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6.2.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 PCC Test RB = 1 #0& SCC Test RB = 0

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6.2.1.2 Test Mode = LTE/TM2

6.2.1.2.1 Test Bandwidth = 15MHz+15MHz

6.2.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 PCC Test RB = 1 #0& SCC Test RB = 0

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6.2.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 PCC Test RB = 1 #0& SCC Test RB = 0

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Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 43/100
07:16:07 PM Dec 06, 2018
Ref Offset 18 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 155.97 kHz
-68.604 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
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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6.2.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 PCC Test RB = 1 #0& SCC Test RB = 0

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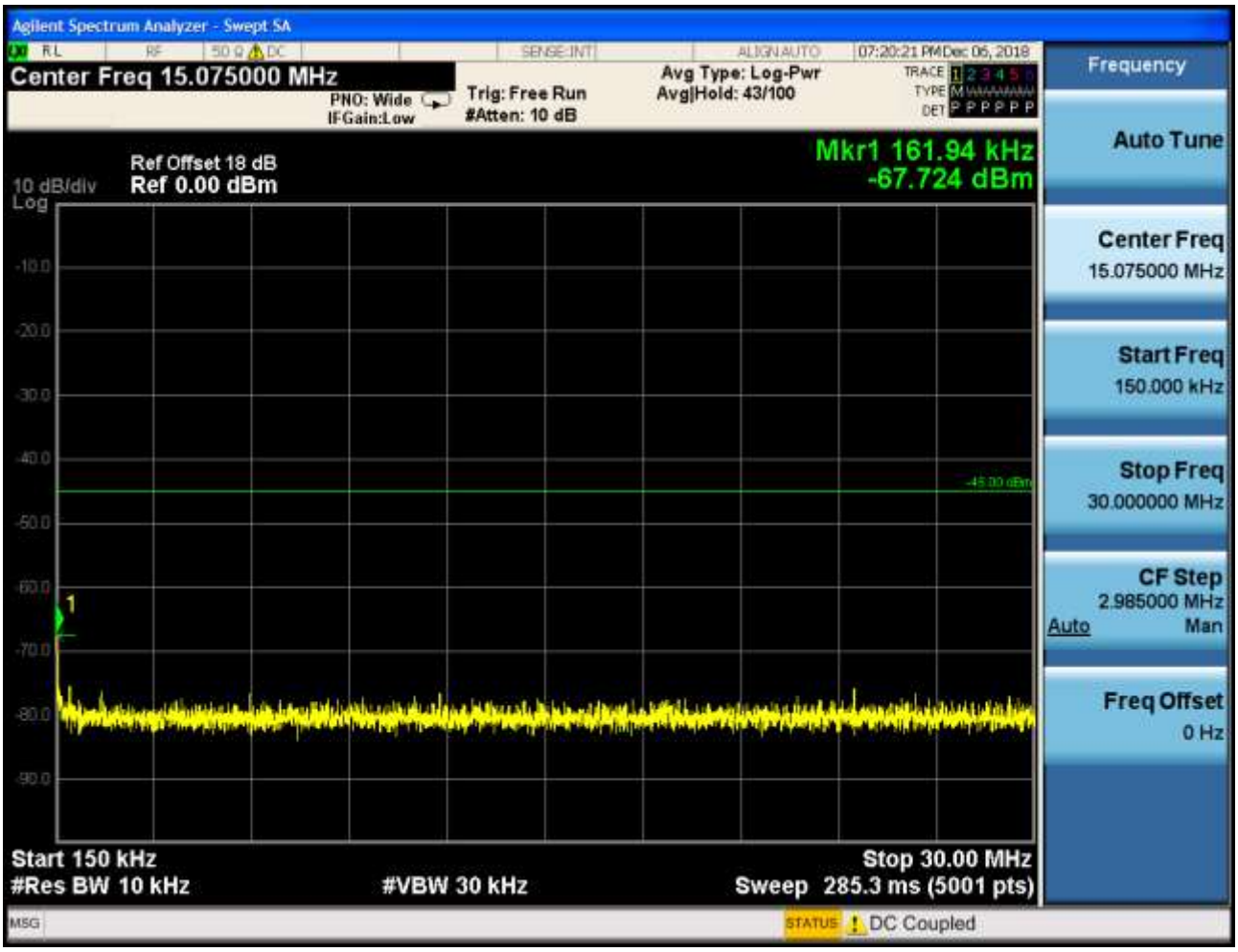

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6.2.1.2.2 Test Bandwidth = 20MHz+20MHz

6.2.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 PCC Test RB = 1 #0& SCC Test RB = 0

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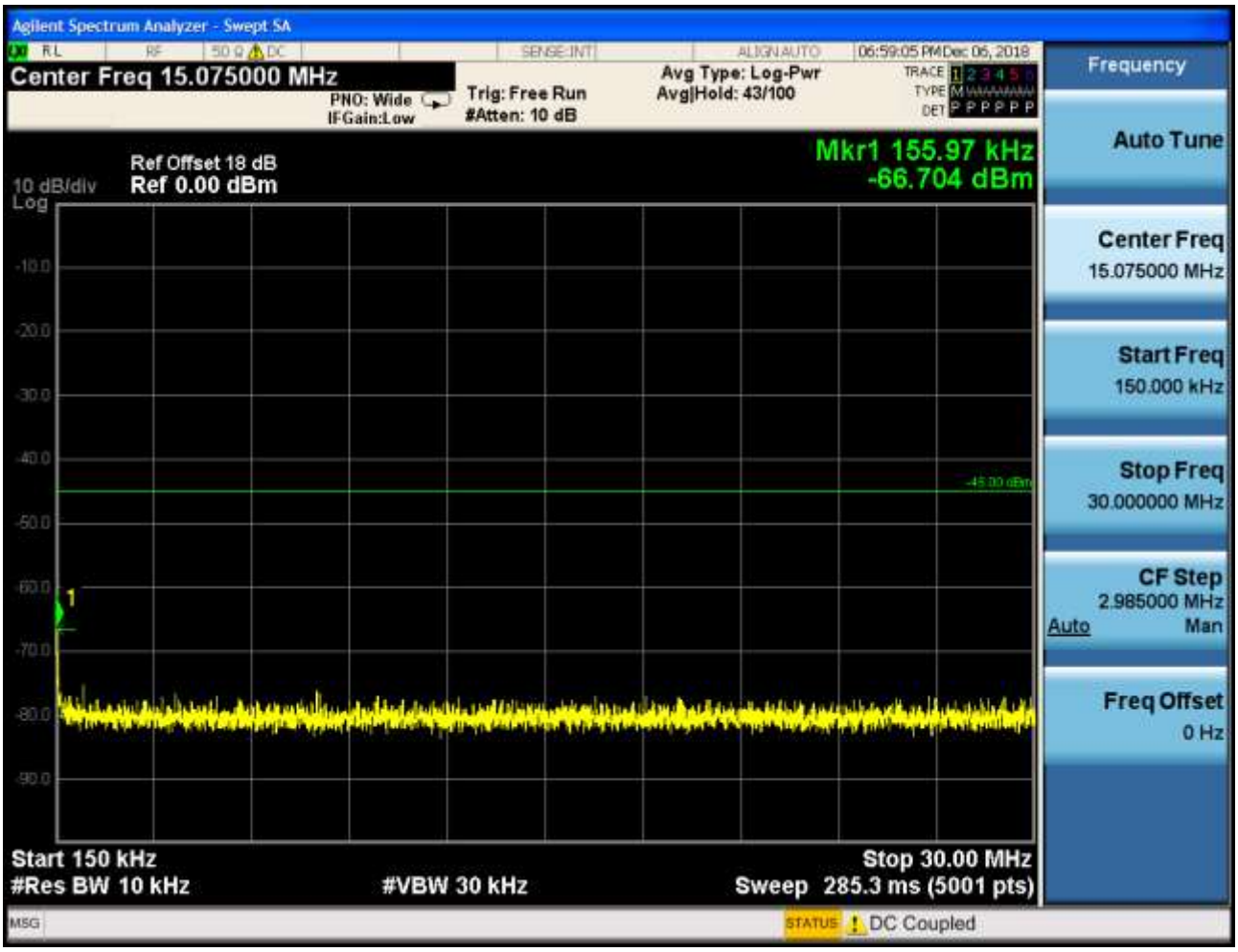
Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 43/100
06:59:05 PM Dec 06, 2018
Ref Offset 18 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 155.97 kHz
-66.704 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
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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6.2.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 PCC Test RB = 1 #0& SCC Test RB = 0

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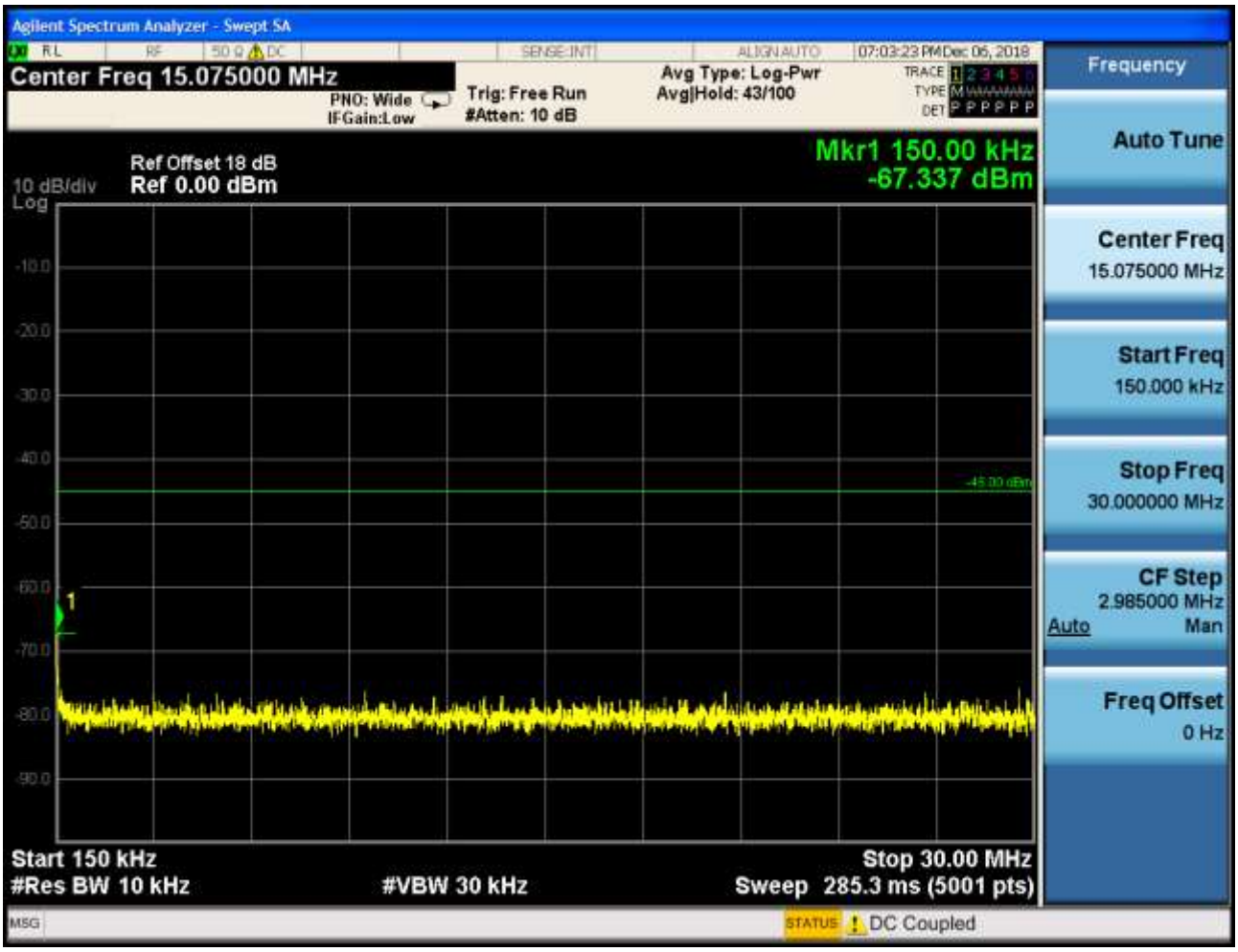

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6.2.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 PCC Test RB = 1 #0& SCC Test RB = 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 = CA_7C_ANT1

7.1.1.1 Test Bandwidth = 15MHz+15MHz

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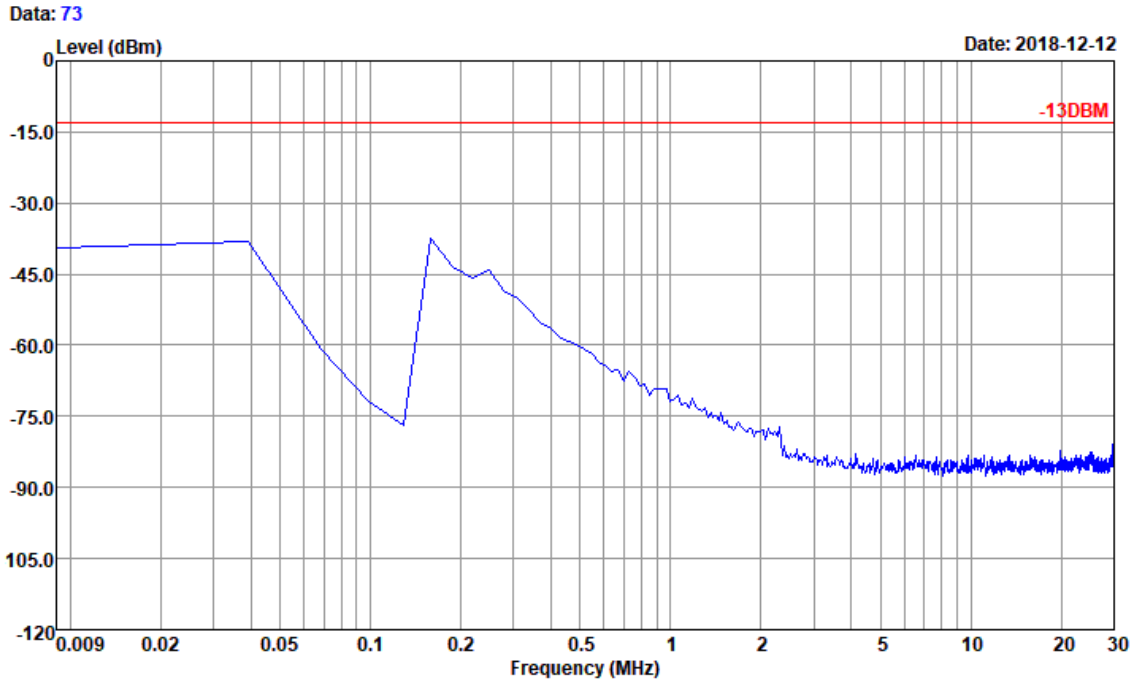


```
Site          : 03CH01-SZ
Condition     : -13DBM
              : RBW:9.000KHz VBW:30.000KHz
```


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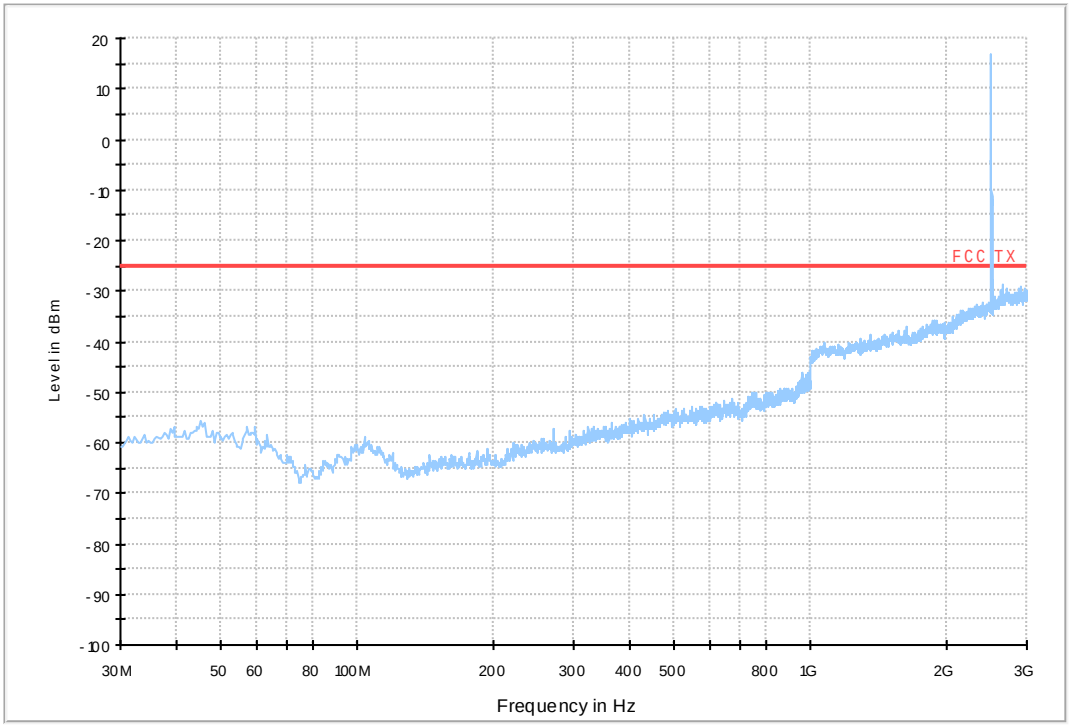
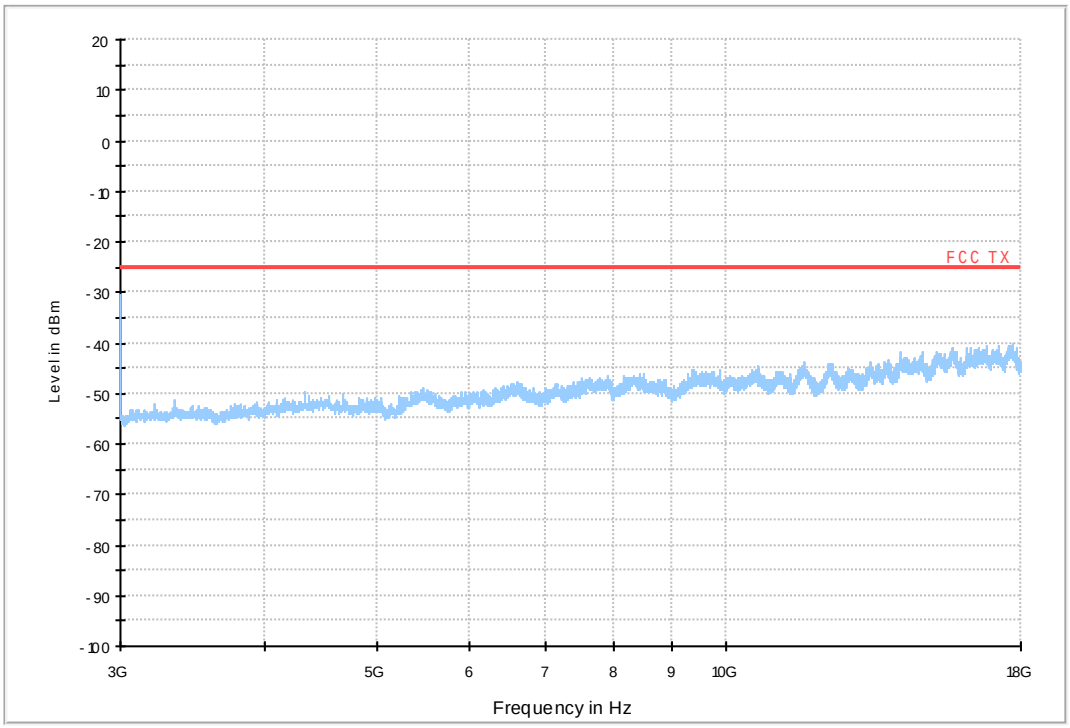
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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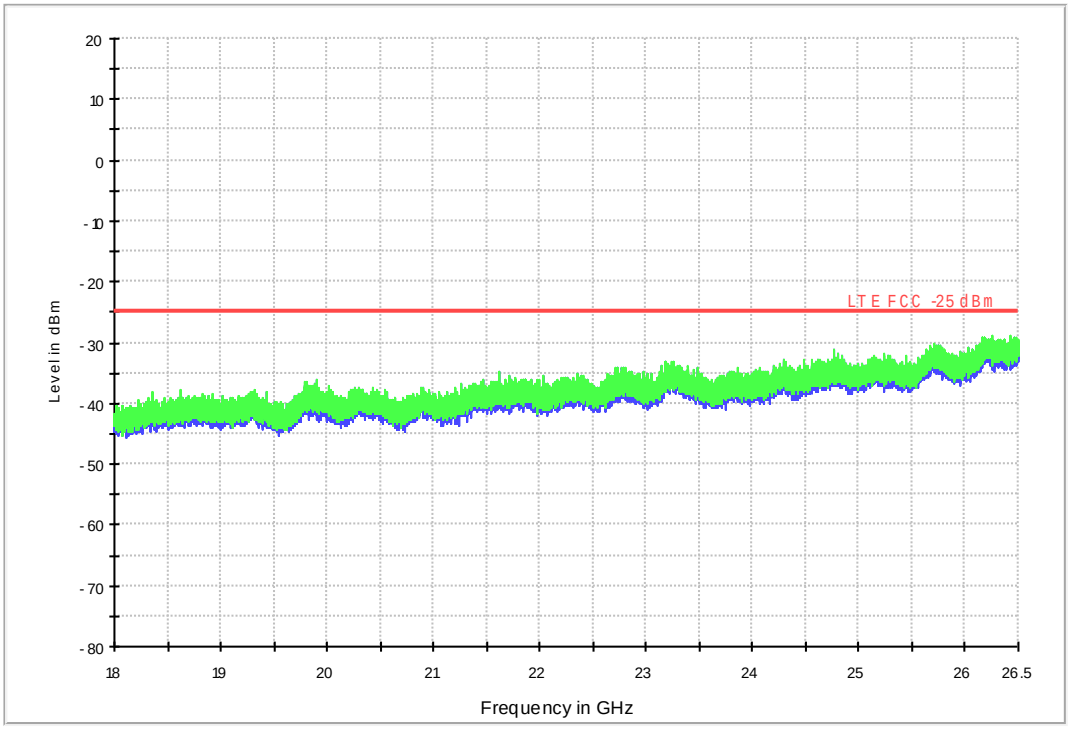
18G~ 26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



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7.1.1.2 Test Bandwidth = 20MHz+20MHz

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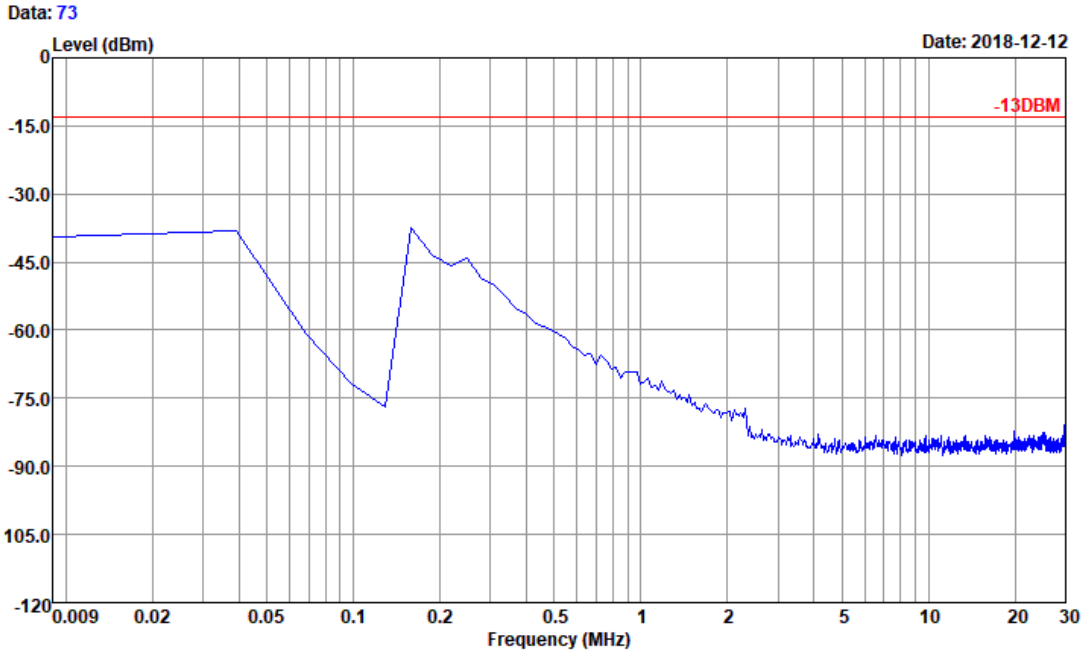


```
Site          : 03CH01-SZ
Condition     : -13DBM
              : RBW:9.000KHz VBW:30.000KHz
```


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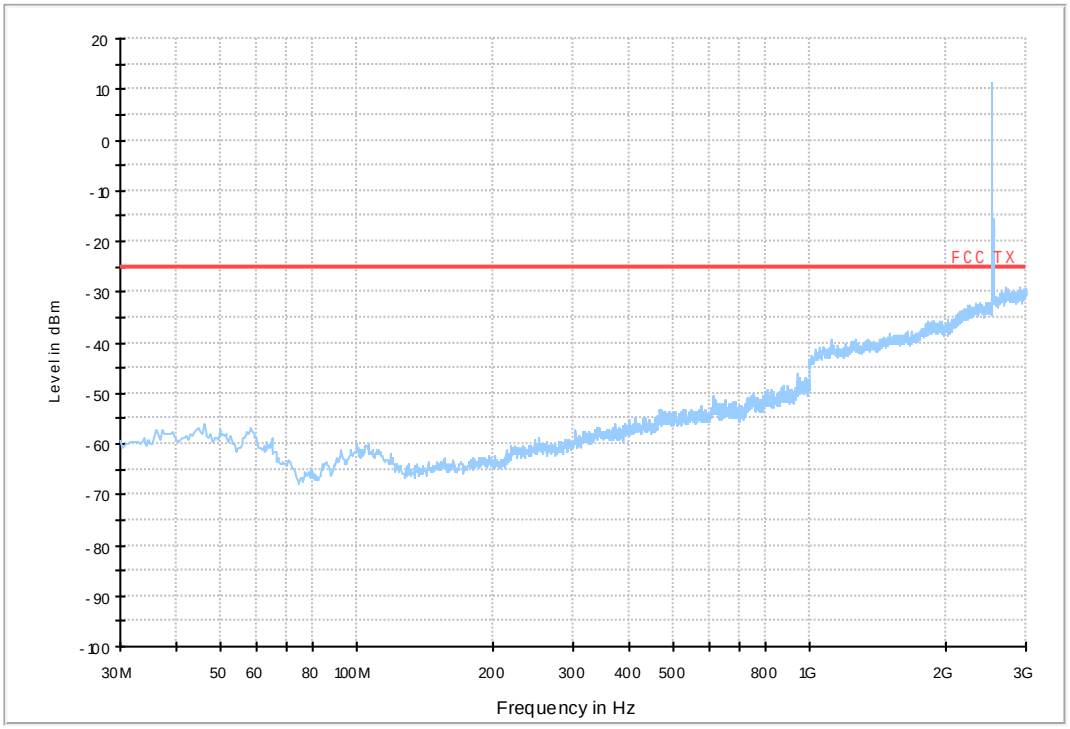
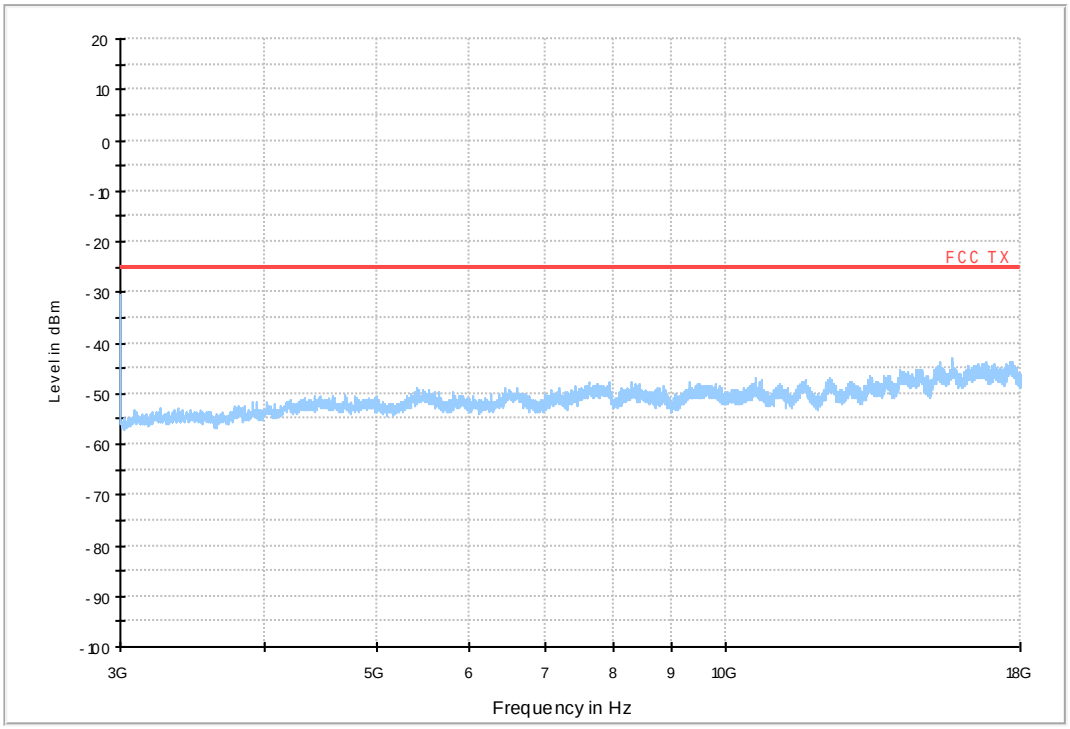
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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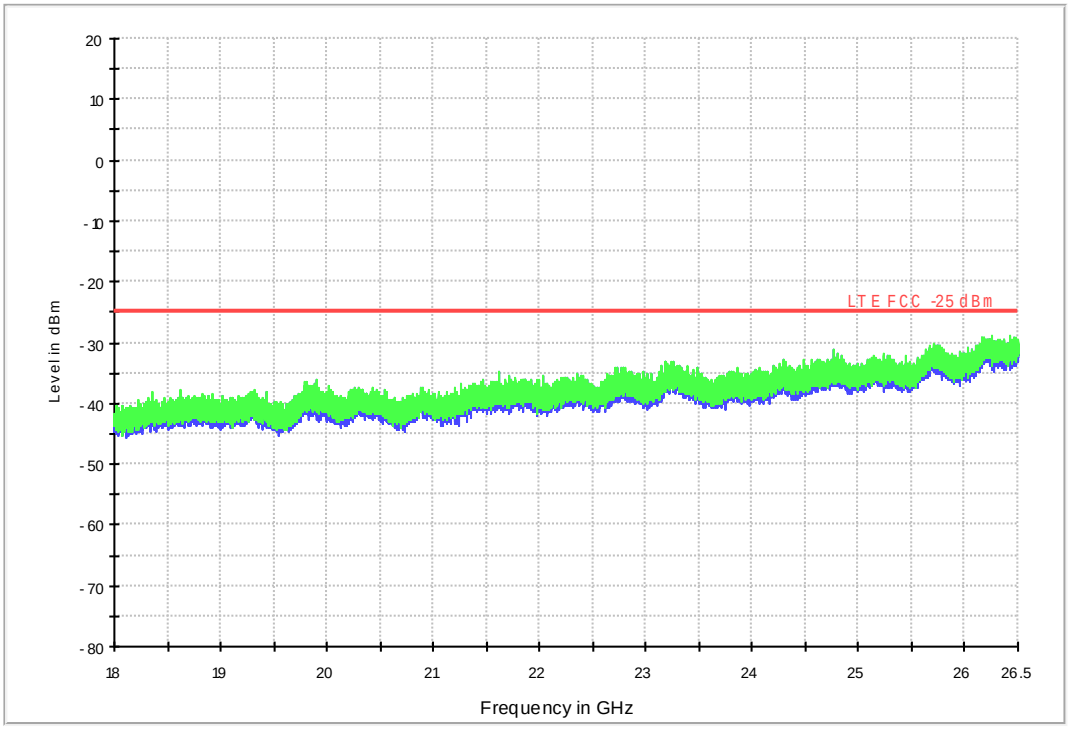
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



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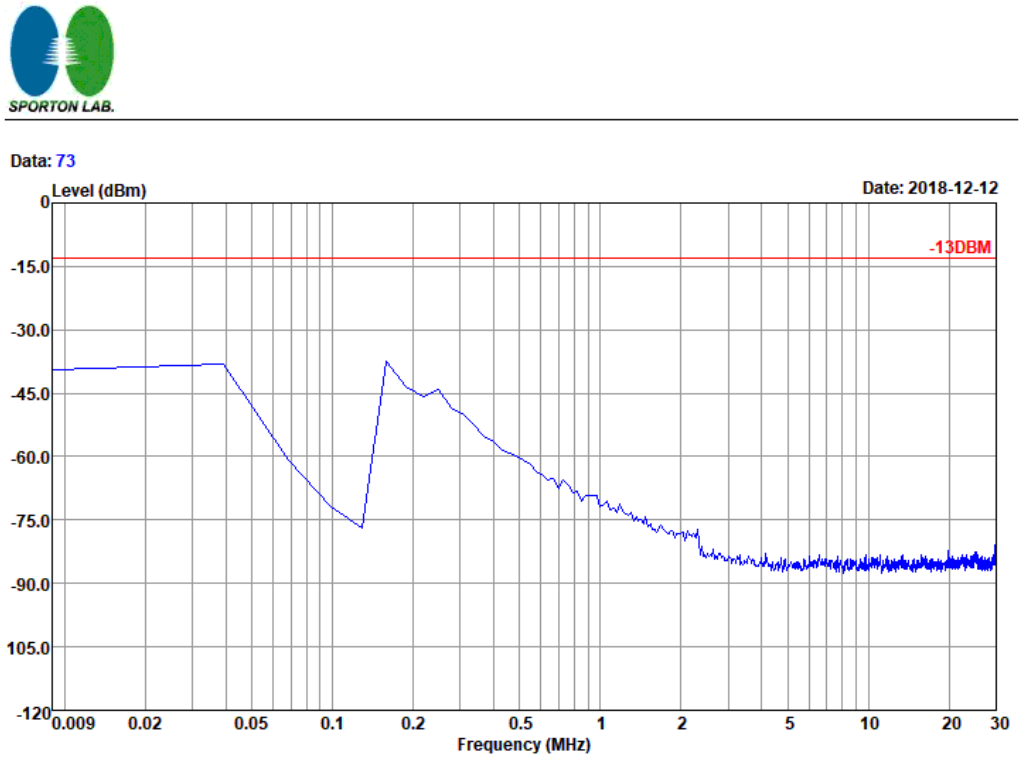
7.1.2 Test Band = CA_7C_ANT2

7.1.2.1 Test Bandwidth = 15MHz+15MHz




```
Site          : 03CH01-SZ
Condition     : -13DBM
              : RBW:9.000KHz VBW:30.000KHz
```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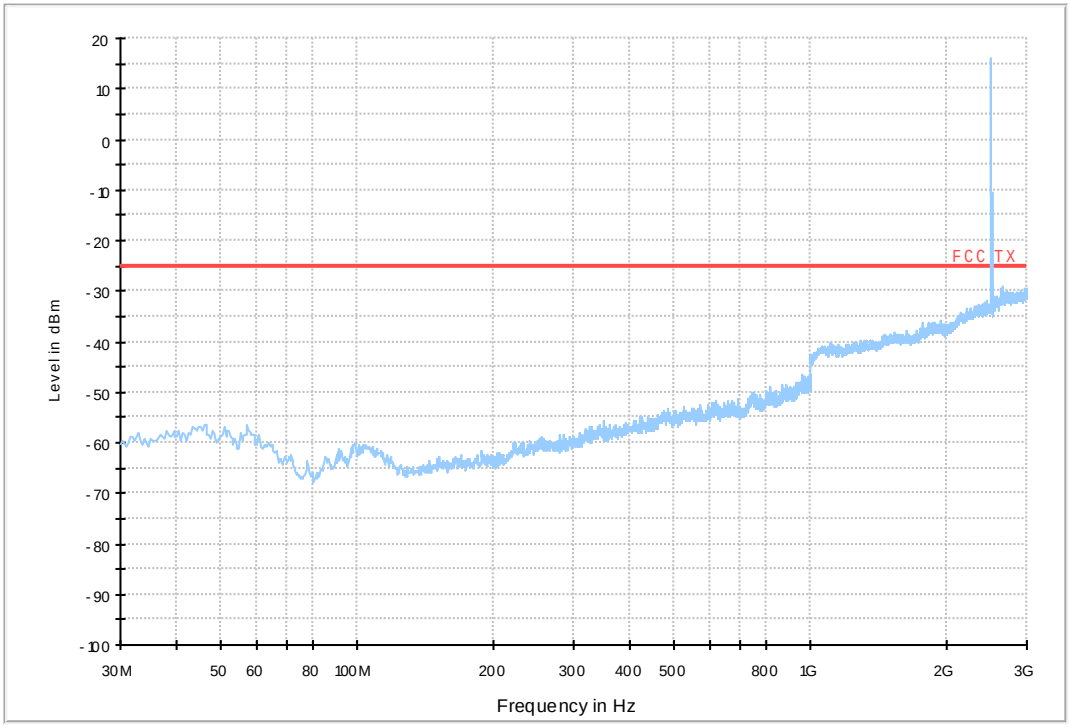
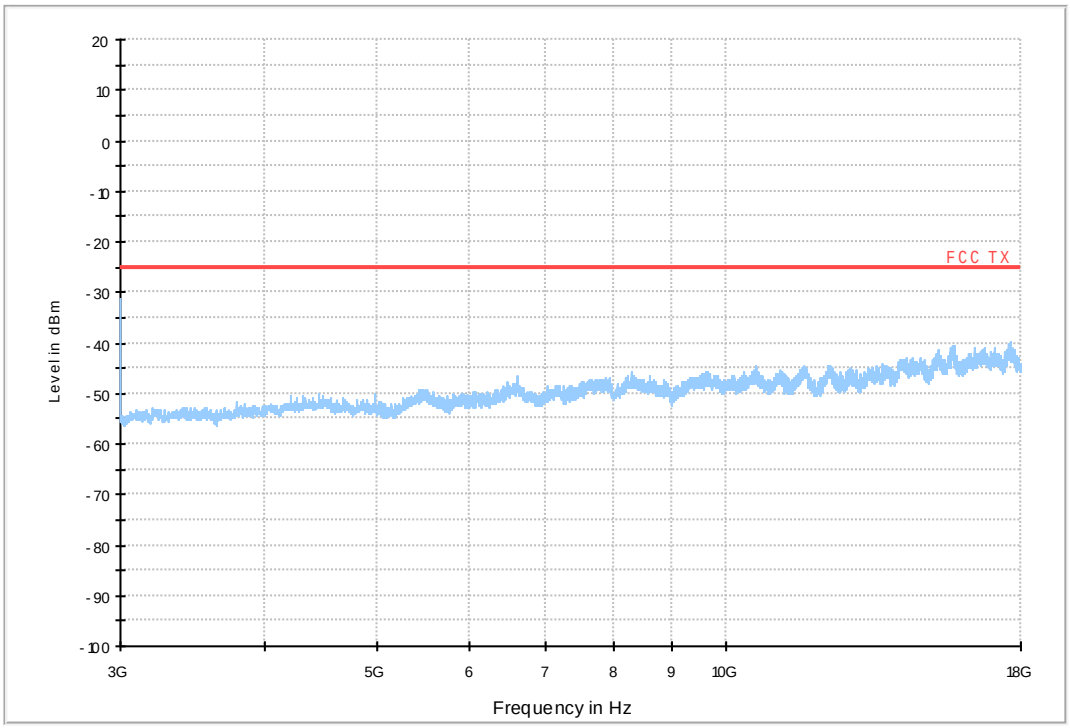
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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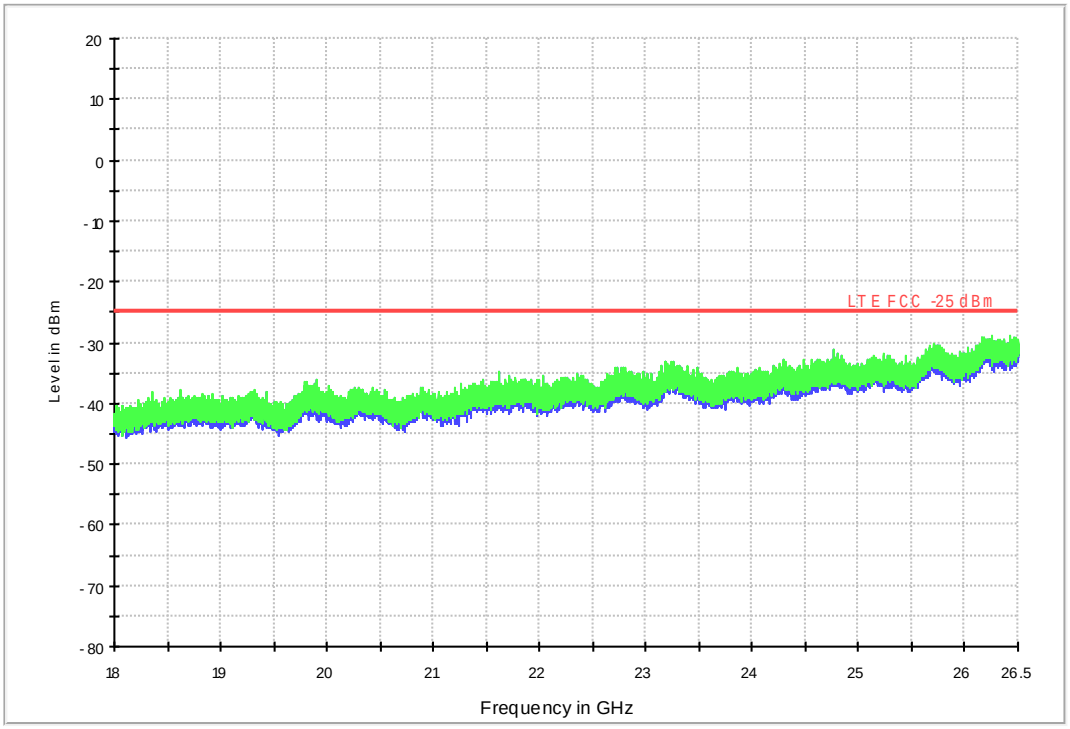
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



7.1.2.2 Test Bandwidth = 20MHz+20MHz

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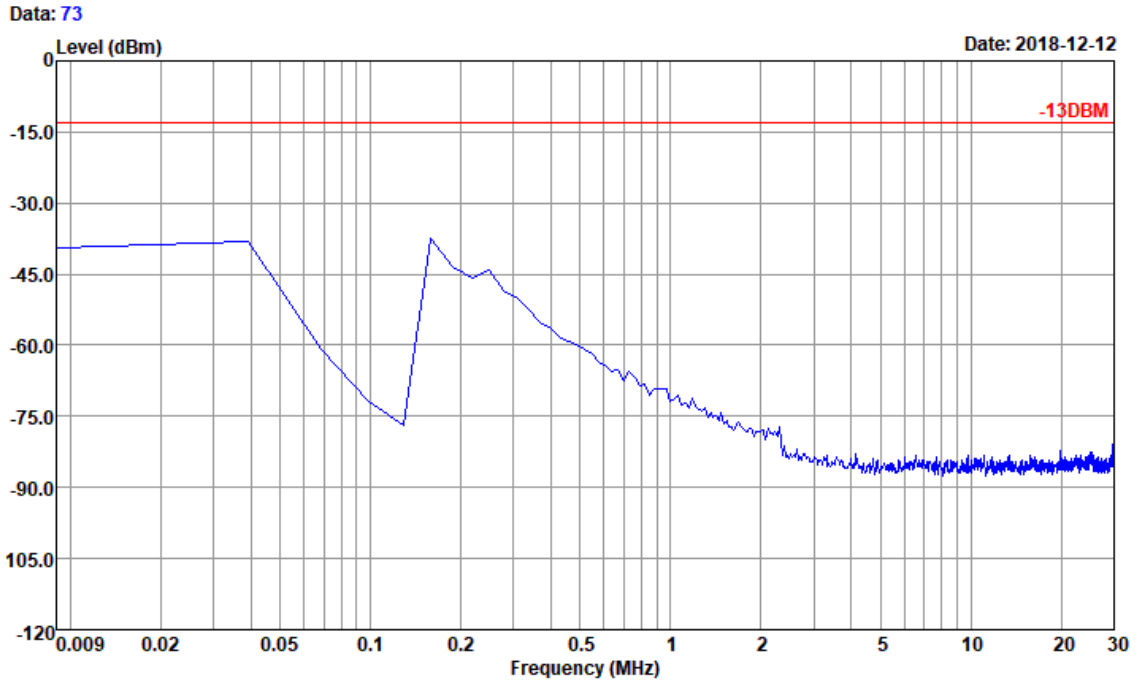


```
Site          : 03CH01-SZ
Condition     : -13DBM
              : RBW:9.000KHz VBW:30.000KHz
```


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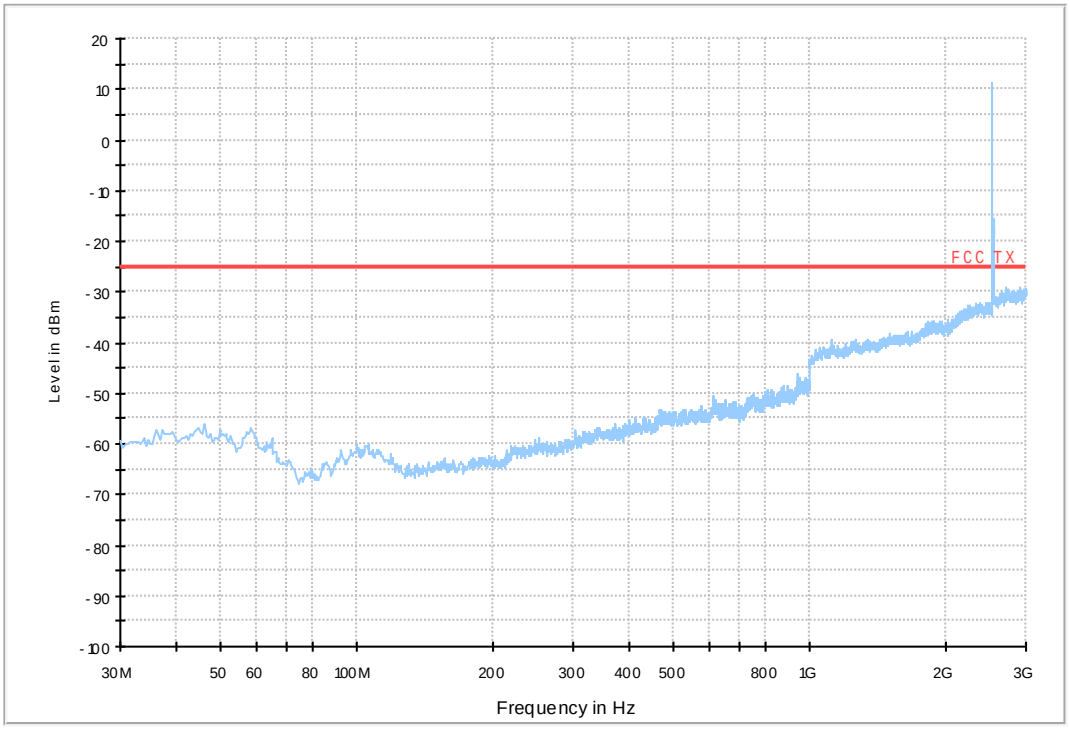
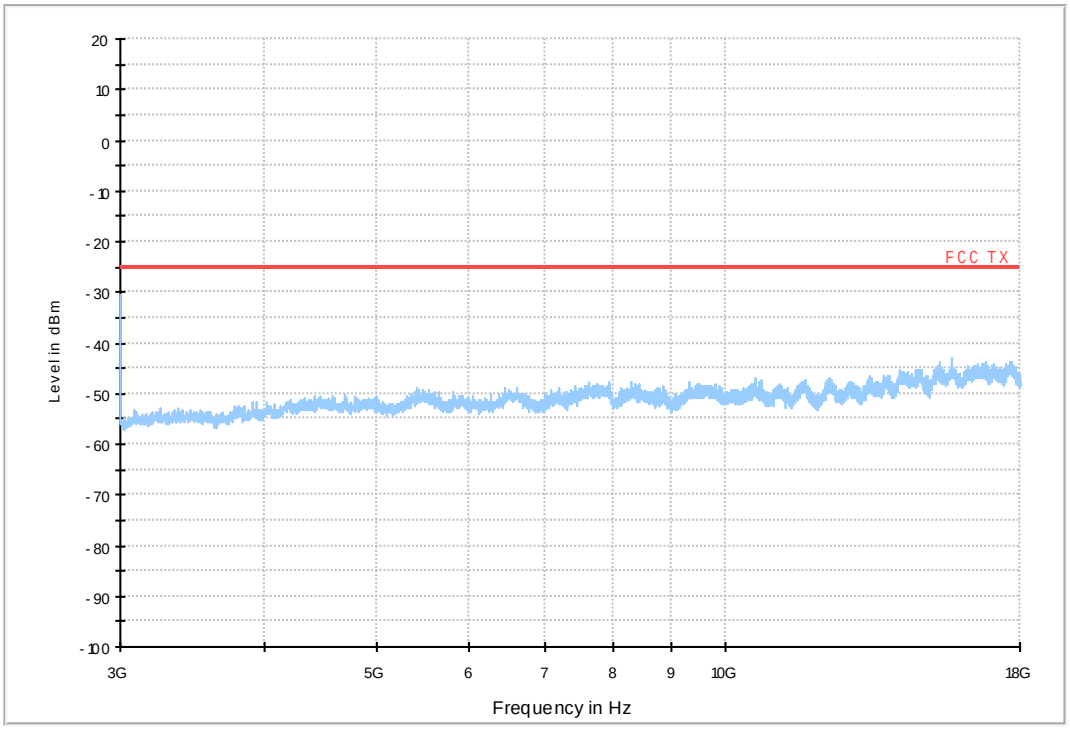
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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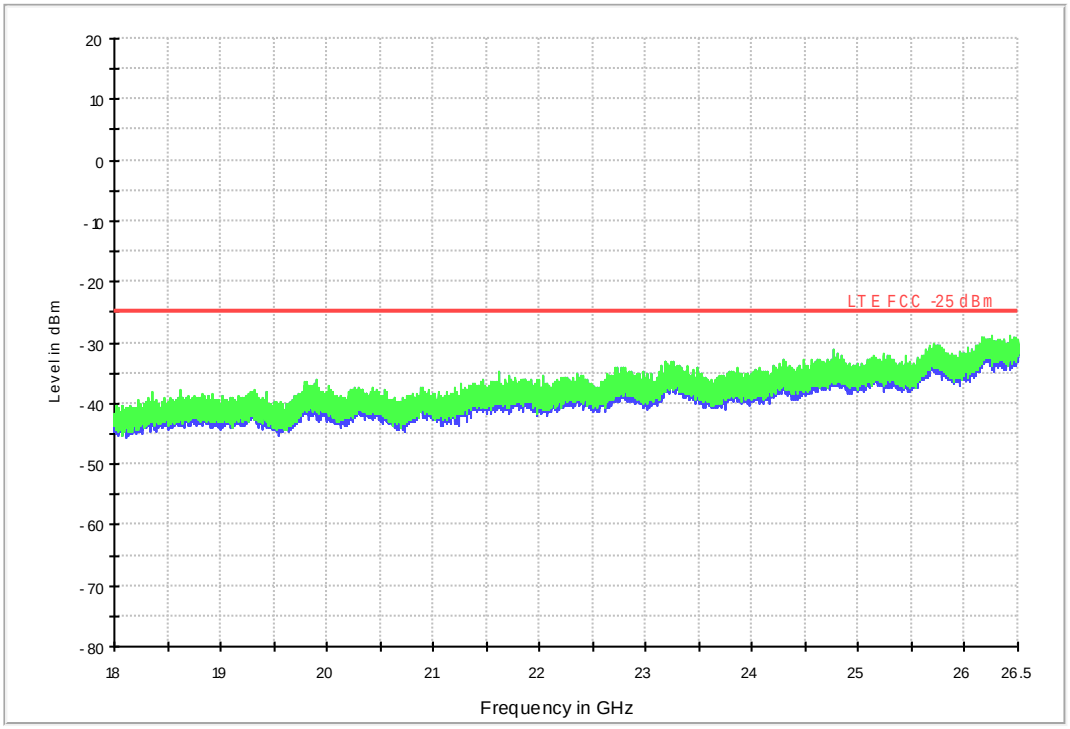
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



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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
CA_7C	LTE/TM1	15MHz +15MHz	LCH	TN	VL	-16.08000	-0.00641	PASS
					VN	-19.15000	-0.00764	PASS
					VH	-13.23000	-0.00528	PASS
			MCH	TN	VL	-14.31000	-0.00566	PASS
					VN	-10.61000	-0.00420	PASS
					VH	-15.71000	-0.00622	PASS
			HCH	TN	VL	-18.27000	-0.00717	PASS
					VN	-15.49000	-0.00608	PASS
					VH	-12.82000	-0.00503	PASS
		20MHz +20MHz	LCH	TN	VL	-13.25000	-0.00528	PASS
					VN	-12.40000	-0.00494	PASS
					VH	-13.59000	-0.00541	PASS
			MCH	TN	VL	-19.28000	-0.00764	PASS
					VN	-15.99000	-0.00633	PASS
					VH	-16.68000	-0.00661	PASS
			HCH	TN	VL	-17.14000	-0.00675	PASS
					VN	-12.36000	-0.00487	PASS
					VH	-12.26000	-0.00483	PASS
	LTE/TM2	15MHz +15MHz	LCH	TN	VL	-4.76000	-0.00190	PASS
					VN	-11.23000	-0.00448	PASS
					VH	-12.35000	-0.00493	PASS
			MCH	TN	VL	-11.73000	-0.00464	PASS
					VN	-16.97000	-0.00671	PASS
					VH	-15.61000	-0.00618	PASS
			HCH	TN	VL	-9.91000	-0.00389	PASS
					VN	-17.34000	-0.00681	PASS
					VH	-9.90000	-0.00389	PASS
		20MHz +20MHz	LCH	TN	VL	-14.06000	-0.00560	PASS
					VN	-19.51000	-0.00777	PASS
					VH	-12.33000	-0.00491	PASS
			MCH	TN	VL	-11.06000	-0.00438	PASS
					VN	-13.92000	-0.00551	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	-12.93000	-0.00512	PASS
			HCH	TN	VL	-5.85000	-0.00230	PASS
					VN	-15.36000	-0.00605	PASS
					VH	-13.05000	-0.00514	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
CA_7C	LTE/TM1	15MHz+15MHz	LCH	VN	-30	-0.39000	-0.00016	PASS
					-20	-12.65000	-0.00504	PASS
					-10	-13.80000	-0.00550	PASS
					0	-13.82000	-0.00551	PASS
					10	-14.18000	-0.00566	PASS
					20	-19.15000	-0.00764	PASS
					30	-17.78000	-0.00709	PASS
					40	-1.07000	-0.00043	PASS
					50	-1.33000	-0.00053	PASS
			MCH	VN	-30	-13.80000	-0.00546	PASS
					-20	-20.17000	-0.00798	PASS
					-10	-12.53000	-0.00496	PASS
					0	-15.76000	-0.00624	PASS
					10	-14.09000	-0.00557	PASS
					20	-10.61000	-0.00420	PASS
					30	-13.52000	-0.00535	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	-18.93000	-0.00749	PASS
					50	-12.85000	-0.00508	PASS
			HCH	VN	-30	-11.23000	-0.00441	PASS
					-20	-14.41000	-0.00566	PASS
					-10	-14.22000	-0.00558	PASS
					0	-16.48000	-0.00647	PASS
					10	-18.28000	-0.00718	PASS
					20	-15.49000	-0.00608	PASS
					30	-14.46000	-0.00568	PASS
					40	-18.71000	-0.00734	PASS
					50	-1.12000	-0.00044	PASS
		20MHz+20MHz	LCH	VN	-30	-17.75000	-0.00707	PASS
					-20	-9.71000	-0.00387	PASS
					-10	-13.23000	-0.00527	PASS
					0	-18.12000	-0.00722	PASS
					10	-9.83000	-0.00392	PASS
					20	-12.40000	-0.00494	PASS
					30	-18.90000	-0.00753	PASS
					40	-13.70000	-0.00546	PASS
					50	-11.70000	-0.00466	PASS
			MCH	VN	-30	-14.13000	-0.00560	PASS
					-20	-15.5600	-0.00616	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		
					-10	-14.25000	-0.00564	PASS
					0	-36.82000	-0.01458	PASS
					10	-12.15000	-0.00481	PASS
					20	-15.99000	-0.00633	PASS
					30	-13.83000	-0.00548	PASS
					40	-8.77000	-0.00347	PASS
					50	-16.14000	-0.00639	PASS
			HCH	VN	-30	-16.88000	-0.00665	PASS
					-20	-13.60000	-0.00535	PASS
					-10	-16.81000	-0.00662	PASS
					0	-15.62000	-0.00615	PASS
					10	-14.39000	-0.00566	PASS
					20	-12.36000	-0.00487	PASS
					30	-17.37000	-0.00684	PASS
					40	-2.03000	-0.00080	PASS
					50	-15.62000	-0.00615	PASS
	LTE/TM2	15MHz+15MHz	LCH	VN	-30	-18.24000	-0.00727	PASS
					-20	-19.14000	-0.00763	PASS
					-10	-20.20000	-0.00806	PASS
					0	-18.38000	-0.00733	PASS
					10	-17.7000	-0.00706	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		
					20	-11.23000	-0.00448	PASS
					30	-17.60000	-0.00702	PASS
					40	-1.36000	-0.00054	PASS
					50	-15.64000	-0.00624	PASS
			MCH	VN	-30	-12.59000	-0.00498	PASS
					-20	-16.67000	-0.00660	PASS
					-10	-14.12000	-0.00559	PASS
					0	-19.01000	-0.00752	PASS
					10	-19.41000	-0.00768	PASS
					20	-16.97000	-0.00671	PASS
					30	-14.71000	-0.00582	PASS
					40	-15.54000	-0.00615	PASS
					50	-17.84000	-0.00706	PASS
			HCH	VN	-30	-18.97000	-0.00745	PASS
					-20	-20.46000	-0.00803	PASS
					-10	-17.17000	-0.00674	PASS
					0	-17.52000	-0.00688	PASS
					10	-19.03000	-0.00747	PASS
					20	-17.34000	-0.00681	PASS
					30	-14.55000	-0.00571	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	-18.00000	-0.00707	PASS
					50	-16.49000	-0.00647	PASS
		20MHz+20MHz	LCH	VN	-30	-16.59000	-0.00661	PASS
					-20	-17.90000	-0.00713	PASS
					-10	-16.32000	-0.00650	PASS
					0	-15.03000	-0.00599	PASS
					10	-19.56000	-0.00779	PASS
					20	-19.51000	-0.00777	PASS
					30	-24.06000	-0.00959	PASS
					40	-21.40000	-0.00853	PASS
					50	-15.48000	-0.00617	PASS
			MCH	VN	-30	-19.78000	-0.00783	PASS
					-20	-11.70000	-0.00463	PASS
					-10	-18.88000	-0.00748	PASS
					0	-5.69000	-0.00225	PASS
					10	-13.63000	-0.00540	PASS
					20	-13.92000	-0.00551	PASS
					30	-18.42000	-0.00729	PASS
					40	-18.10000	-0.00717	PASS
					50	-19.70000	-0.00780	PASS
			HCH	VN	-30	-14.6800	-0.00578	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		
					-20	-13.38000	-0.00527	PASS
					-10	-17.37000	-0.00684	PASS
					0	-19.20000	-0.00756	PASS
					10	-16.54000	-0.00651	PASS
					20	-15.36000	-0.00605	PASS
					30	-13.45000	-0.00529	PASS
					40	-11.34000	-0.00446	PASS
					50	-16.92000	-0.00666	PASS

END

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