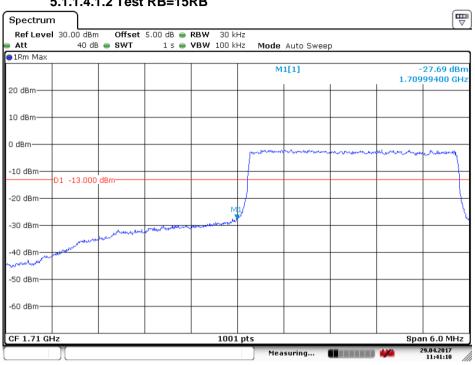


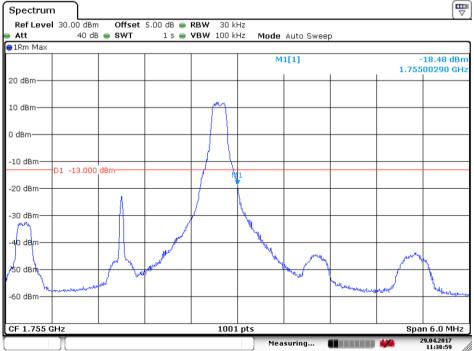
Report No.: SZEM1701001110301 Page: 47 of 73



Date: 29.APR.2017 11:41:10







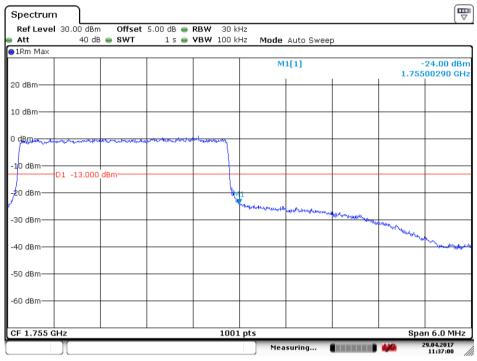
Date: 29.APR.2017 11:39:00

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5.1.1.4.1.2 Test RB=15RB



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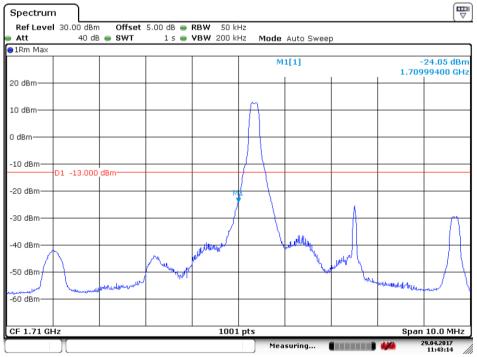
5.1.1.4.3 Test RB=15RB

Date: 29.APR.2017 11:37:00

5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

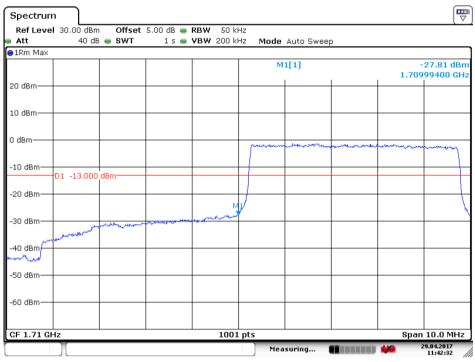
5.1.1.5.1.1 Test RB=1RB



Date: 29.APR.2017 11:43:14



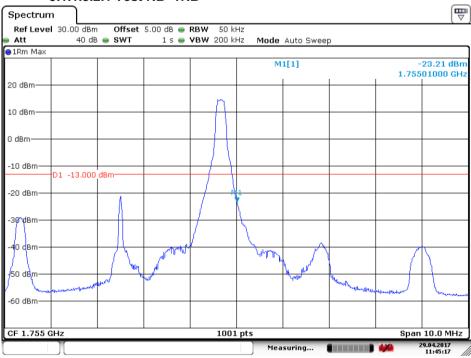
Report No.: SZEM1701001110301 Page: 49 of 73



5.1.1.5.1.2 Test RB=25RB

Date: 29.APR.2017 11:42:32





5.1.1.5.2.1 Test RB=1RB

Date: 29.APR.2017 11:45:18



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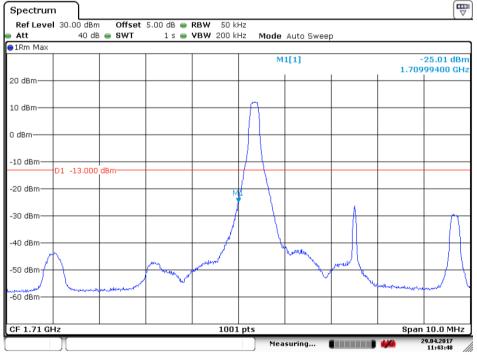


Date: 29.APR.2017 11:45:52

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



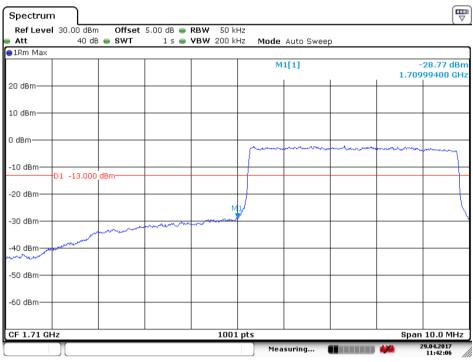
Date: 29.APR.2017 11:43:49

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5.1.1.5.2.2 Test RB=25RB



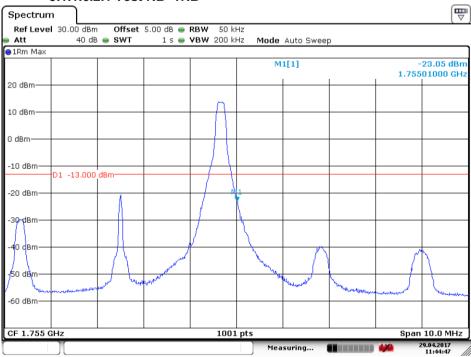
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5.1.1.6.1.2 Test RB=25RB

Date: 29.APR.2017 11:42:06





5.1.1.6.2.1 Test RB=1RB

Date: 29.APR.2017 11:44:47



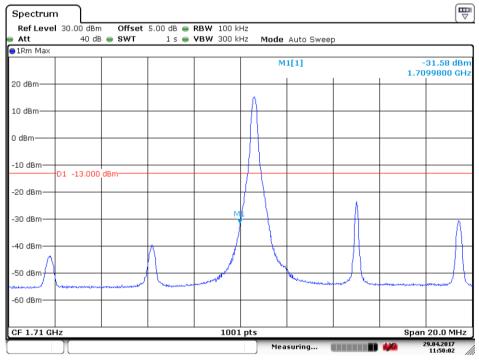
Report No.: SZEM1701001110301 Page: 52 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] -24.52 dBn 1.75501000 GH 20 dBm 10 dBm· 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm -60 dBm CF 1.755 GHz 1001 pts Span 10.0 MHz 29.04.2017 11:46:53 Measuring...

Date: 29.APR.2017 11:46:53

5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



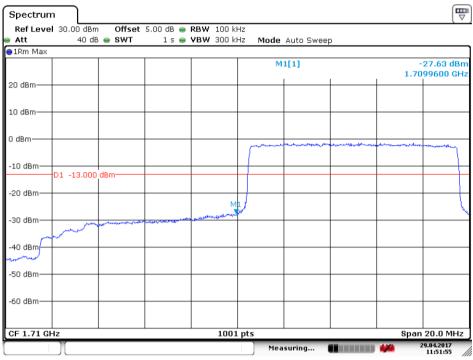
Date: 29.APR.2017 11:50:03

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5.1.1.6.2.2 Test RB=25RB



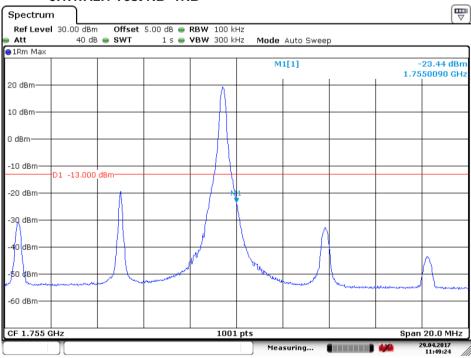
Report No.: SZEM1701001110301 Page: 53 of 73



5.1.1.7.1.2 Test RB=50RB

Date: 29.APR.2017 11:51:55





5.1.1.7.2.1 Test RB=1RB

Date: 29.APR.2017 11:49:24



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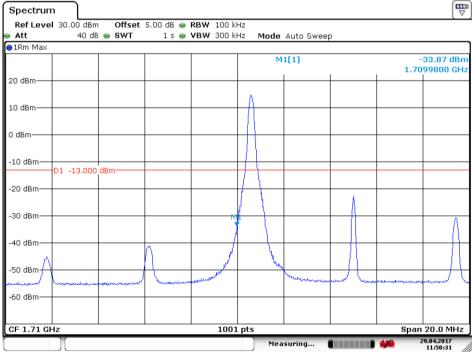


Date: 29.APR.2017 11:47:53

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



Date: 29.APR.2017 11:50:31

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5.1.1.7.2.2 Test RB=50RB



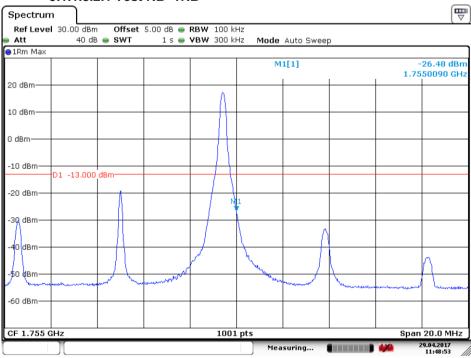
Report No.: SZEM1701001110301 Page: 55 of 73



5.1.1.8.1.2 Test RB=50RB

Date: 29.APR.2017 11:51:24





5.1.1.8.2.1 Test RB=1RB

Date: 29.APR.2017 11:48:54



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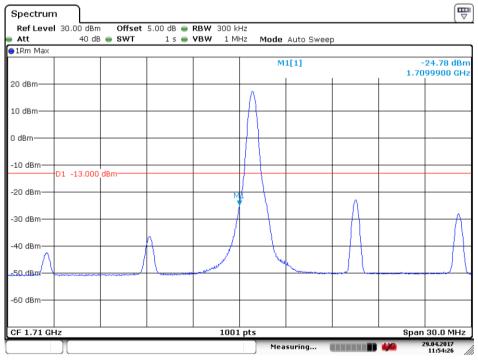


5.1.1.8.2.2 Test RB=50RB

Date: 29.APR.2017 11:48:24

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

5.1.1.9.1.1 Test RB=1RB



Date: 29.APR.2017 11:54:26

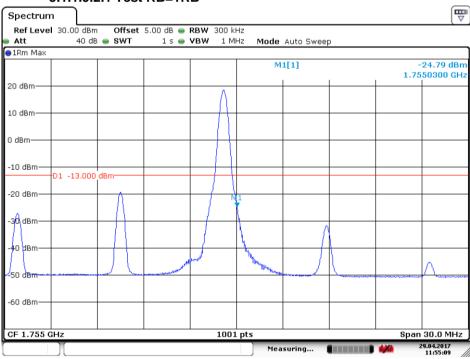


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Date: 29.APR.2017 11:53:05





5.1.1.9.2.1 Test RB=1RB

Date: 29.APR.2017 11:55:10

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5.1.1.9.1.2 Test RB=75RB



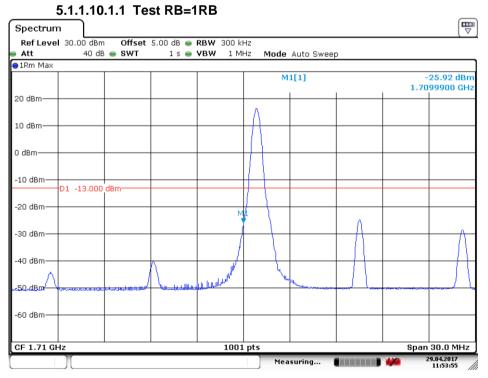
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Date: 29.APR.2017 11:56:22

5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH



Date: 29.APR.2017 11:53:55

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5.1.1.9.2.2 Test RB=75RB



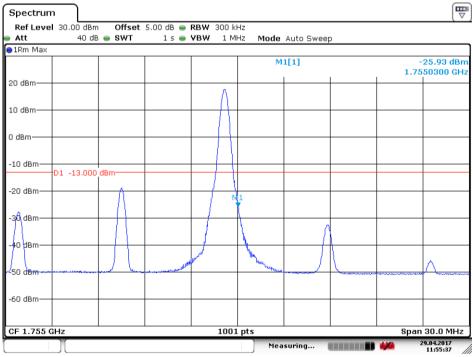
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5.1.1.10.1.2 Test RB=75RB

Date: 29.APR.2017 11:53:28





5.1.1.10.2.1 Test RB=1RB

Date: 29.APR.2017 11:55:38



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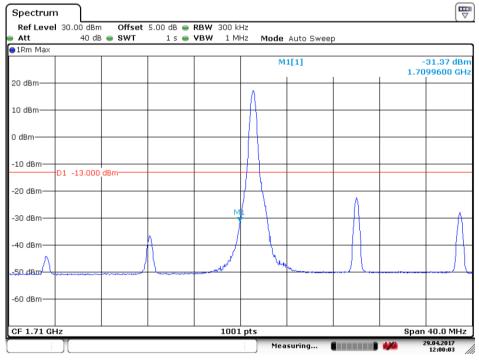


5.1.1.10.2.2 Test RB=75RB

Date: 29.APR.2017 11:55:59

5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

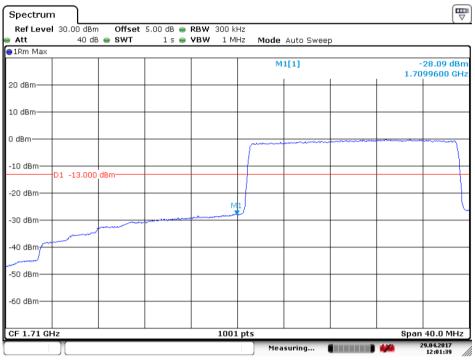
5.1.1.11.1.1 Test RB=1RB



Date: 29.APR.2017 12:00:03



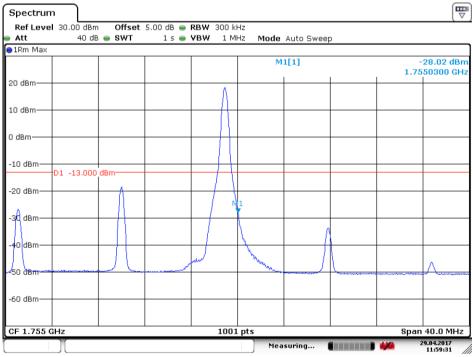
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5.1.1.11.1.2 Test RB=100RB

Date: 29.APR.2017 12:01:40





5.1.1.11.2.1 Test RB=1RB

Date: 29.APR.2017 11:59:32



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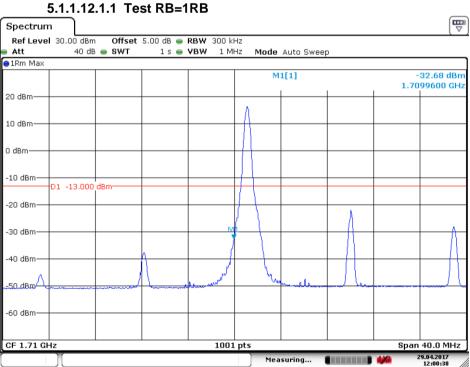


5.1.1.11.2.2 Test RB=100RB

Date: 29.APR.2017 11:58:11

5.1.1.12 Test Mode = LTE/TM2 20MHz

5.1.1.12.1 Test Channel = LCH



Date: 29.APR.2017 12:00:38



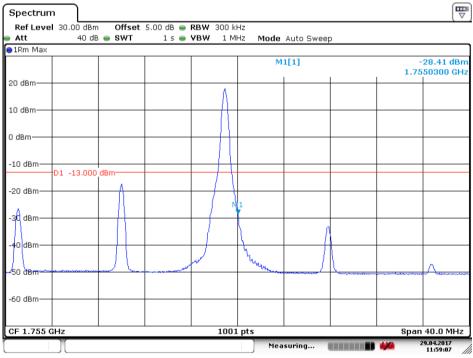
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5.1.1.12.1.2 Test RB=100RB

Date: 29.APR.2017 12:01:13





5.1.1.12.2.1 Test RB=1RB

Date: 29.APR.2017 11:59:07



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5.1.1.12.2.2 Test RB=100RB

Date: 29.APR.2017 11:58:39

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6 Spurious Emission at Antenna Terminal

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

6.1 For LTE

6.1.1 Test Band = LTE band4

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

₽ Spectrum Ref Level 20.00 dBm Offset 5.00 dB 👄 RBW 100 kHz 25 dB Att SWT 1.1 ms 👄 **VBW** 300 kHz Mode Auto FFT ●1Pk Max M1[1] -56.79 dBn 811.9992 MH 10 dBm 0 dBm -10 dBm· D1 -13.000 dBm--20 dBm -30 dBm 40 dBm -50 dBm -60 HBm----70 dBm Start 30.0 MHz 20001 pts Stop 1.0 GHz Measuring... 17.05.2017

6.1.1.1.1 Test Channel = LCH

Date: 17.MAY.2017 09:27:47

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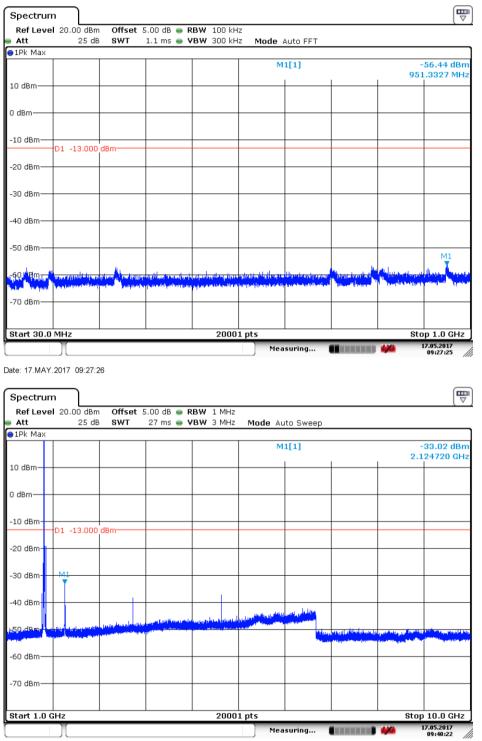
										eport No. age:	.: SZEM1701001110301 66 of 73
Spectrun											
Ref Leve) dBm	Offset	5.00 dB 👄	RBW 1 MHz					[]	
Att 🗧		25 dB	SWT		VBW 3 MHz	Mode Au	uto Sweep				
⊖1Pk Max				1			1[1]			-30.11 dBm	
						IN IN	1[1]			13020 GHz	
10 dBm											
0 dBm											
-10 dBm	D1 -13		dD m								
-20 dBm		5.000	ubiii								
-30 dBm-	м1										
-40 dBm-			i								
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-60 dBm			an an an tha					a ni i glanna i ripena a pripi Antono secondo presentation			
-70 dBm											
Start 1.0 G	GHz				2000	1 pts			Stop	0 10.0 GHz	
Date: 17.MAY.	.2017 0	9:39:3	0			Mea	suring		444	17.05.2017 09:39:29	
Spectrun Ref Leve) dBm	Offset	5.00 dB 👄	RBW 1 MHz						
Att		25 dB	S₩T	30 ms 👄	VBW 3 MHz	Mode Au	ito Sweep				
●1Pk Max						M	1[1]			-45.90 dBm	
10 dBm									19.9	953750 GHz	
0 dBm											
-10 dBm	D1 -13	3 000	dBm								
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-30 dBm											
-40 dBm										M)	
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-60 dBm—											
-70 dBm											
Start 10.0	GHz				2000	11 pts			Stor	20.0 GHz	
							isuring			17.05.2017 10:04:08	

Date: 17.MAY.2017 10:04:08

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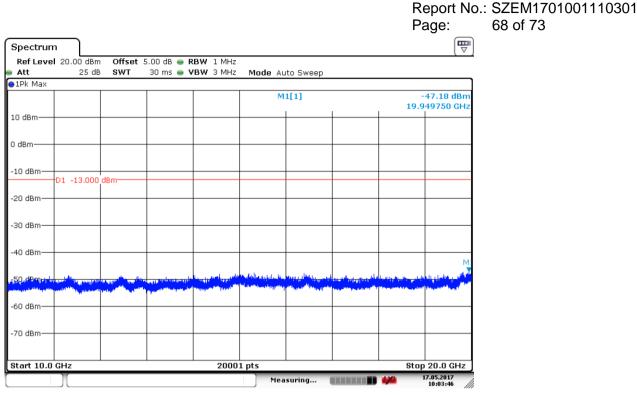


6.1.1.1.2 Test Channel = MCH

Date: 17.MAY.2017 09:40:23



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Date: 17.MAY.2017 10:03:46



Spectrum	n							
	l 20.00 dBm		5.00 dB 👄 I					
Att 1Pk Max	25 dB	SWT	1.1 ms 🖷 🕻	VBW 300 kH:	Z Mode /	Auto FFT		
о1Рк Мах					м	1[1]		-56.31 dBn
						1(1)		3.6653 MH
10 dBm								
0 dBm								
-10 dBm—	D1 -13.000	dBm						
	D1 -13.000							
-20 dBm—								
-30 dBm								
-40 dBm								
-40 ubiii								
-50 dBm								
-30 ubm								M1
-60 HBm			A DITO NAME AND ADDRESS				No. of state trail	
			n a substantia a substantia A substantia a substantia substantia di				April a function	polodier Alean
-70 dBm								
Start 30.0	MU ₂			2000:	Inte		etc	p 1.0 GHz
atart 30.0				2000.				ים ד.ט פרב 17.05.2017
					Mea	suring	-	09:26:54

Date: 17 MAY 2017 09:26:54

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										Page:	
Spectrun										•	
	I 20.00 de	Bm Offset	5.00 dB 👄	RBW	1 MHz						(~
Att	25				3 MHz	Mode Au	to Sweep				
1Pk Max											
						M	1[1]			-32.51 2.149470	
.0 dBm—				_					+		
dBm —				+							
10 dBm	D1 -13.00										
	DI -13.00										
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50 dBm											
bo abiii											
70 dBm											
tart 1.0 0	Hz				2000	1 pts				top 10.0 17.05.201	
	.2017 09:4	1:02									
	n I 20.00 de	Bm Offset	5.00 dB 👄	RBW	1 MHz						
Ref Leve Att	n	Bm Offset	5.00 dB 👄 30 ms 👄			Mode Au	to Sweep				
Spectrun Ref Leve Att 1Pk Max	n I 20.00 de	Bm Offset								-46.24	
Ref Leve Att	n I 20.00 de	Bm Offset					to Sweep 1[1]			-46.24	dBm
Ref Leve Att 1Pk Max	n I 20.00 de	Bm Offset							1		dBm
Ref Leve Att 1Pk Max	n I 20.00 de	Bm Offset							1		dBm
Ref Leve Att 1Pk Max 0 dBm	n I 20.00 de	Bm Offset									dBm
Ref Leve Att 1Pk Max 0 dBm	n I 20.00 de	Bm Offset									dBm
Ref Leve Att 1Pk Max 0 dBm	n	Bm Offset dB SWT									dBm
Ref Leve Att 1Pk Max 0 dBm	n I 20.00 de	Bm Offset dB SWT									dBm
Ref Leve Att 1Pk Max 0 dBm	n	Bm Offset dB SWT									dBm
Ref Leve Att 1Pk Max 0 dBm dBm 10 dBm 20 dBm	n	Bm Offset dB SWT									dBm
Ref Leve Att 1Pk Max 0 dBm dBm 10 dBm	n	Bm Offset dB SWT									dBm
Ref Leve Att 1Pk Max 0 dBm dBm 10 dBm 20 dBm 30 dBm	n	Bm Offset dB SWT									dBm
Ref Leve Att 1Pk Max 0 dBm 0 dBm dBm .0 dBm	n	Bm Offset dB SWT									dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm dBm c0 dBm 20 dBm 30 dBm i0 dBm	n	Bm Offset dB SWT			3 MHz						dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm dBm 20 dBm 20 dBm 30 dBm 40 dBm	n	Bm Offset dB SWT			3 MHz						dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm dBm 10 dBm 20 dBm 30 dBm 40 dBm	n	Bm Offset dB SWT			3 MHz						dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm 10 dBm 20 dBm 30 dBm 40 dBm	n	Bm Offset dB SWT			3 MHz						dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm	n	Bm Offset dB SWT			3 MHz						dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm dBm dBm 20 dBm 30 dBm 40 dBm	n	Bm Offset dB SWT			3 MHz						dBm) GHz
Ref Leve Att 1Pk Max 0 dBm 0 dBm dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 70 dBm	-D1 -13.00	Bm Offset dB SWT			3 MHz	M					dBm) GHz
Ref Leve Att 1Pk Max 0 dBm dBm dBm dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm	-D1 -13.00	Bm Offset dB SWT			3 MHz	M					dBm J GHz

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band4

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

7.1.1.1.1	Test Channel = L0	СН		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
39.850000	-64.55	-13.00	-51.55	Vertical
133.550000	-65.47	-13.00	-52.47	Vertical
760.429167	-64.34	-13.00	-51.34	Vertical
2584.500000	-56.76	-13.00	-43.76	Vertical
5132.975000	-58.41	-13.00	-45.41	Vertical
6844.425000	-53.05	-13.00	-40.05	Vertical
66.850000	-71.47	-13.00	-58.47	Horizontal
165.050000	-64.08	-13.00	-51.08	Horizontal
1362.500000	-62.94	-13.00	-49.94	Horizontal
5132.975000	-50.52	-13.00	-37.52	Horizontal
6844.425000	-57.10	-13.00	-44.10	Horizontal
8555.550000	-60.11	-13.00	-47.11	Horizontal

NOTE:

1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			TN	VL	-4.43	-0.00258	PASS
		LCH		VN	2.46	0.00143	PASS
				VH	-7.73	-0.00449	PASS
				VL	1.49	0.00086	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-2.84	-0.00164	PASS
				VH	2.63	0.00152	PASS
			TN	VL	-6.56	-0.00376	PASS
		НСН		VN	-5.17	-0.00296	PASS
LTEband4				VH	-0.79	-0.00045	PASS
LI Ebanu4		LCH	TN	VL	-4.20	-0.00244	PASS
				VN	-2.95	-0.00172	PASS
				VH	-5.16	-0.00300	PASS
				VL	4.56	0.00263	PASS
	LTE/TM2 20MHz	MCH	TN	VN	-2.80	-0.00162	PASS
				VH	2.59	0.00149	PASS
				VL	-3.08	-0.00177	PASS
		HCH	TN	VN	-6.61	-0.00379	PASS
				VH	3.44	0.00197	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	-5.40	-0.00314	PASS
				-20	-1.34	-0.00078	PASS
				-10	2.38	0.00138	PASS
				0	5.72	0.00333	PASS
		LCH	VN	10	1.65	0.00096	PASS
				20	4.11	0.00239	PASS
				30	-3.31	-0.00192	PASS
				40	-0.79	-0.00046	PASS
				50	2.52	0.00147	PASS
	LTE/TM1 20MHz		VN	-30	-4.80	-0.00277	PASS
				-20	-5.95	-0.00343	PASS
				-10	-7.49	-0.00432	PASS
				0	-5.62	-0.00324	PASS
LTEband4		MCH		10	-4.04	-0.00233	PASS
				20	-9.94	-0.00574	PASS
				30	-5.66	-0.00327	PASS
				40	-4.62	-0.00267	PASS
				50	-6.92	-0.00399	PASS
				-30	3.54	0.00203	PASS
				-20	-4.49	-0.00257	PASS
				-10	1.53	0.00088	PASS
				0	-3.83	-0.00219	PASS
		HCH	VN	10	2.60	0.00149	PASS
				20	-1.57	-0.00090	PASS
				30	-7.66	-0.00439	PASS
				40	-5.43	-0.00311	PASS
				50	-3.24	-0.00186	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-1.50	-0.00087	PASS
				-20	-2.45	-0.00142	PASS
				-10	3.38	0.00197	PASS
				0	2.64	0.00153	PASS
		LCH	VN	10	1.60	0.00093	PASS
				20	-0.23	-0.00013	PASS
				30	-3.41	-0.00198	PASS
				40	5.34	0.00310	PASS
	LTE/TM2 20MHz			50	4.79	0.00278	PASS
				-30	-3.36	-0.00194	PASS
			VN	-20	-5.38	-0.00311	PASS
				-10	-7.29	-0.00421	PASS
				0	-4.32	-0.00249	PASS
LTEband4		MCH		10	-0.34	-0.00020	PASS
				20	1.74	0.00100	PASS
				30	-5.64	-0.00326	PASS
				40	-2.62	-0.00151	PASS
				50	-3.91	-0.00226	PASS
				-30	4.34	0.00249	PASS
				-20	-2.55	-0.00146	PASS
				-10	1.59	0.00091	PASS
				0	-3.73	-0.00214	PASS
		HCH	VN	10	4.88	0.00280	PASS
				20	-1.47	-0.00084	PASS
				30	-3.59	-0.00206	PASS
				40	-4.33	-0.00248	PASS
				50	-7.20	-0.00413	PASS

The End

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