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6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

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6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0

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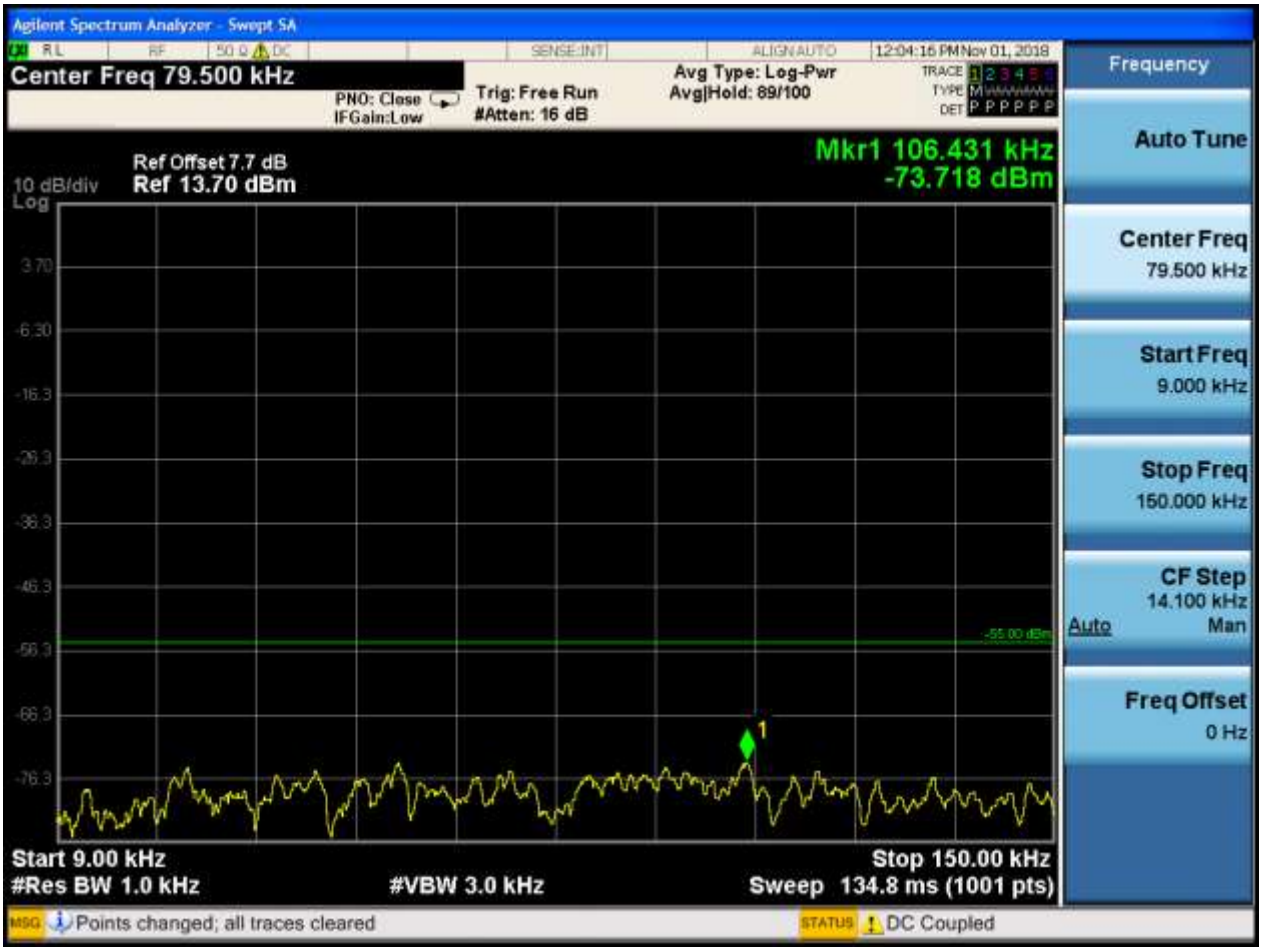
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



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Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 47/100
12:04:33 PM Nov 01, 2018
Ref Offset 7.7 dB
10 dB/div
Ref 25.70 dBm
Log
Mkr1 22.424 07 MHz
-68.075 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
Points changed; all traces cleared
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

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6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

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6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0

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Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 47/100
12:06:25 PM Nov 01, 2018
Ref Offset 7.7 dB
10 dB/div
Ref 25.70 dBm
Log
Mkr1 16.382 43 MHz
-68.090 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
Points changed; all traces cleared
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

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6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

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6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

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6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0

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6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

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6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

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6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0

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Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 68/100
12:12:32 PM Nov 01, 2018
Ref Offset 7.7 dB
10 dB/div
Ref 25.70 dBm
Log
Mkr1 2.671 0 GHz
26.639 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

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6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

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6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0

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6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

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6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

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6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0

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6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

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6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

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6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0

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6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

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6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

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6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0

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7Appendix_G: Field Strength of Spurious Radiation

Note:We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND41

7.1.1.1 Test Bandwidth = 5

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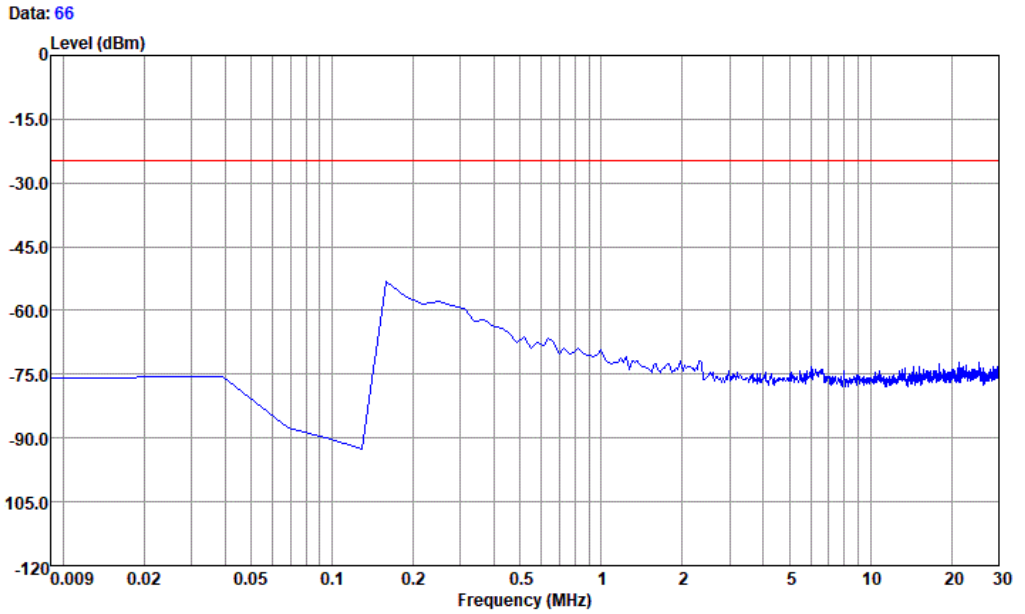

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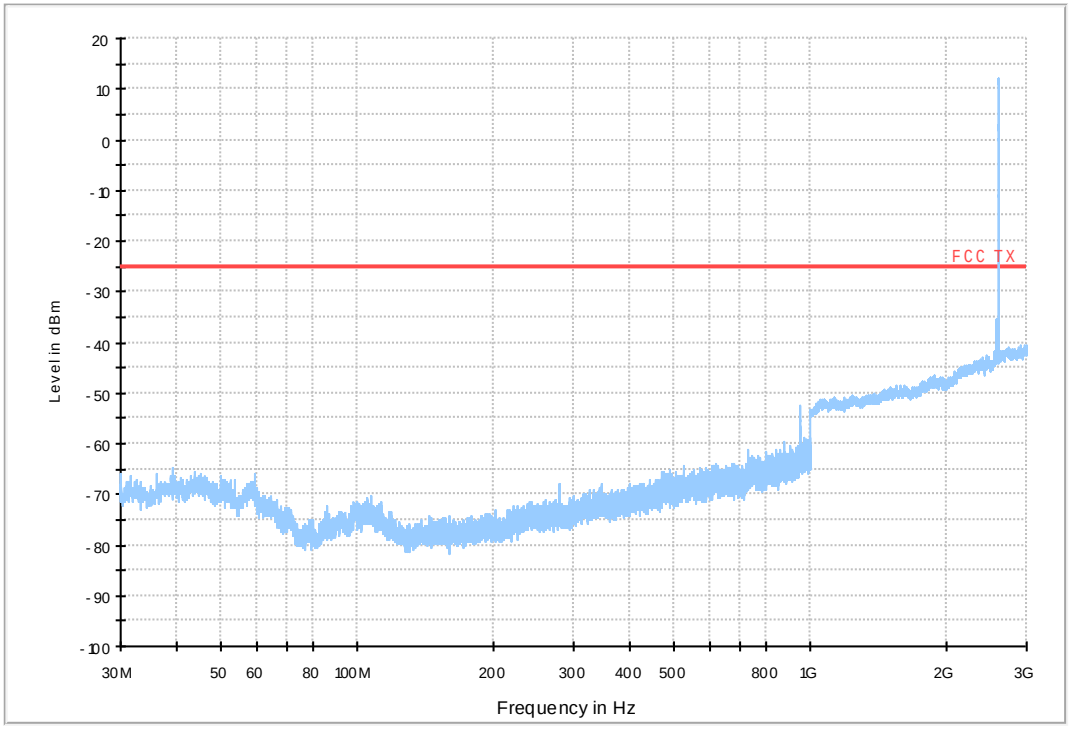
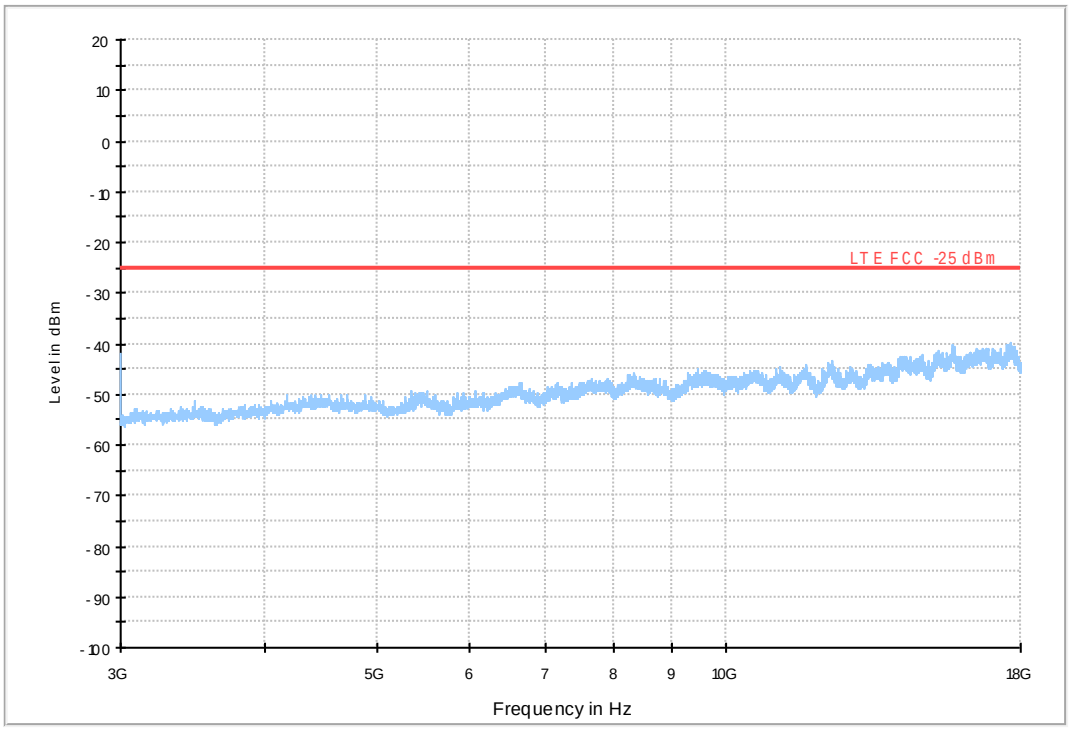
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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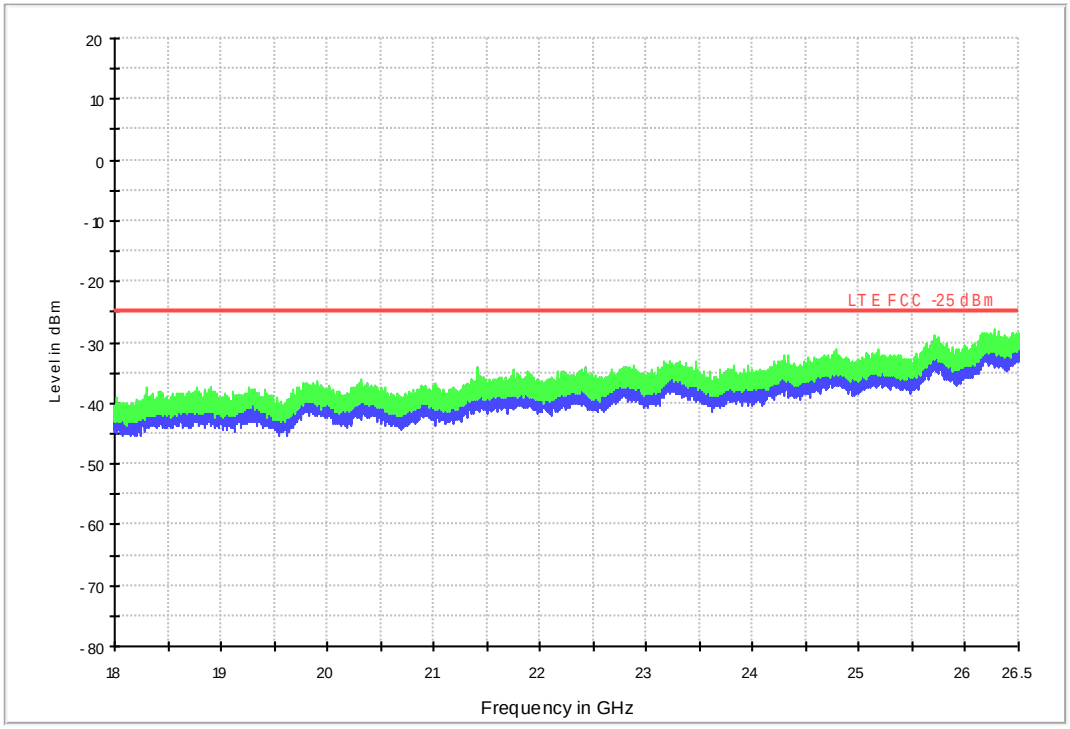
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



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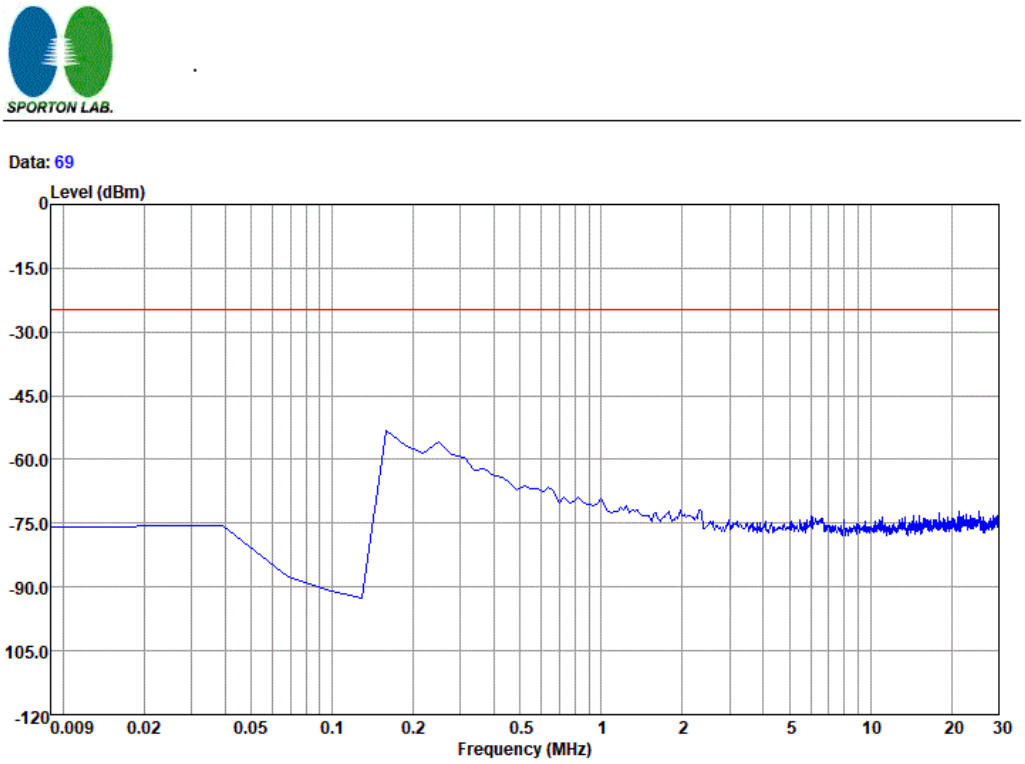
7.1.1.2 Test Bandwidth = 20



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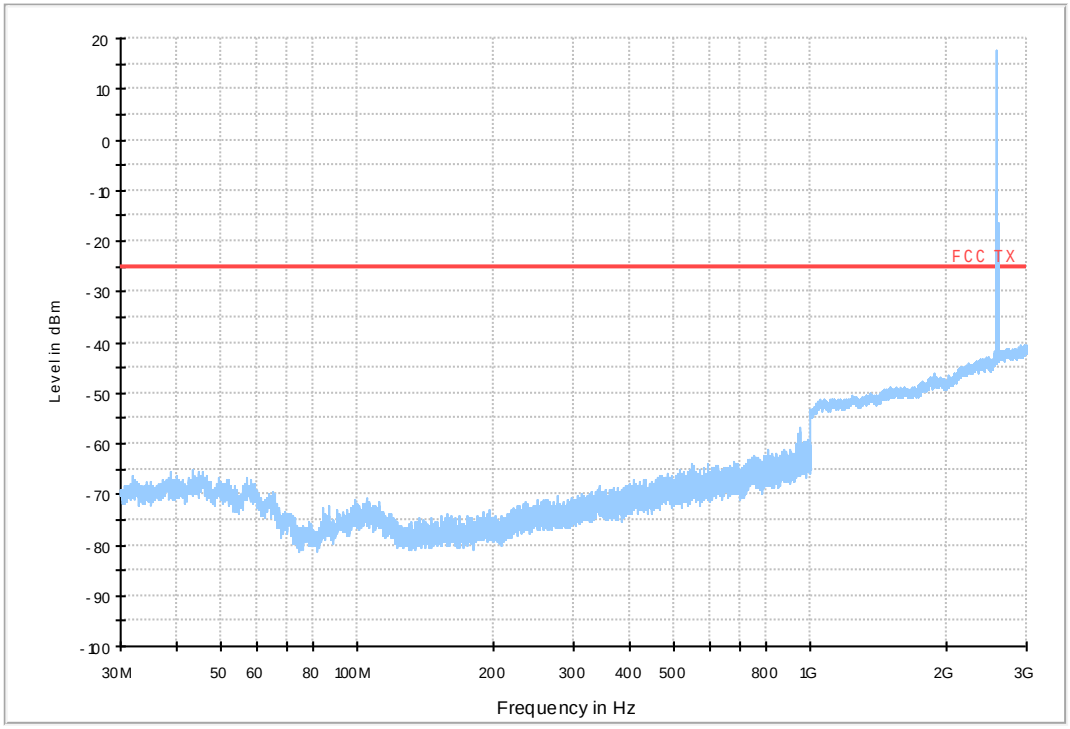
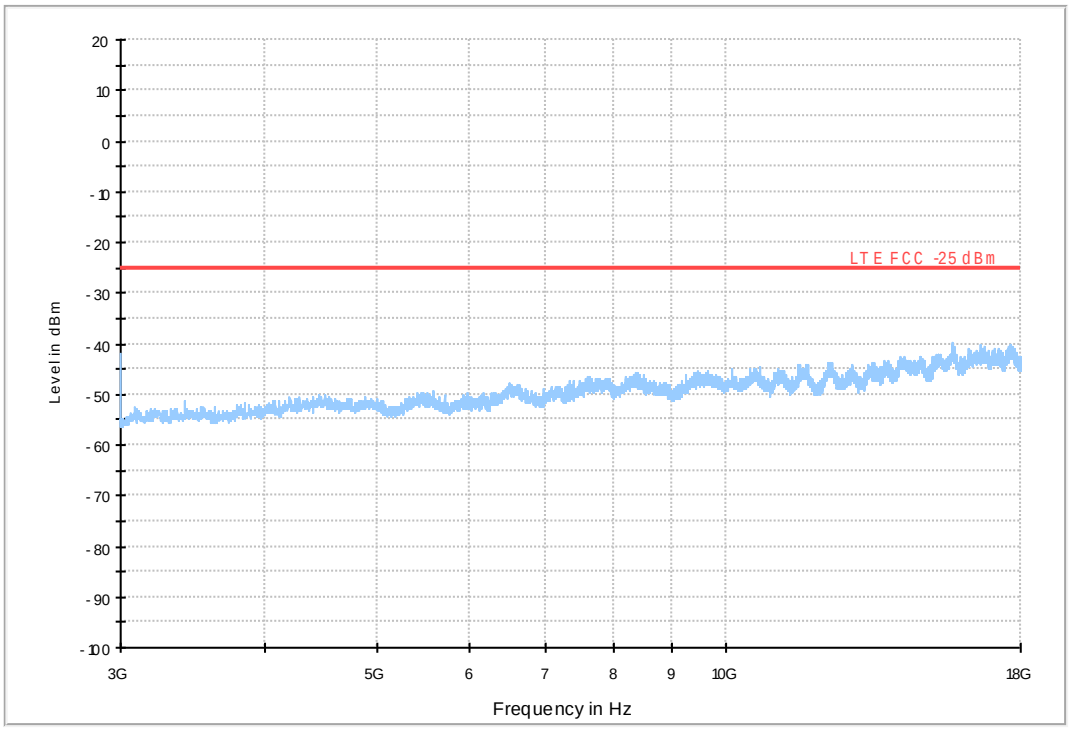
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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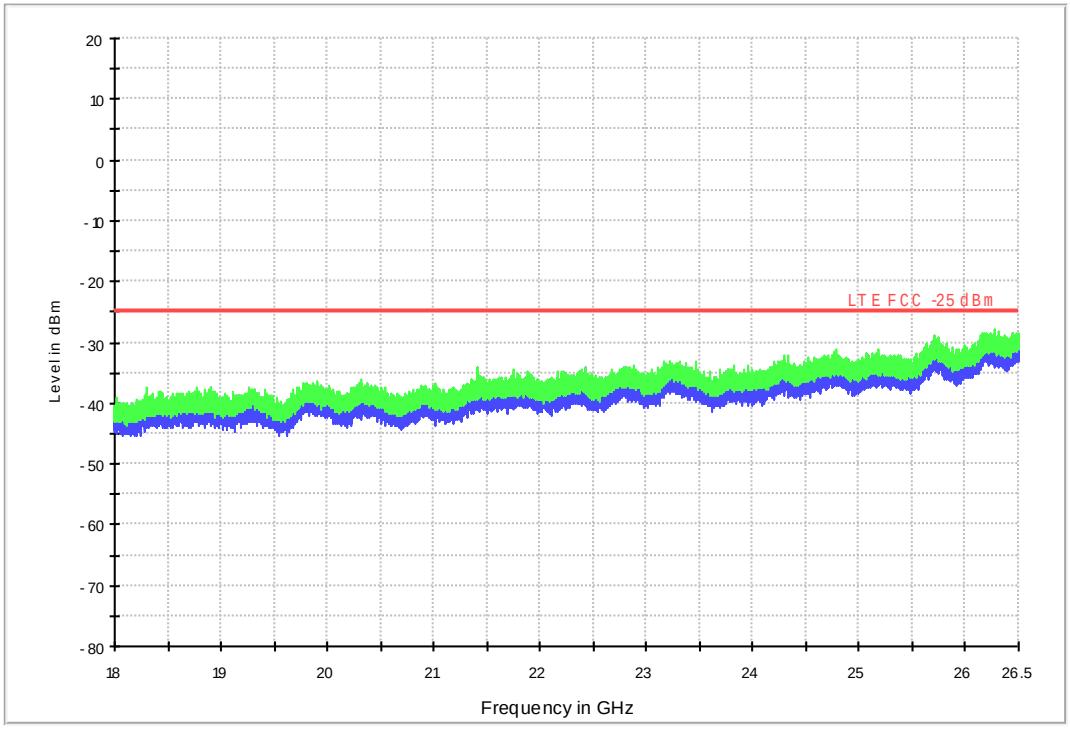
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



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8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND41	LTE/TM1	5	LCH	TN	VL	-13.96	-0.00559	PASS
					VN	-6.91	-0.00277	PASS
					VH	-13.82	-0.00553	PASS
			MCH	TN	VL	-34.69	-0.01338	PASS
					VN	-30.66	-0.01182	PASS
					VH	-22.47	-0.00867	PASS
			HCH	TN	VL	-22.34	-0.00831	PASS
					VN	-29.37	-0.01093	PASS
					VH	-22.83	-0.00849	PASS
		10	LCH	TN	VL	-20.96	-0.00838	PASS
					VN	-9.91	-0.00396	PASS
					VH	-6.18	-0.00247	PASS
			MCH	TN	VL	-24.06	-0.00928	PASS
					VN	-24.16	-0.00932	PASS
					VH	-21.44	-0.00827	PASS
			HCH	TN	VL	-24.99	-0.00931	PASS
					VN	-22.73	-0.00847	PASS
					VH	-19.56	-0.00728	PASS
		15	LCH	TN	VL	-11.32	-0.00452	PASS
					VN	-12.65	-0.00505	PASS
					VH	-15.56	-0.00622	PASS
			MCH	TN	VL	-23	-0.00887	PASS
					VN	-21.13	-0.00815	PASS
					VH	-19.15	-0.00739	PASS
			HCH	TN	VL	-18.83	-0.00702	PASS
					VN	-16.45	-0.00613	PASS
					VH	-21.69	-0.00809	PASS
		20	LCH	TN	VL	-13.18	-0.00526	PASS
					VN	-15.91	-0.00635	PASS
					VH	-17.34	-0.00692	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VL	-17.9	-0.0069	PASS
					VN	-21.24	-0.00819	PASS
					VH	-17.15	-0.00661	PASS
			HCH	TN	VL	-20.28	-0.00757	PASS
					VN	-17.78	-0.00663	PASS
					VH	-17.91	-0.00668	PASS
	LTE/TM2	5	LCH	TN	VL	-14.05	-0.00562	PASS
					VN	-15.66	-0.00627	PASS
					VH	-21.09	-0.00844	PASS
			MCH	TN	VL	-20.5	-0.00791	PASS
					VN	-24.46	-0.00943	PASS
					VH	-38.11	-0.0147	PASS
			HCH	TN	VL	-19.78	-0.00736	PASS
					VN	-22.06	-0.00821	PASS
					VH	-21.17	-0.00788	PASS
		10	LCH	TN	VL	-6.41	-0.00256	PASS
					VN	-11.63	-0.00465	PASS
					VH	-12.55	-0.00502	PASS
			MCH	TN	VL	-19.9	-0.00767	PASS
					VN	-22.79	-0.00879	PASS
					VH	-21.86	-0.00843	PASS
			HCH	TN	VL	-17.61	-0.00656	PASS
					VN	-19.13	-0.00712	PASS
					VH	-18.22	-0.00679	PASS
		15	LCH	TN	VL	-14.39	-0.00575	PASS
					VN	-13.9	-0.00555	PASS
					VH	-14.89	-0.00595	PASS
			MCH	TN	VL	-18.57	-0.00716	PASS
					VN	-18	-0.00694	PASS
					VH	-20.66	-0.00797	PASS
			HCH	TN	VL	-18.58	-0.00693	PASS
					VN	-17.71	-0.0066	PASS
					VH	-16.98	-0.00633	PASS
		20	LCH	TN	VL	-16.55	-0.0066	PASS
					VN	-12.67	-0.00506	PASS
					VH	-17.42	-0.00695	PASS
			MCH	TN	VL	-19.15	-0.00739	PASS
					VN	-22.49	-0.00867	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	-18.01	-0.00695	PASS
			HCH	TN	VL	-17.8	-0.00664	PASS
					VN	-18.53	-0.00691	PASS
					VH	-17.22	-0.00643	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND41	LTE/TM1	5	LCH	VN	-30	-18.54	-0.00742	PASS
					-20	-14.86	-0.00595	PASS
					-10	-12.19	-0.00488	PASS
					0	-13.95	-0.00558	PASS
					10	-9.48	-0.00379	PASS
					20	-12.02	-0.00481	PASS
					30	-11.54	-0.00462	PASS
					40	-19.97	-0.00799	PASS
					50	-8.87	-0.00355	PASS
			MCH	VN	-30	-31.1	-0.01199	PASS
					-20	-30.3	-0.01169	PASS
					-10	-24.76	-0.00955	PASS
					0	-23.29	-0.00898	PASS
					10	-20.43	-0.00788	PASS
					20	-24.42	-0.00942	PASS
					30	-35.26	-0.0136	PASS
					40	-26.32	-0.01015	PASS
					50	-22.19	-0.00856	PASS
			HCH	VN	-30	-16.97	-0.00631	PASS
					-20	-19.7	-0.00733	PASS
					-10	-16.87	-0.00628	PASS
					0	-19.73	-0.00734	PASS
					10	-19.66	-0.00732	PASS
					20	-18.25	-0.00679	PASS
					30	-22.42	-0.00834	PASS
					40	-16.05	-0.00597	PASS
					50	-21.33	-0.00794	PASS
		10	LCH	VN	-30	-10.39	-0.00415	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-12.17	-0.00487	PASS
					-10	-11.99	-0.00479	PASS
					0	-18.88	-0.00755	PASS
					10	-16.11	-0.00644	PASS
					20	-11.63	-0.00465	PASS
					30	-6.44	-0.00257	PASS
					40	-13.5	-0.0054	PASS
					50	-12.1	-0.00484	PASS
			MCH	VN	-30	-16.24	-0.00626	PASS
					-20	-21.8	-0.00841	PASS
					-10	-24.95	-0.00962	PASS
					0	-25.46	-0.00982	PASS
					10	-18.54	-0.00715	PASS
					20	-25.33	-0.00977	PASS
					30	-25.79	-0.00995	PASS
					40	-23.42	-0.00903	PASS
					50	-21.41	-0.00826	PASS
			HCH	VN	-30	-16.48	-0.00614	PASS
					-20	-22.57	-0.00841	PASS
					-10	-21.17	-0.00788	PASS
					0	-19.68	-0.00733	PASS
					10	-18.1	-0.00674	PASS
					20	-18.87	-0.00703	PASS
					30	-18.27	-0.0068	PASS
					40	-21.89	-0.00815	PASS
					50	-13.89	-0.00517	PASS
		15	LCH	VN	-30	-12.97	-0.00518	PASS
					-20	-16.14	-0.00645	PASS
					-10	-14.23	-0.00568	PASS
					0	-20.76	-0.00829	PASS
					10	-22.69	-0.00906	PASS
					20	-15.68	-0.00626	PASS
					30	-14.82	-0.00592	PASS
					40	-15.81	-0.00632	PASS
					50	-13.53	-0.0054	PASS
			MCH	VN	-30	-28.02	-0.01081	PASS
					-20	-30.63	-0.01181	PASS
					-10	-21.31	-0.00822	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-30.63	-0.01181	PASS
					10	-20.26	-0.00781	PASS
					20	-26.68	-0.01029	PASS
					30	-22.85	-0.00881	PASS
					40	-20.74	-0.008	PASS
					50	-25.73	-0.00992	PASS
			HCH	VN	-30	-17.37	-0.00648	PASS
					-20	-19.45	-0.00725	PASS
					-10	-16.31	-0.00608	PASS
					0	-19.35	-0.00721	PASS
					10	-20.83	-0.00777	PASS
					20	-17.31	-0.00645	PASS
					30	-21.3	-0.00794	PASS
					40	-18.58	-0.00693	PASS
					50	-19.47	-0.00726	PASS
		20	LCH	VN	-30	-11.57	-0.00462	PASS
					-20	-13.2	-0.00527	PASS
					-10	-14.32	-0.00571	PASS
					0	-15.71	-0.00627	PASS
					10	-18.4	-0.00734	PASS
					20	-18.45	-0.00736	PASS
					30	-18.51	-0.00739	PASS
					40	-15.56	-0.00621	PASS
					50	-12.5	-0.00499	PASS
			MCH	VN	-30	-19.05	-0.00735	PASS
					-20	-20.63	-0.00796	PASS
					-10	-23.59	-0.0091	PASS
					0	-19.14	-0.00738	PASS
					10	-22.75	-0.00877	PASS
					20	-22.72	-0.00876	PASS
					30	-21.59	-0.00833	PASS
					40	-20.8	-0.00802	PASS
					50	-20.31	-0.00783	PASS
			HCH	VN	-30	-15.85	-0.00591	PASS
					-20	-18.67	-0.00697	PASS
					-10	-15.32	-0.00572	PASS
					0	-18.28	-0.00682	PASS
					10	-16.62	-0.0062	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-18.3	-0.00683	PASS
					30	-18.05	-0.00674	PASS
					40	-19.43	-0.00725	PASS
					50	-16.69	-0.00623	PASS
	LTE/TM2	5	LCH	VN	-30	-11.82	-0.00473	PASS
					-20	-20.23	-0.0081	PASS
					-10	-10.46	-0.00419	PASS
					0	-8.08	-0.00323	PASS
					10	-15.55	-0.00622	PASS
					20	-18.02	-0.00721	PASS
					30	-13.98	-0.0056	PASS
					40	-6.01	-0.00241	PASS
					50	-18.81	-0.00753	PASS
			MCH	VN	-30	-23.22	-0.00895	PASS
					-20	-23.22	-0.00895	PASS
					-10	-24.7	-0.00953	PASS
					0	-21.73	-0.00838	PASS
					10	-28.28	-0.01091	PASS
					20	-19.35	-0.00746	PASS
					30	-23.03	-0.00888	PASS
					40	-23.7	-0.00914	PASS
					50	-25.12	-0.00969	PASS
			HCH	VN	-30	-19.8	-0.00737	PASS
					-20	-15.02	-0.00559	PASS
					-10	-22.39	-0.00833	PASS
					0	-21.17	-0.00788	PASS
					10	-21.67	-0.00806	PASS
					20	-24.7	-0.00919	PASS
					30	-22.75	-0.00847	PASS
					40	-19.81	-0.00737	PASS
					50	-19.9	-0.0074	PASS
		10	LCH	VN	-30	-16.99	-0.00679	PASS
					-20	-11.03	-0.00441	PASS
					-10	2.93	0.00117	PASS
					0	-18.73	-0.00749	PASS
					10	-18.24	-0.00729	PASS
					20	-15.84	-0.00633	PASS
					30	-16.22	-0.00649	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-12.67	-0.00507	PASS
					50	-6.61	-0.00264	PASS
			MCH	VN	-30	-23.3	-0.00899	PASS
					-20	-25.42	-0.0098	PASS
					-10	-22.76	-0.00878	PASS
					0	-18.97	-0.00732	PASS
					10	-23.32	-0.00899	PASS
					20	-21.72	-0.00838	PASS
					30	-20.08	-0.00774	PASS
					40	-23.06	-0.00889	PASS
					50	-20.46	-0.00789	PASS
			HCH	VN	-30	-19.45	-0.00724	PASS
					-20	-18.65	-0.00695	PASS
					-10	-19.31	-0.00719	PASS
					0	-20.36	-0.00758	PASS
					10	-23	-0.00857	PASS
					20	-22.52	-0.00839	PASS
					30	-15.69	-0.00584	PASS
					40	-22.24	-0.00828	PASS
					50	-20.91	-0.00779	PASS
		15	LCH	VN	-30	-13.03	-0.0052	PASS
					-20	-15.01	-0.006	PASS
					-10	-17.31	-0.00691	PASS
					0	-16.64	-0.00665	PASS
					10	-19.28	-0.0077	PASS
					20	-16.39	-0.00655	PASS
					30	-16.92	-0.00676	PASS
					40	-16.69	-0.00667	PASS
					50	-15.68	-0.00626	PASS
			MCH	VN	-30	-26.29	-0.01014	PASS
					-20	-20.17	-0.00778	PASS
					-10	-22.95	-0.00885	PASS
					0	-22.19	-0.00856	PASS
					10	-17.52	-0.00676	PASS
					20	-25.63	-0.00988	PASS
					30	-19.23	-0.00742	PASS
					40	-21.33	-0.00823	PASS
					50	-22.82	-0.0088	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	-30	-18.8	-0.00701	PASS
					-20	-18.04	-0.00673	PASS
					-10	-23.57	-0.00879	PASS
					0	-22.44	-0.00837	PASS
					10	-19.47	-0.00726	PASS
					20	-15.05	-0.00561	PASS
					30	-18.05	-0.00673	PASS
					40	-19.01	-0.00709	PASS
					50	-20.89	-0.00779	PASS
		20	LCH	VN	-30	-13.52	-0.0054	PASS
					-20	-14.05	-0.00561	PASS
					-10	-14.2	-0.00567	PASS
					0	-13	-0.00519	PASS
					10	-14.31	-0.00571	PASS
					20	-13.7	-0.00547	PASS
					30	-13.4	-0.00535	PASS
					40	-14.56	-0.00581	PASS
					50	-14.48	-0.00578	PASS
			MCH	VN	-30	-20.48	-0.0079	PASS
					-20	-22.06	-0.00851	PASS
					-10	-19.23	-0.00742	PASS
					0	-19.64	-0.00757	PASS
					10	-19.3	-0.00744	PASS
					20	-18.27	-0.00705	PASS
					30	-19.27	-0.00743	PASS
					40	-20.28	-0.00782	PASS
					50	-20.36	-0.00785	PASS
			HCH	VN	-30	-19.51	-0.00728	PASS
					-20	-21.44	-0.008	PASS
					-10	-17.18	-0.00641	PASS
					0	-18.61	-0.00694	PASS
					10	-19.44	-0.00725	PASS
					20	-16.68	-0.00622	PASS
					30	-18.04	-0.00673	PASS
					40	-16.14	-0.00602	PASS
					50	-17.62	-0.00657	PASS

END

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