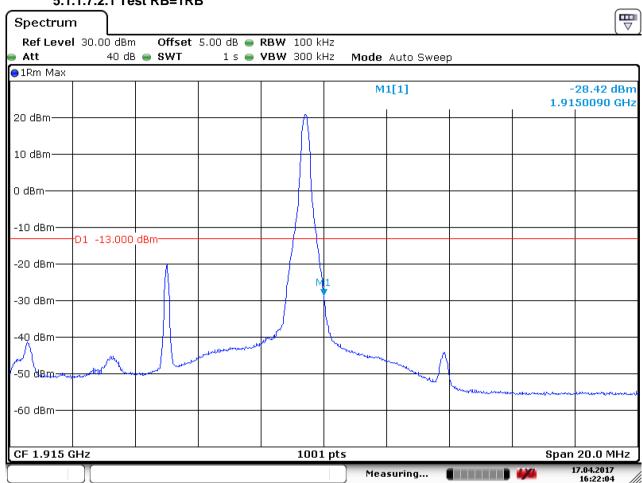


Report No.: SZEM170300261304

Page: 97 of 177

### **5.1.1.7.2** Test Channel = HCH

#### 5.1.1.7.2.1 Test RB=1RB



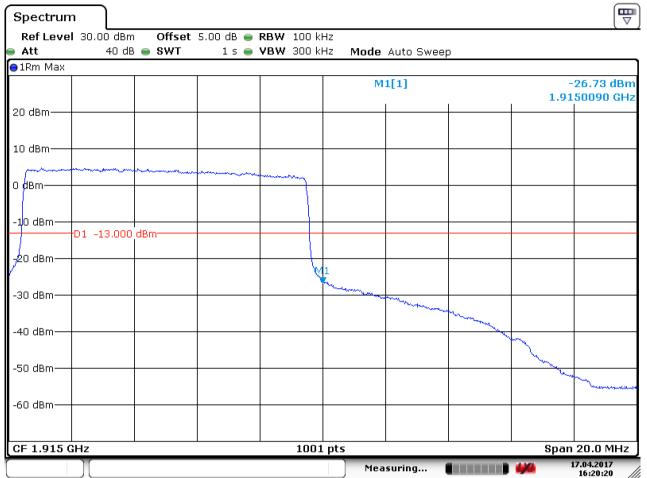
Date: 17.APR.2017 16:22:04



Report No.: SZEM170300261304

Page: 98 of 177

#### 5.1.1.7.2.2 Test RB=50RB



Date: 17.APR.2017 16:20:20

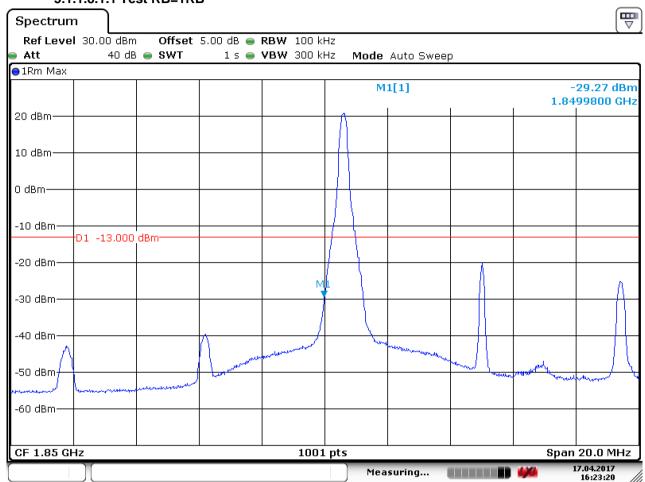


Report No.: SZEM170300261304

Page: 99 of 177

### 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: 17.APR.2017 16:23:20



Report No.: SZEM170300261304

Page: 100 of 177

#### 5.1.1.8.1.2 Test RB=50RB



Date: 17.APR.2017 16:23:54

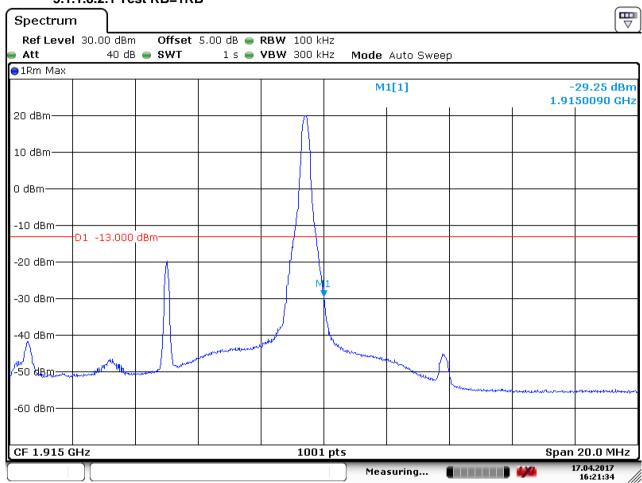


Report No.: SZEM170300261304

Page: 101 of 177

#### 5.1.1.8.2 Test Channel = HCH

#### 5.1.1.8.2.1 Test RB=1RB



Date: 17.APR.2017 16:21:34



Report No.: SZEM170300261304

Page: 102 of 177

#### 5.1.1.8.2.2 Test RB=50RB



Date: 17.APR.2017 16:21:01

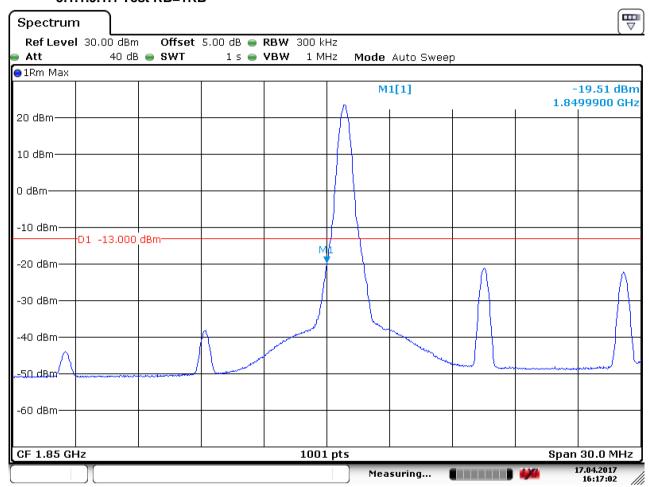


Report No.: SZEM170300261304

Page: 103 of 177

### 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



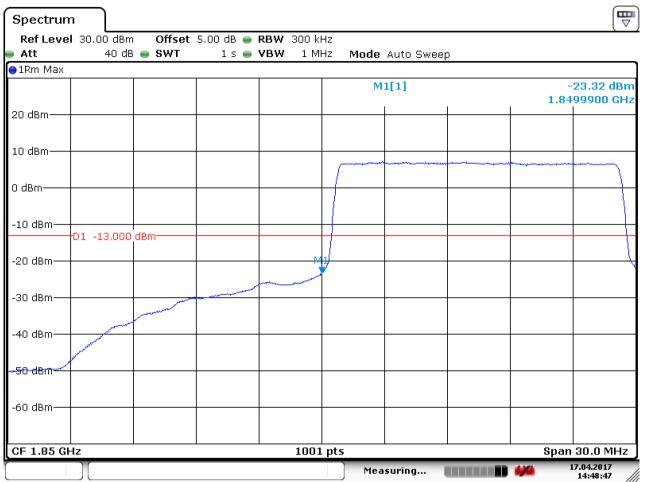
Date: 17.APR.2017 16:17:02



Report No.: SZEM170300261304

Page: 104 of 177

#### 5.1.1.9.1.2 Test RB=75RB



Date: 17.APR.2017 14:48:47

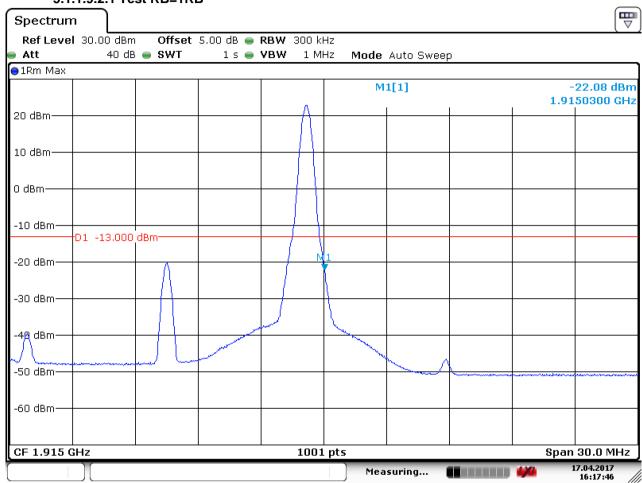


Report No.: SZEM170300261304

Page: 105 of 177

### 5.1.1.9.2 Test Channel = HCH

#### 5.1.1.9.2.1 Test RB=1RB



Date: 17.APR.2017 16:17:46



Report No.: SZEM170300261304

Page: 106 of 177

#### 5.1.1.9.2.2 Test RB=75RB



Date: 17.APR.2017 16:19:18

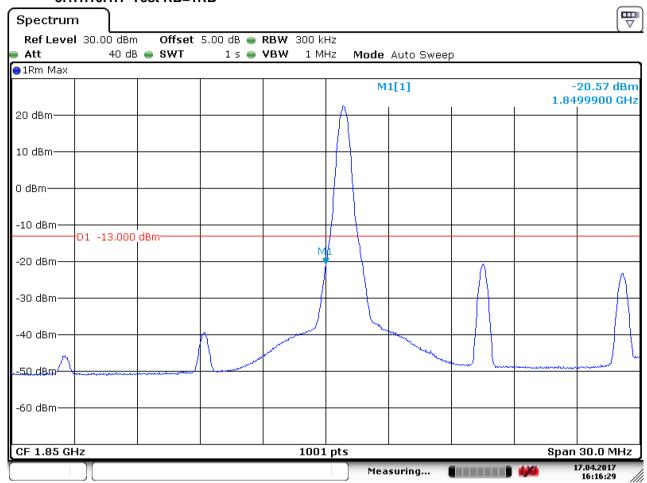


Report No.: SZEM170300261304

Page: 107 of 177

### 5.1.1.10 Test Mode = LTE/TM2 15MHz 5.1.1.10.1 Test Channel = LCH

#### 5.1.1.10.1.1 Test RB=1RB



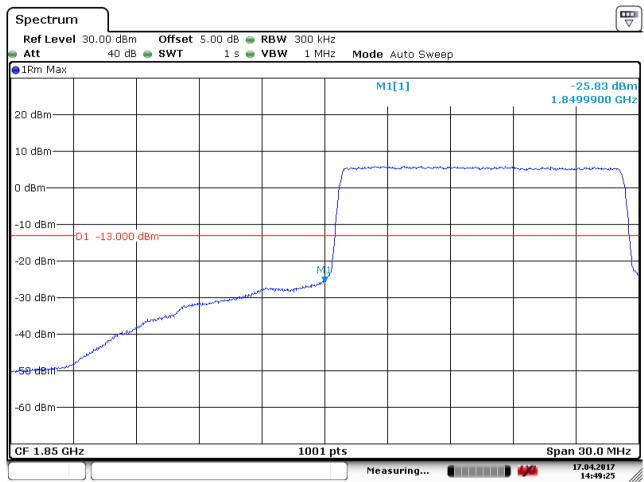
Date: 17.APR.2017 16:16:29



Report No.: SZEM170300261304

Page: 108 of 177

#### 5.1.1.10.1.2 Test RB=75RB



Date: 17.APR.2017 14:49:26

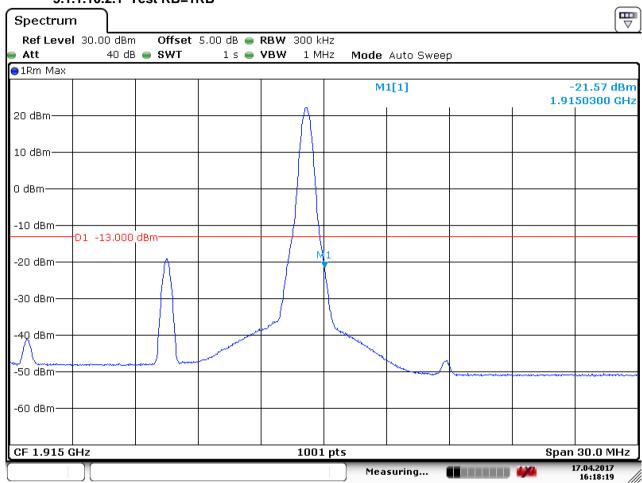


Report No.: SZEM170300261304

Page: 109 of 177

#### 5.1.1.10.2 Test Channel = HCH

#### 5.1.1.10.2.1 Test RB=1RB



Date: 17.APR.2017 16:18:19



Report No.: SZEM170300261304

Page: 110 of 177

#### 5.1.1.10.2.2 Test RB=75RB



Date: 17.APR.2017 16:18:45

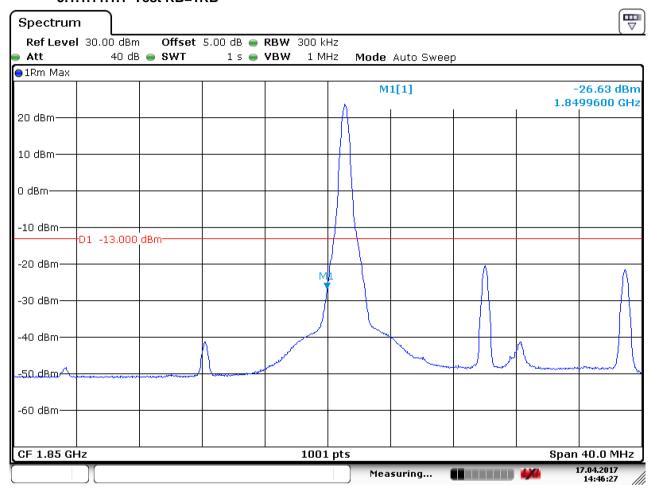


Report No.: SZEM170300261304

Page: 111 of 177

### 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



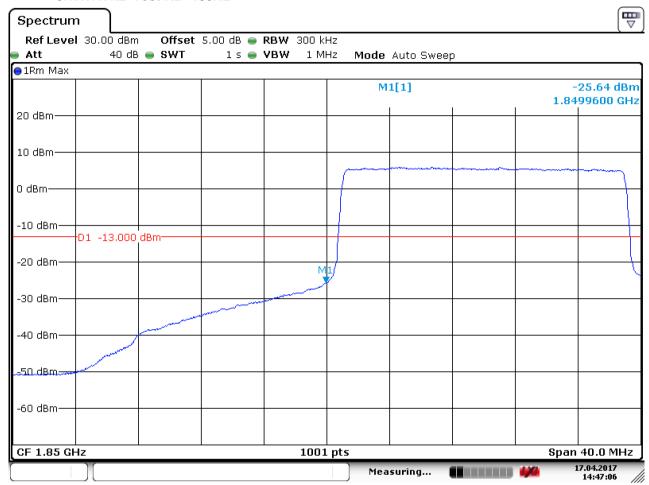
Date: 17.APR.2017 14:46:27



Report No.: SZEM170300261304

Page: 112 of 177

#### 5.1.1.11.1.2 Test RB=100RB



Date: 17.APR.2017 14:47:07

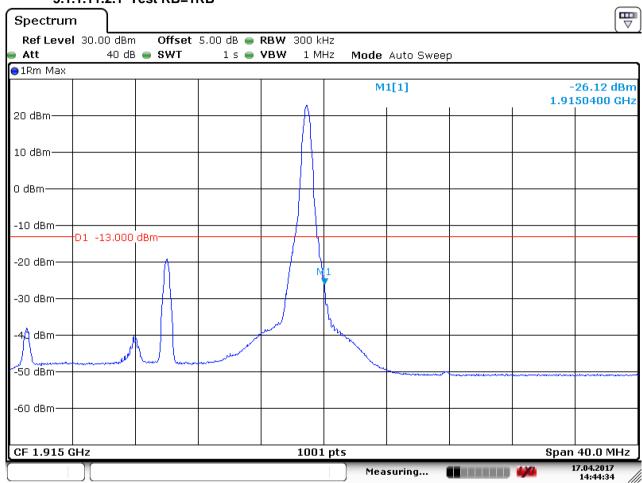


Report No.: SZEM170300261304

Page: 113 of 177

#### 5.1.1.11.2 Test Channel = HCH

#### 5.1.1.11.2.1 Test RB=1RB



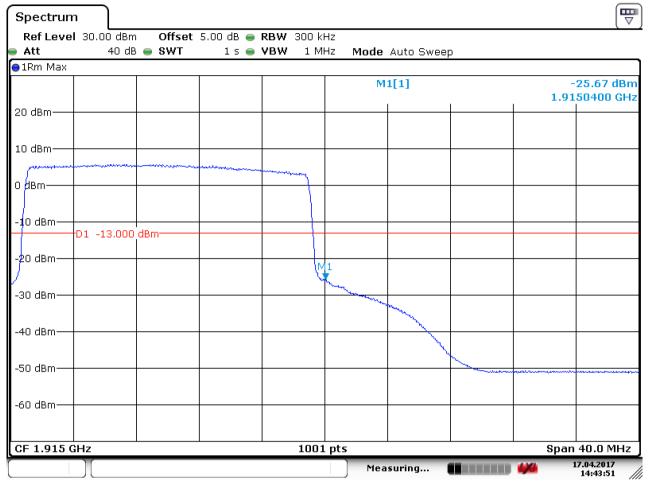
Date: 17.APR.2017 14:44:35



Report No.: SZEM170300261304

Page: 114 of 177

#### 5.1.1.11.2.2 Test RB=100RB



Date: 17.APR.2017 14:43:51

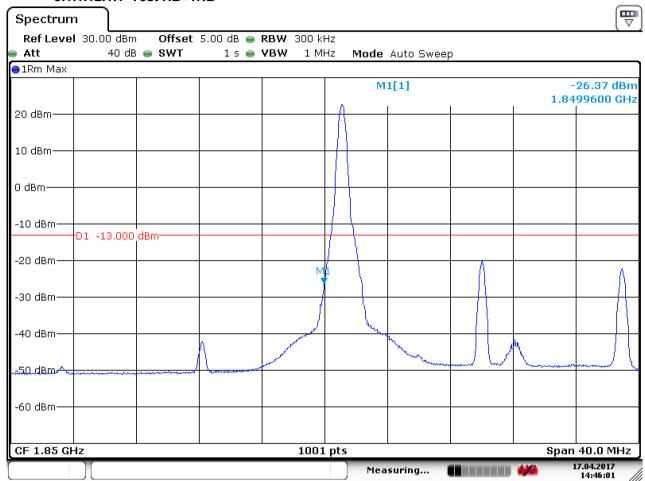


Report No.: SZEM170300261304

Page: 115 of 177

### 5.1.1.12 Test Mode = LTE/TM2 20MHz 5.1.1.12.1 Test Channel = LCH

#### 5.1.1.12.1.1 Test RB=1RB



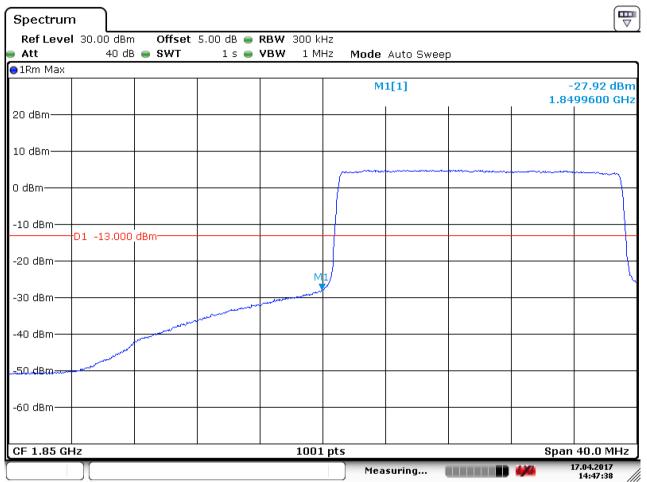
Date: 17.APR.2017 14:46:01



Report No.: SZEM170300261304

Page: 116 of 177

#### 5.1.1.12.1.2 Test RB=100RB



Date: 17.APR.2017 14:47:39

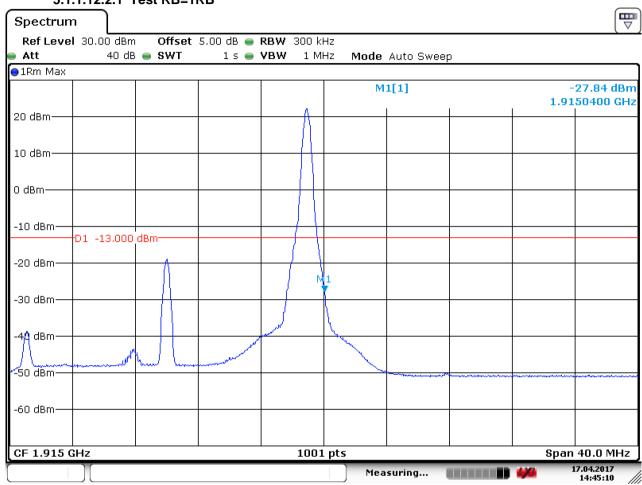


Report No.: SZEM170300261304

Page: 117 of 177

#### 5.1.1.12.2 Test Channel = HCH

#### 5.1.1.12.2.1 Test RB=1RB



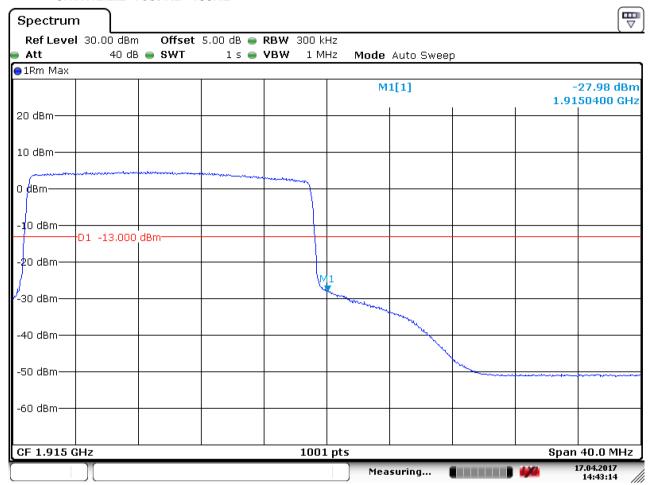
Date: 17.APR.2017 14:45:10



Report No.: SZEM170300261304

Page: 118 of 177

#### 5.1.1.12.2.2 Test RB=100RB



Date: 17.APR.2017 14:43:14



Report No.: SZEM170300261304

Page: 119 of 177

### 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 = 4 \* (Span / RBW) with k = 4 \* (Span / RBW)

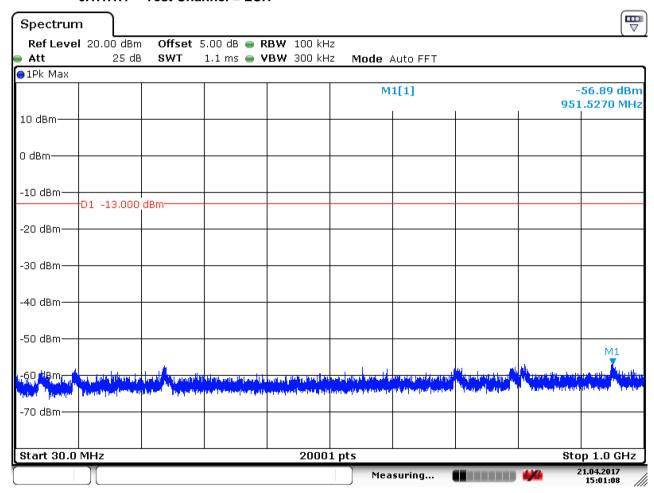
Part I - Test Plots

#### 6.1 For LTE

#### 6.1.1 Test Band = LTE band25

#### 6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

#### 6.1.1.1.1 Test Channel = LCH

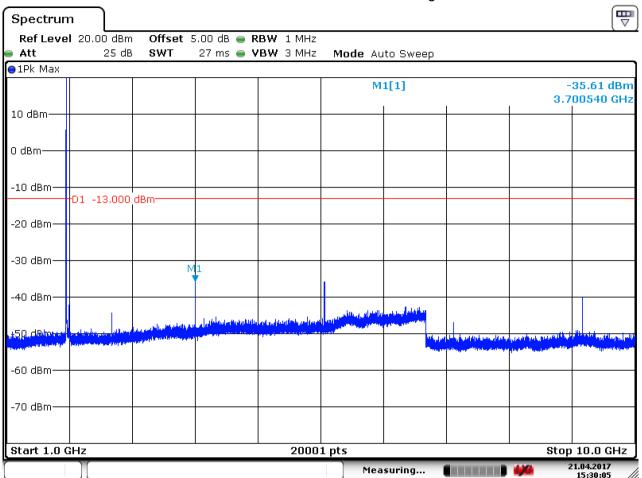


Date: 21.APR.2017 15:01:09



Report No.: SZEM170300261304

Page: 120 of 177

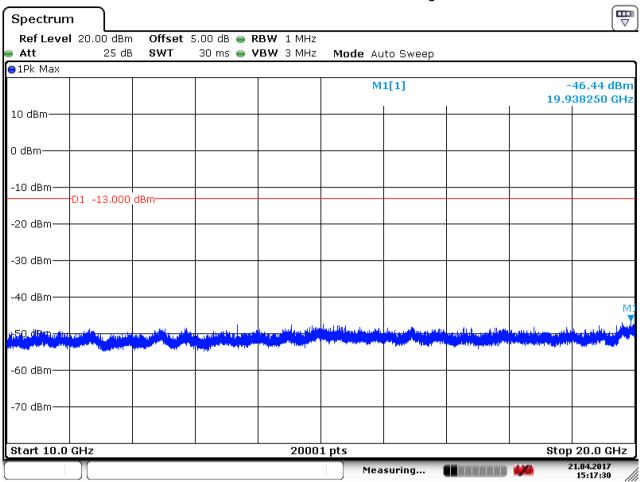


Date: 21.APR.2017 15:30:05



Report No.: SZEM170300261304

Page: 121 of 177



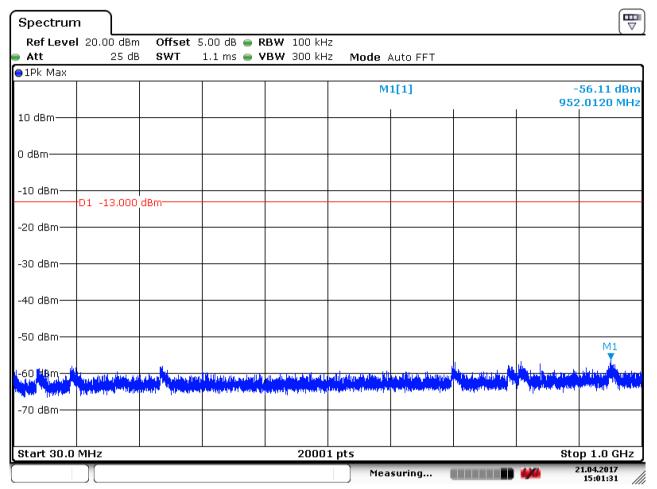
Date: 21.APR.2017 15:17:31



Report No.: SZEM170300261304

Page: 122 of 177

#### 6.1.1.1.2 Test Channel = MCH

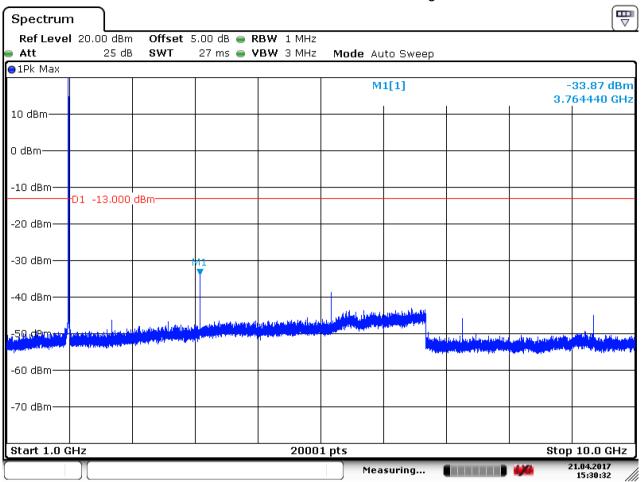


Date: 21.APR.2017 15:01:31



Report No.: SZEM170300261304

Page: 123 of 177

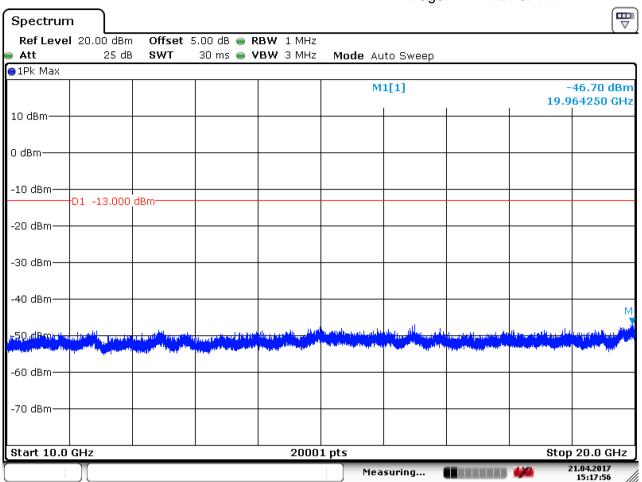


Date: 21.APR.2017 15:30:32



Report No.: SZEM170300261304

Page: 124 of 177



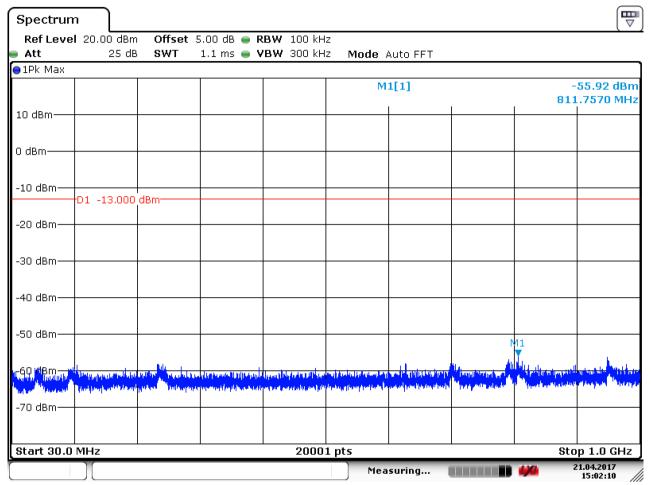
Date: 21.APR.2017 15:17:57



Report No.: SZEM170300261304

Page: 125 of 177

### 6.1.1.1.3 Test Channel = HCH

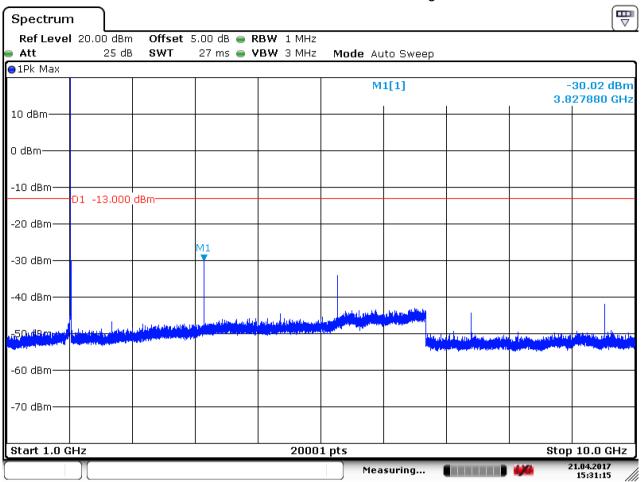


Date: 21.APR.2017 15:02:11



Report No.: SZEM170300261304

Page: 126 of 177

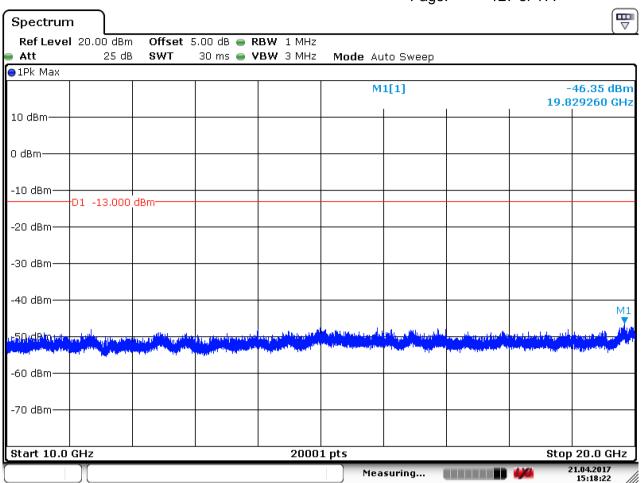


Date: 21.APR.2017 15:31:15



Report No.: SZEM170300261304

Page: 127 of 177



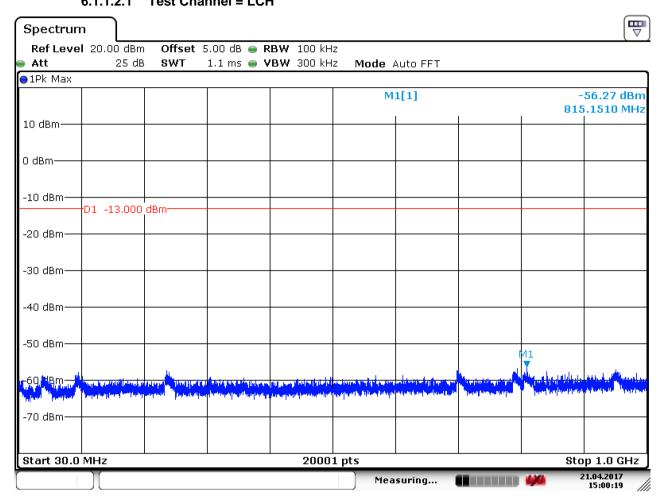
Date: 21.APR.2017 15:18:22



Report No.: SZEM170300261304

Page: 128 of 177

### 6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0 6.1.1.2.1 Test Channel = LCH

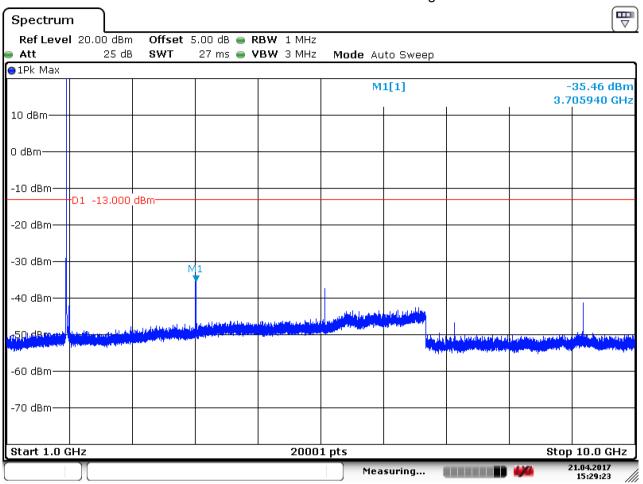


Date: 21.APR.2017 15:00:19



Report No.: SZEM170300261304

Page: 129 of 177

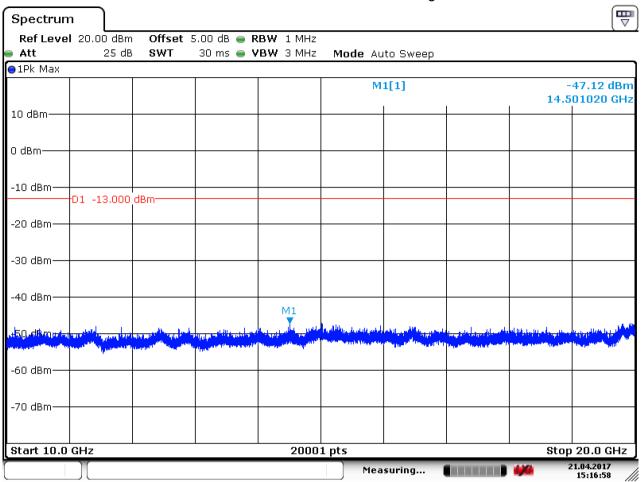


Date: 21.APR.2017 15:29:23



Report No.: SZEM170300261304

Page: 130 of 177



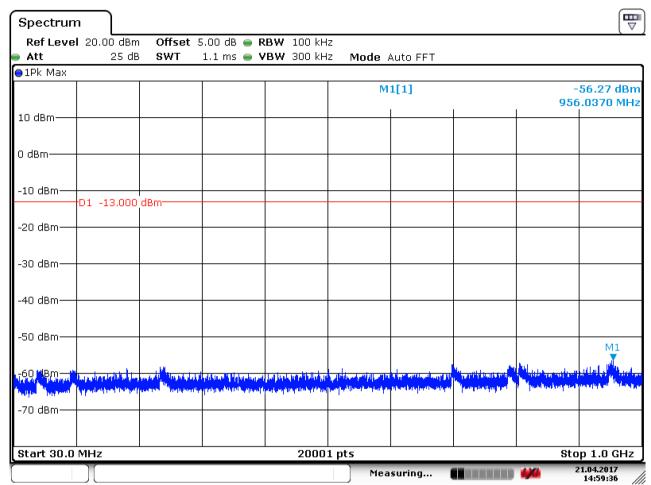
Date: 21.APR.2017 15:16:58



Report No.: SZEM170300261304

Page: 131 of 177

#### 6.1.1.2.2 Test Channel = MCH

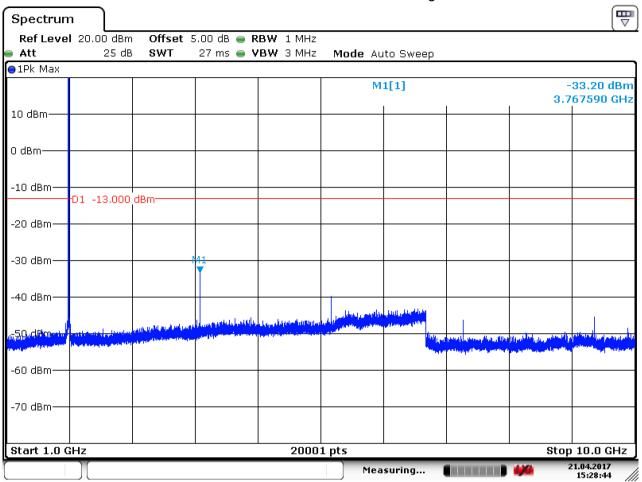


Date: 21.APR.2017 14:59:36



Report No.: SZEM170300261304

Page: 132 of 177

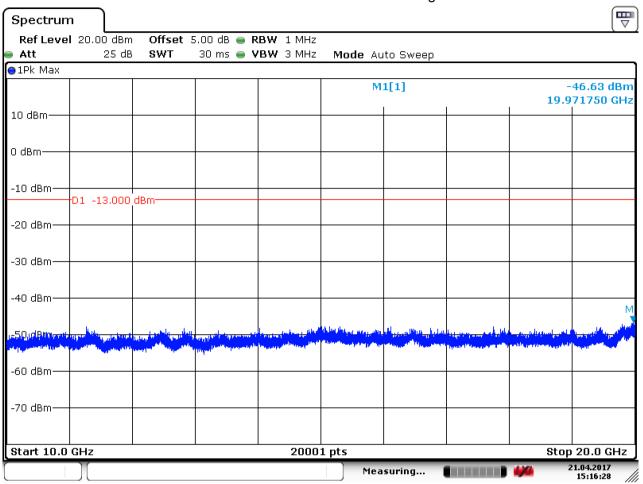


Date: 21.APR.2017 15:28:44



Report No.: SZEM170300261304

Page: 133 of 177



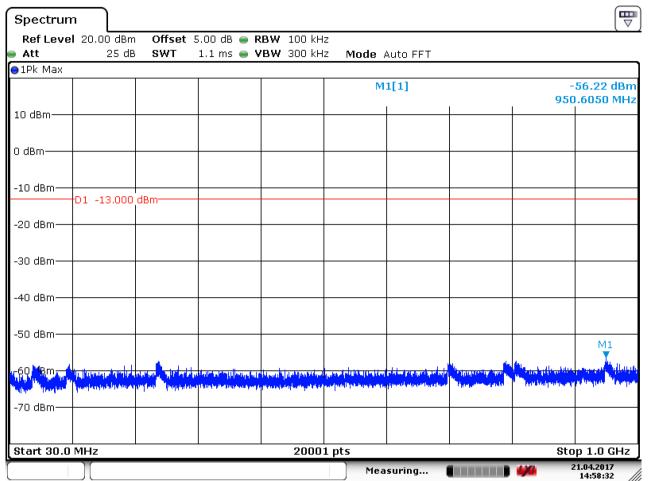
Date: 21.APR.2017 15:16:29



Report No.: SZEM170300261304

Page: 134 of 177

#### 6.1.1.2.3 Test Channel = HCH

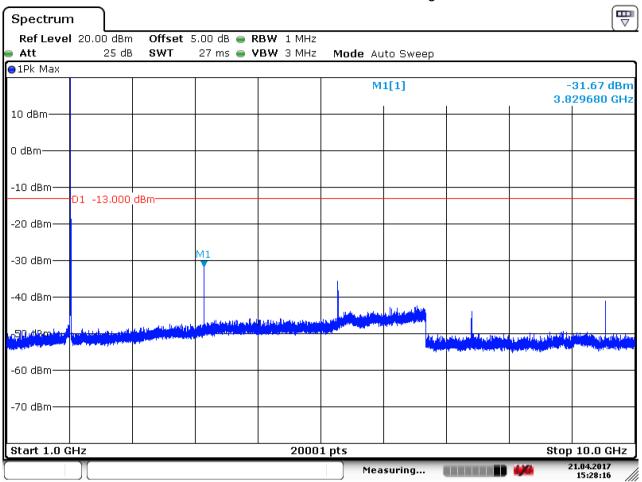


Date: 21.APR.2017 14:58:33



Report No.: SZEM170300261304

Page: 135 of 177

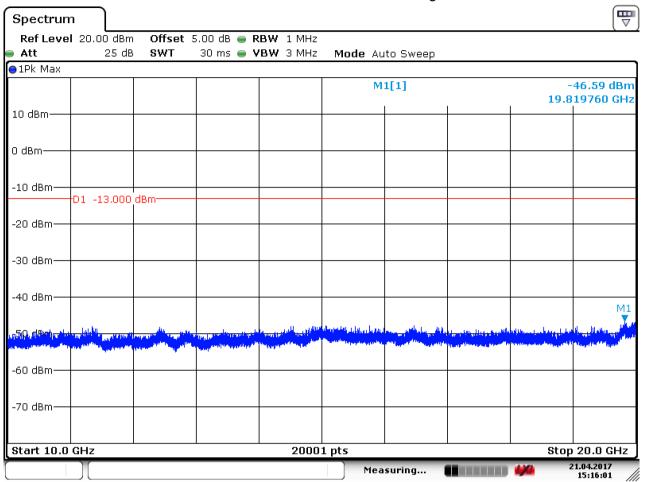


Date: 21.APR.2017 15:28:16



Report No.: SZEM170300261304

Page: 136 of 177



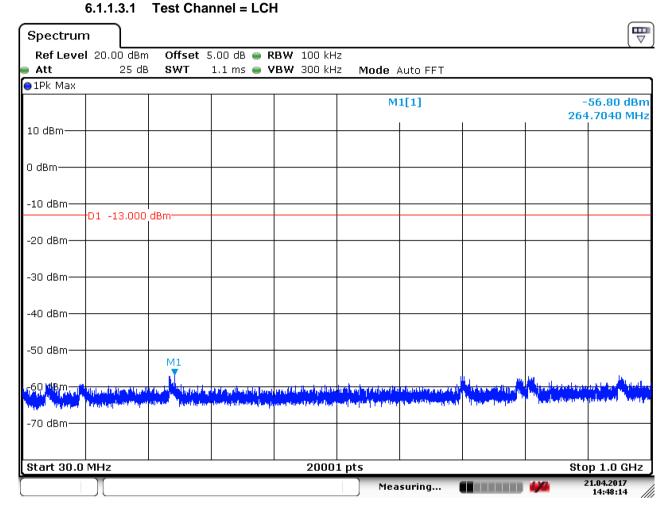
Date: 21.APR.2017 15:16:01



Report No.: SZEM170300261304

Page: 137 of 177

#### 6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

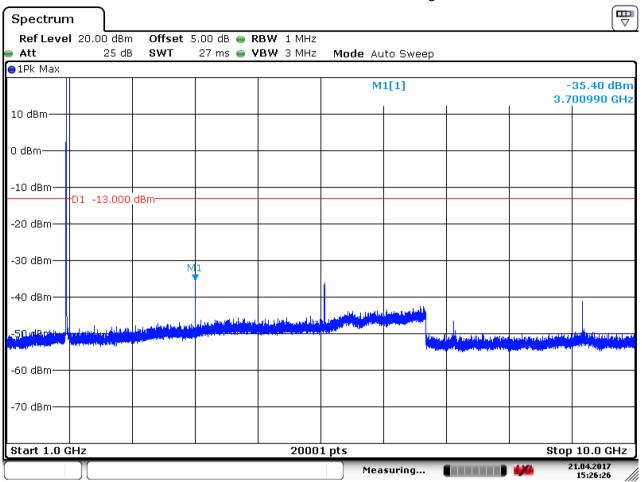


Date: 21.APR.2017 14:48:14



Report No.: SZEM170300261304

Page: 138 of 177

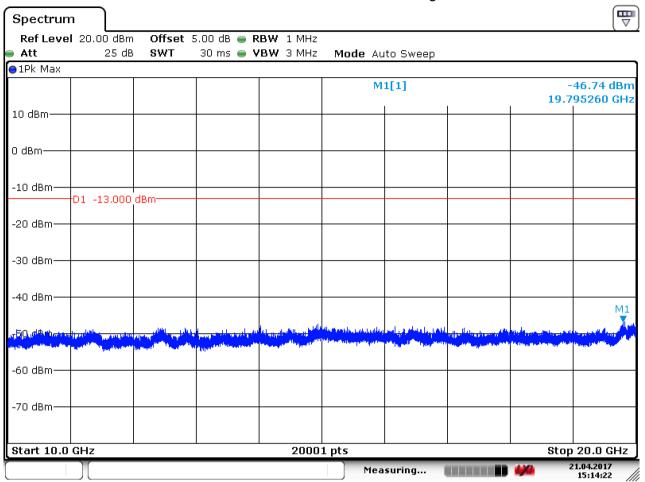


Date: 21.APR.2017 15:26:27



Report No.: SZEM170300261304

Page: 139 of 177



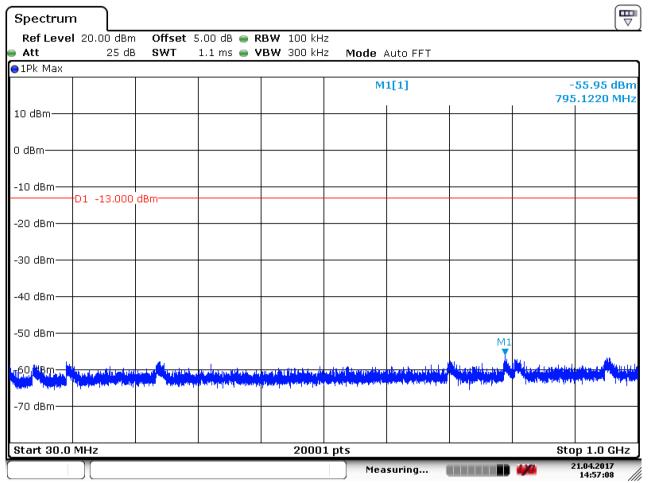
Date: 21.APR.2017 15:14:23



Report No.: SZEM170300261304

Page: 140 of 177

#### 6.1.1.3.2 Test Channel = MCH

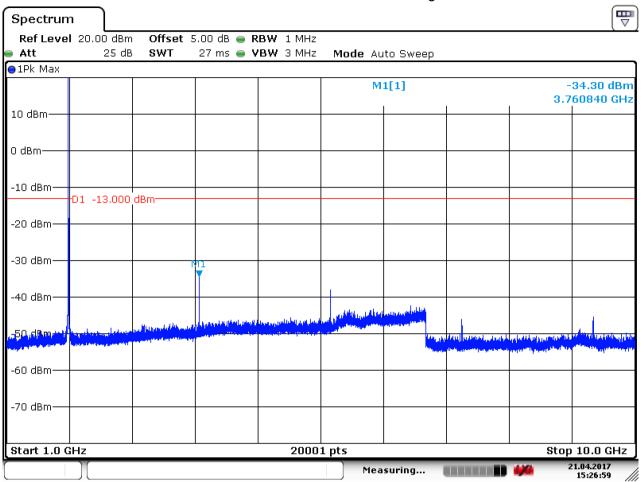


Date: 21.APR.2017 14:57:09



Report No.: SZEM170300261304

Page: 141 of 177

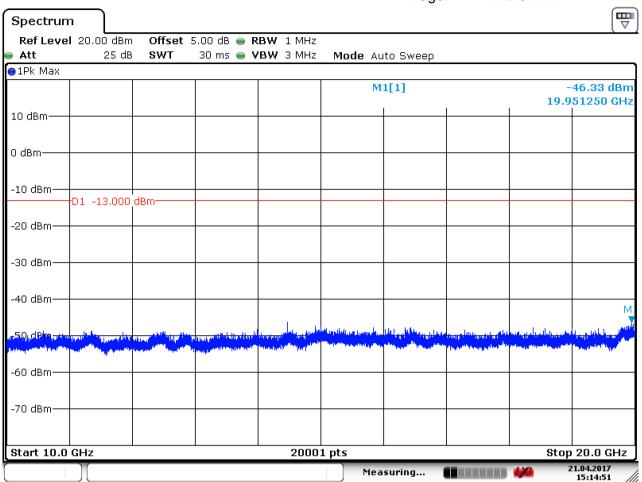


Date: 21.APR.2017 15:27:00



Report No.: SZEM170300261304

Page: 142 of 177



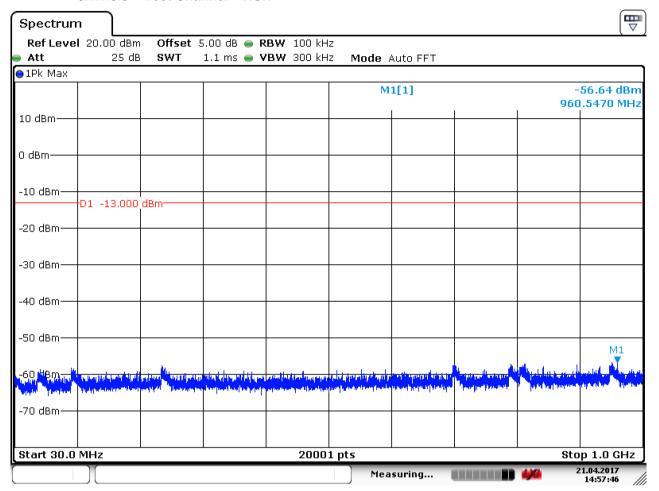
Date: 21.APR.2017 15:14:52



Report No.: SZEM170300261304

Page: 143 of 177

#### 6.1.1.3.3 Test Channel = HCH

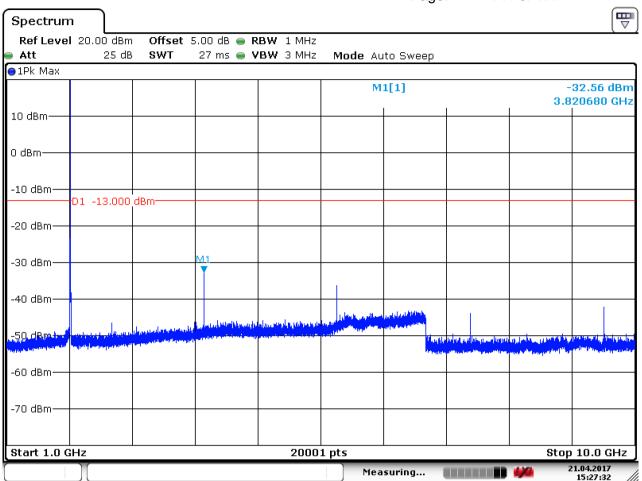


Date: 21.APR.2017 14:57:46



Report No.: SZEM170300261304

Page: 144 of 177

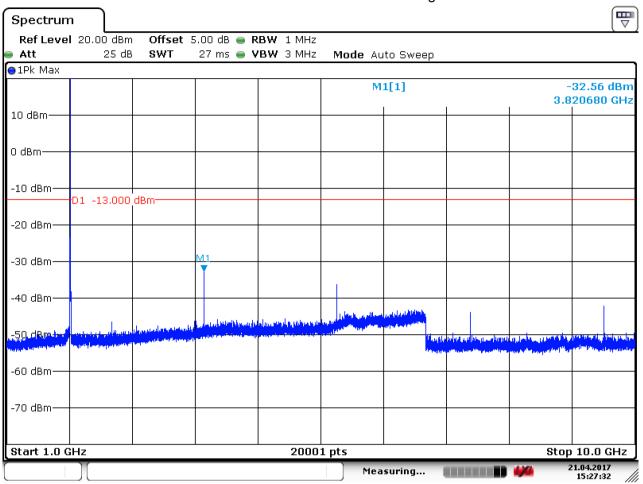


Date: 21.APR.2017 15:27:33



Report No.: SZEM170300261304

Page: 145 of 177

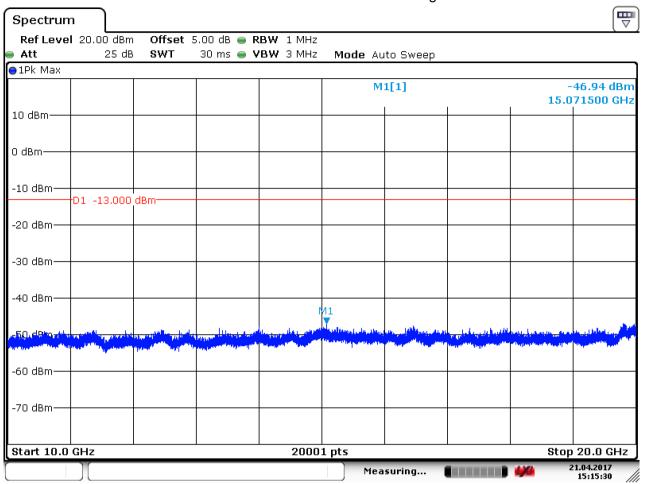


Date: 21.APR.2017 15:27:33



Report No.: SZEM170300261304

Page: 146 of 177



Date: 21.APR.2017 15:15:31

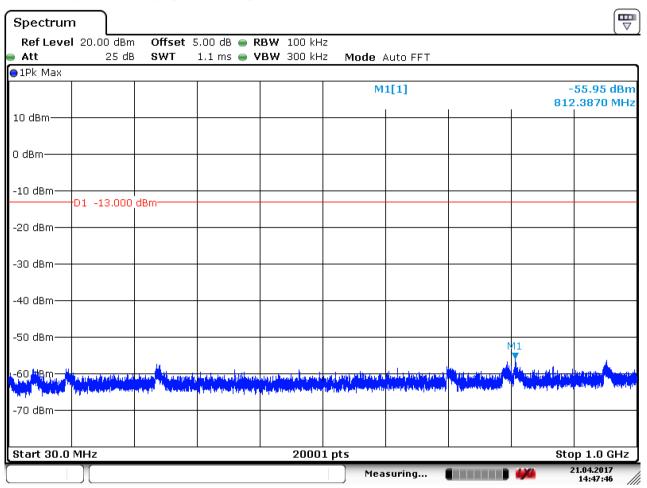


Report No.: SZEM170300261304

Page: 147 of 177

#### 6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH

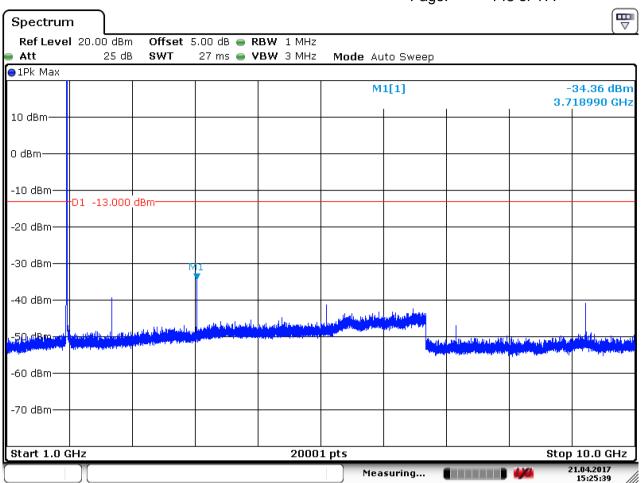


Date: 21.APR.2017 14:47:47



Report No.: SZEM170300261304

Page: 148 of 177

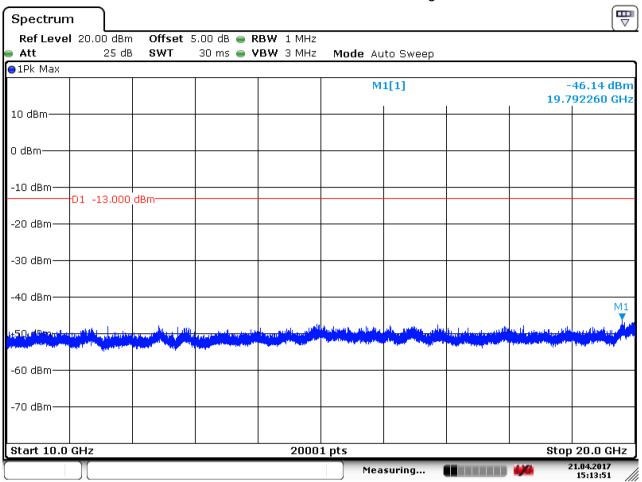


Date: 21.APR.2017 15:25:39



Report No.: SZEM170300261304

Page: 149 of 177



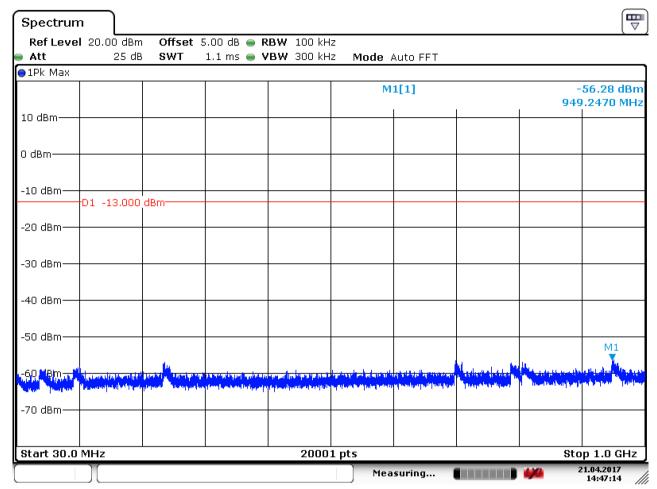
Date: 21.APR.2017 15:13:51



Report No.: SZEM170300261304

Page: 150 of 177

#### 6.1.1.4.2 Test Channel = MCH

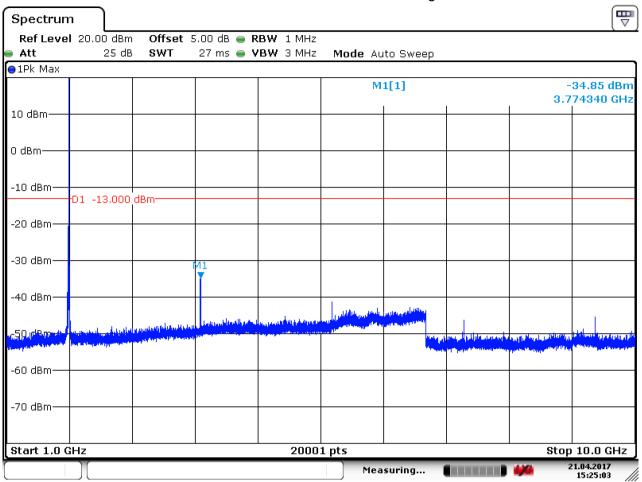


Date: 21.APR.2017 14:47:14



Report No.: SZEM170300261304

Page: 151 of 177

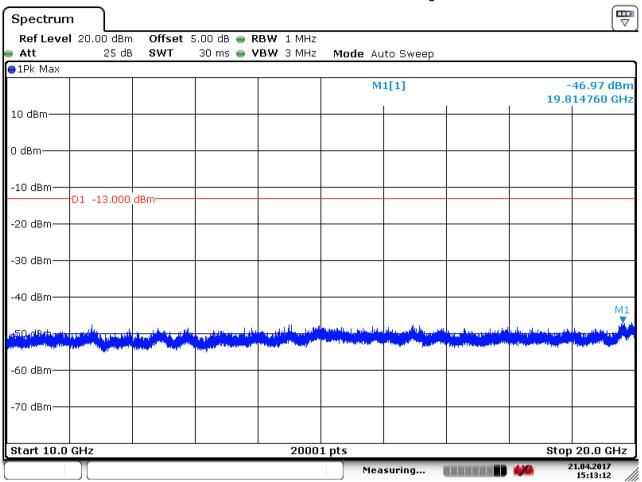


Date: 21.APR.2017 15:25:04



Report No.: SZEM170300261304

Page: 152 of 177



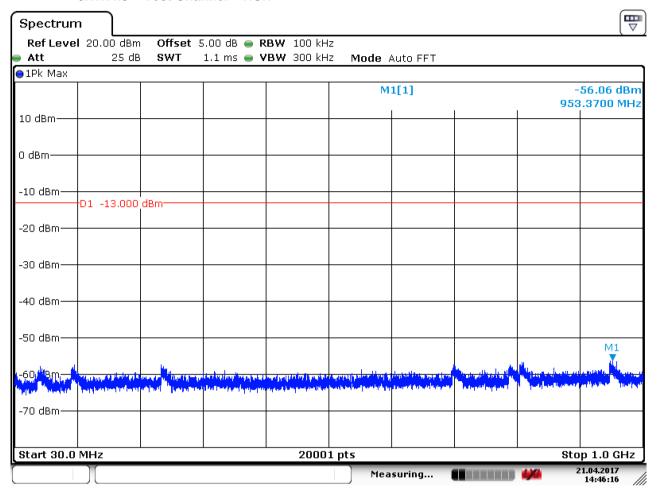
Date: 21.APR.2017 15:13:13



Report No.: SZEM170300261304

Page: 153 of 177

#### 6.1.1.4.3 Test Channel = HCH

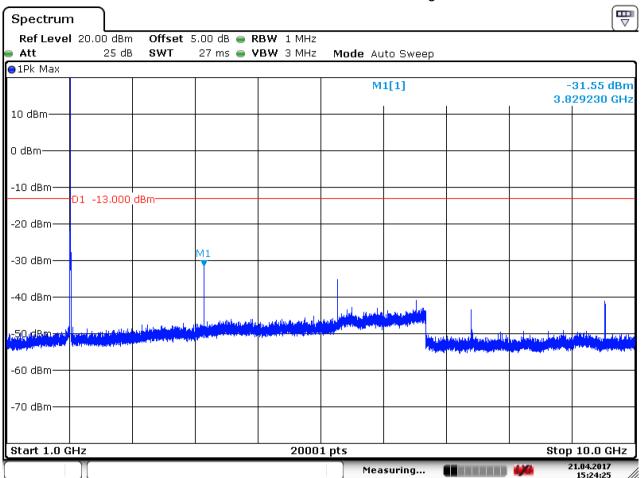


Date: 21.APR.2017 14:46:17



Report No.: SZEM170300261304

Page: 154 of 177

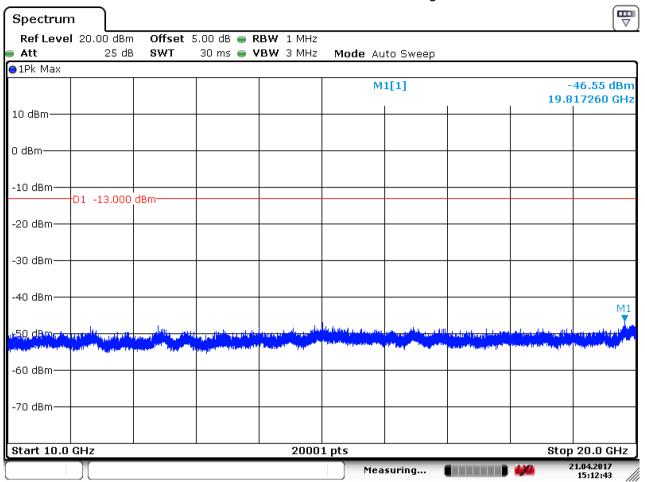


Date: 21.APR.2017 15:24:25



Report No.: SZEM170300261304

Page: 155 of 177



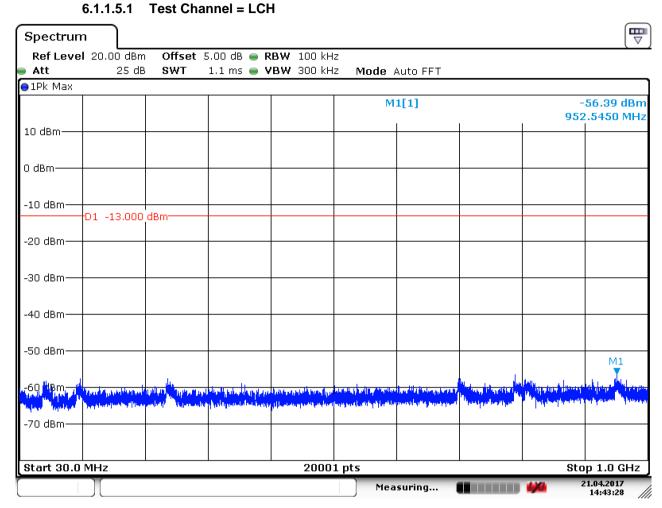
Date: 21.APR.2017 15:12:44



Report No.: SZEM170300261304

Page: 156 of 177

#### 6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

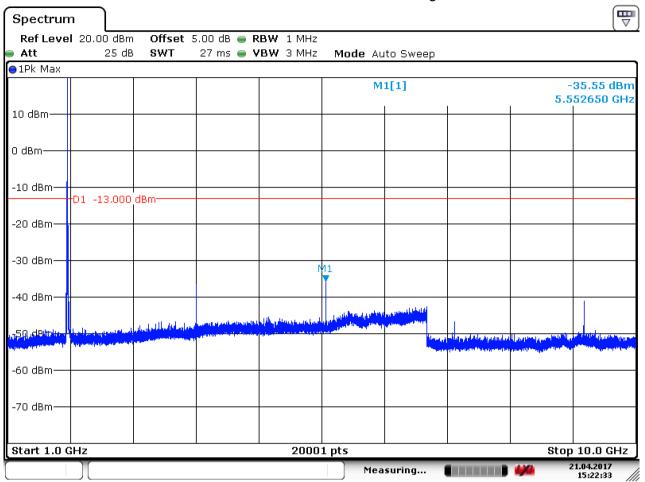


Date: 21.APR.2017 14:43:28



Report No.: SZEM170300261304

Page: 157 of 177

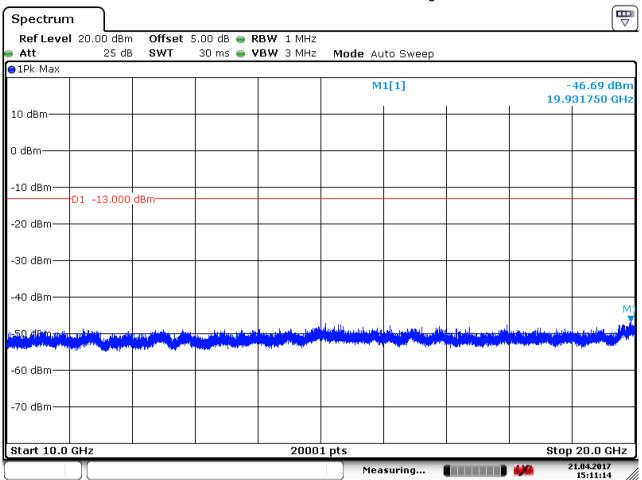


Date: 21.APR.2017 15:22:34



Report No.: SZEM170300261304

Page: 158 of 177



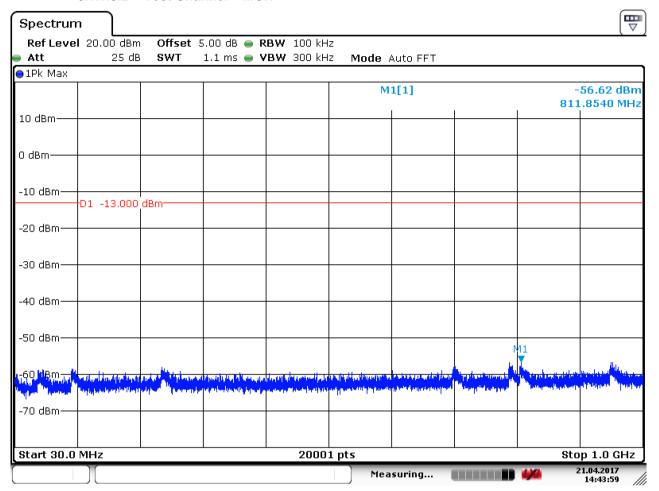
Date: 21.APR.2017 15:11:14



Report No.: SZEM170300261304

Page: 159 of 177

#### 6.1.1.5.2 Test Channel = MCH

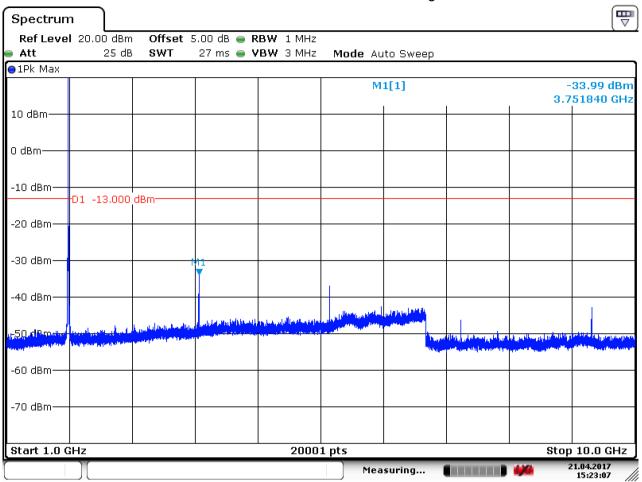


Date: 21.APR.2017 14:44:00



Report No.: SZEM170300261304

Page: 160 of 177

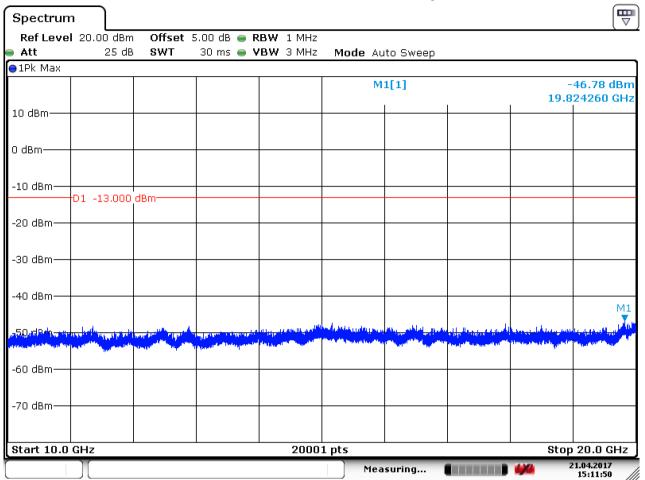


Date: 21.APR.2017 15:23:07



Report No.: SZEM170300261304

Page: 161 of 177



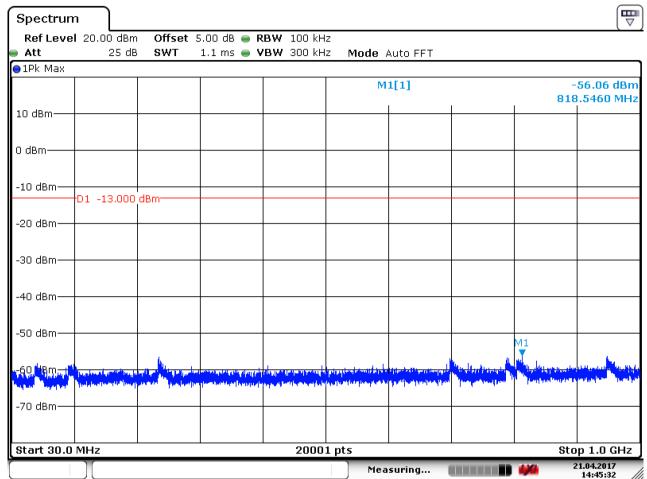
Date: 21.APR.2017 15:11:50



Report No.: SZEM170300261304

Page: 162 of 177

#### 6.1.1.5.3 Test Channel = HCH

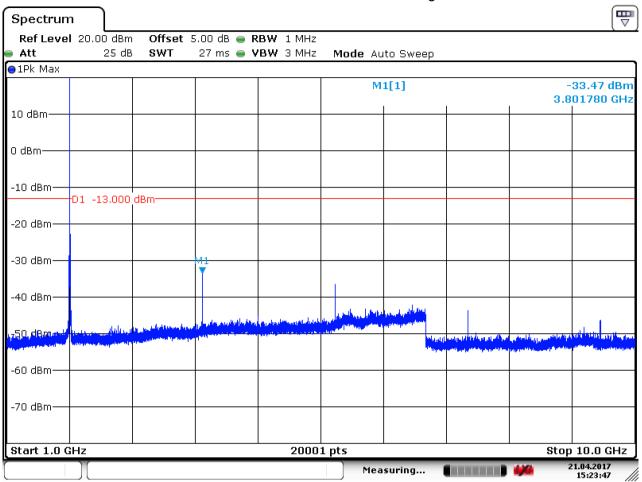


Date: 21.APR.2017 14:45:32



Report No.: SZEM170300261304

Page: 163 of 177

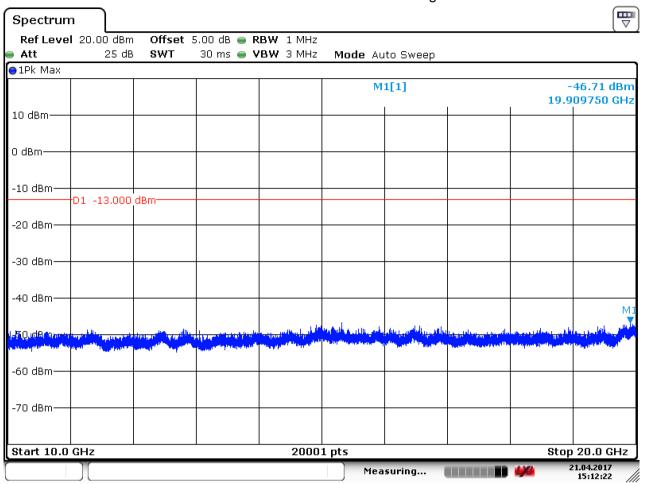


Date: 21.APR.2017 15:23:47



Report No.: SZEM170300261304

Page: 164 of 177



Date: 21.APR.2017 15:12:22

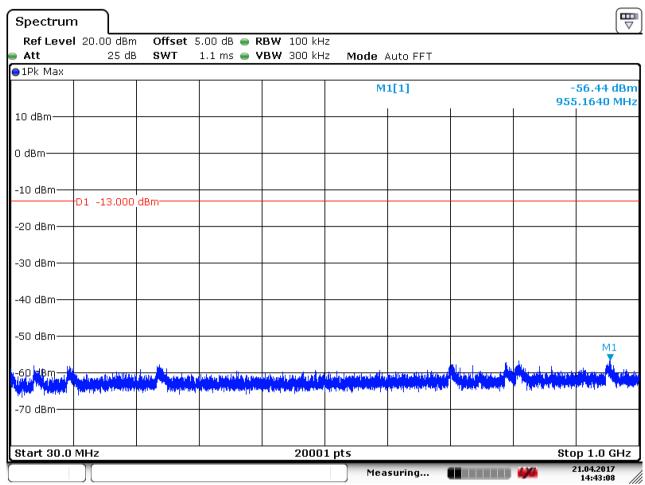


Report No.: SZEM170300261304

Page: 165 of 177

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

#### 6.1.1.6.1 Test Channel = LCH

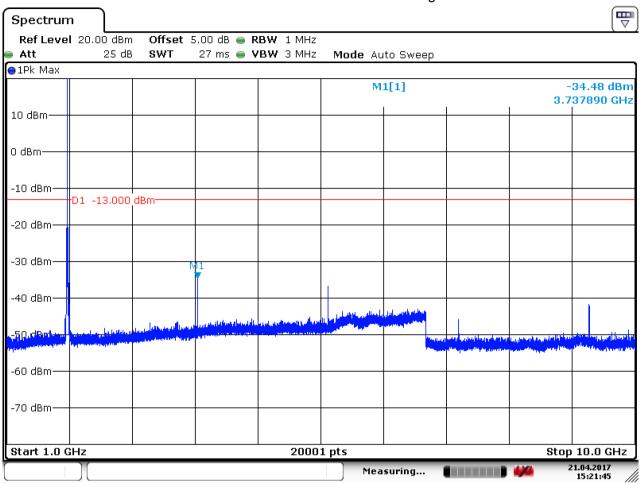


Date: 21.APR.2017 14:43:08



Report No.: SZEM170300261304

Page: 166 of 177

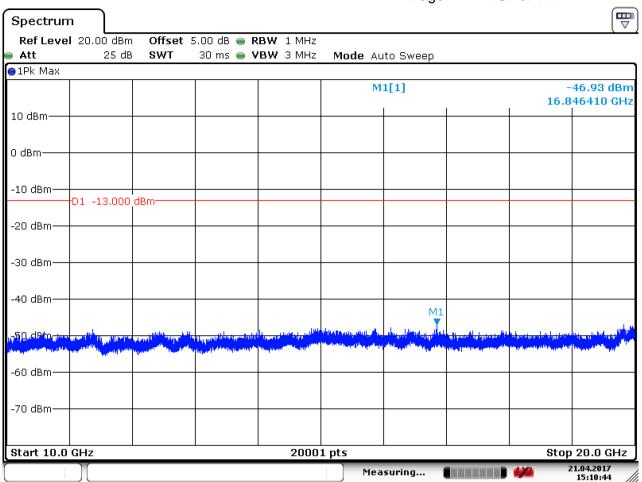


Date: 21.APR.2017 15:21:45



Report No.: SZEM170300261304

Page: 167 of 177



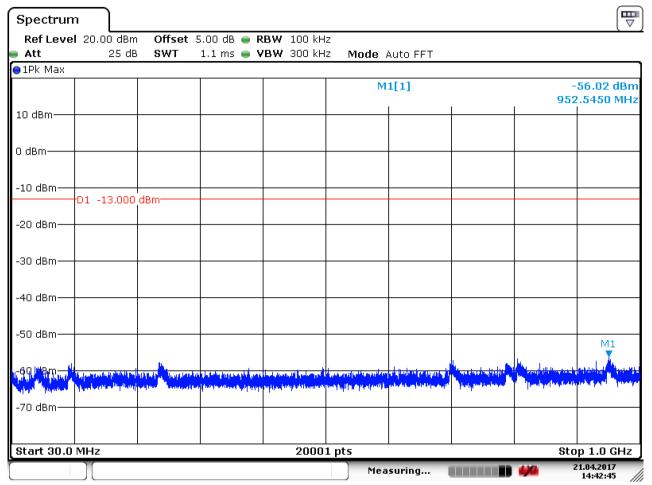
Date: 21.APR.2017 15:10:45



Report No.: SZEM170300261304

Page: 168 of 177

#### 6.1.1.6.2 Test Channel = MCH

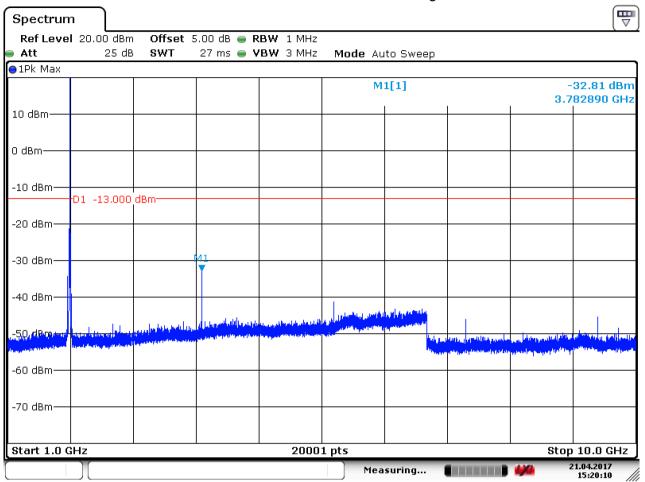


Date: 21.APR.2017 14:42:45



Report No.: SZEM170300261304

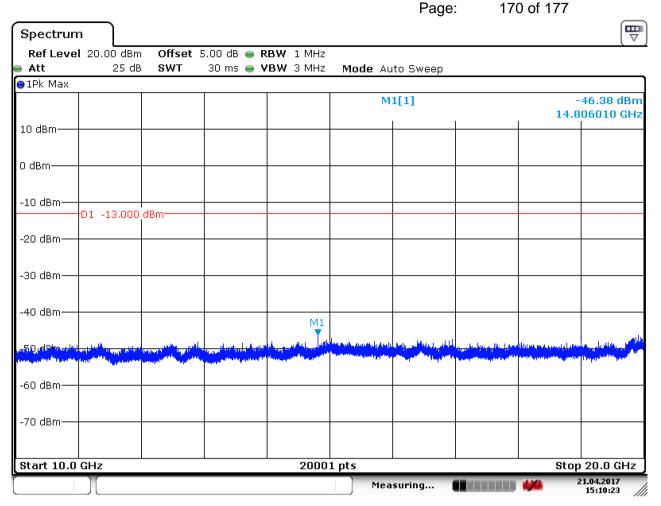
Page: 169 of 177



Date: 21.APR.2017 15:20:11



Report No.: SZEM170300261304



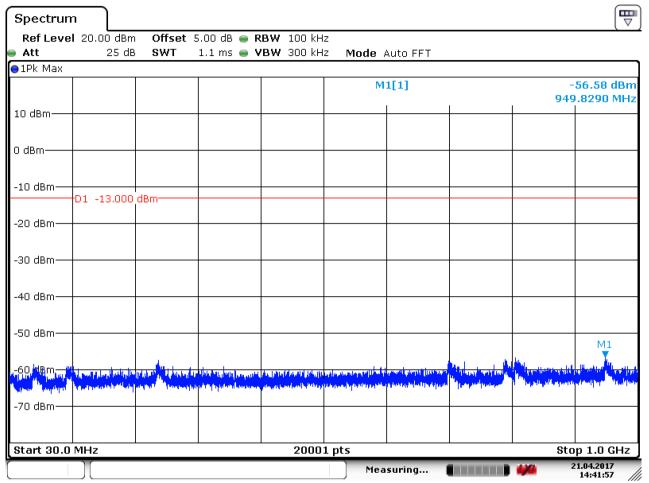
Date: 21.APR.2017 15:10:24



Report No.: SZEM170300261304

Page: 171 of 177

#### 6.1.1.6.3 Test Channel = HCH

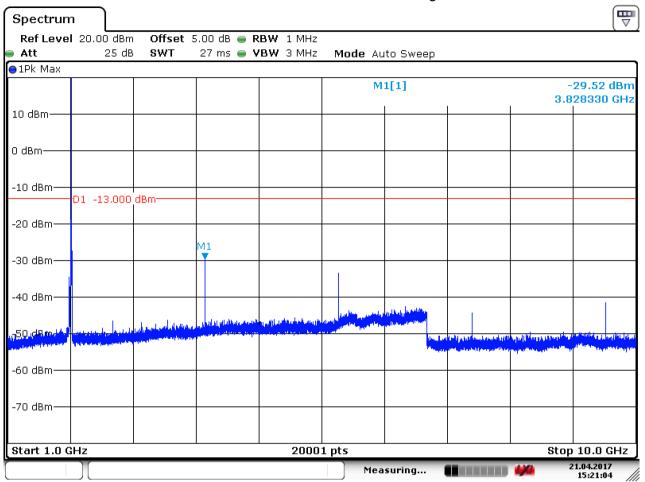


Date: 21.APR.2017 14:41:57



Report No.: SZEM170300261304

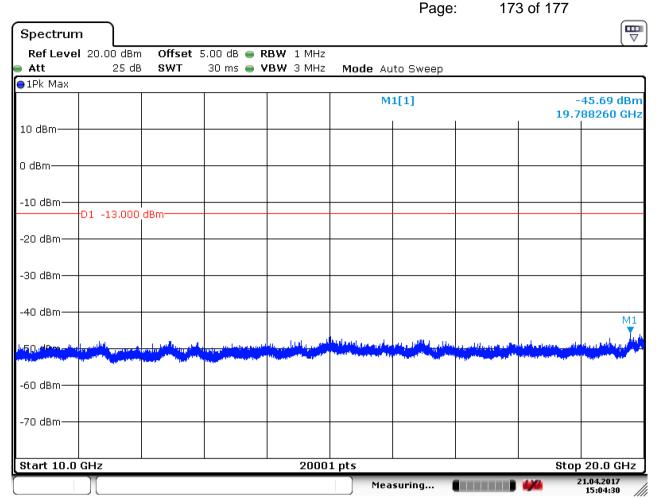
Page: 172 of 177



Date: 21.APR.2017 15:21:05



Report No.: SZEM170300261304



Date: 21.APR.2017 15:04:30



Report No.: SZEM170300261304

Page: 174 of 177

#### 7 Field Strength of Spurious Radiation

#### 7.1 For LTE

#### 7.1.1 Test Band = LTE band25

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

#### 7.1.1.1.1 Test Channel = LCH

71111111 100t Gridinior – 2011							
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization			
5827.500	-67.26	-13.00	-54.26	Vertical			
7290.000	-65.77	-13.00	-52.77	Vertical			
8947.500	-65.63	-13.00	-52.63	Vertical			
1232.000	-67.36	-13.00	-54.36	Horizontal			
3585.000	-69.18	-13.00	-56.18	Horizontal			
6022.500	-66.51	-13.00	-53.51	Horizontal			

#### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1095.000	-67.81	-13.00	-54.81	Vertical
1551.000	-66.51	-13.00	-53.51	Vertical
1793.000	-63.66	-13.00	-50.66	Vertical
1661.000	-65.06	-13.00	-52.06	Horizontal
1991.000	-62.88	-13.00	-49.88	Horizontal
4657.500	-67.92	-13.00	-54.92	Horizontal

#### 7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1496.000	-66.58	-13.00	-53.58	Vertical	
1738.000	-64.15	-13.00	-51.15	Vertical	
3975.000	-68.39	-13.00	-55.39	Vertical	
1408.000	-67.34	-13.00	-54.34	Horizontal	
2656.000	-58.00	-13.00	-45.00	Horizontal	
7485.000	-66.46	-13.00	-53.46	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.



Report No.: SZEM170300261304

Page: 175 of 177

#### 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	-3.45	-0.00185	PASS
				VN	-1.12	-0.00060	PASS
				VH	-2.45	-0.00132	PASS
				VL	-5.33	-0.00283	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-1.40	-0.00074	PASS
				VH	-4.29	-0.00228	PASS
		НСН	TN	VL	-4.30	-0.00226	PASS
				VN	-6.20	-0.00325	PASS
LTEband25				VH	-1.52	-0.00080	PASS
LTEDANG25	LTE/TM2 20MHz	LCH	TN	VL	0.45	0.00024	PASS
				VN	-1.68	-0.00090	PASS
				VH	0.44	0.00024	PASS
		МСН	TN	VL	2.88	0.00153	PASS
				VN	2.41	0.00128	PASS
				VH	-6.12	-0.00325	PASS
		НСН		VL	-5.43	-0.00285	PASS
			TN	VN	-1.31	-0.00069	PASS
				VH	-2.65	-0.00139	PASS



Report No.: SZEM170300261304

Page: 176 of 177

#### 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	2.72	0.00146	PASS
				-20	1.60	0.00086	PASS
				-10	0.63	0.00034	PASS
				0	-2.88	-0.00155	PASS
		LCH	VN	10	0.57	0.00031	PASS
				20	-1.82	-0.00098	PASS
				30	3.70	0.00199	PASS
				40	-5.02	-0.00270	PASS
				50	-6.03	-0.00324	PASS
	LTE/TM1 20MHz			-30	-2.80	-0.00149	PASS
		МСН	VN	-20	-3.28	-0.00174	PASS
				-10	-0.39	-0.00021	PASS
				0	-4.31	-0.00229	PASS
LTEband25				10	2.31	0.00123	PASS
				20	1.72	0.00091	PASS
				30	1.63	0.00087	PASS
				40	2.13	0.00113	PASS
				50	-4.34	-0.00231	PASS
		нсн		-30	-2.12	-0.00111	PASS
				-20	0.68	0.00036	PASS
				-10	3.50	0.00184	PASS
				0	-3.32	-0.00174	PASS
			VN	10	1.29	0.00068	PASS
				20	-4.78	-0.00251	PASS
				30	2.22	0.00117	PASS
				40	-2.68	-0.00141	PASS
				50	-5.60	-0.00294	PASS



Report No.: SZEM170300261304

Page: 177 of 177

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-2.39	-0.00128	PASS
				-20	-6.96	-0.00374	PASS
				-10	-3.97	-0.00213	PASS
				0	2.30	0.00124	PASS
		LCH	VN	10	-5.65	-0.00304	PASS
				20	-2.11	-0.00113	PASS
				30	-5.96	-0.00320	PASS
				40	-5.51	-0.00296	PASS
				50	-4.94	-0.00266	PASS
	LTE/TM2 20MHz	МСН		-30	-3.32	-0.00176	PASS
			VN	-20	-4.29	-0.00228	PASS
				-10	-2.34	-0.00124	PASS
				0	-7.76	-0.00412	PASS
LTEband25				10	1.60	0.00085	PASS
				20	-2.43	-0.00129	PASS
				30	-4.13	-0.00219	PASS
				40	-5.24	-0.00278	PASS
				20 -2.43 -0.00129 30 -4.13 -0.00219	PASS		
		нсн		-30	-3.25	-0.00171	PASS
				-20	-4.54	-0.00238	PASS
				-10	-7.22	-0.00379	PASS
				0	1.30	0.00068	PASS
			VN	10	-3.37	-0.00177	PASS
				20	-4.03	-0.00212	PASS
				30	-3.12	-0.00164	PASS
				40	-2.89	-0.00152	PASS
				50	-5.17	-0.00271	PASS

The End