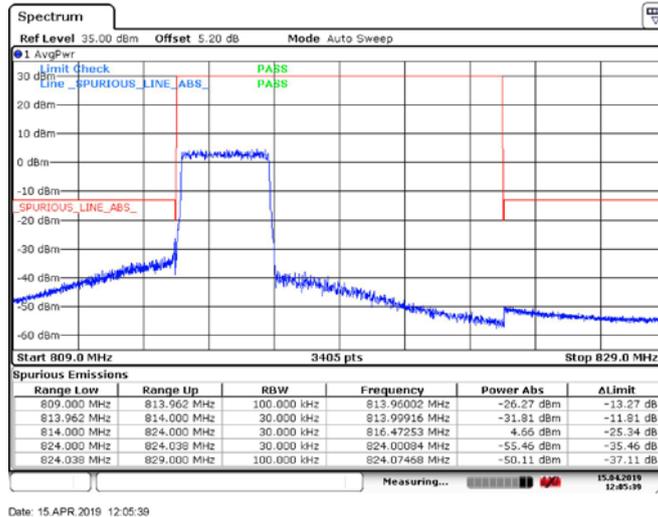


Date: 15.APR.2019 12:03:56

Band26\_3MHz\_16QAM\_26705\_15RB#0

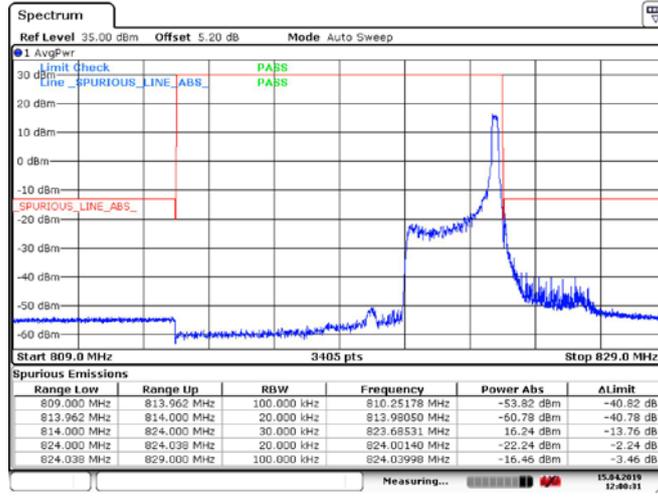


Date: 15.APR.2019 12:05:39

Band26\_3MHz\_16QAM\_26775\_1RB#14

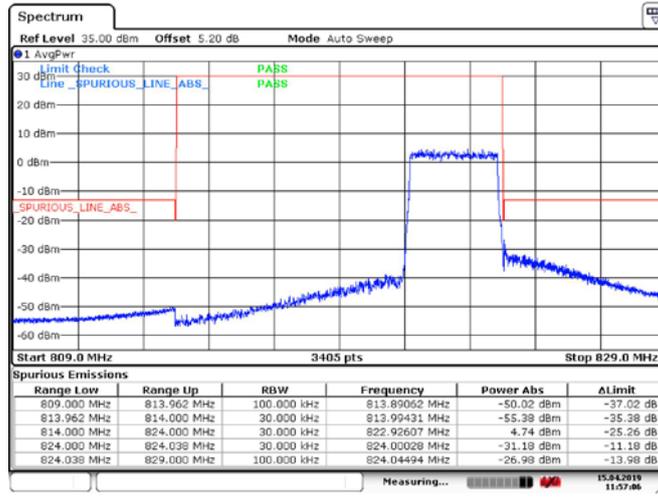


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Date: 15.APR.2019 12:00:31

Band26\_3MHz\_16QAM\_26775\_15RB#0

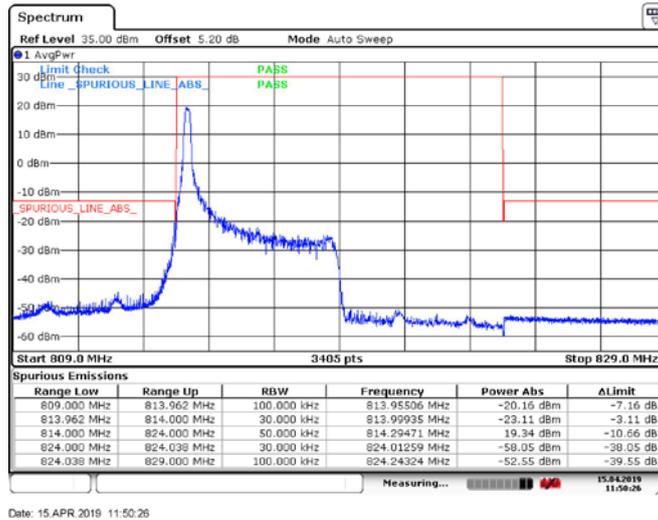


Date: 15.APR.2019 11:57:06

Band26\_5MHz\_QPSK\_26715\_1RB#0

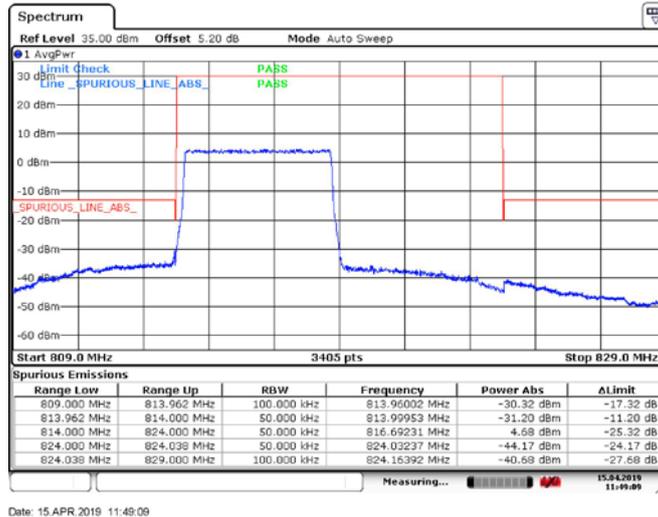


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Date: 15.APR.2019 11:50:26

Band26\_5MHz\_QPSK\_26715\_25RB#0

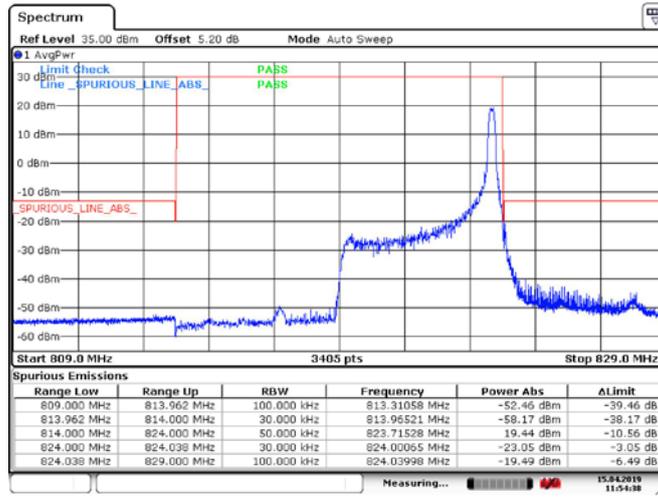


Date: 15.APR.2019 11:49:09

Band26\_5MHz\_QPSK\_26765\_1RB#24

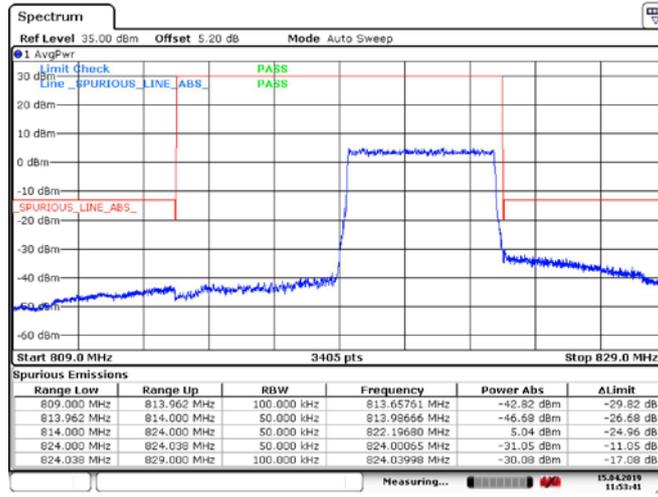


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Date: 15.APR.2019 11:54:38

Band26\_5MHz\_QPSK\_26765\_25RB#0

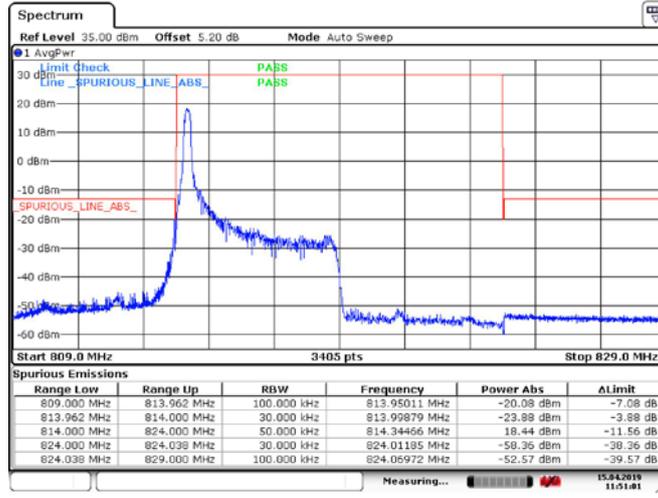


Date: 15.APR.2019 11:53:41

Band26\_5MHz\_64QAM\_26715\_1RB#0

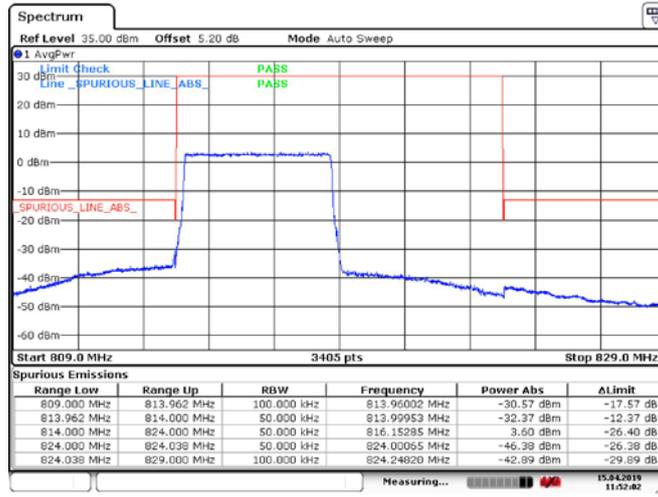


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Date: 15.APR.2019 11:51:01

Band26\_5MHz\_64QAM\_26715\_25RB#0

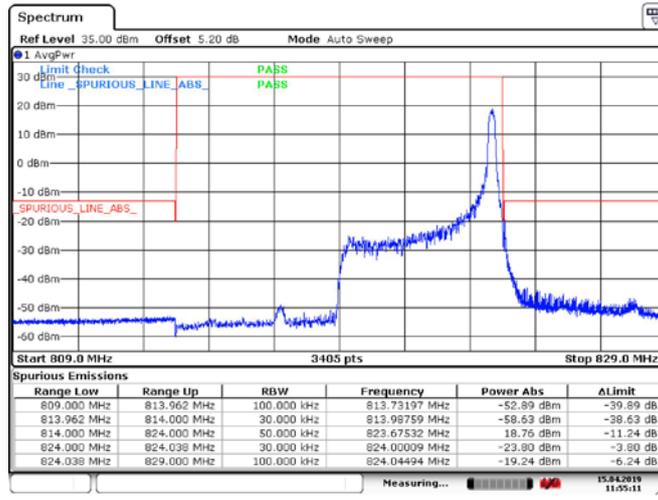


Date: 15.APR.2019 11:52:02

Band26\_5MHz\_64QAM\_26765\_1RB#24

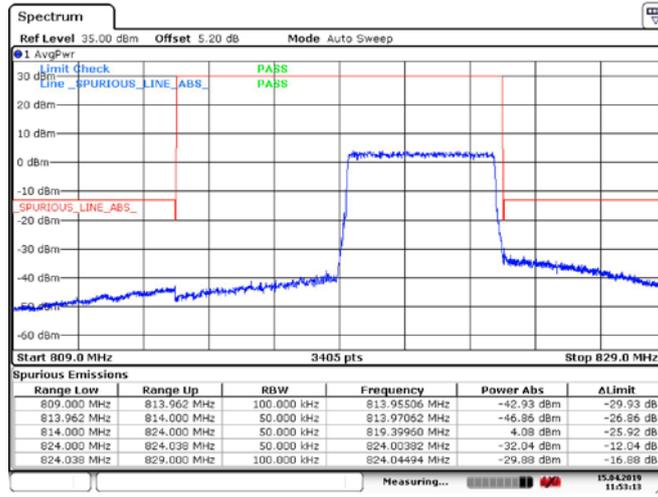


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Date: 15.APR.2019 11:55:11

Band26\_5MHz\_64QAM\_26765\_25RB#0

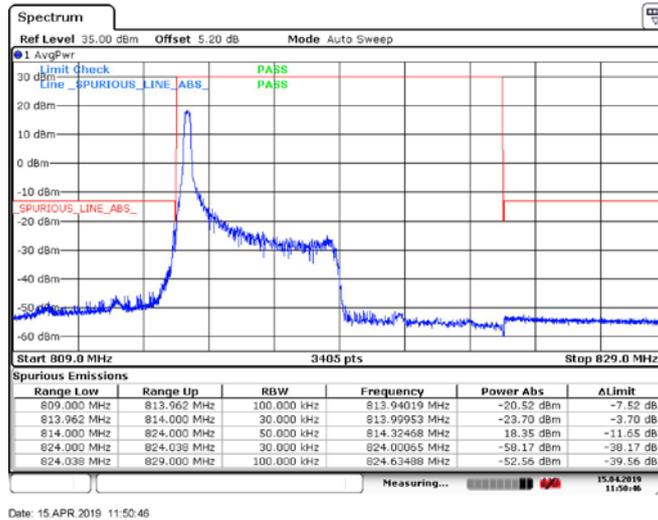


Date: 15.APR.2019 11:53:13

Band26\_5MHz\_16QAM\_26715\_1RB#0

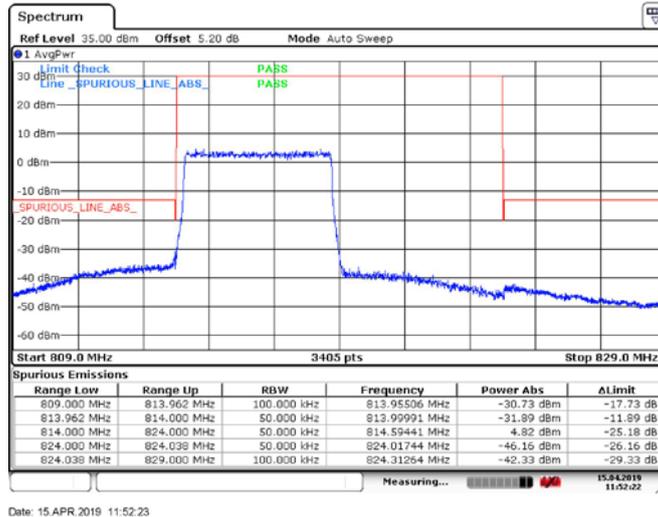


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Date: 15.APR.2019 11:50:46

**Band26\_5MHz\_16QAM\_26715\_25RB#0**

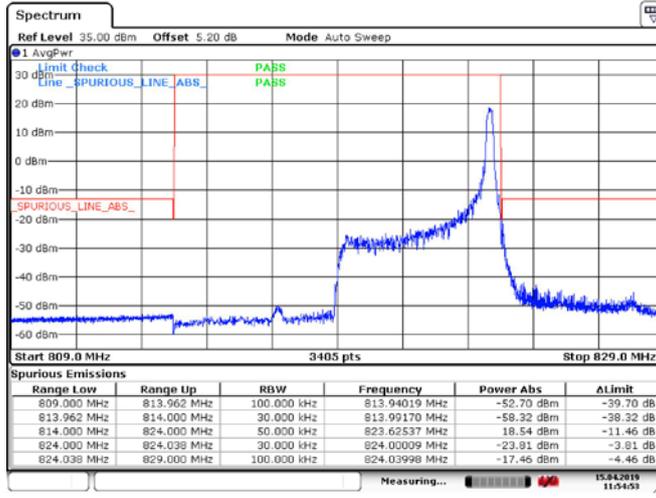


Date: 15.APR.2019 11:52:23

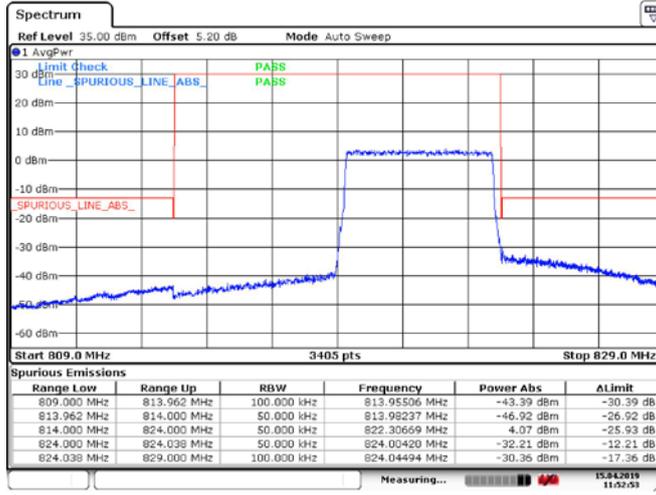
**Band26\_5MHz\_16QAM\_26765\_1RB#24**



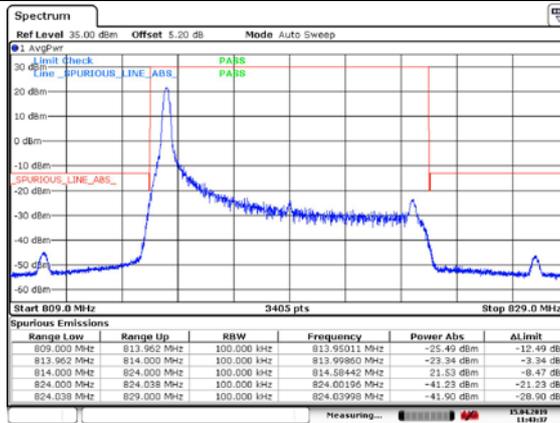
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Band26\_5MHz\_16QAM\_26765\_25RB#0



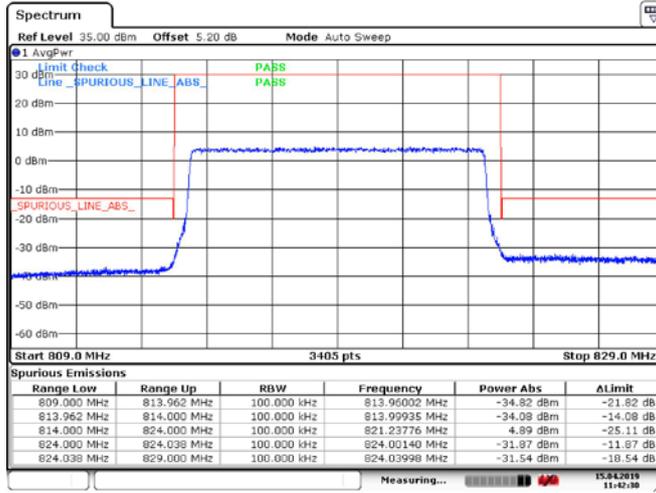
Band26\_10MHz\_QPSK\_26740\_1RB#0



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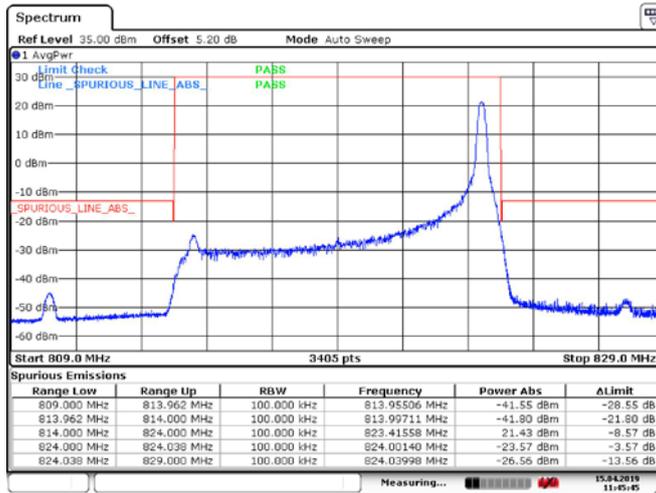


**Band26\_10MHz\_QPSK\_26740\_50RB#0**



Date: 15.APR.2019 11:42:31

**Band26\_10MHz\_QPSK\_26740\_1RB#49**



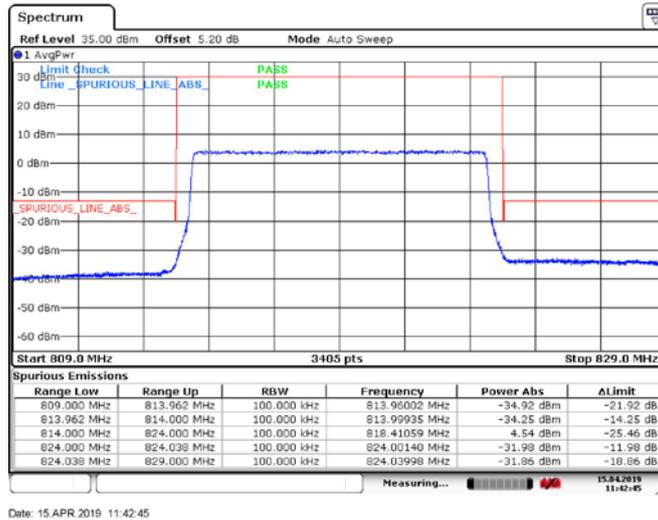
Date: 15.APR.2019 11:45:45

**Band26\_10MHz\_QPSK\_26740\_50RB#0**



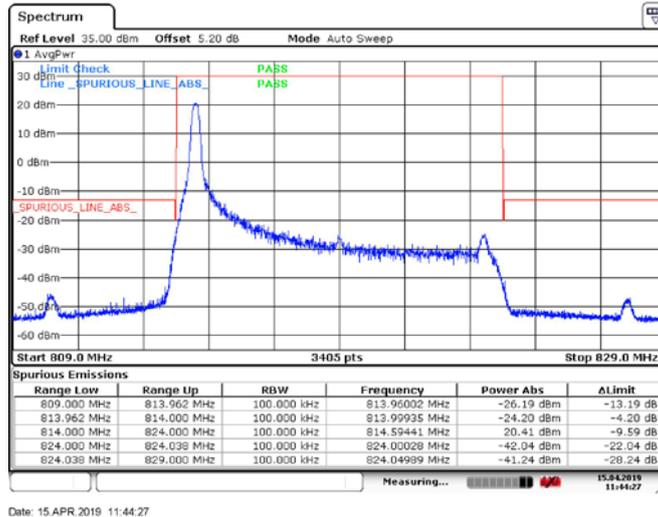
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Date: 15.APR.2019 11:42:45

Band26\_10MHz\_64QAM\_26740\_1RB#0

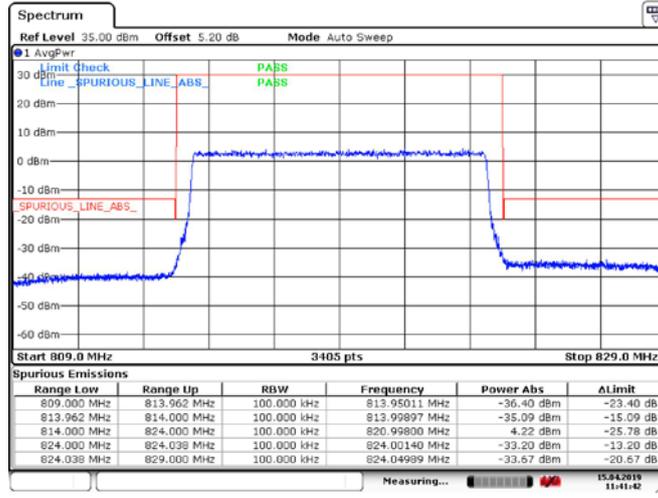


Date: 15.APR.2019 11:44:27

Band26\_10MHz\_64QAM\_26740\_50RB#0

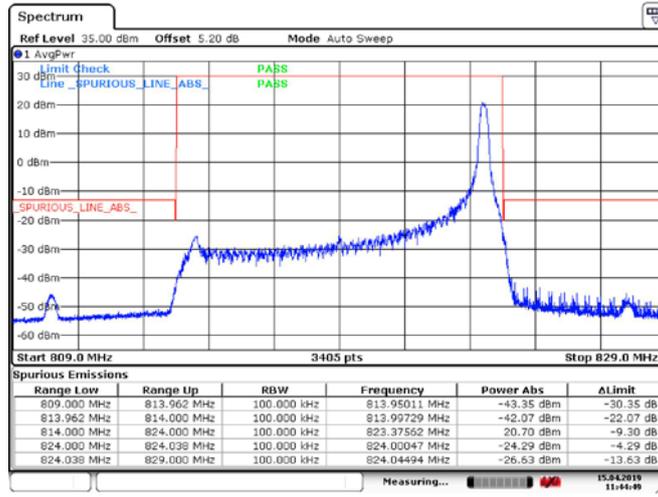


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Date: 15.APR.2019 11:41:43

Band26\_10MHz\_64QAM\_26740\_1RB#49

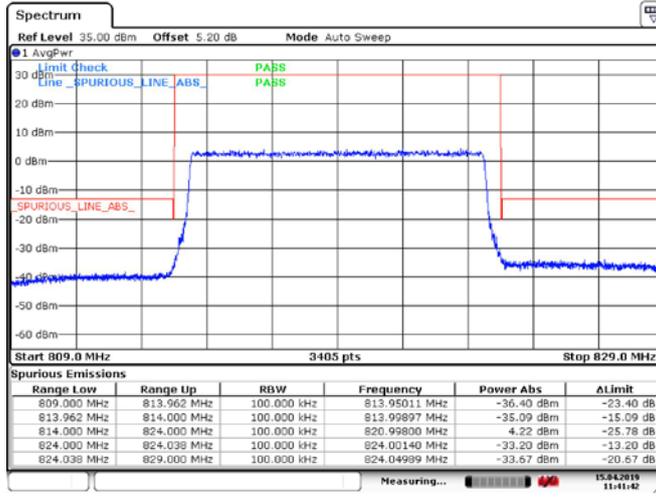


Date: 15.APR.2019 11:44:50

Band26\_10MHz\_64QAM\_26740\_50RB#0

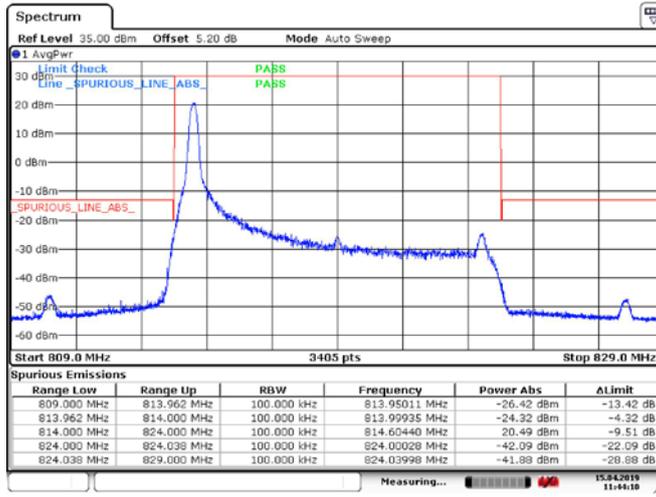


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Date: 15.APR.2019 11:41:43

Band26\_10MHz\_16QAM\_26740\_1RB#0

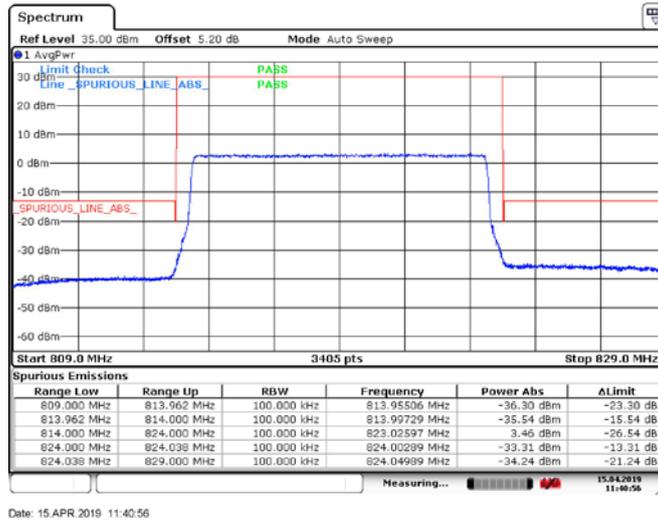


Date: 15.APR.2019 11:44:11

Band26\_10MHz\_16QAM\_26740\_50RB#0

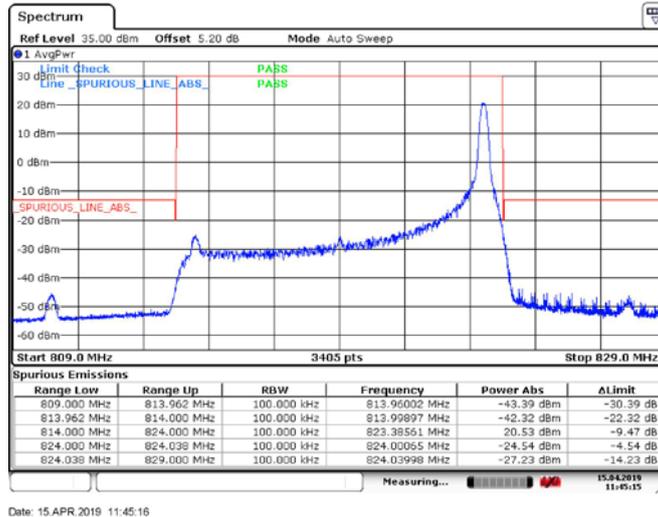


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Date: 15.APR.2019 11:40:56

Band26\_10MHz\_16QAM\_26740\_1RB#49

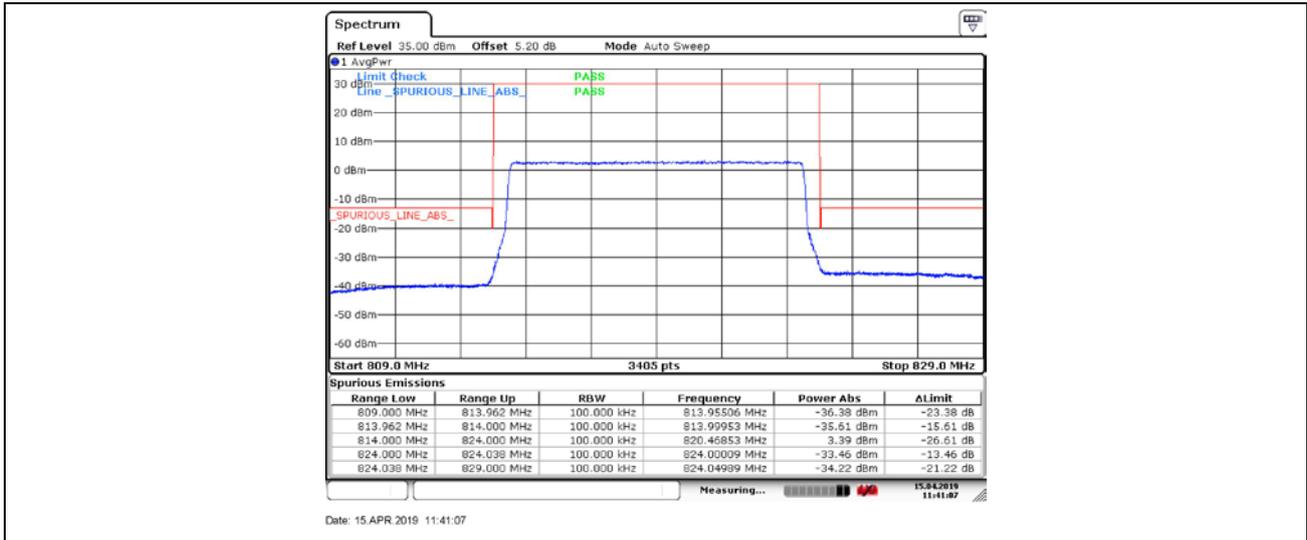


Date: 15.APR.2019 11:45:16

Band26\_10MHz\_16QAM\_26740\_50RB#0



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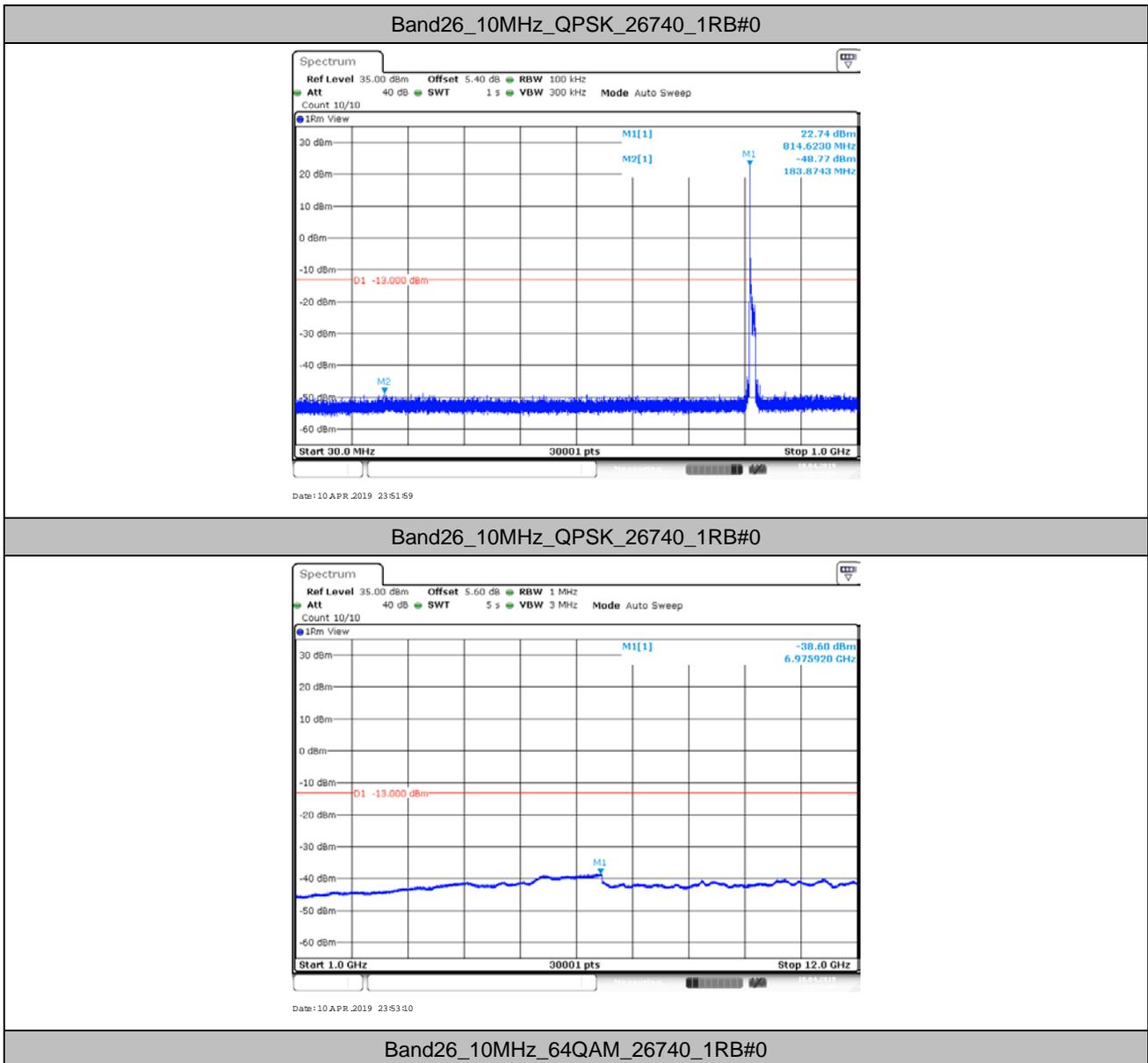
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## 6. Spurious Emission at Antenna Terminal

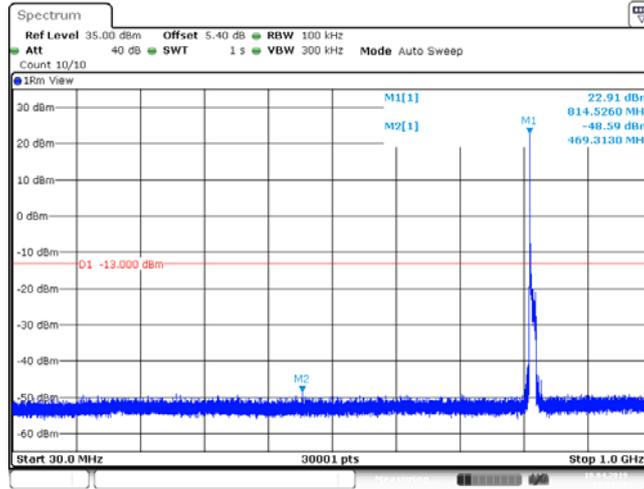
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

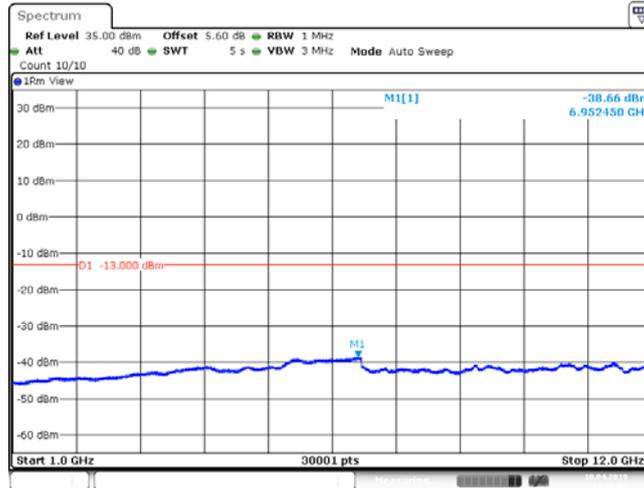


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Date: 10 APR. 2019 23:54:59

**Band26\_10MHz\_64QAM\_26740\_1RB#0**

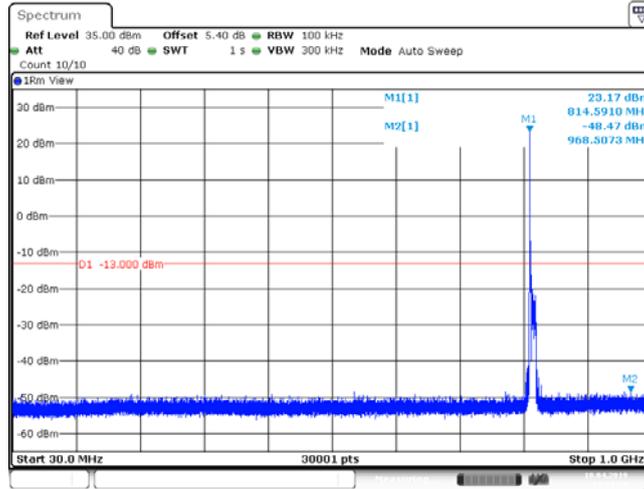


Date: 10 APR. 2019 23:56:09

**Band26\_10MHz\_16QAM\_26740\_1RB#0**

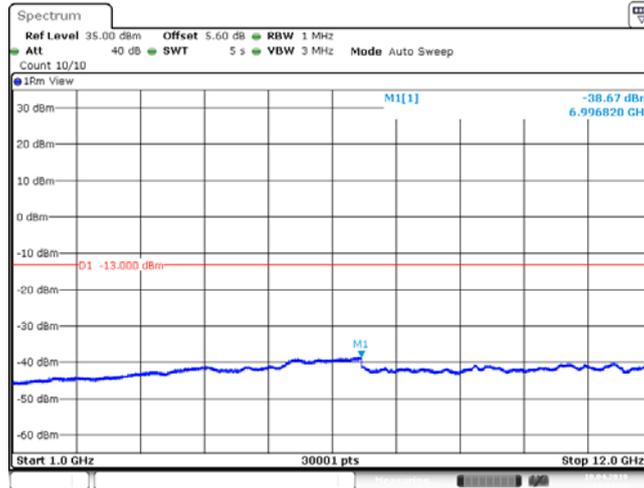


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Date: 10 APR. 2019 23:53:29

**Band26\_10MHz\_16QAM\_26740\_1RB#0**



Date: 10 APR. 2019 23:54:40



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## 7. Field Strength of Spurious Radiation

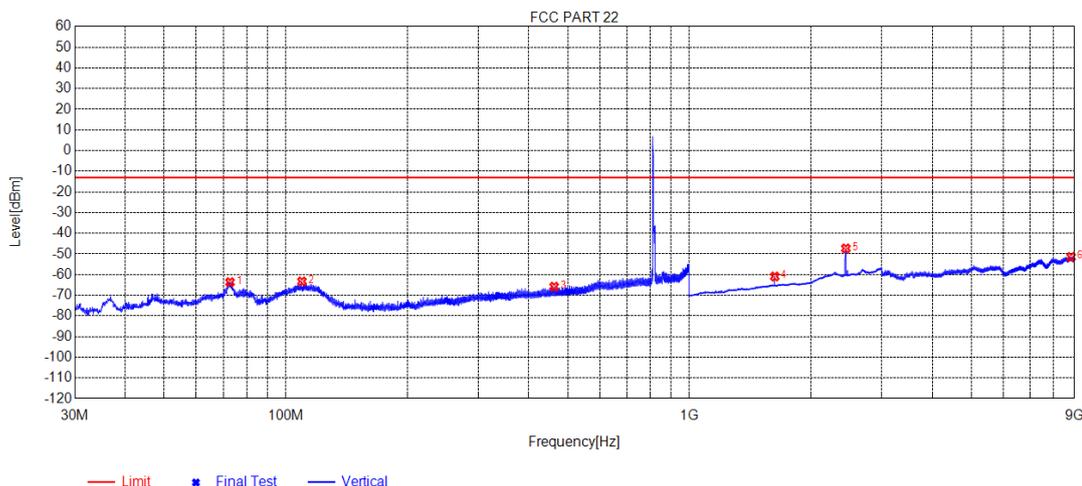
### 7.1. Main Antenna

#### 7.1.1. Test BAND = LTE Band 26

##### 7.1.1.1. Test Mode =LTE/TM1 10MHz

##### 7.1.1.1.1. Test Channel = MCH

##### 7.1.1.1.1.1. Horizontal



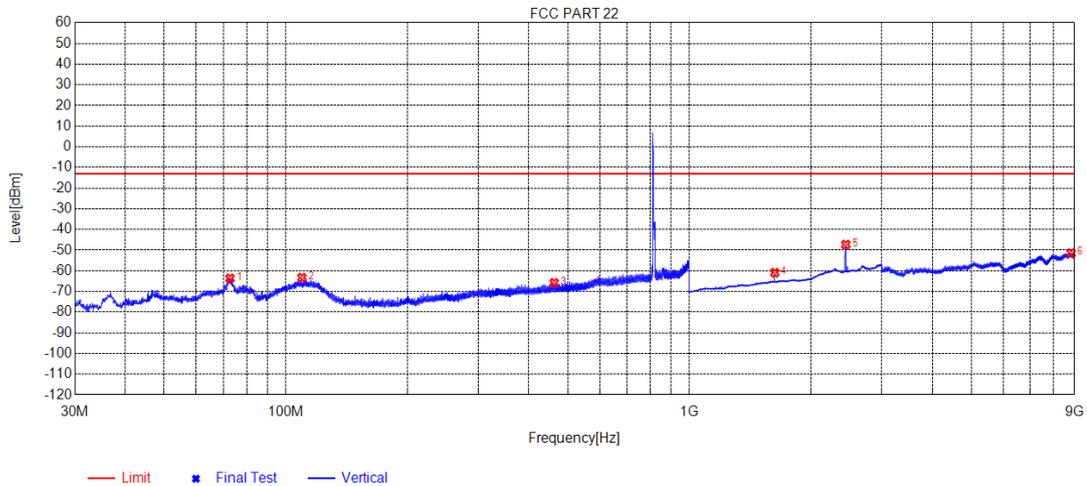
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	72.7306	-64.79	-63.67	-13.00	50.67	1.12	Vertical
2	109.6410	-69.62	-63.29	-13.00	50.29	6.33	Vertical
3	462.4476	-70.14	-65.84	-13.00	52.84	4.30	Vertical
4	1629.325	-65.52	-60.91	-13.00	47.91	4.61	Vertical
5	2443.888	-56.55	-47.31	-13.00	34.31	9.24	Vertical
6	8840.194	-77.67	-51.45	-13.00	38.45	26.22	Vertical



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### 7.1.1.1.1.2. Vertical



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	72.7306	-64.79	-63.67	-13.00	50.67	1.12	Vertical
2	109.6410	-69.62	-63.29	-13.00	50.29	6.33	Vertical
3	462.4476	-70.14	-65.84	-13.00	52.84	4.30	Vertical
4	1629.325	-65.52	-60.91	-13.00	47.91	4.61	Vertical
5	2443.888	-56.55	-47.31	-13.00	34.31	9.24	Vertical
6	8840.194	-77.67	-51.45	-13.00	38.45	26.22	Vertical



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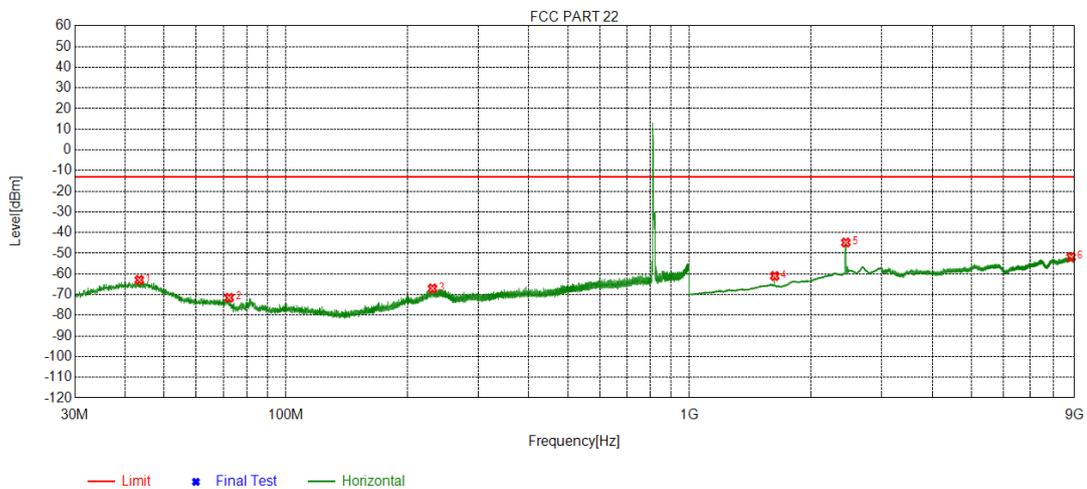
## 7.2. Secondary Antenna

### 7.2.1. Test BAND = LTE Band 26

#### 7.2.1.1. Test Mode =LTE/TM1 10MHz

##### 7.2.1.1.1. Test Channel = MCH

##### 7.2.1.1.1.1. Horizontal



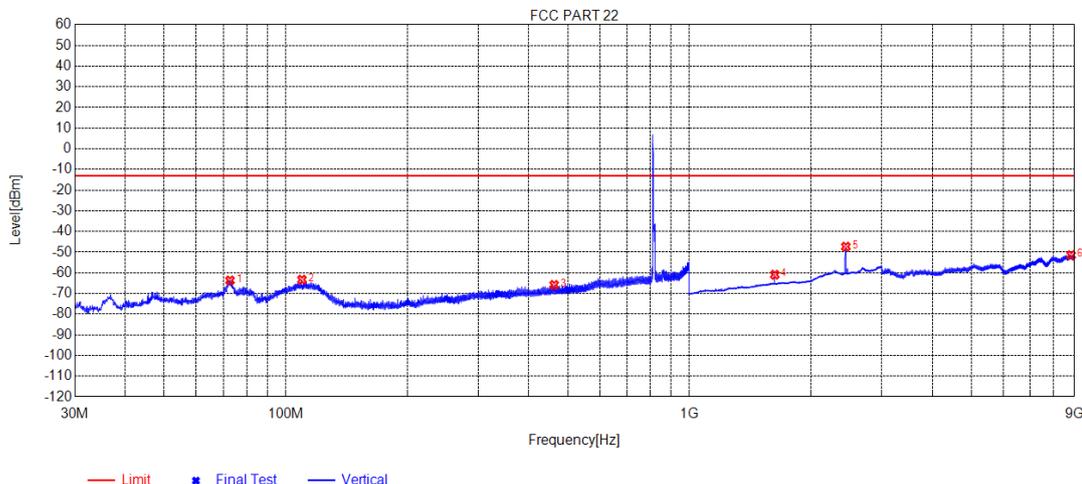
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.3382	-69.84	-62.91	-13.00	49.91	6.93	Horizontal
2	72.3911	-68.08	-71.54	-13.00	58.54	-3.46	Horizontal
3	230.9941	-69.86	-67.03	-13.00	54.03	2.83	Horizontal
4	1628.925	-65.24	-60.99	-13.00	47.99	4.25	Horizontal
5	2443.888	-54.99	-44.80	-13.00	31.80	10.19	Horizontal
6	8841.194	-77.85	-51.87	-13.00	38.87	25.98	Horizontal



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### 7.2.1.1.1.2. Vertical



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	72.7306	-64.79	-63.67	-13.00	50.67	1.12	Vertical
2	109.6410	-69.62	-63.29	-13.00	50.29	6.33	Vertical
3	462.4476	-70.14	-65.84	-13.00	52.84	4.30	Vertical
4	1629.325	-65.52	-60.91	-13.00	47.91	4.61	Vertical
5	2443.888	-56.55	-47.31	-13.00	34.31	9.24	Vertical
6	8840.194	-77.67	-51.45	-13.00	38.45	26.22	Vertical

**Remark:**

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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 Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	2.83	0.003455	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	3.05	0.003724	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	3.06	0.003736	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	VL	NT	3.83	0.004676	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	VN	NT	3.59	0.004383	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	VH	NT	3.60	0.004396	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	3.30	0.004029	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	3.65	0.004457	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	3.08	0.003761	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	4.18	0.005104	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	3.48	0.004249	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	3.19	0.003895	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	2.99	0.003651	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	3.16	0.003858	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	3.12	0.003810	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	3.25	0.003968	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	3.30	0.004029	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	-30	3.23	0.003944	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	-20	3.75	0.004579	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	0	3.60	0.004396	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	10	3.45	0.004212	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	20	3.53	0.004310	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	30	2.99	0.003651	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	40	3.81	0.004652	±2.5	PASS
Band26	10MHz	64QAM	26740	50RB#0	NV	50	4.15	0.005067	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	3.15	0.003846	±2.5	PASS



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Band26	10MHz	16QAM	26740	50RB#0	NV	-20	3.55	0.004335	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	4.33	0.005287	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	3.45	0.004212	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	3.50	0.004274	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	3.36	0.004103	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	3.36	0.004103	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	3.65	0.004457	±2.5	PASS

The End



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