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Appendix B

E-UTRA Band 2



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 2

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 2 Tost Tost Tost Measured FIRP limit									
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict	
				RB1#0	22.99	20.19	33.00	PASS	
				RB1#2	23.14	20.34	33.00	PASS	
				RB1#5	22.93	20.13	33.00	PASS	
			LCH	RB3#0	23.08	20.28	33.00	PASS	
				RB3#2	22.99	20.19	33.00	PASS	
				RB3#3	23.05	20.25	33.00	PASS	
				RB6#0	22.03	19.23	33.00	PASS	
				RB1#0	22.94	20.14	33.00	PASS	
				RB1#2	23.1	20.3	33.00	PASS	
				RB1#5	23.08	20.28	33.00	PASS	
BAND2	LTE/TM1	1.4M	MCH	RB3#0	23.08	20.28	33.00	PASS	
				RB3#2	23.04	20.24	33.00	PASS	
				RB3#3	23.11	20.31	33.00	PASS	
				RB6#0	22.07	19.27	33.00	PASS	
				RB1#0	23.06	20.26	33.00	PASS	
				RB1#2	23.33	20.53	33.00	PASS	
				RB1#5	23.07	20.27	33.00	PASS	
			НСН	RB3#0	23.08	20.28	33.00	PASS	
				RB3#2	23.22	20.42	33.00	PASS	
				RB3#3	23.17	20.37	33.00	PASS	
				RB6#0	22.29	19.49	33.00	PASS	



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.24	19.44	33.00	PASS
				RB1#2	22.48	19.68	33.00	PASS
				RB1#5	22.01	19.21	33.00	PASS
			LCH	RB3#0	21.82	19.02	33.00	PASS
				RB3#2	22.31	19.51	33.00	PASS
				RB3#3	21.89	19.09	33.00	PASS
				RB6#0	21.37	18.57	33.00	PASS
				RB1#0	22.13	19.33	33.00	PASS
				RB1#2	22.23	19.43	33.00	PASS
				RB1#5	22.11	19.31	33.00	PASS
BAND2	LTE/TM2	1.4M	MCH	RB3#0	22.05	19.25	33.00	PASS
				RB3#2	22.1	19.3	33.00	PASS
				RB3#3	21.99	19.19	33.00	PASS
				RB6#0	21.05	18.25	33.00	PASS
				RB1#0	22.1	19.3	33.00	PASS
				RB1#2	22.58	19.78	33.00	PASS
				RB1#5	22.1	19.3	33.00	PASS
			НСН	RB3#0	22.12	19.32	33.00	PASS
				RB3#2	22.1	19.3	33.00	PASS
				RB3#3	22.06	19.26	33.00	PASS
				RB6#0	21.13	18.33	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	23.02	20.22	33.00	PASS
				RB1#7	23.2	20.4	33.00	PASS
				RB1#14	23.09	20.29	33.00	PASS
			LCH	RB8#0	22	19.2	33.00	PASS
				RB8#4	22.12	19.32	33.00	PASS
				RB8#7	22.1	19.3	33.00	PASS
				RB15#0	22.03	19.23	33.00	PASS
				RB1#0	22.99	20.19	33.00	PASS
				RB1#7	23.26	20.46	33.00	PASS
				RB1#14	22.99	20.19	33.00	PASS
BAND2	LTE/TM1	ЗМ	МСН	RB8#0	22.1	19.3	33.00	PASS
				RB8#4	22.03	19.23	33.00	PASS
				RB8#7	22.04	19.24	33.00	PASS
				RB15#0	22.12	19.32	33.00	PASS
				RB1#0	23.2	20.4	33.00	PASS
				RB1#7	23.33	20.53	33.00	PASS
				RB1#14	23.19	20.39	33.00	PASS
			НСН	RB8#0	22.07	19.27	33.00	PASS
				RB8#4	22.29	19.49	33.00	PASS
				RB8#7	22.07	19.27	33.00	PASS
				RB15#0	22.2	19.4	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.52	19.72	33.00	PASS
				RB1#7	22.45	19.65	33.00	PASS
				RB1#14	22.2	19.4	33.00	PASS
			LCH	RB8#0	21.24	18.44	33.00	PASS
				RB8#4	21.21	18.41	33.00	PASS
				RB8#7	21.11	18.31	33.00	PASS
				RB15#0	21.05	18.25	33.00	PASS
				RB1#0	22.59	19.79	33.00	PASS
				RB1#7	22.24	19.44	33.00	PASS
				RB1#14	22.5	19.7	33.00	PASS
BAND2	LTE/TM2	ЗМ	МСН	RB8#0	21.2	18.4	33.00	PASS
				RB8#4	21.22	18.42	33.00	PASS
				RB8#7	21.14	18.34	33.00	PASS
				RB15#0	21.23	18.43	33.00	PASS
				RB1#0	22.28	19.48	33.00	PASS
				RB1#7	22.37	19.57	33.00	PASS
				RB1#14	21.99	19.19	33.00	PASS
			НСН	RB8#0	21.23	18.43	33.00	PASS
				RB8#4	21.27	18.47	33.00	PASS
				RB8#7	21.19	18.39	33.00	PASS
				RB15#0	21.17	18.37	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.98	20.18	33.00	PASS
				RB1#13	23.01	20.21	33.00	PASS
				RB1#24	22.98	20.18	33.00	PASS
			LCH	RB12#0	22.1	19.3	33.00	PASS
				RB12#6	22.16	19.36	33.00	PASS
				RB12#13	22.14	19.34	33.00	PASS
				RB25#0	22.1	19.3	33.00	PASS
				RB1#0	22.95	20.15	33.00	PASS
				RB1#13	23.03	20.23	33.00	PASS
				RB1#24	22.92	20.12	33.00	PASS
BAND2	LTE/TM1	5M	MCH	RB12#0	22.07	19.27	33.00	PASS
				RB12#6	22.16	19.36	33.00	PASS
				RB12#13	22.11	19.31	33.00	PASS
				RB25#0	22.08	19.28	33.00	PASS
				RB1#0	23	20.2	33.00	PASS
				RB1#13	23.15	20.35	33.00	PASS
				RB1#24	22.97	20.17	33.00	PASS
			НСН	RB12#0	22.13	19.33	33.00	PASS
				RB12#6	22.24	19.44	33.00	PASS
				RB12#13	22.19	19.39	33.00	PASS
				RB25#0	22.17	19.37	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.09	19.29	33.00	PASS
				RB1#13	21.92	19.12	33.00	PASS
				RB1#24	22.34	19.54	33.00	PASS
			LCH	RB12#0	21.16	18.36	33.00	PASS
				RB12#6	21.06	18.26	33.00	PASS
				RB12#13	21.12	18.32	33.00	PASS
				RB25#0	21.22	18.42	33.00	PASS
				RB1#0	21.88	19.08	33.00	PASS
				RB1#13	22.6	19.8	33.00	PASS
				RB1#24	22.12	19.32	33.00	PASS
BAND2	LTE/TM2	5M	MCH	RB12#0	21.11	18.31	33.00	PASS
				RB12#6	21.13	18.33	33.00	PASS
				RB12#13	21.19	18.39	33.00	PASS
				RB25#0	21.13	18.33	33.00	PASS
				RB1#0	22.46	19.66	33.00	PASS
				RB1#13	22.42	19.62	33.00	PASS
				RB1#24	21.8	19	33.00	PASS
			нсн	RB12#0	21.15	18.35	33.00	PASS
				RB12#6	21.11	18.31	33.00	PASS
				RB12#13	21.24	18.44	33.00	PASS
				RB25#0	21.05	18.25	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	23.08	20.28	33.00	PASS
				RB1#25	23.3	20.5	33.00	PASS
				RB1#49	22.97	20.17	33.00	PASS
			LCH	RB25#0	22.12	19.32	33.00	PASS
				RB25#13	22.09	19.29	33.00	PASS
				RB25#25	22.04	19.24	33.00	PASS
				RB50#0	22.18	19.38	33.00	PASS
				RB1#0	23.03	20.23	33.00	PASS
				RB1#25	23.38	20.58	33.00	PASS
				RB1#49	23.13	20.33	33.00	PASS
BAND2	LTE/TM1	10M	МСН	RB25#0	22.05	19.25	33.00	PASS
				RB25#13	22.18	19.38	33.00	PASS
				RB25#25	22.29	19.49	33.00	PASS
				RB50#0	22.17	19.37	33.00	PASS
				RB1#0	23.25	20.45	33.00	PASS
				RB1#25	23.2	20.4	33.00	PASS
				RB1#49	23.09	20.29	33.00	PASS
			НСН	RB25#0	22.19	19.39	33.00	PASS
				RB25#13	22.33	19.53	33.00	PASS
				RB25#25	22.41	19.61	33.00	PASS
				RB50#0	22.22	19.42	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.38	19.58	33.00	PASS
				RB1#25	22.33	19.53	33.00	PASS
				RB1#49	22.56	19.76	33.00	PASS
			LCH	RB25#0	21.12	18.32	33.00	PASS
				RB25#13	21.05	18.25	33.00	PASS
				RB25#25	21.2	18.4	33.00	PASS
				RB50#0	21.17	18.37	33.00	PASS
				RB1#0	22.28	19.48	33.00	PASS
				RB1#25	22.66	19.86	33.00	PASS
				RB1#49	22.24	19.44	33.00	PASS
BAND2	LTE/TM2	10M	МСН	RB25#0	21.13	18.33	33.00	PASS
				RB25#13	21.23	18.43	33.00	PASS
				RB25#25	21.31	18.51	33.00	PASS
				RB50#0	21.27	18.47	33.00	PASS
				RB1#0	22.63	19.83	33.00	PASS
				RB1#25	22.4	19.6	33.00	PASS
				RB1#49	22.1	19.3	33.00	PASS
			НСН	RB25#0	21.2	18.4	33.00	PASS
				RB25#13	21.38	18.58	33.00	PASS
				RB25#25	21.34	18.54	33.00	PASS
				RB50#0	21.24	18.44	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.93	20.13	33.00	PASS
				RB1#38	23.09	20.29	33.00	PASS
				RB1#74	23.09	20.29	33.00	PASS
			LCH	RB36#0	22.17	19.37	33.00	PASS
				RB36#18	22.07	19.27	33.00	PASS
				RB36#39	21.94	19.14	33.00	PASS
				RB75#0	22	19.2	33.00	PASS
				RB1#0	23.02	20.22	33.00	PASS
				RB1#38	23.12	20.32	33.00	PASS
				RB1#74	23.01	20.21	33.00	PASS
BAND2	LTE/TM1	15M	MCH	RB36#0	22.14	19.34	33.00	PASS
				RB36#18	22.19	19.39	33.00	PASS
				RB36#39	22.1	19.3	33.00	PASS
				RB75#0	22.25	19.45	33.00	PASS
				RB1#0	23.1	20.3	33.00	PASS
				RB1#38	23.21	20.41	33.00	PASS
				RB1#74	23.07	20.27	33.00	PASS
			HCH	RB36#0	22.23	19.43	33.00	PASS
				RB36#18	22.2	19.4	33.00	PASS
				RB36#39	22.31	19.51	33.00	PASS
				RB75#0	22.31	19.51	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.27	19.47	33.00	PASS
				RB1#38	22.2	19.4	33.00	PASS
				RB1#74	22.22	19.42	33.00	PASS
			LCH	RB36#0	21.2	18.4	33.00	PASS
				RB36#18	21.17	18.37	33.00	PASS
				RB36#39	21.17	18.37	33.00	PASS
				RB75#0	21.2	18.4	33.00	PASS
				RB1#0	22.58	19.78	33.00	PASS
				RB1#38	22.57	19.77	33.00	PASS
BAND2				RB1#74	22.42	19.62	33.00	PASS
	LTE/TM2	15M	MCH	RB36#0	21.13	18.33	33.00	PASS
				RB36#18	21.2	18.4	33.00	PASS
				RB36#39	21.14	18.34	33.00	PASS
				RB75#0	21.31	18.51	33.00	PASS
				RB1#0	22.23	19.43	33.00	PASS
				RB1#38	22.17	19.37	33.00	PASS
				RB1#74	22.02	19.22	33.00	PASS
			HCH	RB36#0	21.26	18.46	33.00	PASS
				RB36#18	21.32	18.52	33.00	PASS
				RB36#39	21.28	18.48	33.00	PASS
				RB75#0	21.23	18.43	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.95	20.15	33.00	PASS
				RB1#50	23.18	20.38	33.00	PASS
				RB1#99	22.8	20	33.00	PASS
			LCH	RB50#0	22.27	19.47	33.00	PASS
				RB50#25	22.24	19.44	33.00	PASS
				RB50#50	22.1	19.3	33.00	PASS
				RB100#0	22.22	19.42	33.00	PASS
				RB1#0	22.85	20.05	33.00	PASS
				RB1#50	23.12	20.32	33.00	PASS
				RB1#99	22.96	20.16	33.00	PASS
BAND2	LTE/TM1	20M	МСН	RB50#0	22.16	19.36	33.00	PASS
				RB50#25	22.16	19.36	33.00	PASS
				RB50#50	22.31	19.51	33.00	PASS
				RB100#0	22.23	19.43	33.00	PASS
				RB1#0	22.96	20.16	33.00	PASS
				RB1#50	23.3	20.5	33.00	PASS
				RB1#99	22.91	20.11	33.00	PASS
			НСН	RB50#0	22.34	19.54	33.00	PASS
				RB50#25	22.38	19.58	33.00	PASS
				RB50#50	22.44	19.64	33.00	PASS
				RB100#0	22.34	19.54	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
	LTE/TM2	20M	LСН	RB1#0	22.08	19.28	33.00	PASS
				RB1#50	22.58	19.78	33.00	PASS
				RB1#99	22.44	19.64	33.00	PASS
				RB50#0	21.2	18.4	33.00	PASS
				RB50#25	21.15	18.35	33.00	PASS
				RB50#50	21.15	18.35	33.00	PASS
				RB100#0	21.11	18.31	33.00	PASS
			MCH	RB1#0	22.18	19.38	33.00	PASS
				RB1#50	22.68	19.88	33.00	PASS
				RB1#99	22.42	19.62	33.00	PASS
BAND2				RB50#0	21.24	18.44	33.00	PASS
				RB50#25	21.31	18.51	33.00	PASS
				RB50#50	21.41	18.61	33.00	PASS
				RB100#0	21.13	18.33	33.00	PASS
			НСН	RB1#0	22.08	19.28	33.00	PASS
				RB1#50	22.57	19.77	33.00	PASS
				RB1#99	22.34	19.54	33.00	PASS
				RB50#0	21.39	18.59	33.00	PASS
				RB50#25	21.31	18.51	33.00	PASS
				RB50#50	21.45	18.65	33.00	PASS
			RB100#0	21.51	18.71	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,

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 2	TM1/20M	LCH	5.04	13	PASS
		MCH	5.07	13	PASS
		HCH	4.96	13	PASS
	TM2/20M	LCH	6.00	13	PASS
		MCH	5.91	13	PASS
		HCH	5.80	13	PASS

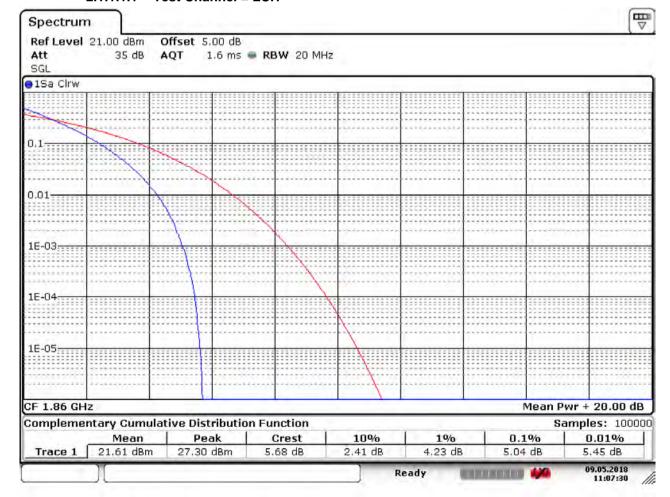
Part II - Test Plots

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



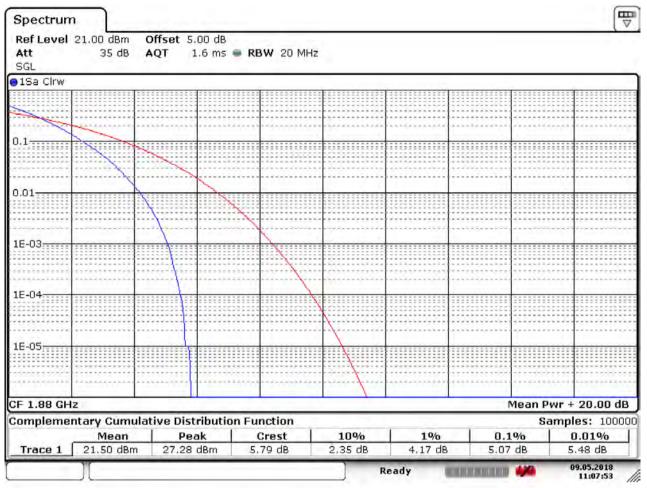
Date: 9.MAY.2018 11:07:31



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2.1.1.1.2 Test Channel = MCH



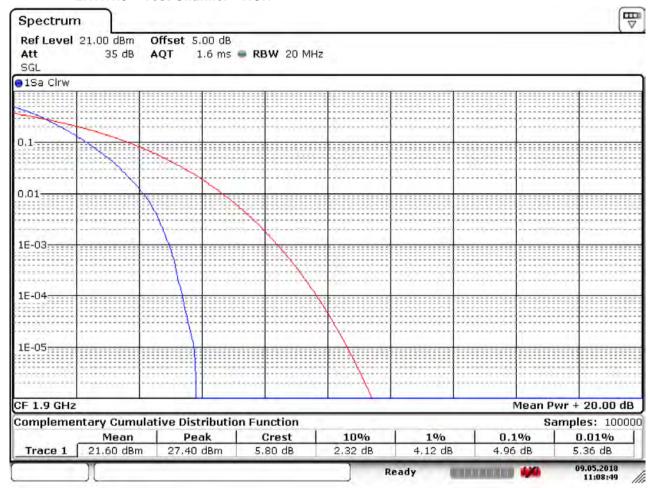
Date: 9.MAY.2018 11:07:53



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2.1.1.1.3 Test Channel = HCH



Date: 9.MAY.2018 11:08:49

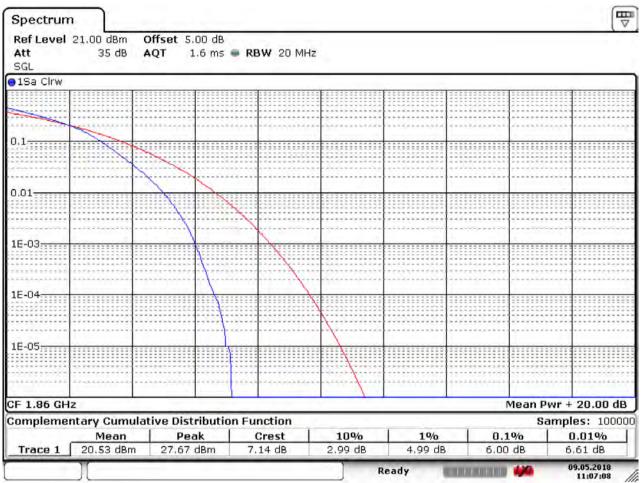


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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1 Test Channel = LCH



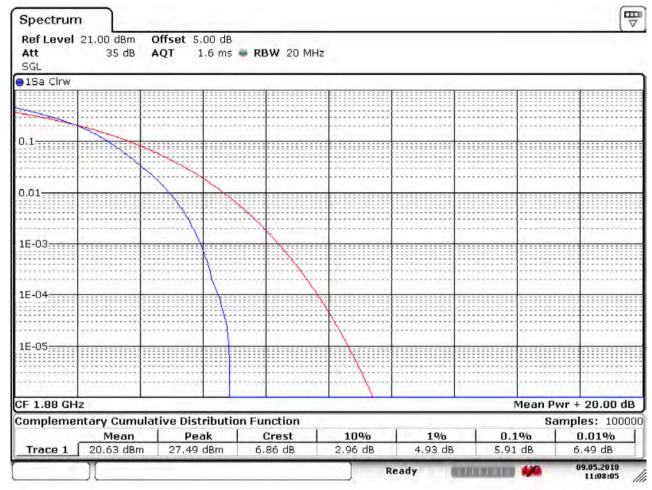
Date: 9.MAY.2018 11:07:09



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2.1.1.2.2 Test Channel = MCH



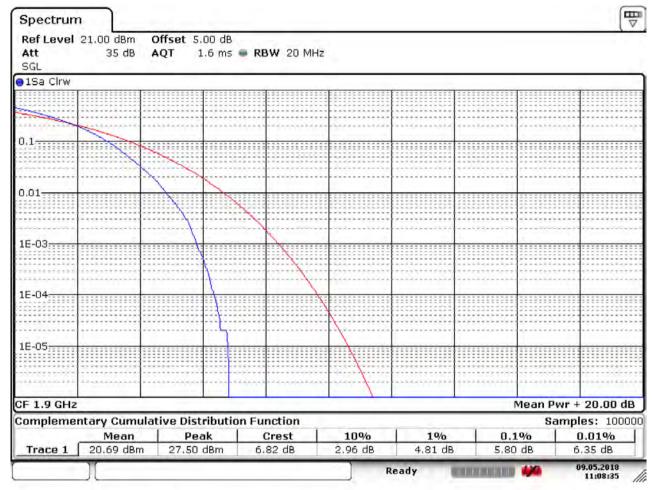
Date: 9.MAY.2018 11:08:05



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2.1.1.2.3 Test Channel = HCH



Date: 9.MAY.2018 11:08:35



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3 Modulation Characteristics

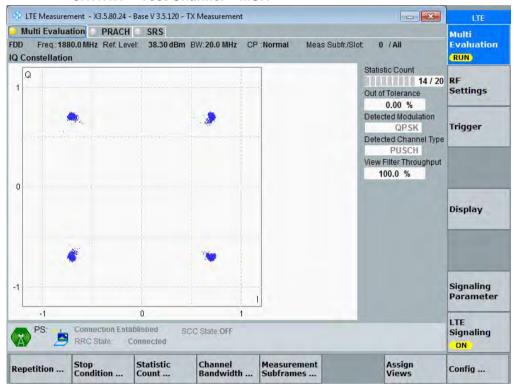
Part I - Test Plots

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



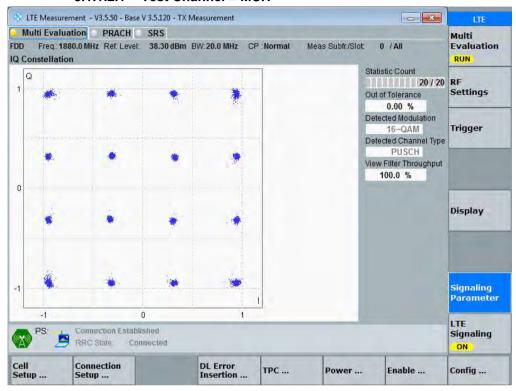


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3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.10	1.31	PASS
	TM1/1.4MHz	MCH	1.10	1.28	PASS
		HCH	1.10	1.31	PASS
		LCH	1.10	1.31	PASS
	TM2/1.4MHz	MCH	1.10	1.29	PASS
		HCH	1.10	1.31	PASS
		LCH	2.68	2.87	PASS
	TM1/3MHz	MCH	2.68	2.85	PASS
		HCH	2.68	2.87	PASS
		LCH	2.67	2.85	PASS
	TM2/3MHz	MCH	2.67	2.87	PASS
		HCH	2.67	2.87	PASS
		LCH	4.48	5.08	PASS
	TM1/5MHz	MCH	4.49	5.04	PASS
		HCH	4.48	5.03	PASS
		LCH	4.49	5.08	PASS
	TM2/ 5MHz	MCH	4.48	4.97	PASS
		HCH	4.50	5.05	PASS
Band 2		LCH	8.95	9.85	PASS
	TM1/10MHz	MCH	8.93	9.79	PASS
		HCH	8.97	9.91	PASS
		LCH	8.93	9.91	PASS
	TM2/ 10MHz	MCH	8.97	9.85	PASS
		HCH	8.95	9.73	PASS
		LCH	13.52	15.26	PASS
	TM1/ 15MHz	MCH	13.46	15.11	PASS
		HCH	13.49	15.05	PASS
		LCH	13.52	15.08	PASS
	TM2/ 15MHz	MCH	13.52	15.02	PASS
		HCH	13.52	15.05	PASS
		LCH	17.98	19.94	PASS
	TM1/20MHz	MCH	17.90	19.54	PASS
		HCH	17.90	19.50	PASS
		LCH	17.94	19.70	PASS
	TM2/ 20MHz	MCH	17.90	19.66	PASS
		HCH	17.94	19.78	PASS



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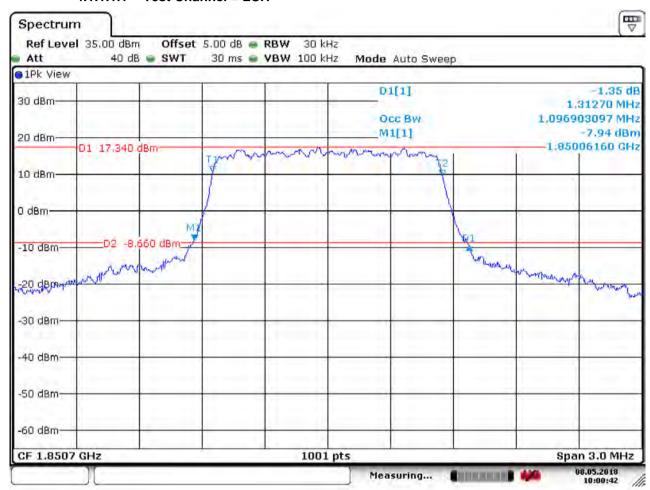
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4.1 For LTE

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

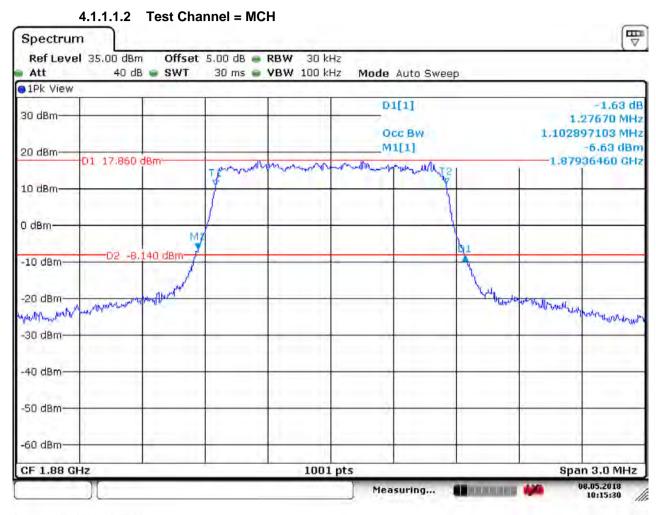


Date: 8.MAY.2018 10:00:42



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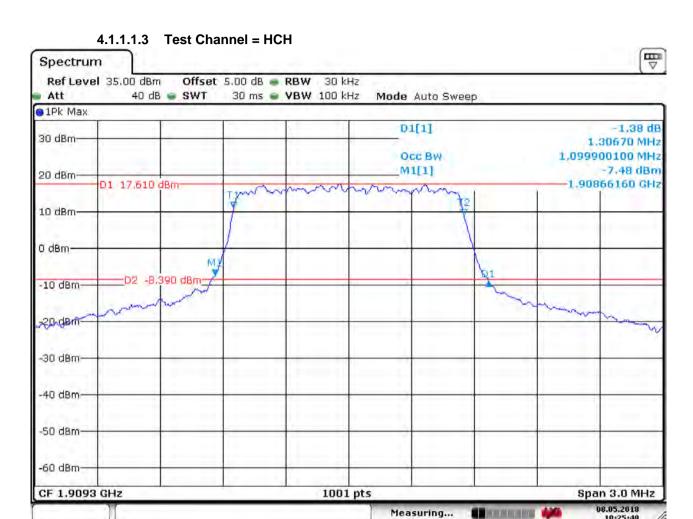


Date: 8.MAY.2018 10:15:30



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Date: 8.MAY.2018 10:25:49

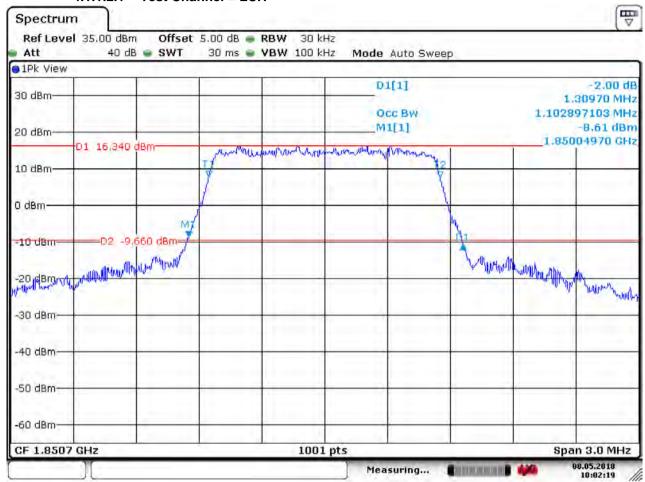


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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

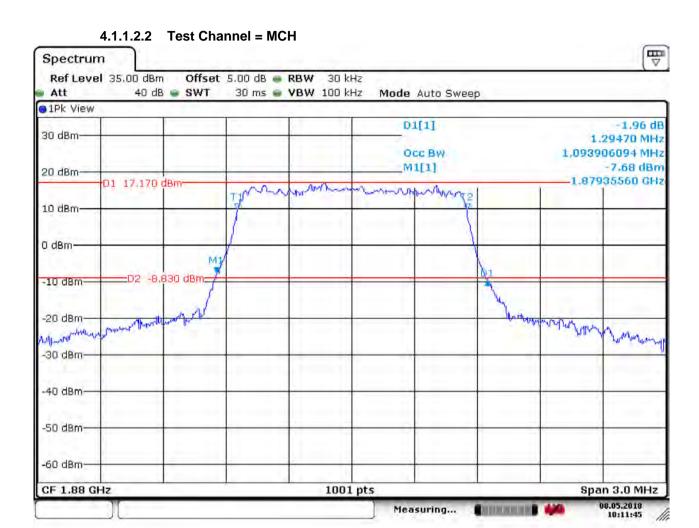


Date: 8.MAY.2018 10:02:20



Report No.: SZEM180300245201

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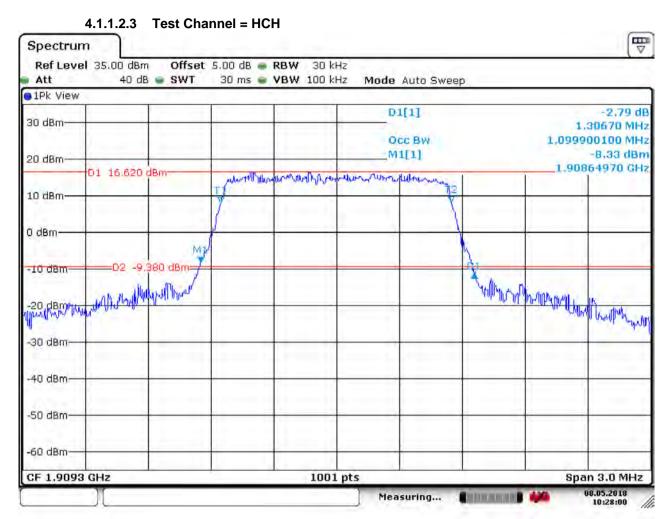


Date: 8.MAY.2018 10:11:46



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Date: 8.MAY.2018 10:28:01

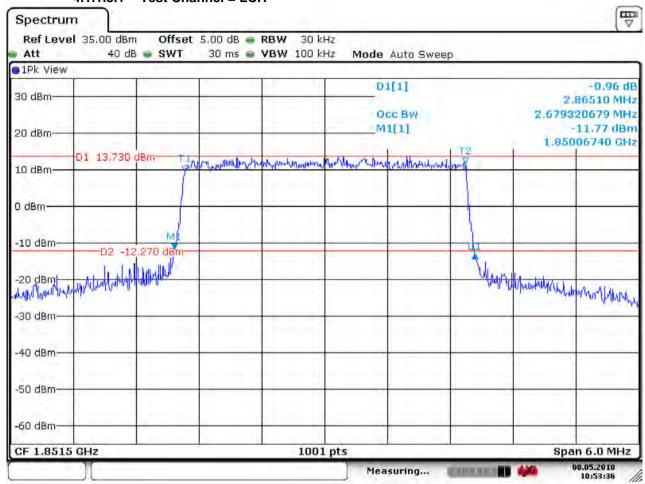


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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

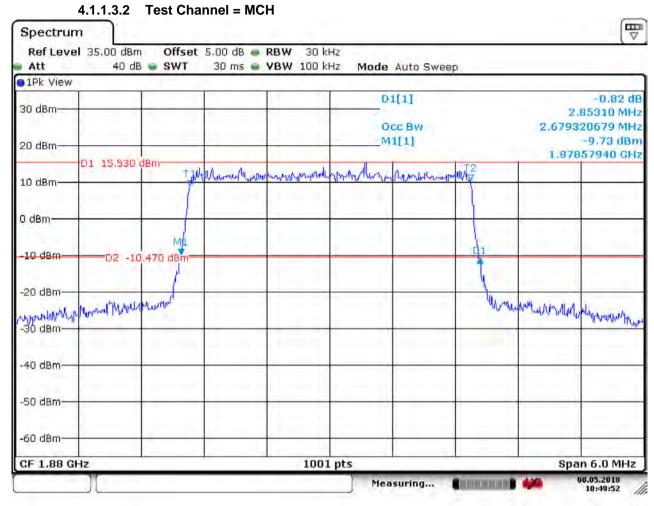


Date: 8.MAY.2018 10:53:36



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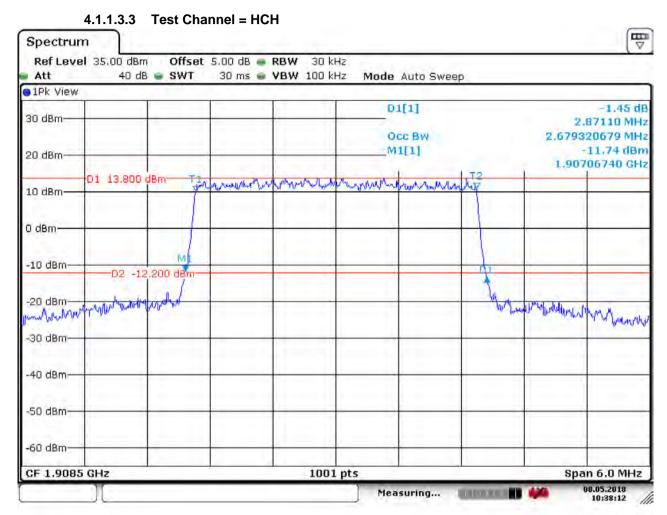


Date: 8.MAY.2018 10:49:52



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Date: 8.MAY.2018 10:38:12

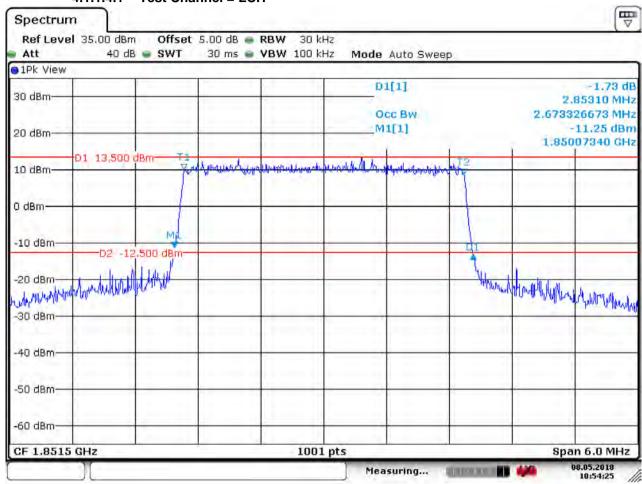


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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

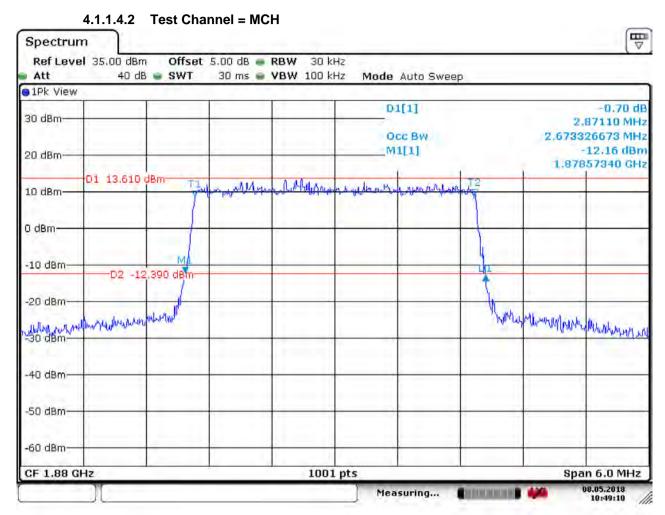


Date: 8.MAY.2018 10:54:26



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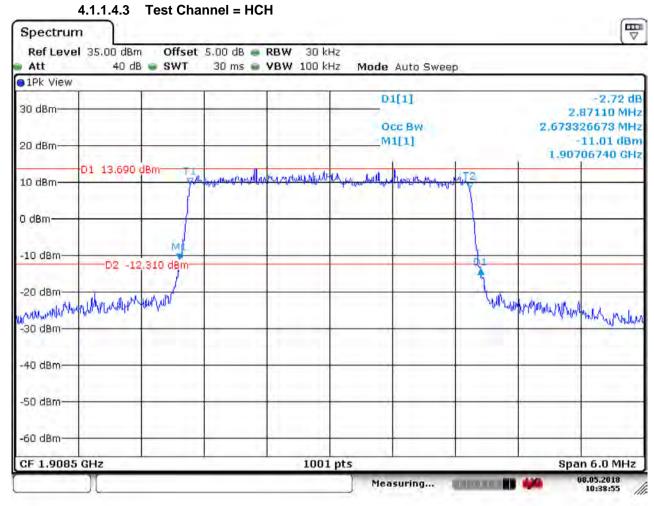


Date: 8.MAY.2018 10:49:11



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Date: 8.MAY.2018 10:38:55

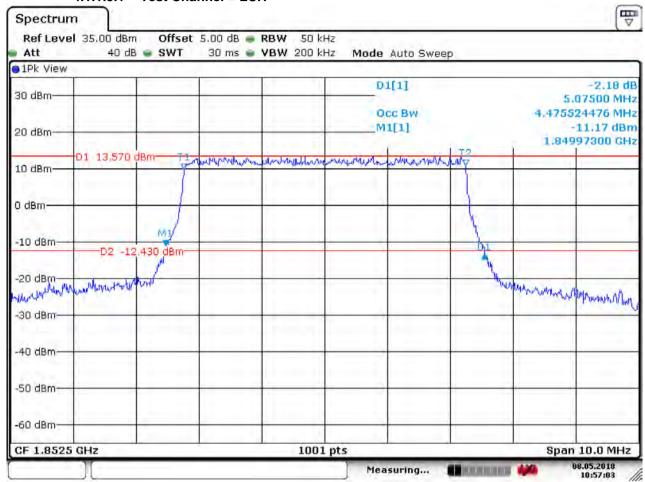


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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

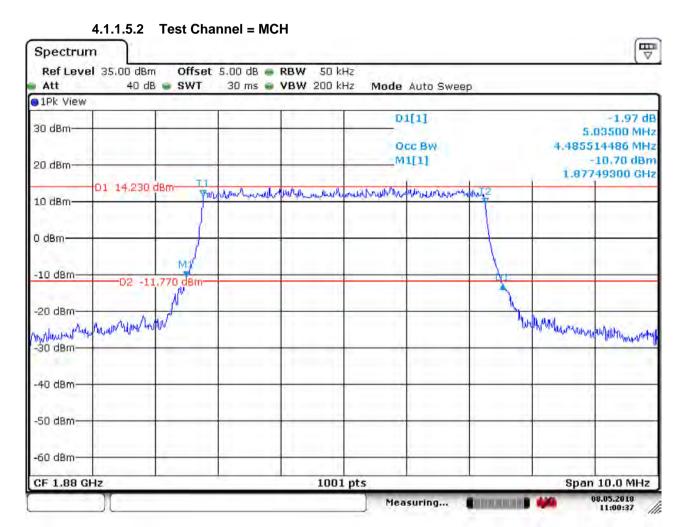


Date: 8.MAY.2018 10:57:03



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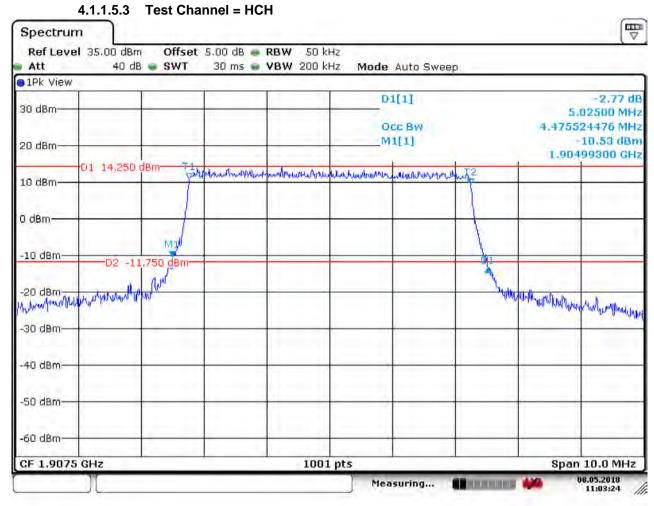


Date: 8.MAY.2018 11:00:37



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Date: 8.MAY.2018 11:03:24

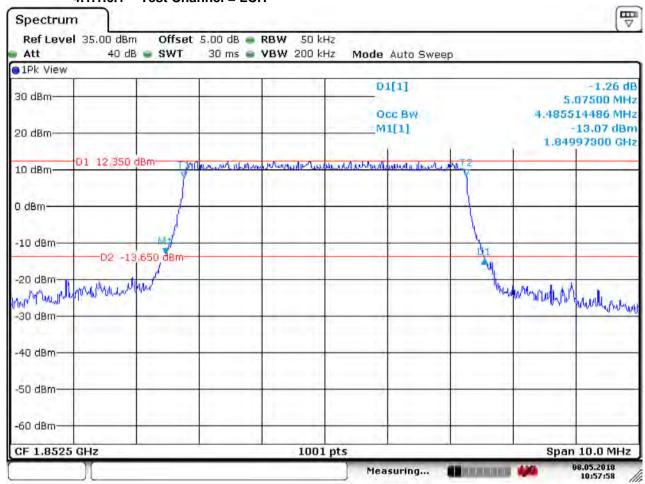


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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

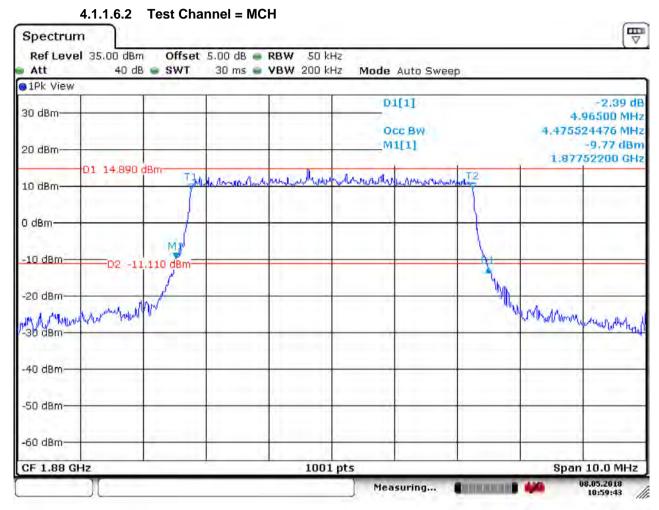


Date: 8.MAY.2018 10:57:59



Report No.: SZEM180300245201

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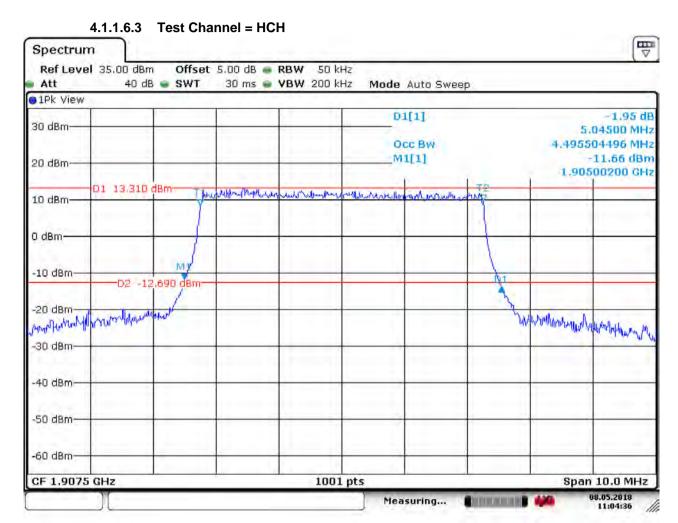


Date: 8.MAY.2018 10:59:43



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Date: 8.MAY.2018 11:04:37

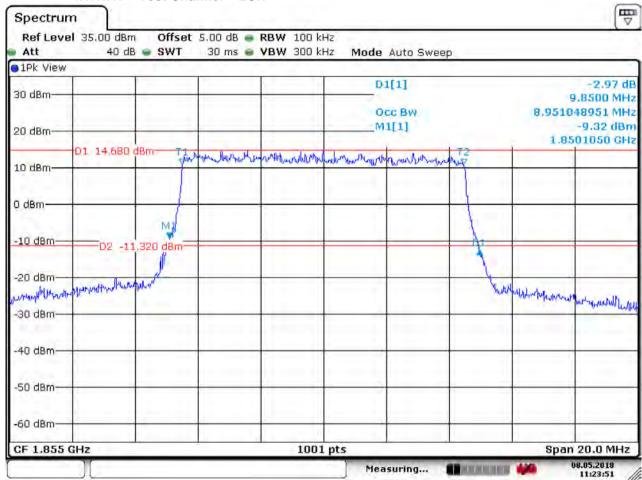


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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

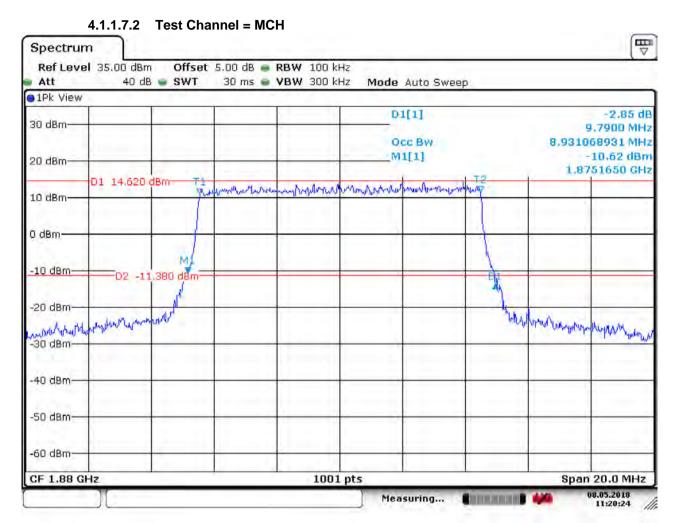


Date: 8.MAY.2018 11:23:51



Report No.: SZEM180300245201

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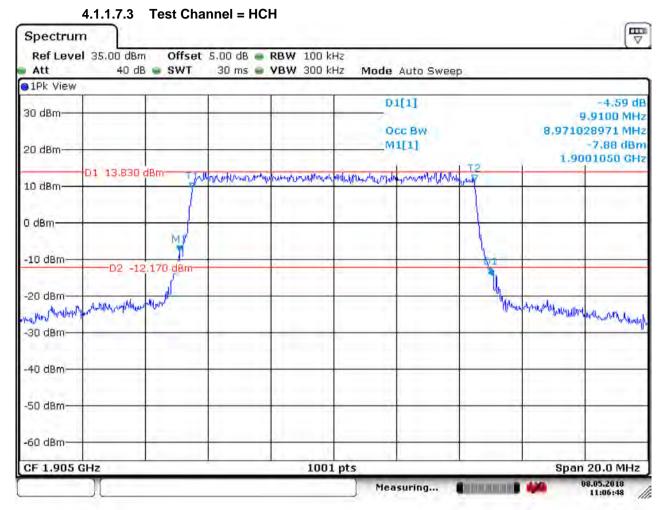


Date: 8.MAY.2018 11:20:24



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Date: 8.MAY.2018 11:06:48

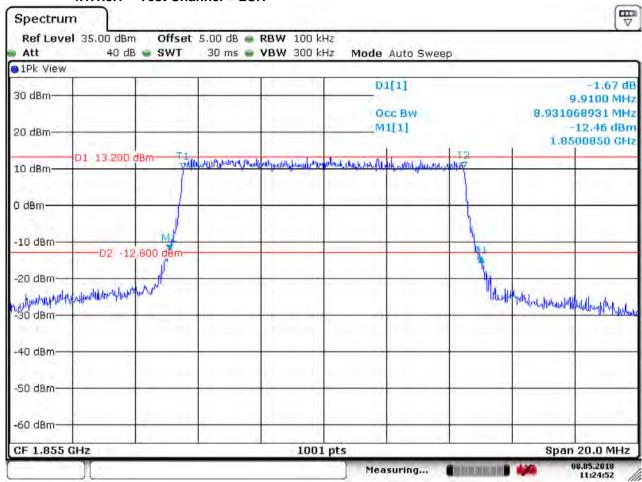


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4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH

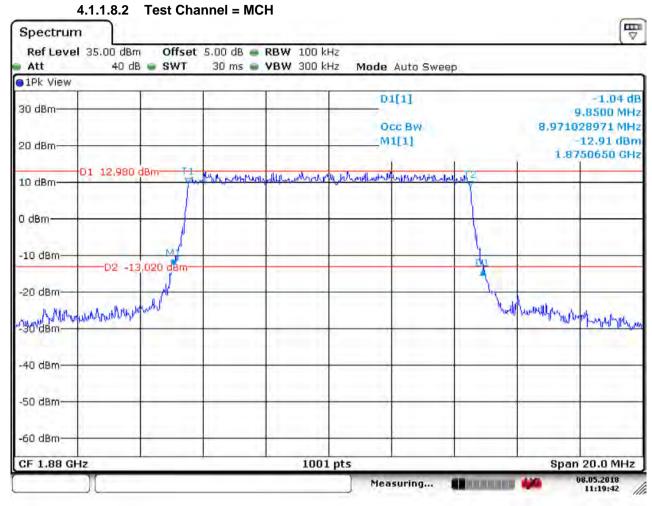


Date: 8.MAY.2018 11:24:52



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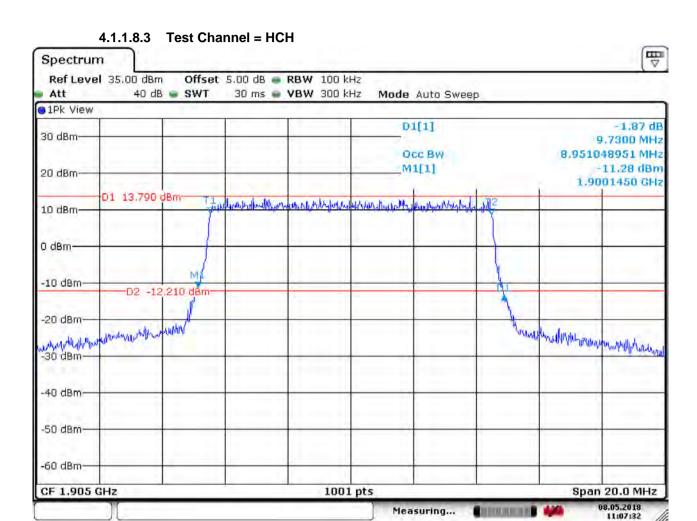


Date: 8.MAY.2018 11:19:42



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Date: 8.MAY.2018 11:07:33

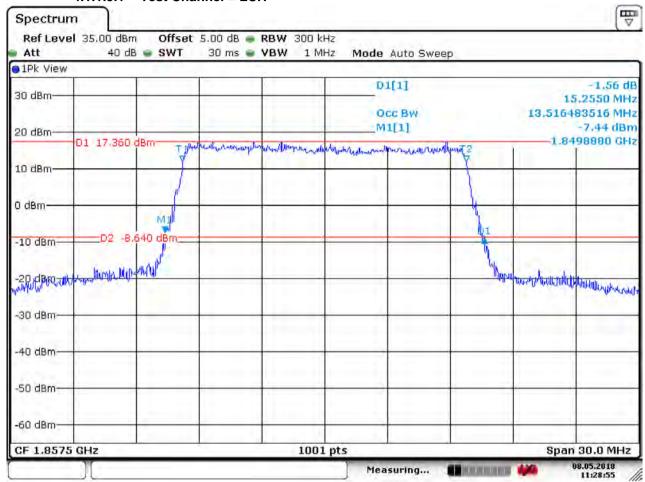


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4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH

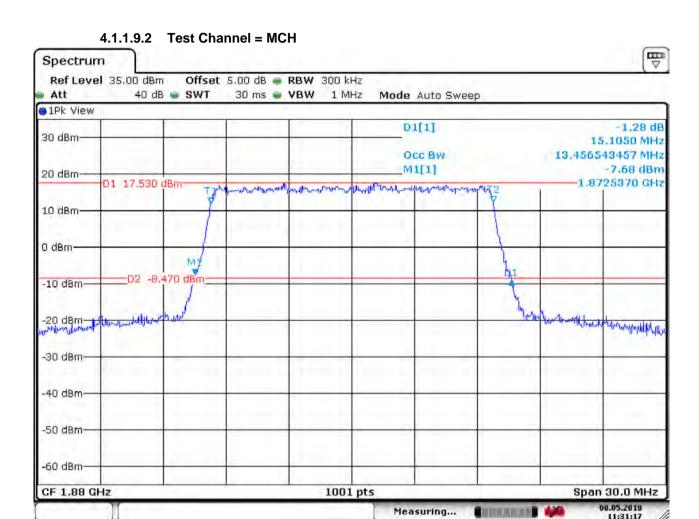


Date: 8.MAY.2018 11:28:55



Report No.: SZEM180300245201

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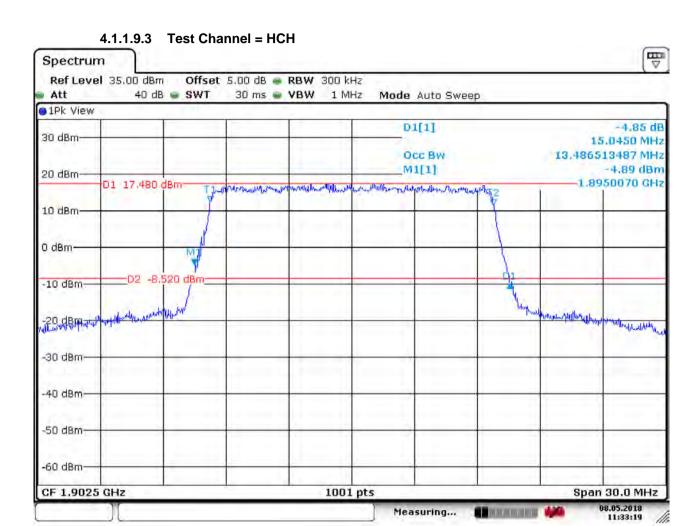


Date: 8.MAY.2018 11:31:18



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Date: 8.MAY.2018 11:33:19

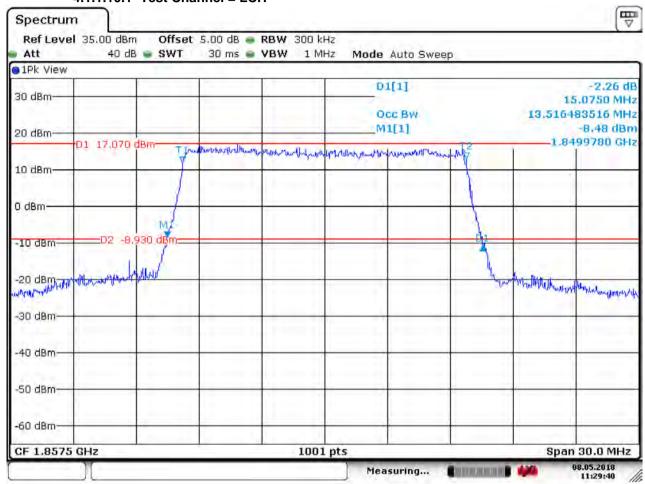


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4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH

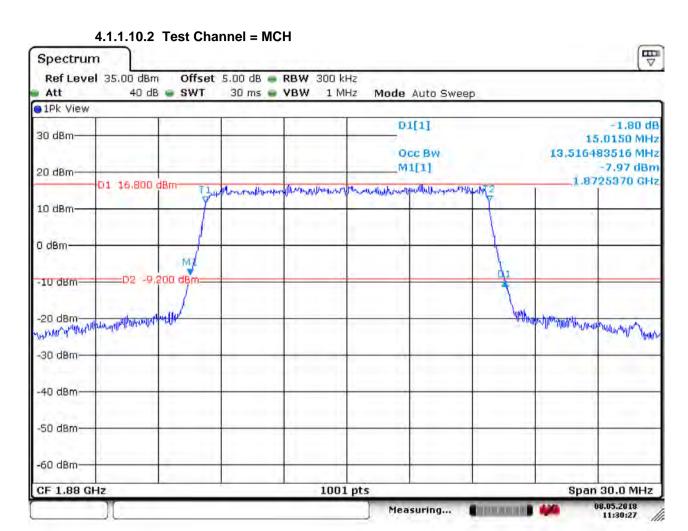


Date: 8.MAY.2018 11:29:40



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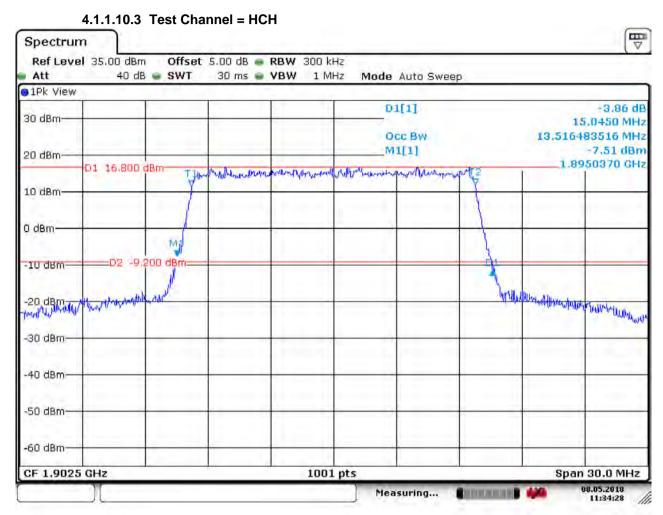


Date: 8.MAY.2018 11:30:28



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Date: 8.MAY.2018 11:34:28

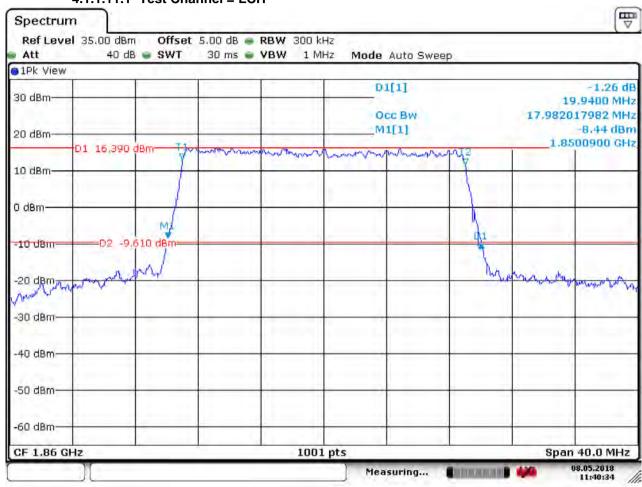


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4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

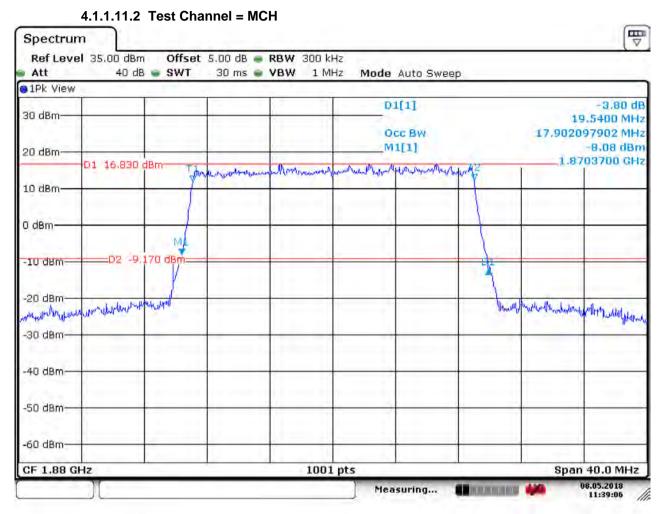


Date: 8.MAY.2018 11:40:34



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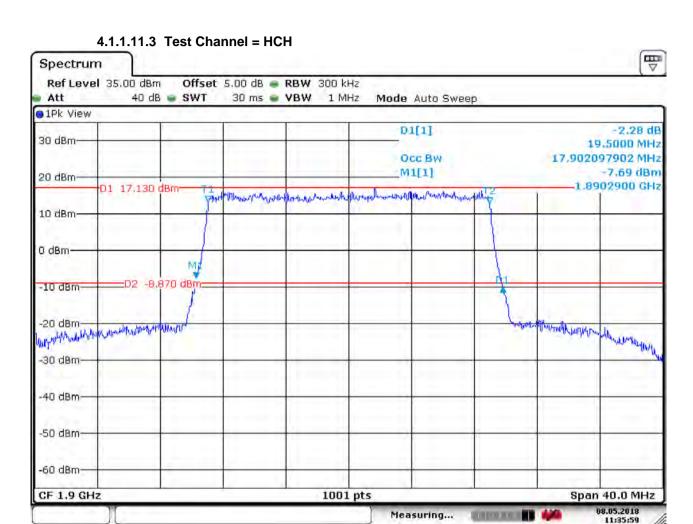


Date: 8.MAY.2018 11:39:06



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Date: 8.MAY.2018 11:35:59

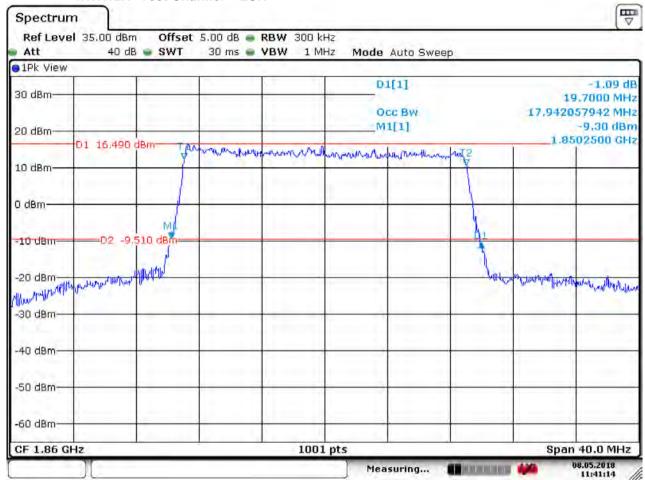


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4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH

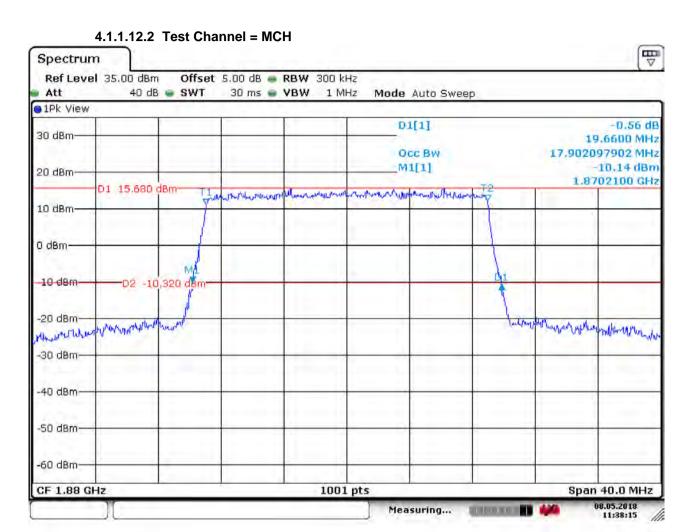


Date: 8.MAY.2018 11:41:15



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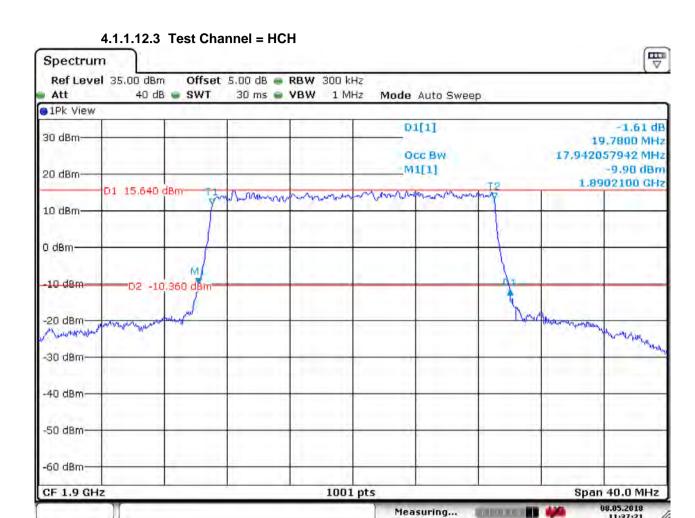


Date: 8.MAY.2018 11:38:15



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Date: 8.MAY.2018 11:37:22



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5 Band Edges Compliance

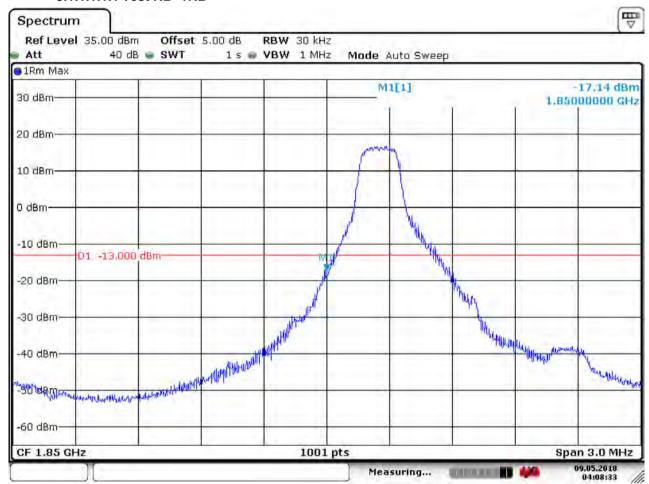
5.1 For LTE

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 Test RB=1RB



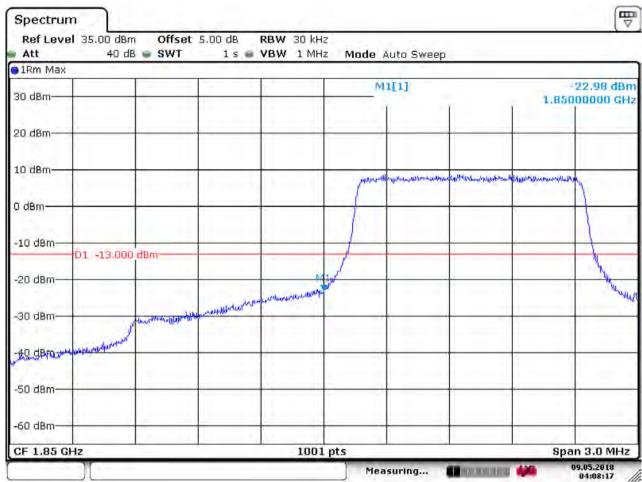
Date: 9.MAY.2018 04:08:33



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5.1.1.1.1.2 Test RB=6RB



Date: 9.MAY.2018 04:08:18

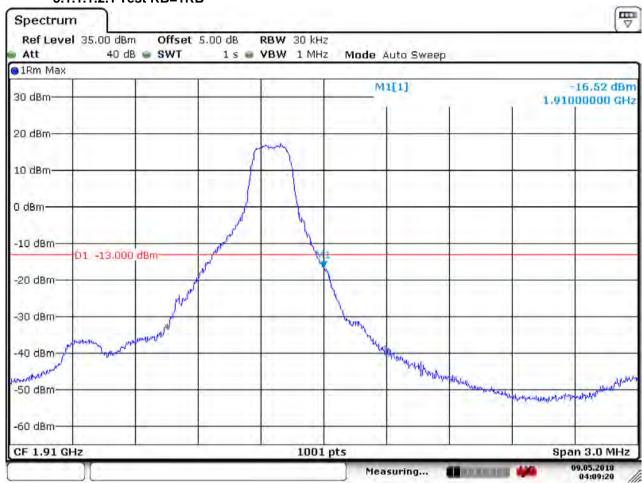


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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 9.MAY.2018 04:09:21



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Date: 9.MAY.2018 04:10:08

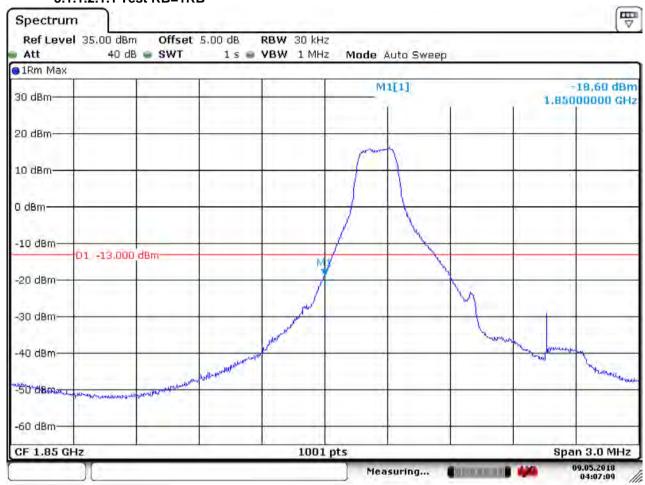


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5.1.1.2 Test Mode = LTE/TM2 1.4MHz 5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



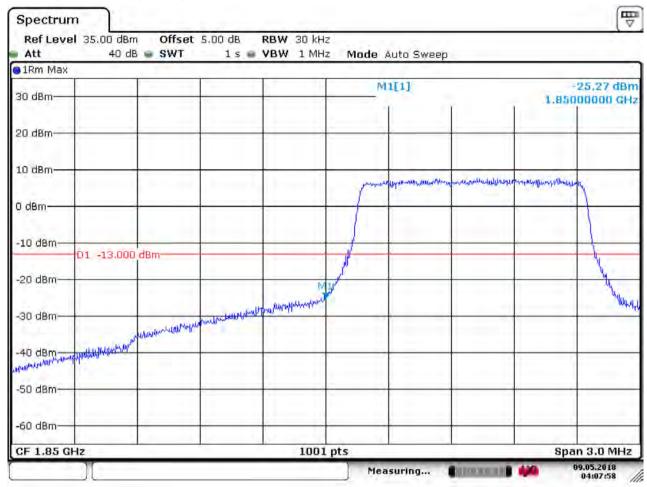
Date: 9.MAY.2018 04:07:09



Report No.: SZEM180300245201

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5.1.1.2.1.2 Test RB=6RB



Date: 9.MAY.2018 04:07:59

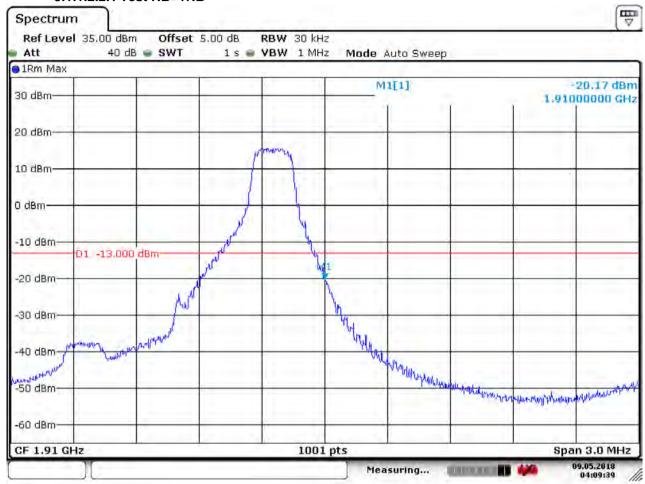


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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



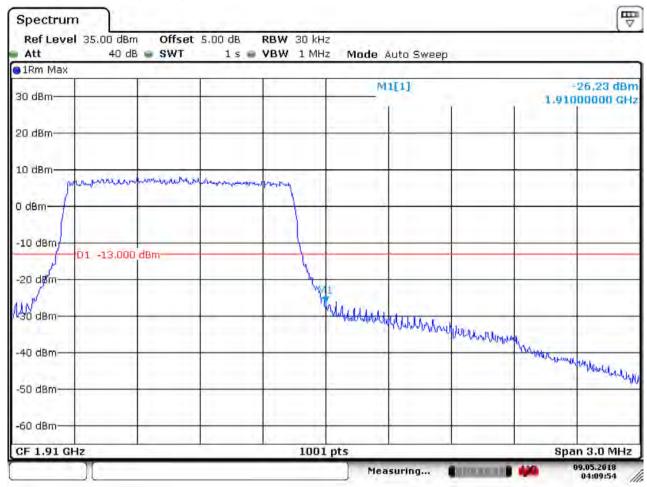
Date: 9.MAY.2018 04:09:40



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5.1.1.2.2.2 Test RB=6RB



Date: 9.MAY.2018 04:09:54

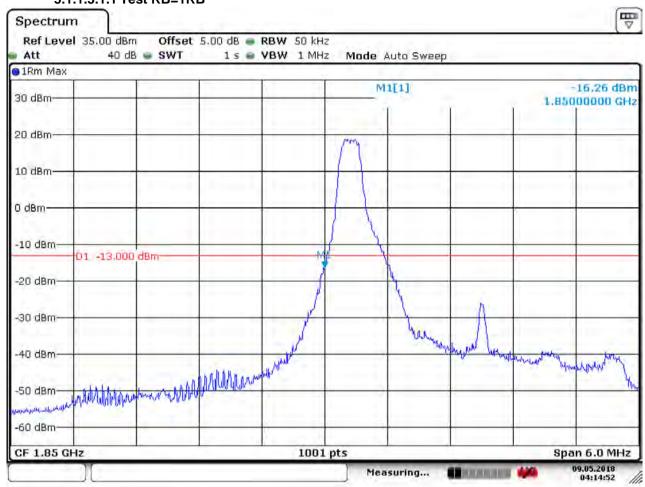


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5.1.1.3 Test Mode = LTE/TM1 3MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

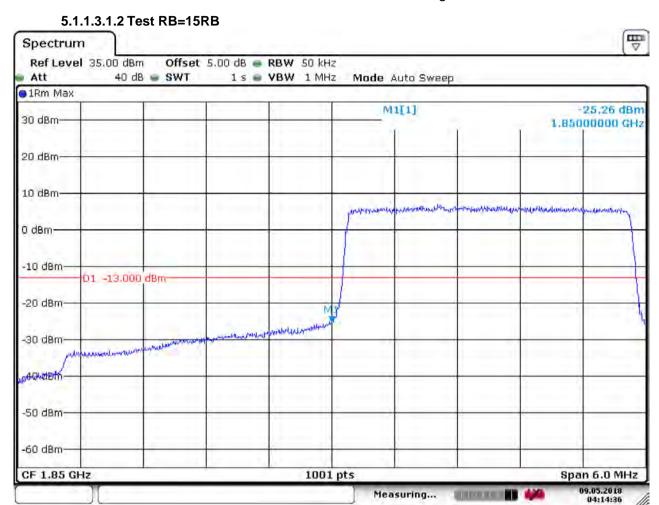


Date: 9.MAY.2018 04:14:52



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Date: 9.MAY.2018 04:14:36

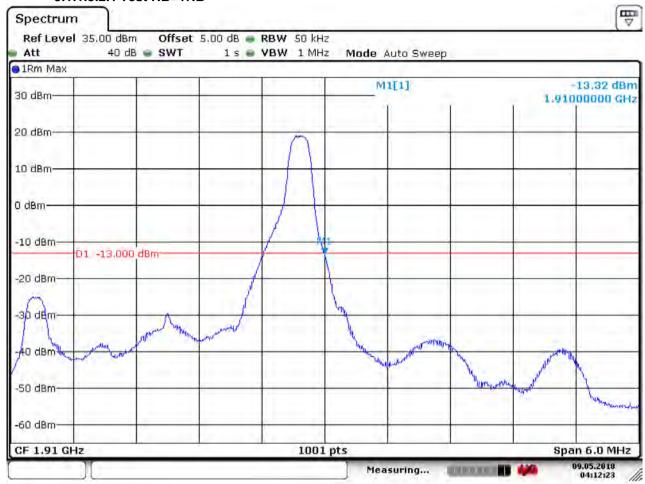


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

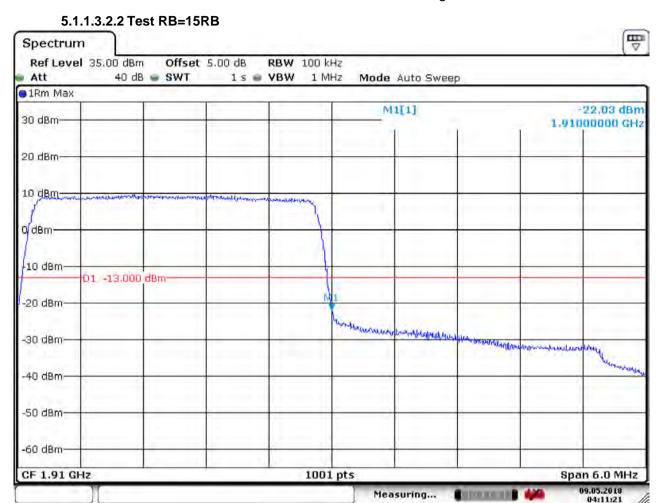


Date: 9.MAY.2018 04:12:23



Report No.: SZEM180300245201

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Date: 9.MAY.2018 04.11:21

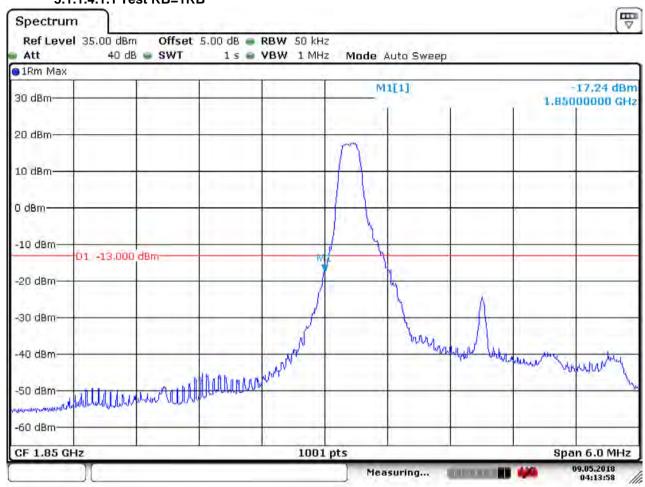


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5.1.1.4 Test Mode = LTE/TM2 3MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

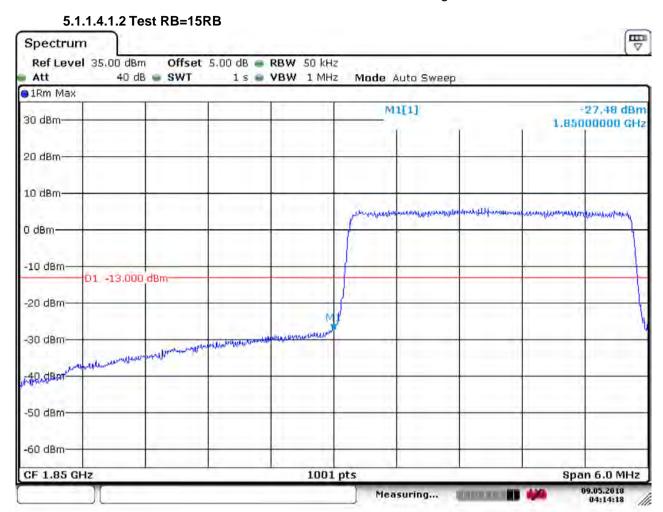


Date: 9.MAY.2018 04:13:58



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Date: 9.MAY.2018 04:14:19

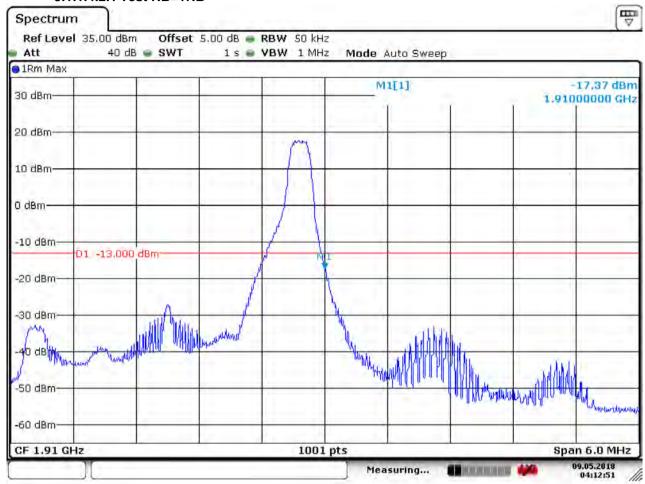


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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



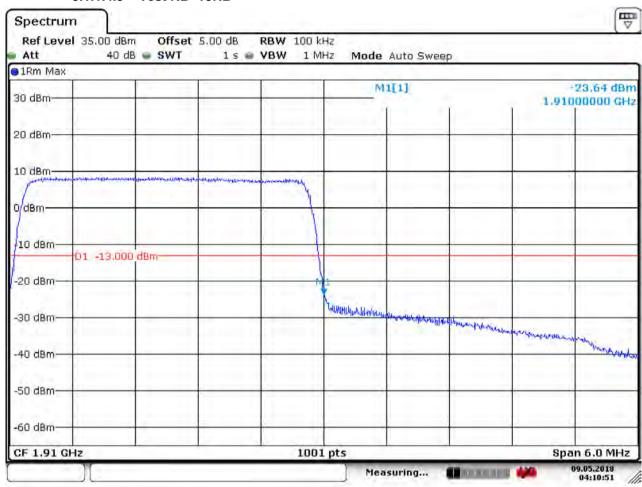
Date: 9.MAY.2018 04:12:51



Report No.: SZEM180300245201

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5.1.1.4.3 Test RB=15RB



Date: 9.MAY.2018 04:10:52

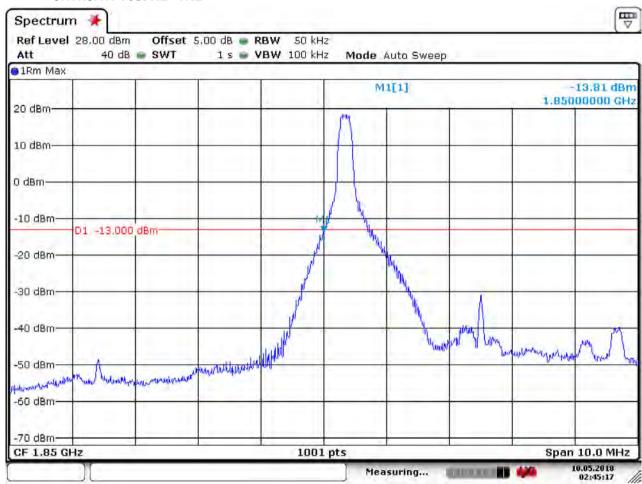


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5.1.1.5 Test Mode = LTE/TM1 5MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



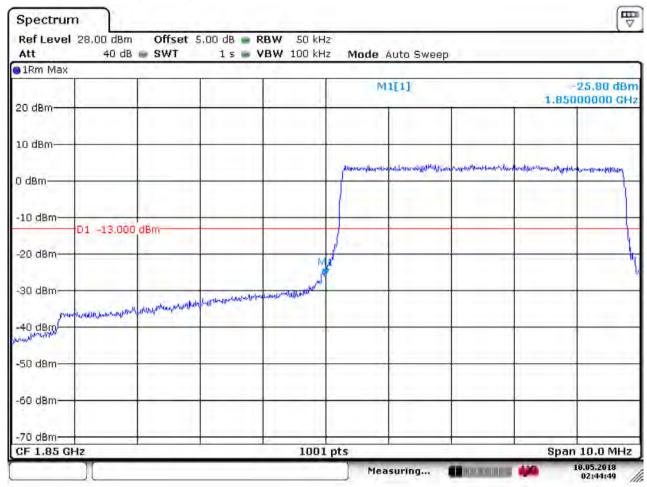
Date: 10.MAY.2018 02:45:18



Report No.: SZEM180300245201

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5.1.1.5.1.2 Test RB=25RB



Date: 10.MAY.2018 02:44:49

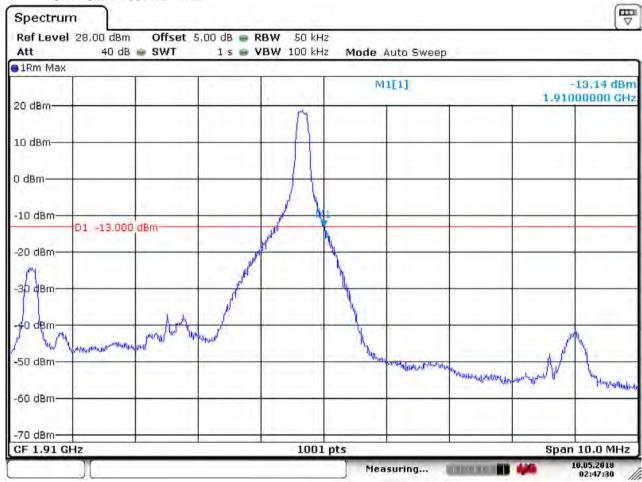


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



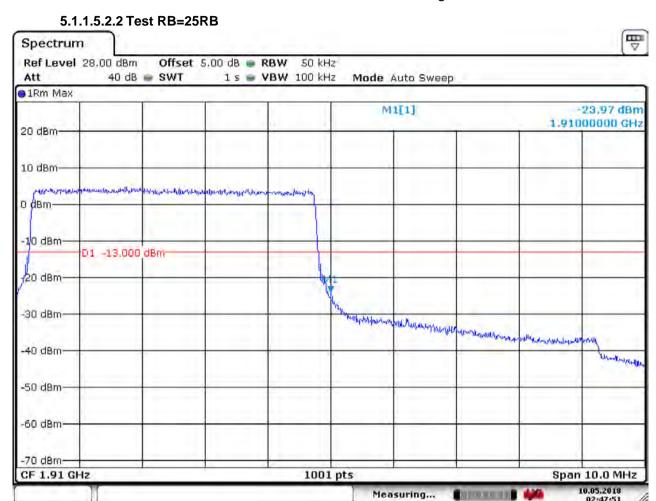
Date: 10.MAY.2018 02:47:30



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02:47:51

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Date: 10.MAY.2018 02:47:52

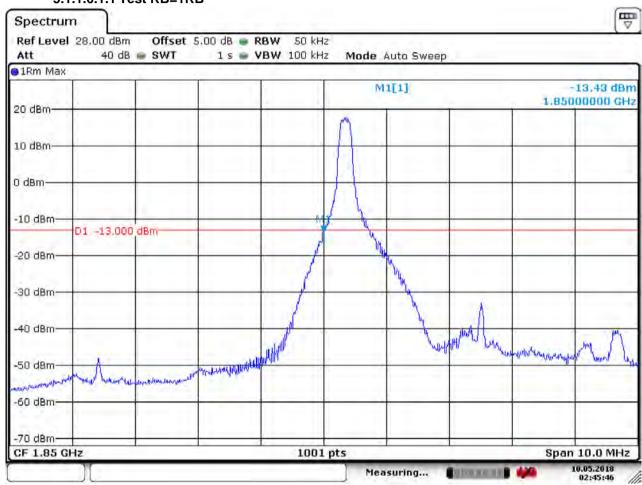


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5.1.1.6 Test Mode = LTE/TM2 5MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



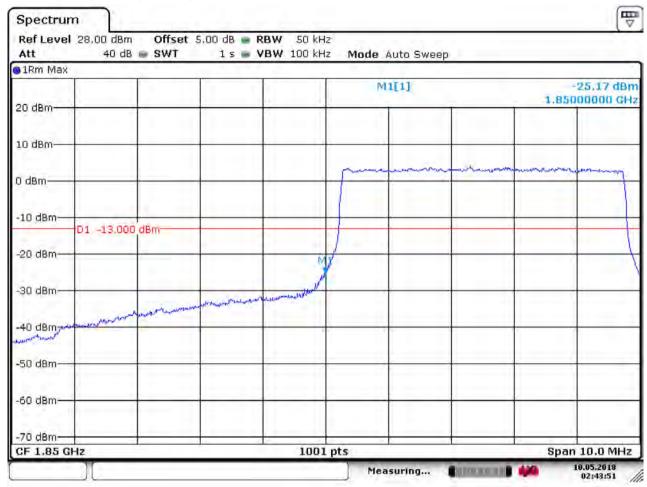
Date: 10.MAY.2018 02:45:47



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5.1.1.6.1.2 Test RB=25RB



Date: 10.MAY.2018 02:43:51

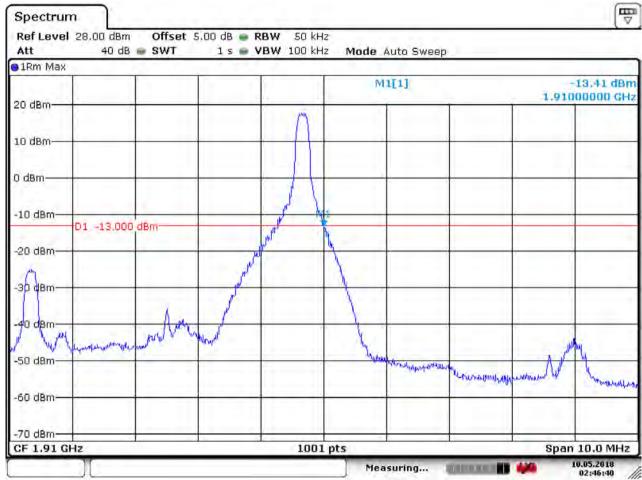


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



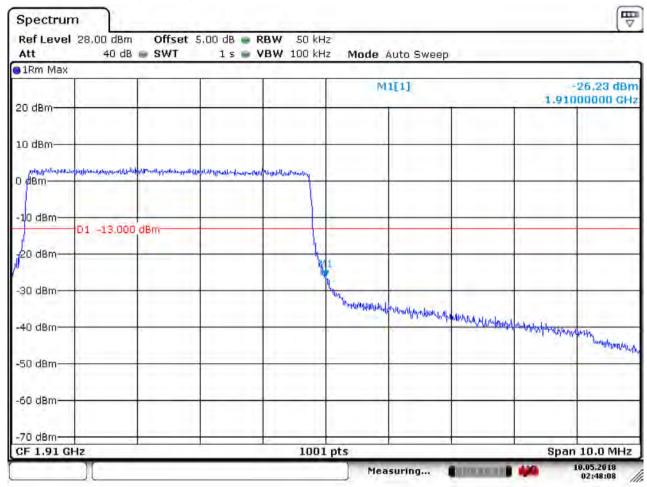
Date: 10.MAY.2018 02:46:40



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5.1.1.6.2.2 Test RB=25RB



Date: 10.MAY.2018 02:48:08

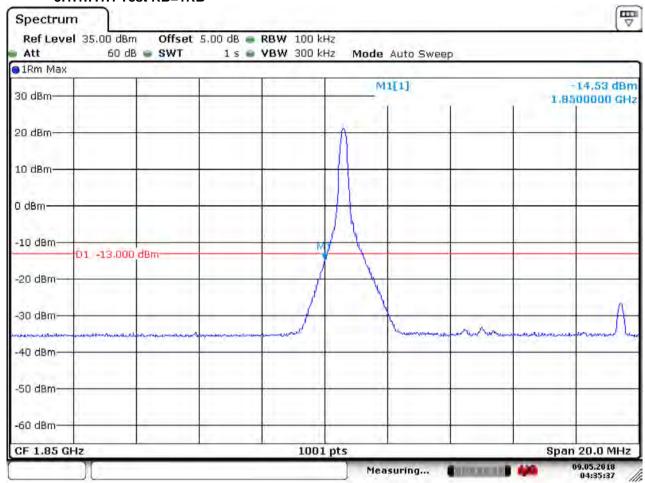


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5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



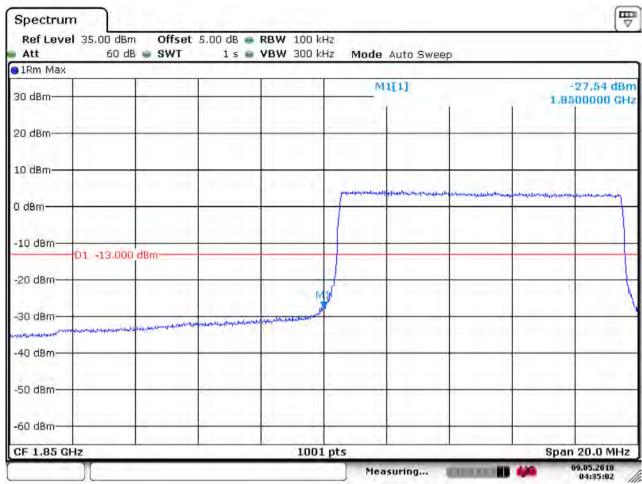
Date: 9.MAY.2018 04:35:37



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5.1.1.7.1.2 Test RB=50RB



Date: 9.MAY.2018 04:35:02

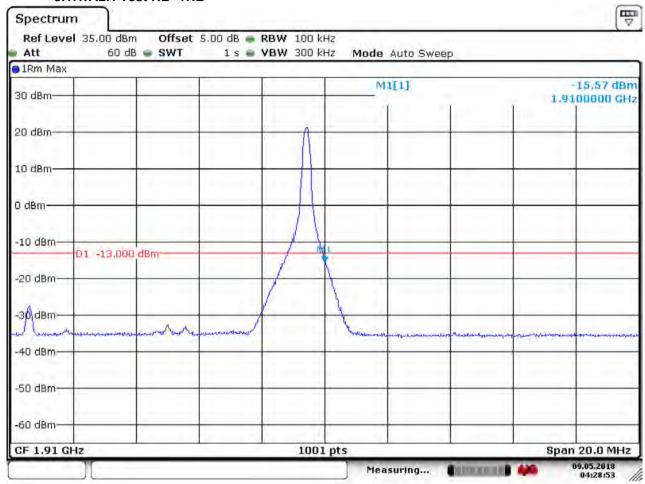


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

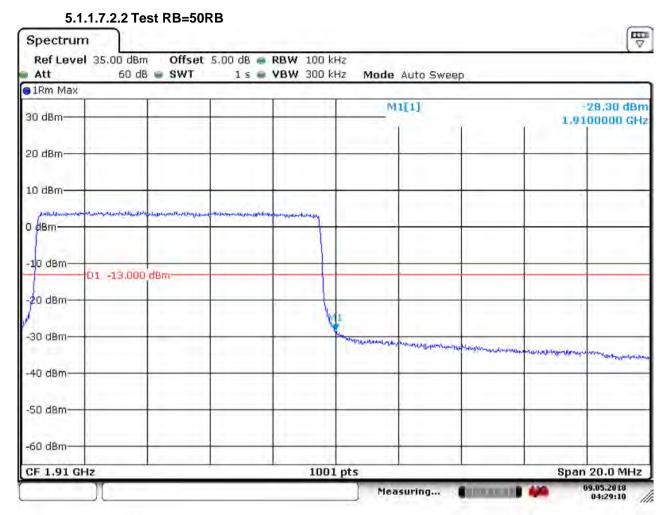


Date: 9.MAY.2018 04:28:54



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Date: 9.MAY.2018 04:29:11

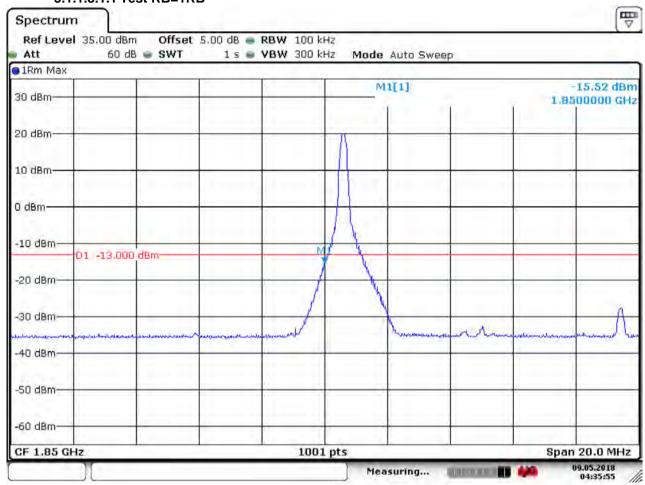


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5.1.1.8 Test Mode = LTE/TM2 10MHz 5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 9.MAY.2018 04:35:56



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5.1.1.8.1.2 Test RB=50RB



Date: 9.MAY.2018 04:36:15

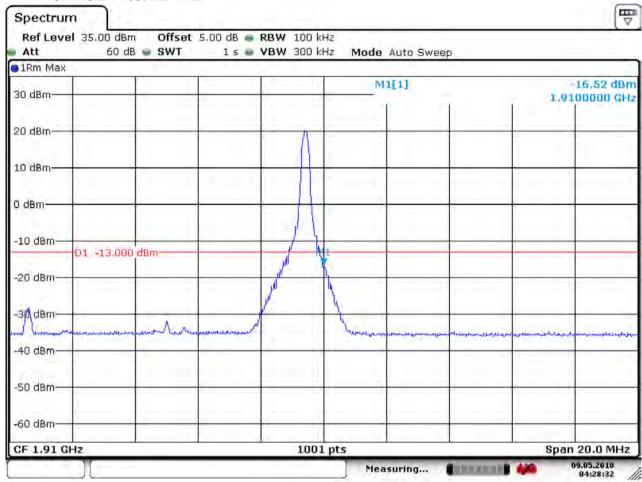


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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 9.MAY.2018 04:28:32



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5.1.1.8.2.2 Test RB=50RB



Date: 9.MAY.2018 04:27:44

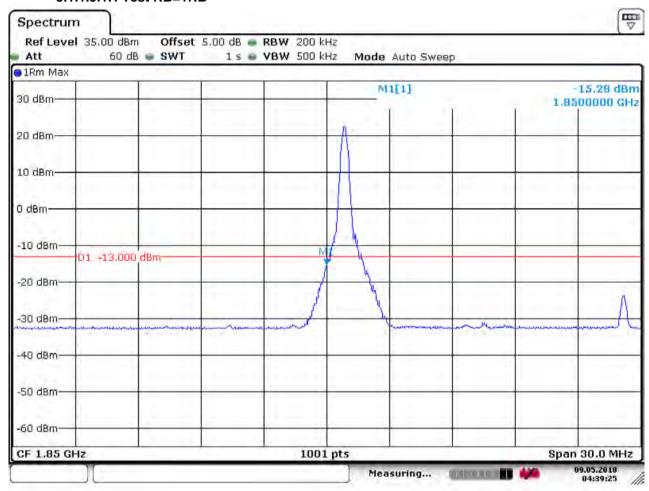


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5.1.1.9 Test Mode = LTE/TM1 15MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



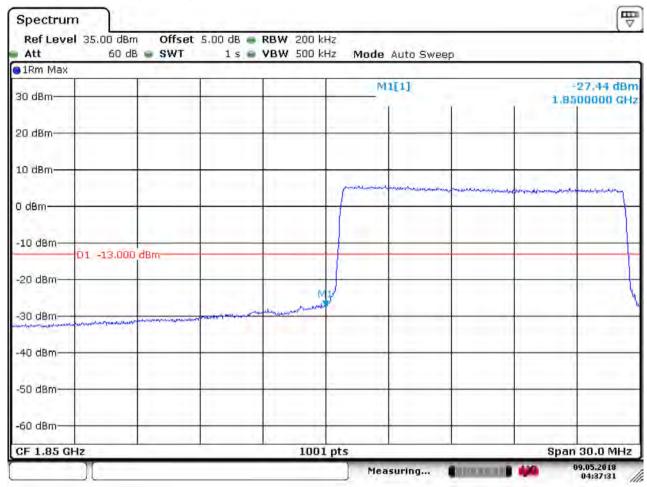
Date: 9.MAY.2018 04:39:25



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5.1.1.9.1.2 Test RB=75RB



Date: 9.MAY.2018 04:37:32

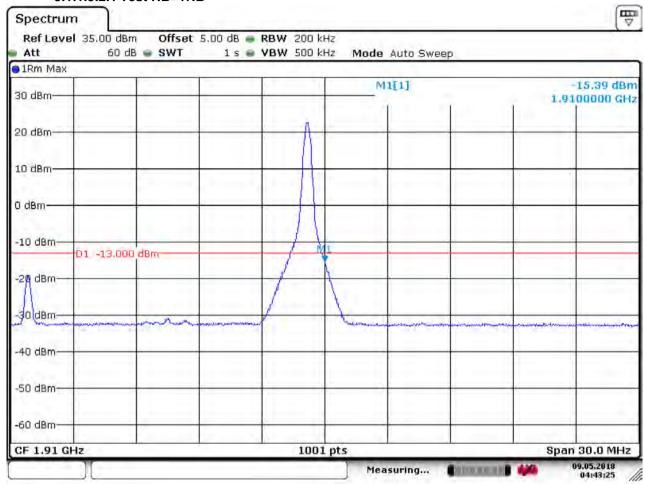


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5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB

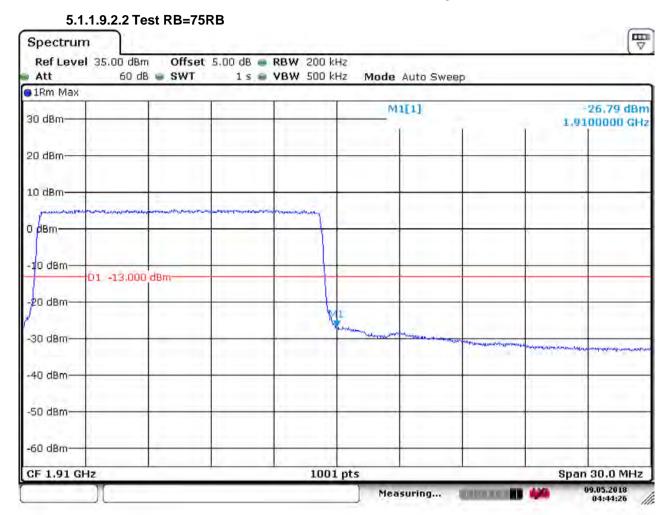


Date: 9.MAY.2018 04:43:25



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Date: 9.MAY.2018 04:44:26

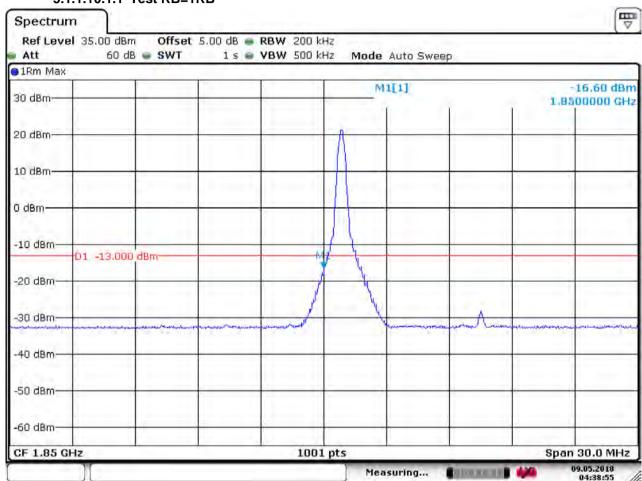


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5.1.1.10 Test Mode = LTE/TM2 15MHz 5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 9.MAY.2018 04:38:56



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5.1.1.10.1.2 Test RB=75RB



Date: 9.MAY.2018 04:38:00

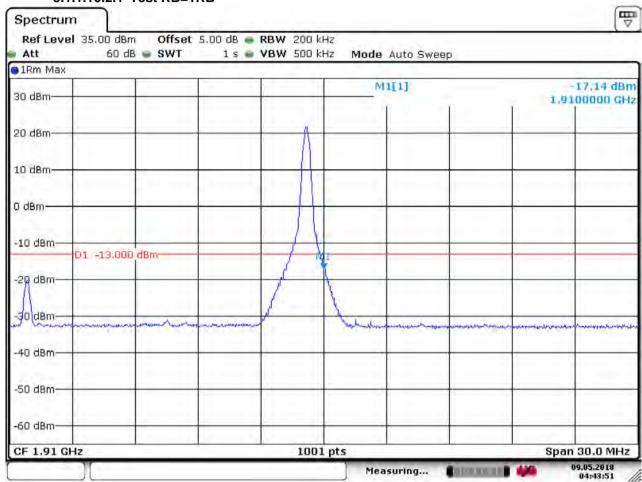


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5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 9.MAY.2018 04:43:52



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5.1.1.10.2.2 Test RB=75RB



Date: 9.MAY.2018 04:44:11

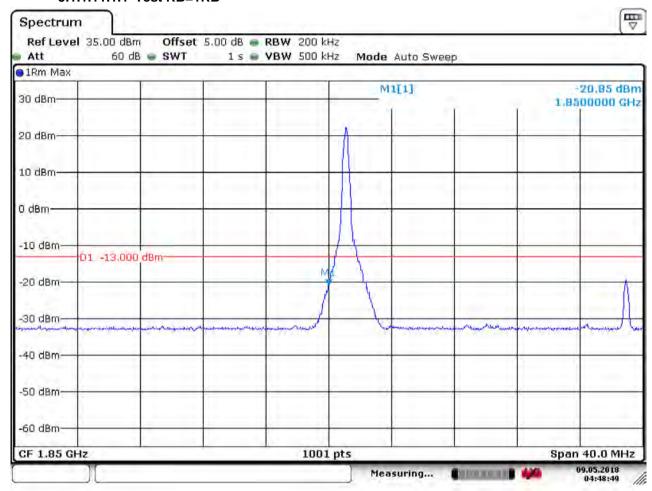


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5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 9.MAY.2018 04:48:49



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5.1.1.11.1.2 Test RB=100RB



Date: 9.MAY.2018 04:47:54

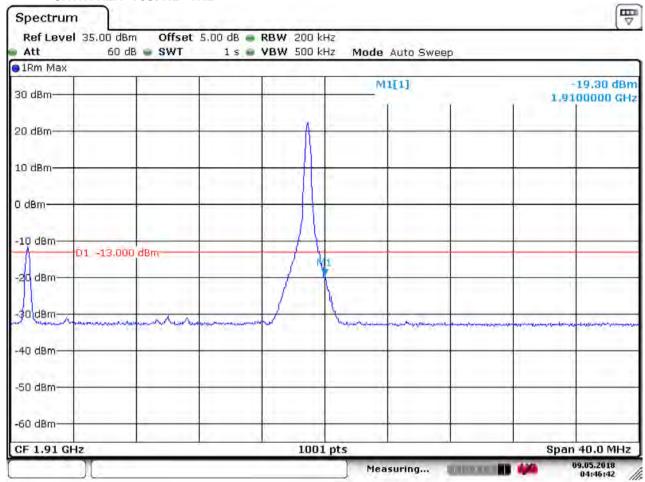


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5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB

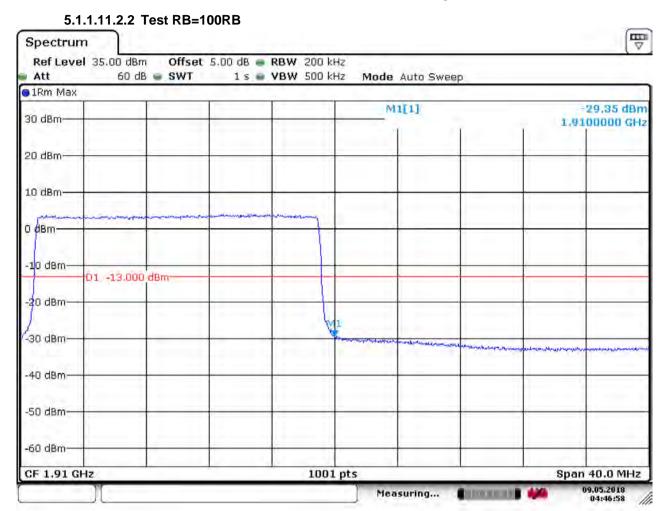


Date: 9.MAY.2018 04:46:42



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Date: 9.MAY.2018 04:46:58

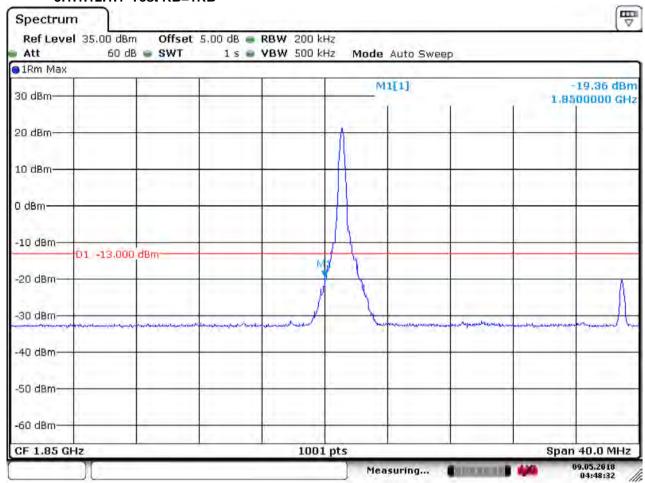


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5.1.1.12 Test Mode = LTE/TM2 20MHz 5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 9.MAY.2018 04:48:33



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5.1.1.12.1.2 Test RB=100RB



Date: 9.MAY.2018 04:48:14

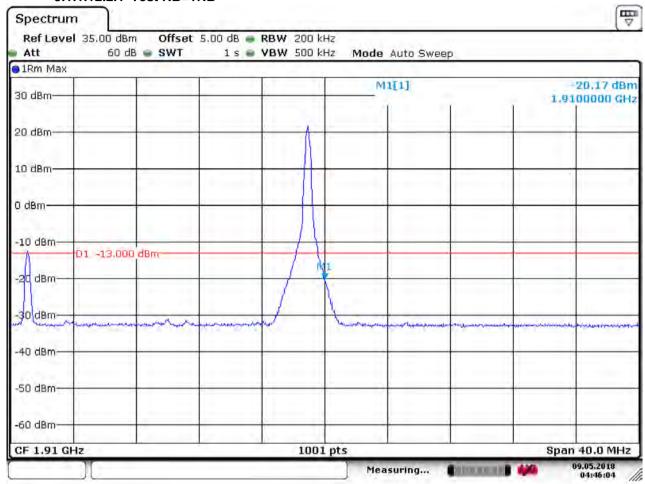


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5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 9.MAY.2018 04:46:04



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5.1.1.12.2.2 Test RB=100RB



Date: 9.MAY.2018 04:45:28



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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.

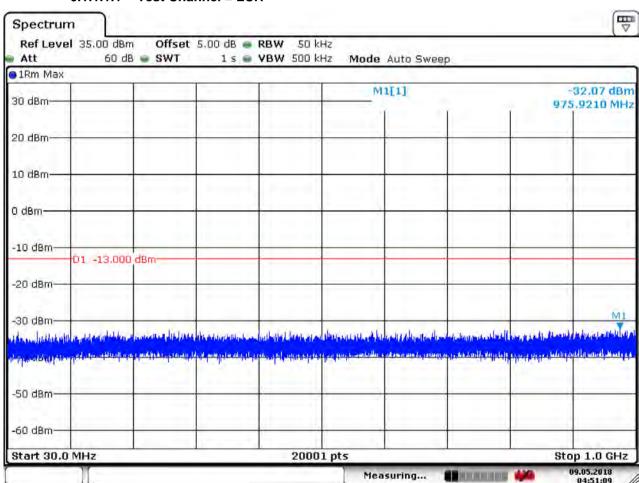
Part I - Test Plots

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

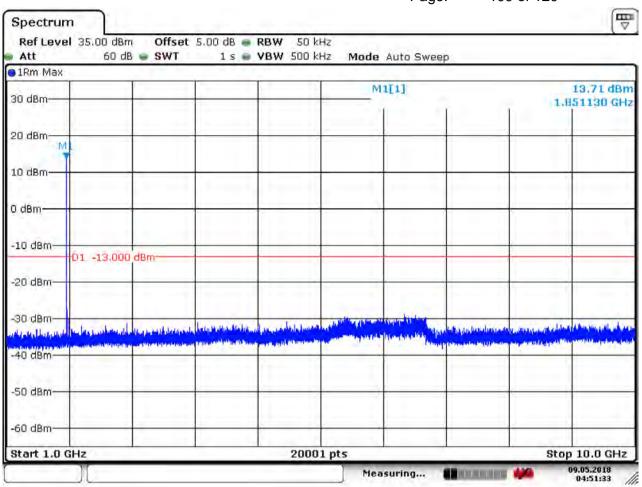


Date: 9.MAY.2018 04:51:10



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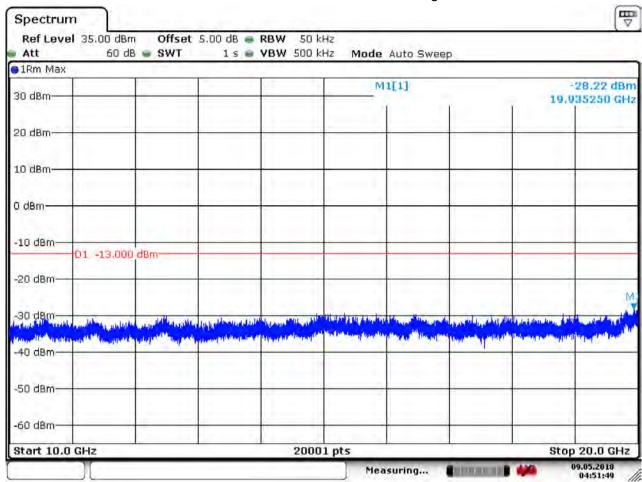


Date: 9.MAY.2018 04:51:33



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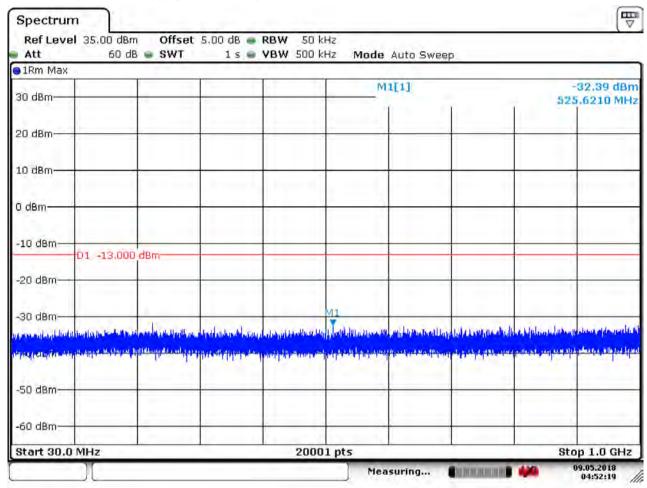
Date: 9.MAY.2018 04:51:50



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6.1.1.1.2 Test Channel = MCH

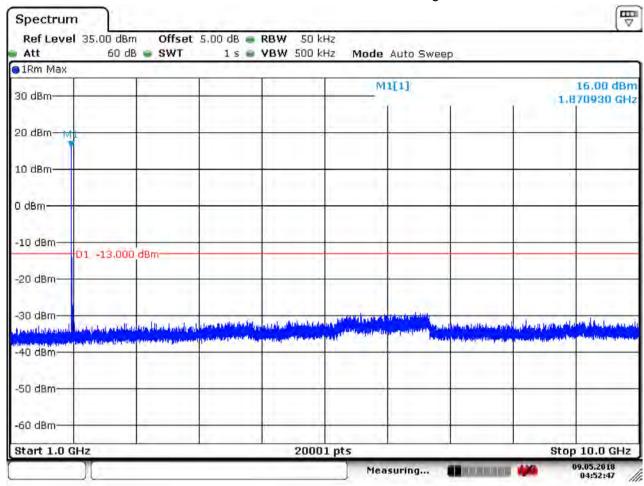


Date: 9.MAY.2018 04:52:19



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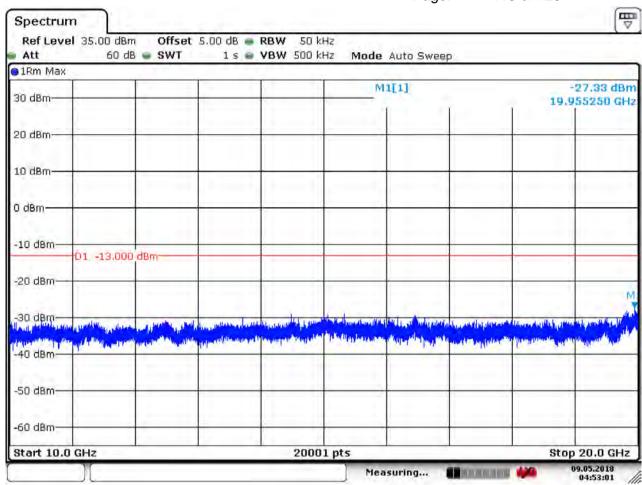


Date: 9.MAY.2018 04:52:47



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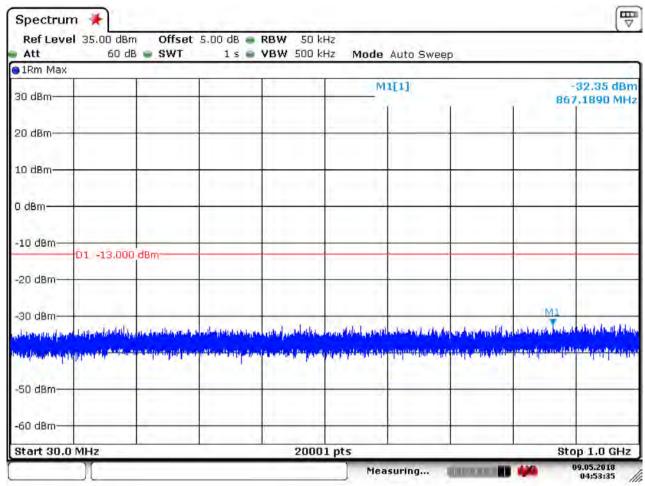
Date: 9.MAY.2018 04:53:01



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6.1.1.1.3 Test Channel = HCH

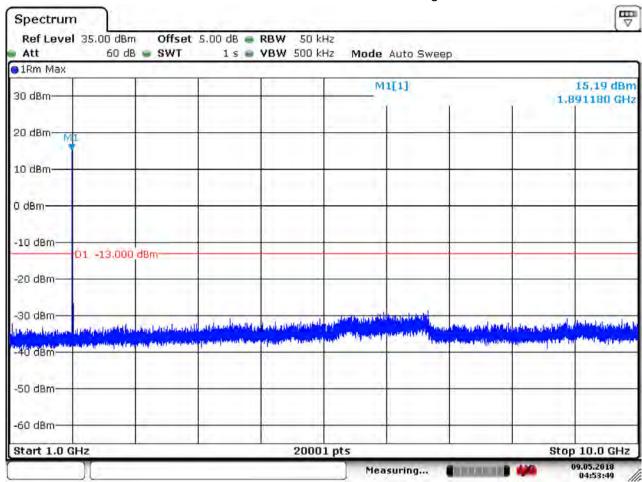


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7 Field Strength of Spurious Radiation

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

7.1.1.1.1 Test Chamer = LCH						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
64.400000	-80.76	-13.00	67.76	Vertical		
109.700000	-80.48	-13.00	67.48	Vertical		
3702.000000	-64.25	-13.00	51.25	Vertical		
5553.200000	-64.88	-13.00	51.88	Vertical		
7404.400000	-64.79	-13.00	51.79	Vertical		
9255.275000	-60.35	-13.00	47.35	Vertical		
56.200000	-78.21	-13.00	65.21	Horizontal		
182.150000	-82.40	-13.00	69.40	Horizontal		
3702.000000	-57.90	-13.00	44.90	Horizontal		
5553.200000	-66.33	-13.00	53.33	Horizontal		
7404.400000	-65.04	-13.00	52.04	Horizontal		
9255.600000	-55.84	-13.00	42.84	Horizontal		

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
65.100000	-81.14	-13.00	68.14	Vertical	
109.350000	-80.25	-13.00	67.25	Vertical	
266.450000	-84.79	-13.00	71.79	Vertical	
3741.975000	-66.89	-13.00	53.89	Vertical	
5613.325000	-66.32	-13.00	53.32	Vertical	
7484.025000	-65.09	-13.00	52.09	Vertical	
56.300000	-77.77	-13.00	64.77	Horizontal	
110.950000	-83.73	-13.00	70.73	Horizontal	
184.550000	-79.25	-13.00	66.25	Horizontal	
3741.975000	-60.92	-13.00	47.92	Horizontal	
6061.175000	-65.56	-13.00	52.56	Horizontal	
9355.375000	-63.06	-13.00	50.06	Horizontal	



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.000000	-81.51	-13.00	68.51	Vertical
110.200000	-80.07	-13.00	67.07	Vertical
352.100000	-86.04	-13.00	73.04	Vertical
3781.950000	-67.68	-13.00	54.68	Vertical
5673.125000	-63.82	-13.00	50.82	Vertical
9455.475000	-63.68	-13.00	50.68	Vertical
62.850000	-77.87	-13.00	64.87	Horizontal
182.050000	-82.76	-13.00	69.76	Horizontal
3781.950000	-64.63	-13.00	51.63	Horizontal
5673.125000	-65.34	-13.00	52.34	Horizontal
7564.625000	-65.58	-13.00	52.58	Horizontal
9455.475000	-59.31	-13.00	46.31	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 and all Bandwidth, but only the worst case data presented in this report.



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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
		LCH	TN	VL	-8.65	-0.00465	PASS
				VN	-1.29	-0.00069	PASS
				VH	9.03	0.00486	PASS
				VL	-6.64	-0.00353	PASS
	LTE/TM1 20MHz	MCH	TN	VN	9.68	0.00515	PASS
				VH	-2.75	-0.00146	PASS
		НСН	TN	VL	9.39	0.00494	PASS
				VN	3.13	0.00165	PASS
LTEband				VH	-2.18	-0.00115	PASS
2	LTE/TM2 20MHz	LCH	TN	VL	-7.77	-0.00418	PASS
				VN	-1.67	-0.00090	PASS
				VH	-2.82	-0.00151	PASS
		МСН	TN	VL	-5.11	-0.00272	PASS
				VN	-5.02	-0.00267	PASS
				VH	8.99	0.00478	PASS
		НСН	TN	VL	9.87	0.00520	PASS
				VN	9.05	0.00476	PASS
				VH	9.81	0.00517	PASS



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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			VN	-30	0.60	0.00032	PASS
				-20	5.01	0.00269	PASS
				-10	-6.58	-0.00354	PASS
				0	9.71	0.00522	PASS
		LCH		10	-1.04	-0.00056	PASS
				20	-2.26	-0.00121	PASS
				30	1.70	0.00092	PASS
				40	-2.87	-0.00154	PASS
				50	-4.20	-0.00226	PASS
				-30	-2.47	-0.00132	PASS
				-20	5.72	0.00304	PASS
	LTE/TM1 20MHz	МСН	VN	-10	9.49	0.00505	PASS
				0	3.72	0.00198	PASS
LTEband 2				10	9.13	0.00486	PASS
_				20	1.02	0.00054	PASS
				30	8.30	0.00442	PASS
				40	1.36	0.00073	PASS
				50	-8.61	-0.00458	PASS
		нсн		-30	-1.87	-0.00098	PASS
				-20	-7.48	-0.00394	PASS
				-10	-4.79	-0.00252	PASS
				0	-0.26	-0.00013	PASS
			VN	10	-9.99	-0.00526	PASS
				20	9.65	0.00508	PASS
				30	7.55	0.00397	PASS
				40	3.44	0.00181	PASS
				50	-8.06	-0.00424	PASS



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	Fage. 120 01 120						
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-1.20	-0.00065	PASS
				-20	-2.50	-0.00134	PASS
				-10	8.02	0.00431	PASS
				0	1.16	0.00062	PASS
		LCH	VN	10	-7.01	-0.00377	PASS
				20	-6.09	-0.00327	PASS
				30	-4.32	-0.00232	PASS
				40	9.45	0.00508	PASS
				50	-4.23	-0.00228	PASS
			VN	-30	8.75	0.00465	PASS
	LTE/TM2 20MHz			-20	-6.02	-0.00320	PASS
		МСН		-10	-7.32	-0.00390	PASS
				0	-1.14	-0.00061	PASS
LTEband 2				10	7.98	0.00424	PASS
				20	-9.57	-0.00509	PASS
				30	4.07	0.00216	PASS
				40	6.21	0.00331	PASS
				50	6.75	0.00359	PASS
		НСН	VN	-30	-4.01	-0.00211	PASS
				-20	-7.05	-0.00371	PASS
				-10	-3.20	-0.00169	PASS
				0	-5.00	-0.00263	PASS
				10	-3.40	-0.00179	PASS
				20	7.68	0.00404	PASS
				30	1.18	0.00062	PASS
				40	-1.95	-0.00102	PASS
				50	7.36	0.00387	PASS

The End