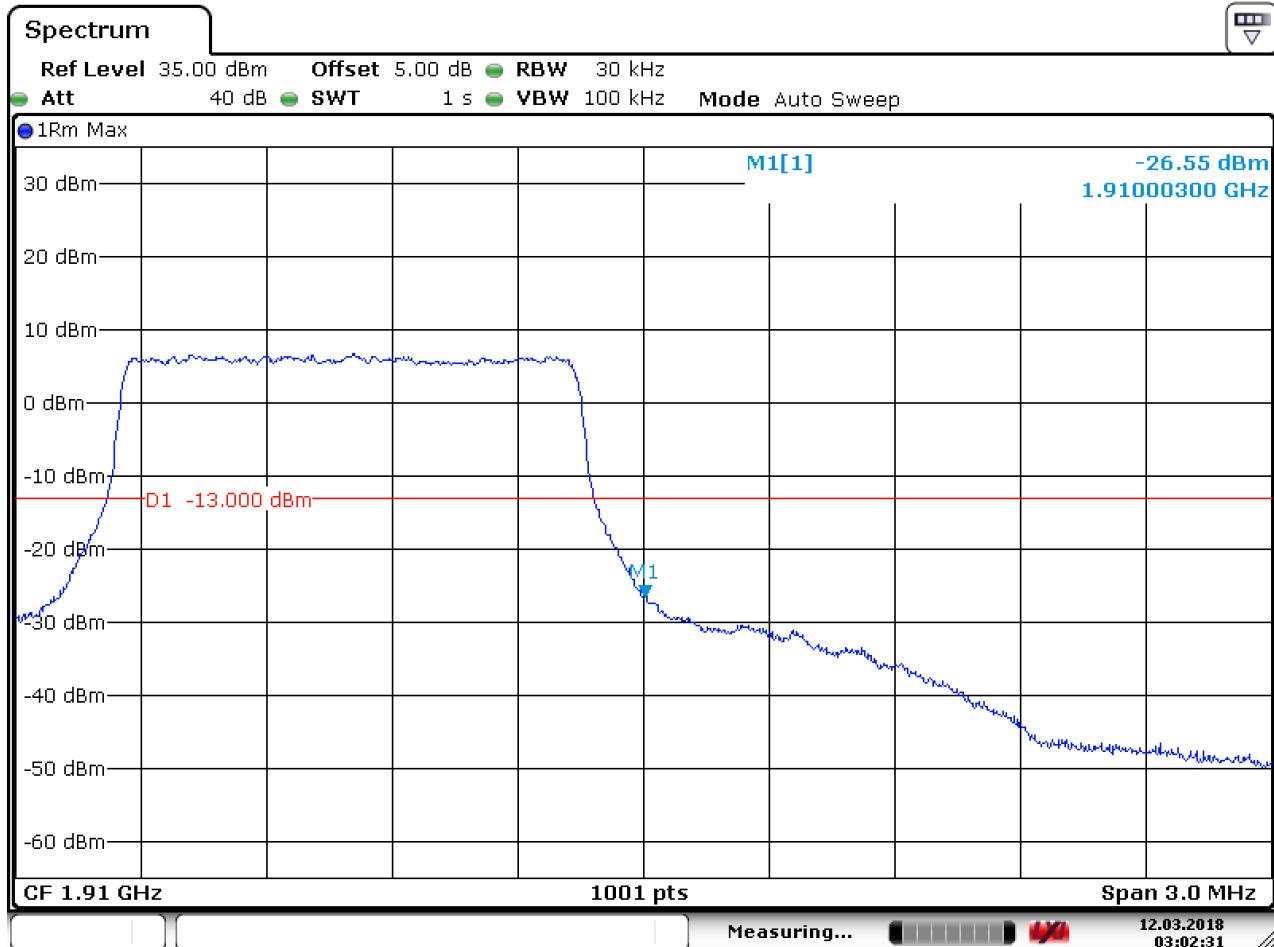
Date: 12.MAR.2018 03:00:15

5.1.1.2.1.2 Test RB=6RB

Date: 12.MAR.2018 03:00:29

5.1.1.2.2 Test Channel = HCH**5.1.1.2.2.1 Test RB=1RB**

Date: 12.MAR.2018 03:03:03

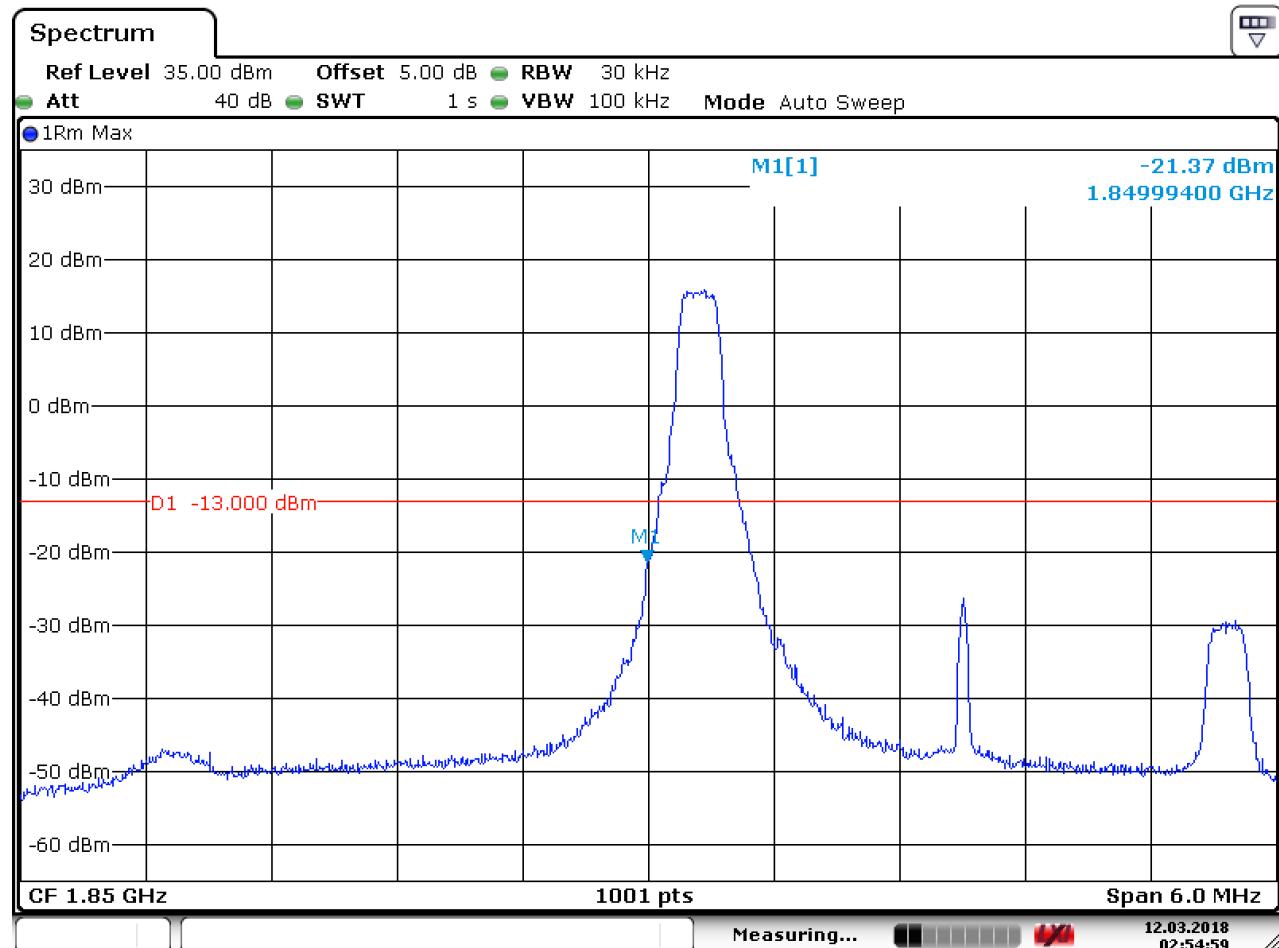
5.1.1.2.2.2 Test RB=6RB

Date: 12.MAR.2018 03:02:32

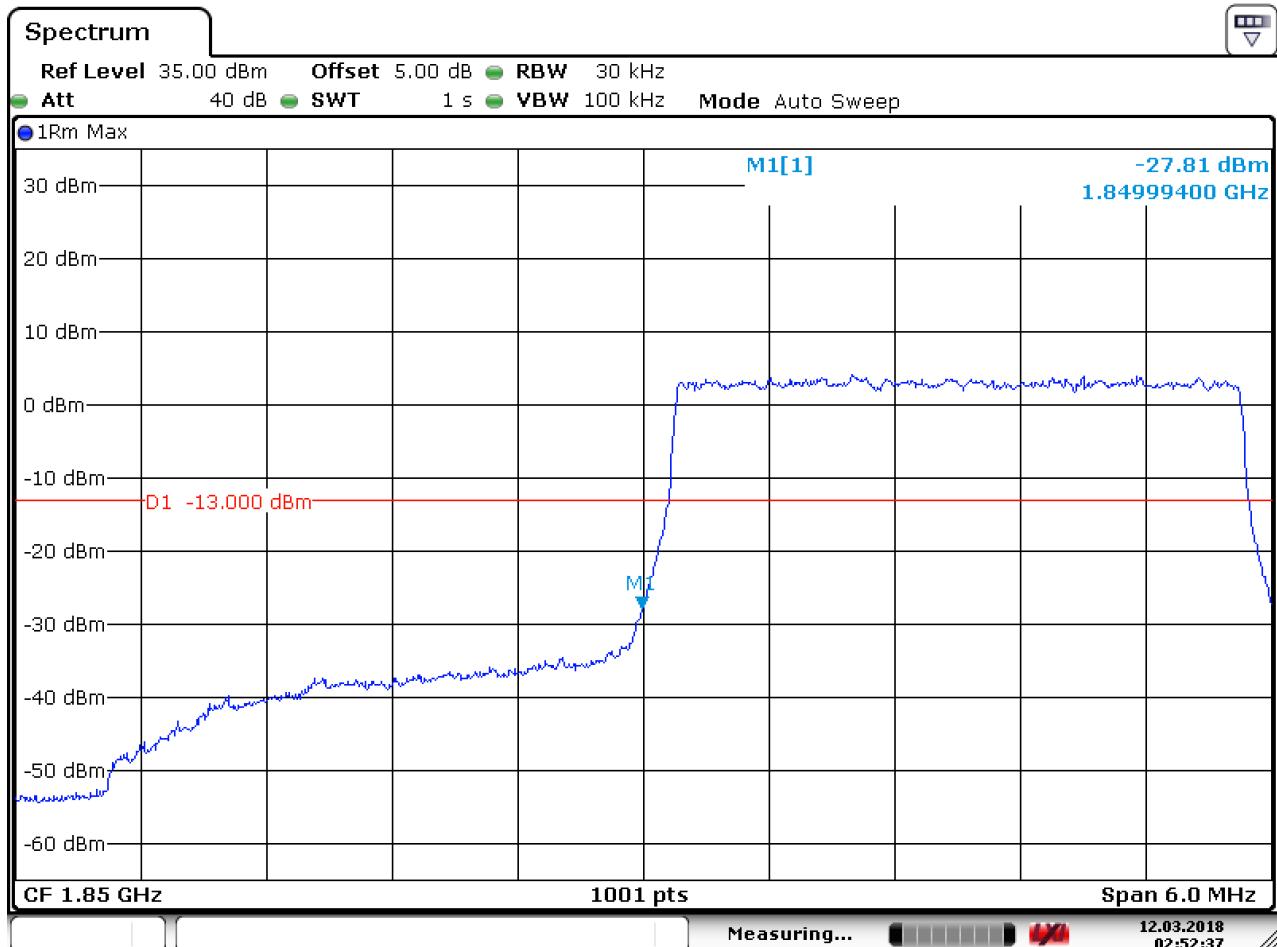
5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



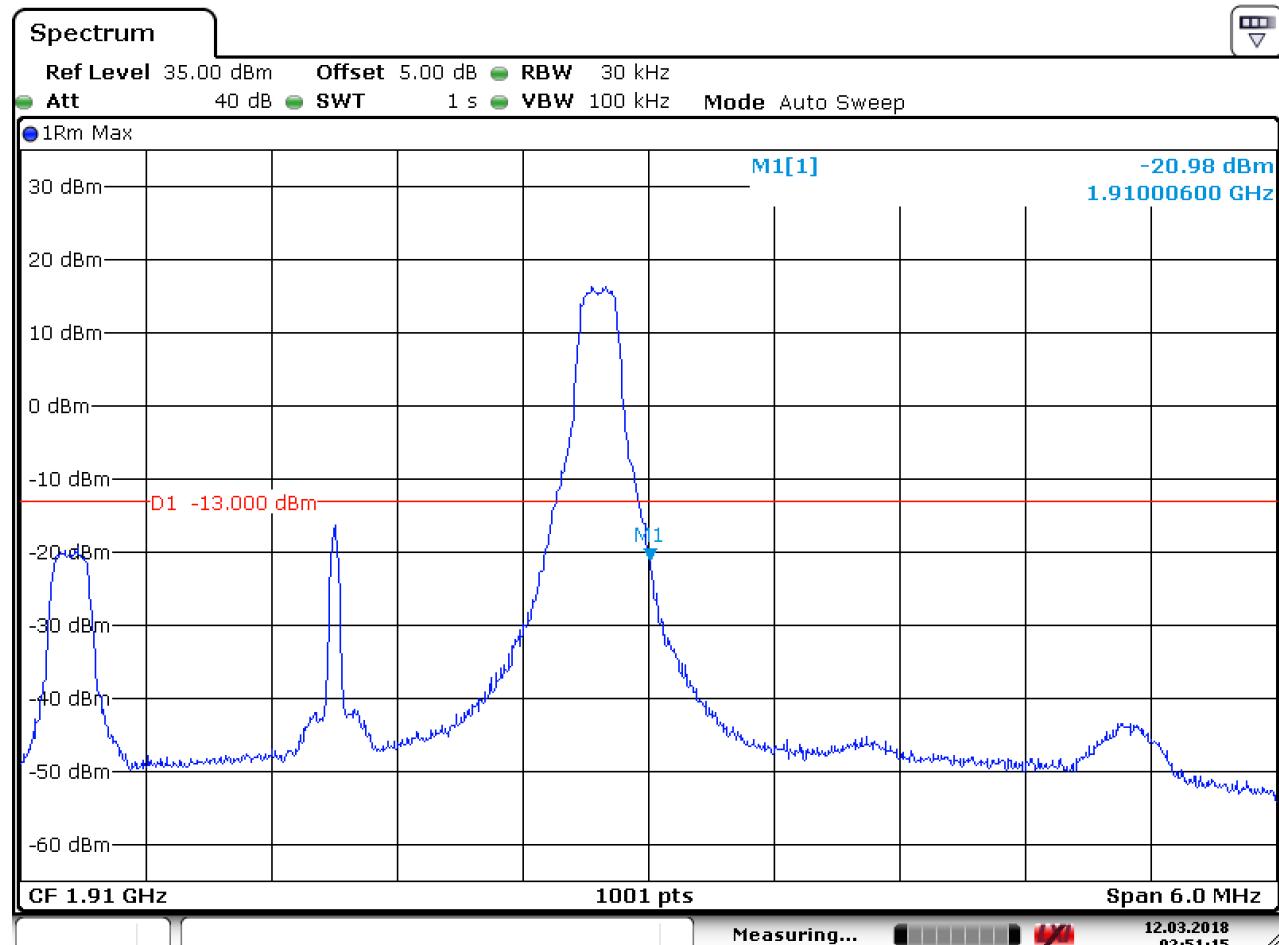
Date: 12.MAR.2018 02:54:59

5.1.1.3.1.2 Test RB=15RB

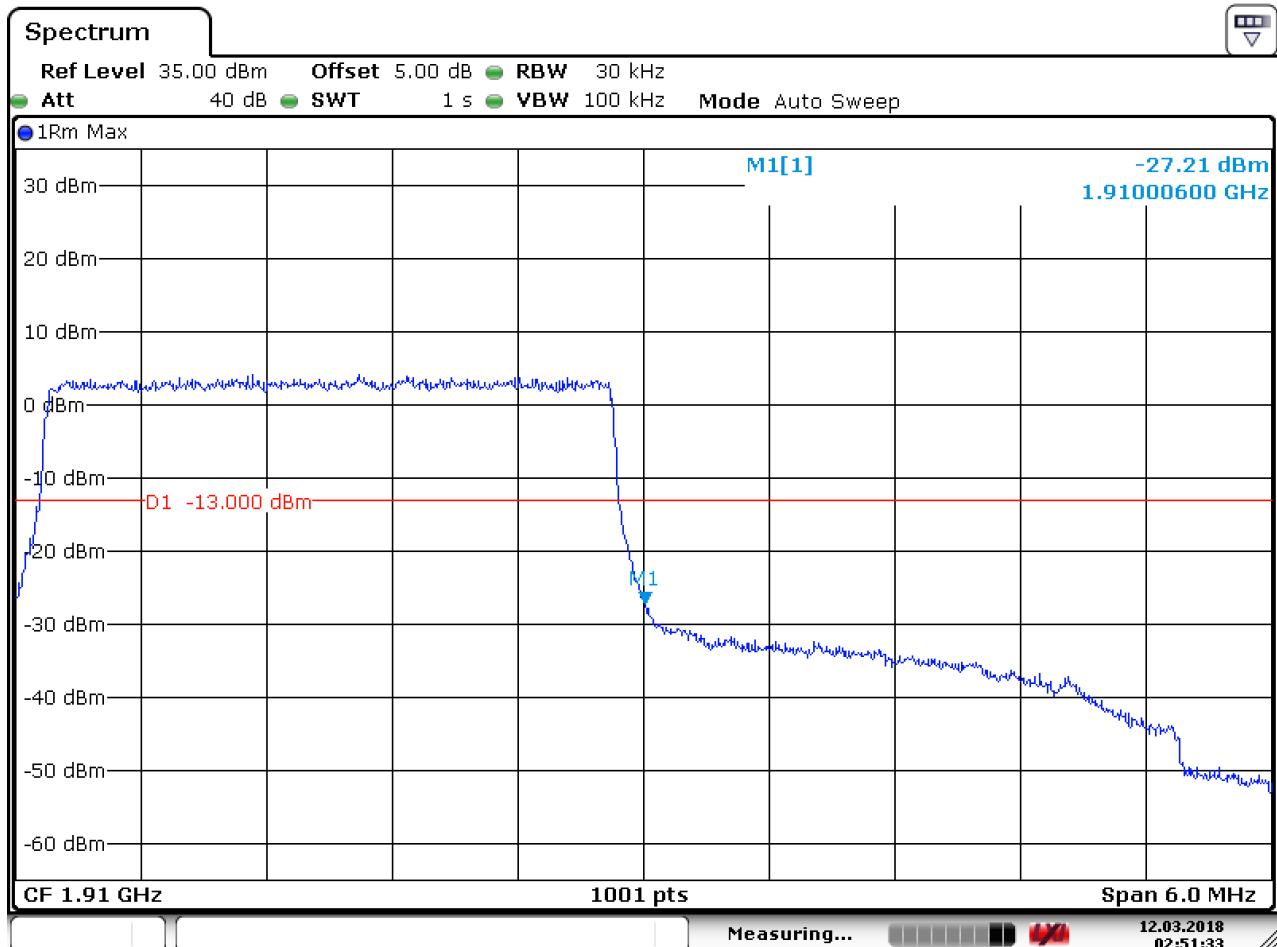
Date: 12.MAR.2018 02:52:37

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



Date: 12.MAR.2018 02:51:16

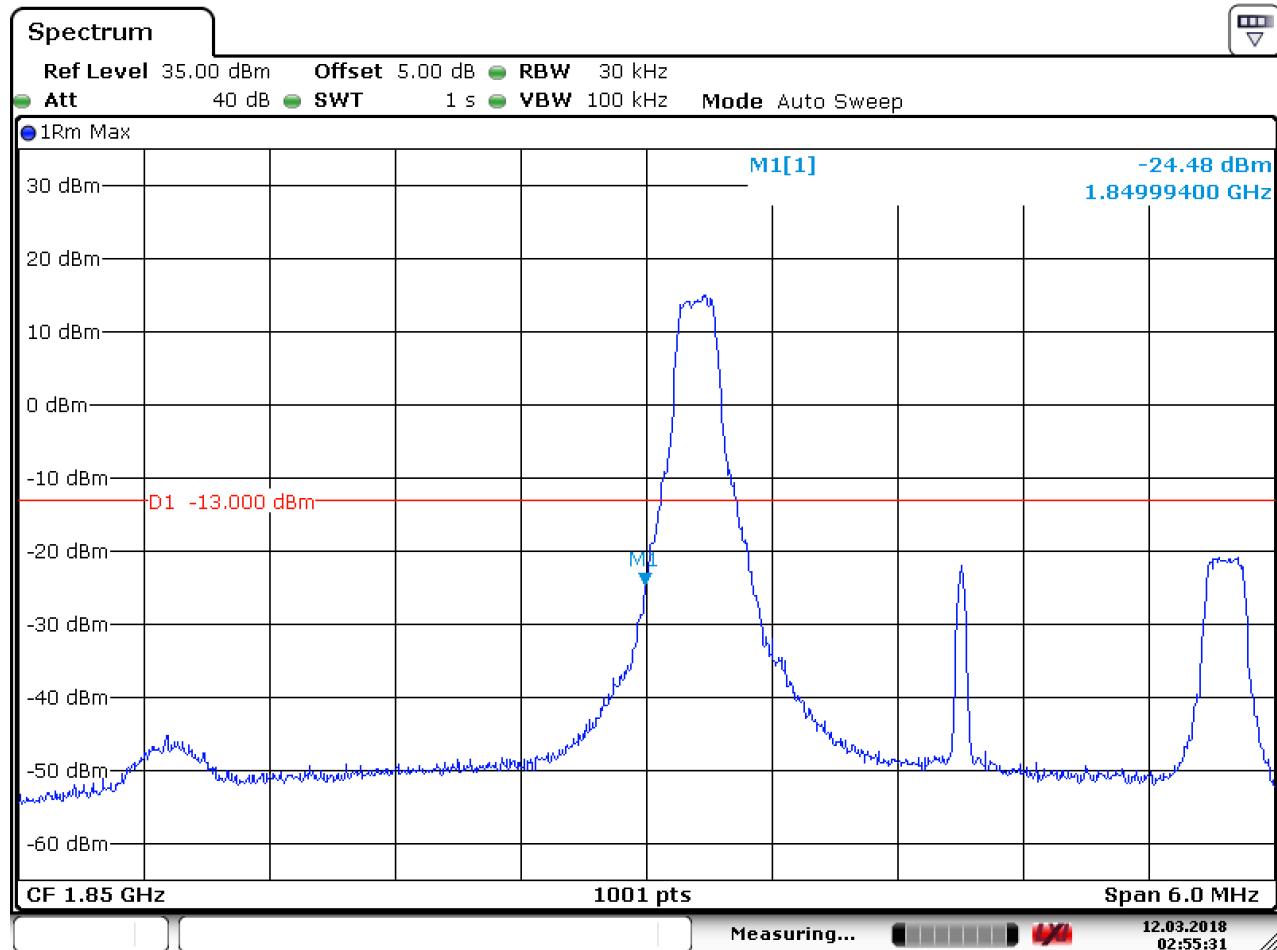
5.1.1.3.2.2 Test RB=15RB

Date: 12.MAR.2018 02:51:34

5.1.1.4 Test Mode = LTE/TM2 3MHz

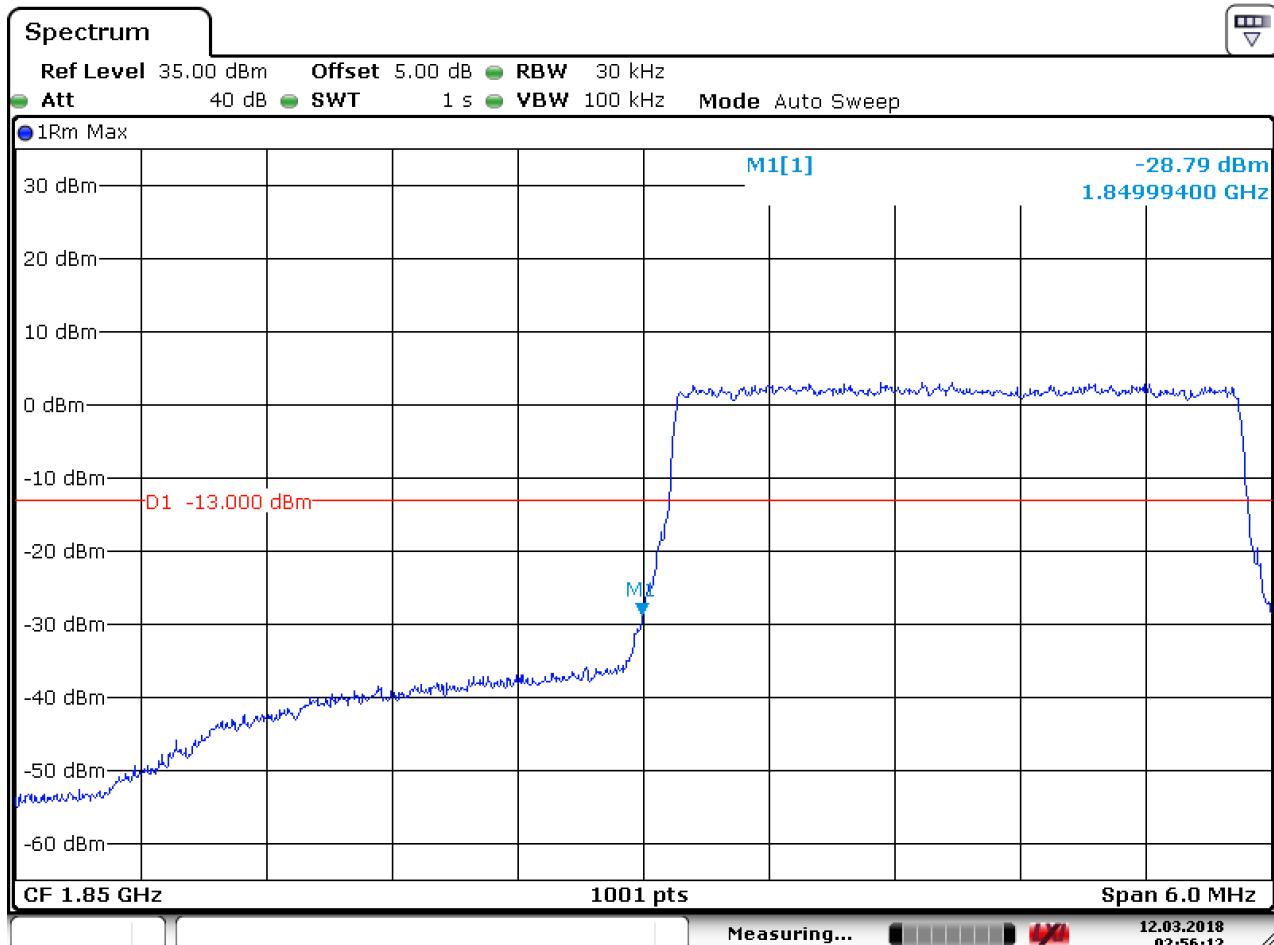
5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

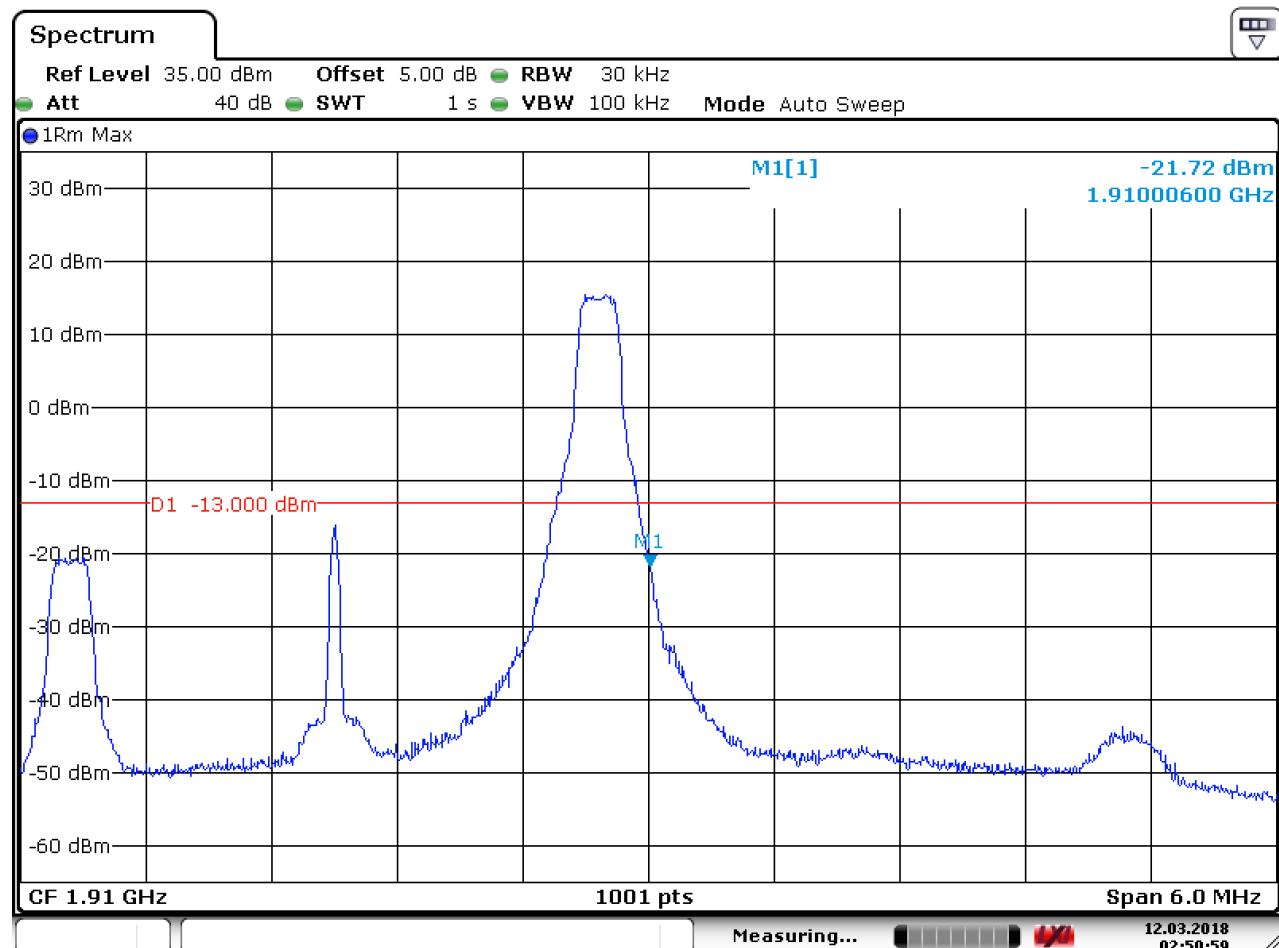


Date: 12.MAR.2018 02:55:32

5.1.1.4.1.2 Test RB=15RB

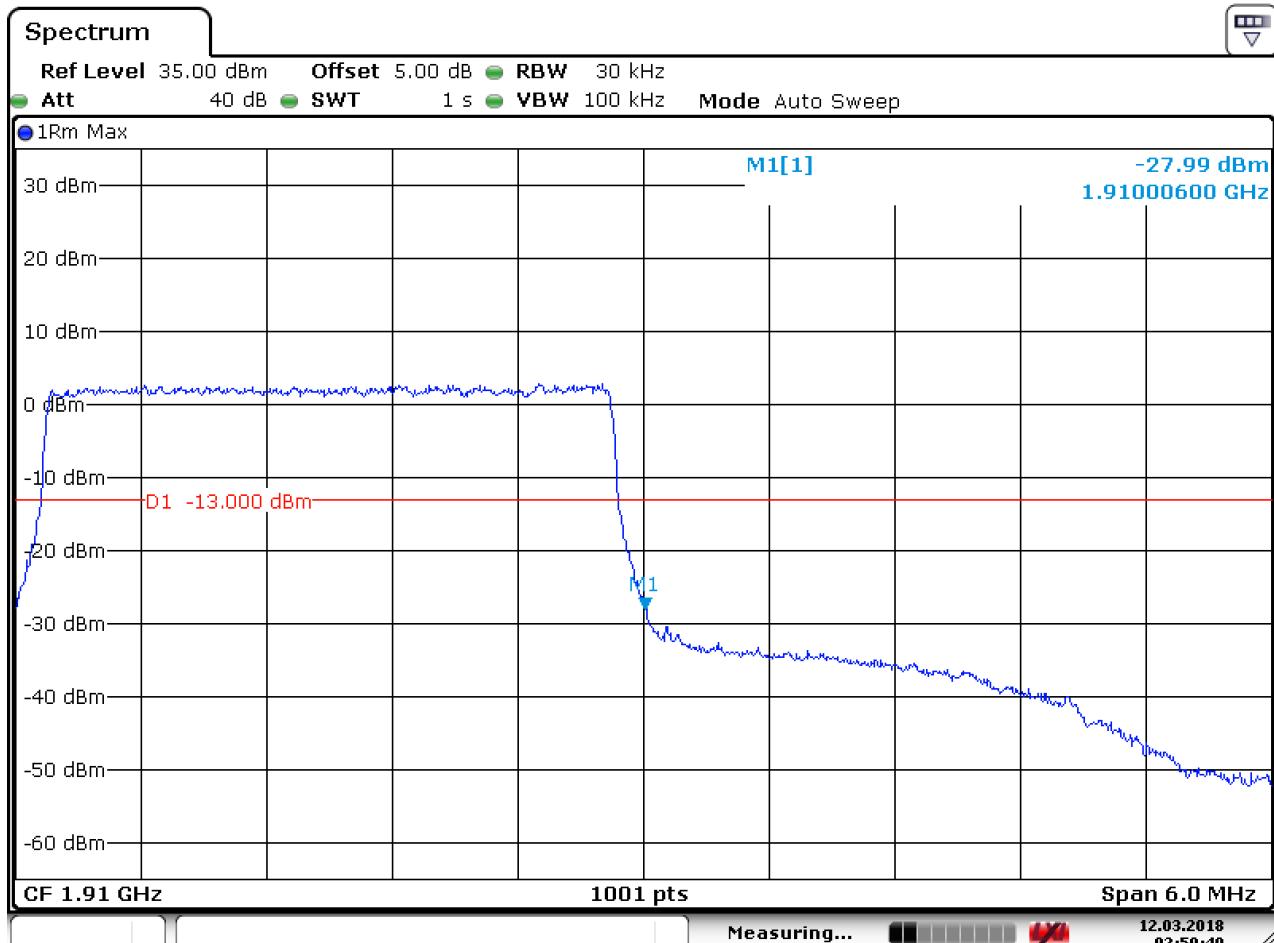


Date: 12.MAR.2018 02:56:13

5.1.1.4.2 Test Channel = HCH**5.1.1.4.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:50:59

5.1.1.4.3 Test RB=15RB

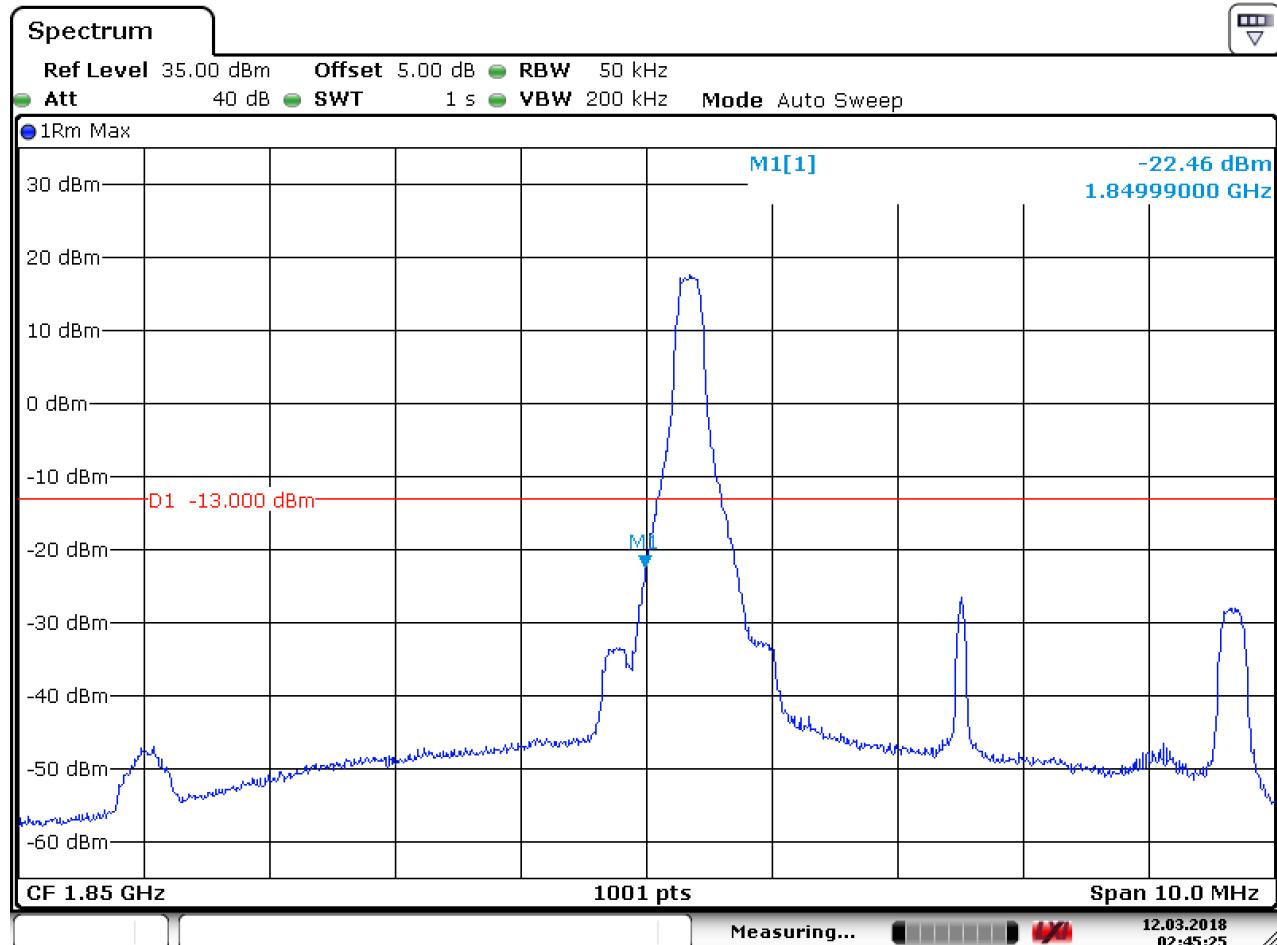


Date: 12.MAR.2018 02:50:41

5.1.1.5 Test Mode = LTE/TM1 5MHz

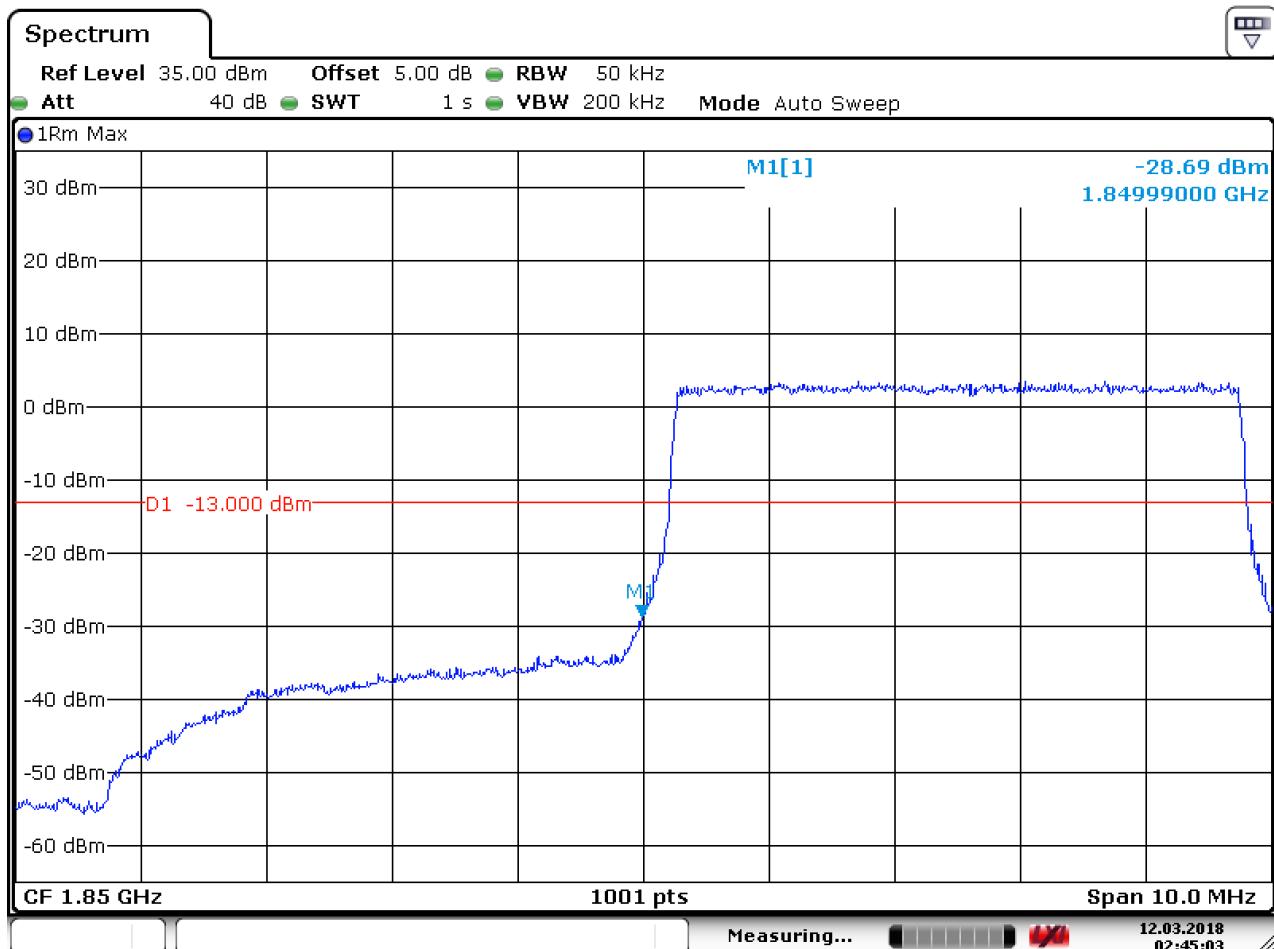
5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

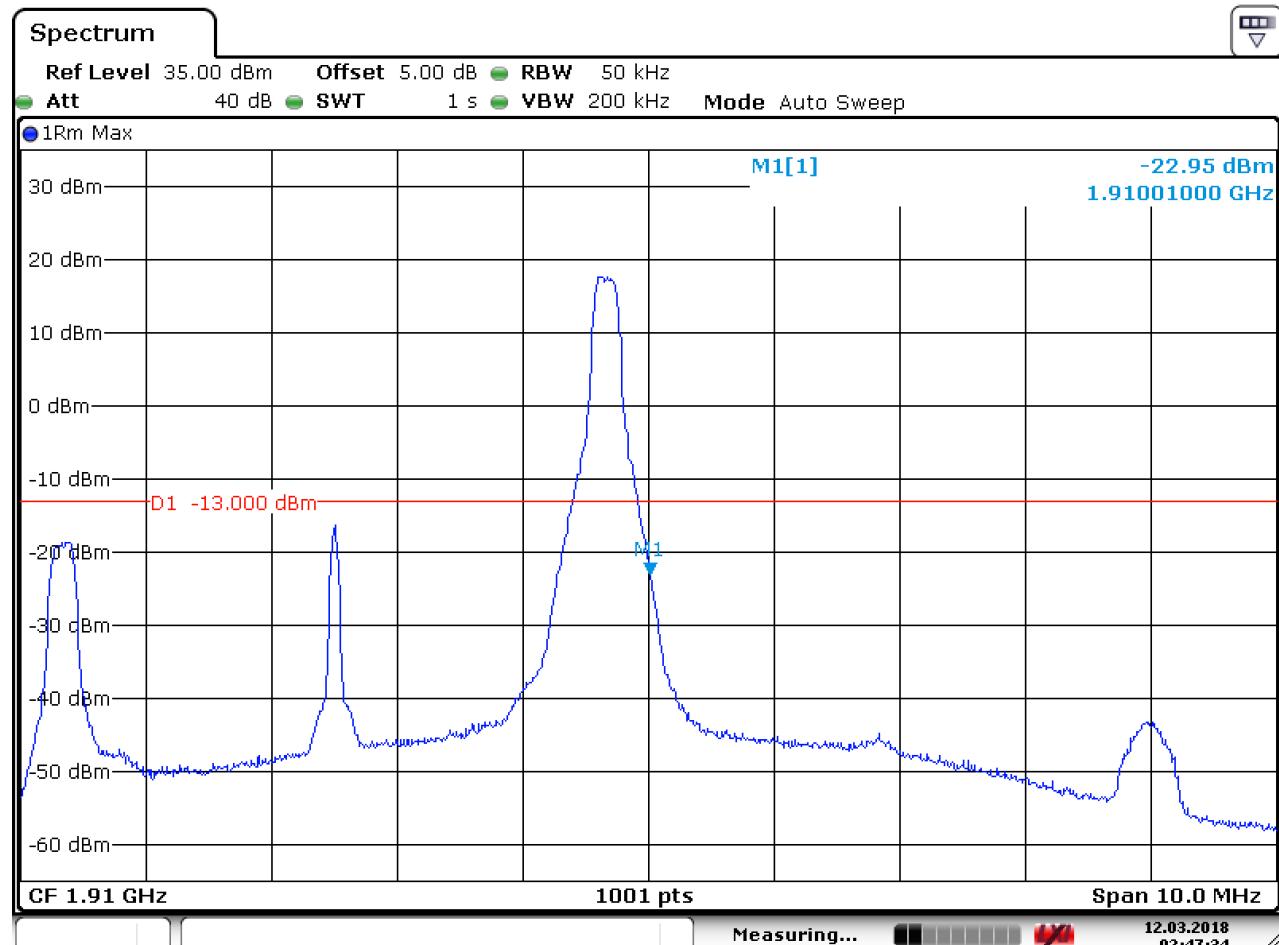


Date: 12.MAR.2018 02:45:25

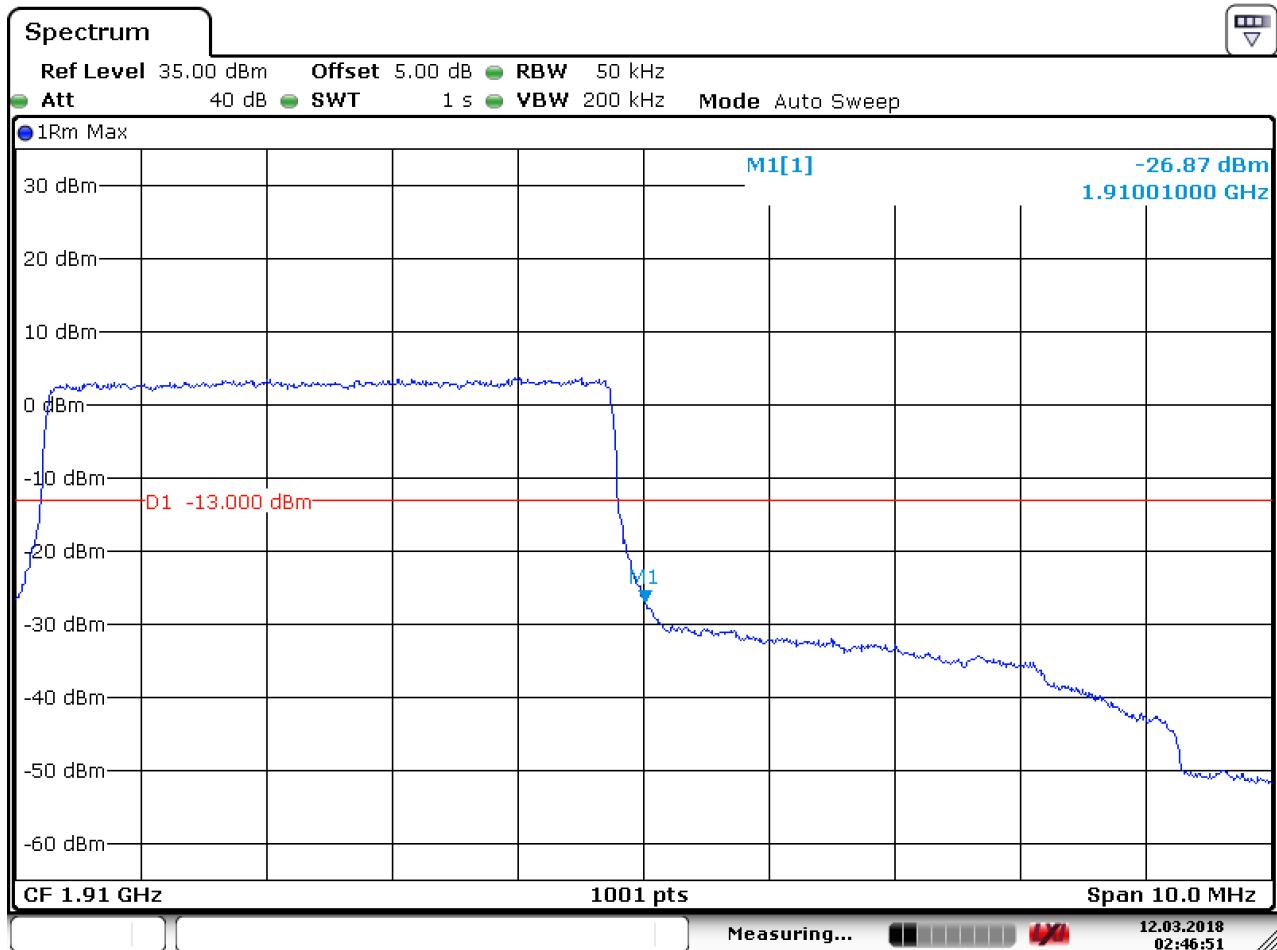
5.1.1.5.1.2 Test RB=25RB



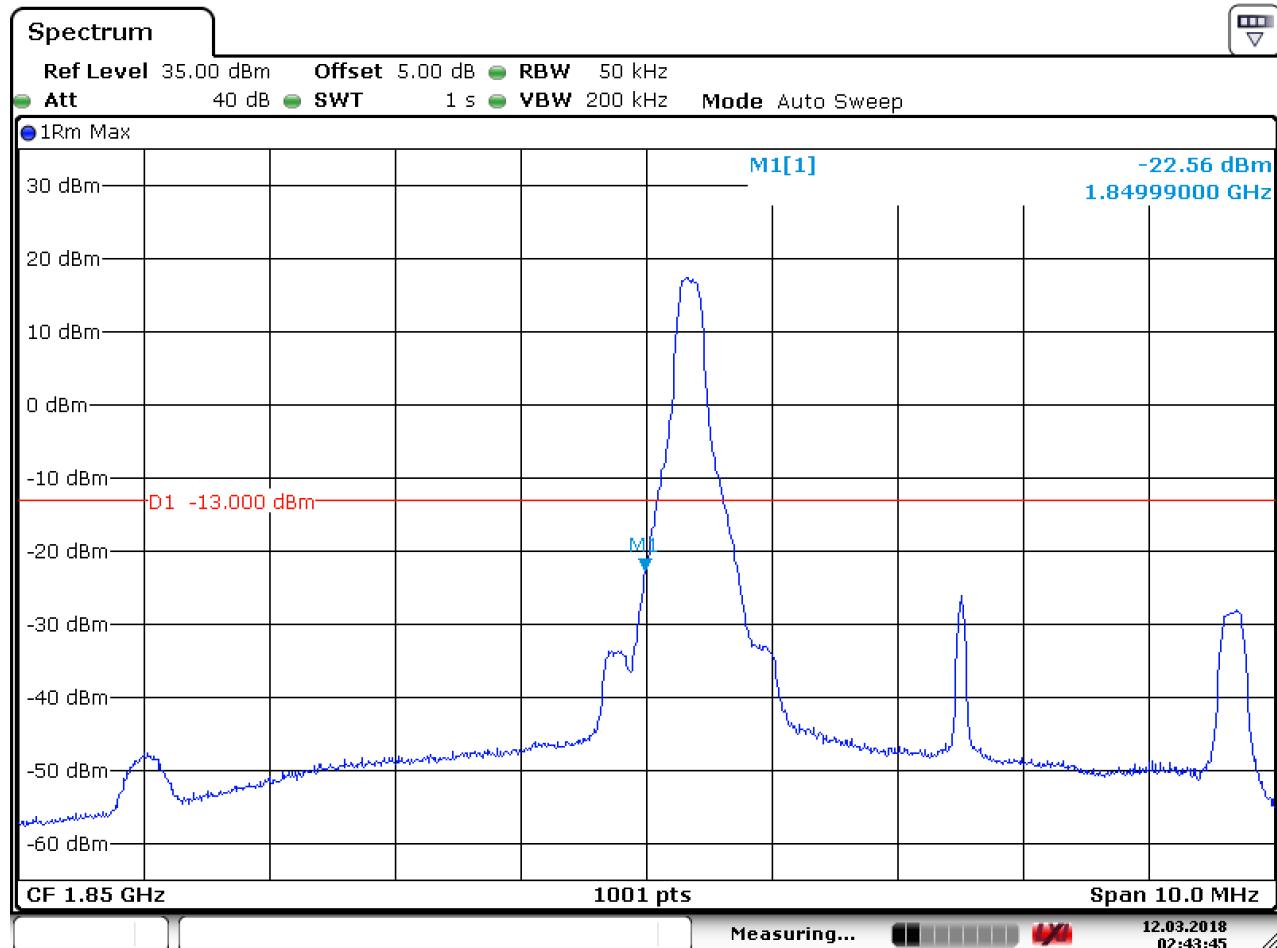
Date: 12.MAR.2018 02:45:03

5.1.1.5.2 Test Channel = HCH**5.1.1.5.2.1 Test RB=1RB**

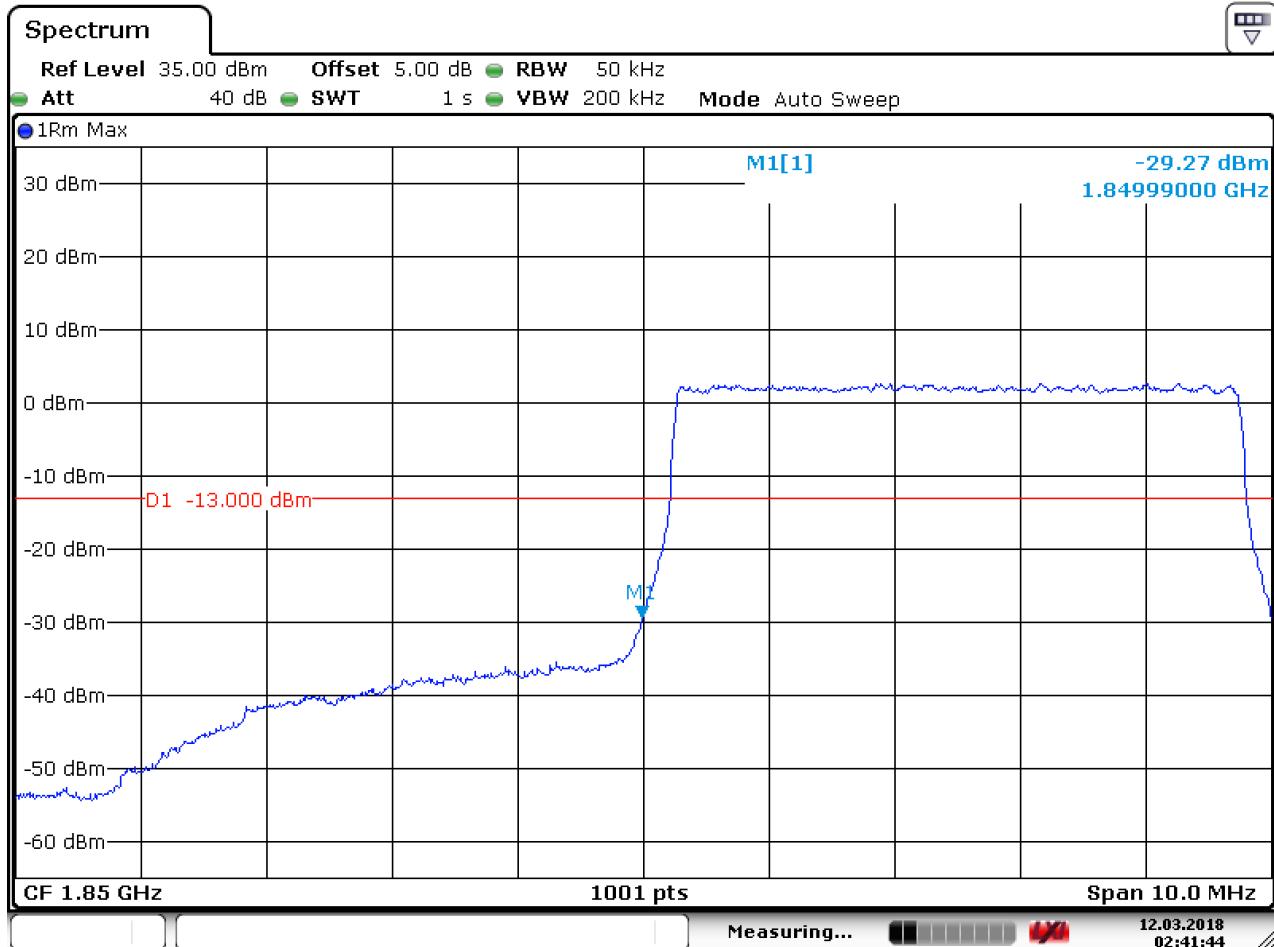
Date: 12.MAR.2018 02:47:34

5.1.1.5.2.2 Test RB=25RB

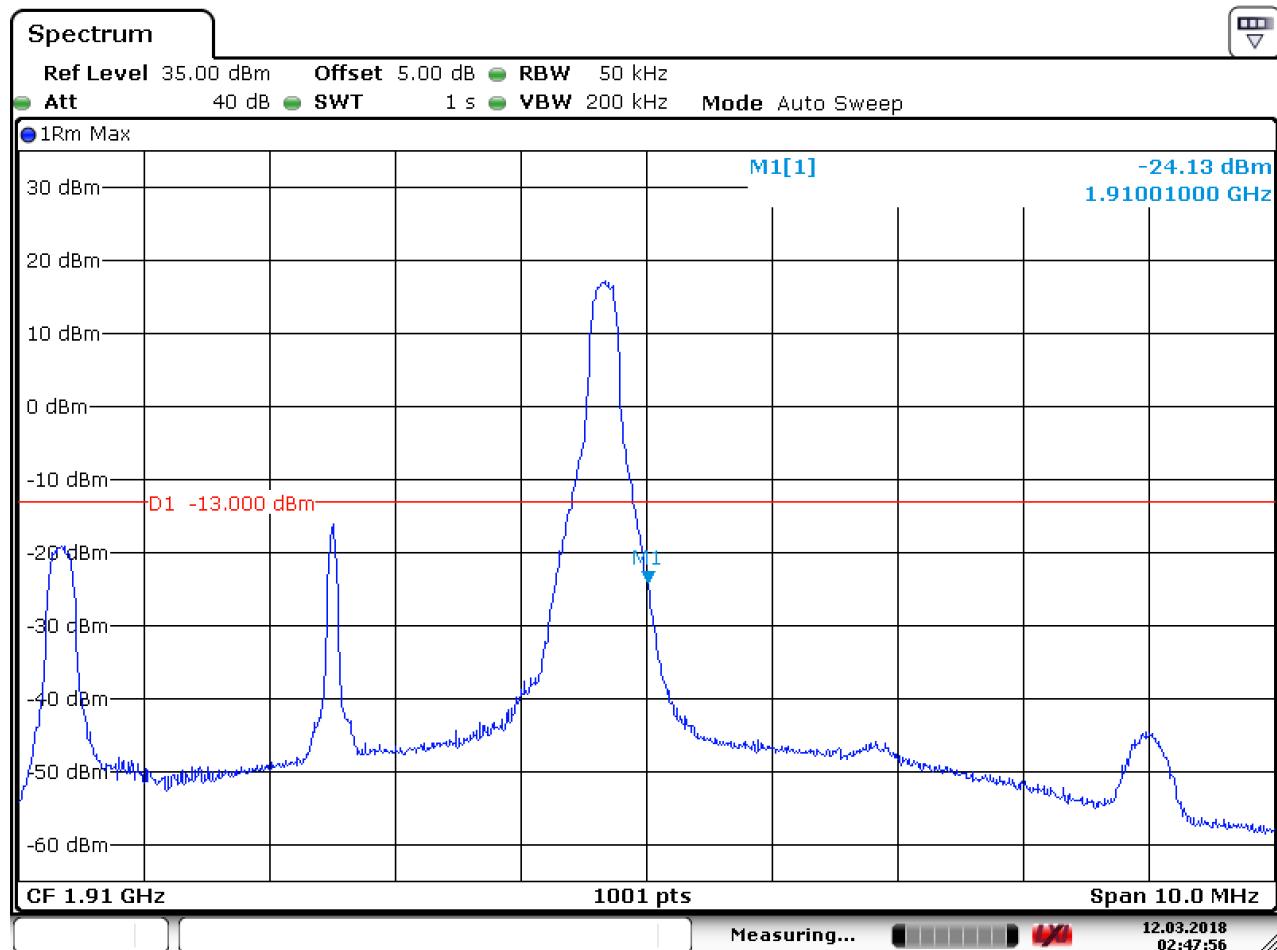
Date: 12.MAR.2018 02:46:51

5.1.1.6 Test Mode = LTE/TM2 5MHz**5.1.1.6.1 Test Channel = LCH****5.1.1.6.1.1 Test RB=1RB**

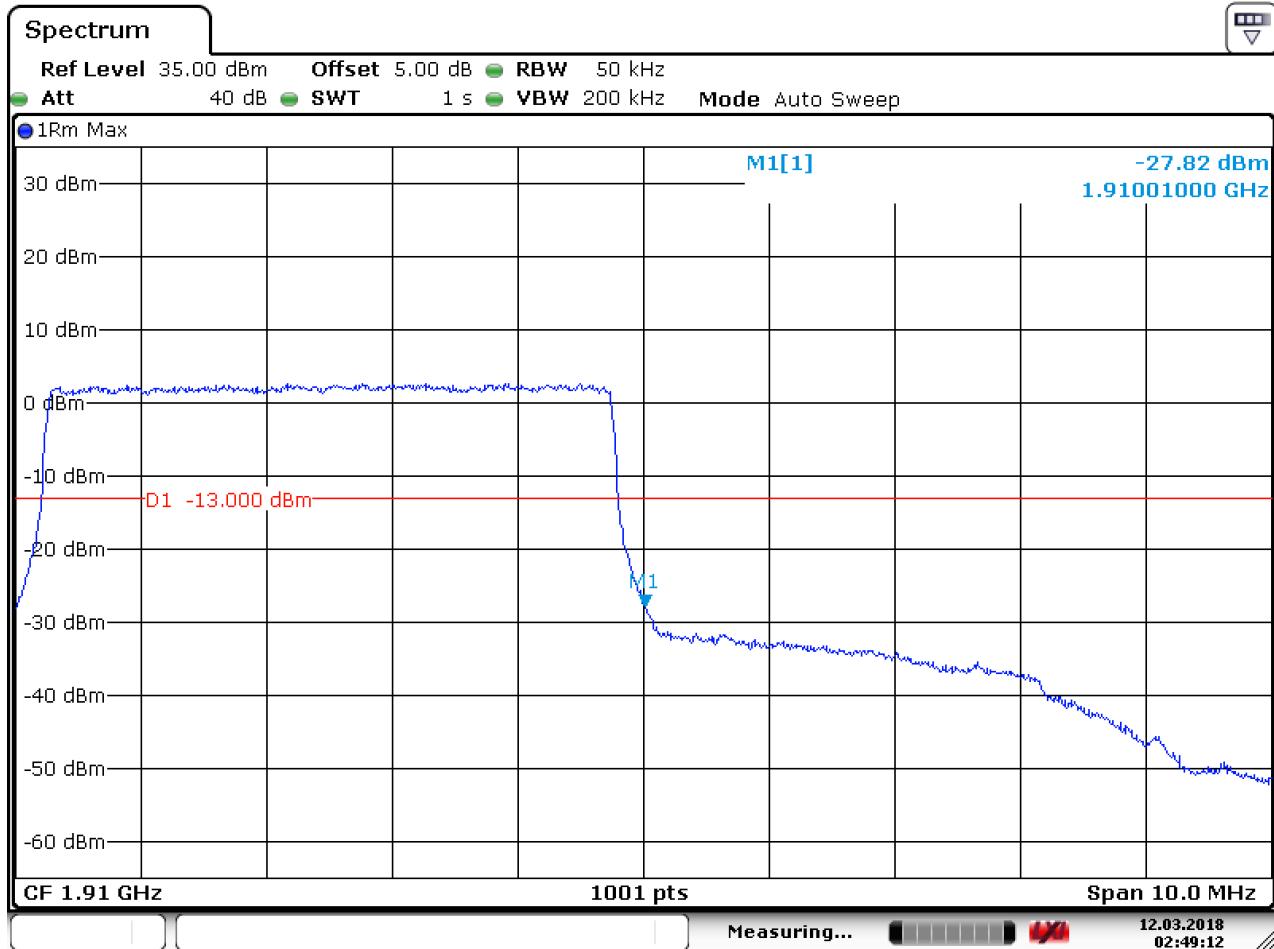
Date: 12.MAR.2018 02:43:45

5.1.1.6.1.2 Test RB=25RB

Date: 12.MAR.2018 02:41:45

5.1.1.6.2 Test Channel = HCH**5.1.1.6.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:47:57

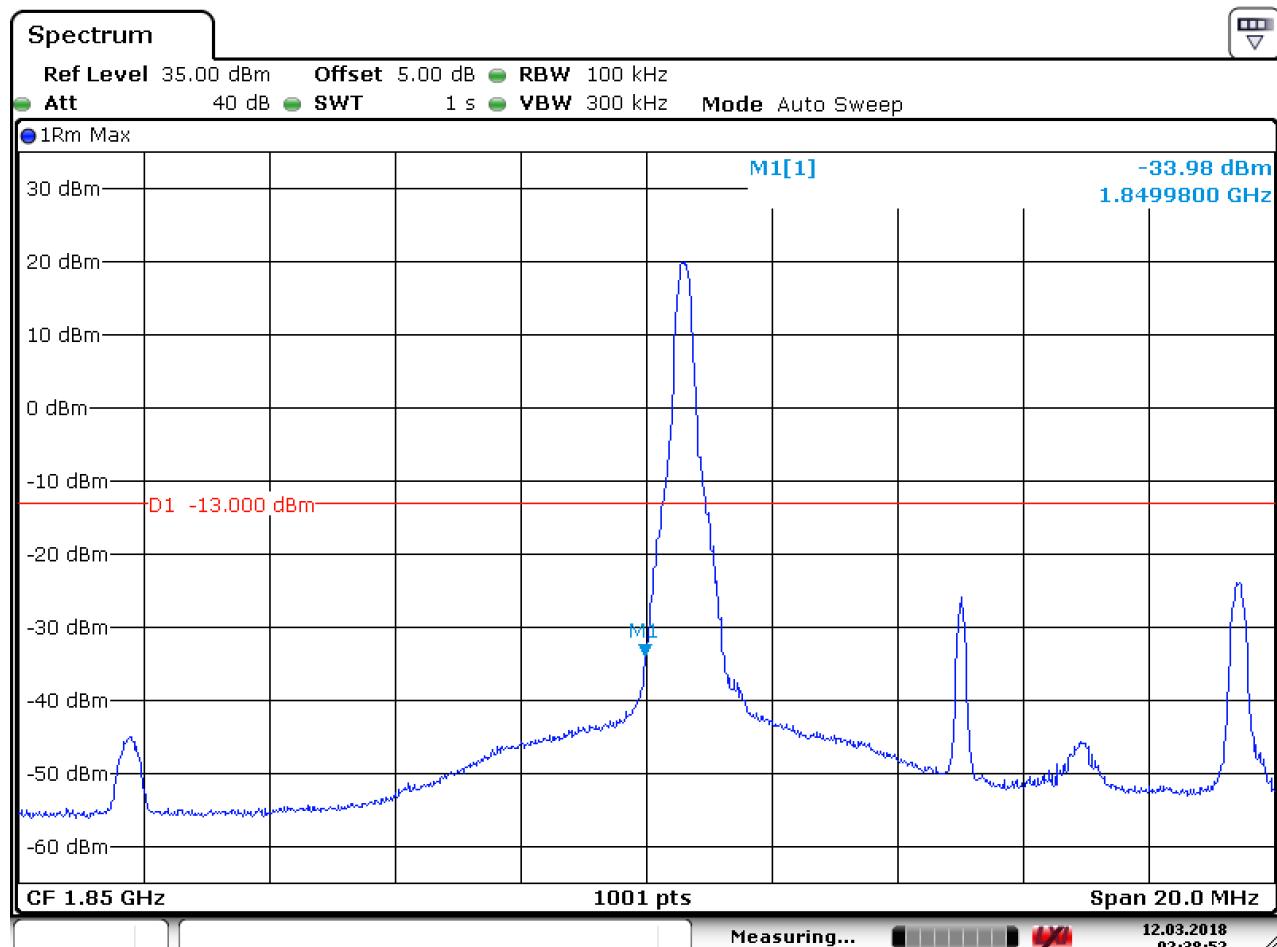
5.1.1.6.2.2 Test RB=25RB

Date: 12.MAR.2018 02:49:12

5.1.1.7 Test Mode = LTE/TM1 10MHz

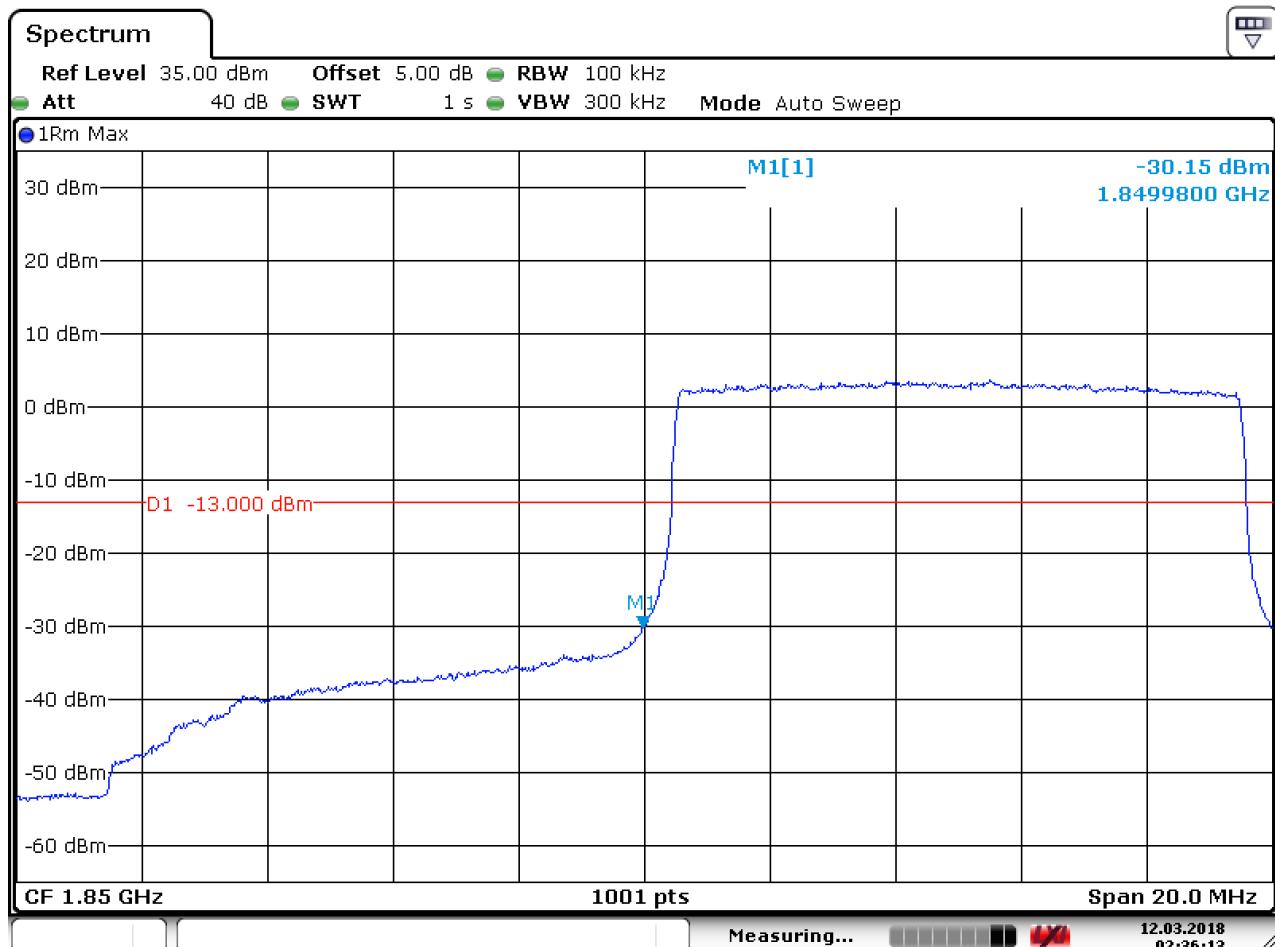
5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

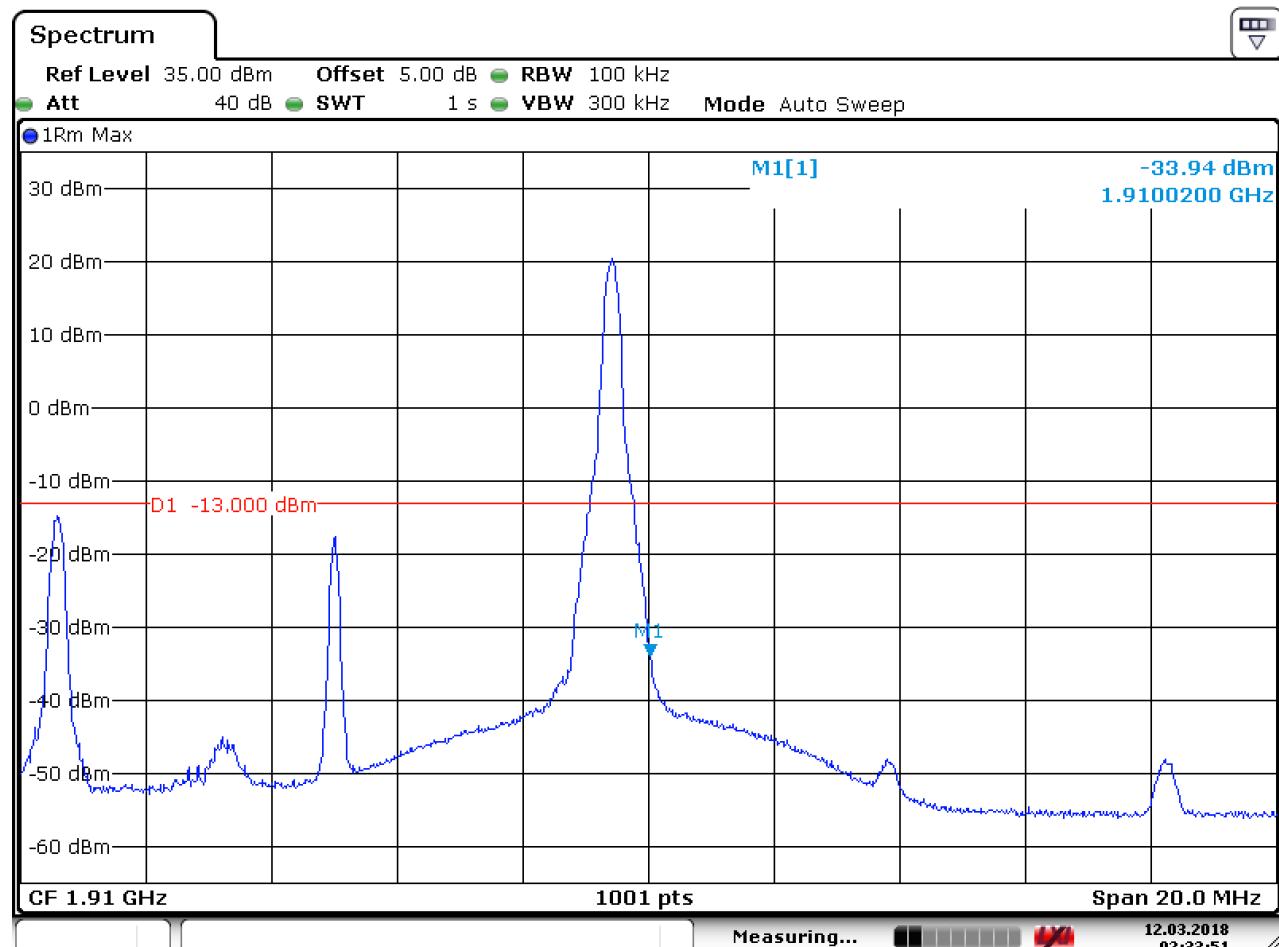


Date: 12.MAR.2018 02:38:52

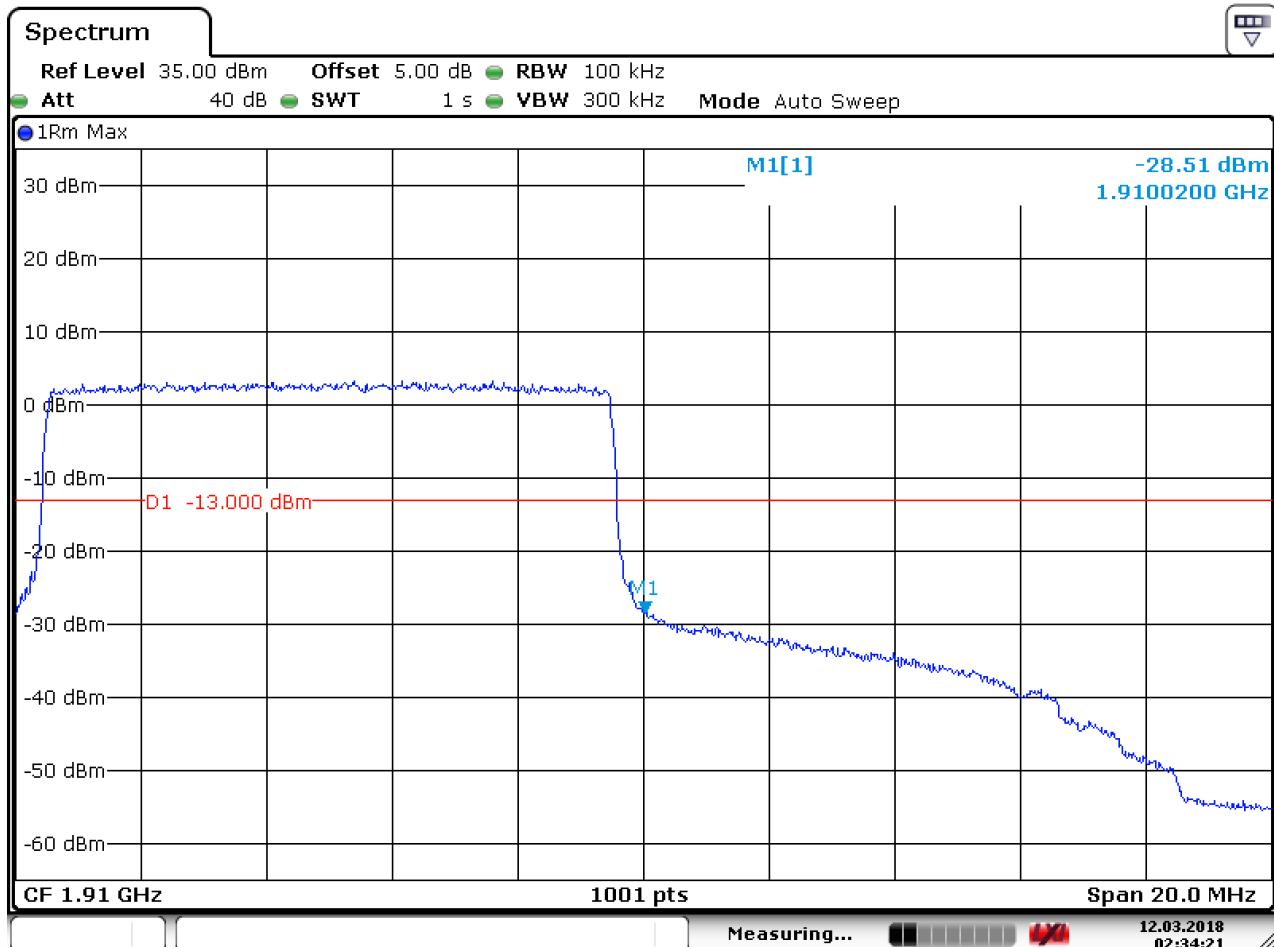
5.1.1.7.1.2 Test RB=50RB



Date: 12.MAR.2018 02:36:14

5.1.1.7.2 Test Channel = HCH**5.1.1.7.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:33:52

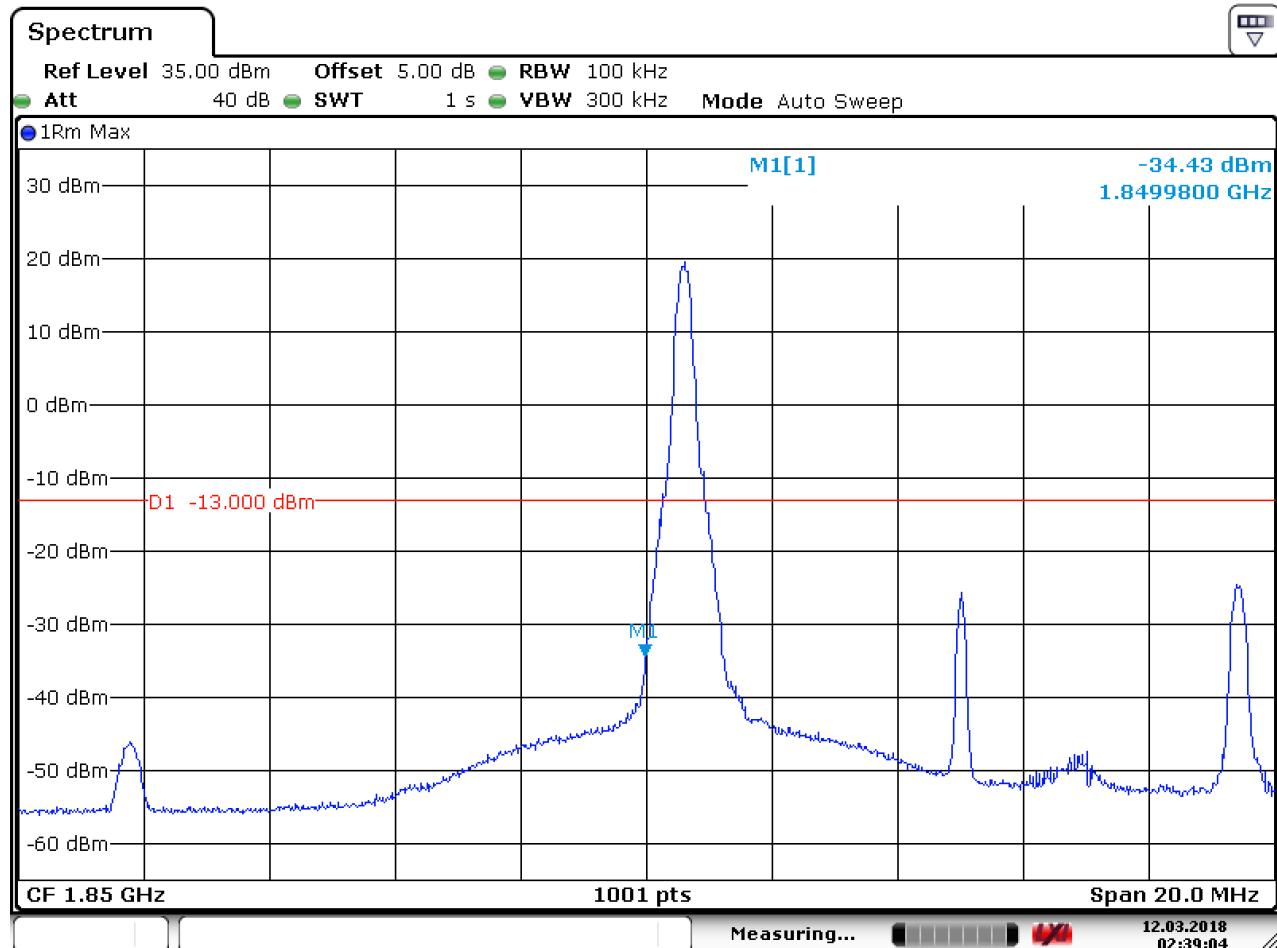
5.1.1.7.2.2 Test RB=50RB

Date: 12.MAR.2018 02:34:21

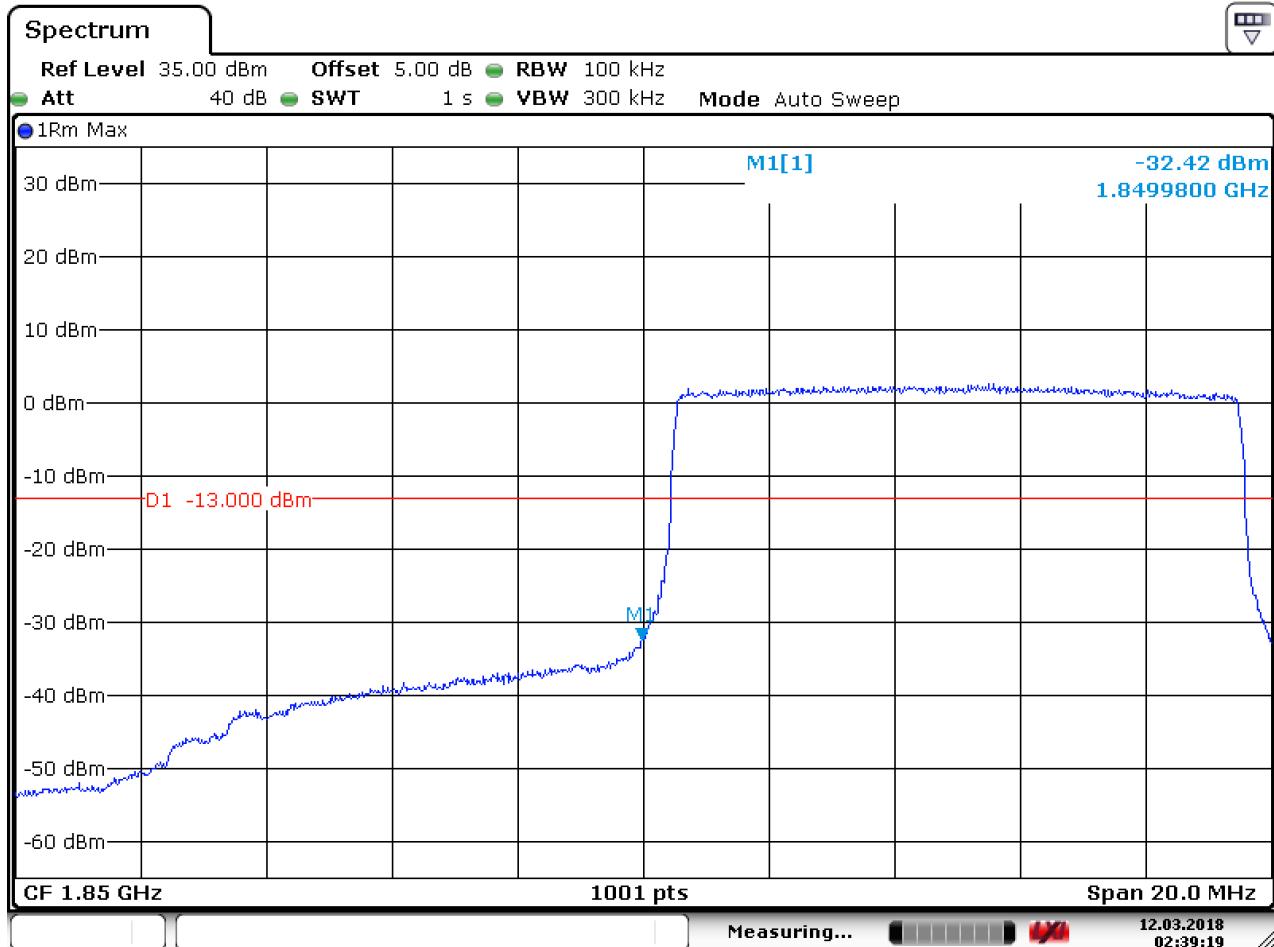
5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

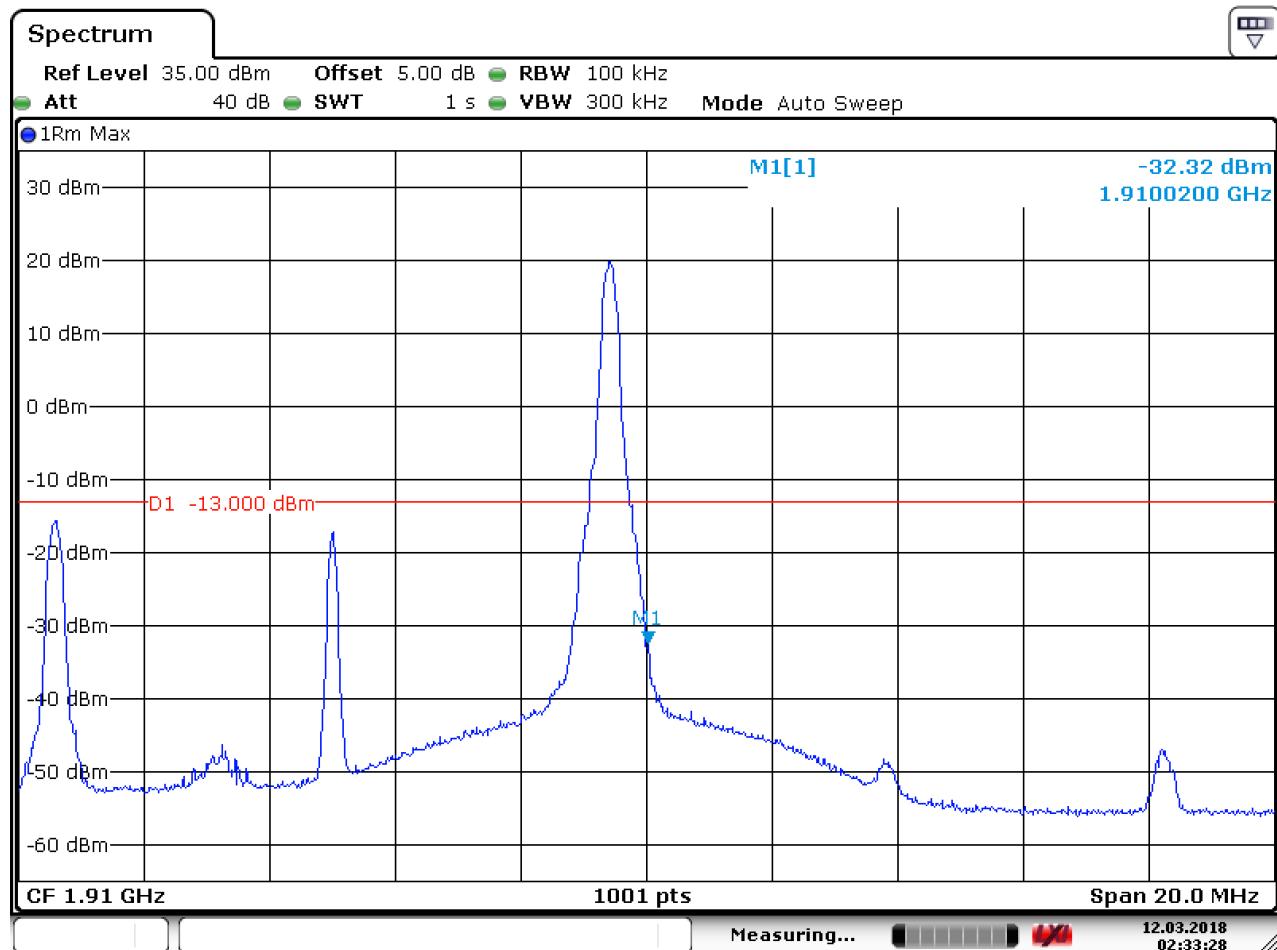
5.1.1.8.1.1 Test RB=1RB



Date: 12.MAR.2018 02:39:04

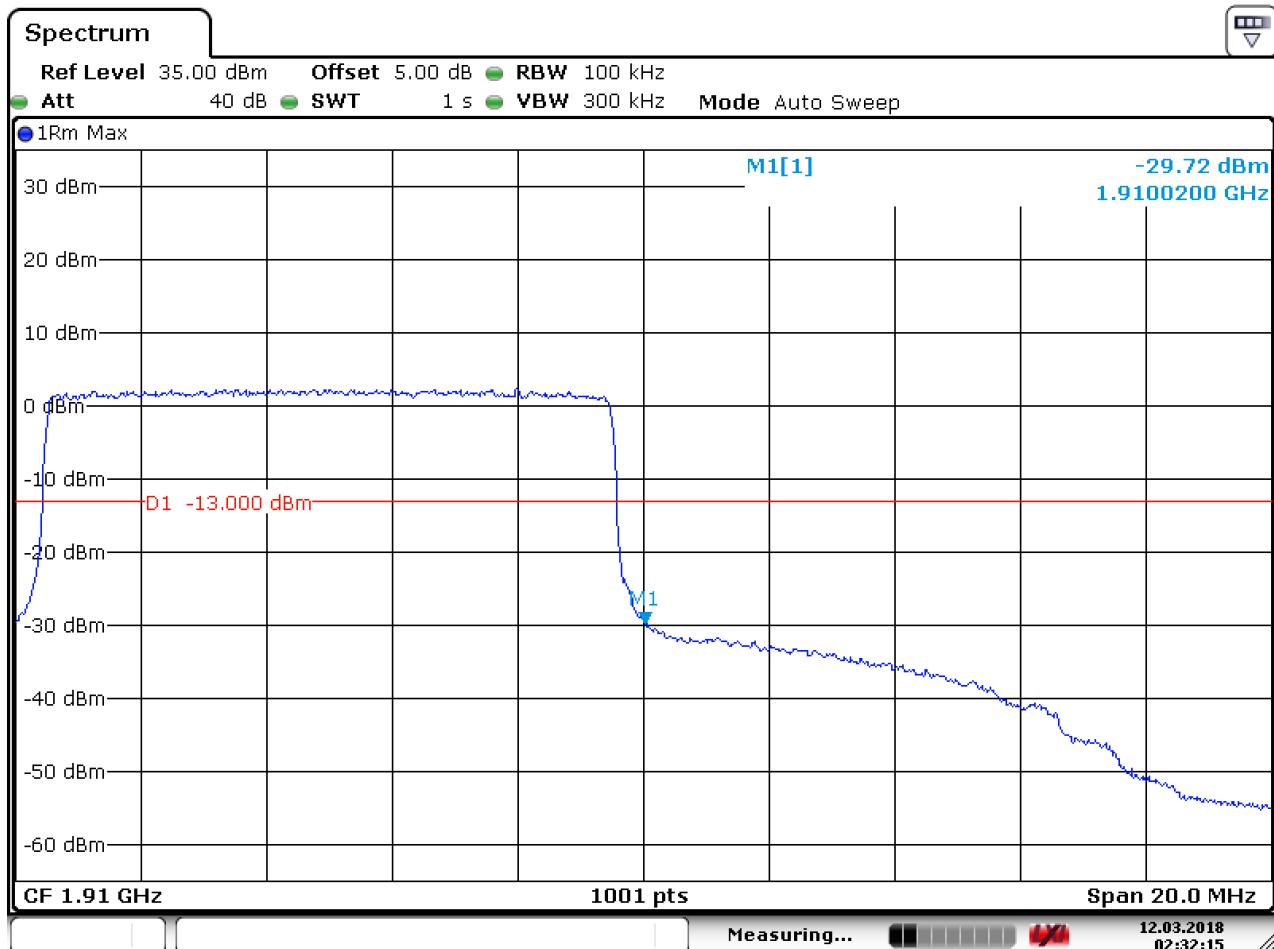
5.1.1.8.1.2 Test RB=50RB

Date: 12.MAR.2018 02:39:19

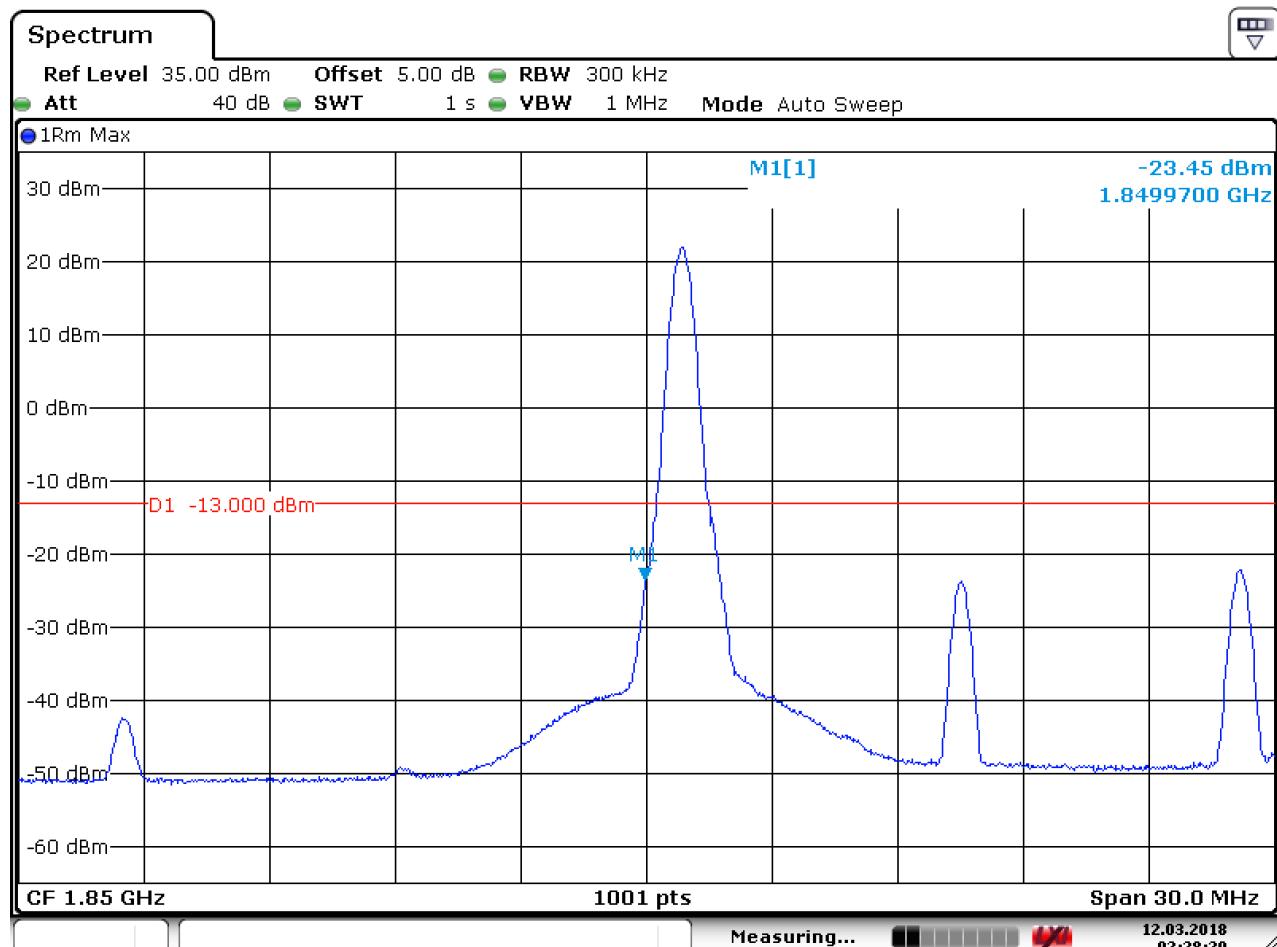
5.1.1.8.2 Test Channel = HCH**5.1.1.8.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:33:29

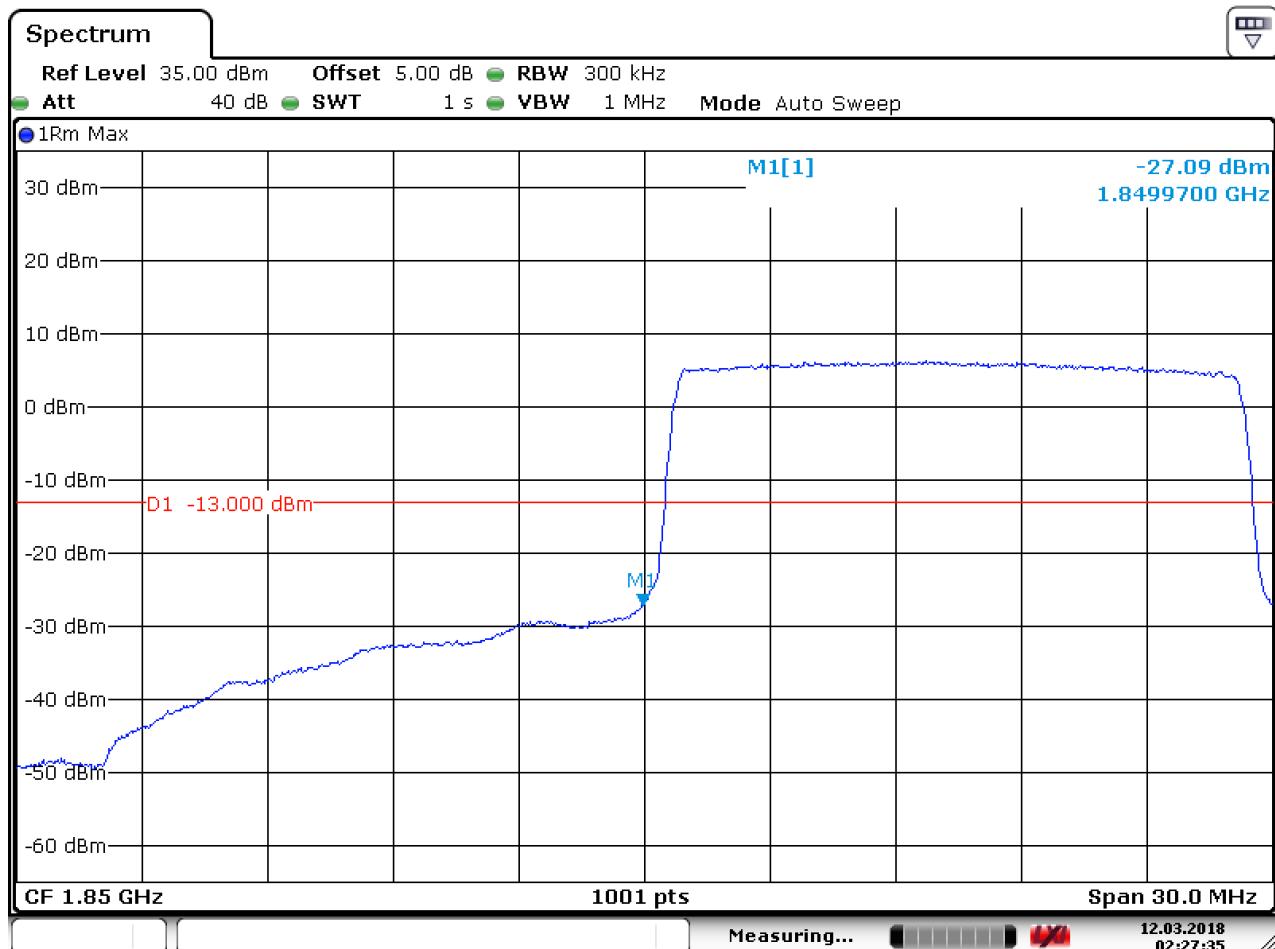
5.1.1.8.2.2 Test RB=50RB



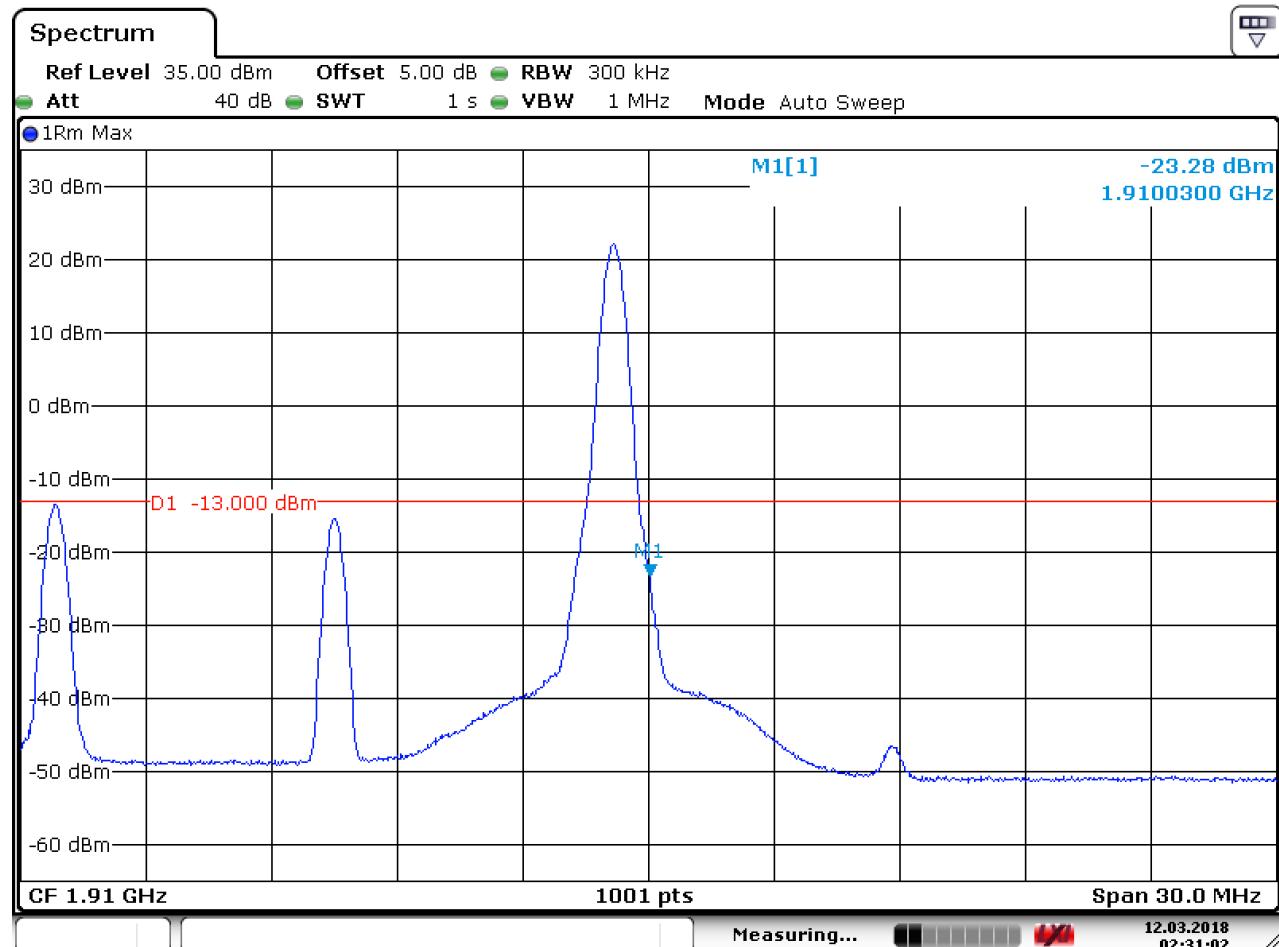
Date: 12.MAR.2018 02:32:15

5.1.1.9 Test Mode = LTE/TM1 15MHz**5.1.1.9.1 Test Channel = LCH****5.1.1.9.1.1 Test RB=1RB**

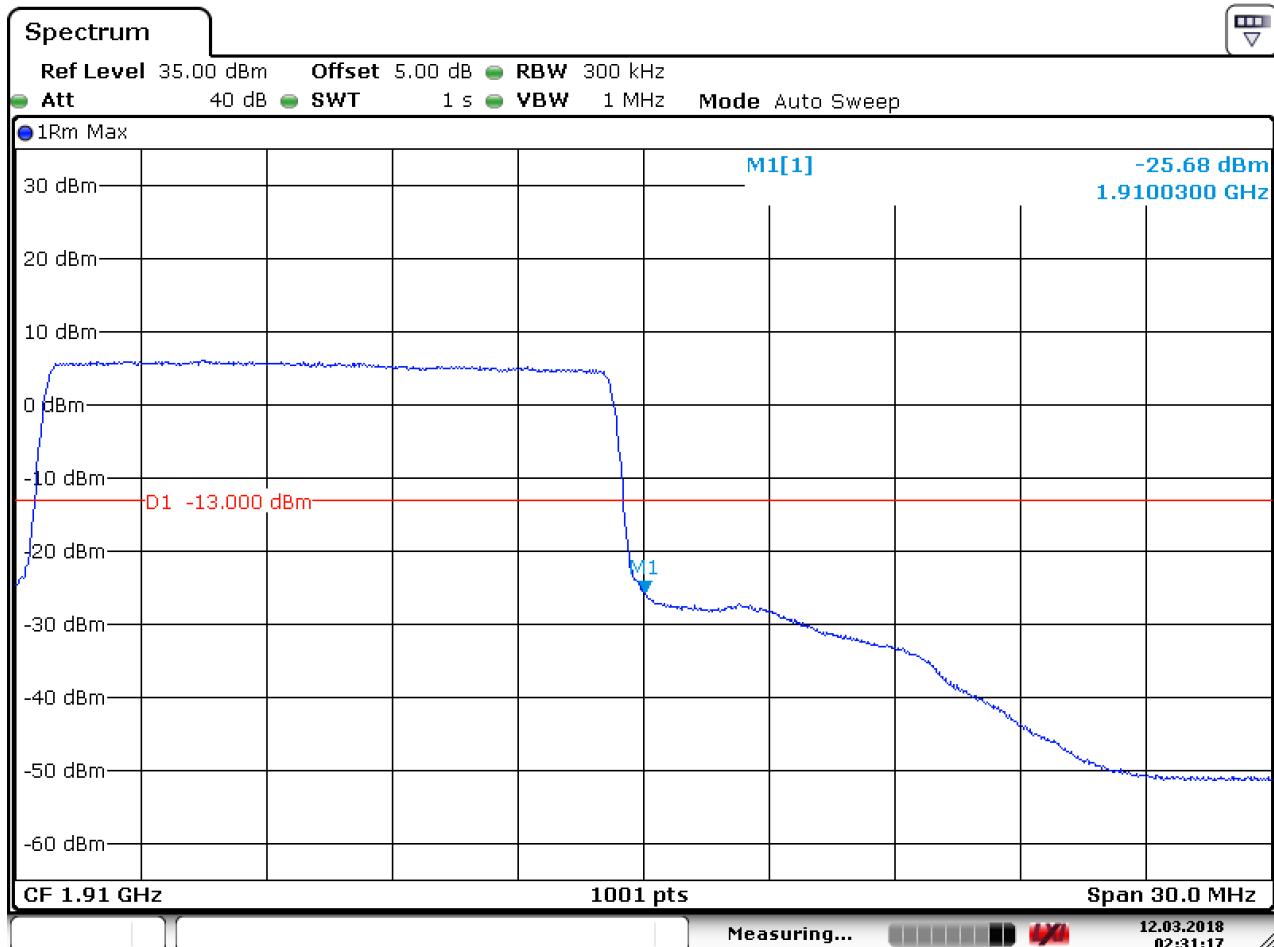
Date: 12.MAR.2018 02:28:29

5.1.1.9.1.2 Test RB=75RB

Date: 12.MAR.2018 02:27:36

5.1.1.9.2 Test Channel = HCH**5.1.1.9.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:31:03

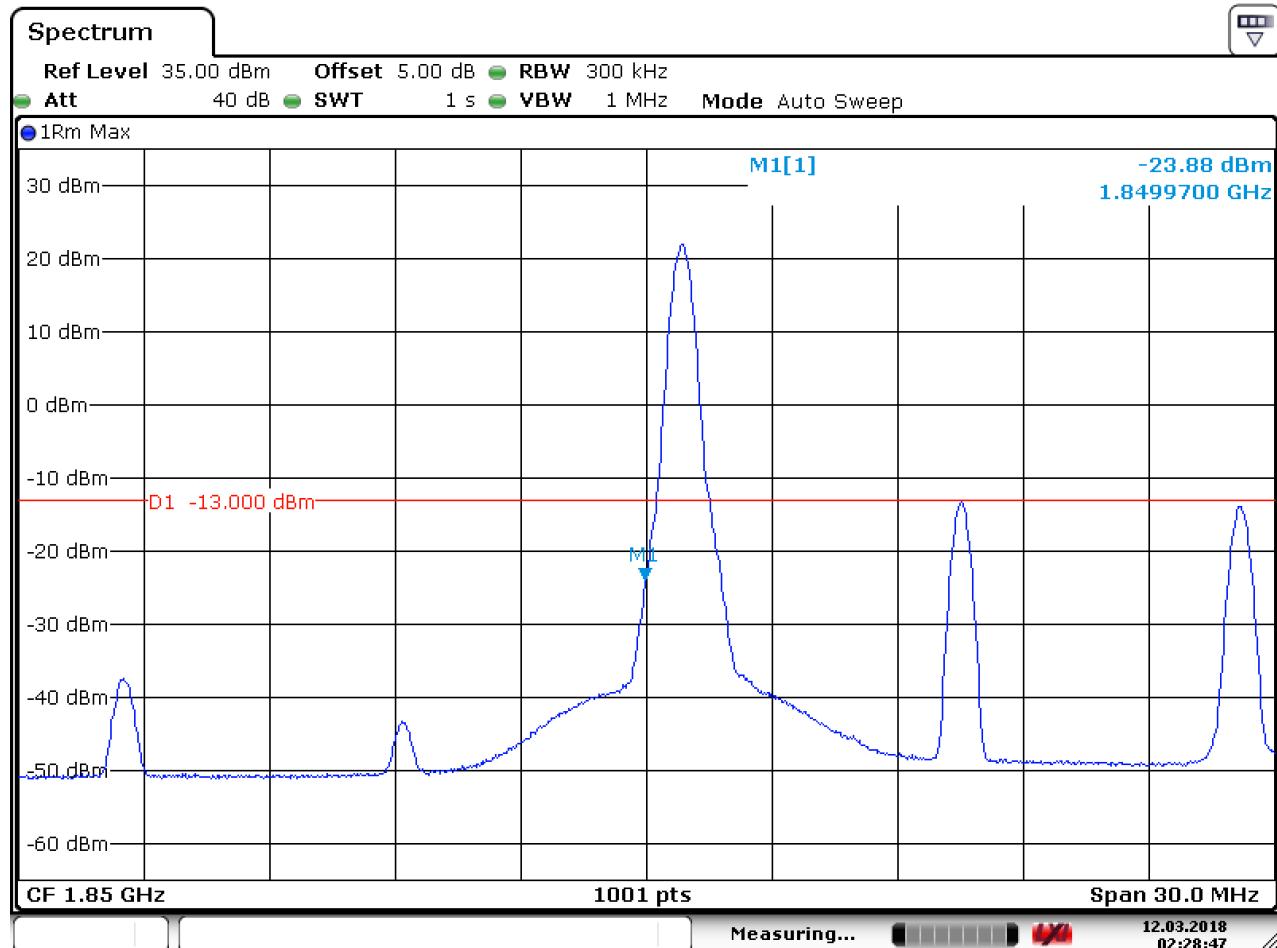
5.1.1.9.2.2 Test RB=75RB

Date: 12.MAR.2018 02:31:18

5.1.1.10 Test Mode = LTE/TM2 15MHz

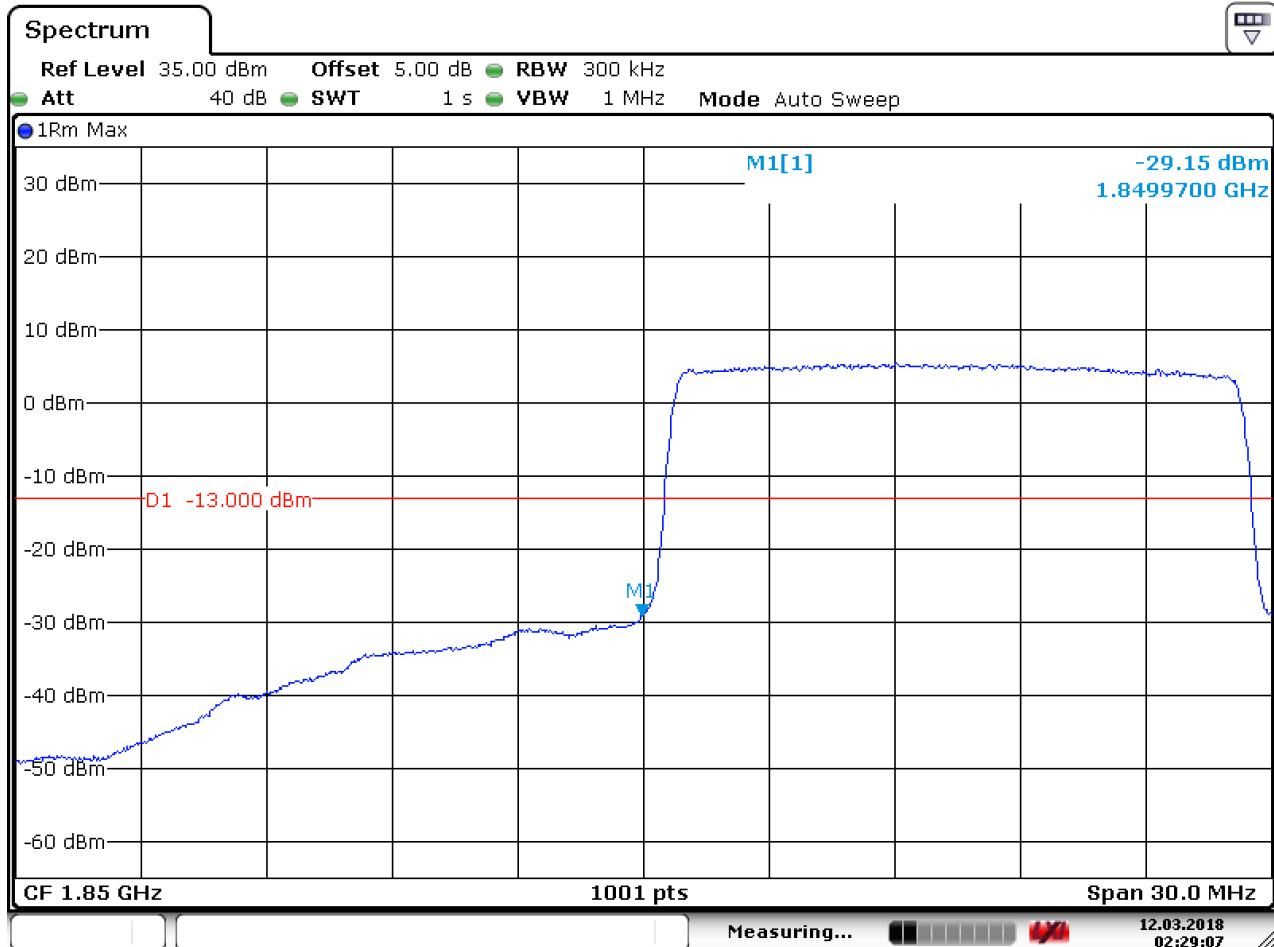
5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB

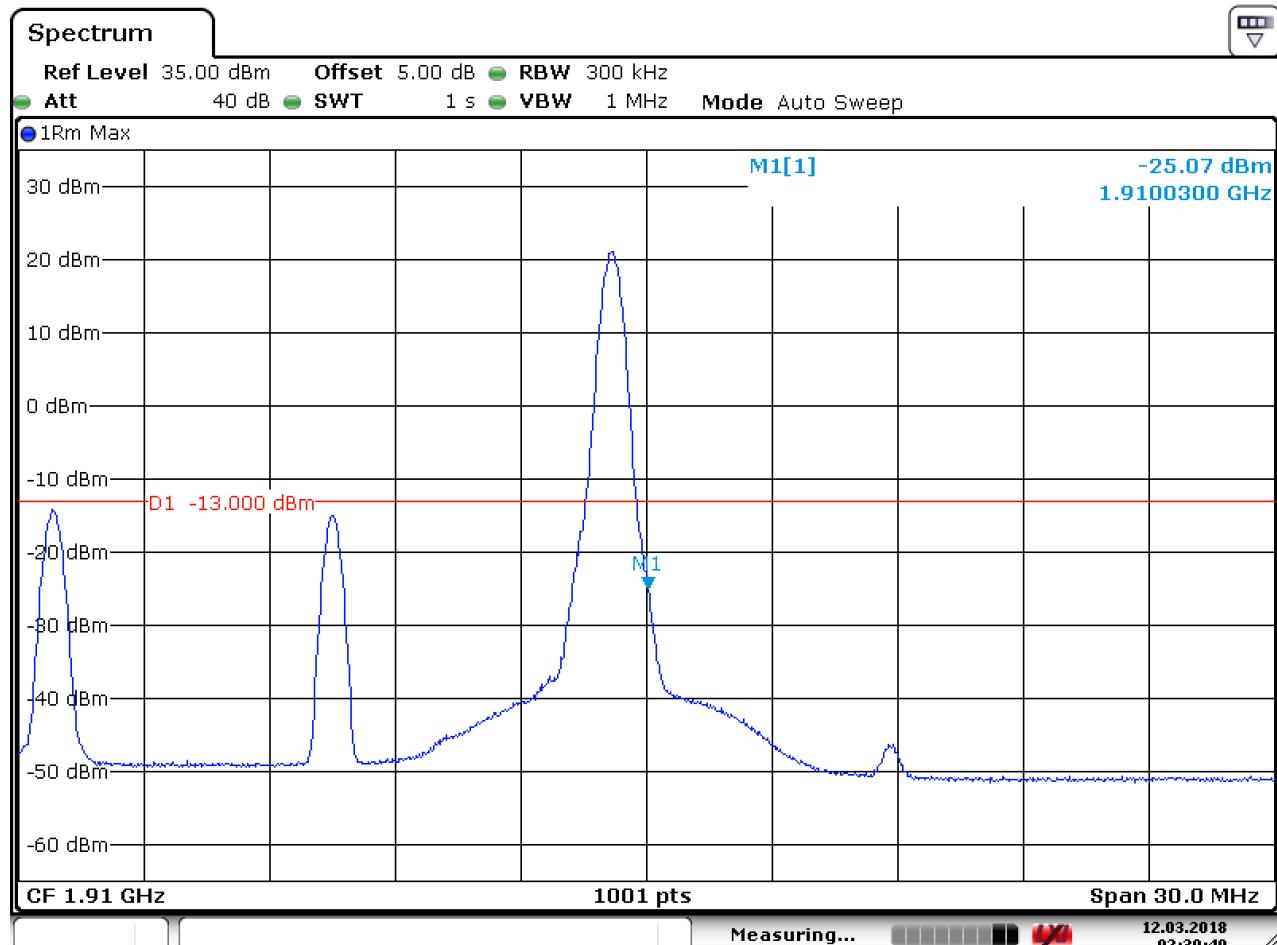


Date: 12.MAR.2018 02:28:47

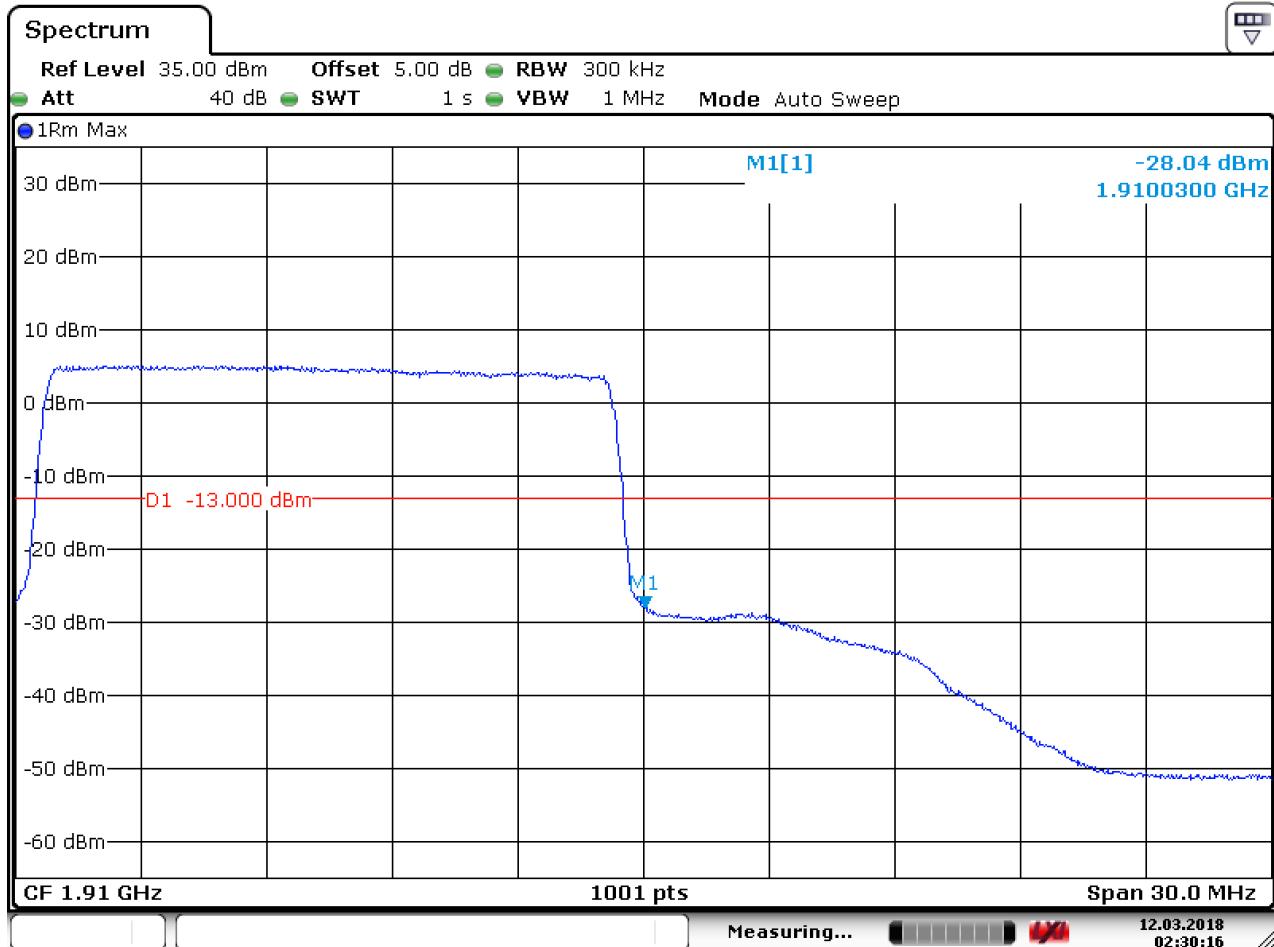
5.1.1.10.1.2 Test RB=75RB



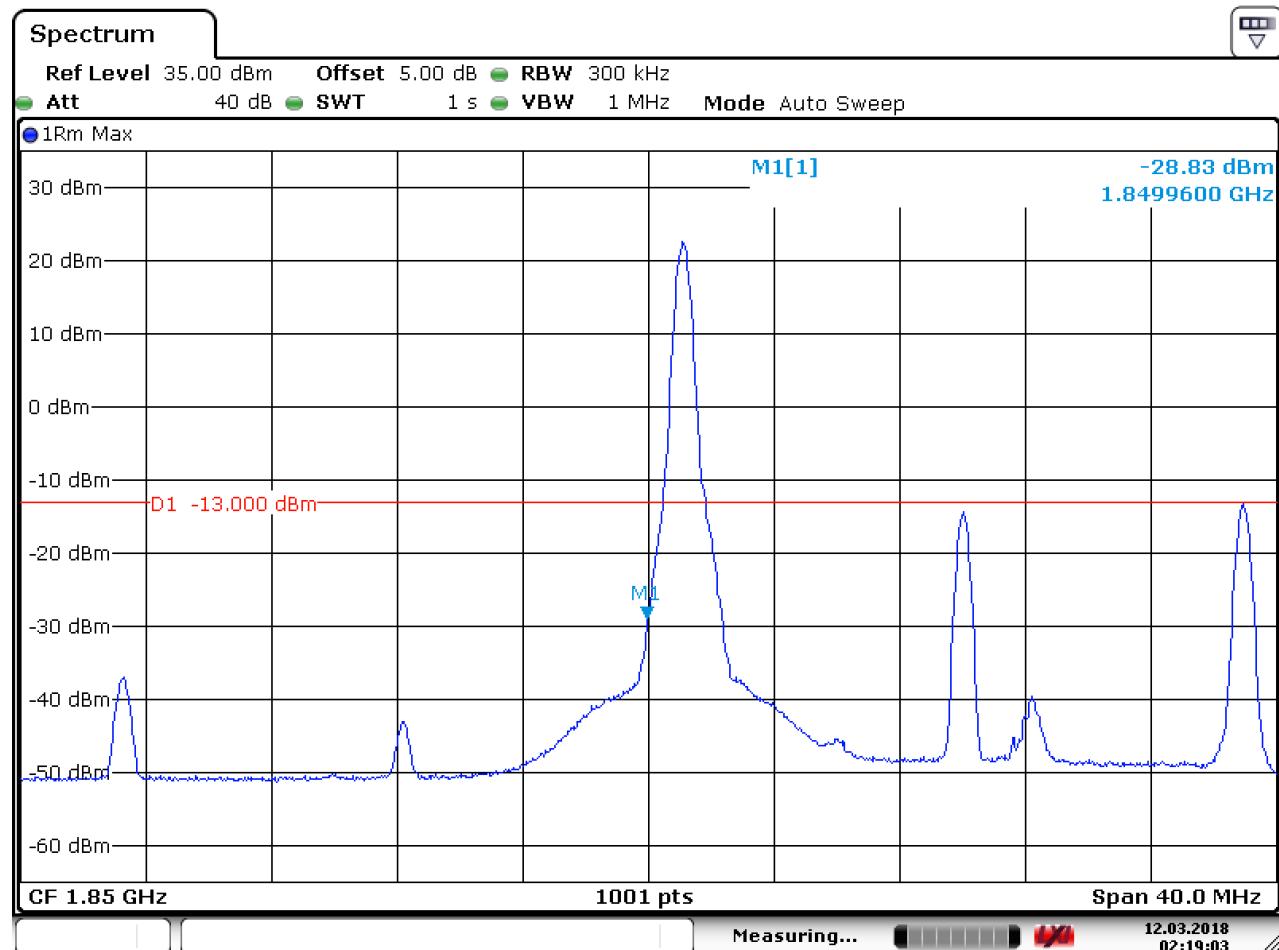
Date: 12.MAR.2018 02:29:07

5.1.1.10.2 Test Channel = HCH**5.1.1.10.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:30:41

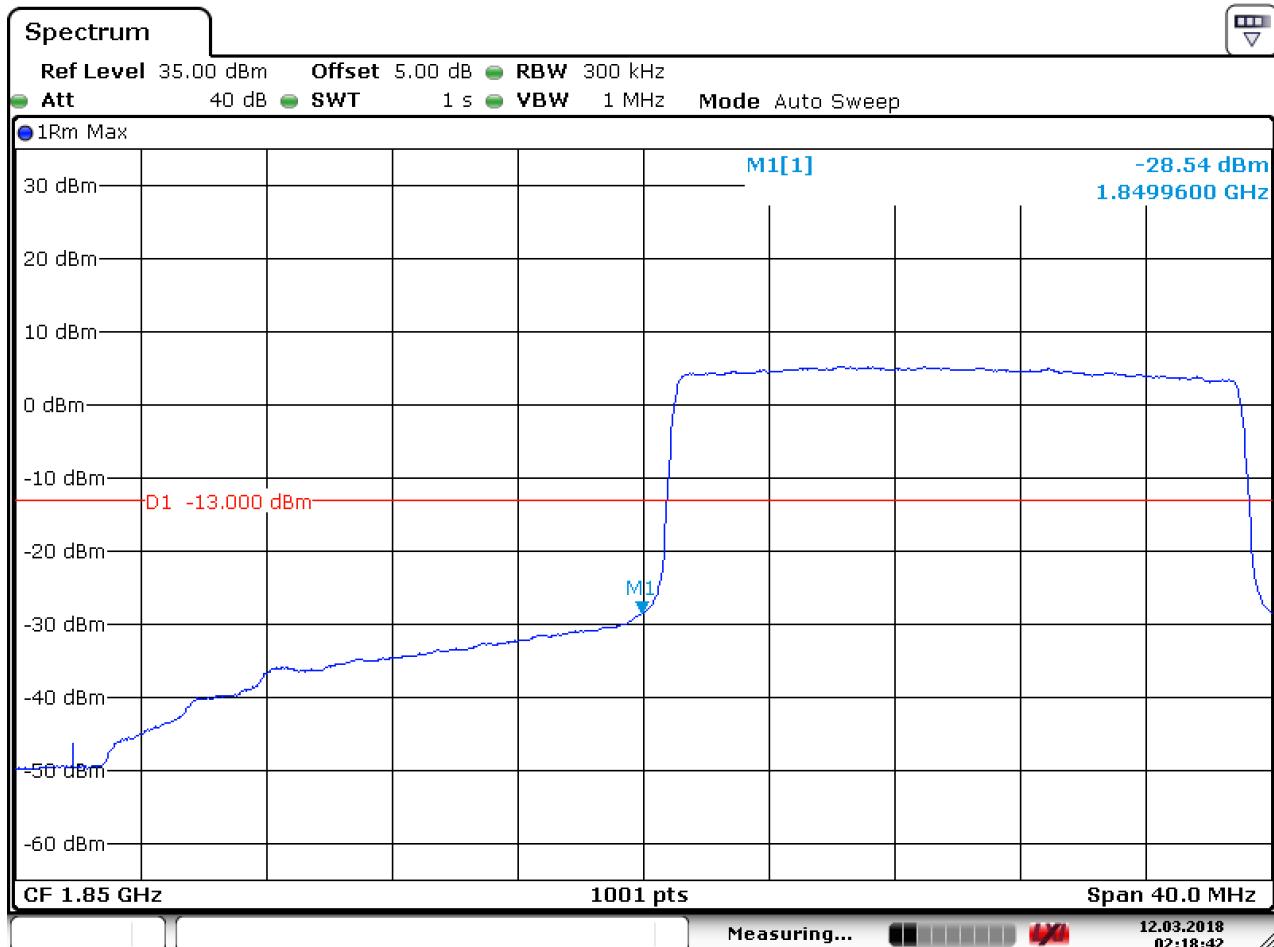
5.1.1.10.2.2 Test RB=75RB

Date: 12.MAR.2018 02:30:16

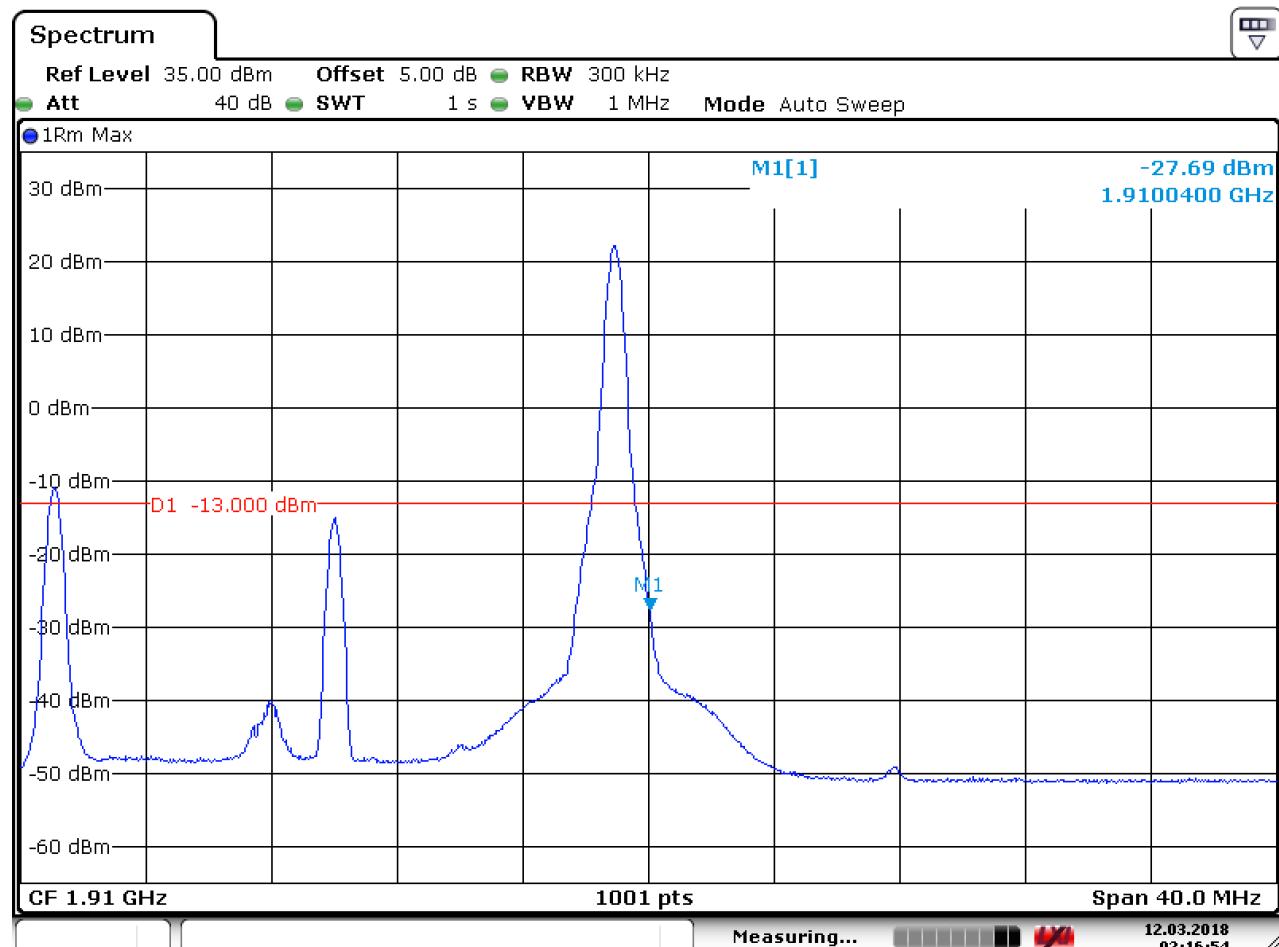
Test Mode = LTE/TM1 20MHz**5.1.1.10.3 Test Channel = LCH****5.1.1.10.3.1 Test RB=1RB**

Date: 12.MAR.2018 02:19:04

5.1.1.10.3.2 Test RB=100RB

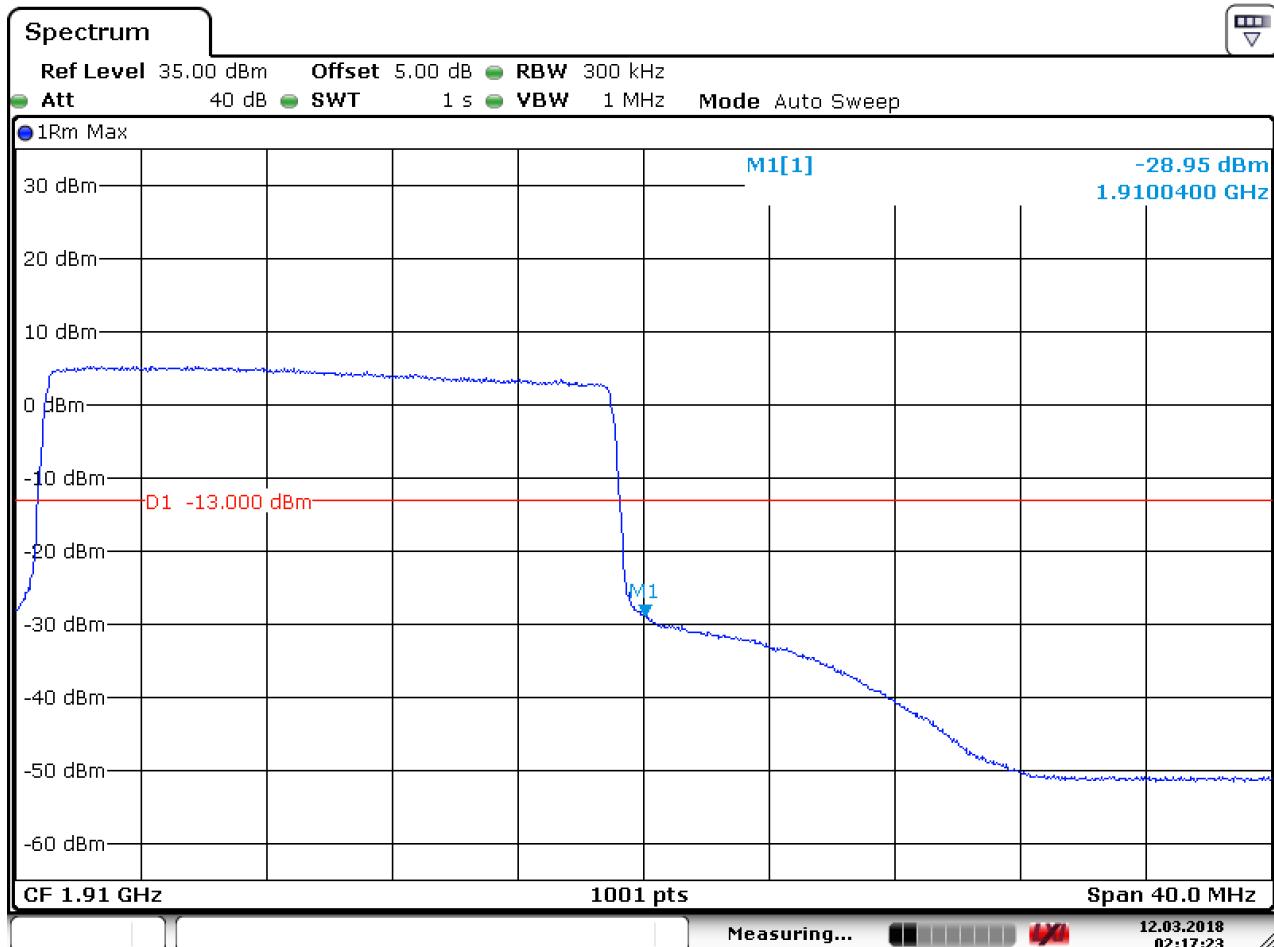


Date: 12.MAR.2018 02:18:42

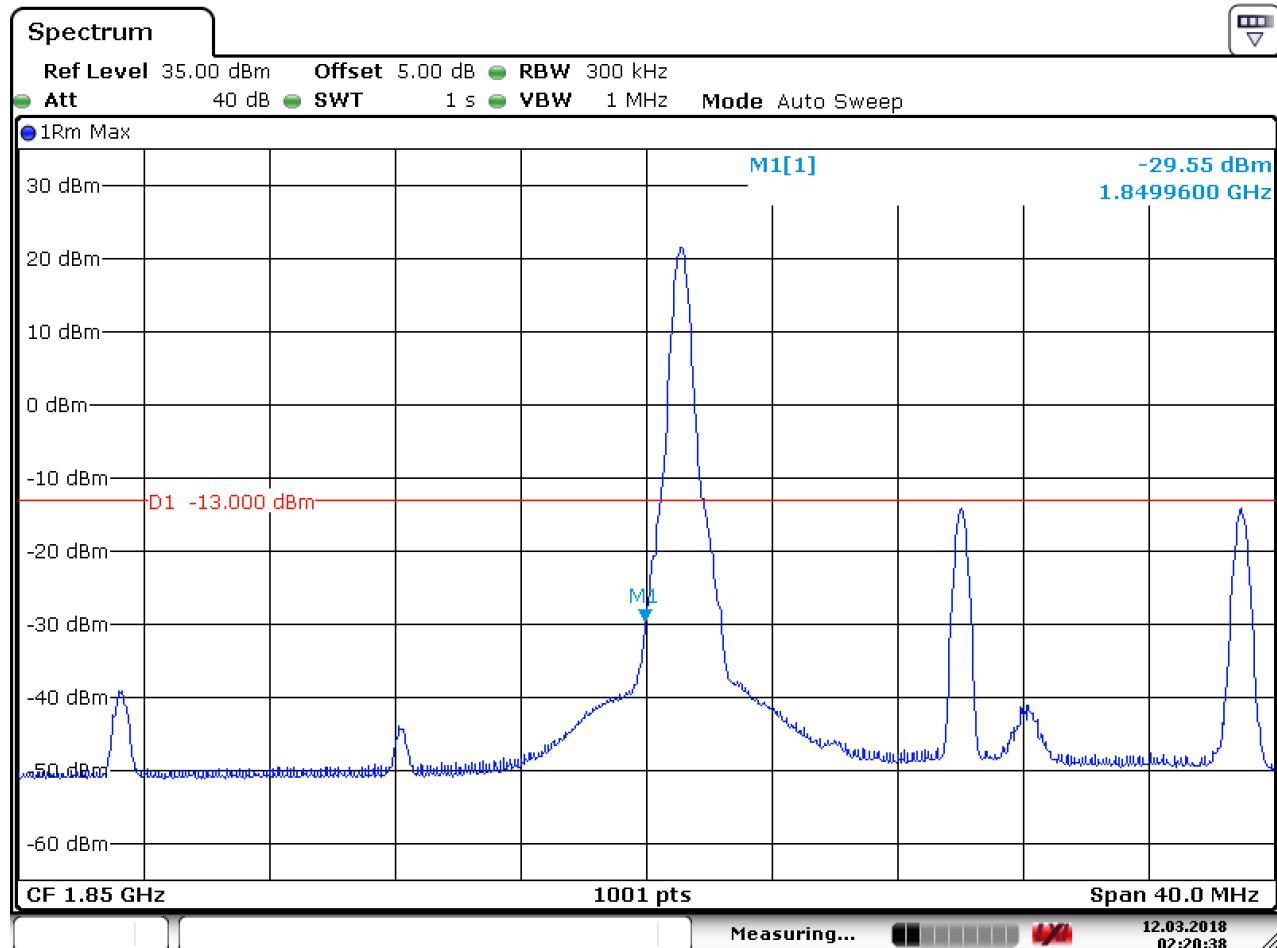
5.1.1.10.4 Test Channel = HCH**5.1.1.10.4.1 Test RB=1RB**

Date: 12.MAR.2018 02:16:55

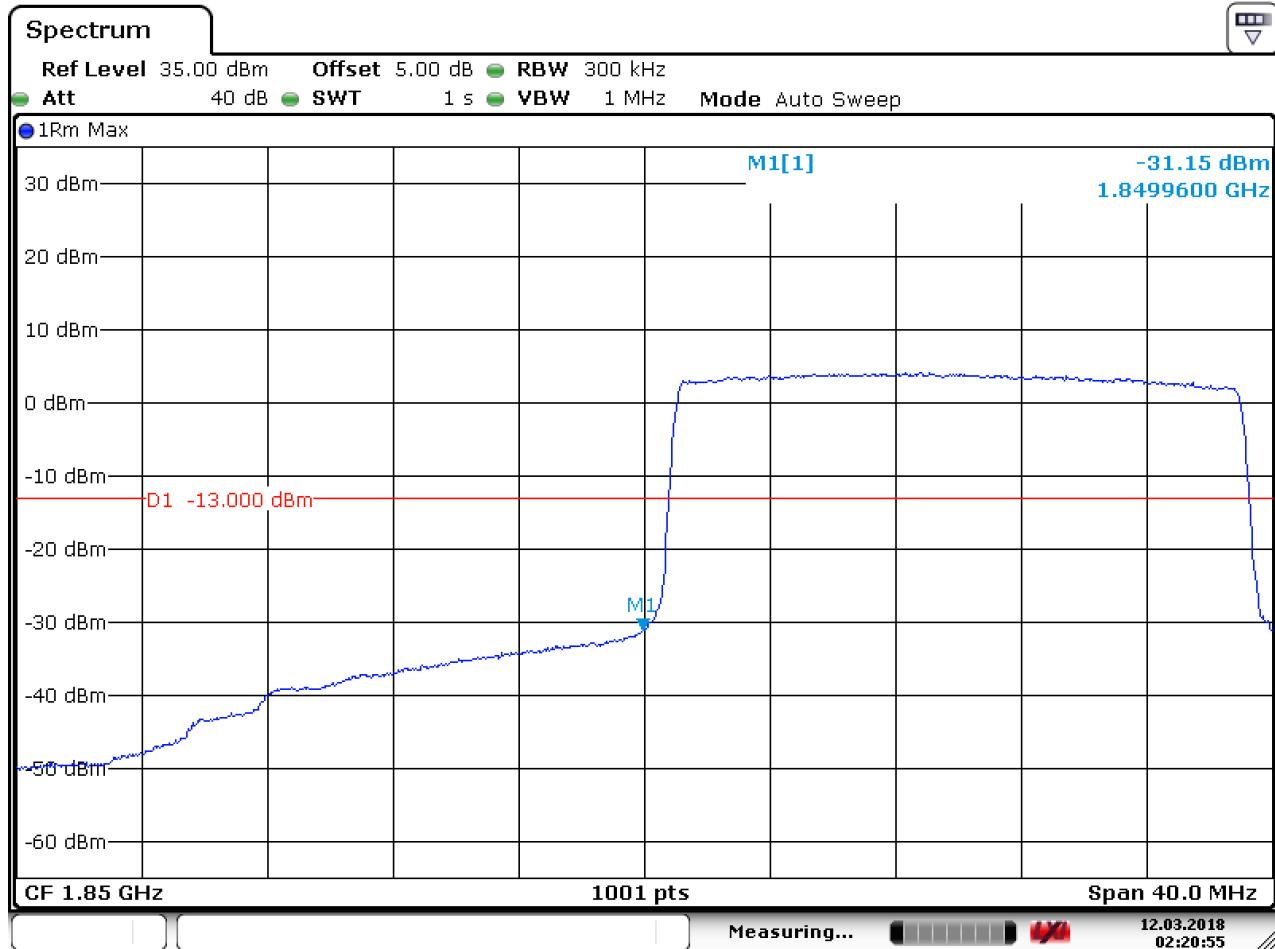
5.1.1.10.4.2 Test RB=100RB



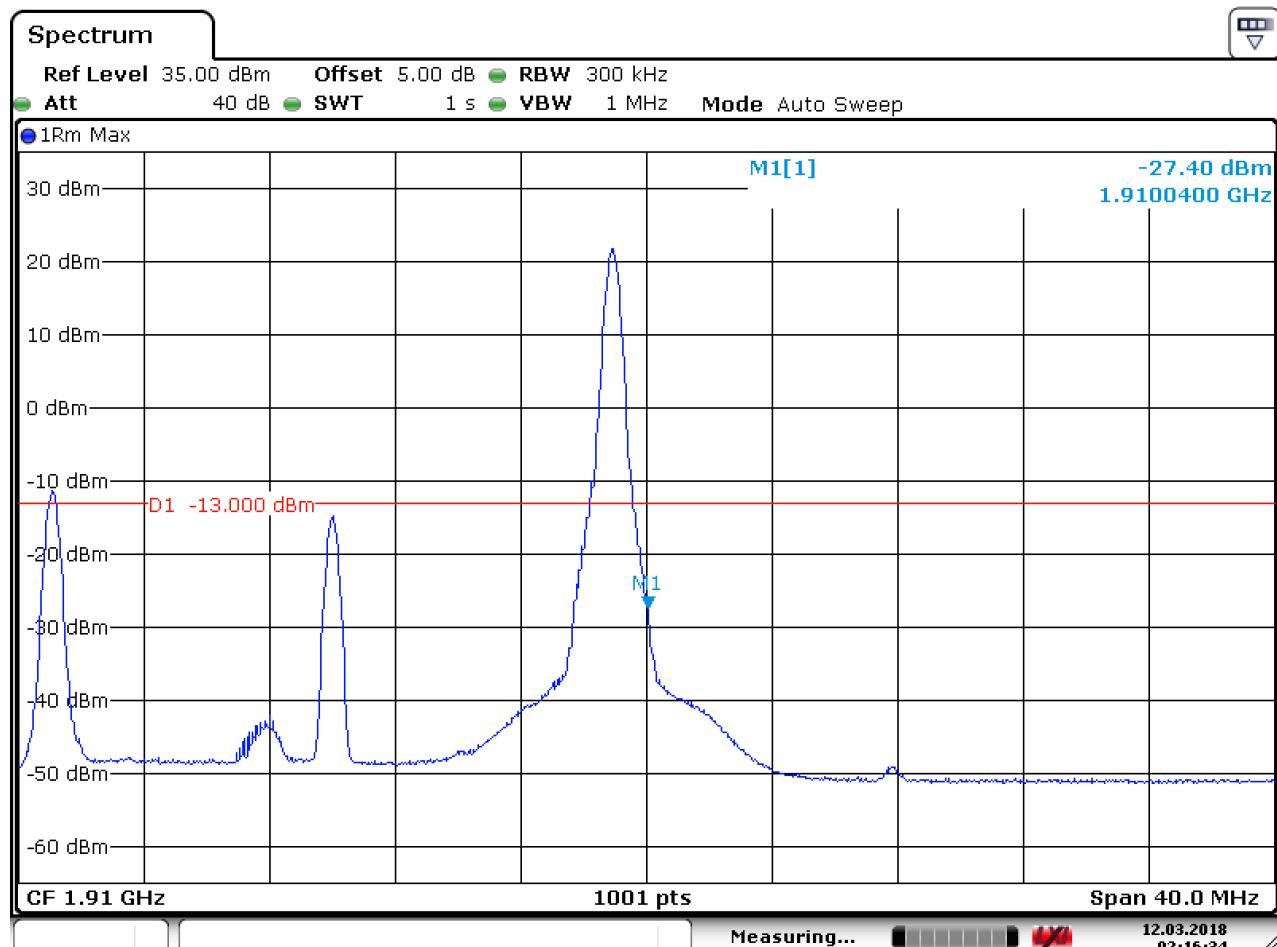
Date: 12.MAR.2018 02:17:23

5.1.1.11 Test Mode = LTE/TM2 20MHz**5.1.1.11.1 Test Channel = LCH****5.1.1.11.1.1 Test RB=1RB**

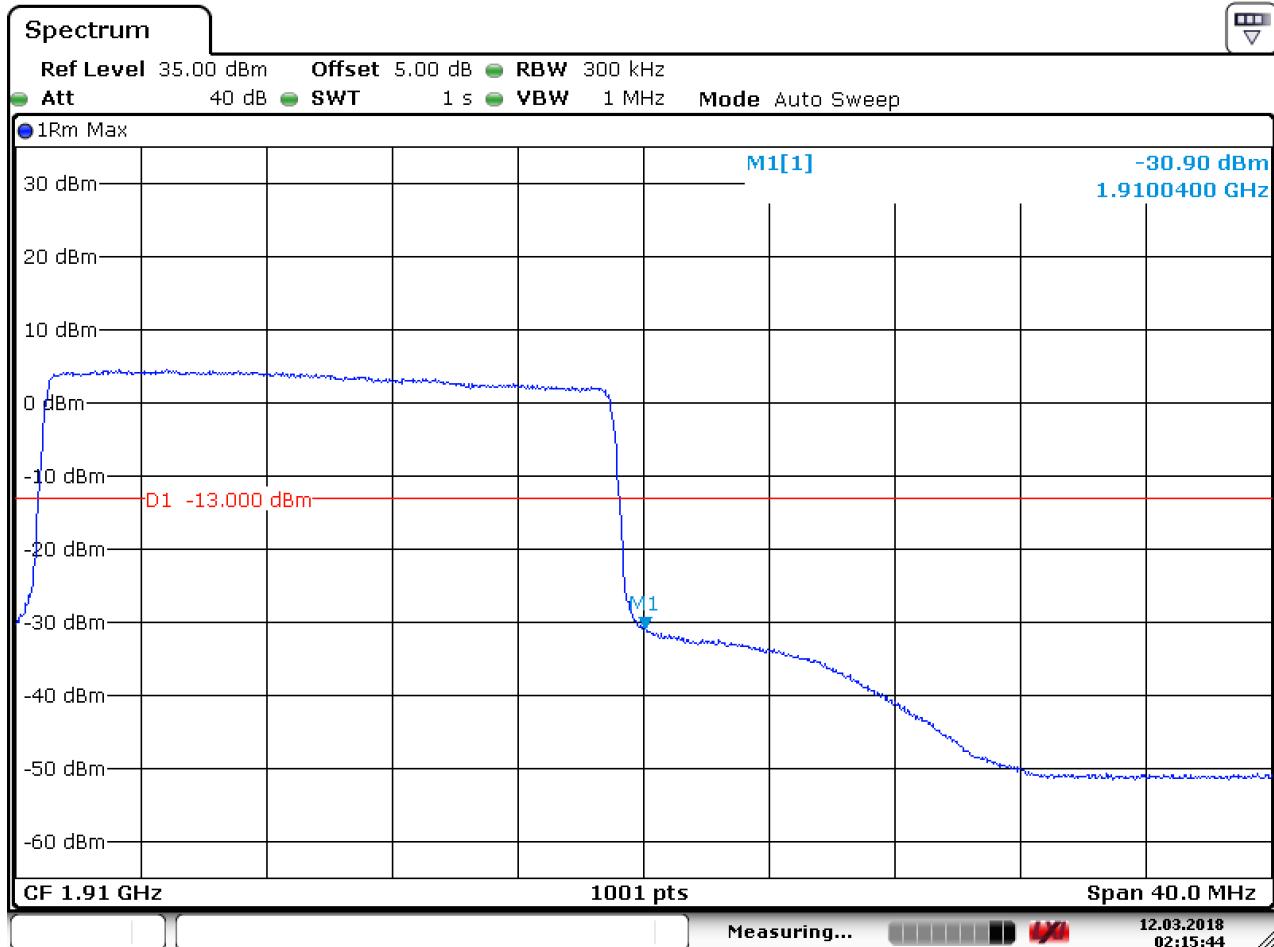
Date: 12.MAR.2018 02:20:38

5.1.1.11.1.2 Test RB=100RB

Date: 12.MAR.2018 02:20:55

5.1.1.11.2 Test Channel = HCH**5.1.1.11.2.1 Test RB=1RB**

Date: 12.MAR.2018 02:16:35

5.1.1.11.2.2 Test RB=100RB

Date: 12.MAR.2018 02:15:44

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.

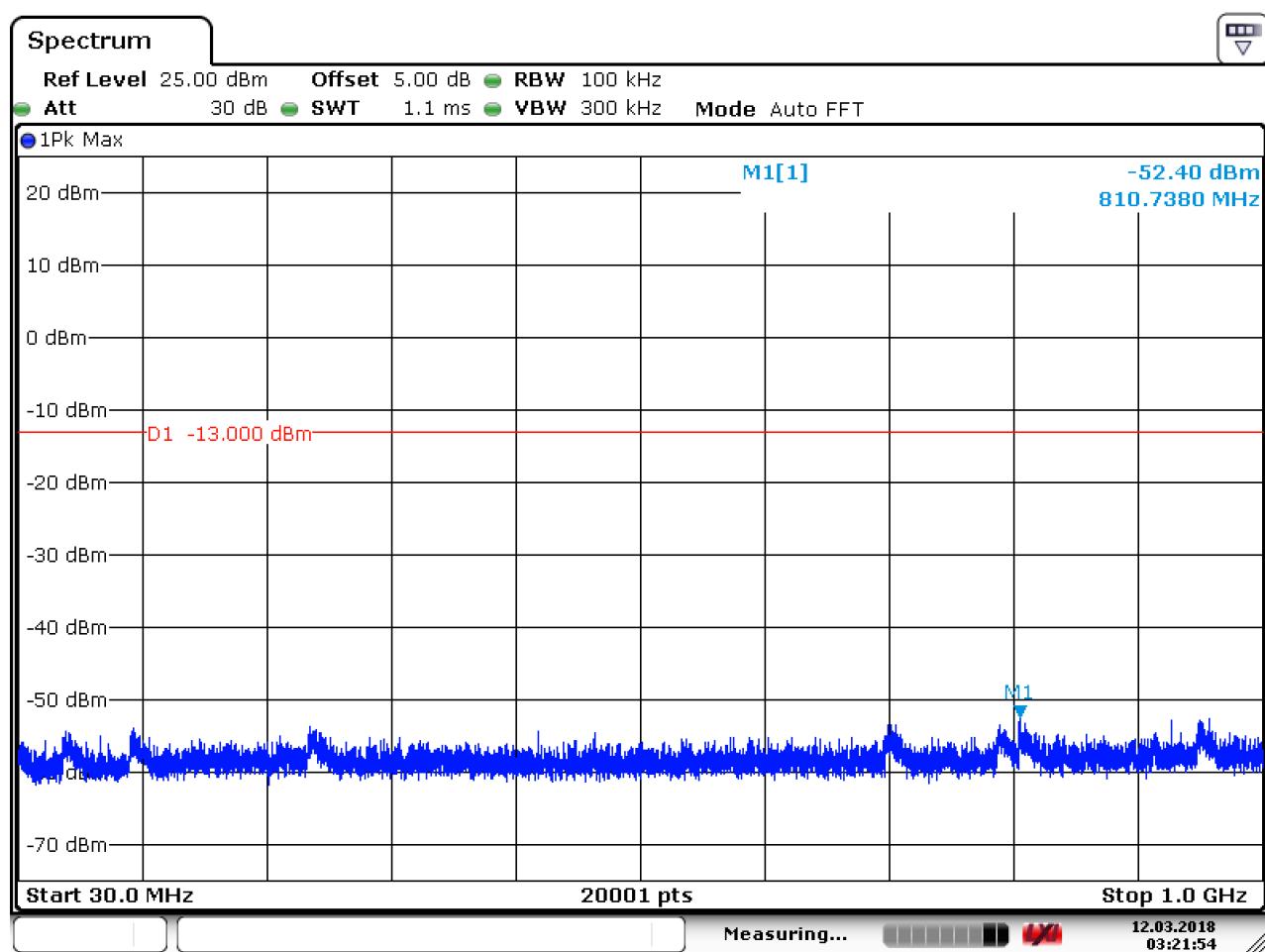
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band2

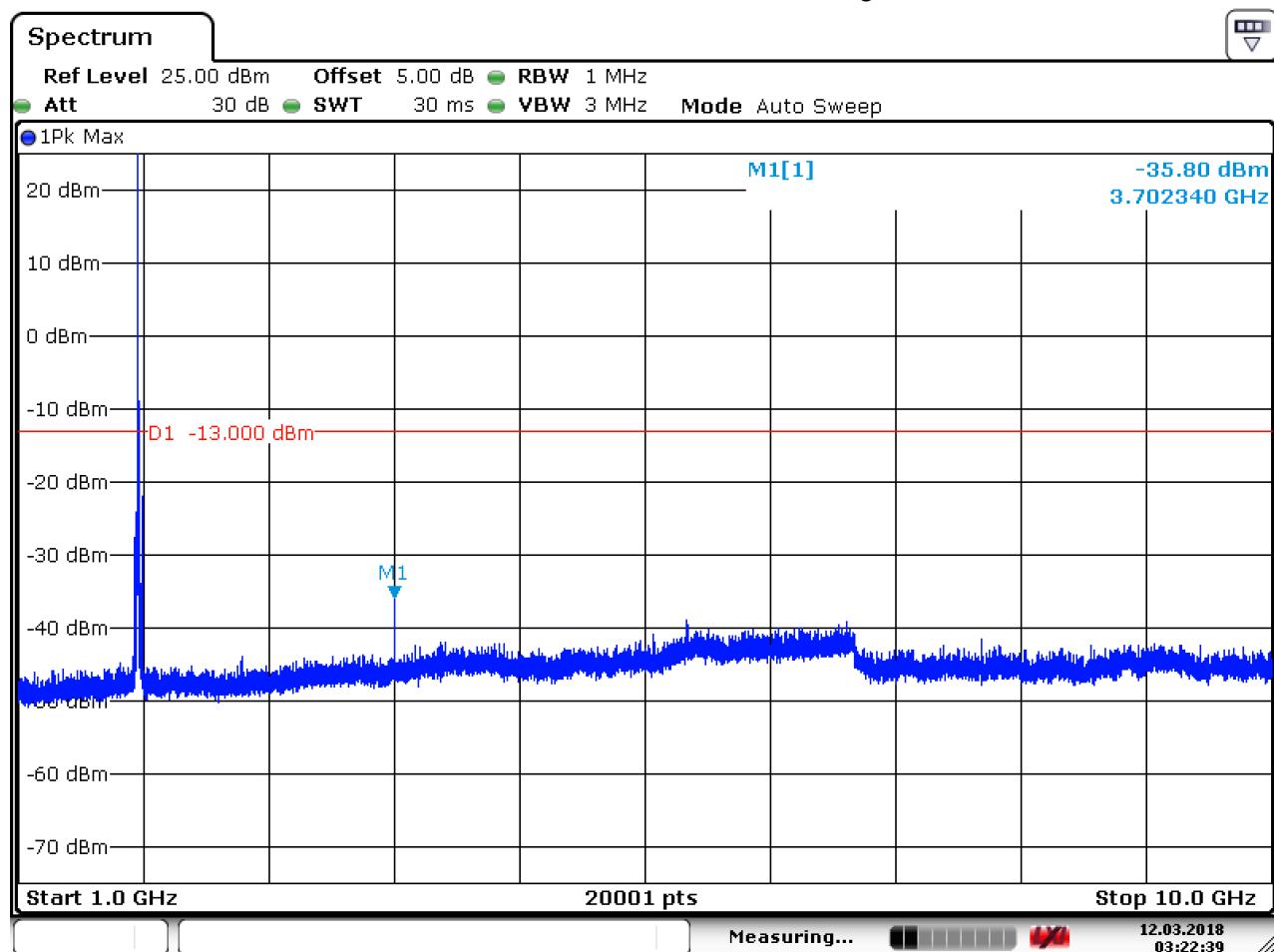
6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.1.1 Test Channel = LCH



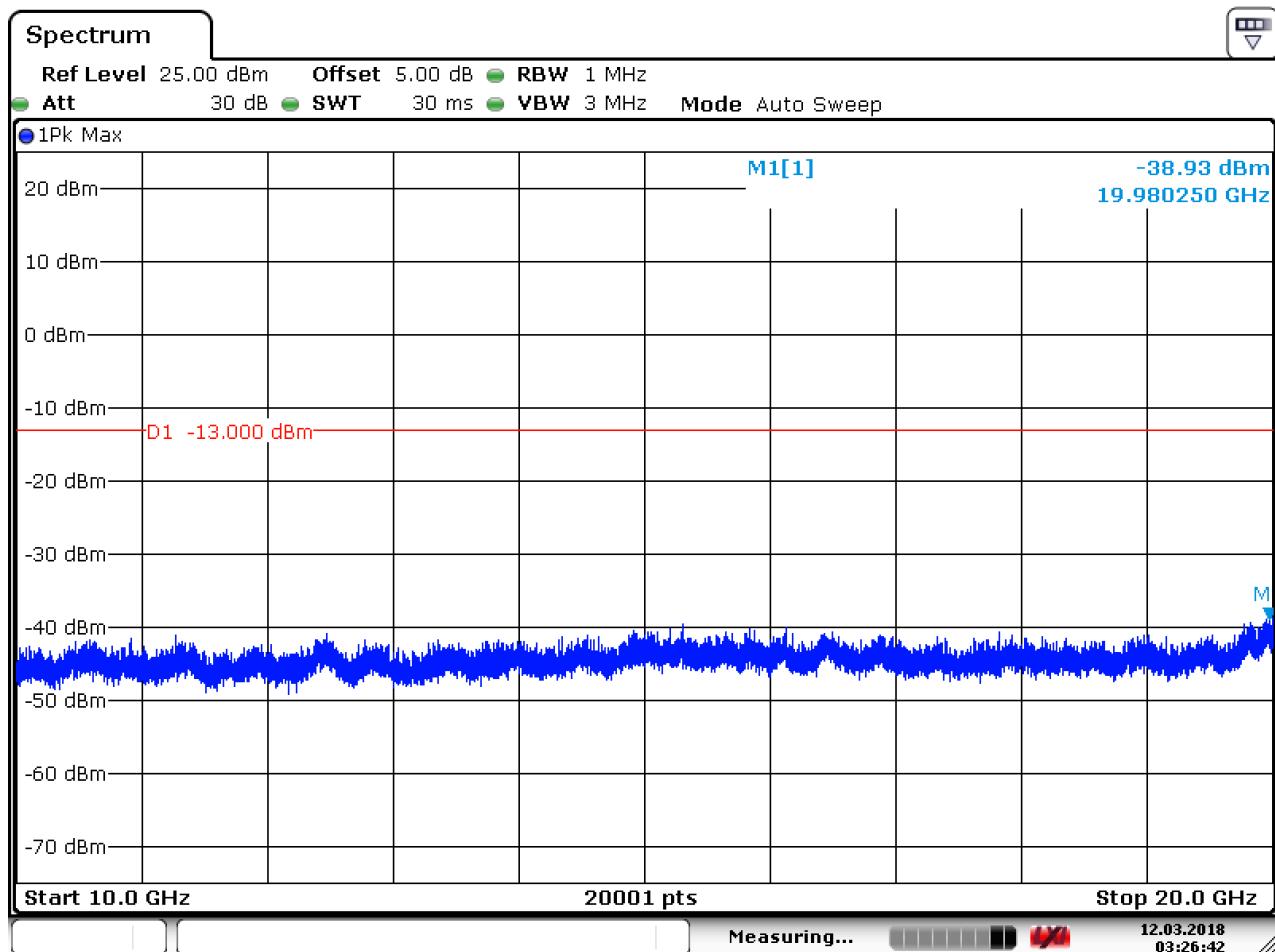
Date: 12.MAR.2018 03:21:55

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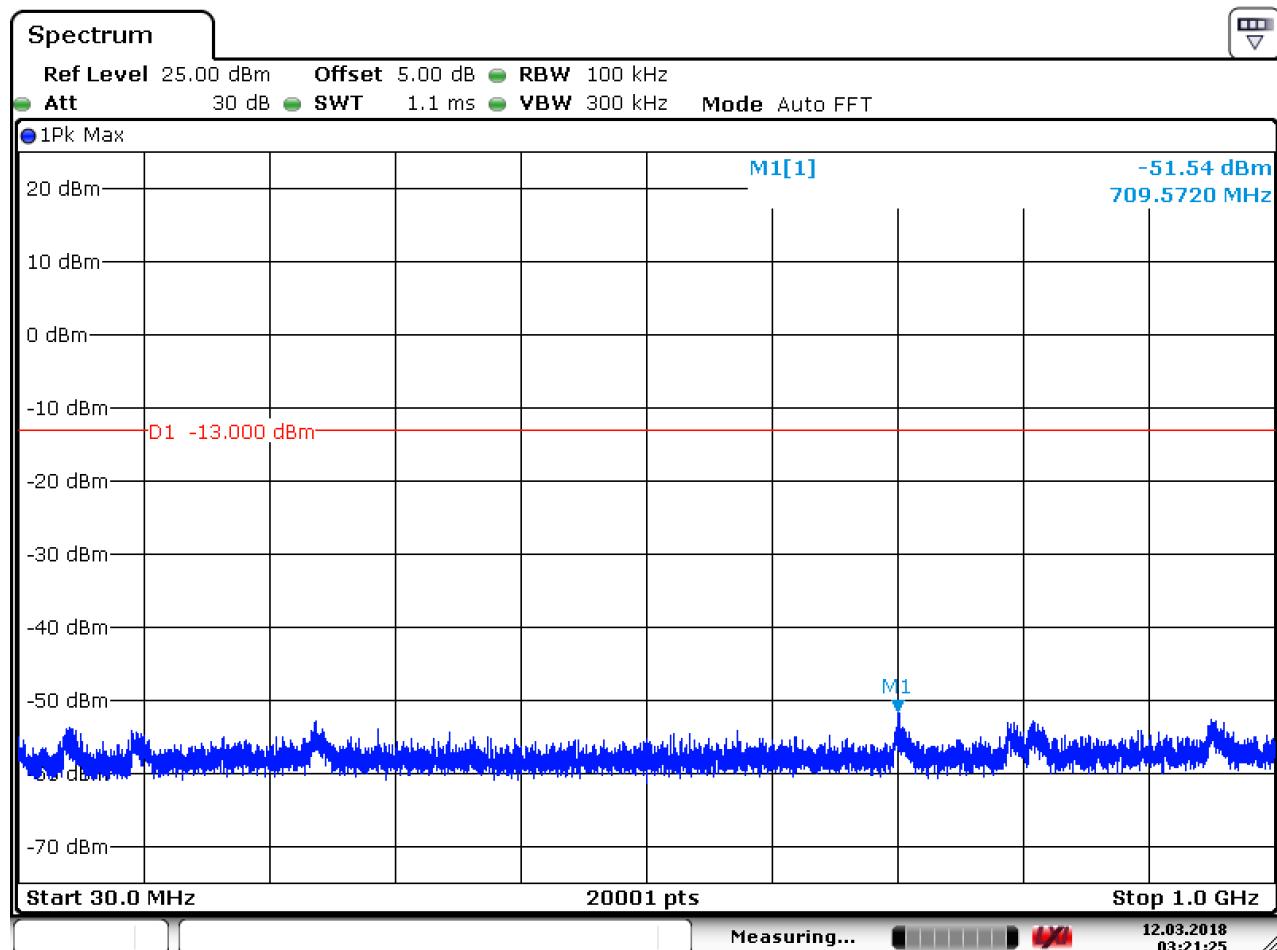


Date: 12.MAR.2018 03:22:39

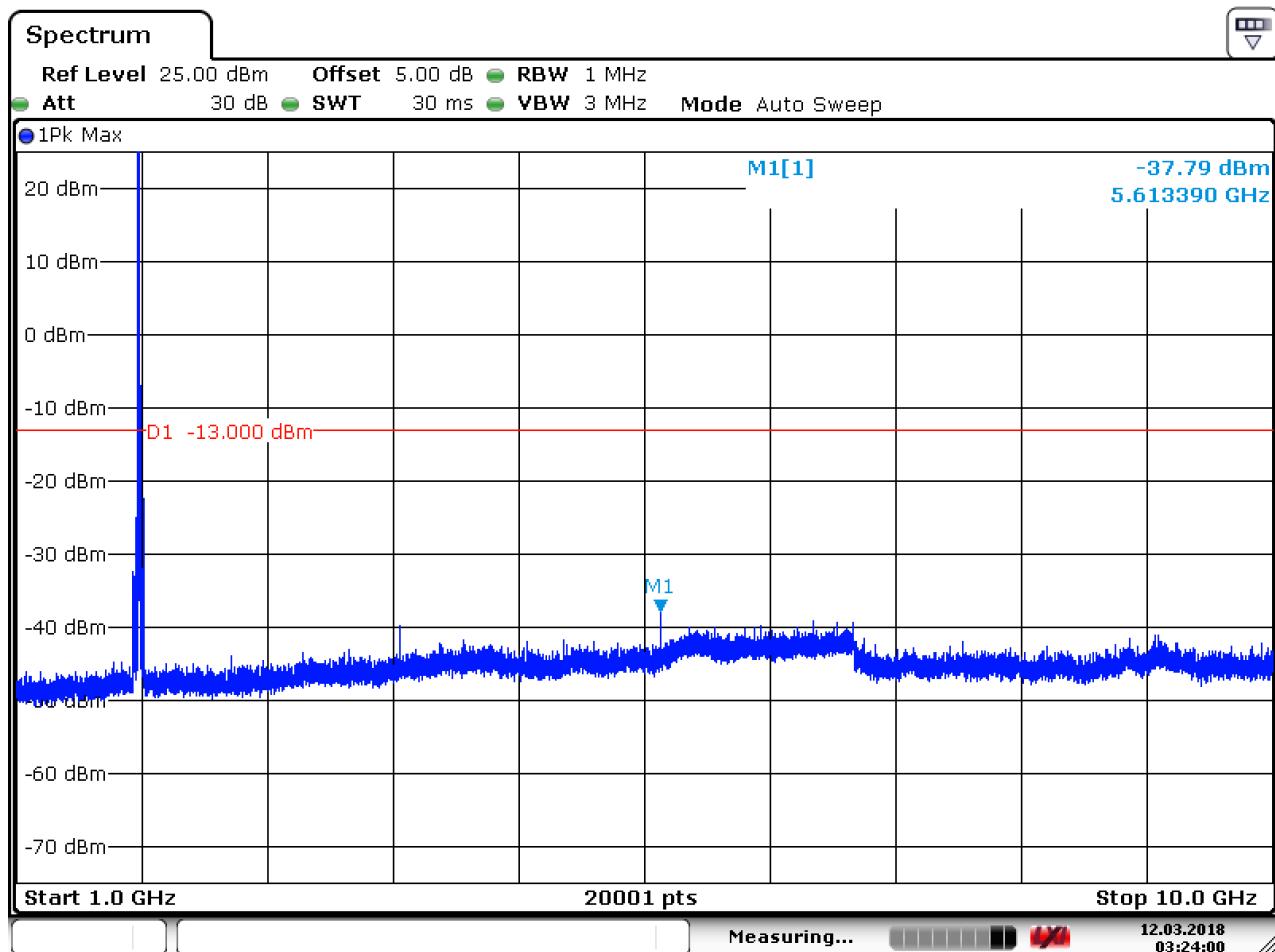
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Date: 12.MAR.2018 03:26:43

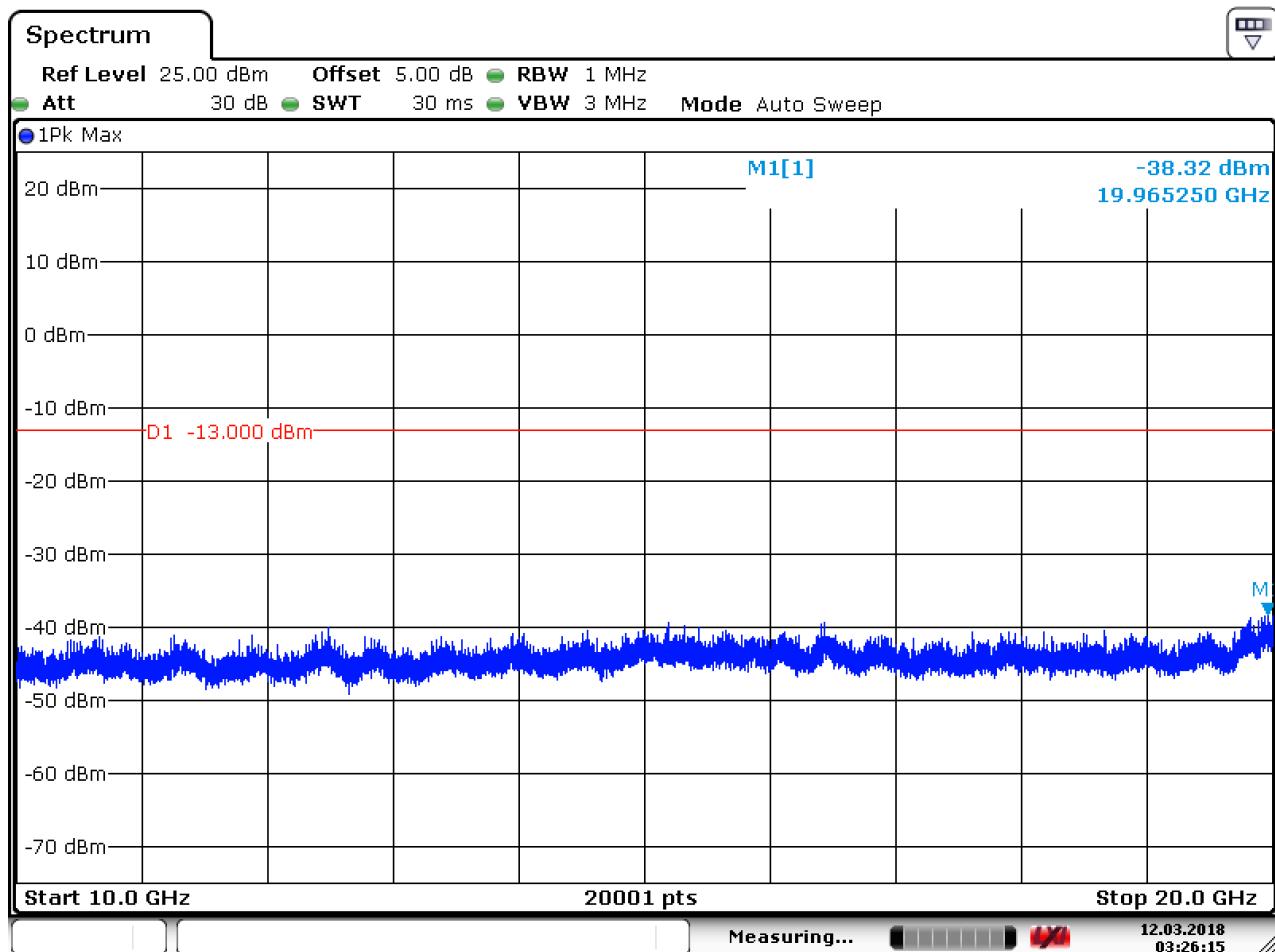
6.1.1.1.2 Test Channel = MCH

Date: 12.MAR.2018 03:21:26



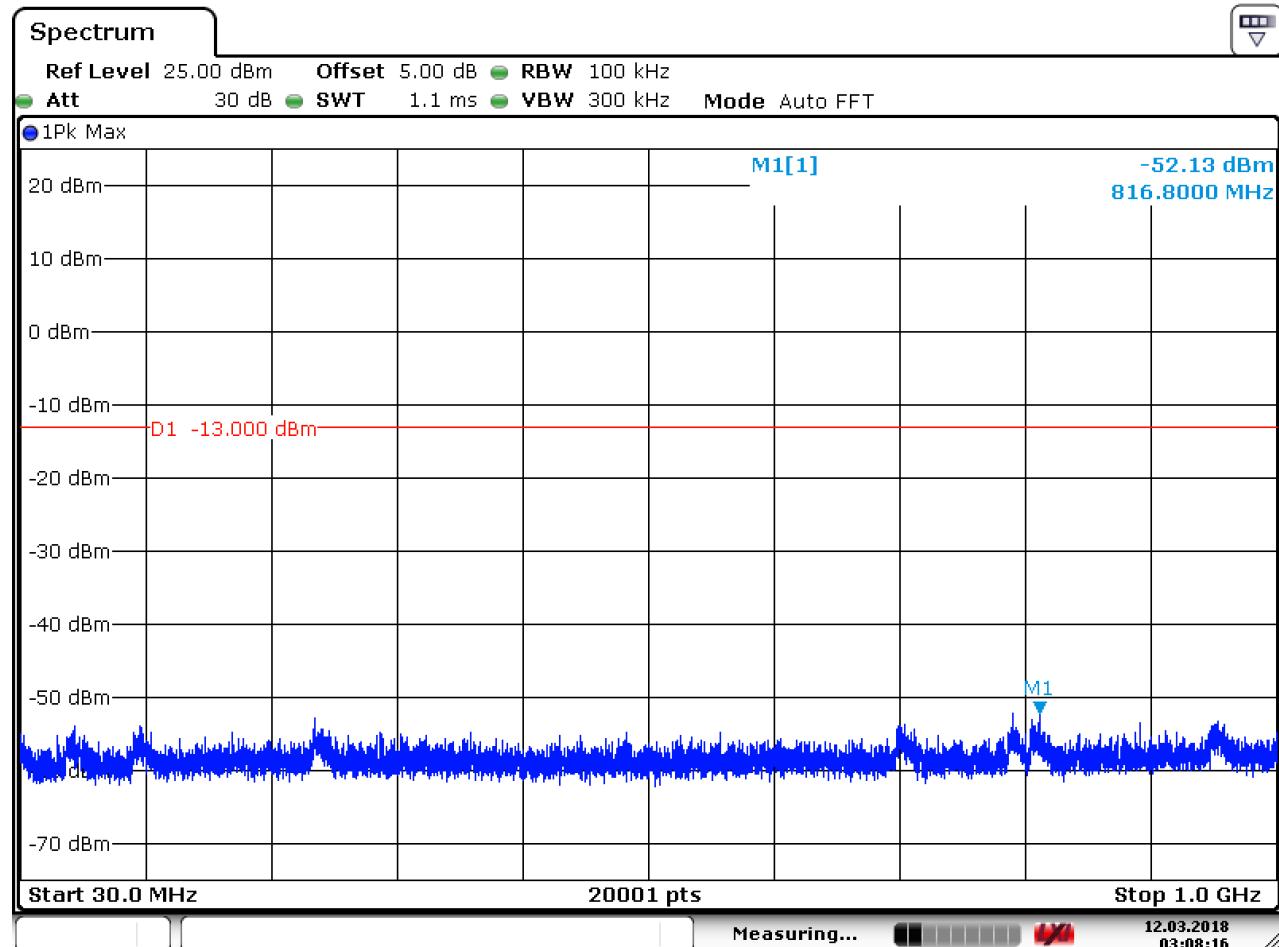
Date: 12.MAR.2018 03:24:01

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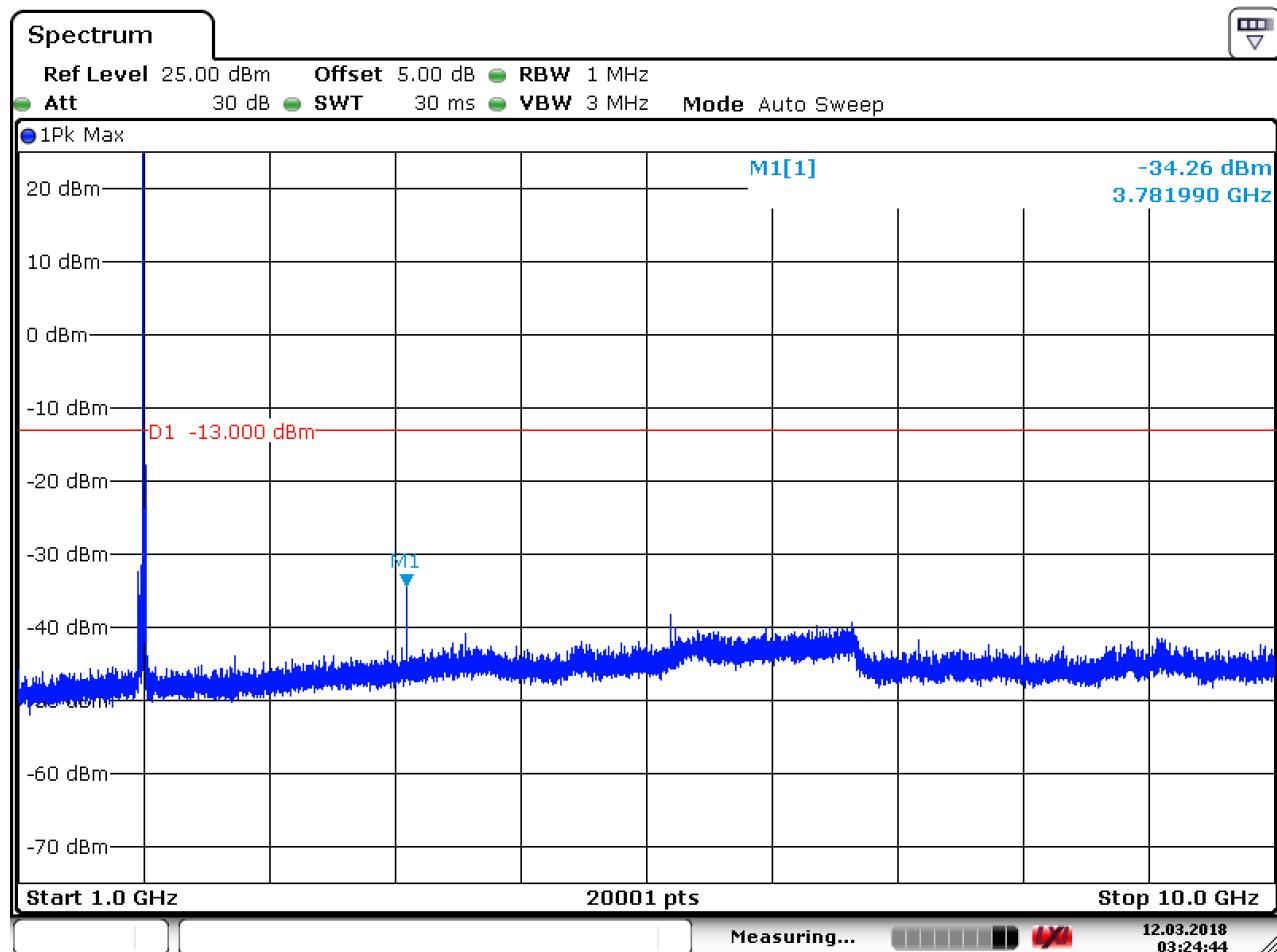


Date: 12.MAR.2018 03:26:15

6.1.1.1.3 Test Channel = HCH

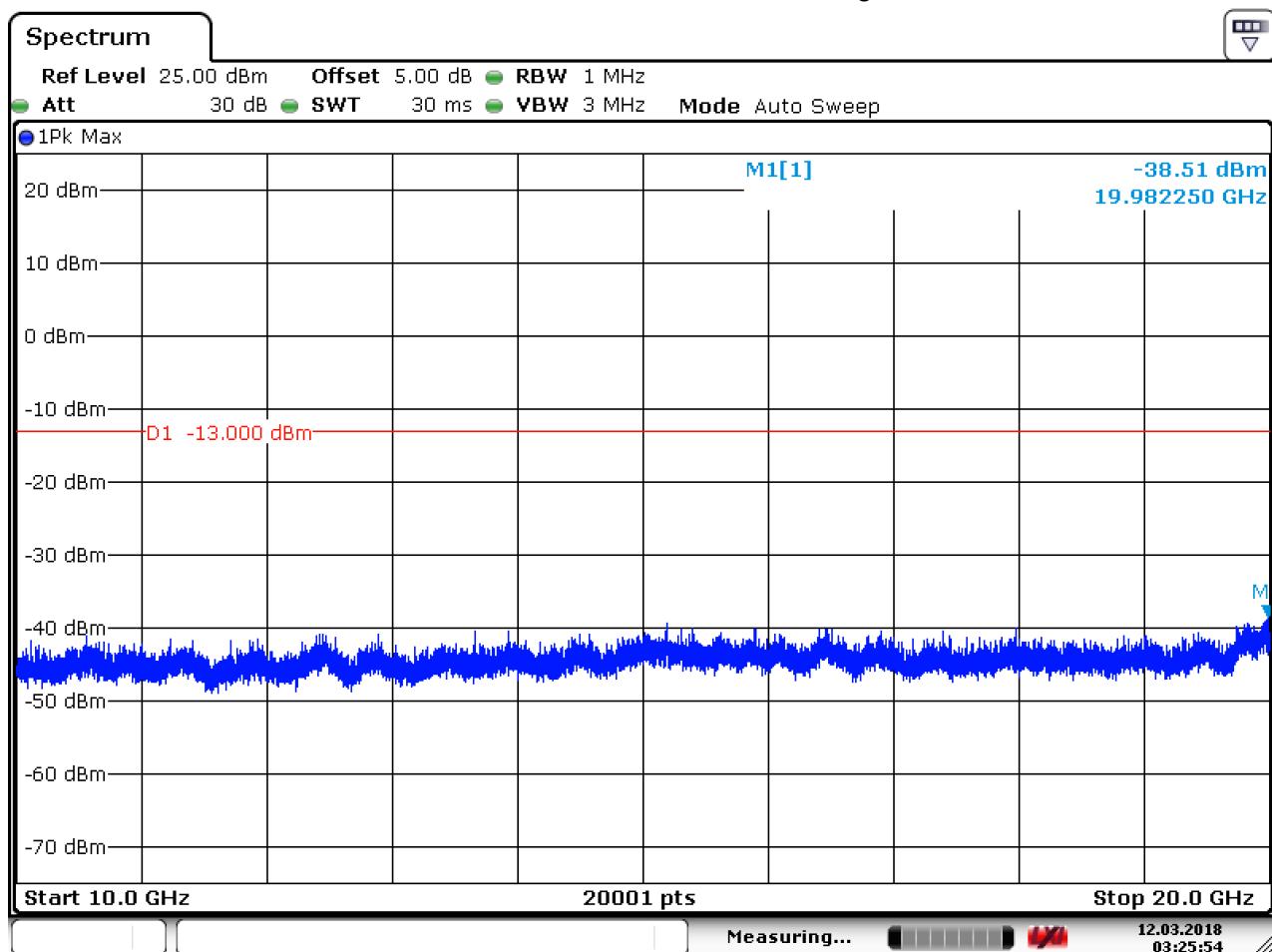


Date: 12.MAR.2018 03:08:17



Date: 12.MAR.2018 03:24:44

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Date: 12.MAR.2018 03:25:54

7 Field Strength of Spurious Radiation

Part I - Test Results

7.1 For LTE

7.1.1 Test Band = LTE band2

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.900000	-82.44	-13.00	69.44	Vertical
145.900000	-80.48	-13.00	67.48	Vertical
1502.500000	-49.93	-13.00	36.93	Vertical
2587.500000	-54.75	-13.00	41.75	Vertical
3702.000000	-61.58	-13.00	48.58	Vertical
5553.200000	-60.77	-13.00	47.77	Vertical
55.550000	-78.30	-13.00	65.30	Horizontal
104.300000	-82.96	-13.00	69.96	Horizontal
1502.500000	-52.57	-13.00	39.57	Horizontal
3702.000000	-67.16	-13.00	54.16	Horizontal
6176.875000	-65.39	-13.00	52.39	Horizontal
9236.100000	-63.84	-13.00	50.84	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.900000	-82.01	-13.00	69.01	Vertical
314.900000	-76.36	-13.00	63.36	Vertical
1522.500000	-51.30	-13.00	38.30	Vertical
3741.975000	-60.59	-13.00	47.59	Vertical
5613.000000	-54.94	-13.00	41.94	Vertical
7950.400000	-64.03	-13.00	51.03	Vertical
62.700000	-78.21	-13.00	65.21	Horizontal
104.300000	-83.41	-13.00	70.41	Horizontal
1523.000000	-53.23	-13.00	40.23	Horizontal
3741.975000	-67.39	-13.00	54.39	Horizontal
5613.325000	-61.87	-13.00	48.87	Horizontal
9236.425000	-63.85	-13.00	50.85	Horizontal



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7.1.1.1.3 Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.300000	-82.10	-13.00	69.10	Vertical
422.450000	-75.32	-13.00	62.32	Vertical
1543.000000	-51.31	-13.00	38.31	Vertical
3781.950000	-63.25	-13.00	50.25	Vertical
5673.125000	-58.65	-13.00	45.65	Vertical
9211.075000	-63.86	-13.00	50.86	Vertical
62.900000	-78.02	-13.00	65.02	Horizontal
104.300000	-82.51	-13.00	69.51	Horizontal
1542.500000	-55.74	-13.00	42.74	Horizontal
3781.950000	-66.53	-13.00	53.53	Horizontal
5673.125000	-63.30	-13.00	50.30	Horizontal
9242.275000	-63.85	-13.00	50.85	Horizontal

NOTE:

- 1) 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.
- 2) We have tested all modulation, but only the worst case data presented in this report.

8 Frequency Stability

8.1 Frequency Error VS. Voltage

Part I - Test Results

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM1 20MHz	LCH	TN	VL	-9.86	-0.005245	PASS
				VN	-10.84	-0.005766	PASS
				VH	-8.37	-0.004452	PASS
		MCH	TN	VL	-12.00	-0.006460	PASS
				VN	-9.43	-0.005077	PASS
				VH	-9.60	-0.005168	PASS
		HCH	TN	VL	-10.43	-0.005548	PASS
				VN	-7.88	-0.004191	PASS
				VH	-8.23	-0.004378	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-9.53	-0.005009	PASS
				VN	-8.68	-0.004562	PASS
				VH	-11.49	-0.006039	PASS
		MCH	TN	VL	-7.77	-0.004183	PASS
				VN	-9.87	-0.005314	PASS
				VH	-8.74	-0.004705	PASS
		HCH	TN	VL	-12.43	-0.006612	PASS
				VN	-9.48	-0.005043	PASS
				VH	-9.06	-0.004819	PASS



8.2 Frequency Error VS. Temperature

Part I - Test Results

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM1 20MHz	LCH	VN	-30	-6.49	-0.003505	PASS
				-20	-7.00	-0.003781	PASS
				-10	-8.88	-0.004796	PASS
				0	-7.78	-0.004138	PASS
				10	-9.04	-0.004809	PASS
				20	-8.14	-0.004330	PASS
				30	-7.48	-0.003979	PASS
				40	-9.54	-0.005074	PASS
				50	-6.54	-0.003427	PASS
		MCH	VN	-30	6.97	0.003652	PASS
				-20	7.24	0.003794	PASS
				-10	-7.81	-0.004092	PASS
				0	-5.97	-0.003128	PASS
				10	-7.47	-0.004035	PASS
				20	-8.37	-0.004521	PASS
				30	-9.48	-0.005043	PASS
				40	-7.05	-0.003750	PASS
				50	-7.81	-0.004154	PASS
		HCH	VN	-30	-6.88	-0.003660	PASS
				-20	-8.18	-0.004351	PASS
				-10	-6.17	-0.003233	PASS
				0	-4.86	-0.002547	PASS
				10	-6.97	-0.003652	PASS
				20	-6.94	-0.003636	PASS
				30	-8.37	-0.004521	PASS
				40	-5.43	-0.00286	PASS
				50	-8.90	-0.00468	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM2 20MHz	LCH	VN	-30	-0.50	-0.00027	PASS
				-20	-2.45	-0.00132	PASS
				-10	3.38	0.00182	PASS
				0	2.64	0.00142	PASS
				10	1.60	0.00086	PASS
				20	-0.23	-0.00012	PASS
				30	-0.44	-0.00024	PASS
				40	5.34	0.00287	PASS
				50	0.79	0.00042	PASS
		MCH	VN	-30	-3.80	-0.00202	PASS
				-20	6.82	0.003667	PASS
				-10	-11.13	-0.005984	PASS
				0	7.21	0.003876	PASS
				10	6.55	0.003522	PASS
				20	-6.59	-0.003543	PASS
				30	-8.96	-0.004766	PASS
				40	-9.73	-0.005176	PASS
				50	-8.68	-0.004617	PASS
		HCH	VN	-30	-13.86	-0.007372	PASS
				-20	-8.61	-0.004580	PASS
				-10	-5.94	-0.003194	PASS
				0	8.37	0.004500	PASS
				10	5.71	0.003070	PASS
				20	-5.81	-0.003124	PASS
				30	6.22	0.003344	PASS
				40	6.82	0.003667	PASS
				50	-11.13	-0.005984	PASS

The End