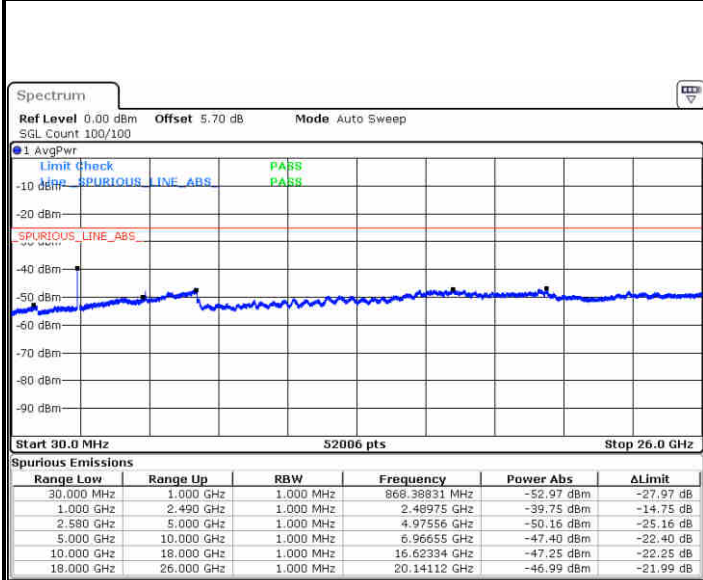




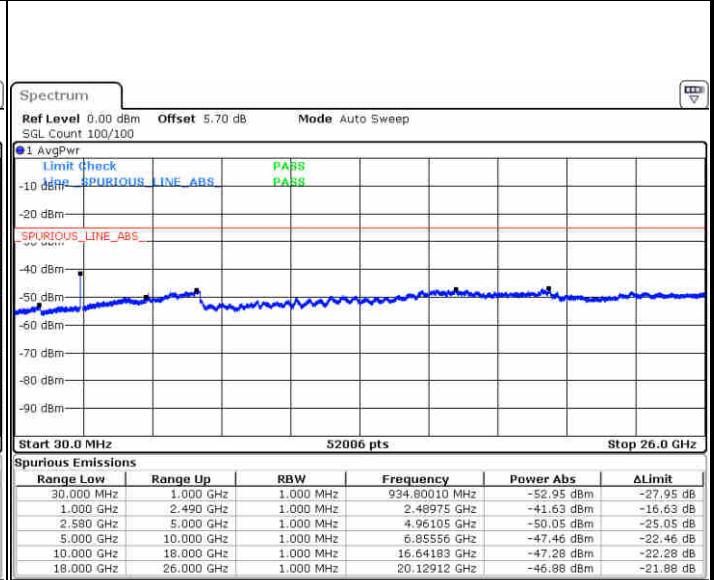
LTE Band 7 / 20MHz

Middle Channel / QPSK



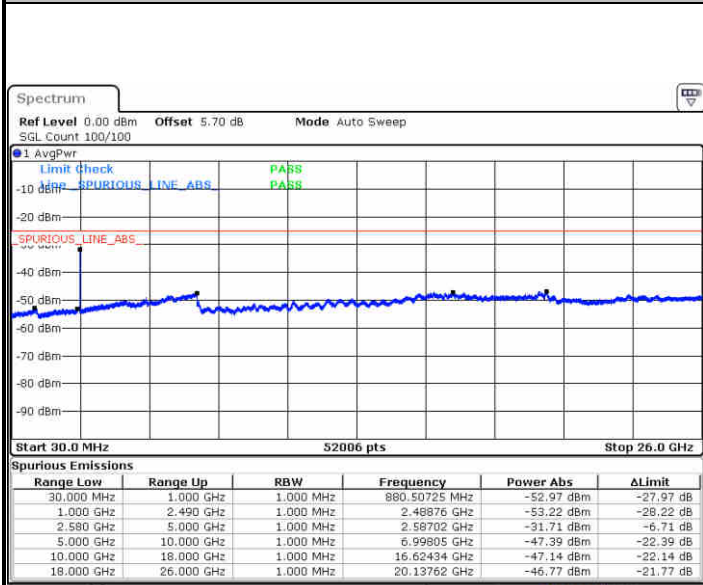
Date: 28 APR 2019 18:11:58

Middle Channel / 16QAM



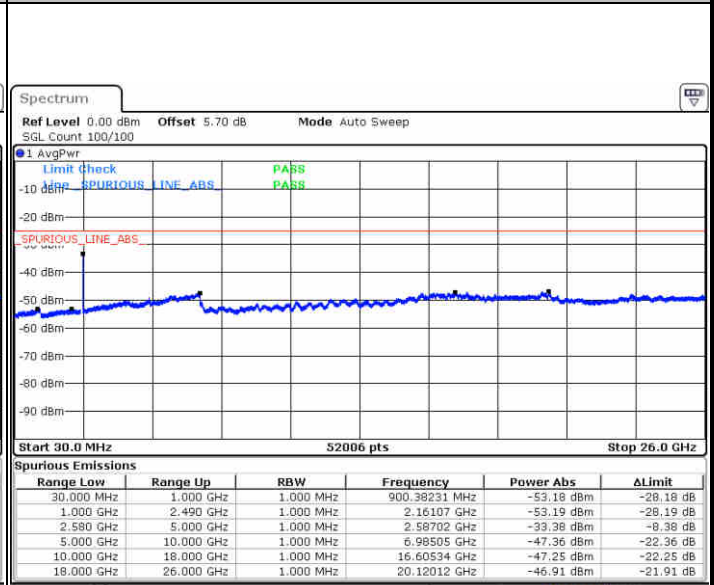
Date: 28 APR 2019 18:11:04

Highest Channel / QPSK



Date: 28 APR 2019 18:12:51

Highest Channel / 16QAM



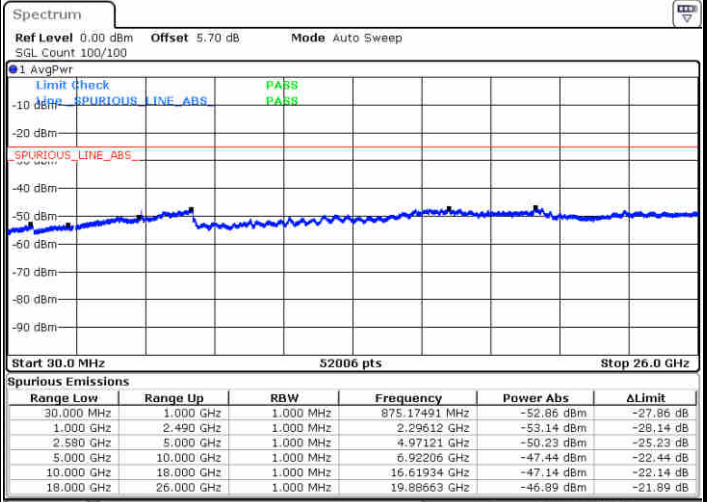
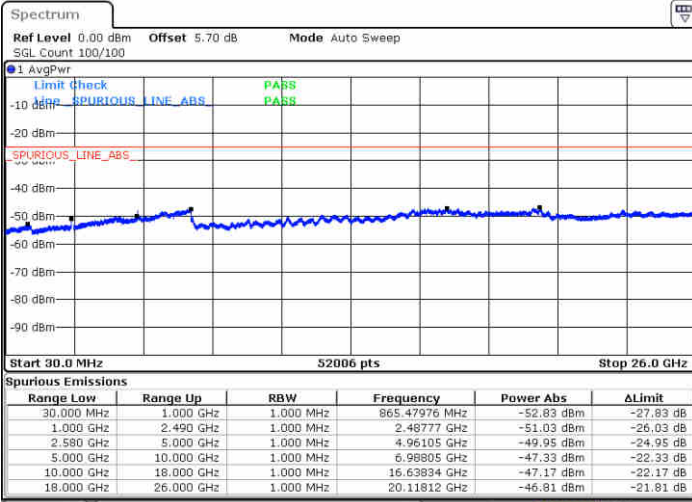
Date: 28 APR 2019 18:13:44



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

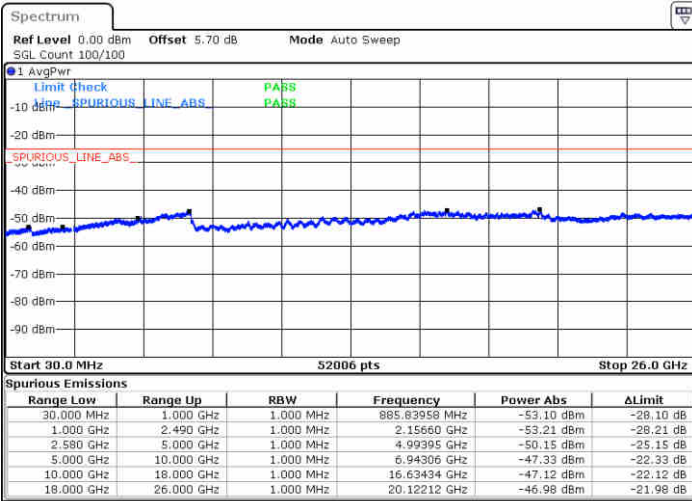
Middle Channel / 64QAM



Date: 26 APR 2019 18:15:38

Date: 26 APR 2019 18:16:31

Highest Channel / 64QAM

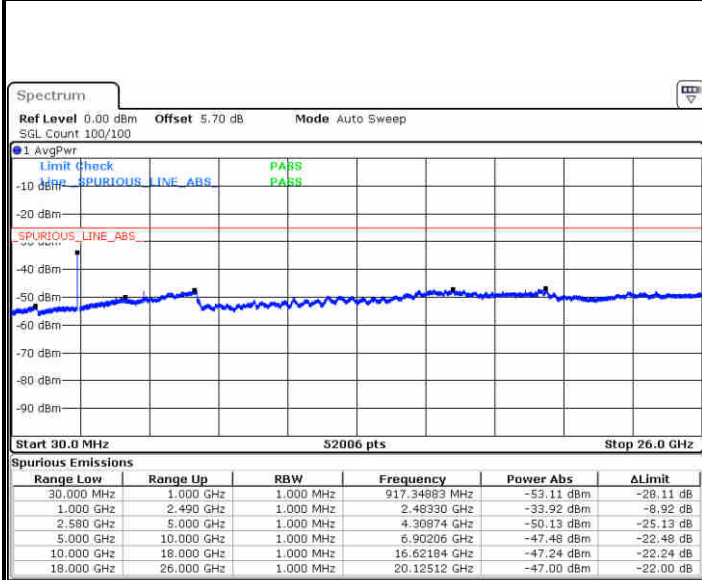


Date: 26 APR 2019 18:17:25



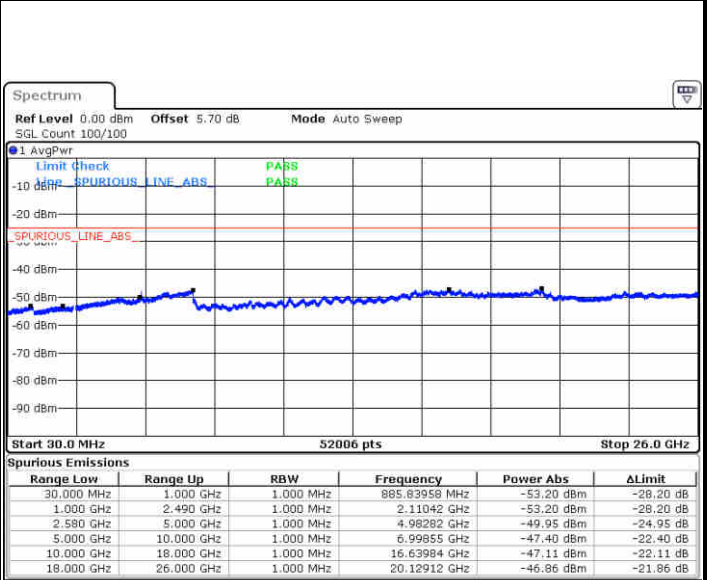
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



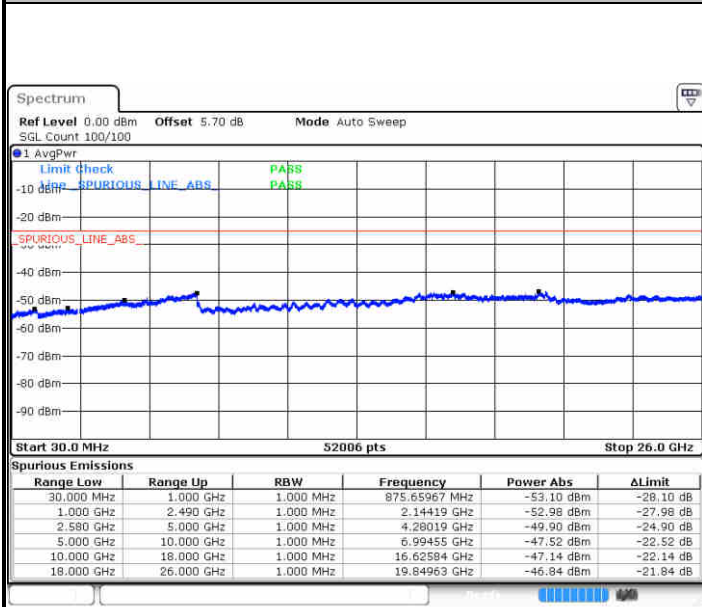
Date: 26 APR 2019 18:23:48

Middle Channel / 64QAM



Date: 26 APR 2019 18:24:41

Highest Channel / 64QAM



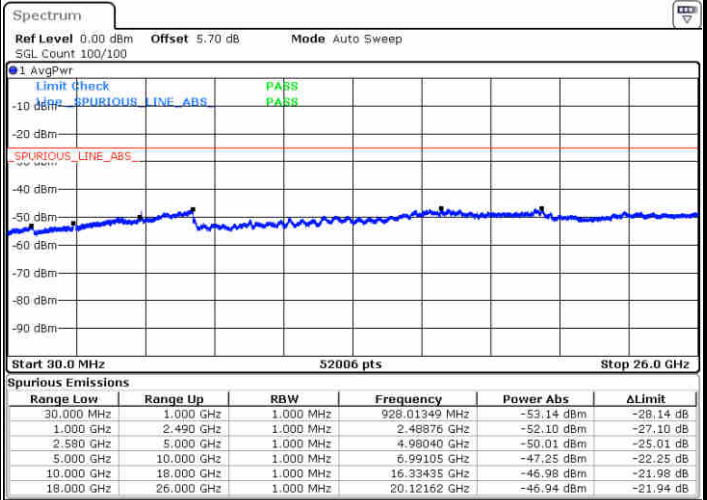
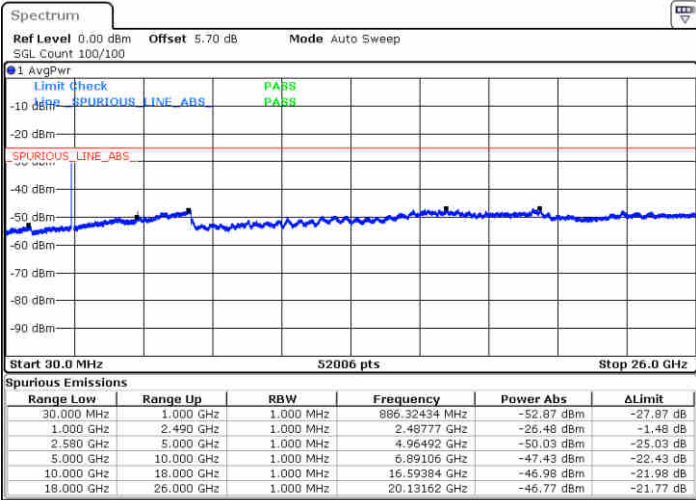
Date: 26 APR 2019 18:25:35



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

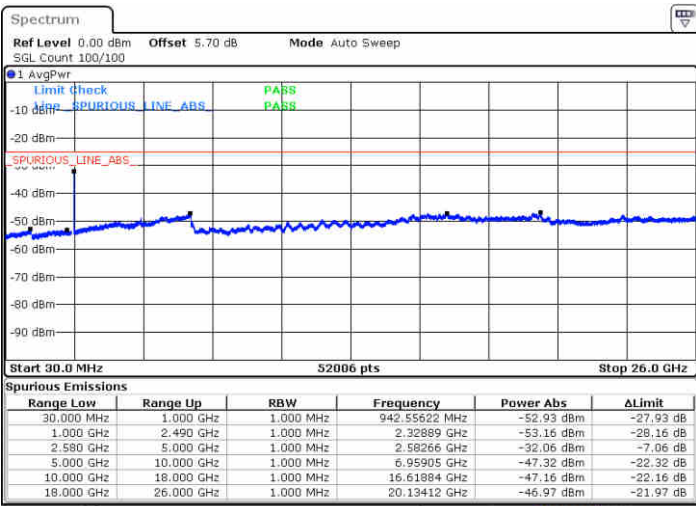
Middle Channel / 64QAM



Date: 26 APR 2019 18:36:25

Date: 26 APR 2019 18:37:19

Highest Channel / 64QAM



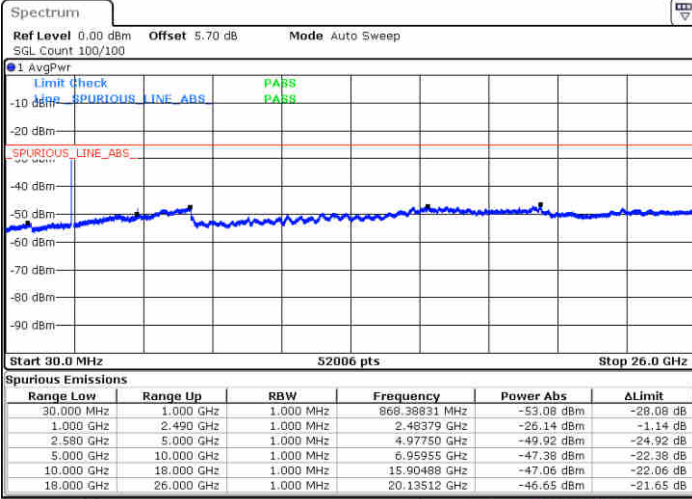
Date: 26 APR 2019 18:38:12



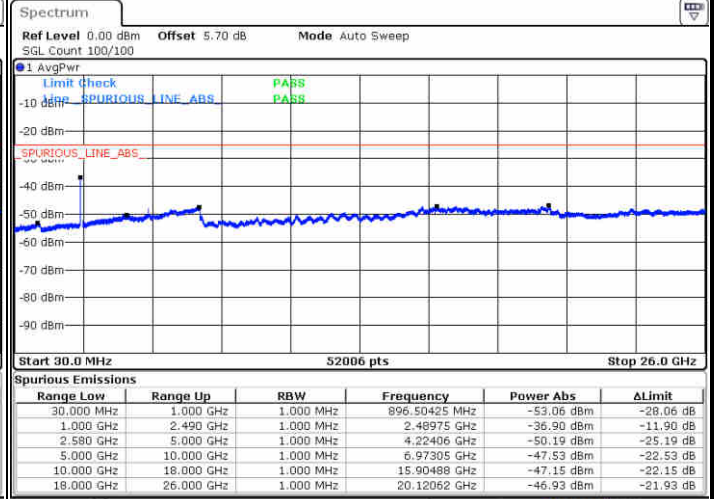
LTE Band 7 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

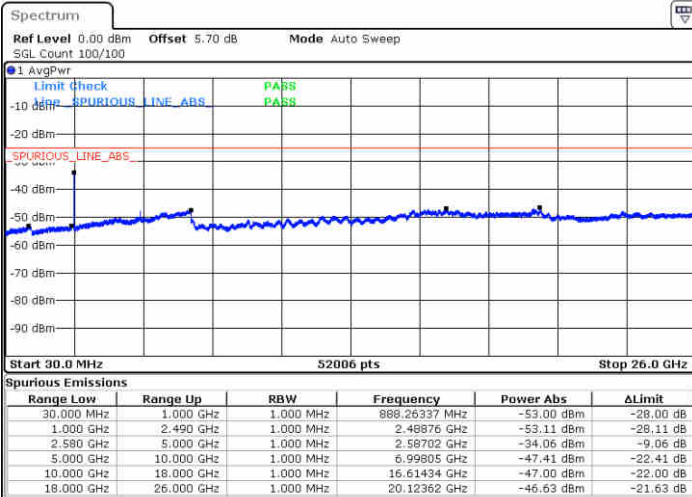


Date: 26 APR 2019 18:44:34



Date: 26 APR 2019 18:45:28

Highest Channel / 64QAM

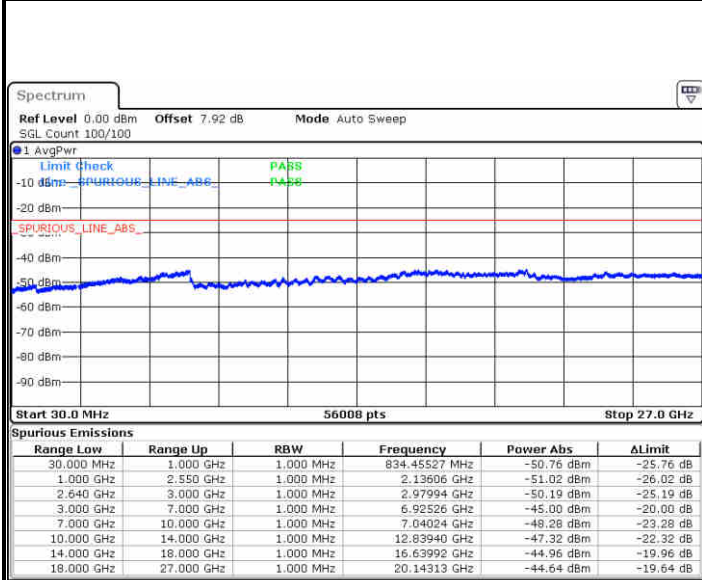


Date: 26 APR 2019 18:46:21



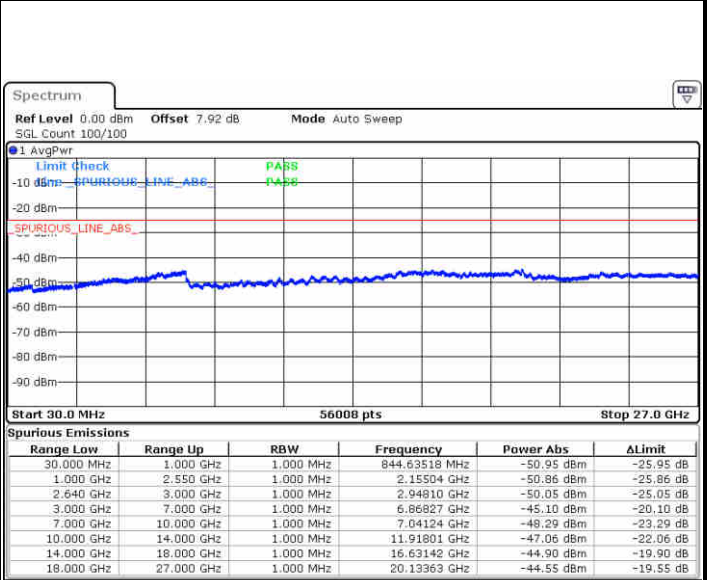
LTE Band 38 / 5MHz

Lowest Channel / QPSK



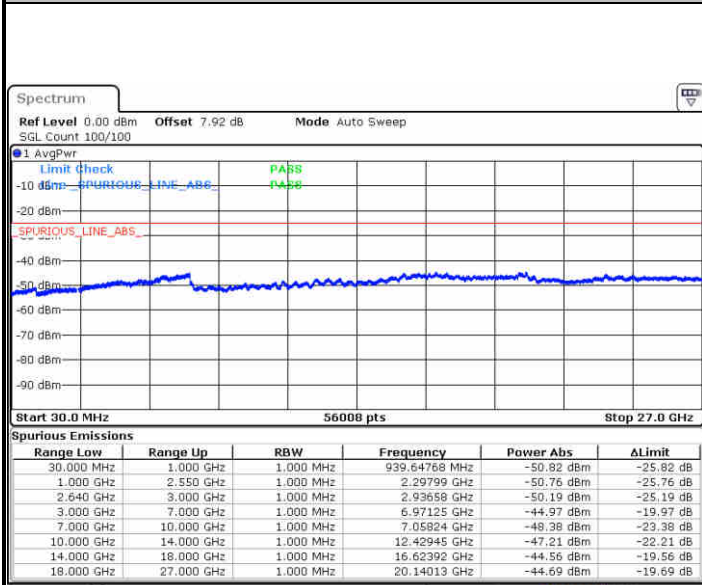
Date: 26 APR 2019 19:33:14

Lowest Channel / 16QAM



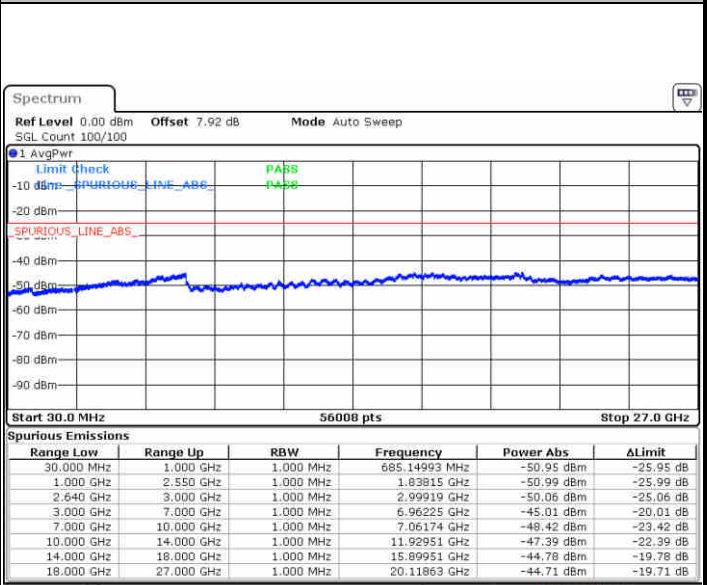
Date: 26 APR 2019 19:34:08

Middle Channel / QPSK



Date: 26 APR 2019 19:35:02

Middle Channel / 16QAM



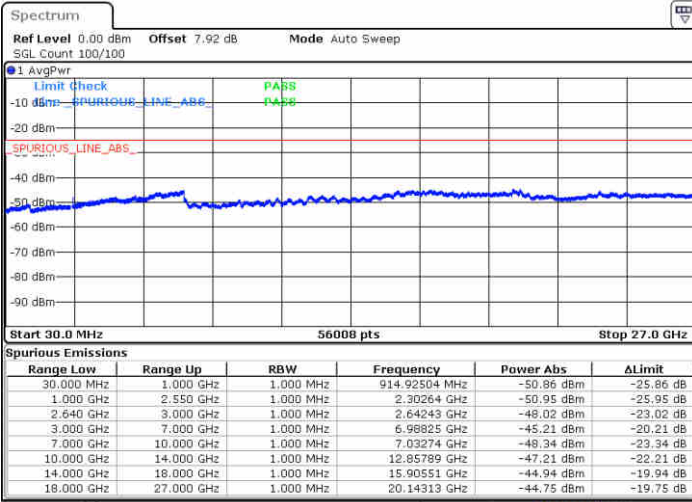
Date: 26 APR 2019 19:35:56



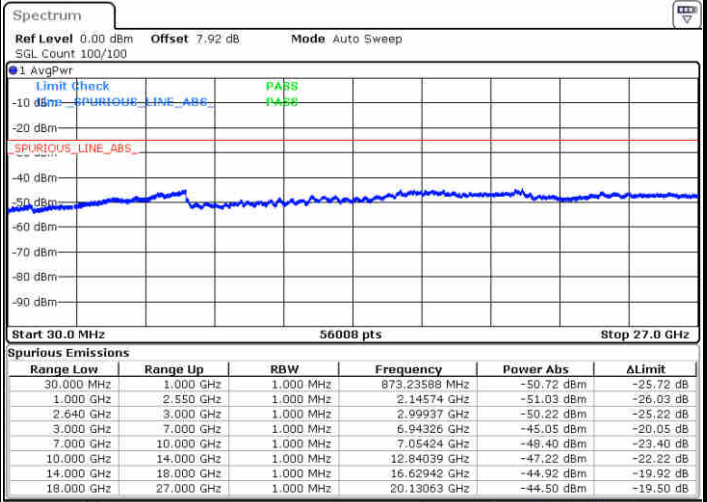
LTE Band 38 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 APR 2019 19:36:49

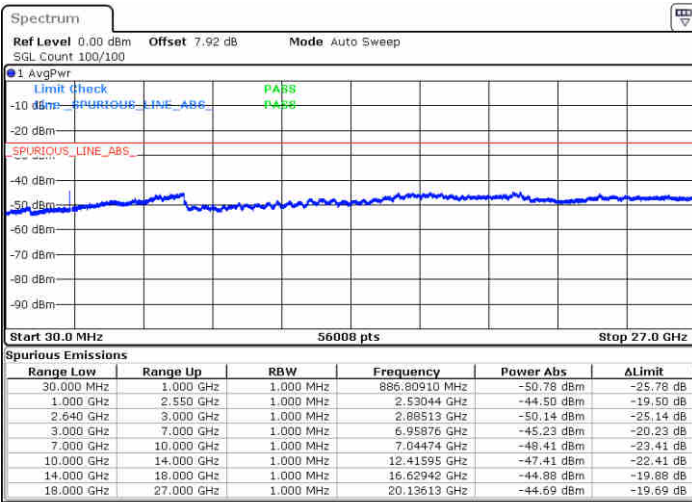


Date: 26 APR 2019 19:37:43

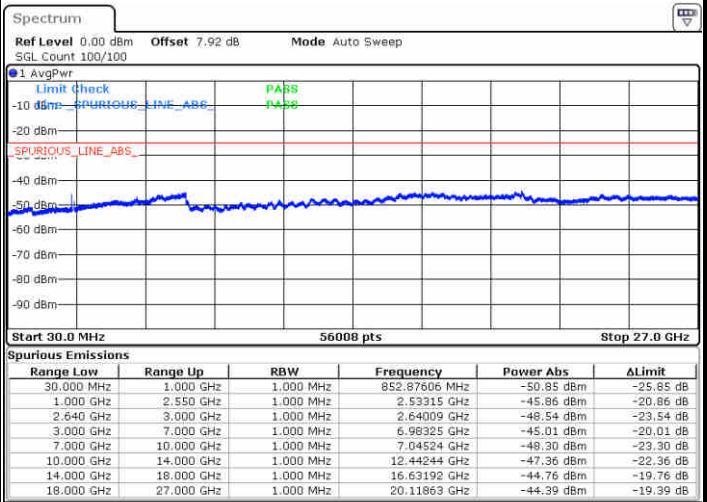
LTE Band 38 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 26 APR 2019 19:38:37



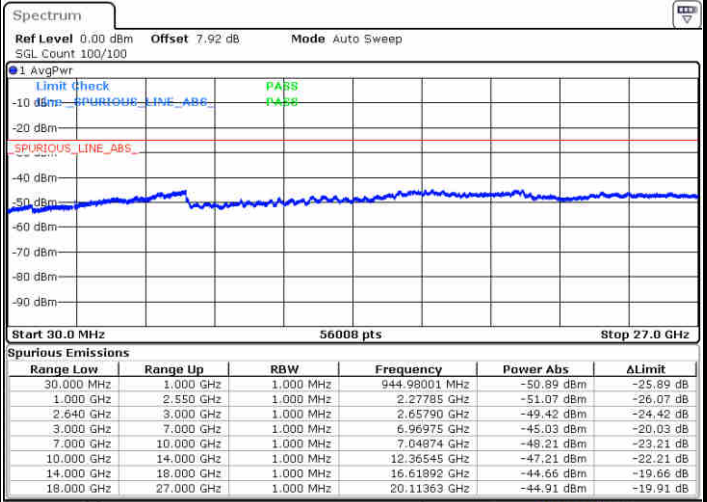
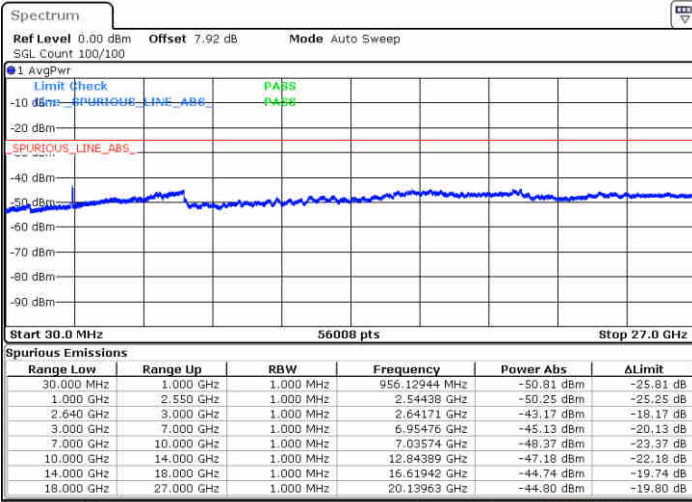
Date: 26 APR 2019 19:39:31



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

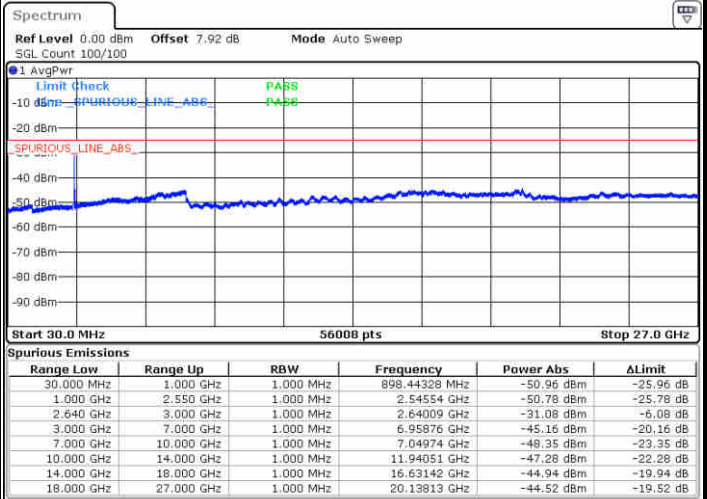
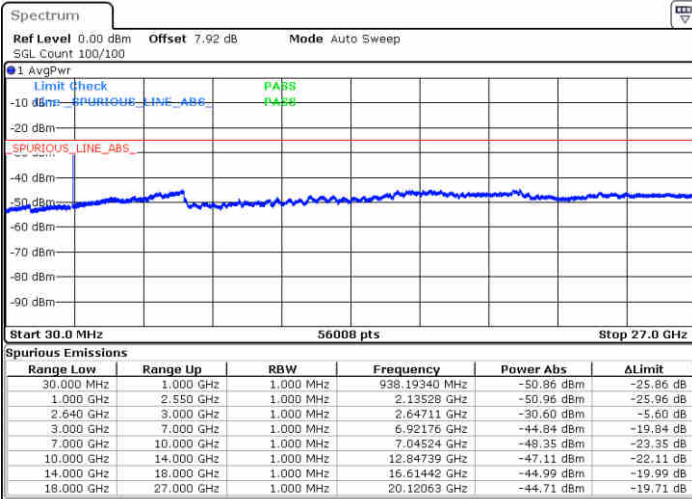


Date: 26 APR 2019 19:40:25

Date: 26 APR 2019 19:41:19

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 APR 2019 19:42:13

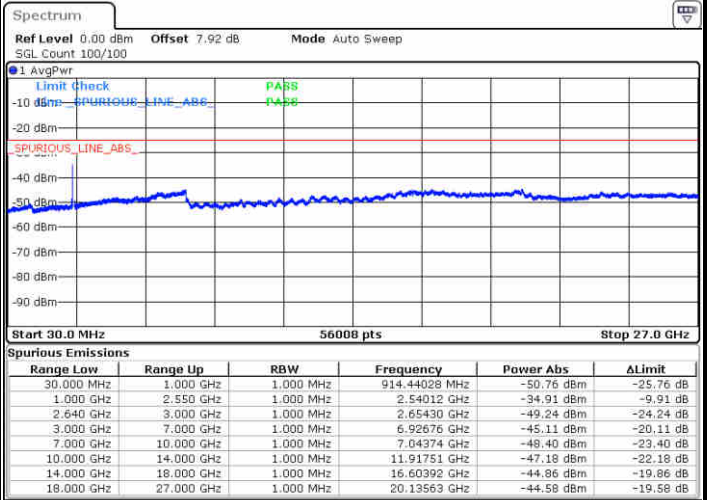
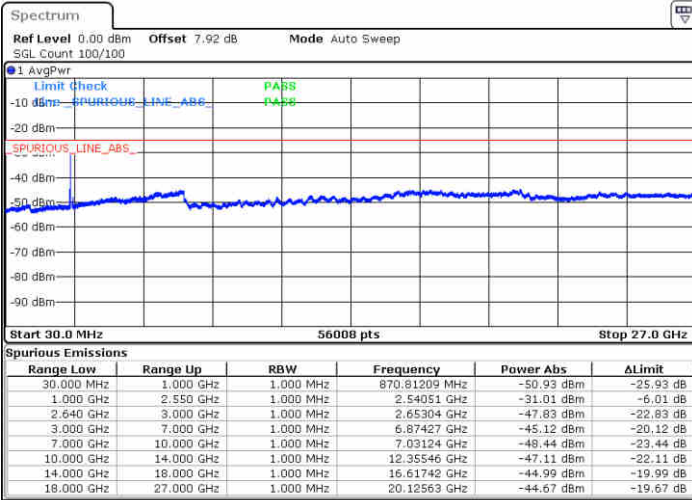
Date: 26 APR 2019 19:43:07



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

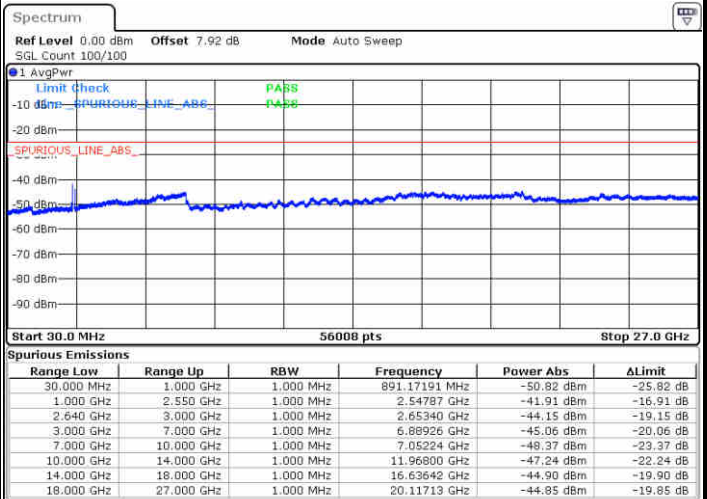
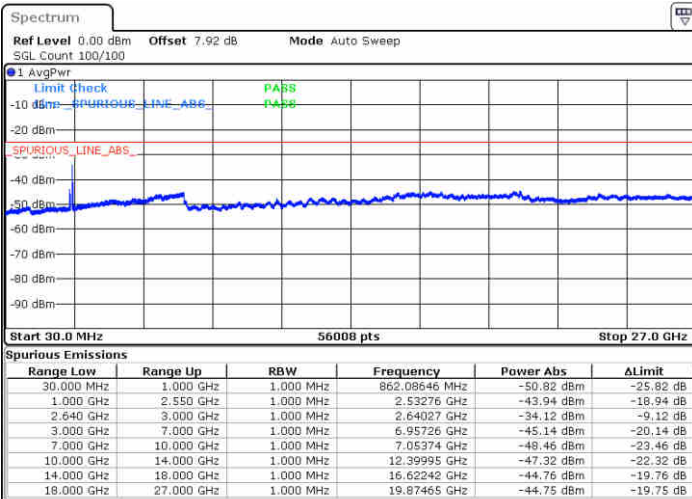


Date: 26 APR 2019 19:44:01

Date: 26 APR 2019 19:44:54

Middle Channel / QPSK

Middle Channel / 16QAM



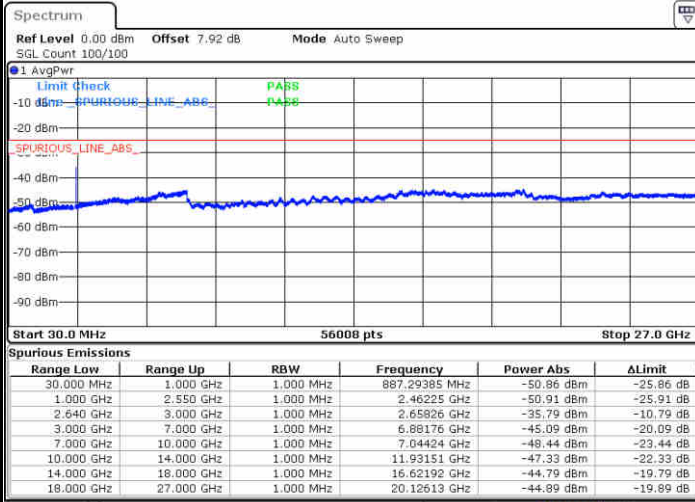
Date: 26 APR 2019 19:45:48

Date: 26 APR 2019 19:46:42



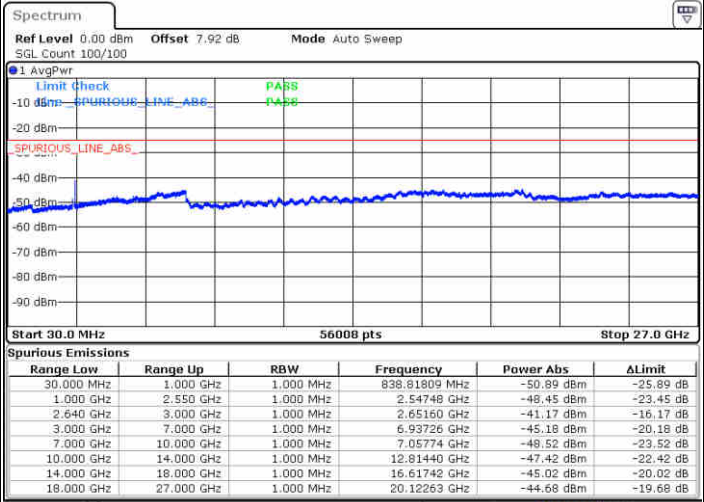
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 26 APR 2019 19:47:36

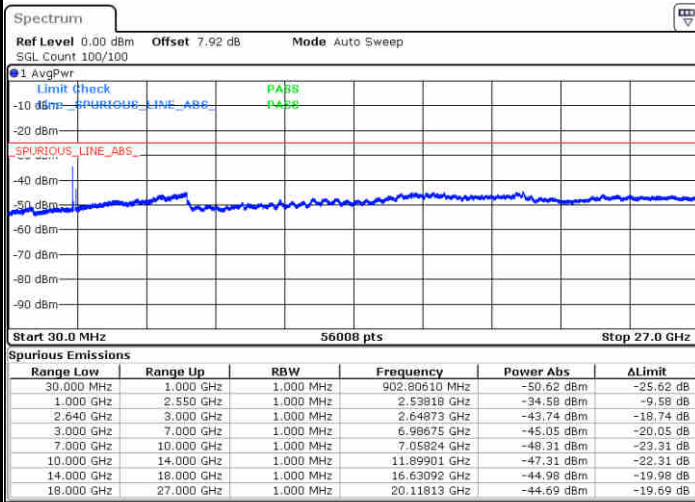
Highest Channel / 16QAM



Date: 26 APR 2019 19:48:30

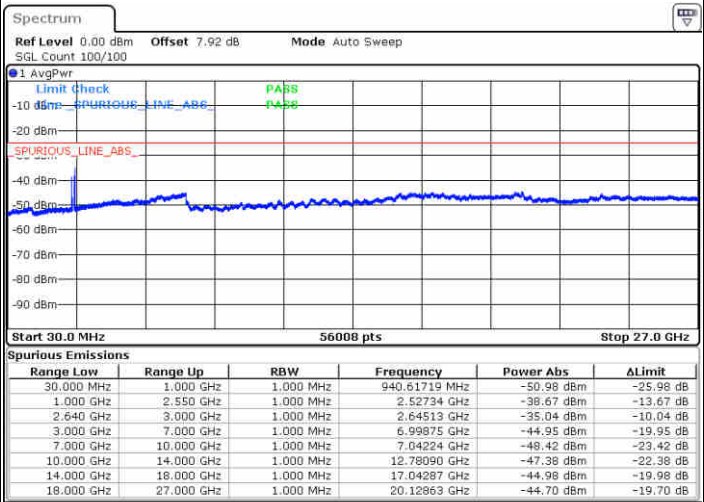
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 26 APR 2019 19:49:24

Lowest Channel / 16QAM



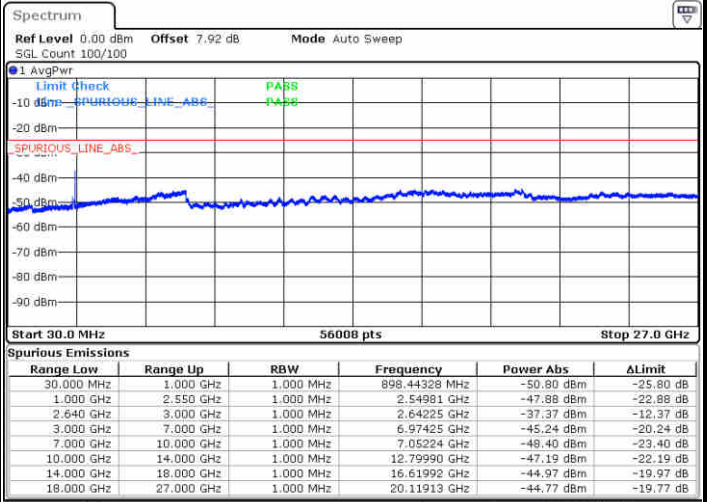
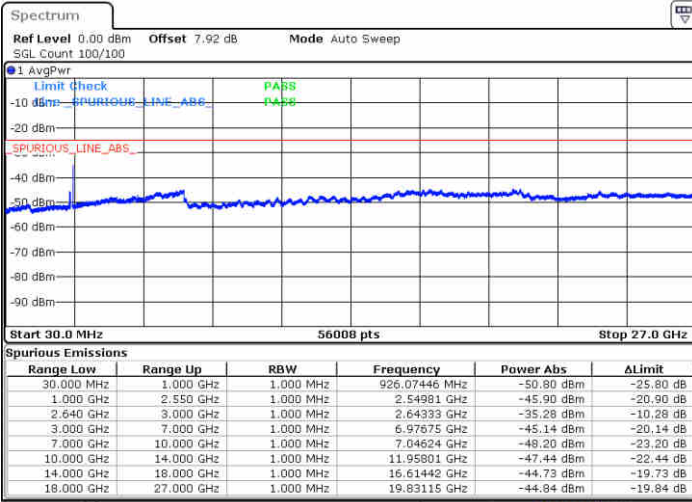
Date: 26 APR 2019 19:50:18



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

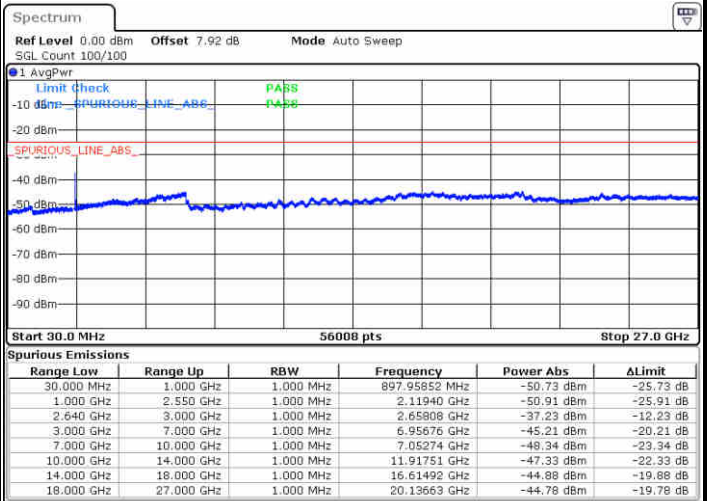
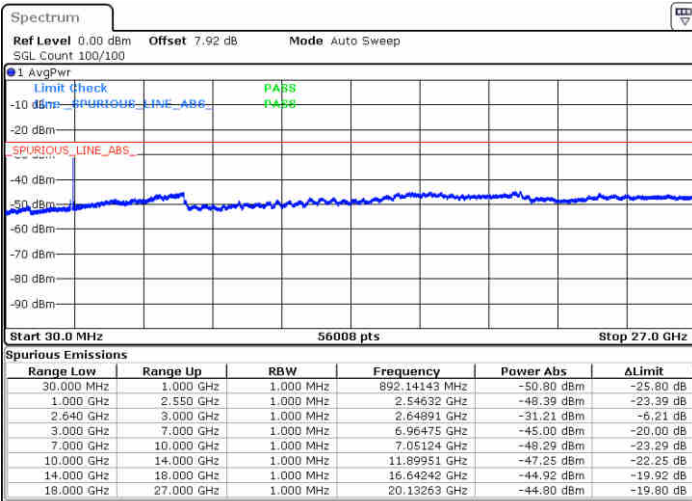


Date: 26 APR 2019 19:51:12

Date: 26 APR 2019 19:52:06

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 APR 2019 19:52:59

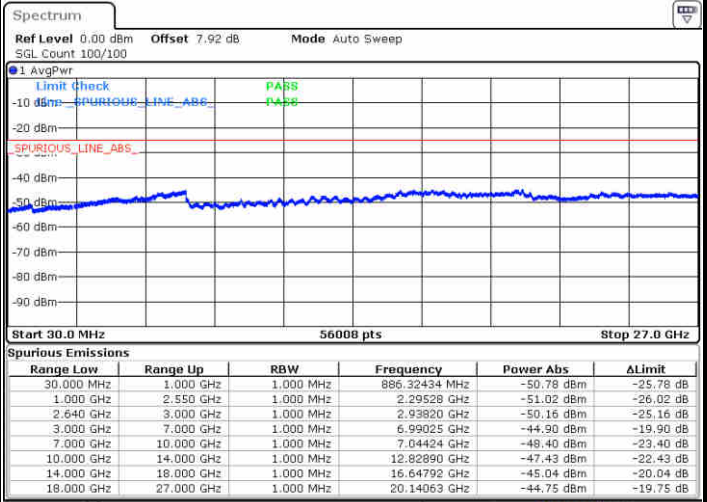
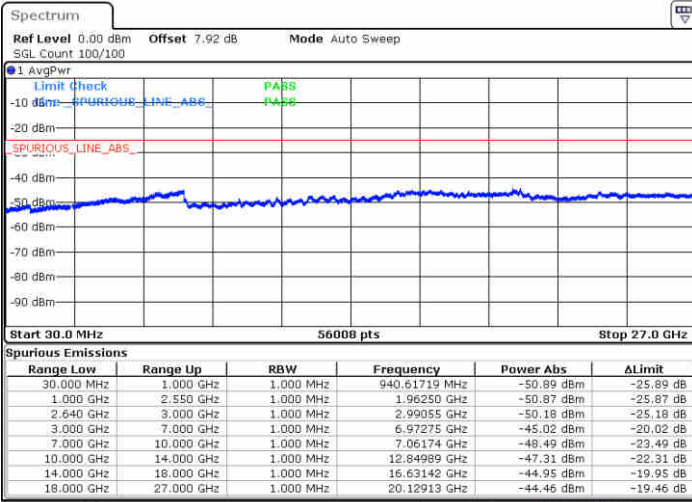
Date: 26 APR 2019 19:53:53



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

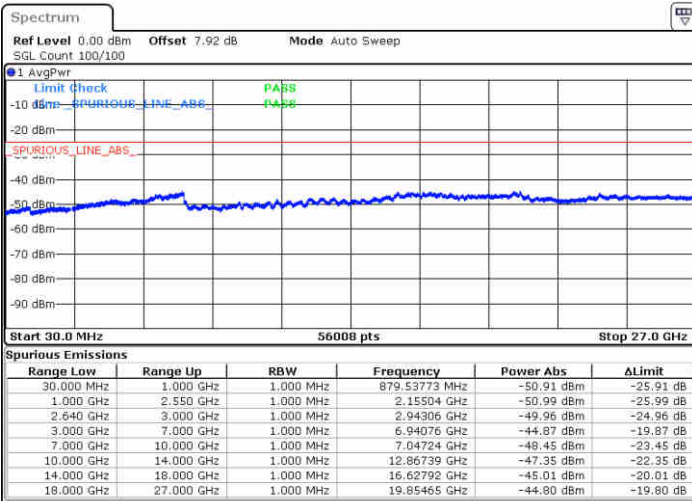
Middle Channel / 64QAM



Date: 28 APR 2019 19:54:47

Date: 28 APR 2019 19:55:41

Highest Channel / 64QAM



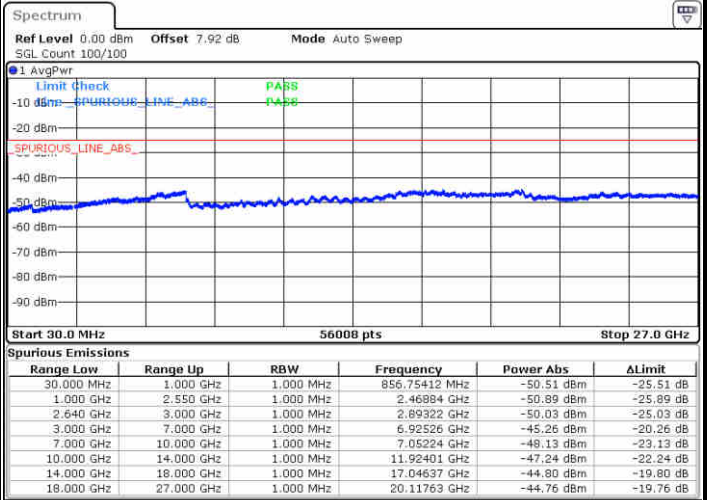
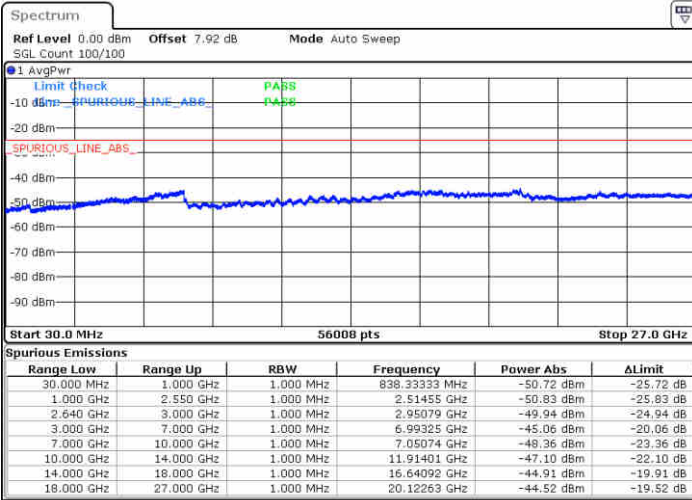
Date: 28 APR 2019 19:56:35



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

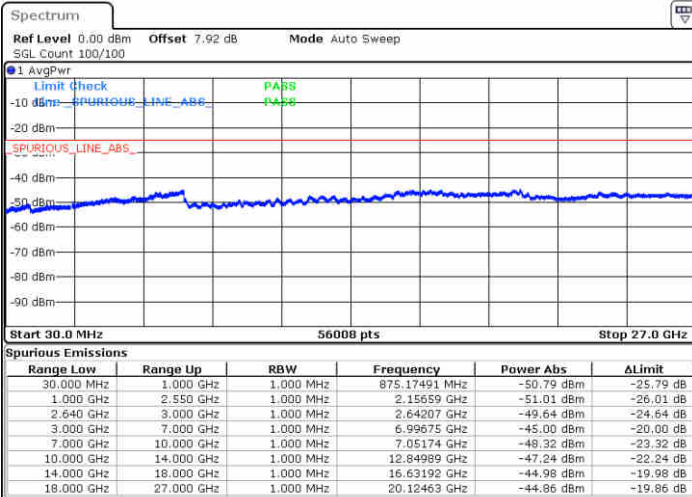
Middle Channel / 64QAM



Date: 26 APR 2019 19:57:29

Date: 26 APR 2019 19:58:23

Highest Channel / 64QAM



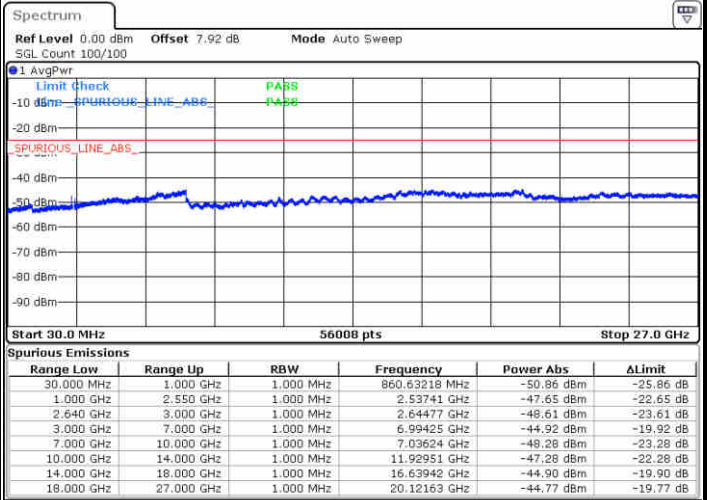
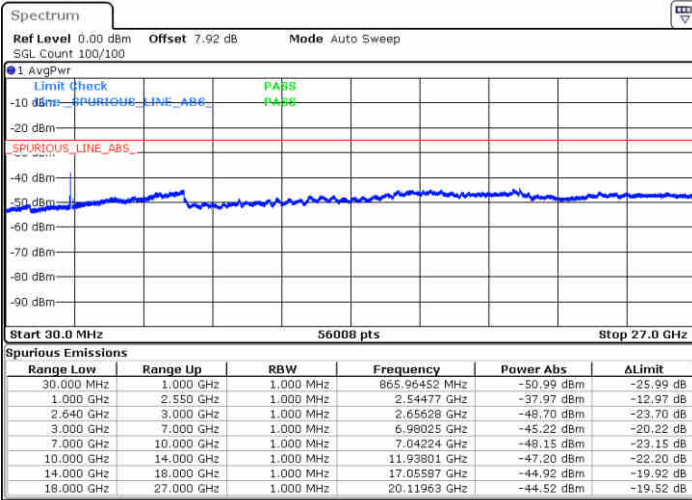
Date: 26 APR 2019 19:59:16



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

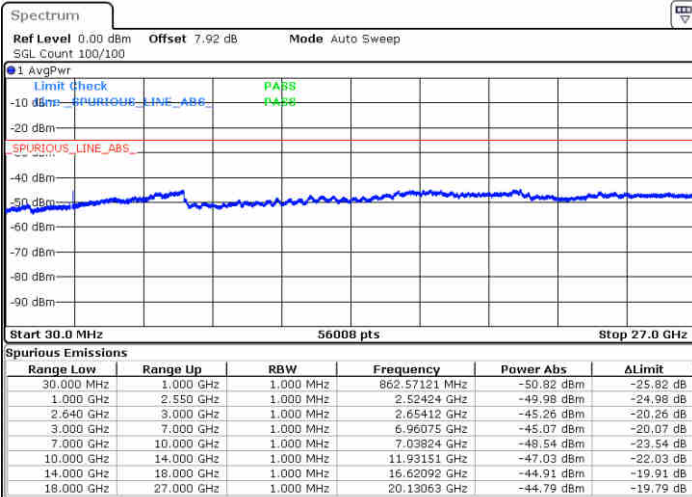
Middle Channel / 64QAM



Date: 28 APR 2019 20:00:10

Date: 28 APR 2019 20:01:04

Highest Channel / 64QAM



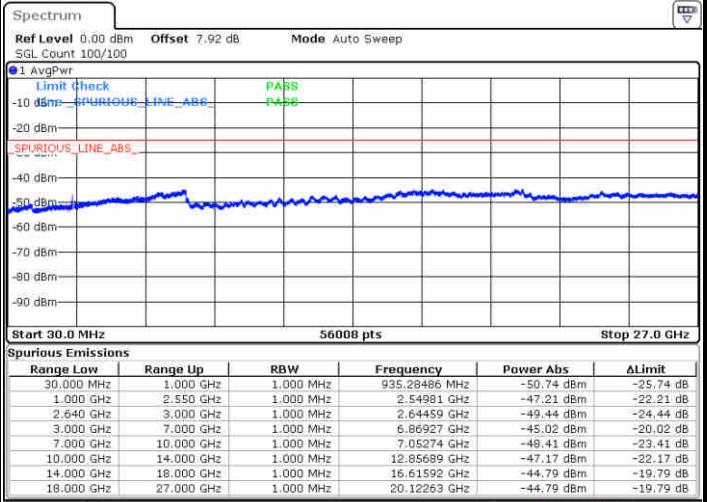
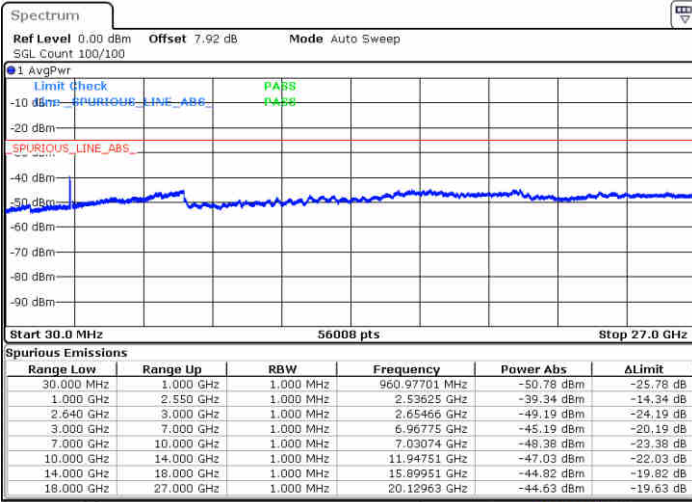
Date: 28 APR 2019 20:01:58



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

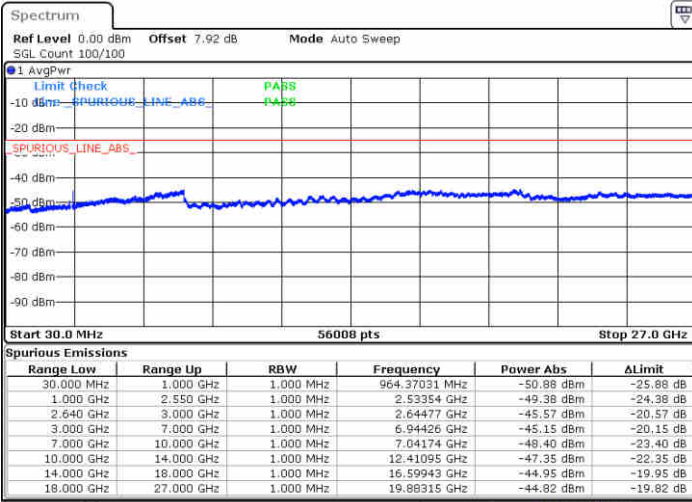
Middle Channel / 64QAM



Date: 28 APR 2019 20:02:52

Date: 28 APR 2019 20:03:46

Highest Channel / 64QAM



Date: 28 APR 2019 20:04:39



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.85V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0046	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3744	-41.11	-13	-28.11	-53.37	2.641	14.90	H
	5610	-44.95	-13	-31.95	-56.81	2.94	14.80	H
	7482	-52.28	-13	-39.28	-62.05	3.39	13.16	H
	3744	-45.36	-13	-32.36	-57.62	2.64	14.90	V
	5610	-44.99	-13	-31.99	-56.85	2.94	14.80	V
	7484	-51.62	-13	-38.62	-61.39	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3444	-52.51	-13	-39.51	-63.25	2.604	13.34	H
	5172	-58.24	-13	-45.24	-68.75	3.011	13.52	H
	6894.76	-54.82	-13	-41.82	-65.02	3.271	13.47	H
	3444	-56.21	-13	-43.21	-66.95	2.604	13.34	V
	5172	-58.61	-13	-45.61	-69.12	3.011	13.52	V
	6894.76	-54.80	-13	-41.80	-65.00	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-59.10	-13	-46.10	-66.07	1.58	10.70	H
	2496	-36.03	-13	-23.03	-44.28	2.102	12.50	H
	3328	-63.70	-13	-50.70	-72.59	2.856	13.90	H
	1664	-60.73	-13	-47.73	-67.70	1.58	10.70	V
	2496	-41.47	-13	-28.47	-49.72	2.10	12.50	V
	3328	-63.63	-13	-50.63	-72.52	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 7 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5051	-53.54	-25	-28.54	-62.03	1.83	10.32	H
	7577	-43.82	-25	-18.82	-52.83	2.60	11.61	H
	10100	-58.38	-25	-33.38	-69.14	2.67	13.43	H
	5051	-49.47	-25	-24.47	-57.96	1.83	10.32	V
	7577	-35.89	-25	-10.89	-44.90	2.60	11.61	V
	10100	-58.58	-25	-33.58	-69.34	2.67	13.43	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 38 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5171	-54.80	-25	-29.80	-63.23	1.93	10.36	H
	7757	-43.46	-25	-18.46	-52.69	2.64	11.87	H
	10340	-57.67	-25	-32.67	-68.50	2.64	13.47	H
	5171	-56.16	-25	-31.16	-64.59	1.93	10.36	V
	7757	-37.29	-25	-12.29	-46.52	2.64	11.87	V
	10340	-58.40	-25	-33.40	-69.23	2.64	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.