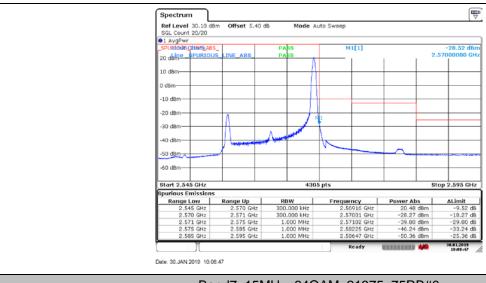
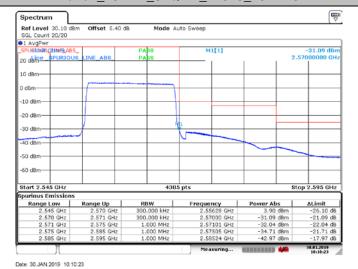
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Band7 15MHz 64QAM 21375 75RB#0



Band7_20MHz_64QAM_20850_1RB#0



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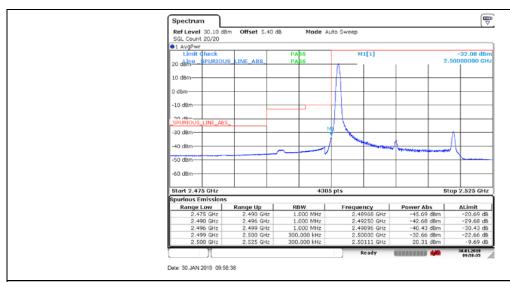
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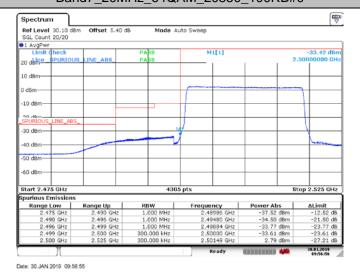
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Band7_20MHz_64QAM_20850_100RB#0



Band7_20MHz_64QAM_21350_1RB#99



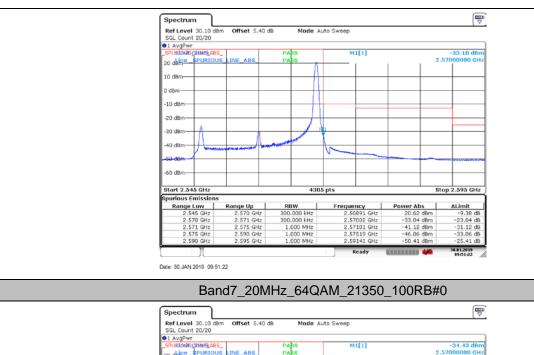
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Band7_5MHz_16QAM _20775_1RB#0

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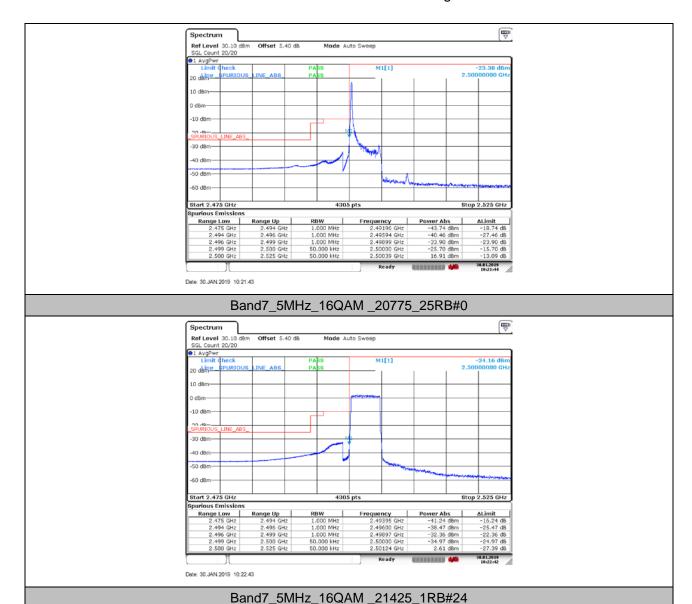
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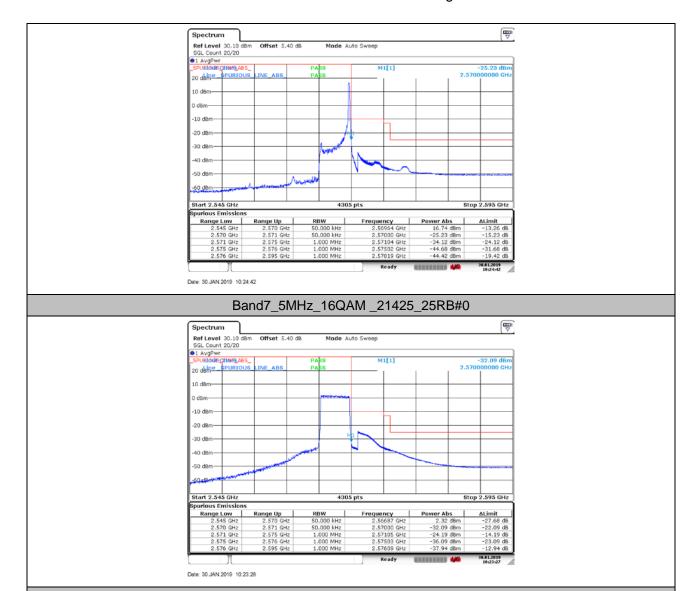
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Band7_10MHz_16QAM _20800_1RB#0



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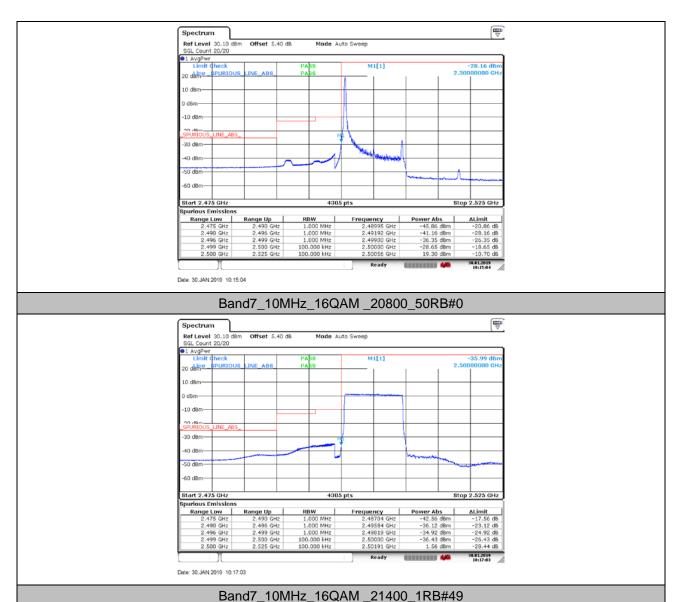
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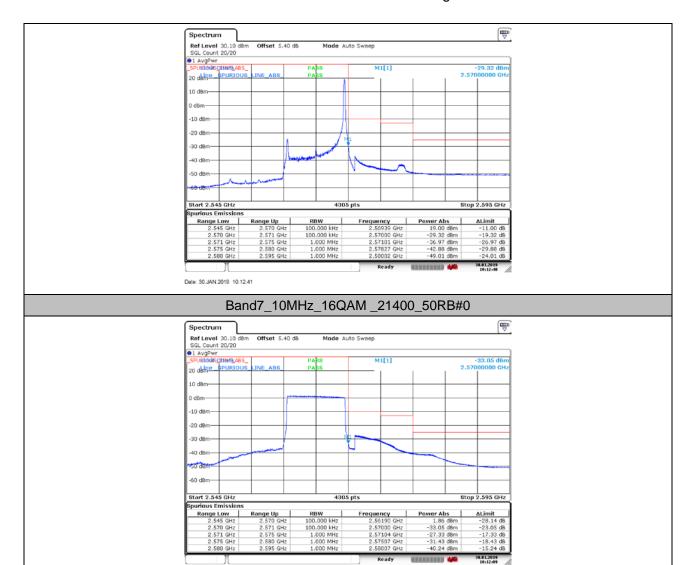
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Band7_15MHz_16QAM _20825_1RB#0

Date: 30.JAN.2019 10:12:09



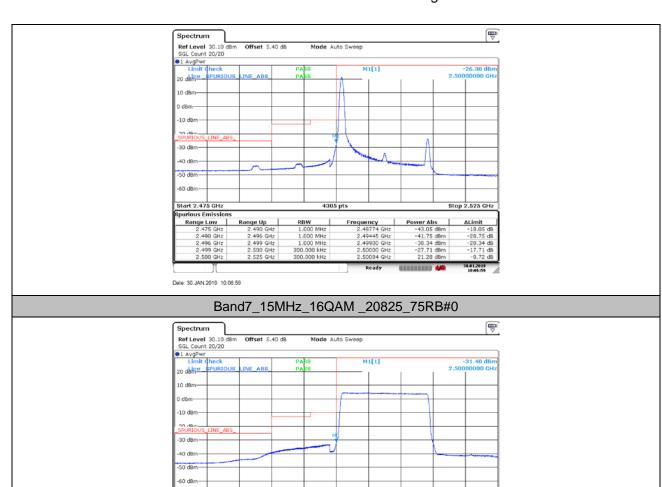
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Band7_15MHz_16QAM _21375_1RB#74

Date: 30.JAN.2019 10:06:34



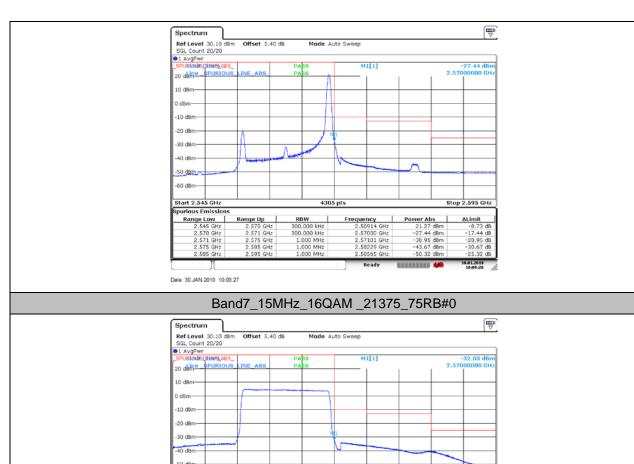
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Band7_20MHz_16QAM _20850_1RB#0

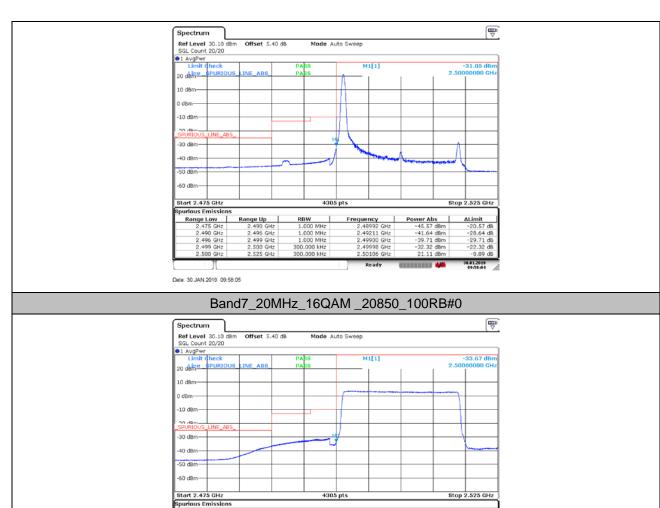
-60 dBm

Date: 30.JAN.2019 10:10:00



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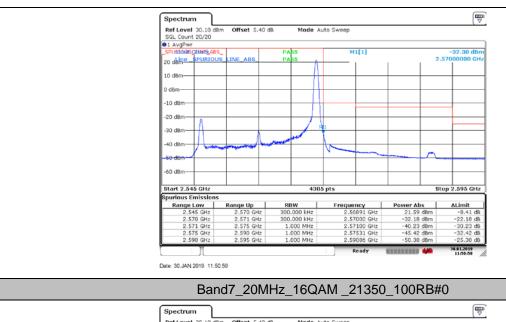
Band7_20MHz_16QAM _21350_1RB#99

Date: 30.JAN.2019 09:57:39

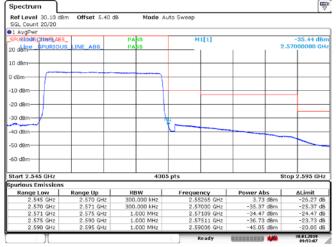


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Date: 30.JAN.2019 09:53:08





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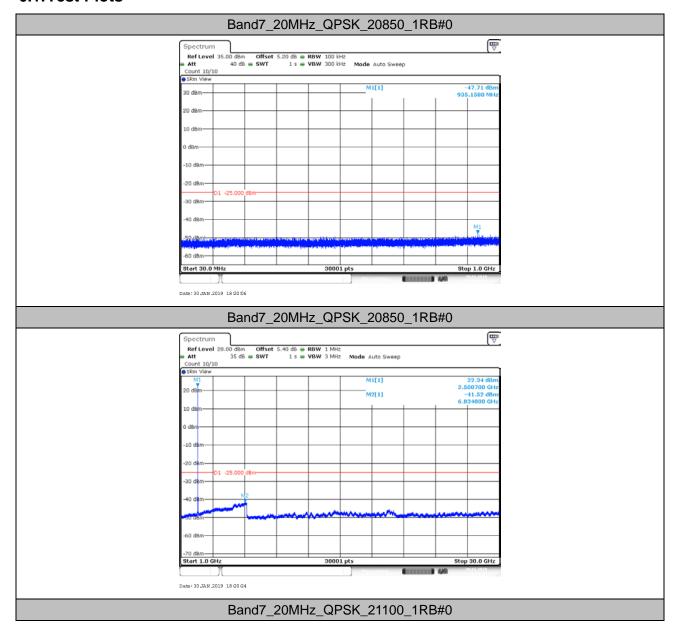
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6. Spurious Emission at Antenna Terminal

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

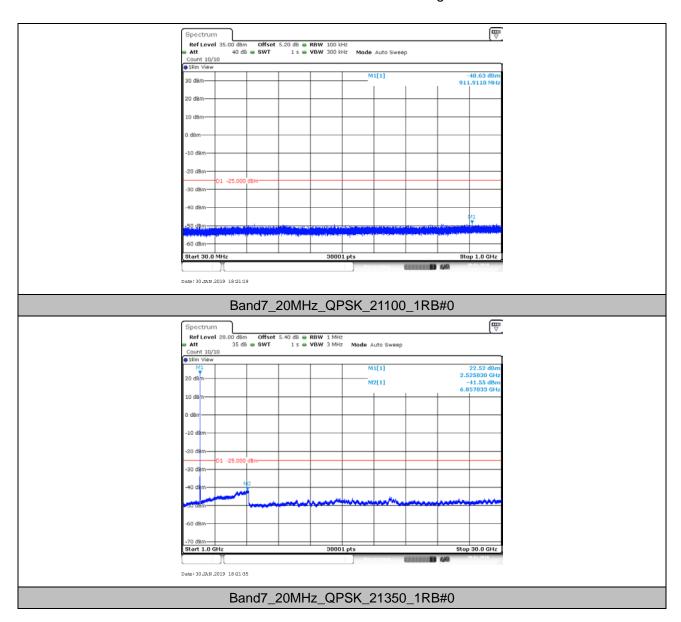






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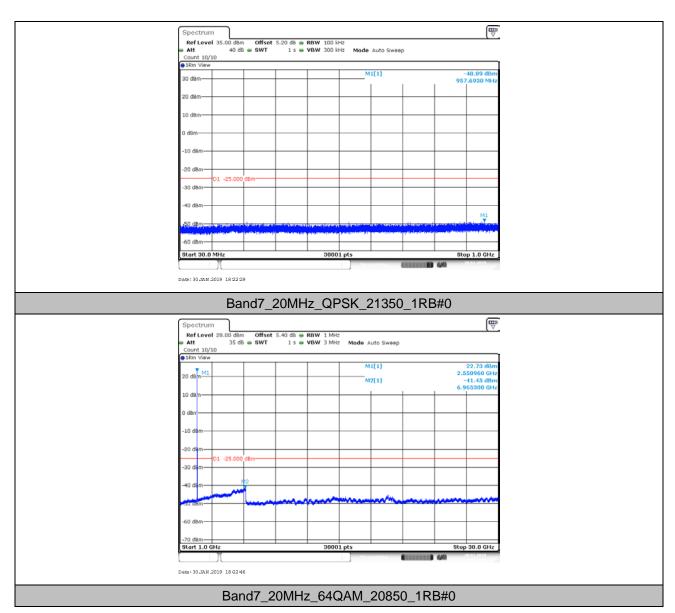






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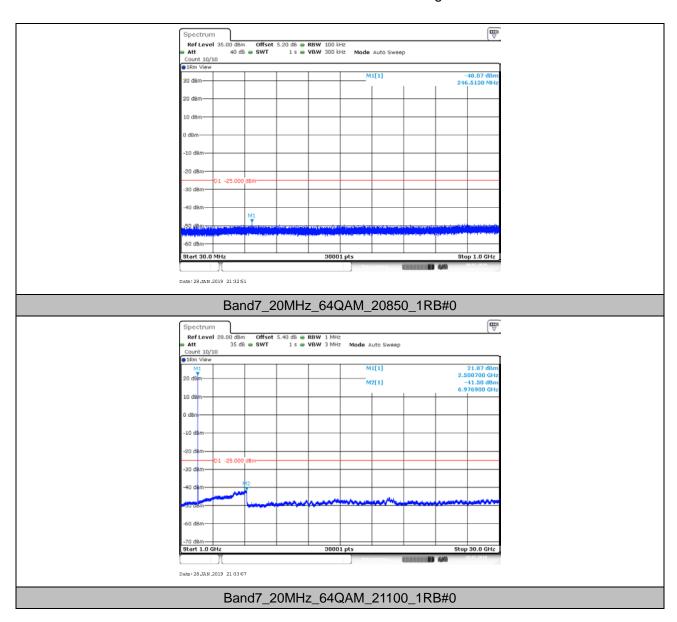






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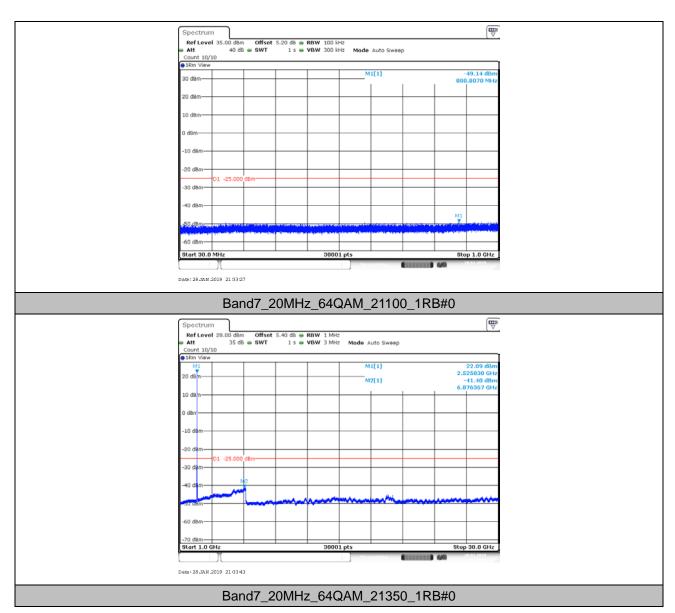






Report No.: HR/2019/1001201

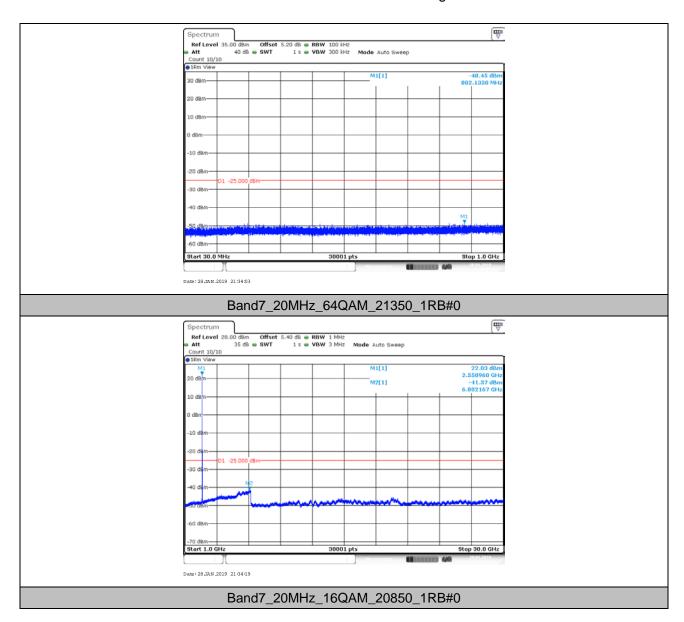
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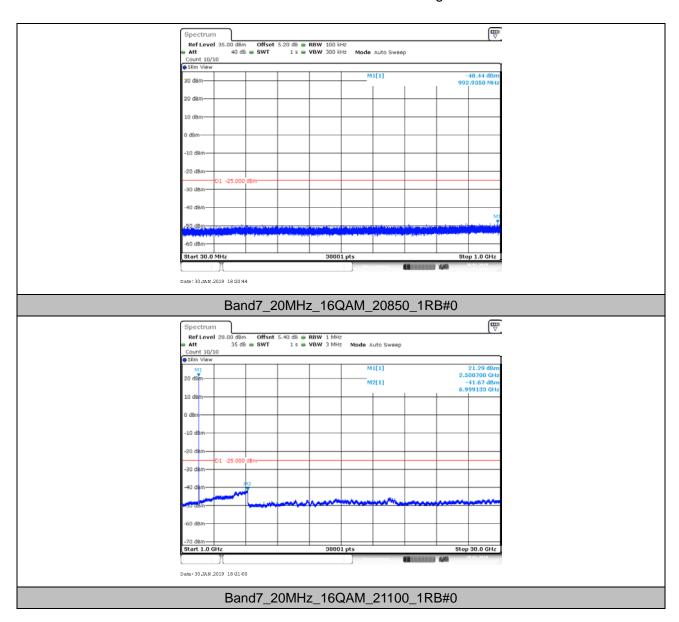
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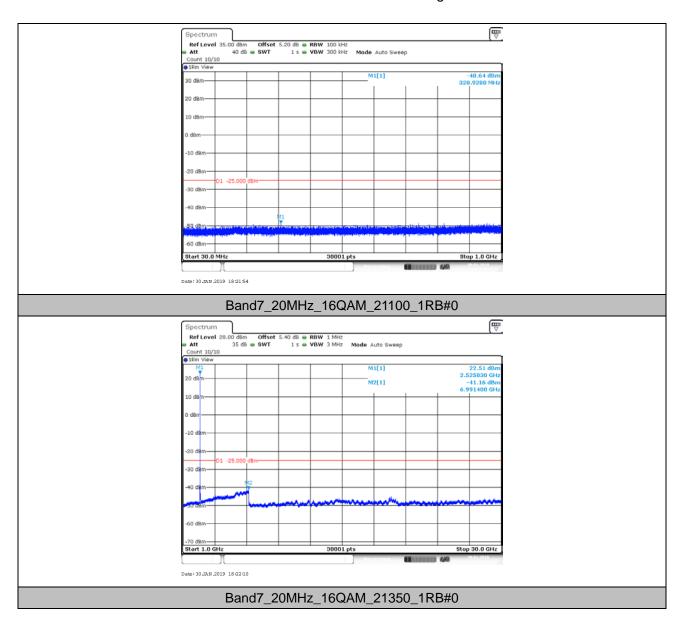






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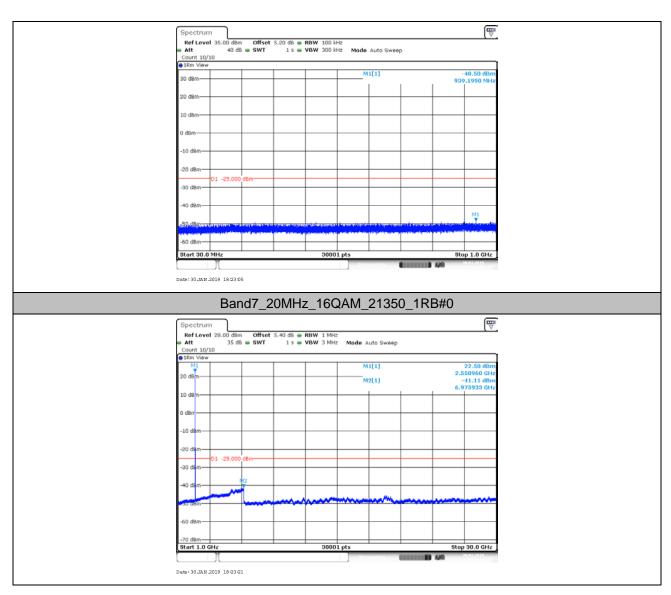
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7. Field Strength of Spurious Radiation

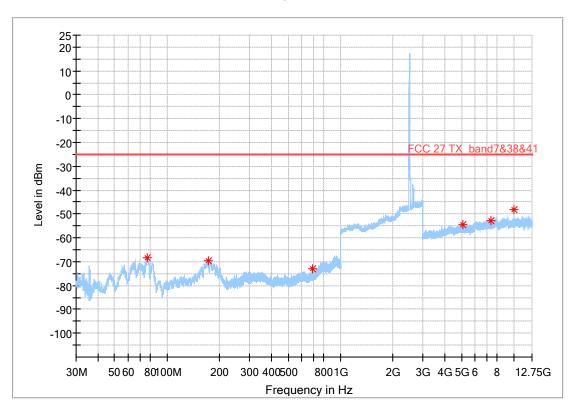
7.1. Main Antenna

7.1.1. Test BAND = LTE BAND 7

7.1.1.1. Test Mode =LTE/TM1

7.1.1.1.1 LCH-Vertical

Full Spectrum



Critical_Freqs

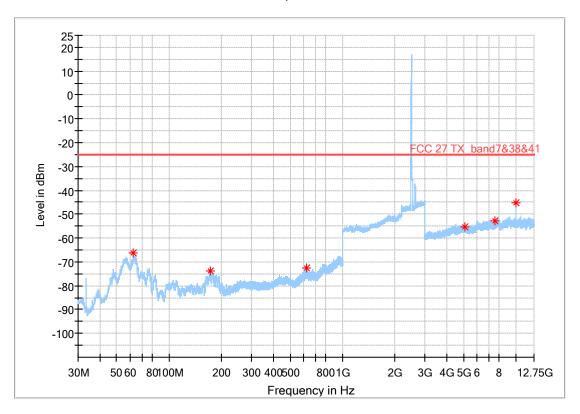
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.900000	-68.36	-25.00	43.36			200.0	٧	288.0	-108.0
172.550000	-69.60	-25.00	44.60			200.0	V	101.0	-108.9
689.525000	-73.07	-25.00	48.07			200.0	V	193.0	-99.0
5063.425000	-54.60	-25.00	29.60			200.0	V	212.0	-101.6
7416.100000	-52.82	-25.00	27.82			200.0	V	2.0	-99.3
10004.400000	-48.18	-25.00	23.18			200.0	V	2.0	-97.2



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7.1.1.1.2. LCH-Horizontal

Full Spectrum



Critical_Freqs

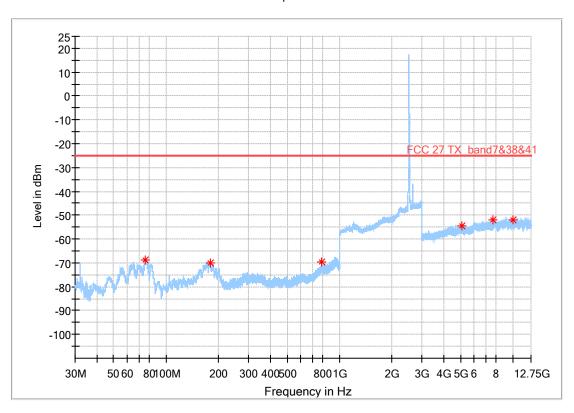
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.400000	-66.44	-25.00	41.44			200.0	Н	9.0	-95.0
173.300000	-73.85	-25.00	48.85			200.0	Н	148.0	-107.1
625.816667	-72.37	-25.00	47.37			200.0	Н	261.0	-98.1
5076.100000	-55.27	-25.00	30.27			200.0	Н	0.0	-101.5
7627.675000	-52.87	-25.00	27.87			200.0	Н	0.0	-98.6
10004.075000	-45.15	-25.00	20.15			200.0	Н	1.0	-97.3



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7.1.1.1.3. MCH-Vertical

Full Spectrum



Critical_Freqs

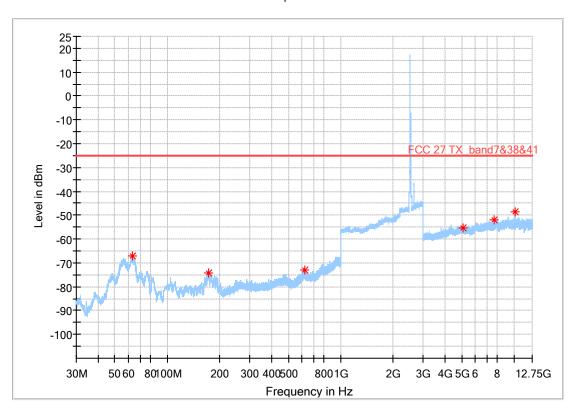
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76.450000	-68.58	-25.00	43.58			200.0	V	311.0	-107.6
179.850000	-70.23	-25.00	45.23			200.0	V	101.0	-109.3
794.895833	-69.67	-25.00	44.67			200.0	V	189.0	-94.4
5060.825000	-54.29	-25.00	29.29			200.0	V	0.0	-101.6
7716.400000	-52.01	-25.00	27.01			200.0	V	0.0	-98.1
10098.650000	-51.85	-25.00	26.85			200.0	V	0.0	-97.1



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7.1.1.1.4. MCH-Horizontal

Full Spectrum



Critical_Freqs

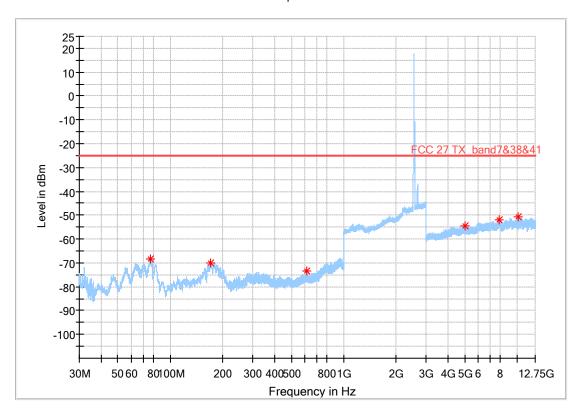
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.950000	-67.06	-25.00	42.06			200.0	Η	336.0	-95.6
172.950000	-74.09	-25.00	49.09			200.0	Н	172.0	-107.2
620.637500	-72.93	-25.00	47.93			200.0	Н	0.0	-97.9
5084.550000	-55.12	-25.00	30.12			200.0	Η	0.0	-101.5
7712.175000	-52.12	-25.00	27.12			200.0	Н	1.0	-98.1
10104.500000	-48.70	-25.00	23.70			200.0	Η	1.0	-97.2



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7.1.1.1.5. HCH-Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.800000	-68.35	-25.00	43.35			200.0	V	312.0	-107.9
172.050000	-70.19	-25.00	45.19			200.0	V	125.0	-108.9
613.533333	-73.37	-25.00	48.37			200.0	V	226.0	-99.0
5055.950000	-54.65	-25.00	29.65			200.0	V	212.0	-101.6
7850.300000	-52.17	-25.00	27.17			200.0	V	0.0	-97.9
10204.275000	-50.79	-25.00	25.79			200.0	V	2.0	-97.0



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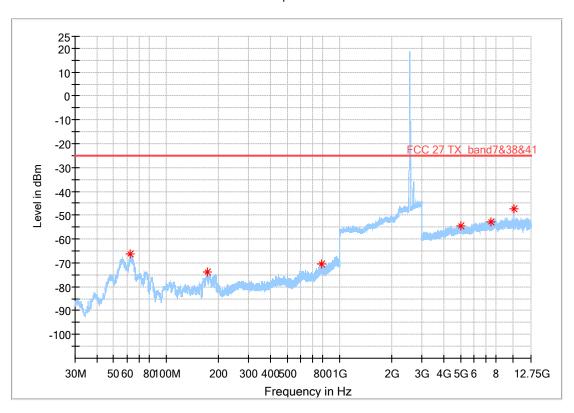
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7.1.1.1.6. HCH-Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.750000	-66.41	-25.00	41.41			200.0	Н	313.0	-95.4
172.600000	-73.77	-25.00	48.77			200.0	Н	150.0	-107.2
792.420833	-70.52	-25.00	45.52			200.0	Н	2.0	-94.7
5010.125000	-54.55	-25.00	29.55			200.0	Н	1.0	-101.4
7527.250000	-52.97	-25.00	27.97			200.0	Н	212.0	-99.1
10204.275000	-47.17	-25.00	22.17			200.0	Н	1.0	-97.1



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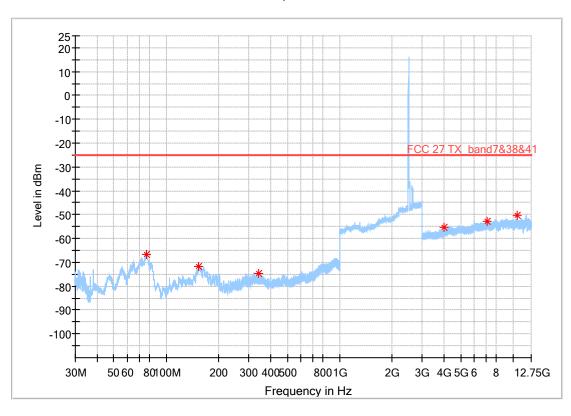
Secondary Antenna 7.2.

7.2.1. Test BAND = LTE BAND 7

7.2.1.1. Test Mode =LTE/TM1

7.2.1.1.1. LCH-Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.950000	-66.70	-25.00	41.70			200.0	V	312.0	-108.0
154.700000	-71.59	-25.00	46.59			200.0	V	124.0	-108.9
340.150000	-74.83	-25.00	49.83			200.0	V	334.0	-101.8
4024.075000	-55.27	-25.00	30.27			200.0	V	0.0	-103.5
7060.225000	-52.71	-25.00	27.71			200.0	V	214.0	-98.9
10561.450000	-50.11	-25.00	25.11			200.0	V	0.0	-96.4



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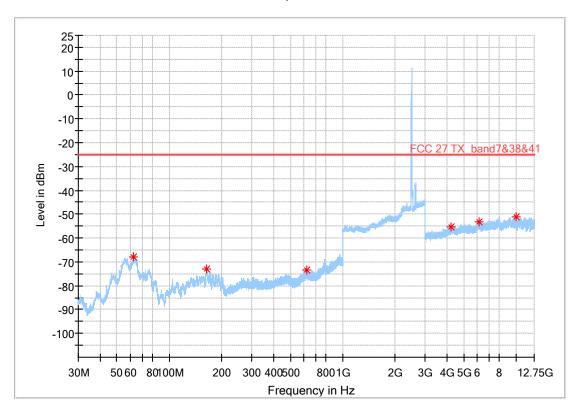
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7.2.1.1.2. LCH-Horizontal

Full Spectrum



Critical_Freqs

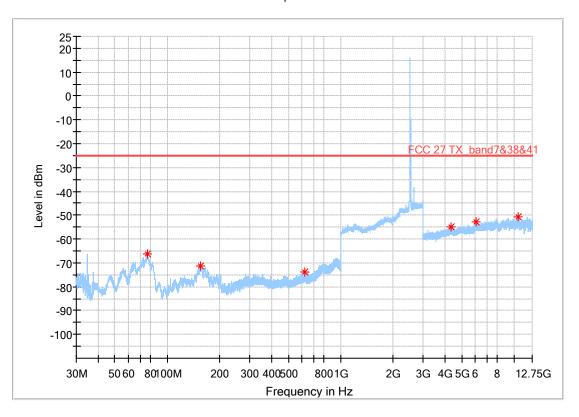
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.700000	-67.74	-25.00	42.74			200.0	Η	0.0	-95.3
165.650000	-72.96	-25.00	47.96			200.0	Η	196.0	-107.4
623.250000	-73.36	-25.00	48.36			200.0	Н	1.0	-98.0
4247.675000	-55.21	-25.00	30.21			200.0	Η	212.0	-103.0
6107.000000	-53.04	-25.00	28.04			200.0	Н	0.0	-100.0
10004.400000	-51.33	-25.00	26.33			200.0	Н	1.0	-97.3



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7.2.1.1.3. MCH-Vertical

Full Spectrum



Critical_Freqs

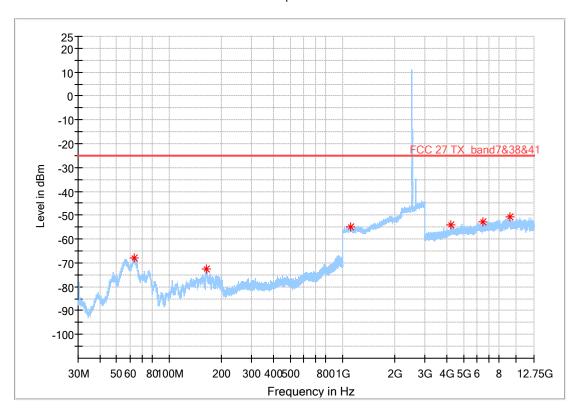
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.200000	-66.38	-25.00	41.38			200.0	V	312.0	-108.2
155.150000	-71.38	-25.00	46.38			200.0	٧	82.0	-108.9
621.691667	-73.99	-25.00	48.99			200.0	٧	0.0	-99.0
4348.100000	-54.72	-25.00	29.72			200.0	٧	211.0	-102.8
6060.200000	-52.67	-25.00	27.67			200.0	٧	0.0	-99.7
10596.225000	-50.86	-25.00	25.86			200.0	V	1.0	-96.3



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7.2.1.1.4. MCH-Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.950000	-67.79	-25.00	42.79			200.0	Η	125.0	-95.6
165.650000	-72.78	-25.00	47.78			200.0	Н	194.0	-107.4
1114.500000	-54.73	-25.00	29.73			200.0	Н	73.0	-89.1
4202.500000	-54.08	-25.00	29.08			200.0	Н	211.0	-103.2
6507.725000	-52.64	-25.00	27.64			200.0	Н	211.0	-99.3
9282.250000	-50.81	-25.00	25.81			200.0	Η	0.0	-96.8



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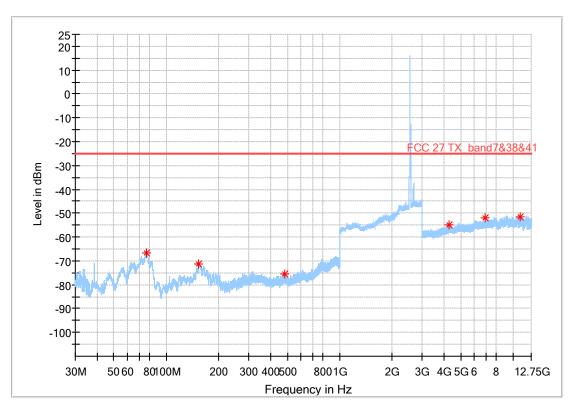
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7.2.1.1.5. HCH-Vertical

Full Spectrum



Critical_Freqs

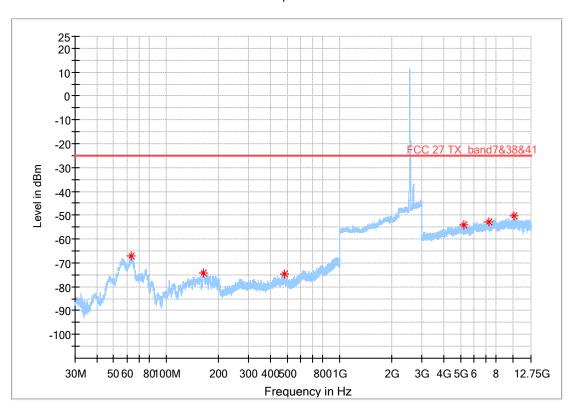
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.250000	-66.75	-25.00	41.75			200.0	V	311.0	-108.2
154.700000	-71.28	-25.00	46.28			200.0	V	78.0	-108.9
485.933333	-75.32	-25.00	50.32			200.0	V	299.0	-101.7
4257.425000	-54.76	-25.00	29.76			200.0	V	0.0	-103.0
6936.075000	-52.07	-25.00	27.07			200.0	V	212.0	-99.2
11073.975000	-51.46	-25.00	26.46			200.0	V	0.0	-96.5



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7.2.1.1.6. HCH-Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.150000	-66.97	-25.00	41.97			200.0	Н	311.0	-95.8
163.800000	-74.25	-25.00	49.25			200.0	Н	193.0	-107.7
483.091667	-74.62	-25.00	49.62			200.0	Н	262.0	-100.6
5202.200000	-54.08	-25.00	29.08			200.0	Н	212.0	-101.7
7275.700000	-52.70	-25.00	27.70			200.0	Н	1.0	-99.5
10204.600000	-50.13	-25.00	25.13			200.0	Н	1.0	-97.1

Remark:

- 1) The disturbance above 12.75GHz and 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.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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8. Appendix F: Frequency Stability

9.1. Frequency Vs Voltage

	Voltage									
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	0.60	0.000239	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	0.50	0.000199	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	0.90	0.000359	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	0.50	0.000197	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.40	0.000158	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	0.60	0.000237	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	0.70	0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	0.40	0.000156	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	0.40	0.000156	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	1.40	0.000558	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	0.20	0.000080	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	1.00	0.000398	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	1.20	0.000473	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	1.20	0.000473	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	0.70	0.000276	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	1.00	0.000391	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	1.40	0.000547	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	1.10	0.000430	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	1.00	0.000398	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	1.30	0.000518	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	1.30	0.000518	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	0.90	0.000355	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	0.80	0.000316	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	1.10	0.000434	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	0.50	0.000195	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	1.10	0.000430	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	0.80	0.000313	±2.5	PASS

9.2. Frequency Vs Temperature

Temperature												
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict		
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	1.10	0.000438	±2.5	PASS		
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	0.60	0.000239	±2.5	PASS		
Band7	20MHz	QPSK	20850	100RB#0	NV	0	0.70	0.000279	±2.5	PASS		
Band7	20MHz	QPSK	20850	100RB#0	NV	10	0.90	0.000359	±2.5	PASS		
Band7	20MHz	QPSK	20850	100RB#0	NV	20	0.90	0.000359	±2.5	PASS		
Band7	20MHz	QPSK	20850	100RB#0	NV	30	0.40	0.000159	±2.5	PASS		



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Band7	20MHz	QPSK	20850	100RB#0	NV	40	0.80	0.000319	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.10	0.000438	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	0.80	0.000316	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	0.80	0.000316	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	0.60	0.000237	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.50	0.000197	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.70	0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	0.40	0.000158	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	1.10	0.000434	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	0.30	0.000118	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	1.10	0.000430	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	0.60	0.000234	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	0.90	0.000352	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	1.10	0.000430	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	1.00	0.000391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	1.00	0.000391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	1.20	0.000469	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	0.70	0.000273	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	0.80	0.000319	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	1.00	0.000398	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	0.60	0.000239	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	1.30	0.000518	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	0.80	0.000319	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	1.10	0.000438	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	0.60	0.000239	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	0.90	0.000359	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	1.40	0.000552	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	1.00	0.000394	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	1.10	0.000434	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	0.70	0.000276	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	0.60	0.000237	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	1.20	0.000473	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	1.20	0.000473	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	1.40	0.000552	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	0.80	0.000313	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	1.30	0.000508	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	0.90	0.000352	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	0.90	0.000352	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	1.20	0.000469	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	0.90	0.000352	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	1.00	0.000391	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	1.00	0.000391	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	0.70	0.000279	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	0.80	0.000270	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	0.40	0.000159	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	0.80	0.000133	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	1.10	0.000438	±2.5	PASS
Danar	201411 12	103/11/1	20000	100105#0	144		1.10	0.000	±2.0	. , .00



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Band7	20MHz	16QAM	20850	100RB#0	NV	30	1.30	0.000518	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	1.00	0.000398	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	0.60	0.000239	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	0.60	0.000237	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	0.60	0.000237	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	0.50	0.000197	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	0.90	0.000355	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	0.40	0.000158	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	0.70	0.000276	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	1.10	0.000434	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	0.50	0.000197	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	0.90	0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	0.30	0.000117	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	1.00	0.000391	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	0.40	0.000156	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	0.60	0.000234	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	0.60	0.000234	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	0.80	0.000313	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	0.70	0.000273	±2.5	PASS

The End



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