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Appendix B

LTE-M1 BAND26(814MHz-824MHz)



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (ERP) for LTE-M1 BAND26

Effective isotropic Nadiated Fower of Transmitter (EIX)					TO LIL-IVII I			
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.27	19.72	50.00	PASS
		LCH	RB1#5	23.25	19.7	50.00	PASS	
			RB6#0	22.25	18.7	50.00	PASS	
		LTE- M1/TM1 1.4M	MCH	RB1#0	23.26	19.71	50.00	PASS
BAND26				RB1#5	23.18	19.63	50.00	PASS
	101 17 1 101 1			RB6#0	22.24	18.69	50.00	PASS
				RB1#0	23.23	19.68	50.00	PASS
			HCH	RB1#5	23.25	19.7	50.00	PASS
				RB6#0	22.27	18.72	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.36	18.81	50.00	PASS
		LCH	RB1#5	22.46	18.91	50.00	PASS	
				RB6#0	21.15	17.6	50.00	PASS
			МСН	RB1#0	22.49	18.94	50.00	PASS
BAND26	LTE- M1/TM2	1.4M		RB1#5	22.44	18.89	50.00	PASS
	IVI 1/ 1 IVIZ			RB6#0	21.22	17.67	50.00	PASS
				RB1#0	22.47	18.92	50.00	PASS
			HCH	RB1#5	22.57	19.02	50.00	PASS
				RB6#0	21.13	17.58	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.18	19.63	50.00	PASS
		LCH	RB1#5	23.16	19.61	50.00	PASS	
			RB6#0	22.23	18.68	50.00	PASS	
		- 1 31//	МСН	RB1#0	23.13	19.58	50.00	PASS
BAND26	LTE-			RB1#5	23.17	19.62	50.00	PASS
	M1/TM1			RB6#0	22.32	18.77	50.00	PASS
				RB1#0	23.25	19.7	50.00	PASS
			НСН	RB1#5	23.21	19.66	50.00	PASS
				RB6#0	22.29	18.74	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.31	18.76	50.00	PASS
		3M	LCH	RB1#5	22.37	18.82	50.00	PASS
DANDOG	LTE-			RB6#0	21.11	17.56	50.00	PASS
BAND26	M1/TM2			RB1#0	22.42	18.87	50.00	PASS
			MCH	RB1#5	22.27	18.72	50.00	PASS
			-	RB6#0	21.19	17.64	50.00	PASS

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	RB1#0	22.43	18.88	50.00	PASS
HCH	RB1#5	22.35	18.8	50.00	PASS
	RB6#0	21.16	17.61	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.13	19.58	50.00	PASS
		LCH	RB1#5	23.23	19.68	50.00	PASS	
			RB6#0	22.15	18.6	50.00	PASS	
			MCH	RB1#0	23.16	19.61	50.00	PASS
BAND26	LTE- M1/TM1	5M		RB1#5	23.17	19.62	50.00	PASS
	101 1/ 1 101 1			RB6#0	22.21	18.66	50.00	PASS
				RB1#0	23.23	19.68	50.00	PASS
			HCH	RB1#5	23.07	19.52	50.00	PASS
				RB6#0	22.28	18.73	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.68	19.13	50.00	PASS
		LCH	RB1#5	22.75	19.2	50.00	PASS	
				RB6#0	21.18	17.63	50.00	PASS
			MCH	RB1#0	22.75	19.2	50.00	PASS
BAND26	LTE- M1/TM2	5M		RB1#5	22.67	19.12	50.00	PASS
	IVI I/ I IVIZ			RB6#0	21.33	17.78	50.00	PASS
				RB1#0	22.64	19.09	50.00	PASS
			HCH	RB1#5	22.67	19.12	50.00	PASS
				RB6#0	21.19	17.64	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
1.75			RB1#0	23.03	19.48	50.00	PASS	
BAND26	BAND26 LTE- M1/TM1	10M	MCH	RB1#5	23.12	19.57	50.00	PASS
IVI1/ I IVI	IVI I/ I IVI I			RB6#0	22.24	18.69	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 LTE- M1/TM2				RB1#0	22.48	18.93	50.00	PASS
	10M	MCH	RB1#5	22.63	19.08	50.00	PASS	
	IVI I / I IVIZ		-	RB6#0	21.22	17.67	50.00	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
	TN44/5N4	LCH	5.19	13	PASS
	TM1/5M Full RB	MCH	4.87	13	PASS
	I dirkb	HCH	4.93	13	PASS
	TD 44 /5D 4	LCH	4.64	13	PASS
	TM1/5M 1 RB	MCH	4.72	13	PASS
BAND26	TIND	HCH	4.49	13	PASS
DAIND20		LCH	5.62	13	PASS
	TM2/5M Full RB	MCH	5.80	13	PASS
	I dil ND	HCH	5.74	13	PASS
	TNAO/ENA	LCH	5.13	13	PASS
	TM2/5M 1 RB	MCH	5.28	13	PASS
	TIND	HCH	5.10	13	PASS

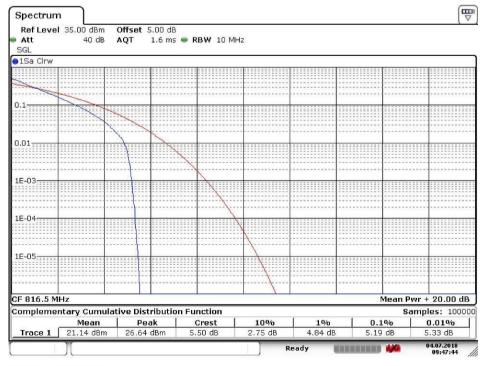
Part II - Test Plots

2.1 For LTE-M1

2.1.1 Test Band = LTE-M1 BAND26(814MHz-824MHz)

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

2.1.1.1.1 Test Channel = LCH



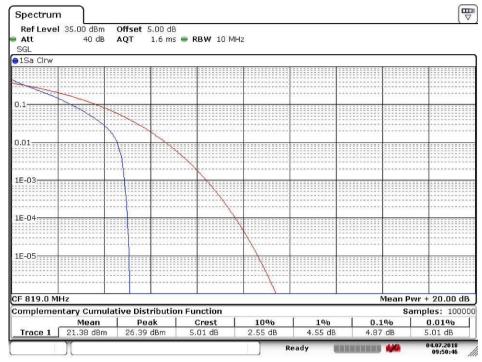
Date: 4.JUL.2018 09:47:45



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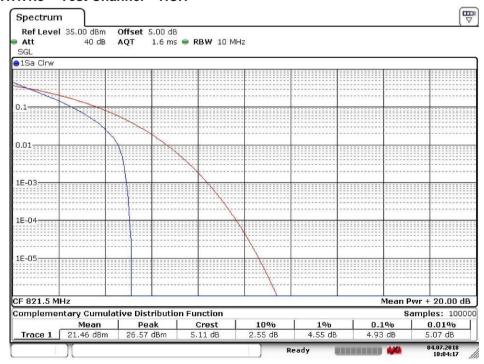
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2.1.1.1.2 Test Channel = MCH



Date: 4.JUL.2018 09:50:46

2.1.1.1.3 Test Channel = HCH



Date: 4.JUL.2018 10:04:17

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

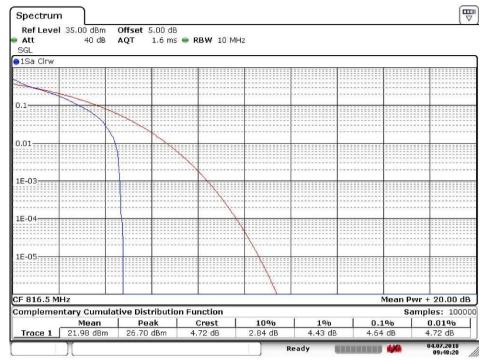
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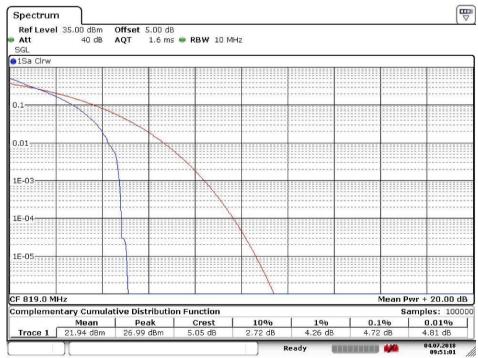
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2.1.1.2.1 Test Channel = LCH



Date: 4.JUL.2018 09:48:20

2.1.1.2.2 Test Channel = MCH



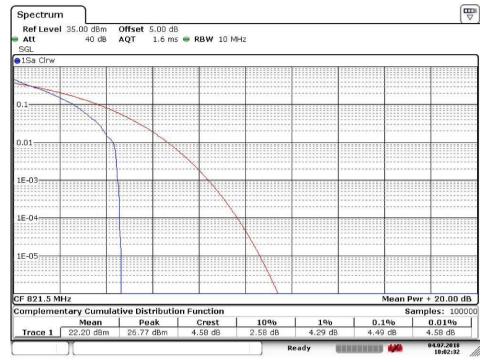
Date: 4.JUL.2018 09:51:01



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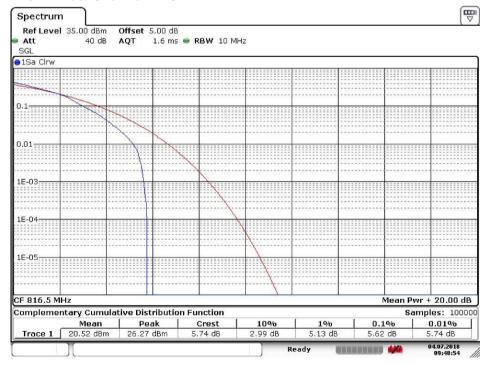
2.1.1.2.3 Test Channel = HCH



Date: 4.JUL.2018 10:02:33

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

2.1.1.3.1 Test Channel = LCH



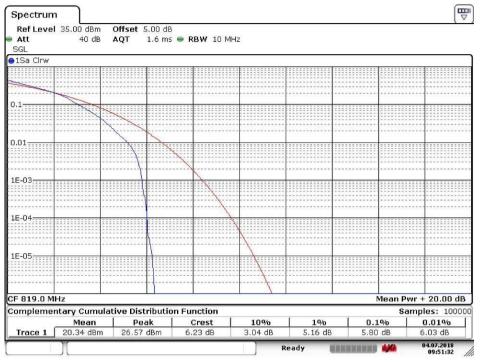
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Report No.: SZEM180400321702

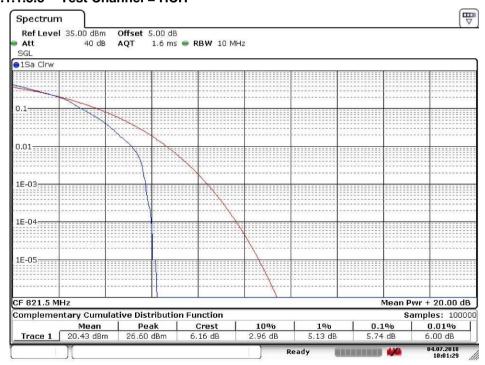
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2.1.1.3.2 Test Channel = MCH



Date: 4.JUL.2018 09:51:33

2.1.1.3.3 Test Channel = HCH



Date: 4.JUL.2018 10:01:30

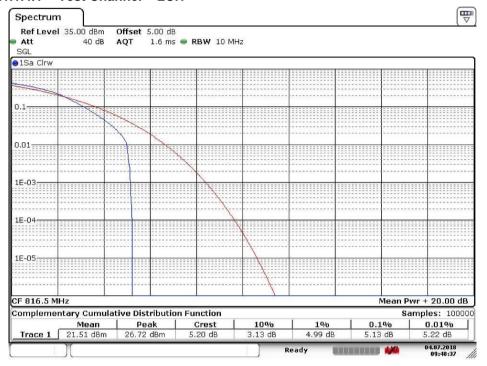


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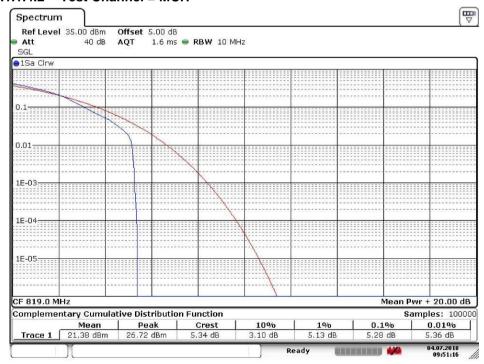
2.1.1.4 Test Mode = LTE-M1/TM2.Bandwidth=5MHz 1 RB

2.1.1.4.1 Test Channel = LCH



Date: 4.JUL.2018 09:48:37

2.1.1.4.2 Test Channel = MCH



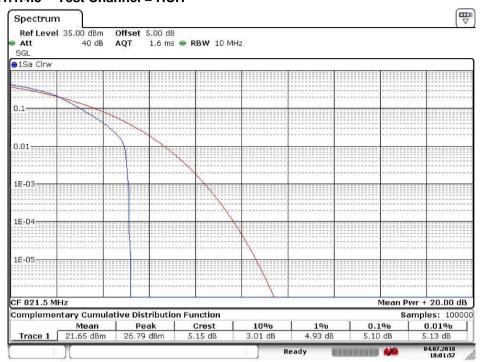
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2.1.1.4.3 Test Channel = HCH



Date: 4.JUL.2018 10:01:57



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3 Modulation Characteristics

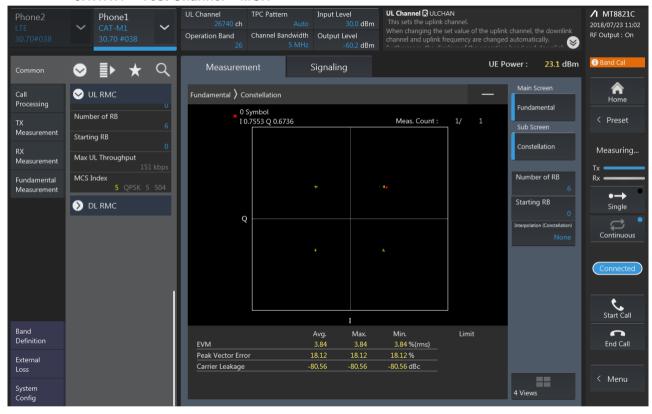
Part I - Test Plots

3.1 For LTE-M1

3.1.1 Test Band = LTE-M1 BAND26(814MHz-824MHz)

3.1.1.1 Test Mode = LTE-M1 /TM1 5MHz

3.1.1.1.1 Test Channel = MCH

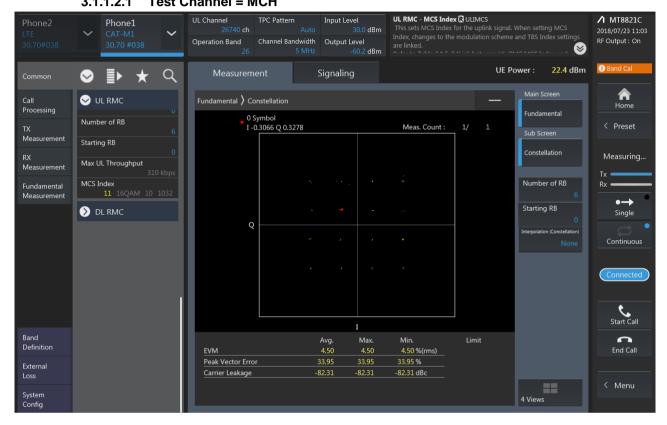




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3.1.1.2 Test Mode = LTE-M1 /TM2 5MHz 3.1.1.2.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

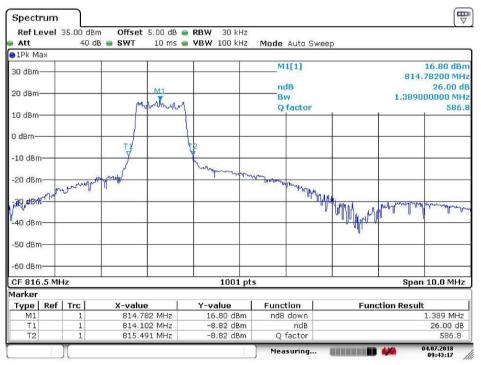
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.10	1.38	PASS
	TM1/5MHz	MCH	1.10	1.40	PASS
DANDOG		HCH	1.10	1.40	PASS
BAND26		LCH	1.11	1.48	PASS
	TM2/ 5MHz	MCH	1.11	1.47	PASS
		HCH	1.11	1.46	PASS

4.1 For LTE

4.1.1 Test Band = LTE-M1 BAND26(814MHz-824MHz)

4.1.1.1 Test Mode = LTE-M1/TM1 5MHz

4.1.1.1.1 Test Channel = LCH

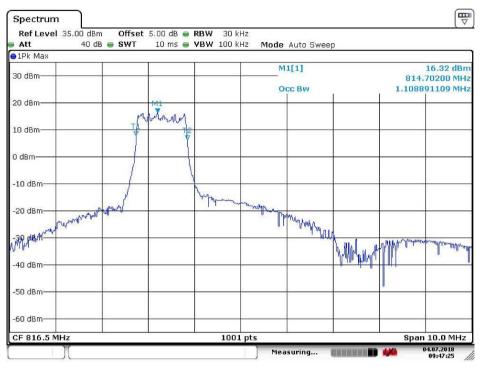


Date: 4.JUL.2018 09:43:18



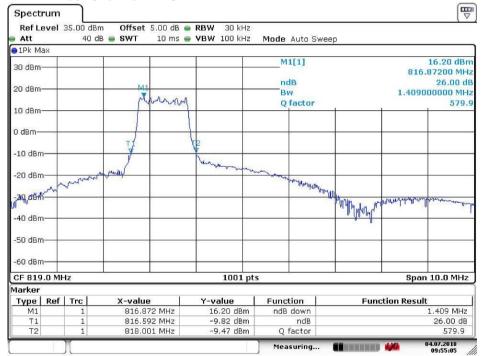
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Date: 4.JUL.2018 09:47:25

4.1.1.1.2 Test Channel = MCH

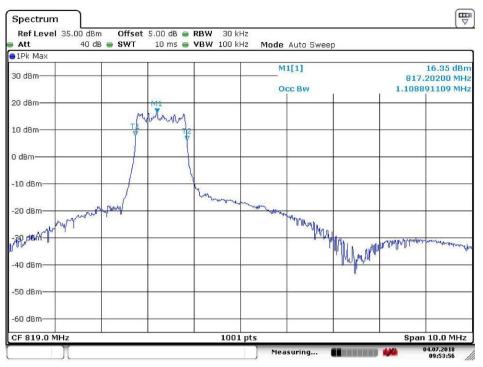


Date: 4.JUL.2018 09:55:06



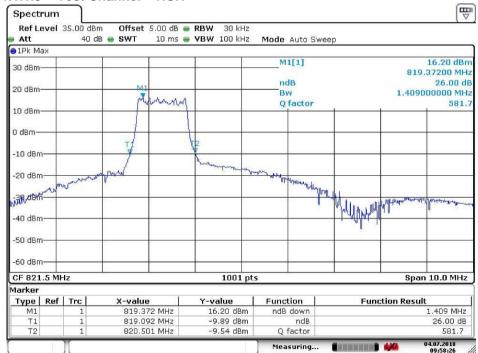
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Date: 4.JUL.2018 09:53:57

4.1.1.1.3 Test Channel = HCH

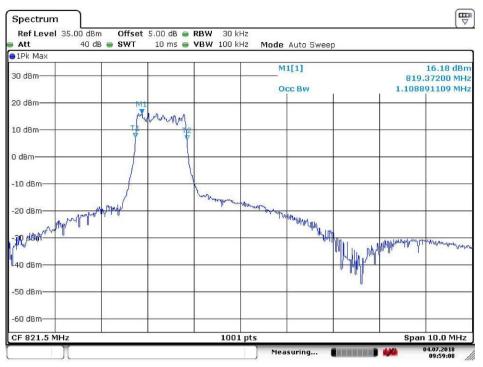


Date: 4.JUL.2018 09:58:26



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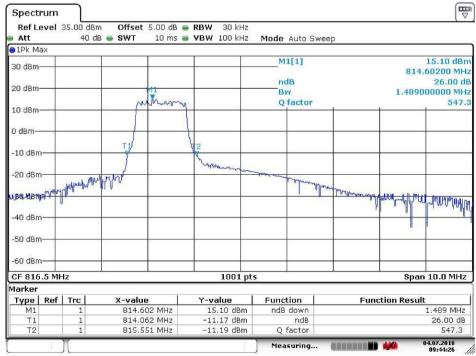
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Date: 4.JUL.2018 09:59:08

4.1.1.2 Test Mode = LTE-M1/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

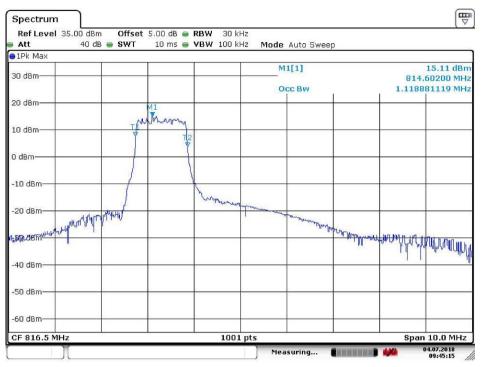


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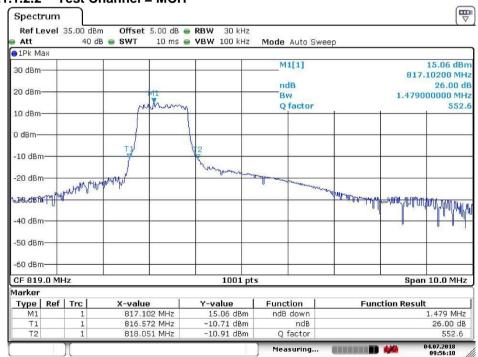
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Date: 4.JUL.2018 09:45:16

4.1.1.2.2 Test Channel = MCH

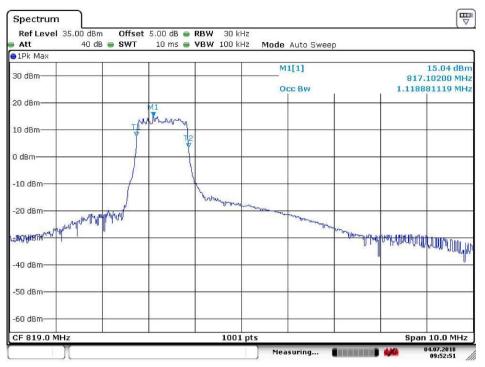


Date: 4.JUL.2018 09:56:10



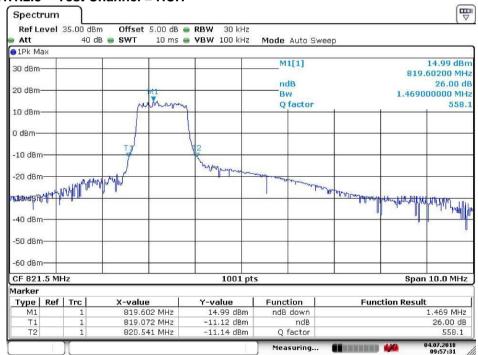
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Date: 4.JUL.2018 09:52:52

4.1.1.2.3 Test Channel = HCH

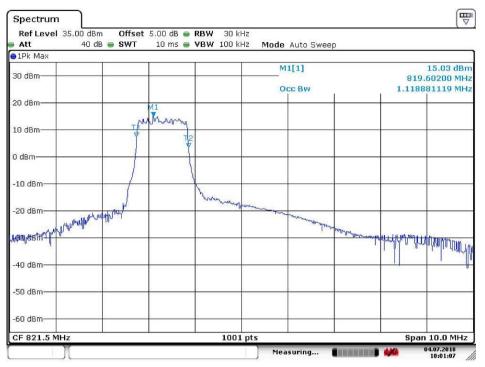


Date: 4,JUL.2018 09:57:31



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Date: 4.JUL.2018 10:01:07



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5 Emission Mask

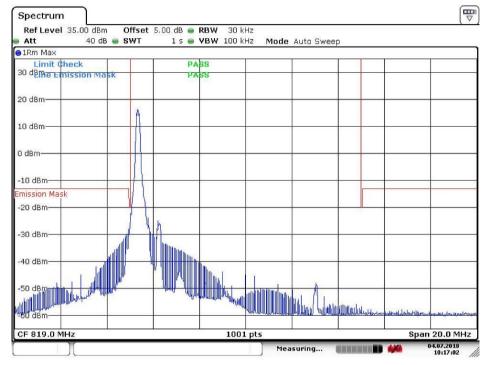
5.1 For LTE-M1

5.1.1 Test Band = LTE-M1 BAND26(814MHz-824MHz)

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



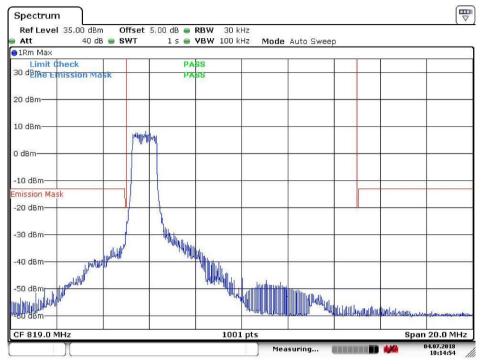
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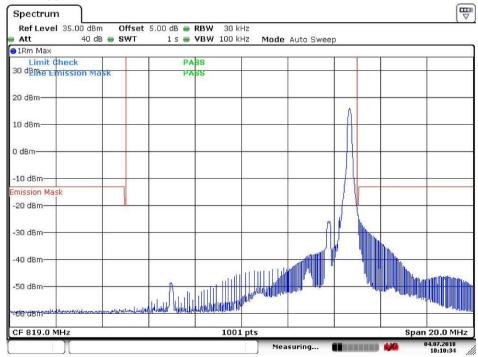
5.1.1.1.1.2 Test RB=6RB



Date: 4.JUL.2018 10:14:54

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



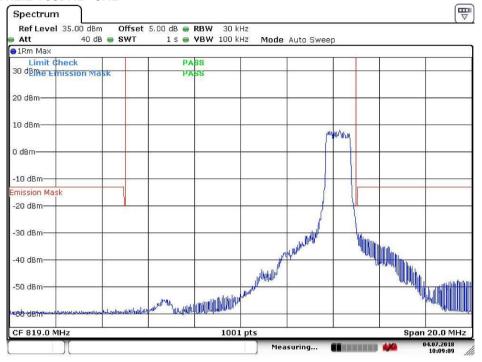
Date: 4.JUL.2018 10:10:34



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5.1.1.1.2.2 Test RB=6RB

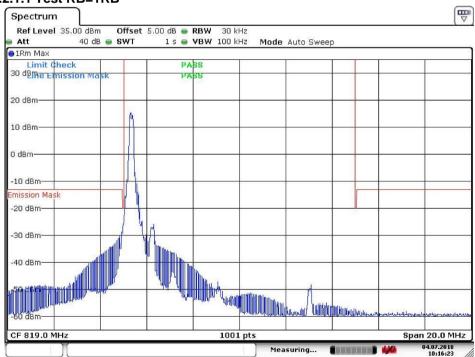


Date: 4.JUL.2018 10:09:09

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



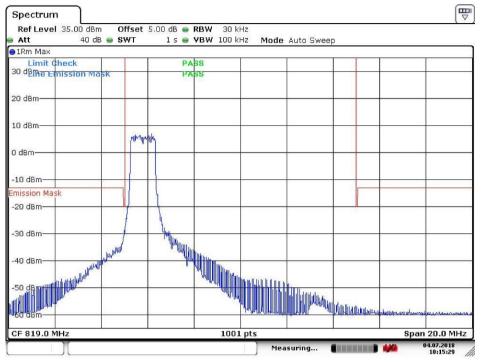
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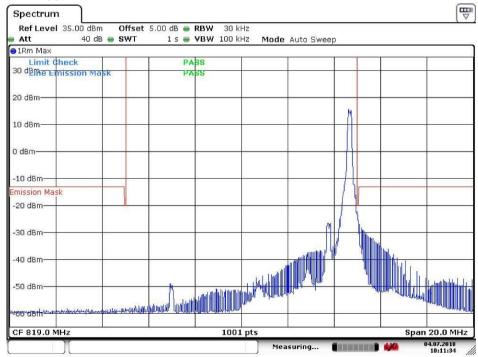
5.1.1.2.1.2 Test RB=6RB



Date: 4.JUL.2018 10:15:29

5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



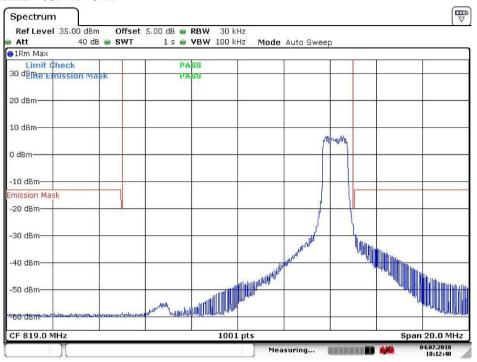
Date: 4.JUL.2018 10:11:34



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5.1.1.2.2.2 Test RB=6RB



Date: 4.JUL.2018 10:12:40



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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.

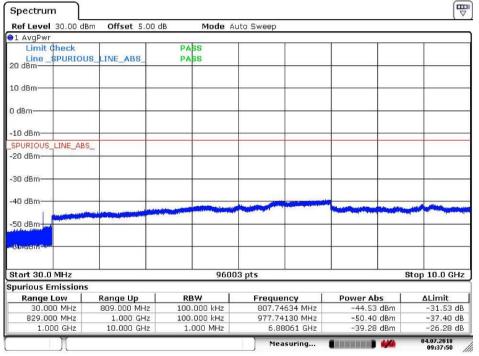
Part I - Test Plots

6.1 For LTE-M1

6.1.1 Test Band = LTE-M1 BAND26(814MHz-824MHz)

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

6.1.1.1.1 Test Channel = LCH



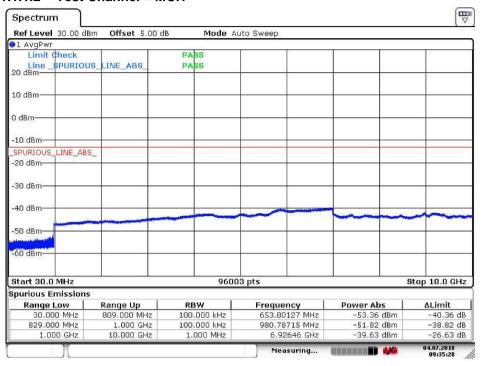
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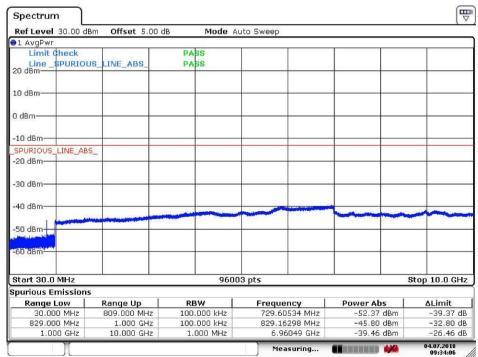
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6.1.1.1.2 Test Channel = MCH



Date: 4.JUL.2018 09:35:28

6.1.1.1.3 Test Channel = HCH



Date: 4.JUL.2018 09:34:06

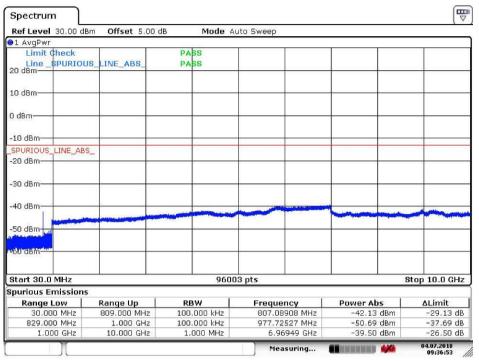


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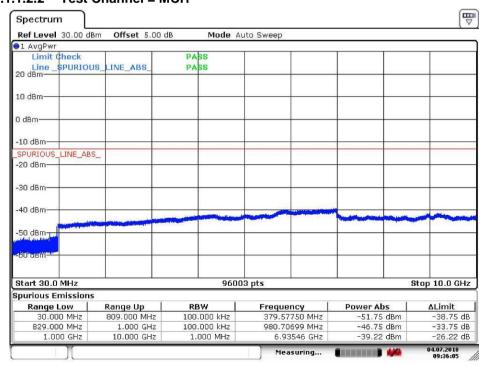
6.1.1.2 Test Mode = LTE-M1 / TM2 5MHz RB1#0

6.1.1.2.1 Test Channel = LCH



Date: 4.JUL.2018 09:36:53

6.1.1.2.2 Test Channel = MCH



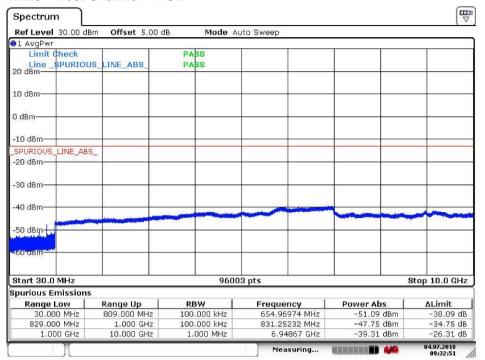
Date: 4.JUL.2018 09:36:06



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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 BAND26(814MHz-824MHz)

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

7.1.1.1.1 Test Channel = LCH

	rest Chailler = LC	71 1		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.533333	-81.98	-13.00	-68.98	Vertical
90.480000	-83.79	-13.00	-70.79	Vertical
977.816667	-55.84	-13.00	-42.84	Vertical
1629.000000	-59.11	-13.00	-46.11	Vertical
2442.500000	-54.78	-13.00	-41.78	Vertical
3257.400000	-66.22	-13.00	-53.22	Vertical
62.340000	-78.22	-13.00	-65.22	Horizontal
977.725000	-49.01	-13.00	-36.01	Horizontal
1629.000000	-56.45	-13.00	-43.45	Horizontal
2443.500000	-55.99	-13.00	-42.99	Horizontal
3256.912500	-65.30	-13.00	-52.30	Horizontal
3445.575000	-64.03	-13.00	-51.03	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.253333	-81.92	-13.00	-68.92	Vertical
653.820833	-60.45	-13.00	-47.45	Vertical
1634.000000	-59.33	-13.00	-46.33	Vertical
2450.500000	-55.56	-13.00	-42.56	Vertical
3267.150000	-66.94	-13.00	-53.94	Vertical
6534.862500	-64.38	-13.00	-51.38	Vertical
63.553333	-78.14	-13.00	-65.14	Horizontal
633.791667	-63.99	-13.00	-50.99	Horizontal
980.750000	-47.03	-13.00	-34.03	Horizontal
1634.000000	-56.21	-13.00	-43.21	Horizontal
2450.500000	-56.07	-13.00	-43.07	Horizontal
3455.812500	-64.08	-13.00	-51.08	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.413333	-82.38	-13.00	-69.38	Vertical
90.480000	-83.53	-13.00	-70.53	Vertical
655.837500	-67.75	-13.00	-54.75	Vertical
1638.500000	-59.99	-13.00	-46.99	Vertical
2457.500000	-55.45	-13.00	-42.45	Vertical
3276.412500	-67.67	-13.00	-54.67	Vertical
62.993333	-77.84	-13.00	-64.84	Horizontal
655.745833	-61.88	-13.00	-48.88	Horizontal
983.775000	-46.90	-13.00	-33.90	Horizontal
1638.500000	-56.12	-13.00	-43.12	Horizontal
2457.500000	-55.55	-13.00	-42.55	Horizontal
3465.562500	-65.38	-13.00	-52.38	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	-10.51	-0.012876	PASS
				VN	-2.01	-0.002463	PASS
				VH	-5.44	-0.006663	PASS
	LTE-M1/TM1 5MHz		TN	VL	-4.47	-0.005452	PASS
		MCH		VN	-4.15	-0.005065	PASS
				VH	5.35	0.006532	PASS
		НСН	TN	VL	9.78	0.011909	PASS
				VN	-8.62	-0.010491	PASS
LTE-M1				VH	-2.37	-0.002881	PASS
BAND26	LTE-M1/TM2 5MHz	LCH	TN	VL	-5.96	-0.007294	PASS
				VN	6.85	0.008388	PASS
				VH	-6.06	-0.007423	PASS
		мсн	TN	VL	-6.24	-0.007625	PASS
				VN	8.13	0.009925	PASS
				VH	-4.01	-0.004895	PASS
		нсн 1	TN	VL	6.86	0.008347	PASS
				VN	3.88	0.004723	PASS
				VH	-4.78	-0.005823	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	5.79	0.007097	PASS
				-20	4.44	0.005443	PASS
				-10	-8.69	-0.010645	PASS
				0	0.90	0.001107	PASS
		LCH		10	4.97	0.006084	PASS
				20	-9.62	-0.011785	PASS
				30	-4.27	-0.005225	PASS
				40	-3.09	-0.003788	PASS
				50	-1.89	-0.002320	PASS
	LTE-M1/TM1 5MHz		VN	-30	7.21	0.008798	PASS
				-20	3.16	0.003853	PASS
		МСН		-10	8.45	0.010312	PASS
LTE-M1				0	9.06	0.011058	PASS
BAND26				10	-3.79	-0.004629	PASS
B/ ((1)20				20	-5.27	-0.006432	PASS
				30	3.77	0.004606	PASS
				40	-3.90	-0.004757	PASS
				50	2.60	0.003169	PASS
			VN	-30	9.39	0.011430	PASS
				-20	7.01	0.008537	PASS
				-10	4.24	0.005158	PASS
				0	8.53	0.010384	PASS
		HCH		10	-7.41	-0.009020	PASS
				20	-4.12	-0.005012	PASS
				30	9.35	0.011378	PASS
				40	-3.64	-0.004429	PASS
				50	4.76	0.005794	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
				-30	-7.00	-0.008579	PASS	
				-20	9.41	0.011531	PASS	
					-10	7.42	0.009089	PASS
			VN	0	-8.53	-0.010449	PASS	
		LCH		10	7.50	0.009183	PASS	
				20	3.11	0.003809	PASS	
				30	8.02	0.009822	PASS	
				40	-6.35	-0.007782	PASS	
	LTE-M1/TM2 5MHz			50	-3.13	-0.003837	PASS	
			VN	-30	1.57	0.001912	PASS	
				-20	-0.13	-0.000154	PASS	
		MCH		-10	2.61	0.003186	PASS	
LTE-M1				0	-5.54	-0.006764	PASS	
BAND26				10	6.39	0.007797	PASS	
				20	5.48	0.006695	PASS	
				30	2.27	0.002768	PASS	
				40	-3.00	-0.003660	PASS	
				50	-4.58	-0.005595	PASS	
				-30	-1.89	-0.002301	PASS	
				-20	2.44	0.002970	PASS	
				-10	1.16	0.001416	PASS	
				0	3.73	0.004538	PASS	
		HCH	VN	10	-2.20	-0.002677	PASS	
				20	-5.53	-0.006736	PASS	
				30	6.67	0.008119	PASS	
				40	-6.16	-0.007499	PASS	
				50	-7.88	-0.009597	PASS	

The End