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Appendix B

E-UTRA Band26 (824-849)



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1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26										
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict		
				RB1#0	21.84	16.79	38.45	PASS		
				RB1#2	21.8	16.75	38.45	PASS		
				RB1#5	21.63	16.58	38.45	PASS		
			LCH	RB3#0	21.85	16.8	38.45	PASS		
				RB3#2	21.8	16.75	38.45	PASS		
				RB3#3	21.71	16.66	38.45	PASS		
				RB6#0	20.84	15.79	38.45	PASS		
				RB1#0	21.78	16.73	38.45	PASS		
	LTE/TM1	1.4M	МСН	RB1#2	21.89	16.84	38.45	PASS		
				RB1#5	21.79	16.74	38.45	PASS		
BAND26				RB3#0	21.86	16.81	38.45	PASS		
				RB3#2	21.92	16.87	38.45	PASS		
				RB3#3	21.84	16.79	38.45	PASS		
				RB6#0	20.96	15.91	38.45	PASS		
				RB1#0	21.48	16.43	38.45	PASS		
				RB1#2	21.54	16.49	38.45	PASS		
				RB1#5	21.3	16.25	38.45	PASS		
			НСН	RB3#0	21.57	16.52	38.45	PASS		
				RB3#2	21.6	16.55	38.45	PASS		
				RB3#3	21.57	16.52	38.45	PASS		
				RB6#0	20.71	15.66	38.45	PASS		



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21	15.95	38.45	PASS
				RB1#2	21.02	15.97	38.45	PASS
				RB1#5	20.84	15.79	38.45	PASS
			LCH	RB3#0	20.97	15.92	38.45	PASS
				RB3#2	20.97	15.92	38.45	PASS
				RB3#3	20.86	15.81	38.45	PASS
				RB6#0	20.91	15.86	38.45	PASS
				RB1#0	20.89	15.84	38.45	PASS
	LTE/TM2	1.4M		RB1#2	21.25	16.2	38.45	PASS
			МСН	RB1#5	21.1	16.05	38.45	PASS
BAND26				RB3#0	21.1	16.05	38.45	PASS
				RB3#2	21.01	15.96	38.45	PASS
				RB3#3	21.13	16.08	38.45	PASS
				RB6#0	21	15.95	38.45	PASS
				RB1#0	20.73	15.68	38.45	PASS
				RB1#2	20.59	15.54	38.45	PASS
				RB1#5	20.4	15.35	38.45	PASS
			НСН	RB3#0	20.74	15.69	38.45	PASS
				RB3#2	20.75	15.7	38.45	PASS
				RB3#3	20.74	15.69	38.45	PASS
				RB6#0	20.71	15.66	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.68	16.63	38.45	PASS
				RB1#7	21.87	16.82	38.45	PASS
				RB1#14	21.28	16.23	38.45	PASS
			LCH	RB8#0	20.77	15.72	38.45	PASS
				RB8#4	20.76	15.71	38.45	PASS
				RB8#7	20.63	15.58	38.45	PASS
				RB15#0	20.69	15.64	38.45	PASS
				RB1#0	21.45	16.4	38.45	PASS
	LTE/TM1	ЗМ		RB1#7	21.9	16.85	38.45	PASS
			МСН	RB1#14	21.62	16.57	38.45	PASS
BAND26				RB8#0	20.78	15.73	38.45	PASS
				RB8#4	20.9	15.85	38.45	PASS
				RB8#7	20.85	15.8	38.45	PASS
				RB15#0	20.81	15.76	38.45	PASS
				RB1#0	21.22	16.17	38.45	PASS
				RB1#7	21.63	16.58	38.45	PASS
				RB1#14	21.2	16.15	38.45	PASS
			НСН	RB8#0	20.48	15.43	38.45	PASS
				RB8#4	20.63	15.58	38.45	PASS
				RB8#7	20.56	15.51	38.45	PASS
				RB15#0	20.58	15.53	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	20.95	15.9	38.45	PASS
				RB1#7	21.31	16.26	38.45	PASS
				RB1#14	20.77	15.72	38.45	PASS
			LCH	RB8#0	20.84	15.79	38.45	PASS
				RB8#4	20.81	15.76	38.45	PASS
				RB8#7	20.69	15.64	38.45	PASS
				RB15#0	20.67	15.62	38.45	PASS
				RB1#0	20.67	15.62	38.45	PASS
	LTE/TM2	ЗМ		RB1#7	21.14	16.09	38.45	PASS
			МСН	RB1#14	20.83	15.78	38.45	PASS
BAND26				RB8#0	20.84	15.79	38.45	PASS
				RB8#4	20.94	15.89	38.45	PASS
				RB8#7	20.9	15.85	38.45	PASS
				RB15#0	20.82	15.77	38.45	PASS
				RB1#0	20.46	15.41	38.45	PASS
				RB1#7	20.93	15.88	38.45	PASS
				RB1#14	20.47	15.42	38.45	PASS
			НСН	RB8#0	20.49	15.44	38.45	PASS
				RB8#4	20.59	15.54	38.45	PASS
				RB8#7	20.49	15.44	38.45	PASS
				RB15#0	20.56	15.51	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.08	17.03	38.45	PASS
				RB1#13	21.99	16.94	38.45	PASS
				RB1#24	21.65	16.6	38.45	PASS
			LCH	RB12#0	20.91	15.86	38.45	PASS
				RB12#6	20.89	15.84	38.45	PASS
				RB12#13	20.61	15.56	38.45	PASS
				RB25#0	20.75	15.7	38.45	PASS
		5M		RB1#0	21.98	16.93	38.45	PASS
	LTE/TM1			RB1#13	22.14	17.09	38.45	PASS
			МСН	RB1#24	22.18	17.13	38.45	PASS
BAND26				RB12#0	20.83	15.78	38.45	PASS
				RB12#6	21.01	15.96	38.45	PASS
				RB12#13	20.99	15.94	38.45	PASS
				RB25#0	20.88	15.83	38.45	PASS
				RB1#0	21.82	16.77	38.45	PASS
				RB1#13	21.74	16.69	38.45	PASS
				RB1#24	21.72	16.67	38.45	PASS
			НСН	RB12#0	20.68	15.63	38.45	PASS
				RB12#6	20.69	15.64	38.45	PASS
				RB12#13	20.65	15.6	38.45	PASS
				RB25#0	20.7	15.65	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.29	16.24	38.45	PASS
				RB1#13	21.25	16.2	38.45	PASS
				RB1#24	20.91	15.86	38.45	PASS
			LCH	RB12#0	20.9	15.85	38.45	PASS
				RB12#6	20.83	15.78	38.45	PASS
				RB12#13	20.6	15.55	38.45	PASS
				RB25#0	20.7	15.65	38.45	PASS
		5M		RB1#0	21.16	16.11	38.45	PASS
	LTE/TM2			RB1#13	21.42	16.37	38.45	PASS
			МСН	RB1#24	21.36	16.31	38.45	PASS
BAND26				RB12#0	20.88	15.83	38.45	PASS
				RB12#6	21.05	16	38.45	PASS
				RB12#13	20.98	15.93	38.45	PASS
				RB25#0	20.89	15.84	38.45	PASS
				RB1#0	21.45	16.4	38.45	PASS
				RB1#13	21.41	16.36	38.45	PASS
				RB1#24	21.31	16.26	38.45	PASS
			НСН	RB12#0	20.67	15.62	38.45	PASS
				RB12#6	20.76	15.71	38.45	PASS
				RB12#13	20.68	15.63	38.45	PASS
				RB25#0	20.63	15.58	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.96	16.91	38.45	PASS
				RB1#24	21.96	16.91	38.45	PASS
				RB1#49	21.56	16.51	38.45	PASS
			LCH	RB25#0	21.01	15.96	38.45	PASS
				RB25#12	20.93	15.88	38.45	PASS
				RB25#25	20.56	15.51	38.45	PASS
				RB50#0	20.79	15.74	38.45	PASS
				RB1#0	21.62	16.57	38.45	PASS
		10M		RB1#24	22.18	17.13	38.45	PASS
			МСН	RB1#49	21.83	16.78	38.45	PASS
BAND26	LTE/TM1			RB25#0	20.85	15.8	38.45	PASS
				RB25#12	21.07	16.02	38.45	PASS
				RB25#25	21.03	15.98	38.45	PASS
				RB50#0	20.94	15.89	38.45	PASS
				RB1#0	22.14	17.09	38.45	PASS
				RB1#24	21.92	16.87	38.45	PASS
				RB1#49	21.59	16.54	38.45	PASS
			НСН	RB25#0	21.11	16.06	38.45	PASS
				RB25#12	20.95	15.9	38.45	PASS
				RB25#25	20.69	15.64	38.45	PASS
				RB50#0	20.98	15.93	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.42	16.37	38.45	PASS
				RB1#24	21.44	16.39	38.45	PASS
				RB1#49	21.03	15.98	38.45	PASS
			LCH	RB25#0	20.96	15.91	38.45	PASS
				RB25#12	20.89	15.84	38.45	PASS
				RB25#25	20.54	15.49	38.45	PASS
				RB50#0	20.74	15.69	38.45	PASS
				RB1#0	20.83	15.78	38.45	PASS
		E/TM2 10M		RB1#24	21.42	16.37	38.45	PASS
			МСН	RB1#49	20.84	15.79	38.45	PASS
BAND26	LTE/TM2			RB25#0	20.83	15.78	38.45	PASS
				RB25#12	21.04	15.99	38.45	PASS
				RB25#25	21.01	15.96	38.45	PASS
				RB50#0	20.92	15.87	38.45	PASS
				RB1#0	21.36	16.31	38.45	PASS
				RB1#24	21.14	16.09	38.45	PASS
				RB1#49	20.58	15.53	38.45	PASS
			НСН	RB25#0	21.06	16.01	38.45	PASS
				RB25#12	20.9	15.85	38.45	PASS
				RB25#25	20.61	15.56	38.45	PASS
				RB50#0	21.06	16.01	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.09	17.04	38.45	PASS
				RB1#38	22.04	16.99	38.45	PASS
				RB1#74	22.03	16.98	38.45	PASS
			LCH	RB36#0	21.04	15.99	38.45	PASS
				RB36#18	21.01	15.96	38.45	PASS
				RB36#39	20.88	15.83	38.45	PASS
				RB75#0	20.88	15.83	38.45	PASS
				RB1#0	21.85	16.8	38.45	PASS
		15M		RB1#38	22.38	17.33	38.45	PASS
			MCH	RB1#74	21.73	16.68	38.45	PASS
BAND26	LTE/TM1			RB36#0	20.97	15.92	38.45	PASS
				RB36#18	21.26	16.21	38.45	PASS
				RB36#39	21.16	16.11	38.45	PASS
				RB75#0	21.06	16.01	38.45	PASS
				RB1#0	22.01	16.96	38.45	PASS
				RB1#38	22.45	17.4	38.45	PASS
				RB1#74	21.71	16.66	38.45	PASS
			НСН	RB36#0	21.26	16.21	38.45	PASS
				RB36#18	21.29	16.24	38.45	PASS
				RB36#39	20.89	15.84	38.45	PASS
				RB75#0	21.07	16.02	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.3	16.25	38.45	PASS
				RB1#38	21.41	16.36	38.45	PASS
				RB1#74	21.18	16.13	38.45	PASS
			LCH	RB36#0	20.96	15.91	38.45	PASS
				RB36#18	20.96	15.91	38.45	PASS
				RB36#39	20.83	15.78	38.45	PASS
				RB75#0	20.9	15.85	38.45	PASS
				RB1#0	21.08	16.03	38.45	PASS
				RB1#38	21.67	16.62	38.45	PASS
				RB1#74	21.01	15.96	38.45	PASS
BAND26	LTE/TM2	15M	МСН	RB36#0	20.95	15.9	38.45	PASS
				RB36#18	21.24	16.19	38.45	PASS
				RB36#39	21.13	16.08	38.45	PASS
				RB75#0	21.01	15.96	38.45	PASS
				RB1#0	21.3	16.25	38.45	PASS
				RB1#38	21.41	16.36	38.45	PASS
				RB1#74	21.18	16.13	38.45	PASS
			НСН	RB36#0	20.96	15.91	38.45	PASS
				RB36#18	20.96	15.91	38.45	PASS
				RB36#39	20.83	15.78	38.45	PASS
				RB75#0	20.9	15.85	38.45	PASS

Note:

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

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd] b: SGP=Signal Generator Level



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Peak-to-Average Ratio 2

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	5.65	13	PASS
	TM1/15M TM2/15M	MCH	5.45	13	PASS
Dand OC		НСН	5.30	13	PASS
Band 26		LCH	5.86	13	PASS
		MCH	5.88	13	PASS
		НСН	5.77	13	PASS

Part II - Test Plots

2.1 For LTE

2.1.1.1

2.1.1 Test Band = LTE band26

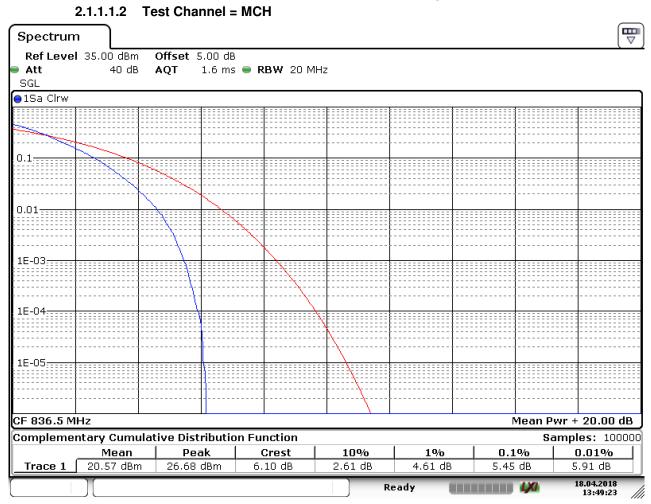
Test Mode = LTE/TM1.Bandwidth=15MHz

2.1.1.1.1 Test Channel = LCH ₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB Att 40 dB AQT 1.6 ms 👄 RBW 20 MHz SGL ●1Sa Clrw 0.1:0.01 1E-03; 1E-04: 1E-05 CF 831.5 MHz Mean Pwr + 20.00 dB Complementary Cumulative Distribution Function Samples: 100000 Mean Peak Crest 10%1% 0.1%0.01%20.26 dBm 26.67 dBm 6.41 dB 2.55 dB 4.67 dB 5.65 dB 6.03 dB Trace 1 18.04.2018 Ready LXI 13:48:32

Date: 18.APR.2018 13:48:32



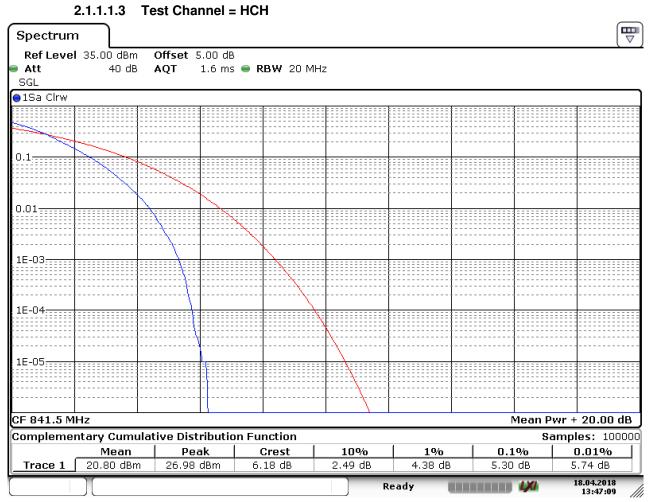
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Date: 18.APR.2018 13:49:23



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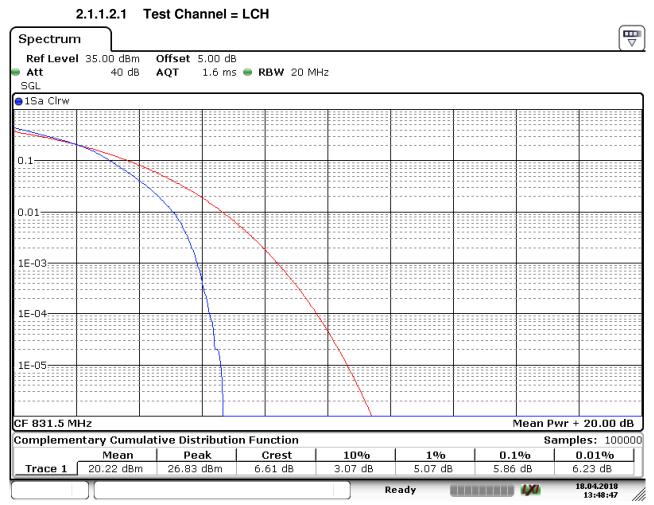


Date: 18.APR.2018 13:47:10



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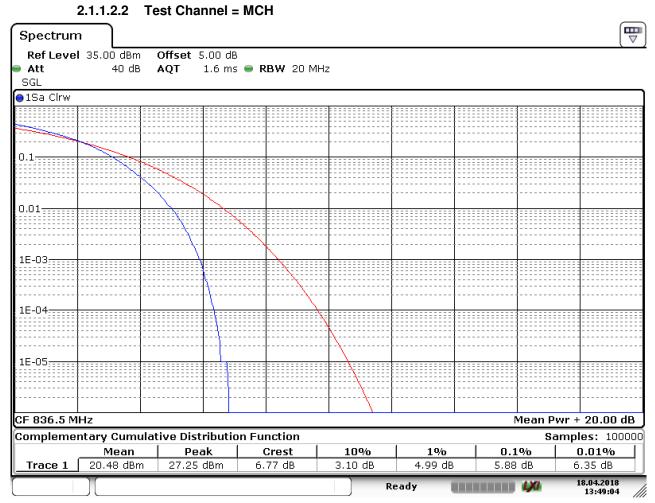
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=15MHz



Date: 18.APR.2018 13:48:47



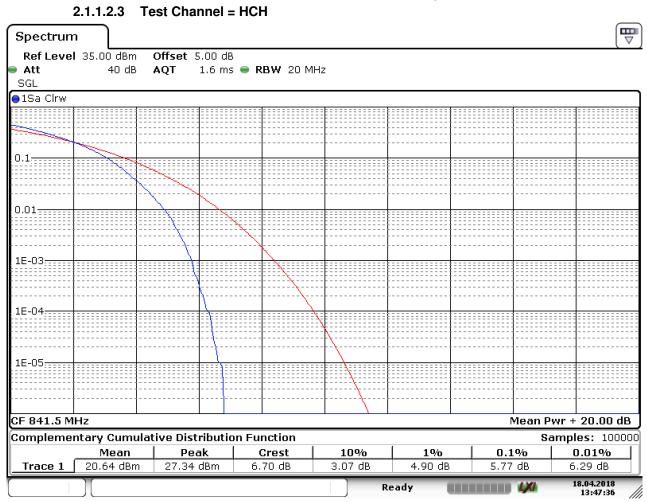
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Date: 18.APR.2018 13:49:05



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Date: 18.APR.2018 13:47:37



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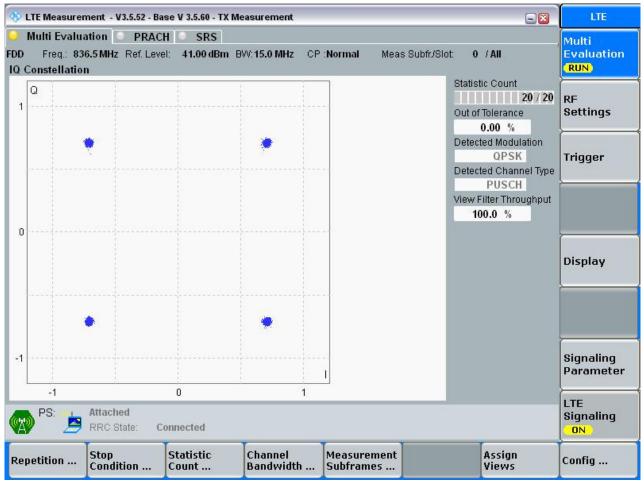
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band26

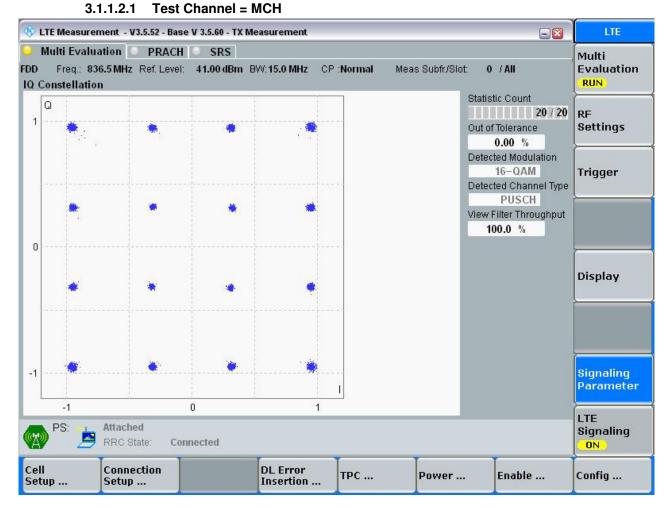
3.1.1.1 Test Mode = LTE /TM1 15MHz

3.1.1.1.1 Test Channel = MCH





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3.1.1.2 Test Mode = LTE /TM2 15MHz



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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	1.25	PASS
	TM1/1.4MHz	MCH	1.10	1.24	PASS
		НСН	1.09	1.24	PASS
		LCH	1.10	1.24	PASS
	TM2/1.4MHz	MCH	1.10	1.24	PASS
		HCH	1.10	1.25	PASS
		LCH	2.68	2.93	PASS
	TM1/3MHz	MCH	2.69	2.94	PASS
		HCH	2.67	2.91	PASS
		LCH	2.68	2.94	PASS
	TM2/3MHz	MCH	2.69	2.94	PASS
		HCH	2.69	2.92	PASS
		LCH	4.48	4.87	PASS
	TM1/5MHz	MCH	4.48	4.88	PASS
		HCH	4.49	4.92	PASS
Band 26		LCH	4.48	4.90	PASS
	TM2/5MHz	MCH	4.49	4.89	PASS
		HCH	4.49	4.91	PASS
		LCH	8.95	9.73	PASS
	TM1/10MHz	MCH	8.95	9.73	PASS
		HCH	8.95	9.75	PASS
		LCH	8.93	9.73	PASS
	TM2/10MHz	MCH	8.93	9.75	PASS
		HCH	8.95	9.75	PASS
		LCH	13.55	14,99	PASS
	TM1/15MHz	MCH	13.49	14.99	PASS
		НСН	13.46	14.96	PASS
		LCH	13.55	15.05	PASS
	TM2/15MHz	MCH	13.49	14.93	PASS
		НСН	13.43	14.78	PASS



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Part II – Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band26

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1	Test	Channel	= LC	ЭН
-----------	------	---------	------	----

Spectrum	n								
	l 35.00 dBr		5.00 dB 👄		_				
e Att	40 di	B 😑 SWT	30 ms 👄	VBW 100 kH	z Mode	Auto Swee	p		
⊖1Pk View	1	1	1	· · ·					
30 dBm					D	1[1]			-3.42 dB
30 übili					_				24680 MHz
						CC BW		1.0999	00100 MHz
20 dBm					IYI	1[1]		924	-7.74 dBm 08260 MHz
	D1 16.630	dBm	Thursdall	www.www.www.	u damay lilayardana	formant 2		024.	
10 dBm			7			<u> </u>			
						1 4			
0 dBm			/			ļ			
		M	l .				1		
-10 dBm	n2 _q	 .370 dBm==					<u> </u>		
-10 000	02 5	T de la T					1		
		untin uthate					La ancher e a	1.	
-20 dBm		- MARCHAR					I way white the	MARINA MALANAN	mapply
millionary	100 1							*0140	a mar da na Militad
-30 dBm									
-40 dBm									
-40 0011									
-50 dBm									
-60 dBm									
					_				
CF 824.7 N	MHZ			1001	pts			-	n 3.0 MHz
[Л				Mea	asuring		1,70	13:02:05

Date: 18.APR.2018 13:02:04



Report No.: SZEM180100021804 Page: 23 of 108

Spectrum	ι								
Ref Level	35.00 dBm	Offset	5.00 dB 👄	RBW 30 k	Ηz				
Att	40 dB	🖷 SWT	30 ms 👄	VBW 100 k	Hz Mode	Auto Swee	р		
⊖1Pk View		r	1	1					
30 dBm					D	1[1]			-0.83 dB
S0 dbiii						cc Bw			24380 MHz 03097 MHz
						1[1]			10.55 dBm
20 dBm						-[-]			87960 MHz
	D1 15.430(dBm	Thought	Juphurphorner	nurmentin	Another William			
10 dBm			¥			× 12 ▼			
			17						
0 dBm				-		<u>ا</u> ا	1		
-10 dBm							h1		
		.570 dBm					A		
-20 dBm—									
								lan .	
<mark>Ալիպաստի</mark> -30 dBm—	494 June 1	Apple All					1 Mallin Mary	h. Alla Million	Williamphole
-30 dBm	- HWH OUT	с .0 Л -					1.0 1.	a crittadh . Ita	
-40 dBm—									
-50 dBm				_					
-60 dBm—									
oo abiii									
CF 836.5 N	1Hz			1001	pts			Spa	n 3.0 MHz
					Mea	suring		1,70	8.04.2018 13:20:25

4.1.1.1.2 Test Channel = MCH

Date: 18.APR.2018 13:20:25



Report No.: SZEM180100021804 Page: 24 of 108

Spectrum	ι									
	l 35.00 dBr		5.00 dB 👄		30 kHz	_				
Att	40 d	B 🖷 SWT	30 ms 👄	VBW	100 kHz	Mode	Auto Swee	p		
●1Pk View		1	1	1			F 4 1			
30 dBm							[1]		1	-0.71 dB 24080 MHz
						Oc	c Bw			09091 MHz
20 dBm						M1	[1]		-	10.38 dBm
	D1 15.420	dBm				i			847.	68260 MHz
10 dBm	DI 13,720		TJMANUM	hardward	nthinethy productions	monormation	ntherman 2			
			ľ				ſ			
							۱			
0 dBm			1					1		
		M	Į –					<u>}</u> .		
-10 dBm—	D2 -1	0.580 dBm 🔫								
		1 1						N		
-20 dBm—								still a	11	
-20 aBm -20 aBm -30 dBm	when the Mr. Mr.	AHALAN ^{AM}						- Alvanilla	WWW MULLING	hullyhyhyh
-30 dBm	con la ha lli a a	r vo: oi							1,01,00,00	alterally subles
-40 dBm										
-50 dBm										
-30 dBm										
-60 dBm										
CF 848.3 M	1Hz	<u> </u>	I	· · · · ·	1001 pt:	s		1	Spa	n 3.0 MHz
						Mea	suring		LXI	18.04.2018 13:21:12

4.1.1.1.3 Test Channel = HCH

Date: 18.APR.2018 13:21:13



Report No.: SZEM180100021804 Page: 25 of 108

	4.1.1.2.1	Test Cha	nnel = LCH	1					_
Spectru	m]								
Ref Leve	el 35.00 dBr	m Offset	5.00 dB 😑 I	RBW 30 ki	Hz				`
🖷 Att	40 d	B 👄 SWT	30 ms 😑 '	VBW 100 ki	Hz Mode	Auto Swee	р		
😑 1Pk View									
					D	1[1]			-3.91 dB
30 dBm—									24080 MHz
						cc Bw		1.0999	00100 MHz
20 dBm—					M	1[1]		094	-8.11 dBm 08560 MHz
	D1 16.170	dBm		whenetheral	handharkanthar	KHOPHHAN HAT		024.	
10 dBm—			l		1.40.10	12			
			p l			լ կ			
0 dBm			{						
		м	1						
			f i				l l		
-10 dBm-		.830 dBm							
		PUUphanduhaphand					Mylyha, may	adrad da a	
-20 dBm	H. MAR MAN	PHUH					- L. Alamhi	The second s	Huston .
hiter and the second second									. a aloradi where where
-30 dBm—									
-40 dBm—									
-+0 ubiii									
-50 dBm—									
-60 dBm—									
CF 824.7	 MHz			1001	nts				n 3.0 MHz
) (1001				-	8.04.2018
					Mea	suring		44	13:02:53

4.1.1.2 Test Mode = LTE/TM2 1.4MHz

Date: 18.APR.2018 13:02:53



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Spectrum	ı)									
	l 35.00 dBr		5.00 dB 😑		kHz					
Att	40 d	B 🛑 SWT	30 ms 👄	VBW 100	kHz	Mode	Auto Swee	р		
⊖1Pk View	1	1	1	T						
30 dBm						D1	.[1]			-3.98 dB
So abiii						0.	c Bw			23780 MHz
							сви [[1]		1.0999	00100 MHz -8.14 dBm
20 dBm							4.41		835.	88560 MHz
	D1 15.930	dBm	T with when	Bloration	nahhah	Vhildeyayter	with my			
10 dBm			Ý		-		7			
			ľ				1			
0 dBm			ľ					J		
		M	1					l I		
-10 dBm	D2_1	 0.070 dBm						Α.		
10 dBill	02 -1							14 C		
		d d						15		
-20 dBm	الما الله من	LL ALTING			-			AND AND A	المليط للليا الدرير	
-20 dBm	AMAMANAN	Alle al such and a						R. In a con a	Mahulun.	19th Marsh William
-30 dBm					_					1
-40 dBm					_					
10 4211										
-50 dBm										
-60 dBm——										
CF 836.5 N	4.1.5			100)1 pts					n 3.0 MHz
				101	r pe	2			-	11 3.0 MHZ
Ĺ						Meas	suring			13:19:34

4.1.1.2.2 Test Channel = MCH

Date: 18.APR.2018 13:19:34



Report No.: SZEM180100021804 Page: 27 of 108

Spectrum	Γ								
	l 35.00 dBm		5.00 dB 👄						· · · ·
Att	40 dB	🖷 SWT	30 ms 👄	VBW 100 ki	Hz Mode	Auto Swee	р		
⊖1Pk View	r		r	1					
30 dBm					D:	1[1]		1	-1.14 dB 24680 MHz
					0	cc Bw			03097 MHz
20 dBm						1[1]			-9.86 dBm
20 0011	D1 15.770 (Bm						847.	67660 MHz
	DI 13,770 (T James for the part of the pa	burron popular	"Whoten half what	Hymldynny to			
10 dBm			Ĵ			X X			
			Į.			(
0 dBm									
		M	ĺ				N.		
<u>10 dBm</u>	D2 -10	1.230 dBm 🕇							
-20 dBm 	utions of Millian	NUTLING					- "Brything filling	Aller March 1. 1	1444 with filling of
ALLOW AND A MARCH MARCH	huludisanha . I	no.∥.						Lin a autority of	MAN KANKAN IN
-30 dBm									On workho
-40 dBm									
-50 dBm									
-60 dBm									
-00 abiii									
CF 848.3 N	/IHz			1001	pts				n 3.0 MHz
					Mea	suring		1/0	8.04.2018 13:22:15

4.1.1.2.3 Test Channel = HCH

Date: 18.APR.2018 13:22:15



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	4.1.1.3.1	Test Cha	nnel = LCH	1					
Spectrun	n								
Ref Leve	I 35.00 dBm	n Offset	5.00 dB 😑 I	RBW 30 k	Hz				
🖷 Att	40 dB	B 👄 SWT	30 ms 👄 '	VBW 100 k	Hz Mode	Auto Swee	p		
⊖1Pk View									
					D	1[1]			-3.45 dB
30 dBm									93110 MHz
						cc Bw			20679 MHz
20 dBm					M	1[1]			13.04 dBm 03750 MHz
							то	824.	03730 MHZ
10 dBm	D1 12.430		July march and	واليلاط والمحالية	arille the filler and the	ANHA MALIN	n iz		
		j j					- Incode		
0 dBm							L		
							1 4		
-10 dBm—		M					1		
	D2 -13	3.570 d <mark>B</mark> m—					Dit		
-20 dBm—							<u> </u>		
	- a distanti	March					ally the	u	
	www.mlulinitit	10 802					Jurido	anatan Mender	hillionally high
-40 dBm—									
-50 dBm—									
-60 dBm—									
CF 825.5 r	MHZ			1001	. pts			-	n 6.0 MHz
					Mea	suring		LXI	8.04.2018 13:00:20

4.1.1.3 Test Mode = LTE/TM1 3MHz

Date: 18.APR.2018 13:00:20



Report No.: SZEM180100021804 Page: 29 of 108

Spectrum	'n								
	35.00 dBn		5.00 dB 👄						
Att	40 di	B 😑 SWT	30 ms 👄	VBW 100 k	Hz Mode	Auto Swe	ер		
⊖1Pk View		1	1	1	1				
30 dBm					D	1[1]		_	-1.25 dB
30 dBm						CC BW			94310 MHz 14685 MHz
						11[1]			14685 MHZ 13.38 dBm
20 dBm					11	11[1]			02550 MHz
	D1 10 070	 dBm <u>T1</u>							
10 dBm	D1 12.370	ubiii M	when whete	all the second s	and samp	hand the state of	why z		
0 dBm									
0 0.0111									
-10 dBm—		3.630 dBm-					d1		
		3.030 ubiii					↑		
-20 dBm									
							1		
-30 dBm	No Haralander	hollow						w malleshiller	White marches
whom who have	DA Geraldow 1.1								Abarat a parte
-40 dBm									
-+0 abiii									
-50 dBm—									
-60 dBm									
				1001				0	
CF 836.5 M	IHZ			1001				-	n 6.0 MHz
					Mea	asuring			12:59:21

4.1.1.3.2 Test Channel = MCH

Date: 18.APR.2018 12:59:22



Report No.: SZEM180100021804 Page: 30 of 108

Spectrum	')								
Ref Level	35.00 dBm	n Offset	5.00 dB 👄						
e Att	40 dE	B 👄 SWT	30 ms 👄	VBW 100 k	Hz Mode	Auto Swe	еер		
⊖1Pk View		1	1	1	1				
30 dBm						1[1] cc Bw			-0.71 dB 91910 MHz 26673 MHz
20 dBm						1[1]	1	-	13.94 dBm 04950 MHz
10 dBm	D1 11.800	dBm	Montemp	www.hunna	phillips And the	pharm	mm Z		
0 dBm									
-10 dBm		4.200 dBm-							
-20 dBm									
-30 vdBm	the work the	Mhoy)						hut hut hut	alwy gally all palls
-40 dBm									ንዋና የሆኑትው
-50 dBm									
-60 dBm									
CF 847.5 M	IHz	I	I	1001	pts	·		Spa	n 6.0 MHz
][]				Mea	asuring		130	18.04.2018 12:56:27

4.1.1.3.3 Test Channel = HCH

Date: 18.APR.2018 12:56:27



Report No.: SZEM180100021804 Page: 31 of 108

	4.1.1.4.1	Test Cha	nnel = LCH	1					
Spectru	n								
Ref Leve	el 35.00 dBm	n Offset	5.00 dB 😑 I	RBW 30 ki	Ηz				
🖷 Att	40 dE	B 👄 SWT	30 ms 👄 '	VBW 100 k	Hz Mode	Auto Swee	р		
😑 1Pk View									
					D	1[1]			-3.20 dB
30 dBm—									94310 MHz
						cc Bw			20679 MHz
20 dBm—	-				M	1[1]			11.84 dBm
							T2	824.	03150 MHz
10 dBm	D1 12.330	dBm Th	a Martin Maria	المتعلي والمعالم والمحالية والمحالية والمحالية والمحالية والمحالية والمحالية والمحالية والمحالية والمحالية وال	apolaryotherapped day	CALIFORN HAL			
		Ι Υ'				ole - o -todio-d			
0 dBm									
		M					1 1		
-10 dBm—		↓ ↓							
	D2 -13	3.670 dBm							
-20 dBm—	al a la la de su	t octation					- "	ul ca co	
1 hallow here	Lallapar. Marthaged	Manna					winding	Mohnahar	Mary Idelan i
-30 dBm									
40 JD									
-40 dBm—									
-50 dBm—									
-60 dBm—									
								_	
CF 825.5	MHZ			1001	pts			-	n 6.0 MHz
					Mea	suring		1 ,X0	8.04.2018 13:01:02

4.1.1.4 Test Mode = LTE/TM2 3MHz

Date: 18.APR.2018 13:01:02



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Spectrum									
Ref Level	35.00 dBm	n Offset	5.00 dB 👄	RBW 30 k	Hz				
Att	40 dE	B 👄 SWT	30 ms 👄	VBW 100 k	Hz Mode	Auto Swe	ер		
⊖1Pk View		1	1	1					
30 dBm					D	1[1]		2	-6.35 dB 93710 MHz
					о	cc Bw			
20 dBm					м	1[1]			11.79 dBm
						1	835.04350 MHz		
10 dBm	01 12.210	dBm	und a short of	apatrimeterapytetet	المراجعة والمراجع		12		
10 0.0111		The second secon	ale sources and the second s	nter course derla - Nes	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	way to a set	-unan W		
0 dBm									
o abiii									
-10 dBm		MA							
-10 UBIII	D2 -13	1 3.790 dBm							
-20 dBm									
		1							
ULAR ARAMAN	1. Abraile	ANAL					Yul Walk	and descention	Idal Alter 1
Werlander	10-11-10-1-1-10-	• · ·							1
-40 dBm									
-50 dBm									
-60 dBm									
CF 836.5 M	Hz	I	I	1001	pts	I		Spa	n 6.0 MHz
)[) Mea	asuring		LXI	18.04.2018 12:58:12

4.1.1.4.2 Test Channel = MCH

Date: 18.APR.2018 12:58:13



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Spectrum	,)								
Ref Level	35.00 dBm	Offset	5.00 dB 😑	RBW 30 k	Ηz				`
Att	40 dB	SWT	30 ms 🔵	VBW 100 k	Hz Mode	Auto Swe	ер		
●1Pk View									
30 dBm					Di	l[1]			-1.88 dB
50 abiii					Occ Bw			2.91910 MHz 2.685314685 MHz	
						1[1]			14083 MHZ 12.77 dBm
20 dBm						-[-]			03750 MHz
	D1 12.680 d	dBm							
10 dBm			Mary Market Carl		m diMuummuh u	Munth	wW72		
0 dBm							+ +		
		1							
-10 dBm—		<u></u>							
	——D2 -13	.320 d <mark>8</mark> m							
-20 dBm—							+		
		at a shall					Janua		
LABRIER HAMME	putil WWWWW	wurv ^e					լույզդն	Multime All July	
սի ստավիչ։ 	•								an and which he
-40 dBm									
-50 dBm									
SO GDIII									
-60 dBm									
-00 ubiii-									
CF 847.5 M	lHz		·	1001	pts	·		Spa	n 6.0 MHz
					Mea	suring		1,70	12:57:23

4.1.1.4.3 Test Channel = HCH

Date: 18.APR.2018 12:57:23



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	4.1.1.5.1	Test Cha	nnel = LCH						
Spectru	m								
Ref Lev	el 35.00 dBm	n Offset	5.00 dB 🥃 RE	3W 50 kH	z				
🔵 Att	40 dE	B 👄 SWT	30 ms 👄 ۷	3W 200 kH	z Mode	Auto Swee	p		
😑 1Pk View	(-		
					Di	L[1]			-1.57 dB
30 dBm—								4.	86500 MHz
						cc Bw	4.475524476 MHz		
20 dBm—		-			M	1[1]			12.38 dBm
							1	824.	06200 MHz
10 dBm—	D1 13.190	dBm Ti	van A.H. La ward dagen.	WHAT THE ADDRESS	White the same	بعبيه الاستثناء	T2		
TO ODIII		r .			لاسلام معيد حيا م	a con a colonardon PAP	my		
0 dBm		1							
-10 dBm—		<u>M</u>							
	D2 -12	2.810 dBm—							
-20 dBm—		ſ							
-20 ubiii—		Lund I to Dut					а 1 м.		
mathation	whatthematic	nal maa					Yr Millow	unitra unit	afderstown
-30 dBm—									1 4 · · · · · · · · · · · · · · · · · ·
-40 dBm—									
-50 dBm—									
-30 abiii-									
-60 dBm—									
CF 826.5	_i MHz			1001	pts		I	Span	10.0 MHz
(cunina			8.04.2018
L					mea	suring			11:46:55

4.1.1.5 Test Mode = LTE/TM1 5MHz

Date: 18.APR.2018 11:46:55



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Spectrum	Γ									
	35.00 dBm		5.00 dB 👄							
Att	40 dB	🖷 SWT	30 ms 😑	VBW 200 ki	Hz Mode	Auto Swe	ер			
●1Pk View										
30 dBm					D	1[1]		4.	-4.20 dB 87500 MHz	
					0	cc Bw		4.475524476 MHz		
20 dBm					M	1[1]			11.21 dBm	
						1	1	834.	08200 MHz	
10 dBm	D1 12.840 (hyder we have a state of the st	لىدىن ھىمايىلىلىلىلىكى الىرى	widentermenter	والمعاديل المعادية والمعادية	472 4847			
0 dBm										
		м								
-10 dBm—	no 10	.160 dBm								
	D2 -13									
-20 dBm—										
-30 dBm	M						- United	A something and	- Mulinet webs	
-30 aBm	wheney W	winaw						÷	maphabar your	
-40 dBm										
-50 dBm—										
-60 dBm										
CF 836.5 M	1Hz	·		1001	pts			Span	10.0 MHz	
					Mea	asuring		1,70	18.04.2018 11:48:32	

4.1.1.5.2 Test Channel = MCH

Date: 18.APR.2018 11:48:32



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Spectrum	·)								
Ref Level	35.00 dBr	n Offset	5.00 dB 👄	RBW 50 k	Hz				
Att	40 dl	B 🖷 SWT	30 ms 👄	VBW 200 k	Hz Mode	Auto Swe	еер		
⊖1Pk View		1	1	-	1				
30 dBm						1[1]			-0.58 dB 91500 MHz
20 dBm						cc Bw 1[1]		-	14486 MHz 13.67 dBm 04200 MHz
10 dBm	D1 12.080	dBm rjur	allitet de loc-lintrates prove	din the second	the hold on the market of the state of the s	try and the second second			
0 dBm							+		
-10 dBm—	D2 -1:	3.920 dBm-					4		
-20 dBm							+		
L-3924280000000	and the	yought					- Uraybilay	alura har word	Marchaster
-40 dBm									
-50 dBm									
-60 dBm									
CF 846.5 M	IHz		·	1001	pts		1	Span	10.0 MHz
					Mea	suring		LXI	18.04.2018 12:52:52

4.1.1.5.3 Test Channel = HCH

Date: 18.APR.2018 12:52:52



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	4.1.1.6.1	Test Cha	nnel = LCH						_
Spectru	m								[₩
Ref Leve	el 35.00 dBn	1 Offset	5.00 dB 🔵 R	. BW 50 kHz	Z				`
e Att	40 dE		30 ms 👄 🖌	'BW 200 kH;	2 Mode	Auto Swee	р		
◯1Pk View							•		
					D1	l[1]			-3.26 dB
30 dBm—								4.	89500 MHz
					00	cc Bw			24476 MHz
20 dBm—					M:	1[1]			10.83 dBm
					1		1	824.	05200 MHz I
10 dBm	D1 12.810	dBm ⊤ ha	All the area and the second	Houndard	and the second second second	Marghall	172		
		Ţ, A.				a landa dha arailteadh	*** \		
0 dBm							1		
		1							
-10 dBm—		MI					<u> </u>		
	D2 -13	3.190 dBm—							
-20 dBm	بر الحبير الم	an il					L L		
Jan Mhaple	NAMATIC MARCH AND A	a danco					'Yormy H	hale and the Halle	Whowwyhe
								0.000.040	manufiling
-30 dBm—									
-40 dBm—									
-50 dBm—									
-30 0011									
-60 dBm—									
CF 826.5	 MHz	1		1001 p	ots			 Span	10.0 MHz
	Ì)	suring		· · · ·	18.04.2018
					mea	suring		1/1	11:45:22

4.1.1.6 Test Mode = LTE/TM2 5MHz

Date: 18.APR.2018 11:45:22



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Spectrum	,)								
Ref Level	35.00 dBm) Offset	5.00 dB 🔵	RBW 50 k	Ηz				
Att 🖉	40 dB	🛛 🖷 SWT	30 ms 😑	VBW 200 k	Hz Mode	Auto Swee	р		
●1Pk View									
30 dBm					M	1[1]			10.77 dBm 07200 MHz
					0	cc Bw			14486 MHz
20 dBm——					D	1[1]		4.	-3.36 dB 88500 MHz
	D1 10 400								
10 dBm	D1 12.400)	dBm Ti	and the state of the second		hhildeninarweithe	for the state of the second	411 <u>7</u> 2		
0 dBm									
		мŁ							
-10 dBm——		<u> </u>							
-20 dBm	——D2 -13	1.600 dBm					A I		
-20 UBIII							(aut)	halletherenty	ال يابين
WAR REMAIN	Murrille	e Arhande					~tront/v	1440M ~ WYWALYA	ann an ann an an ann an an ann an an ann an a
-40 dBm									
-40 00111									
-50 dBm									
-60 dBm								_	
CF 836.5 M	IHZ			1001	. pts			-	10.0 MHz
					Mea	suring		LXI -	18.04.2018 11:49:21

4.1.1.6.2 Test Channel = MCH

Date: 18.APR.2018 11:49:22



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Spectrum	'n								
Ref Level	35.00 dB	m Offse	t 5.00 dB 👄	RBW 50 k	Hz				
Att	40 c	ib 😑 SWT	30 ms 👄	VBW 200 k	Hz Mode	Auto Swe	ер		
⊖1Pk View			-	1	1				
30 dBm						1[1]			-1.51 dB 90500 MHz
20 dBm						cc Bw 1[1]	I	-	14486 MHz 13.92 dBm 04200 MHz
10 dBm	<u>D1 11.700</u>	<u>) dBm T</u>	÷ b*two.v-d,twalijbeth i	at Patricip of a state of the s	ntantaantikatan	www.htt	Mult		
0 dBm		+							
-10 dBm		- ME							
-20 dBm		14.300 dBm-					1		
huseds legelsh lutilited	Hullborlerblade	pp will					Villion, is	an Mariana and a	whymmature
-40 dBm									A LOUGH
-50 dBm									
-60 dBm									
CF 846.5 M	1Hz			1001	. pts			-	10.0 MHz
][Mea	isuring		1,70	18.04.2018 12:55:13

4.1.1.6.3 Test Channel = HCH

Date: 18.APR.2018 12:55:13



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	4.1.1.7.1	Test Cha	nnel = LCH	1					_
Spectru	m								
Ref Lev	el 35.00 dBm	1 Offset	5.00 dB 👄	RBW 100 kH	łz				
🖷 Att	40 dE	B 🔵 SWT	30 ms 👄	∨BW 300 kH	iz Mode	Auto Swee	р		
😑 1Pk View									
					D	1[1]			-1.82 dB
30 dBm—									9.7300 MHz
						cc Bw			48951 MHz
20 dBm—					M	1[1]			12.14 dBm
						I	I.	824	F.1050 MHz
10 dBm—	D1 13.170		mound when all	hut manda	a mar and a particular	and which where the	T2		
						in an and the Ma	Γ.Υ.		
0 dBm									
0 uBIII									
		M					$ \rangle$		
-10 dBm—	no 10	2.830 dBm-					di di		
	02 -12	2.030 0611					 		
-20 dBm—							+		
a an ba	who and the second	Morrie					Level a	ana na baltatu a s	unter man
-30 dBm—							* "VVI-	չ, շափաշտեր	water the second
40.10									
-40 dBm—									
-50 dBm—									
-60 dBm—									
CF 829.0	MHZ			1001	pts			-	20.0 MHz
	Ц				Mea	suring		LXI	18.04.2018 11:19:15

4.1.1.7 Test Mode = LTE/TM1 10MHz

Date: 18.APR.2018 11:19:16



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	4.1.1.7.2	Test Cha	nnel = MCH						
Spectrur	n								
Ref Leve	I 35.00 dBm	Offset	5.00 dB 🔵 RE	W 100 k⊢	lz				
🖷 Att	40 dB	s 🔵 SWT	30 ms 👄 VE	SW 300 kH	lz Mode	Auto Sweej	р		
⊖1Pk View									
					D	1[1]			-2.17 dB
30 dBm									.7300 MHz
						CC BW			48951 MHz
20 dBm—					M	1[1]			11.66 dBm 6650 MHz
	D1 13.720	 dBm					ļ	001	.0030 MHZ
10 dBm	DI 13.720	ubili T1 	Longeton all mult	والمعالية والمعالية	unter many of the	egolomentedburget	4 4 2		
		ľ					I Y		
0 dBm									
0 ubiii									
		ML					1		
-10 dBm—		2.280 dBm-							
	02 12						1 1		
-20 dBm—							<u> </u>		
-300dBm+	hul burninger	1 Martin					holdel the	Holped Mary	upper the second of the second
Mr. M. M.	n daraho manahar	un ~							and frather the
-40 dBm—									
-50 dBm—									
-60 dBm—									
CF 836.5 I	MHz			1001	pts			Span	20.0 MHz
) Mea	suring		170	18.04.2018 11:27:14

Date: 18.APR.2018 11:27:14



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	4.1.1.7.3	Test Cha	nnel = HCF	1					
Spectru	m								
Ref Lev	el 35.00 dBm	n Offset	5.00 dB 👄 F	RBW 100 kł	Ηz				
🔵 Att	40 dE	B 👄 SWT	30 ms 👄 🎙	/BW 300 kł	Hz Mode	Auto Swee	р		
😑 1Pk View	/								
00 dB					D	1[1]			-2.17 dB
30 dBm—						_			.7500 MHz
						CC BW			48951 MHz
20 dBm—					IVI	1[1]			10.69 dBm).1250 MHz
	D1 13.990	l dBm					+	005	1200 MHZ
10 dBm—		T LUM	hourself	worthanyou	Melicula	and the mail of the second second	12 Max		
0 dBm									
0 ubiii									
		M1					1 1.		
-10 dBm—	D2 -12	2.010 dBm					t up		
							1 7		
-20 dBm—	· · · · ·	\vdash					<u>├ </u>		
	Lucia and a	a All					hul.		
Allowell	populationstation	יין ויי					7.hlurhi	Muther Miles	Vour mere
1000 -								. Hana Charle	Wyesh mer
-40 dBm—									TT WHAT LAD
-40 ubiii									
-50 dBm—									
-60 dBm—									
05.044.0				1001				0	00.0 MU
CF 844.0				1001			_		20.0 MHz
L					Mea	suring		LXI	11:29:07

Date: 18.APR.2018 11:29:08



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	4.1.1.8.1	Test Cha	nnel = LCH						_
Spectru	m								
Ref Lev	el 35.00 dBr	n Offset	5.00 dB 👄 RB	W 100 kH	z				
🛛 Att	40 di	B 👄 SWT	30 ms 👄 VB	W 300 kH:	z Mode	Auto Swee	р		
😑 1Pk View	/								
					D	l[1]			-0.67 dB
30 dBm—									.7300 MHz
						cc Bw			68931 MHz
20 dBm—					M	1[1]			13.50 dBm 1.1650 MHz
							1	027	1000 0012
10 dBm—	D1 12.270	dBm Th	and all and a start	month Ale	ht and a chu		. <u>7</u> 2		
				· · ·	where we have a	off on Alder A	WW P		
0 dBm									
0 00111									
10 -10							L N		
-10 dBm—	D21	3.730 dBm-					d 1		
		1 (1		
-20 dBm—	What was	hora and the second					1.		
phylor w www.	montante						where a	har when the states	Mullin mar
-30 dBm—									0. 200 I (fr
-40 dBm—	_								
-50 dBm—									
-30 UBIII—									
-60 dBm—									
CF 829.0	MHz	1		1001	pts		1	ı Span	20.0 MHz
-					1	suring		-	18.04.2018
						saring			11:24:21

4.1.1.8 Test Mode = LTE/TM2 10MHz

Date: 18.APR.2018 11:24:20



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	4.1.1.8.2	Test Cha	nnel = MCH						
Spectrur	n								
Ref Leve	el 35.00 dBm	n Offset	5.00 dB 🔵 R	BW 100 ki	Ηz				
🔵 Att	40 dE	8 👄 SWT	30 ms 👄 V	BW 300 ki	Hz Mode	Auto Swee	p		
◯1Pk View									
					D	1[1]			-0.34 dB
30 dBm—								9	.7500 MHz
						CC BW			68931 MHz
20 dBm					M	1[1]			12.98 dBm
						1	1	831	6450 MHz
10 dBm	D1 12.970	dBm	un a allor a all	handertrade	angladiction three	molynamia	hulltz		
		1 Ym							
							1 {		
0 dBm									
-10 dBm—		MA							
	D2 -13	3.030 d <mark>B</mark> m					1		
-20 dBm—									
		l d					Hickory	dud .	
and the second	humantinterite	and Noll					, minut	a management of the	Mr. And M. Lee, also
LABO UBM	00000000								as ana fuidh
-40 dBm—									
-50 dBm—									
00 dbin									
-60 dBm—									
CF 836.5	u MHz	1		1001	pts	1	1	' Span	20.0 MHz
					Mea	asuring		LXI	8.04.2018 11:25:39

Date: 18.APR.2018 11:25:39



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	4.1.1.8.3	Test Cha	nnel = HCl	4					
Spectrun	n								
Ref Leve	l 35.00 dBm	n Offset	5.00 dB 😑	RBW 100 kH	Ηz				
🖷 Att	40 dB	s 🔵 SWT	30 ms 👄	VBW 300 kH	Hz Mode	Auto Swee	р		
⊖1Pk View									
					D	1[1]			-2.17 dB
30 dBm									.7500 MHz
						CC BW			48951 MHz
20 dBm					M	11[1]			10.69 dBm .1250 MHz
	D1 13.990)	 dBm						835	1230 MHZ
10 dBm	DI 13,990		handlichand	hunorthangroup	mellocalysing	mand million	12		
							17)		
0 dBm		ľ							
0 uBIII									
		M							
-10 dBm—		2.010 dBm-					<u>h</u>		
							1		
-20 dBm—							+		
		n hild					1 101		
A HORE BURNER	munimitter	MUN.					"Under Here State	Muther at Hill Land	
10.00.00 craft 11 x								" "Not dury	Which mus
									and the
-40 dBm—									
-50 dBm—									
-60 dBm—									
00 40111									
CF 844.01	MHz			1001	pts			Span	20.0 MHz
) Mea	asuring		1 70	8.04.2018 11:42:15

Date: 18.APR.2018 11:42:16



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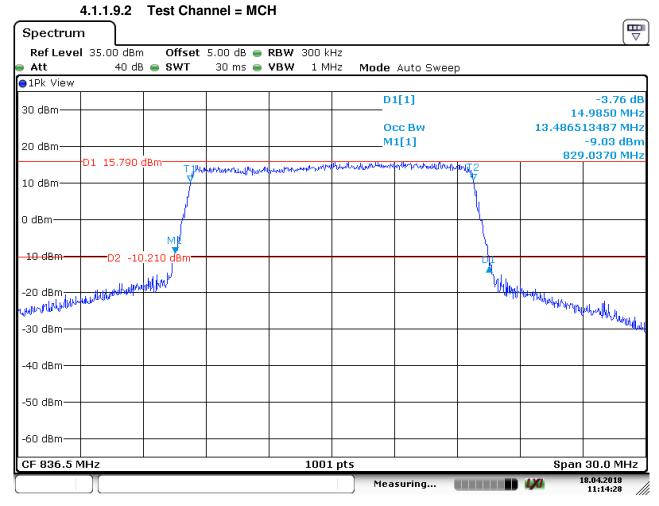
	4.1.1.9.1	Test Cha	nnel = LCH						
Spectru	m								
Ref Lev	el 35.00 dBm	n Offset	5.00 dB 🔵 R	BW 300 kH	łz				
👄 Att	40 dE		30 ms 👄 V			Auto Sweep	D		
😑 1Pk View									
					M	1[1]			-8.98 dBm
30 dBm—								823	.9780 MHz
					0	cc Bw		13.5464	53546 MHz
20 dBm—	_				D:	1[1]			-1.51 dB
	D1 16.360	dBm 	Mer tom to with with		.lt	ا م م		14	.9850 MHz
10 dBm—		1	- un town when the	and and a second	-fillenan hann	and a sail and the sector of the	~4 <u>2</u>		
TO UBIII-									
							ų		
0 dBm——		<u> </u>							
		M.					ի կ		
-10 dBm-	D2 -9.	640 dBm							
	under adel ruthed	Mynn					- Turny	ulus i	Handomotinatu
-20 dBm++	With the second						×11 × 1	n huling	Hana I
ho. 00/10									and another for the second
-30 dBm—									
-40 dBm—									
-50 dBm—									
-60 dBm—									
05 001 5				1001				0	00 0 MU-
CF 831.5	MINZ			1001			_		30.0 MHz
L					Mea	suring 🚺		LX1	11:15:24

4.1.1.9 Test Mode = LTE/TM1 15MHz

Date: 18.APR.2018 11:15:25



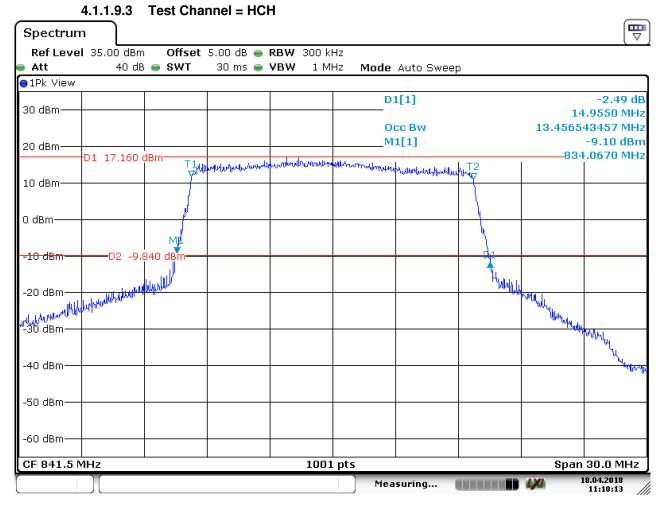
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	4.1.1.10.1	Test Cha	nnel = LCH						
Spectru	m								
Ref Lev	el 35.00 dBm	n Offset	5.00 dB 👄 F	RBW 300 kH	łz				
Att		B 👄 SWT	30 ms 👄 \	VBW 1 MH	lz Mode	Auto Swee	р		
●1Pk View	, 	1							
30 dBm					D:	1[1]			-0.50 dB
00 00.00					0	CC BW			i.0450 MHz 53546 MHz
00 ID						1[1]		10.0404	-9.93 dBm
20 dBm—	D1 15 000							824	1.0370 MHz
	D1 15.800	asm ∣⊤⊉ ^{ՠֈֈ}	minhelenter	mundulturturt	handworkelagheter	Multiplaterially	uhnt 2		
10 dBm—		*					7		
0 dBm		<u> </u>					<u> </u>		
		МІ					ų į		
10 dBm-	D2 -10).200 dBm					01		
		In the second					L L .		
للسطعه أرود	Warder Aller And Aller	ար					Mayuh	Harals .	
A TATA MARANA								o , a der aller freiher der ber	Williaman
-30 dBm—									
-40 dBm—									
-50 dBm—	_								
-60 dBm—									
CF 831.5	MHz			1001	pts			Span	30.0 MHz
					Mea	suring		1,70	18.04.2018 11:17:12

4.1.1.10 Test Mode = LTE/TM2 15MHz

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Spectrum				-					
Ref Level	L 35.00 dBm	Offset	5.00 dB 🔵 R	BW 300 kHz					(*
🖷 Att	40 dB	🗉 SWT	30 ms 👄 🖌		Mode Au	to Sweep			
●1Pk View									
30 dBm					D1[1]		14	-2.85 dB .9250 MHz
20 dBm					Occ M1[1				13487 MHz -8.25 dBm
	D1 16.460(dBm	Less states and a	workerthand	Windowska	Manharhanala T2	1	829	.0670 MHz
10 dBm			anna hairean anna	(A-OUC-OUT OFFICE OF					
0 dBm							4		
-10 dBm	D2 -9.	540 dBm					h -		
20 dBm-+	hand the many helf	burldy					Jun pur	n Marcale	Muturururu
hallen oor of the second s								~~~~	Manushipunghu
-30 dBm—									
-40 dBm									
-50 dBm									
-60 dBm									
CF 836.5 M	1Hz			 1001 pt	.s			Span	30.0 MHz
][Measur	ing 🚺			8.04.2018 11:13:08

4.1.1.10.2 Test Channel = MCH

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Spectrum								
-	35.00 dBm	Offset	5.00 dB 👄 RBW	300 kHz				(v
Att		SWT	30 ms 💿 VBW		Mode Auto Sw	reen		
●1Pk View		-	_					
30 dBm					D1[1]		14	-2.32 dB .7750 MHz
20 dBm					Occ Bw M1[1]			73427 MHz -8.38 dBm
	D1 16.500 (dBm					834	.1270 MHz
10 dBm		тин	harman water but the share	anaranandh nar	Whiteman	wilning		
0 dBm								
		M						
-10 dBm		500 dBm				<u>н</u>		
-20 dBm	Hind had made to be deal	an hara				V ^{ar} nu)	Mu.	
-20 dBm ավիսիվազիկո -30 dBm	llhohttaa						" "Mandy land	
-30 dBm—							Helley los blog part	Photo In the second sec
-40 dBm								4. Matarian
-50 dBm								
-60 dBm								
CF 841.5 M	1Hz			 1001 pts	 ;		 Span	30.0 MHz
)[]				Measuring		1,70	8.04.2018 11:11:55

4.1.1.10.3 Test Channel = HCH

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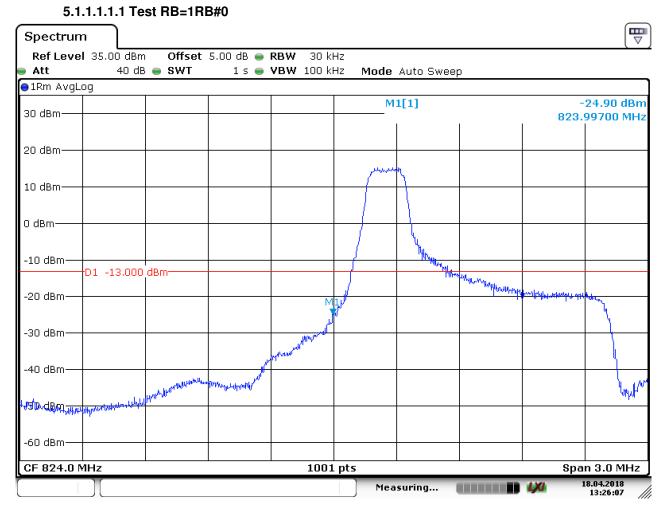
5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE band26

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH



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Spectrun	ī								
Ref Leve	l 35.00 dBm		5.00 dB 👄						`
🗕 Att		B 😑 SWT	1 s 👄	VBW 100 ki	Hz Mod	e Auto Swee	р		
😑 1Rm AvgLi	og								
30 dBm						M1[1]	1		31.40 dBm 99700 MHz
20 dBm									
10 dBm					مانيوان ر	w-yertugangrow	Hurray Marine	the free to be a second	4
0 dBm									$\left \right $
-10 dBm—	-D1 -13.000	dBm							
-20 dBm	10.000								\square
-30 dBm		- margaret	who was alward werd	M مىلىرىلىلىمالىمىللىرىكى	1				horder
"AQ.,dBm		horften							
-50 dBm									
-60 dBm									
CF 824.0 N	/IHz		•	1001	pts	•		Spa	n 3.0 MHz
) M	easuring		1/0 ¹	8.04.2018 13:25:40

5.1.1.1.1.2 Test RB=6RB#0

Date: 18.APR.2018 13:25:40

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5.1.1.1.2.1 Test RB=1RB#5 ₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz 40 dB 💿 SWT 1 s 👄 **VBW** 100 kHz Att Mode Auto Sweep ●1Rm AvgLog M1[1] -29.94 dBm 30 dBm-849.00300 MHz 20 dBm-10 dBm⁻ 0 dBm· -10 dBm-Jugar D1 -13.000 dBm monther -20 dBm. -30 dB<mark>m</mark> huruman 40 d<mark>8</mark>m With which many which which is the -50 dBm to many level of the many work -60 dBm-Span 3.0 MHz CF 849.0 MHz 1001 pts 18.04.2018 Measuring... 13:24:35

5.1.1.1.2 Test Channel = HCH

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Spectrun	n)								
Ref Leve	I 35.00 dBm		5.00 dB 👄						(-
Att		🖷 SWT	1 s 👄	VBW 100 k	Hz Mode	Auto Swee	р		
😑 1Rm AvgL(og								
30 dBm					M	1[1]	1		35.29 dBm 00300 MHz
20 dBm									
10 dBm									
0 dBm	antakun san san san san san san san san san sa	a an	n-falenterine en e	-					
-10 dBm	D1 -13.000	dBm							
-20 dBm									
-30 dBm									
درسیس -40 dBm——				L Cr	1 www.manplaneters.	and the part where and	programming and a second second		
								My John Martin	Markan Markan Marka
-50 dBm——									
-60 dBm									
CF 849.0 N	MHz			100:	L pts			-	n 3.0 MHz
					Mea	suring		1/0	18.04.2018 13:24:54

5.1.1.1.2.2 Test RB=6RB#0

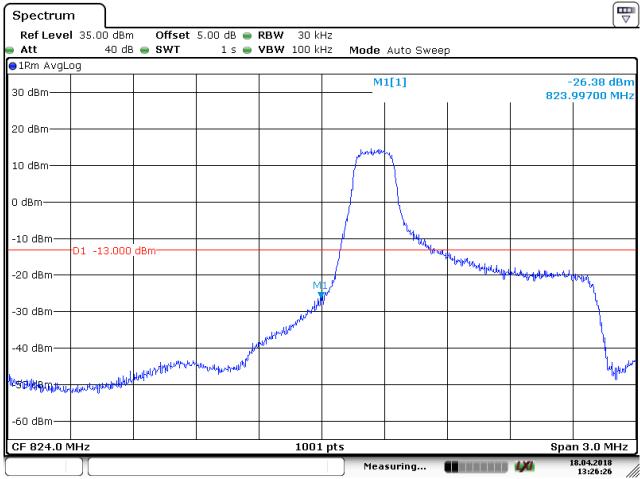
Date: 18.APR.2018 13:24:55



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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#0



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Spectrum	ī								
Ref Level	I 35.00 di	Bm Offse	et 5.00 dB 👄	RBW 30 k	Ηz				
🕳 Att	40	dB 🔵 SWT	1 s 👄	VBW 100 k	Hz Mode	Auto Swee	эр		
😑 1Rm AvgLo	og								
30 dBm					M	1[1]			27.59 dBm 99700 MHz
20 dBm									
10 dBm					Junall	and the second of the second o	yound with the second states	milpittonthanman	
0 dBm									+
-10 dBm	D1 -13.0	0 dBm							_
-20 dBm				M	1				<u> </u>
-30 dBm		Marine	had on the plant with the last	man rug your work	ω/				Hopewar
u¦₀ [#] Q₀dBm <u>∽√~</u>	your have								
-50 dBm									
-60 dBm									
CF 824.0 M	1Hz			1001	pts				1 3.0 MHz
					Mea	suring		1/0 1	8.04.2018 13:26:43

5.1.1.2.1.2 Test RB=6RB#0

Date: 18.APR.2018 13:26:43

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5.1.1.2.2.1 Test RB=1RB#5 ₩ Spectrum Offset 5.00 dB 💿 RBW Ref Level 35.00 dBm 30 kHz 40 dB 💿 SWT 1 s 👄 **VBW** 100 kHz Att Mode Auto Sweep . ●1Rm AvgLog M1[1] -29.54 dBm 30 dBm-849.00300 MHz 20 dBm-10 dBm⁻ 0 dBm· -10 dBm-للري D1 -13.000 dBm -20 dBm -30 dB<mark>m</mark> -40 d<mark>β</mark>m -50 dBm 111 Manus mound of the for the should be the -60 dBm-Span 3.0 MHz CF 849.0 MHz 1001 pts 18.04.2018 Measuring... 13:24:11

5.1.1.2.2 Test Channel = HCH

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●1Rm AvgLog 	Ref Level 35.00 dBm Att 40 dB		 RBW 30 kHz VBW 100 kHz Mod 	de Auto Sweep	
30 dBm 849.00300 20 dBm 10 dBm 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm 10 dBm	1Rm AvgLog			'	
10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -40 dBm -40 dBm -40 dBm -10 dB	30 dBm			M1[1]	-33.18 dBr 849.00300 MH
0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm -20 d	20 dBm				
-10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	LO dBm				
-20 dBm -20 dBm -30 dBm -40 dBm) dBm				
-20 dBm -30 dBm -40 dBm		d8 m			
-40 dBm	/				
	30 dBm				
			We wanted to a for the	where we are a stand and the s	www.
-60 dBm	60 dBm				

5.1.1.2.2.2 Test RB=6RB#0

Date: 18.APR.2018 13:23:20



5.1.1.3 Test Mode = LTE/TM1 3MHz

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5.1.1.3.1 Test Channel = LCH 5.1.1.3.1.1 Test RB=1RB#0 ₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 100 kHz Mode Auto Sweep ●1Rm AvgLog M1[1] -21.13 dBm 30 dBm-823.99400 MHz 20 dBm-10 dBm-0 dBm--10 dBm-D1 -13.000 dBm r -20 dBmmun Anny ^{To} Deligion WWWWWWWWWWWWWWW MMM -30 dBm -40 dBm--50 dBmalmost gradient whilender -60 dBm CF 824.0 MHz 1001 pts Span 6.0 MHz 18.04.2018 **1** Measuring... 11 13:28:22

Date: 18.APR.2018 13:28:23



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Spectrum	,)									Ę	V
Ref Level	35.00 dBm	Offset	5.00 dB 😑	RBW 30 kł	Ηz						_
🖷 Att	40 dB	😑 SWT	1 s 👄	VBW 100 kł	Ηz	Mode	Auto Swee	р			
⊖1Rm AvgLo)g										
30 dBm						M	1[1] I	1		32.03 dB 99400 MF 	
20 dBm											
10 dBm											
0 dBm					-	moherm	uhayllanaltaatha	andurununununun	rannappanana	hurthmosthyme	
-10 dBm	D1 -13.000										
-20 dBm	DI -13,000				1						ł
-30 dBm				м	Ĺ						4
-40 dBm +444	unallehentrangehrung	manhorauthorau	a loul regenerations	down of the state							
manual											
-50 dBm											
-60 dBm											
CF 824.0 M	1Hz	I	I	1001	pts		<u> </u>	I	Spa	n 6.0 MH:	z
)[]					Mea	suring		1,70	18.04.2018 13:28:40	

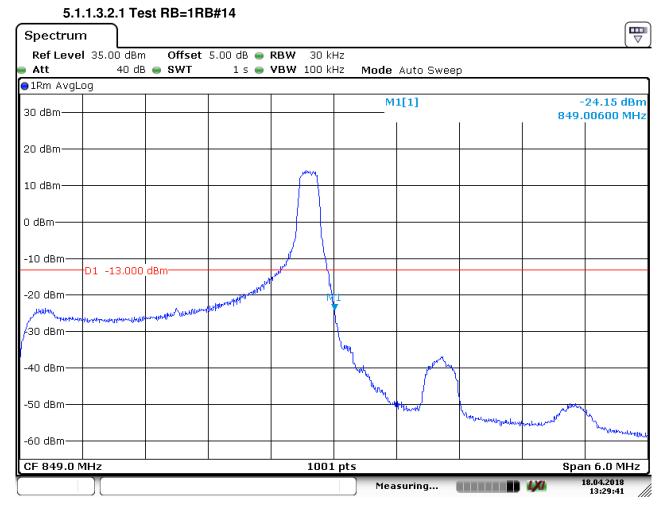
5.1.1.3.1.2 Test RB=15RB#0

Date: 18.APR.2018 13:28:40



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5.1.1.3.2 Test Channel = HCH



Date: 18.APR.2018 13:29:42



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Spectrum	1.0.2.2.10								
Ref Level	35.00 dBm	Offset	5.00 dB 👄	RBW 30 ki	Ηz				
Att		SWT	1 s 👄	VBW 100 ki	Hz Mode	Auto Sweep	0		
●1Rm AvgLc	og			•					
30 dBm					M	1[1]	I		34.22 dBm 00600 MHz I
20 dBm									
10 dBm									
O demand	human dan menerangkan di kana d	Malukanonana	Anna walan takana	unterrition .					
-10 dBm	D1 -13.000	dBm							
-20 dBm				$\left \right\rangle$					
/ -30 dBm					L.				
-40 dBm					L	upart a moderia	handradenergiales	dut when have the design	
-50 dBm							. m. H. P. American		Mar water
-60 dBm									
CF 849.0 M	lHz		1	1001	. pts	1	1	Spa	n 6.0 MHz
][]					suring (18.04.2018 13:29:57

5.1.1.3.2.2 Test RB=15RB#0

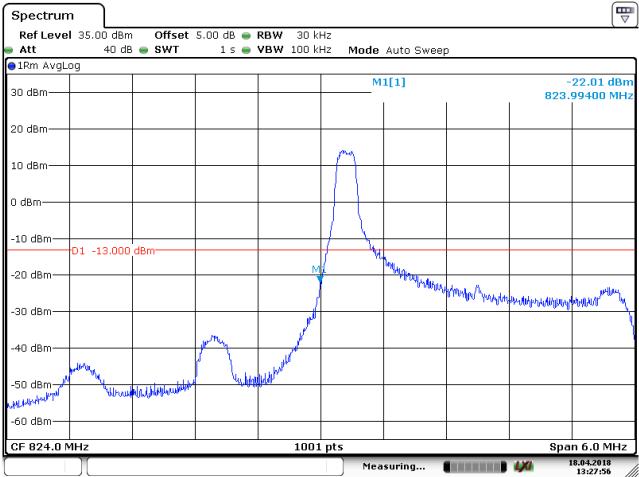
Date: 18.APR.2018 13:29:57



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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#0



Date: 18.APR.2018 13:27:57



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Spectrum	ī								
Ref Level	l 35.00 dBm	Offset	5.00 dB 👄	RBW 30 kł	Ηz				
🗕 Att	40 dB	s 🔵 SWT	1 s 😑	VBW 100 kł	Hz Mode	Auto Swee	р		
iRm AvgLo	og								
30 dBm					M	1[1]	1		·29.35 dBm 99400 MHz
20 dBm									
10 dBm									
0 dBm					pouloralitati	alan filler aler aler filler filler	hat no has the state of the sta	mbhopping	Wyurtur arsign
-10 dBm	D1 -13.000	dBm							
-20 dBm	DI -13.000				<u> </u>				
-30 dBm				M https://www.way.uku					1
-30 dBm -40 dBm	waa waa waa ahaa ka k	whenter	bloc and in the second						
-50 dBm									
-60 dBm									
CF 824.0 M	1Hz			1001	pts			Spa	n 6.0 MHz
					Mea	suring		LXI	18.04.2018 13:27:35

5.1.1.4.1.2 Test RB=15RB#0

Date: 18.APR.2018 13:27:35



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5.1.1.4.2.1 Test RB=1RB#24 ₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 100 kHz Mode Auto Sweep ●1Rm AvqLoq -24.71 dBm M1[1] 30 dBm-849.00600 MHz 20 dBm-10 dBm⁻ 0 dBm--10 dBm-D1 -13.000 dBm--20 dBmunit when Hundry prophy prophy page and and a second 30 dBm -40 dBm-Wh. W -50 dBma lyper the twee "Heren Maryadowics Warrhor up the house -60 dBm-CF 849.0 MHz 1001 pts Span 6.0 MHz 18.04.2018 Measuring... lli 13:30:34

5.1.1.4.2 Test Channel = HCH

Date: 18.APR.2018 13:30:34



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Spectrum	ı								
Ref Leve			f set 5.00 dB		kHz				`
e Att		dB 🔵 SV	/T 1s	VBW 100	kHz Mode	Auto Swee	р		
<mark>⊜</mark> 1Rm AvgLi	og		1		-1				
30 dBm					M	11[1]	1		32.60 dBm 00600 MHz
20 dBm									
10 dBm									
o dibim <u>lationan</u>	the production of the second	un and and the	e-u-den-yr.coghu-stars	unipurunderipa					
-10 dBm	D1 -13.0								
-20 dBm					1				
/ -30 dBm					Ng				
-40 dBm					bed man approved for	1444+4444 decolor	a work way be way		
-50 dBm							muu	the second description of the	hey muniplem
-60 dBm									
CF 849.0 N	/IHz			100	1 pts			 Spa	n 6.0 MHz
					Mea	asuring		1/0	18.04.2018 13:30:15

5.1.1.4.3 Test RB=15RB#0

Date: 18.APR.2018 13:30:16



5.1.1.5 Test Mode = LTE/TM1 5MHz

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5.1.1.5.1 Test Channel = LCH 5.1.1.5.1.1 Test RB=1RB#0 ₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ●1Rm AvgLog M1[1] -21.82 dBm 30 dBm-823.99000 MHz 20 dBm-10 dBm-0 dBm--10 dBm-D1 -13.000 dBm -20 dBm-Himmer Mar Mar and Mar Andreas -30 dBm ካጠ -40 dBm Ulapholar but and a Wellyne weber malletellen allente -50 dBm-HUNLING MART -60 dBm-CF 824.0 MHz 1001 pts Span 10.0 MHz 18.04.2018 Measuring... 11 13:38:55

Date: 18.APR.2018 13:38:55



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Spectrum	ī										
Ref Level				5.00 dB 👄							
e Att		O dB 🧉	SWT	1 s 👄	VBW 200 k	Hz	Mode	Auto Swe	ер		
⊖1Rm AvgLo	og			1	-						
30 dBm							M	1[1] I	1		-31.17 dBm 99000 MHz
20 dBm											
10 dBm											
0 dBm							مەلەرسىمىرىمى	e-Tleevereix	andraamadriineeden	-	www.weekana
-10 dBm											
-20 dBm	D1 -13.	.000 dB	m								
-30 dBm					M	ł					
	مرور المراجع	anna	walkander allowed	and the second states	many of the second s						
-40 dBm	an fail ann an thair										
-50 dBm											
-60 dBm											
CF 824.0 M	1Hz				1001	L pt:	s			-	10.0 MHz
							Mea	suring		L)O	18.04.2018 13:38:25

5.1.1.5.1.2 Test RB=25RB#0

Date: 18.APR.2018 13:38:25



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5.1.1.5.2.1 Test RB=1RB#24 ₩ Spectrum Offset 5.00 dB 💿 RBW Ref Level 35.00 dBm 50 kHz 40 dB 💿 SWT 1 s 👄 **VBW** 200 kHz Att Mode Auto Sweep . ●1Rm AvgLog M1[1] -24.79 dBm 30 dBm-849.01000 MHz 20 dBm-10 dBm⁻ 0 dBm· -10 dBm-D1 -13.000 dBm anna frankarten -2<mark>@`</mark>dBm· W1 .≱o dBm™ -40 dBm -50 dBm landling mary Howyoupp -60 dBm-Span 10.0 MHz CF 849.0 MHz 1001 pts 18.04.2018 Measuring... 13:32:25

5.1.1.5.2 Test Channel = HCH

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Spectrum		5(110=20)							
	35.00 dBm		5.00 dB 👄						
Att 🖉		🛛 👄 SWT	1 s 👄	VBW 200 kł	Hz Mode	Auto Sweep	2		
●1Rm AvgLo	ig								
30 dBm					M	1[1]			35.94 dBm 01000 MHz
20 dBm									
10 dBm									
o dBm	<u>સંખયપંગ-સંવેશ/-૧૪૧૫/-</u>	ulutantylikyynyty	and and a state of the second state of the sec	- martinette					
-10 dBm	D1 -13.000	dBm							
-20 dBm									
-30 dBm					1				
-40 dBm					Manager and a second	- Margallinghayang	evil al no	Nu-hathaumanana	
-50 dBm							r and the reality of the reality of the real of the re	nju-hothaanna henu	and form where
-60 dBm									
CF 849.0 M	Hz		1	1001	pts			Span	10.0 MHz
][]				Mea	suring (1,70	8.04.2018 13:32:44

5.1.1.5.2.2 Test RB=25RB#0

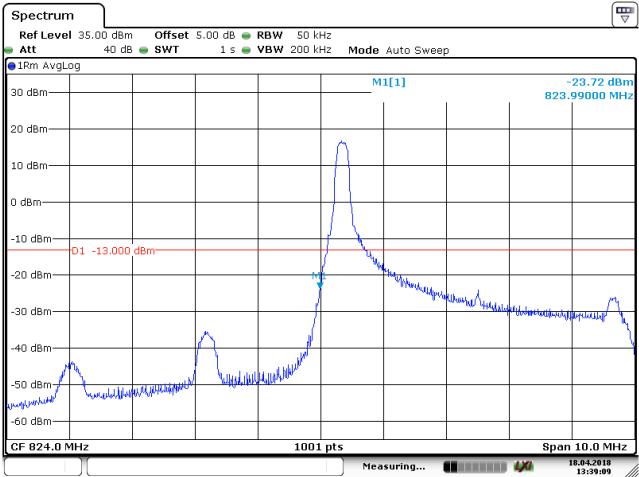
Date: 18.APR.2018 13:32:44



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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#0



Date: 18.APR.2018 13:39:10



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Spectrum	1)												
Ref Level	35.0	IO dBm	C)ffset	5.00 di	3 😑	RBW	50 kl	Ηz					· · · ·
🖷 Att		40 dB	😑 S	WT	1 :	s 😑	VBW	200 kl	Ηz	Mode	Auto Swe	еер		
⊖1Rm AvgLo	og													
30 dBm										M	1[1]	I		-28.48 dBm .99000 MHz
20 dBm														
10 dBm														
0 dBm										portforgation	han an a	madaminintendente	~b~b~~where the state of the st	mitrore and the second
-10 dBm	D1 -1	.3.000	dBm-											
-20 dBm								м						+
-30 dBm			. an ethod	بالمهابل	1 formantion of	al front	ulymor utau							1
-40 dBm	HAR BURNER	Welftratter	50 ° 0 °											
-50 dBm														
-60 dBm														
CF 824.0 M	1Hz							1001	. pt	s			Spar	n 10.0 MHz
										Mea	suring		l LXI	18.04.2018 13:39:35

5.1.1.6.1.2 Test RB=25RB#0

Date: 18.APR.2018 13:39:35

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5.1.1.6.2.1 Test RB=1RB#24 ₩ Spectrum Offset 5.00 dB 💿 RBW Ref Level 35.00 dBm 50 kHz 40 dB 💿 SWT 1 s 👄 **VBW** 200 kHz Att Mode Auto Sweep . ●1Rm AvgLog M1[1] -23.48 dBm 30 dBm 849.01000 MHz 20 dBm-10 dBm⁻ 0 dBm· -10 dBm-WWW H D1 -13.000 dBm -20 dBmhere a superior of the second **Whenluk** 30 d&mr 40 dBm Why. -50 dBm Milliogua stranburgers Maryanaparta -60 dBm-Span 10.0 MHz CF 849.0 MHz 1001 pts 18.04.2018 Measuring... 13:32:04

5.1.1.6.2 Test Channel = HCH

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Spectrum	ı)								
Ref Level	35.00 dBm	offset	5.00 dB 👄	RBW 50 ki	Ηz				X
🗕 Att		s 🔵 SWT	1 s 👄	VBW 200 ki	Hz Mode	Auto Sweep	0		
●1Rm AvgLc	og								
30 dBm					M	1[1] 	I		34.07 dBm 01000 MHz
20 dBm									
10 dBm									
	orterlandet og fra sokter	ang gan ang ang ang ang ang ang ang ang	ann an ann an an ann an an an an an an a	tenter and the second second					
-10 dBm	D1 -13.000	dBm							
-20 dBm				$\left \right $					
-30 dBm				4	1				
-40 dBm					human	Malayda dwydwadydau y	white when the start of		
-50 dBm							····· 1044	and an and the second	mannen
-60 dBm									
CF 849.0 M	1Hz	1	1	1001	. pts		1	l Span	10.0 MHz
][]				Mea	suring		1,70	8.04.2018 13:31:32

5.1.1.6.2.2 Test RB=25RB#0

Date: 18.APR.2018 13:31:33

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5.1.1.7 Test Mode = LTE/TM1 10MHz

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13:41:53

5.1.1.7.1 Test Channel = LCH 5.1.1.7.1.1 Test RB=1RB#0 Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🖷 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ●1Rm AvgLog M1[1] -25.07 dBm 30 dBm-823.9800 MHz 20 dBm-10 dBm-0 dBm--10 dBm-D1 -13.000 dBm ١. -20 dBm-Hand Market Market with a strate of the state of the stat -30 dBm--40 dBm refuter beat get -50 dBm; 1. M harmon and all and a second and a -60 dBm-CF 824.0 MHz 1001 pts Span 20.0 MHz 18.04.2018 Measuring...

Date: 18.APR.2018 13:41:54



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Spectrum		5(110-50)	10#0						
	35.00 dBm		5.00 dB 👄						('
Att) 🛑 SWT	1 s 👄	VBW 300 kł	Hz Mo	o de Auto Sw	еер		
⊖1Rm AvgLo)g			1					
30 dBm						M1[1]	I		33.52 dBm 3.9800 MHz
20 dBm									
10 dBm									
0 dBm						and the second	An martin and the second second	man lash may 14	and and rate my
-10 dBm									
	D1 -13.000	dBm							
-20 dBm									
-30 dBm]				
			Auranteenentymeter	markeningues	F				
-40 dBm	needen sound and	addinenthrough []							
-50 dBm									
-60 dBm									
CF 824.0 M	IHz			1001	pts			 Span	20.0 MHz
)[]					Measuring		1,70	18.04.2018 13:42:13

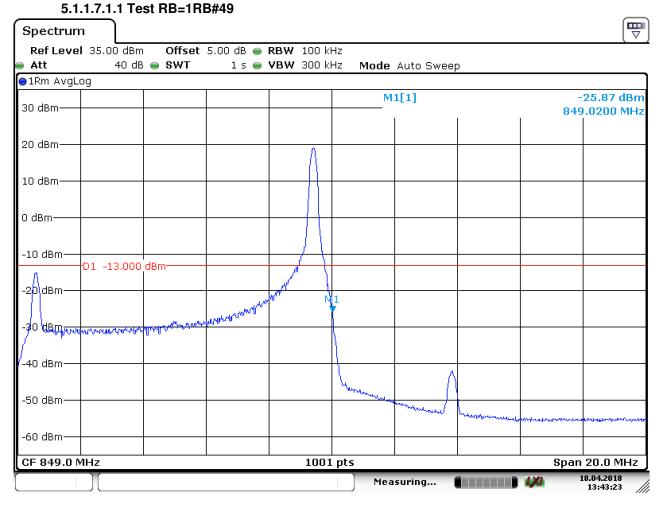
5.1.1.7.1.2 Test RB=50RB#0

Date: 18.APR.2018 13:42:13



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5.1.1.7.1 Test Channel = HCH



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Spectrum		5(110-50)							
	35.00 dBm			RBW 100 k					
🔵 Att		🖷 SWT	1 s 👄	VBW 300 k	Hz Mode	Auto Swee	р		
●1Rm AvgLo	ig								
30 dBm					M	1[1]	1		·36.28 dBm 9.0200 MHz
20 dBm									
10 dBm									
0 dBm		·····							
-10 dBm	D1 -13.000	dBm							
-20 dBm									
-30 dBm					1				
-40 dBm					human				
-50 dBm									
-60 dBm									
CF 849.0 M	Hz	I	I	1001	pts	I	I	Span	20.0 MHz
][]				Mea	suring		1,70	18.04.2018 13:42:59

5.1.1.7.1.2 Test RB=50RB#0

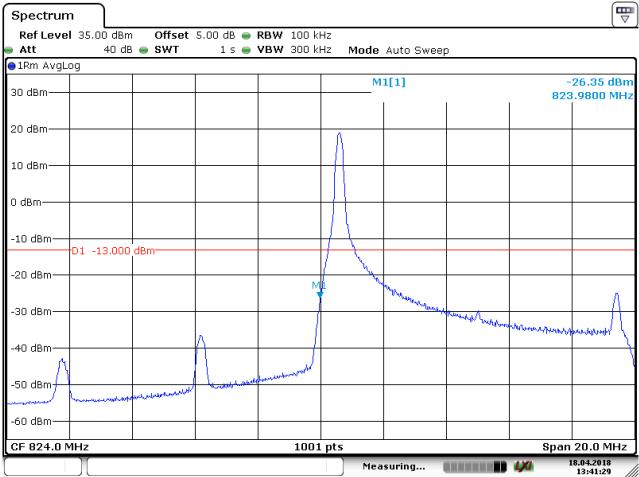
Date: 18.APR.2018 13:43:00



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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#0



Date: 18.APR.2018 13:41:30



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Spectrum	n	ך													(∀
Ref Leve	I 35.	00 dBm	n C)ffset	5.00 dE	3 👄	RBW	100 kH	Ηz						`	<u> </u>
🕳 Att		40 dB	5 🕳 S	WT	1 9	5 👄	VBW 3	300 kH	Ηz	Mode	e Auto Sw	еер				
😑 1Rm AvgLi	og															
30 dBm										N	11[1]				-30.73 d 3.9800 M	
20 dBm																
10 dBm																
0 dBm												un ya	~~~~~	W ^{ang} an Manada Sangaran		
-10 dBm—	D1 -	13.000	dBm-						_							
-20 dBm—									1						<u> </u>	+
-30 dBm					auguna mare	yerne	operand and	M	<u>}</u>							_
-40 dBm	and the second															
-50 dBm																
-60 dBm								100								
CF 824.0 N	1Hz							1001	pt	:s				_	n 20.0 MI	_
										Me	asuring			LX0	18.04.2018 13:40:45	

5.1.1.8.1.2 Test RB=50RB#0

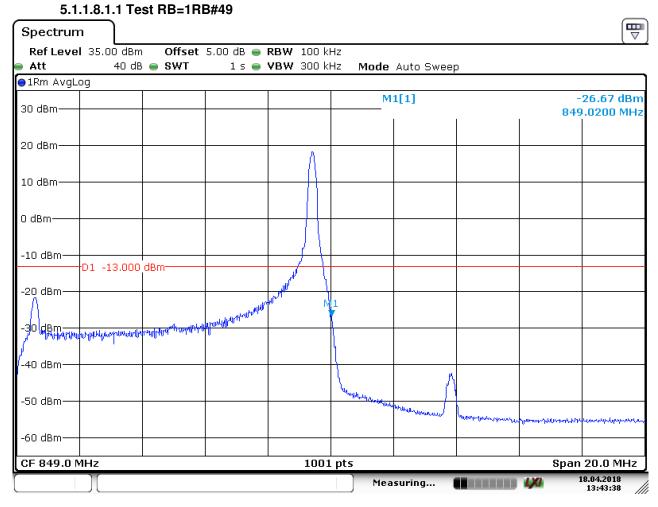
Date: 18.APR.2018 13:40:45

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5.1.1.8.1 Test Channel = HCH



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Spectrum											
Ref Level				5.00 dB 👄	RBW	100 kl	Ηz				
🗕 Att)dB 🧉	SWT	1 s 👄	VBW	300 ki	Hz Mode	Auto Sweep	0		
●1Rm AvgLc)g										
30 dBm							M	1[1]	I		34.54 dBm).0200 MHz
20 dBm											
10 dBm											
0 dBm	ىمىرىرى خەرەلىخامىيە 	and the second second	u-adaming party and g	-	unterretation	-					
-10 dBm	D1 -13.(000 dB	m								
-20 dBm						+					
/-30 dBm						-	1				
-40 dBm							Current and and	alaan ah war			
-50 dBm									- And and a second	the second se	
-60 dBm											hanne an
CF 849.0 M	IHz					1001	pts	ı	I	Span	20.0 MHz
][Mea	suring		1,70	18.04.2018 13:43:59 //

5.1.1.8.1.2 Test RB=50RB#0

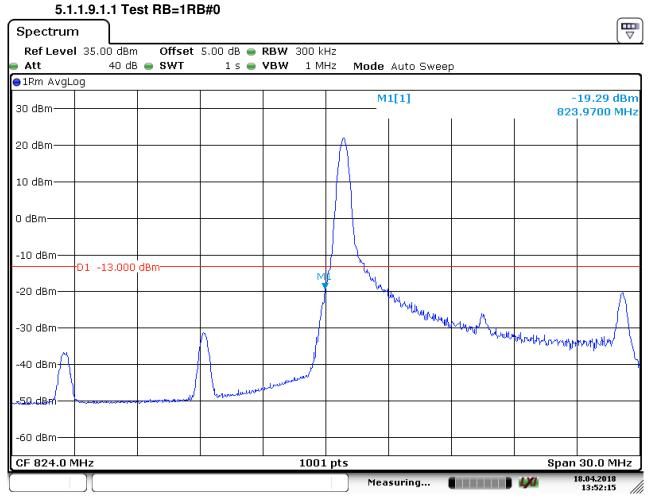
Date: 18.APR.2018 13:43:59

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



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Spectrum	,)								
	35.00 dBn			RBW 300 kH					
Att		B 🖷 SWT	1 s 👄	VBW 1 MH	IZ Mode	Auto Swe	ер		
●1Rm AvgLo	og	1	1						07.07.ID
30 dBm					IYI	1[1] I	I		·27.97 dBm 3.9700 MHz
20 dBm									
10 dBm									
0 dBm						****			
-10 dBm									
-20 dBm	D1 -13.000	dBm							
				м	/				
-30 dBm		mon	-						
-40.dBm	and the second								
-50 dBm									
-60 dBm									
CF 824.0 M	IHz	L	I	1001	pts	I		Span	30.0 MHz
)[]				Mea	suring		LX0	18.04.2018 13:51:45

5.1.1.9.1.2 Test RB=75RB#0

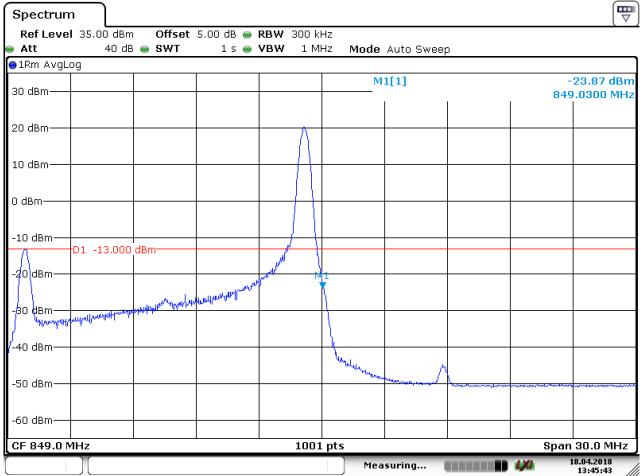
Date: 18.APR.2018 13:51:45



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

5.1.1.10.1.1 Test RB=1RB#74



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	40 dB 🥃 SWT	1 s 👄 VBW 1	MHz Mode Aut	o Sweep	
1Rm AvgLog			M1[1]		-28.35 dB 849.0300 MF
20 dBm					
LO dBm					
) #Bm					
10 dBm					
20 dBm					
30 dBm					
40 dBm					
50 dBm					
60 dBm					

5.1.1.10.1.2 Test RB=75RB#0

Date: 18.APR.2018 13:45:07

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6 Spurious Emission at Antenna Terminal

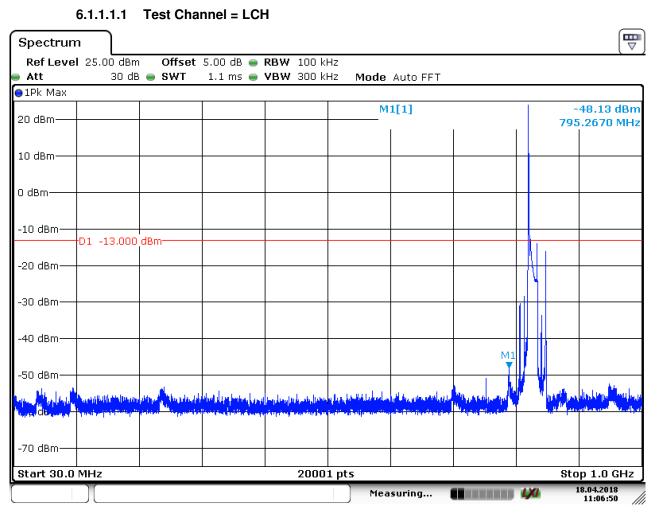
Test Mode = LTE / TM1 15MHz RB1#0

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

Part I - Test Plots

6.1 For LTE

6.1.1.1



Date: 18.APR.2018 11:06:51

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Spectrum	ı)								
	1 25.00 dBr		5.00 dB 👄						`
e Att	30 d	B 👄 SWT	30 ms 👄	VBW 3 MHz	Mode A	uto Sweep			
⊖1Pk Max									
20 dBm					M	1[1]			37.19 dBm
20 0011						1	1	1.0	49990 GHz
10 dBm									
0 dBm									
-10 dBm—									
	D1 -13.000) dBm							
00 d0									
-20 dBm——									
00 d0									
-30 dBm M1									
T									
-40 dBm				والمرادية المحمد والمراجع	الاصباط أألبني		the could be them	المعقدين والمعقور	A STATE OF A
and a line of the	بالكارد بعرق أشاعه	and a set of the set of the set	and the second secon	and a state of the	and a second second second			and a state of the second	
discust and some dates	and a second	Protection of the second second							
-60 dBm									
-70 dBm——									
Start 1.0 G	Hz	1		2000	1 pts		1	Stop	10.0 GHz
)[suring		170	18.04.2018 11:04:00 //

Date: 18.APR.2018 11:04:00



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Spectrun	n)									[₩
	l 25.00 dBr		5.00 dB 😑							
Att	30 d	B 😑 SWT	1.1 ms 👄	VBW 300 k	Hz Mode	Auto FFT				
⊖1Pk Max	1	1	1	1	1					
20 dBm					M	1[1]	I	I		51.99 dBm 3.3320 MHz
10 dBm										
0 dBm										
-10 dBm	D1 -13.000) dBm								
-20 dBm—										
-30 dBm										
-40 dBm										
-50 dBm							M1	ľ	<u> </u>	
Lucha de la Martin			ر مربع البراني المراجع المراجع المراجع مربع مراجع مربع مراجع المراجع المراجع		مراجلين (ي. التي التي الي الي. محمد المربع المحمد المربع	م برای می بیرانار در محمد کمبر در محمد	telefortheside	ľ		n hijdered Andrea fan de state
-70 dBm										
Start 30.0	MHz			2000	1 pts					p 1.0 GHz
					Mea	suring		IJ	KI	11:07:24

6.1.1.1.2 Test Channel = MCH

Date: 18.APR.2018 11:07:24

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Spectrun	n]								
	l 25.00 dBr		5.00 dB 👄						
Att	30 d	B 🔵 SWT	30 ms 🖷	VBW 3 MHz	: Mode A	uto Sweep			
⊖1Pk Max	1	1	1	1					
20 dBm					M	1[1]			36.73 dBm 59890 GHz
							I	1.0	39890 GHZ
10 dBm									
0 dBm									
-10 dBm—	D1 -13.000								
	DI -13,000								
-20 dBm—									
-30 dBm									
M1									
-40 dBm					المالية والمنطقة والمناط	at the set			
المعالية المعار	والتقييم الألب ويروينان	1. dentiale dations	مرافق بندار و مراجع مراجع مراجع المراجع	الماليان إلى أول إلى إليان ال معالي المرابع الماليان الماليان	and the second	and the second	والمحاف النافل مروالعان	additions on the feature	allah bigarangan tarihi alamat
a superior de la seconda d	طعني برجي فالعلقي	and the state of the	and the local of the state of the second	and dates in the second		1 ar	and the second	and a second	
-60 dBm									
-70 dBm—									
, o abiii									
Start 1.0 G	GHz			2000	1 pts			-	0 10.0 GHz
	Л				Mea	suring		1) 0	18.04.2018 11:03:43

Date: 18.APR.2018 11:03:44



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Spectrum	ī											₩
Ref Level	25.00	dBm	Offset	5.00 dB 👄	RBW	100 kH	łz					
Att	з	30 dB	SWT	1.1 ms 👄	VBW	300 kH	lz Mode	Auto FFT				
😑 1Pk Max												
20 dBm							M	1[1]	1	1		51.64 dBm 5.9740 MHz
10 dBm												
0 dBm												
-10 dBm—	D1 -13	.000	dBm									
-20 dBm												
-30 dBm												
-40 dBm												
-50 dBm			м1									
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			· · · · · · · · · · · · · · · · · · ·			1-1 -1 -1						
-70 dBm Start 30.0	MU-2					2000	Inte				Q+,	p 1.0 GHz
						2000.		suring		11		11:07:53

6.1.1.1.3 Test Channel = HCH

Date: 18.APR.2018 11:07:53

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Spectrun	n]								
	l 25.00 dBr			RBW 1 MHz					`
e Att	30 d	B 👄 SWT	30 ms 👄	VBW 3 MHz	Mode A	uto Sweep			
⊖1Pk Max	1	1	-						
20 dBm					M	1[1] 	1		38.83 dBm 70240 GHz
10 dBm									
0 dBm									
-10 dBm—	D1 -13.00) dBm							
-20 dBm—									
-30 dBm—									
M1 -40 dBm				and a second designed	and an and a second	-			alman, J
Malandillandi Malandillandi				and the second sec	an a	and a second	i di b _{ala} n paristi sun basi su All'Angenerata basa di kuta		
-60 dBm									
-70 dBm—									
Start 1.0 C	i GHz		1	2000	1 pts	1	1	Stop	10.0 GHz
(][suring			18.04.2018 11:02:44 //

Date: 18.APR.2018 11:02:44



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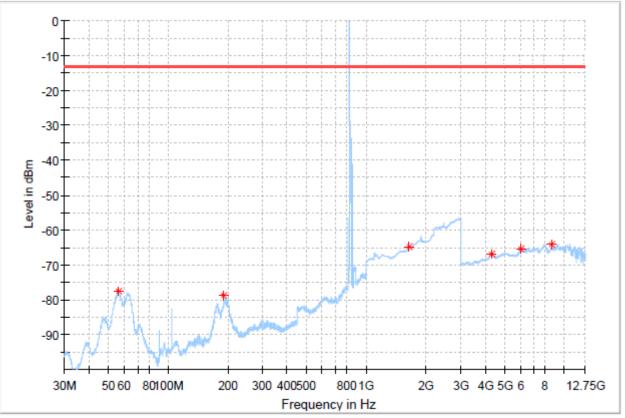
7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band26

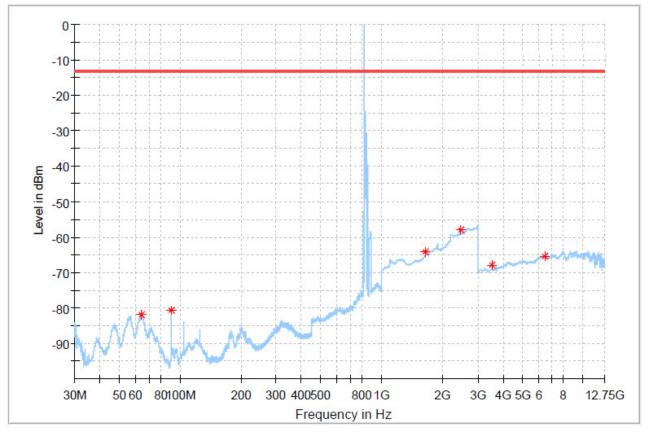
7.1.1.1 Test Mode =LTE/TM1 15MHz RB1#0- Diversity antenna

7.1.1.1.1 Test Channel = LCH



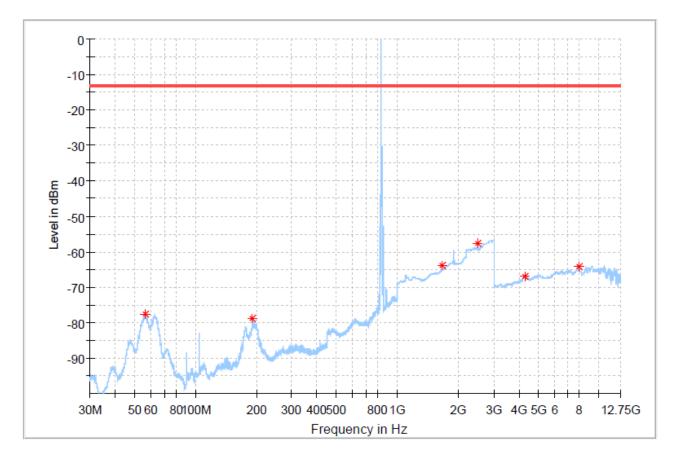


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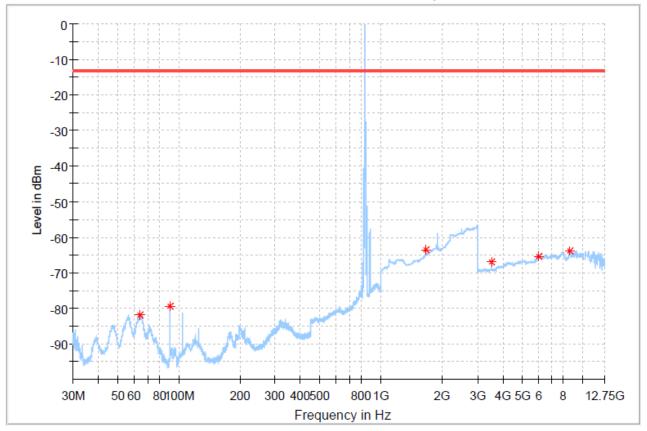
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7.1.1.1.1 Test Channel = MCH

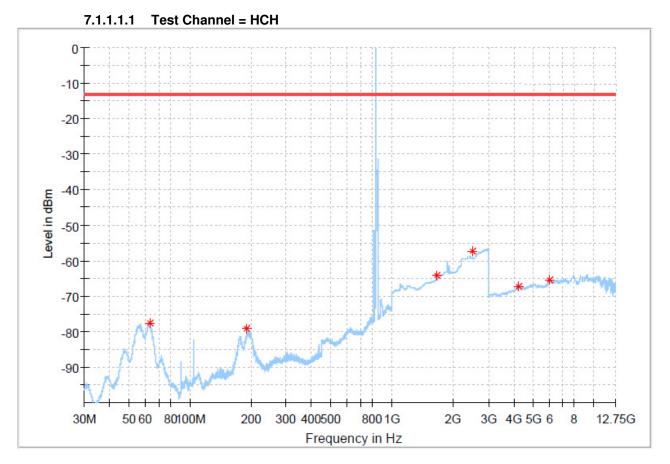


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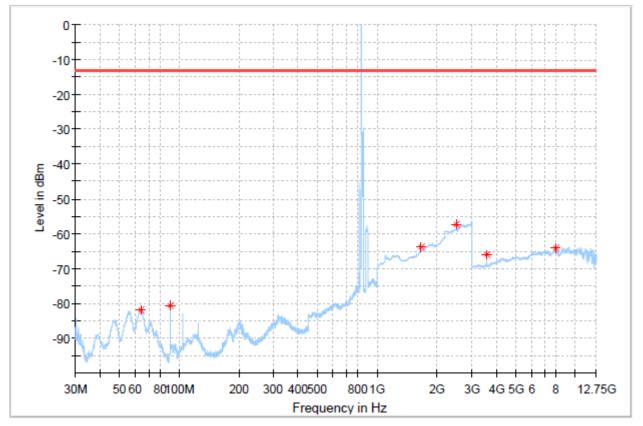


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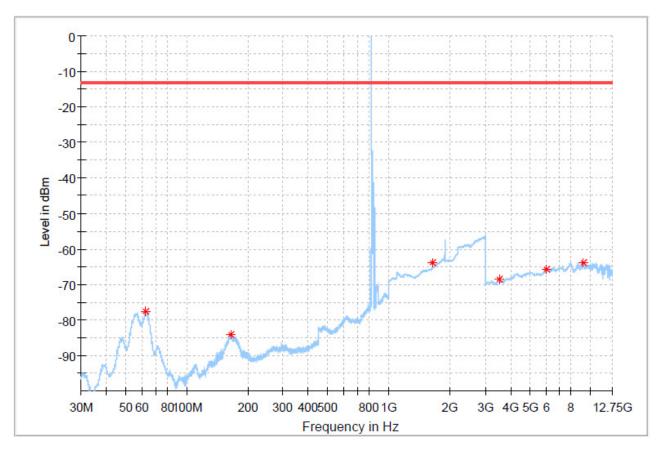
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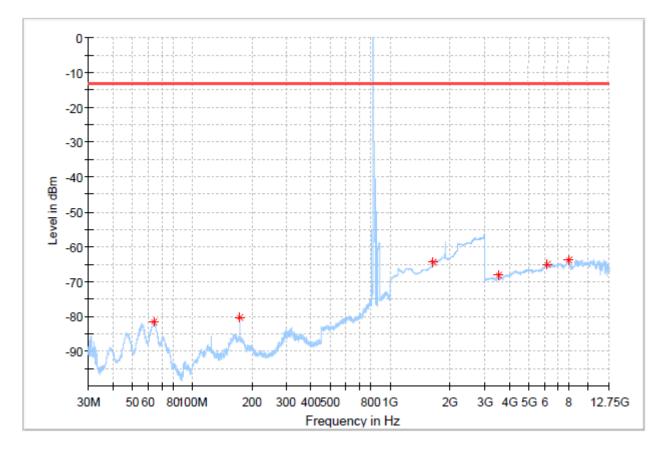
7.1.1.2 Test Mode =LTE/TM1 15MHz RB1#0- Main antenna



7.1.1.2.1 Test Channel = LCH

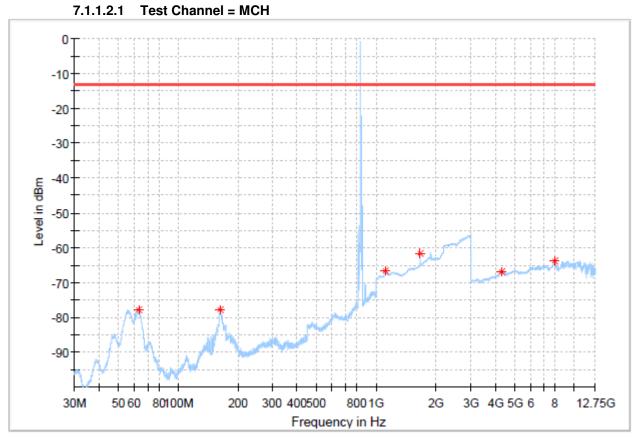


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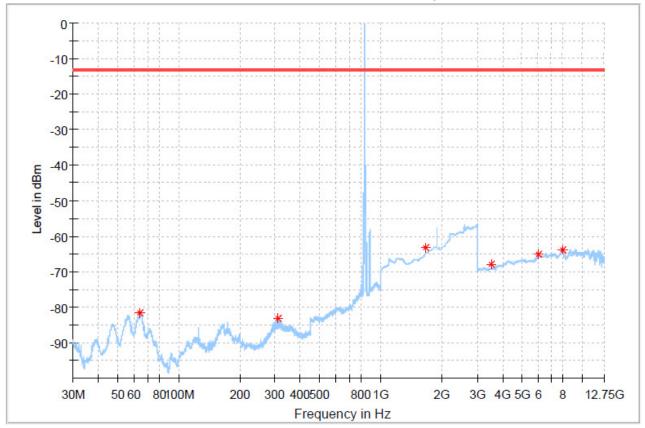


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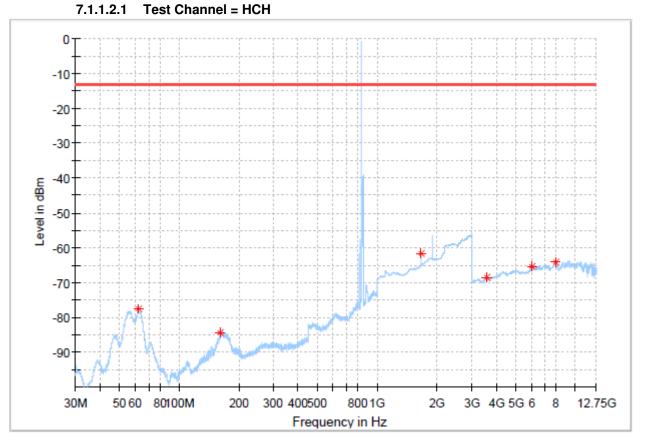


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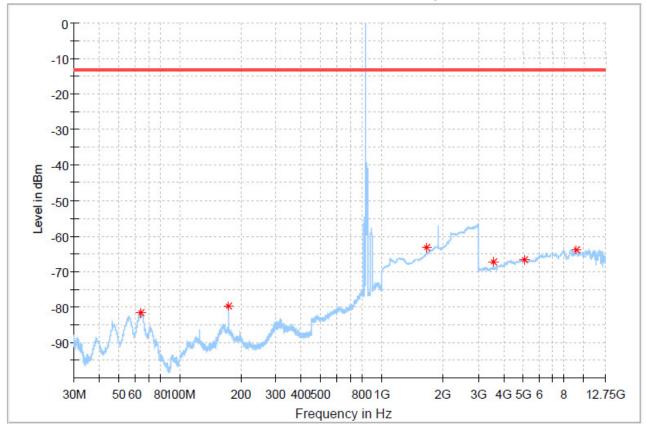


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NOTE:

- 1) All modes are tested, but the data presented above is the worst case. the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 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
	LTE/TM1 15MHz	LCH	TN	VL	-2.45	-0.00295	PASS
				VN	1.31	0.00158	PASS
				VH	-5.62	-0.00676	PASS
		МСН	TN	VL	-4.92	-0.00588	PASS
				VN	-3.24	-0.00387	PASS
				VH	-4.82	-0.00576	PASS
		НСН	TN	VL	-4.52	-0.00537	PASS
				VN	-3.84	-0.00456	PASS
LTE				VH	-4.82	-0.00573	PASS
band26		LCH	TN	VL	-2.95	-0.00355	PASS
				VN	1.21	0.00146	PASS
				VH	-5.42	-0.00652	PASS
	LTE/TM2			VL	-3.32	-0.00397	PASS
	15MHz	MCH	ΤN	VN	-1.34	-0.00160	PASS PASS PASS PASS PASS PASS PASS PASS
	TOIMITZ			VH	-4.12	-0.00493	PASS
		НСН	TN	VL	4.32	0.00513	PASS
				VN	-2.34	-0.00278	PASS
				VH	-1.12	-0.00133	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	-4.58	-0.00551	PASS
				-20	-2.21	-0.00266	PASS
				-10	-2.78	-0.00334	PASS
				0	1.53	0.00184	PASS
		LCH		10	1.51	0.00182	PASS
				20	3.93	0.00473	PASS
				30	-0.66	-0.00079	PASS
				40	-2.73	-0.00328	PASS
				50	-6.25	-0.00752	PASS
			VN	-30	-4.33	-0.00518	PASS
				-20	-2.65	-0.00317	PASS
	LTE/TM1 15MHz			-10	-2.43	-0.00290	PASS
				0	1.26	0.00151	PASS
LTE band26				10	1.23	0.00147	PASS
				20	3.96	0.00473	PASS
				30	-0.64	-0.00077	PASS
				40	-2.73	-0.00326	PASS
				50	-6.26	-0.00748	PASS
				-30	-4.34	-0.00516	PASS PASS PASS PASS PASS PASS PASS PASS
				-20	-2.66	-0.00316	
				-10	-2.47	-0.00294	
		НСН	VN	0	1.24	0.00147	PASS
				10	1.26	0.00150	PASS
				20	3.98	0.00473	PASS
				30	-0.64	-0.00076	PASS
				40	-2.77	-0.00329	PASS
				50	-6.41	-0.00762	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		LCH	VN	-30	-3.25	-0.00391	PASS		
				-20	-2.46	-0.00296	PASS		
				-10	1.87	0.00225	PASS		
				0	2.44	0.00293	PASS		
				10	1.88	0.00226	PASS		
				20	-0.34	-0.00041	PASS		
				30	-3.56	-0.00428	PASS		
				40	2.97	0.00357	PASS		
				50	-4.43	-0.00533	PASS		
		МСН	VN	-30	-3.55	-0.00424	PASS		
	LTE/TM2 15MHz			-20	-2.86	-0.00342	PASS		
				-10	1.67	0.00200	PASS		
				0	2.34	0.00280	PASS		
LTE band26				10	1.88	0.00225	PASS		
Burideo				20	-0.64	-0.00077	PASS		
				30	-3.56	-0.00426	PASS		
				40	2.47	0.00295	PASS		
				50	-4.43	-0.00530	PASS PASS PASS PASS PASS PASS PASS PASS		
				-30	-3.67	-0.00436	PASS		
		НСН	VN	-20	-2.44	-0.00290	PASS		
				-10	1.23	0.00146	PASS		
				0	2.25	0.00267	PASS		
				10	1.78	0.00212	PASS		
				20	-0.85	-0.00101	PASS		
				30	-3.88	-0.00461	PASS		
				40	2.28	0.00271	PASS		
				50	-4.86	-0.00578	PASS		

The End