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Appendix B

LTE-M1 BAND12



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE-M1 BAND12

Ellect	Effective isotropic Radiated Power of Transmitter (EIRP) for ETE-WIT BAND 12							
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.37	20.62	34.77	PASS
			LCH	RB1#5	23.43	20.68	34.77	PASS
			RB6#0	22.21	19.46	34.77	PASS	
		1.4M	MCH	RB1#0	23.19	20.44	34.77	PASS
BAND12	LTE- M1/TM1			RB1#5	23.21	20.46	34.77	PASS
	1011/11011			RB6#0	22.22	19.47	34.77	PASS
		HCH	RB1#0	23.13	20.38	34.77	PASS	
			RB1#5	23.16	20.41	34.77	PASS	
			RB6#0	22.05	19.3	34.77	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.52	19.77	34.77	PASS
			LCH	RB1#5	22.53	19.78	34.77	PASS
			RB6#0	21.28	18.53	34.77	PASS	
		1.4M	MCH	RB1#0	22.55	19.8	34.77	PASS
BAND12	LTE- M1/TM2			RB1#5	22.61	19.86	34.77	PASS
	IVI 1/ 1 IVIZ			RB6#0	21.26	18.51	34.77	PASS
			RB1#0	22.25	19.5	34.77	PASS	
		HCH	RB1#5	22.53	19.78	34.77	PASS	
				RB6#0	21.08	18.33	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.43	20.68	34.77	PASS
			LCH	RB1#5	23.49	20.74	34.77	PASS
			RB6#0	22.33	19.58	34.77	PASS	
		3M	MCH	RB1#0	23.06	20.31	34.77	PASS
BAND12	LTE- M1/TM1			RB1#5	23.12	20.37	34.77	PASS
	1011/11011			RB6#0	22.13	19.38	34.77	PASS
				RB1#0	23.01	20.26	34.77	PASS
			HCH	RB1#5	23.07	20.32	34.77	PASS
				RB6#0	22.31	19.56	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.83	20.08	34.77	PASS
		ЗМ	LCH	RB1#5	22.73	19.98	34.77	PASS
DANIDAG	LTE-			RB6#0	21.06	18.31	34.77	PASS
BAND12	M1/TM2			RB1#0	22.28	19.53	34.77	PASS
		MCH	RB1#5	22.26	19.51	34.77	PASS	
				RB6#0	21.08	18.33	34.77	PASS



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	RB1#0	22.31	19.56	34.77	PASS
HCH	RB1#5	22.38	19.63	34.77	PASS
	RB6#0	21.06	18.31	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.38	20.63	34.77	PASS
			LCH	RB1#5	23.42	20.67	34.77	PASS
			RB6#0	22.41	19.66	34.77	PASS	
		5M	МСН	RB1#0	23.42	20.67	34.77	PASS
BAND12	LTE- M1/TM1			RB1#5	23.48	20.73	34.77	PASS
	1011/11011			RB6#0	22.14	19.39	34.77	PASS
			RB1#0	23.25	20.5	34.77	PASS	
		HCH	RB1#5	23.27	20.52	34.77	PASS	
				RB6#0	22.02	19.27	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.98	20.23	34.77	PASS
			LCH	RB1#5	22.86	20.11	34.77	PASS
			RB6#0	21.35	18.6	34.77	PASS	
		5M	MCH	RB1#0	22.42	19.67	34.77	PASS
BAND12	LTE- M1/TM2			RB1#5	22.87	20.12	34.77	PASS
	IVI I/ I IVIZ			RB6#0	21.35	18.6	34.77	PASS
			RB1#0	22.61	19.86	34.77	PASS	
		HCH	RB1#5	22.7	19.95	34.77	PASS	
				RB6#0	21.25	18.5	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.19	20.44	34.77	PASS
		LCH	RB1#5	23.23	20.48	34.77	PASS	
			RB6#0	22.16	19.41	34.77	PASS	
		10M	МСН	RB1#0	23.22	20.47	34.77	PASS
BAND12	LTE- M1/TM1			RB1#5	23.2	20.45	34.77	PASS
	101 17 1 101 1			RB6#0	22.1	19.35	34.77	PASS
			RB1#0	23.13	20.38	34.77	PASS	
		HCH	RB1#5	23.07	20.32	34.77	PASS	
				RB6#0	21.98	19.23	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.91	20.16	34.77	PASS
		LCH	RB1#5	22.97	20.22	34.77	PASS	
		10M		RB6#0	21.17	18.42	34.77	PASS
BAND12	LTE- M1/TM2		MCH	RB1#0	22.87	20.12	34.77	PASS
	1011/11012			RB1#5	22.77	20.02	34.77	PASS
				RB6#0	22.1	19.35	34.77	PASS
		HCH	RB1#0	22.86	20.11	34.77	PASS	

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RB1#5	22.76	20.01	34.77	PASS
RB6#0	21.12	18.37	34.77	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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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	TN44/EN4	LCH	5.30	13	PASS
	TM1/5M Full RB TM1/5M 1 RB	MCH	5.68	13	PASS
		HCH	5.36	13	PASS
		LCH	4.17	13	PASS
		MCH	5.01	13	PASS
BAND12	IND	HCH	6.17	13	PASS
DAND 12	TM2/5M	LCH	5.54	13	PASS
	Full RB	MCH	6.55	13	PASS
	Full ND	HCH	5.45	13	PASS
	TM2/5M 1 RB	LCH	5.45	13	PASS
		MCH	5.48	13	PASS
	IKD	HCH	5.45	13	PASS

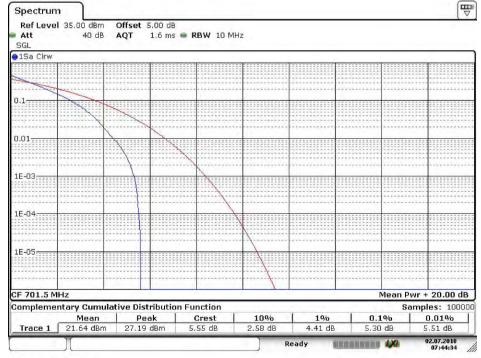
Part II - Test Plots

2.1 For LTE-M1

2.1.1 Test Band = LTE-M1 band12

2.1.1.1 Test Mode = LTE-M1/TM1.Bandwidth=5MHz Full RB

2.1.1.1.1 Test Channel = LCH



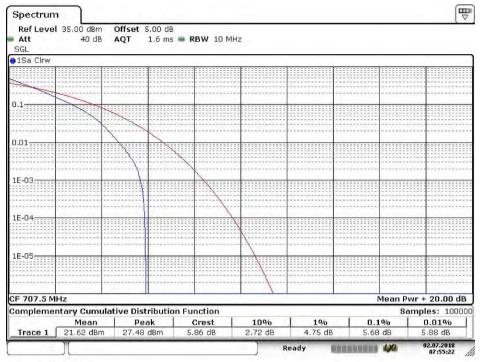
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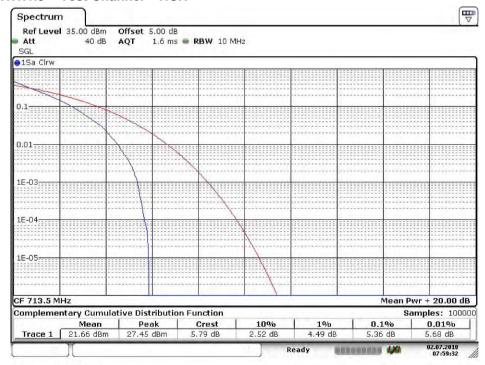
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2.1.1.1.2 Test Channel = MCH



Date: 2.JUL.2018 07:55:22

2.1.1.1.3 Test Channel = HCH



Date: 2.JUL.2018 07:59:32



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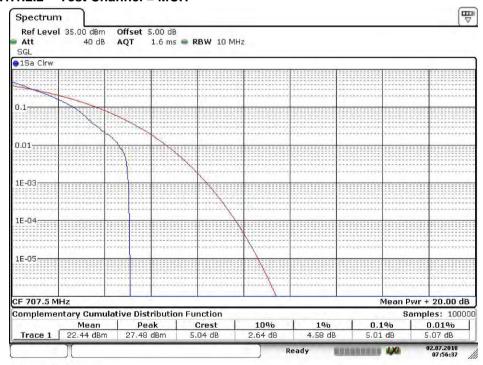
2.1.1.2 Test Mode = LTE-M1/TM1.Bandwidth=5MHz 1 RB

2.1.1.2.1 Test Channel = LCH



Date: 2.JUL.2018 07:42:44

2.1.1.2.2 Test Channel = MCH



Date: 2.JUL.2018 07:56:38



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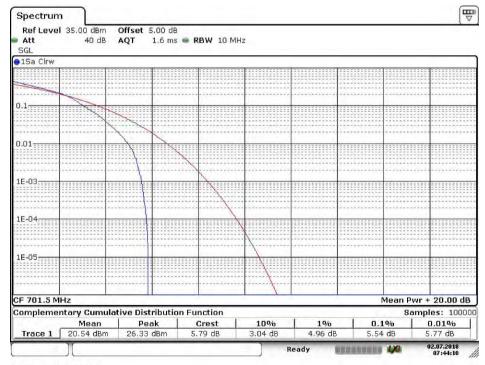
2.1.1.2.3 Test Channel = HCH



Date: 2.JUL.2018 07:57:32

2.1.1.3 Test Mode = LTE-M1/TM2.Bandwidth=5MHz Full RB

2.1.1.3.1 Test Channel = LCH



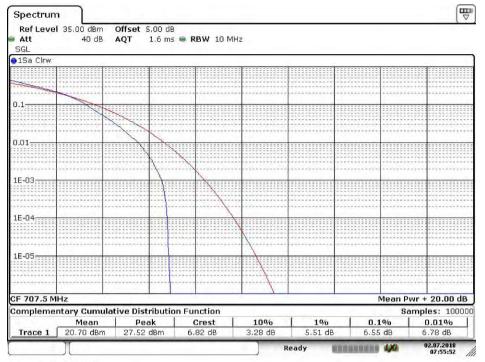
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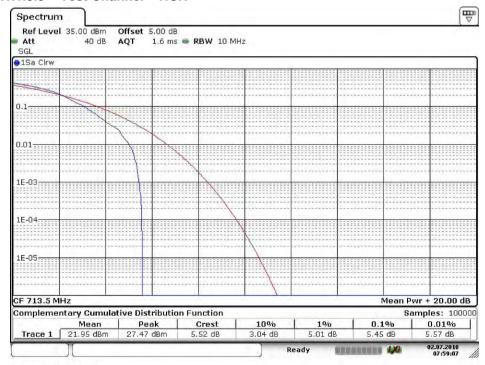
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2.1.1.3.2 Test Channel = MCH



Date: 2.JUL.2018 07:55:52

2.1.1.3.3 Test Channel = HCH



Date: 2.JUL.2018 07:59:07

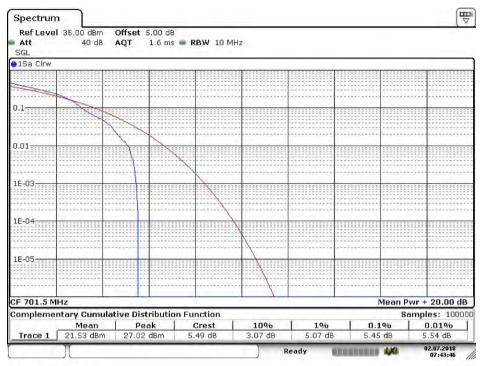


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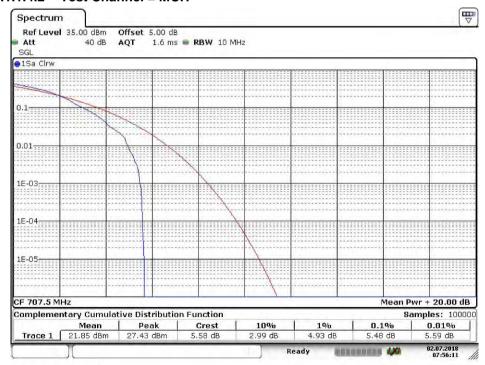
2.1.1.4 Test Mode = LTE-M1/TM2.Bandwidth=5MHz 1 RB

2.1.1.4.1 Test Channel = LCH



Date: 2.JUL.2018 07:43:46

2.1.1.4.2 Test Channel = MCH



Date: 2.JUL.2018 07:56:11

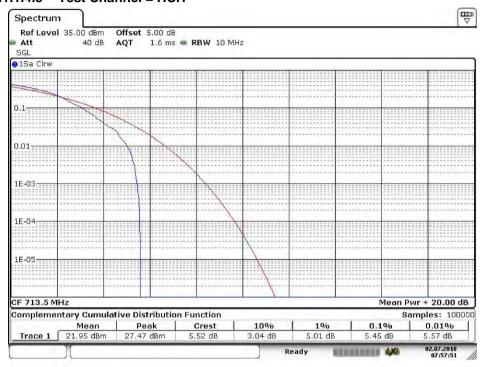
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2.1.1.4.3 Test Channel = HCH



Date: 2.JUL.2018 07:57:52



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3 Modulation Characteristics

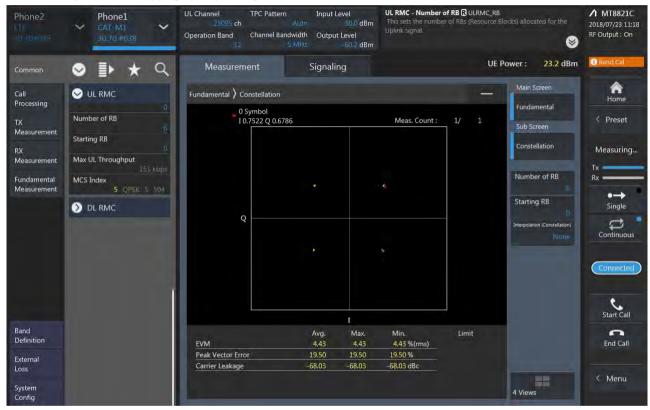
Part I - Test Plots

3.1 For LTE-M1

3.1.1 Test Band = LTE-M1 band12

3.1.1.1 Test Mode = LTE-M1 /TM1 5MHz

3.1.1.1.1 Test Channel = MCH

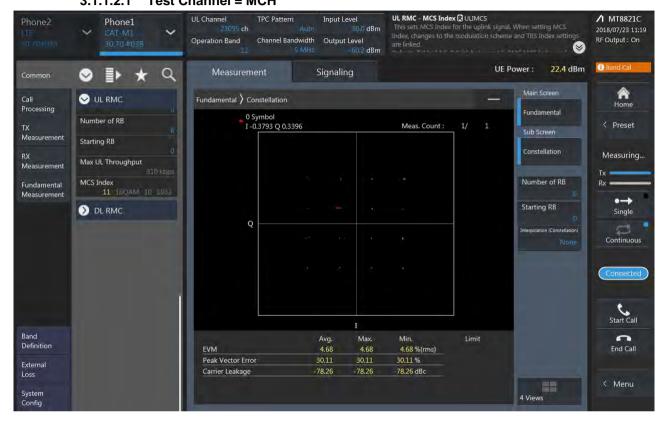




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3.1.1.2 Test Mode = LTE-M1 /TM2 5MHz 3.1.1.2.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

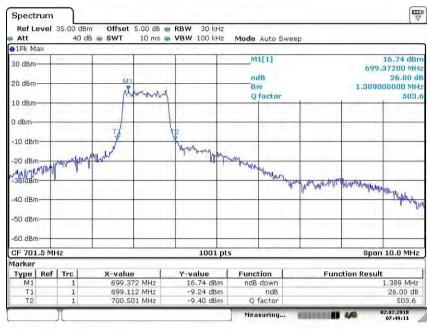
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	TM1/ 5MHz	LCH	1.10	1.38	PASS
		MCH	1.11	1.39	PASS
Band12		HCH	1.11	1.40	PASS
	TM2/ 5MHz	LCH	1.11	1.48	PASS
		MCH	1.11	1.47	PASS
		HCH	1.11	1.48	PASS

4.1 For LTE

4.1.1 Test Band = LTE-M1 band12

4.1.1.1 Test Mode = LTE-M1/TM1 5MHz

4.1.1.1.1 Test Channel = LCH

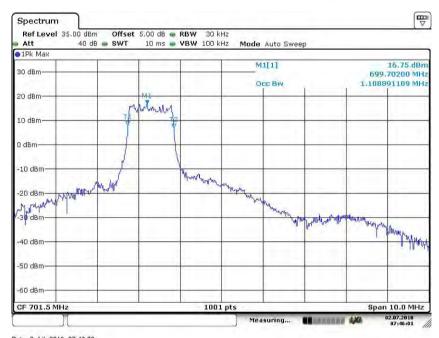


Date: 2.JUL.2018 07:49:12



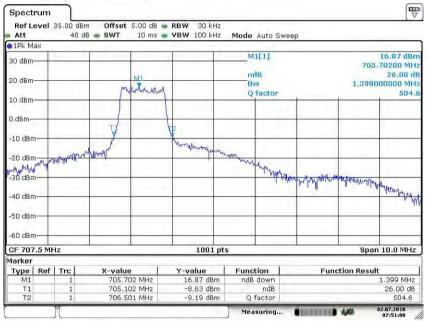
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Date: 2.JUL.2018 07:46:00

4.1.1.1.2 Test Channel = MCH



Date: 2.JUL.2018 07:51:08

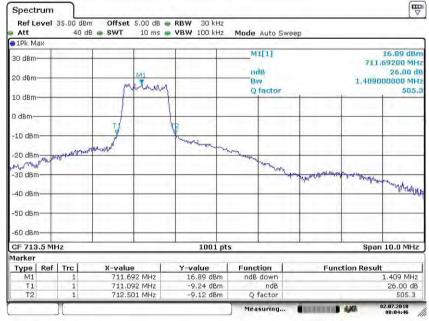


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4.1.1.1.3 Test Channel = HCH



Date: 2.JUL.2018 08:04:47



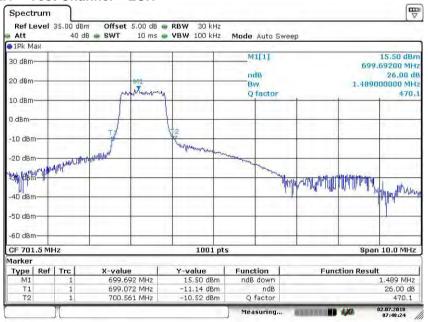
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4.1.1.2 Test Mode = LTE-M1/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

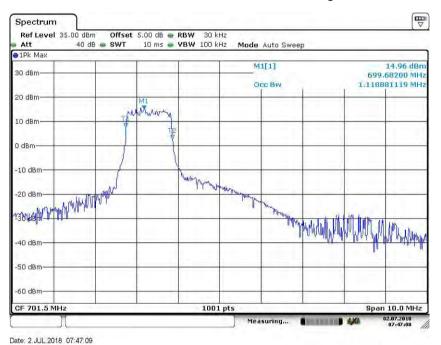


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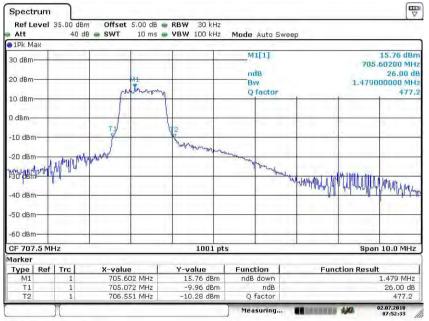


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4.1.1.2.2 Test Channel = MCH

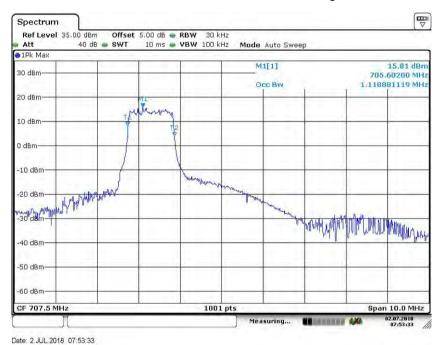


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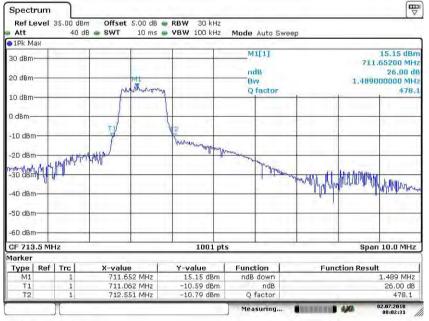


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4.1.1.2.3 Test Channel = HCH

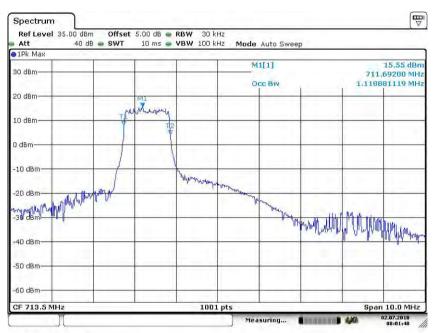


Date: 2.JUL.2018 08:02:32



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5 Band Edges Compliance

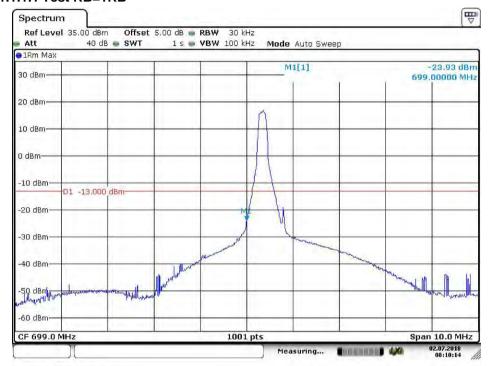
5.1 For LTE-M1

5.1.1 Test Band = LTE-M1 band12

5.1.1.1 Test Mode = LTE-M1/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1 Test RB=1RB



Date: 2.JUL.2018 08:10:14



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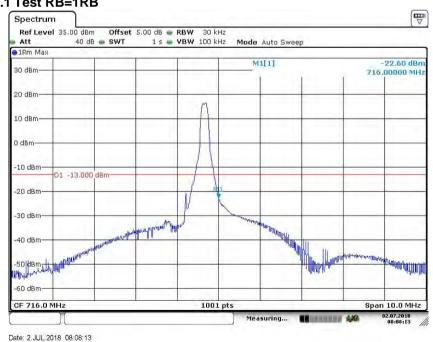
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5.1.1.1.1.2 Test RB=6RB



5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

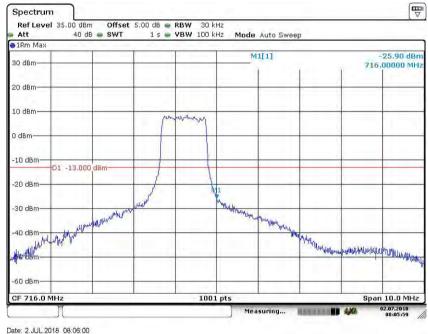




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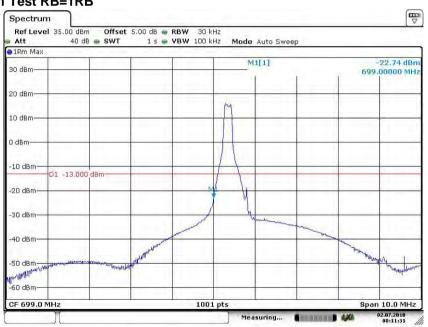
5.1.1.1.2.2 Test RB=6RB



5.1.1.2 Test Mode = LTE-M1/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



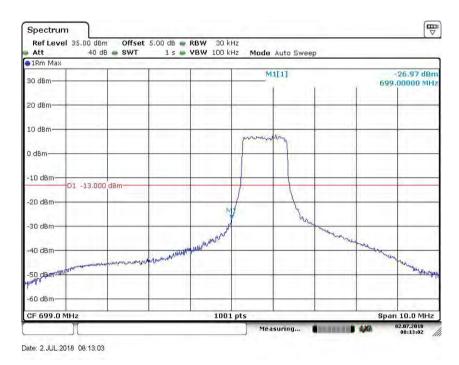
Date: 2.JUL.2018 08:11:31



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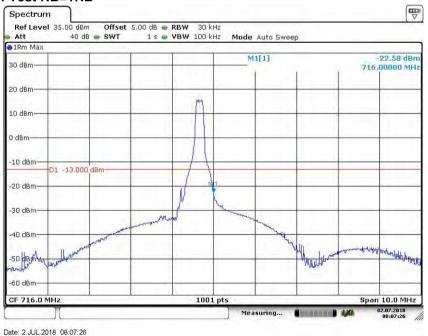
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5.1.1.2.1.2 Test RB=6RB



5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



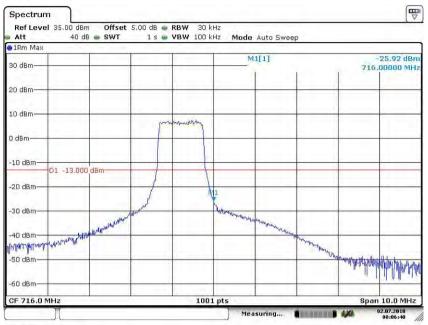
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5.1.1.2.2.2 Test RB=6RB



Date: 2.JUL.2018 08:06:40



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6 Spurious Emission at Antenna Terminal

NOTE1: 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)

NOTE2: only the worst case data displayed in this report.

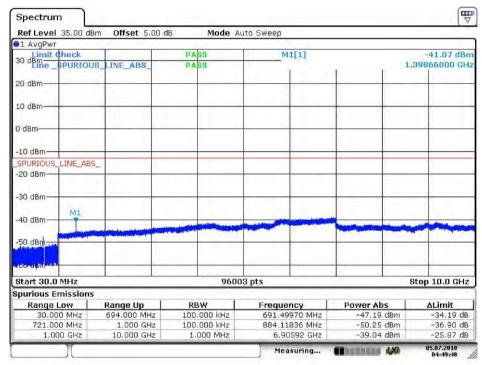
Part I - Test Plots

6.1 For LTE-M1

6.1.1 Test Band = LTE-M1 band12

6.1.1.1 Test Mode = LTE-M1 / TM1 5MHz RB1#0

6.1.1.1.1 Test Channel = LCH



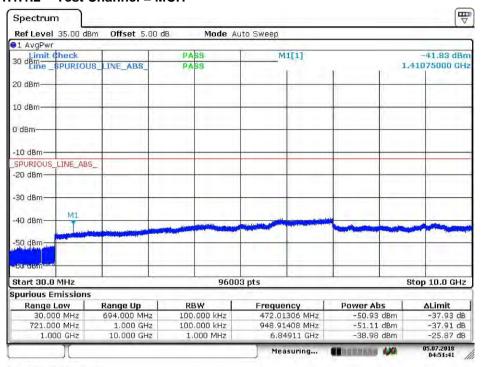
Date: 5.JUL.2018 04:49:48



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6.1.1.1.2 Test Channel = MCH



Date: 5.JUL.2018 04:51:42

6.1.1.1.3 Test Channel = HCH



Date: 5.JUL.2018 04:54:19

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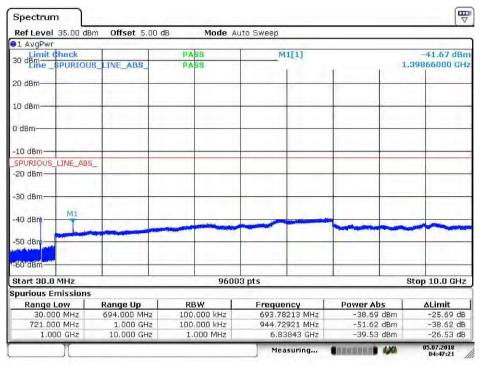


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6.1.1.2 Test Mode = LTE-M1 / TM2 5MHz RB1#0

6.1.1.2.1 Test Channel = LCH



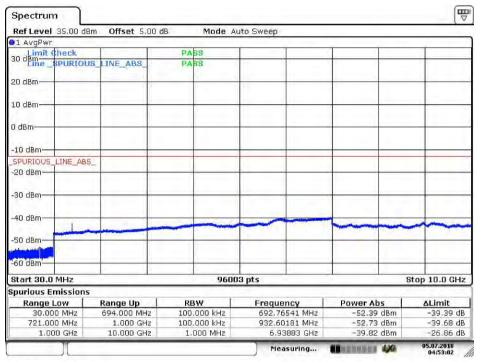
Date: 5.JUL.2018 04:47:20



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6.1.1.2.2 Test Channel = MCH



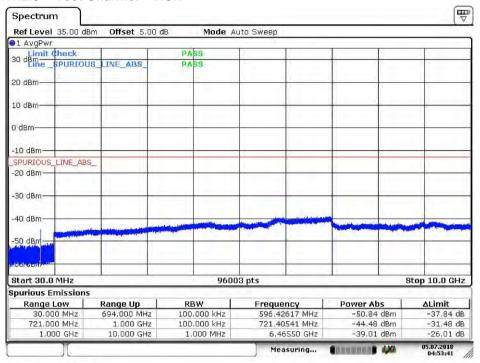
Date: 5.JUL.2018 04:53:02



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6.1.1.2.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

7.1 For LTE-M1

7.1.1 Test Band = LTE-M1 band12

7.1.1.1 Test Mode =LTE-M1/TM1 5MHz RB1#0

7.1.1.1.1 Test Channel = LCH

	Test Chailler = LC	71 1		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.693333	-82.31	-13.00	-69.31	Vertical
125.013333	-86.79	-13.00	-73.79	Vertical
933.083333	-63.85	-13.00	-50.85	Vertical
1398.000000	-47.88	-13.00	-34.88	Vertical
2098.500000	-60.70	-13.00	-47.70	Vertical
5594.475000	-63.39	-13.00	-50.39	Vertical
63.226667	-78.41	-13.00	-65.41	Horizontal
932.120833	-61.51	-13.00	-48.51	Horizontal
1398.500000	-40.99	-13.00	-27.99	Horizontal
2098.000000	-52.72	-13.00	-39.72	Horizontal
6041.512500	-65.70	-13.00	-52.70	Horizontal
7855.987500	-64.38	-13.00	-51.38	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.393333	-82.16	-13.00	-69.16	Vertical
124.966667	-87.31	-13.00	-74.31	Vertical
941.104167	-65.49	-13.00	-52.49	Vertical
1410.500000	-44.48	-13.00	-31.48	Vertical
2116.000000	-60.12	-13.00	-47.12	Vertical
7053.075000	-62.61	-13.00	-49.61	Vertical
63.553333	-78.32	-13.00	-65.32	Horizontal
300.293333	-86.70	-13.00	-73.70	Horizontal
940.187500	-61.47	-13.00	-48.47	Horizontal
1410.500000	-39.66	-13.00	-26.66	Horizontal
2116.500000	-54.71	-13.00	-41.71	Horizontal
5643.225000	-65.20	-13.00	-52.20	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
65.606667	-82.63	-13.00	-69.63	Vertical
124.966667	-87.26	-13.00	-74.26	Vertical
929.875000	-66.28	-13.00	-53.28	Vertical
1422.500000	-43.92	-13.00	-30.92	Vertical
2200.000000	-59.40	-13.00	-46.40	Vertical
5690.025000	-64.24	-13.00	-51.24	Vertical
62.666667	-77.61	-13.00	-64.61	Horizontal
949.033333	-58.23	-13.00	-45.23	Horizontal
1422.500000	-40.30	-13.00	-27.30	Horizontal
2134.000000	-57.57	-13.00	-44.57	Horizontal
3556.237500	-68.73	-13.00	-55.73	Horizontal
5690.512500	-65.21	-13.00	-52.21	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all bandwidth, but only the worst case data presented in this report.



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		LCH	TN	VL	-4.15	-0.005913	PASS
				VN	1.52	0.002170	PASS
				VH	-5.14	-0.007324	PASS
				VL	-6.03	-0.008529	PASS
	LTE-M1/TM1 5MHz	MCH	TN	VN	7.24	0.010235	PASS
				VH	6.15	0.008704	PASS
		НСН		VL	-4.36	-0.006118	PASS
			TN	VN	-9.67	-0.013566	PASS
LTE-M1				VH	9.77	0.013712	PASS
Band12	LTE-M1/TM2 5MHz	LCH	TN	VL	7.34	0.010461	PASS
				VN	-1.45	-0.002068	PASS
				VH	5.16	0.007363	PASS
		MCH	TN	VL	1.82	0.002579	PASS
				VN	-2.80	-0.003957	PASS
				VH	-2.78	-0.003937	PASS
		HCH TN		VL	-8.06	-0.011306	PASS
			TN	VN	5.87	0.008244	PASS
				VH	-2.85	-0.003997	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
				-30	-4.52	-0.006449	PASS
				-20	-2.76	-0.003938	PASS
				-10	-0.37	-0.000526	PASS
				0	-7.02	-0.010012	PASS
		LCH	VN	10	-6.08	-0.008667	PASS
				20	-7.27	-0.010359	PASS
				30	8.62	0.012287	PASS
				40	9.54	0.013595	PASS
				50	0.20	0.000280	PASS
				-30	-6.83	-0.009658	PASS
	LTE-M1/TM1 5MHz		VN	-20	-1.46	-0.002062	PASS
		MCH		-10	-3.43	-0.004852	PASS
LTE-M1				0	-9.98	-0.014114	PASS
Band12				10	6.36	0.008991	PASS
				20	0.30	0.000425	PASS
				30	-2.49	-0.003521	PASS
				40	-5.07	-0.007170	PASS
				50	-3.84	-0.005438	PASS
				-30	-5.02	-0.007042	PASS
				-20	1.21	0.001702	PASS
				-10	-9.79	-0.013741	PASS
				0	-1.71	-0.002404	PASS
		НСН	VN	10	3.15	0.004424	PASS
				20	-7.68	-0.010773	PASS
				30	-6.04	-0.008479	PASS
				40	7.24	0.010164	PASS
				50	-4.75	-0.006668	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-30	-9.21	-0.013127	PASS
				-20	1.68	0.002391	PASS	
				-10	9.17	0.013078	PASS	
				0	6.38	0.009088	PASS	
		LCH	VN	10	0.80	0.001146	PASS	
				20	-3.01	-0.004294	PASS	
				30	6.80	0.009694	PASS	
				40	-4.02	-0.005731	PASS	
				50	-7.80	-0.011119	PASS	
				-30	-3.55	-0.005027	PASS	
	LTE-M1/TM2 5MHz		VN	-20	7.35	0.010396	PASS	
		МСН		-10	-7.63	-0.010790	PASS	
LTE-M1				0	3.60	0.005087	PASS	
band2				10	0.74	0.001049	PASS	
				20	7.72	0.010913	PASS	
				30	1.82	0.002576	PASS	
				40	5.66	0.008001	PASS	
				50	1.69	0.002391	PASS	
				-30	-6.25	-0.008776	PASS	
				-20	8.41	0.011803	PASS	
				-10	7.17	0.010068	PASS	
				0	-4.38	-0.006153	PASS	
		HCH	VN	10	4.05	0.005689	PASS	
				20	2.72	0.003824	PASS	
			_	30	-2.47	-0.003465	PASS	
				40	-8.58	-0.012036	PASS	
				50	-3.82	-0.005358	PASS	

The End