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Appendix B

LTE-M1 BAND 13



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE-M1 BAND13

Ellect	Effective isotropic Radiated Power of Transmitter (EIRP) for ETE-MT BAND 13										
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict			
			LCH	RB1#0	23.06	20.11	34.77	PASS			
	BAND13 LTE- M1/TM1	5M		RB1#5	22.98	20.03	34.77	PASS			
				RB6#0	22.09	19.14	34.77	PASS			
			MCH	RB1#0	23.03	20.08	34.77	PASS			
BAND13				RB1#5	23.07	20.12	34.77	PASS			
				RB6#0	22.18	19.23	34.77	PASS			
				RB1#0	22.93	19.98	34.77	PASS			
			HCH	RB1#5	22.96	20.01	34.77	PASS			
				RB6#0	21.99	19.04	34.77	PASS			

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
		5M		RB1#0	22.63	19.68	34.77	PASS
			LCH	RB1#5	22.65	19.7	34.77	PASS
				RB6#0	21.1	18.15	34.77	PASS
			MCH	RB1#0	22.65	19.7	34.77	PASS
BAND13	LTE- M1/TM2			RB1#5	22.67	19.72	34.77	PASS
	IVI I/ I IVIZ			RB6#0	21.11	18.16	34.77	PASS
				RB1#0	22.46	19.51	34.77	PASS
			HCH	RB1#5	22.49	19.54	34.77	PASS
				RB6#0	21.14	18.19	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
	LTE- M1/TM1	10M	MCH	RB1#0	23.06	20.11	34.77	PASS
BAND13				RB1#5	23.25	20.3	34.77	PASS
				RB6#0	22.12	19.17	34.77	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
	LTE- M1/TM2			RB1#0	22.71	19.76	34.77	PASS
BAND13		10M	MCH	RB1#5	22.63	19.68	34.77	PASS
				RB6#0	21.15	18.2	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
	TD 44 /FD 4	LCH	4.38	13	PASS
	TM1/5M Full RB	MCH	5.30	13	PASS
		HCH	4.43	13	PASS
	TM1/5M 1 RB	LCH	4.09	13	PASS
		MCH	4.03	13	PASS
BAND13		HCH	3.97	13	PASS
DAINDIS	TM2/5M Full RB	LCH	5.25	13	PASS
		MCH	5.25	13	PASS
	T dil ND	HCH	5.57	13	PASS
	TN40/5N4	LCH	4.49	13	PASS
	TM2/5M - 1 RB -	MCH	4.87	13	PASS
		HCH	4.78	13	PASS

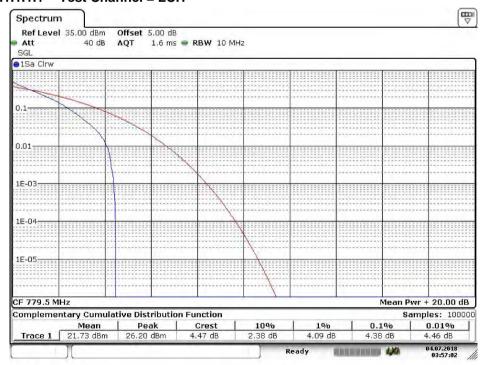
Part II - Test Plots

2.1 For LTE-M1

2.1.1 Test Band = LTE-M1 BAND13

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

2.1.1.1.1 Test Channel = LCH



Date: 4.JUL.2018 03:57:03



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2.1.1.1.2 Test Channel = MCH



Date: 4.JUL.2018 04:05:10

2.1.1.1.3 Test Channel = HCH



Date: 4.JUL.2018 04:15:59

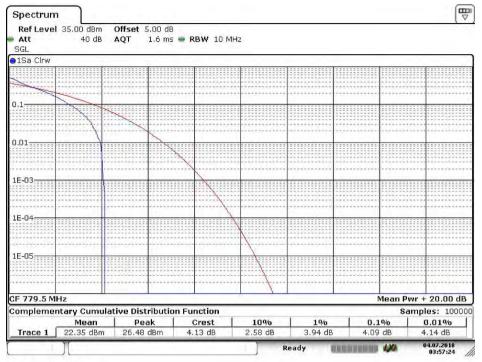


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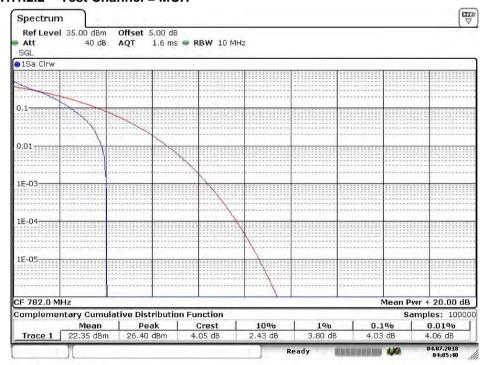
2.1.1.2 Test Mode = LTE-M1/TM1.Bandwidth=5MHz 1 RB

2.1.1.2.1 Test Channel = LCH



Date: 4.JUL.2018 03:57:25

2.1.1.2.2 Test Channel = MCH



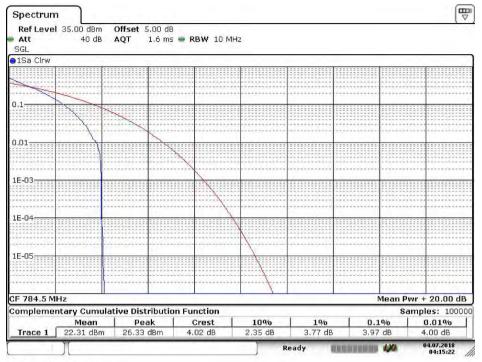
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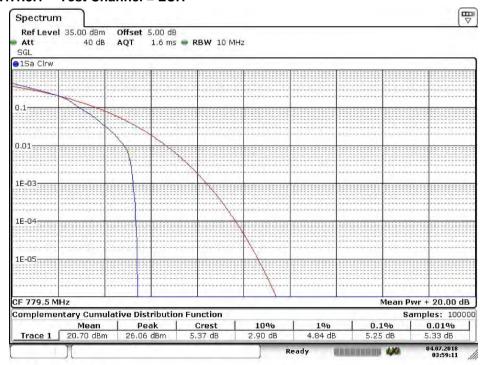
2.1.1.2.3 Test Channel = HCH



Date: 4.JUL.2018 04:15:23

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

2.1.1.3.1 Test Channel = LCH



Date: 4.JUL.2018 03:59:11

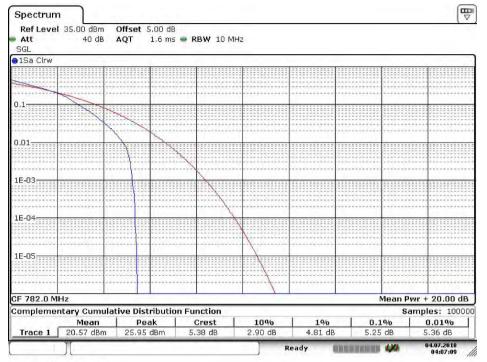
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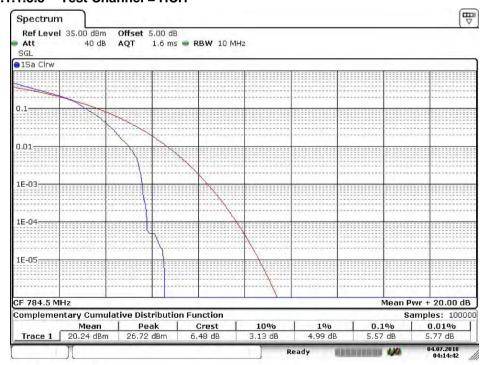
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2.1.1.3.2 Test Channel = MCH



Date: 4.JUL.2018 04:07:09

2.1.1.3.3 Test Channel = HCH



Date: 4.JUL.2018 04:14:42

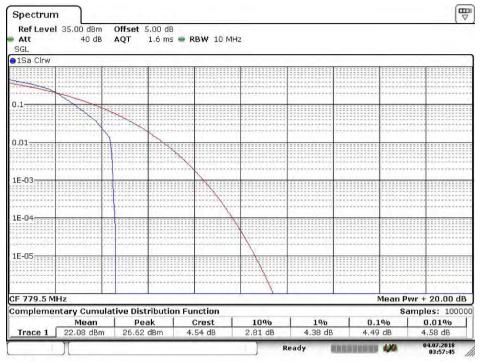


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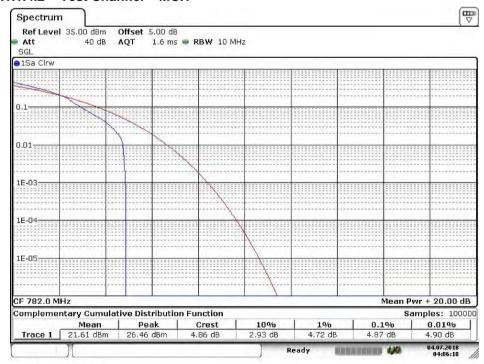
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2.1.1.4.1 Test Channel = LCH



Date: 4.JUL.2018 03:57:45

2.1.1.4.2 Test Channel = MCH



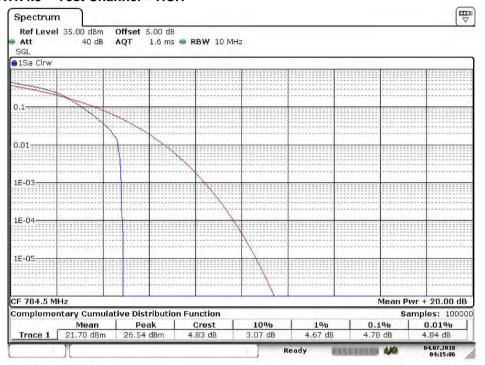
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2.1.1.4.3 Test Channel = HCH



Date: 4.JUL.2018 04:15:07



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3 Modulation Characteristics

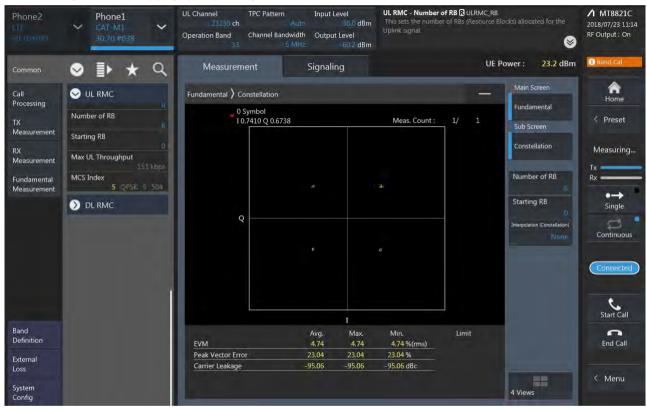
Part I - Test Plots

3.1 For LTE-M1

3.1.1 Test Band = LTE-M1 BAND13

3.1.1.1 Test Mode = LTE-M1 /TM1 5MHz

3.1.1.1.1 Test Channel = MCH

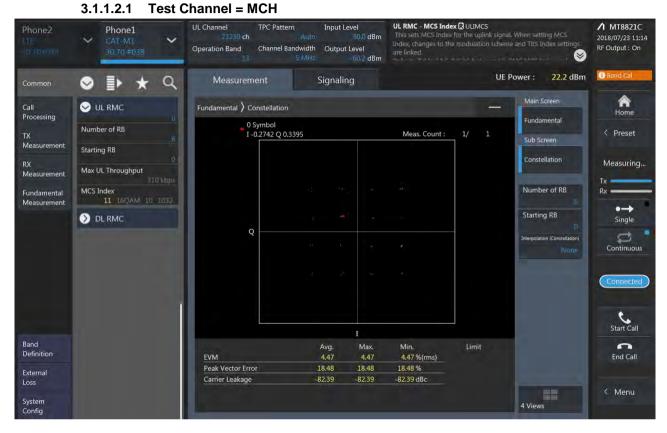




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3.1.1.2 Test Mode = LTE-M1 /TM2 5MHz





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4 Bandwidth

Part I - Test Results

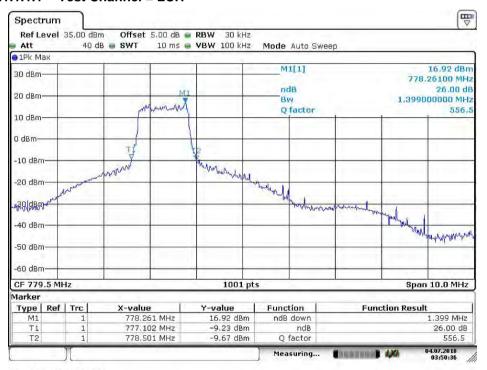
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.10	1.39	PASS
	TM1/5MHz	MCH	1.10	1.41	PASS
DANDAG		HCH	1.10	1.42	PASS
BAND13	TM2/ 5MHz	LCH	1.11	1.49	PASS
		MCH	1.11	1.49	PASS
		HCH	1.11	1.48	PASS

4.1 For LTE

4.1.1 Test Band = LTE-M1 BAND13

4.1.1.1 Test Mode = LTE-M1/TM1 5MHz

4.1.1.1.1 Test Channel = LCH

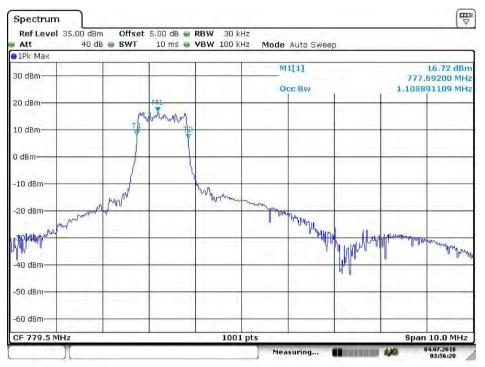


Date: 4.JUL.2018 03:50:37



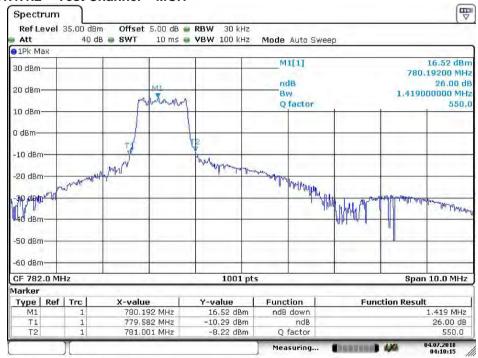
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Date: 4.JUL.2018 03:56:20

4.1.1.1.2 Test Channel = MCH

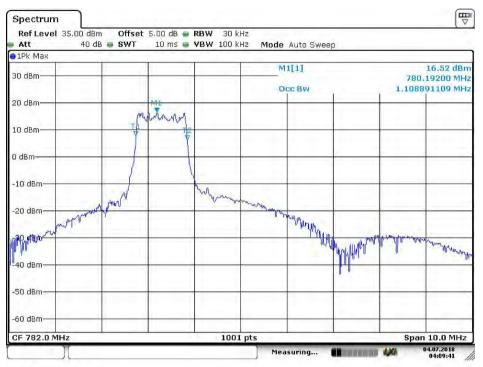


Date: 4.JUL.2018 04:10:15



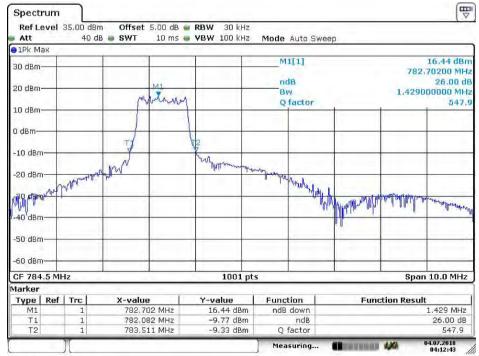
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Date: 4.JUL.2018 04:09:41

4.1.1.1.3 Test Channel = HCH

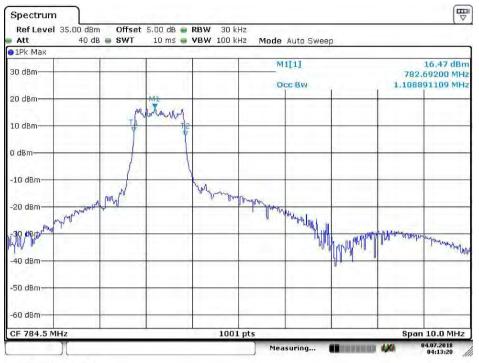


Date: 4.JUL.2018 04:12:43



Report No.: SZEM180400321702

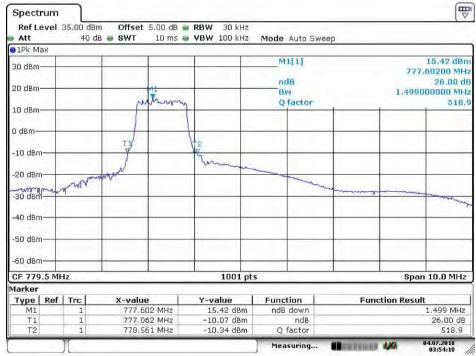
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Date: 4.JUL.2018 04:13:20

4.1.1.2 Test Mode = LTE-M1/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

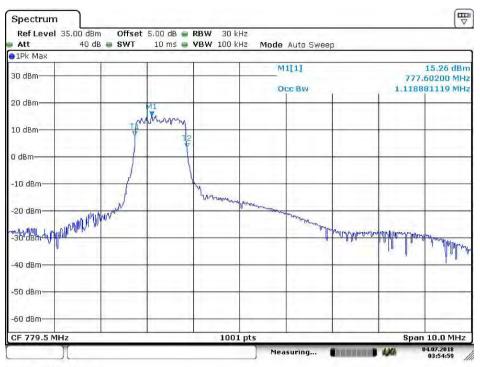


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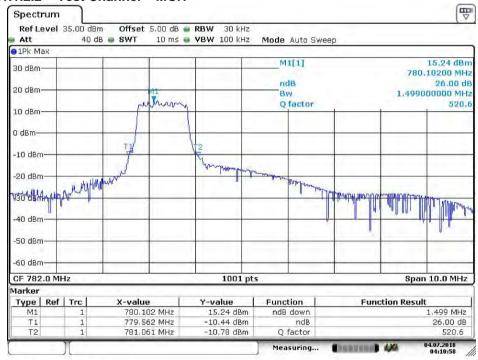
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Date: 4.JUL.2018 03:55:00

4.1.1.2.2 Test Channel = MCH

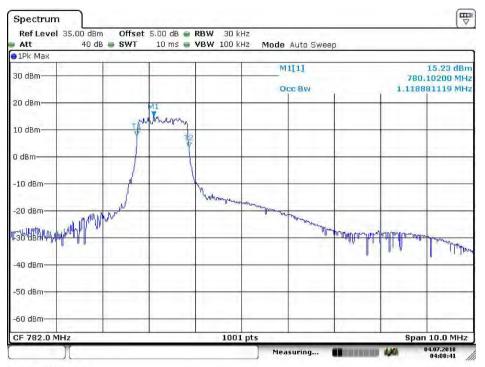


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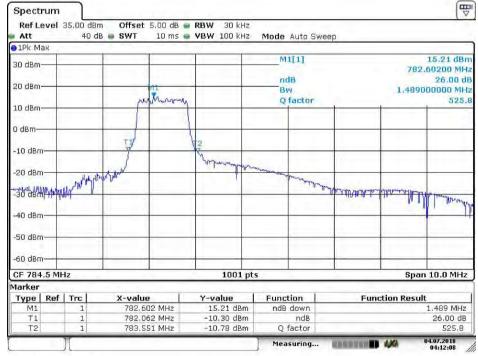
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Date: 4.JUL.2018 04:08:41

4.1.1.2.3 Test Channel = HCH



Date: 4.JUL.2018 04:12:08



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Date: 4.JUL.2018 04:14:11



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5 Band Edges Compliance

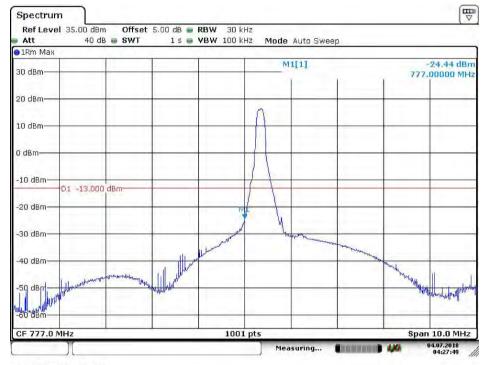
5.1 For LTE-M1

5.1.1 Test Band = LTE-M1 BAND13

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



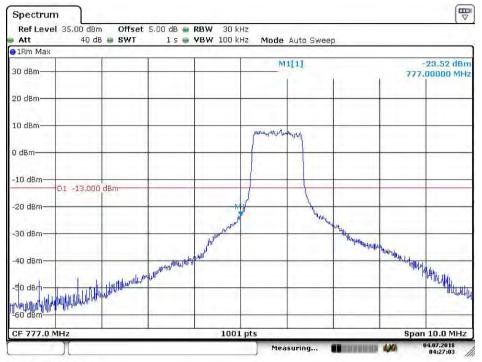
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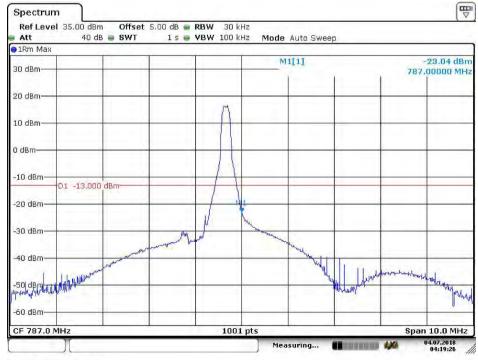
5.1.1.1.1.2 Test RB=6RB



Date: 4.JUL.2018 04:27:04

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 4.JUL.2018 04:19:26



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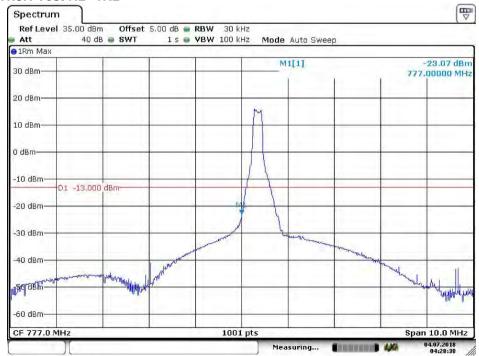
5.1.1.1.2.2 Test RB=6RB



Date: 4.JUL.2018 04:18:06

5.1.1.1.3 Test Channel = LCH

5.1.1.1.3.1 Test RB=1RB



Date: 4.JUL.2018 04:28:38

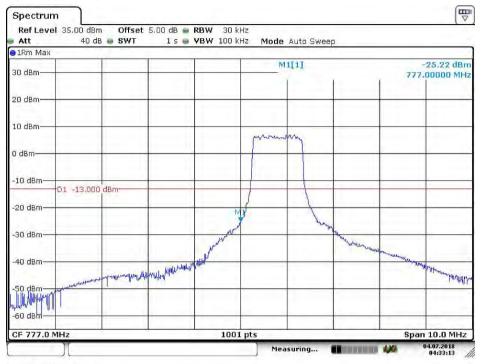
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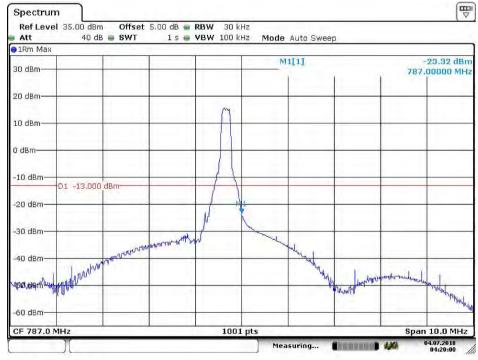
5.1.1.1.3.2 Test RB=6RB



Date: 4.JUL.2018 04:33:13

5.1.1.1.4 Test Channel = HCH

5.1.1.1.4.1 Test RB=1RB



Date: 4.JUL.2018 04:20:00

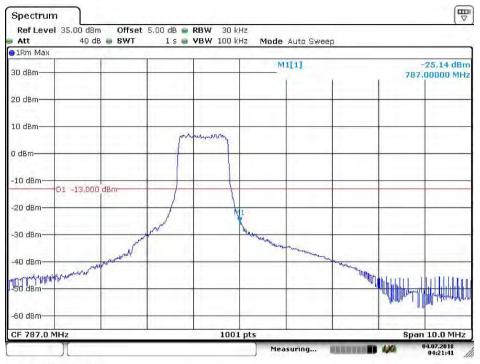
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5.1.1.1.4.2 Test RB=6RB



Date: 4.JUL.2018 04:21:40



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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 between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

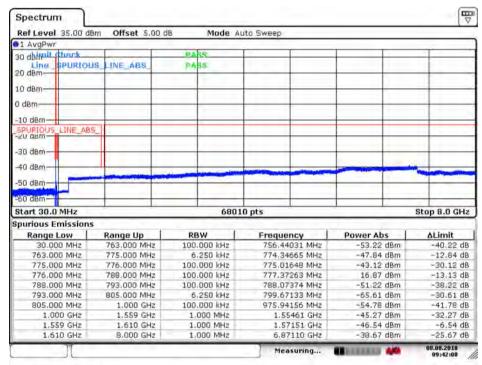
Part I - Test Plots

6.1 For LTE-M1

6.1.1 Test Band = LTE-M1 BAND13

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

6.1.1.1.1 Test Channel = LCH

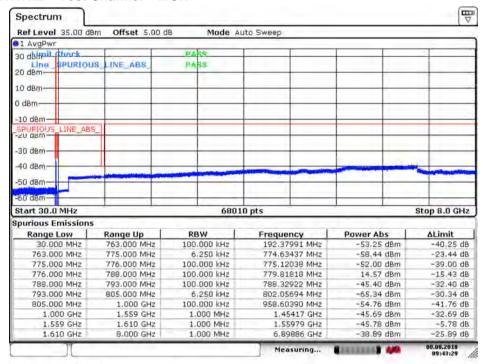




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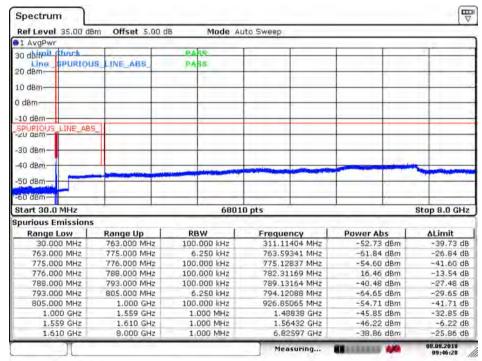
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6.1.1.1.2 Test Channel = MCH



Date: 8.AUG:2018 09:43:29

6.1.1.1.3 Test Channel = HCH



Date: 8.AUG.2018 09:46:28

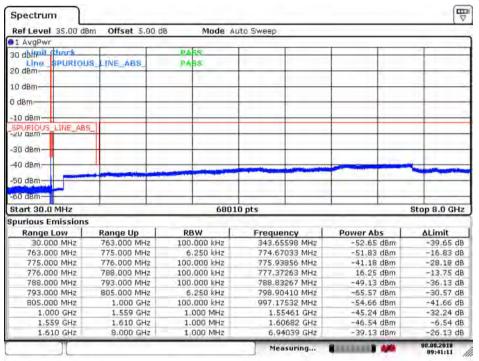


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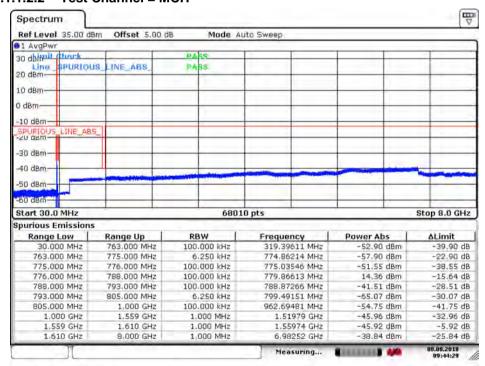
6.1.1.2 Test Mode = LTE-M1 / TM2 5MHz RB1#0

6.1.1.2.1 Test Channel = LCH



Date: 8.AUG.2018 09:41:11

6.1.1.2.2 Test Channel = MCH



Date: 8.AUG.2018 09:44:29

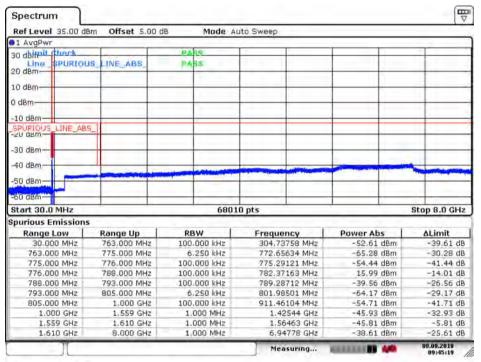
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6.1.1.2.3 Test Channel = HCH



Date: 8.AUG:2018 09:45:19



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7 Field Strength of Spurious Radiation

7.1 For LTE-M1

7.1.1 Test Band = LTE-M1 BAND13

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

7.1.1.1.1 Test Channel = LCH

	Test Chailler = LC	/1 1			
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
63.693333	-82.27	-13.00	-69.27	Vertical	
90.480000	-84.74	-13.00	-71.74	Vertical	
1554.500000	-53.20	-13.00	-40.20	Vertical	
2332.000000	-59.12	-13.00	-46.12	Vertical	
3109.200000	-67.75	-13.00	-54.75	Vertical	
6486.112500	-65.23	-13.00	-52.23	Vertical	
63.553333	-78.21	-13.00	-65.21	Horizontal	
104.293333	-84.38	-13.00	-71.38	Horizontal	
1554.500000	-52.64	-13.00	-39.64	Horizontal	
2332.500000	-58.92	-13.00	-45.92	Horizontal	
3109.200000	-65.06	-13.00	-52.06	Horizontal	
7451.362500	-66.14	-13.00	-53.14	Horizontal	

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.693333	-81.51	-13.00	-68.51	Vertical
104.246667	-83.92	-13.00	-70.92	Vertical
1559.500000	-54.36	-40.00	-14.36	Vertical
2339.000000	-58.22	-13.00	-45.22	Vertical
4298.212500	-67.09	-13.00	-54.09	Vertical
7919.850000	-63.99	-13.00	-50.99	Vertical
57.113333	-77.57	-13.00	-64.57	Horizontal
104.293333	-84.75	-13.00	-71.75	Horizontal
1560.000000	-50.80	-40.00	-10.80	Horizontal
2339.500000	-53.22	-13.00	-40.22	Horizontal
3118.950000	-65.09	-13.00	-52.09	Horizontal
7034.550000	-65.23	-13.00	-52.23	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.880000	-82.02	-13.00	-69.02	Vertical
104.246667	-85.19	-13.00	-72.19	Vertical
1565.000000	-54.61	-40.00	-14.61	Vertical
2347.000000	-59.20	-13.00	-46.20	Vertical
3129.187500	-67.68	-13.00	-54.68	Vertical
6486.600000	-65.26	-13.00	-52.26	Vertical
62.433333	-77.72	-13.00	-64.72	Horizontal
104.293333	-85.03	-13.00	-72.03	Horizontal
1564.500000	-50.78	-40.00	-10.78	Horizontal
2346.500000	-57.13	-13.00	-44.13	Horizontal
3129.675000	-67.45	-13.00	-54.45	Horizontal
7051.612500	-65.22	-13.00	-52.22	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
				VL	-13.81	-0.017711	PASS
		LCH	TN	VN	8.77	0.011255	PASS
				VH	3.89	0.004992	PASS
				VL	-0.63	-0.000803	PASS
	LTE-M1/TM1 5MHz	MCH	TN	VN	-8.99	-0.011493	PASS
	SIVII 12			VH	-9.38	-0.011997	PASS
		нсн	TN	VL	0.38	0.000490	PASS
				VN	-0.35	-0.000443	PASS
LTE-M1				VH	-3.82	-0.004872	PASS
BAND13		LCH	TN	VL	4.56	0.005845	PASS
				VN	1.54	0.001978	PASS
				VH	-6.47	-0.008306	PASS
				VL	6.67	0.008530	PASS
	LTE-M1/TM2 5MHz	MCH	TN	VN	-7.23	-0.009247	PASS
				VH	7.01	0.008963	PASS
		НСН	TN	VL	5.69	0.007256	PASS
				VN	-2.49	-0.003168	PASS
				VH	1.70	0.002170	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	-3.32	-0.004261	PASS
				-20	1.48	0.001905	PASS
				-10	-3.11	-0.003986	PASS
				0	-6.58	-0.008447	PASS
		LCH	VN	10	1.12	0.001434	PASS
				20	-7.66	-0.009822	PASS
				30	-3.43	-0.004396	PASS
				40	-6.51	-0.008354	PASS
				50	0.56	0.000721	PASS
				-30	-0.04	-0.000049	PASS
		мсн	VN	-20	2.49	0.003178	PASS
				-10	-0.86	-0.001101	PASS
LTE-M1	1 TE 144 (T144			0	9.97	0.012744	PASS
BAND13	LTE-M1/TM1 5MHz			10	-3.33	-0.004253	PASS
27 12				20	-0.68	-0.000872	PASS
				30	2.61	0.003332	PASS
				40	4.46	0.005705	PASS
				50	9.00	0.011511	PASS
				-30	-2.52	-0.003212	PASS
				-20	-2.30	-0.002937	PASS
				-10	-2.88	-0.003673	PASS
				0	-5.00	-0.006375	PASS
		НСН	VN	10	2.69	0.003433	PASS
				20	9.29	0.011840	PASS
				30	3.10	0.003949	PASS
				40	2.45	0.003117	PASS
				50	-5.04	-0.006422	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE-M1 BAND13	LTE-M1/TM2 5MHz	LCH	VN	-30	-0.98	-0.001261	PASS
				-20	4.57	0.005858	PASS
				-10	-2.68	-0.003437	PASS
				0	-8.96	-0.011501	PASS
				10	1.43	0.001834	PASS
				20	6.54	0.008386	PASS
				30	-2.27	-0.002914	PASS
				40	0.56	0.000717	PASS
				50	4.88	0.006263	PASS
		мсн	VN	-30	7.50	0.009592	PASS
				-20	-9.97	-0.012754	PASS
				-10	-8.08	-0.010339	PASS
				0	8.28	0.010584	PASS
				10	4.56	0.005835	PASS
				20	-0.39	-0.000503	PASS
				30	-3.50	-0.004470	PASS
				40	-3.84	-0.004917	PASS
				50	3.56	0.004552	PASS
		нсн	VN	-30	-8.87	-0.011306	PASS
				-20	-6.30	-0.008025	PASS
				-10	0.22	0.000279	PASS
				0	-0.99	-0.001259	PASS
				10	0.77	0.000983	PASS
				20	4.44	0.005659	PASS
				30	1.39	0.001770	PASS
				40	6.38	0.008131	PASS
				50	-0.12	-0.000148	PASS

The End