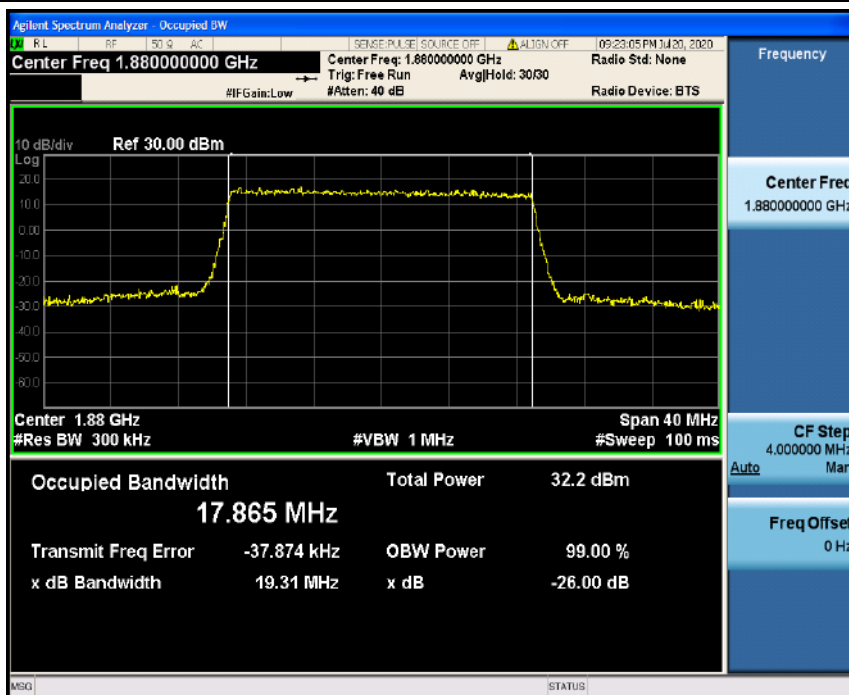


Band2-20MHz-16QAM-18900-100RB#0-17.865



Band2-20MHz-16QAM-19100-100RB#0-17.880



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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	-21.16	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	-26.14	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	-20.27	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-24.93	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	-25.57	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	-29.90	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	-24.62	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	-31.47	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	-21.72	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-26.15	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	-21.09	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-26.20	PASS
Band2	3MHz	QPSK	18615	1RB#0	-20.81	PASS
Band2	3MHz	QPSK	18615	15RB#0	-27.57	PASS
Band2	3MHz	QPSK	19185	1RB#14	-19.65	PASS
Band2	3MHz	QPSK	19185	15RB#0	-25.89	PASS
Band2	3MHz	64QAM	18615	1RB#0	-23.96	PASS
Band2	3MHz	64QAM	18615	15RB#0	-31.39	PASS
Band2	3MHz	64QAM	19185	1RB#14	-24.28	PASS
Band2	3MHz	64QAM	19185	15RB#0	-31.74	PASS
Band2	3MHz	16QAM	18615	1RB#0	-19.97	PASS
Band2	3MHz	16QAM	18615	15RB#0	-28.71	PASS
Band2	3MHz	16QAM	19185	1RB#14	-20.80	PASS
Band2	3MHz	16QAM	19185	15RB#0	-27.93	PASS
Band2	5MHz	QPSK	18625	1RB#0	-21.29	PASS
Band2	5MHz	QPSK	18625	25RB#0	-27.68	PASS
Band2	5MHz	QPSK	19175	1RB#24	-21.17	PASS
Band2	5MHz	QPSK	19175	25RB#0	-27.13	PASS
Band2	5MHz	64QAM	18625	1RB#0	-24.05	PASS
Band2	5MHz	64QAM	18625	25RB#0	-31.44	PASS
Band2	5MHz	64QAM	19175	1RB#24	-23.88	PASS
Band2	5MHz	64QAM	19175	25RB#0	-32.11	PASS



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Band2	5MHz	16QAM	18625	1RB#0	-21.21	PASS
Band2	5MHz	16QAM	18625	25RB#0	-28.57	PASS
Band2	5MHz	16QAM	19175	1RB#24	-20.98	PASS
Band2	5MHz	16QAM	19175	25RB#0	-28.32	PASS
Band2	10MHz	QPSK	18650	1RB#0	-30.65	PASS
Band2	10MHz	QPSK	18650	50RB#0	-29.04	PASS
Band2	10MHz	QPSK	19150	1RB#49	-30.29	PASS
Band2	10MHz	QPSK	19150	50RB#0	-28.42	PASS
Band2	10MHz	64QAM	18650	1RB#0	-33.81	PASS
Band2	10MHz	64QAM	18650	50RB#0	-35.01	PASS
Band2	10MHz	64QAM	19150	1RB#49	-34.40	PASS
Band2	10MHz	64QAM	19150	50RB#0	-36.27	PASS
Band2	10MHz	16QAM	18650	1RB#0	-30.83	PASS
Band2	10MHz	16QAM	18650	50RB#0	-31.22	PASS
Band2	10MHz	16QAM	19150	1RB#49	-31.36	PASS
Band2	10MHz	16QAM	19150	50RB#0	-30.94	PASS
Band2	15MHz	QPSK	18675	1RB#0	-24.73	PASS
Band2	15MHz	QPSK	18675	75RB#0	-29.33	PASS
Band2	15MHz	QPSK	19125	1RB#74	-24.53	PASS
Band2	15MHz	QPSK	19125	75RB#0	-28.92	PASS
Band2	15MHz	64QAM	18675	1RB#0	-28.09	PASS
Band2	15MHz	64QAM	18675	75RB#0	-35.67	PASS
Band2	15MHz	64QAM	19125	1RB#74	-27.71	PASS
Band2	15MHz	64QAM	19125	75RB#0	-38.03	PASS
Band2	15MHz	16QAM	18675	1RB#0	-26.06	PASS
Band2	15MHz	16QAM	18675	75RB#0	-31.70	PASS
Band2	15MHz	16QAM	19125	1RB#74	-24.51	PASS
Band2	15MHz	16QAM	19125	75RB#0	-31.41	PASS
Band2	20MHz	QPSK	18700	1RB#0	-26.54	PASS
Band2	20MHz	QPSK	18700	100RB#0	-28.52	PASS
Band2	20MHz	QPSK	19100	1RB#99	-26.30	PASS
Band2	20MHz	QPSK	19100	100RB#0	-29.15	PASS
Band2	20MHz	64QAM	18700	1RB#0	-29.65	PASS
Band2	20MHz	64QAM	18700	100RB#0	-35.86	PASS
Band2	20MHz	64QAM	19100	1RB#99	-30.11	PASS
Band2	20MHz	64QAM	19100	100RB#0	-39.18	PASS
Band2	20MHz	16QAM	18700	1RB#0	-26.67	PASS
Band2	20MHz	16QAM	18700	100RB#0	-31.31	PASS



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Band2	20MHz	16QAM	19100	1RB#99	-27.66	PASS
Band2	20MHz	16QAM	19100	100RB#0	-32.48	PASS

5.2. Test Plots



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Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#5



Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-64QAM-18607-1RB#0



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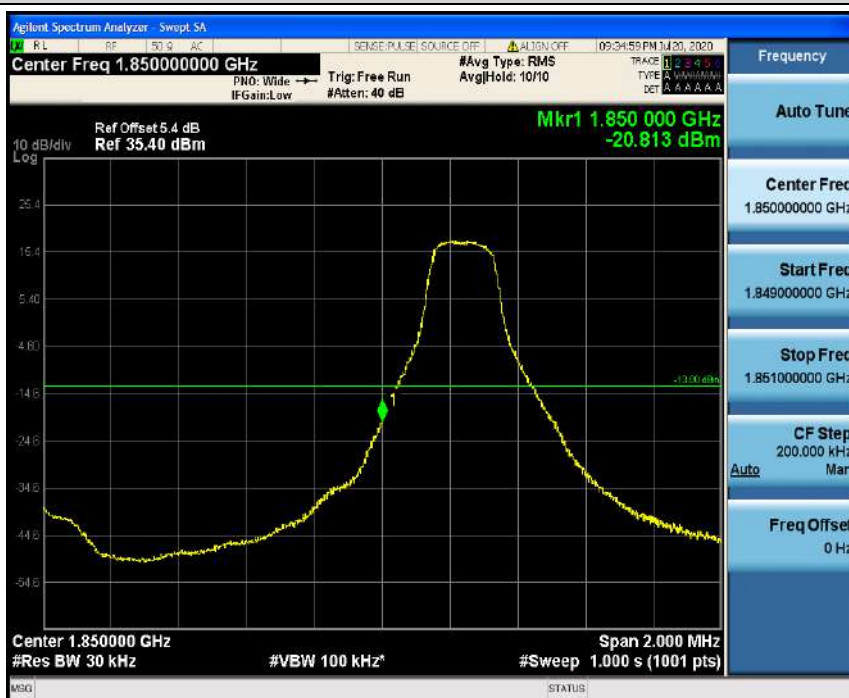
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Band2-3MHz-QPSK-19185-1RB#14



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Band2-3MHz-QPSK-19185-15RB#0



Band2-3MHz-64QAM-18615-1RB#0



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Band2-3MHz-64QAM-19185-1RB#14



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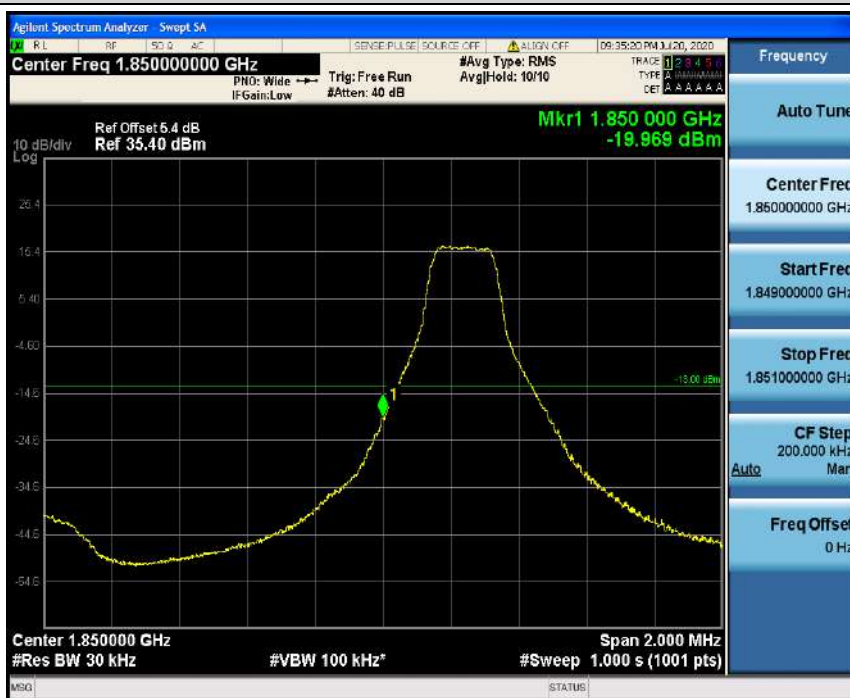
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Band2-3MHz-16QAM-18615-1RB#0



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Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-19185-1RB#14



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Band2-5MHz-QPSK-19175-1RB#24



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Band2-10MHz-QPSK-19150-1RB#49



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Band2-15MHz-QPSK-19125-1RB#74



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Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-19125-1RB#74





Band2-15MHz-16QAM-19125-75RB#0



Band2-20MHz-QPSK-18700-1RB#0





Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-19100-1RB#99



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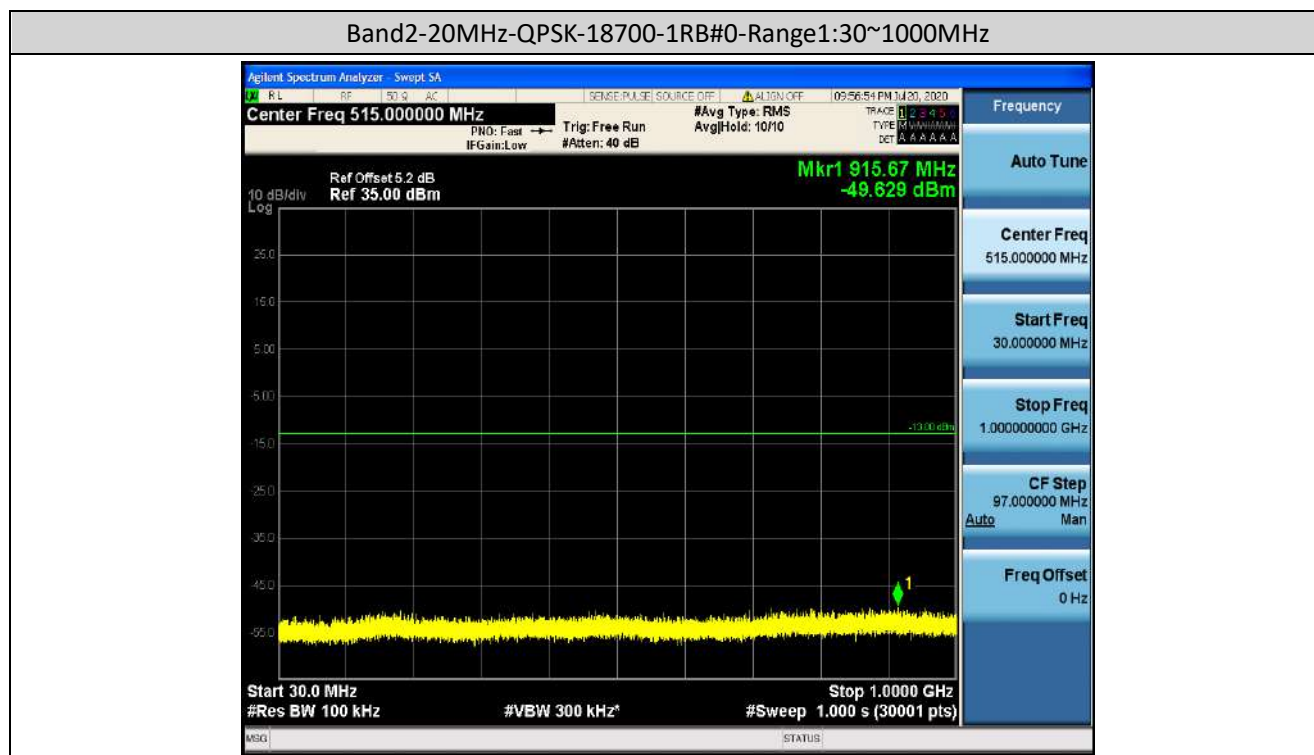
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6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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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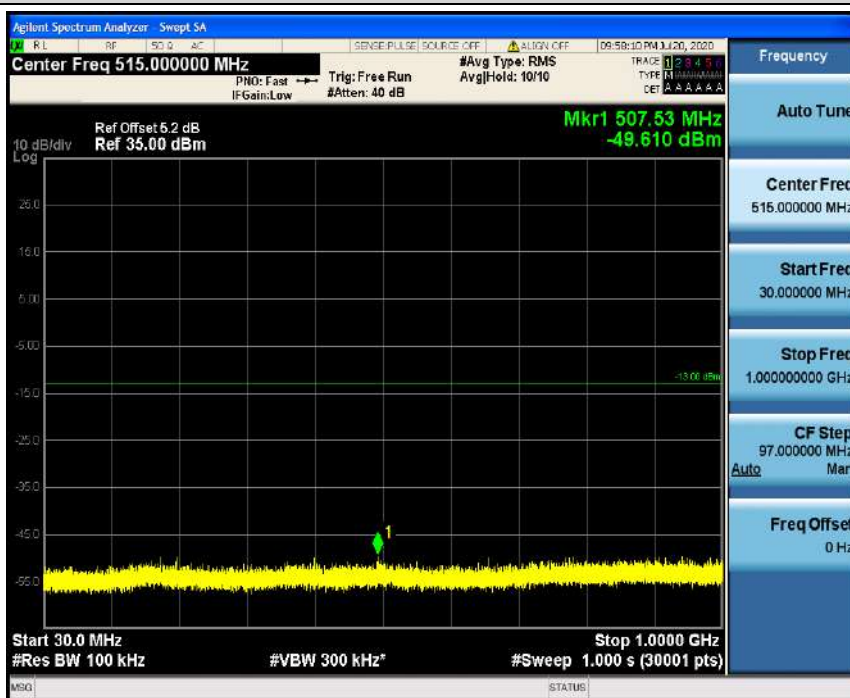
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Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz



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Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz



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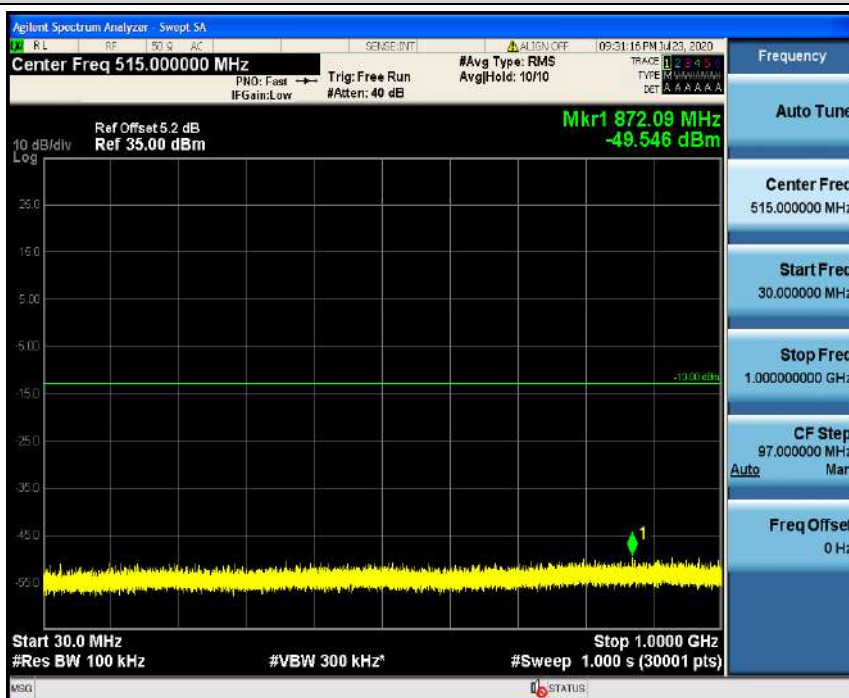
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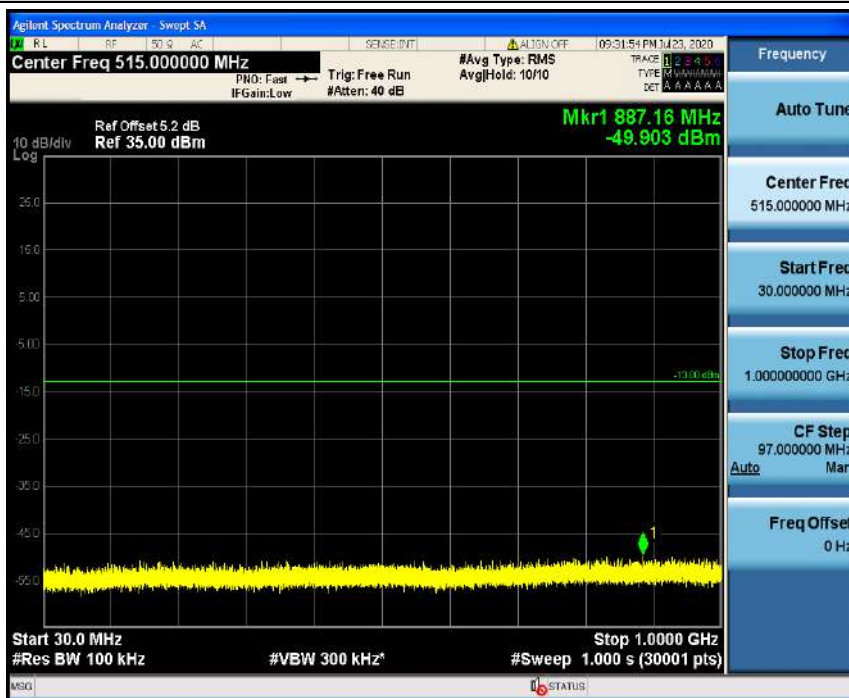
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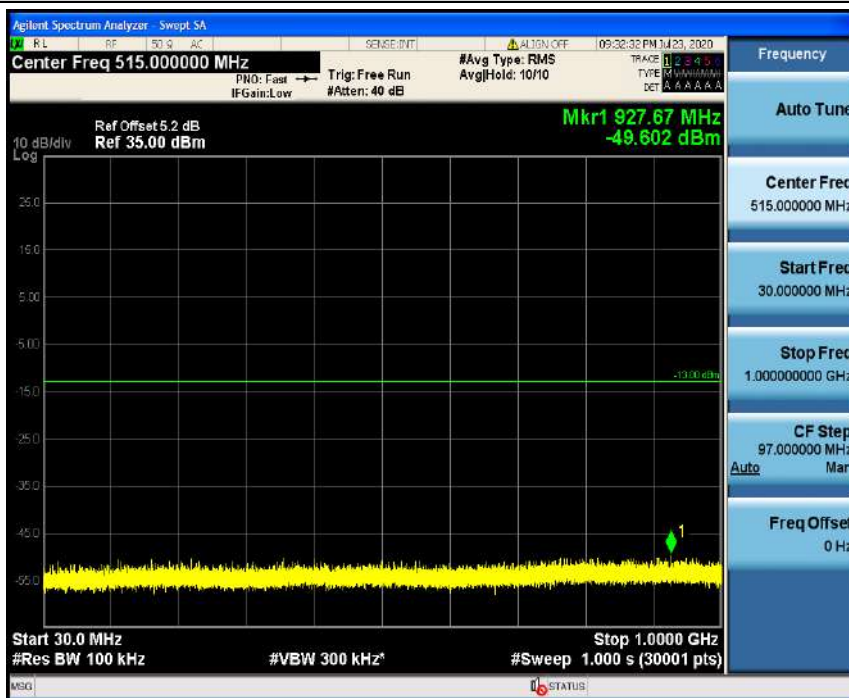


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Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



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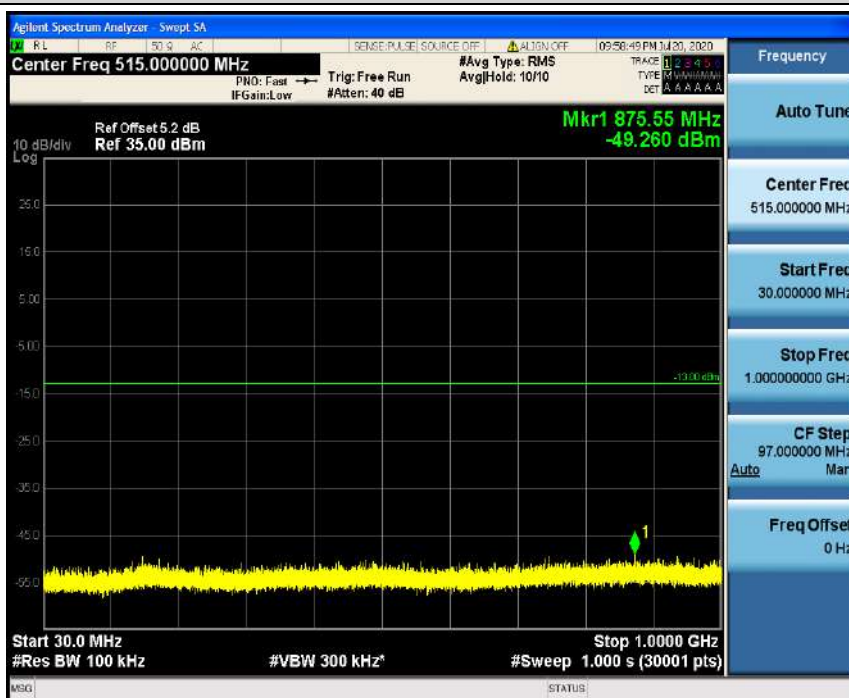
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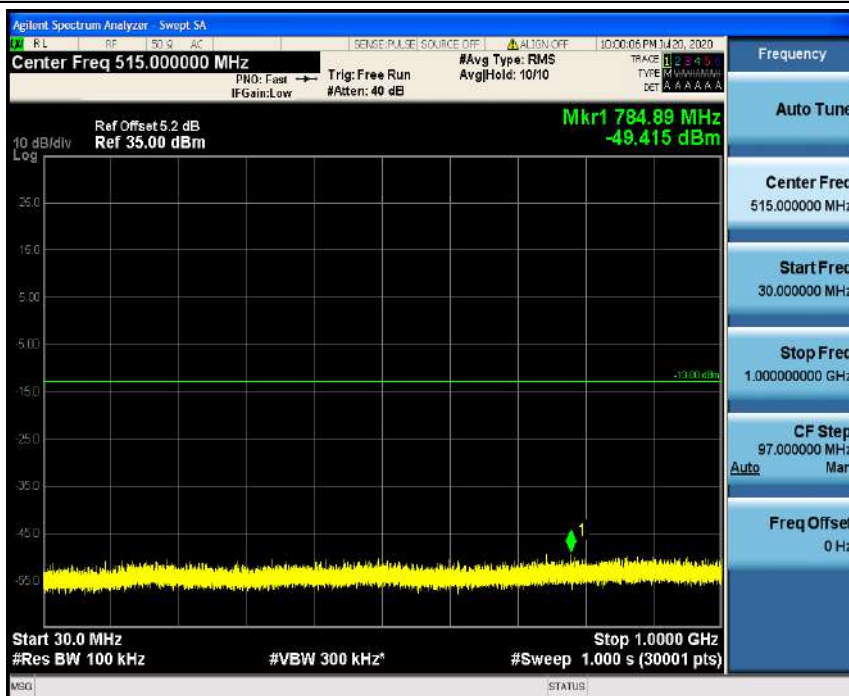
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Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz



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Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.9505	-65.66	-13.00	52.66	271	99	Vertical
343.3257	-68.73	-13.00	55.73	254	67	Vertical
3702.0234	-49.75	-13.00	36.75	269	228	Vertical
5553.0851	-54.94	-13.00	41.94	254	228	Vertical
7404.1468	-45.91	-13.00	32.91	226	356	Vertical
9255.7085	-50.27	-13.00	37.27	263	35	Vertical
42.4166	-64.54	-13.00	51.54	198	196	Horizontal
101.5411	-75.47	-13.00	62.47	174	356	Horizontal
242.8771	-68.55	-13.00	55.55	169	260	Horizontal
3702.0234	-49.85	-13.00	36.85	175	356	Horizontal
5553.0851	-55.08	-13.00	42.08	162	100	Horizontal
7404.1468	-52.77	-13.00	39.77	198	36	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
54.4937	-72.50	-13.00	59.50	184	100	Vertical
109.8835	-65.33	-13.00	52.33	175	355	Vertical
603.4442	-62.91	-13.00	49.91	196	324	Vertical
3742.0247	-51.30	-13.00	38.30	184	228	Vertical
5613.0871	-55.39	-13.00	42.39	187	228	Vertical
7484.1495	-47.82	-13.00	34.82	162	355	Vertical
40.9615	-64.47	-13.00	51.47	174	228	Horizontal
231.1396	-68.69	-13.00	55.69	199	163	Horizontal
3742.0247	-52.95	-13.00	39.95	187	132	Horizontal
5613.0871	-57.97	-13.00	44.97	169	68	Horizontal
7484.6495	-54.35	-13.00	41.35	184	100	Horizontal
16395.4465	-43.66	-13.00	30.66	175	4	Horizontal





7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
47.2669	-72.22	-13.00	59.22	271	132	Vertical
112.9876	-65.31	-13.00	52.31	222	228	Vertical
378.5869	-68.48	-13.00	55.48	284	100	Vertical
3782.0261	-51.11	-13.00	38.11	263	228	Vertical
5673.5891	-56.45	-13.00	43.45	278	196	Vertical
7564.1521	-50.13	-13.00	37.13	261	4	Vertical
42.2226	-64.43	-13.00	51.43	241	360	Horizontal
235.4078	-67.92	-13.00	54.92	285	333	Horizontal
500.2310	-66.04	-13.00	53.04	262	204	Horizontal
3782.0261	-49.32	-13.00	36.32	271	360	Horizontal
5673.0891	-57.21	-13.00	44.21	295	71	Horizontal
16393.9465	-43.48	-13.00	30.48	281	360	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 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 displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	-1.90	-0.001022	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	-2.50	-0.001344	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-0.90	-0.000484	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	2.70	0.001436	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	1.90	0.001011	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	2.60	0.001383	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-1.90	-0.001000	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-2.70	-0.001421	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-4.10	-0.002158	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VL	NT	1.80	0.000968	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VN	NT	3.60	0.001935	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VH	NT	1.00	0.000538	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VL	NT	3.50	0.001862	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VN	NT	2.90	0.001543	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VH	NT	3.40	0.001809	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VL	NT	-3.00	-0.001579	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VN	NT	-0.30	-0.000158	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VH	NT	-0.30	-0.000158	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	-0.70	-0.000376	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	-0.30	-0.000161	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	5.20	0.002796	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	2.40	0.001277	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	1.40	0.000745	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	1.90	0.001011	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-2.90	-0.001526	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-1.20	-0.000632	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-2.30	-0.001211	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	2.00	0.001075	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	4.10	0.002204	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-10	3.75	0.002016	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	1.50	0.000806	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	3.50	0.001882	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	5.70	0.003065	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-2.60	-0.001398	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-0.30	-0.000161	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	5.40	0.002903	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	2.40	0.001277	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	3.00	0.001596	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	4.20	0.002234	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	0.50	0.000266	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	3.80	0.002021	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	4.60	0.002447	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	2.20	0.001170	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	0.10	0.000053	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	2.90	0.001543	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	0.10	0.000053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-2.40	-0.001263	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-10	-3.84	-0.001883	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-0.90	-0.000474	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-2.00	-0.001053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-3.70	-0.001947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-2.40	-0.001263	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-2.90	-0.001526	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-2.00	-0.001053	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-30	1.30	0.000699	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-20	3.20	0.001720	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-10	2.76	0.001484	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	0	0.40	0.000215	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	10	2.10	0.001129	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	20	2.30	0.001237	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	30	3.10	0.001667	±2.5	PASS



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Band2	20MHz	64QAM	18700	100RB#0	NV	40	3.20	0.001720	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	50	2.80	0.001505	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-30	3.40	0.001809	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-20	0.20	0.000106	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-10	1.98	0.001053	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	0	0.70	0.000372	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	10	1.00	0.000532	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	20	-1.10	-0.000585	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	30	0.70	0.000372	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	40	-0.10	-0.000053	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	50	2.80	0.001489	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-30	-0.70	-0.000368	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-20	-3.30	-0.001737	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-10	-4.52	-0.002379	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	0	-2.90	-0.001526	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	10	-3.60	-0.001895	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	20	-1.90	-0.001000	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	30	-3.70	-0.001947	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	40	-1.50	-0.000789	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	50	-1.80	-0.000947	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	-1.00	-0.000538	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	-2.20	-0.001183	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-10	-2.28	-0.001226	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	1.10	0.000591	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	-1.80	-0.000968	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	0.20	0.000108	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	1.60	0.000860	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	1.60	0.000860	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	-1.70	-0.000914	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	2.60	0.001383	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	1.00	0.000532	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-10	1.33	0.000707	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	3.40	0.001809	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	2.60	0.001383	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	1.40	0.000745	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	4.00	0.002128	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	3.30	0.001755	±2.5	PASS



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Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-1.60	-0.000842	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-1.20	-0.000632	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-10	-2.66	-0.001400	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-3.30	-0.001737	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-2.70	-0.001421	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-1.50	-0.000789	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-1.60	-0.000842	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-4.00	-0.002105	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-3.70	-0.001947	±2.5	PASS



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