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Appendix B

E-UTRA Band7



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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)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	23.37	23.27	33.00	PASS
				RB1#13	23.43	23.33	33.00	PASS
				RB1#24	23.34	23.24	33.00	PASS
			LCH	RB12#0	22.44	22.34	33.00	PASS
				RB12#6	22.48	22.38	33.00	PASS
				RB12#13	22.49	22.39	33.00	PASS
			RB25#0	22.48	22.38	33.00	PASS	
		5M		RB1#0	23.25	23.15	33.00	PASS
			мсн	RB1#13	23.36	23.26	33.00	PASS
				RB1#24	23.31	23.21	33.00	PASS
BAND7	LTE/TM1			RB12#0	22.34	22.24	33.00	PASS
				RB12#6	22.42	22.32	33.00	PASS
				RB12#13	22.42	22.32	33.00	PASS
				RB25#0	22.44	22.34	33.00	PASS
				RB1#0	23.18	23.08	33.00	PASS
				RB1#13	23.31	23.21	33.00	PASS
				RB1#24	23.24	23.14	33.00	PASS
			НСН	RB12#0	22.28	22.18	33.00	PASS
				RB12#6	22.35	22.25	33.00	PASS
				RB12#13	22.36	22.26	33.00	PASS
				RB25#0	22.36	22.26	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	22.41	22.31	33.00	PASS
				RB1#13	22.47	22.37	33.00	PASS
				RB1#24	22.38	22.28	33.00	PASS
			LCH	RB12#0	21.33	21.23	33.00	PASS
				RB12#6	21.38	21.28	33.00	PASS
				RB12#13	21.41	21.31	33.00	PASS
			RB25#0	21.37	21.27	33.00	PASS	
		5M		RB1#0	22.37	22.27	33.00	PASS
			мсн	RB1#13	22.43	22.33	33.00	PASS
				RB1#24	22.38	22.28	33.00	PASS
BAND7	LTE/TM2			RB12#0	21.27	21.17	33.00	PASS
				RB12#6	21.34	21.24	33.00	PASS
				RB12#13	21.35	21.25	33.00	PASS
				RB25#0	21.31	21.21	33.00	PASS
				RB1#0	22.33	22.23	33.00	PASS
				RB1#13	22.40	22.30	33.00	PASS
				RB1#24	22.35	22.25	33.00	PASS
			HCH	RB12#0	21.23	21.13	33.00	PASS
				RB12#6	21.30	21.20	33.00	PASS
				RB12#13	21.30	21.20	33.00	PASS
				RB25#0	21.28	21.18	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	23.43	23.33	33.00	PASS
				RB1#25	23.53	23.43	33.00	PASS
				RB1#49	23.43	23.33	33.00	PASS
			LCH	RB25#0	22.47	22.37	33.00	PASS
				RB25#13	22.56	22.46	33.00	PASS
				RB25#25	22.60	22.50	33.00	PASS
		10M		RB50#0	22.53	22.43	33.00	PASS
				RB1#0	23.33	23.23	33.00	PASS
			МСН	RB1#25	23.46	23.36	33.00	PASS
				RB1#49	23.37	23.27	33.00	PASS
BAND7	LTE/TM1			RB25#0	22.41	22.31	33.00	PASS
				RB25#13	22.50	22.40	33.00	PASS
				RB25#25	22.58	22.48	33.00	PASS
				RB50#0	22.50	22.40	33.00	PASS
				RB1#0	23.35	23.25	33.00	PASS
				RB1#25	23.42	23.32	33.00	PASS
				RB1#49	23.34	23.24	33.00	PASS
			НСН	RB25#0	22.42	22.32	33.00	PASS
				RB25#13	22.45	22.35	33.00	PASS
				RB25#25	22.51	22.41	33.00	PASS
				RB50#0	22.51	22.41	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	22.48	22.38	33.00	PASS
				RB1#25	22.55	22.45	33.00	PASS
				RB1#49	22.52	22.42	33.00	PASS
			LCH	RB25#0	21.38	21.28	33.00	PASS
				RB25#13	21.43	21.33	33.00	PASS
				RB25#25	21.52	21.42	33.00	PASS
				RB50#0	21.44	21.34	33.00	PASS
			RB1#0	22.44	22.34	33.00	PASS	
		10M	МСН	RB1#25	22.57	22.47	33.00	PASS
				RB1#49	22.46	22.36	33.00	PASS
BAND7	LTE/TM2			RB25#0	21.32	21.22	33.00	PASS
				RB25#13	21.39	21.29	33.00	PASS
				RB25#25	21.48	21.38	33.00	PASS
				RB50#0	21.41	21.31	33.00	PASS
				RB1#0	22.57	22.47	33.00	PASS
				RB1#25	22.56	22.46	33.00	PASS
				RB1#49	22.46	22.38	33.00	PASS
			НСН	RB25#0	21.38	22.45	33.00	PASS
				RB25#13	21.37	22.42	33.00	PASS
				RB25#25	21.37	21.28	33.00	PASS
				RB50#0	21.37	21.33	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	23.37	23.27	33.00	PASS
				RB1#38	23.44	23.34	33.00	PASS
				RB1#74	23.34	23.24	33.00	PASS
			LCH	RB36#0	22.44	22.34	33.00	PASS
				RB36#18	22.50	22.40	33.00	PASS
				RB36#39	22.51	22.41	33.00	PASS
		15M		RB75#0	22.51	22.41	33.00	PASS
			МСН	RB1#0	23.26	23.16	33.00	PASS
				RB1#38	23.40	23.30	33.00	PASS
				RB1#74	23.33	23.23	33.00	PASS
BAND7	LTE/TM1			RB36#0	22.37	22.27	33.00	PASS
				RB36#18	22.45	22.35	33.00	PASS
				RB36#39	22.52	22.42	33.00	PASS
				RB75#0	22.48	22.38	33.00	PASS
				RB1#0	23.22	23.12	33.00	PASS
				RB1#38	23.36	23.26	33.00	PASS
				RB1#74	23.31	23.21	33.00	PASS
			HCH	RB36#0	22.41	22.31	33.00	PASS
				RB36#18	22.40	22.30	33.00	PASS
				RB36#39	22.45	22.35	33.00	PASS
				RB75#0	22.46	22.36	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	22.41	22.31	33.00	PASS
				RB1#38	22.50	22.40	33.00	PASS
				RB1#74	22.52	22.42	33.00	PASS
			LCH	RB36#0	21.35	21.25	33.00	PASS
				RB36#18	21.43	21.33	33.00	PASS
				RB36#39	21.44	21.34	33.00	PASS
			RB75#0	21.42	21.32	33.00	PASS	
			RB1#0	22.39	22.29	33.00	PASS	
		15M	МСН	RB1#38	22.48	22.38	33.00	PASS
				RB1#74	22.39	22.29	33.00	PASS
BAND7	LTE/TM2			RB36#0	21.31	21.21	33.00	PASS
				RB36#18	21.36	21.26	33.00	PASS
				RB36#39	21.43	21.33	33.00	PASS
				RB75#0	21.37	21.27	33.00	PASS
				RB1#0	22.50	22.40	33.00	PASS
				RB1#38	22.56	22.46	33.00	PASS
				RB1#74	22.40	22.30	33.00	PASS
			HCH	RB36#0	21.41	21.31	33.00	PASS
				RB36#18	21.36	21.26	33.00	PASS
				RB36#39	21.42	21.32	33.00	PASS
				RB75#0	21.41	21.31	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	23.17	23.07	33.00	PASS
				RB1#50	23.49	23.39	33.00	PASS
				RB1#99	23.20	23.10	33.00	PASS
			LCH	RB50#0	22.41	22.31	33.00	PASS
				RB50#25	22.54	22.44	33.00	PASS
				RB50#50	22.50	22.40	33.00	PASS
		20M		RB100#0	22.51	22.41	33.00	PASS
				RB1#0	23.05	22.95	33.00	PASS
			MCH	RB1#50	23.43	23.33	33.00	PASS
				RB1#99	23.16	23.06	33.00	PASS
BAND7	LTE/TM1			RB50#0	22.35	22.25	33.00	PASS
				RB50#25	22.47	22.37	33.00	PASS
				RB50#50	22.44	22.34	33.00	PASS
				RB100#0	22.47	22.37	33.00	PASS
				RB1#0	23.03	22.93	33.00	PASS
				RB1#50	23.45	23.35	33.00	PASS
				RB1#99	23.14	23.04	33.00	PASS
			НСН	RB50#0	22.51	22.41	33.00	PASS
				RB50#25	22.52	22.42	33.00	PASS
				RB50#50	22.50	22.40	33.00	PASS
			RB100#0	22.46	22.36	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	22.20	22.10	33.00	PASS	
				RB1#50	22.57	22.47	33.00	PASS	
					RB1#99	22.39	22.29	33.00	PASS
			LCH	RB50#0	21.28	21.18	33.00	PASS	
				RB50#25	21.44	21.34	33.00	PASS	
				RB50#50	21.42	21.32	33.00	PASS	
				RB100#0	21.32	21.22	33.00	PASS	
				RB1#0	22.22	22.12	33.00	PASS	
			МСН	RB1#50	22.49	22.39	33.00	PASS	
				RB1#99	22.25	22.15	33.00	PASS	
BAND7	LTE/TM2	20M		RB50#0	21.27	21.17	33.00	PASS	
				RB50#25	21.36	21.26	33.00	PASS	
				RB50#50	22.53	22.43	33.00	PASS	
				RB100#0	21.41	21.31	33.00	PASS	
				RB1#0	22.27	22.17	33.00	PASS	
				RB1#50	22.65	22.55	33.00	PASS	
				RB1#99	22.27	22.17	33.00	PASS	
			НСН	RB50#0	21.47	21.37	33.00	PASS	
				RB50#25	21.39	21.29	33.00	PASS	
				RB50#50	21.45	21.35	33.00	PASS	
				RB100#0	21.43	21.33	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
		LCH	4.61	13	PASS
	TM1/20M	MCH	4.81	13	PASS
Dond7		HCH	5.16	13	PASS
Band7	TM2/20M	LCH	5.54	13	PASS
		MCH	5.71	13	PASS
		HCH	6.12	13	PASS

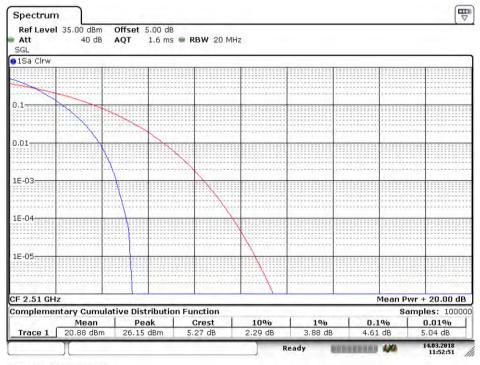
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

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

2.1.1.1.1 Test Channel = LCH



Date: 14.MAR.2018 11:52:52



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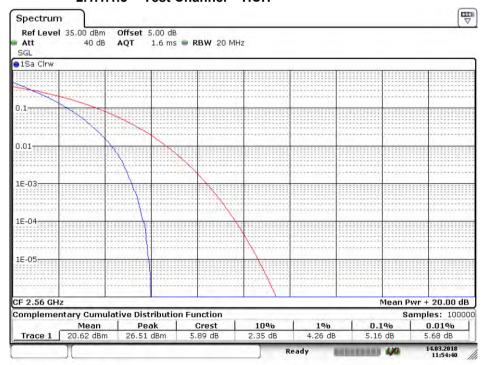
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2.1.1.1.2 Test Channel = MCH



Date: 14.MAR.2018 11:53:43

2.1.1.1.3 Test Channel = HCH



Date: 14.MAR.2018 11:54:40



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

2.1.1.2.1 Test Channel = LCH



Date: 14.MAR.2018 11:52:36

2.1.1.2.2 **Test Channel = MCH**



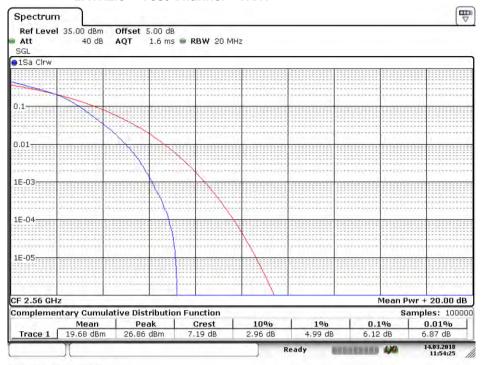
Date: 14.MAR.2018 11:54:04



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2.1.1.2.3 Test Channel = HCH



Date: 14.MAR.2018 11:54:25



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3 Modulation Characteristics

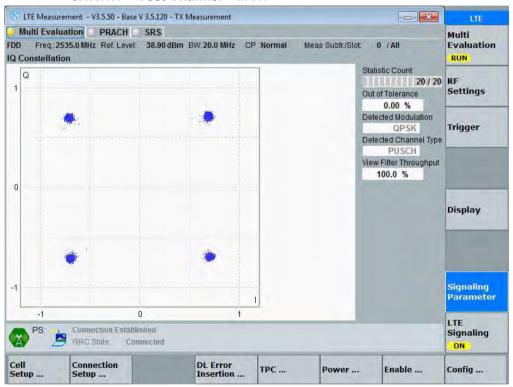
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



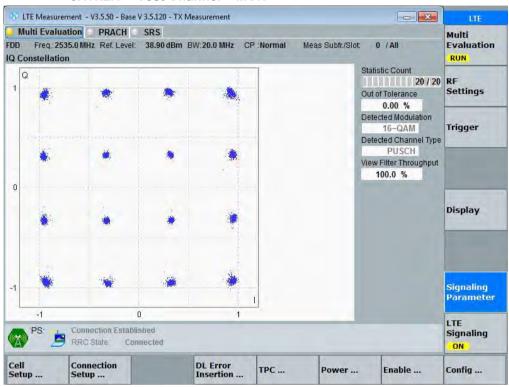


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3.1.1.2 Test Mode = LTE /TM2 20MHz

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	4.48	5.05	PASS
	TM1/ 5MHz	MCH	4.46	5.06	PASS
		HCH	4.48	5.07	PASS
		LCH	4.48	5.01	PASS
	TM2/ 5MHz	MCH	4.40	5.05	PASS
		HCH	4.47	4.98	PASS
		LCH	8.95	9.97	PASS
	TM1/10MHz	MCH	8.93	9.83	PASS
		HCH	8.97	9.97	PASS
		LCH	8.95	9.89	PASS
	TM2/ 10MHz	MCH	8.95	9.93	PASS
Donal 7		HCH	8.93	9.69	PASS
Band7		LCH	13.51	15.13	PASS
	TM1/ 15MHz	MCH	13.57	15.07	PASS
		HCH	13.51	15.19	PASS
		LCH	13.48	15.07	PASS
	TM2/ 15MHz	MCH	13.51	15.07	PASS
		HCH	13.51	15.16	PASS
		LCH	17.94	19.62	PASS
	TM1/ 20MHz	MCH	17.91	19.25	PASS
		HCH	17.98	19.50	PASS
		LCH	17.90	19.58	PASS
	TM2/ 20MHz	MCH	17.94	19.74	PASS
		HCH	17.98	19.66	PASS



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Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



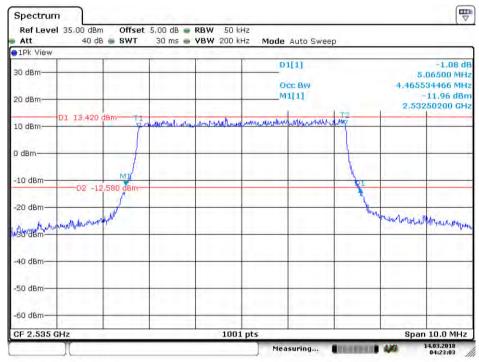
Date: 14.MAR.2018 04:15:49



Report No.: SZEM180200119802

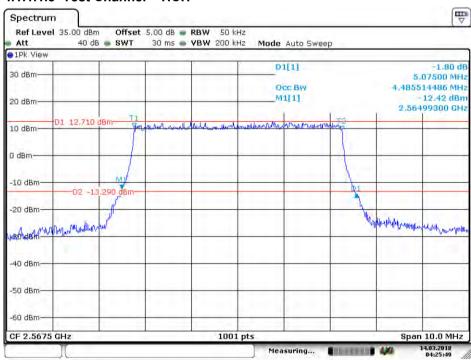
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4.1.1.1.2 Test Channel = MCH



Date: 14.MAR.2018 04:23:04

4.1.1.1.3 Test Channel = HCH



Date: 14.MAR.2018 04:25:49

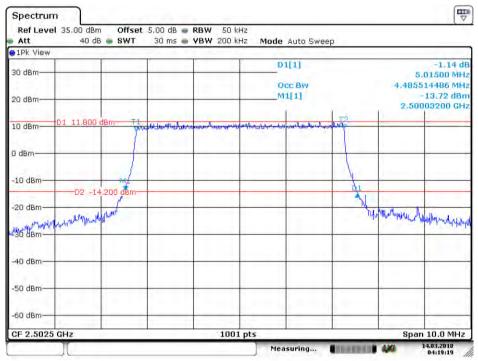


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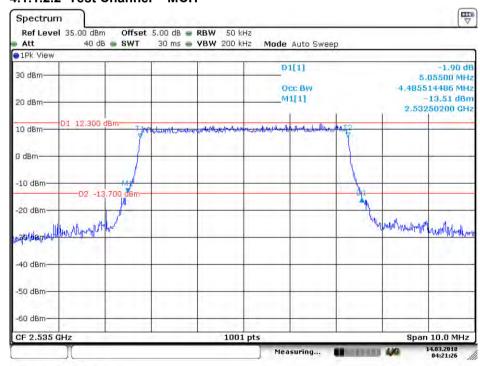
4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH



Date: 14.MAR.2018 04:19:20

4.1.1.2.2 Test Channel = MCH



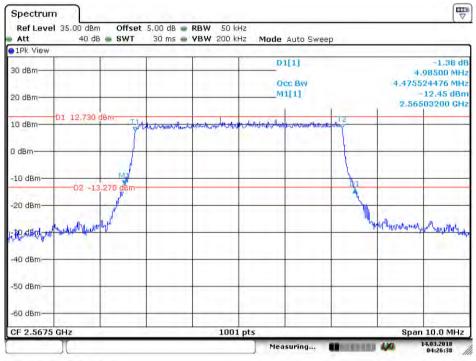
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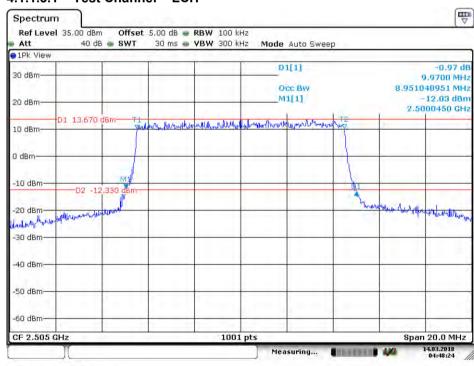
4.1.1.2.3 Test Channel = HCH



Date: 14.MAR.2018 04:26:38

4.1.1.3 Test Mode = LTE/TM1 10MHz

4.1.1.3.1 Test Channel = LCH



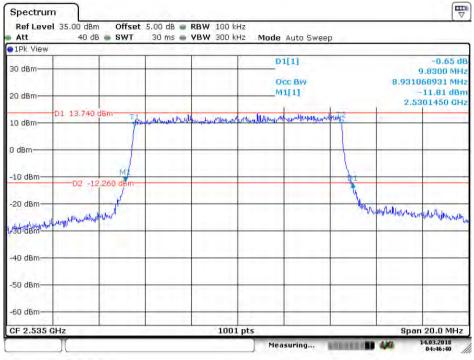
Date: 14.MAR.2018 04:48:24



Report No.: SZEM180200119802

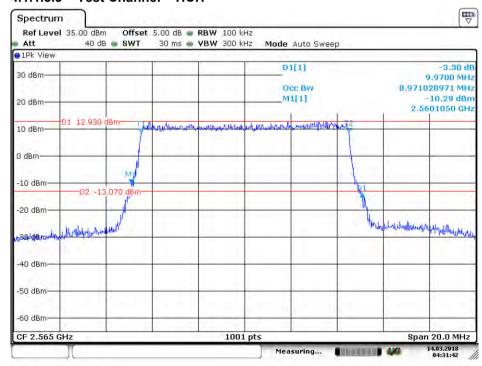
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4.1.1.3.2 Test Channel = MCH



Date: 14.MAR.2018 04:46:41

4.1.1.3.3 Test Channel = HCH



Date: 14.MAR.2018 04:31:42

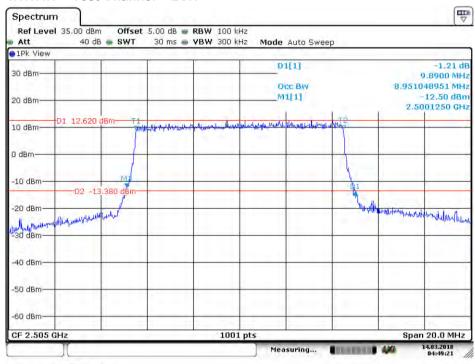


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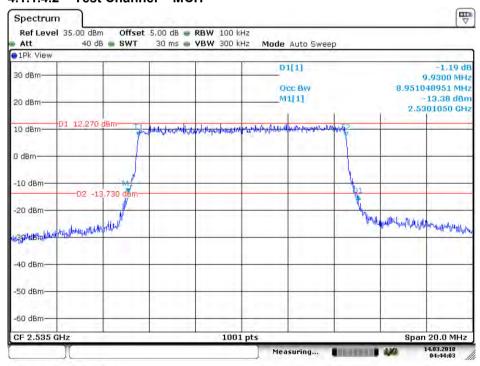
4.1.1.4 Test Mode = LTE/TM2 10MHz

4.1.1.4.1 Test Channel = LCH



Date: 14.MAR.2018 04:49:22

4.1.1.4.2 Test Channel = MCH



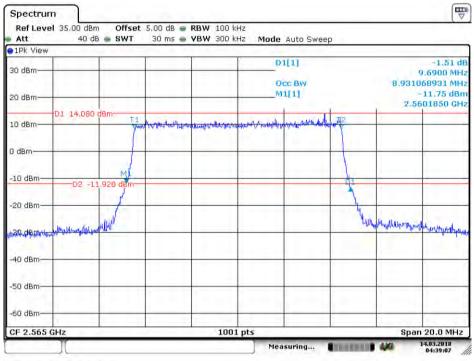
Date: 14.MAR.2018 04.44.03



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4.1.1.4.3 Test Channel = HCH



Date: 14.MAR.2018 04:39:07

4.1.1.5 Test Mode = LTE/TM1 15MHz

4.1.1.5.1 Test Channel = LCH



Date: 14.MAR.2018 04:52:15

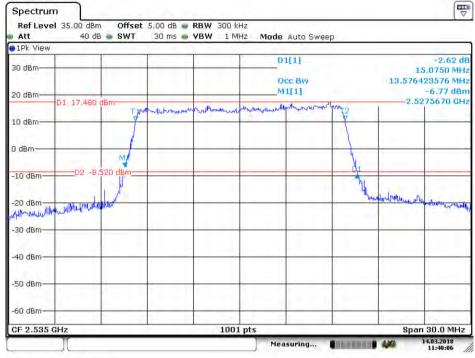
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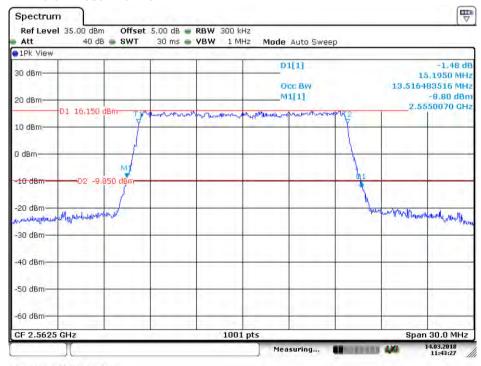
Page: 25 of 60

4.1.1.5.2 Test Channel = MCH



Date: 14.MAR.2018 11.40:06

4.1.1.5.3 Test Channel = HCH



Date: 14.MAR.2018 11:43:28

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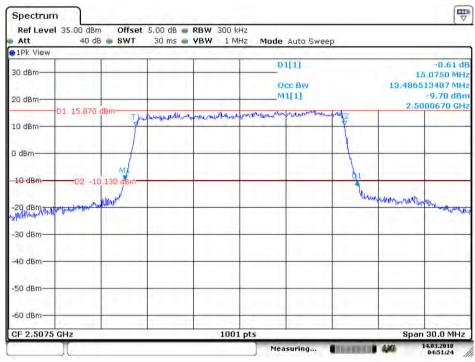


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4.1.1.6 Test Mode = LTE/TM2 15MHz

4.1.1.6.1 Test Channel = LCH



Date: 14.MAR.2018 04:51:24

4.1.1.6.2 Test Channel = MCH



Date: 14.MAR.2018 11:41:11

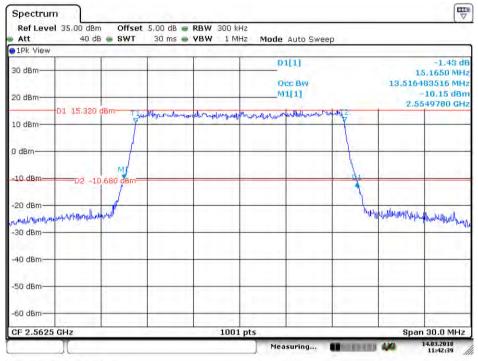
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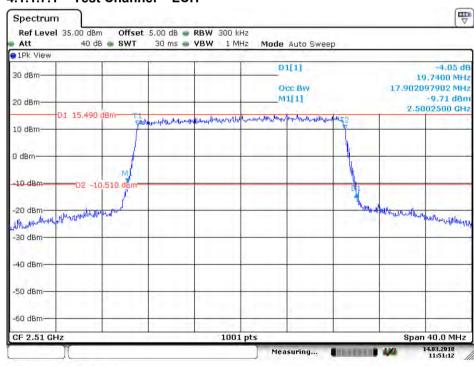
4.1.1.6.3 Test Channel = HCH



Date: 14.MAR.2018 11:42:39

4.1.1.7 Test Mode = LTE/TM1 20MHz

4.1.1.7.1 Test Channel = LCH



Date: 14.MAR.2018 11:51:13

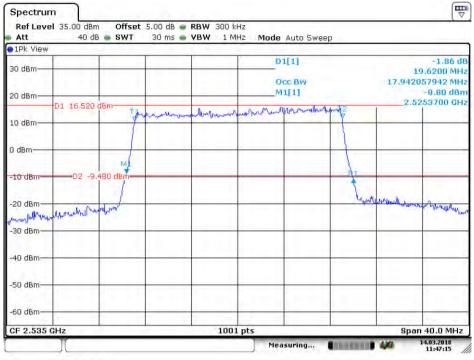
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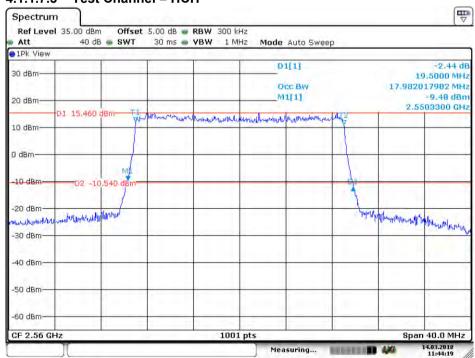
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4.1.1.7.2 Test Channel = MCH



Date: 14.MAR.2018 11:47:15

4.1.1.7.3 Test Channel = HCH



Date: 14.MAR.2018 11:44:19

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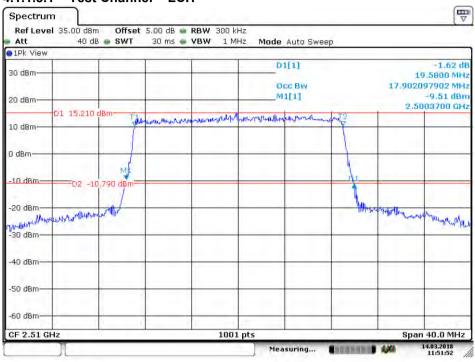


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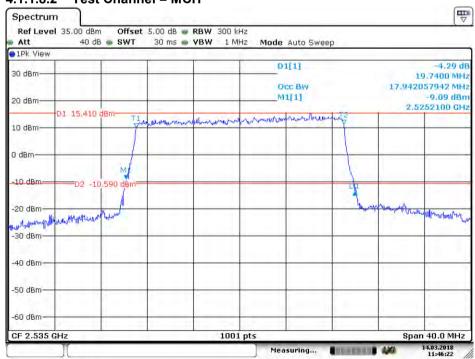
4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.1 Test Channel = LCH



Date: 14.MAR.2018 11:51:52

4.1.1.8.2 Test Channel = MCH



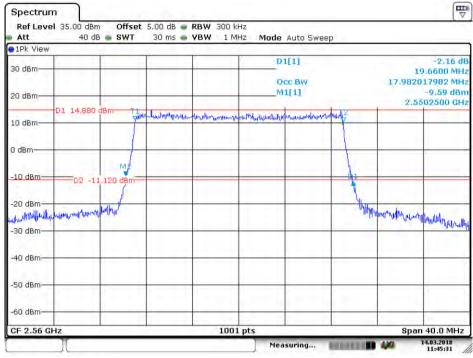
Date: 14.MAR.2018 11:46:22



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4.1.1.8.3 Test Channel = HCH



Date: 14.MAR.2018 11:45:32



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5 Band Edges Compliance

Part I - Test Plots

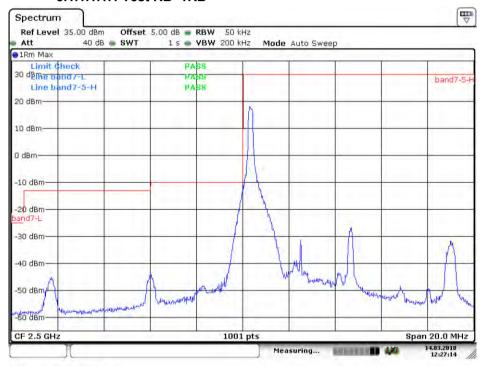
5.1 For LTE

5.1.1 Test Band = LTE band7

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1 Test RB=1RB



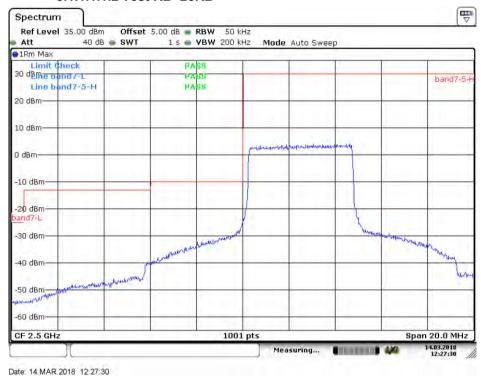
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Report No.: SZEM180200119802

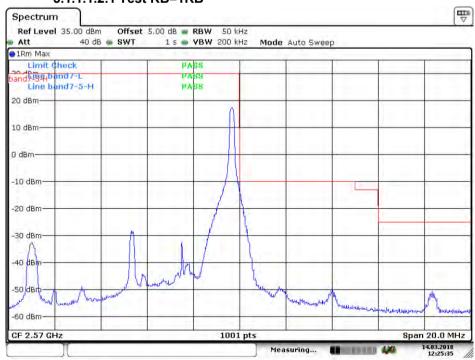
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5.1.1.1.1.2 Test RB=25RB



5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



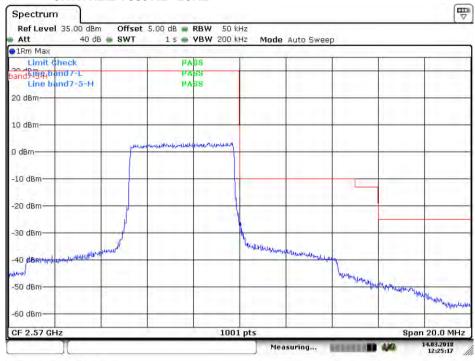
Date: 14.MAR.2018 12:25:36



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5.1.1.1.2.2 Test RB=25RB

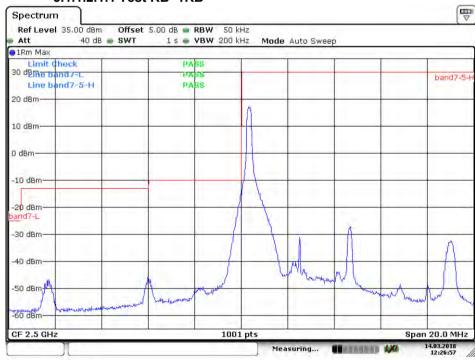


Date: 14.MAR.2018 12:25:17

5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



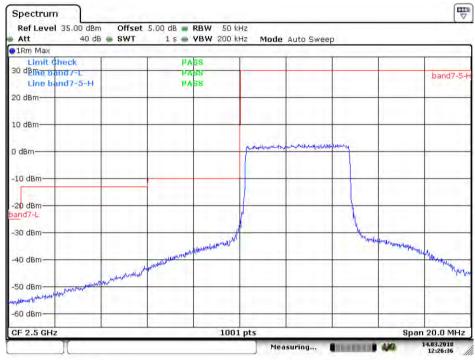
Date: 14.MAR.2018 12:26:58



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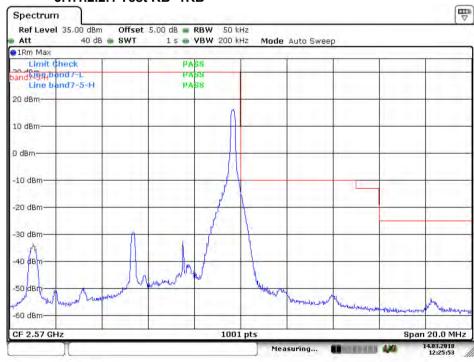
5.1.1.2.1.2 Test RB=25RB



Date: 14.MAR.2018 12:26:37

5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



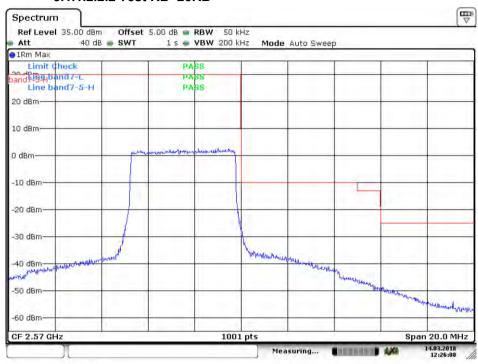
Date: 14.MAR.2018 12:25:53



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5.1.1.2.2.2 Test RB=25RB



Date: 14.MAR.2018 12:26:08



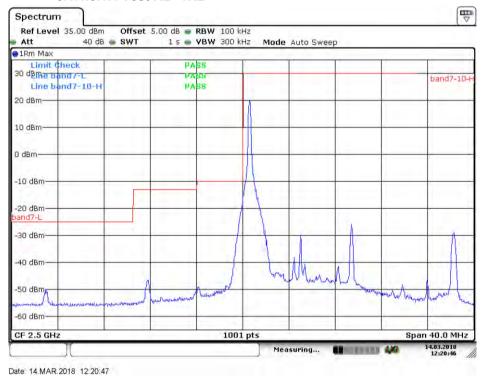
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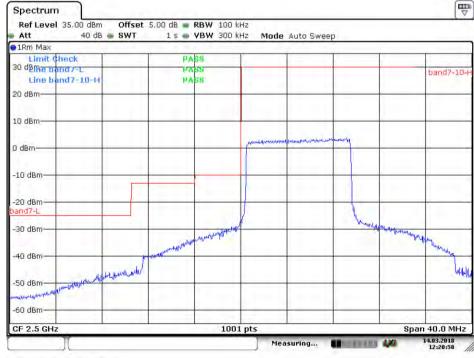
5.1.1.3 Test Mode = LTE/TM1 10MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



5.1.1.3.1.2 Test RB=50RB



Date: 14.MAR.2018 12:20:58

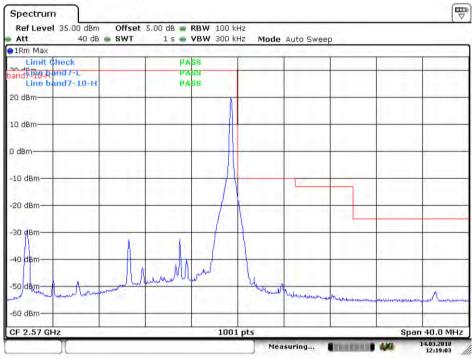


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



Date: 14.MAR.2018 12:19:03

5.1.1.3.2.2 Test RB=50RB



Date: 14.MAR.2018 12:18:41

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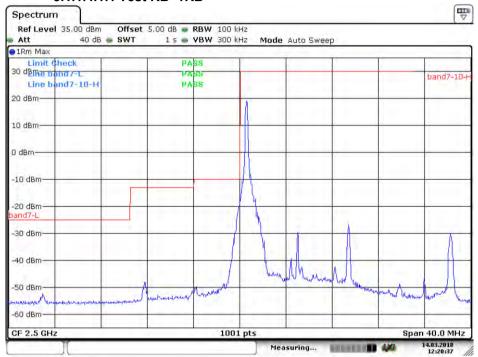
Report No.: SZEM180200119802

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5.1.1.4 Test Mode = LTE/TM2 10MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



Date: 14.MAR.2018 12:20:38

5.1.1.4.1.2 Test RB=50RB



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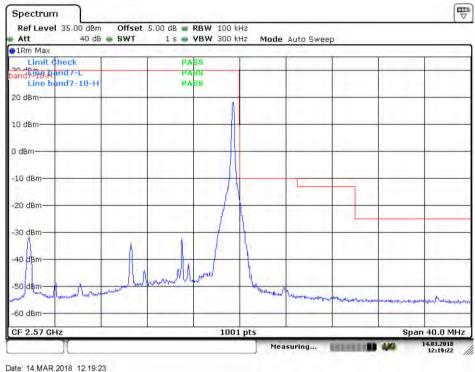


Report No.: SZEM180200119802

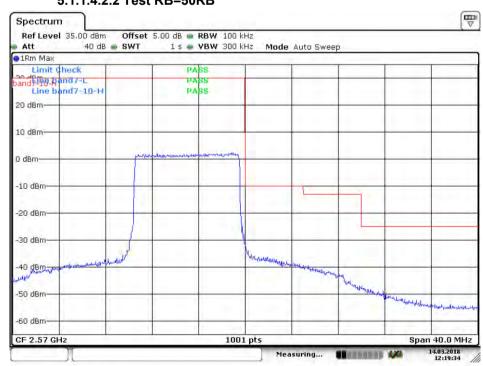
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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



5.1.1.4.2.2 Test RB=50RB



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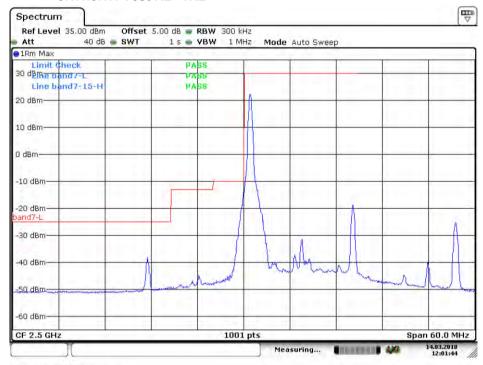
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5.1.1.5 Test Mode = LTE/TM1 15MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 14.MAR.2018 12:01:44

5.1.1.5.1.2 Test RB=75RB



Date: 14.MAR.2018 12:01:12

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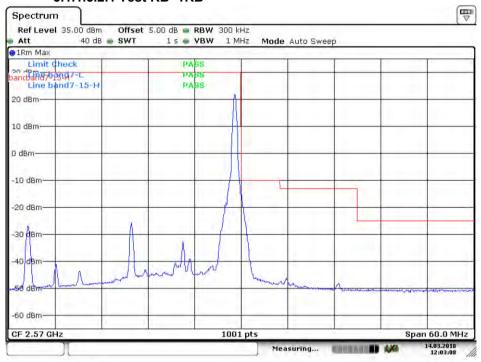


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 14.MAR.2018 12:03:08

5.1.1.5.2.2 Test RB=75RB



Date: 14.MAR.2018 12:03:22

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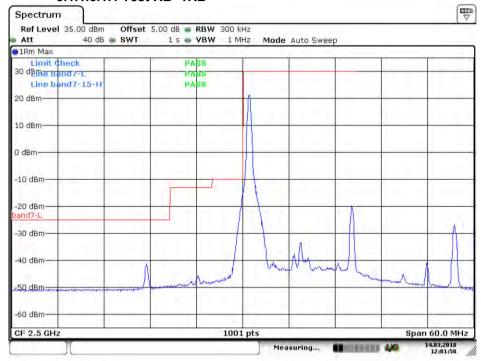
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5.1.1.6 Test Mode = LTE/TM2 15MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 14.MAR.2018 12:01:59

5.1.1.6.1.2 Test RB=75RB



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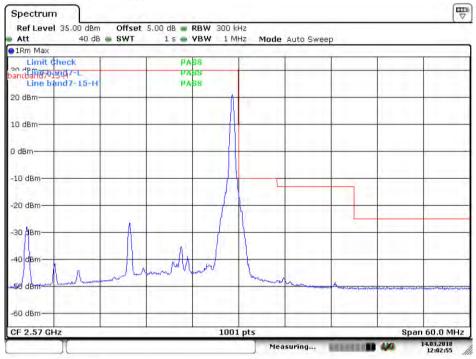


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



Date: 14.MAR.2018 12:02:55

5.1.1.6.2.2 Test RB=75RB



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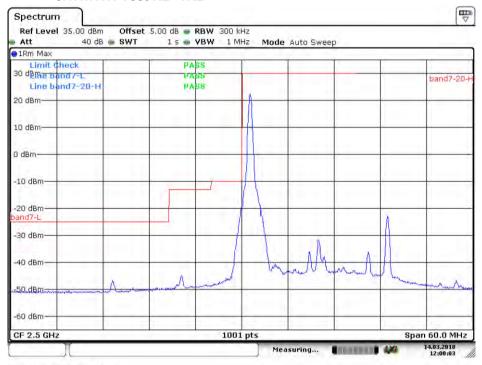
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5.1.1.7 Test Mode = LTE/TM1 20MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 14.MAR.2018 12:00:04

5.1.1.7.1.2 Test RB=100RB



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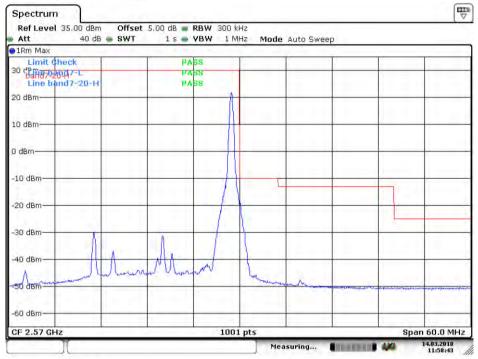


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 14.MAR.2018 11.58:43

5.1.1.7.2.2 Test RB=100RB



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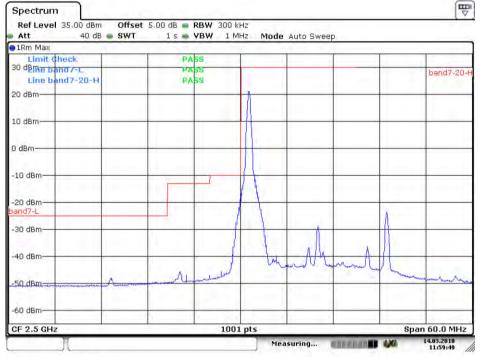
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5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 14,MAR.2018 11:59:49

5.1.1.8.1.2 Test RB=100RB



Date: 14.MAR.2018 11:59:28

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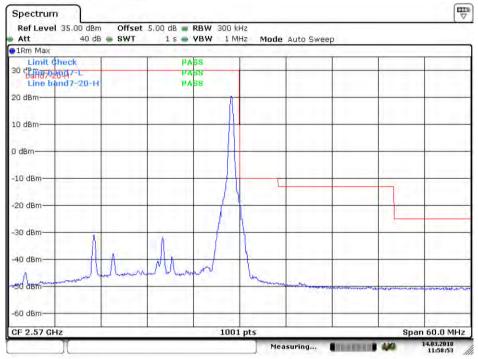


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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 14.MAR.2018 11.58:54

5.1.1.8.2.2 Test RB=100RB



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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 = 4 * (Span / RBW) with k = 4 * (Span / RBW)

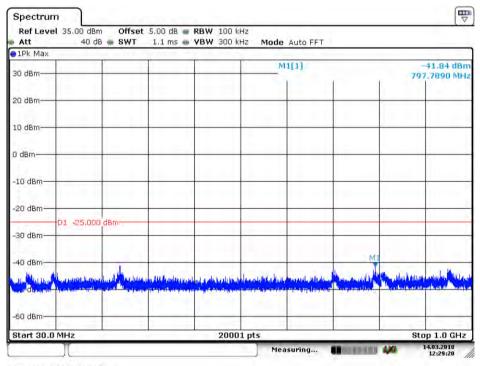
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band7

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

6.1.1.1.1 Test Channel = LCH

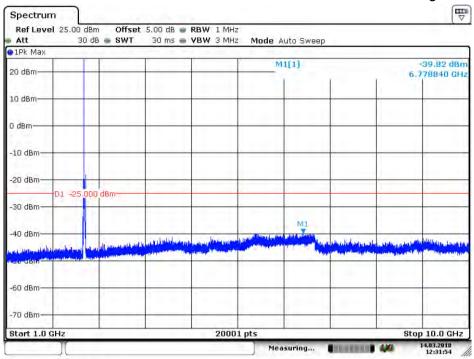


Date: 14.MAR.2018 12:29:21

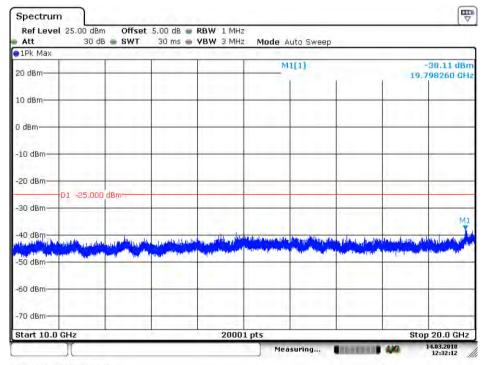


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Date: 14.MAR.2018 12:31:54

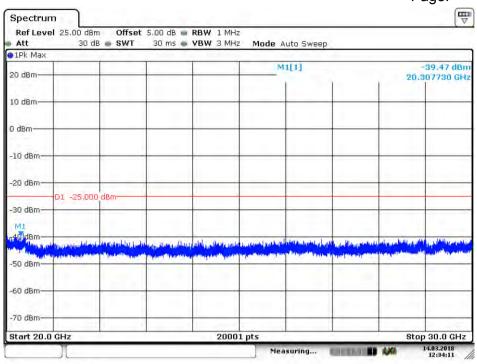


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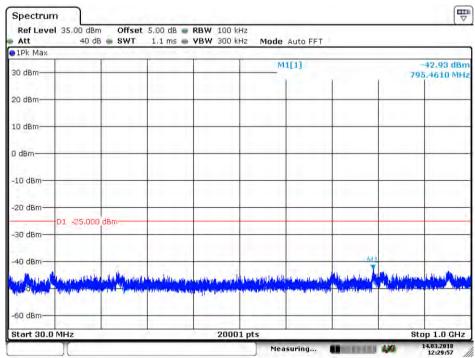
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Date: 14.MAR.2018 12:34:12

6.1.1.1.2 Test Channel = MCH



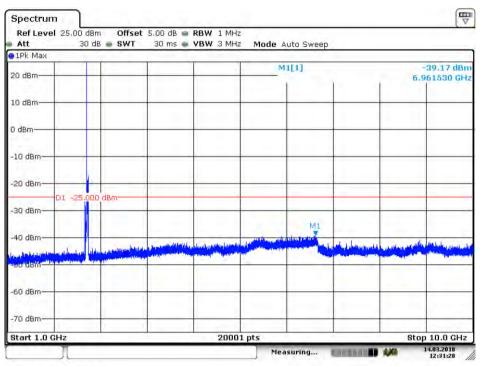
Date: 14.MAR.2018 12:29:57

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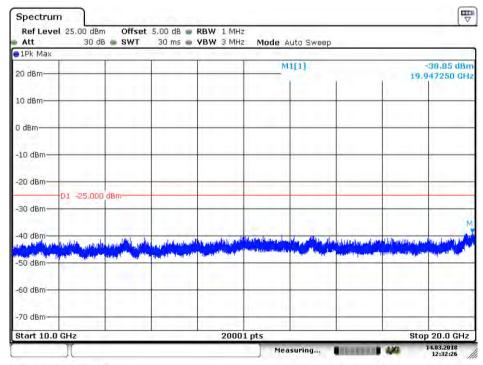


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Date: 14.MAR.2018 12:31:29

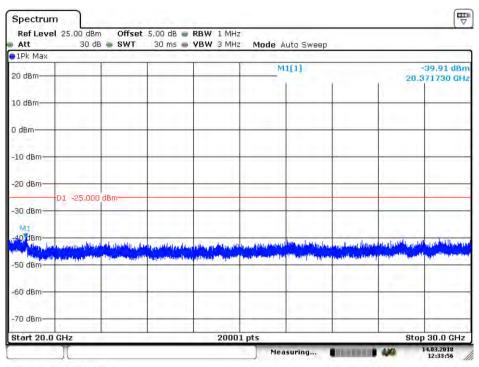


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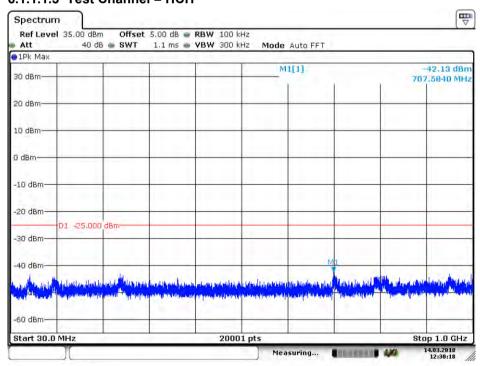
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Date: 14.MAR.2018 12:33:57

6.1.1.1.3 Test Channel = HCH



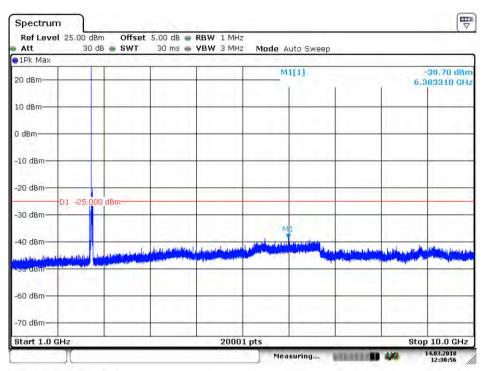
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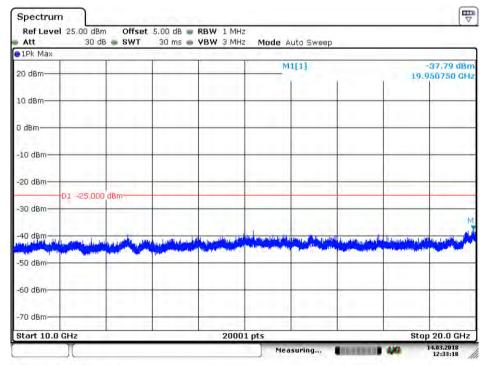


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Date: 14.MAR.2018 12:30:56

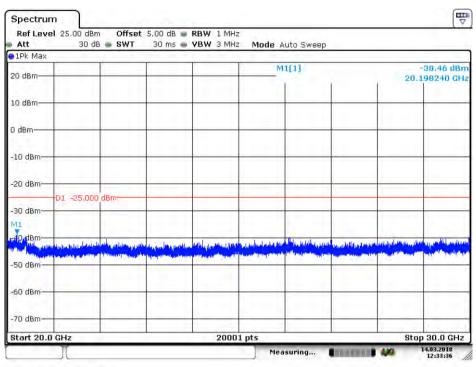


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7 Field Strength of Spurious Radiation

Part I - Test Results

7.1 For LTE

7.1.1 Test Band = LTE band7

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
62.600000	-83.18	-25.00	58.18	Vertical
104.300000	-74.23	-25.00	49.23	Vertical
942.066667	-78.17	-25.00	53.17	Vertical
5002.000000	-66.15	-25.00	41.15	Vertical
7503.200000	-63.83	-25.00	38.83	Vertical
10004.400000	-60.63	-25.00	35.63	Vertical
63.700000	-78.31	-25.00	53.31	Horizontal
104.300000	-80.90	-25.00	55.90	Horizontal
1147.000000	-67.70	-25.00	42.70	Horizontal
5002.000000	-65.59	-25.00	40.59	Horizontal
7503.200000	-57.41	-25.00	32.41	Horizontal
10004.400000	-56.77	-25.00	31.77	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.050000	-81.65	-25.00	56.65	Vertical
104.300000	-74.69	-25.00	49.69	Vertical
1272.000000	-66.34	-25.00	41.34	Vertical
5051.725000	-66.14	-25.00	41.14	Vertical
7577.950000	-61.77	-25.00	36.77	Vertical
10104.500000	-58.57	-25.00	33.57	Vertical
62.250000	-78.28	-25.00	53.28	Horizontal
104.300000	-81.46	-25.00	56.46	Horizontal
173.950000	-86.14	-25.00	61.14	Horizontal
5052.050000	-65.59	-25.00	40.59	Horizontal
7578.600000	-60.02	-25.00	35.02	Horizontal
10104.500000	-58.14	-25.00	33.14	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.150000	-81.56	-25.00	56.56	Vertical
104.250000	-75.02	-25.00	50.02	Vertical
1258.000000	-66.31	-25.00	41.31	Vertical
5102.100000	-66.05	-25.00	41.05	Vertical
7653.025000	-62.91	-25.00	37.91	Vertical
10204.275000	-59.49	-25.00	34.49	Vertical
63.150000	-77.52	-25.00	52.52	Horizontal
104.300000	-80.80	-25.00	55.80	Horizontal
1238.500000	-67.49	-25.00	42.49	Horizontal
5359.825000	-66.60	-25.00	41.60	Horizontal
7653.350000	-58.45	-25.00	33.45	Horizontal
10204.275000	-57.89	-25.00	32.89	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.



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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
				VL	-4.03	-0.00217	PASS
		LCH	TN	VN	0.46	0.00025	PASS
				VH	-7.73	-0.00416	PASS
				VL	1.49	0.00079	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-2.84	-0.00151	PASS
				VH	2.63	0.00140	PASS
				VL	-6.56	-0.00345	PASS
		HCH	TN	VN	-5.17	-0.00272	PASS
				VH	-0.79	-0.00042	PASS
				VL	-4.28	-0.00230	PASS
		LCH	TN VN VH VL TN VN	VN	-2.95	-0.00159	PASS
				VH	-5.16	-0.00277	PASS
		MCH	TN	VL	1.56	0.00083	PASS
LTEband7	LTE/TM2 20MHz			VN	-2.80	-0.00149	PASS
				VH	2.59	0.00138	PASS
			TN	VL	-3.08	-0.00162	PASS
		HCH		VN	-8.00	-0.00421	PASS
				VH	0.44	0.00023	PASS
			TN	VL	2.09	0.00112	PASS
		LCH		VN	-0.32	-0.00017	PASS
				VH	4.38	0.00235	PASS
				VL	-2.83	-0.00151	PASS
	LTE/TM3 20MHz	MCH	TN	VN	0.43	0.00023	PASS
				VH	-3.54	-0.00188	PASS
				VL	3.23	0.00170	PASS
		HCH	TN	VN	1.45	0.00076	PASS
				VH	-2.05	-0.00108	PASS



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8.2 Frequency Error VS. Temperature

Part I - Test Results

Part I - Tes Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-0.40	-0.00022	PASS
				-20	-1.34	-0.00072	PASS
				-10 2.38	0.00128	PASS	
				0	1.75	0.00094	PASS
		LCH	VN	10	1.65	0.00089	PASS
				20	0.11	0.00006	PASS
				30	-0.31	-0.00017	PASS
				40	-0.14	-0.00008	PASS
				50	0.59	0.00032	PASS
				-30	-7.80	-0.00415	PASS
				-20	-5.95	-0.00316	PASS
				-10	-7.49	-0.00398	PASS
				0	-5.62	-0.00299	PASS
LTEband7	LTE/TM1 20MHz	MCH	VN	10	-4.04	-0.00215	PASS
				20	-9.94	-0.00529	PASS
				30	-5.66	-0.00301	PASS
				40	-4.62	-0.00246	PASS
				50	-6.92	-0.00368	PASS
				-30	0.54	0.00089 0.00006 -0.00017 -0.00008 0.00032 -0.00415 -0.00316 -0.00299 -0.00299 -0.00215 -0.00529 -0.00301 -0.00246	PASS
				-20	-1.49	-0.00078	PASS
				-10	1.53	0.00081	PASS
				0	-2.83	-0.00149	PASS
		HCH	VN	10	2.60	0.00137	PASS
				20	-0.57	-0.00030	PASS
				30	-2.66	-0.00140	PASS
			Ē	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
				-30	-0.50	-0.00027	PASS
				-20	-2.45	-0.00132	PASS
				-10	3.38	0.00182	PASS
				0	2.64	0.00142	PASS
		LCH	VN	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
				-30	-3.80	-0.00202	PASS
				-20	-5.38	-0.00286	PASS
				-10	-10 -7.29 -	-0.00388	PASS
				0	-4.32		PASS
LTEband7	LTE/TM2 20MHz	MCH	VN	10 -0.34	-0.00018	PASS	
				20	1.74	0.00093	PASS
				30	-3.64	-0.00194	PASS
				40	-2.62	-0.00027 -0.00132 0.00182 0.00142 0.00086 -0.00012 -0.00024 0.00287 0.00042 -0.00202 -0.00286 -0.00388 -0.00230 -0.00018 0.00093	PASS
				50	-3.91	-0.00208	PASS
				-30	1.34	0.00071	PASS
				-20	-2.55	-0.00134	PASS
				-10	1.59	0.00084	PASS
				0	-3.73	-0.00196	PASS
		HCH	VN	10	2.88	0.00152	PASS
				20	-1.47	-0.00077	PASS
				30	-2.59	-0.00136	PASS
			-	40	-4.33	-0.00228	PASS
				50	-7.60	-0.00400	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	1.50	0.00081	PASS
				-20	-1.60	-0.00086	PASS
				-10	4.38	0.00235	PASS
				0	1.69	0.00091	PASS
		LCH	VN	10	1.43	0.00077	PASS
				20	0.54	0.00029	PASS
				30	-2.61	-0.00140	PASS
				40	-0.69	-0.00037	PASS
				50	3.52	0.00189	PASS
				-30	-7.34	-0.00390	PASS
			VN	-20	-5.33	-0.00284	PASS
				-10	-7.23	-0.00385	PASS
				0	-5.34	-0.00284	PASS
LTEband7	7 LTE/TM3 20MHz	MCH		10	-4.04	-0.00215	PASS
				20	-6.34	-0.00337	PASS
				30	-5.26	-0.00280	PASS
				40	-4.13	-0.00086	PASS
				50	-6.47	-0.00344	PASS
				-30	2.34	0.00123	PASS
				-20	-1.83	-0.00096	PASS
				-10	1.57	0.00083	PASS
				0	-2.43	-0.00128	PASS
		HCH	VN	10	1.60	0.00084	PASS
				20	-0.57	-0.00030	PASS
				30	0.66	0.00035	PASS
				40	-5.43	-0.00286	PASS
				50	-5.90	-0.00311	PASS

The End