

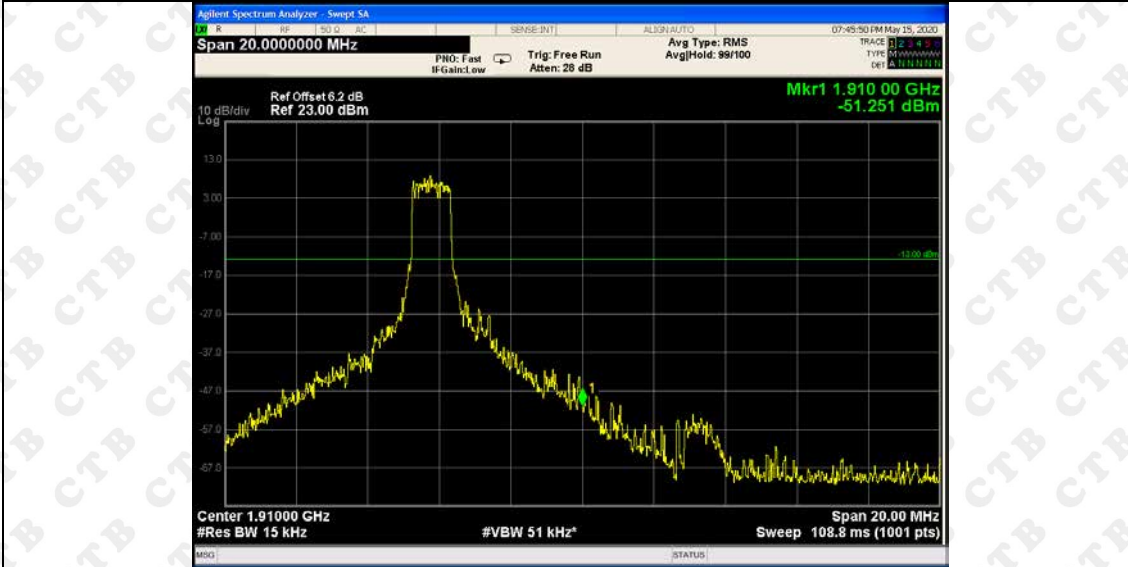
(Channel Bandwidth: 5 MHz)_LCH_16QAM_5RB#0



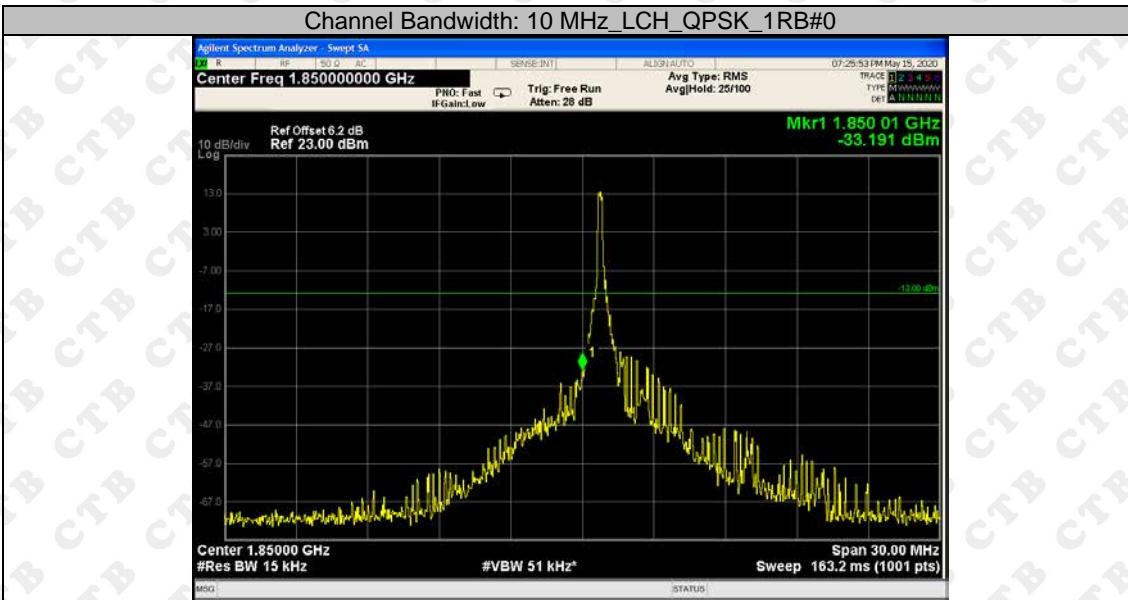
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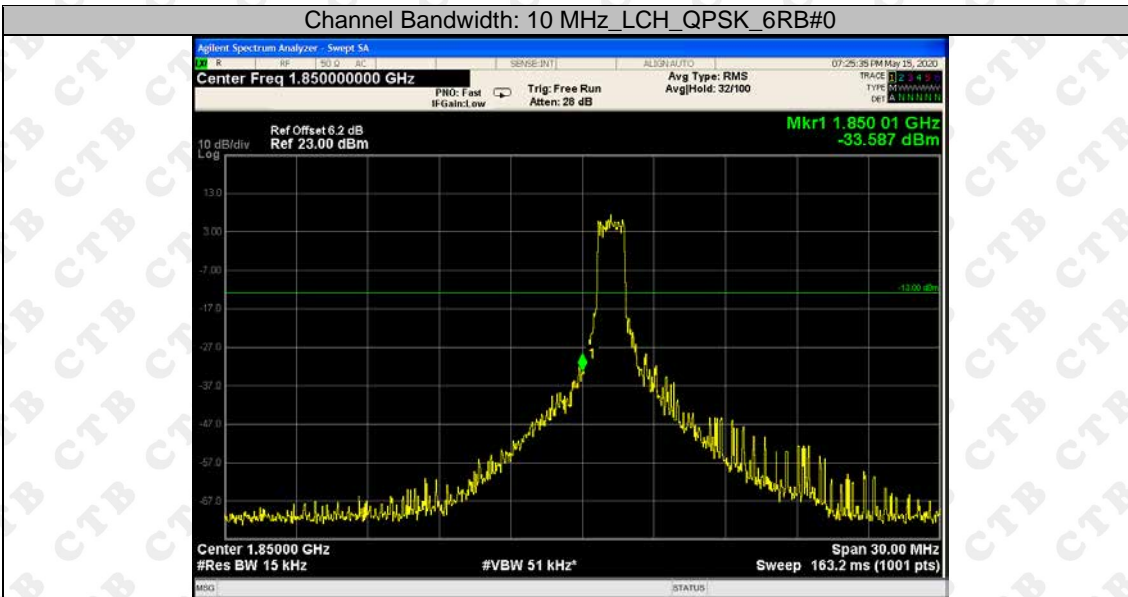
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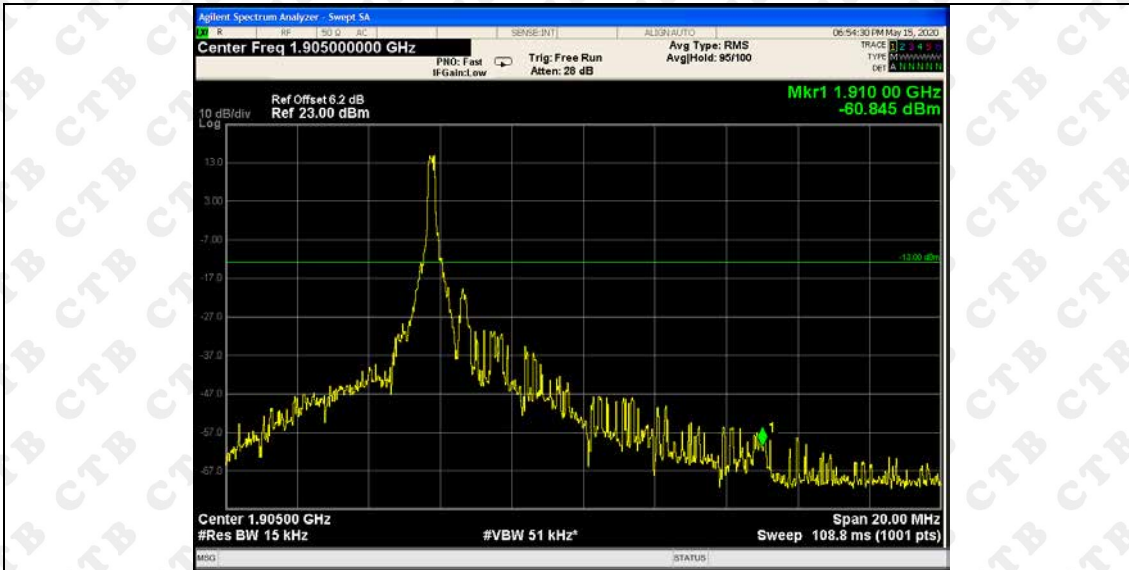
Channel Bandwidth: 10 MHz



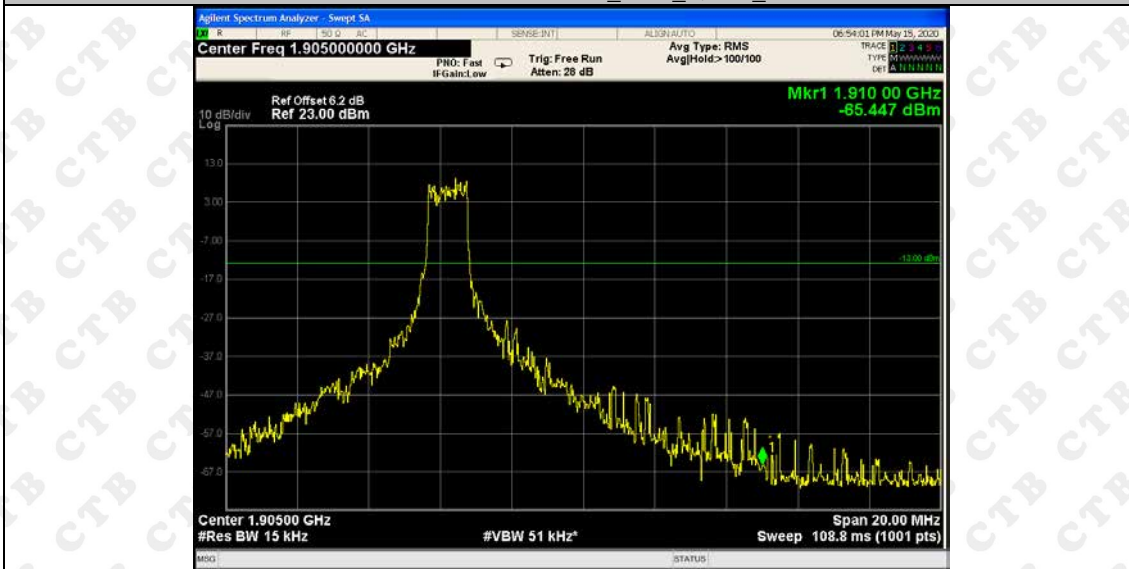
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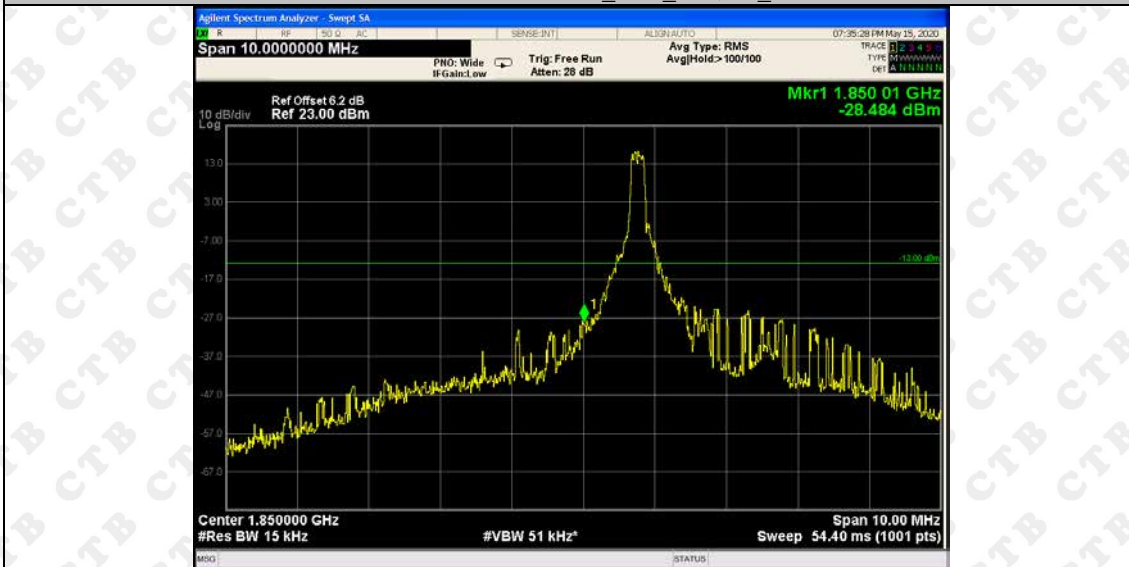
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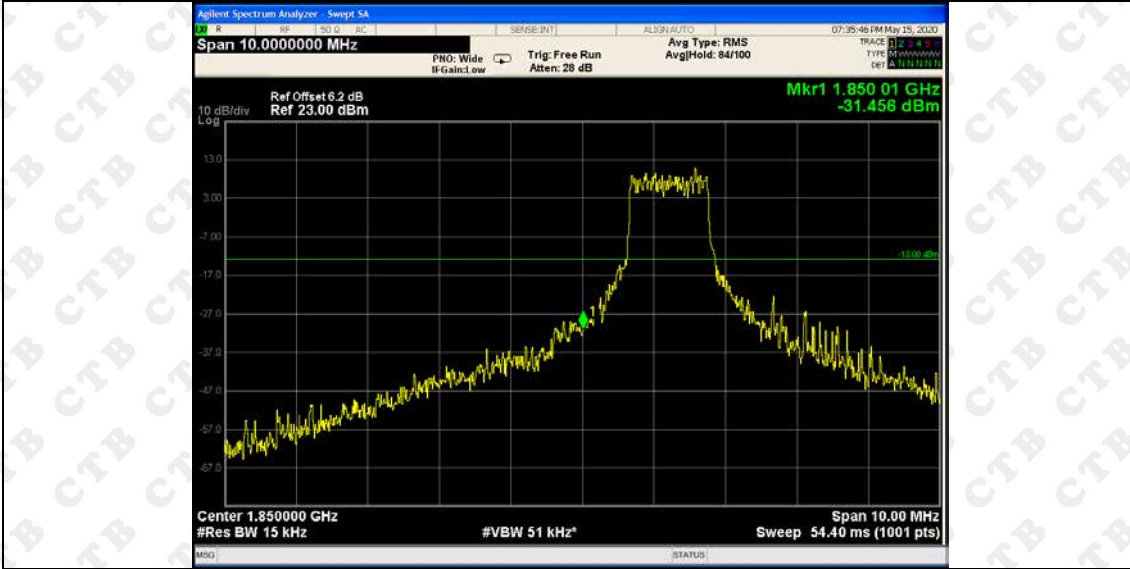
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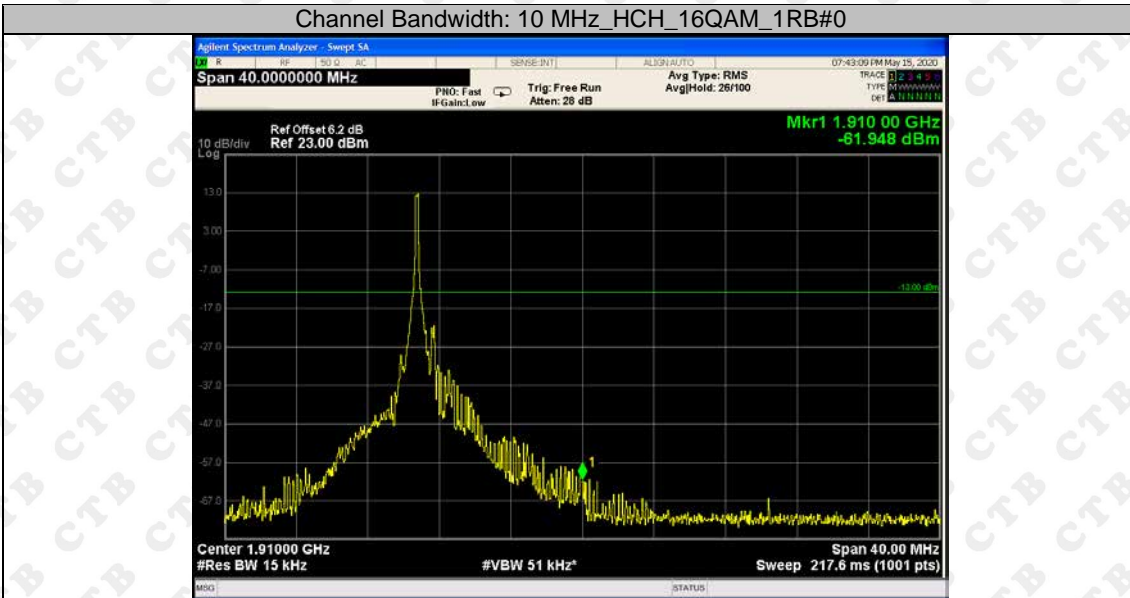
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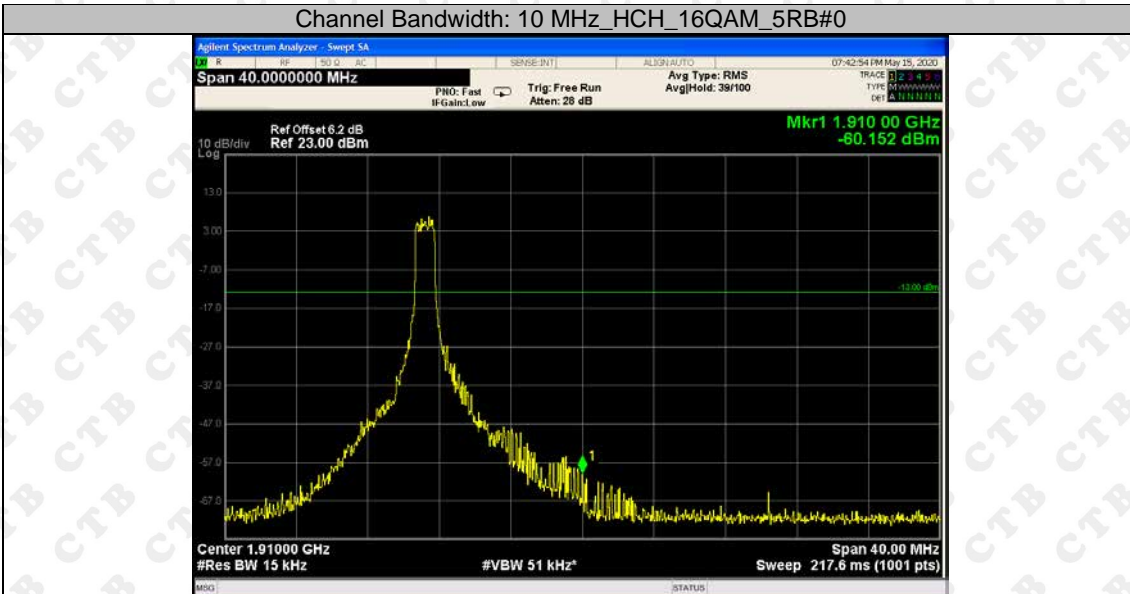
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Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

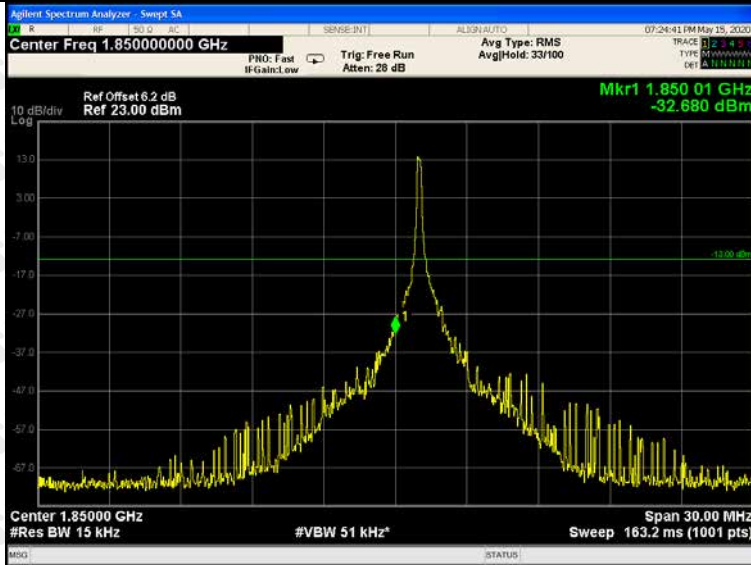


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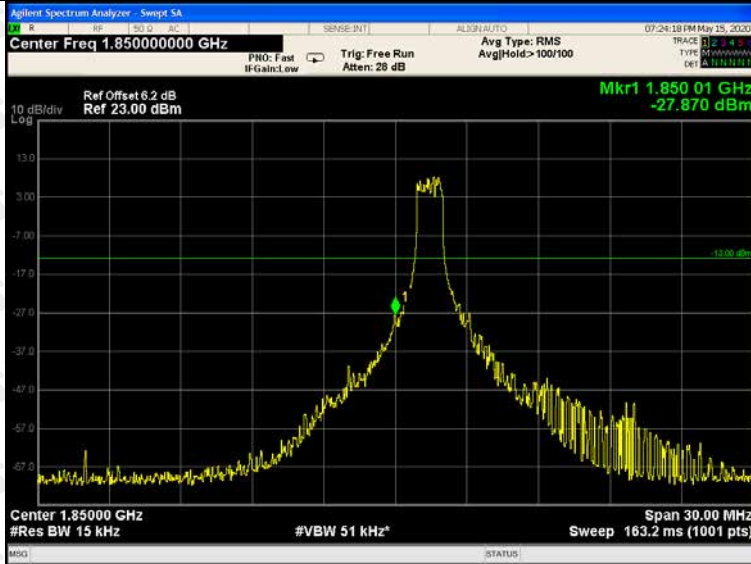


Channel Bandwidth: 15 MHz

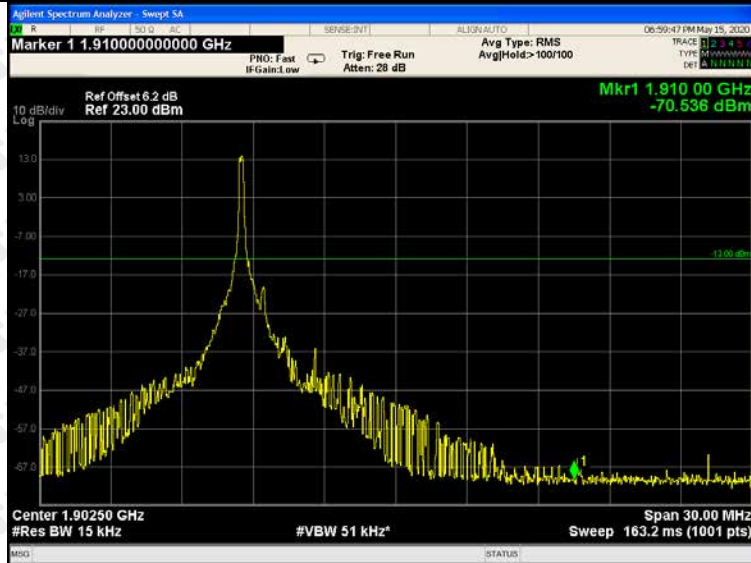
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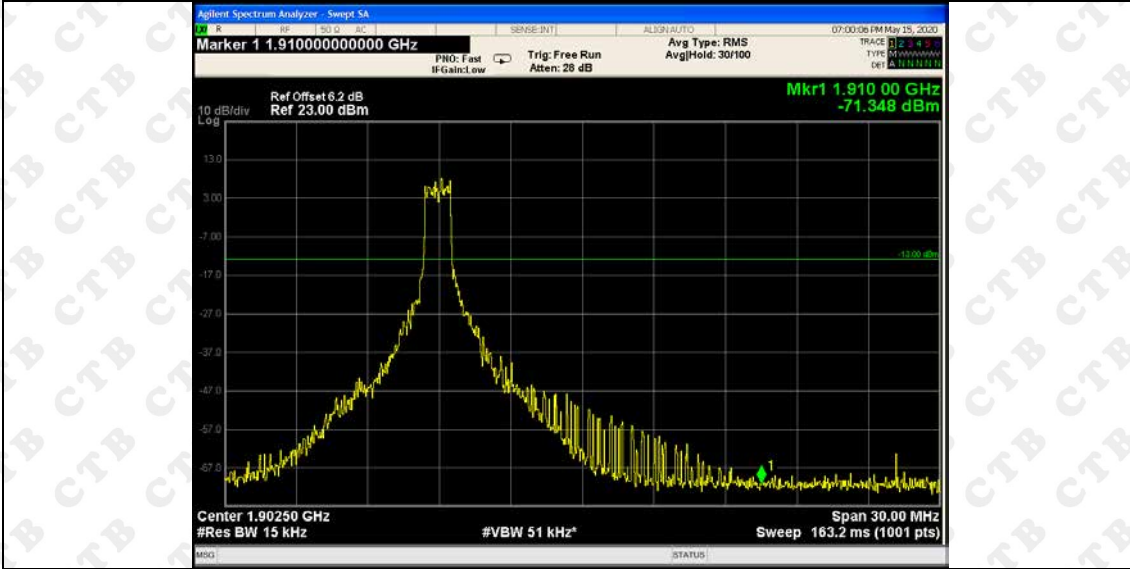
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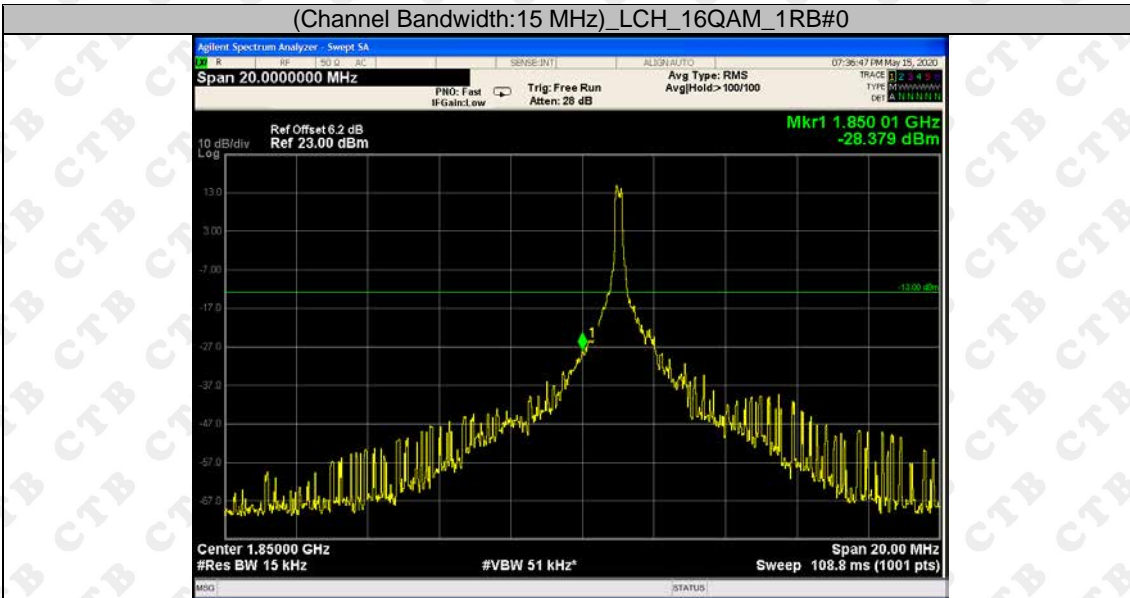
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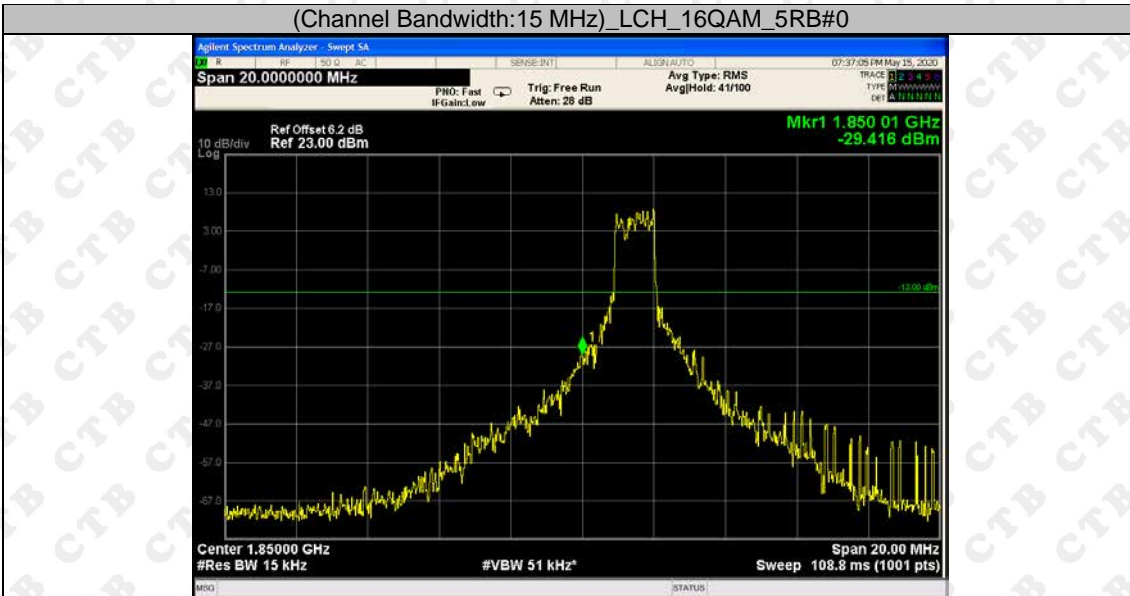
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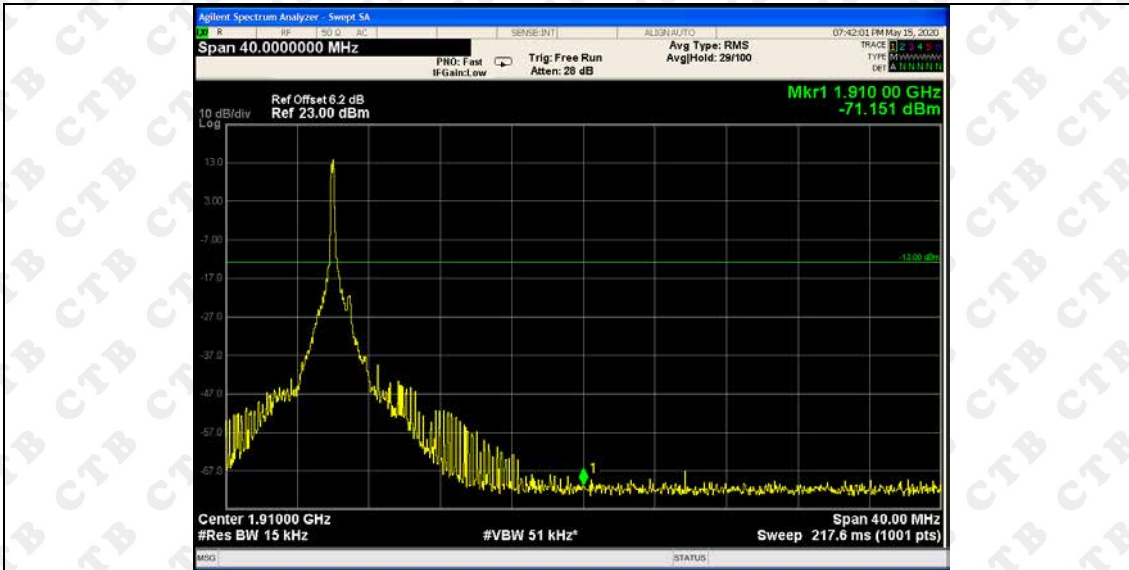
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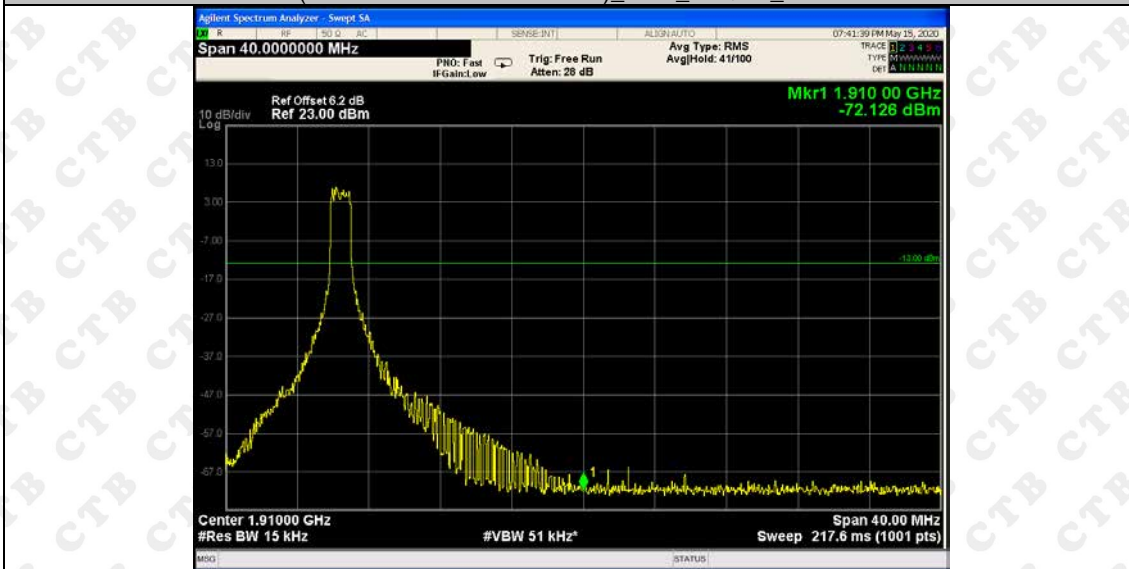
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(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

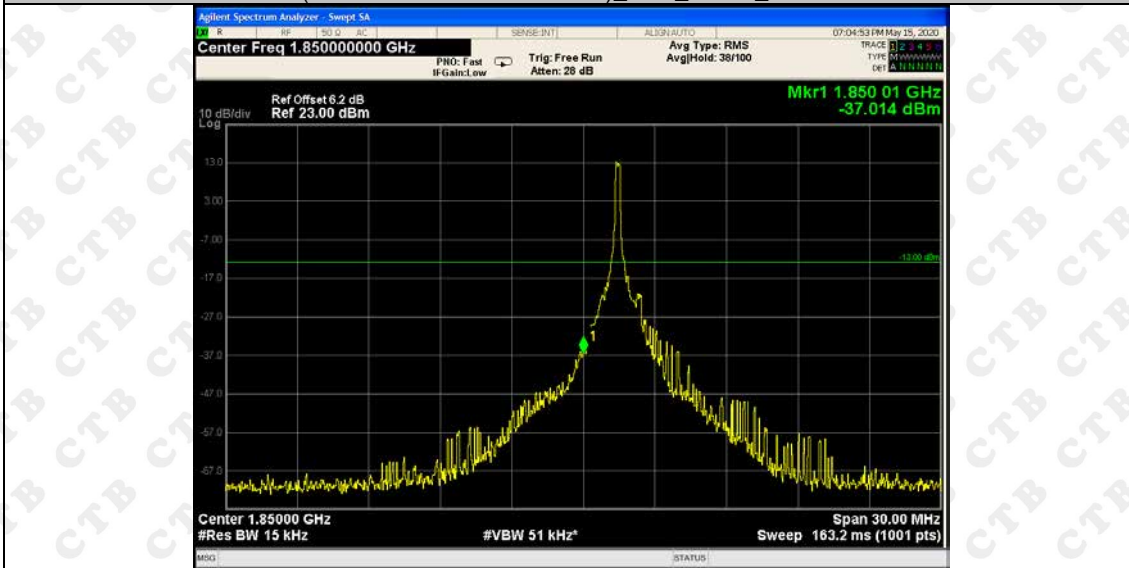


(Channel Bandwidth:15 MHz)_HCH_16QAM_5RB#0

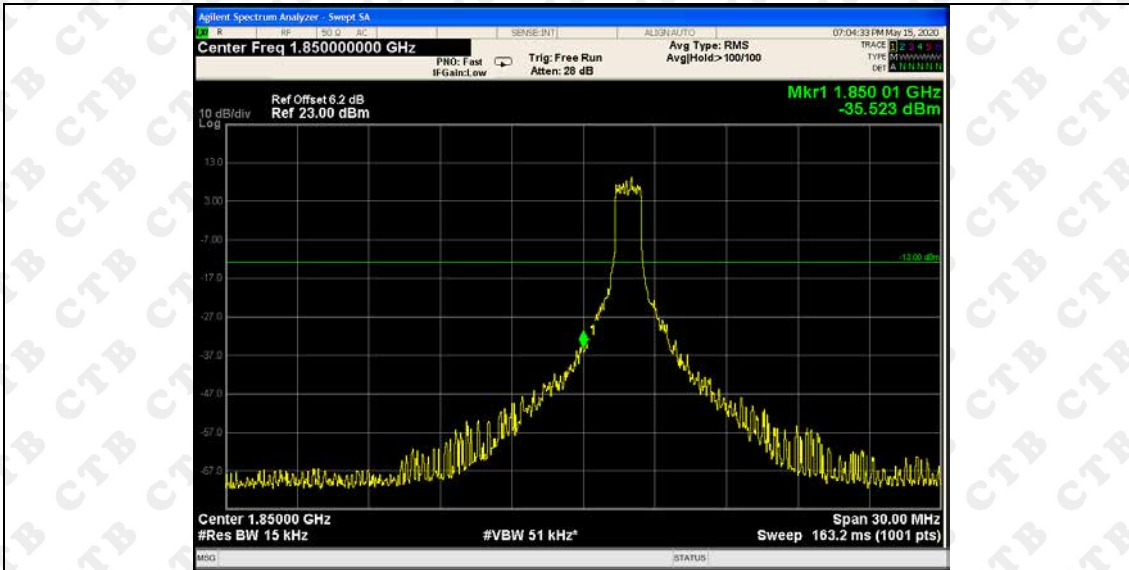


Channel Bandwidth: 20 MHz

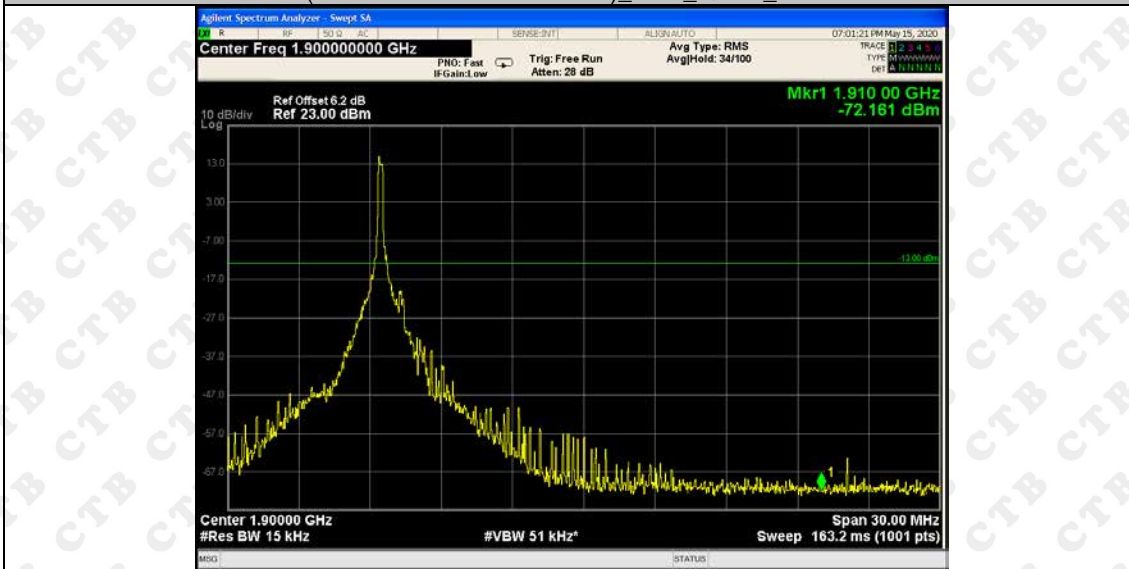
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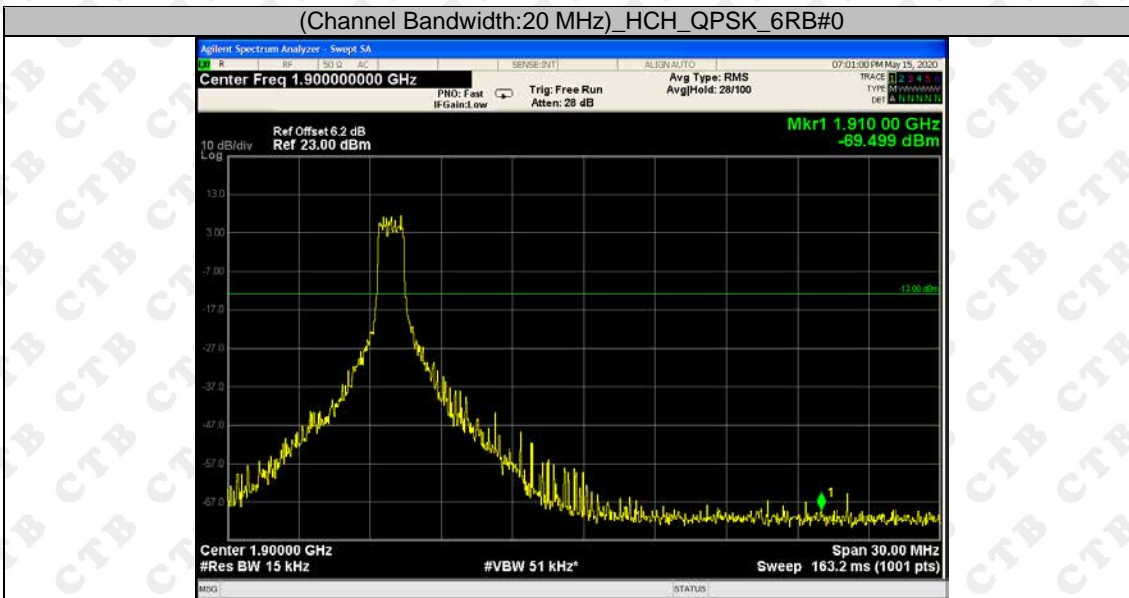
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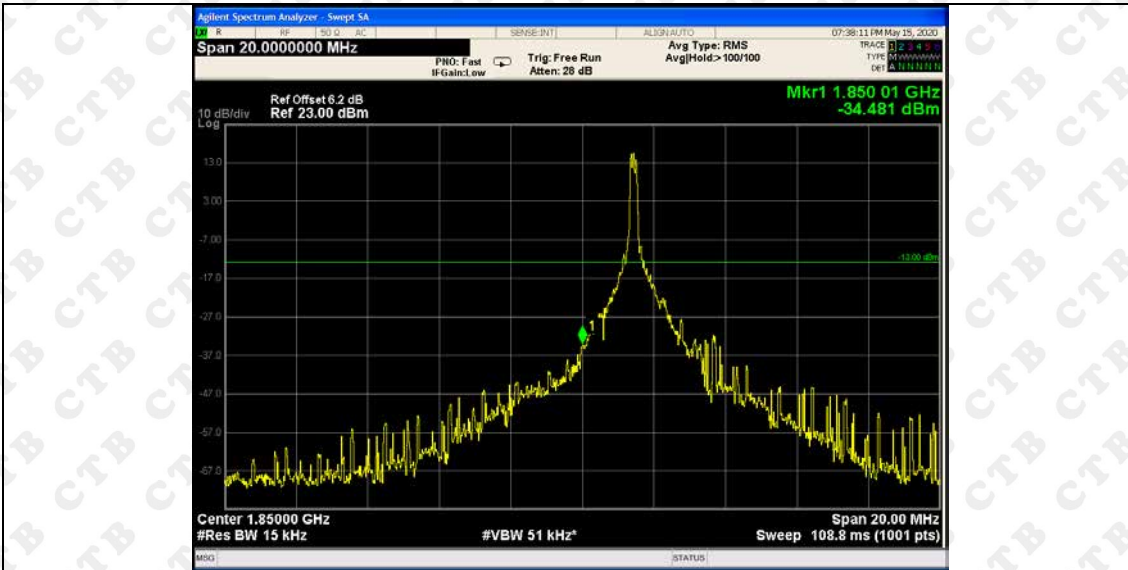
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0



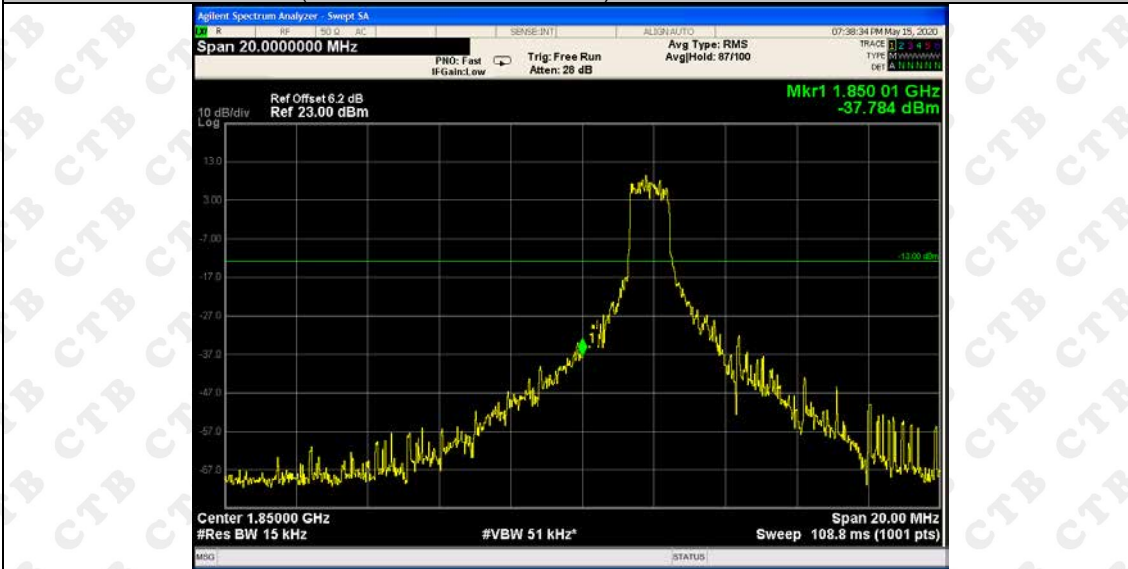
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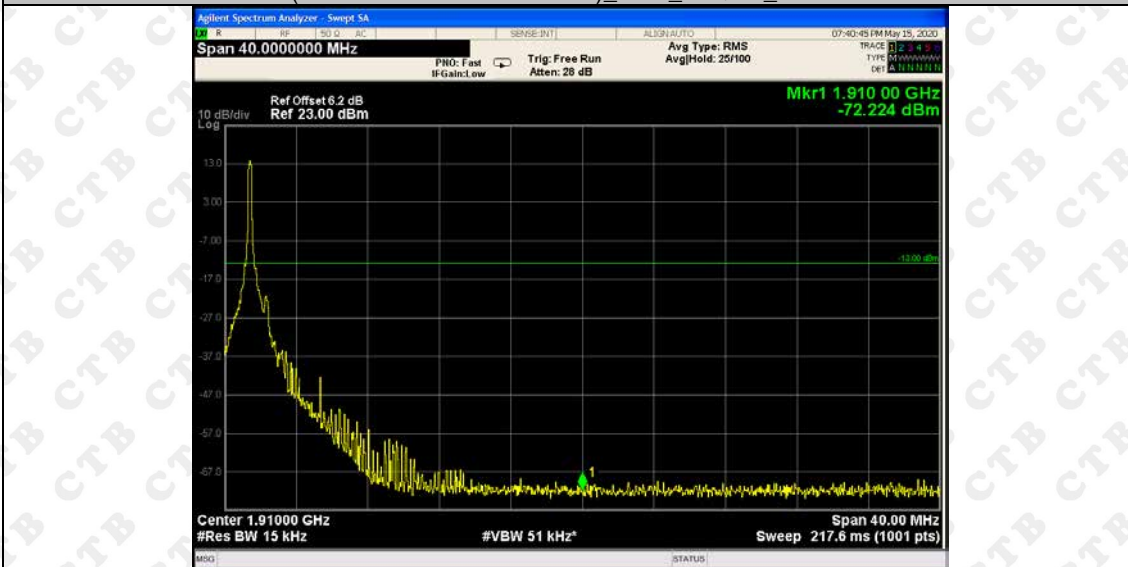
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_LCH_16QAM_5RB#0



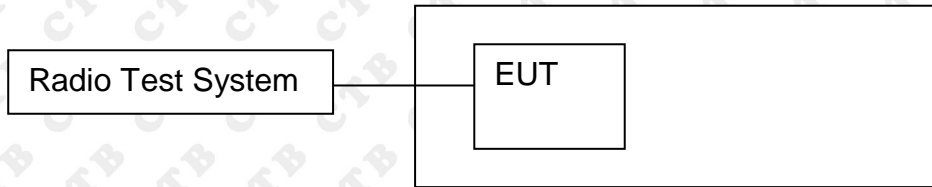
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0





11. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

11.1 Block Diagram Of Test Setup



11.2 Limit

(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Limit	-13 dBm
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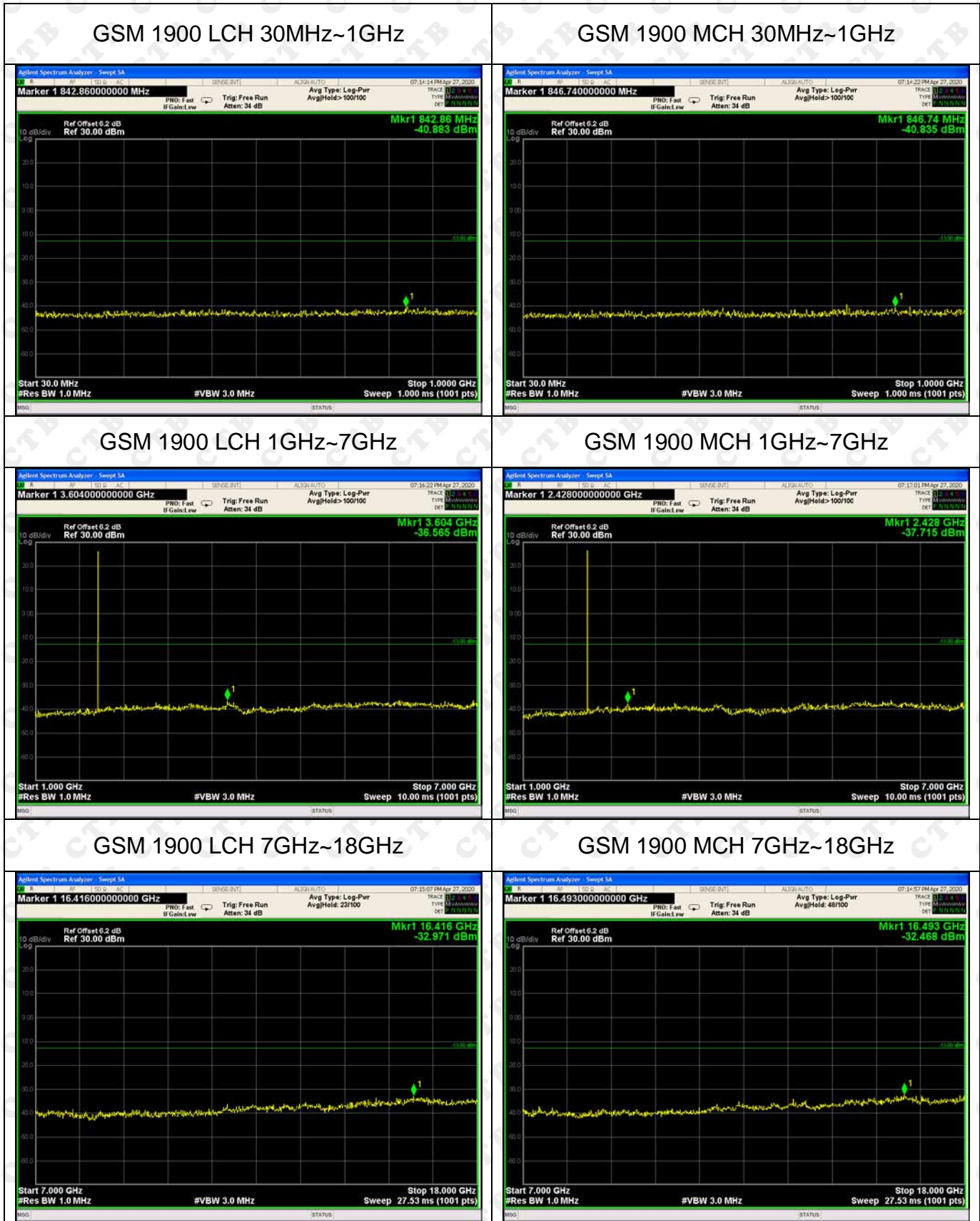
11.3 Test procedure

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).the equipment operates below 10GHz: to the tenth harmonic of the highest fundamental frequency or to 40GHz.whichever is lower, the resolution bandwidth of the spectrum analyzer was set at 100kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.the video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to PK.

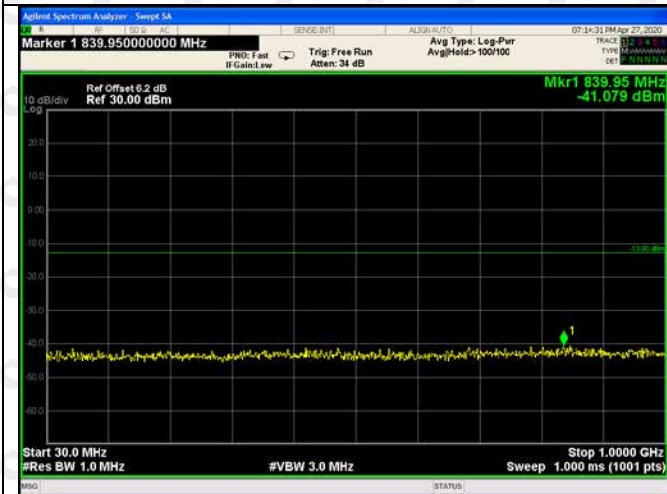
11.4 Test Result

Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

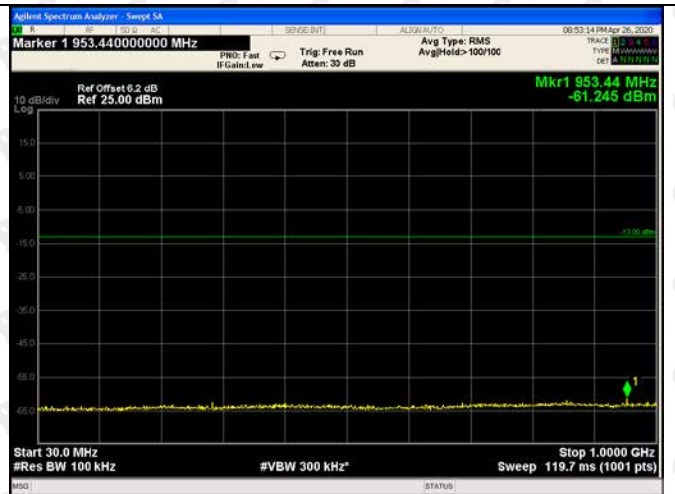
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.



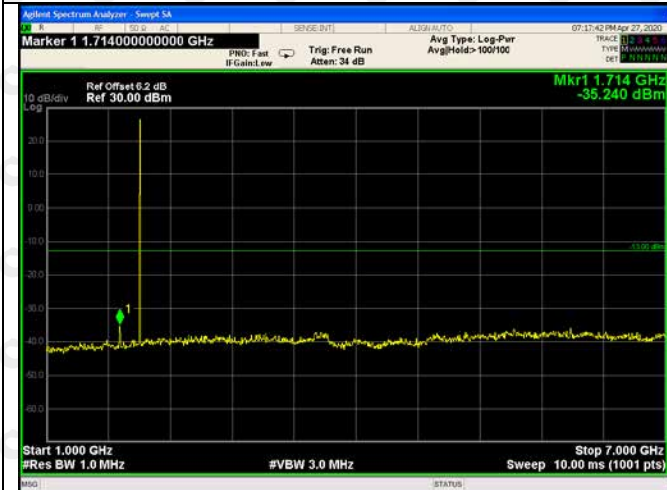
GSM 1900 HCH 30MHz~1GHz



LTE Band 2 1.4MHz LCH 30MHz~1GHz



GSM 1900 HCH 1GHz~7GHz



LTE Band 2 1.4MHz LCH 1GHz~7GHz

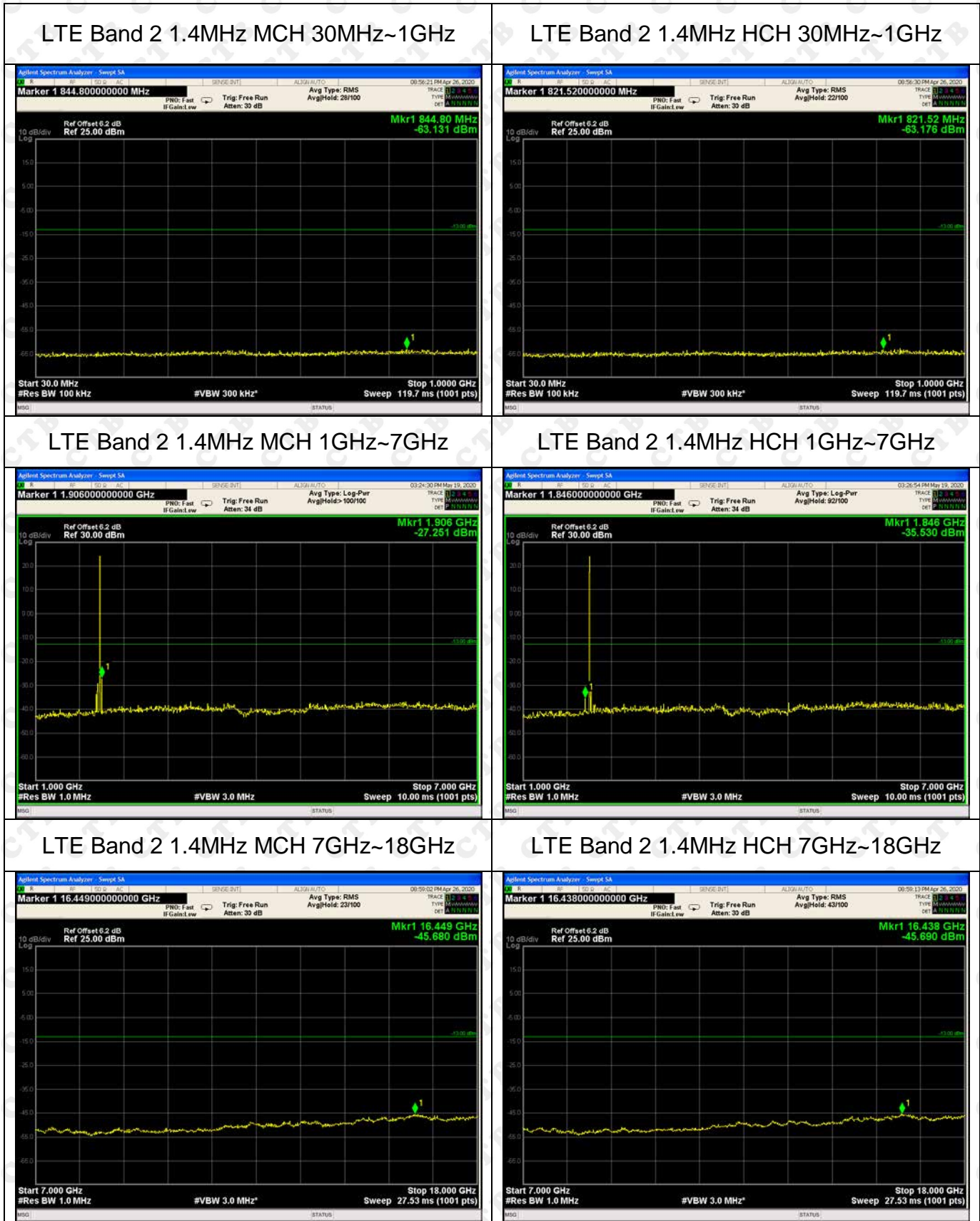


GSM 1900 HCH 7GHz~18GHz

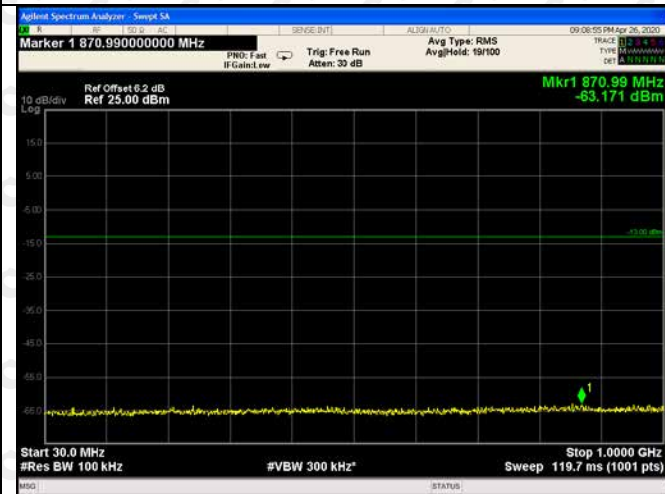


LTE Band 2 1.4MHz LCH 7GHz~18GHz

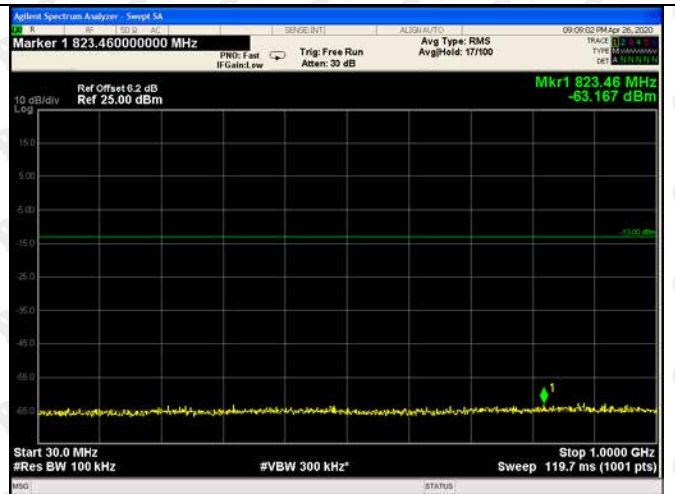




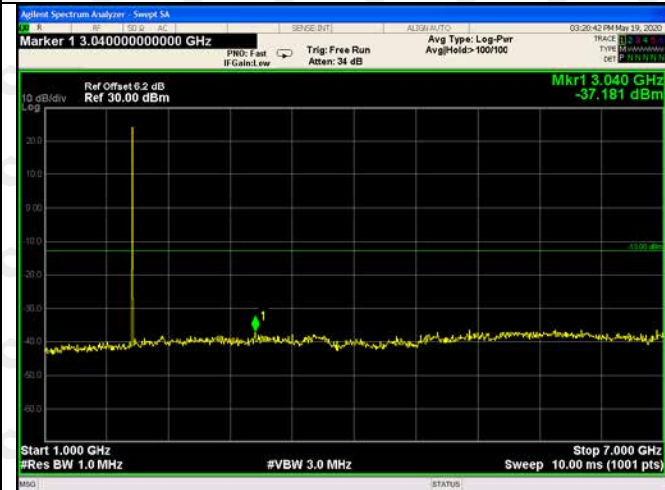
LTE Band 2 3MHz LCH 30MHz~1GHz



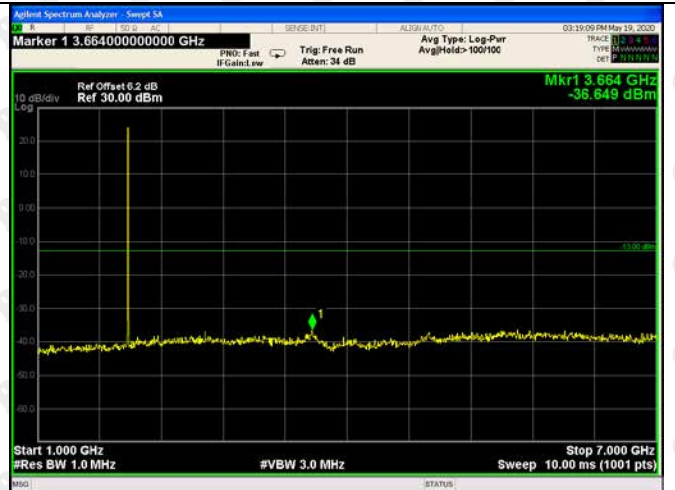
LTE Band 2 3MHz MCH 30MHz~1GHz



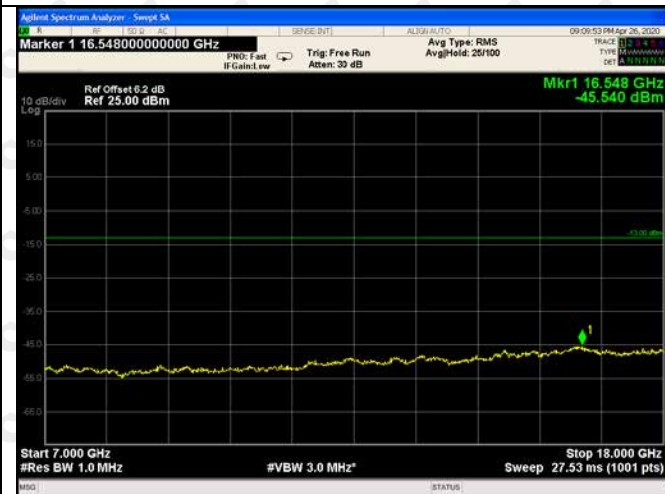
LTE Band 2 3MHz LCH 1GHz~7GHz



LTE Band 2 3MHz MCH 1GHz~7GHz



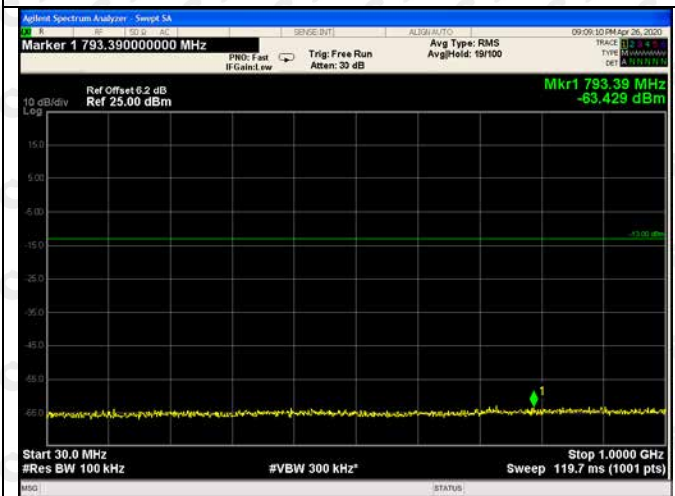
LTE Band 2 3MHz LCH 7GHz~18GHz



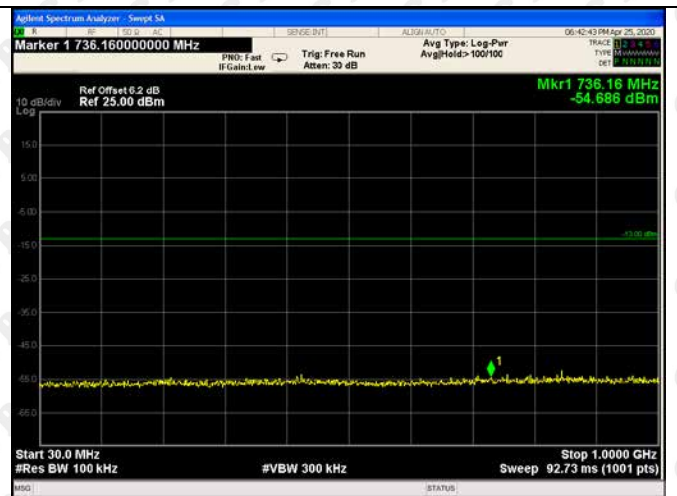
LTE Band 2 3MHz MCH 7GHz~18GHz



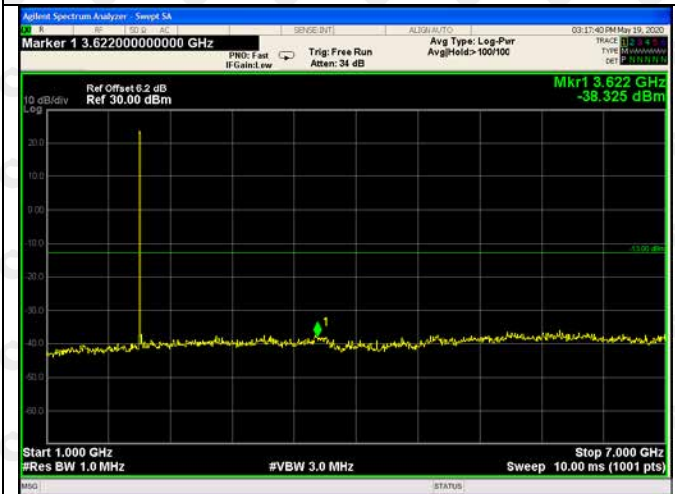
LTE Band 2 3MHz HCH 30MHz~1GHz



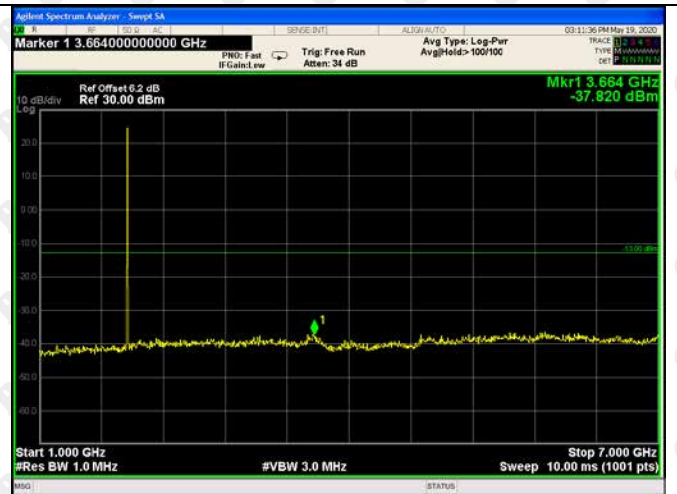
LTE Band 2 5MHz LCH 30MHz~1GHz



LTE Band 2 3MHz HCH 1GHz~7GHz



LTE Band 2 5MHz LCH 1GHz~7GHz



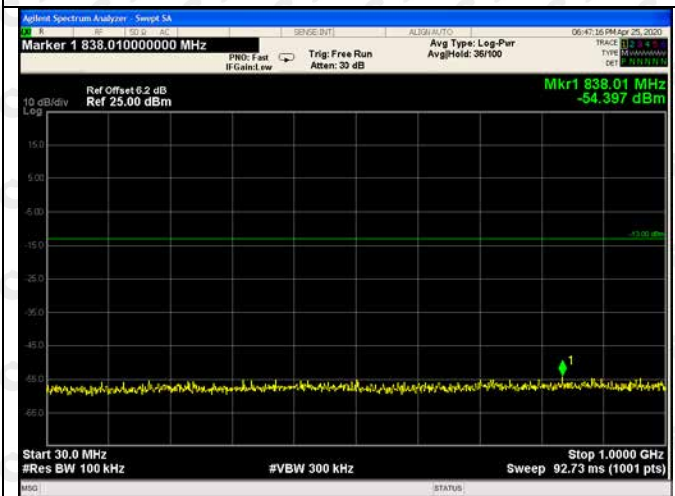
LTE Band 2 3MHz HCH 7GHz~18GHz



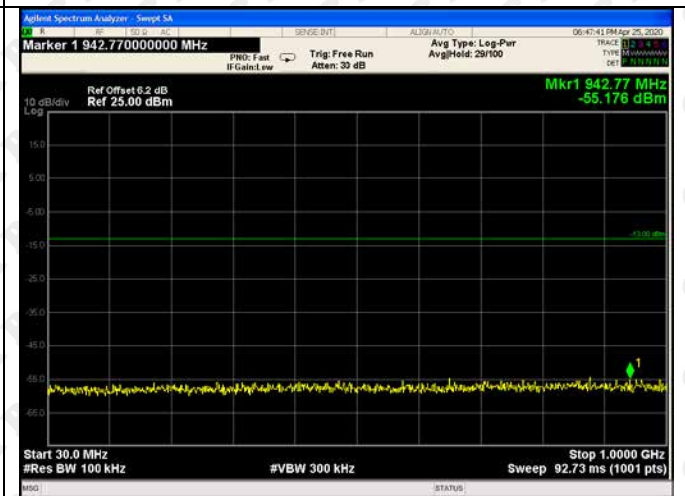
LTE Band 2 5MHz LCH 7GHz~18GHz



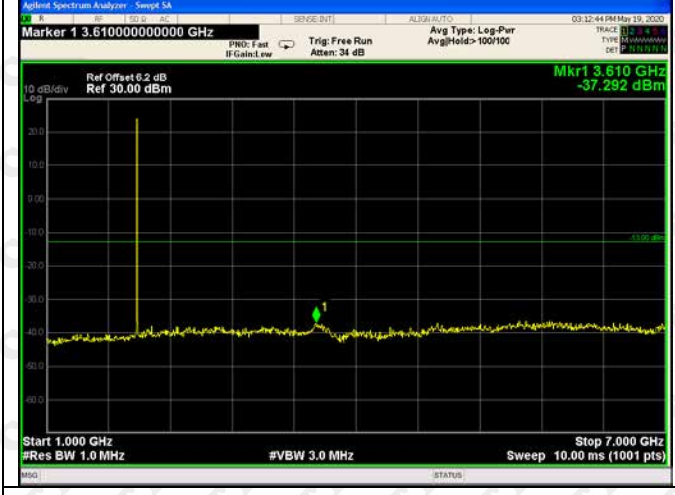
LTE Band 2 5MHz MCH 30MHz~1GHz



LTE Band 2 5MHz HCH 30MHz~1GHz



LTE Band 2 5MHz MCH 1GHz~7GHz



LTE Band 2 5MHz HCH 1GHz~7GHz



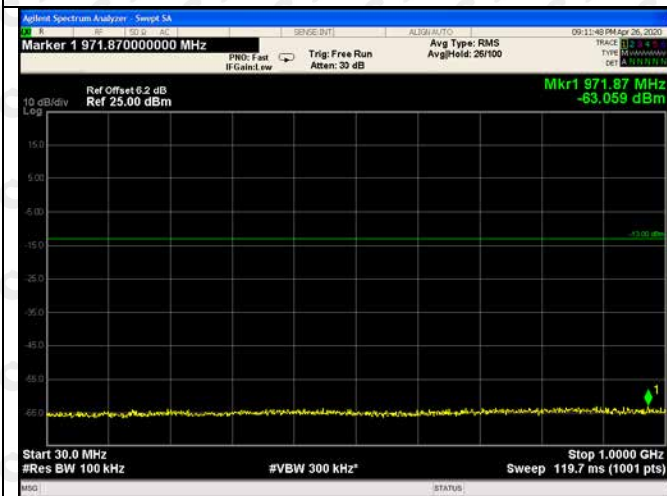
LTE Band 2 5MHz MCH 7GHz~18GHz



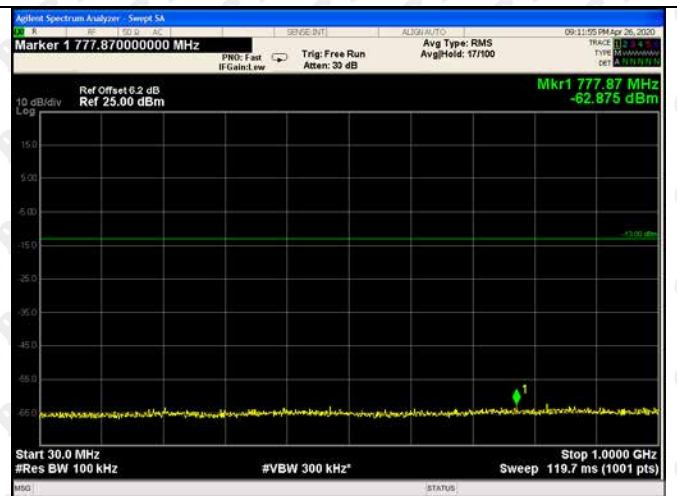
LTE Band 2 5MHz HCH 7GHz~18GHz



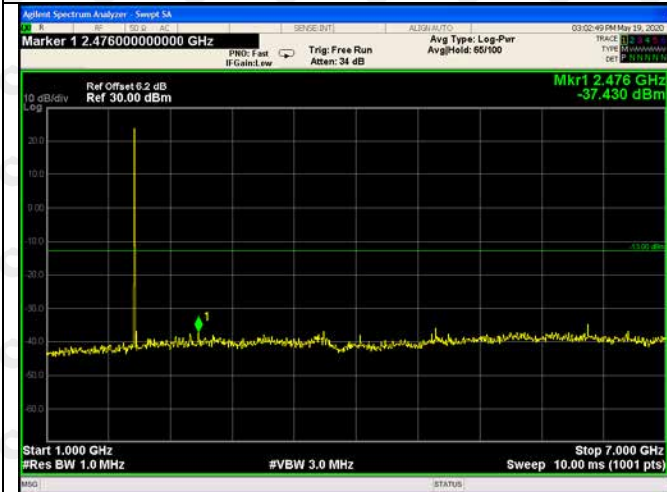
LTE Band 2 10MHz LCH 30MHz~1GHz



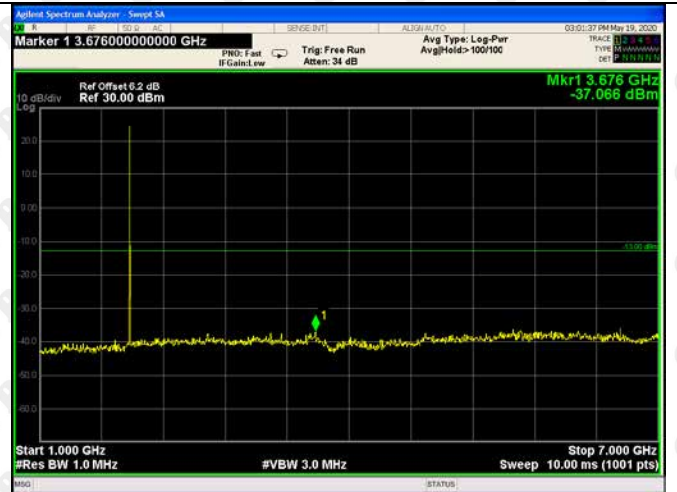
LTE Band 2 10MHz MCH 30MHz~1GHz



LTE Band 2 10MHz LCH 1GHz~7GHz



LTE Band 2 10MHz MCH 1GHz~7GHz



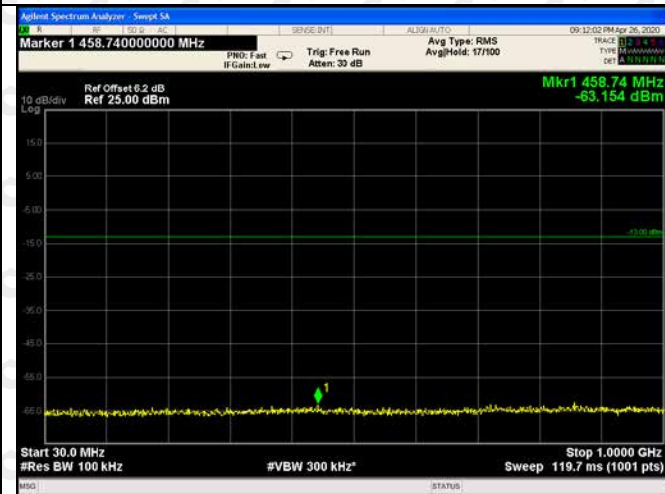
LTE Band 2 10MHz LCH 7GHz~18GHz



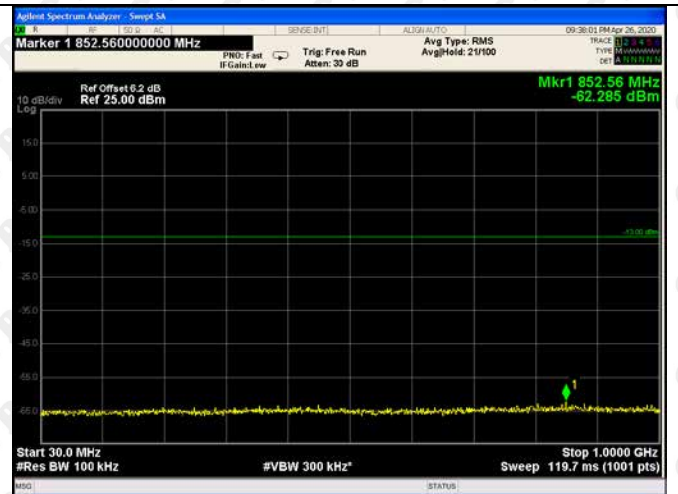
LTE Band 2 10MHz MCH 7GHz~18GHz



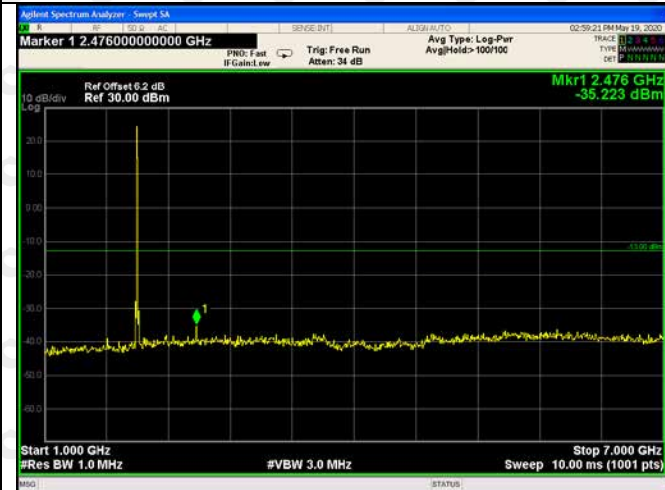
LTE Band 2 10MHz HCH 30MHz~1GHz



LTE Band 2 15MHz LCH 30MHz~1GHz



LTE Band 2 10MHz HCH 1GHz~7GHz



LTE Band 2 15MHz LCH 1GHz~7GHz



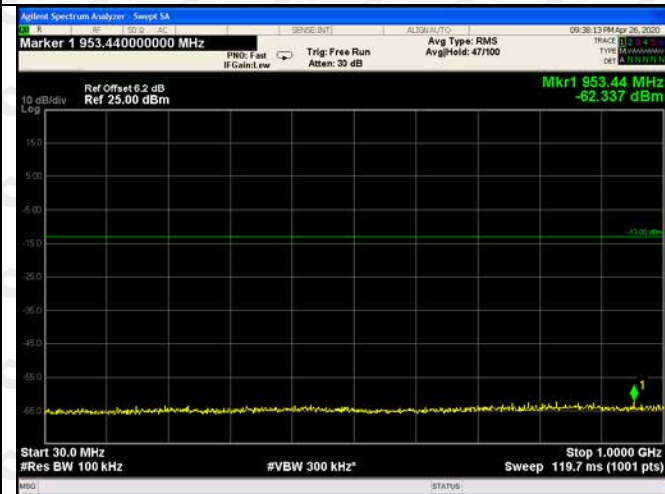
LTE Band 2 10MHz HCH 7GHz~18GHz



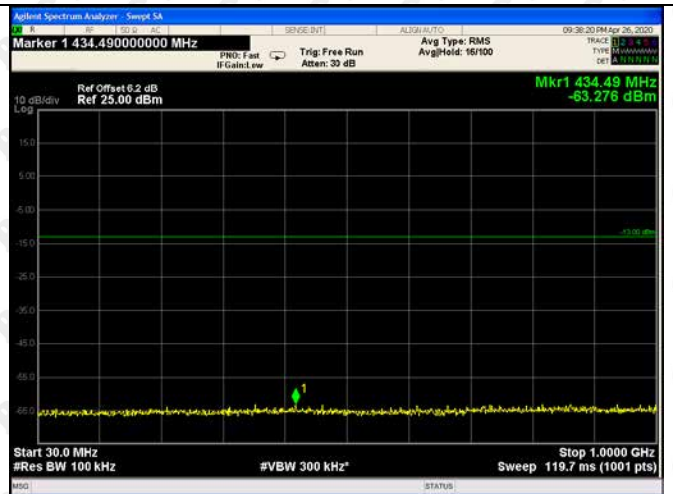
LTE Band 2 15MHz LCH 7GHz~18GHz



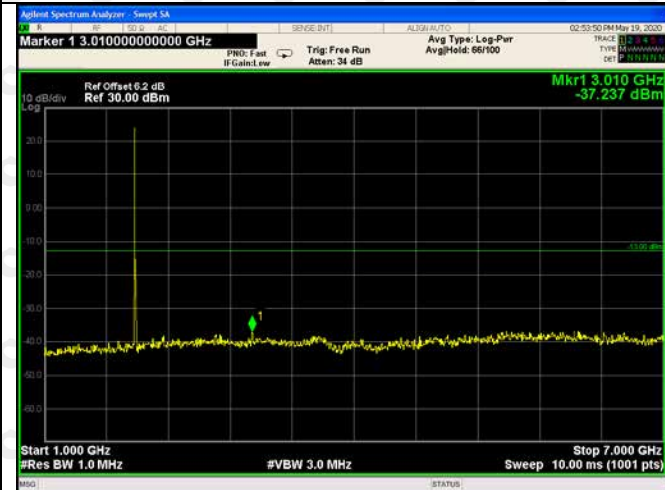
LTE Band 2 15MHz MCH 30MHz~1GHz



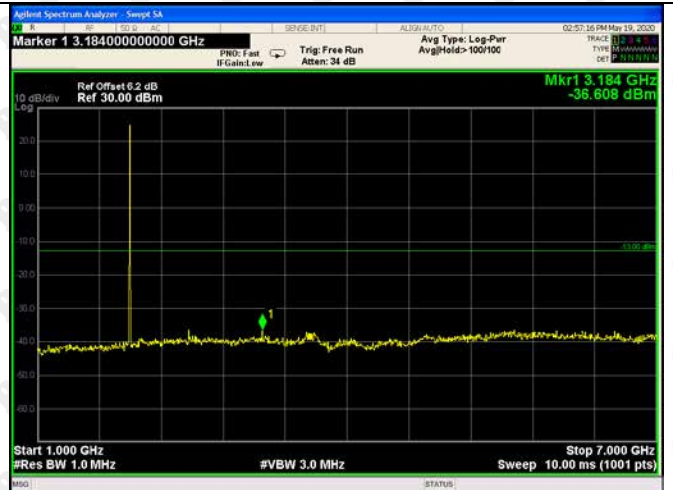
LTE Band 2 15MHz HCH 30MHz~1GHz



LTE Band 2 15MHz MCH 1GHz~7GHz



LTE Band 2 15MHz HCH 1GHz~7GHz



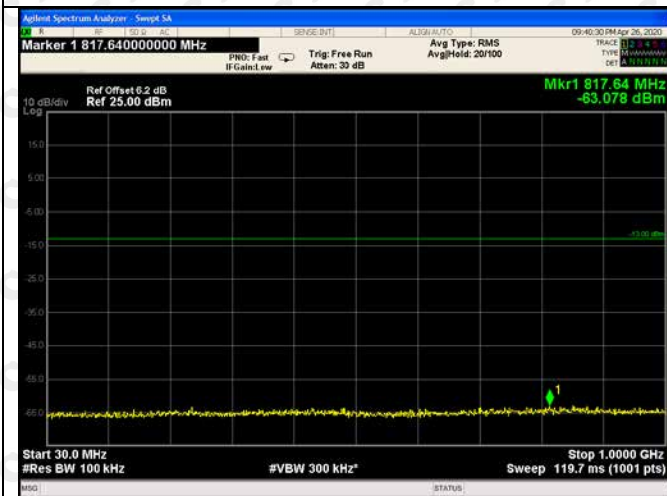
LTE Band 2 15MHz MCH 7GHz~18GHz



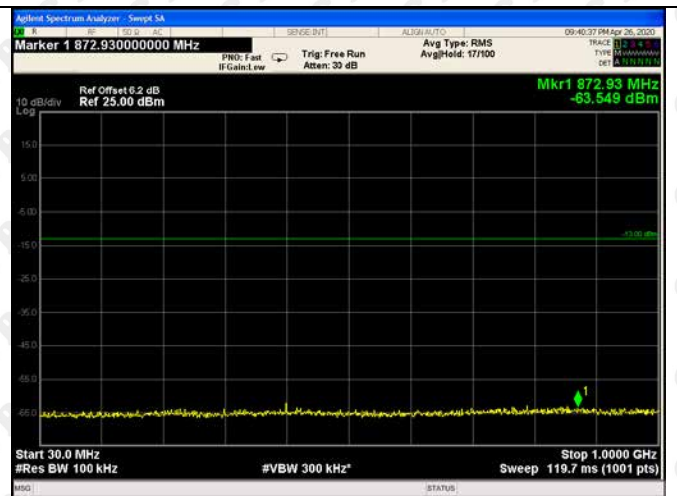
LTE Band 2 15MHz HCH 7GHz~18GHz



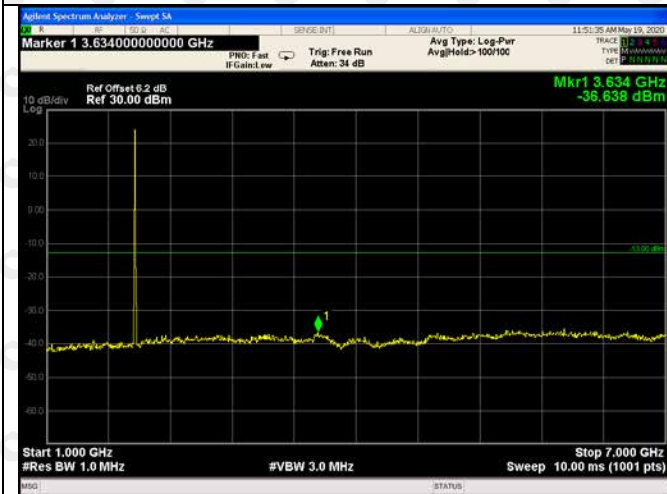
LTE Band 2 20MHz LCH 30MHz~1GHz



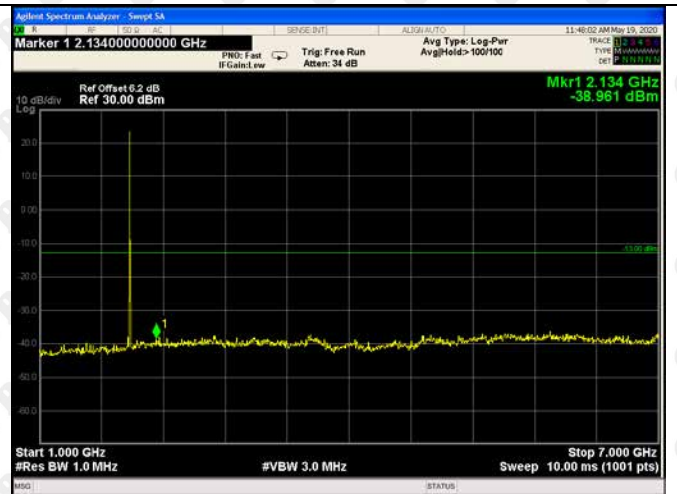
LTE Band 2 20MHz MCH 30MHz~1GHz



LTE Band 2 20MHz LCH 1GHz~7GHz



LTE Band 2 20MHz MCH 1GHz~7GHz



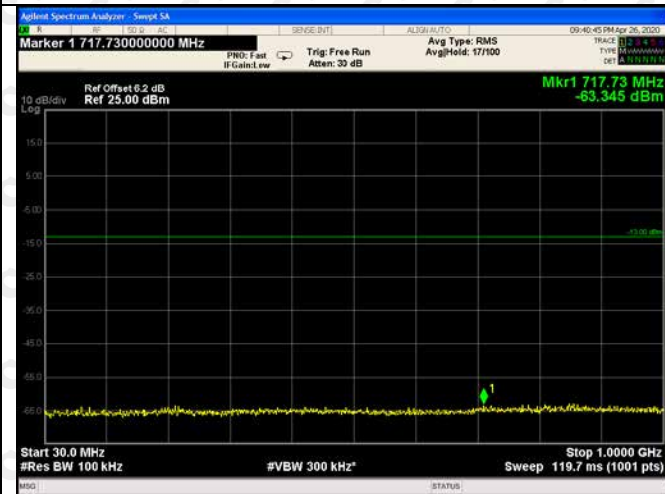
LTE Band 2 20MHz LCH 7GHz~18GHz



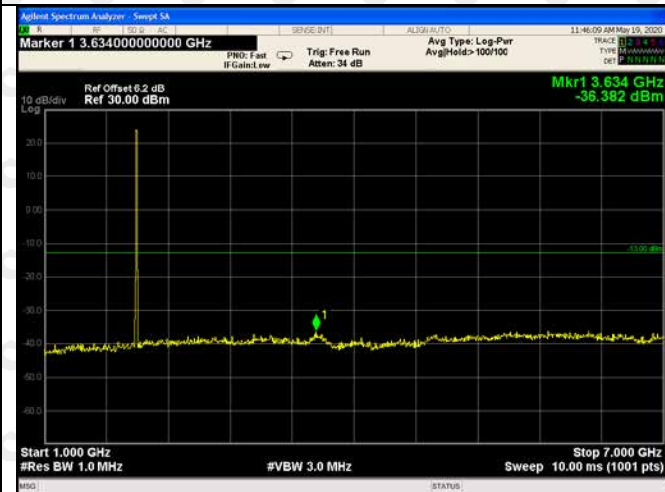
LTE Band 2 20MHz MCH 7GHz~18GHz



LTE Band 2 20MHz HCH 30MHz~1GHz



LTE Band 2 20MHz HCH 1GHz~7GHz



LTE Band 2 20MHz HCH 7GHz~18GHz



12. FIELD STRENGTH OF SPURIOUS RADIATIONR

12.1 Block Diagram Of Test Setup

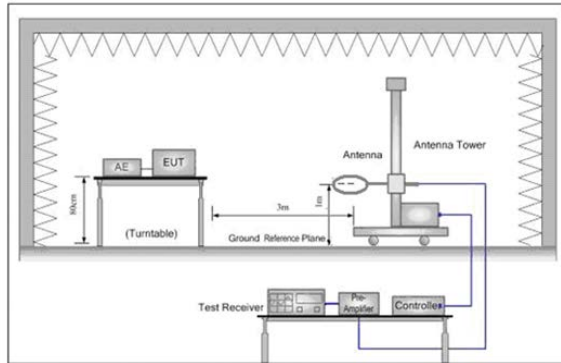


Figure 1. Below 30MHz

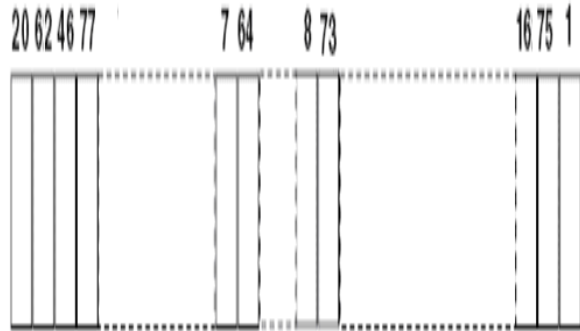


Figure 2. 30MHz to 1GHz

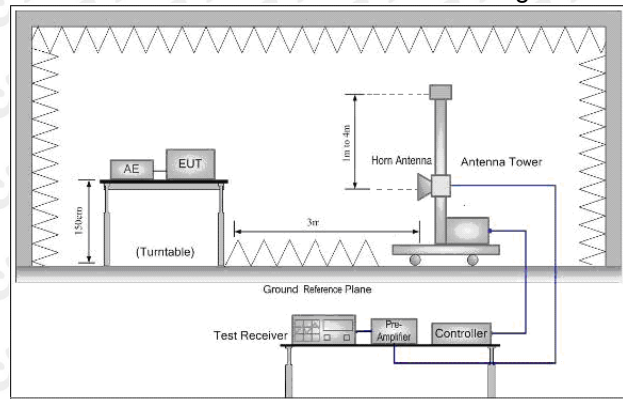


Figure 3. Above 1GHz

12.2 Limit

Attenuated at least $43+10\log(P)$.

Limit	-13 dBm
-------	---------

12.2 Test procedure

3. Scan up to 10th harmonic, find the maximum radiation frequency to measure.
4. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a 1.5m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters (above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.

- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
 - 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
 - 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
 - 7) The output power into the substitution antenna was then measured.
 - 8) Steps 6) and 7) were repeated with both antennas polarized.
 - 9) Calculate power in dBm by the following formula:

$$\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (Db)} + \text{antenna gain (dBd)}$$

$$\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (Db)} + \text{antenna gain (dBi)}$$

$$\text{EIRP} = \text{ERP} + 2.15\text{Db}$$
 where:
 Pg is the generator output power into the substitution antenna.
 - 10) Test the EUT in the lowest channel, the middle channel the Highest channel
 - 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Receiver Setup

Frequency (GHz)	RBW	VBW	Sweep time (s)
0.00009~0.15	1KHz	3KHz	30
0.00015~0.03	10KHz	30KHz	10
0.03~1	100KHz	300KHz	10
1~2	1 MHz	3 MHz	2
2~5	1 MHz	3 MHz	3
5~8	1 MHz	3 MHz	3
8~11	1 MHz	3 MHz	3
11~14	1 MHz	3 MHz	3
14~18	1 MHz	3 MHz	3
18~20	1 MHz	3 MHz	2

12.3 Test Result

**Test Data:
Above 1GHz**

GSM 1900 512 channel (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1217.194	151	318	-59.65	-13.00	-46.65	Pass	H
3316.949	148	264	-53.02	-13.00	-40.02	Pass	H
4823.757	149	86	-52.16	-13.00	-39.16	Pass	H
6588.825	152	79	-45.80	-13.00	-32.80	Pass	H
8047.509	151	134	-47.04	-13.00	-34.04	Pass	H
9375.954	149	74	-47.75	-13.00	-34.75	Pass	H
1104.086	150	93	-59.99	-13.00	-46.99	Pass	V
1573.952	148	142	-58.37	-13.00	-45.37	Pass	V
2875.063	153	293	-52.92	-13.00	-39.92	Pass	V
3797.440	153	76	-51.42	-13.00	-38.42	Pass	V
5598.357	150	146	-47.63	-13.00	-34.63	Pass	V
8098.897	149	317	-48.24	-13.00	-35.24	Pass	V

GSM 1900 661 channel (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1231.002	153	70	-58.59	-13.00	-45.59	Pass	H
3314.281	152	24	-53.31	-13.00	-40.31	Pass	H
4762.346	152	316	-49.85	-13.00	-36.85	Pass	H
6587.627	149	17	-46.50	-13.00	-33.50	Pass	H
8081.906	150	70	-47.24	-13.00	-34.24	Pass	H
9307.127	149	249	-46.62	-13.00	-33.62	Pass	H
1086.097	152	189	-57.79	-13.00	-44.79	Pass	V
1588.265	153	348	-60.35	-13.00	-47.35	Pass	V
2838.076	149	342	-54.31	-13.00	-41.31	Pass	V
3865.683	152	59	-50.07	-13.00	-37.07	Pass	V
5609.967	152	13	-47.82	-13.00	-34.82	Pass	V
8099.781	150	274	-49.27	-13.00	-36.27	Pass	V

GSM 1900 810 channel (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1287.550	153	137	-60.29	-13.00	-47.29	Pass	H
3266.923	149	31	-51.27	-13.00	-38.27	Pass	H
4799.198	148	86	-50.91	-13.00	-37.91	Pass	H
6576.768	149	159	-47.59	-13.00	-34.59	Pass	H
8056.500	148	163	-46.68	-13.00	-33.68	Pass	H
9378.321	149	62	-47.40	-13.00	-34.40	Pass	H
1147.622	152	292	-58.82	-13.00	-45.82	Pass	V
1585.510	148	221	-58.58	-13.00	-45.58	Pass	V
2823.710	152	38	-53.28	-13.00	-40.28	Pass	V
3809.565	149	65	-51.71	-13.00	-38.71	Pass	V
5597.188	151	346	-46.17	-13.00	-33.17	Pass	V
8120.924	149	113	-48.92	-13.00	-35.92	Pass	V

QPSK

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1191.214	152	40	-59.03	-13.00	-46.03	Pass	H
3296.223	148	326	-53.15	-13.00	-40.15	Pass	H
4814.419	151	56	-50.93	-13.00	-37.93	Pass	H
6561.103	153	172	-47.40	-13.00	-34.40	Pass	H
8043.466	152	136	-48.22	-13.00	-35.22	Pass	H
9350.772	149	348	-47.21	-13.00	-34.21	Pass	H
1075.966	151	109	-59.77	-13.00	-46.77	Pass	V
1619.999	148	132	-60.63	-13.00	-47.63	Pass	V
2805.741	150	175	-54.52	-13.00	-41.52	Pass	V
3815.567	150	305	-51.64	-13.00	-38.64	Pass	V
5574.934	151	80	-46.26	-13.00	-33.26	Pass	V
8103.905	152	187	-49.48	-13.00	-36.48	Pass	V

Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1254.609	149	144	-60.53	-13.00	-47.53	Pass	H
3259.894	149	292	-52.88	-13.00	-39.88	Pass	H
4788.394	152	17	-50.37	-13.00	-37.37	Pass	H
6588.652	149	305	-47.55	-13.00	-34.55	Pass	H
8027.084	151	5	-47.19	-13.00	-34.19	Pass	H
9323.830	151	283	-48.92	-13.00	-35.92	Pass	H
1089.102	153	164	-59.15	-13.00	-46.15	Pass	V
1628.284	153	271	-58.62	-13.00	-45.62	Pass	V
2855.801	150	254	-53.54	-13.00	-40.54	Pass	V
3830.764	149	176	-52.09	-13.00	-39.09	Pass	V
5608.255	151	326	-46.44	-13.00	-33.44	Pass	V
8064.077	152	311	-47.59	-13.00	-34.59	Pass	V

Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1251.171	153	275	-60.62	-13.00	-47.62	Pass	H
3281.776	149	74	-51.40	-13.00	-38.40	Pass	H
4781.835	149	125	-49.74	-13.00	-36.74	Pass	H
6565.684	149	221	-48.15	-13.00	-35.15	Pass	H
8074.036	151	114	-46.45	-13.00	-33.45	Pass	H
9392.433	149	128	-46.65	-13.00	-33.65	Pass	H
1068.315	150	46	-57.99	-13.00	-44.99	Pass	V
1622.839	153	68	-59.32	-13.00	-46.32	Pass	V
2814.085	152	326	-53.78	-13.00	-40.78	Pass	V
3817.945	151	246	-51.48	-13.00	-38.48	Pass	V
5650.415	148	268	-48.11	-13.00	-35.11	Pass	V
8111.158	149	127	-47.84	-13.00	-34.84	Pass	V

16QAM

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1288.643	149	23	-60.31	-13.00	-47.31	Pass	H
3265.833	152	314	-52.15	-13.00	-39.15	Pass	H
4792.369	150	212	-49.36	-13.00	-36.36	Pass	H
6599.292	150	79	-47.69	-13.00	-34.69	Pass	H
8099.047	149	123	-46.65	-13.00	-33.65	Pass	H
9315.470	151	328	-48.16	-13.00	-35.16	Pass	H
1150.826	152	142	-58.08	-13.00	-45.08	Pass	V
1573.384	149	113	-59.77	-13.00	-46.77	Pass	V
2865.080	148	196	-52.13	-13.00	-39.13	Pass	V
3825.174	151	124	-51.59	-13.00	-38.59	Pass	V
5595.808	148	132	-48.18	-13.00	-35.18	Pass	V
8049.467	152	266	-47.61	-13.00	-34.61	Pass	V

Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1261.642	152	137	-60.35	-13.00	-47.35	Pass	H
1651.144	153	251	-52.60	-13.00	-39.60	Pass	H
3815.362	150	79	-50.18	-13.00	-37.18	Pass	H
5387.771	150	53	-46.52	-13.00	-33.52	Pass	H
6638.764	149	14	-47.54	-13.00	-34.54	Pass	H
8686.734	149	217	-47.66	-13.00	-34.66	Pass	H
1170.409	152	230	-58.92	-13.00	-45.92	Pass	V
1406.845	151	21	-58.86	-13.00	-45.86	Pass	V
3787.134	152	39	-53.24	-13.00	-40.24	Pass	V
5710.886	151	70	-52.41	-13.00	-39.41	Pass	V
8102.063	151	317	-46.74	-13.00	-33.74	Pass	V
10049.166	153	132	-47.65	-13.00	-34.65	Pass	V

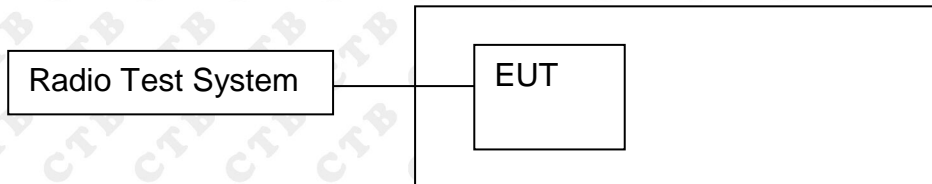
Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (Db)	Result	Antenna Polaxis.
1225.978	153	169	-58.63	-13.00	-45.63	Pass	H
1654.858	150	121	-53.25	-13.00	-40.25	Pass	H
3815.427	151	165	-49.33	-13.00	-36.33	Pass	H
5814.729	148	295	-47.54	-13.00	-34.54	Pass	H
6512.176	152	209	-48.20	-13.00	-35.20	Pass	H
8020.699	148	206	-48.87	-13.00	-35.87	Pass	H
1222.315	148	44	-59.38	-13.00	-46.38	Pass	V
1442.328	150	256	-59.18	-13.00	-46.18	Pass	V
3452.454	150	30	-51.71	-13.00	-38.71	Pass	V
3876.237	152	209	-51.02	-13.00	-38.02	Pass	V
5787.987	153	175	-47.00	-13.00	-34.00	Pass	V
6490.723	148	200	-48.16	-13.00	-35.16	Pass	V

Note:

- 1) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 Db below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) Tested with all kind of bandwidth, RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

13. FREQUENCY STABILITY

13.2 Block Diagram Of Test Setup



13.2 Limit

N/A

13.3 Test procedure

The transmitter output was connected to a calibrated coaxial cable and a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The EUT was placed in the temperature chamber, the DC leads and RF output cable exited the chamber through an opening made for that purpose. After operating the equipment in standby conditions for 15 minutes before proceeding. The temperature was varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C . The frequency stability was read from the base station at 25°C the input voltage was varied $\pm 15\%$, the frequency stability and input voltage was recorded.

13.4 Test Result

GSM 1900

GSM 1900					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
GPRS	LCH	VL	TN	-0.18	-0.000097
		VN	TN	-1.59	-0.000861
		VH	TN	-2.54	-0.001371
	MCH	VL	TN	-4.32	-0.002298
		VN	TN	-2.33	-0.001240
		VH	TN	-4.25	-0.002261
	HCH	VL	TN	-0.34	-0.000177
		VN	TN	-0.85	-0.000445
		VH	TN	0.87	0.000456
EGPRS	LCH	VL	TN	-2.31	-0.001251
		VN	TN	-1.40	-0.000756
		VH	TN	-1.52	-0.000820
	MCH	VL	TN	-3.07	-0.001635
		VN	TN	-3.73	-0.001983
		VH	TN	-3.11	-0.001654
	HCH	VL	TN	-1.92	-0.001005
		VN	TN	0.23	0.000121
		VH	TN	-0.22	-0.000114
Temperature					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
GPRS	LCH	VN	-30	0.20	0.000109
		VN	-20	-1.45	-0.000786
		VN	-10	-2.27	-0.001228
		VN	0	-4.01	-0.002166
		VN	10	-1.53	-0.000826
		VN	20	-3.56	-0.001922
		VN	30	-0.50	-0.000269
		VN	40	-0.44	-0.000239
		VN	50	1.69	0.000911
	MCH	VN	-30	-1.37	-0.000726
		VN	-20	-1.65	-0.000876
		VN	-10	-1.33	-0.000708
		VN	0	-2.32	-0.001235
		VN	10	-2.92	-0.001554
		VN	20	-2.80	-0.001491
		VN	30	-0.70	-0.000373
		VN	40	1.62	0.000860
		VN	50	1.40	0.000746
	HCH	VN	-30	0.27	0.000139
		VN	-20	-1.02	-0.000537
		VN	-10	-2.57	-0.001346
		VN	0	-1.08	-0.000567

		VN	10	-0.73	-0.000382
		VN	20	-0.02	-0.000010
		VN	30	-1.54	-0.000805
		VN	40	0.16	0.000086
		VN	50	1.05	0.000547
EGPRS	LCH	VN	-30	-0.18	-0.000097
		VN	-20	-1.72	-0.000929
		VN	-10	-2.05	-0.001110
		VN	0	-3.37	-0.001819
		VN	10	-1.27	-0.000687
		VN	20	-3.67	-0.001986
		VN	30	-0.87	-0.000471
		VN	40	0.18	0.000099
		VN	50	1.80	0.000973
	MCH	VN	-30	-1.65	-0.000875
		VN	-20	-1.56	-0.000830
		VN	-10	-0.71	-0.000376
		VN	0	-2.06	-0.001096
		VN	10	-2.66	-0.001417
		VN	20	-2.82	-0.001500
		VN	30	-1.12	-0.000594
		VN	40	1.14	0.000605
		VN	50	0.46	0.000242
	HCH	VN	-30	0.47	0.000246
		VN	-20	-1.07	-0.000560
		VN	-10	-2.20	-0.001149
		VN	0	-1.40	-0.000734
		VN	10	-0.13	-0.000068
		VN	20	-0.49	-0.000259
		VN	30	-0.80	-0.000419
		VN	40	0.60	0.000316
		VN	50	0.43	0.000225

Band2:

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VL	TN	-0.83	-0.000447
		VN	TN	-1.87	-0.001008
		VH	TN	-2.61	-0.001413
	MCH	VL	TN	-3.99	-0.002121
		VN	TN	-2.08	-0.001107
		VH	TN	-4.18	-0.002223
	HCH	VL	TN	-0.35	-0.000183
		VN	TN	-0.60	-0.000312
		VH	TN	0.66	0.000345
16QAM	LCH	VL	TN	-2.26	-0.001220
		VN	TN	-1.40	-0.000759
		VH	TN	-1.43	-0.000772
	MCH	VL	TN	-2.11	-0.001124
		VN	TN	-3.63	-0.001930
		VH	TN	-3.04	-0.001617
	HCH	VL	TN	-1.80	-0.000940
		VN	TN	0.73	0.000381
		VH	TN	-0.28	-0.000145
Temperature					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VN	-30	0.05	0.000028
		VN	-20	-1.01	-0.000546
		VN	-10	-2.46	-0.001330
		VN	0	-3.99	-0.002157
		VN	10	-1.30	-0.000700
		VN	20	-3.48	-0.001881
		VN	30	-0.76	-0.000410
		VN	40	-0.12	-0.000067
		VN	50	1.95	0.001052
	MCH	VN	-30	-0.89	-0.000472
		VN	-20	-2.17	-0.001154
		VN	-10	-1.29	-0.000687
		VN	0	-2.76	-0.001471
		VN	10	-3.06	-0.001627
		VN	20	-2.61	-0.001389
		VN	30	-0.75	-0.000399
		VN	40	0.88	0.000469
		VN	50	0.63	0.000333
	HCH	VN	-30	0.14	0.000073
		VN	-20	-1.59	-0.000834
		VN	-10	-2.67	-0.001397
		VN	0	-1.66	-0.000868
		VN	10	-0.77	-0.000402
		VN	20	-0.60	-0.000312

		VN	30	-0.95	-0.000499
		VN	40	-0.01	-0.000004
		VN	50	0.98	0.000511
16QAM	LCH	VN	-30	0.41	0.000219
		VN	-20	-0.94	-0.000509
		VN	-10	-2.72	-0.001468
		VN	0	-4.20	-0.002271
		VN	10	-1.18	-0.000637
		VN	20	-4.18	-0.002258
		VN	30	-0.81	-0.000439
		VN	40	-0.56	-0.000303
		VN	50	1.47	0.000793
	MCH	VN	-30	-1.20	-0.000639
		VN	-20	-2.03	-0.001079
		VN	-10	-1.11	-0.000592
		VN	0	-2.37	-0.001261
		VN	10	-2.91	-0.001550
		VN	20	-2.96	-0.001576
		VN	30	-1.29	-0.000689
		VN	40	1.06	0.000562
		VN	50	1.04	0.000555
	HCH	VN	-30	-0.04	-0.000023
		VN	-20	-1.86	-0.000975
		VN	-10	-2.21	-0.001156
		VN	0	-1.71	-0.000897
		VN	10	-0.75	-0.000391
		VN	20	-0.34	-0.000180
VN		30	-1.03	-0.000538	
VN		40	0.53	0.000276	
VN		50	0.25	0.000129	

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VL	TN	-0.14	-0.000078
		VN	TN	-1.51	-0.000815
		VH	TN	-2.54	-0.001370
	MCH	VL	TN	-4.58	-0.002435
		VN	TN	-1.90	-0.001011
		VH	TN	-4.23	-0.002250
	HCH	VL	TN	-0.36	-0.000186
		VN	TN	-1.23	-0.000643
		VH	TN	0.55	0.000290
16QAM	LCH	VL	TN	-2.48	-0.001338
		VN	TN	-2.22	-0.001198
		VH	TN	-1.92	-0.001037
	MCH	VL	TN	-2.24	-0.001193
		VN	TN	-3.87	-0.002060

		VH	TN	-2.98	-0.001585	
		VL	TN	-1.66	-0.000869	
		VN	TN	0.77	0.000401	
		VH	TN	-0.37	-0.000191	
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	
QPSK	LCH	VN	-30	-0.17	-0.000091	
		VN	-20	-1.73	-0.000936	
		VN	-10	-2.02	-0.001089	
		VN	0	-3.38	-0.001826	
		VN	10	-1.30	-0.000702	
		VN	20	-3.82	-0.002066	
		VN	30	-0.22	-0.000119	
		VN	40	-0.39	-0.000209	
		VN	50	1.59	0.000859	
	MCH	VN	-30	-0.88	-0.000470	
		VN	-20	-1.80	-0.000957	
		VN	-10	-0.71	-0.000376	
		VN	0	-2.08	-0.001106	
		VN	10	-2.68	-0.001428	
		VN	20	-2.16	-0.001147	
		VN	30	-1.08	-0.000573	
		VN	40	1.07	0.000569	
		VN	50	1.17	0.000623	
	HCH	VN	-30	0.55	0.000290	
		VN	-20	-1.92	-0.001008	
		VN	-10	-1.97	-0.001031	
		VN	0	-1.32	-0.000690	
		VN	10	0.04	0.000022	
		VN	20	-0.06	-0.000031	
		VN	30	-1.02	-0.000534	
		VN	40	0.74	0.000385	
		VN	50	0.23	0.000119	
	QPSK	LCH	VN	-30	0.07	0.000038
			VN	-20	-0.94	-0.000508
			VN	-10	-2.44	-0.001319
			VN	0	-3.50	-0.001891
			VN	10	-1.26	-0.000681
VN			20	-3.53	-0.001904	
VN			30	-1.16	-0.000628	
VN			40	0.25	0.000135	
VN			50	1.04	0.000561	
MCH		VN	-30	-0.90	-0.000478	
		VN	-20	-2.16	-0.001147	
		VN	-10	-0.95	-0.000506	
		VN	0	-2.51	-0.001335	
		VN	10	-2.76	-0.001470	
		VN	20	-2.84	-0.001512	
		VN	30	-1.04	-0.000551	
VN	40	0.93	0.000493			

	HCH	VN	50	0.64	0.000343
		VN	-30	0.27	0.000143
		VN	-20	-0.96	-0.000502
		VN	-10	-2.63	-0.001380
		VN	0	-1.03	-0.000540
		VN	10	-0.39	-0.000207
		VN	20	-0.66	-0.000346
		VN	30	-0.87	-0.000454
		VN	40	0.30	0.000158
		VN	50	1.03	0.000542

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VL	TN	-0.07	-0.000039
		VN	TN	-1.42	-0.000768
		VH	TN	-2.53	-0.001365
	MCH	VL	TN	-3.86	-0.002052
		VN	TN	-1.99	-0.001060
		VH	TN	-4.47	-0.002377
	HCH	VL	TN	-0.44	-0.000232
		VN	TN	-1.11	-0.000584
		VH	TN	1.18	0.000617
16QAM	LCH	VL	TN	-1.79	-0.000965
		VN	TN	-2.08	-0.001124
		VH	TN	-1.47	-0.000796
	MCH	VL	TN	-3.03	-0.001614
		VN	TN	-3.18	-0.001690
		VH	TN	-2.24	-0.001191
	HCH	VL	TN	-1.32	-0.000689
		VN	TN	0.55	0.000286
		VH	TN	0.07	0.000037
Temperature					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VN	-30	0.42	0.000226
		VN	-20	-1.33	-0.000716
		VN	-10	-2.12	-0.001143
		VN	0	-3.93	-0.002122
		VN	10	-1.98	-0.001071
		VN	20	-3.40	-0.001838
		VN	30	-0.22	-0.000118
		VN	40	-0.66	-0.000357
	MCH	VN	50	1.52	0.000820
		VN	-30	-1.23	-0.000652
		VN	-20	-1.65	-0.000876
		VN	-10	-1.12	-0.000594
		VN	0	-2.49	-0.001325
		VN	10	-0.39	-0.000207

		VN	10	-2.44	-0.001300
		VN	20	-2.93	-0.001558
		VN	30	-1.24	-0.000659
		VN	40	1.03	0.000545
		VN	50	1.20	0.000640
	HCH	VN	-30	0.05	0.000028
		VN	-20	-1.31	-0.000685
		VN	-10	-2.29	-0.001202
		VN	0	-1.20	-0.000630
		VN	10	0.02	0.000012
		VN	20	-0.24	-0.000126
		VN	30	-0.97	-0.000506
		VN	40	0.57	0.000296
		VN	50	0.57	0.000296
16QAM	LCH	VN	-30	-0.09	-0.000049
		VN	-20	-1.30	-0.000702
		VN	-10	-1.96	-0.001056
		VN	0	-3.81	-0.002058
		VN	10	-2.09	-0.001126
		VN	20	-3.63	-0.001960
		VN	30	-1.13	-0.000612
		VN	40	0.15	0.000082
		VN	50	1.31	0.000710
	MCH	VN	-30	-1.12	-0.000596
		VN	-20	-1.52	-0.000808
		VN	-10	-1.48	-0.000789
		VN	0	-2.21	-0.001175
		VN	10	-3.00	-0.001594
		VN	20	-2.92	-0.001551
		VN	30	-1.00	-0.000531
		VN	40	0.91	0.000482
		VN	50	0.49	0.000259
	HCH	VN	-30	0.37	0.000194
		VN	-20	-1.22	-0.000641
		VN	-10	-2.11	-0.001104
		VN	0	-1.42	-0.000744
		VN	10	-0.71	-0.000372
		VN	20	-0.26	-0.000136
		VN	30	-1.64	-0.000860
		VN	40	0.37	0.000195
		VN	50	0.61	0.000318

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VL	TN	-0.32	-0.000170
		VN	TN	-1.96	-0.001055
		VH	TN	-2.33	-0.001259
	MCH	VL	TN	-4.34	-0.002306
		VN	TN	-2.66	-0.001414
		VH	TN	-5.09	-0.002706
	HCH	VL	TN	-0.59	-0.000308
		VN	TN	-0.98	-0.000513
		VH	TN	0.38	0.000201
16QAM	LCH	VL	TN	-2.13	-0.001149
		VN	TN	-1.38	-0.000743
		VH	TN	-1.66	-0.000896
	MCH	VL	TN	-2.38	-0.001266
		VN	TN	-3.36	-0.001788
		VH	TN	-2.81	-0.001493
	HCH	VL	TN	-1.16	-0.000608
		VN	TN	-0.07	-0.000039
		VH	TN	-0.37	-0.000193
Temperature					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
16QAM	LCH	VN	-30	0.43	0.000230
		VN	-20	-0.97	-0.000521
		VN	-10	-2.38	-0.001284
		VN	0	-4.18	-0.002254
		VN	10	-2.00	-0.001081
		VN	20	-4.31	-0.002325
		VN	30	-0.34	-0.000185
		VN	40	-0.12	-0.000063
		VN	50	1.79	0.000967
	MCH	VN	-30	-0.93	-0.000495
		VN	-20	-1.90	-0.001011
		VN	-10	-0.68	-0.000362
		VN	0	-2.72	-0.001449
		VN	10	-2.93	-0.001559
		VN	20	-2.74	-0.001458
		VN	30	-1.11	-0.000589
		VN	40	1.47	0.000783
		VN	50	0.70	0.000370
	HCH	VN	-30	0.30	0.000158
		VN	-20	-1.20	-0.000630
		VN	-10	-1.93	-0.001012
		VN	0	-1.44	-0.000758
		VN	10	-0.85	-0.000444
		VN	20	-0.32	-0.000165

		VN	30	-1.69	-0.000889
		VN	40	0.17	0.000088
		VN	50	0.57	0.000298
QPSK	LCH	VN	-30	0.06	0.000033
		VN	-20	-1.16	-0.000627
		VN	-10	-2.33	-0.001254
		VN	0	-3.48	-0.001878
		VN	10	-2.14	-0.001153
		VN	20	-3.43	-0.001849
		VN	30	-1.17	-0.000630
		VN	40	-0.40	-0.000214
		VN	50	1.39	0.000751
	MCH	VN	-30	-1.42	-0.000754
		VN	-20	-1.70	-0.000906
		VN	-10	-0.64	-0.000340
		VN	0	-2.41	-0.001284
		VN	10	-2.41	-0.001281
		VN	20	-2.08	-0.001106
		VN	30	-0.86	-0.000458
		VN	40	1.41	0.000751
		VN	50	0.92	0.000487
	HCH	VN	-30	0.06	0.000033
		VN	-20	-1.60	-0.000837
		VN	-10	-1.96	-0.001026
		VN	0	-1.47	-0.000772
		VN	10	-0.40	-0.000208
		VN	20	-0.07	-0.000035
VN		30	-1.49	-0.000783	
VN		40	0.32	0.000167	
VN		50	0.34	0.000176	

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VL	TN	-0.78	-0.000423
		VN	TN	-1.56	-0.000838
		VH	TN	-2.20	-0.001183
	MCH	VL	TN	-4.39	-0.002337
		VN	TN	-2.10	-0.001116
		VH	TN	-4.75	-0.002526
	HCH	VL	TN	-0.77	-0.000406
		VN	TN	-1.34	-0.000707
		VH	TN	1.12	0.000590
16QAM	LCH	VL	TN	-1.98	-0.001063
		VN	TN	-1.52	-0.000817
		VH	TN	-2.10	-0.001131
	MCH	VL	TN	-2.58	-0.001373
		VN	TN	-2.97	-0.001577

		VH	TN	-2.33	-0.001242	
		VL	TN	-1.34	-0.000704	
		VN	TN	0.42	0.000222	
		VH	TN	0.42	0.000221	
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	
QPSK	LCH	VN	-30	0.47	0.000252	
		VN	-20	-1.55	-0.000834	
		VN	-10	-2.48	-0.001338	
		VN	0	-3.70	-0.001993	
		VN	10	-1.84	-0.000992	
		VN	20	-3.40	-0.001833	
		VN	30	-0.72	-0.000389	
		VN	40	-0.36	-0.000196	
	MCH	VN	50	1.66	0.000891	
		VN	-30	-1.65	-0.000878	
		VN	-20	-1.39	-0.000740	
		VN	-10	-1.51	-0.000804	
		VN	0	-2.29	-0.001217	
		VN	10	-2.50	-0.001330	
		VN	20	-2.39	-0.001271	
		VN	30	-1.41	-0.000750	
	HCH	VN	40	1.56	0.000829	
		VN	50	0.55	0.000290	
		VN	-30	0.55	0.000290	
		VN	-20	-1.78	-0.000938	
		VN	-10	-2.26	-0.001186	
		VN	0	-1.53	-0.000805	
		VN	10	-0.89	-0.000468	
		VN	20	-0.27	-0.000143	
	16QAM	LCH	VN	30	-1.21	-0.000637
			VN	40	0.49	0.000257
			VN	50	0.17	0.000090
			VN	-30	0.44	0.000237
VN			-20	-1.11	-0.000597	
VN			-10	-2.24	-0.001204	
VN			0	-3.54	-0.001906	
VN			10	-1.69	-0.000909	
MCH		VN	20	-3.55	-0.001912	
		VN	30	-1.04	-0.000560	
		VN	40	0.28	0.000152	
		VN	50	1.45	0.000781	
		VN	-30	-0.95	-0.000507	
		VN	-20	-1.44	-0.000764	
		VN	-10	-1.58	-0.000838	
		VN	0	-2.58	-0.001370	
		VN	10	-2.41	-0.001282	
		VN	20	-3.02	-0.001609	
		VN	30	-1.05	-0.000561	
		VN	40	1.54	0.000821	

	HCH	VN	50	0.85	0.000451
		VN	-30	-0.04	-0.000022
		VN	-20	-1.87	-0.000985
		VN	-10	-2.52	-0.001323
		VN	0	-1.32	-0.000696
		VN	10	-0.15	-0.000081
		VN	20	-0.40	-0.000208
		VN	30	-1.46	-0.000769
		VN	40	0.60	0.000315
		VN	50	0.64	0.000337

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz					
Voltage					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VL	TN	-0.52	-0.000281
		VN	TN	-1.63	-0.000877
		VH	TN	-2.04	-0.001095
	MCH	VL	TN	-4.67	-0.002484
		VN	TN	-2.53	-0.001344
		VH	TN	-4.47	-0.002378
	HCH	VL	TN	-0.76	-0.000400
		VN	TN	-1.01	-0.000530
		VH	TN	0.74	0.000392
16QAM	LCH	VL	TN	-1.61	-0.000867
		VN	TN	-2.12	-0.001140
		VH	TN	-2.35	-0.001263
	MCH	VL	TN	-2.83	-0.001504
		VN	TN	-3.44	-0.001831
		VH	TN	-2.47	-0.001315
	HCH	VL	TN	-1.16	-0.000609
		VN	TN	0.05	0.000026
		VH	TN	-0.32	-0.000168
Temperature					
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
QPSK	LCH	VN	-30	0.17	0.000089
		VN	-20	-1.64	-0.000881
		VN	-10	-1.90	-0.001024
		VN	0	-3.64	-0.001958
		VN	10	-1.35	-0.000726
		VN	20	-3.83	-0.002059
		VN	30	-0.68	-0.000364
		VN	40	-0.33	-0.000177
	MCH	VN	50	1.53	0.000822
		VN	-30	-1.59	-0.000844
		VN	-20	-1.64	-0.000870
		VN	-10	-1.20	-0.000638
		VN	0	-2.52	-0.001339
		VN	10	-1.35	-0.000726

		VN	10	-2.84	-0.001512
		VN	20	-2.97	-0.001579
		VN	30	-0.70	-0.000370
		VN	40	1.00	0.000533
		VN	50	0.80	0.000428
	HCH	VN	-30	-0.04	-0.000019
		VN	-20	-1.41	-0.000740
		VN	-10	-1.91	-0.001003
		VN	0	-1.15	-0.000608
		VN	10	-0.44	-0.000232
		VN	20	0.00	-0.000002
		VN	30	-1.43	-0.000751
		VN	40	0.50	0.000262
		VN	50	0.37	0.000196
16QAM	LCH	VN	-30	0.35	0.000190
		VN	-20	-1.18	-0.000633
		VN	-10	-2.01	-0.001083
		VN	0	-3.33	-0.001790
		VN	10	-1.17	-0.000626
		VN	20	-3.83	-0.002057
		VN	30	-0.94	-0.000504
		VN	40	0.20	0.000105
		VN	50	1.80	0.000969
	MCH	VN	-30	-1.17	-0.000621
		VN	-20	-2.13	-0.001134
		VN	-10	-0.92	-0.000490
		VN	0	-2.06	-0.001094
		VN	10	-2.95	-0.001571
		VN	20	-2.08	-0.001105
		VN	30	-0.67	-0.000355
		VN	40	1.44	0.000768
		VN	50	1.00	0.000531
	HCH	VN	-30	0.37	0.000196
		VN	-20	-1.78	-0.000938
		VN	-10	-2.15	-0.001133
		VN	0	-1.52	-0.000801
		VN	10	0.06	0.000031
		VN	20	-0.33	-0.000172
		VN	30	-1.69	-0.000888
		VN	40	0.91	0.000481
		VN	50	0.67	0.000355

14. EUT PHOTOGRAPHS

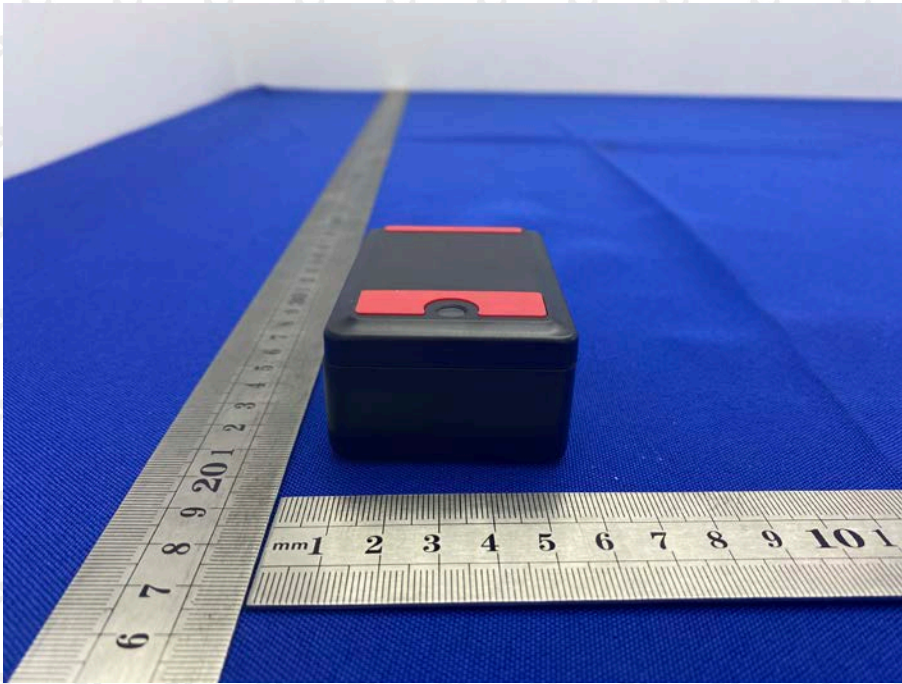
NT06E
EUT Photo 1



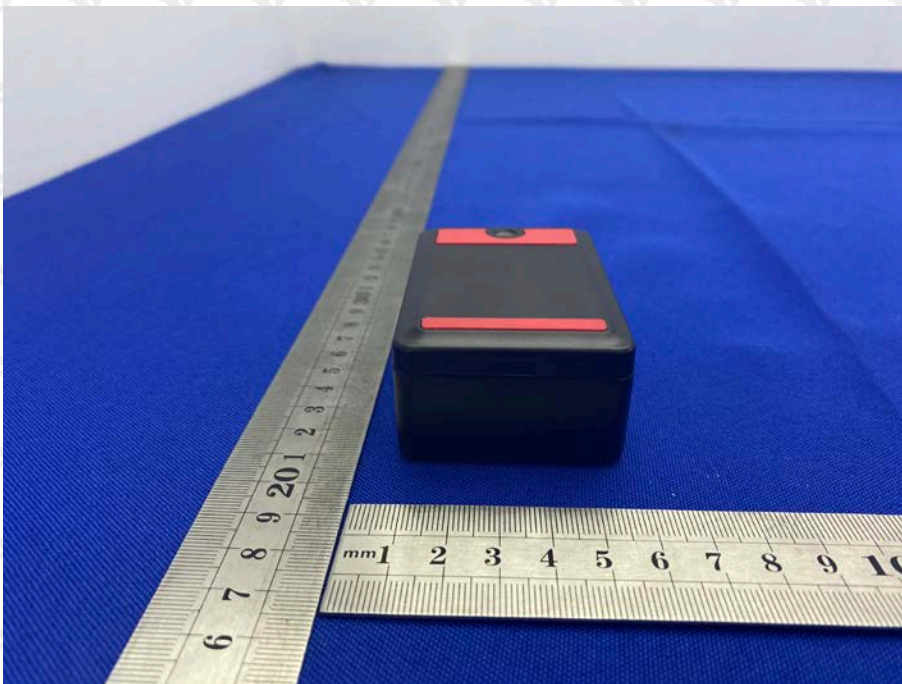
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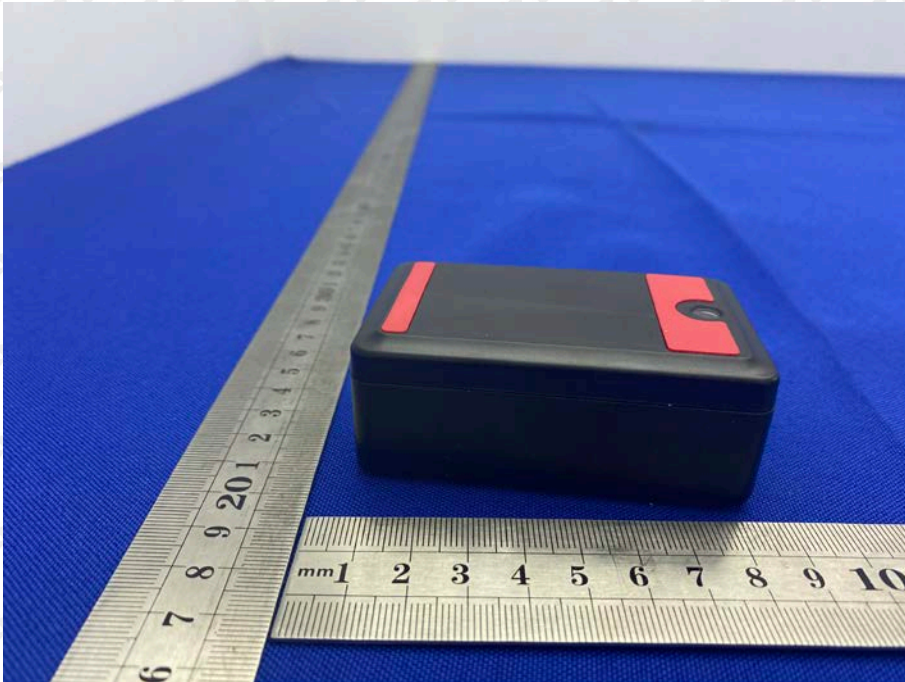
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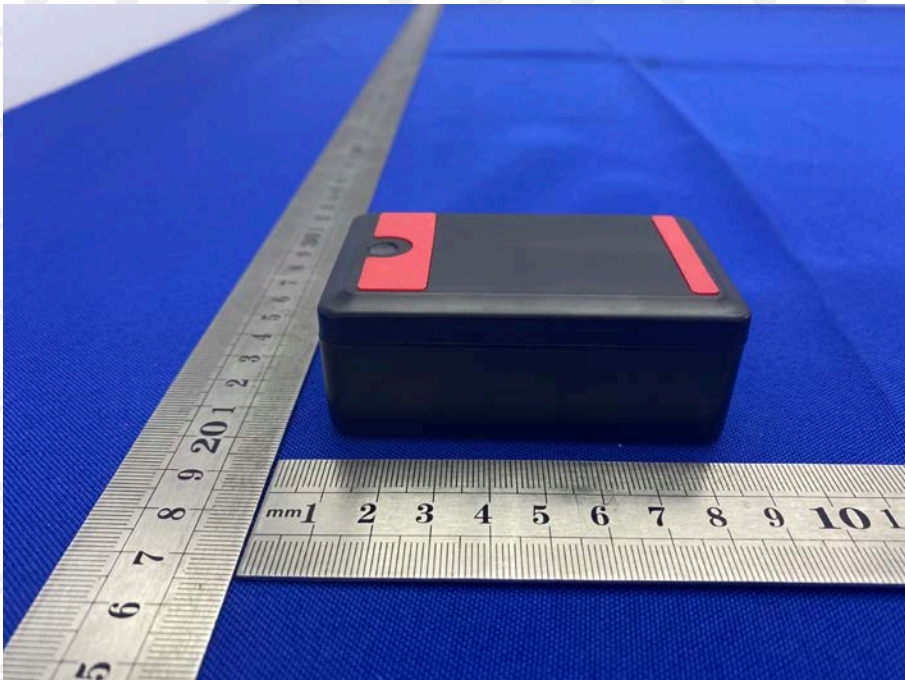
EUT Photo 4



EUT Photo 5



EUT Photo 6



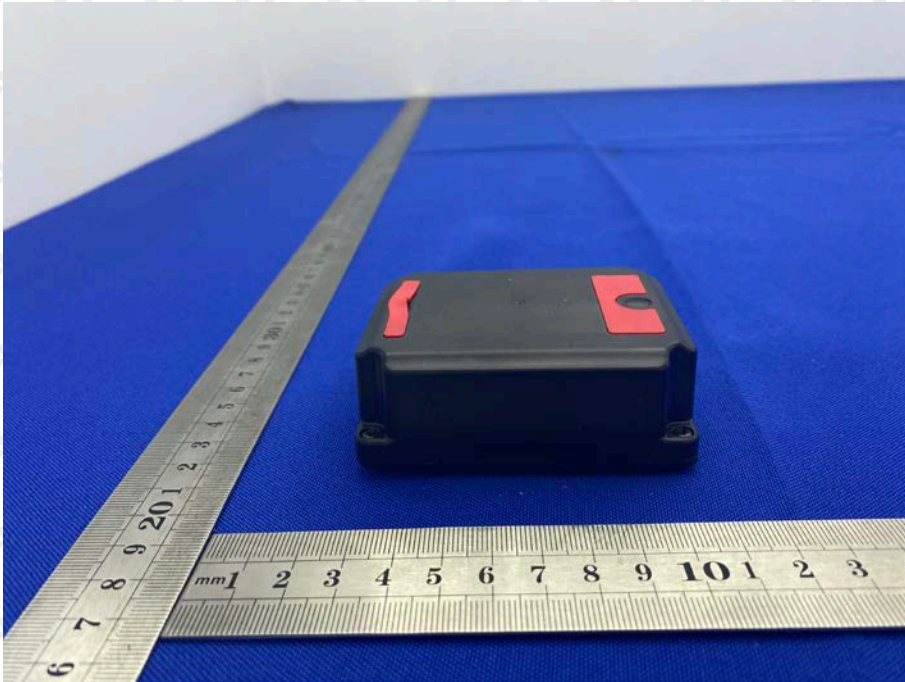
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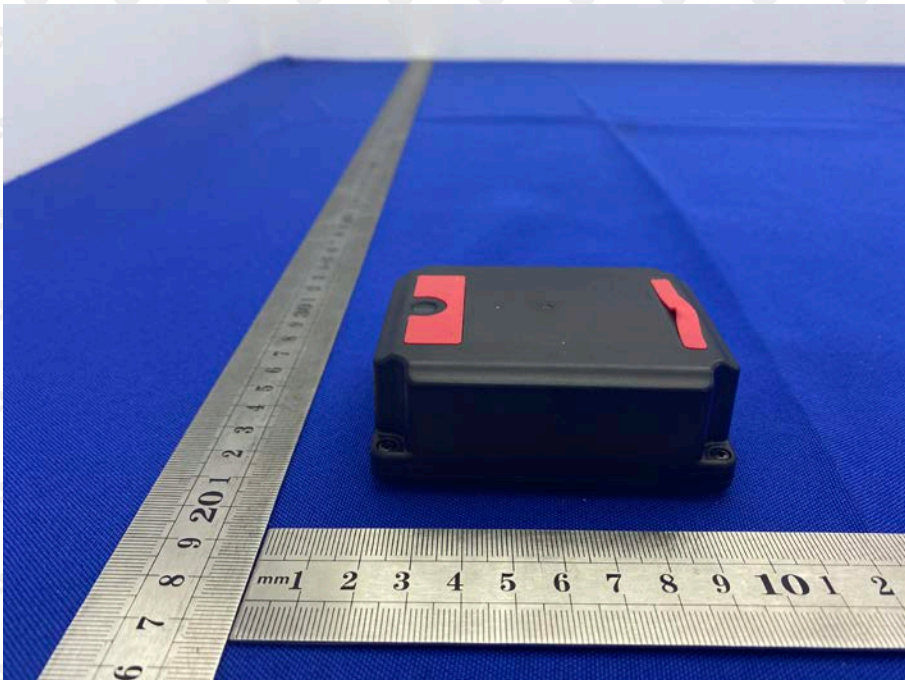
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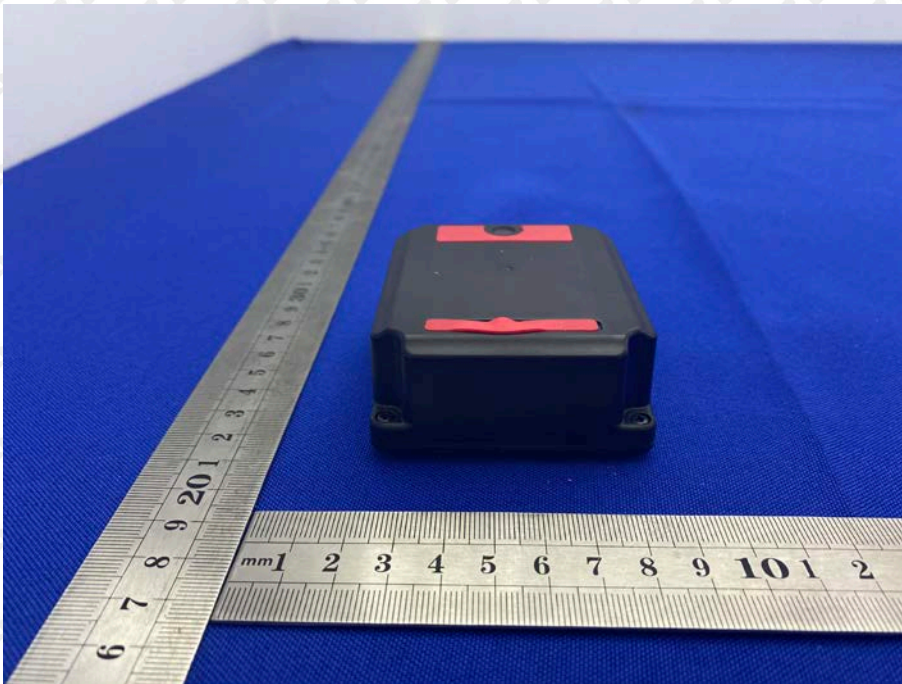
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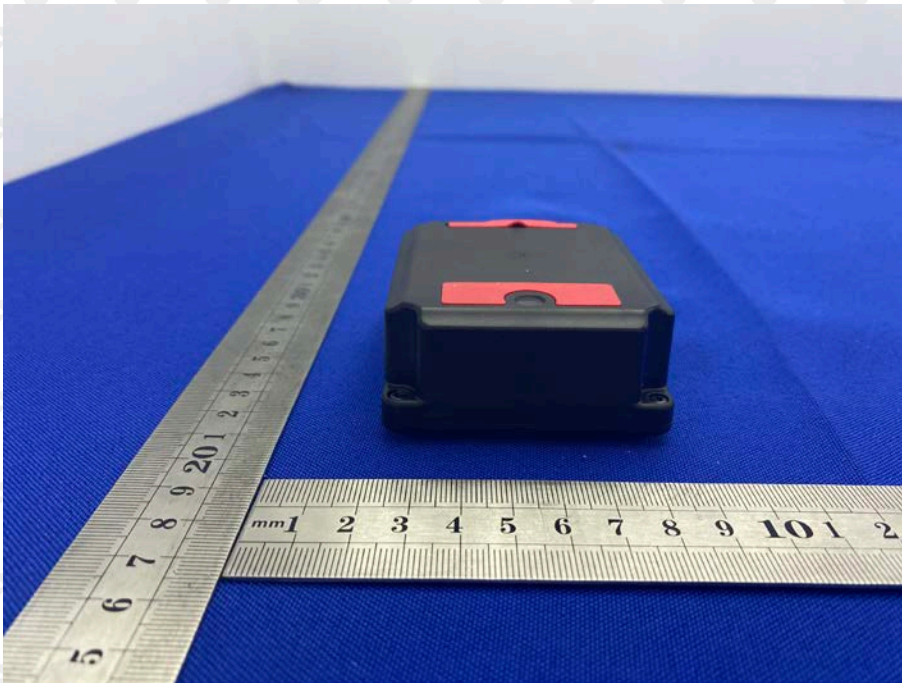
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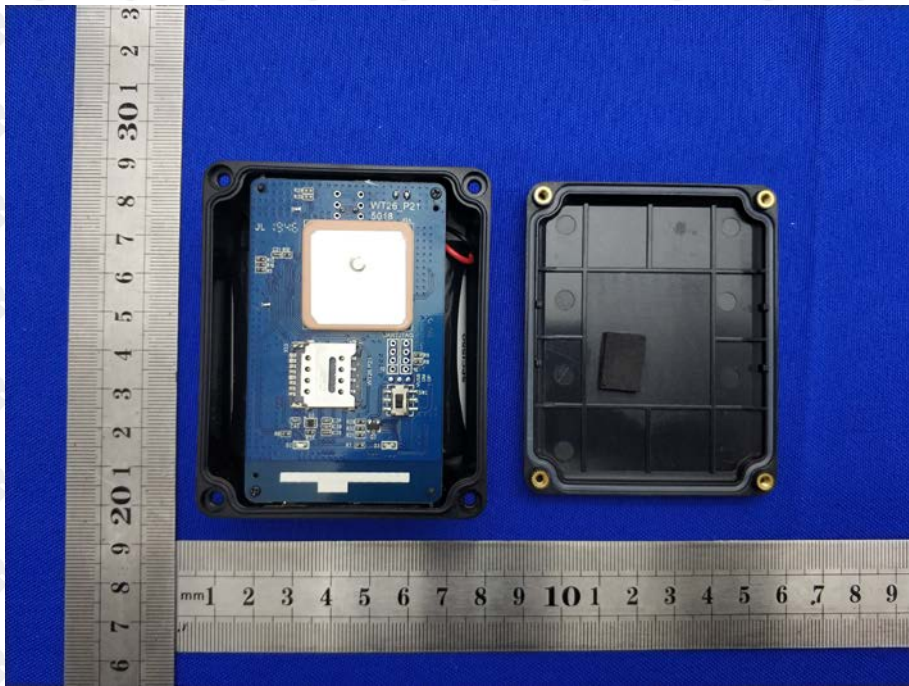
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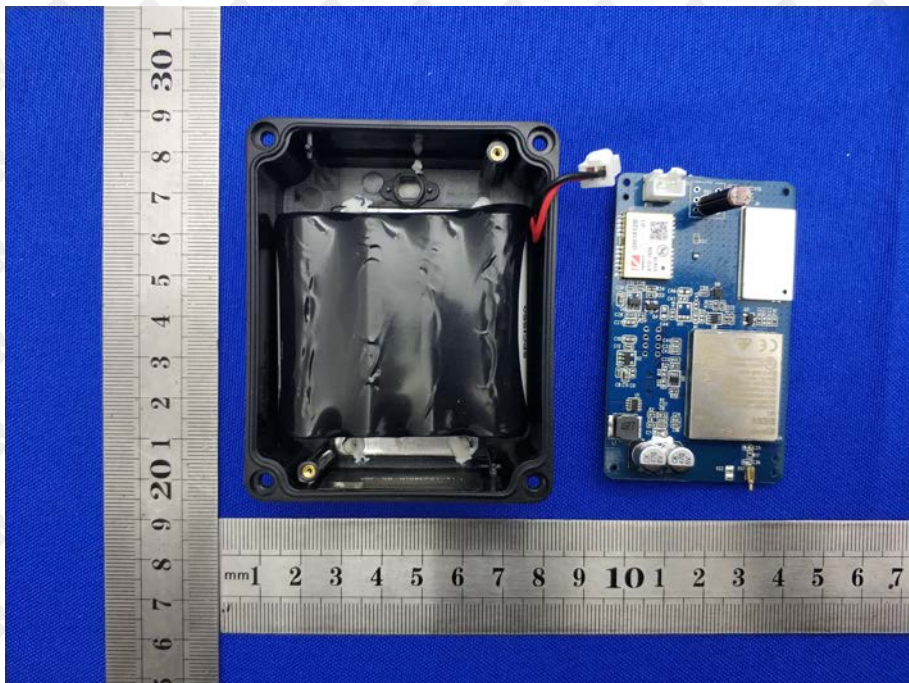
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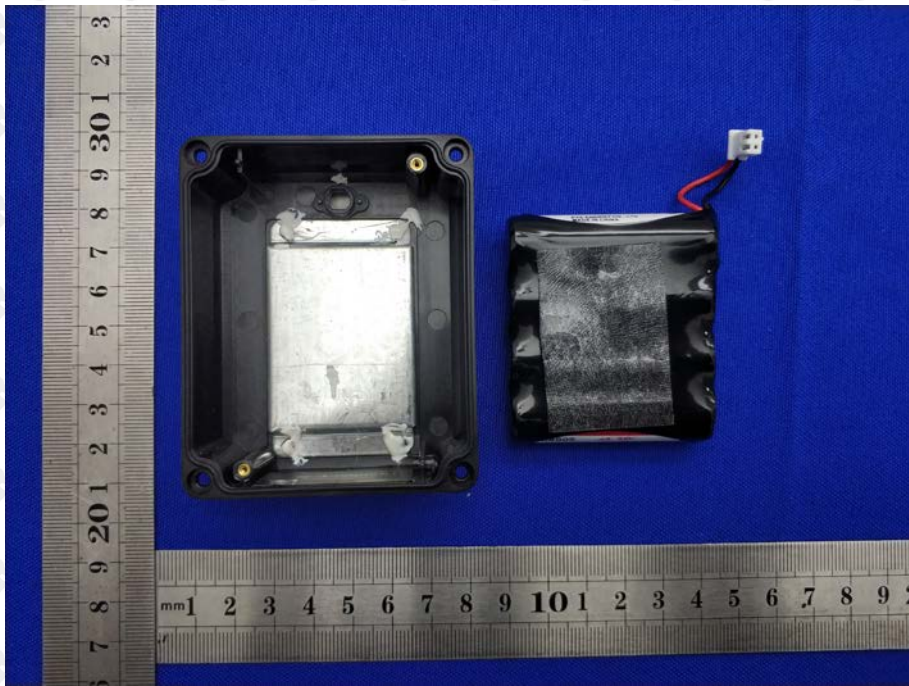
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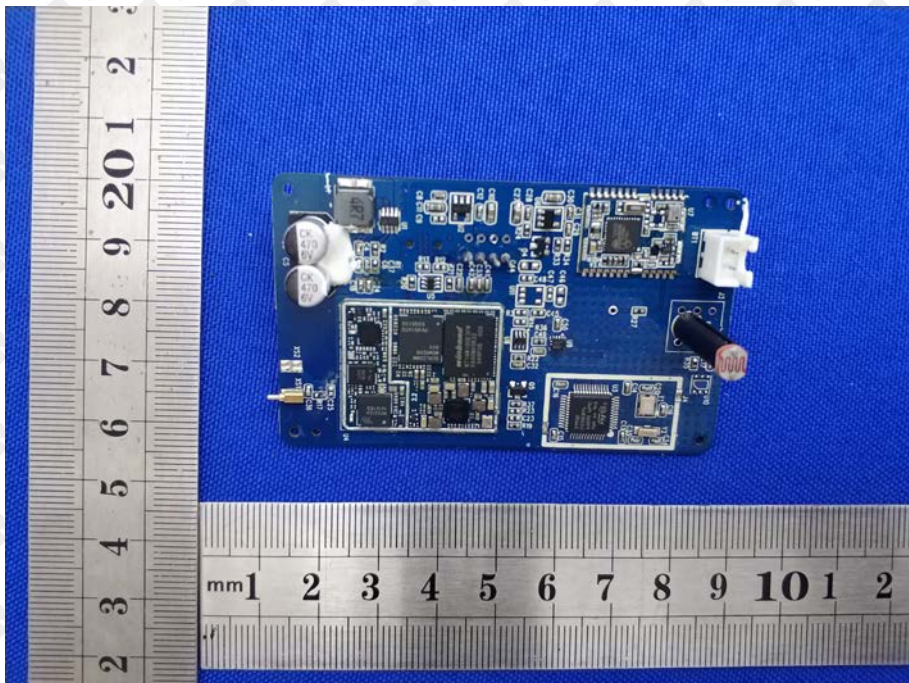
EUT Photo 8



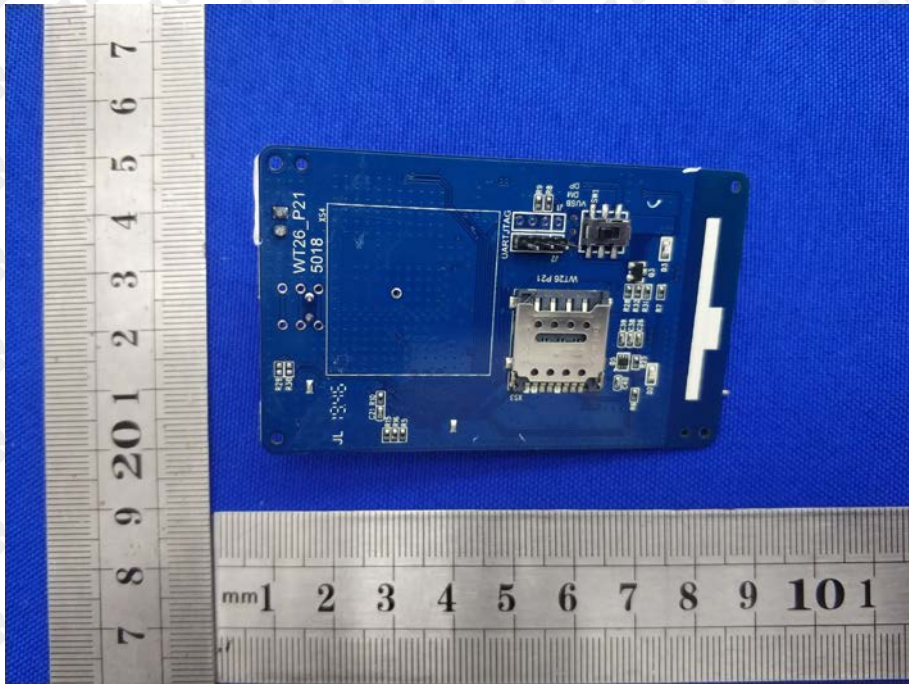
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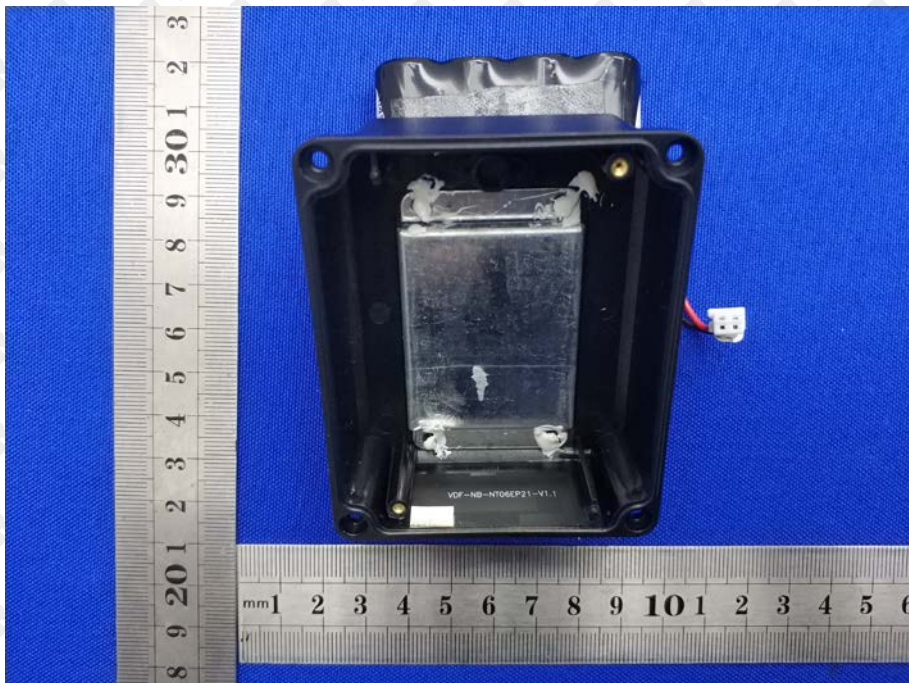
EUT Photo 10



EUT Photo 11



EUT Photo 12



EUT Photo 13



15. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission



***** END OF REPORT *****