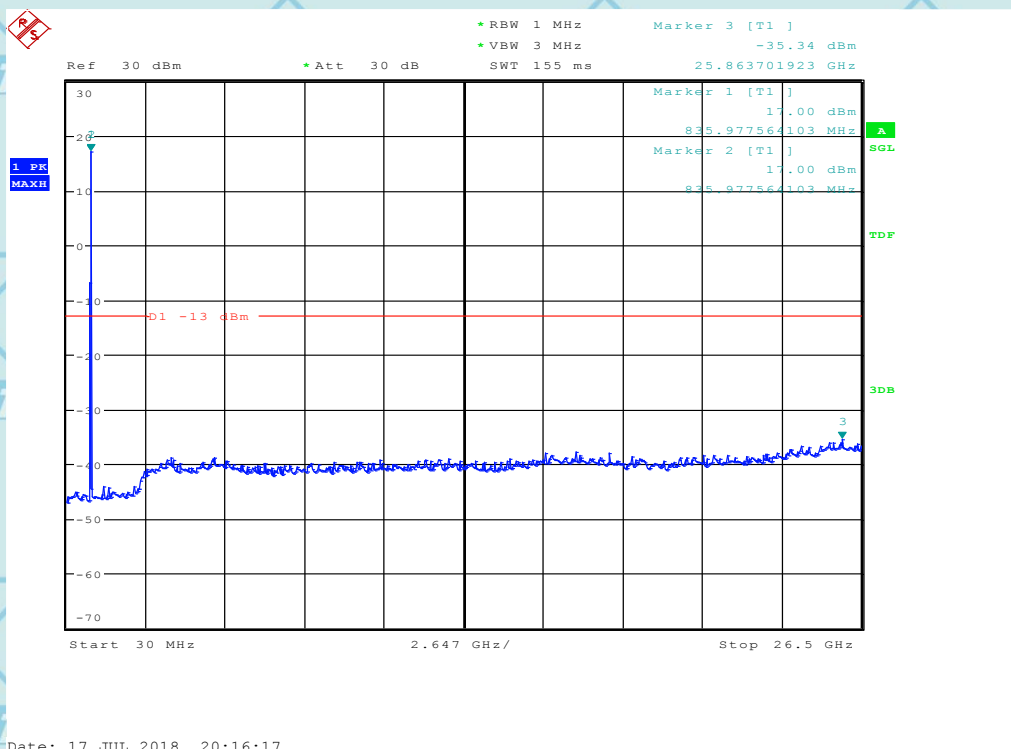


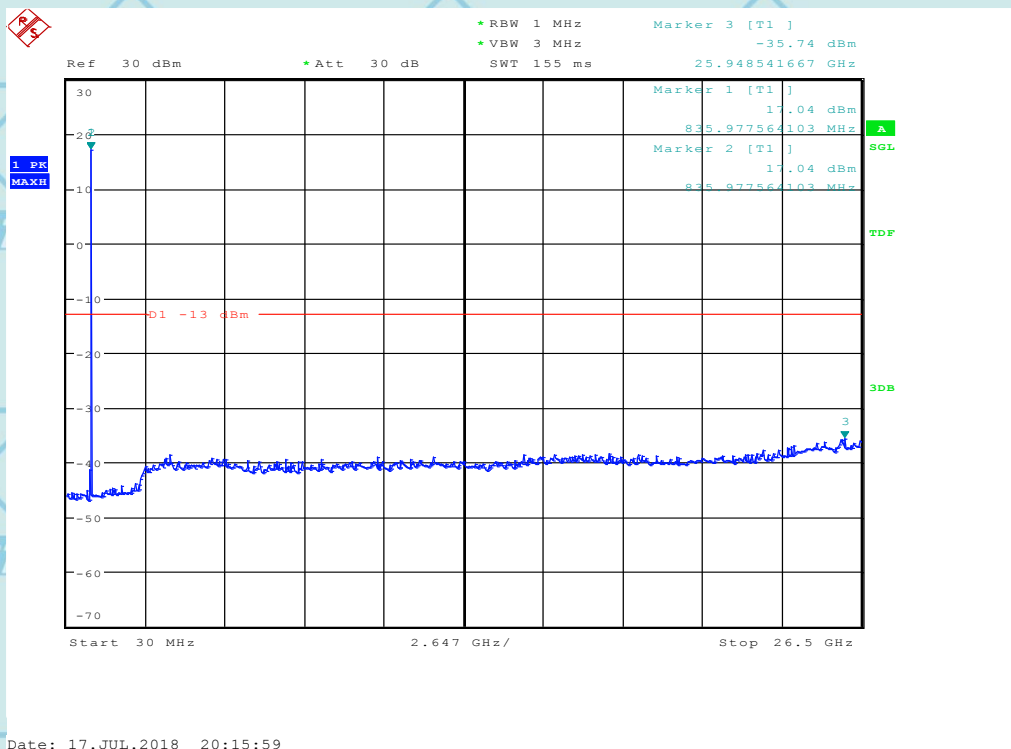


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BW5MHz-836.5MHz,QPSK-25RB_LOW@Pass



BW5MHz-846.5MHz,Q16-25RB_LOW@Pass



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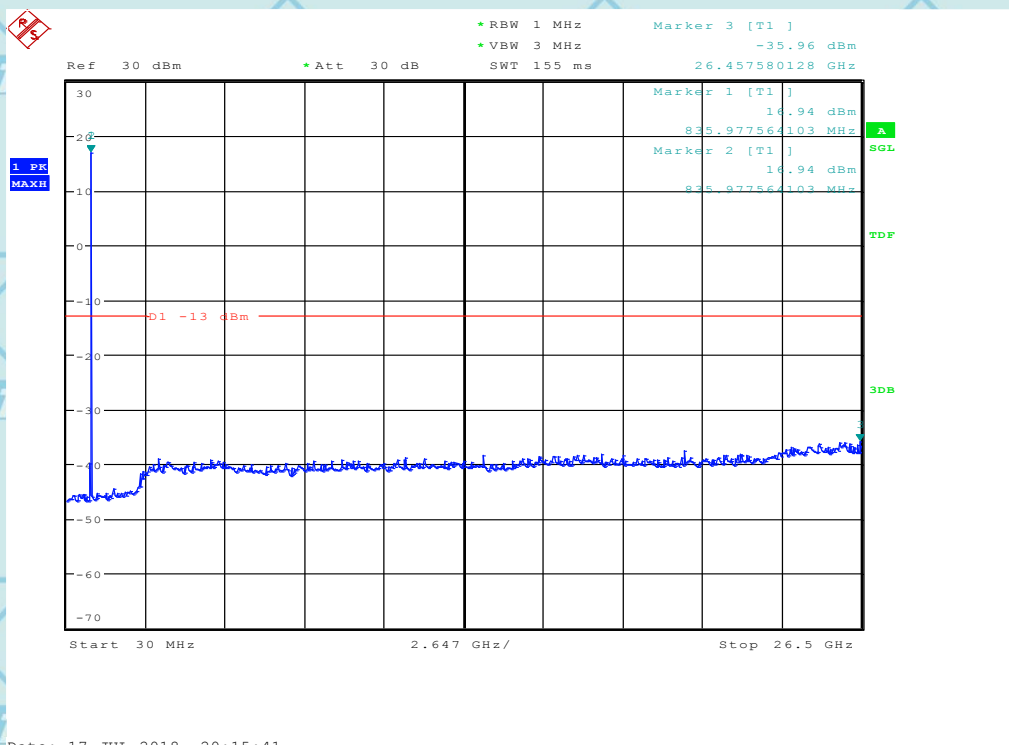
ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http:www.wsct-cert.com

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BW5MHz-846.5MHz,QPSK-25RB_LOW@Pass



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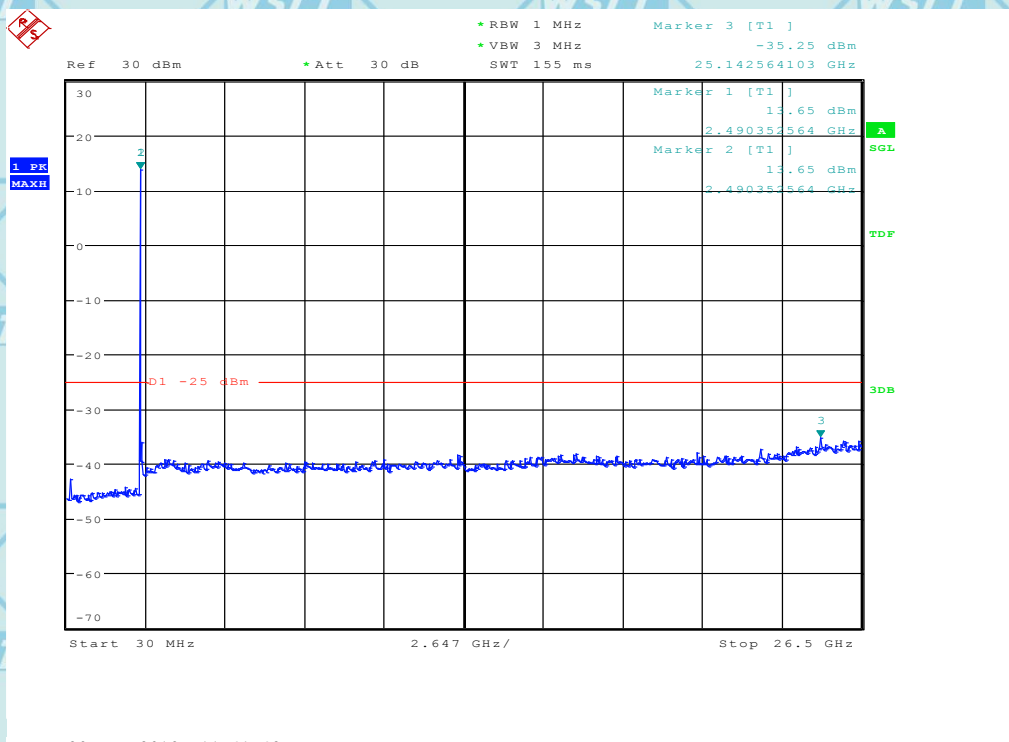
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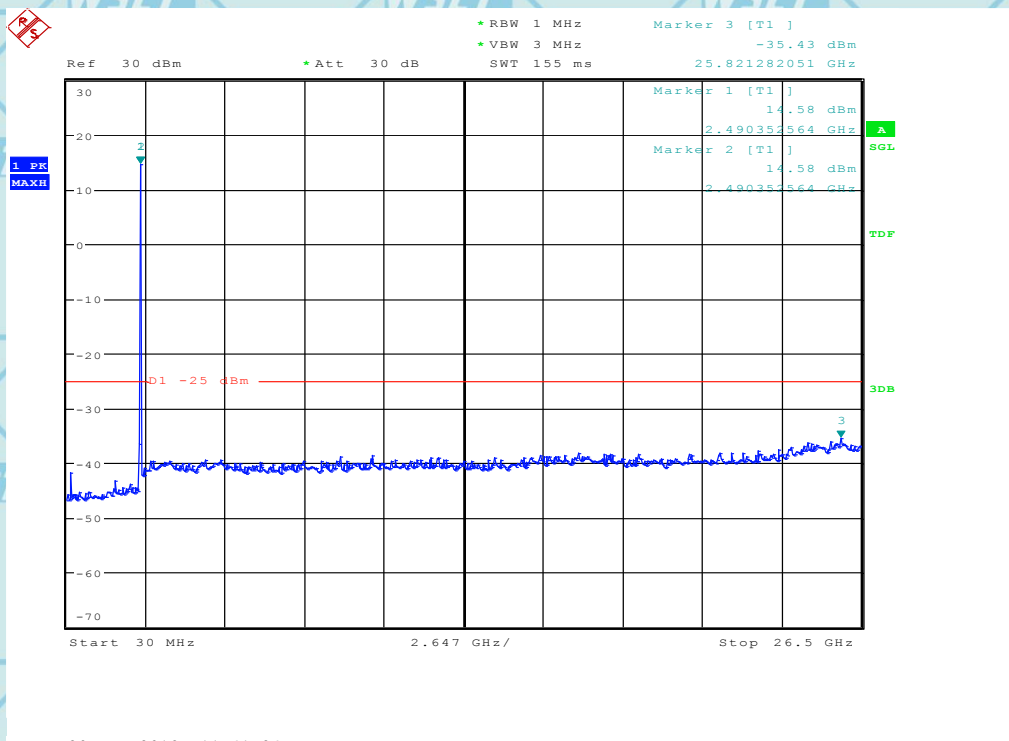
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BAND 7@Conducted Spurious Emission

BW10MHz-2505MHz,Q16-50RB_LOW@Pass



BW10MHz-2505MHz,QPSK-50RB_LOW@Pass



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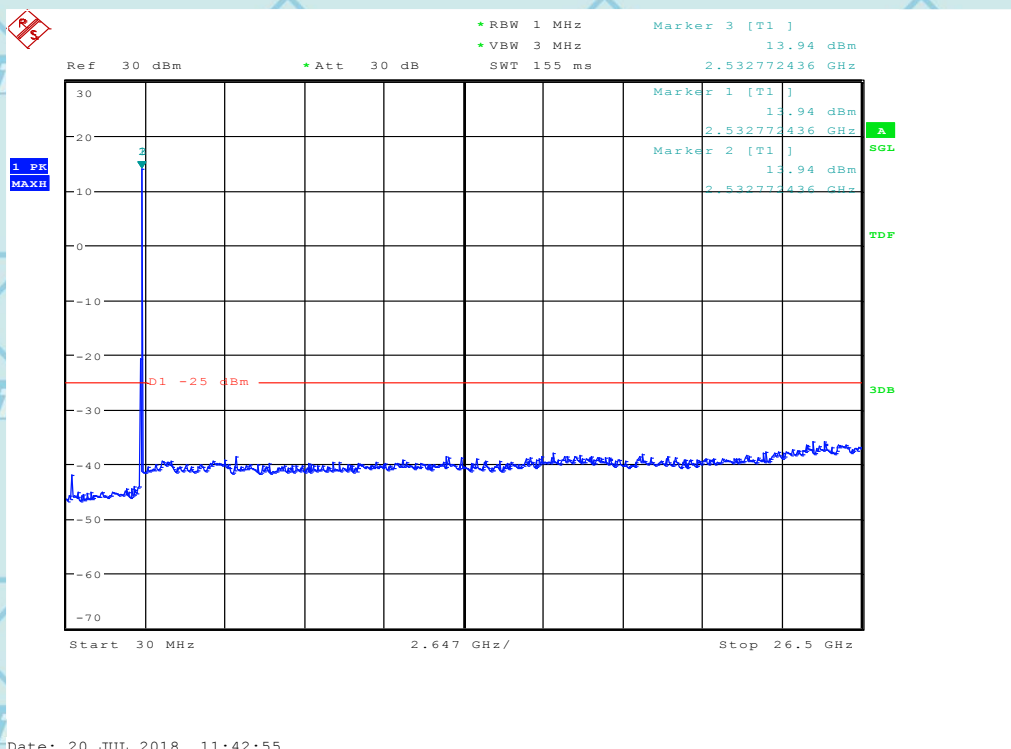
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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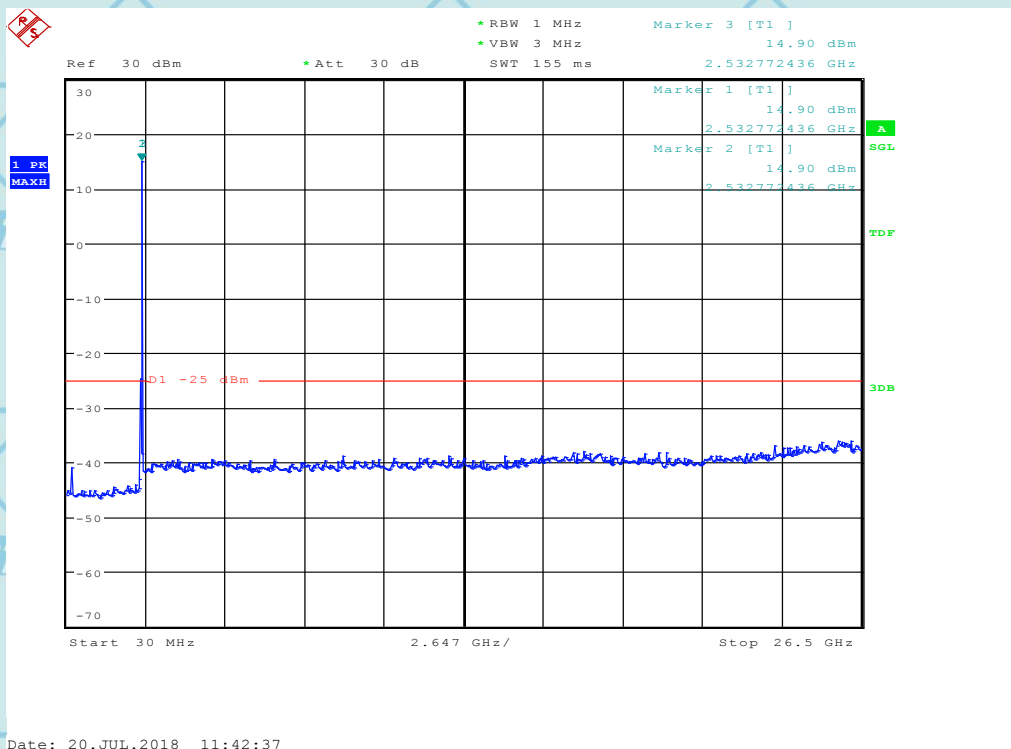


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BW10MHz-2535MHz,Q16-50RB_LOW@Pass



BW10MHz-2535MHz,QPSK-50RB_LOW@Pass



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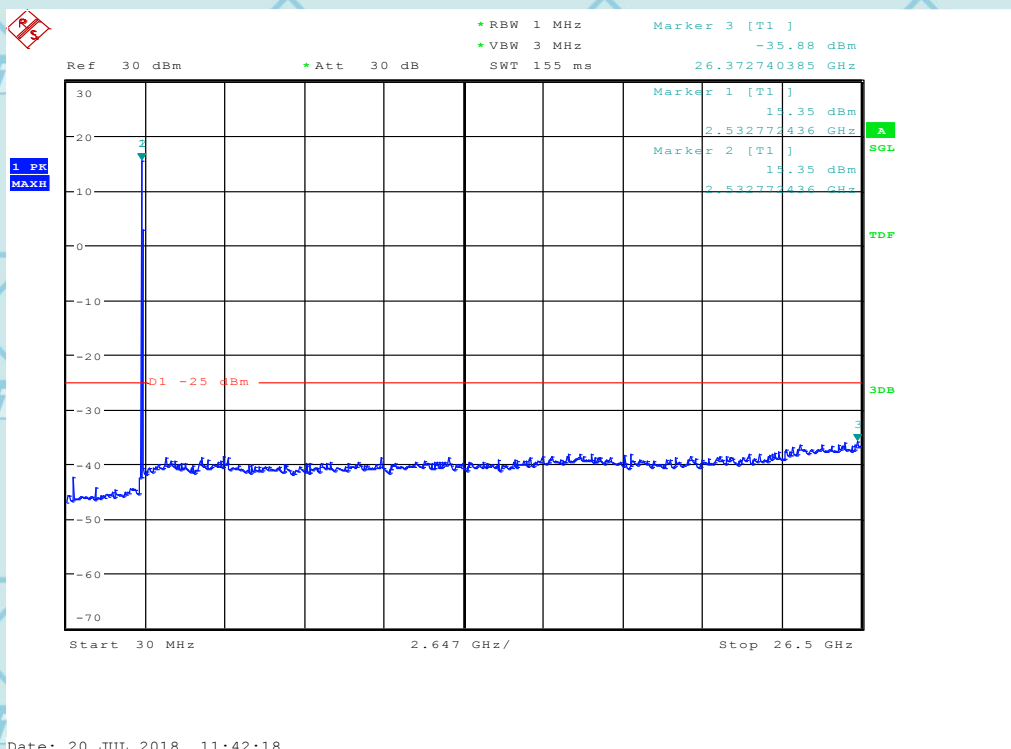
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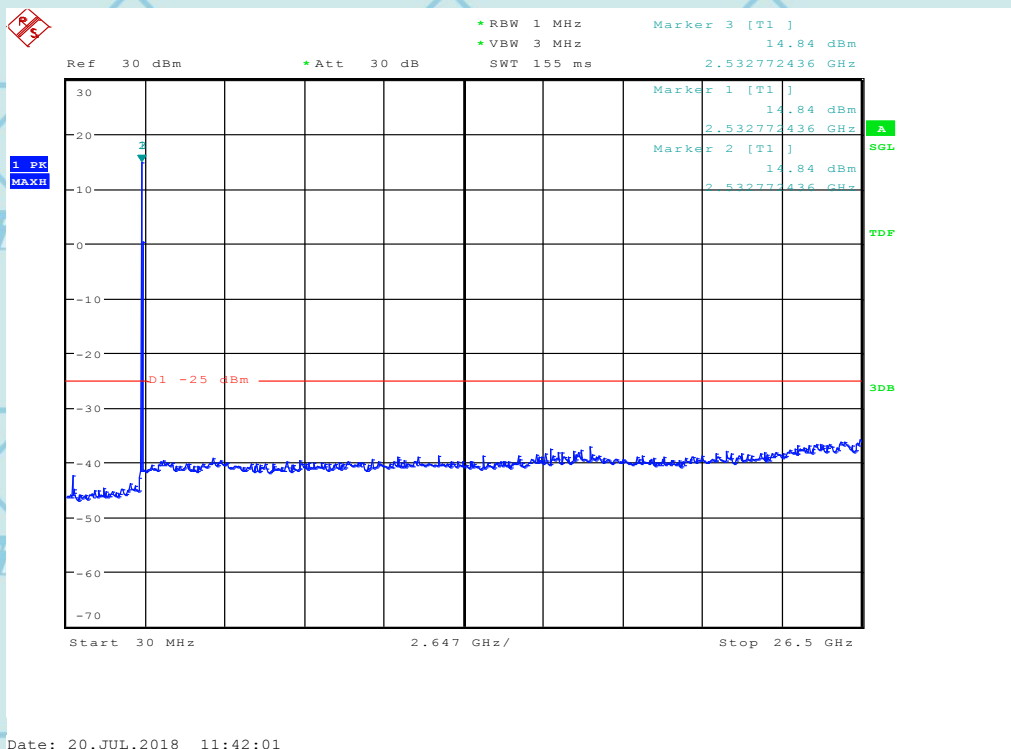


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BW10MHz-2565MHz,Q16-50RB_LOW@Pass



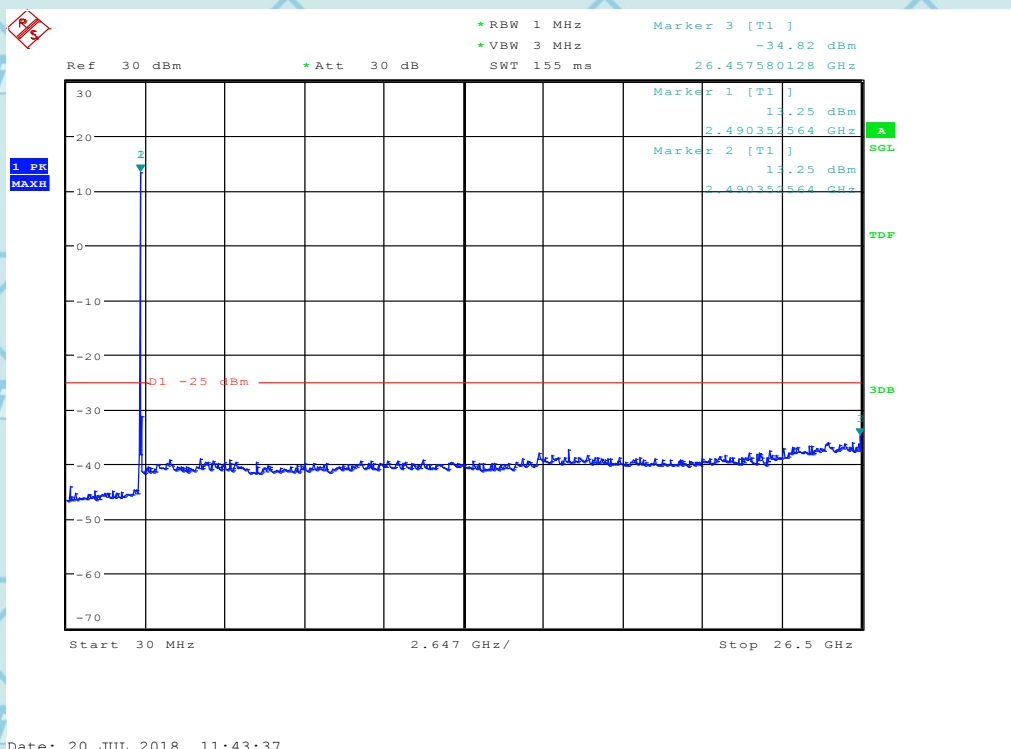
BW10MHz-2565MHz,QPSK-50RB_LOW@Pass



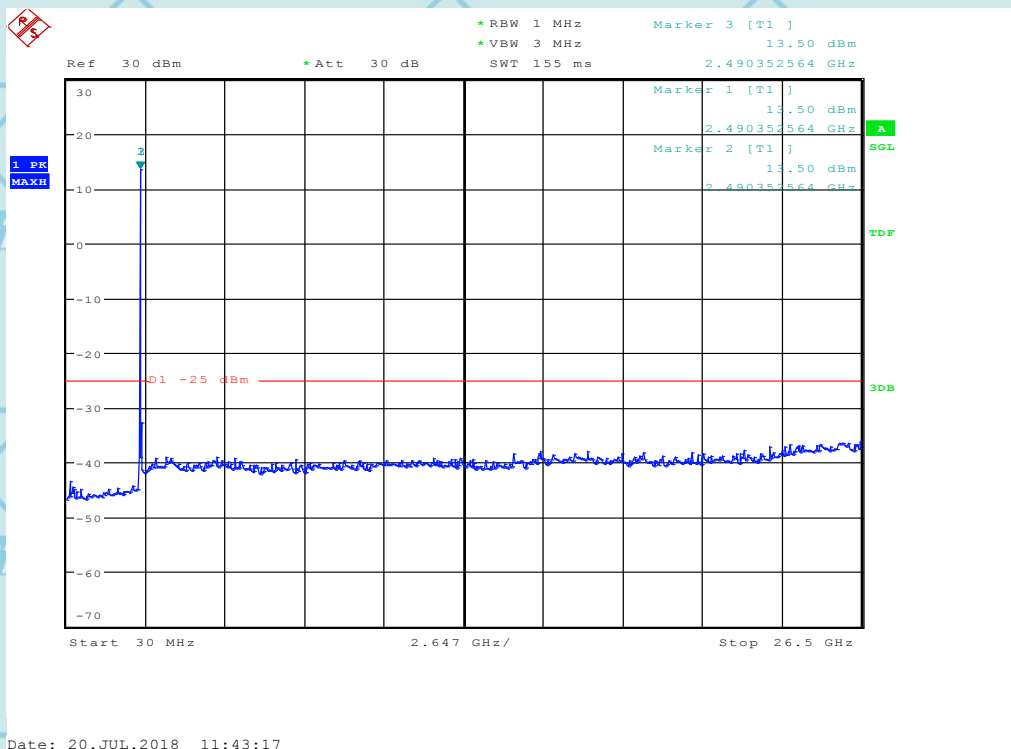


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BW15MHz-2507.5MHz,Q16-75RB_LOW@Pass



BW15MHz-2507.5MHz,QPSK-75RB_LOW@Pass



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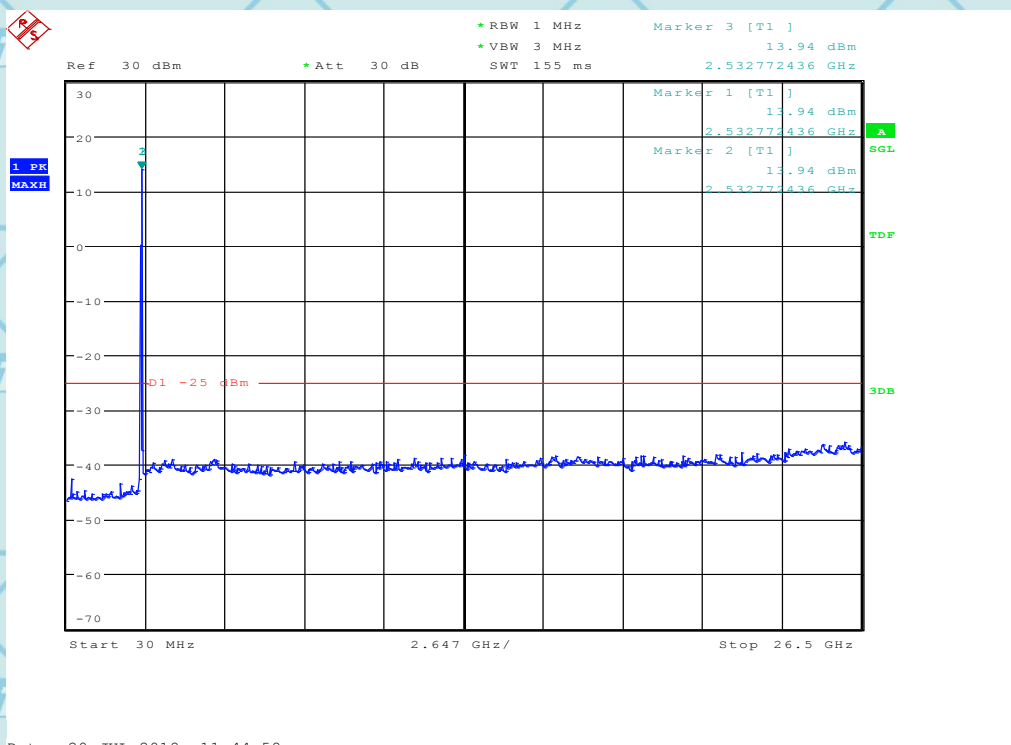
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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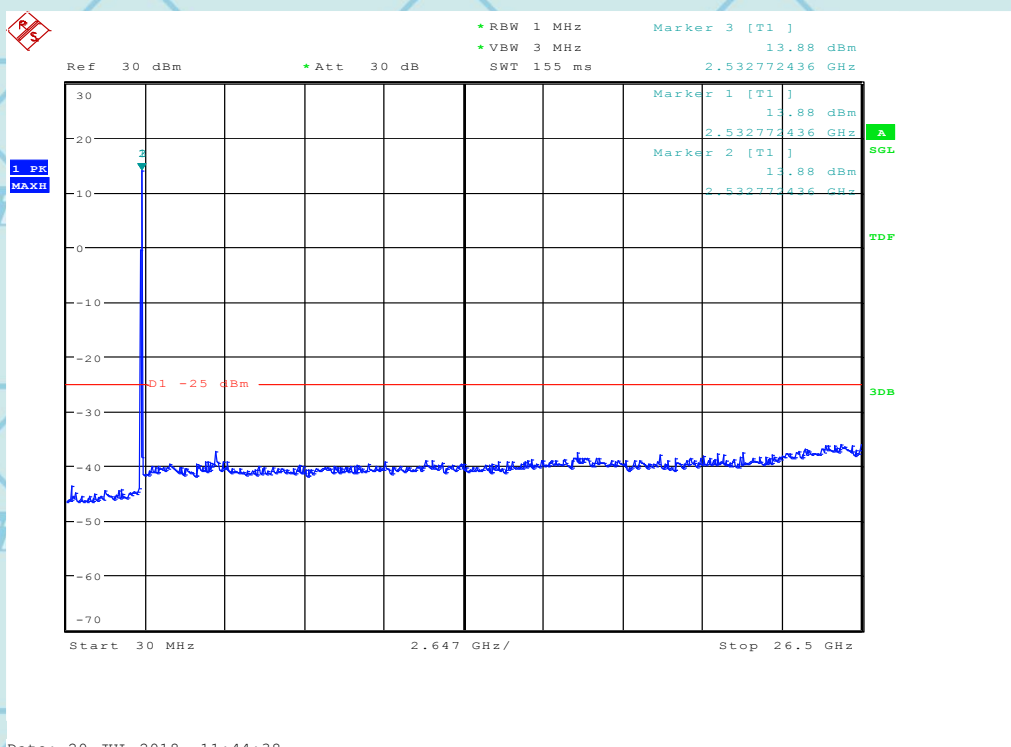


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BW15MHz-2535MHz,Q16-75RB_LOW@Pass



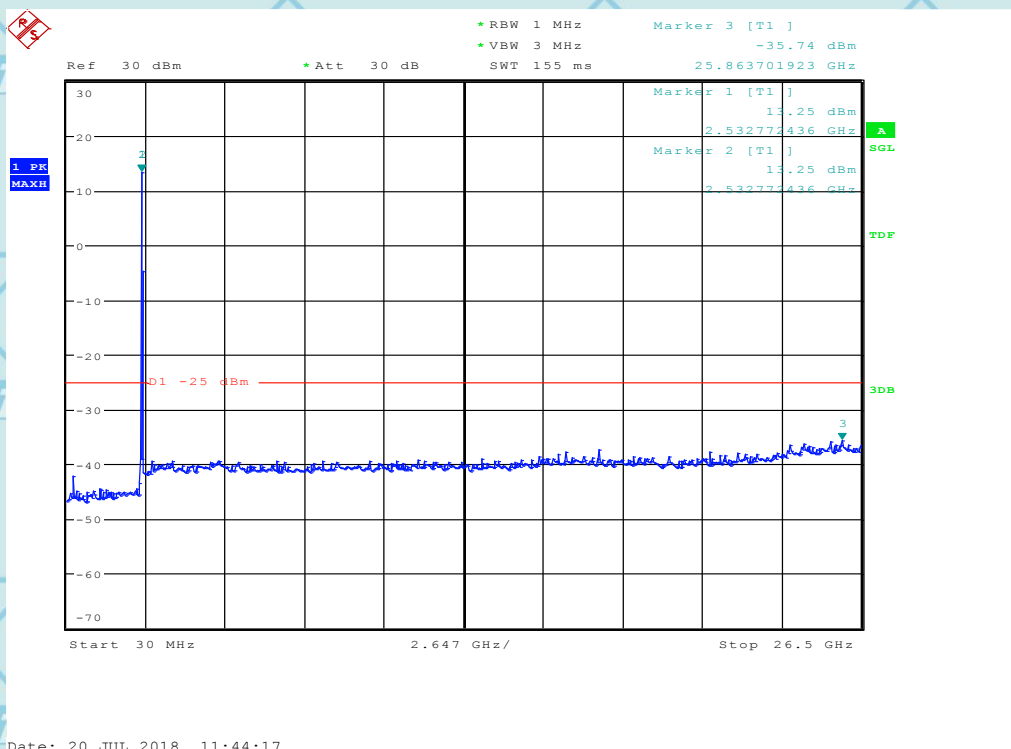
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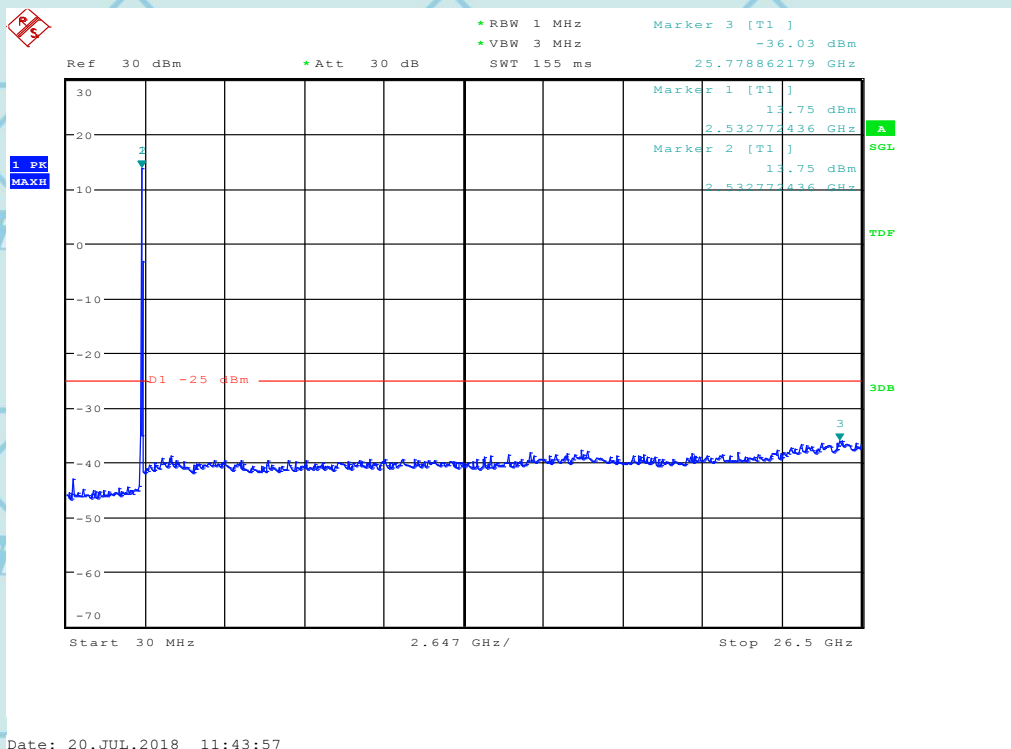


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BW15MHz-2562.5MHz,Q16-75RB_LOW@Pass



BW15MHz-2562.5MHz,QPSK-75RB_LOW@Pass



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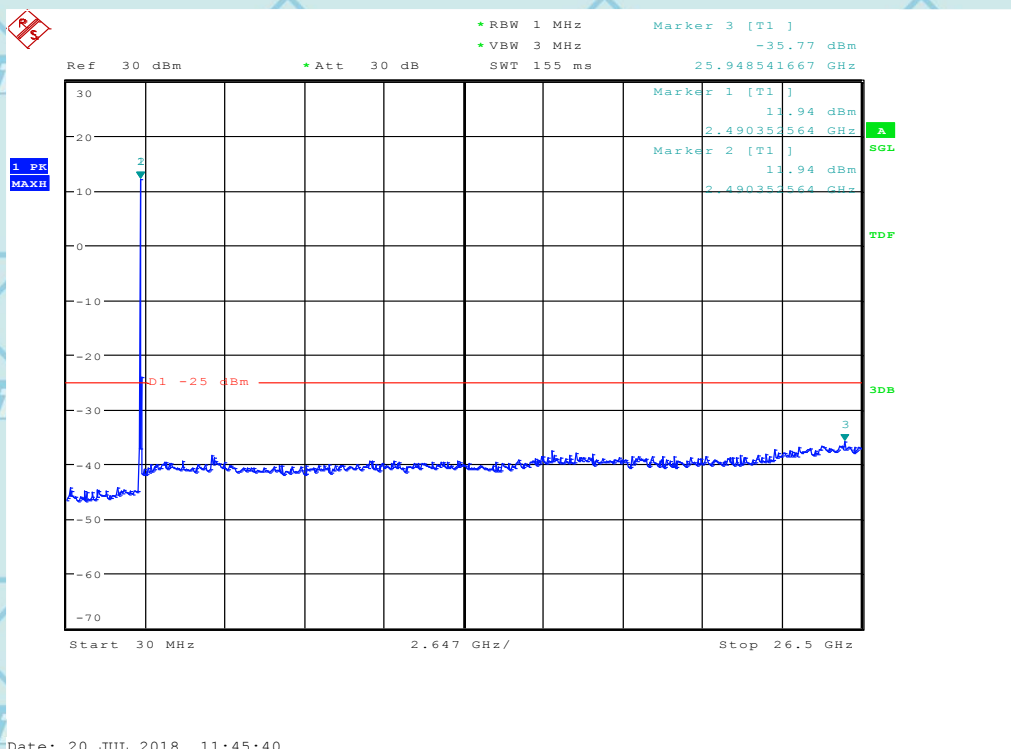
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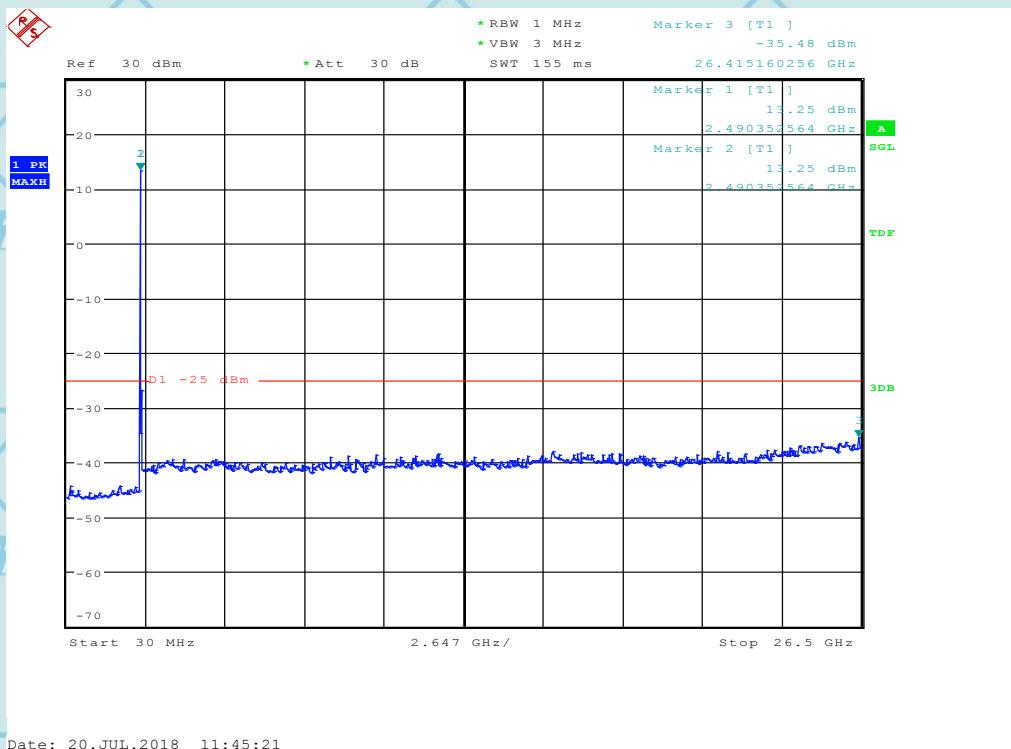


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BW20MHz-2510MHz,Q16-100RB_LOW@Pass



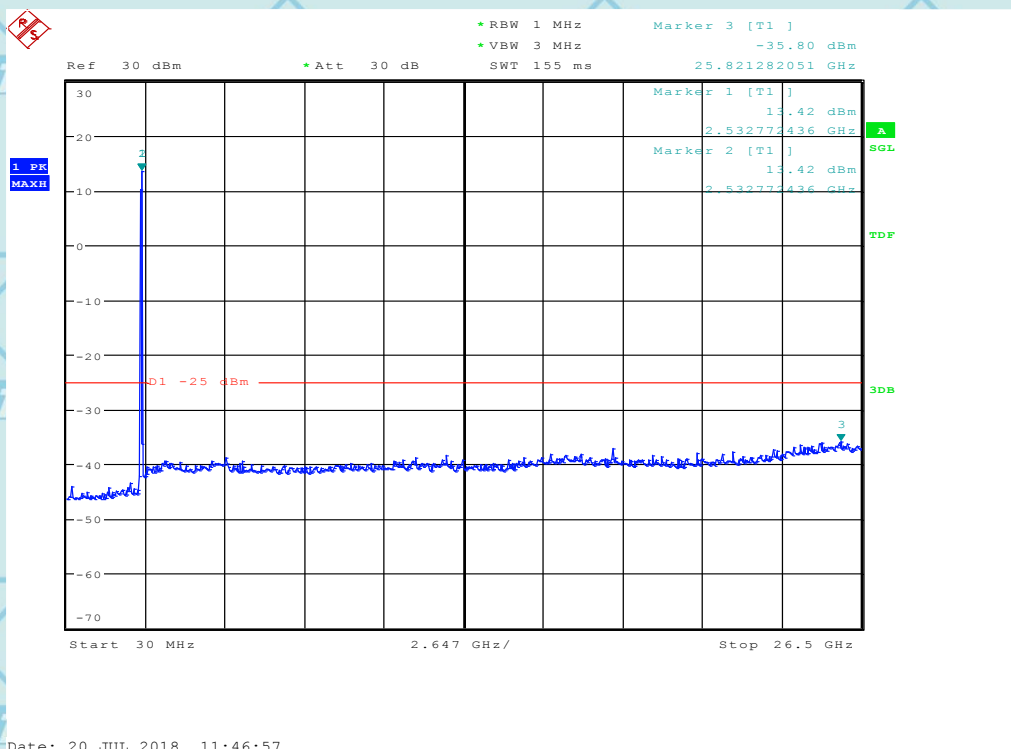
BW20MHz-2510MHz,QPSK-100RB_LOW@Pass



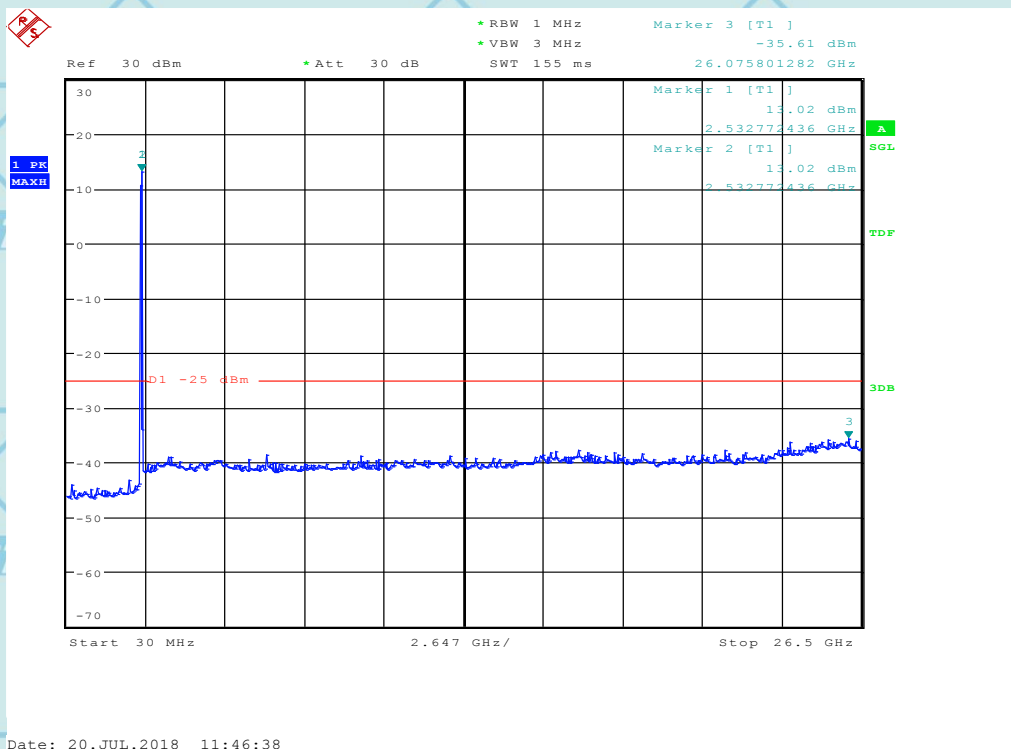


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BW20MHz-2535MHz,Q16-100RB_LOW@Pass



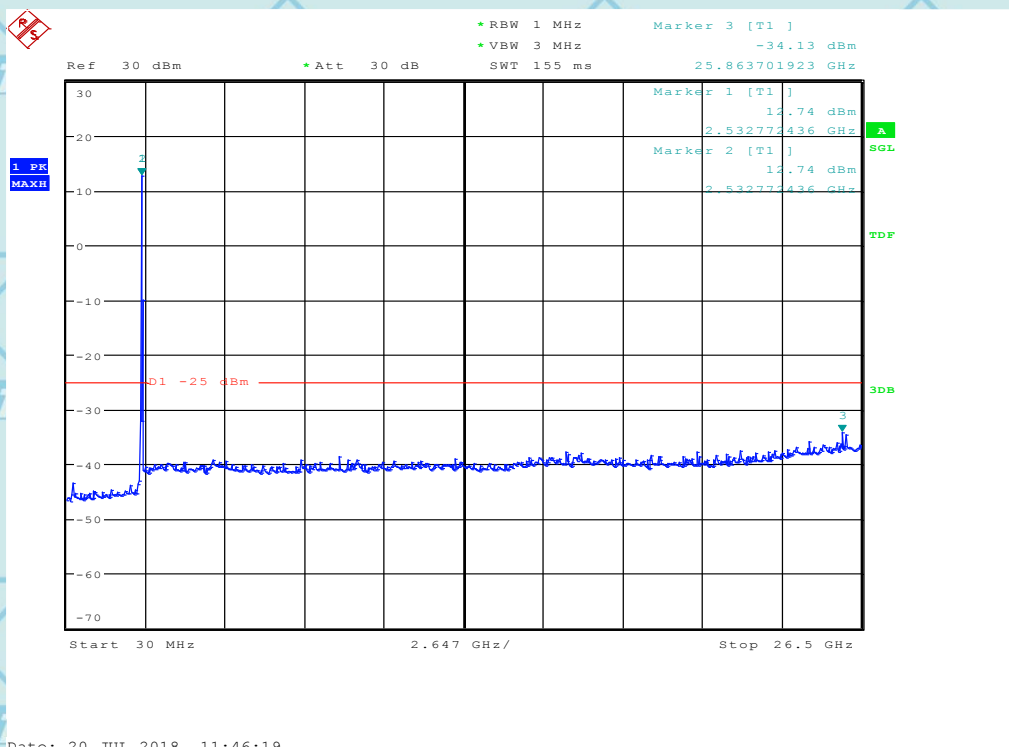
BW20MHz-2535MHz,QPSK-100RB_LOW@Pass



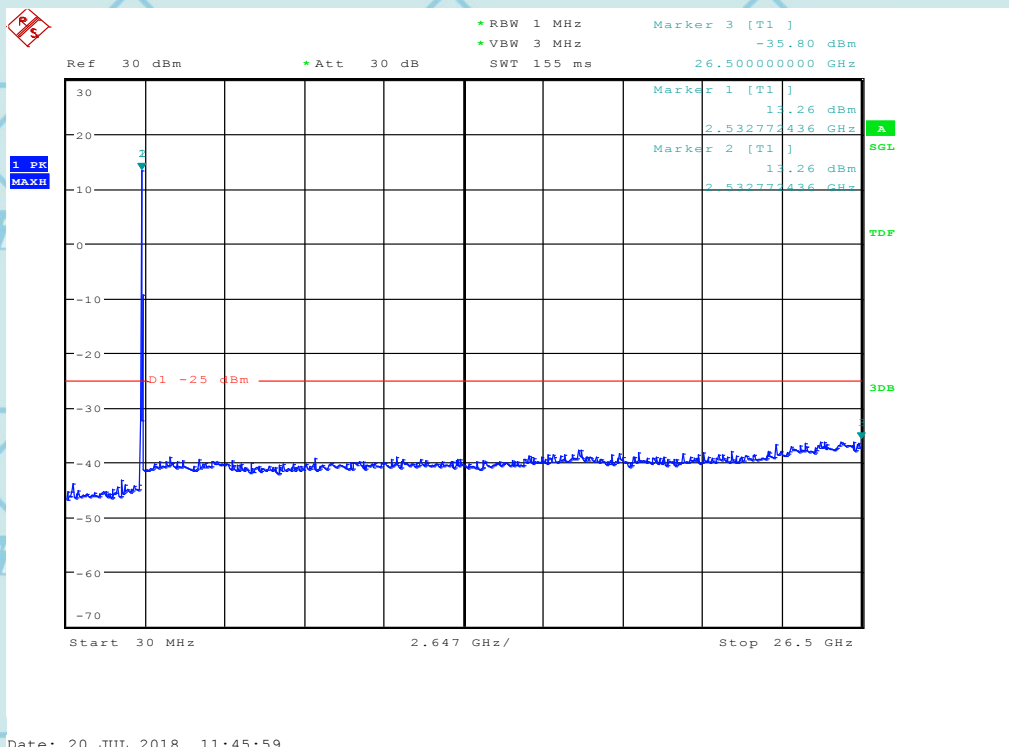


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BW20MHz-2560MHz,Q16-100RB_LOW@Pass



BW20MHz-2560MHz,QPSK-100RB_LOW@Pass



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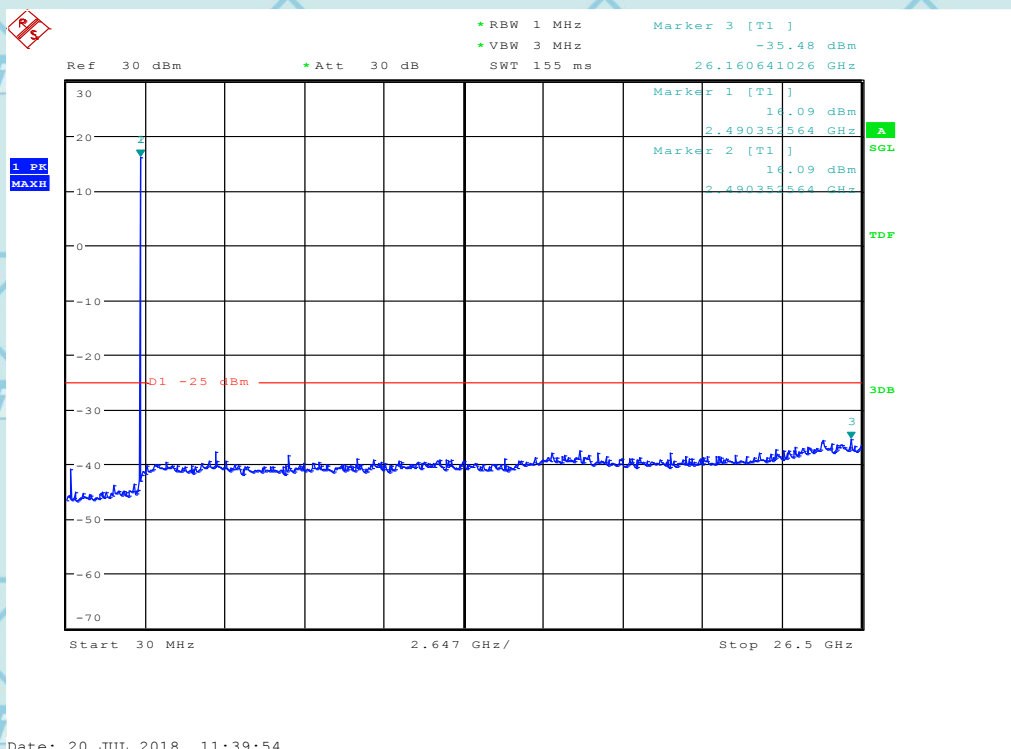
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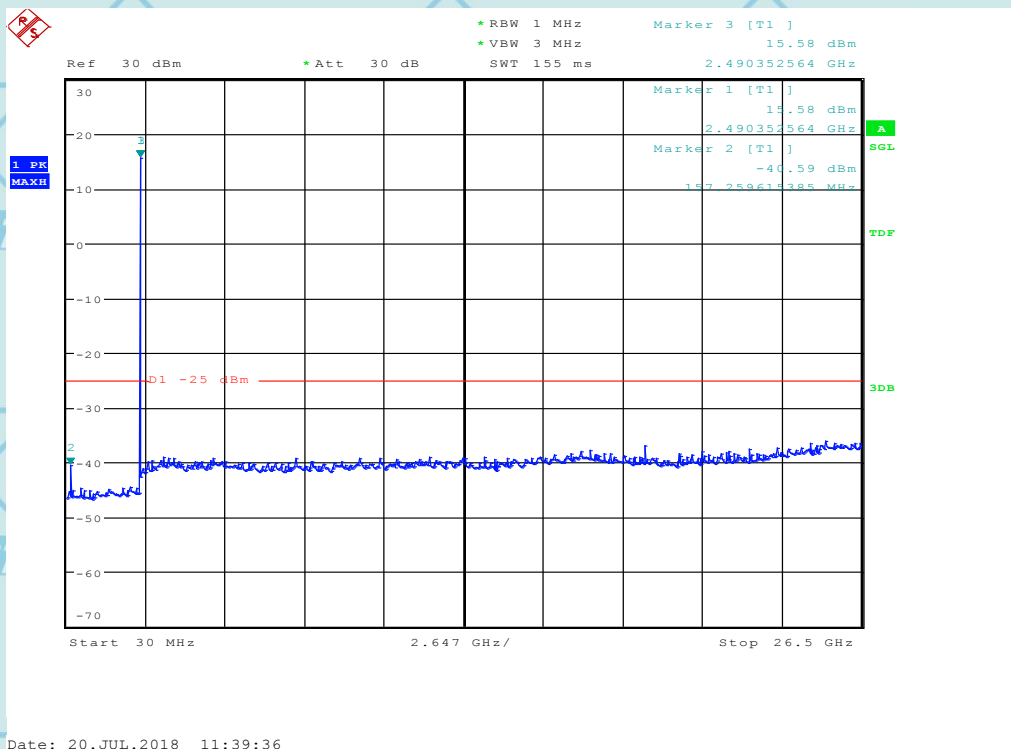


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BW5MHz-2502.5MHz,Q16-25RB_LOW@Pass



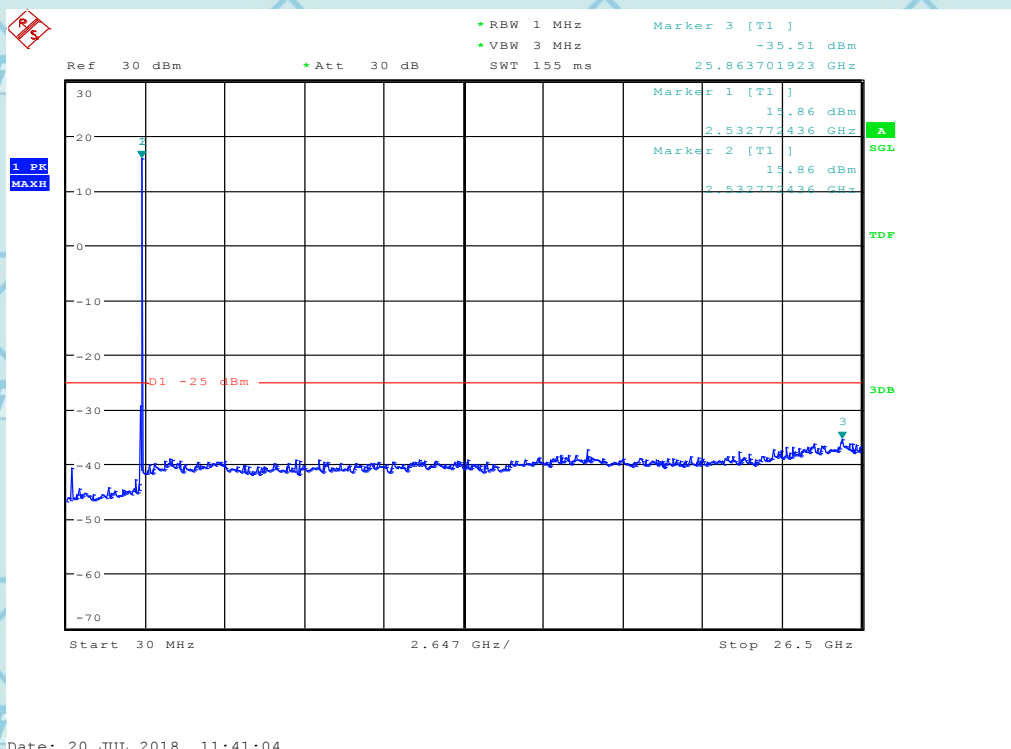
BW5MHz-2502.5MHz,QPSK-25RB_LOW@Pass



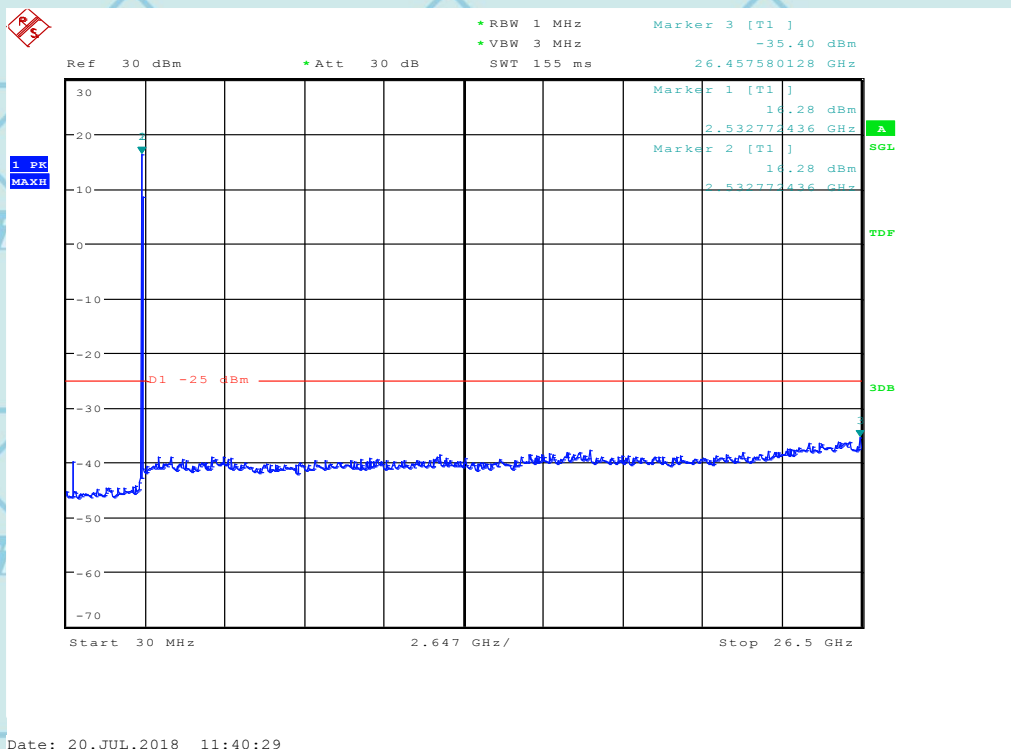


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BW5MHz-2535MHz,QPSK-25RB_LOW@Pass



BW5MHz-2567.5MHz,Q16-25RB_LOW@Pass



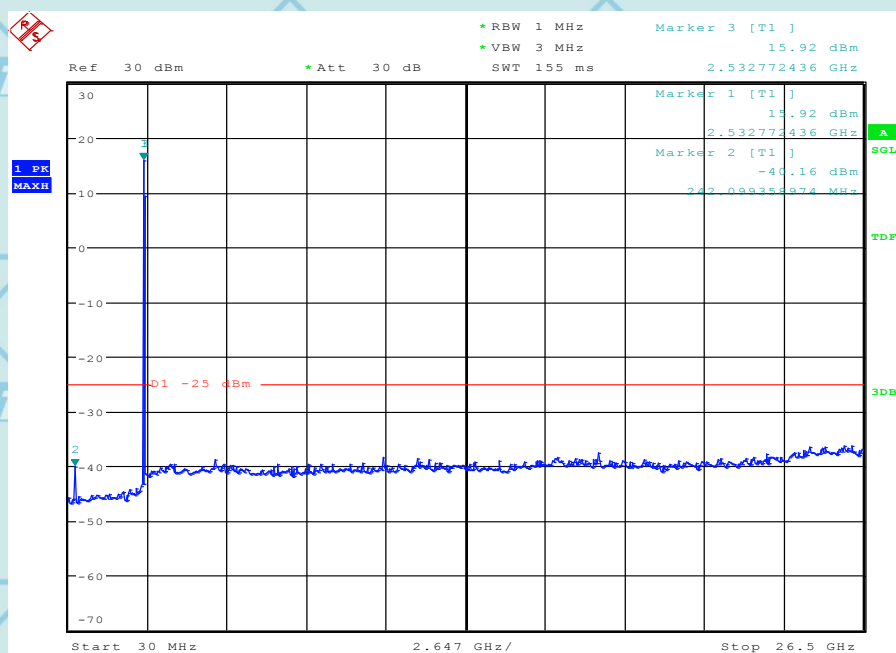
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BW5MHz-2567.5MHz,QPSK-25RB_LOW@Pass



Date: 20.JUL.2018 11:40:12



Radiated method

Test limit:

The spurious (unwanted) emission limits specified in the individual FCC rule parts applicable to licensed digital transmitters (typically referred to under the heading 'emission limits') normally apply to any and all emissions that are present outside of the authorized frequency band/block and apply to emissions in both the out-of-band and spurious domains. In some rule parts, the unwanted emission limits are specified by an emission mask that defines the applicable limit as a function of the frequency range relative to the authorized frequency block.

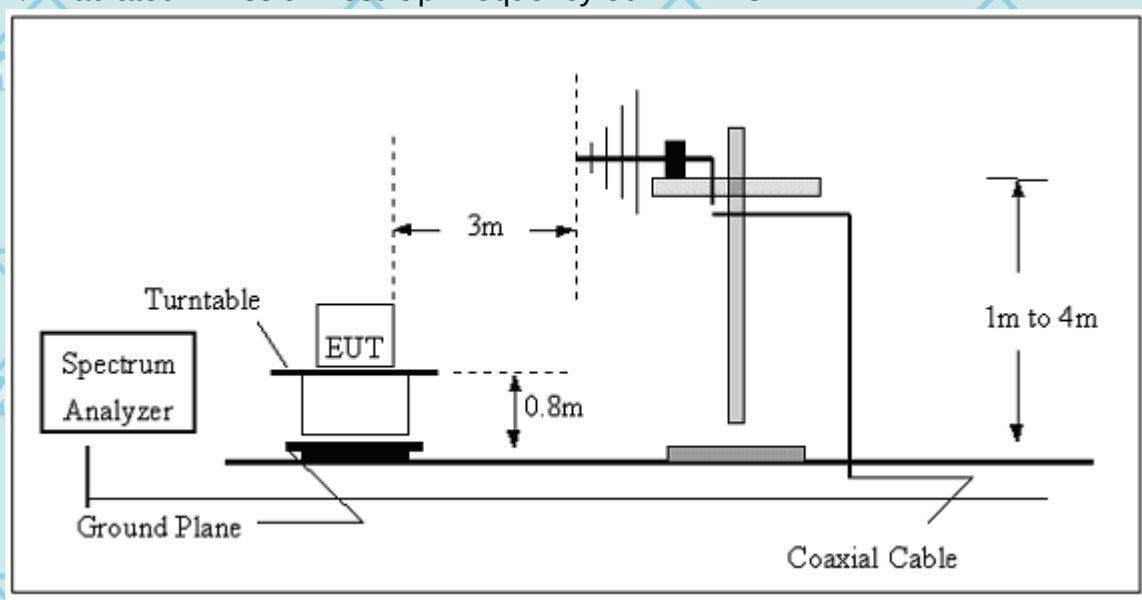
Typically, unwanted emissions are required by the licensed rule parts to be attenuated below the transmitter power by a factor of at least $X + 10\log(P)$ dB, where P represents the transmitter power expressed in watts and X is a specified scalar value (e.g., 43). This specification can be interpreted in one of two equivalent ways. First, the required attenuation can be construed to be relative to the mean carrier power, with the resultant of the equation $X + 10\log(P)$ being expressed in dBc (dB relative to the maximum carrier power). Alternatively, the specification can be interpreted as an absolute limit when the specified attenuation is actually subtracted from the maximum permissible transmitter power [i.e., $10\log(P) - \{X + 10\log(P)\}$], resulting in an absolute level of $-X$ dBW [or $(-X + 30)$ dBm]. See section 4.

Test procedure:

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site. The resolution bandwidth of the spectrum analyzer was set at 100 kHz below 1 GHz and 1 MHz above 1 GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.

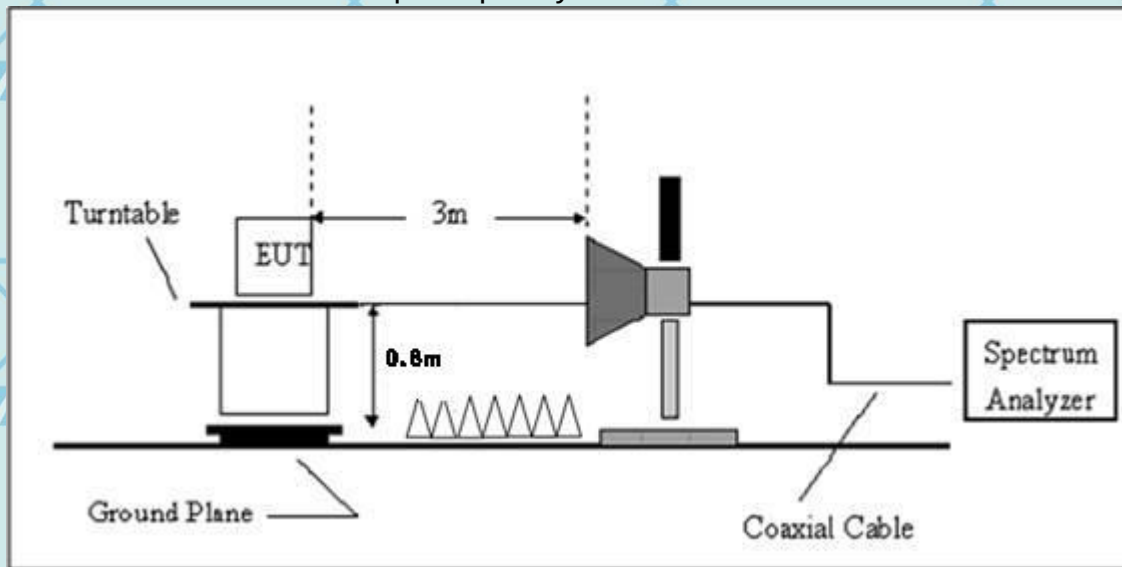
Test setup:

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz





(B) Radiated Emission Test-Up Frequency Above 1GHz



Note:

1, Below 30MHz no Spurious found.

2, UE is positioned at 3 axis at the pre-scan stage, and only the measurement of the worst case (bandwidth: 20MHz / Full RB / QPSK) is reported in this part.



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**List of final test modes:
GSM850:**

Mode	UL Channel	Frequency	Judgement
1	128	824.2	Pass
2	190	836.6	Pass
3	251	848.8	Pass

PCS1900

Mode	UL Channel	Frequency	Judgement
1	512	1850.2	Pass
2	661	1880	Pass
3	810	1909.8	Pass

**UTRA BANDS
BAND 2:**

Mode	UL Channel	Frequency	Judgement
1	9262	1852.4	Pass
2	9400	1880	Pass
3	9538	1907.6	Pass

BAND 4:.

Mode	UL Channel	Frequency	Judgement
1	1312	1712.4	Pass
2	1413	1732.6	Pass
3	1513	1752.6	Pass

BAND 5:

Mode	UL Channel	Frequency	Judgement
1	4132	826.4	Pass
2	4182	836.4	Pass
3	4233	846.6	Pass





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E-UTRA BANDS**This is the worst pattern data****BAND 2:**

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	18700	1860	QPSK	100	LOW	Pass
2	20	18900	1880	QPSK	100	LOW	Pass
3	20	19100	1900	QPSK	100	LOW	Pass

BAND 4:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	20050	1720	Q16	100	LOW	Pass
2	20	20300	1745	Q16	100	LOW	Pass
3	20	20175	1732.5	Q16	100	LOW	Pass

BAND 5:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	10	20450	829	QPSK	50	LOW	Pass
2	10	20525	836.5	QPSK	50	LOW	Pass
3	10	20600	844	QPSK	50	LOW	Pass

BAND 7:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	20850	2510	QPSK	100	LOW	Pass
2	20	21350	2560	QPSK	100	LOW	Pass
3	20	21100	2535	QPSK	100	LOW	Pass




 Test record:
 Note:

- The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the AR_{pl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$$\text{Power} = P_{\text{Mea}} + AR_{pl}$$

- $AR_{pl} = \text{Cable loss} + \text{Antenna gain}$

GSM850:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1648.4	-34.22	0.5	-34.72	-13	Horizontal
1648.4	-30.20	0.5	-30.70	-13	Vertical
2472.6	-31.63	0.5	-32.13	-13	Horizontal
2472.6	-33.14	0.5	-33.64	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1673.2	-30.44	0.5	-30.94	-13	Horizontal
1673.2	-33.99	0.5	-34.49	-13	Vertical
2509.8	-35.34	0.5	-35.84	-13	Horizontal
2509.8	-35.89	0.5	-36.39	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1697.6	-31.20	0.5	-31.70	-13	Horizontal
1697.6	-30.82	0.5	-31.32	-13	Vertical
2546.4	-36.65	0.5	-37.15	-13	Horizontal
2546.4	-34.45	0.5	-34.95	-13	Vertical

PCS1900:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3700.4	-35.61	1.48	-37.09	-13	Horizontal
3700.4	-33.75	1.48	-35.23	-13	Vertical
5550.6	-36.23	1.48	-37.71	-13	Horizontal
5550.6	-28.19	1.48	-29.67	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3760	-37.88	1.48	-39.36	-13	Horizontal
3760	-33.66	1.48	-35.14	-13	Vertical
5640	-34.89	1.48	-36.37	-13	Horizontal
5640	-31.91	1.48	-33.39	-13	Vertical





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Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3819.6	-33.83	1.48	-35.31	-13	Horizontal
3819.6	-30.57	1.48	-32.05	-13	Vertical
5729.4	-28.84	1.48	-30.32	-13	Horizontal
5729.4	-35.34	1.48	-36.82	-13	Vertical

UTRA BANDS BAND 2:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3704.8	-60.10	1.48	-61.58	-13	Horizontal
3704.8	-67.20	1.48	-68.68	-13	Vertical
5557.2	-59.34	1.48	-60.82	-13	Horizontal
5557.2	-60.35	1.48	-61.83	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3760	-61.00	1.48	-62.48	-13	Horizontal
3760	-61.68	1.48	-63.16	-13	Vertical
5640	-61.62	1.48	-63.10	-13	Horizontal
5640	-59.91	1.48	-61.39	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3815.2	-61.22	1.48	-62.70	-13	Horizontal
3815.2	-64.58	1.48	-66.06	-13	Vertical
5722.8	-59.01	1.48	-60.49	-13	Horizontal
5722.8	-66.51	1.48	-67.99	-13	Vertical

BAND 4:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3424.8	-67.50	1.47	-68.97	-13	Horizontal
3424.8	-66.94	1.47	-68.41	-13	Vertical
5137.2	-67.70	1.47	-69.17	-13	Horizontal
5137.2	-64.08	1.47	-65.55	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3465.2	-66.25	1.47	-67.72	-13	Horizontal
3465.2	-63.73	1.47	-65.20	-13	Vertical
5197.8	-66.42	1.47	-67.89	-13	Horizontal
5197.8	-62.57	1.47	-64.04	-13	Vertical



Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3505.2	-65.64	1.47	-67.11	-13	Horizontal
3505.2	-65.37	1.47	-66.84	-13	Vertical
5257.8	-64.30	1.47	-65.77	-13	Horizontal
5257.8	-65.66	1.47	-67.13	-13	Vertical

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BAND 5:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1652.8	-63.79	0.5	-64.29	-13	Horizontal
1652.8	-61.90	0.5	-62.40	-13	Vertical
2479.2	-63.19	0.5	-63.69	-13	Horizontal
2479.2	-63.65	0.5	-64.15	-13	Vertical

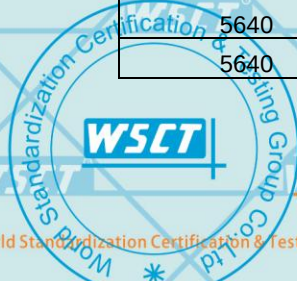
Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1672.8	-61.77	0.5	-62.27	-13	Horizontal
1672.8	-63.45	0.5	-63.95	-13	Vertical
2509.2	-65.30	0.5	-65.80	-13	Horizontal
2509.2	-63.42	0.5	-63.92	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1693.2	-58.33	0.5	-58.83	-13	Horizontal
1693.2	-61.85	0.5	-62.35	-13	Vertical
2539.8	-63.25	0.5	-63.75	-13	Horizontal
2539.8	-64.95	0.5	-65.45	-13	Vertical

**E-UTRA BANDS
BAND 2:**

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3720	-64.55	1.51	-66.06	-13	Horizontal
3720	-64.83	1.51	-66.34	-13	Vertical
5580	-61.24	1.51	-62.75	-13	Horizontal
5580	-59.76	1.51	-61.27	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3760	-58.70	1.51	-60.21	-13	Horizontal
3760	-63.31	1.51	-64.82	-13	Vertical
5640	-59.47	1.51	-60.98	-13	Horizontal
5640	-61.22	1.51	-62.73	-13	Vertical





Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3800	-62.59	1.51	-64.10	-13	Horizontal
3800	-59.72	1.51	-61.23	-13	Vertical
5700	-61.66	1.51	-63.17	-13	Horizontal
5700	-64.16	1.51	-65.67	-13	Vertical

BAND 4:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3440	-66.92	1.5	-68.42	-13	Horizontal
3440	-63.70	1.5	-65.20	-13	Vertical
5160	-67.91	1.5	-69.41	-13	Horizontal
5160	-65.57	1.5	-67.07	-13	Vertical

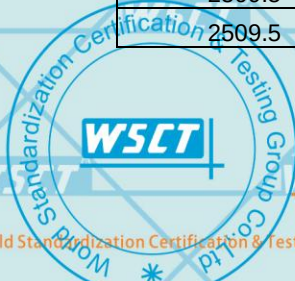
Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3465	-67.32	1.5	-68.82	-13	Horizontal
3465	-58.28	1.5	-59.78	-13	Vertical
5197.5	-67.52	1.5	-69.02	-13	Horizontal
5197.5	-63.56	1.5	-65.06	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
3490	-61.20	1.5	-62.70	-13	Horizontal
3490	-58.11	1.5	-59.61	-13	Vertical
5235	-62.18	1.5	-63.68	-13	Horizontal
5235	-62.10	1.5	-63.60	-13	Vertical

BAND 5:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1658	-62.20	0.5	-62.70	-13	Horizontal
1658	-58.96	0.5	-59.46	-13	Vertical
2487	-58.19	0.5	-58.69	-13	Horizontal
2487	-67.86	0.5	-68.36	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1673	-67.75	0.5	-68.25	-13	Horizontal
1673	-65.05	0.5	-65.55	-13	Vertical
2509.5	-58.21	0.5	-58.71	-13	Horizontal
2509.5	-61.62	0.5	-62.12	-13	Vertical





Mode 3					
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
1688	-65.45	0.5	-65.95	-13	Horizontal
1688	-59.45	0.5	-59.95	-13	Vertical
2532	-59.37	0.5	-59.87	-13	Horizontal
2532	-59.05	0.5	-59.55	-13	Vertical

BAND 7:

Mode 1					
Frequency(MHz)	Power(dBm)	ARpl(dBm)	PMea(dBm)	Limit (dBm)	Polarity
5020	-62.47	1.52	-63.99	-25	Horizontal
5020	-65.50	1.52	-67.02	-25	Vertical
7530	-65.36	1.52	-66.88	-25	Horizontal
7530	-61.21	1.52	-62.73	-25	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	ARpl(dBm)	PMea(dBm)	Limit (dBm)	Polarity
5070	-60.00	1.52	-61.52	-25	Horizontal
5070	-63.46	1.52	-64.98	-25	Vertical
7605	-67.91	1.52	-69.43	-25	Horizontal
7605	-59.12	1.52	-60.64	-25	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	ARpl(dBm)	PMea(dBm)	Limit (dBm)	Polarity
5120	-66.59	1.52	-68.11	-25	Horizontal
5120	-62.10	1.52	-63.62	-25	Vertical
7680	-65.27	1.52	-66.79	-25	Horizontal
7680	-66.18	1.52	-67.70	-25	Vertical





8. OCCUPIED BANDWIDTH & Emission Bandwidth

Test limit:

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission, shall be measured when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the user. [i2.1049(h)]

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

The relative OBW must be measured and reported when it is specified in the applicable rule part; otherwise, the 99% OBW shall be measured and reported. The test report shall specify which OBW is reported.

A spectrum/signal analyzer or other instrument providing a spectral display is recommended for these measurements and the video bandwidth shall be set to a value at least three times greater than the IF/resolution bandwidth to avoid any amplitude smoothing. Video filtering shall not be used during occupied bandwidth tests.

The OBW shall be measured for all operating conditions that will affect the bandwidth results (e.g. variable modulations, coding, or channel bandwidth settings). See section 4.

Test procedure:

Occupied bandwidth – relative measurement procedure

The reference value is the highest level of the spectral envelope of the modulated signal.

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- Set the reference level of the instrument as required to prevent the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- The dynamic range of the spectrum analyzer at the selected RBW shall be at least 10 dB below the target “-X dB down” requirement (i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference value).
- Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- Determine the “-X dB down amplitude” as equal to (Reference Value – X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.
- Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB



down amplitude” determined in step g). If a marker is below this “-X dB down amplitude value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

j) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Occupied bandwidth – power bandwidth (99%) measurement procedure

The following procedure shall be used for measuring (99 %) power bandwidth

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.

d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.

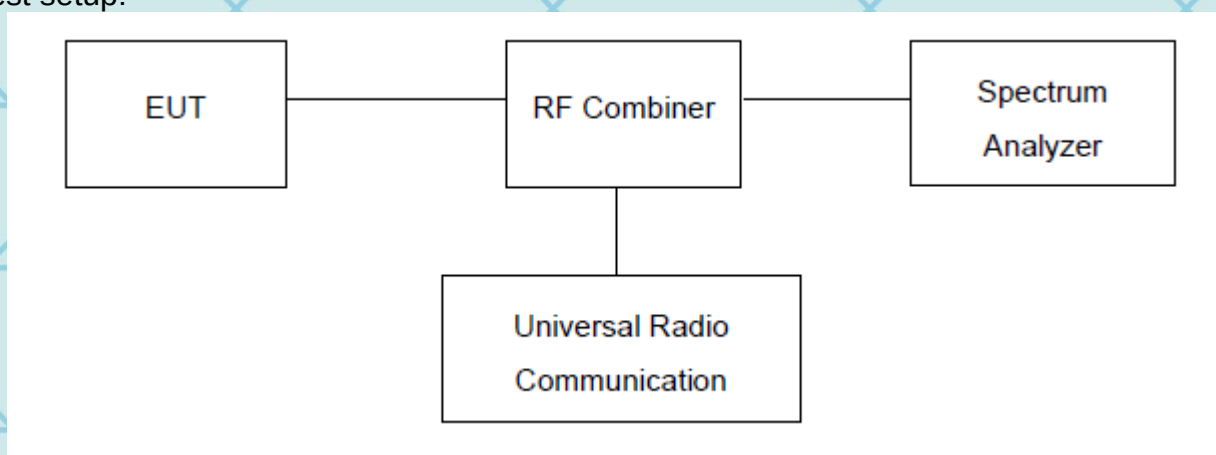
e) Set the detection mode to peak, and the trace mode to max hold..

f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

g) If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test setup:





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Measurement Result

GSM850:

Frequency	OBW(99%)	26dB BW
824.2	246.795KHz	314.103KHz
836.6	245.192KHz	317.308KHz
848.8	246.795KHz	312.500KHz

PCS1900:

Frequency	OBW(99%)	26dB BW
1850.2	246.795KHz	312.500KHz
1880	248.397KHz	317.308KHz
1909.8	243.590KHz	315.705KHz

GPRS850:

Frequency	OBW(99%)	26dB BW
824.2	243.590KHz	318.910KHz
836.6	243.590KHz	315.705KHz
848.8	245.192KHz	315.705KHz

GPRS 1900:

Frequency	OBW(99%)	26dB BW
1850.2	246.795KHz	314.103KHz
1880	245.192KHz	310.897KHz
1909.8	243.590KHz	314.103KHz





EGPRS 850:

Frequency	OBW(99%)	26dB BW
824.2	241.987KHz	314.103KHz
836.6	241.987KHz	306.090KHz
848.8	243.590KHz	314.103KHz

EGPRS 1900:

Frequency	OBW(99%)	26dB BW
1850.2	240.385KHz	298.077KHz
1880	245.192KHz	306.090KHz
1909.8	243.590KHz	310.897KHz





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UTRA BANDS BAND 2:

Frequency	OBW(99%)	26dB BW
1852.4	4.135MHz	4.712MHz
1880	4.151MHz	4.712MHz
1907.6	4.151MHz	4.760MHz

BAND 4:

Frequency	OBW(99%)	26dB BW
1712.4	4.151MHz	4.710MHz
1732.6	4.135MHz	4.696MHz
1752.6	4.167MHz	4.744MHz

BAND 5:

Frequency	OBW(99%)	26dB BW
826.4	4.167MHz	4.744MHz
836.4	4.167MHz	4.744MHz
846.6	4.135MHz	4.712MHz

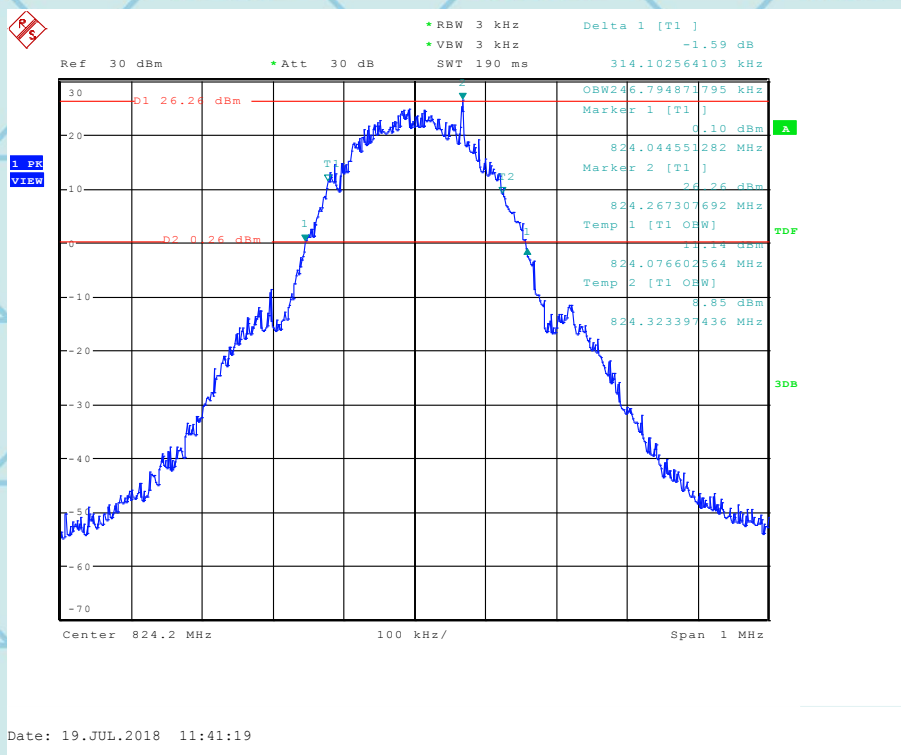




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Test Plot(s)

Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 128



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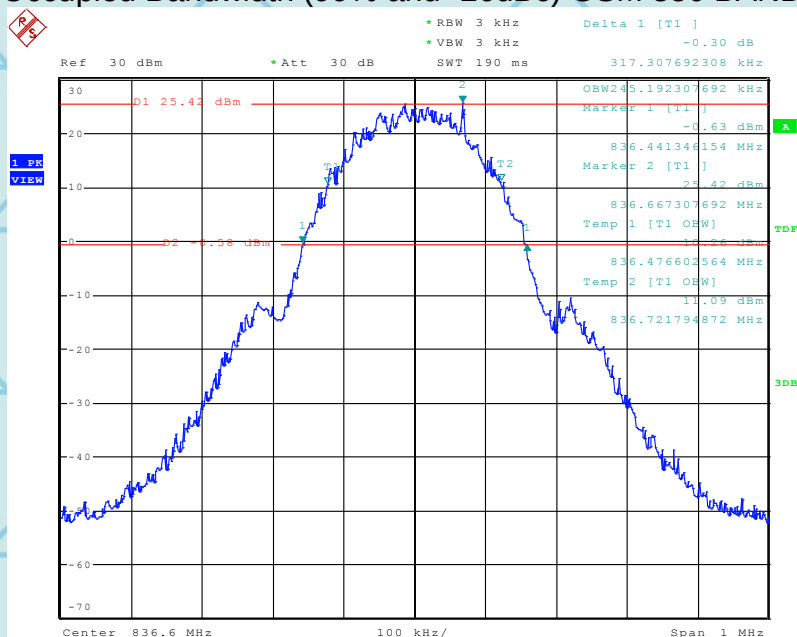
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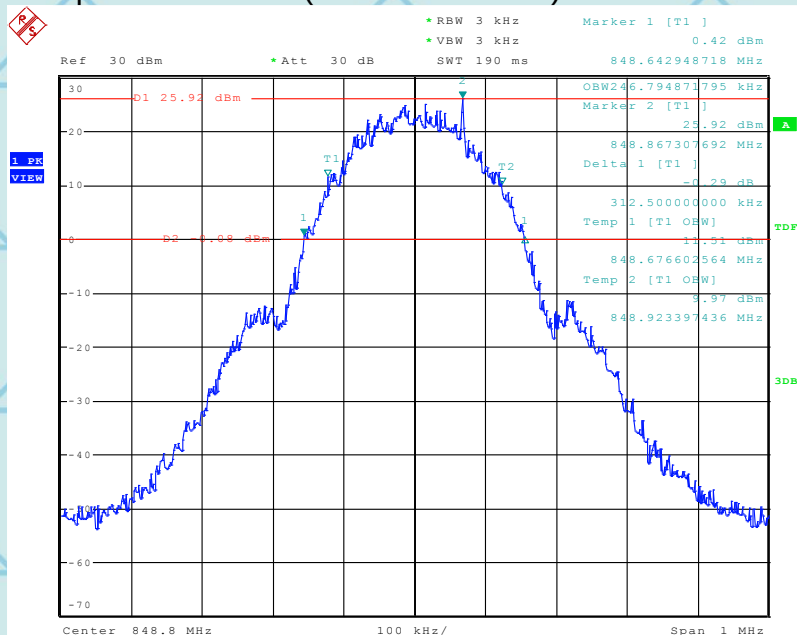
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Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 190



Date: 19.JUL.2018 11:46:51

Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 251



Date: 19.JUL.2018 11:49:24



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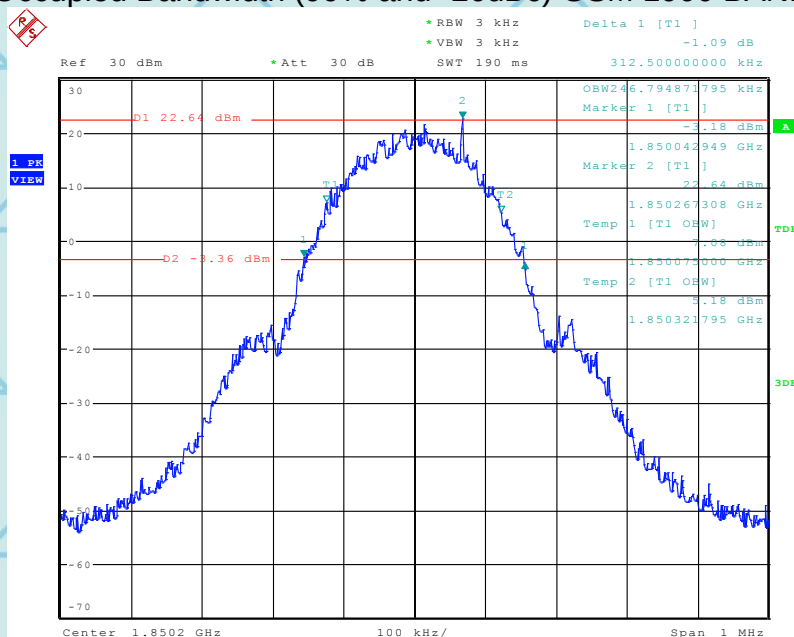
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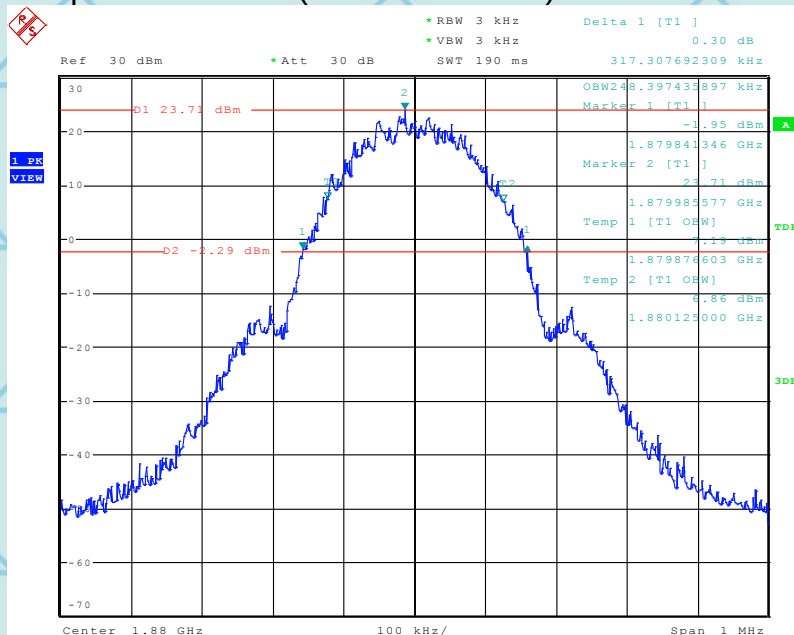
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Occupied Bandwidth (99% and -26dBc) GSM 1900 BAND CH 512



Date: 19.JUL.2018 11:52:33

Occupied Bandwidth (99% and -26dBc) PCS 1900 BAND CH 661



Date: 23.JUL.2018 18:12:40



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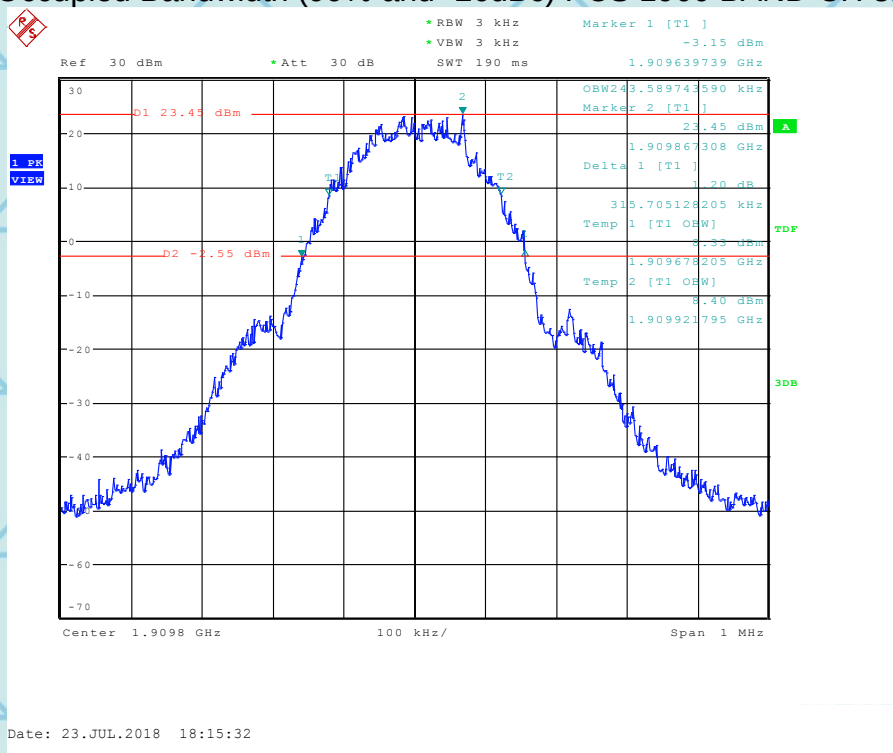
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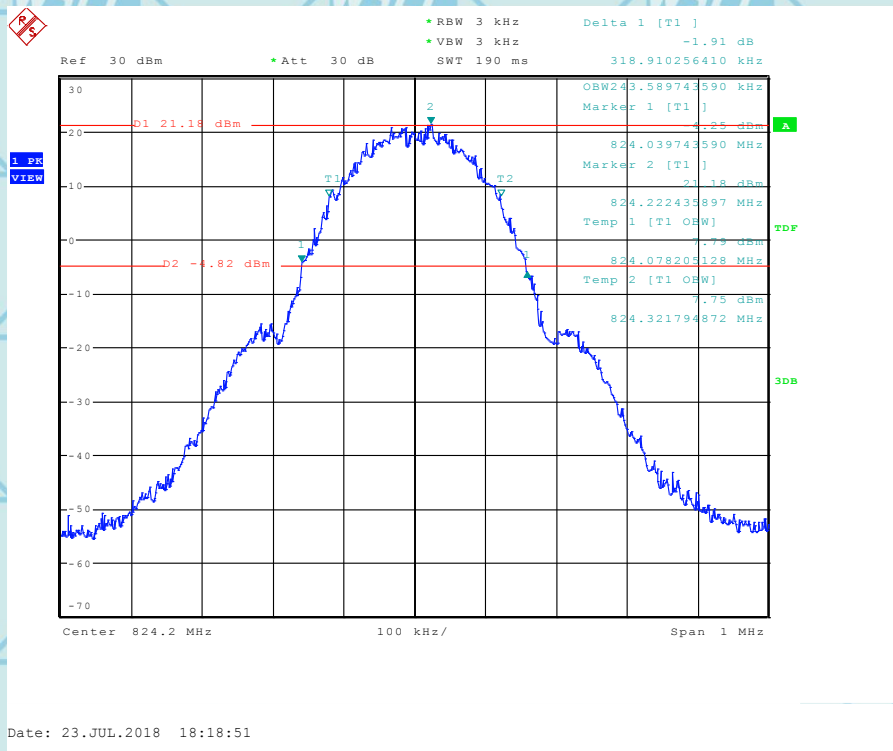


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Occupied Bandwidth (99% and -26dBc) PCS 1900 BAND CH 810



Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 128



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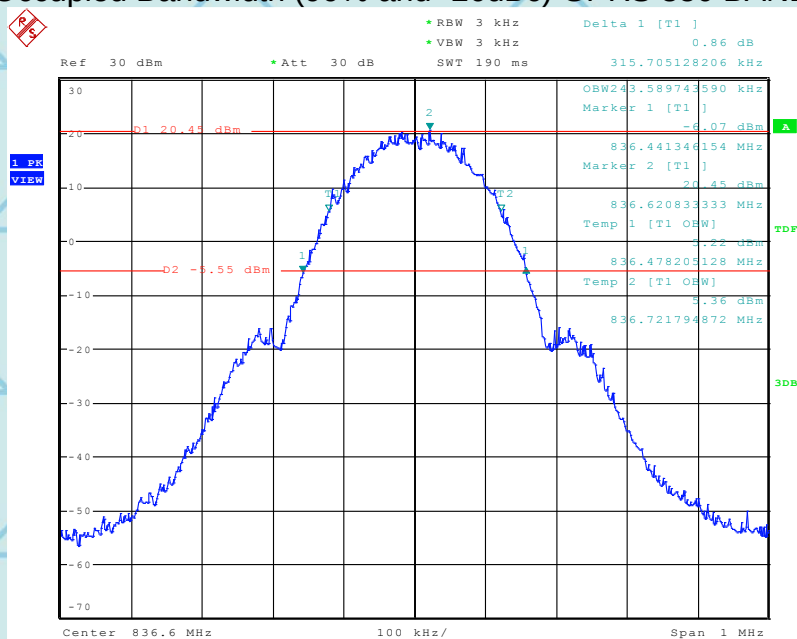
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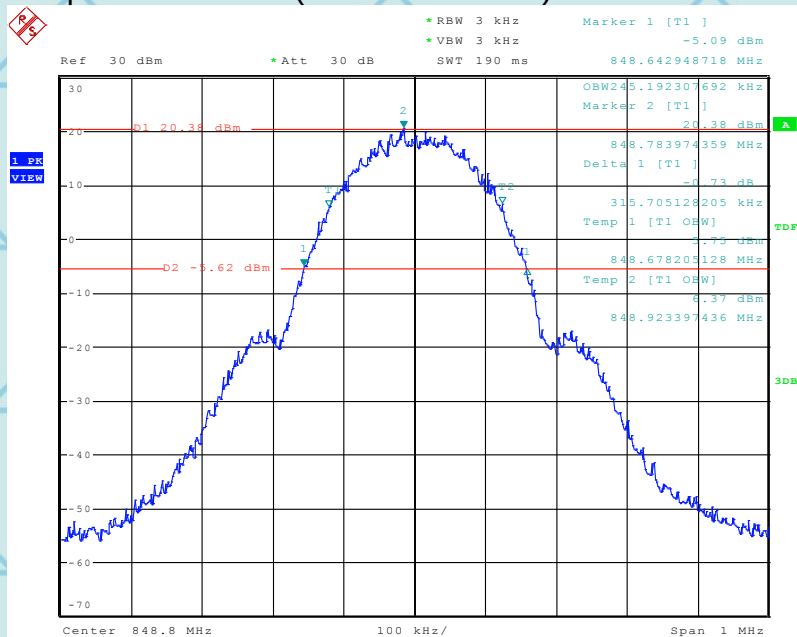


Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 190



Date: 19.JUL.2018 12:05:51

Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 251



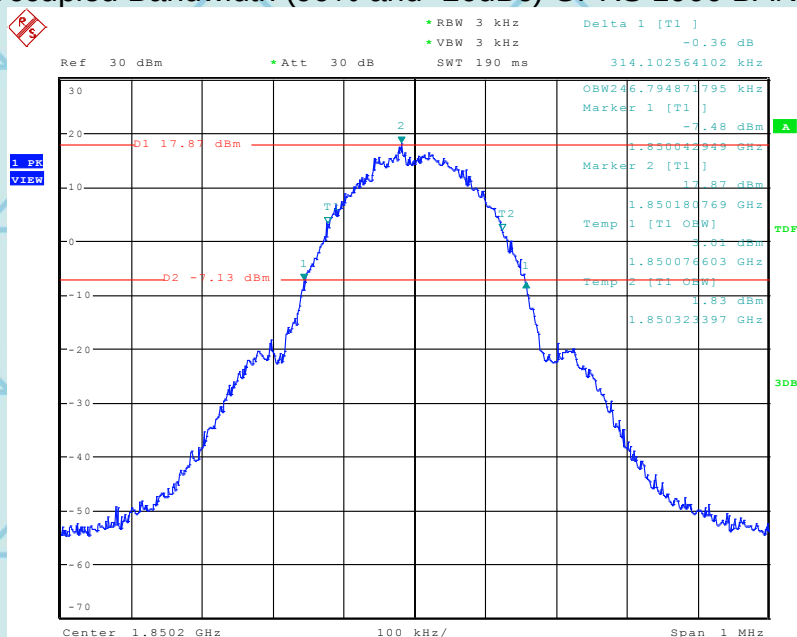
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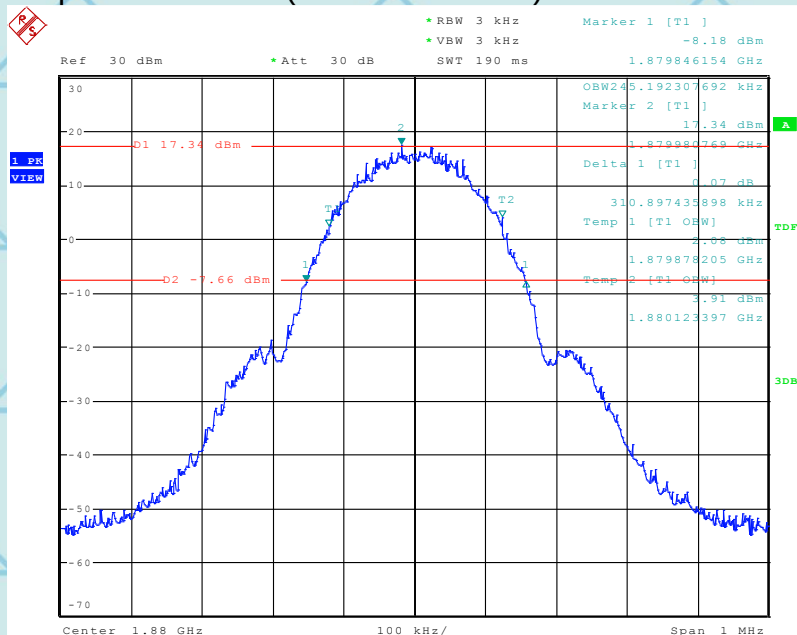
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Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 512



Date: 19.JUL.2018 12:14:19

Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 661



Date: 19.JUL.2018 12:17:37



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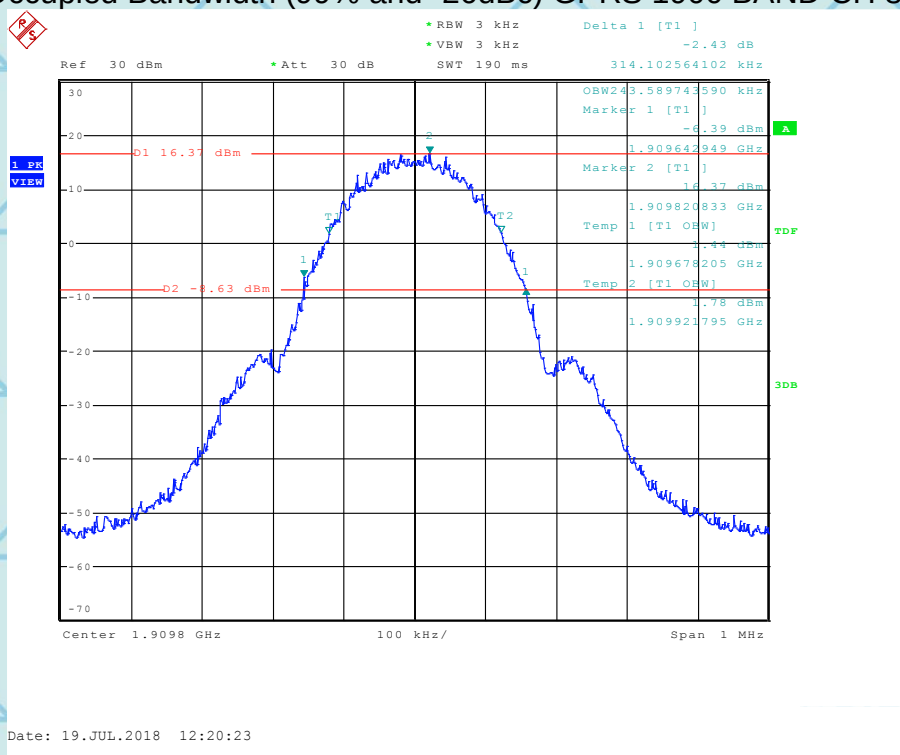
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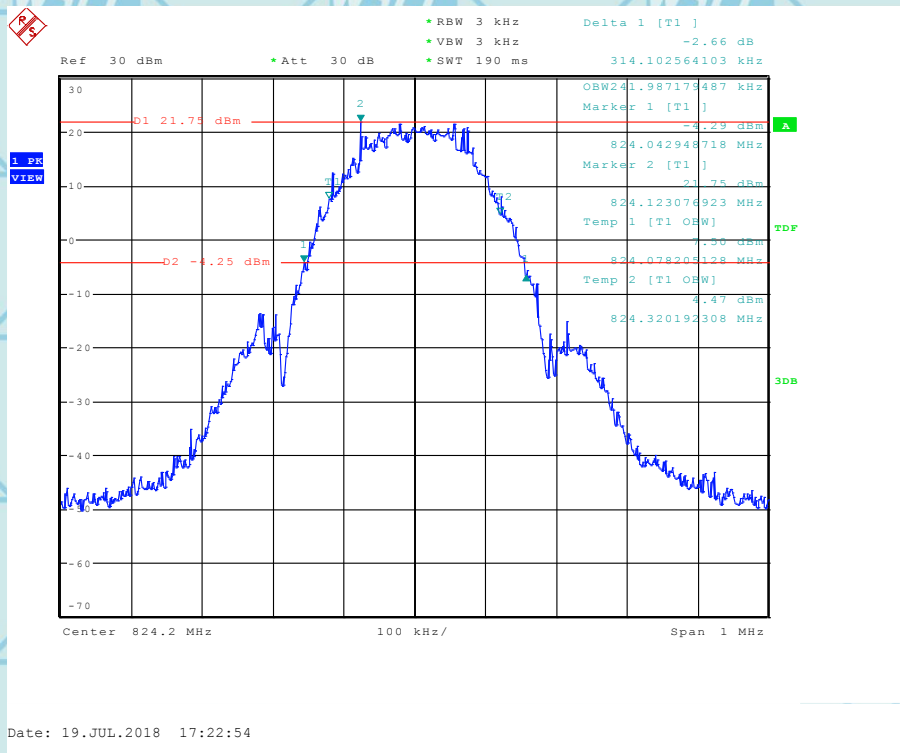
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Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 810



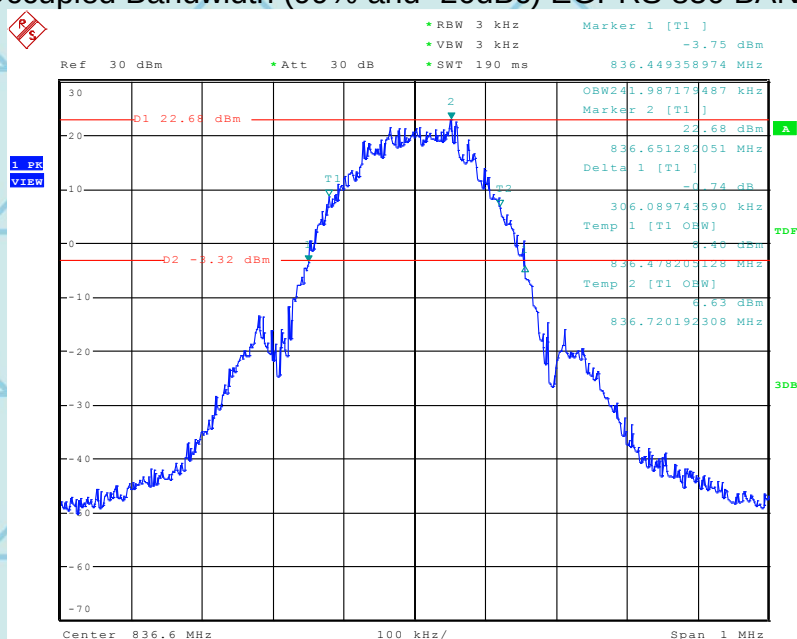
Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 128





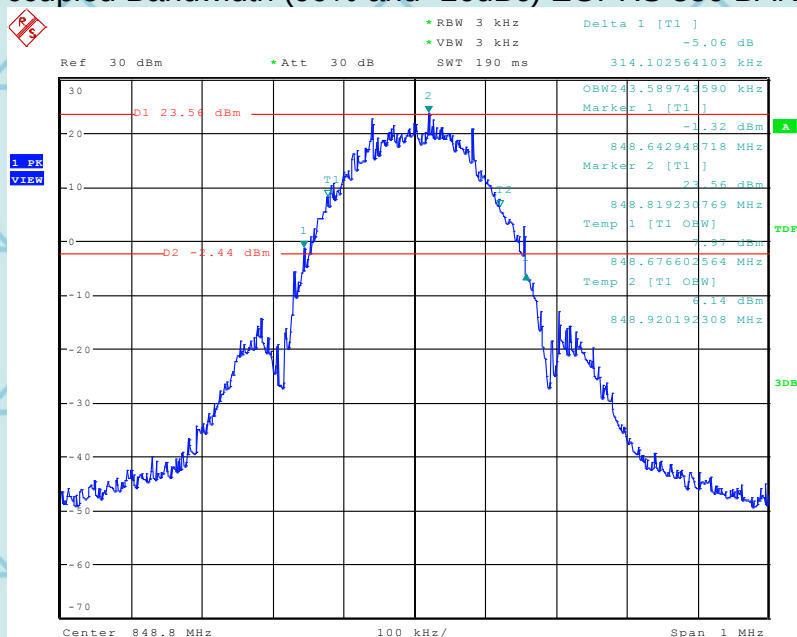
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Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 190



Date: 19.JUL.2018 17:26:47

Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 251



Date: 19.JUL.2018 17:39:49



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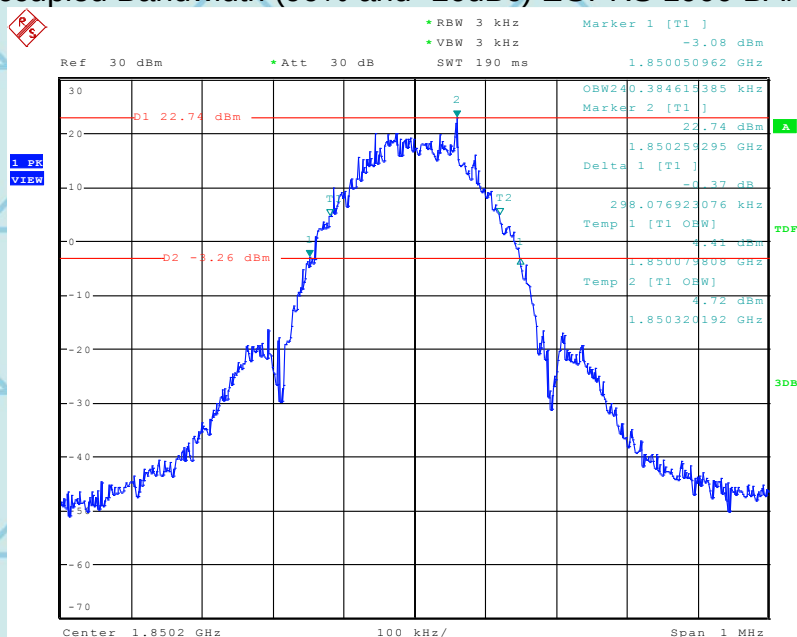
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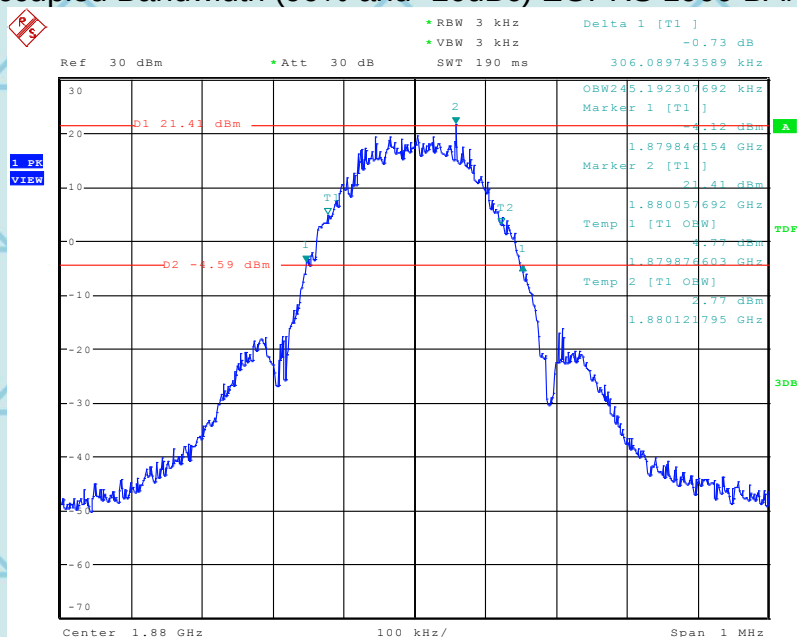
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Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 512



Date: 19.JUL.2018 17:44:09

Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 661



Date: 19.JUL.2018 17:47:44



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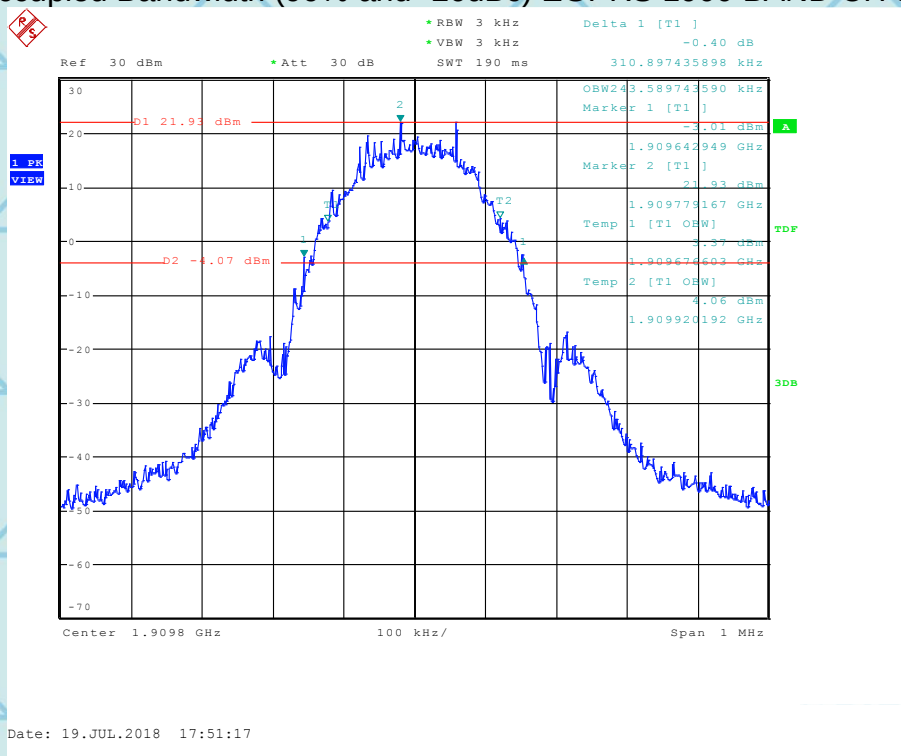
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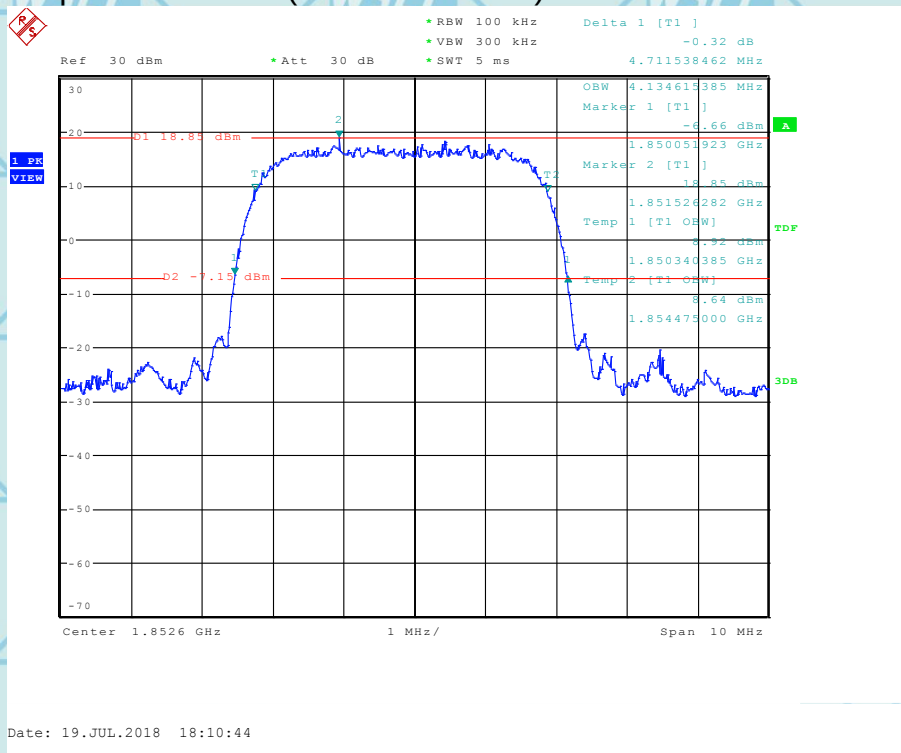
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Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 810



UTRA BANDS

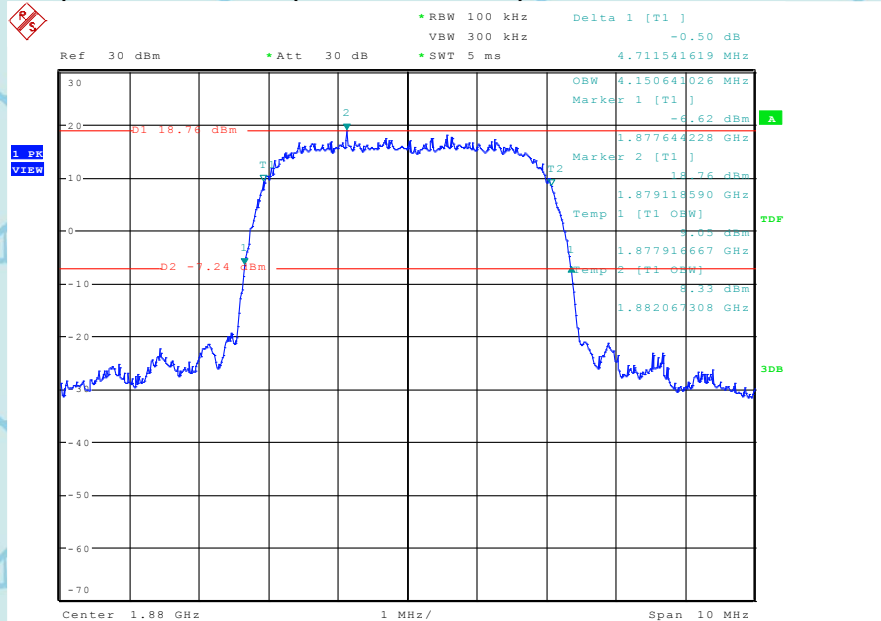
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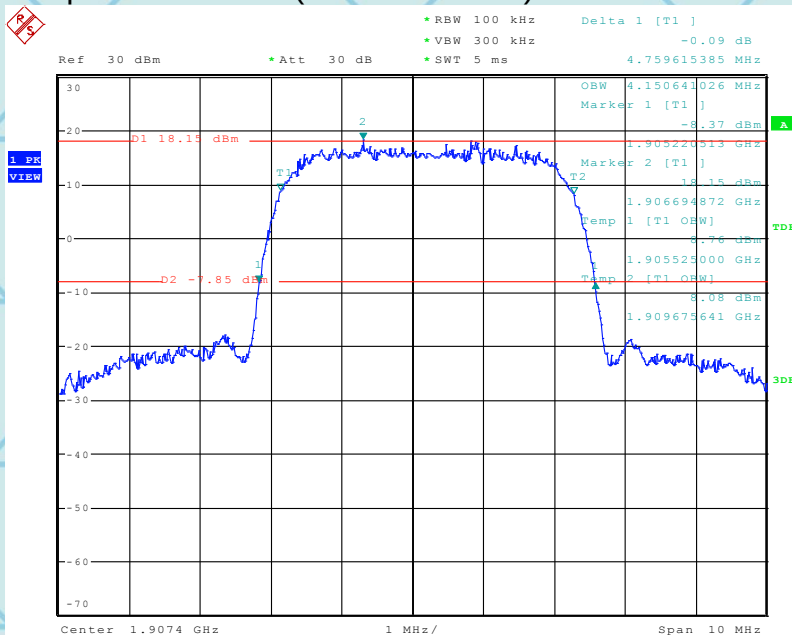
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Occupied Bandwidth (99%and-26dBc) WCDMA BAND II CH 9400



Date: 20.JUL.2018 10:12:30

Occupied Bandwidth (99%and-26dBc) WCDMA BAND II CH 9538



Date: 19.JUL.2018 18:14:58



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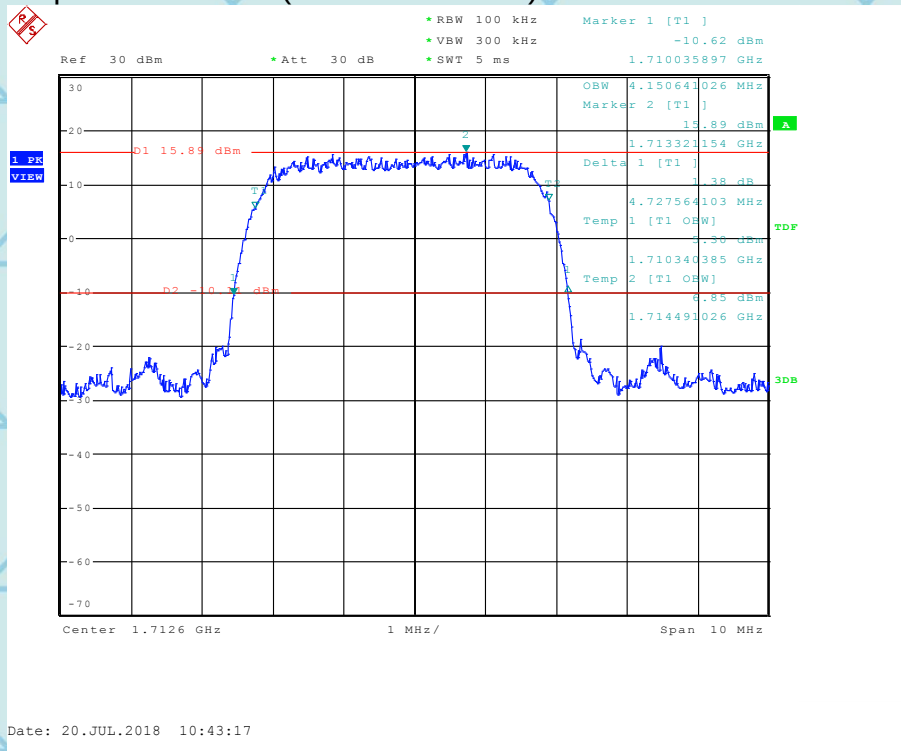
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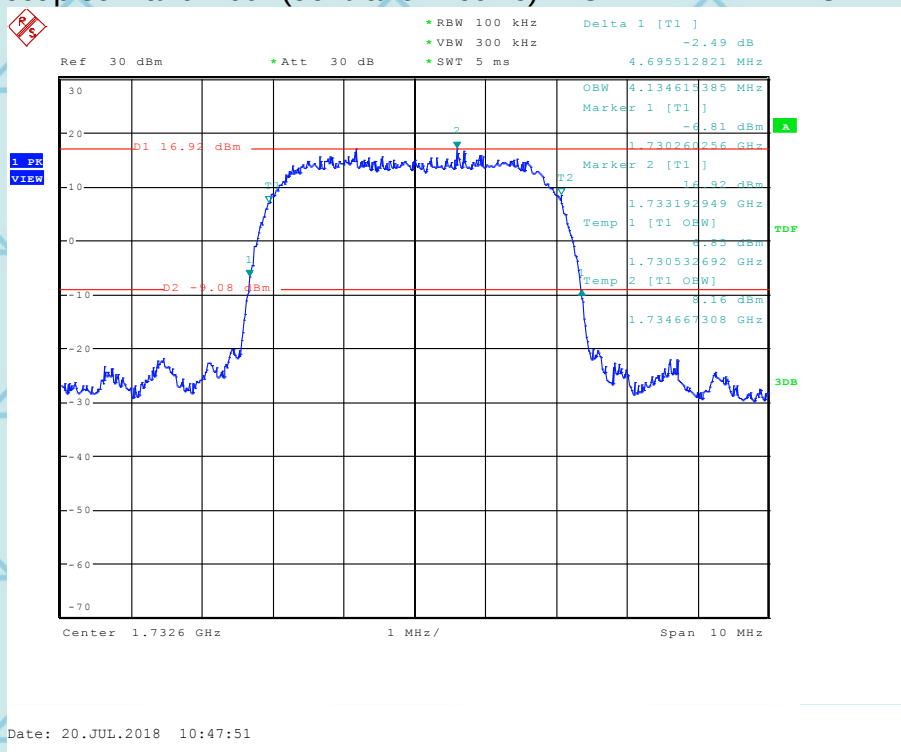


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Occupied Bandwidth (99% and -26dBc) WCDMA BAND IV CH 1312

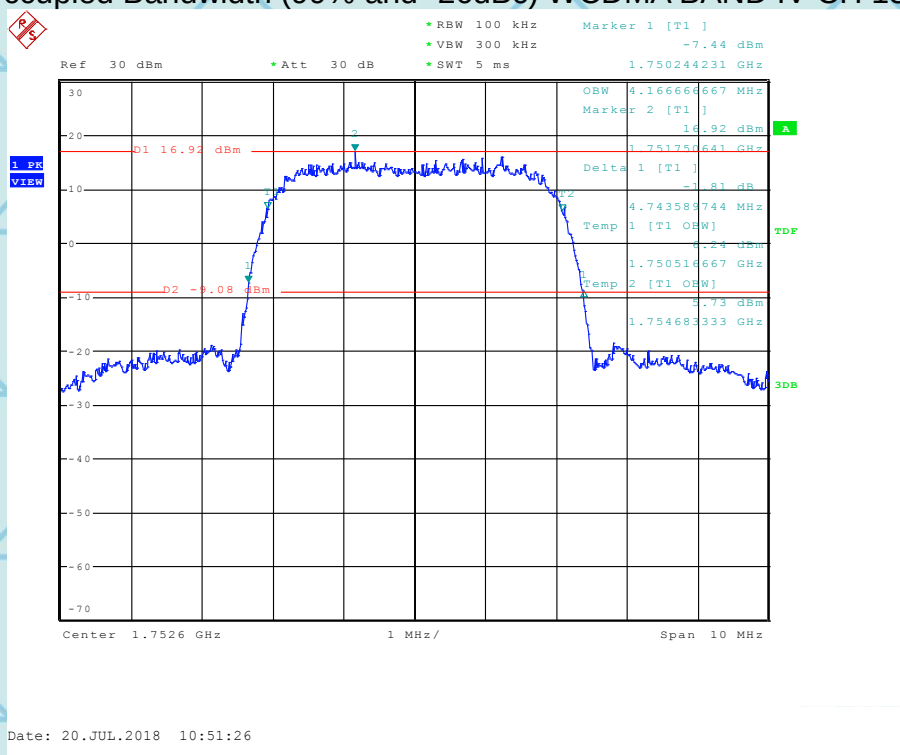


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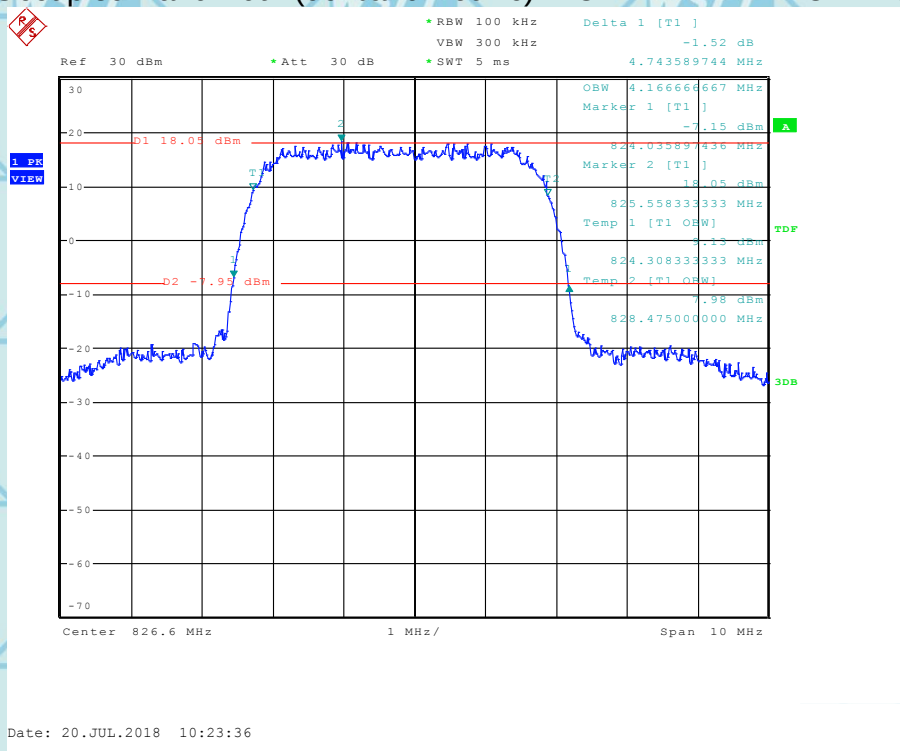




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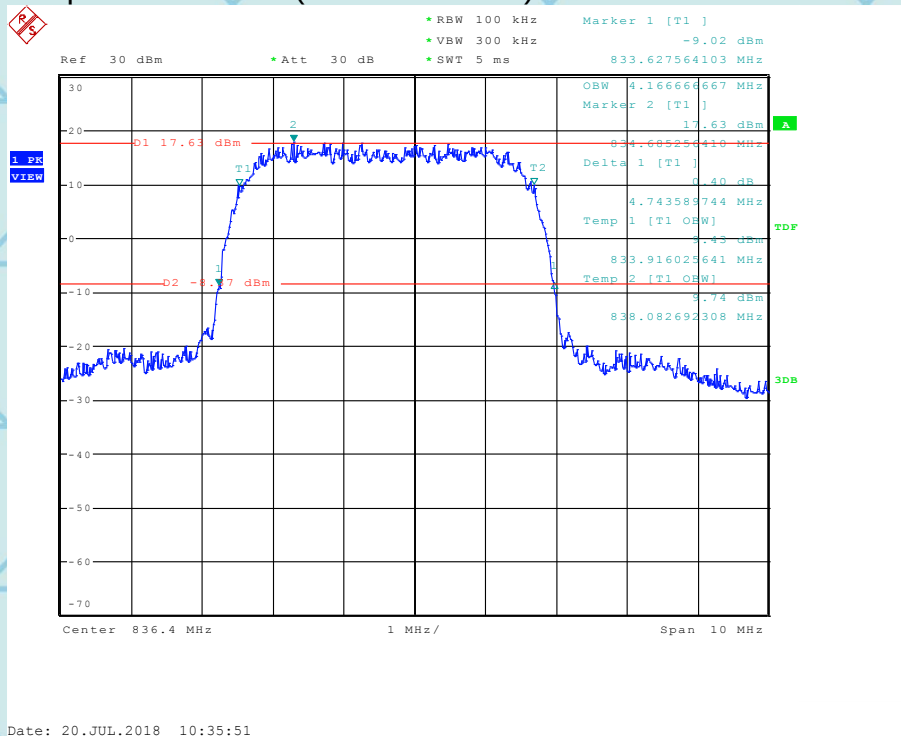
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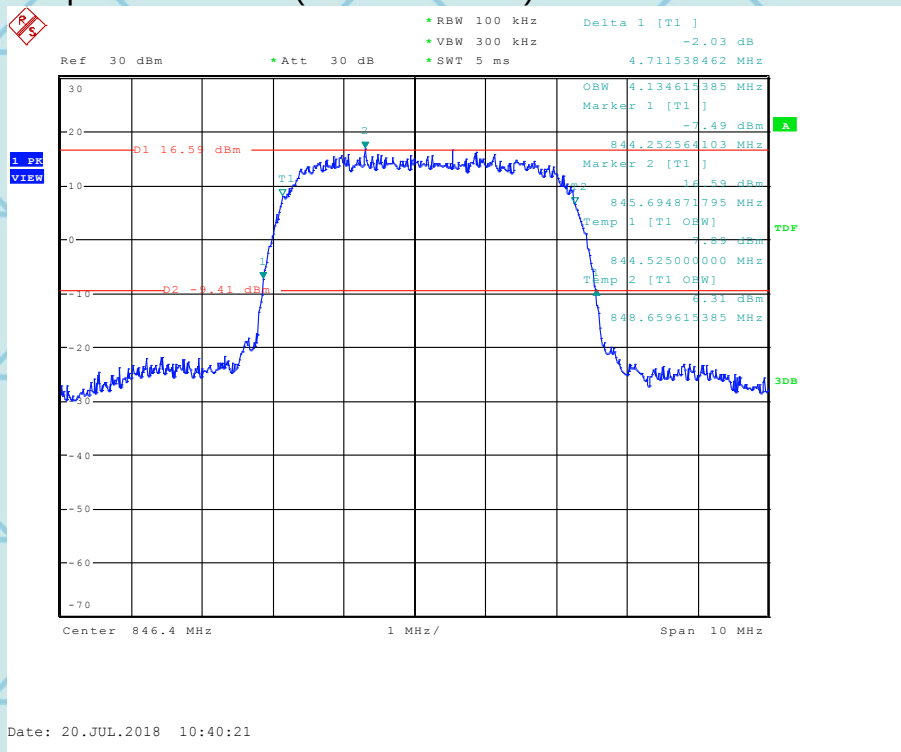


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Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4182



Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4233



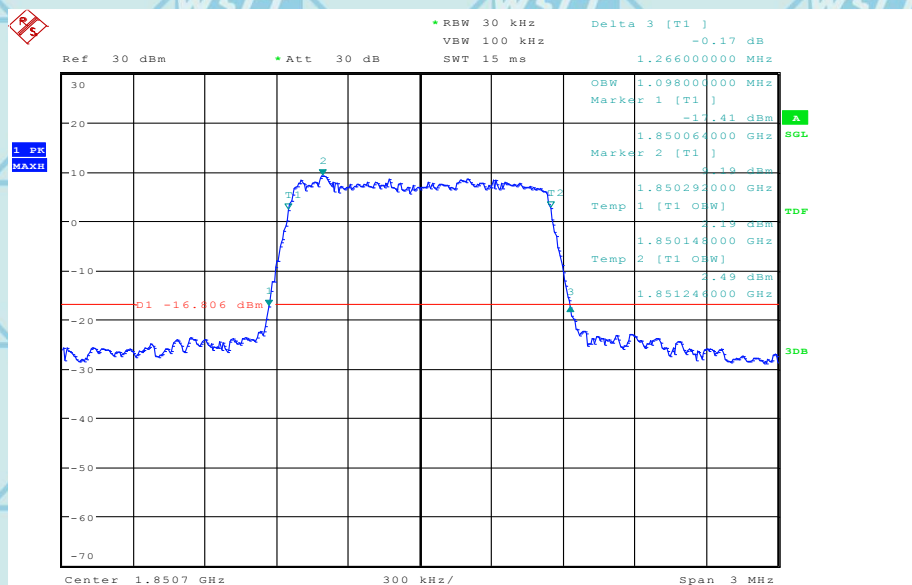


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E-UTRA BANDS

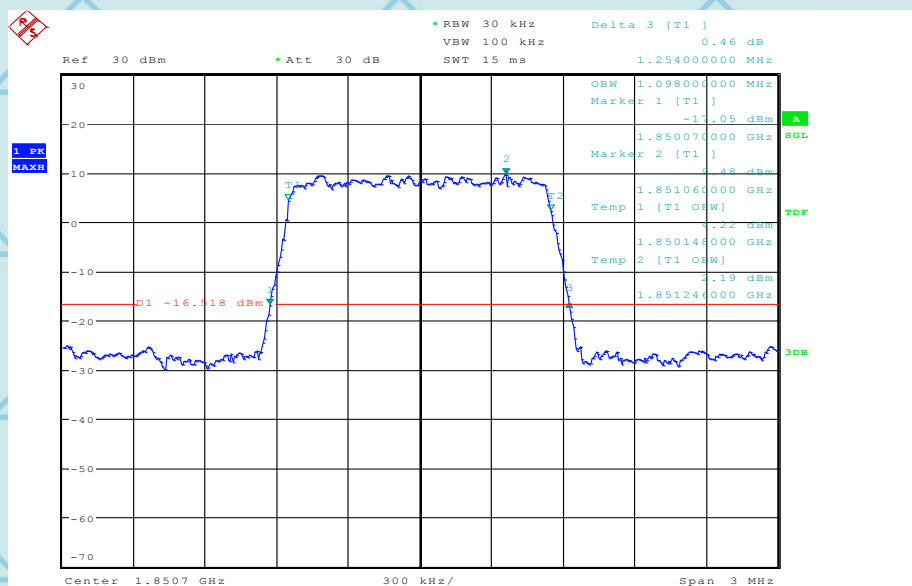
BAND 2@Bandwidth

BW1.4MHz-1850.7MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.266MHz



Date: 17.JUL.2018 16:26:07

BW1.4MHz-1850.7MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.254MHz



Date: 17.JUL.2018 16:25:39



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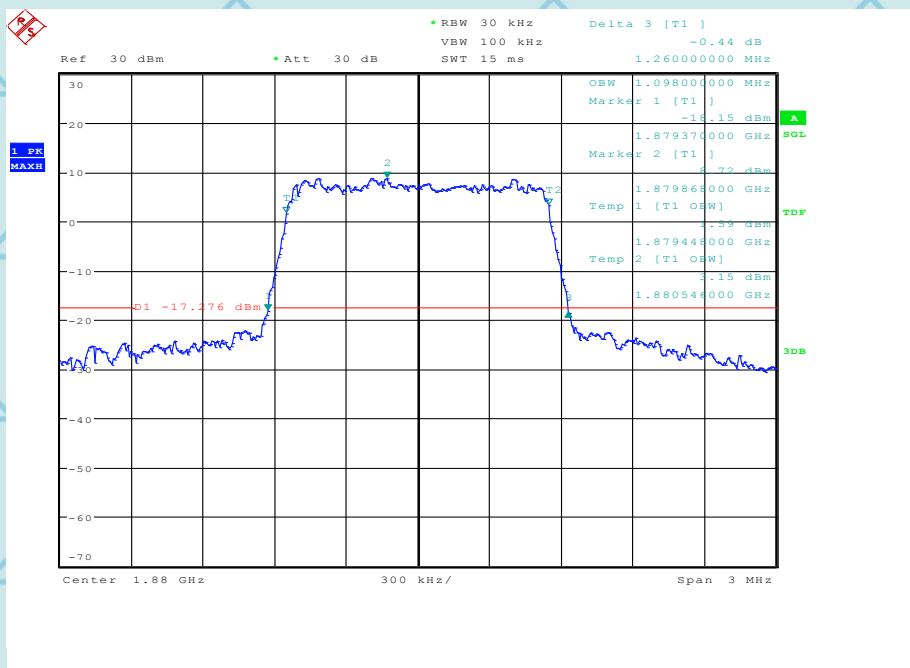
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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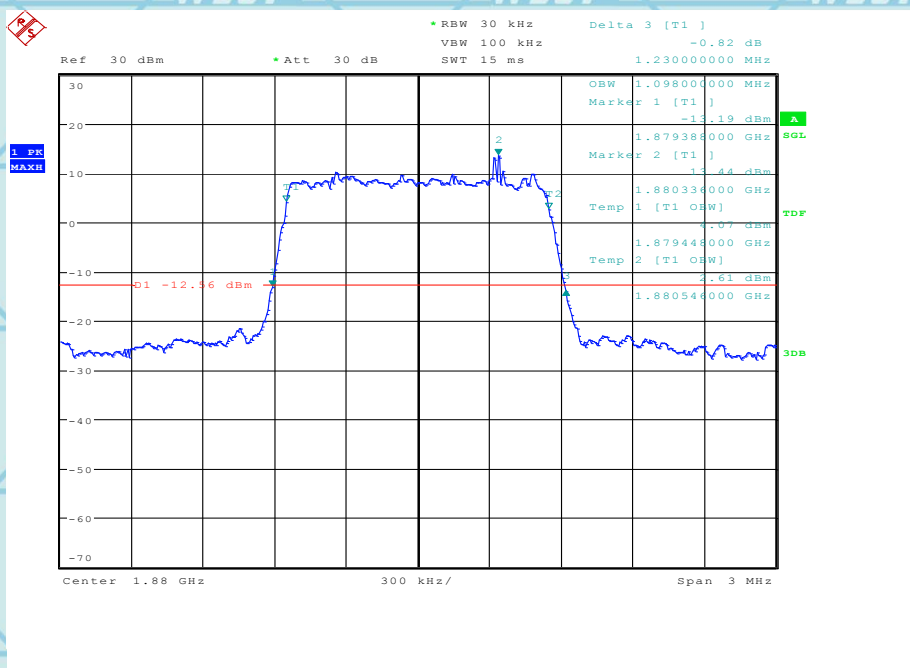
For Question,
Please Contact with WSCT
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BW1.4MHz-1880MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



Date: 17.JUL.2018 16:28:23

BW1.4MHz-1880MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.23MHz



Date: 17.JUL.2018 16:27:54



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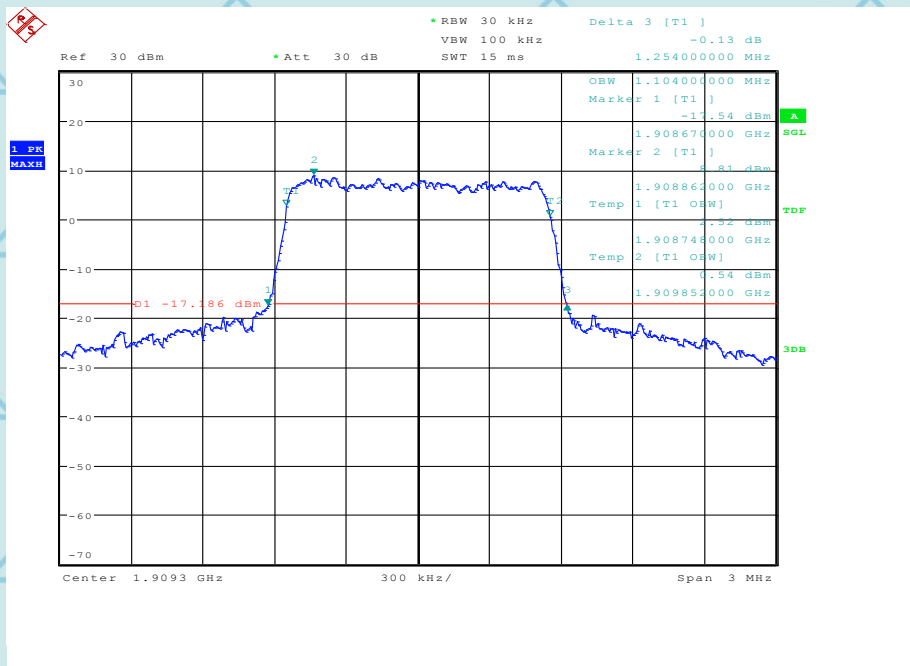
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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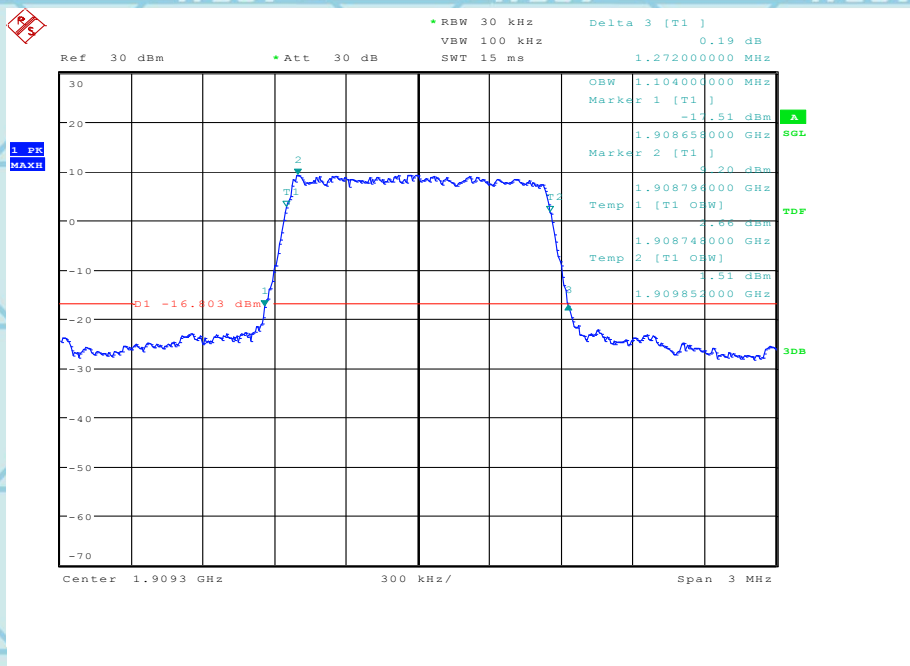
For Question,
Please Contact with WSCT
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BW1.4MHz-1909.3MHz,Q16-6RB_LOW@OBW_1.104MHz@26dB_1.254MHz



Date: 17.JUL.2018 16:27:24

BW1.4MHz-1909.3MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.272MHz



Date: 17.JUL.2018 16:26:46



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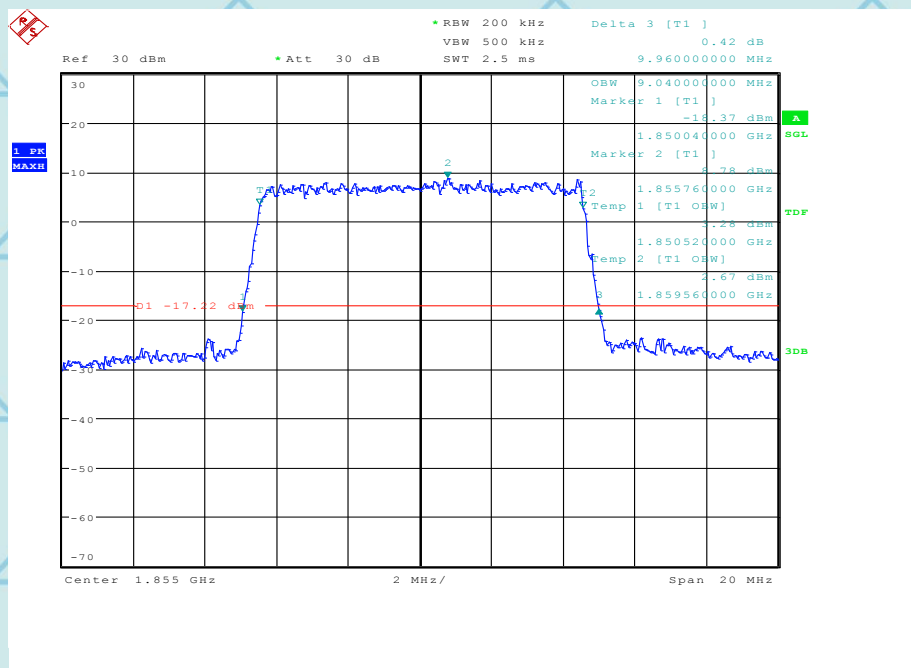
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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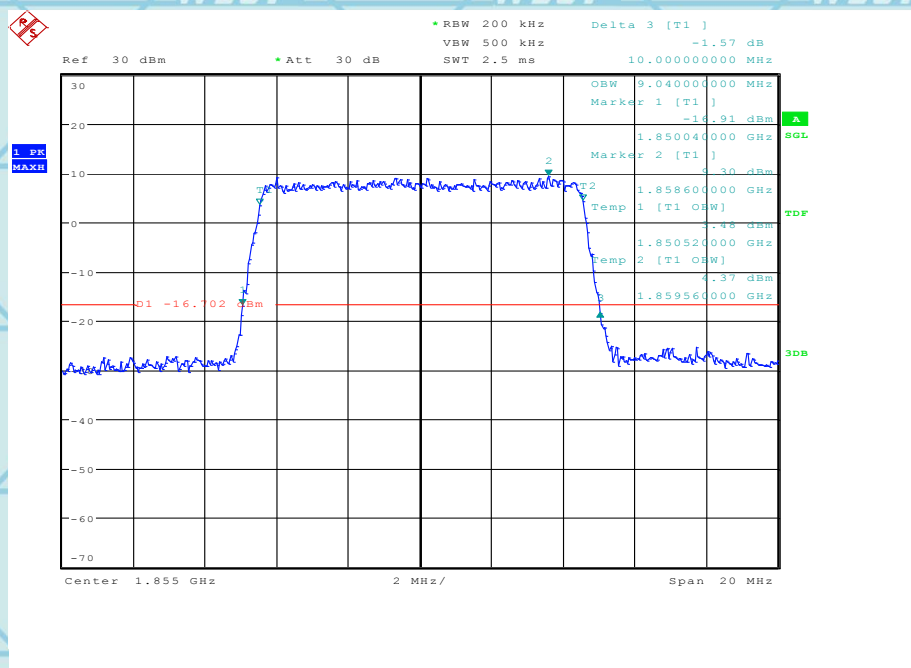
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Please Contact with WSCT
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BW10MHz-1855MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



Date: 17.JUL.2018 16:34:35

BW10MHz-1855MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_10.MHz



Date: 17.JUL.2018 16:34:14



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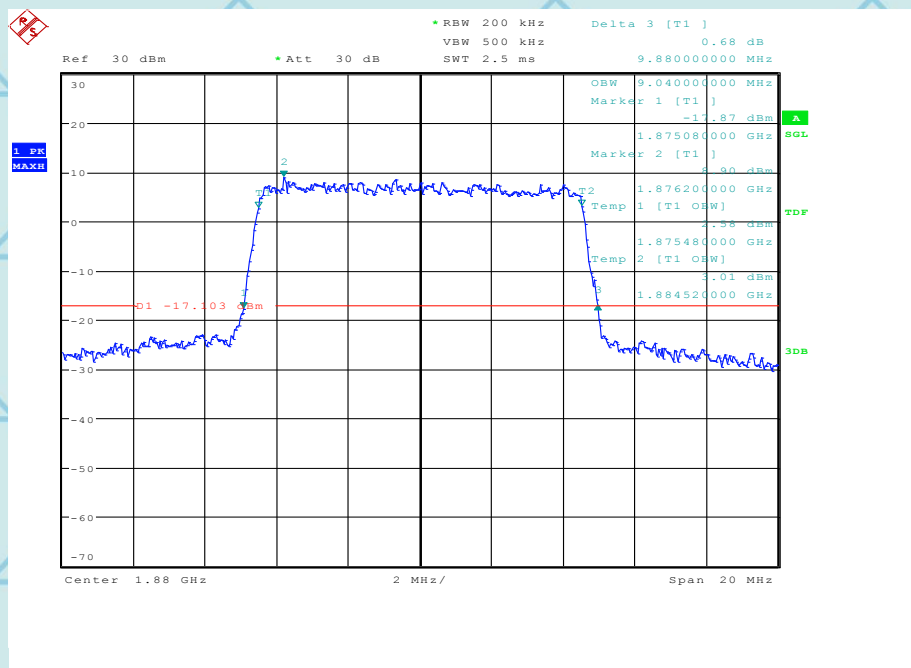
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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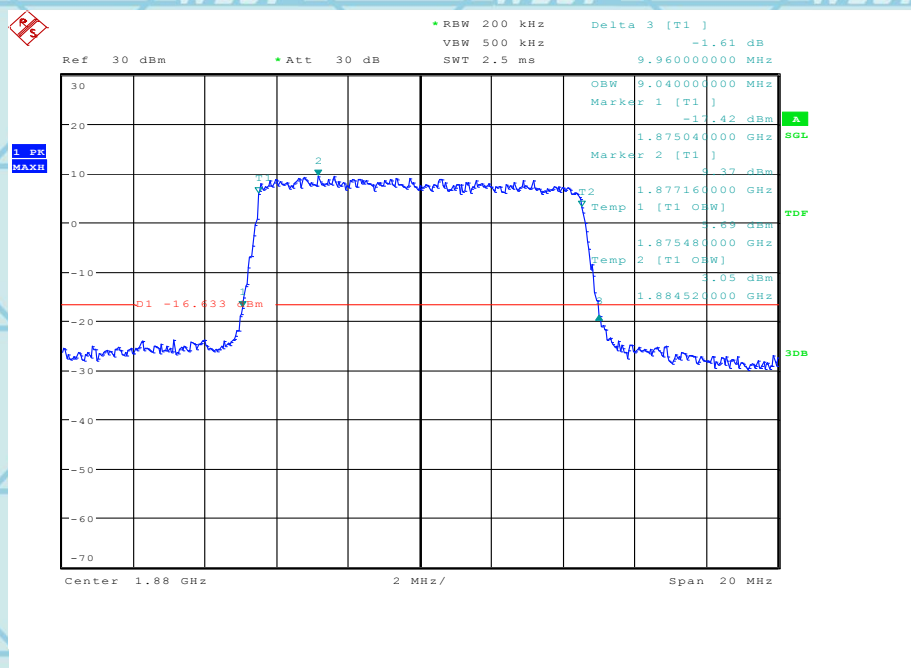
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BW10MHz-1880MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.88MHz



Date: 17.JUL.2018 16:36:00

BW10MHz-1880MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



Date: 17.JUL.2018 16:35:39



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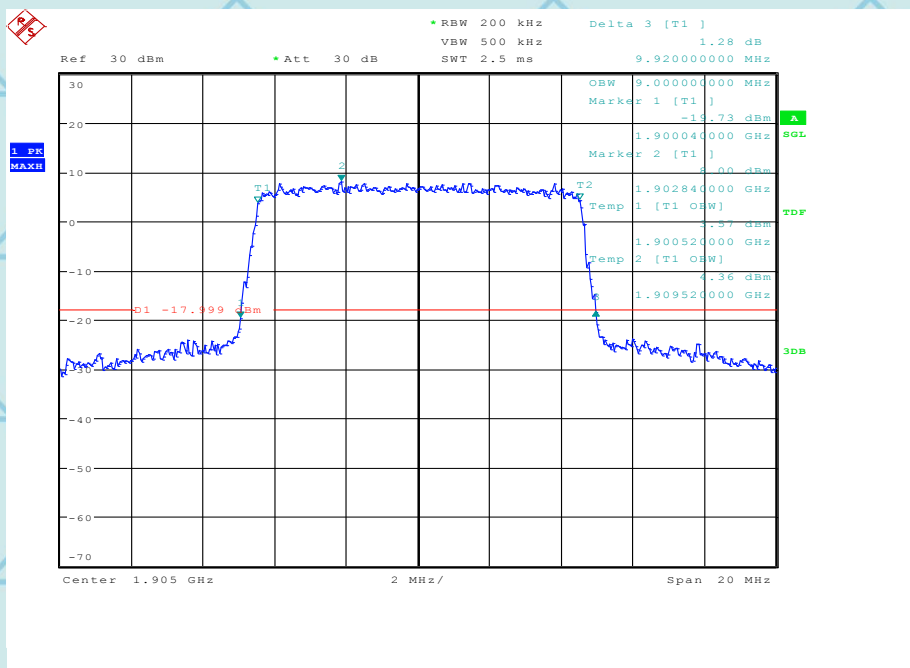
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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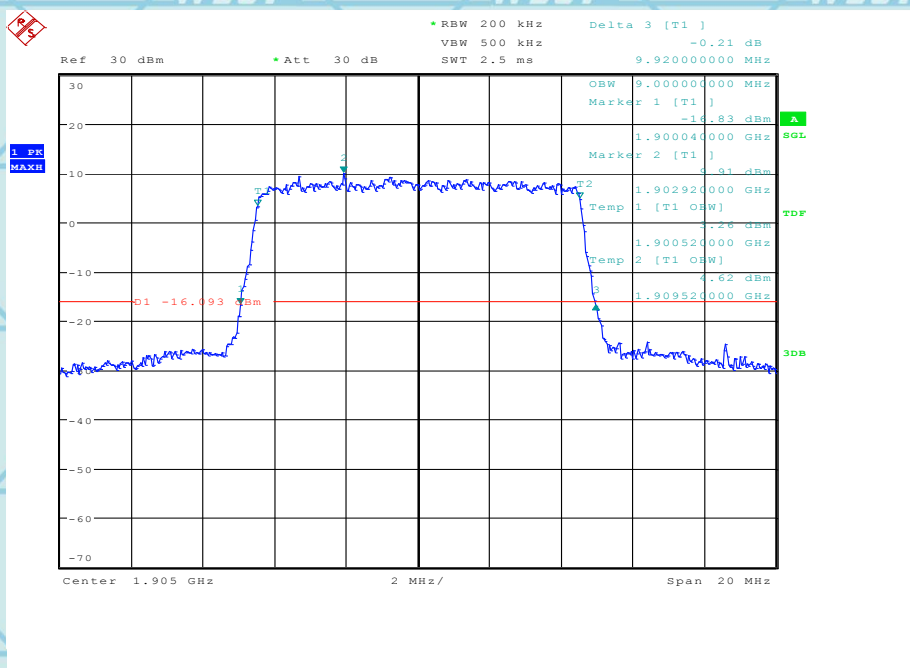
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BW10MHz-1905MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



Date: 17.JUL.2018 16:35:18

BW10MHz-1905MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



Date: 17.JUL.2018 16:34:57



世标检测认证股份
World Standardization Certification & Testing Group Co., Ltd.

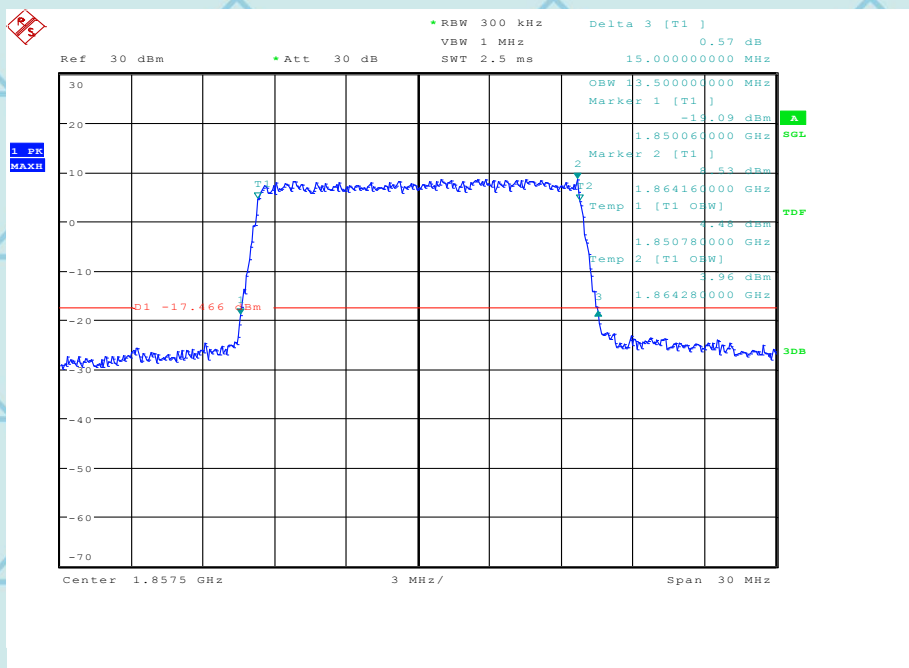
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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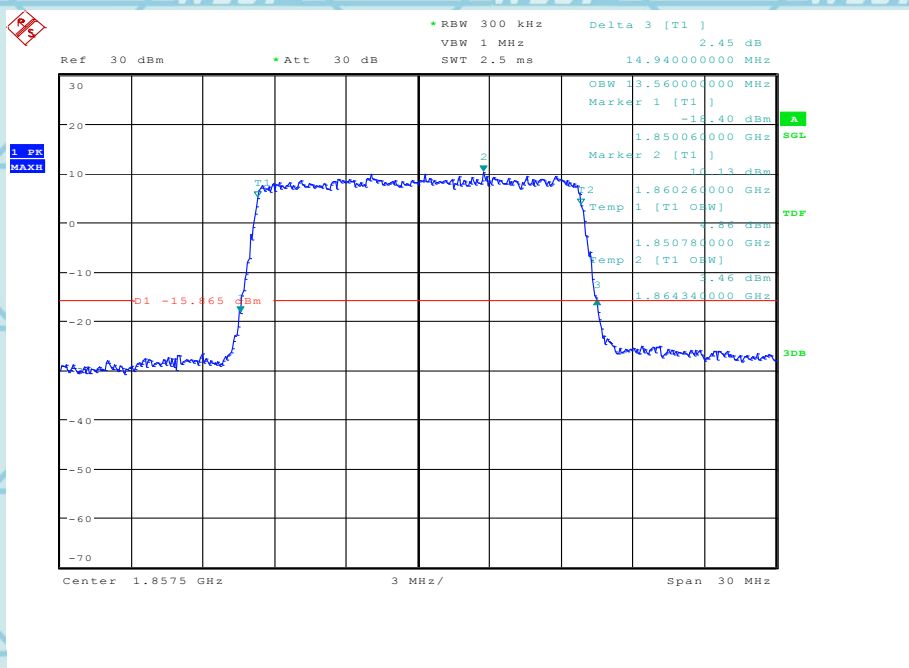
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BW15MHz-1857.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_15.MHz



Date: 17.JUL.2018 16:36:49

BW15MHz-1857.5MHz,QPSK-75RB_LOW@OBW_13.56MHz@26dB_14.94MHz



Date: 17.JUL.2018 16:36:26



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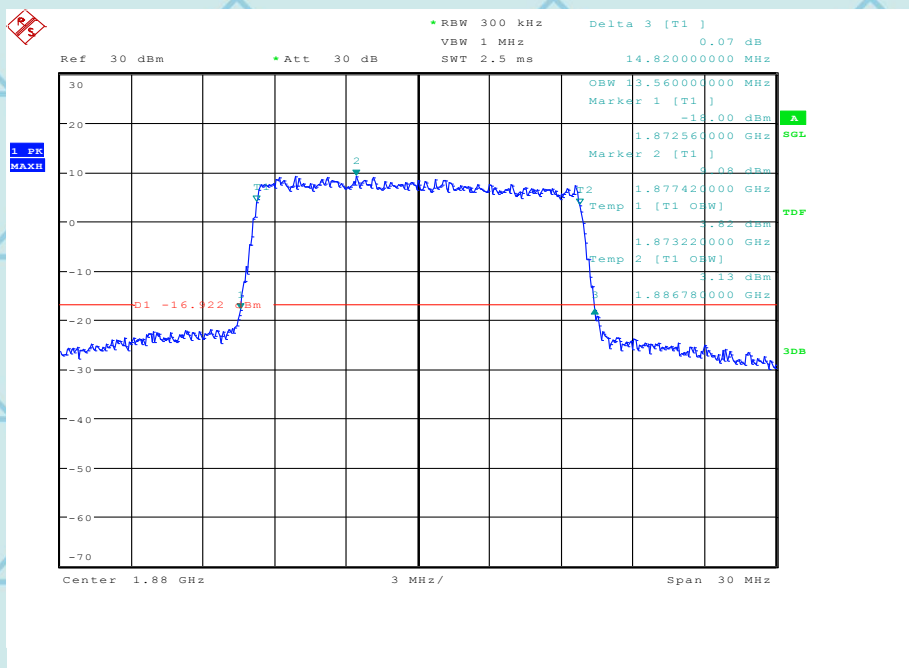
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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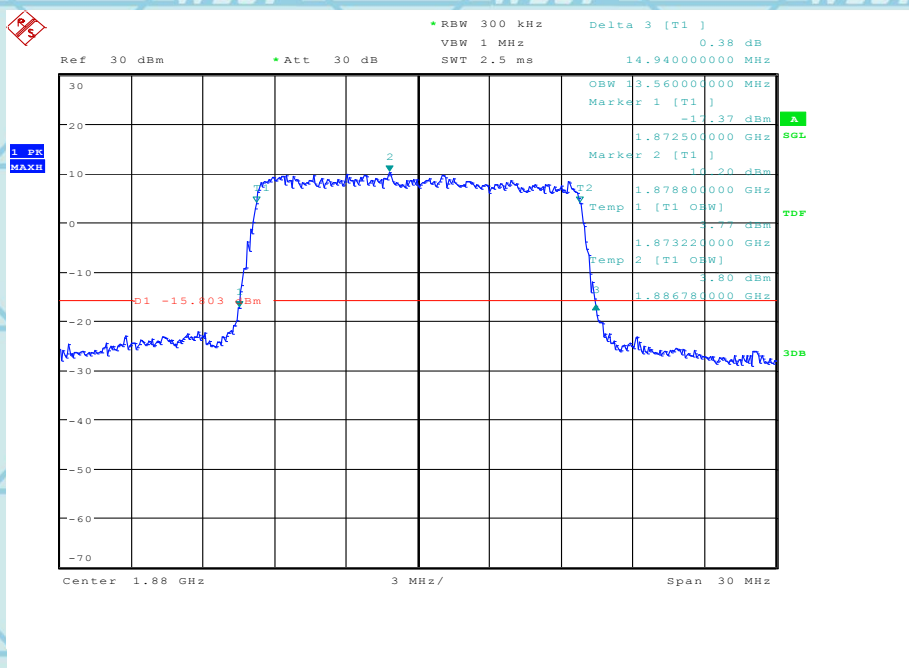
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BW15MHz-1880MHz,Q16-75RB_LOW@OBW_13.56MHz@26dB_14.82MHz



Date: 17.JUL.2018 16:38:23

BW15MHz-1880MHz,QPSK-75RB_LOW@OBW_13.56MHz@26dB_14.94MHz



Date: 17.JUL.2018 16:38:00



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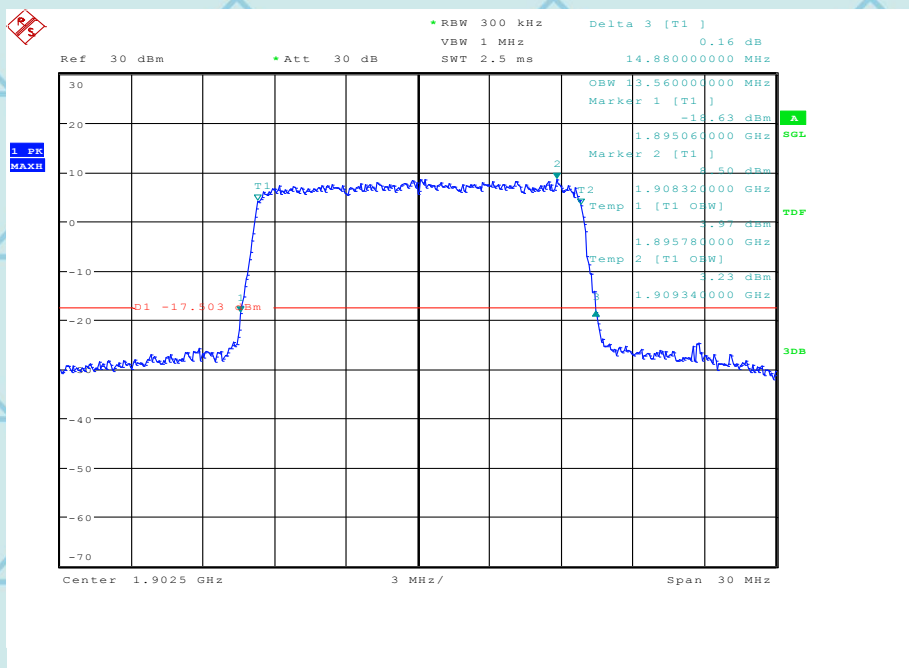
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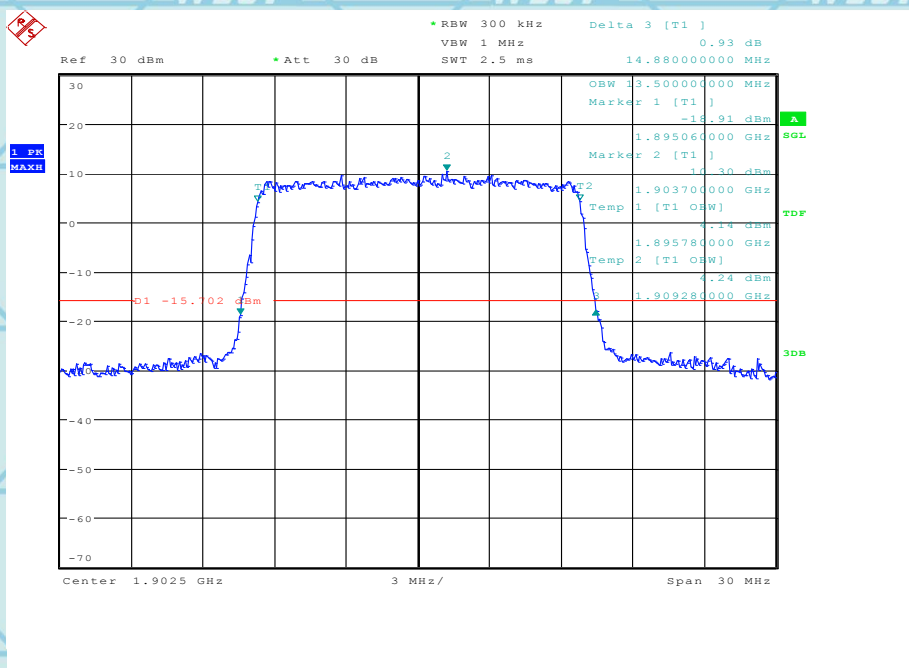
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BW15MHz-1902.5MHz,Q16-75RB_LOW@OBW_13.56MHz@26dB_14.88MHz



Date: 17.JUL.2018 16:37:36

BW15MHz-1902.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



Date: 17.JUL.2018 16:37:13



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World Standardization Certification & Testing Group Co., Ltd.

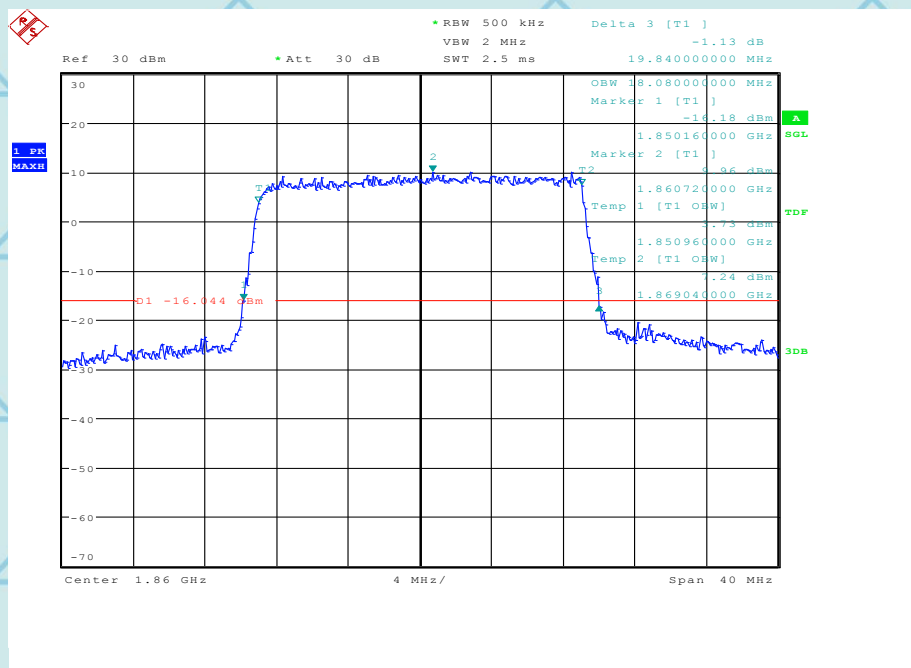
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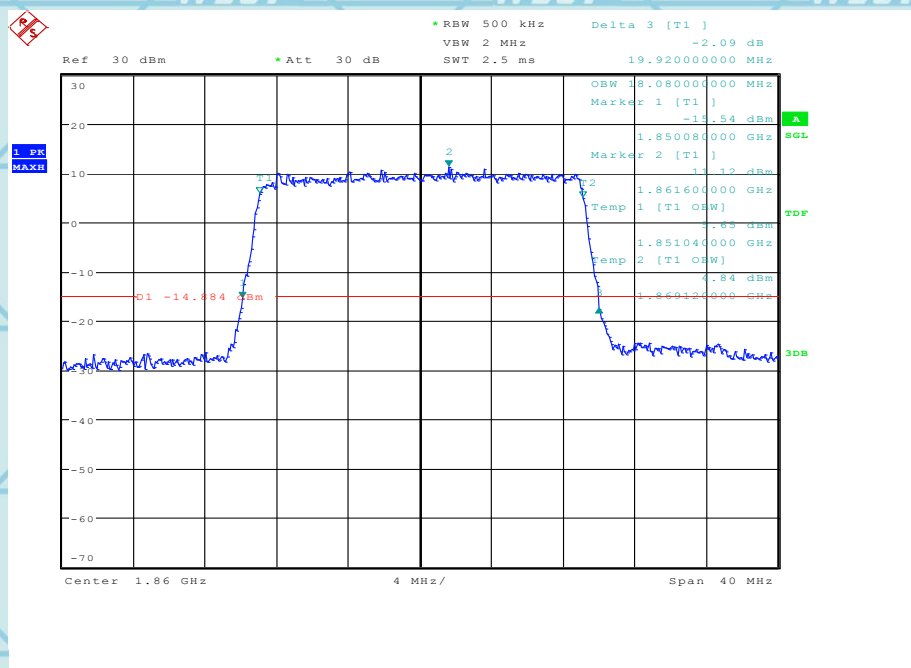
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BW20MHz-1860MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.84MHz



Date: 17.JUL.2018 16:39:13

BW20MHz-1860MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 16:38:49



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World Standardization Certification & Testing Group Co., Ltd.

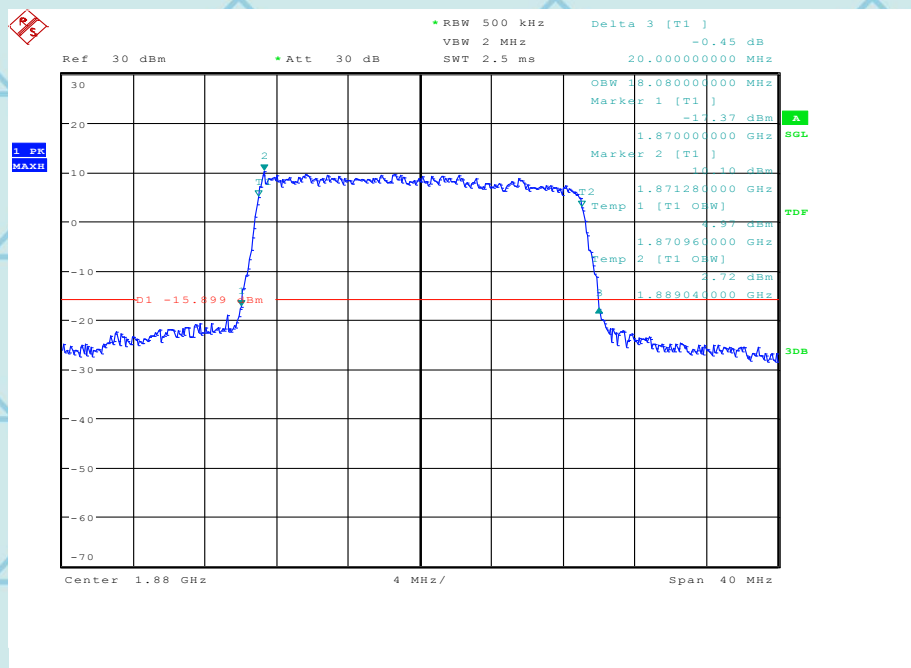
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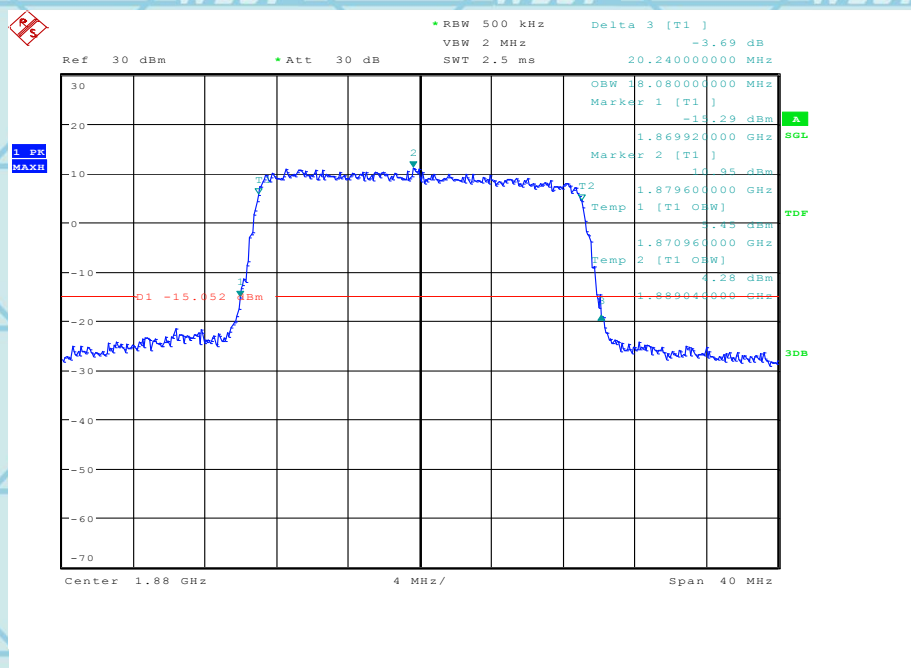
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BW20MHz-1880MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_20.MHz



Date: 17.JUL.2018 16:40:48

BW20MHz-1880MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.24MHz



Date: 17.JUL.2018 16:40:25



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World Standardization Certification & Testing Group Co., Ltd.

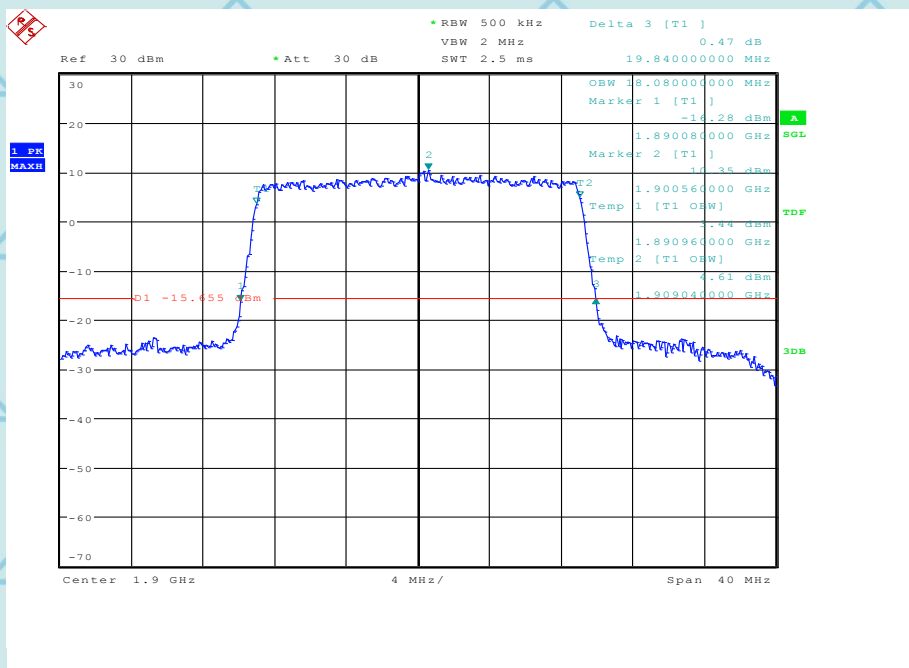
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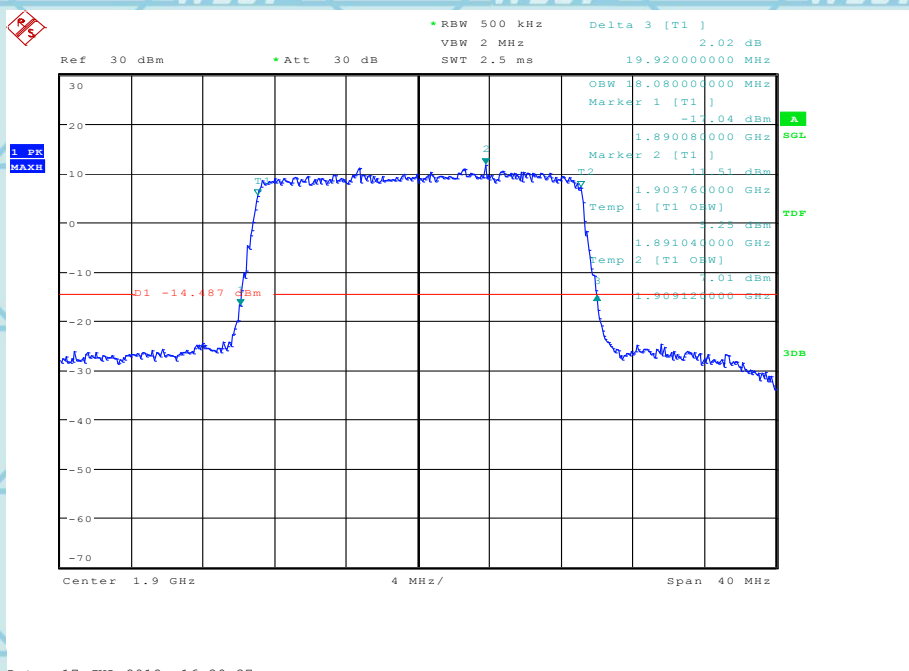


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BW20MHz-1900MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.84MHz



BW20MHz-1900MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



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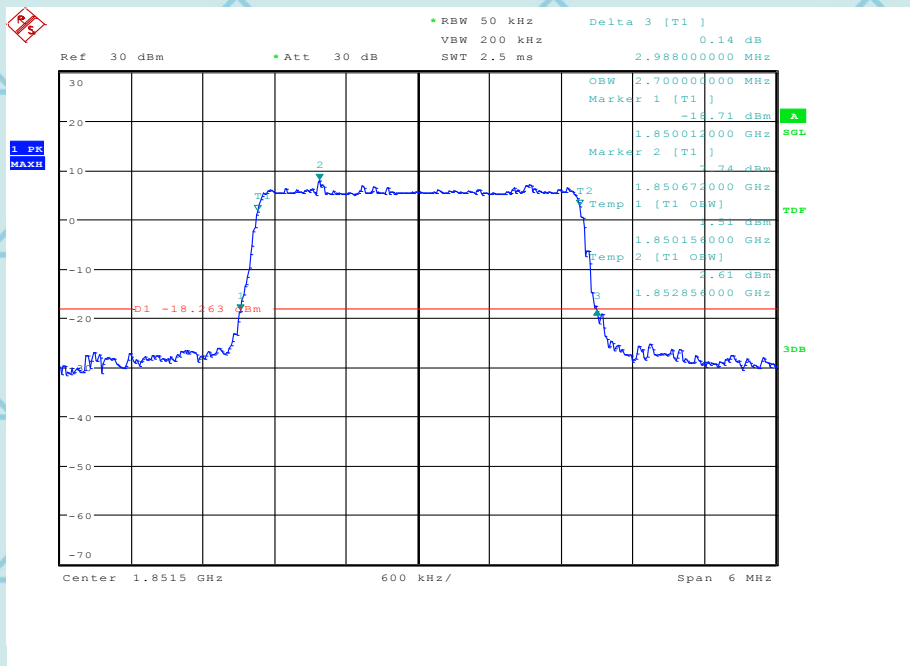
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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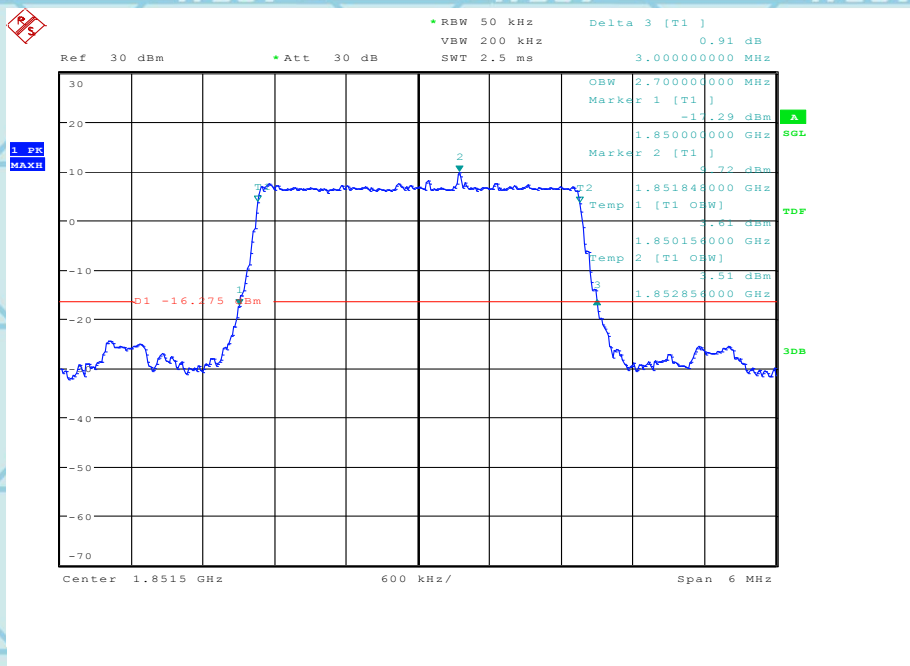
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BW3MHz-1851.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_2.988MHz



Date: 17.JUL.2018 16:29:10

BW3MHz-1851.5MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



Date: 17.JUL.2018 16:28:47



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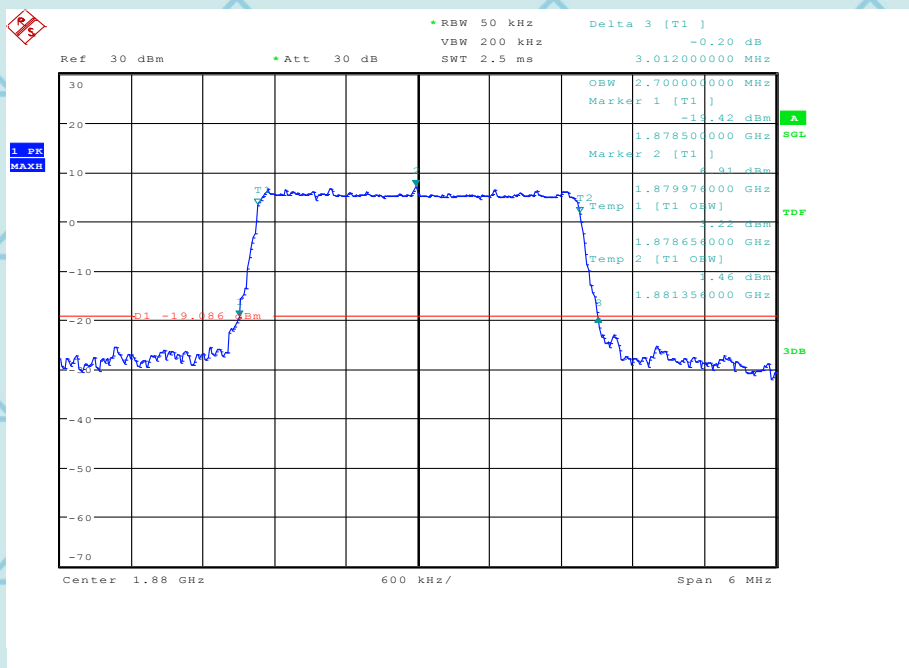
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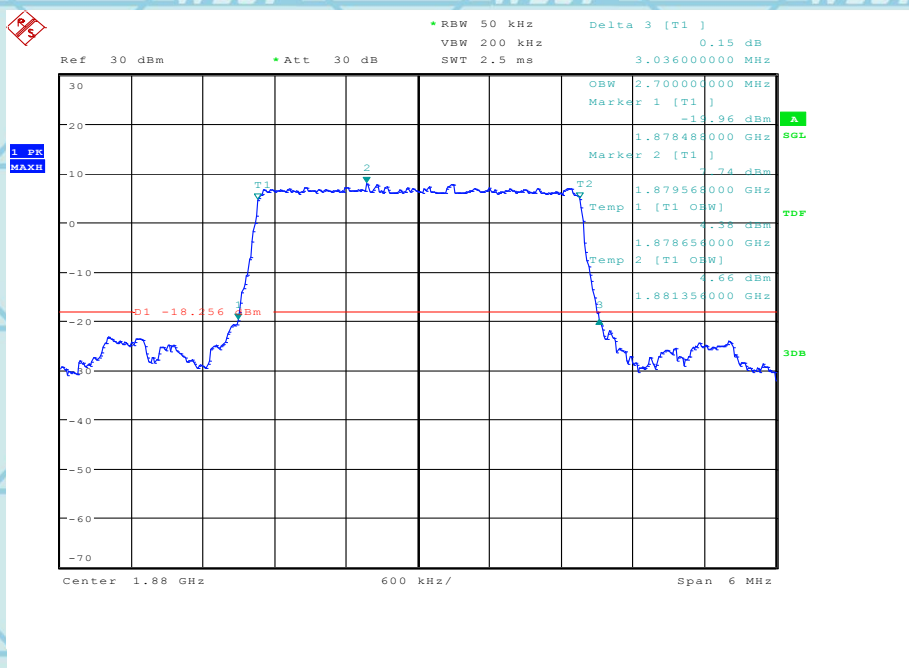
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BW3MHz-1880MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.012MHz



Date: 17-JUL-2018 16:30:57

BW3MHz-1880MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.036MHz



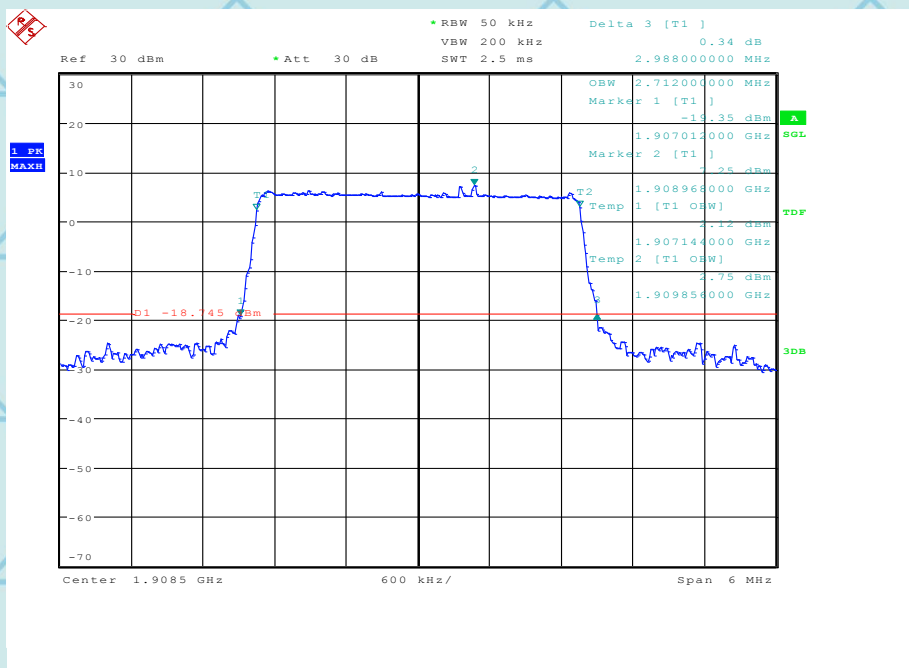
Date: 17-JUL-2018 16:30:37





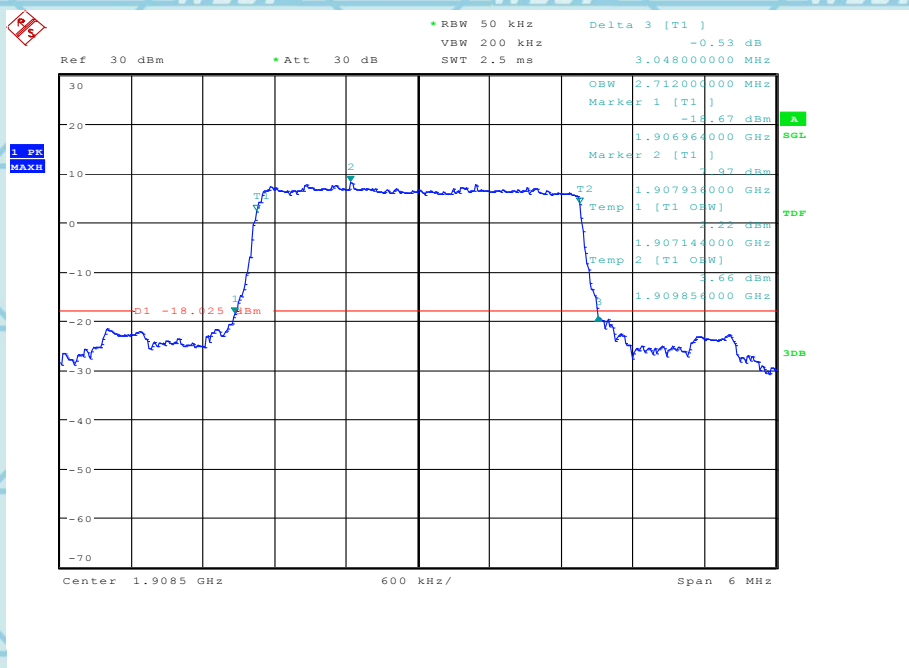
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BW3MHz-1908.5MHz,Q16-15RB_LOW@OBW_2.712MHz@26dB_2.988MHz



Date: 17.JUL.2018 16:30:15

BW3MHz-1908.5MHz,QPSK-15RB_LOW@OBW_2.712MHz@26dB_3.048MHz



Date: 17.JUL.2018 16:29:43



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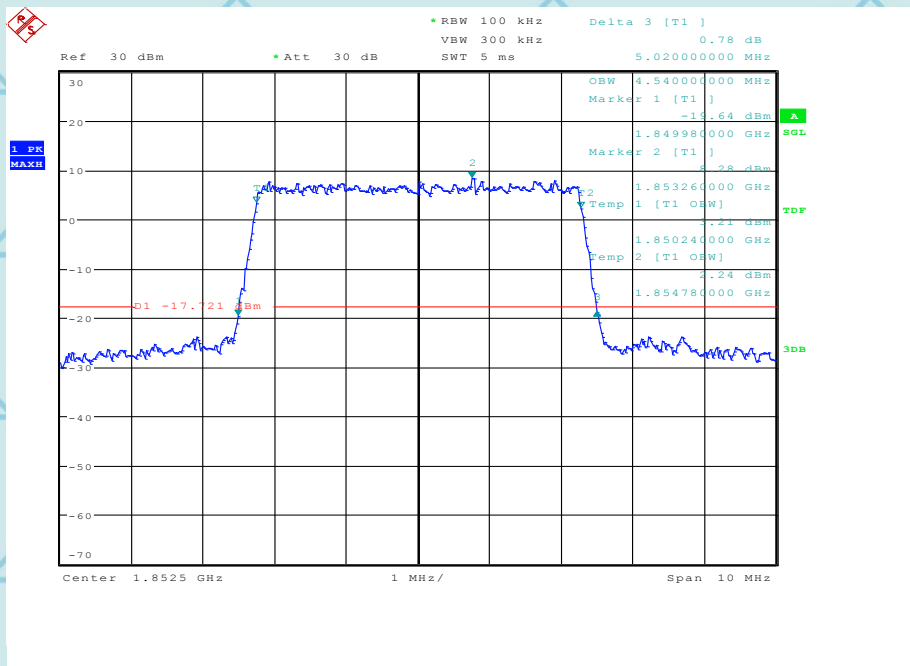
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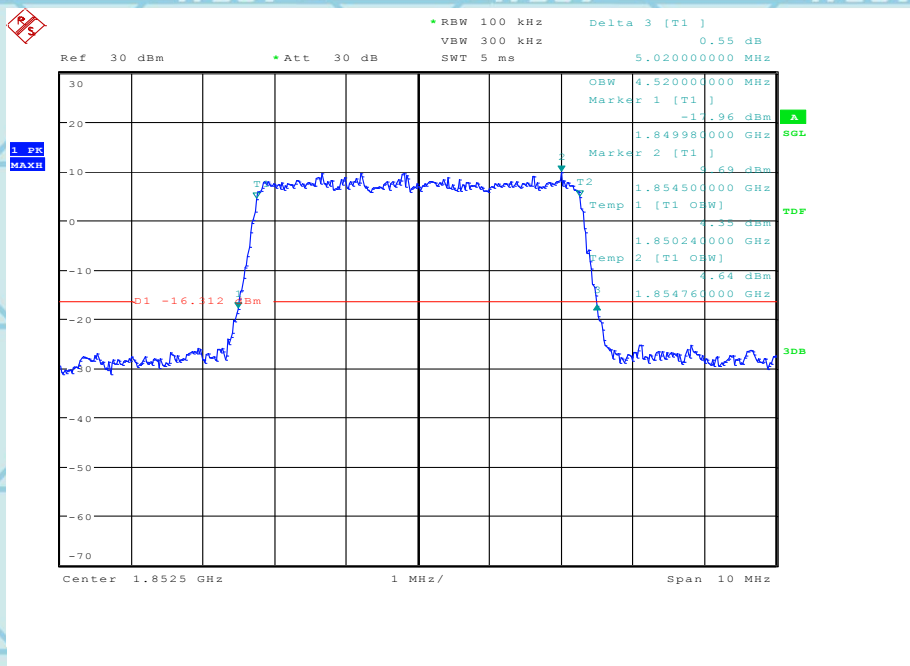
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BW5MHz-1852.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_5.02MHz



Date: 17.JUL.2018 16:31:55

BW5MHz-1852.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



Date: 17.JUL.2018 16:31:29



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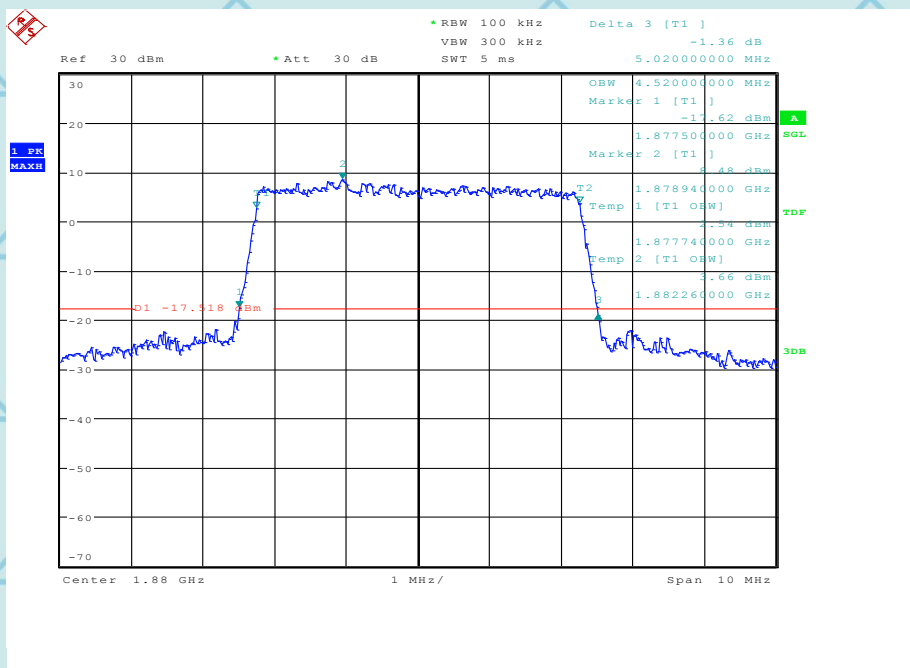
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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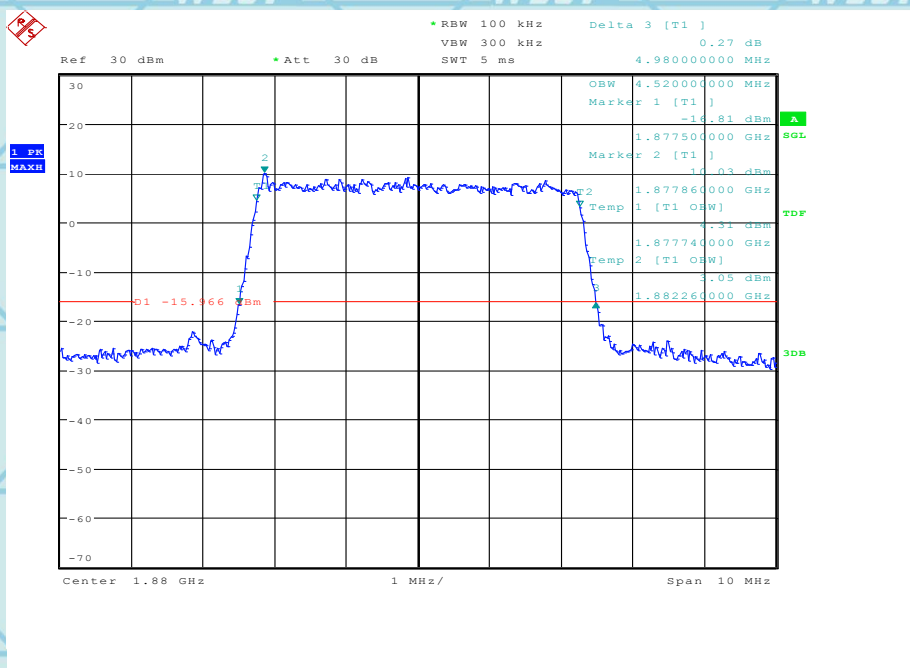
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BW5MHz-1880MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



Date: 17.JUL.2018 16:33:50

BW5MHz-1880MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



Date: 17.JUL.2018 16:33:28



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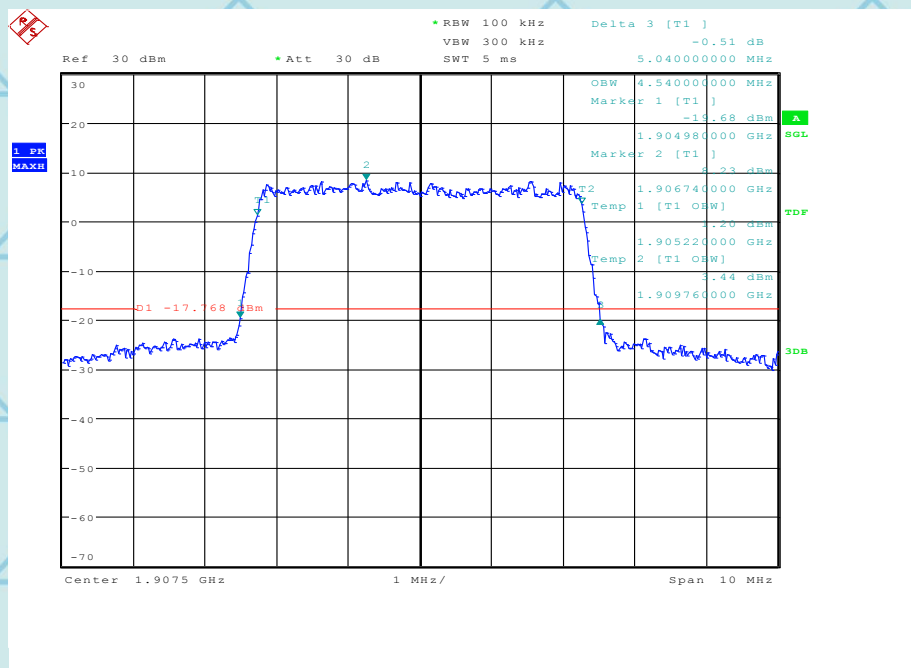
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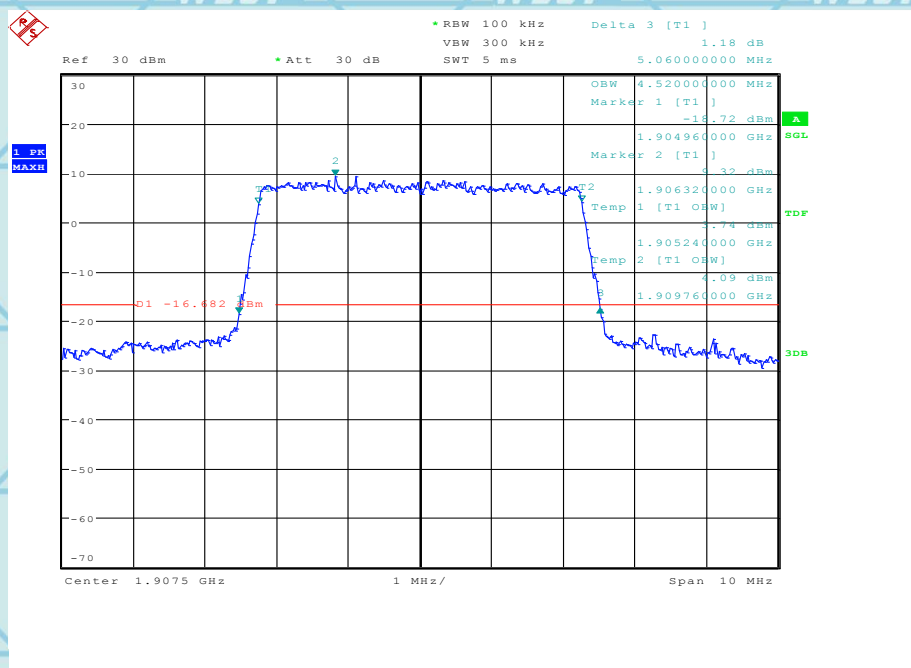
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BW5MHz-1907.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_5.04MHz



Date: 17.JUL.2018 16:33:05

BW5MHz-1907.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.06MHz



Date: 17.JUL.2018 16:32:30



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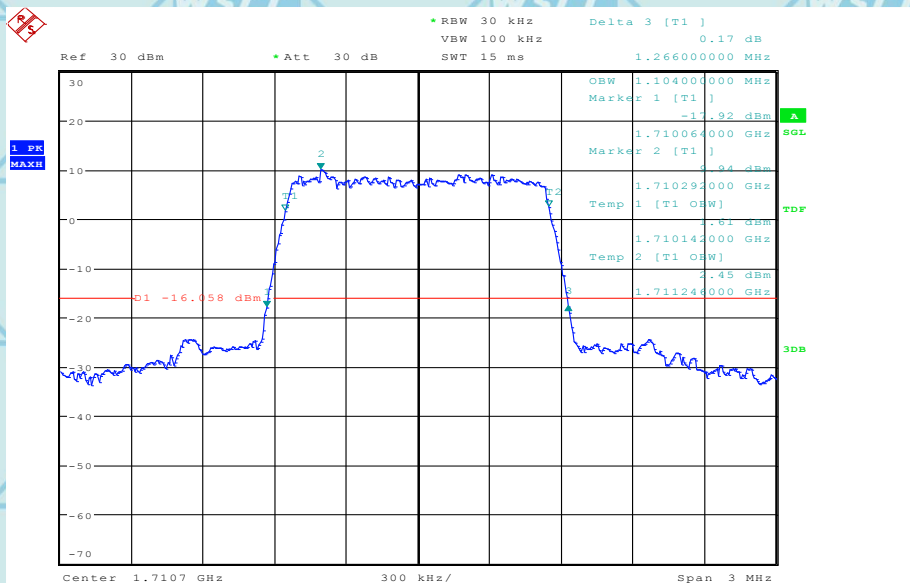
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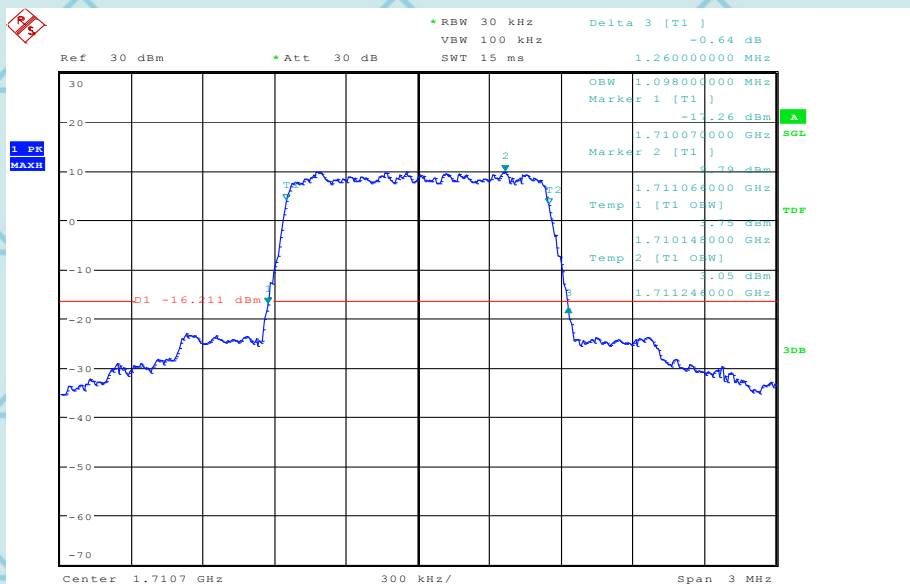
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BAND 4@Bandwidth
BW1.4MHz-1710.7MHz,Q16-6RB_LOW@OBW_1.104MHz@26dB_1.266MHz



Date: 17.JUL.2018 17:27:34

BW1.4MHz-1710.7MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



Date: 17.JUL.2018 17:26:59

BW1.4MHz-1732.5MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.266MHz



世标检测认证股份

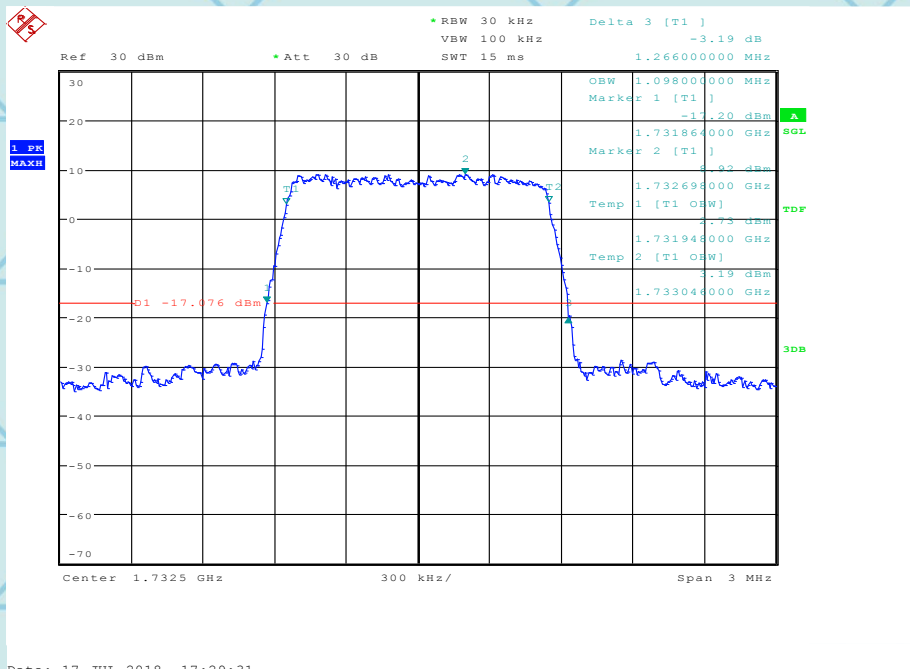
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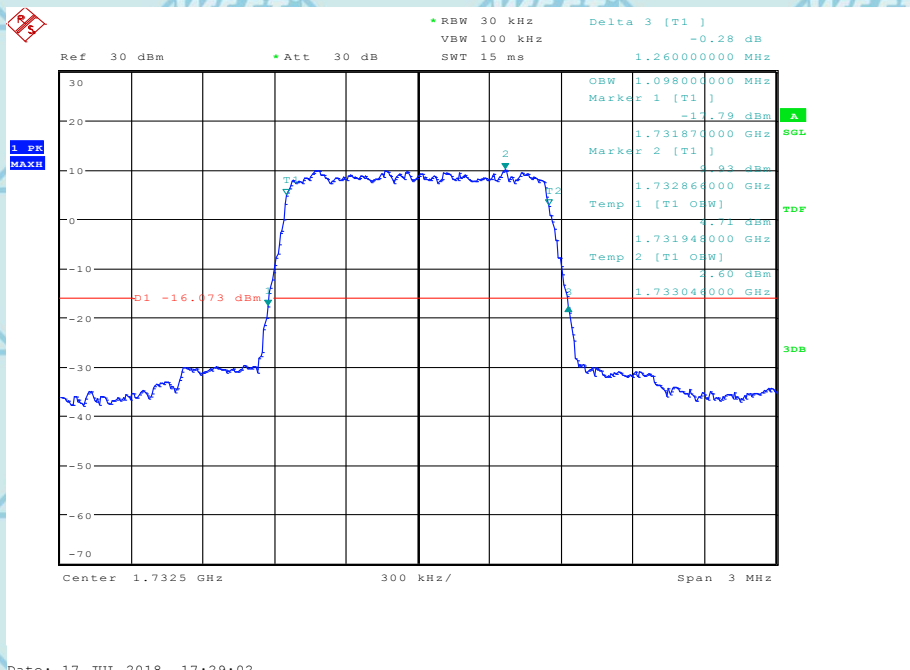


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Date: 17.JUL.2018 17:29:31

BW1.4MHz-1732.5MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



Date: 17.JUL.2018 17:29:02



世标检测认证股份
World Standardization Certification & Testing Group Co., Ltd.

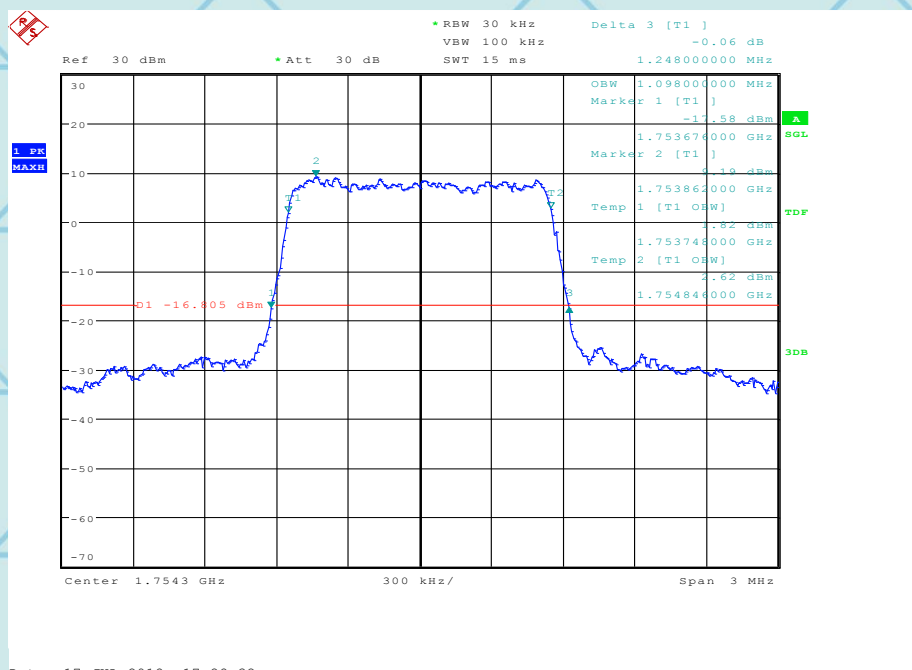
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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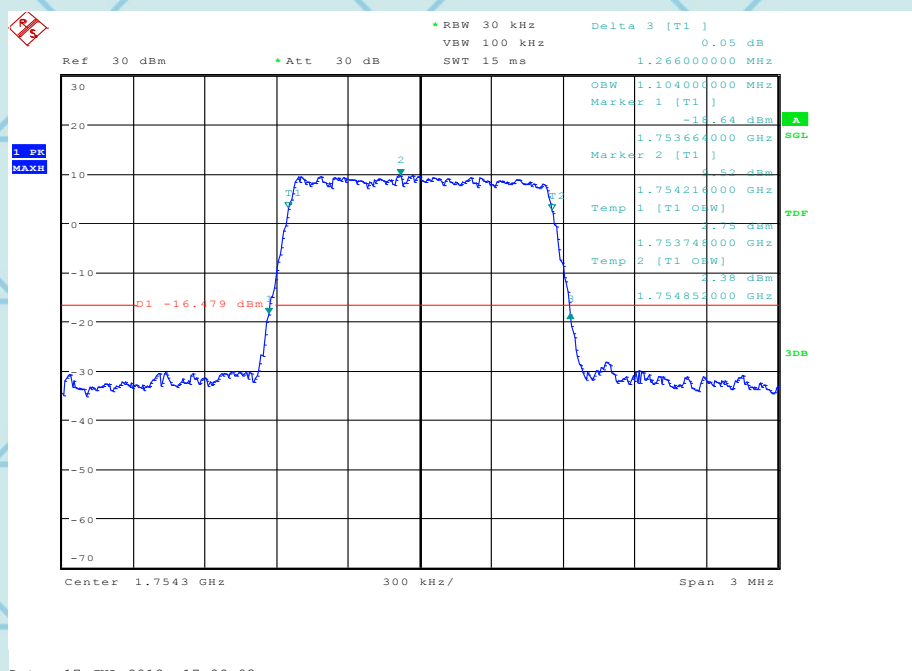
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BW1.4MHz-1754.3MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.248MHz



Date: 17.JUL.2018 17:28:32

BW1.4MHz-1754.3MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.266MHz



Date: 17.JUL.2018 17:28:03



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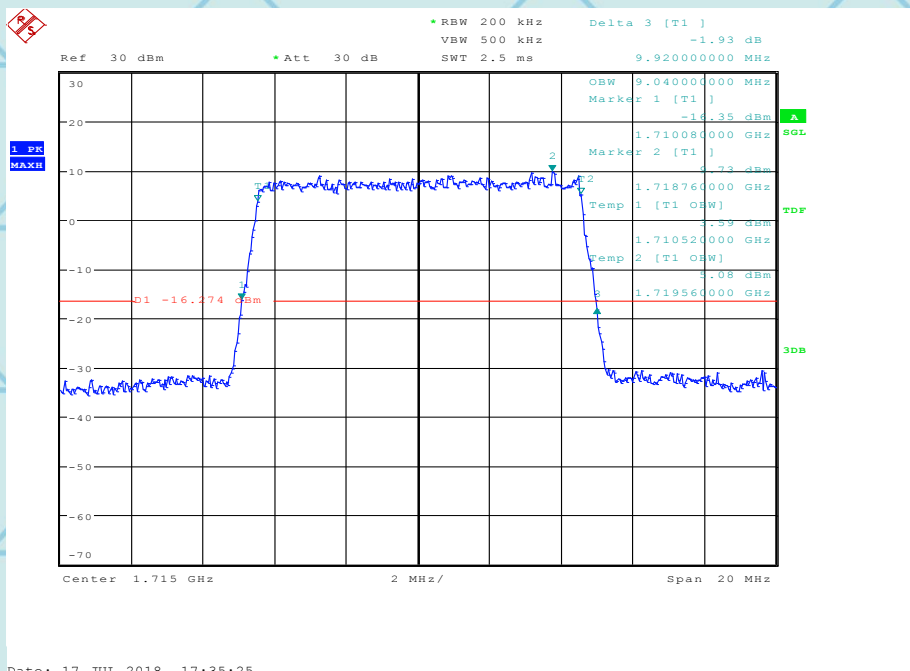
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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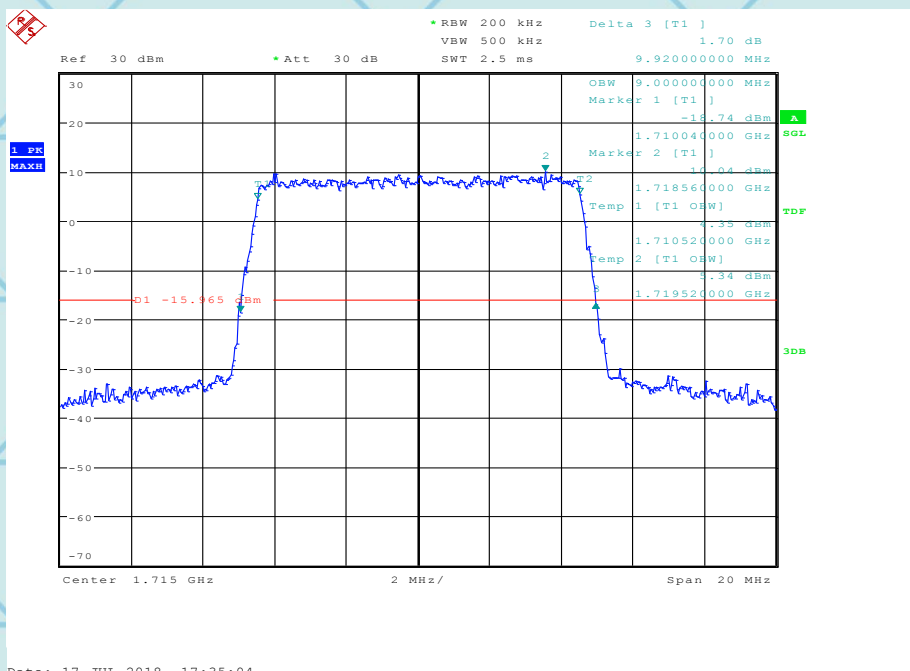
For Question,
Please Contact with WSCT
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BW10MHz-1715MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.92MHz



Date: 17.JUL.2018 17:35:25

BW10MHz-1715MHz,QPSK-50RB_LOW@OBW_9.9MHz@26dB_9.92MHz



Date: 17.JUL.2018 17:35:04



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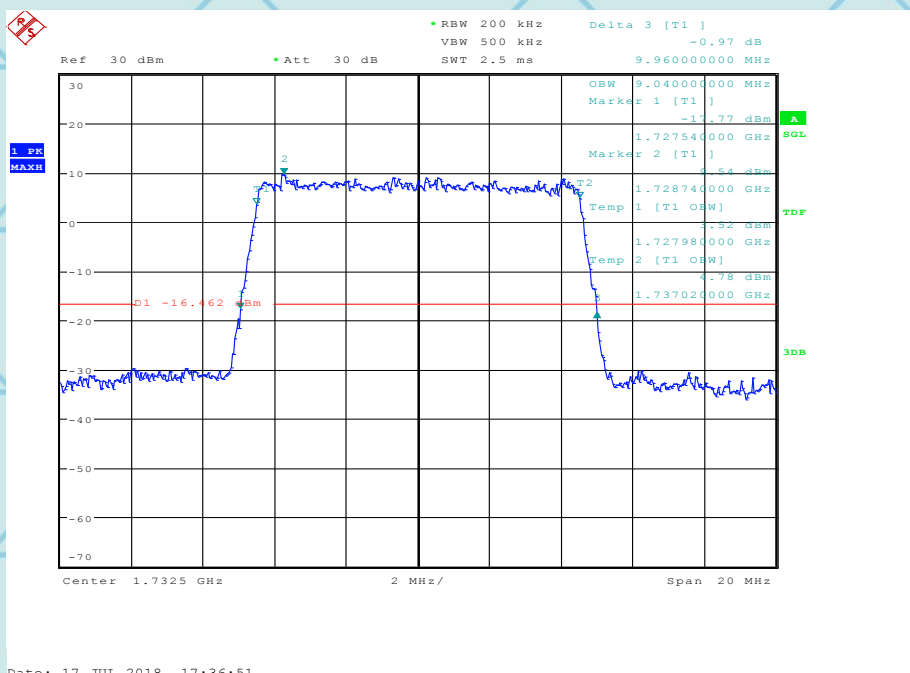
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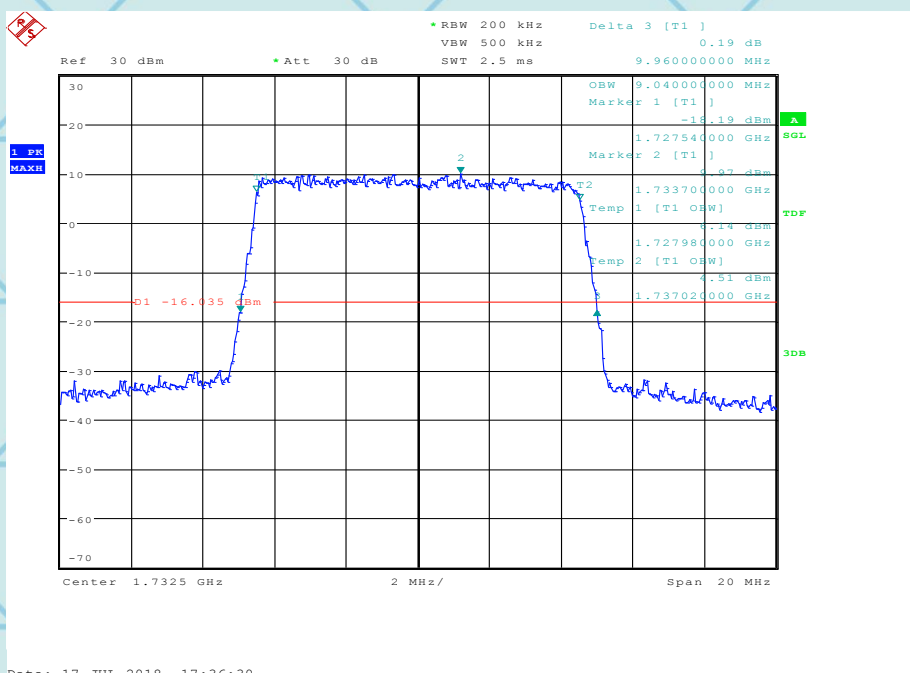
For Question,
Please Contact with WSCT
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BW10MHz-1732.5MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



Date: 17.JUL.2018 17:36:51

BW10MHz-1732.5MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



Date: 17.JUL.2018 17:36:30



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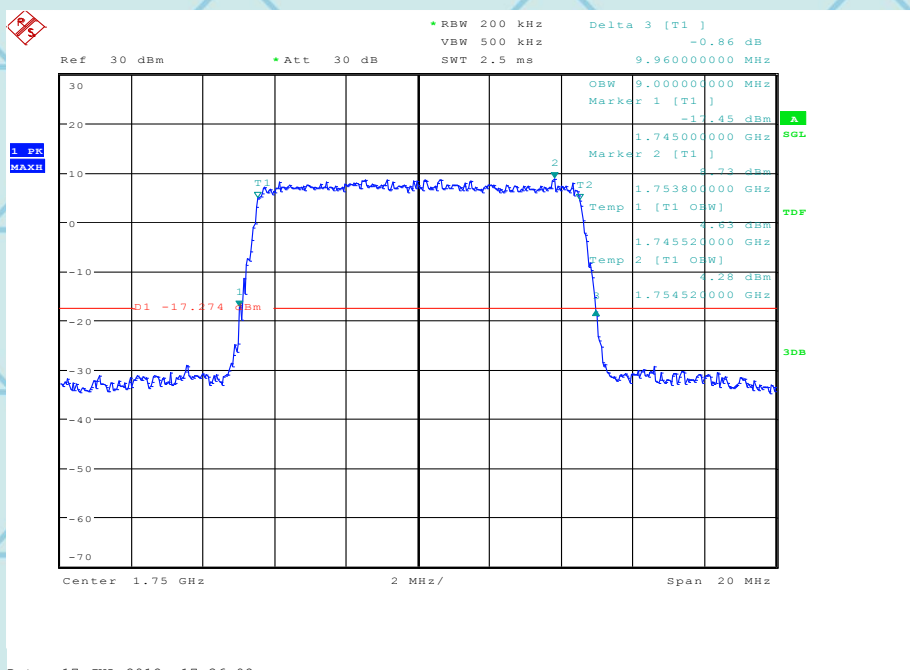
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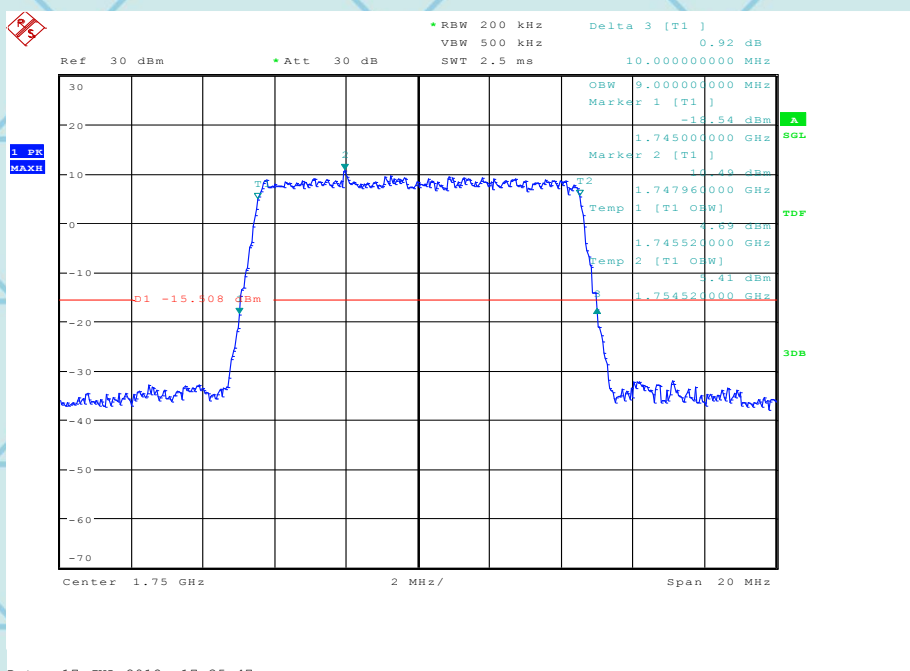
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Please Contact with WSCT
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BW10MHz-1750MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.96MHz



Date: 17.JUL.2018 17:36:08

BW10MHz-1750MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_10.MHz



Date: 17.JUL.2018 17:35:47



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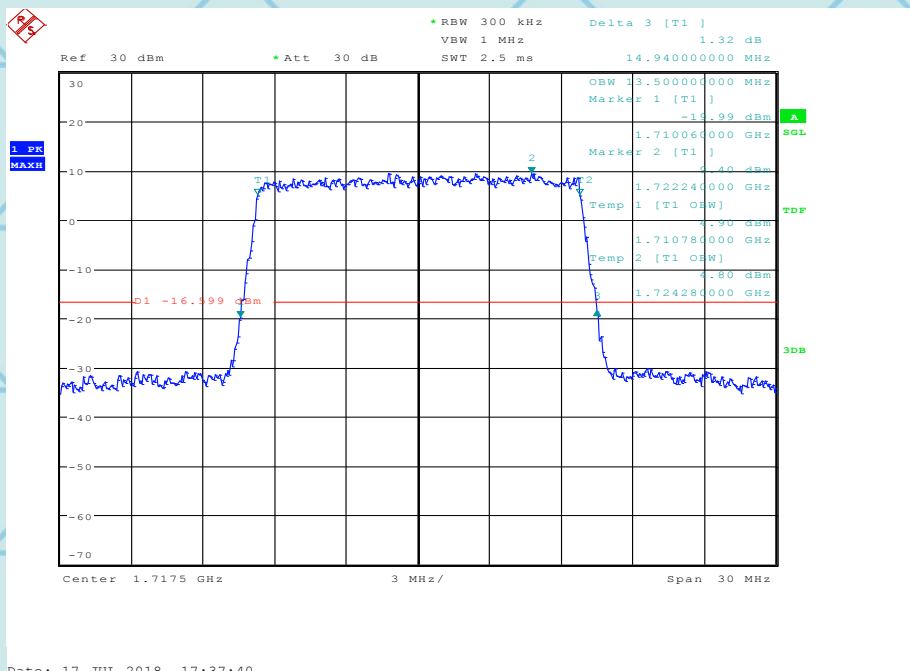
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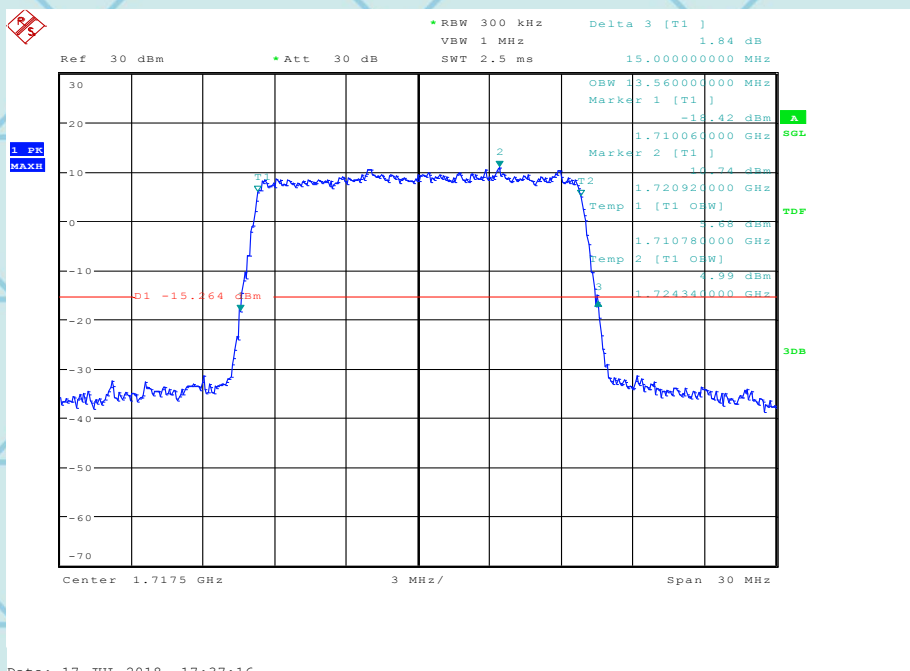
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BW15MHz-1717.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.94MHz



Date: 17.JUL.2018 17:37:40

BW15MHz-1717.5MHz,QPSK-75RB_LOW@OBW_13.56MHz@26dB_15.MHz



Date: 17.JUL.2018 17:37:16



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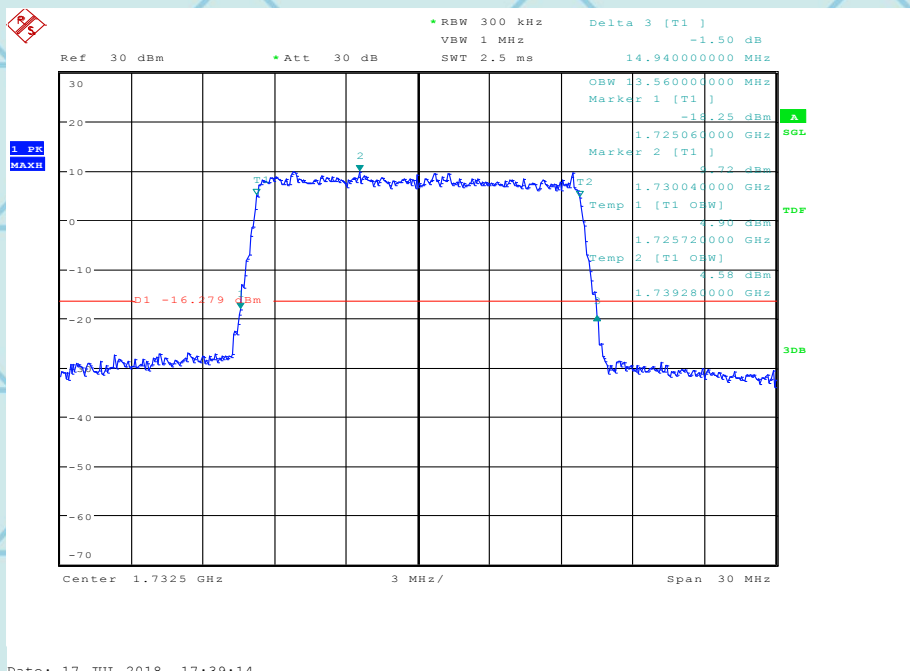
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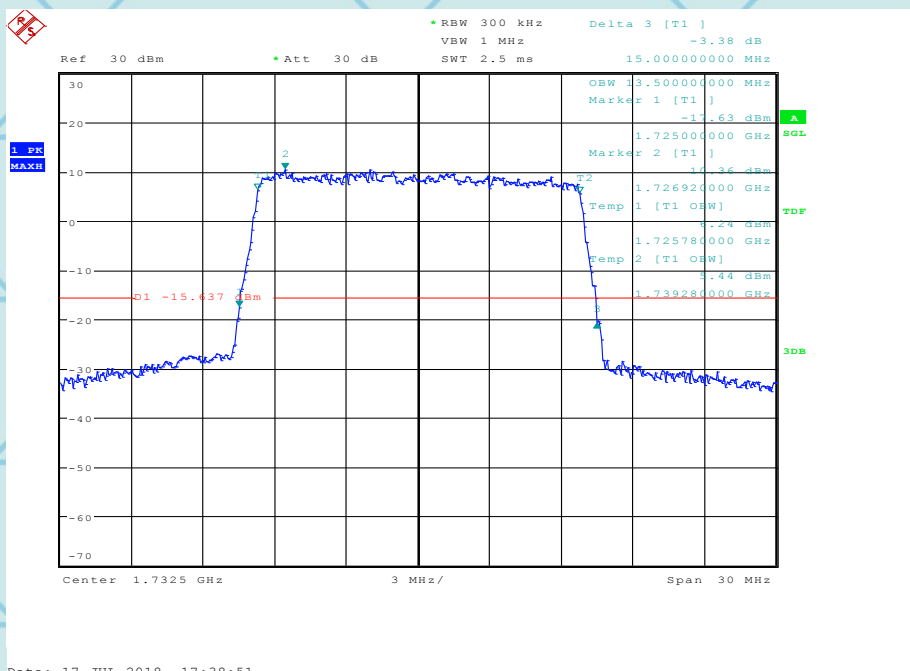
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BW15MHz-1732.5MHz,Q16-75RB_LOW@OBW_13.56MHz@26dB_14.94MHz



Date: 17.JUL.2018 17:39:14

BW15MHz-1732.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_15.MHz



Date: 17.JUL.2018 17:38:51



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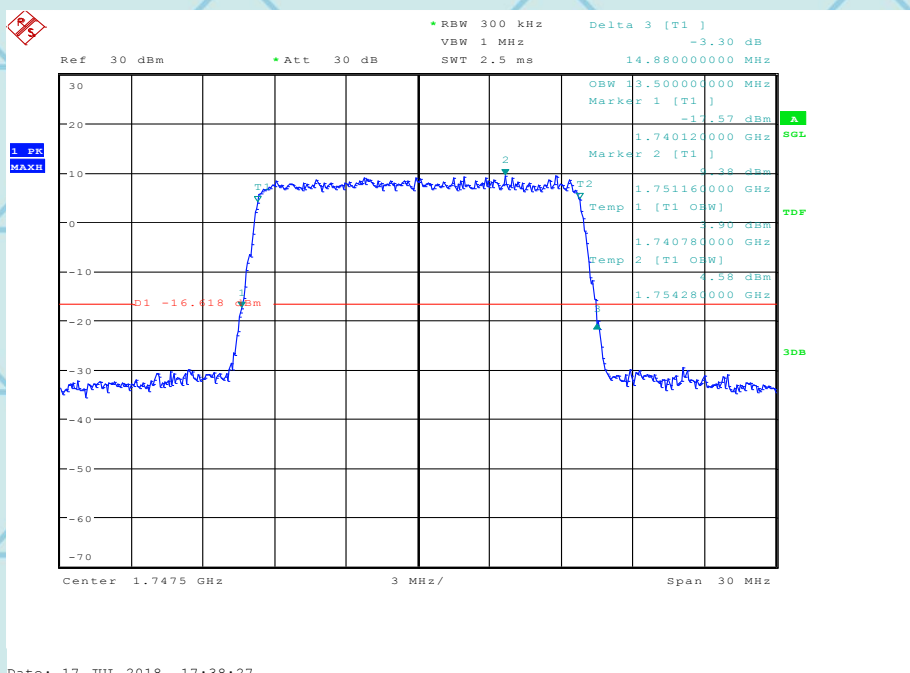
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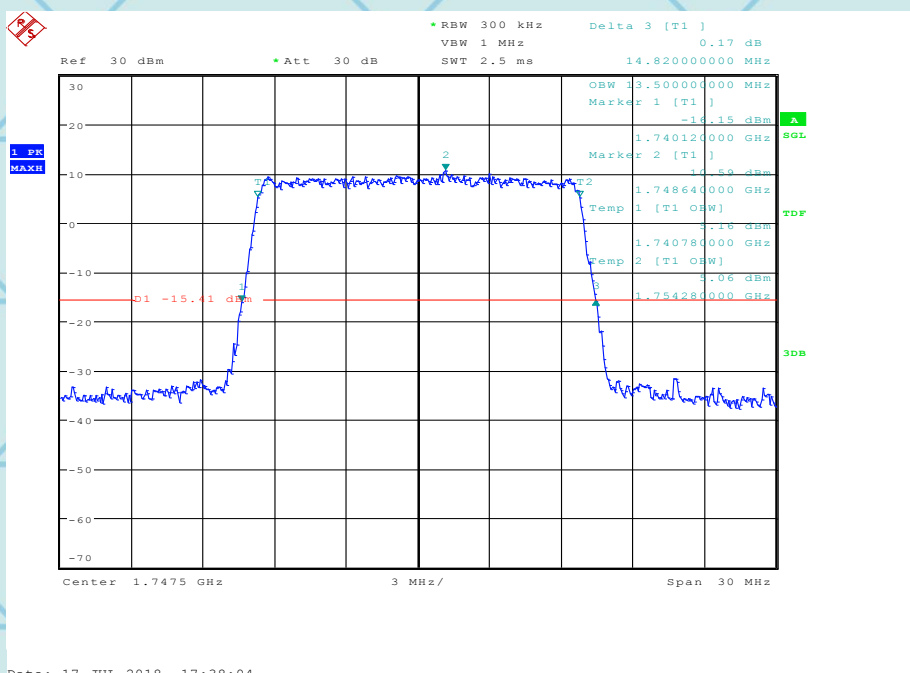
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Please Contact with WSCT
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BW15MHz-1747.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



Date: 17.JUL.2018 17:38:27

BW15MHz-1747.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.82MHz



Date: 17.JUL.2018 17:38:04



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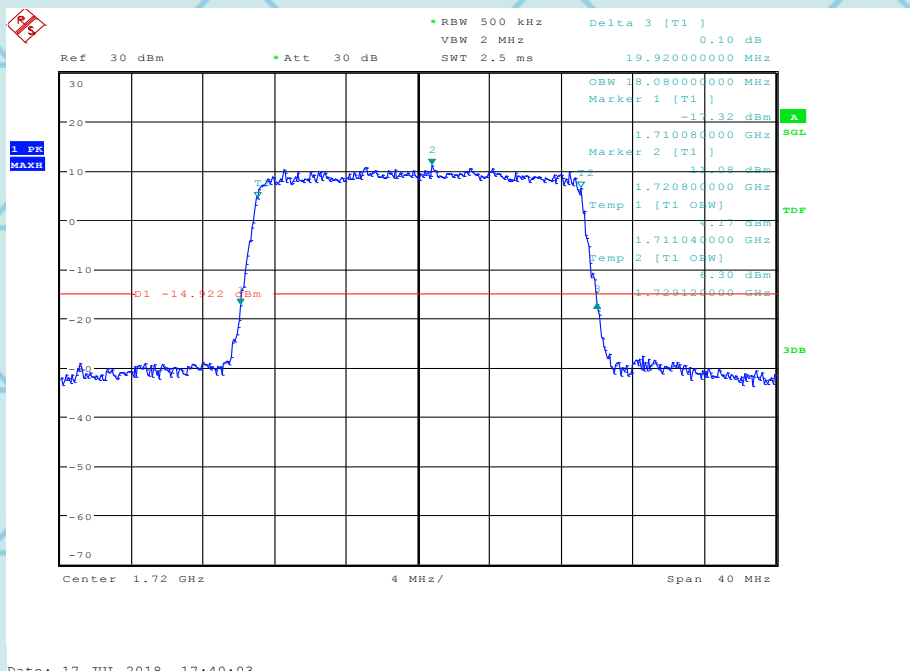
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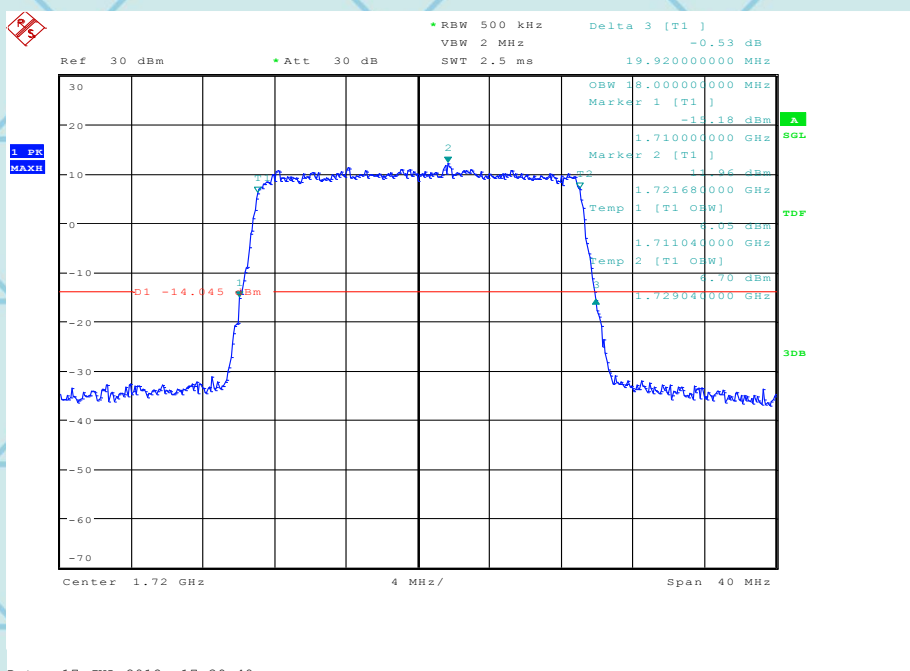
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BW20MHz-1720MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 17:40:03

BW20MHz-1720MHz,QPSK-100RB_LOW@OBW_18.MHz@26dB_19.92MHz



Date: 17.JUL.2018 17:39:40



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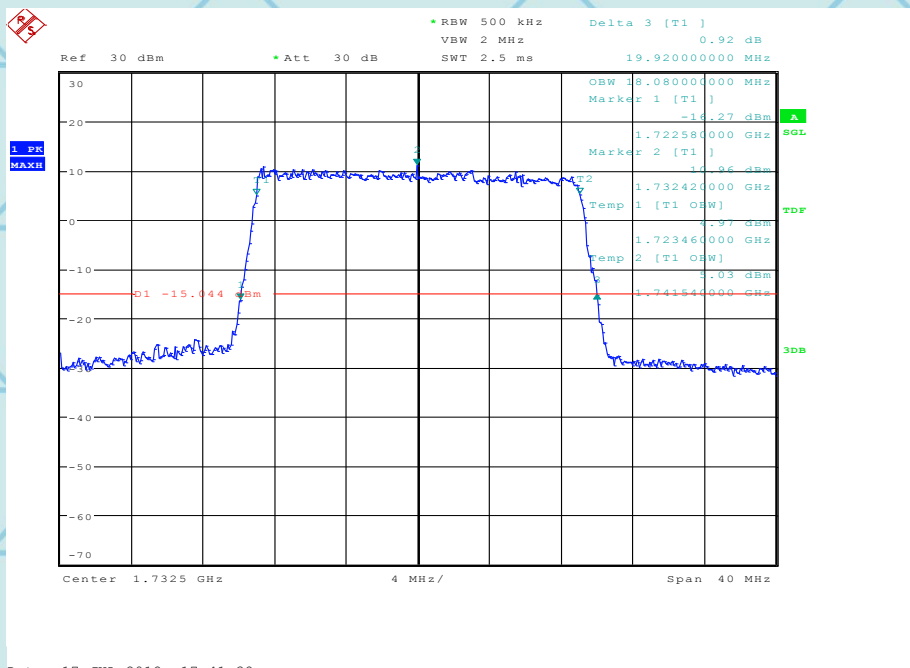
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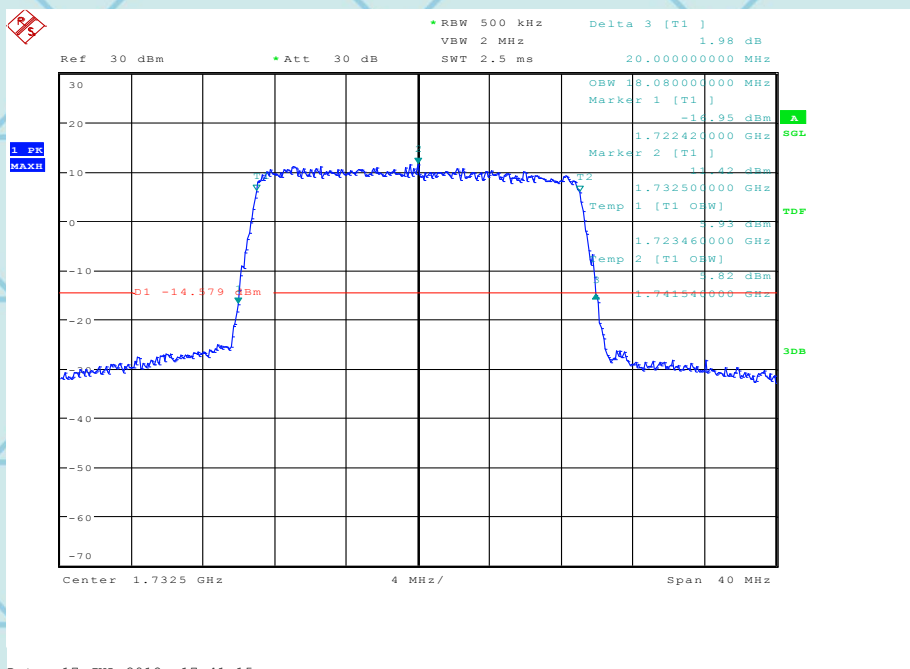
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BW20MHz-1732.5MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 17:41:38

BW20MHz-1732.5MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.MHz



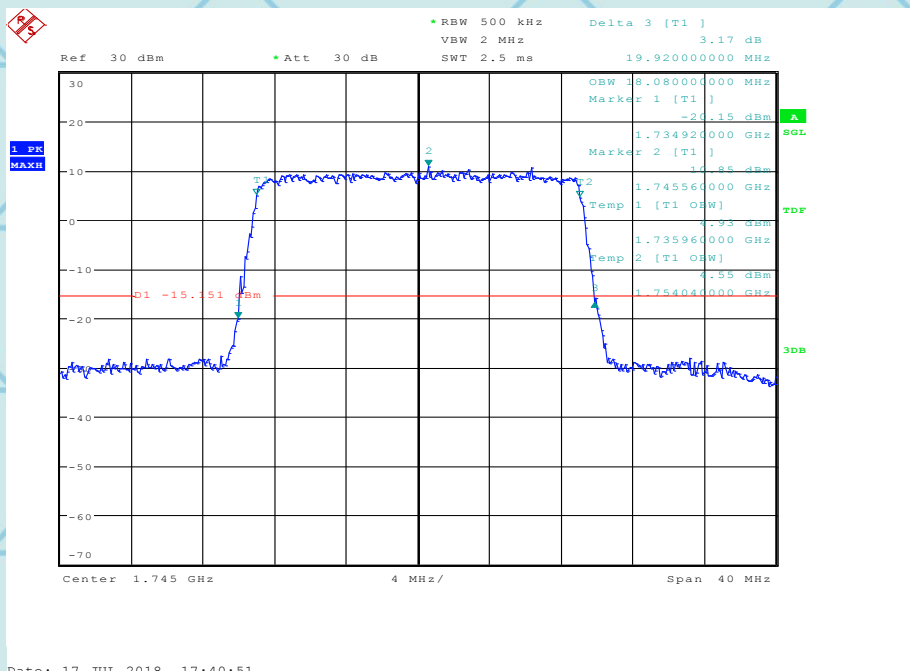
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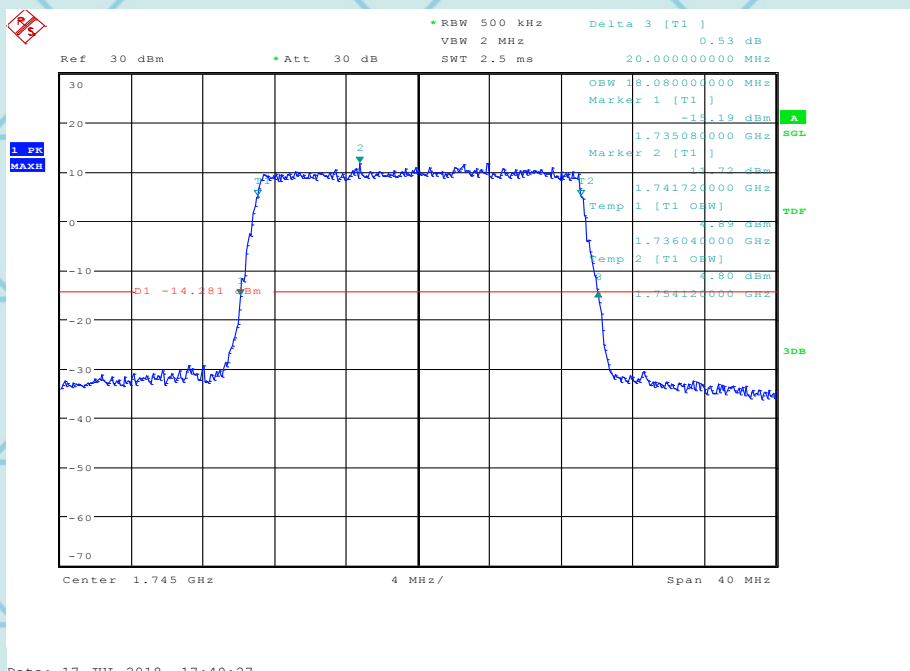
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BW20MHz-1745MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 17:40:51

BW20MHz-1745MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.MHz



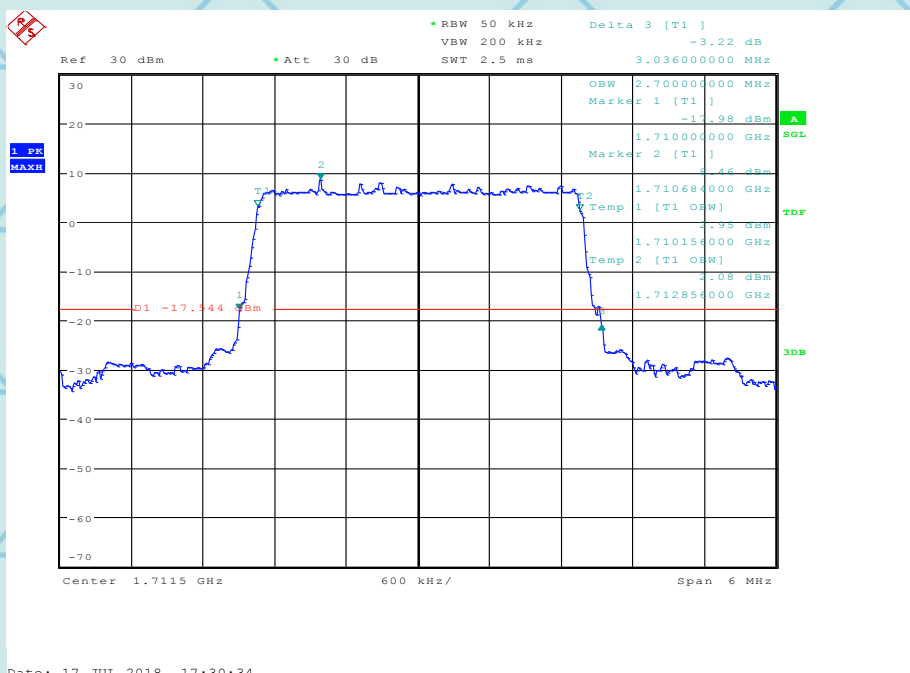
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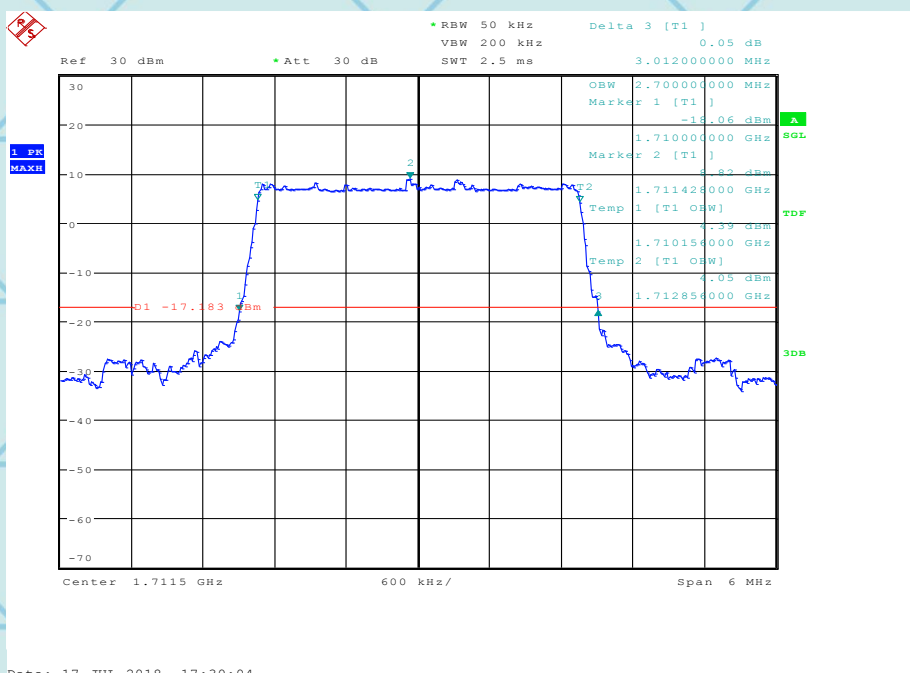
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BW3MHz-1711.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.036MHz



Date: 17.JUL.2018 17:30:34

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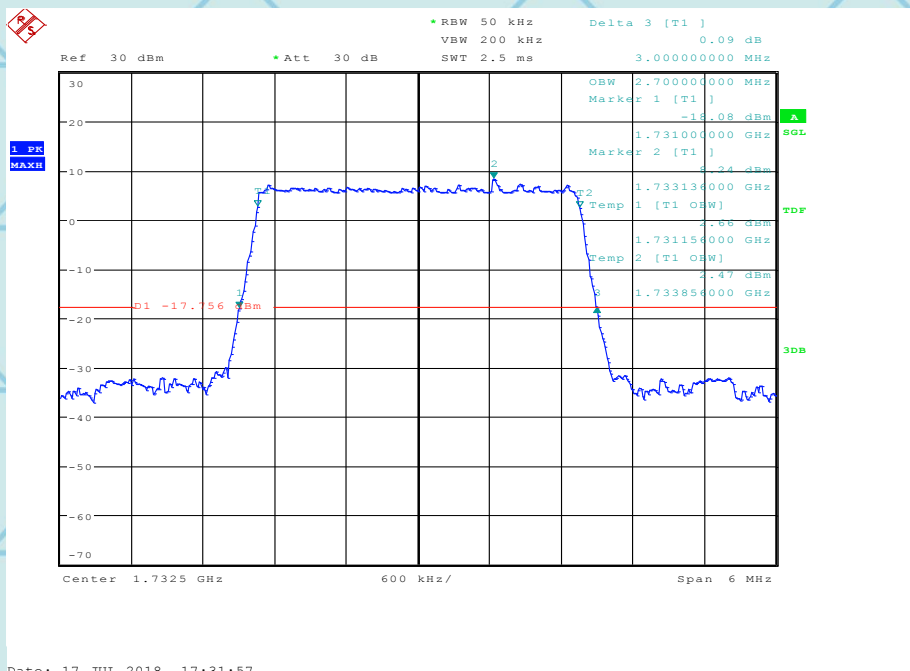
Date: 17.JUL.2018 17:30:04





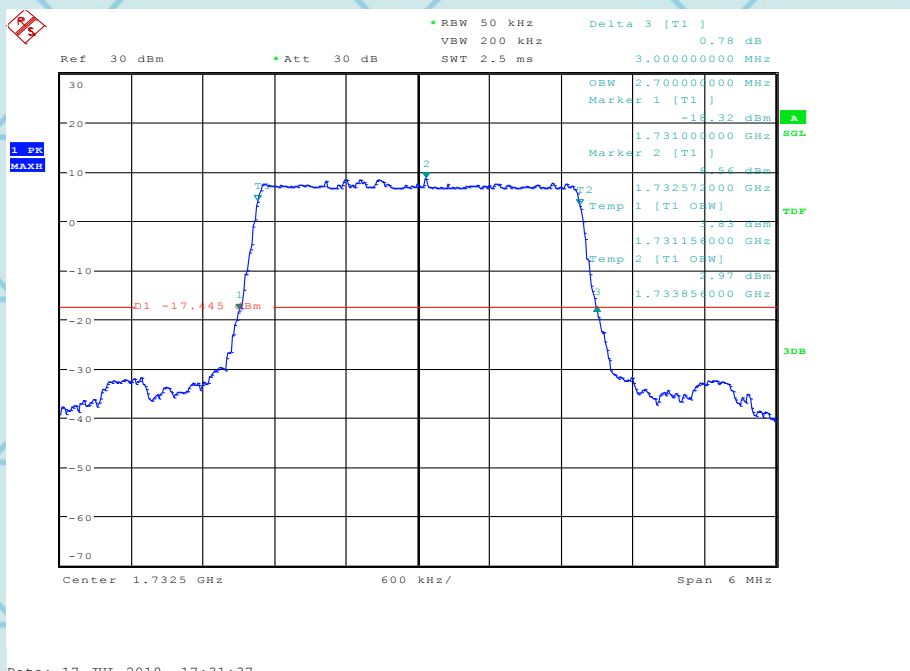
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BW3MHz-1732.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



Date: 17.JUL.2018 17:31:57

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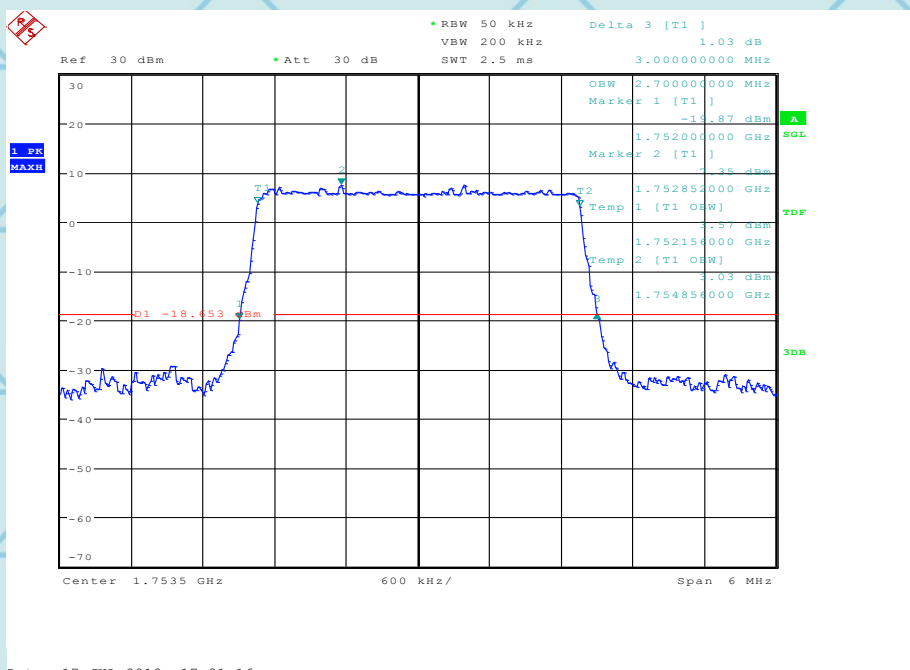
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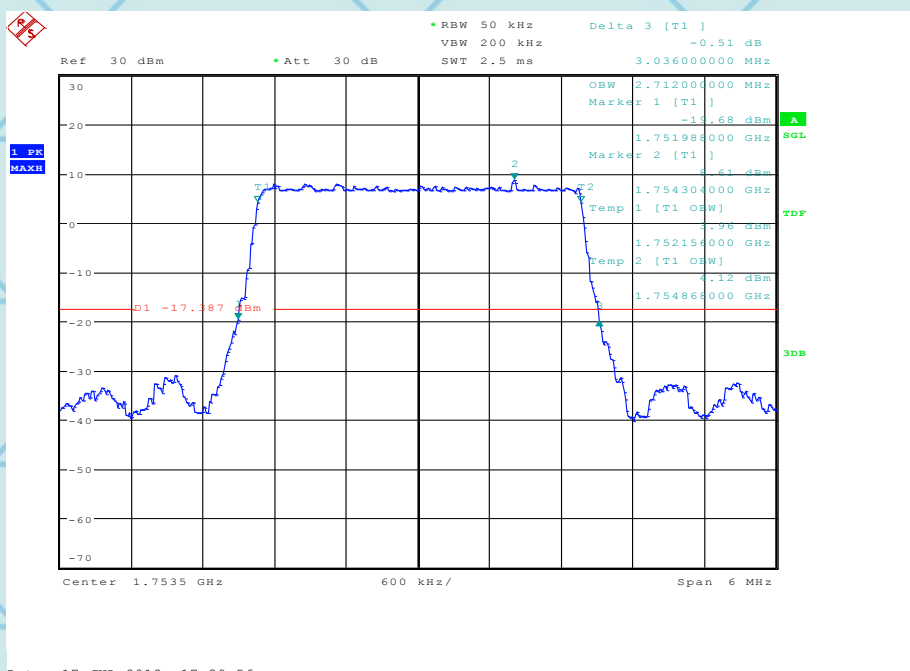
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BW3MHz-1753.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



Date: 17.JUL.2018 17:31:16

BW3MHz-1753.5MHz,QPSK-15RB_LOW@OBW_2.712MHz@26dB_3.036MHz



Date: 17.JUL.2018 17:30:56



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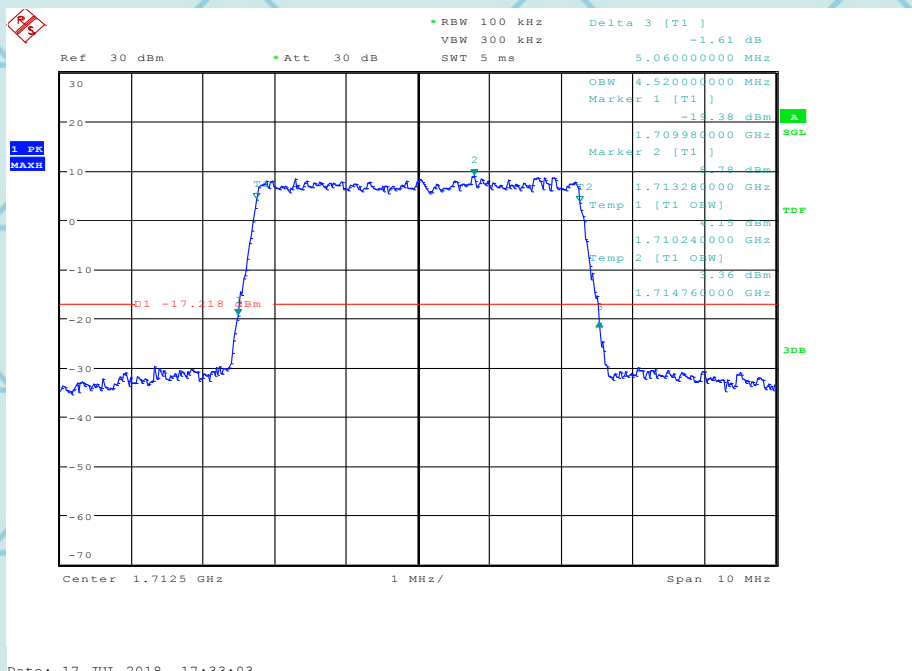
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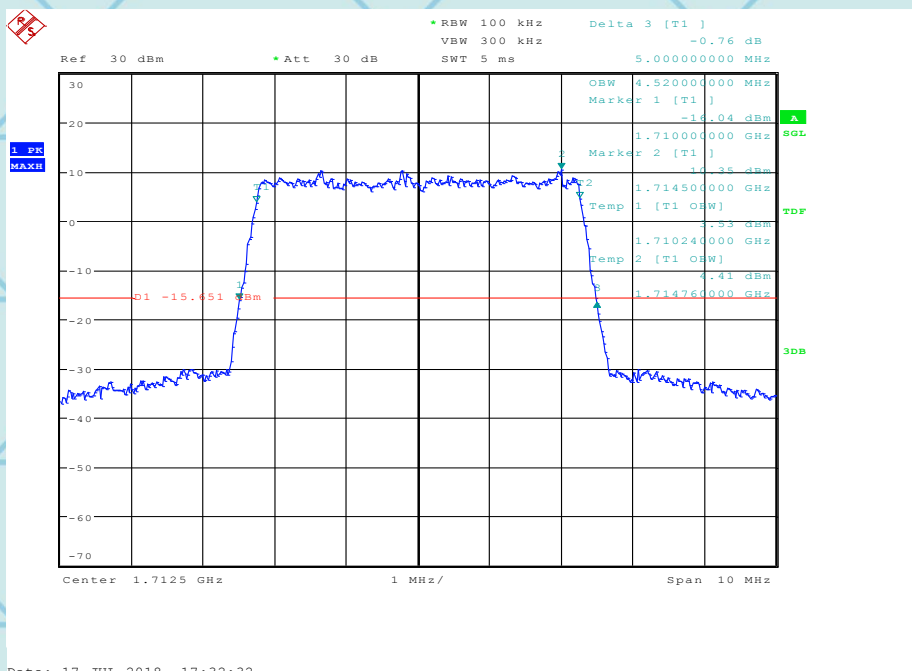
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BW5MHz-1712.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.06MHz



Date: 17.JUL.2018 17:33:03

BW5MHz-1712.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.0MHz



Date: 17.JUL.2018 17:32:32



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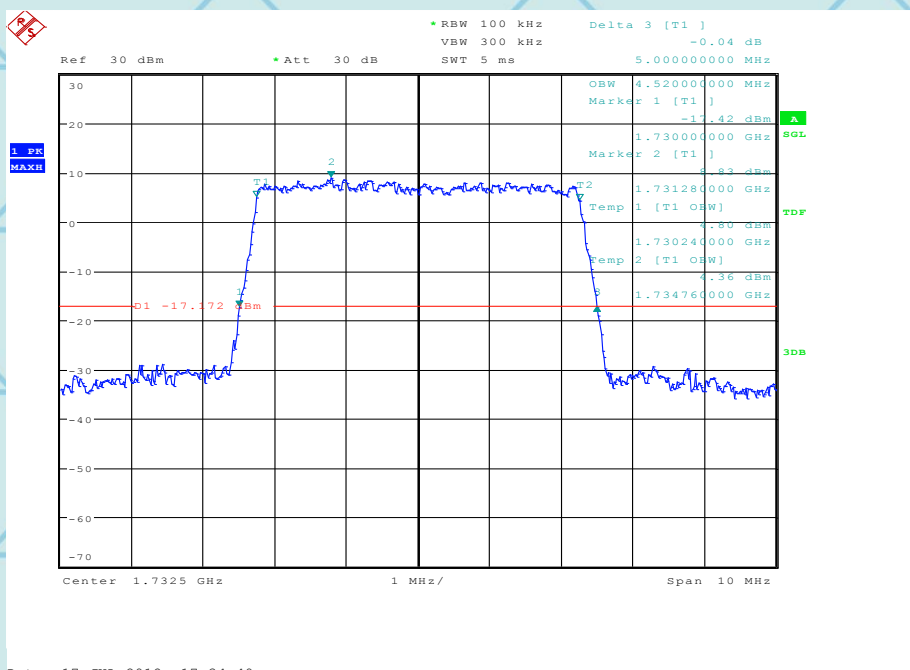
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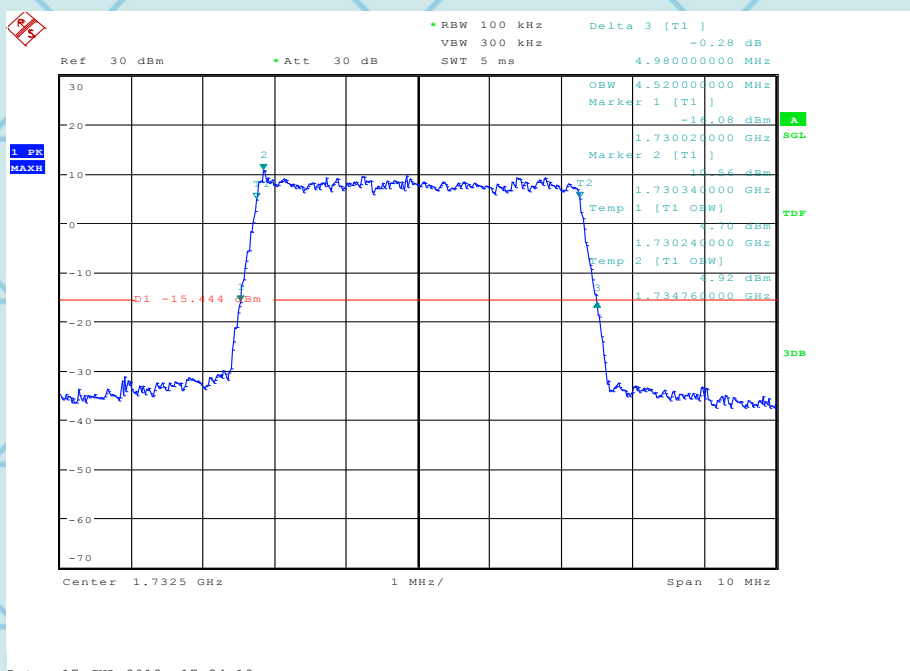
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BW5MHz-1732.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



Date: 17.JUL.2018 17:34:40

BW5MHz-1732.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



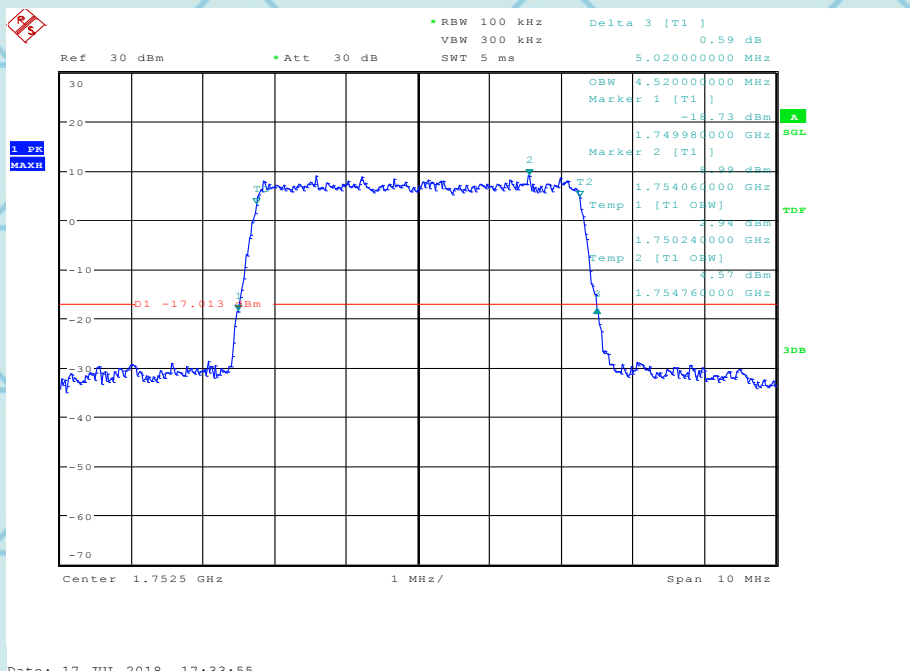
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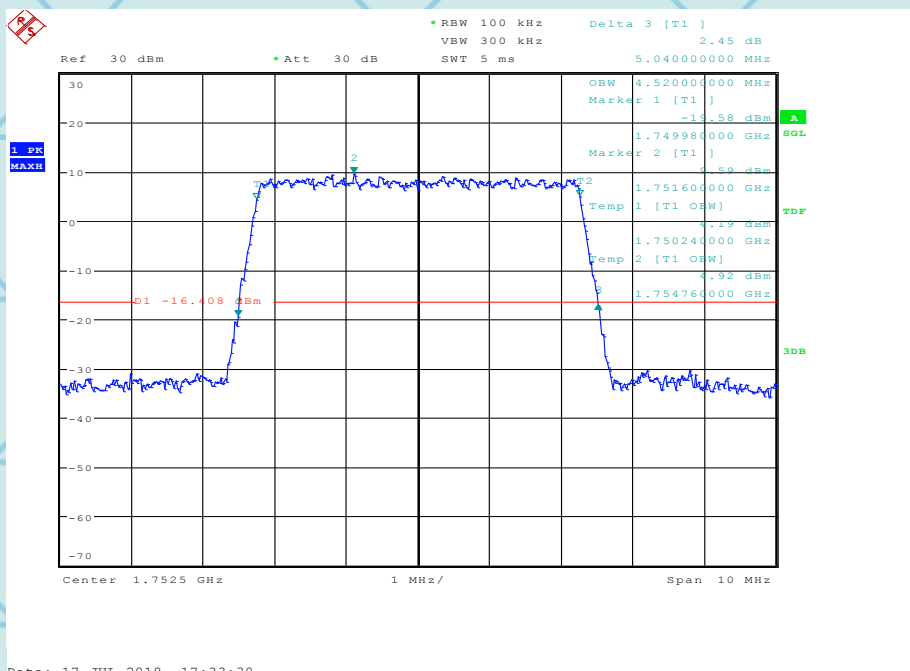
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BW5MHz-1752.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



Date: 17.JUL.2018 17:33:55

BW5MHz-1752.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.04MHz



Date: 17.JUL.2018 17:33:30

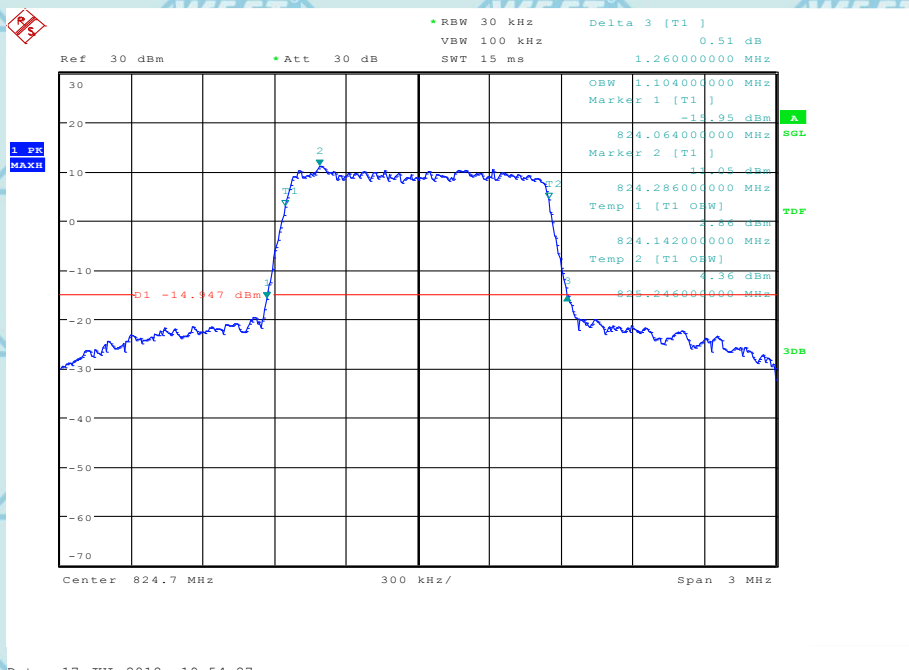




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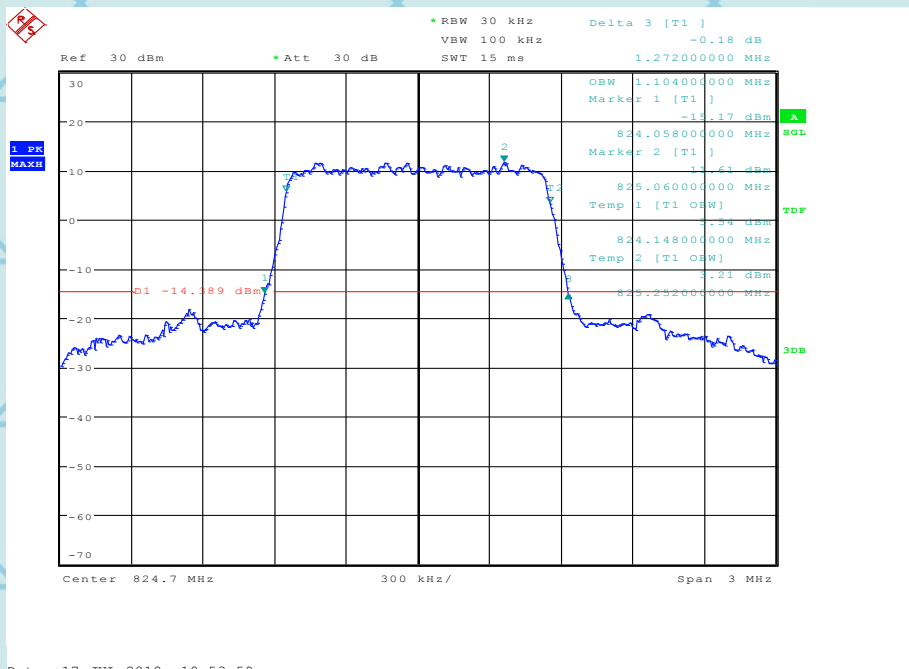
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BW1.4MHz-824.7MHz,Q16-6RB_LOW@OBW_1.104MHz@26dB_1.26MHz



Date: 17.JUL.2018 19:54:27

BW1.4MHz-824.7MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.272MHz



Date: 17.JUL.2018 19:53:59



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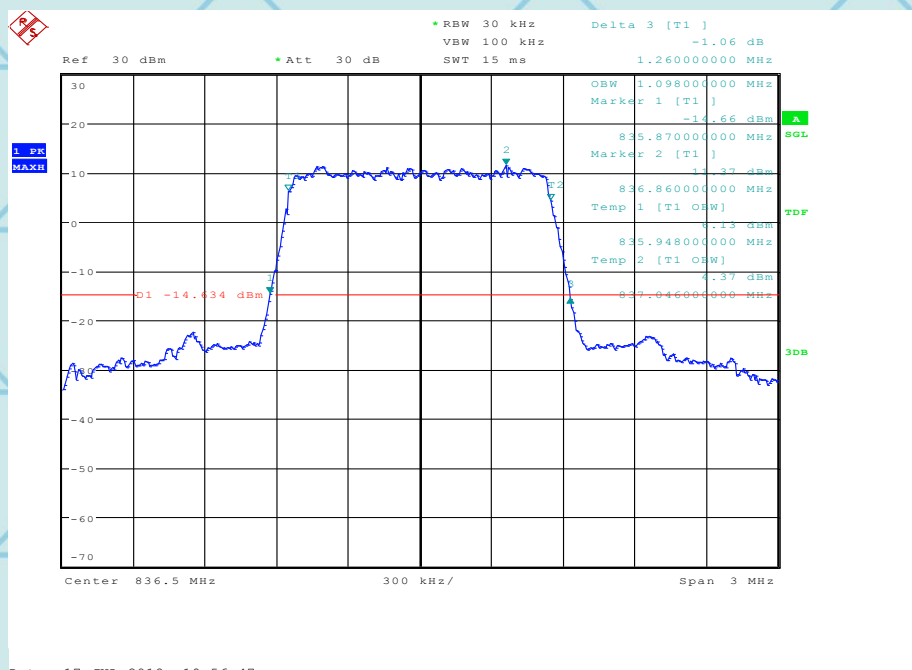
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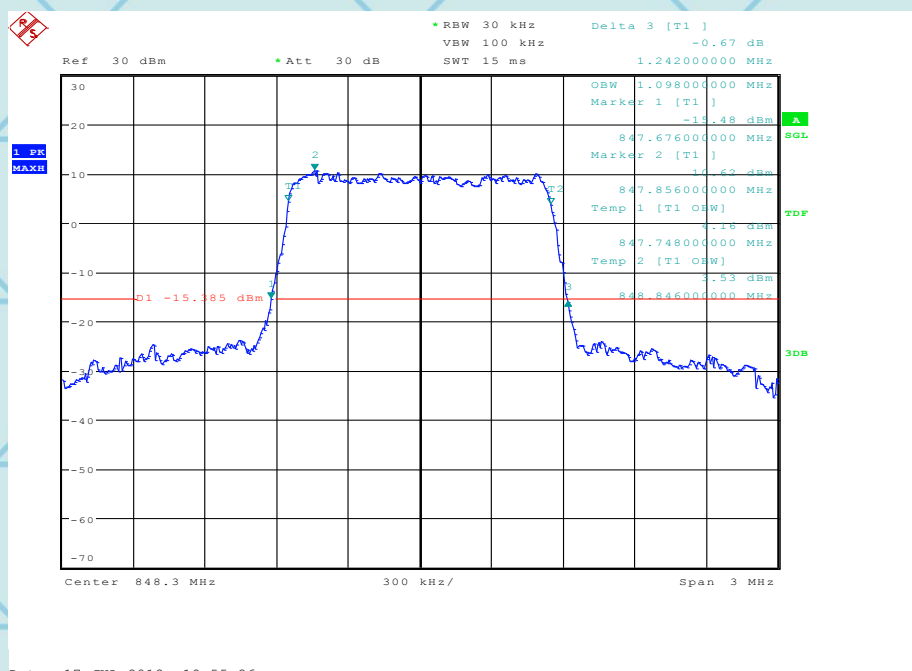
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BW1.4MHz-836.5MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



Date: 17.JUL.2018 19:56:47

BW1.4MHz-848.3MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.242MHz



Date: 17.JUL.2018 19:55:26



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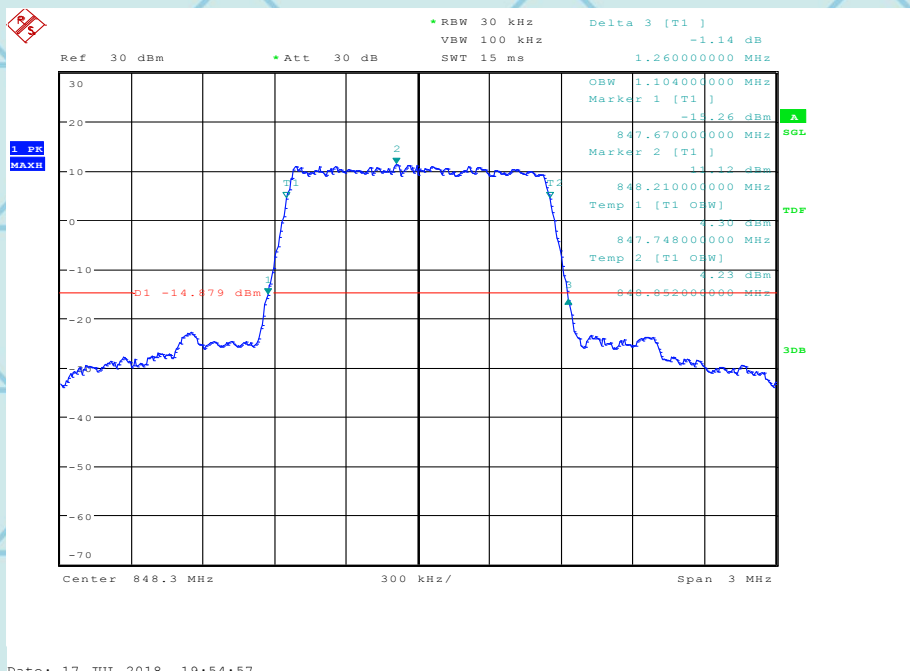
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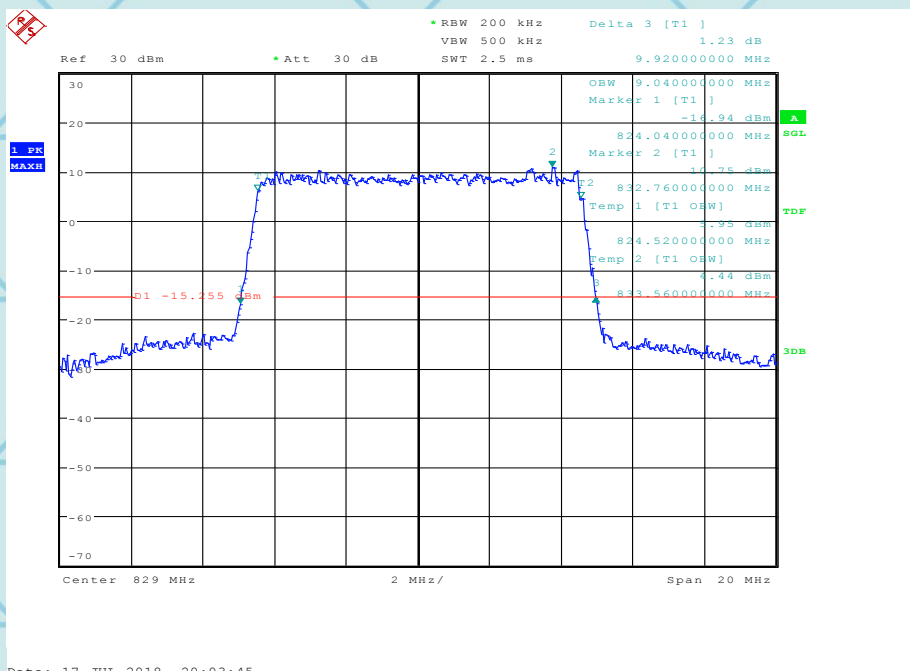
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BW1.4MHz-848.3MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.26MHz



Date: 17.JUL.2018 19:54:57

BW10MHz-829MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.92MHz



Date: 17.JUL.2018 20:03:45



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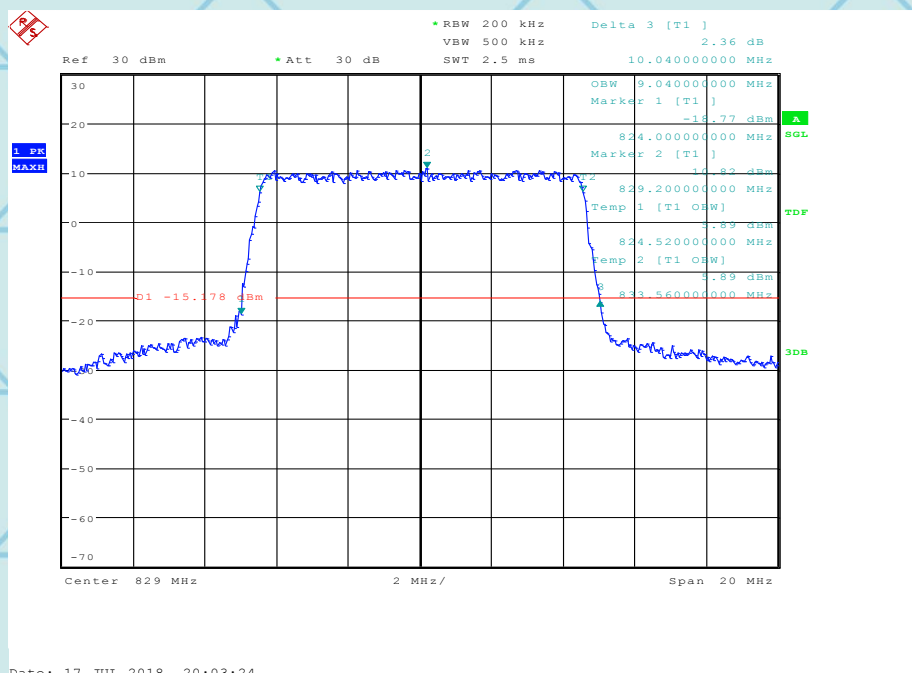
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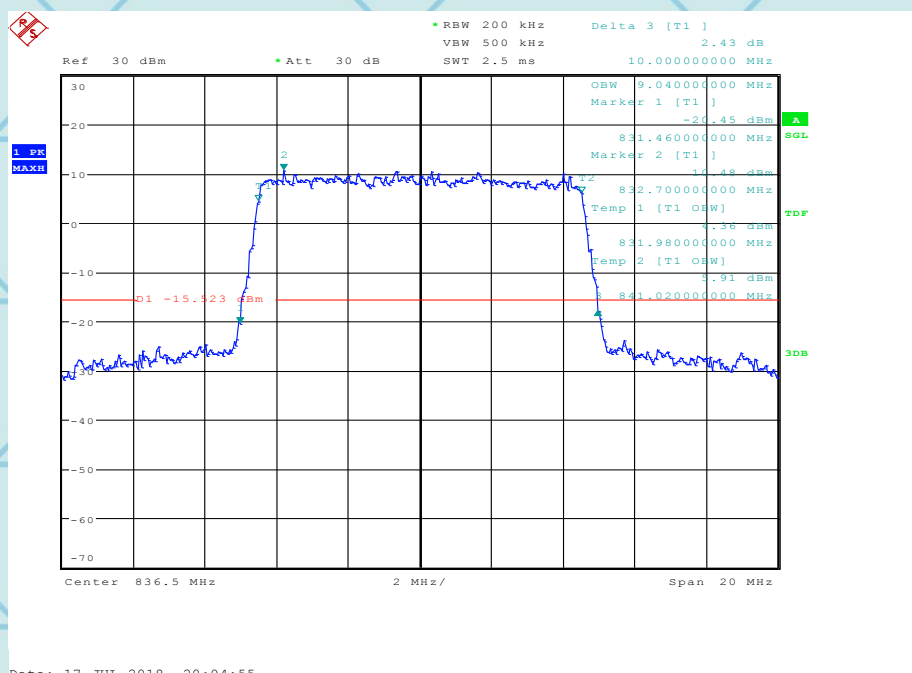
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BW10MHz-829MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_10.04MHz



Date: 17.JUL.2018 20:03:24

BW10MHz-836.5MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_10.MHz



Date: 17.JUL.2018 20:04:55



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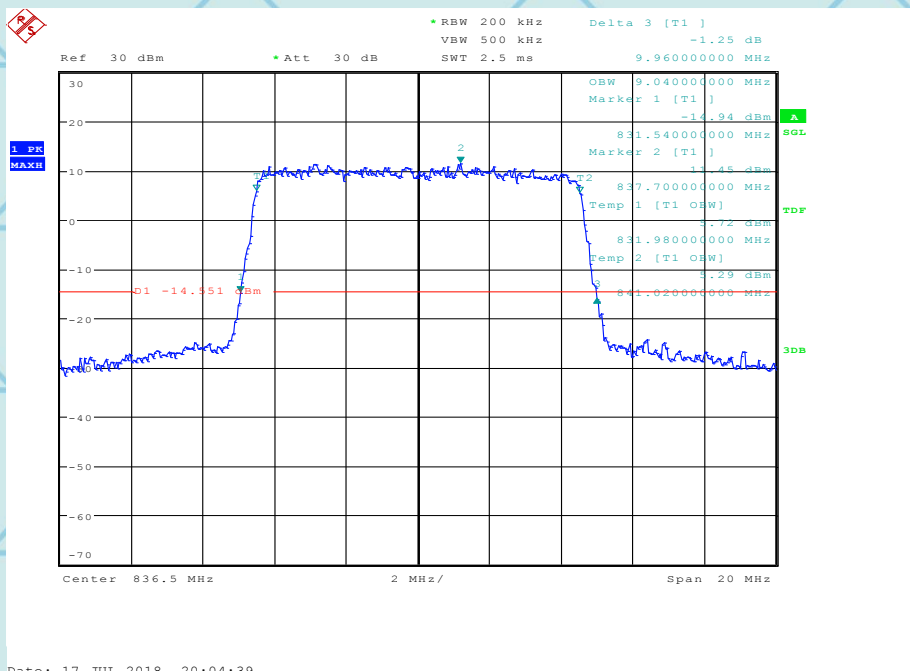
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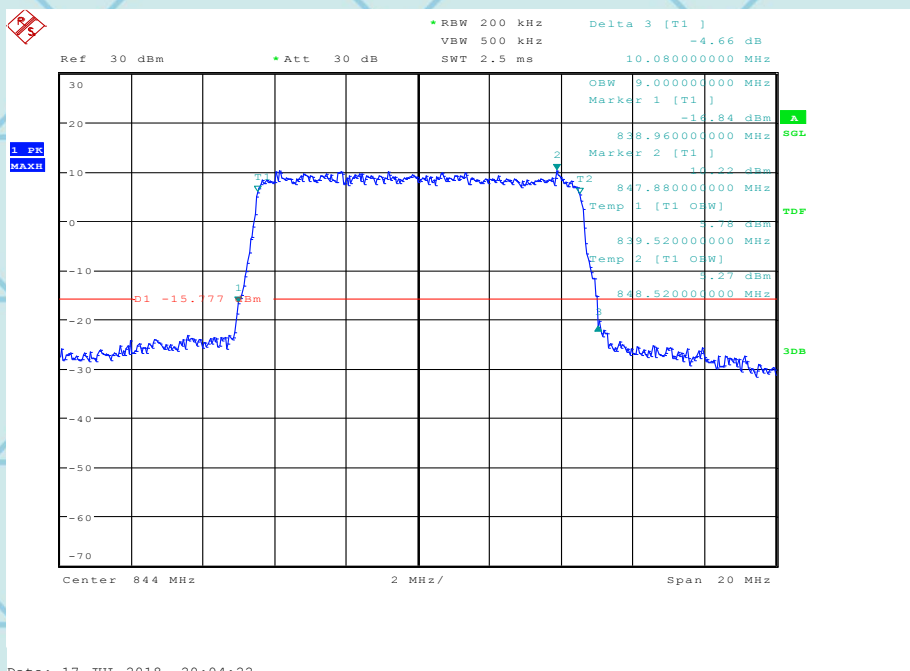
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BW10MHz-836.5MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



Date: 17.JUL.2018 20:04:39

BW10MHz-844MHz,Q16-50RB_LOW@OBW_9.9MHz@26dB_10.08MHz



Date: 17.JUL.2018 20:04:22



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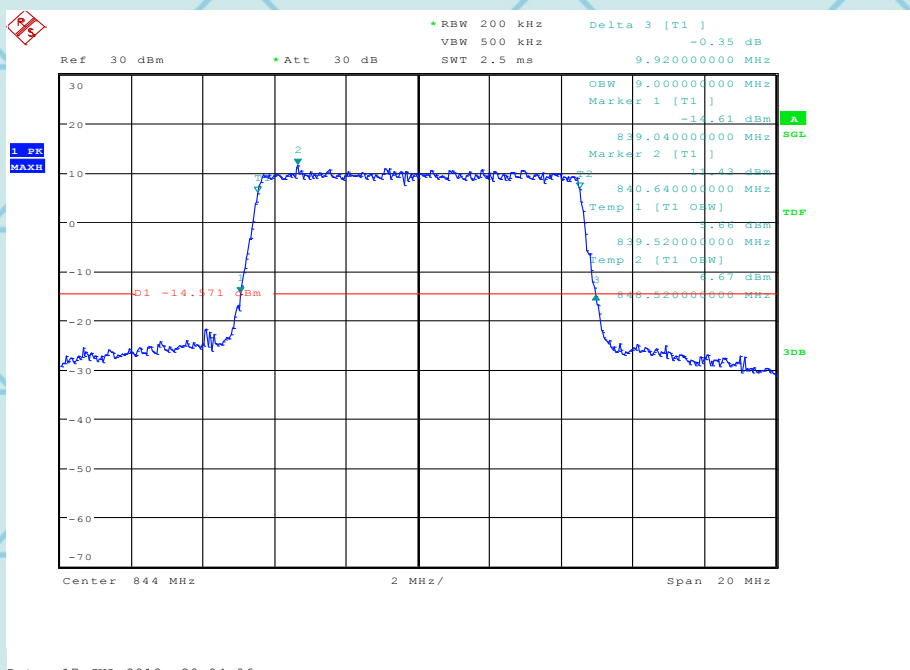
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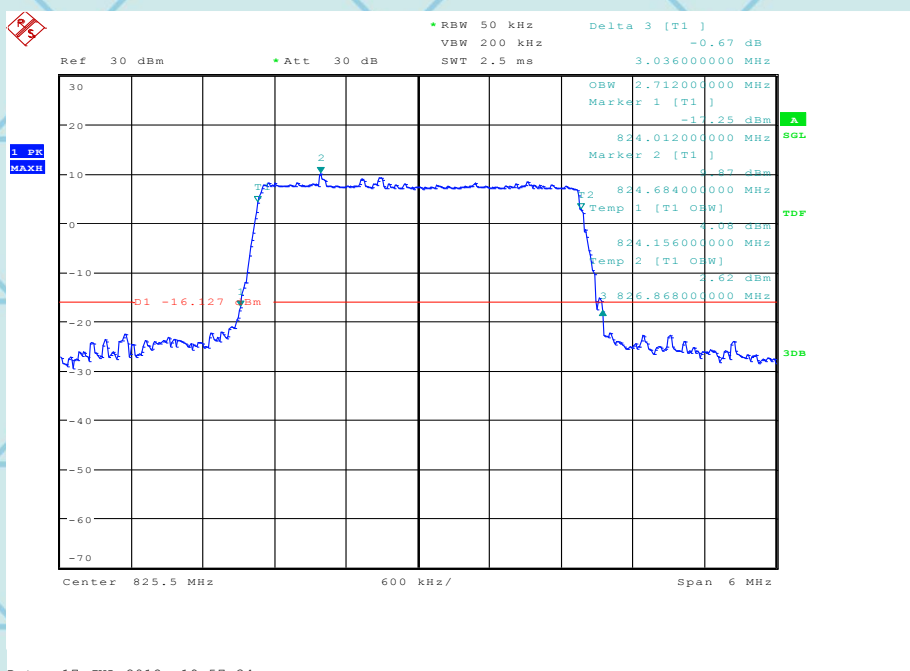
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BW10MHz-844MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



Date: 17.JUL.2018 20:04:06

BW3MHz-825.5MHz,Q16-15RB_LOW@OBW_2.712MHz@26dB_3.036MHz



Date: 17.JUL.2018 19:57:34



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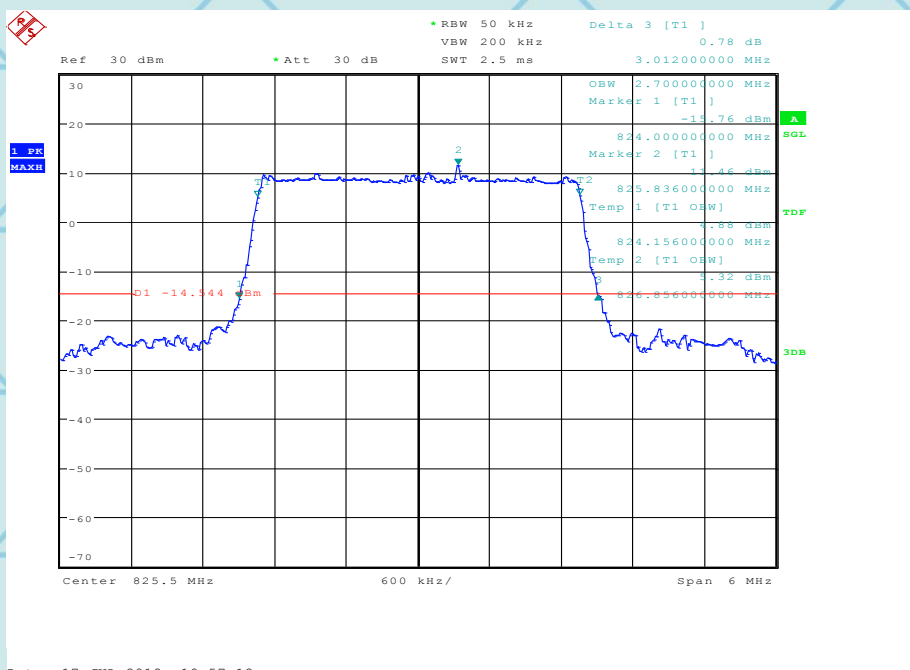
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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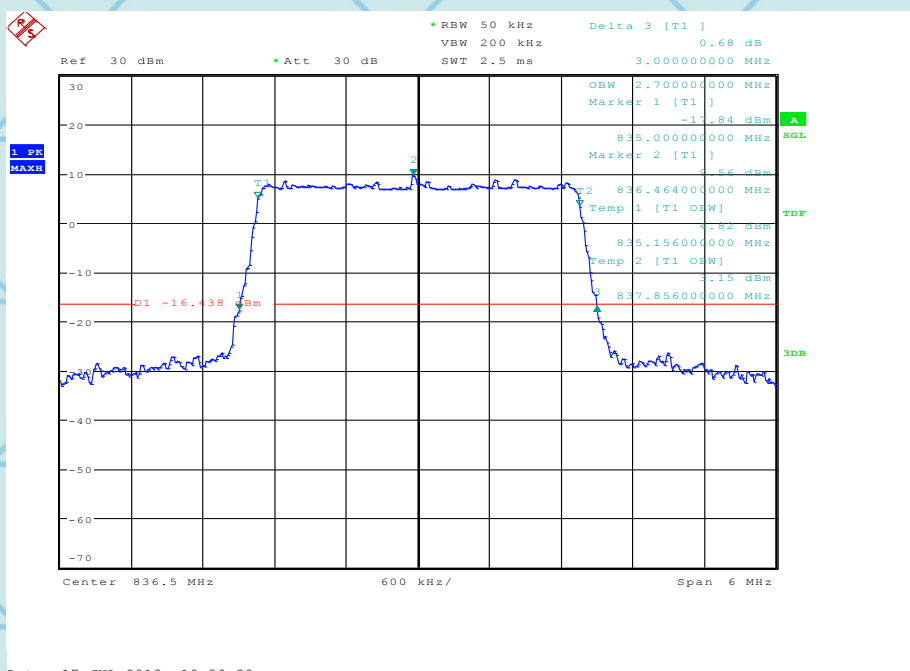
For Question,
Please Contact with WSCT
www.wsct-cert.com

BW3MHz-825.5MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.012MHz



Date: 17.JUL.2018 19:57:12

BW3MHz-836.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



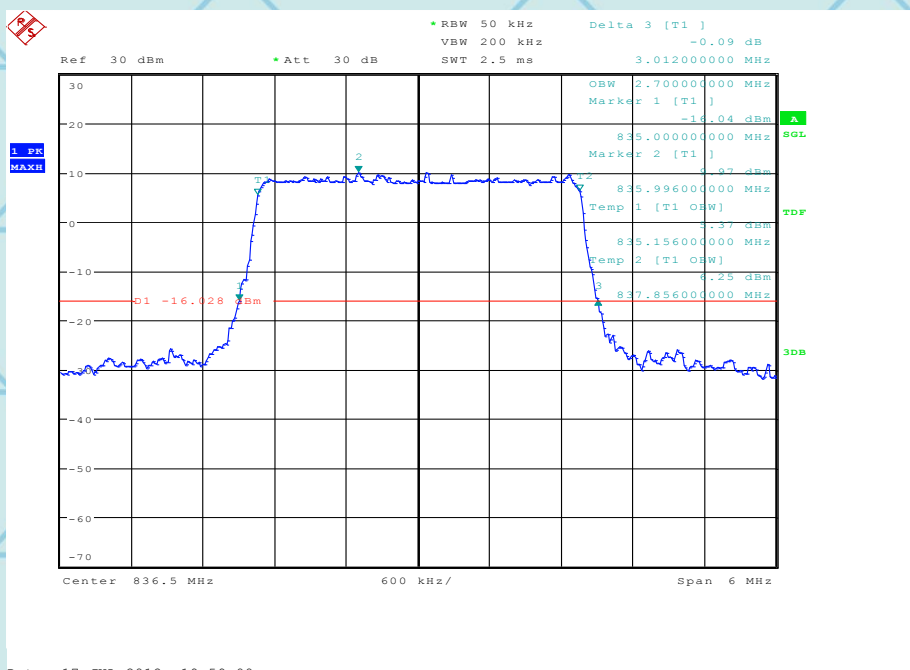
Date: 17.JUL.2018 19:59:32





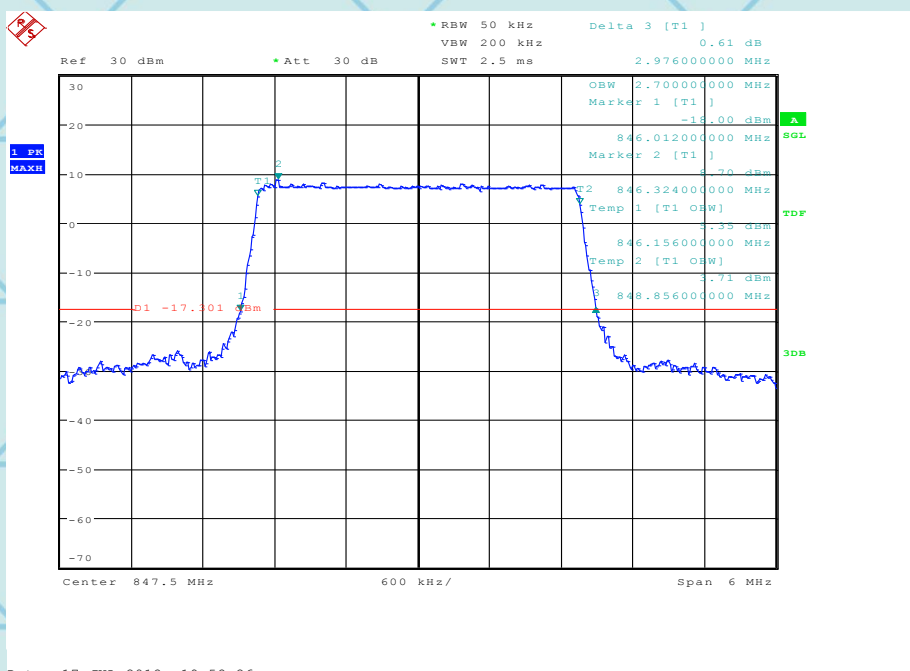
For Question,
Please Contact with WSCT
www.wsct-cert.com

BW3MHz-836.5MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.012MHz



Date: 17.JUL.2018 19:59:00

BW3MHz-847.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_2.976MHz



Date: 17.JUL.2018 19:58:26



世标检测认证股份

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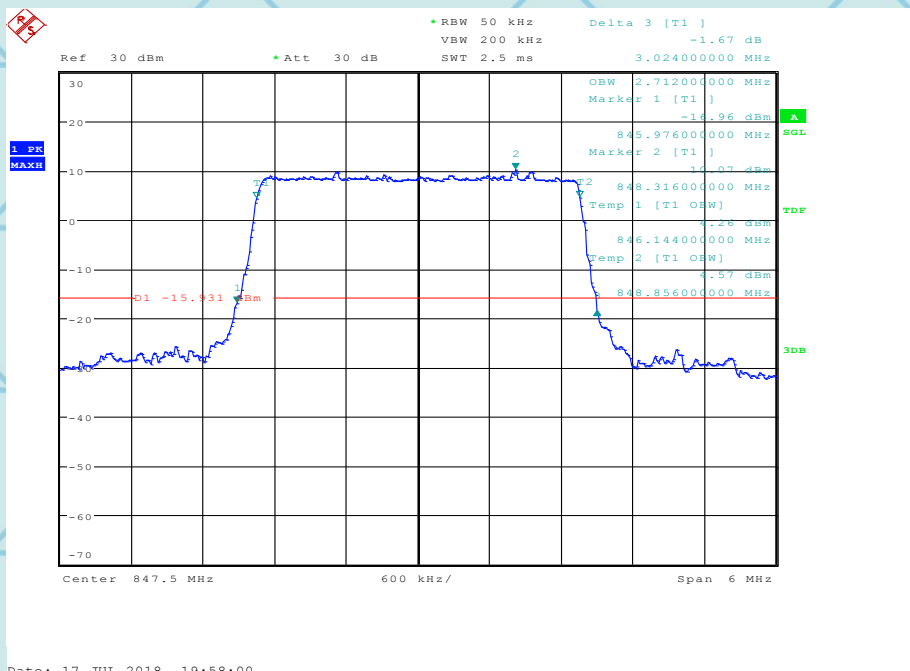
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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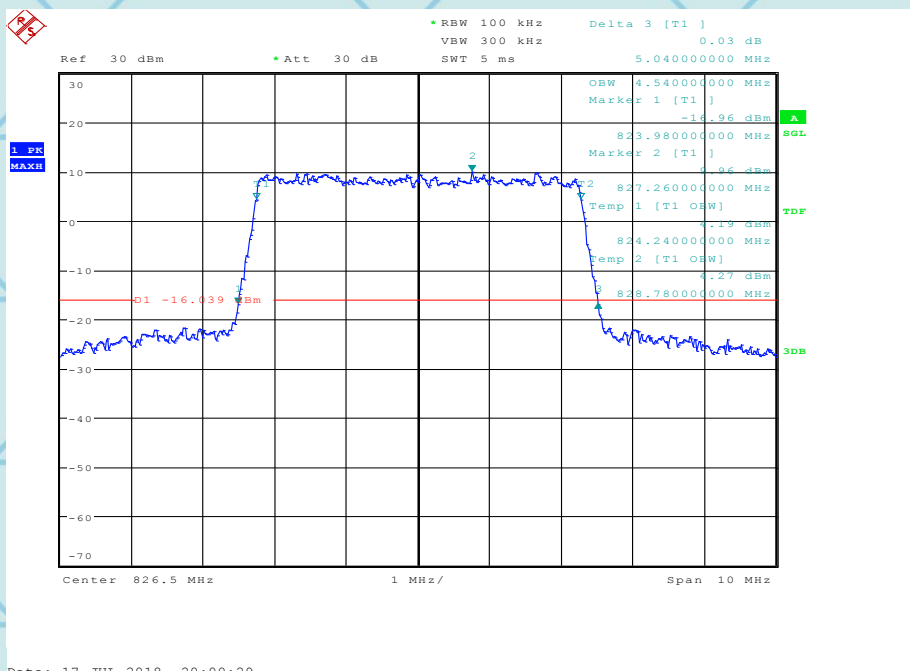
For Question,
Please Contact with WSCT
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BW3MHz-847.5MHz,QPSK-15RB_LOW@OBW_2.712MHz@26dB_3.024MHz



Date: 17.JUL.2018 19:58:00

BW5MHz-826.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_5.04MHz



Date: 17.JUL.2018 20:00:29



世标检测认证股份

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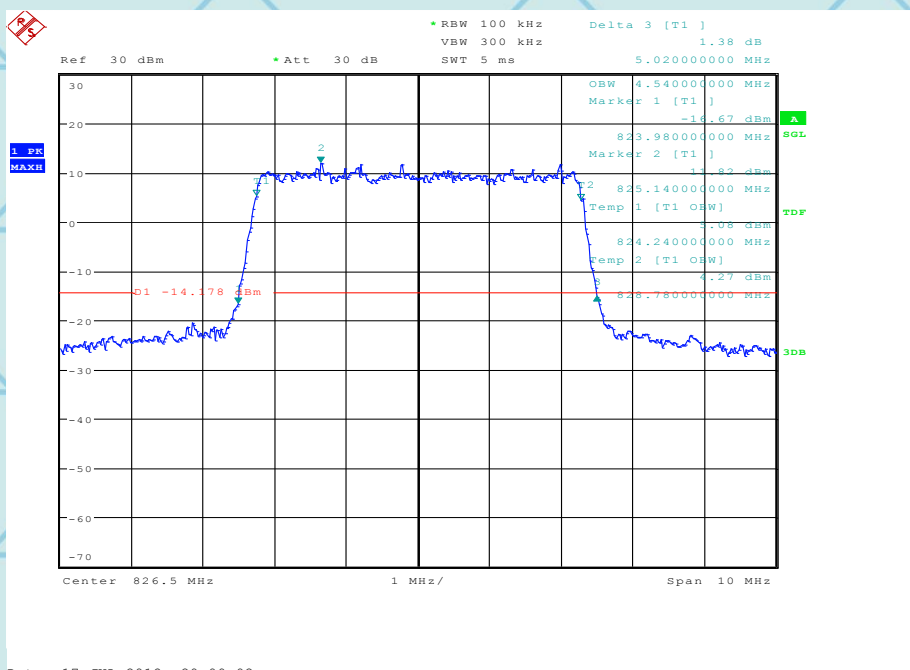
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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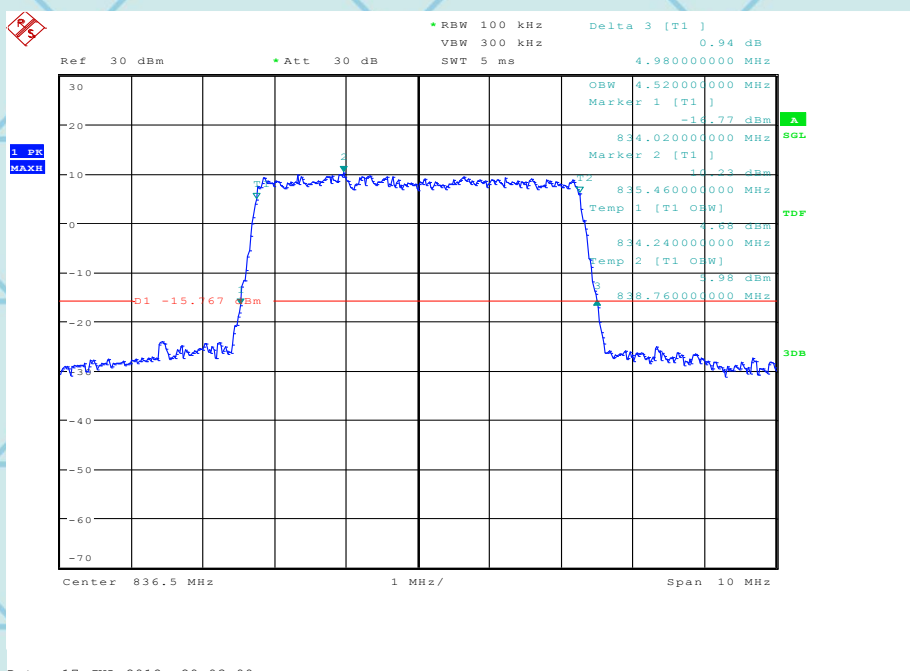
For Question,
Please Contact with WSCT
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BW5MHz-826.5MHz,QPSK-25RB_LOW@OBW_4.54MHz@26dB_5.02MHz



Date: 17.JUL.2018 20:00:02

BW5MHz-836.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



Date: 17.JUL.2018 20:03:00



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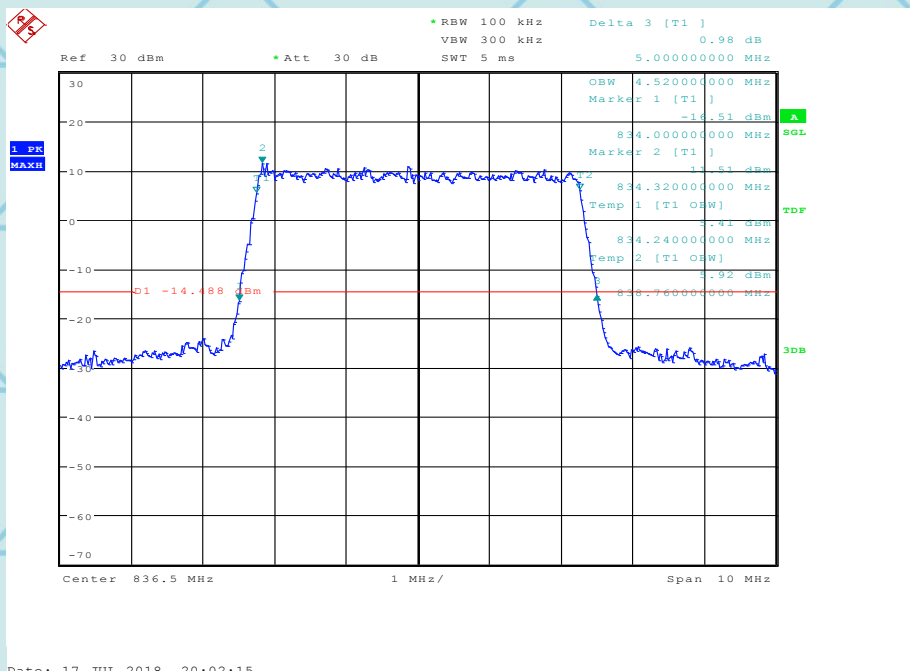
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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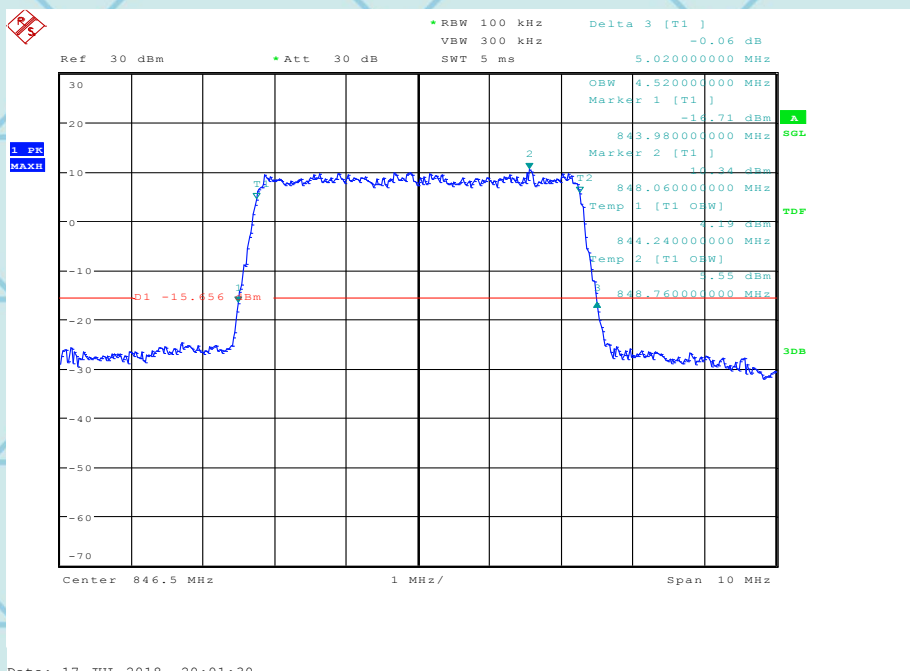
For Question,
Please Contact with WSCT
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BW5MHz-836.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



Date: 17.JUL.2018 20:02:15

BW5MHz-846.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



Date: 17.JUL.2018 20:01:30



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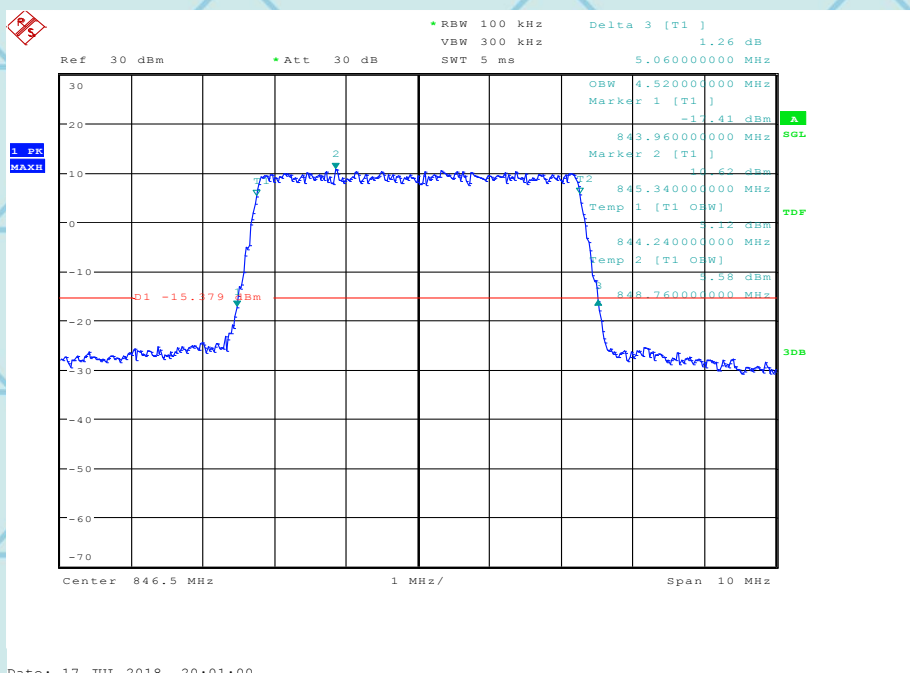
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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BW5MHz-846.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.06MHz



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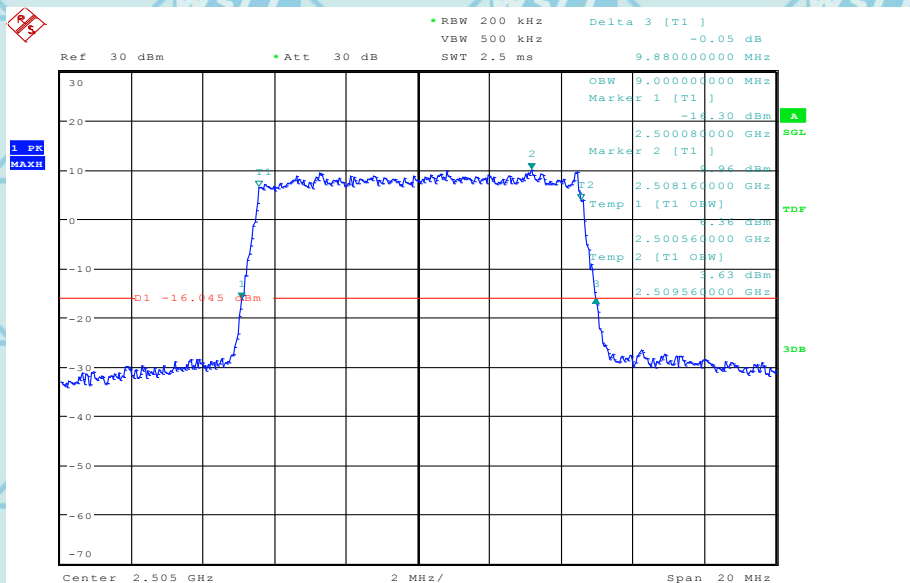
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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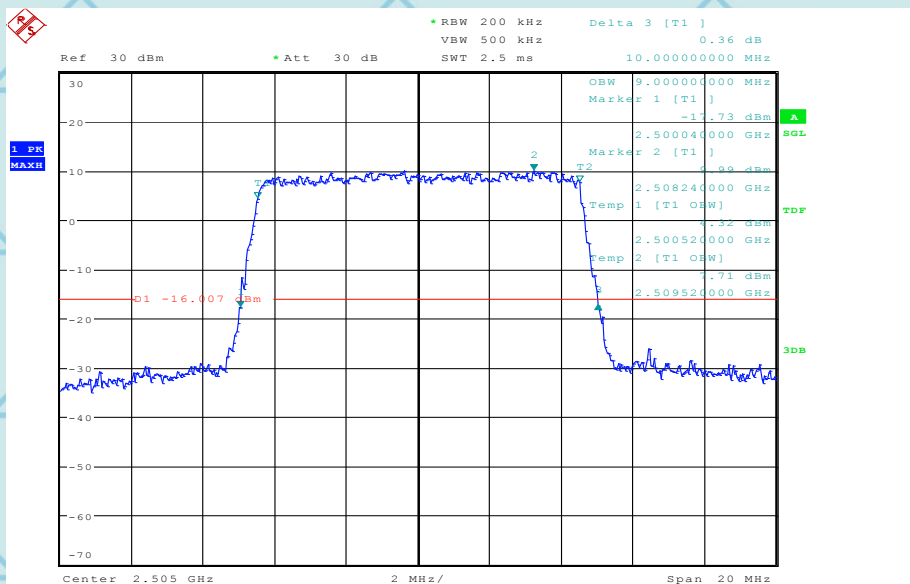
For Question,
Please Contact with WSCT
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BAND 7@Bandwidth
BW10MHz-2505MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.88MHz



Date: 17.JUL.2018 20:49:52

BW10MHz-2505MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_10.MHz



Date: 17.JUL.2018 20:49:31



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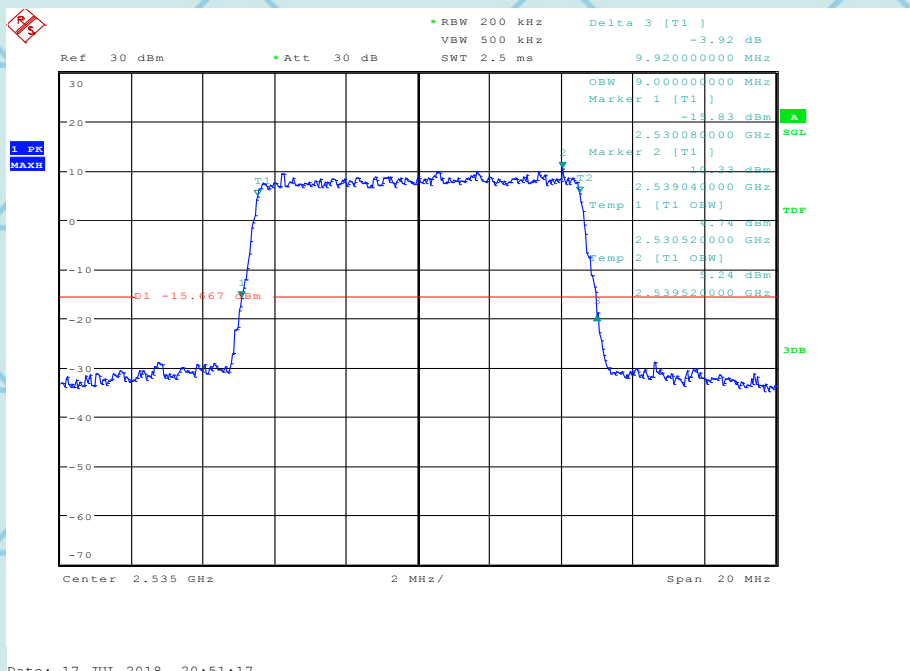
ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http:www.wsct-cert.com

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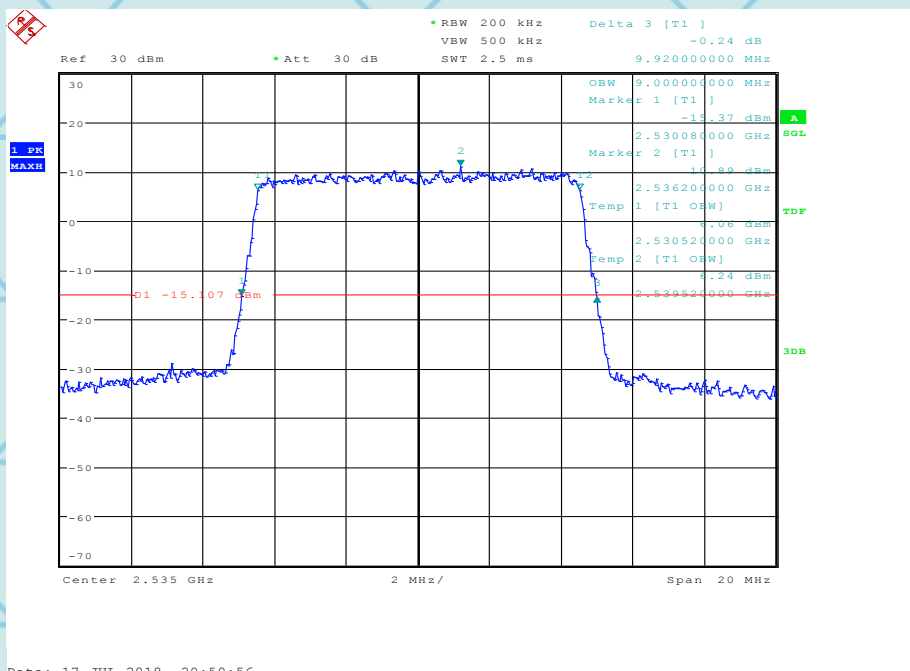


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BW10MHz-2535MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



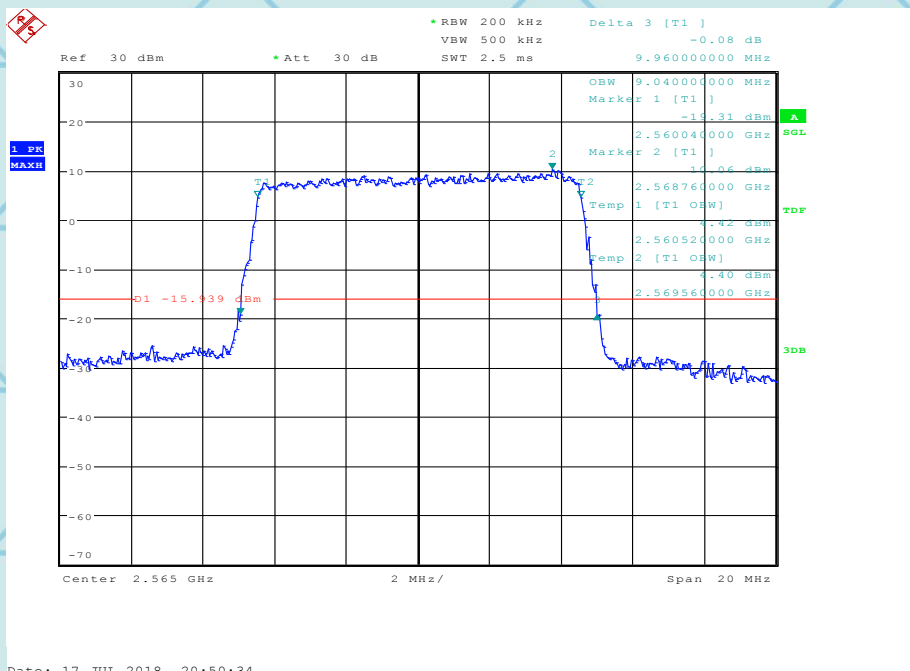
BW10MHz-2535MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



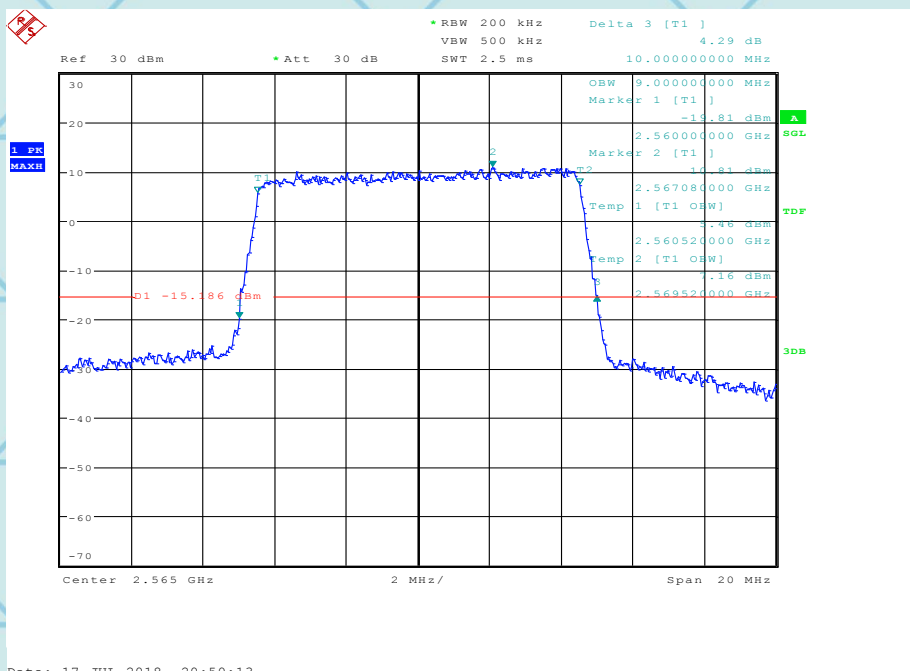


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BW10MHz-2565MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



BW10MHz-2565MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_10.MHz



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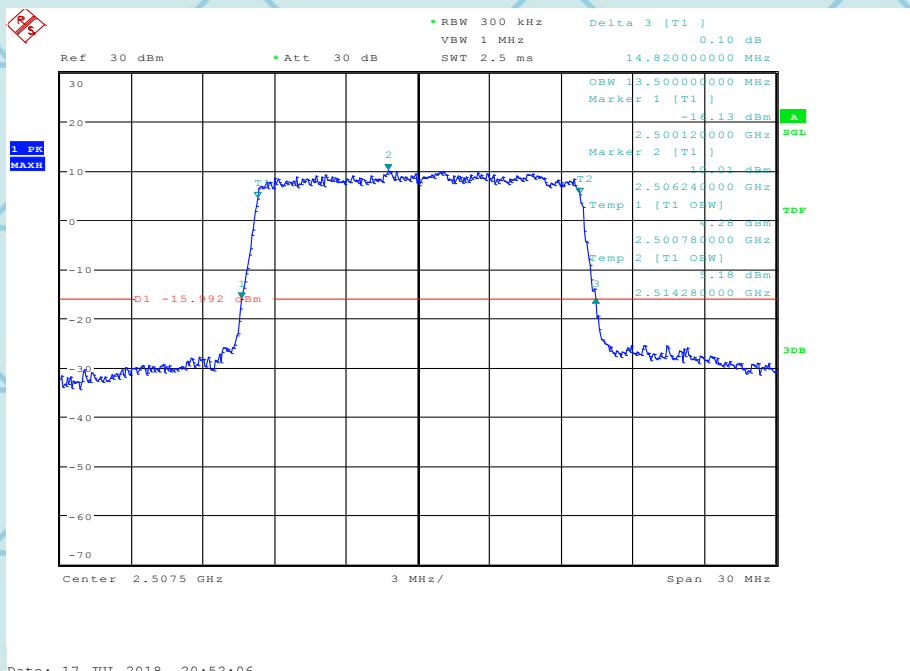
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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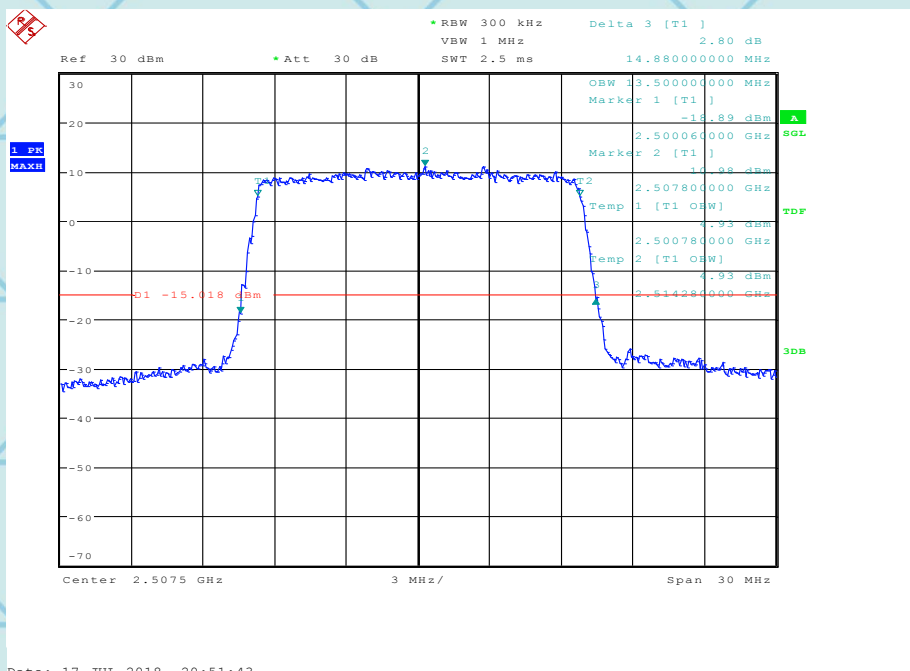
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Please Contact with WSCT
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BW15MHz-2507.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.82MHz



Date: 17.JUL.2018 20:52:06

BW15MHz-2507.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



Date: 17.JUL.2018 20:51:43



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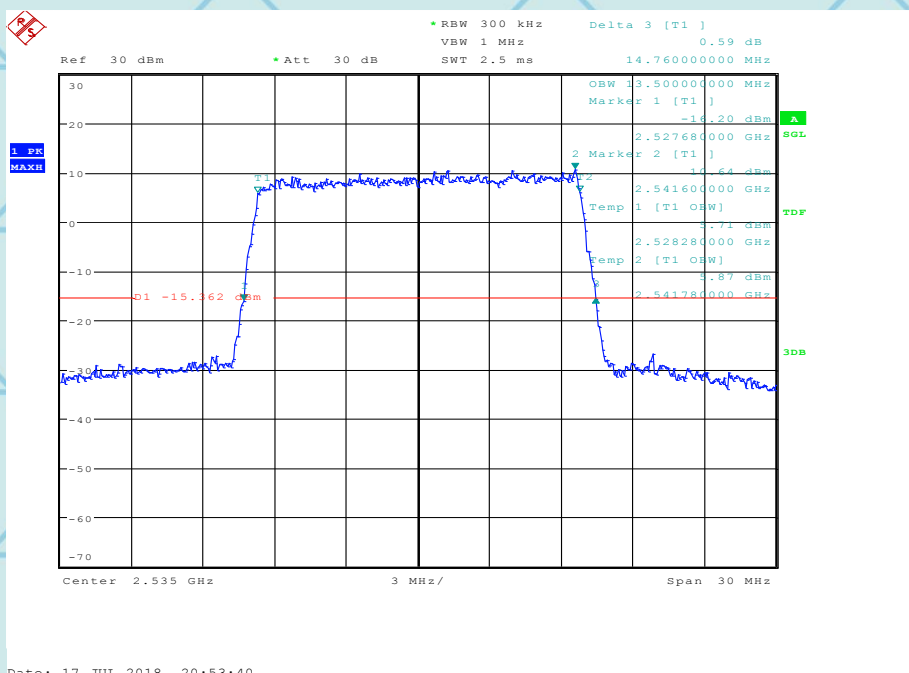
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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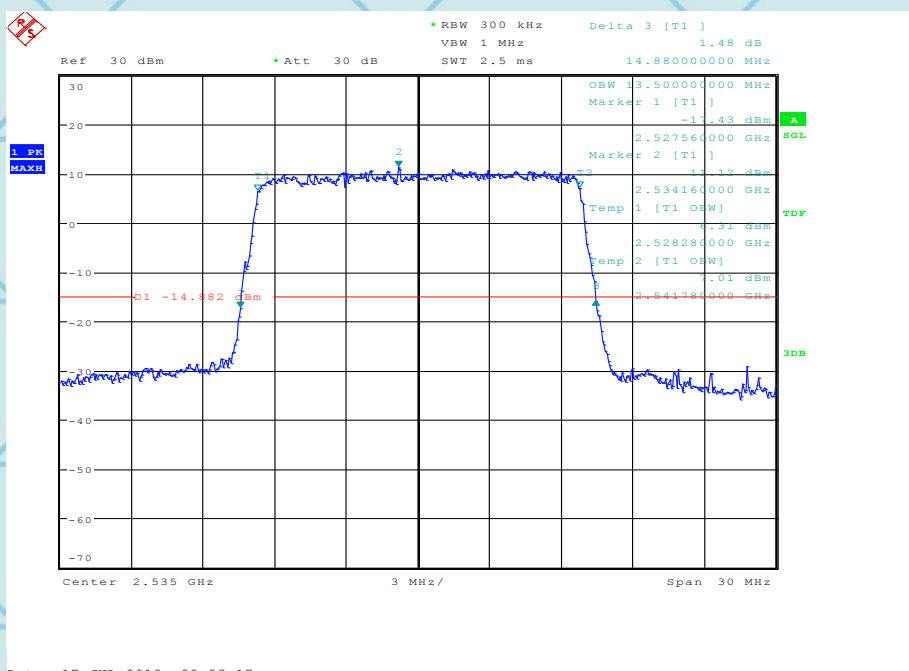
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BW15MHz-2535MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.76MHz



Date: 17.JUL.2018 20:53:40

BW15MHz-2535MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



Date: 17.JUL.2018 20:53:17



世标检测认证股份

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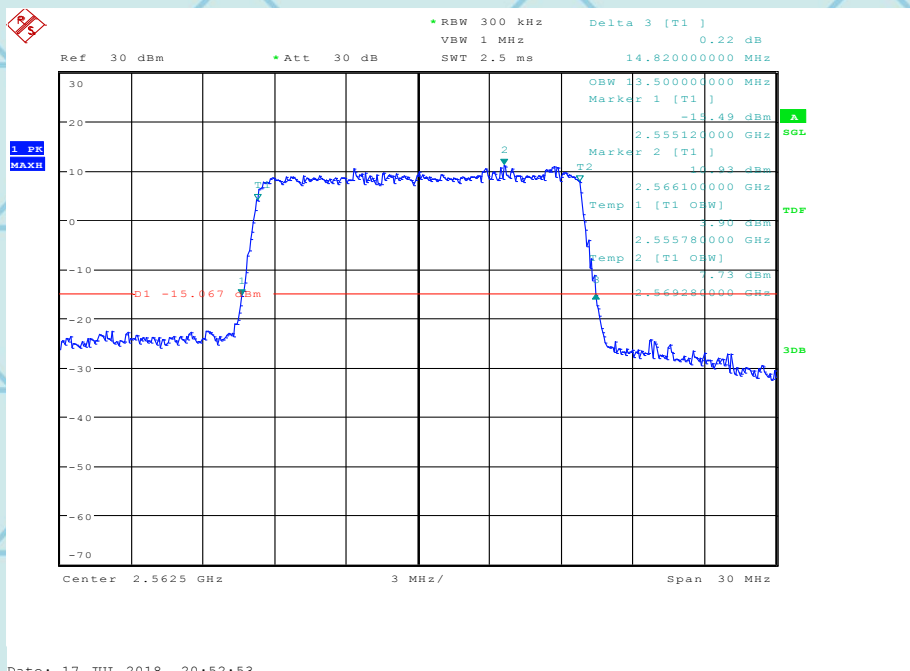
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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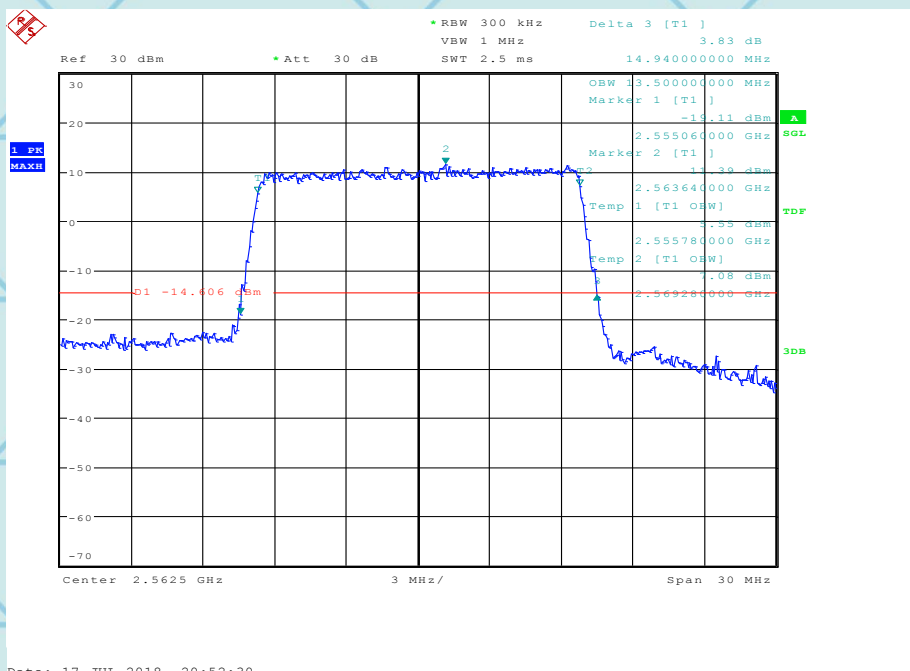
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Please Contact with WSCT
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BW15MHz-2562.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.82MHz



Date: 17.JUL.2018 20:52:53

BW15MHz-2562.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.94MHz



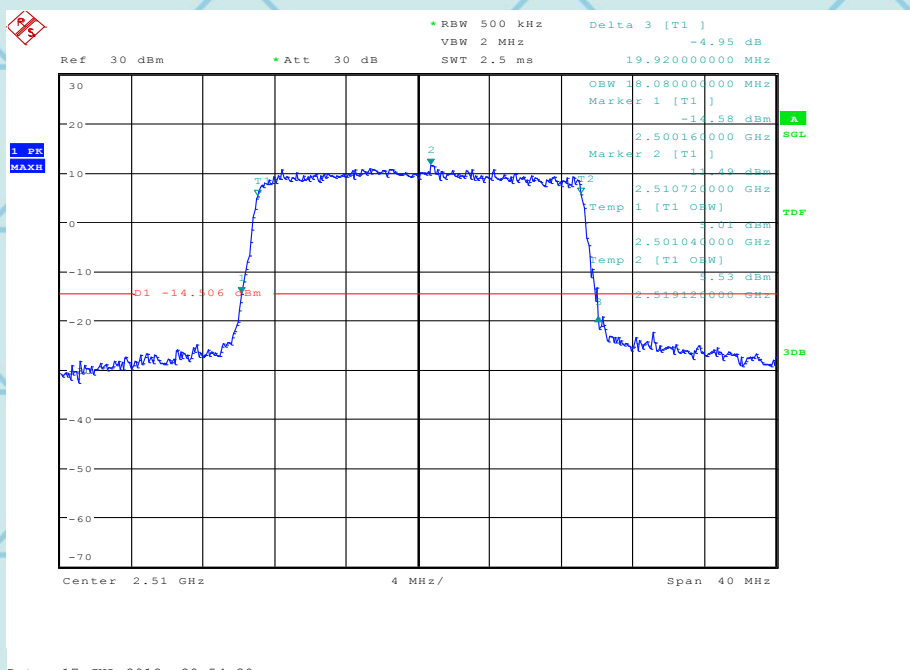
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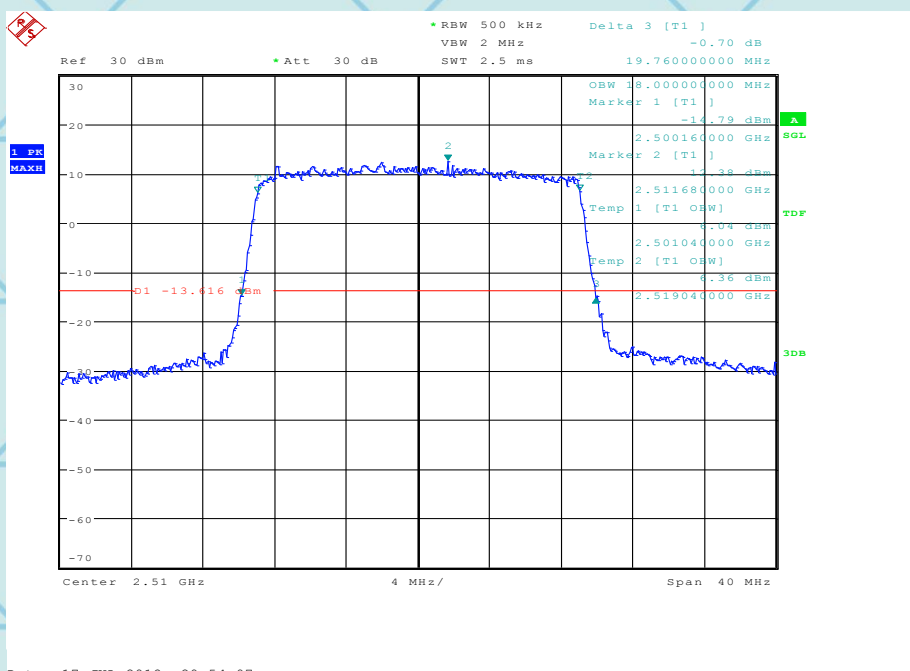
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BW20MHz-2510MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 20:54:30

BW20MHz-2510MHz,QPSK-100RB_LOW@OBW_18.MHz@26dB_19.76MHz



Date: 17.JUL.2018 20:54:07



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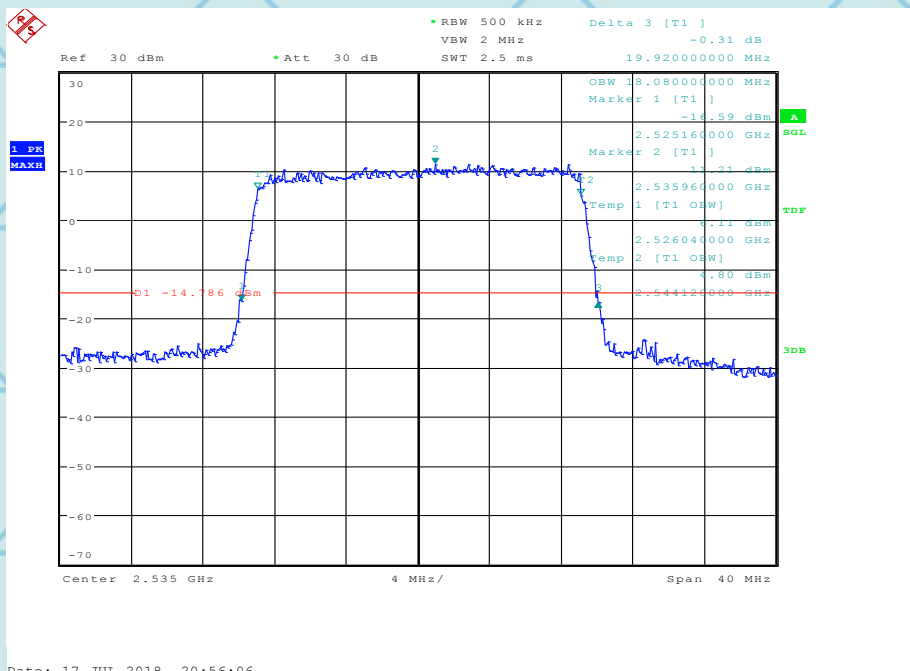
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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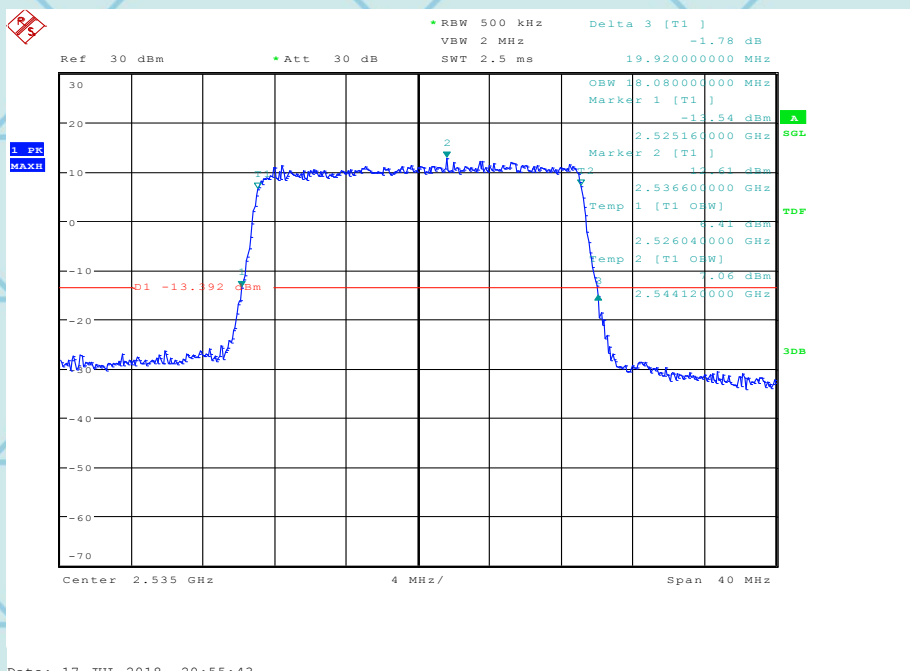
For Question,
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BW20MHz-2535MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 20:56:06

BW20MHz-2535MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



Date: 17.JUL.2018 20:55:43



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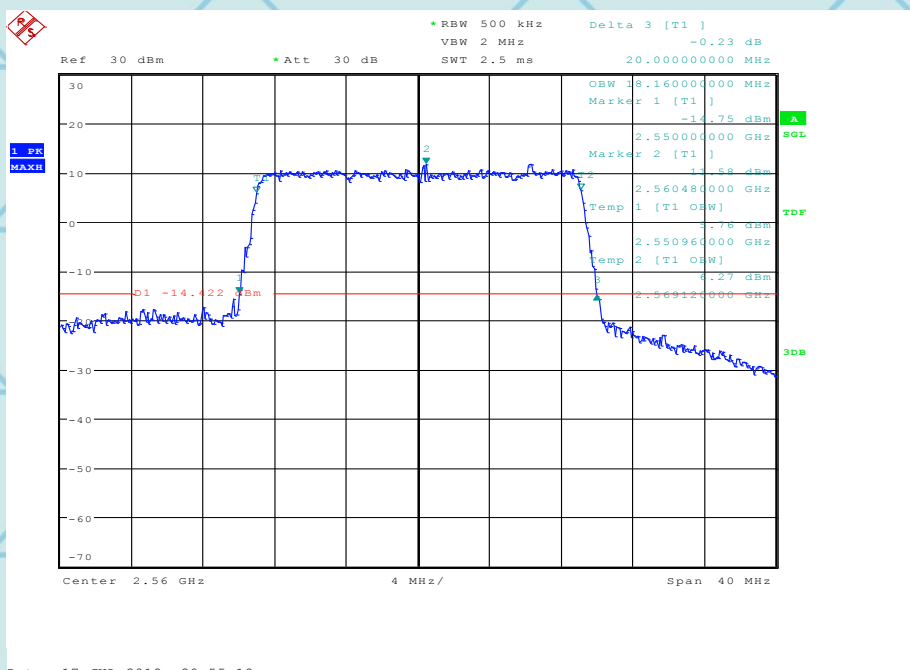
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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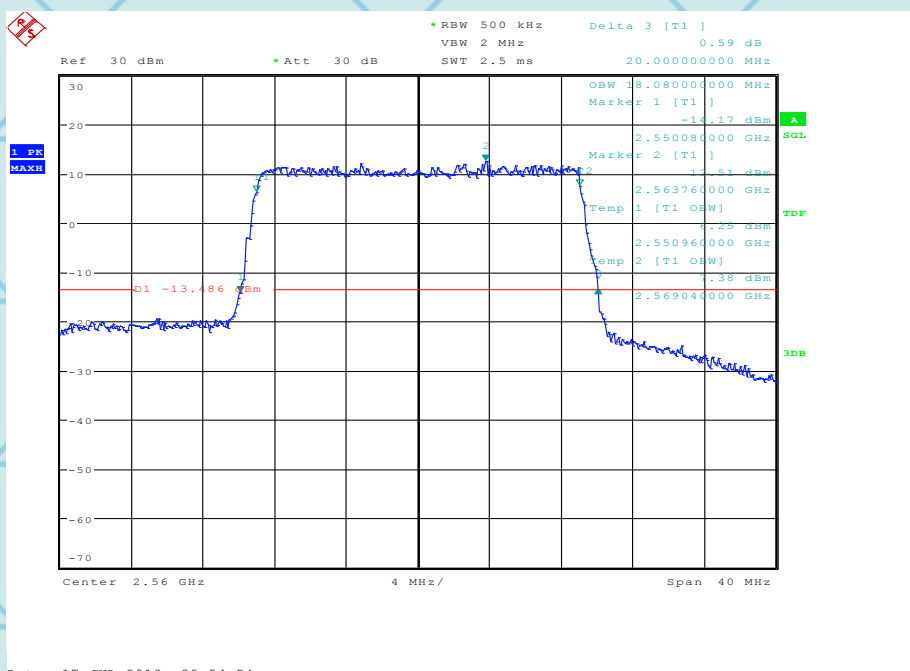
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BW20MHz-2560MHz,Q16-100RB_LOW@OBW_18.16MHz@26dB_20.MHz



Date: 17.JUL.2018 20:55:18

BW20MHz-2560MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.MHz



Date: 17.JUL.2018 20:54:54



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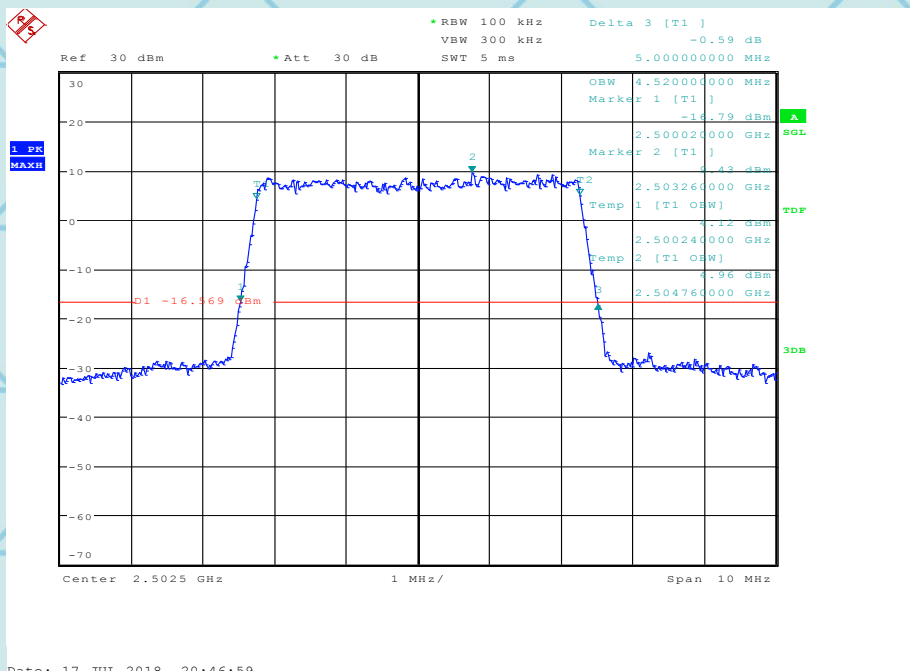
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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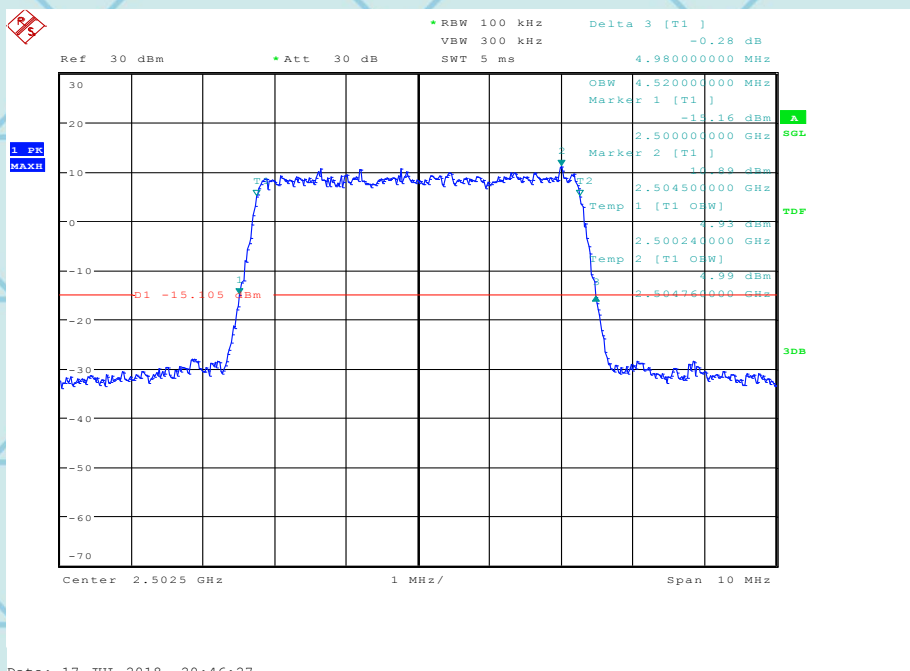


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BW5MHz-2502.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



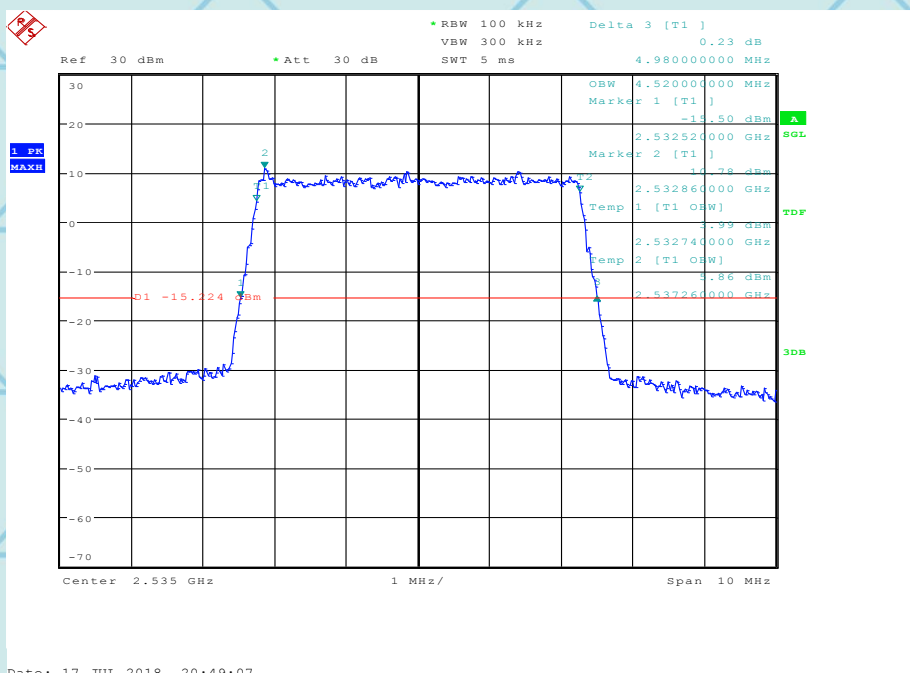
BW5MHz-2502.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz





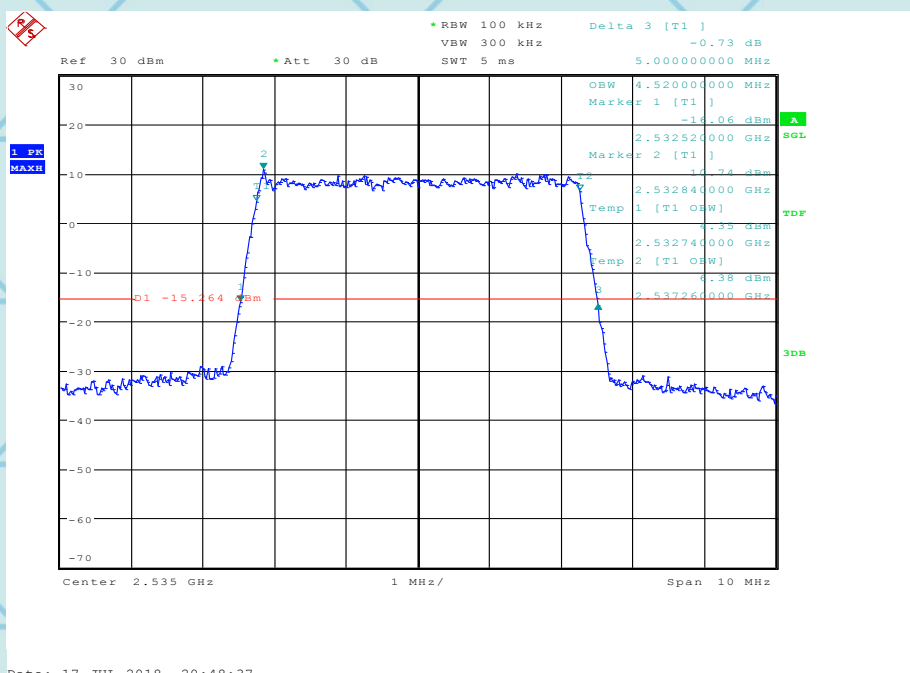
For Question,
Please Contact with WSCT
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BW5MHz-2535MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



Date: 17.JUL.2018 20:49:07

BW5MHz-2535MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



Date: 17.JUL.2018 20:48:37



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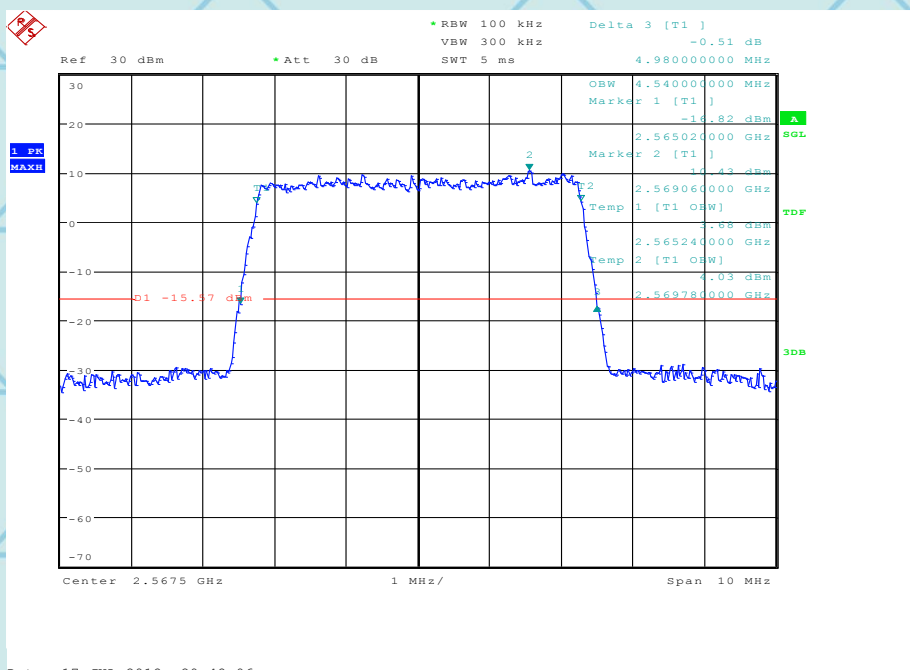
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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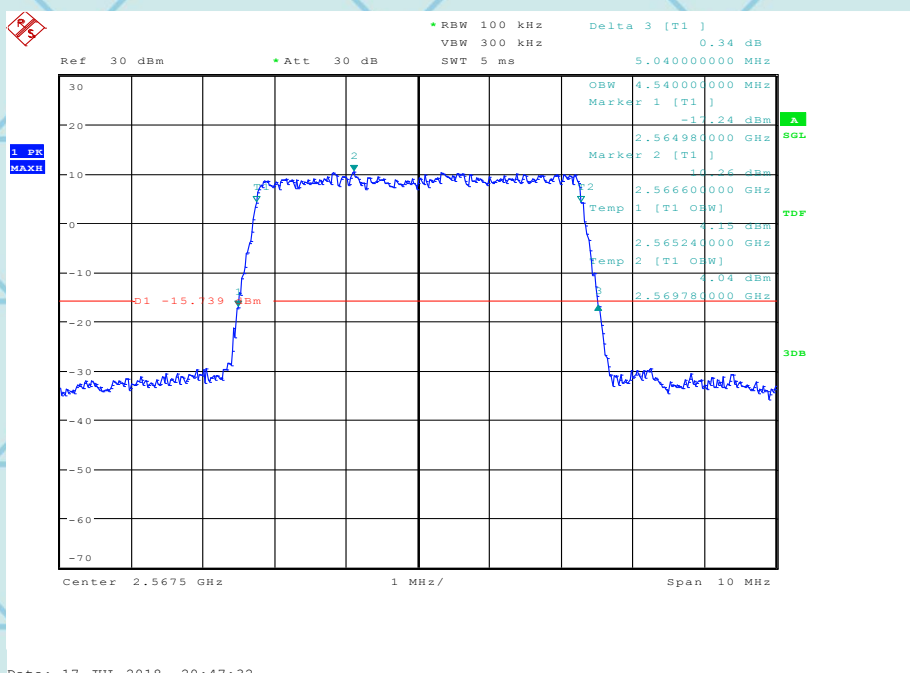


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BW5MHz-2567.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_4.98MHz



BW5MHz-2567.5MHz,QPSK-25RB_LOW@OBW_4.54MHz@26dB_5.04MHz





9. BAND EDGE

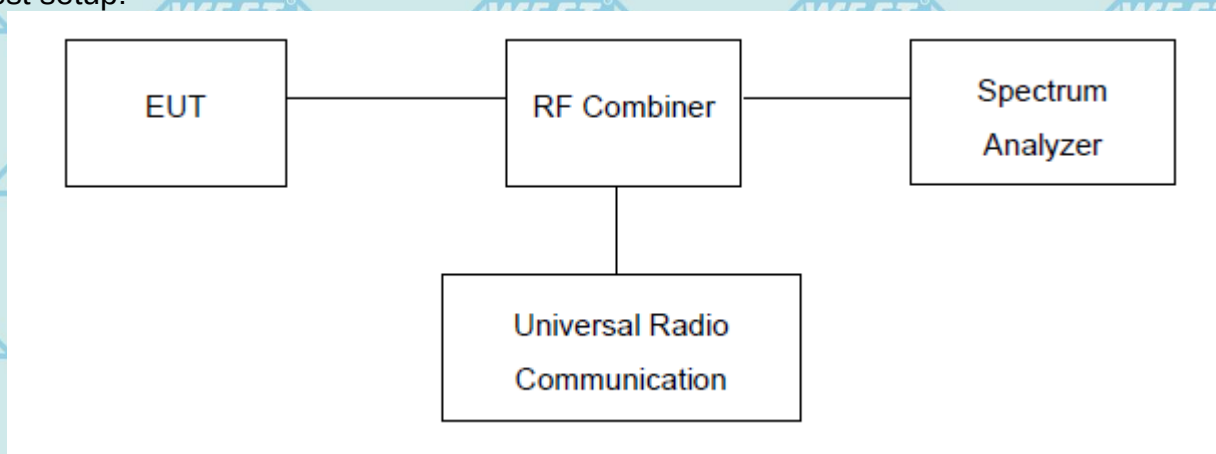
Test Limit:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified. See section 4.

Test procedure:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

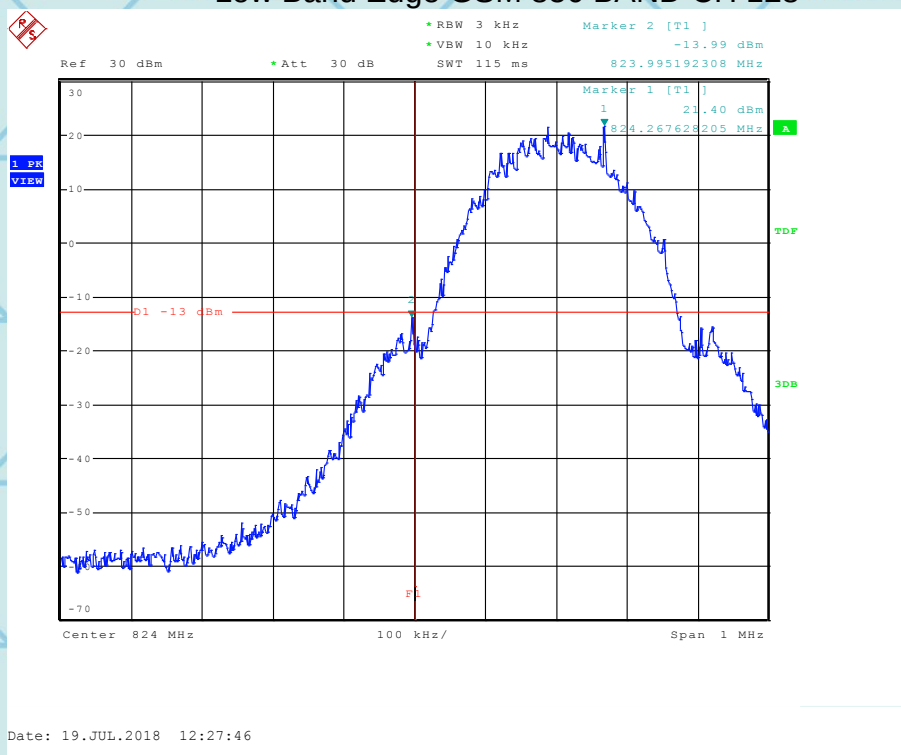
Test setup:



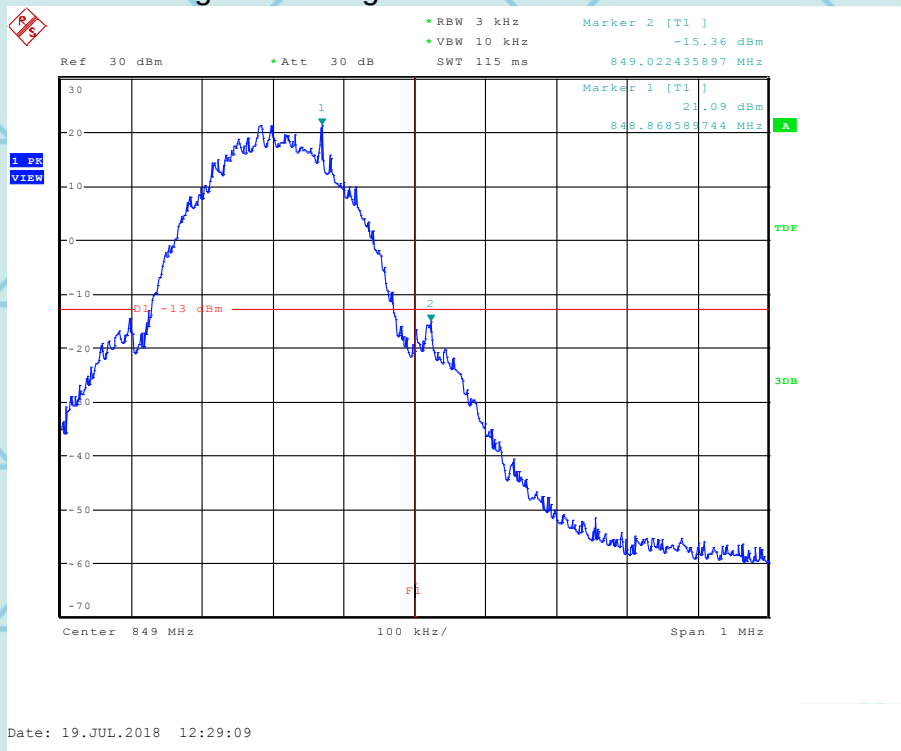


Measurement Result Test Plot(s)

Low Band Edge GSM 850 BAND CH 128



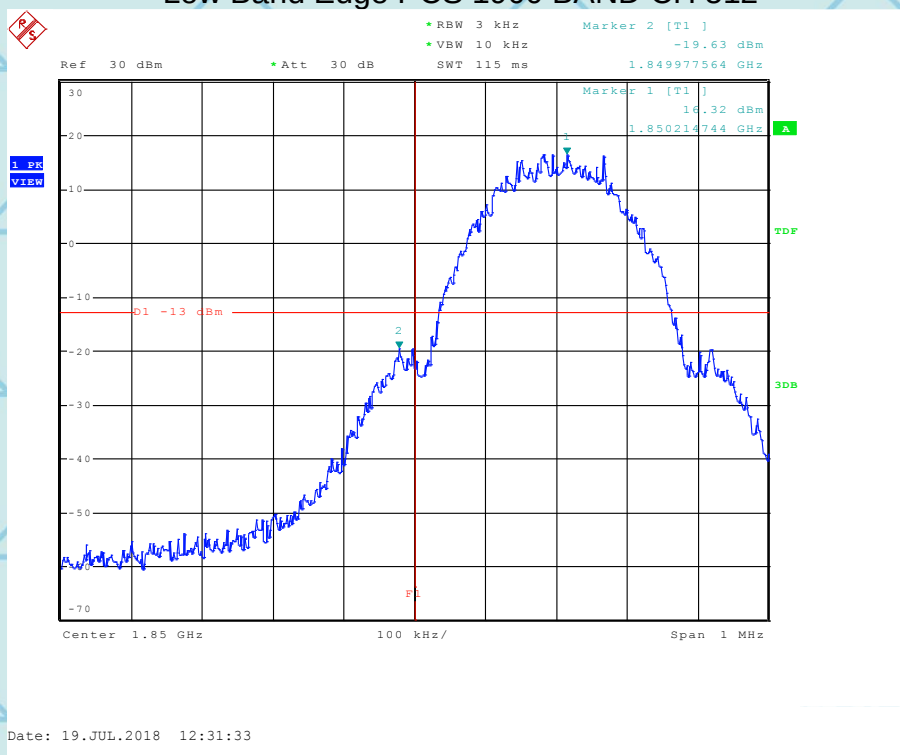
High Band Edge GSM 850 BAND CH 251



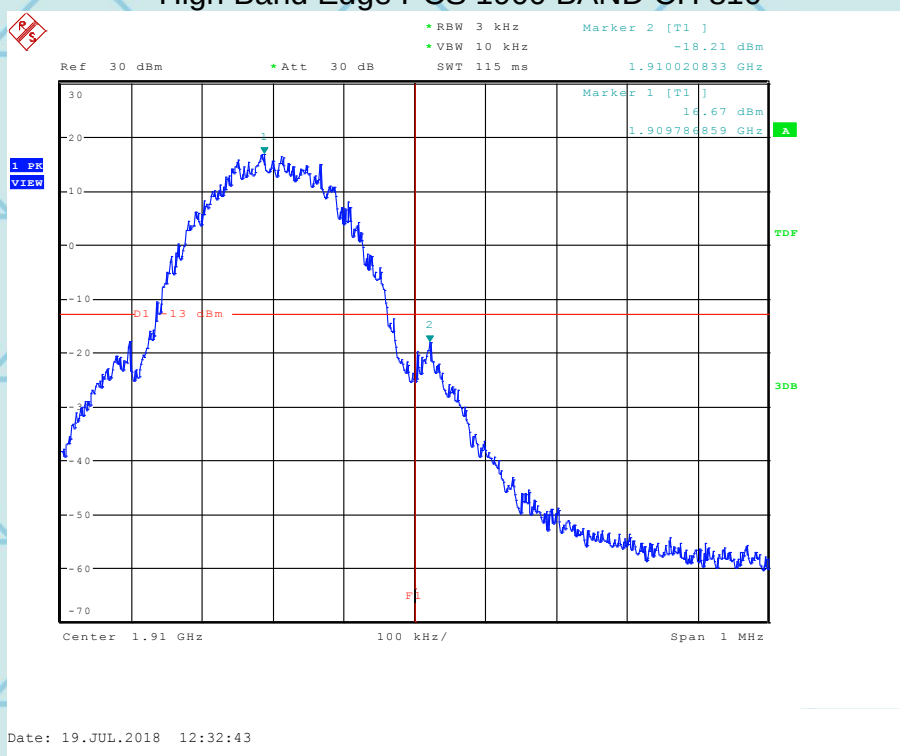


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Low Band Edge PCS 1900 BAND CH 512



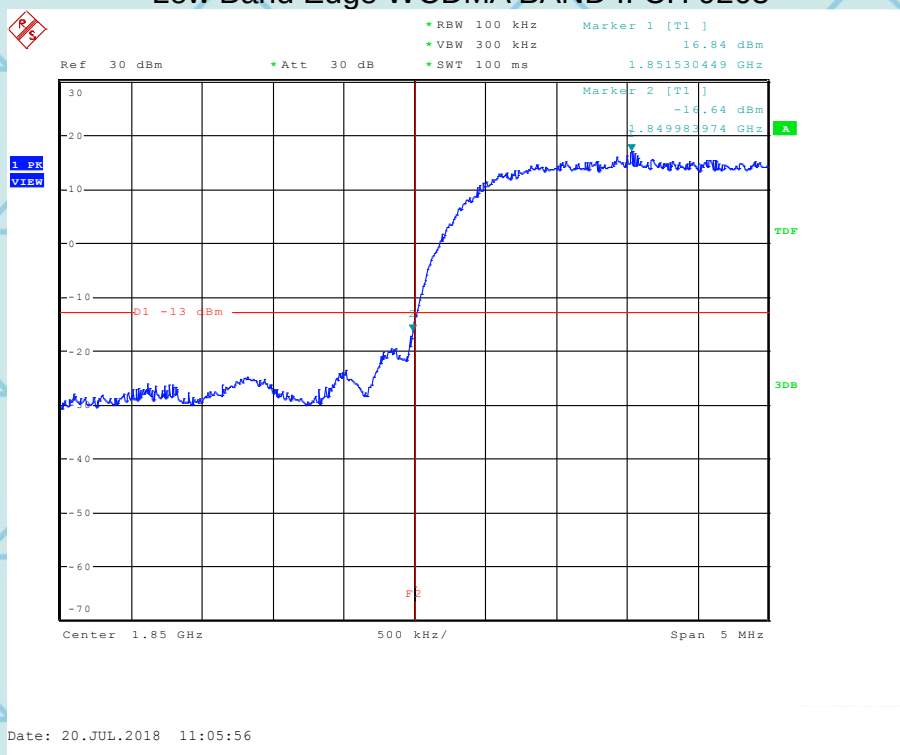
High Band Edge PCS 1900 BAND CH 810



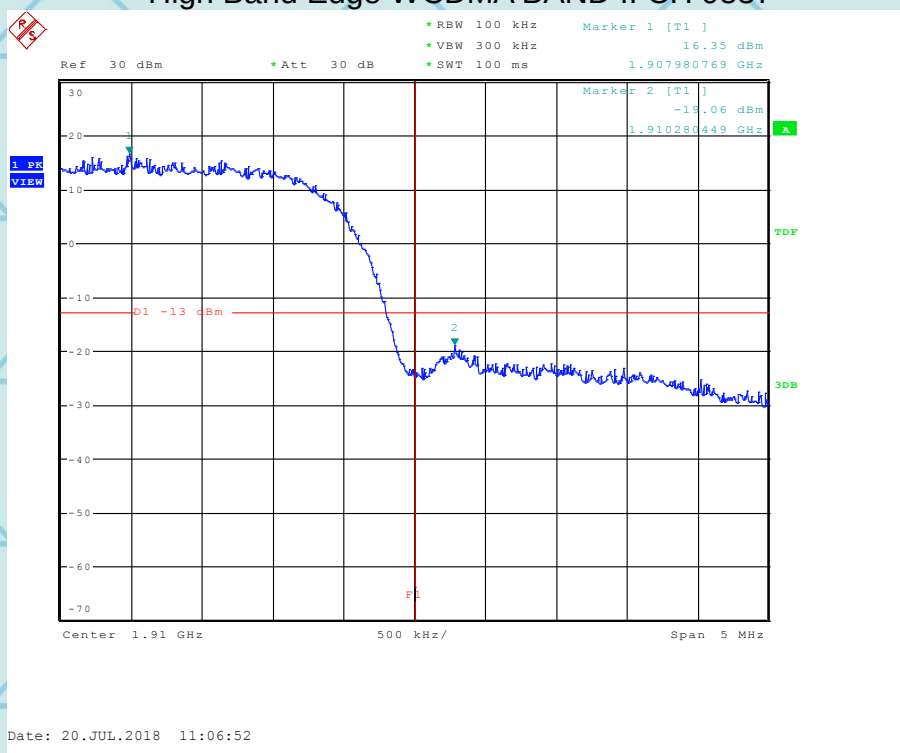


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Low Band Edge WCDMA BAND II CH 9263



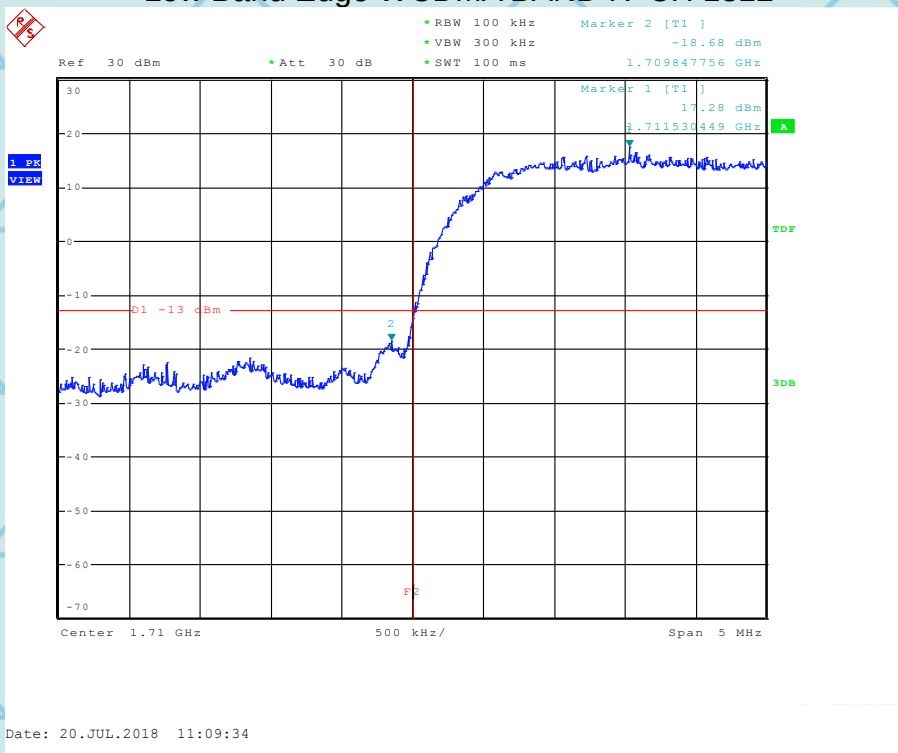
High Band Edge WCDMA BAND II CH 9537



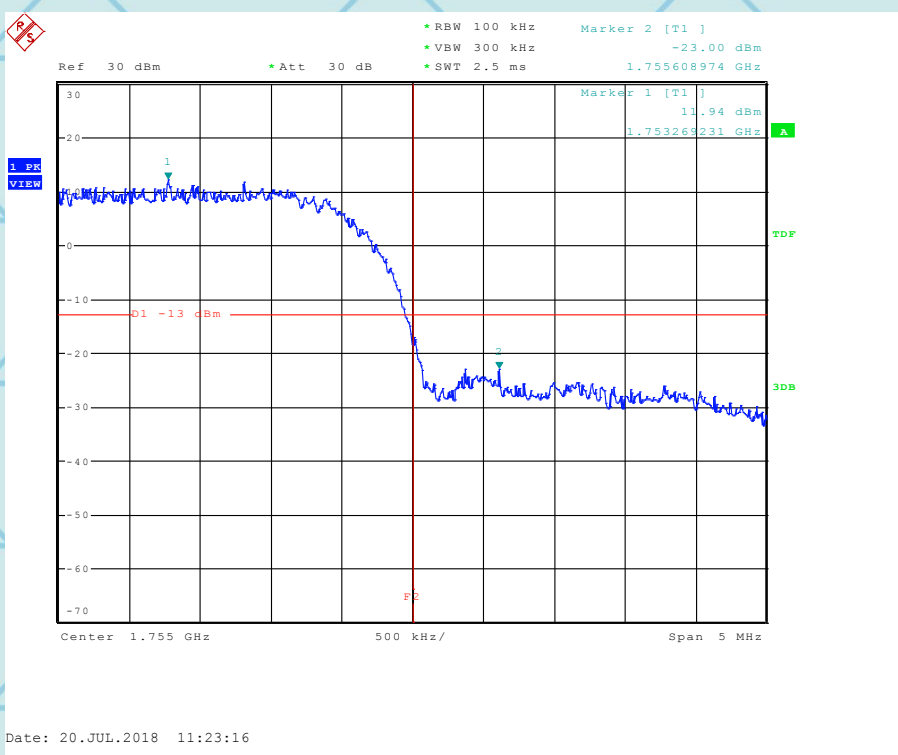


For Question,
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Low Band Edge WCDMA BAND IV CH 1312



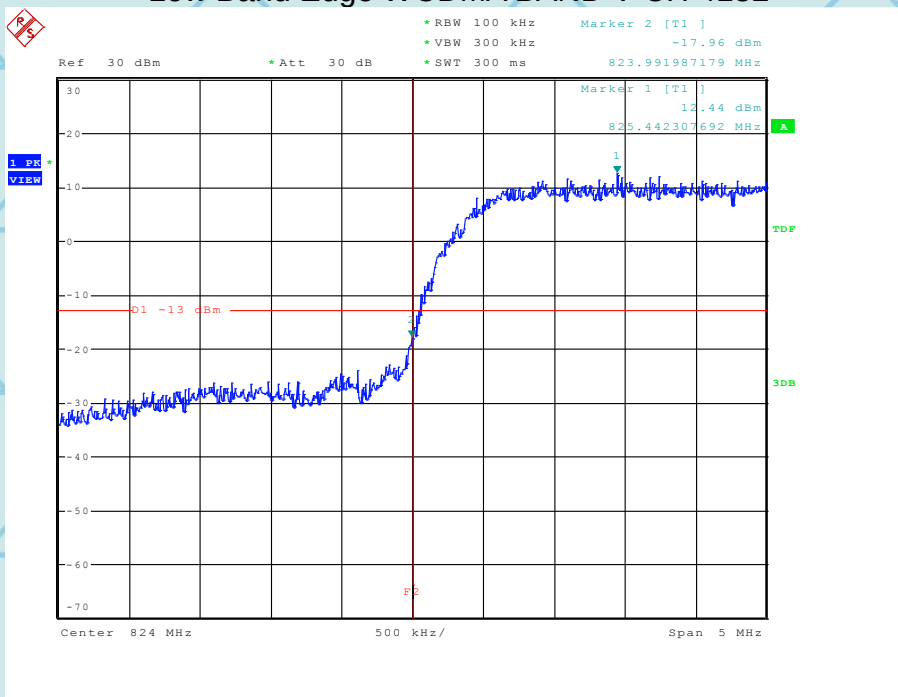
Low Band Edge WCDMA BAND IV CH 1513





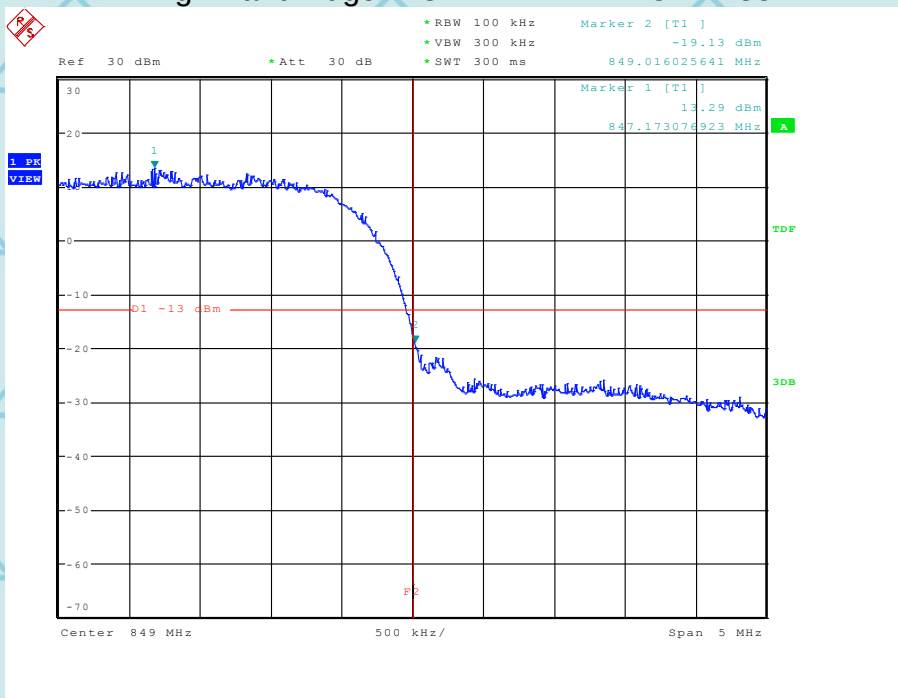
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Low Band Edge WCDMA BAND V CH 4132



Date: 20.JUL.2018 11:16:59

High Band Edge WCDMA BAND V CH 4233



Date: 20.JUL.2018 11:20:32



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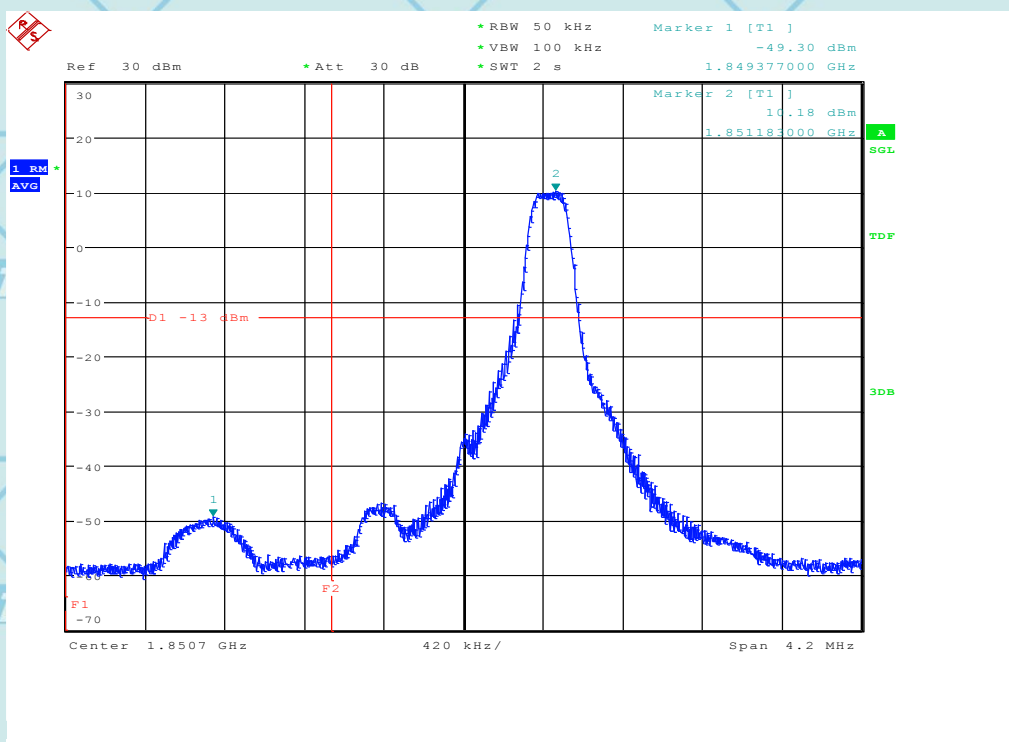
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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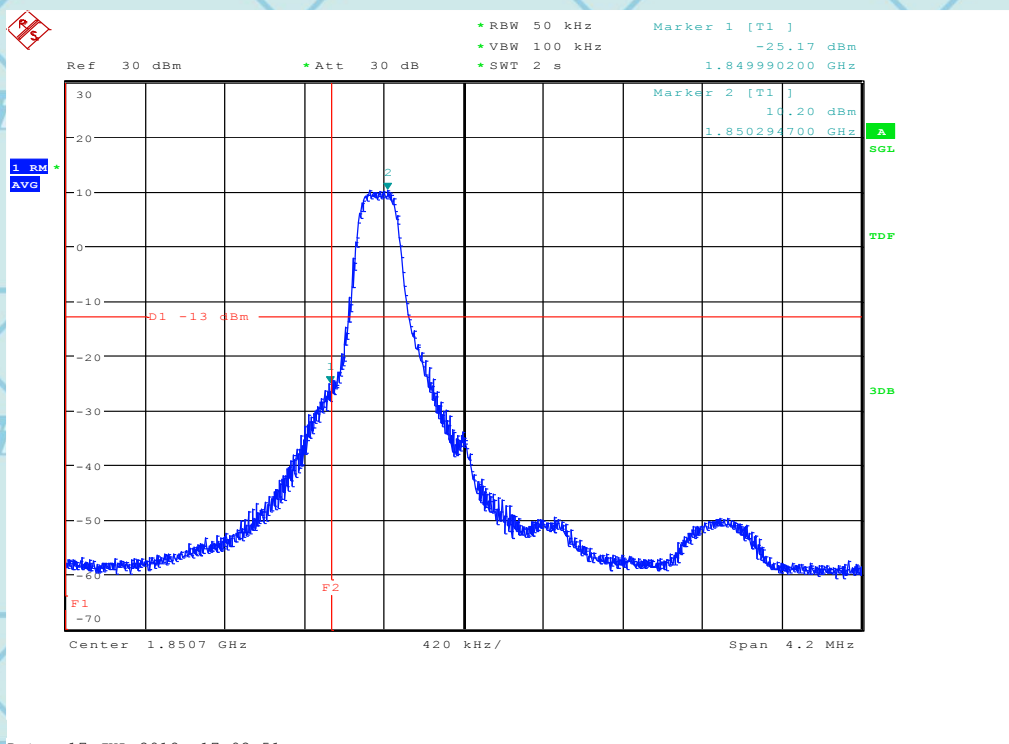


10. E-UTRA BANDS

BAND 2@ Band Edge BAND2-1850.7MHz,Q16-1RB_HIGH@Pass



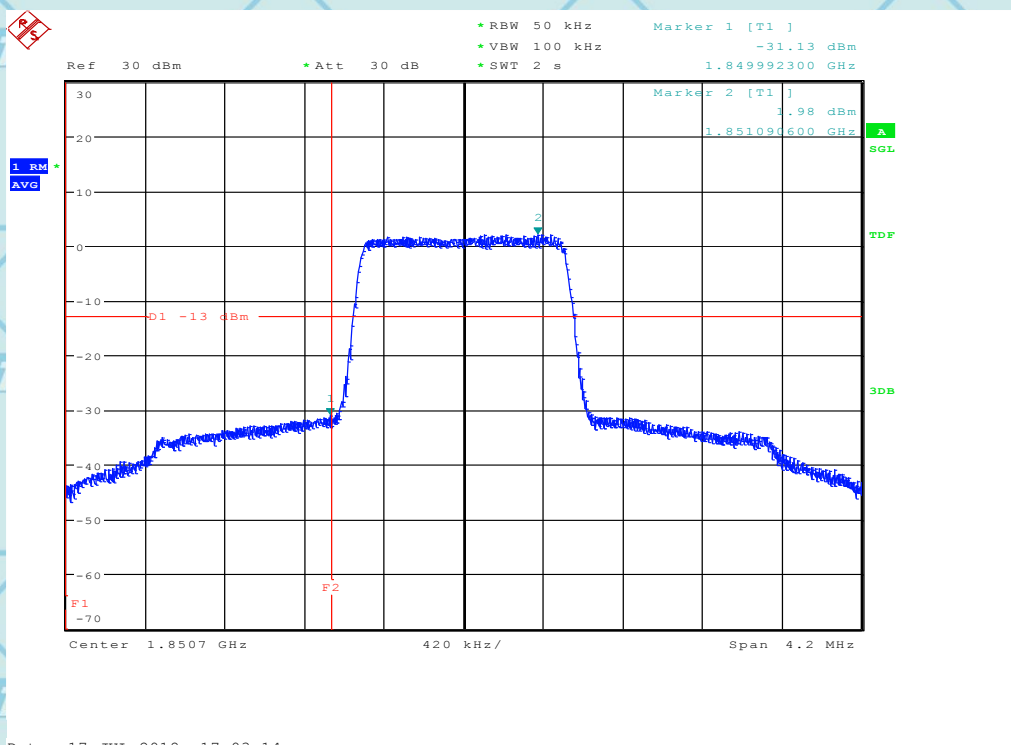
BAND2-1850.7MHz,Q16-1RB_LOW@Pass



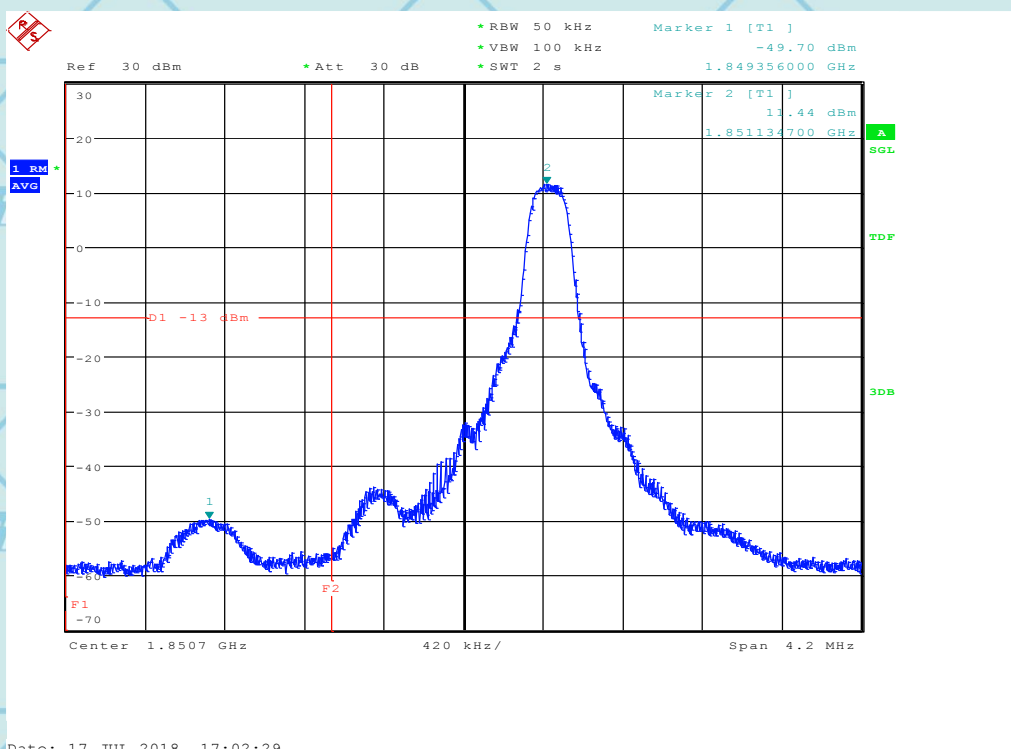


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BAND2-1850.7MHz,Q16-6RB_LOW@Pass



BAND2-1850.7MHz,QPSK-1RB_HIGH@Pass



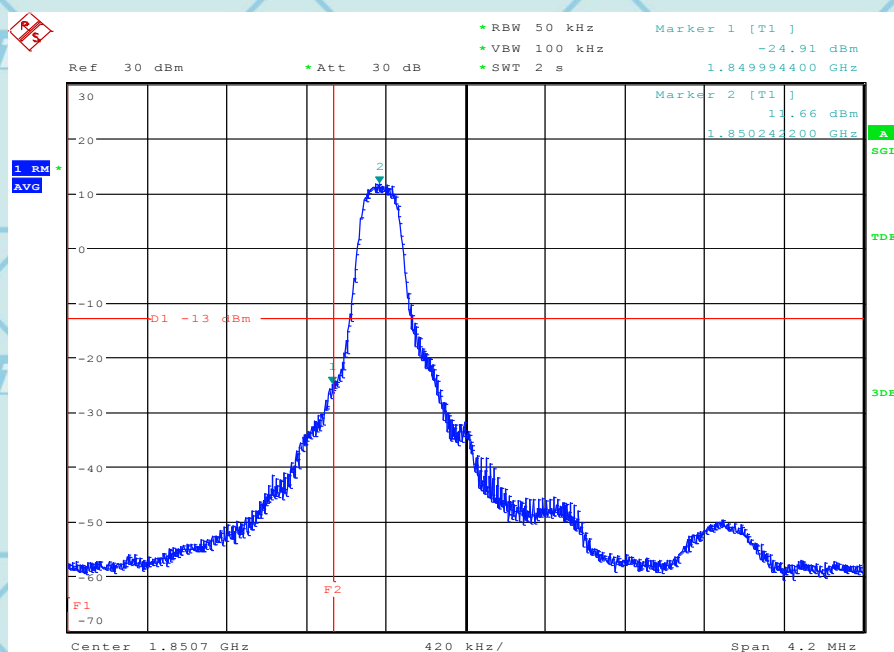
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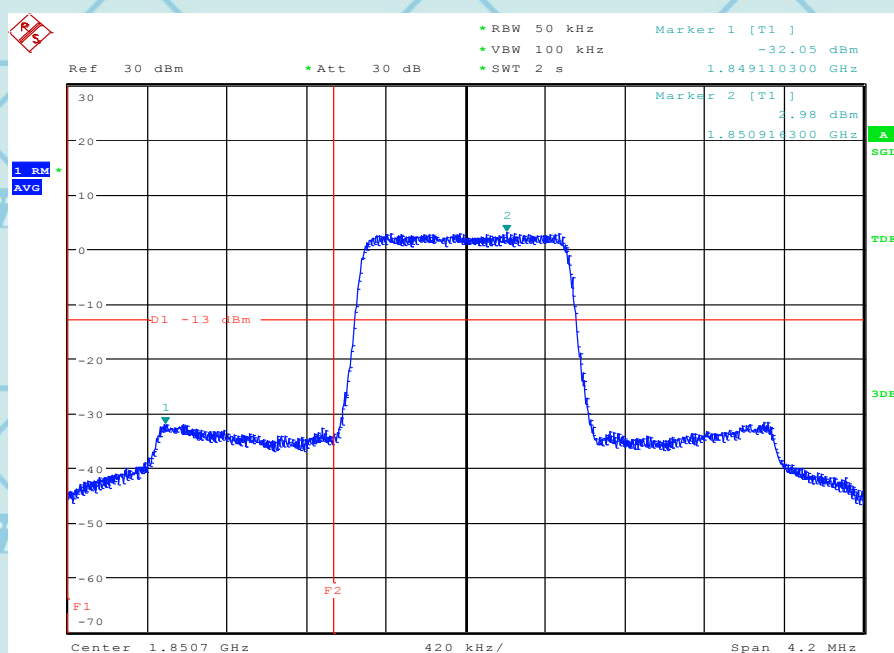
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BAND2-1850.7MHz,QPSK-1RB_LOW@Pass



Date: 17.JUL.2018 17:02:17

BAND2-1850.7MHz,QPSK-6RB_LOW@Pass

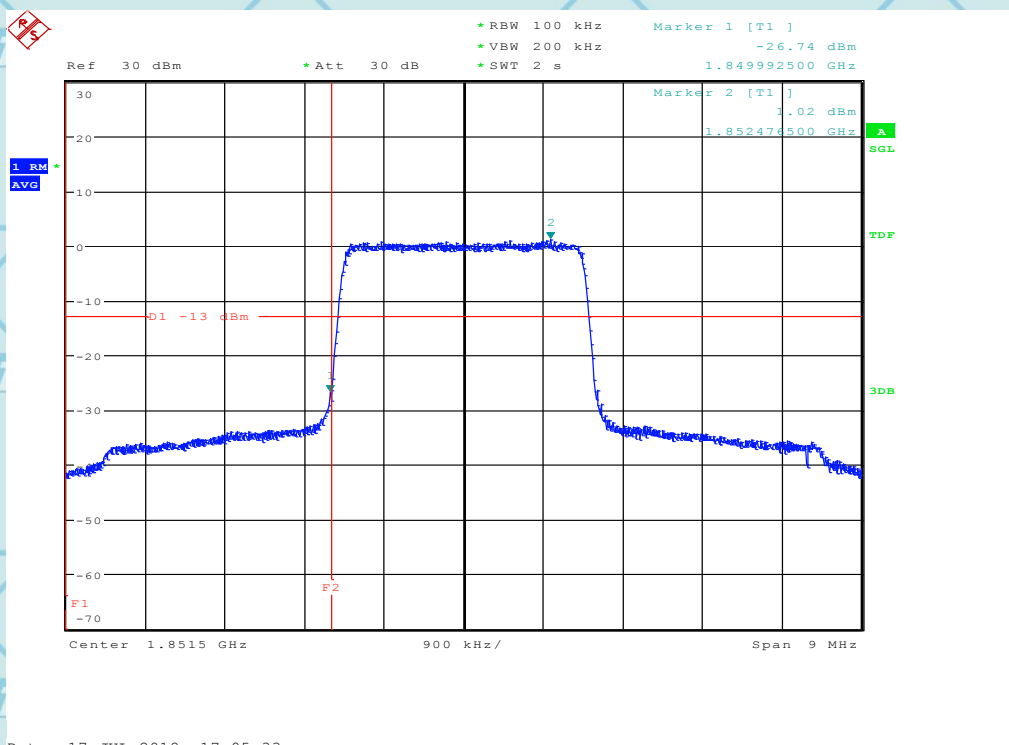


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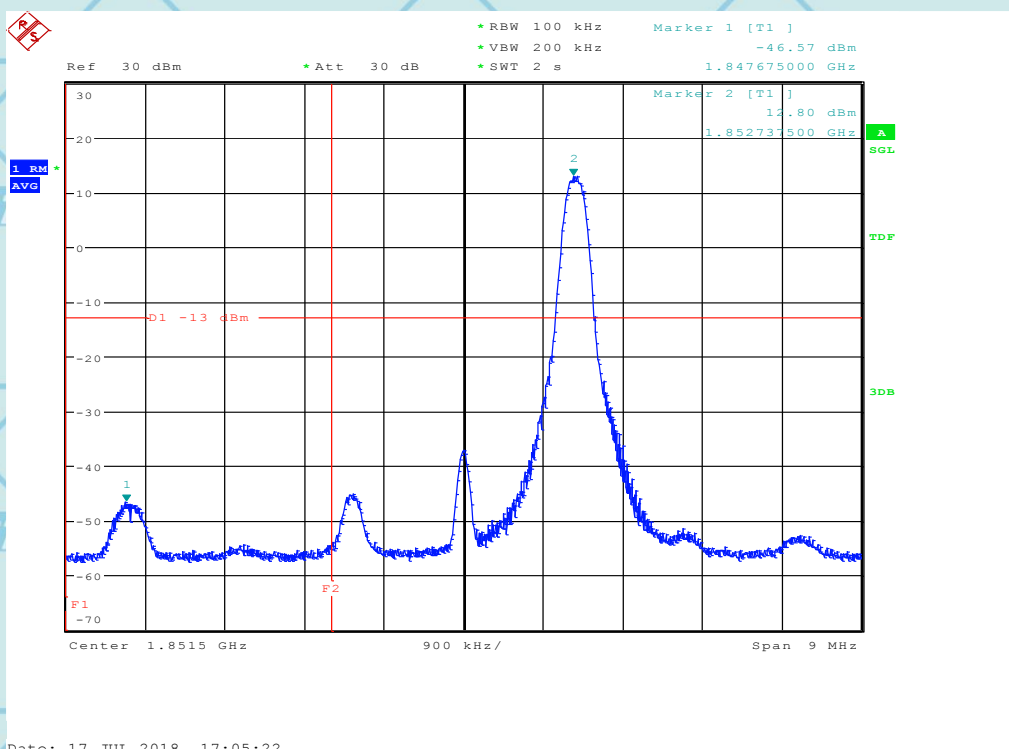


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BAND2-1851.5MHz,Q16-15RB_LOW@Pass



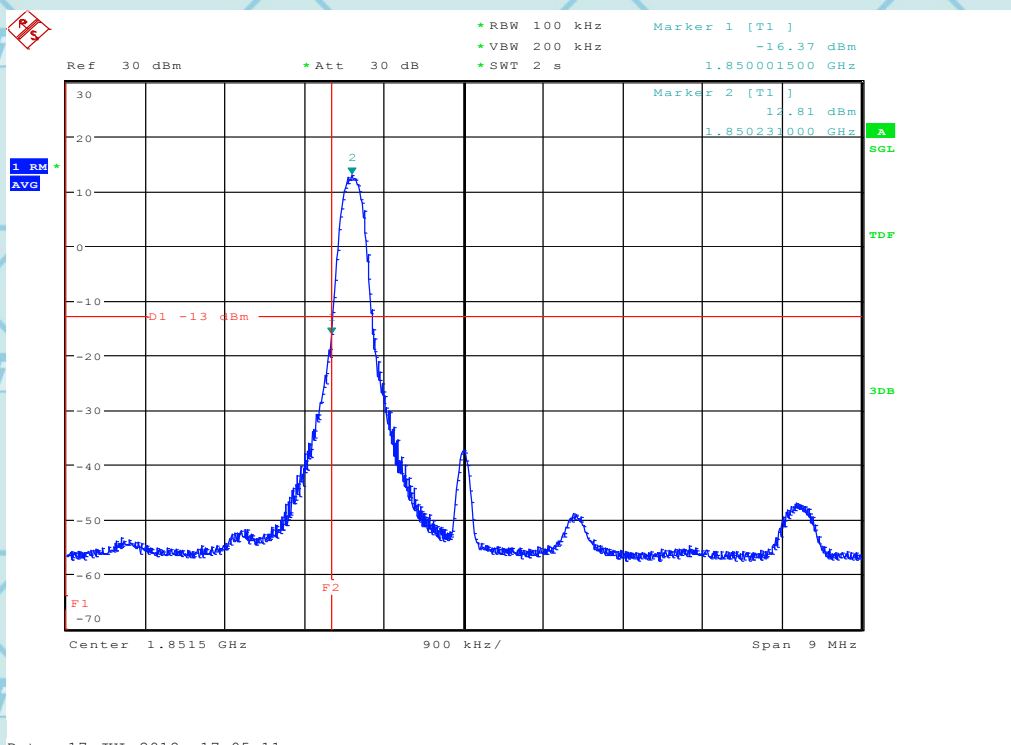
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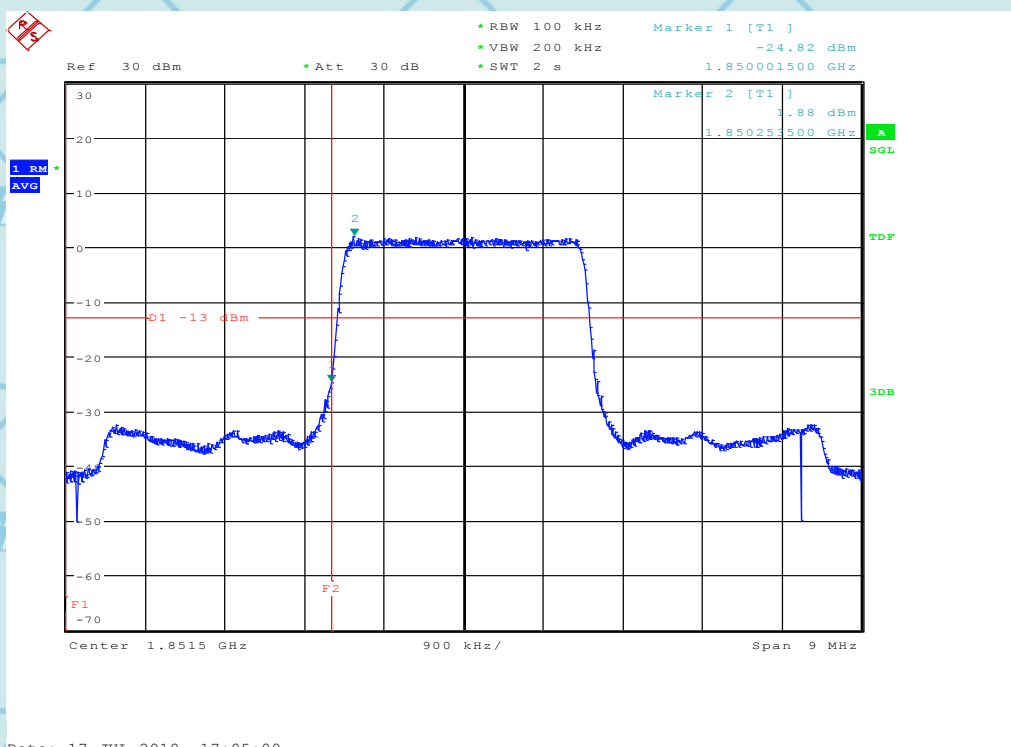


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BAND2-1851.5MHz,Q16-1RB_LOW@Pass



BAND2-1851.5MHz,QPSK-15RB_LOW@Pass



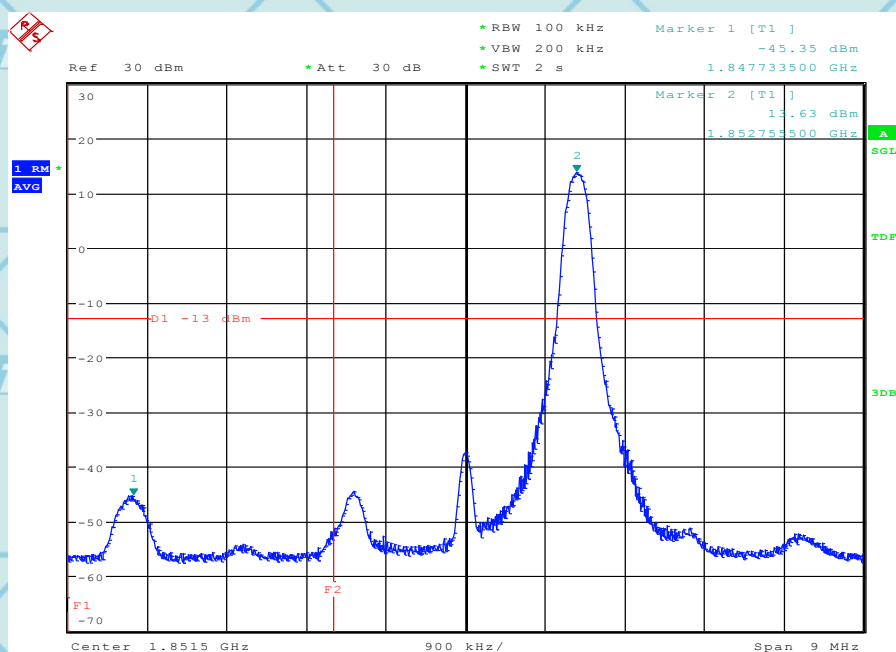
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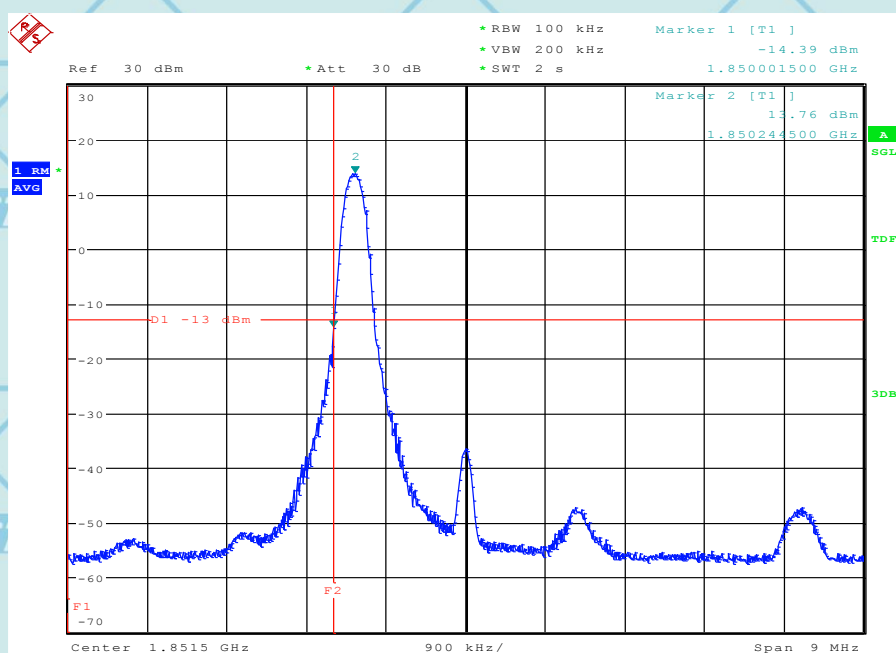
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BAND2-1851.5MHz,QPSK-1RB_HIGH@Pass



Date: 17.JUL.2018 17:04:48

BAND2-1851.5MHz,QPSK-1RB_LOW@Pass

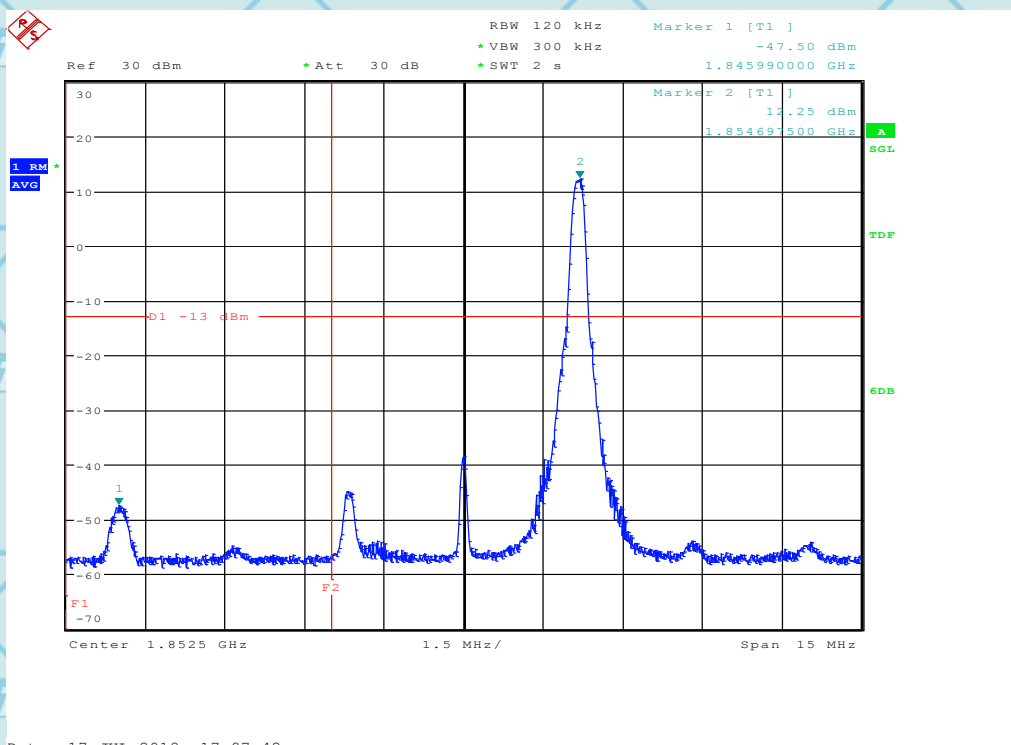


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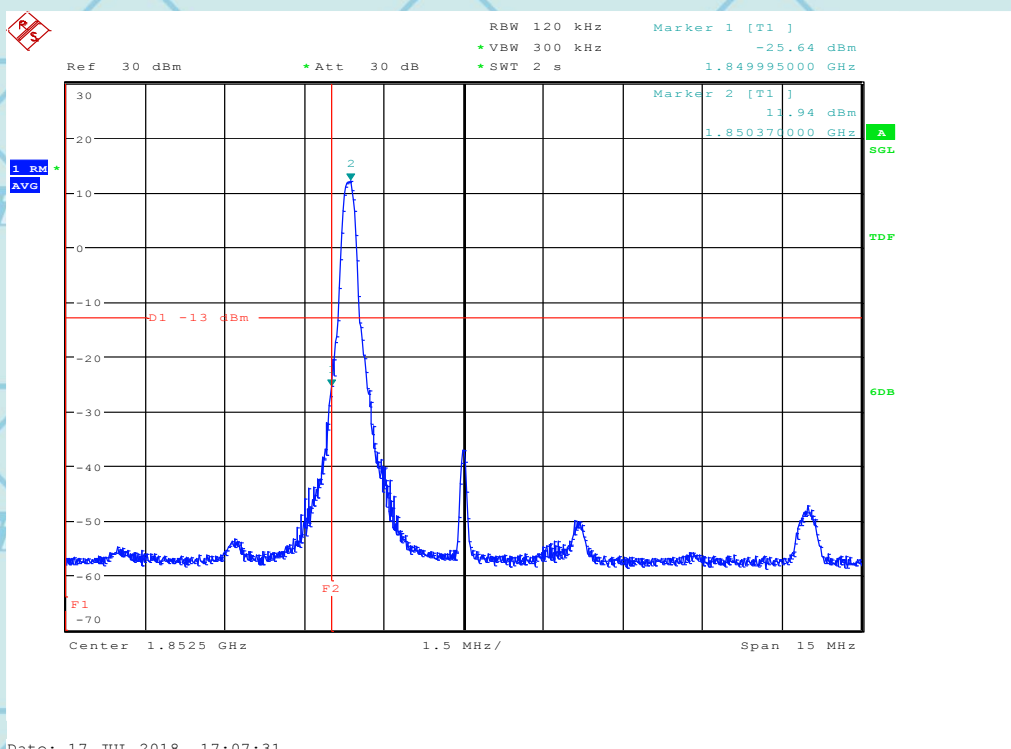


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BAND2-1852.5MHz,Q16-1RB_HIGH@Pass



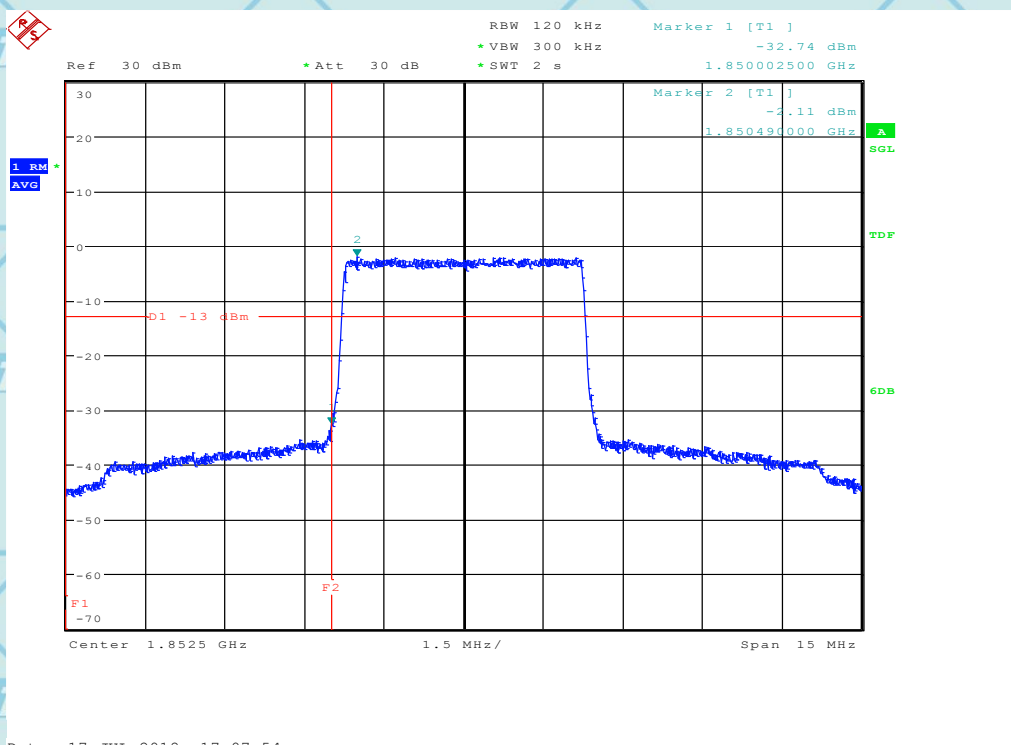
BAND2-1852.5MHz,Q16-1RB_LOW@Pass





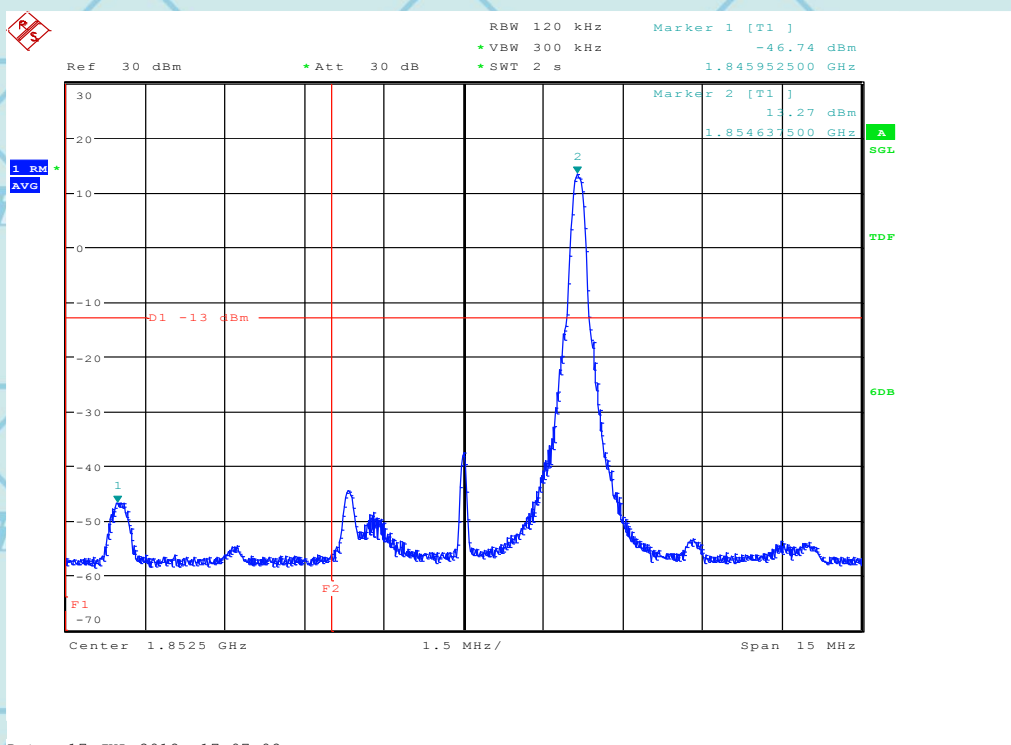
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BAND2-1852.5MHz,Q16-25RB_LOW@Pass



Date: 17-JUL-2018 17:07:54

BAND2-1852.5MHz,QPSK-1RB_HIGH@Pass



Date: 17-JUL-2018 17:07:08



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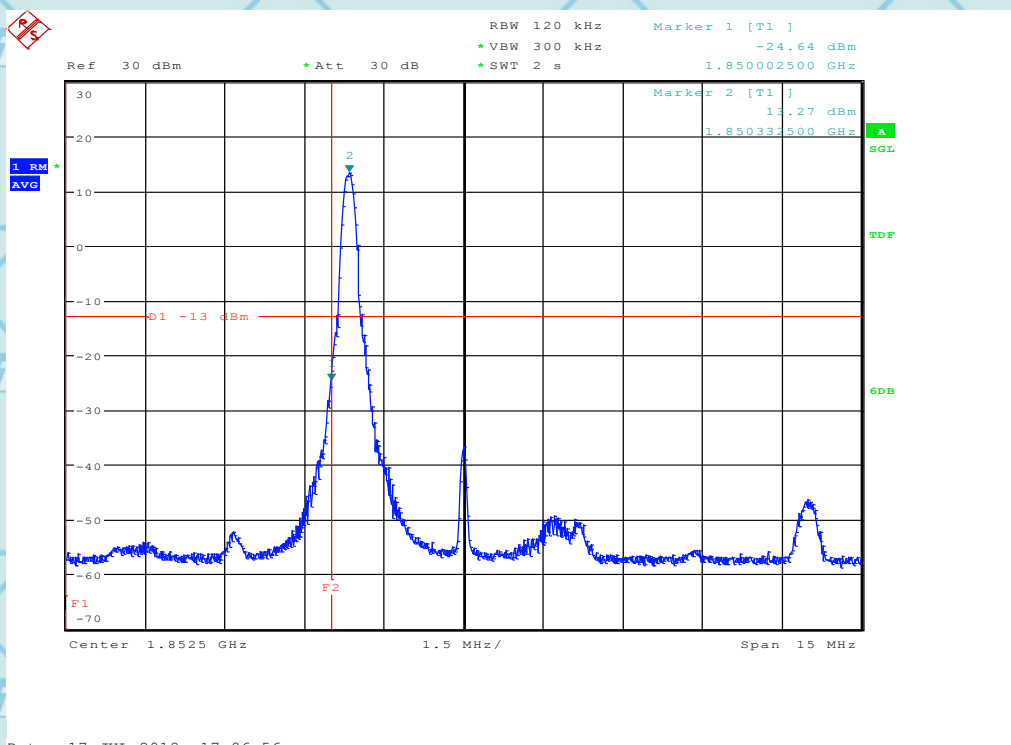
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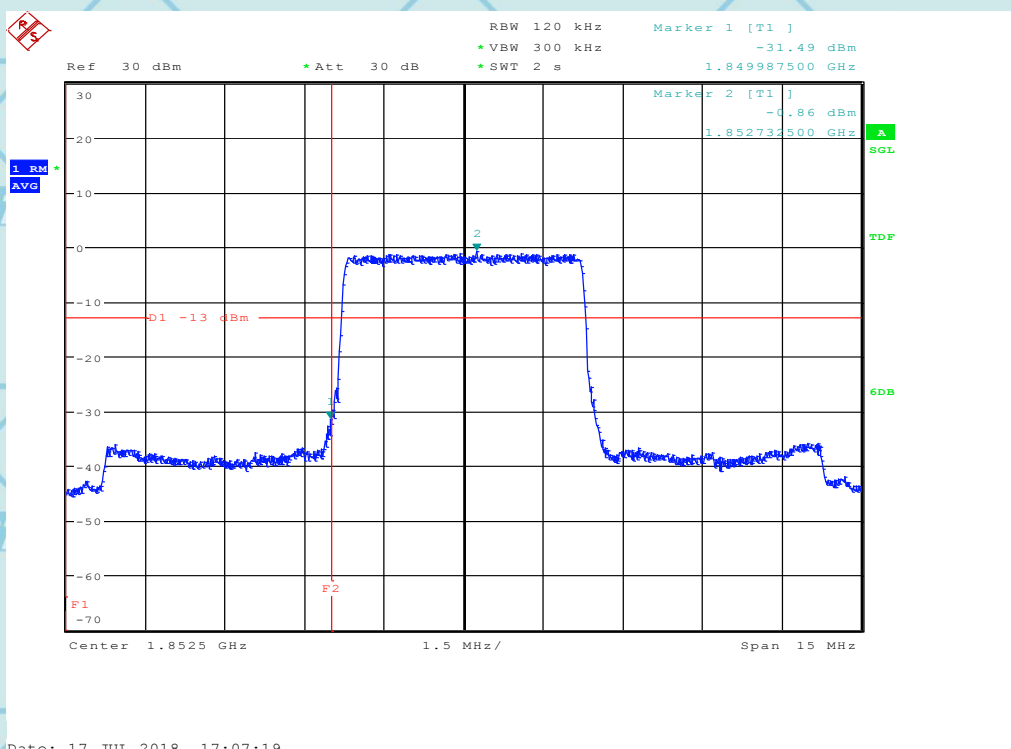


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BAND2-1852.5MHz,QPSK-1RB_LOW@Pass



BAND2-1852.5MHz,QPSK-25RB_LOW@Pass



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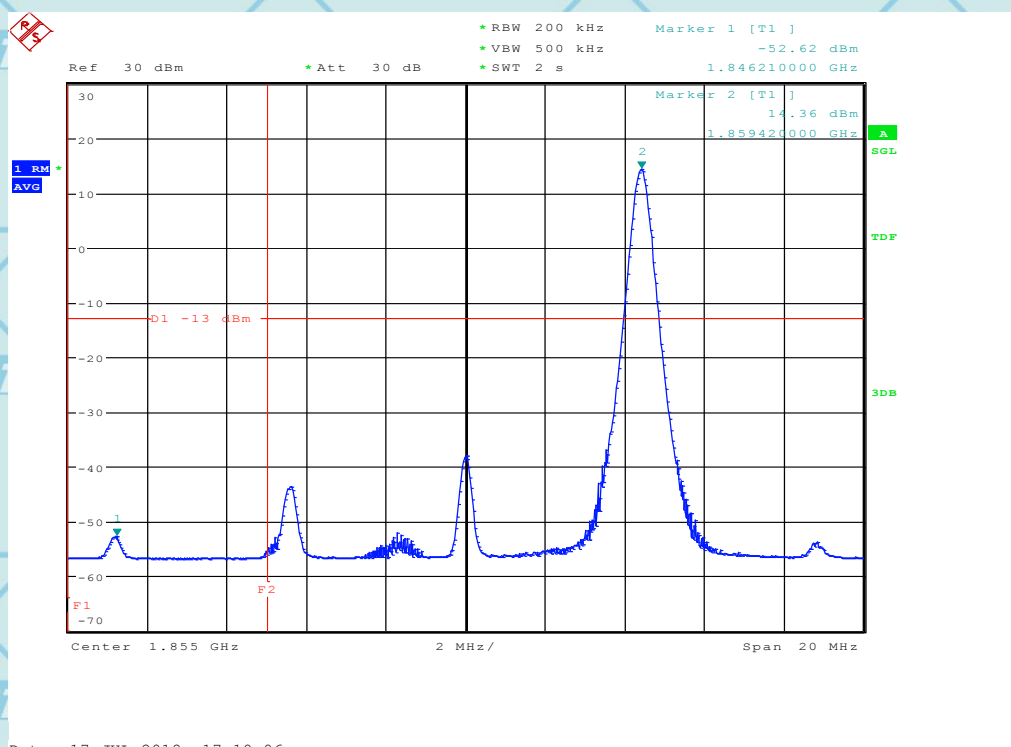
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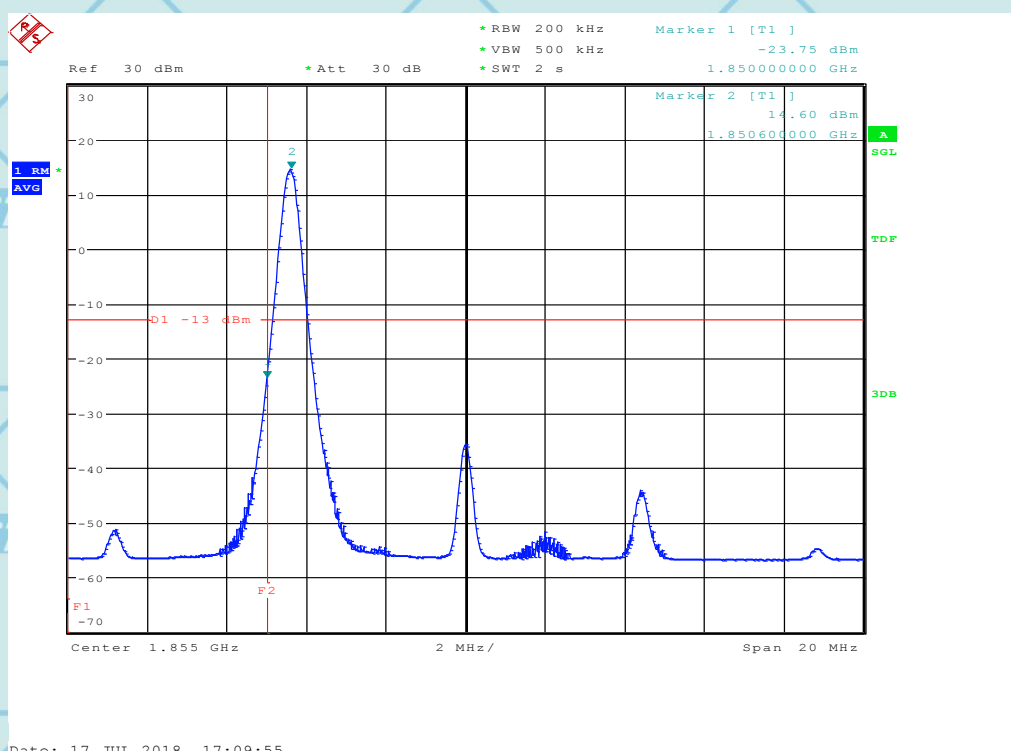


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BAND2-1855MHz,Q16-1RB_HIGH@Pass



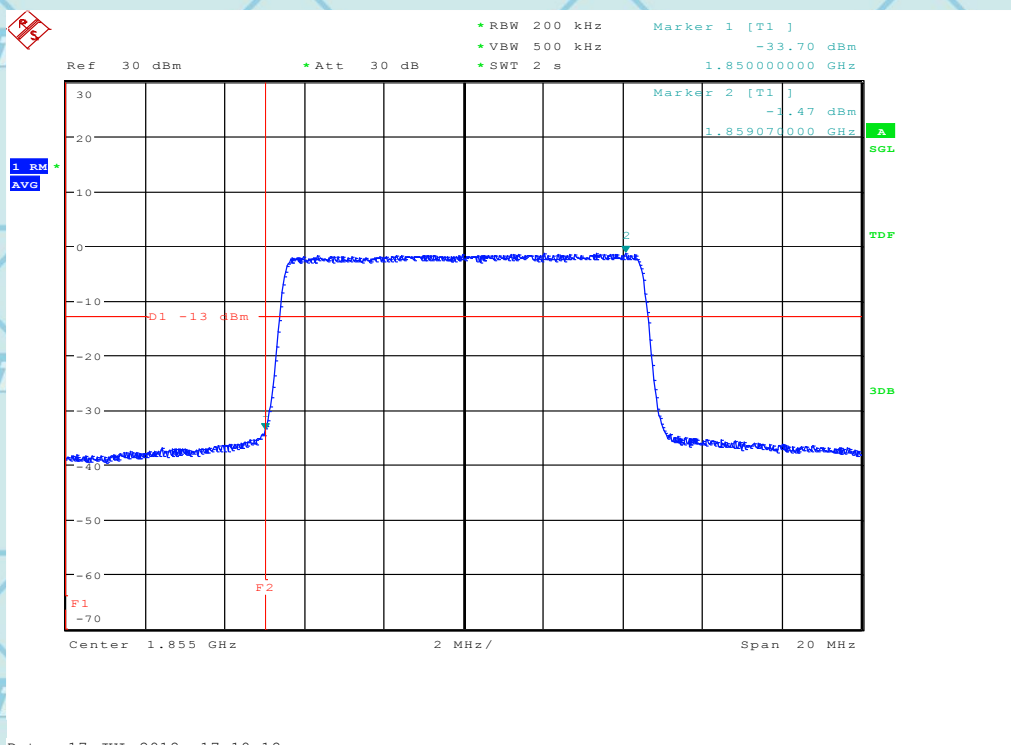
BAND2-1855MHz,Q16-1RB_LOW@Pass



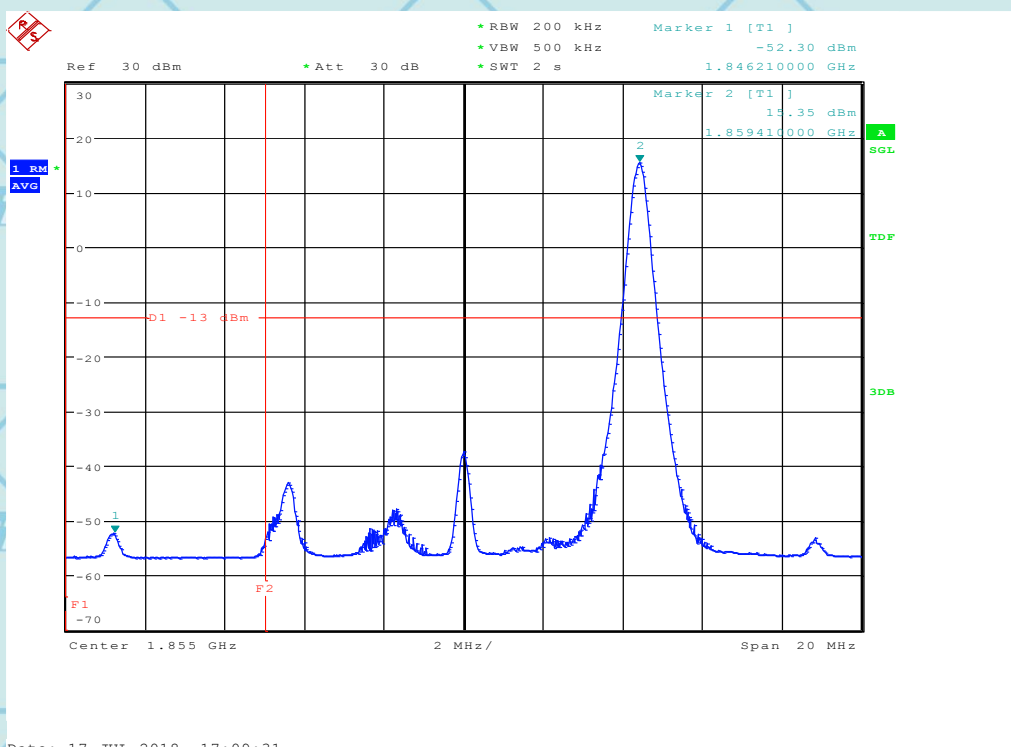


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BAND2-1855MHz,Q16-50RB_LOW@Pass



BAND2-1855MHz,QPSK-1RB_HIGH@Pass



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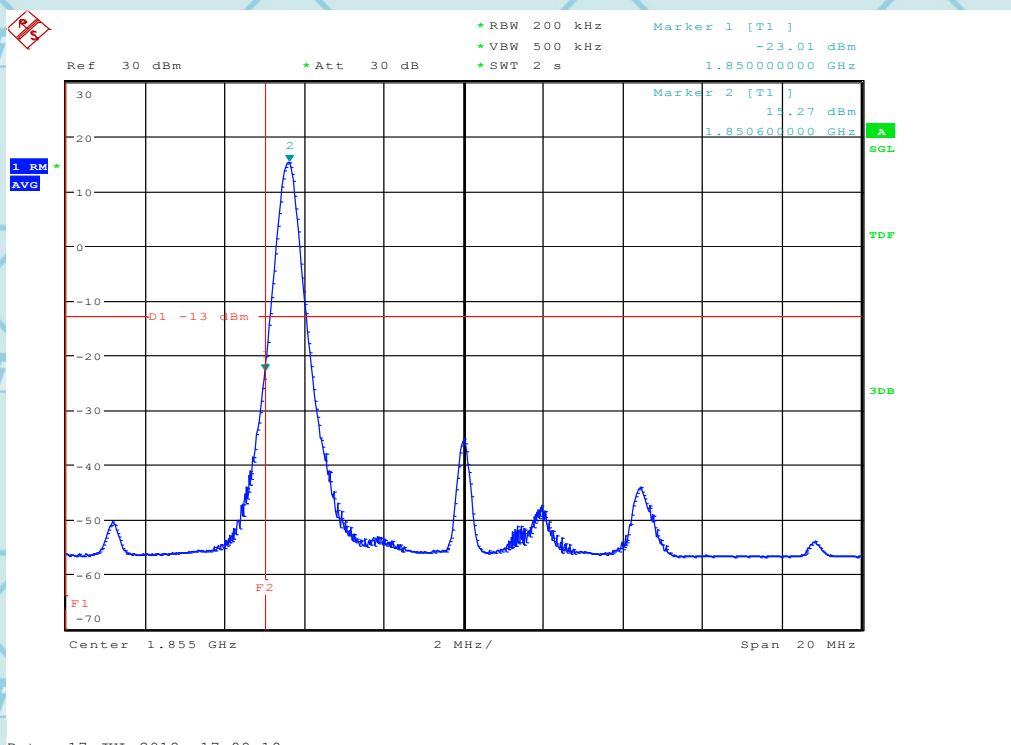
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BAND2-1855MHz,QPSK-1RB_LOW@Pass



BAND2-1855MHz,QPSK-50RB_LOW@Pass

