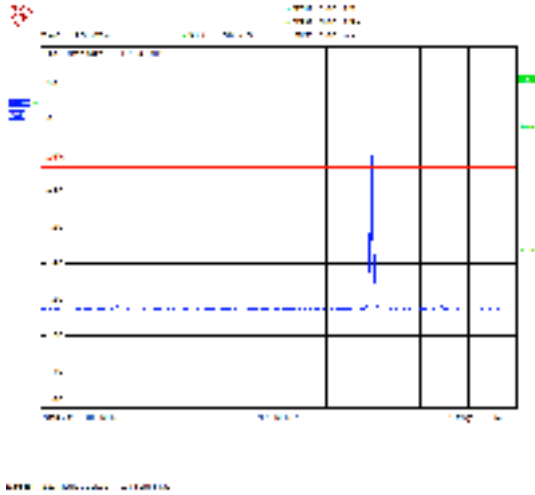
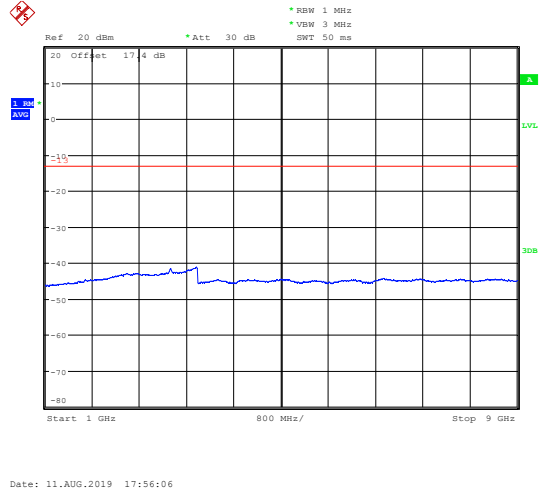




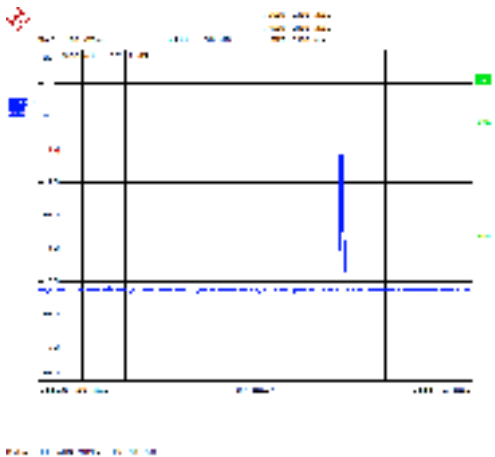
CA-12B 5MHz+10MHz CH-Low QPSK  
30MHz~1GHz



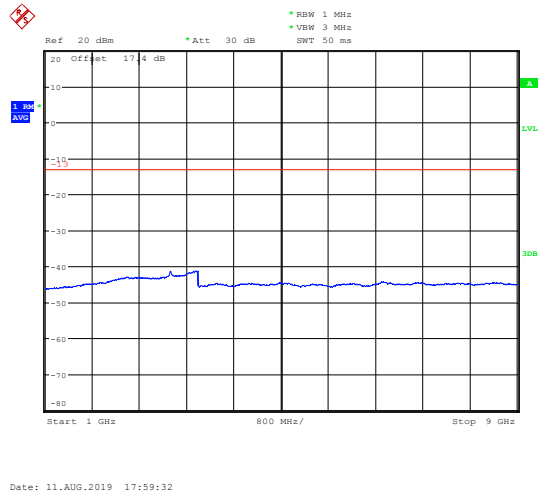
CA-12B 5MHz+10MHz CH-Low QPSK  
1GHz~9GHz



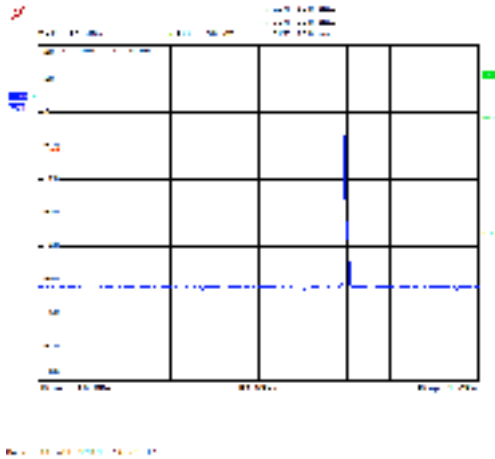
CA-12B 5MHz+10MHz CH-Middle QPSK  
30MHz~1GHz



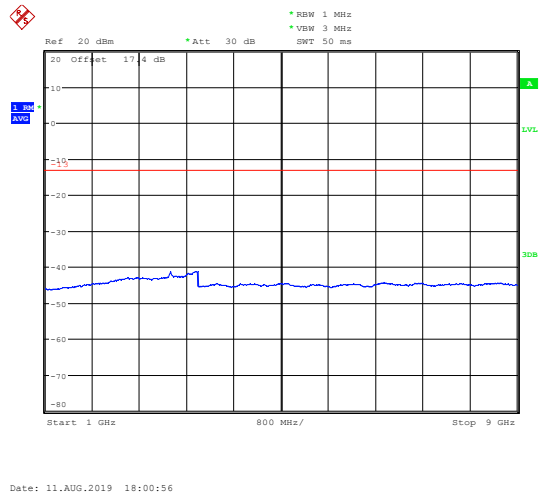
CA-12B 5MHz+10MHz CH-Middle QPSK  
1GHz~9GHz



CA-12B 5MHz+10MHz CH-High QPSK  
30MHz~1GHz

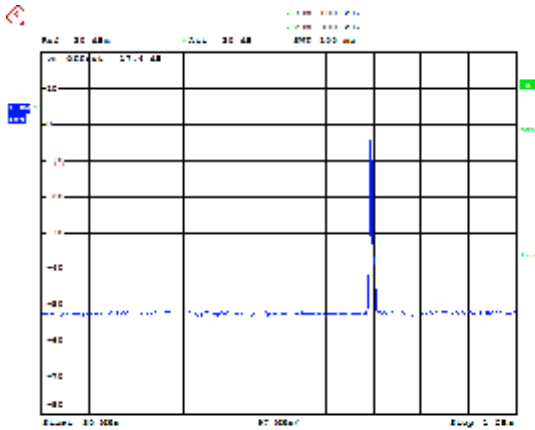


CA-12B 5MHz+10MHz CH-High QPSK  
1GHz~9GHz



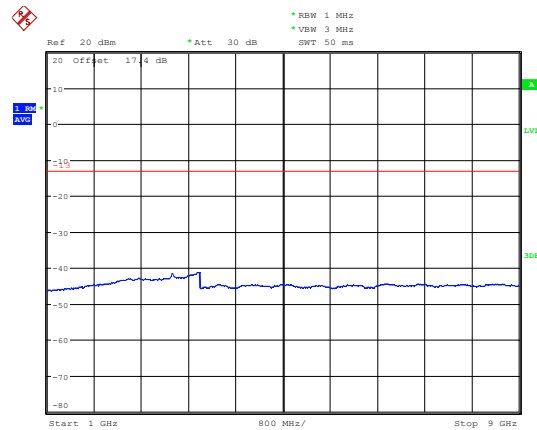


CA-12B 5MHz+10MHz CH-Low 16QAM  
30MHz~1GHz



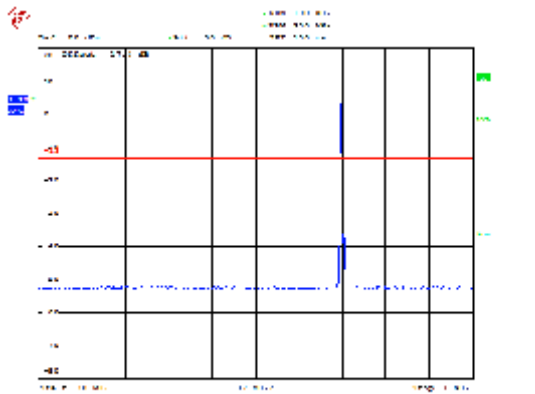
Date: 11.AUG.2019 17:55:42

CA-12B 5MHz+10MHz CH-Low 16QAM  
1GHz~9GHz



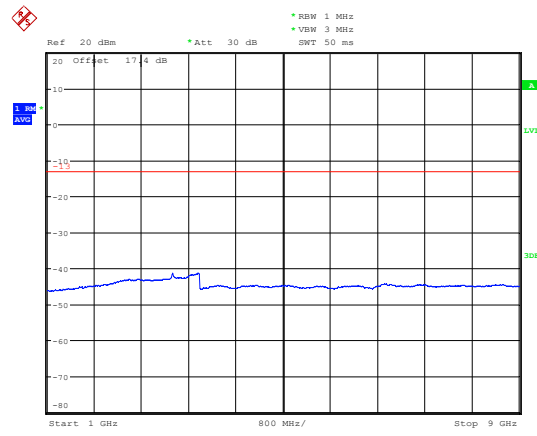
Date: 11.AUG.2019 17:56:42

CA-12B 5MHz+10MHz CH-Middle 16QAM  
30MHz~1GHz



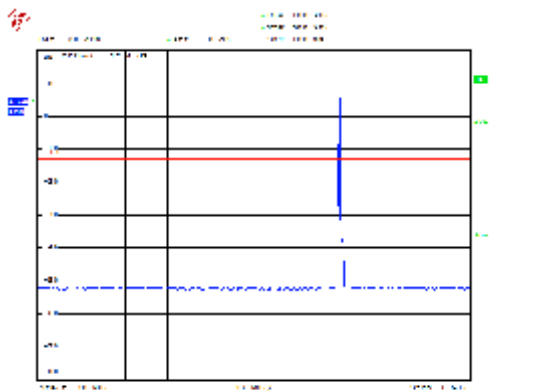
Date: 11.AUG.2019 17:56:29

CA-12B 5MHz+10MHz CH-Middle 16QAM  
1GHz~9GHz



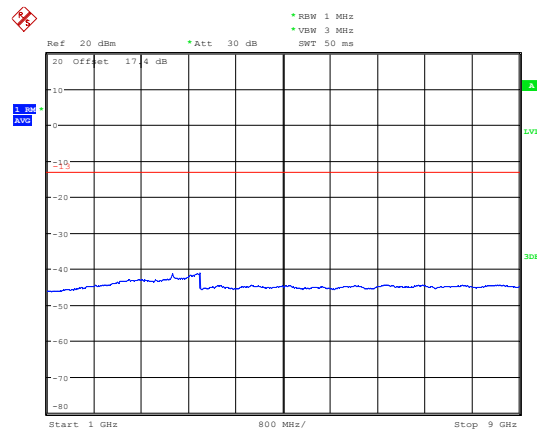
Date: 11.AUG.2019 17:59:56

CA-12B 5MHz+10MHz CH-High 16QAM  
30MHz~1GHz



Date: 11.AUG.2019 18:01:20

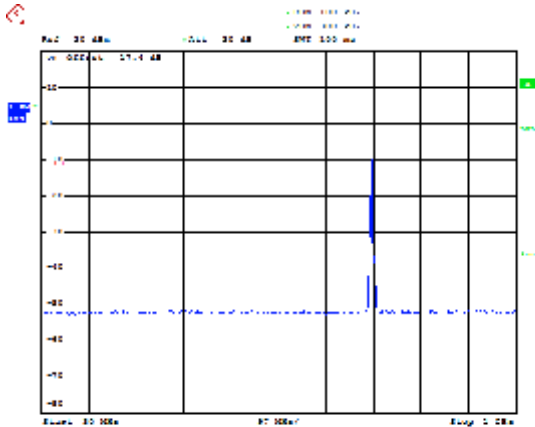
CA-12B 5MHz+10MHz CH-High 16QAM  
1GHz~9GHz



Date: 11.AUG.2019 18:01:22

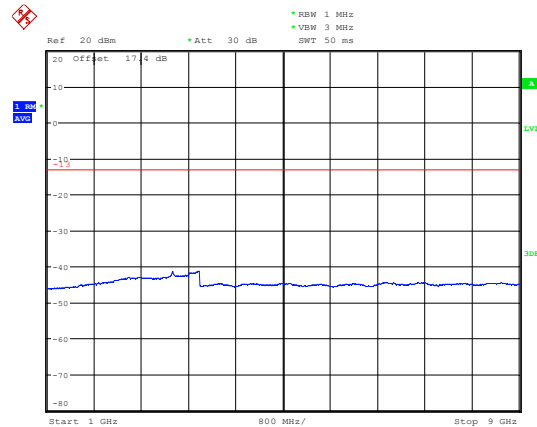


CA-12B 5MHz+10MHz CH-Low 64QAM  
30MHz~1GHz



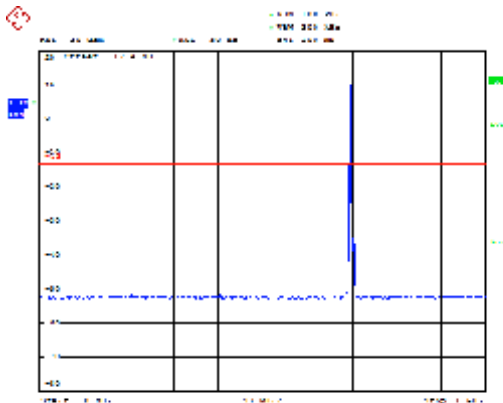
Date: 11.AUG.2019 17:51:19

CA-12B 5MHz+10MHz CH-Low 64QAM  
1GHz~9GHz



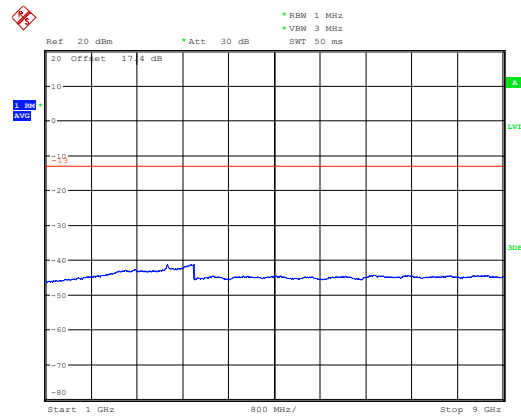
Date: 11.AUG.2019 17:57:48

CA-12B 5MHz+10MHz CH-Middle 64QAM  
30MHz~1GHz



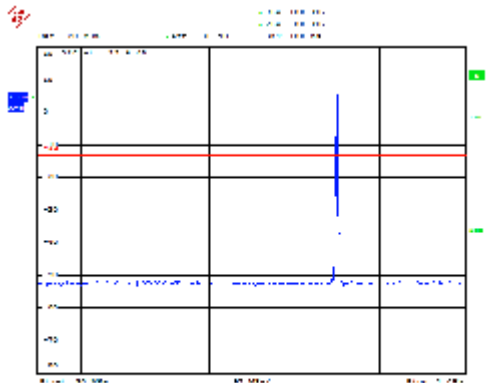
Date: 11.AUG.2019 18:00:21

CA-12B 5MHz+10MHz CH-Middle 64QAM  
1GHz~9GHz



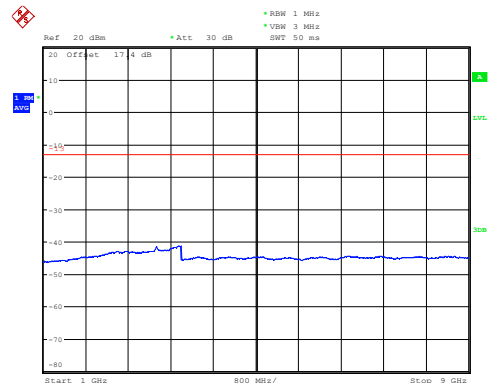
Date: 11.AUG.2019 18:00:21

CA-12B 5MHz+10MHz CH-High 64QAM  
30MHz~1GHz



Date: 11.AUG.2019 18:01:47

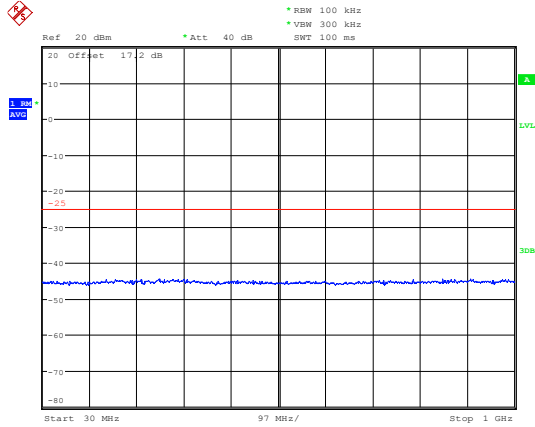
CA-12B 5MHz+10MHz CH-High 64QAM  
1GHz~9GHz



Date: 11.AUG.2019 18:01:47

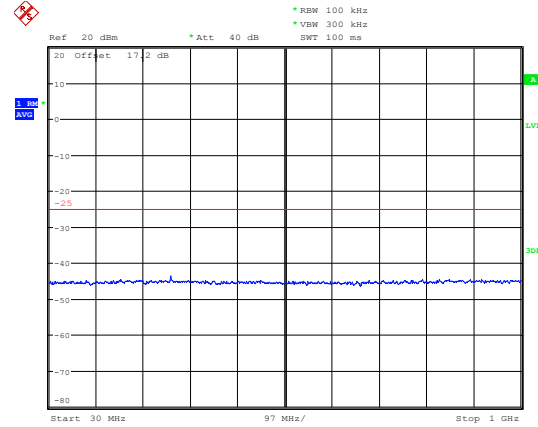


### CA-38C 15MHz+15MHz CH-Low QPSK 30MHz~1GHz



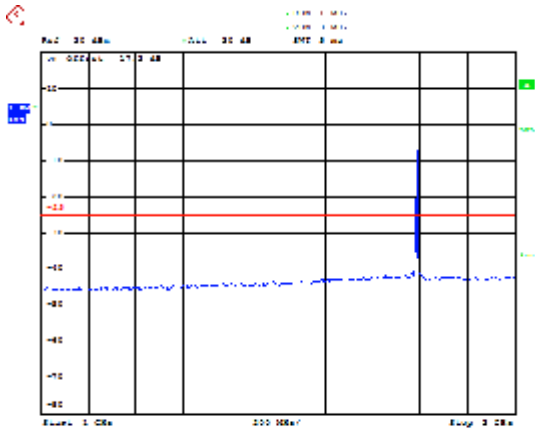
Date: 5.AUG.2019 13:16:13

### CA-38C 15MHz+15MHz CH-Middle QPSK 30MHz~1GHz



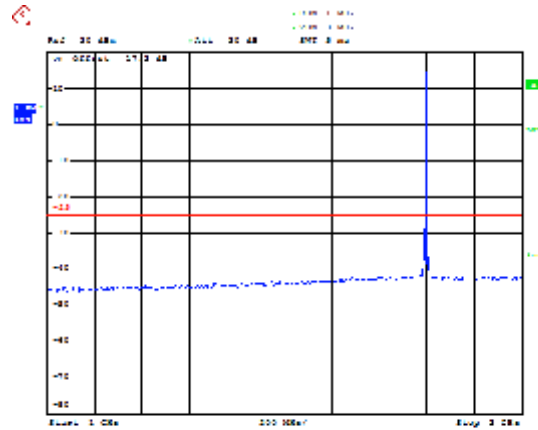
Date: 5.AUG.2019 13:20:48

### CA-38C 15MHz+15MHz CH-Low QPSK 1GHz~3GHz



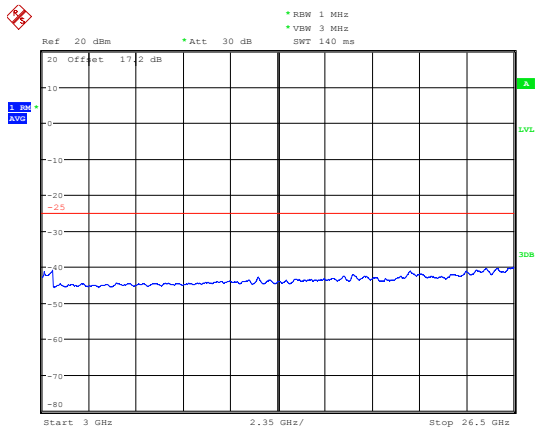
Date: 5.AUG.2019 14:10:14

### CA-38C 15MHz+15MHz CH-Middle QPSK 1GHz~3GHz



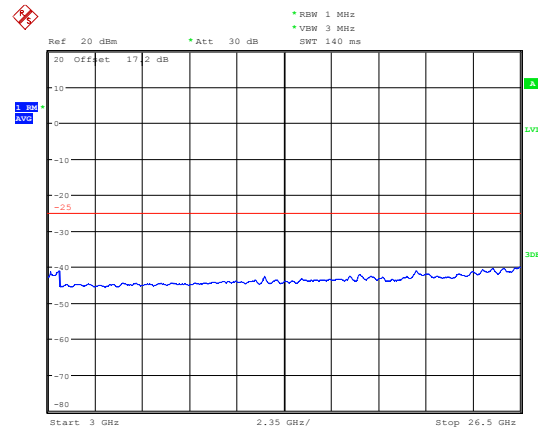
Date: 5.AUG.2019 14:13:14

### CA-38C 15MHz+15MHz CH-Low QPSK 3GHz~26.5GHz



Date: 5.AUG.2019 15:06:13

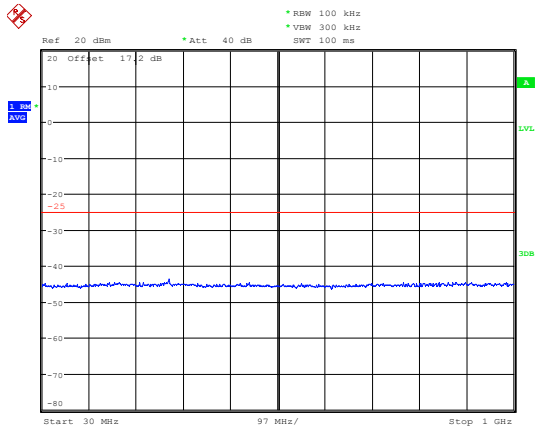
### CA-38C 15MHz+15MHz CH-Middle QPSK 3GHz~26.5GHz



Date: 5.AUG.2019 15:11:09

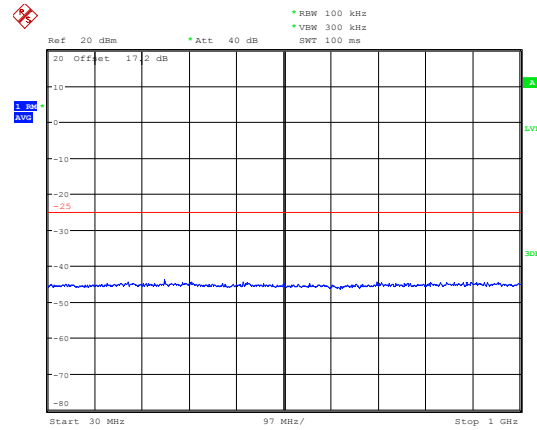


### CA-38C 15MHz+15MHz CH-High QPSK 30MHz~1GHz



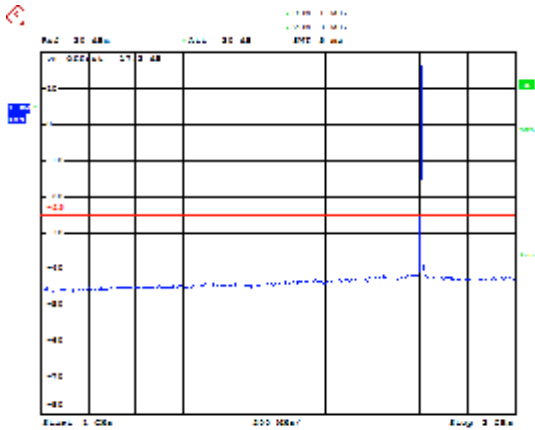
Date: 5.AUG.2019 13:23:09

### CA-38C 15MHz+15MHz CH-Low 16QAM 30MHz~1GHz



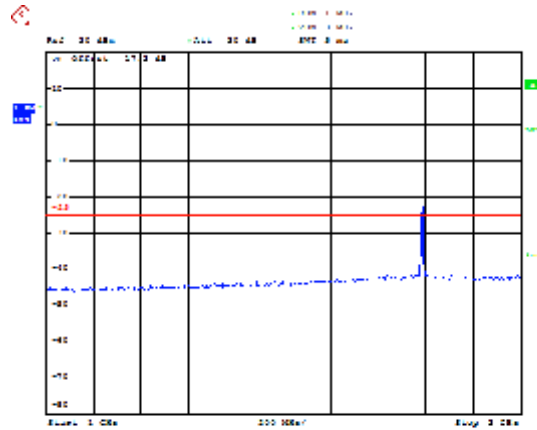
Date: 5.AUG.2019 13:16:55

### CA-38C 15MHz+15MHz CH-High QPSK 1GHz~3GHz



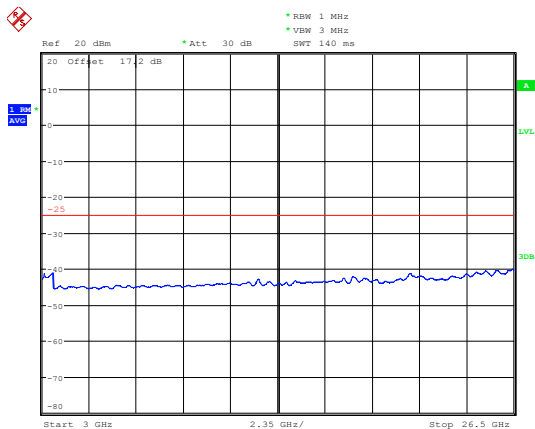
Date: 5.AUG.2019 14:16:11

### CA-38C 15MHz+15MHz CH-Low 16QAM 1GHz~3GHz



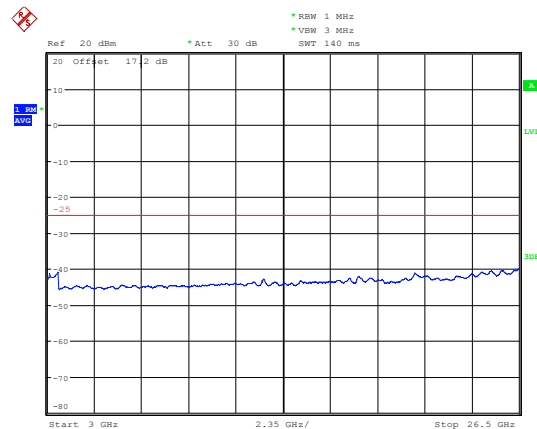
Date: 5.AUG.2019 14:12:11

### CA-38C 15MHz+15MHz CH-High QPSK 3GHz~26.5GHz



Date: 5.AUG.2019 15:14:00

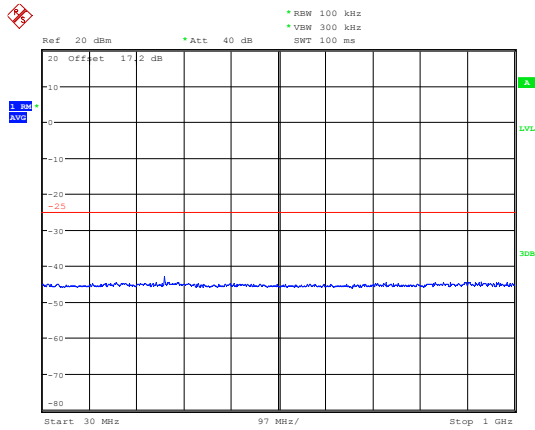
### CA-38C 15MHz+15MHz CH-Low 16QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:06:38

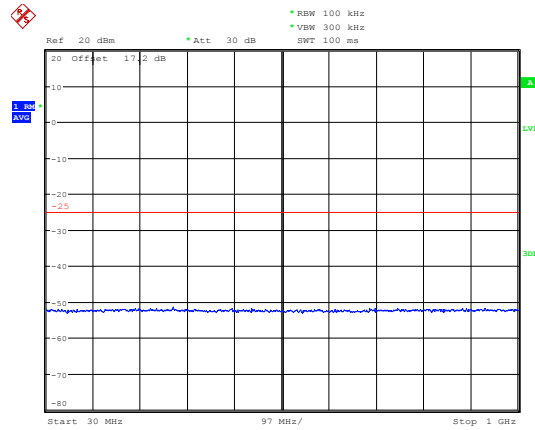


### CA-38C 15MHz+15MHz CH-Middle 16QAM 30MHz~1GHz



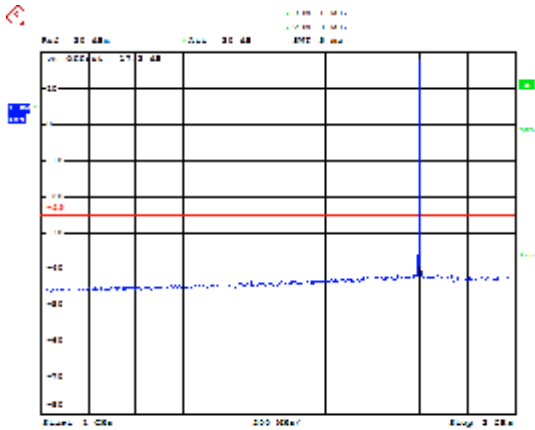
Date: 5.AUG.2019 13:21:41

### CA-38C 15MHz+15MHz CH- High 16QAM 30MHz~1GHz



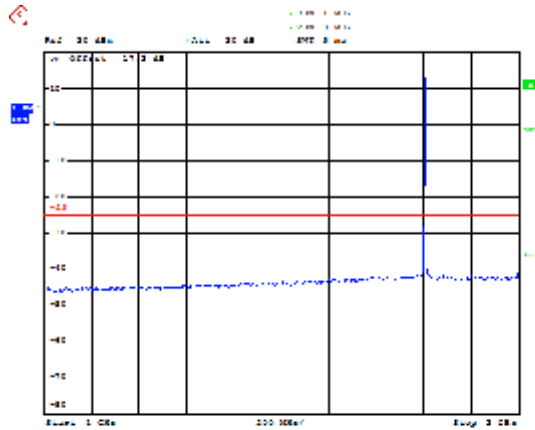
Date: 5.AUG.2019 13:24:33

### CA-38C 15MHz+15MHz CH-Middle 16QAM 1GHz~3GHz



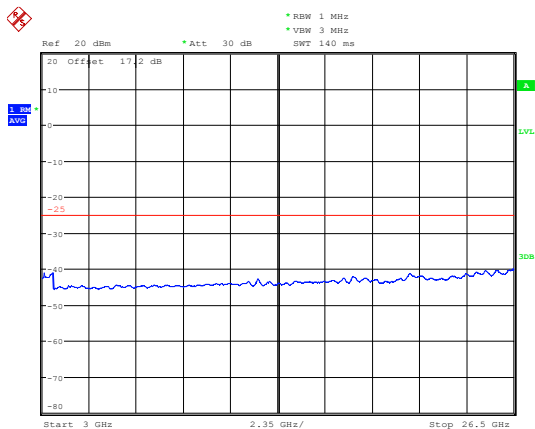
Date: 5.AUG.2019 14:55:45

### CA-38C 15MHz+15MHz CH- High 16QAM 1GHz~3GHz



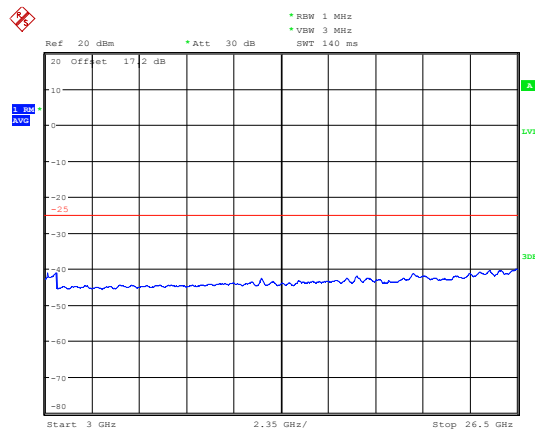
Date: 5.AUG.2019 14:56:55

### CA-38C 15MHz+15MHz CH-Middle 16QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:11:41

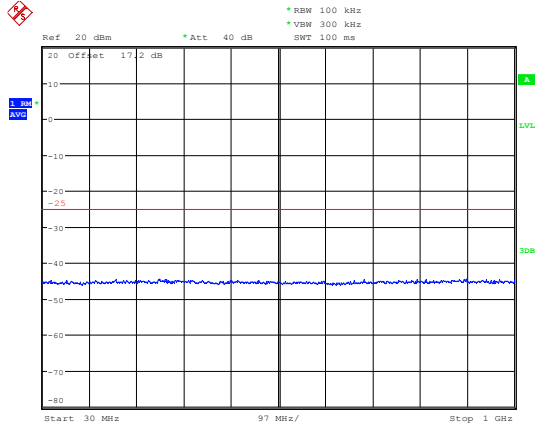
### CA-38C 15MHz+15MHz CH- High 16QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:24:59

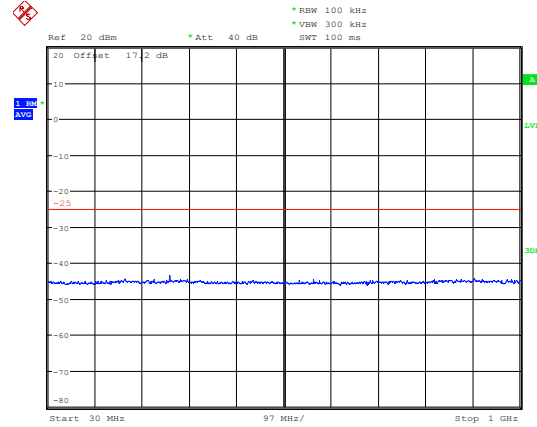


### CA-38C 15MHz+15MHz CH-Low 64QAM 30MHz~1GHz



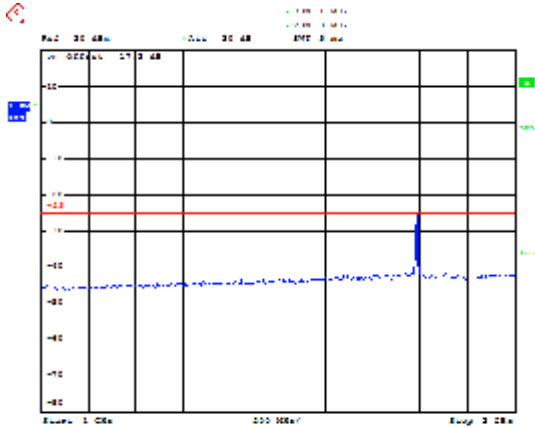
Date: 5.AUG.2019 13:17:56

### CA-38C 15MHz+15MHz CH-Middle 64QAM 30MHz~1GHz



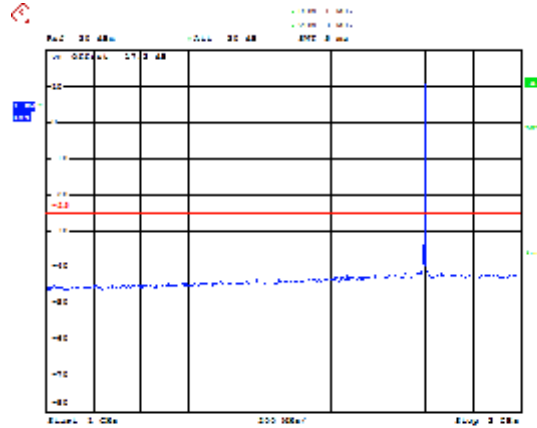
Date: 5.AUG.2019 13:22:06

### CA-38C 15MHz+15MHz CH-Low 64QAM 1GHz~3GHz



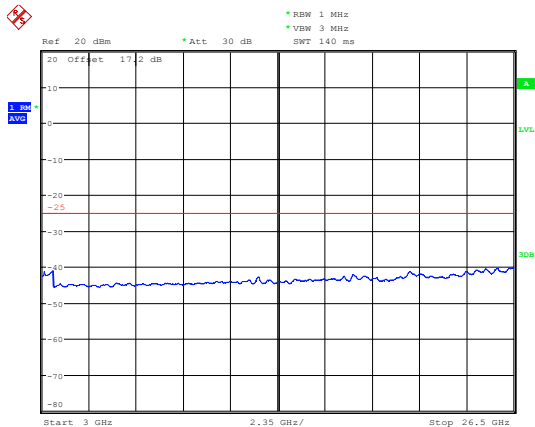
Date: 5.AUG.2019 14:10:16

### CA-38C 15MHz+15MHz CH-Middle 64QAM 1GHz~3GHz



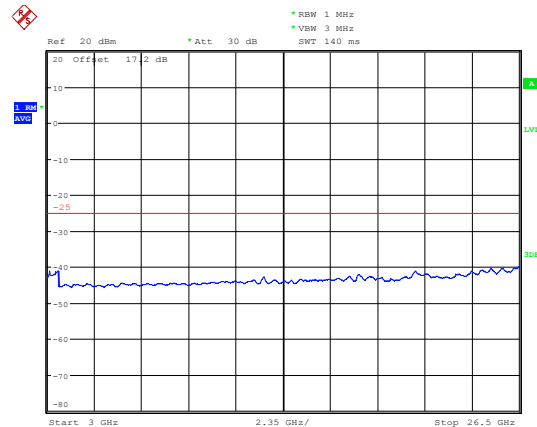
Date: 5.AUG.2019 14:10:12

### CA-38C 15MHz+15MHz CH-Low 64QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:07:11

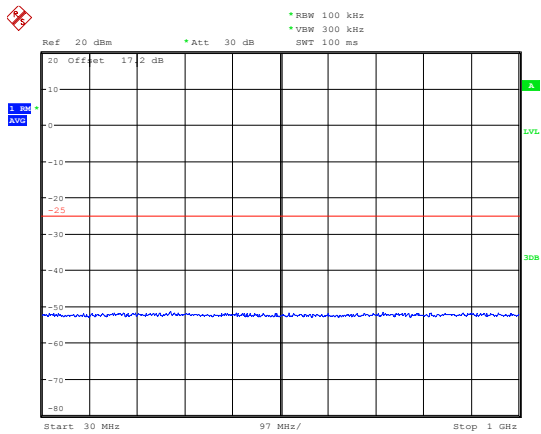
### CA-38C 15MHz+15MHz CH-Middle 64QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:12:44

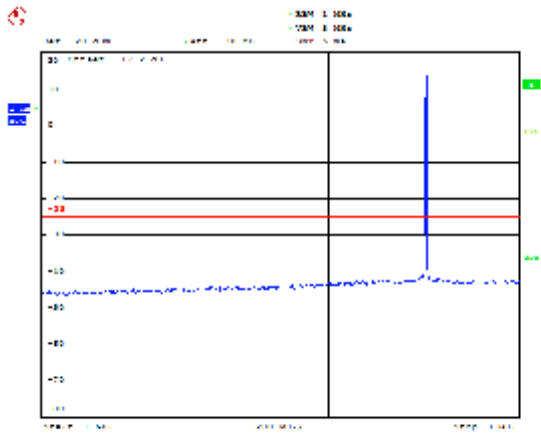


### CA-38C 15MHz+15MHz CH-High 64QAM 30MHz~1GHz



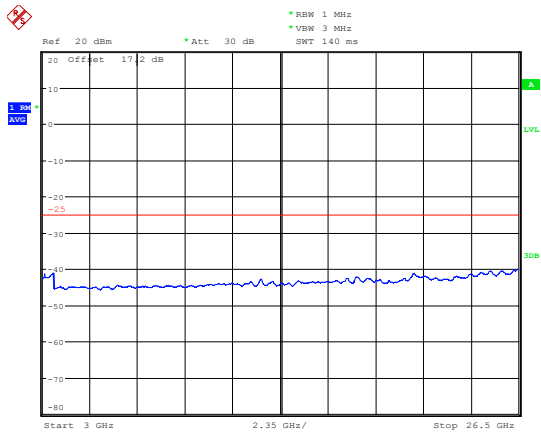
Date: 5.AUG.2019 13:24:54

### CA-38C 15MHz+15MHz CH-High 64QAM 1GHz~3GHz



Date: 5.AUG.2019 13:00:46

### CA-38C 15MHz+15MHz CH-High 64QAM 3GHz~26.5GHz

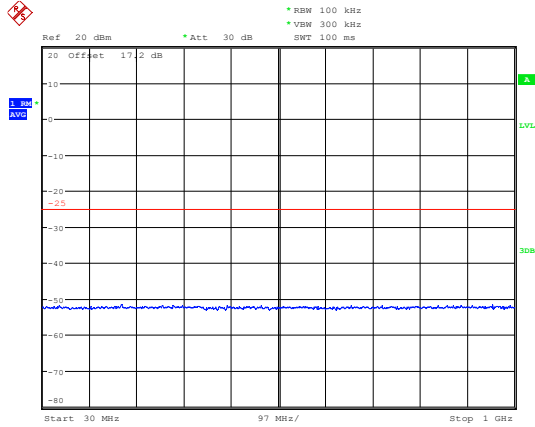


Date: 5.AUG.2019 15:25:25



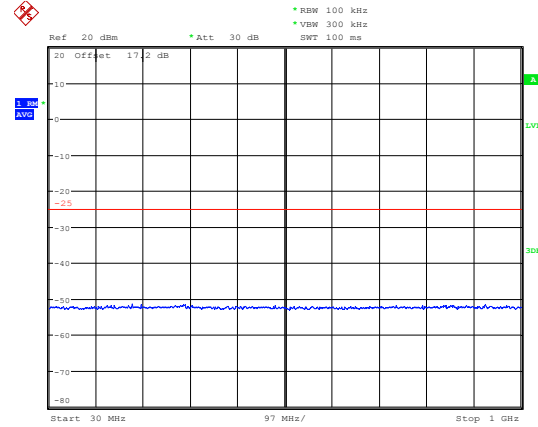


### CA-38C 20MHz+20MHz CH-Low QPSK 30MHz~1GHz



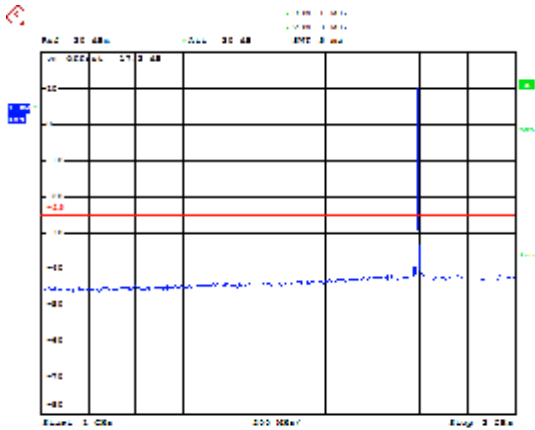
Date: 5.AUG.2019 13:26:19

### CA-38C 20MHz+20MHz CH-Middle QPSK 30MHz~1GHz



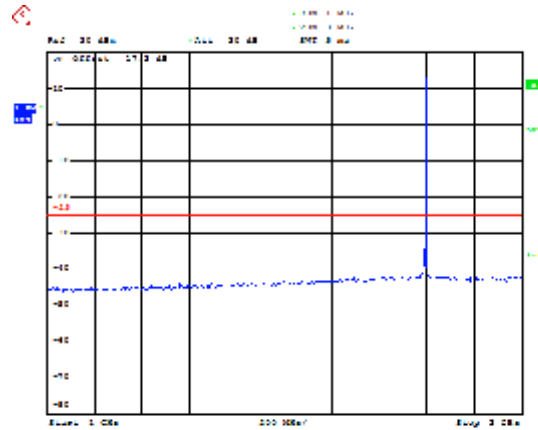
Date: 5.AUG.2019 13:28:37

### CA-38C 20MHz+20MHz CH-Low QPSK 1GHz~3GHz



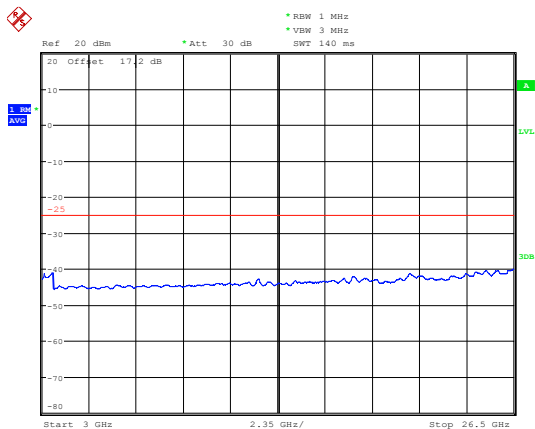
Date: 5.AUG.2019 14:55:45

### CA-38C 20MHz+20MHz CH-Middle QPSK 1GHz~3GHz



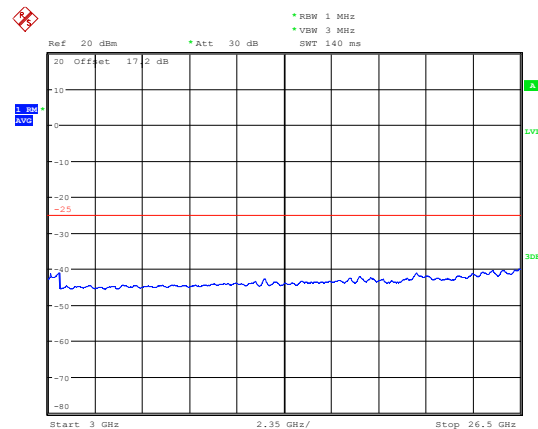
Date: 5.AUG.2019 14:57:28

### CA-38C 20MHz+20MHz CH-Low QPSK 3GHz~26.5GHz



Date: 5.AUG.2019 15:27:00

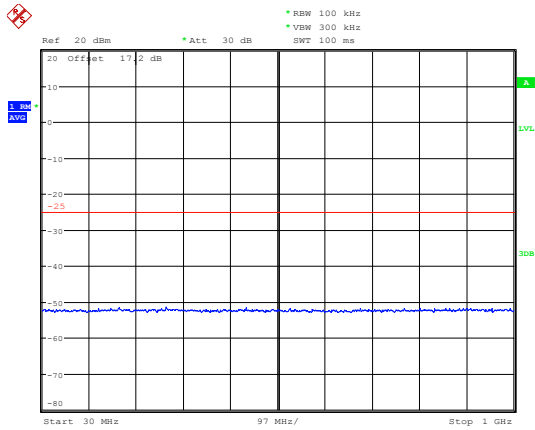
### CA-38C 20MHz+20MHz CH-Middle QPSK 3GHz~26.5GHz



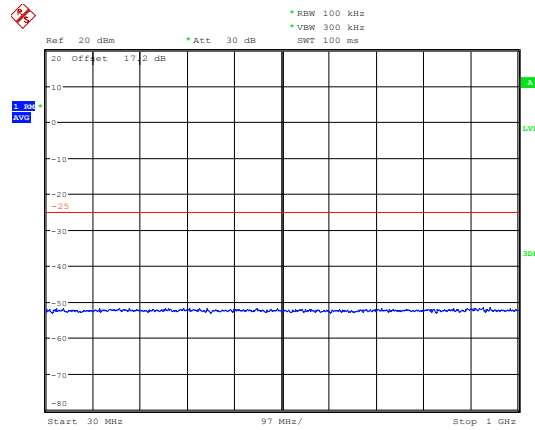
Date: 5.AUG.2019 15:28:31



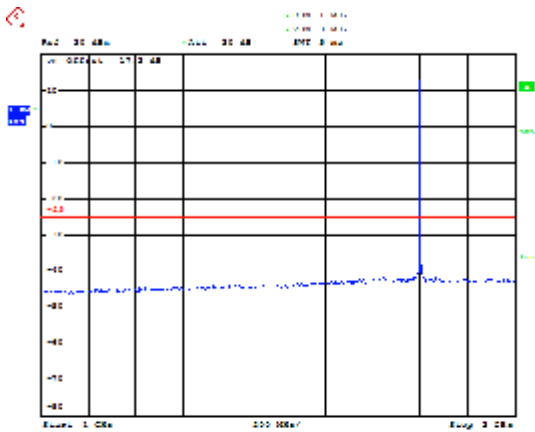
### CA-38C 20MHz+20MHz CH-High QPSK 30MHz~1GHz



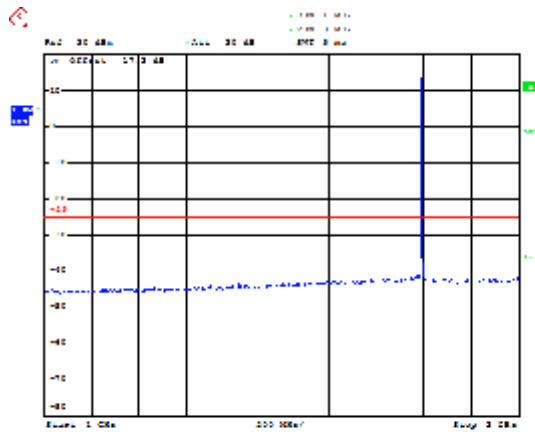
### CA-38C 20MHz+20MHz CH-Low 16QAM 30MHz~1GHz



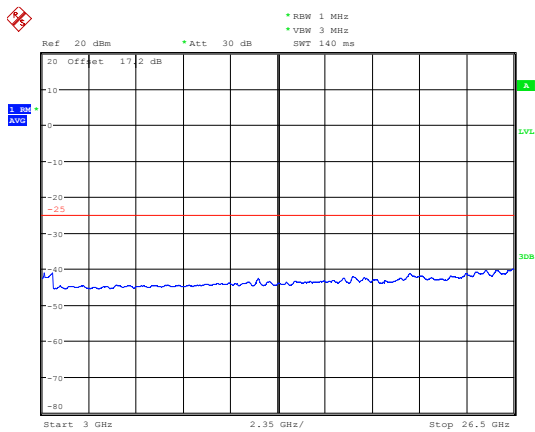
### CA-38C 20MHz+20MHz CH-High QPSK 1GHz~3GHz



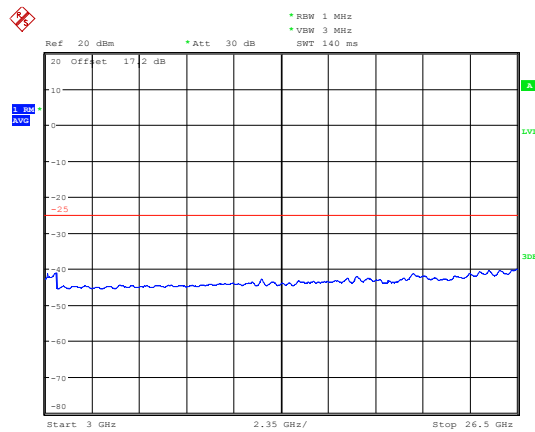
### CA-38C 20MHz+20MHz CH-Low 16QAM 1GHz~3GHz



### CA-38C 20MHz+20MHz CH-High QPSK 3GHz~26.5GHz

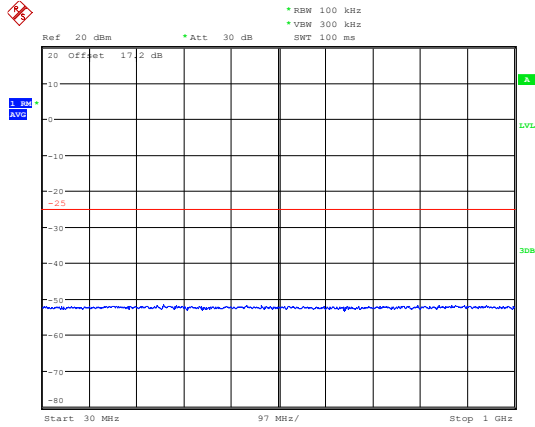


### CA-38C 20MHz+20MHz CH-Low 16QAM 3GHz~26.5GHz



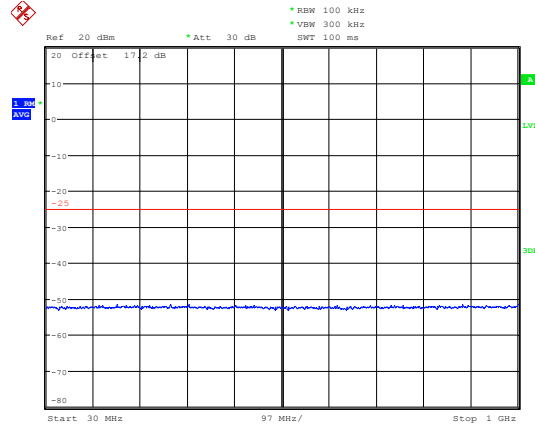


### CA-38C 20MHz+20MHz CH-Middle 16QAM 30MHz~1GHz



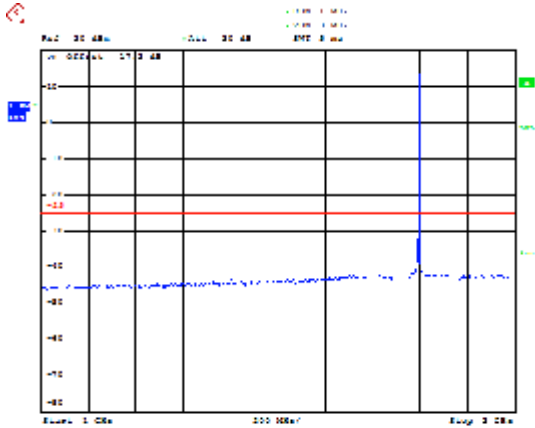
Date: 5.AUG.2019 13:29:06

### CA-38C 20MHz+20MHz CH- High 16QAM 30MHz~1GHz



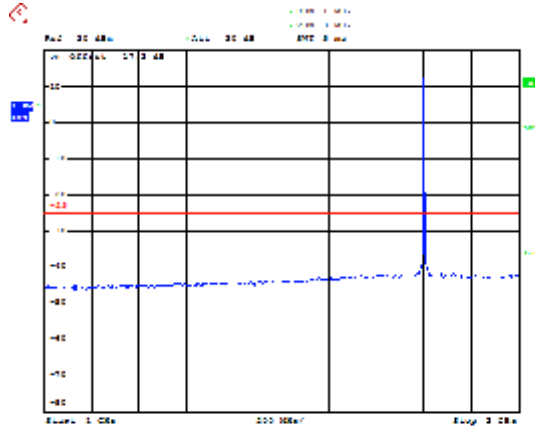
Date: 5.AUG.2019 14:55:49

### CA-38C 20MHz+20MHz CH-Middle 16QAM 1GHz~3GHz



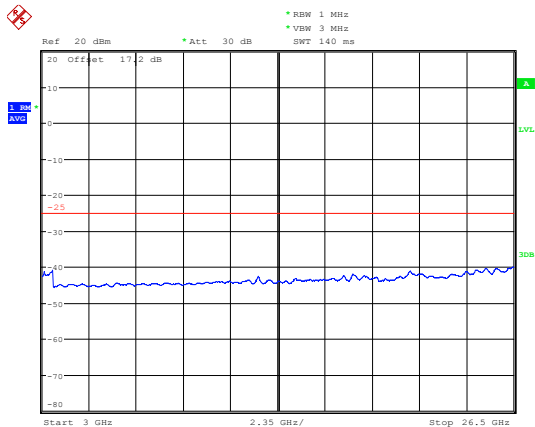
Date: 5.AUG.2019 14:45:14

### CA-38C 20MHz+20MHz CH- High 16QAM 1GHz~3GHz



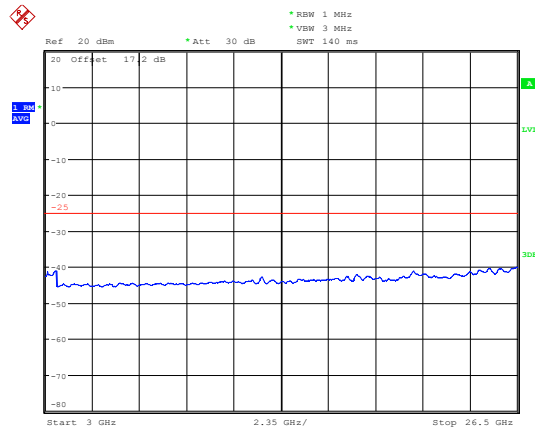
Date: 5.AUG.2019 14:45:14

### CA-38C 20MHz+20MHz CH-Middle 16QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:35:41

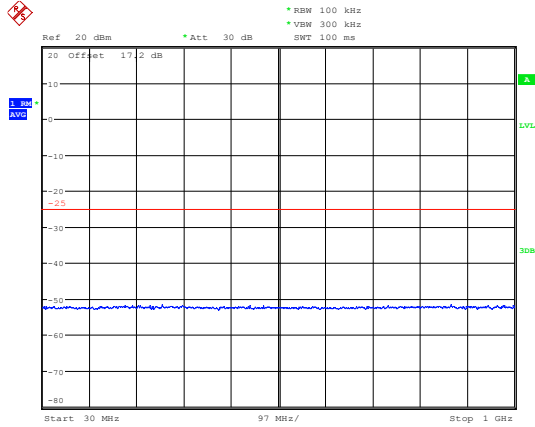
### CA-38C 20MHz+20MHz CH- High 16QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:37:31

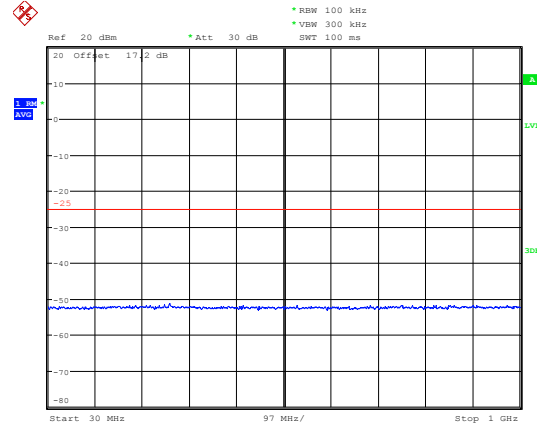


### CA-38C 20MHz+20MHz CH-Low 64QAM 30MHz~1GHz



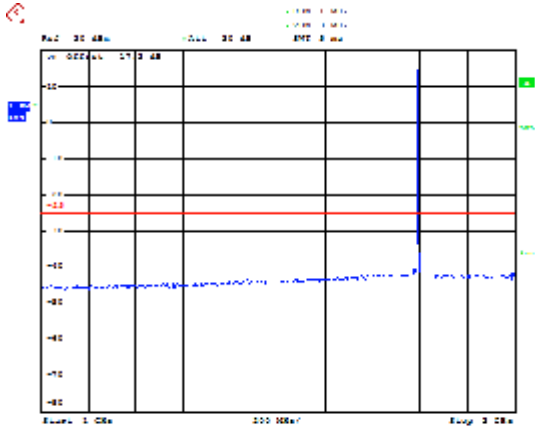
Date: 5.AUG.2019 13:27:31

### CA-38C 20MHz+20MHz CH-Middle 64QAM 30MHz~1GHz



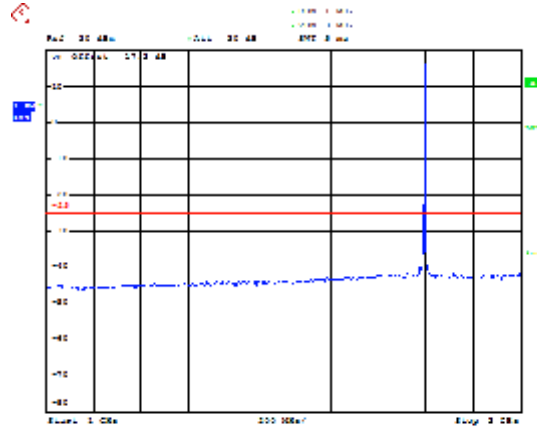
Date: 5.AUG.2019 13:29:41

### CA-38C 20MHz+20MHz CH-Low 64QAM 1GHz~3GHz



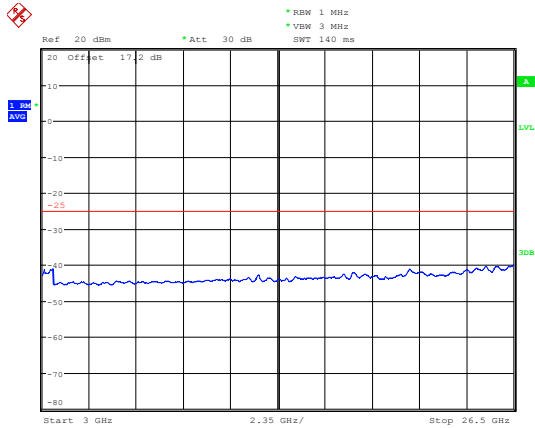
Date: 5.AUG.2019 14:51:18

### CA-38C 20MHz+20MHz CH-Middle 64QAM 1GHz~3GHz



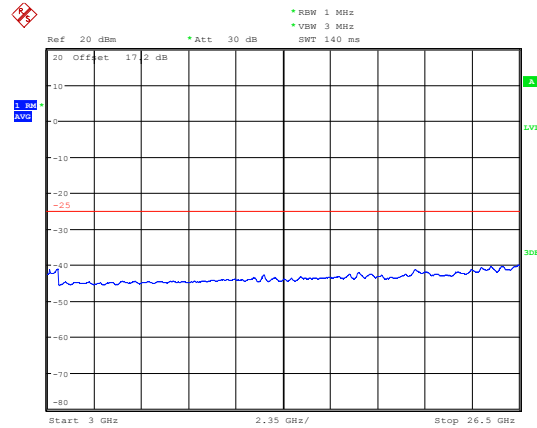
Date: 5.AUG.2019 14:53:55

### CA-38C 20MHz+20MHz CH-Low 64QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:28:06

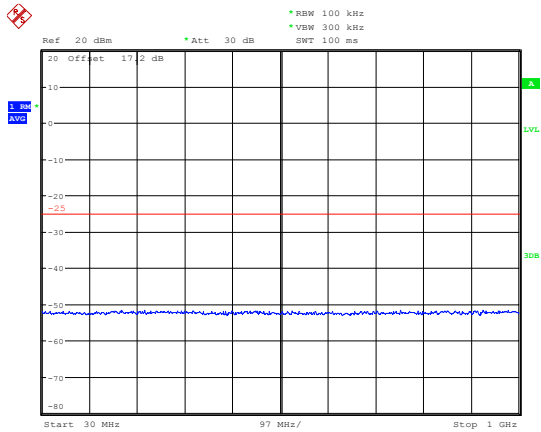
### CA-38C 20MHz+20MHz CH-Middle 64QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:36:33

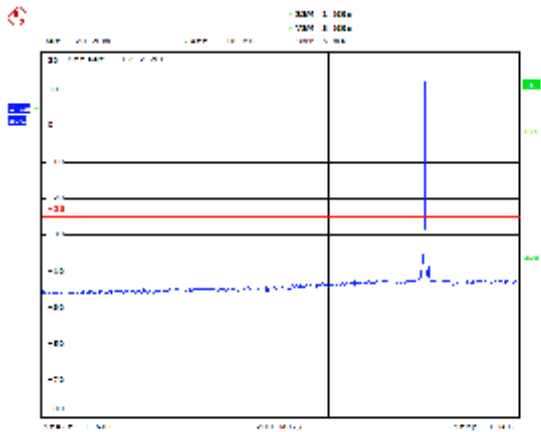


### CA-38C 20MHz+20MHz CH-High 64QAM 30MHz~1GHz



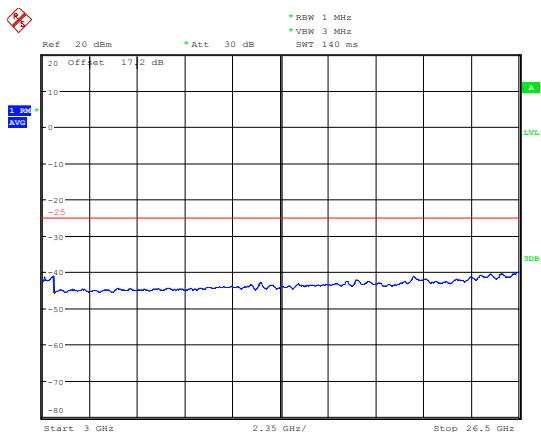
Date: 5.AUG.2019 14:56:16

### CA-38C 20MHz+20MHz CH-High 64QAM 1GHz~3GHz



Date: 5.AUG.2019 14:56:39

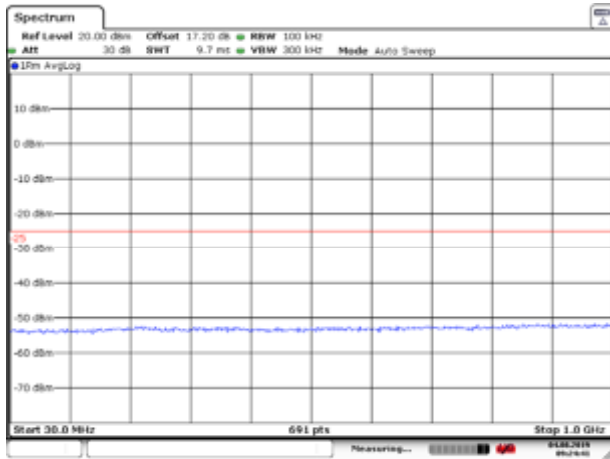
### CA-38C 20MHz+20MHz CH-High 64QAM 3GHz~26.5GHz



Date: 5.AUG.2019 15:38:04

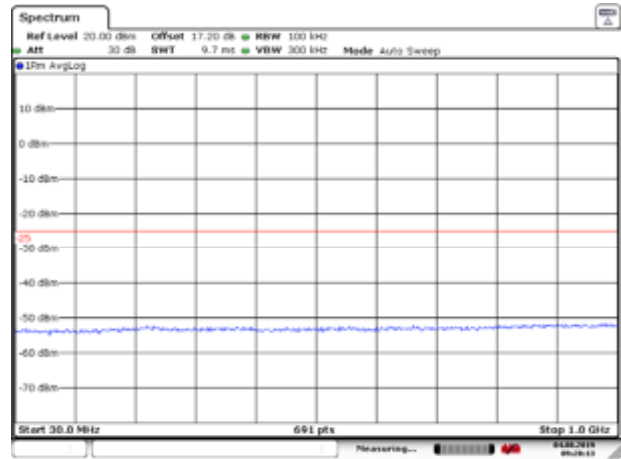


CA-41C 20MHz+5MHz CH-Low QPSK  
30MHz~1GHz



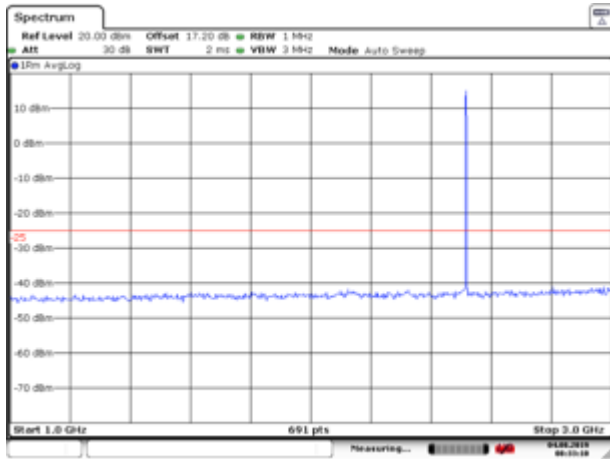
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CA-41C 20MHz+5MHz CH-Middle QPSK  
30MHz~1GHz



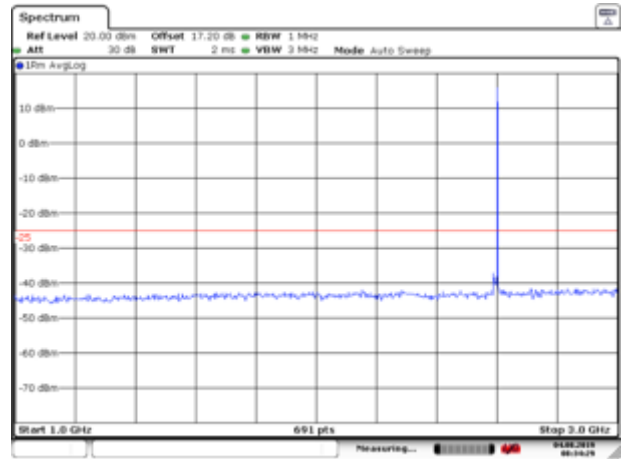
Date: 4 AUG 2019 09:28:13

CA-41C 20MHz+5MHz CH-Low QPSK  
1GHz~3GHz



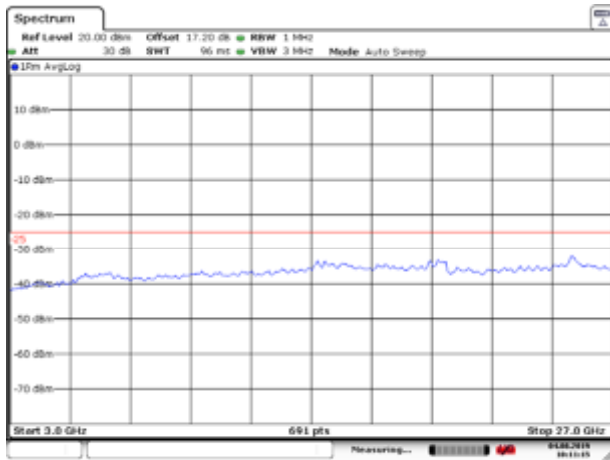
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CA-41C 20MHz+5MHz CH-Middle QPSK  
1GHz~3GHz



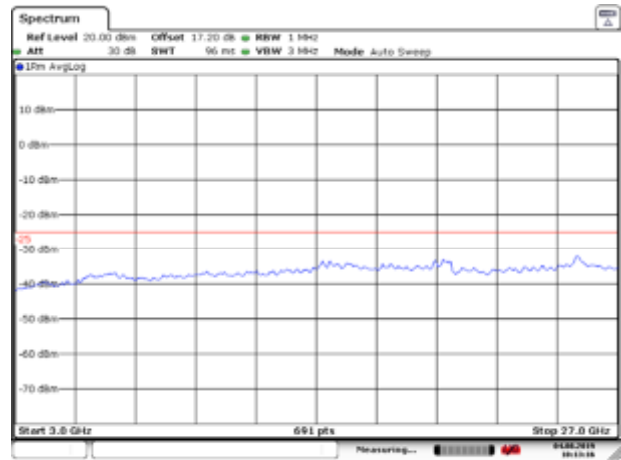
Date: 4 AUG 2019 09:34:30

CA-41C 20MHz+5MHz CH-Low QPSK  
3GHz~27GHz



Date: 4 AUG 2019 10:11:15

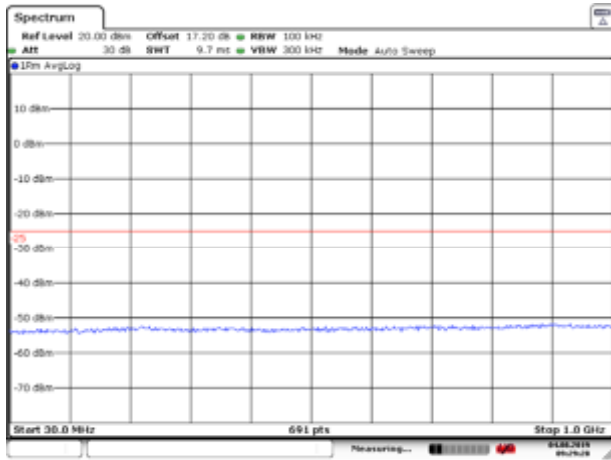
CA-41C 20MHz+5MHz CH-Middle QPSK  
3GHz~27GHz



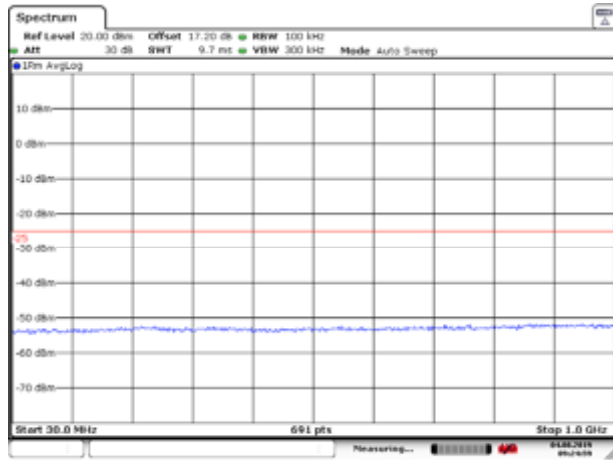
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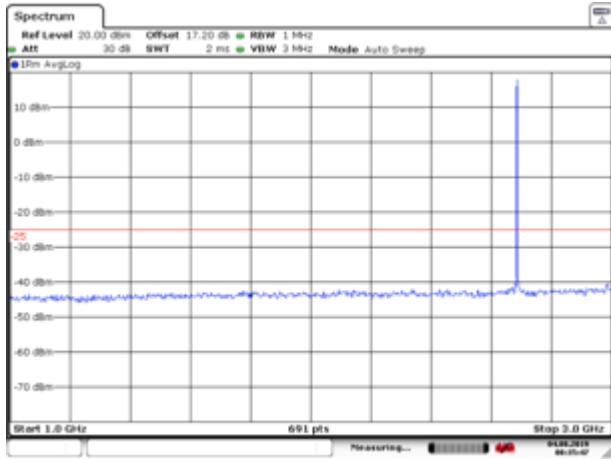
CA-41C 20MHz+5MHz CH-High QPSK  
30MHz~1GHz



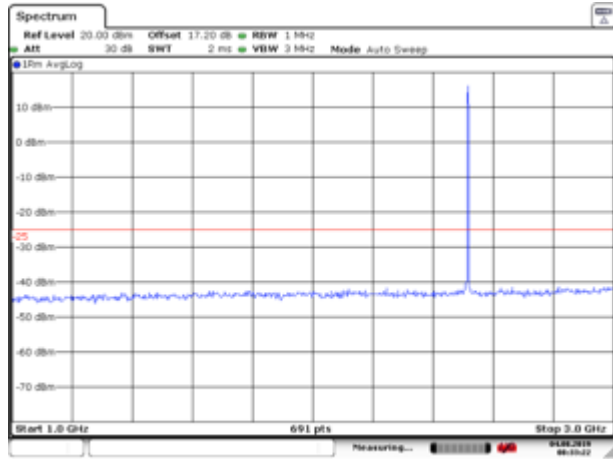
CA-41C 20MHz+5MHz CH-Low 16QAM  
30MHz~1GHz



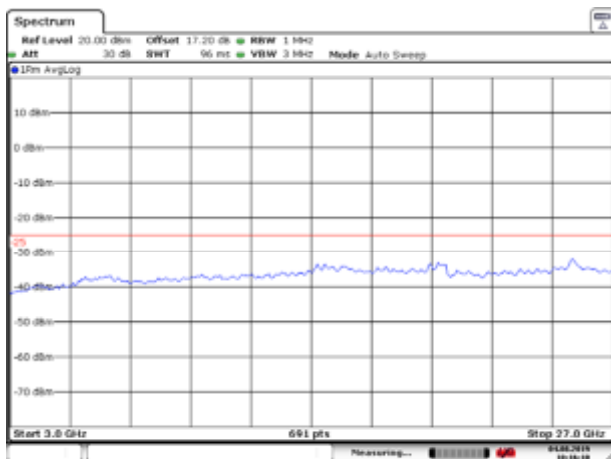
CA-41C 20MHz+5MHz CH-High QPSK  
1GHz~3GHz



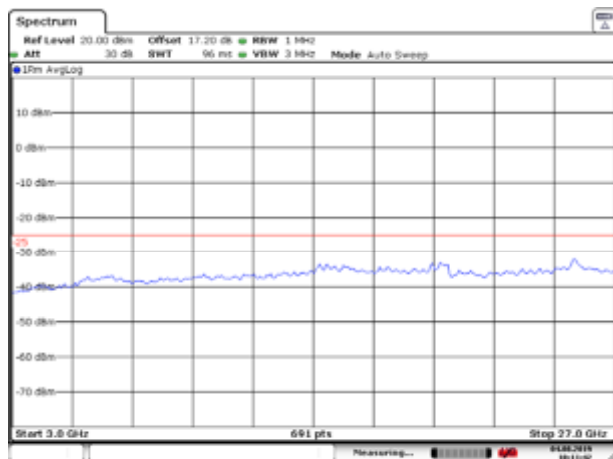
CA-41C 20MHz+5MHz CH-Low 16QAM  
1GHz~3GHz



CA-41C 20MHz+5MHz CH-High QPSK  
3GHz~27GHz

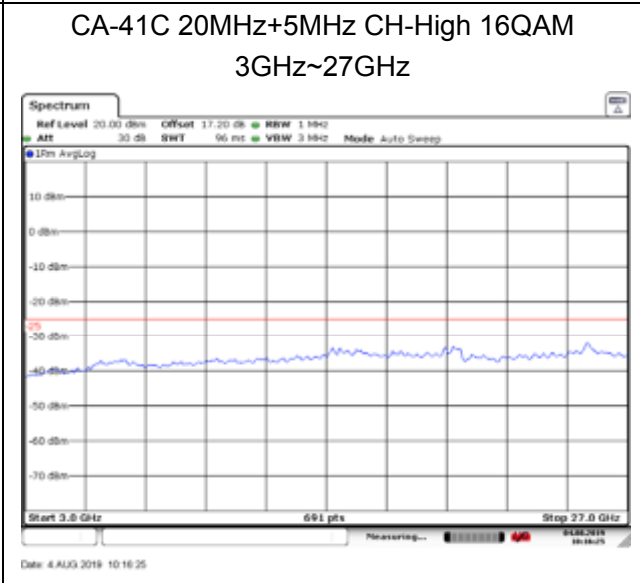
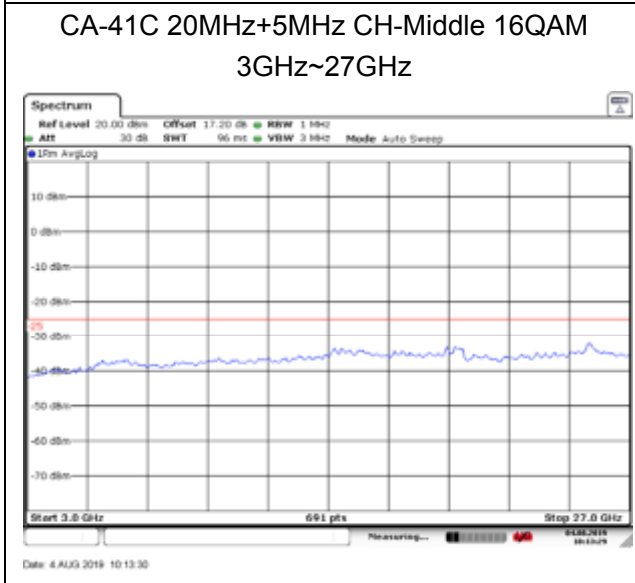
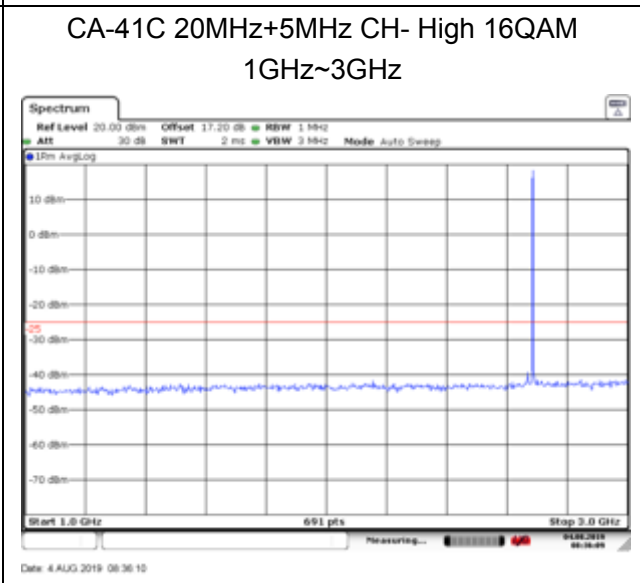
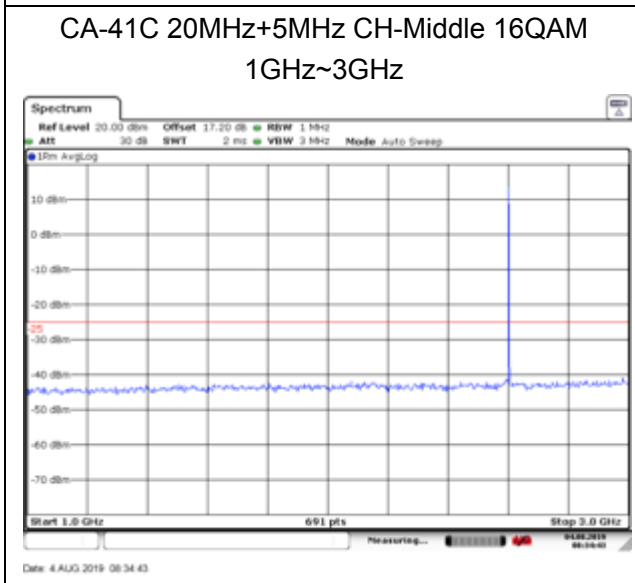
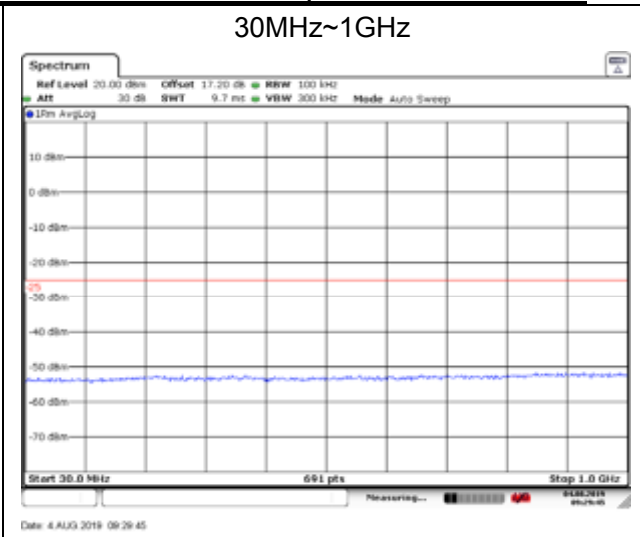
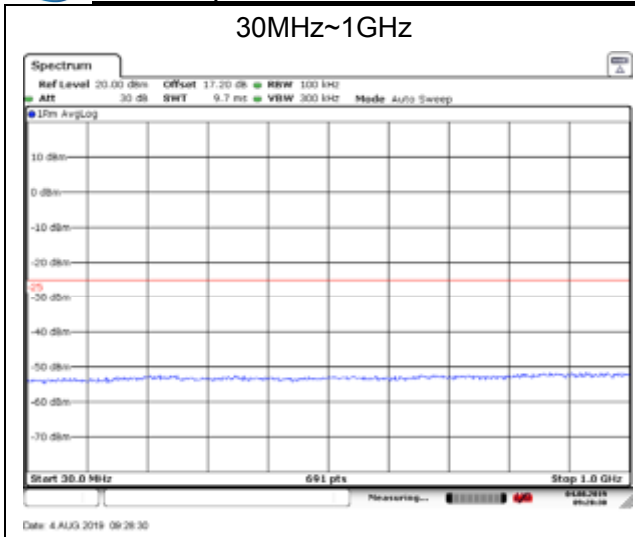


CA-41C 20MHz+5MHz CH-Low 16QAM  
3GHz~27GHz



CA-41C 20MHz+5MHz CH-Middle 16QAM

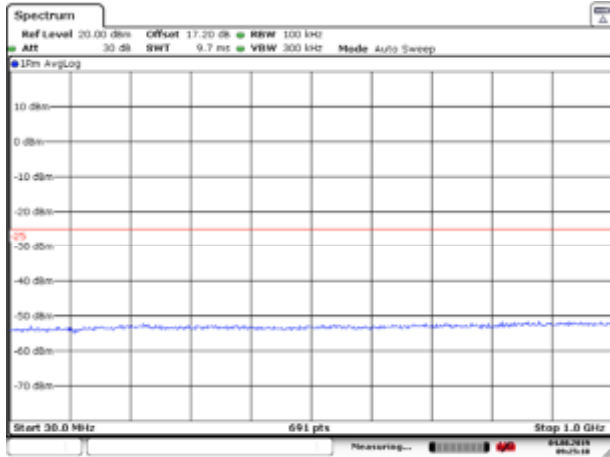
CA-41C 20MHz+5MHz CH- High 16QAM





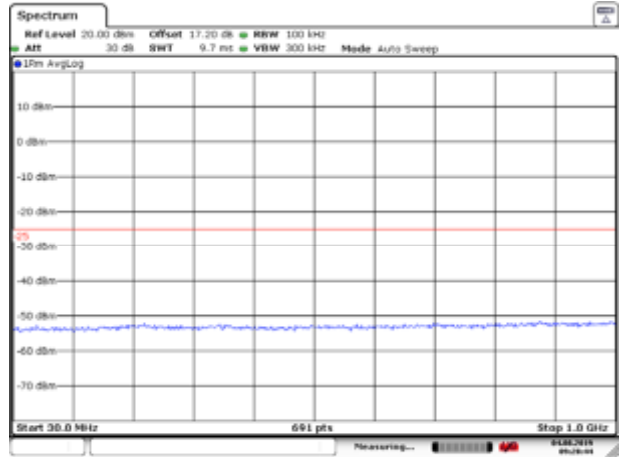


CA-41C 20MHz+5MHz CH-Low 64QAM  
30MHz~1GHz



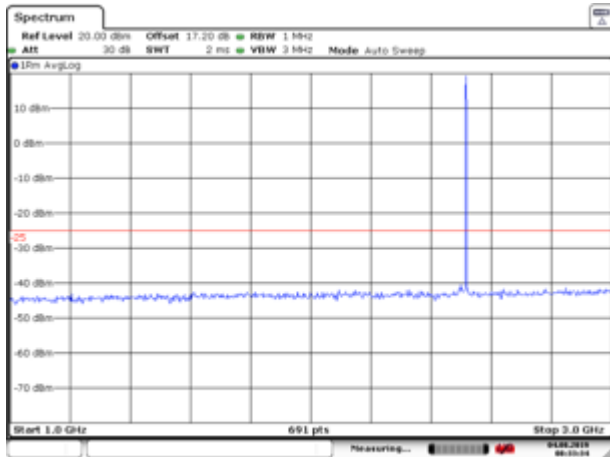
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CA-41C 20MHz+5MHz CH-Middle 64QAM  
30MHz~1GHz



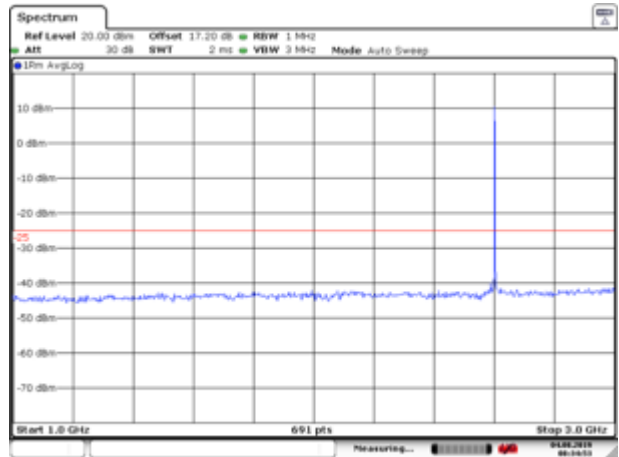
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CA-41C 20MHz+5MHz CH-Low 64QAM  
1GHz~3GHz



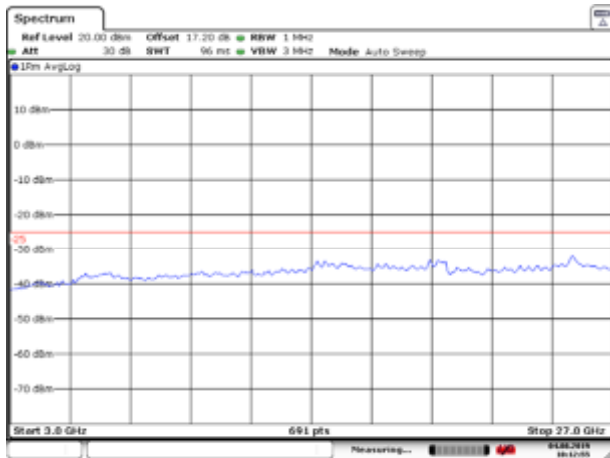
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CA-41C 20MHz+5MHz CH-Middle 64QAM  
1GHz~3GHz



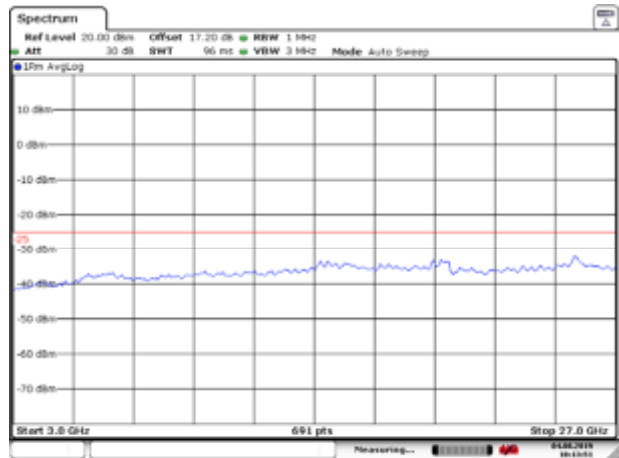
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CA-41C 20MHz+5MHz CH-Low 64QAM  
3GHz~27GHz



Date: 4 AUG 2019 10:12:55

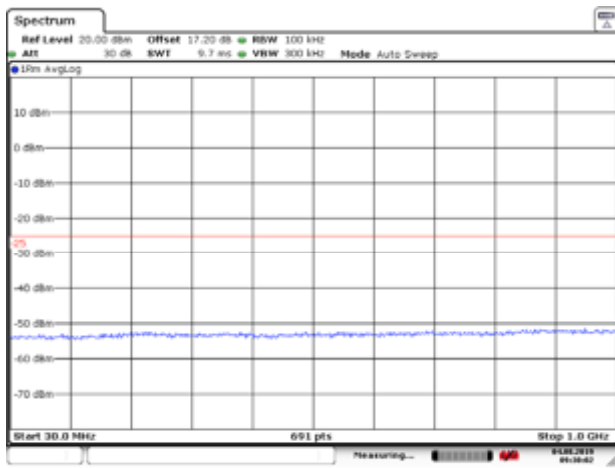
CA-41C 20MHz+5MHz CH-Middle 64QAM  
3GHz~27GHz



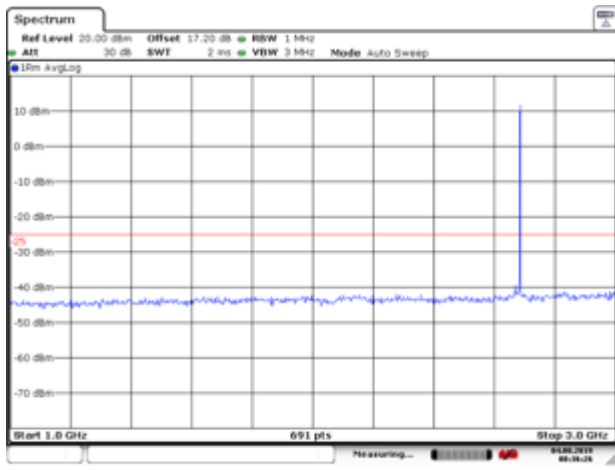
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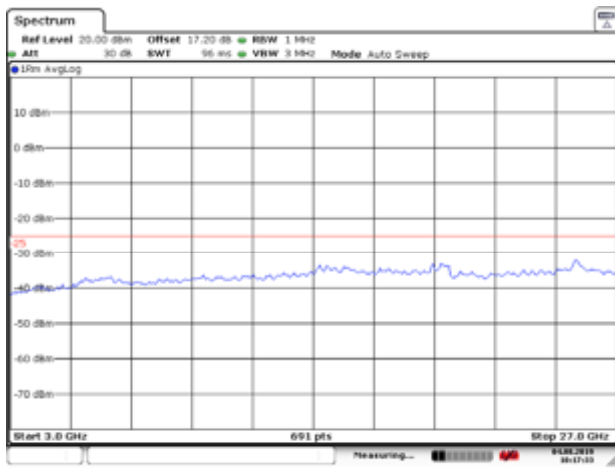
### CA-41C 20MHz+5MHz CH-High 64QAM 30MHz~1GHz



### CA-41C 20MHz+5MHz CH-High 64QAM 1GHz~3GHz

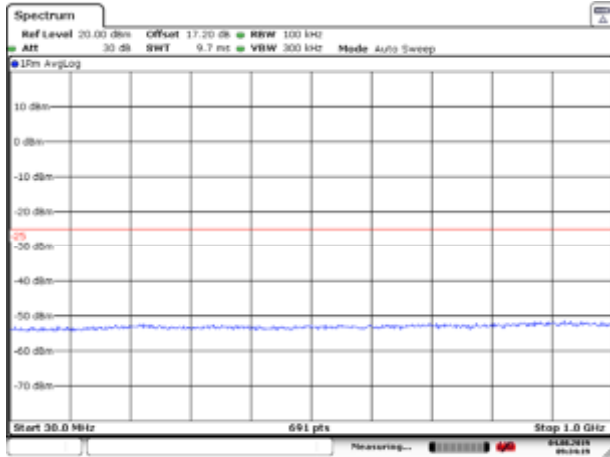


### CA-41C 20MHz+5MHz CH-High 64QAM 3GHz~27GHz



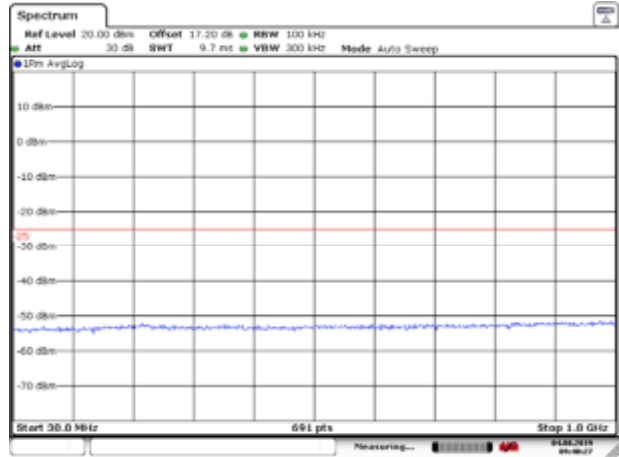


CA-41C 20MHz+20MHz CH-Low QPSK  
30MHz~1GHz



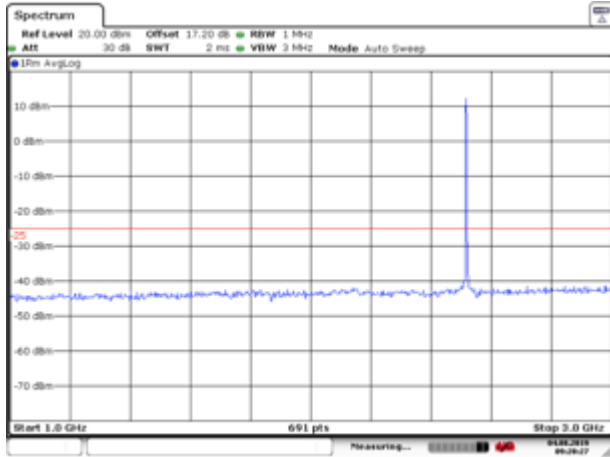
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CA-41C 20MHz+20MHz CH-Middle QPSK  
30MHz~1GHz



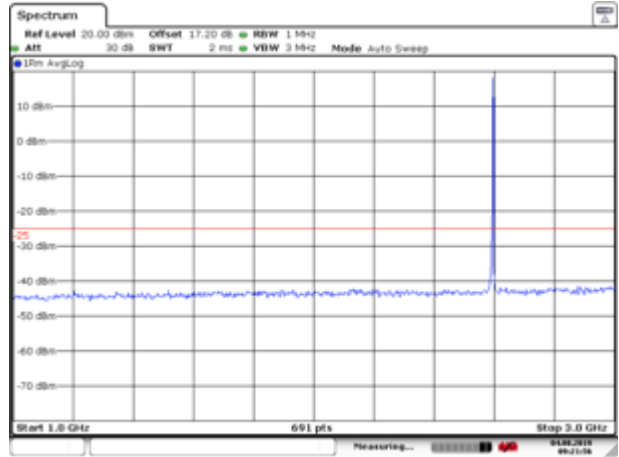
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CA-41C 20MHz+20MHz CH-Low QPSK  
1GHz~3GHz



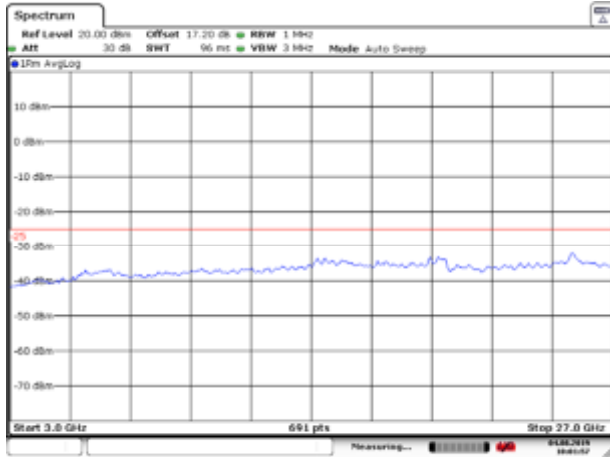
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CA-41C 20MHz+20MHz CH-Middle QPSK  
1GHz~3GHz



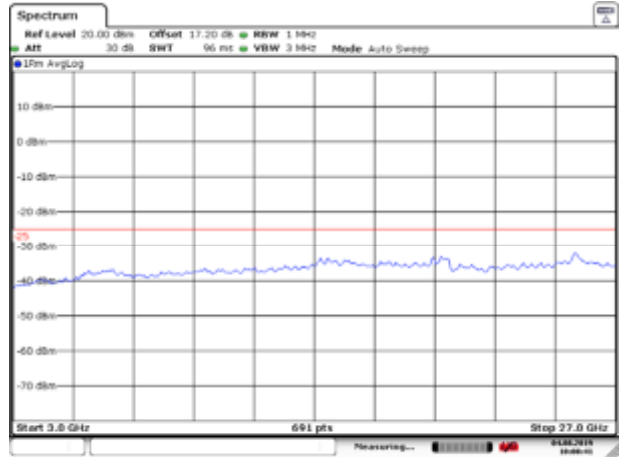
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CA-41C 20MHz+20MHz CH-Low QPSK  
3GHz~27GHz

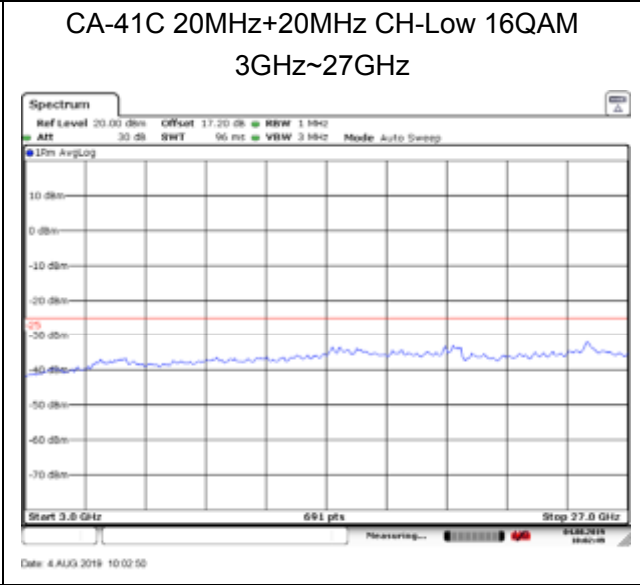
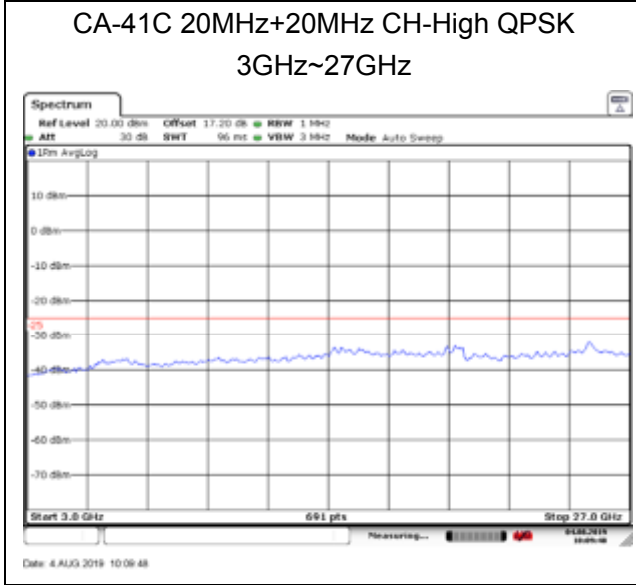
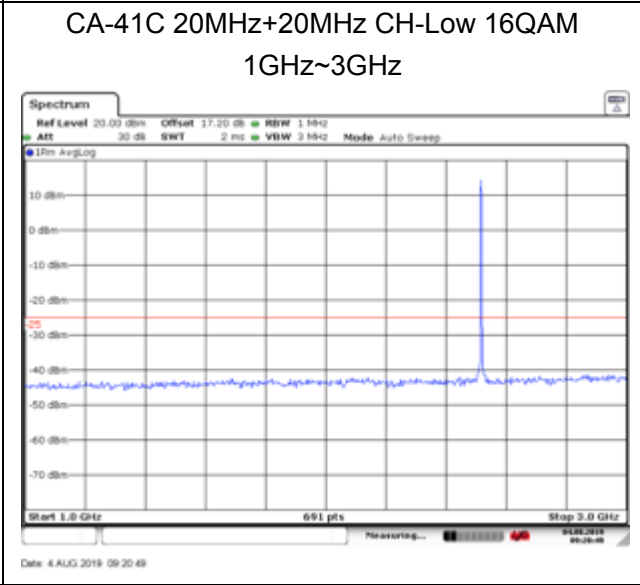
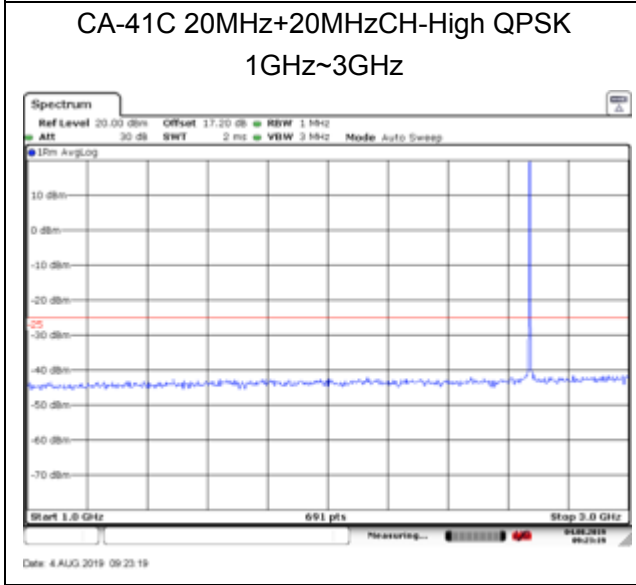
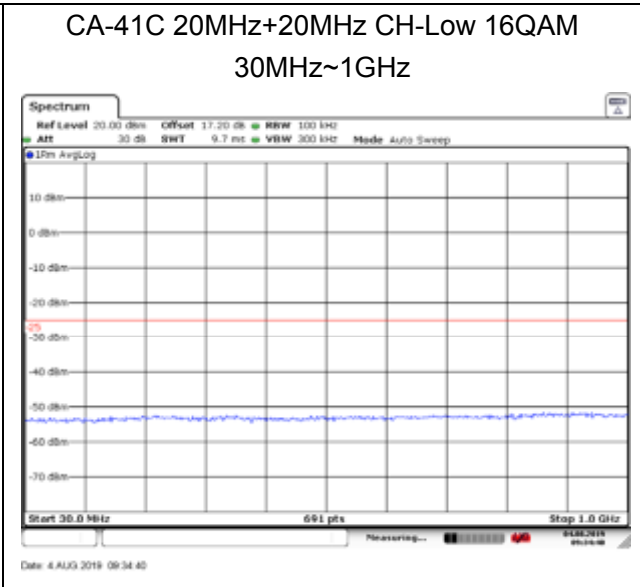
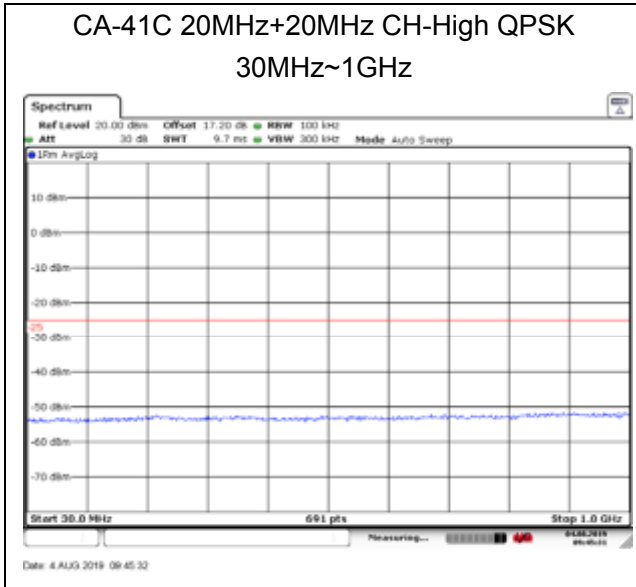


Date: 4 AUG 2019 10:01:57

CA-41C 20MHz+20MHz CH-Middle QPSK  
3GHz~27GHz

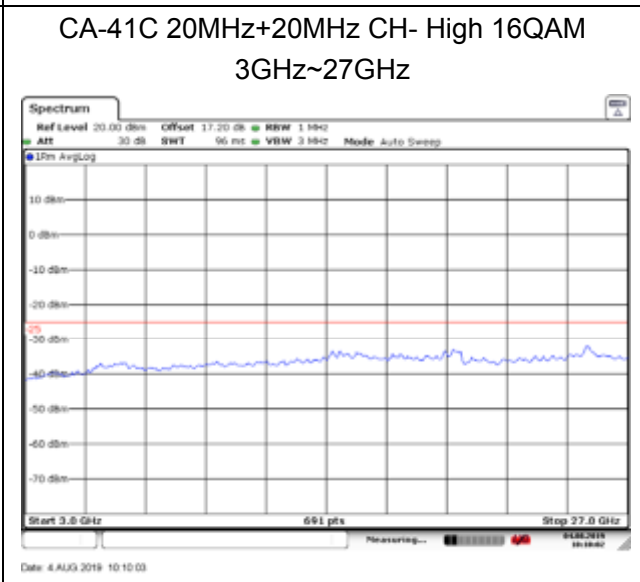
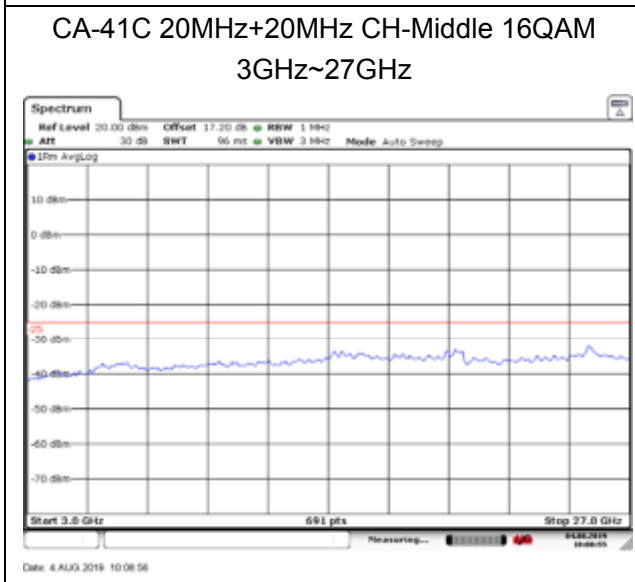
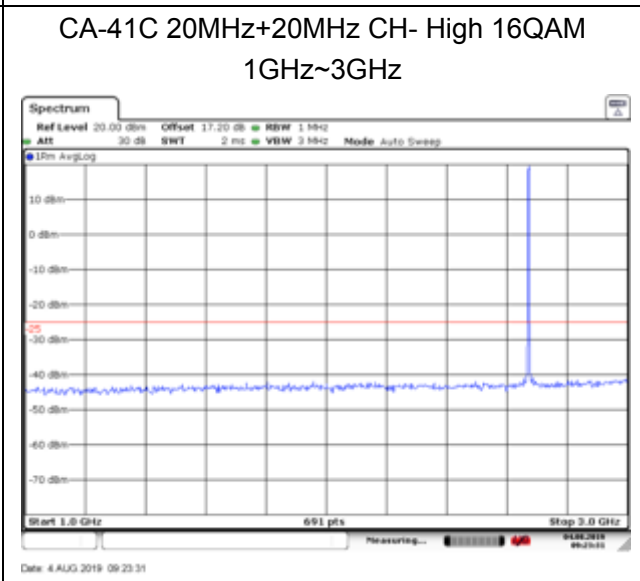
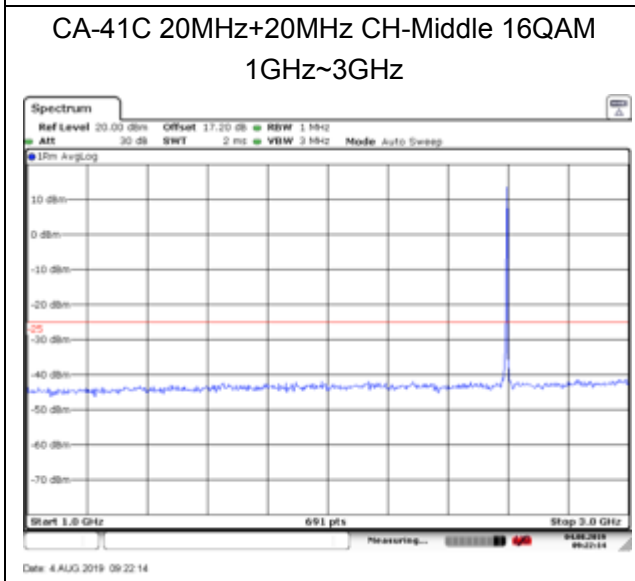
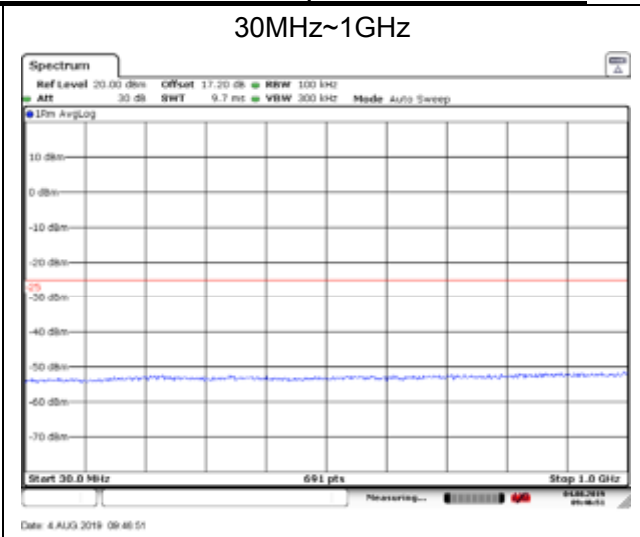
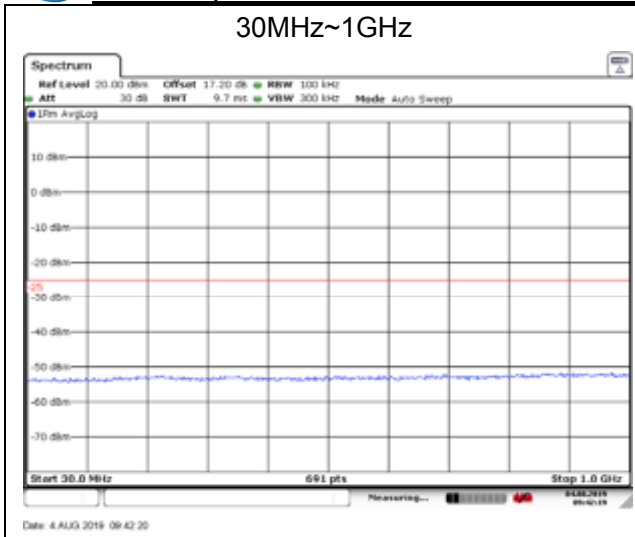


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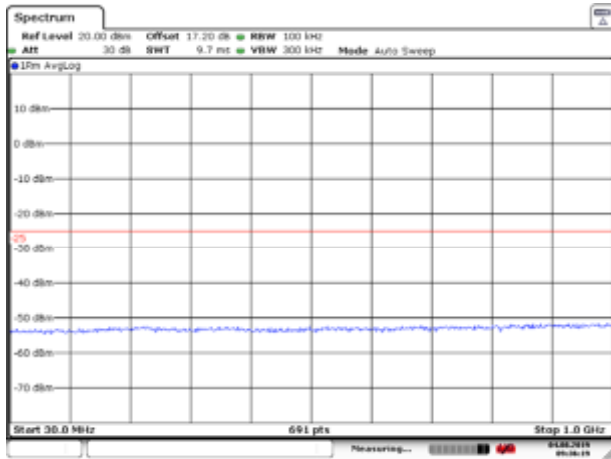
CA-41C 20MHz+20MHz CH-Middle 16QAM

CA-41C 20MHz+20MHz CH- High 16QAM



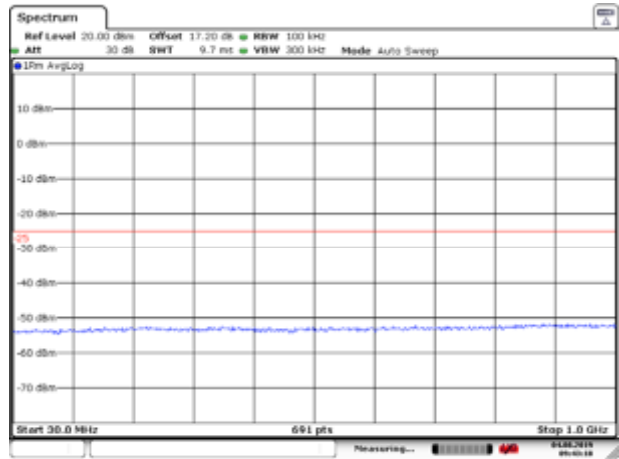


CA-41C 20MHz+20MHz CH-Low 64QAM  
30MHz~1GHz



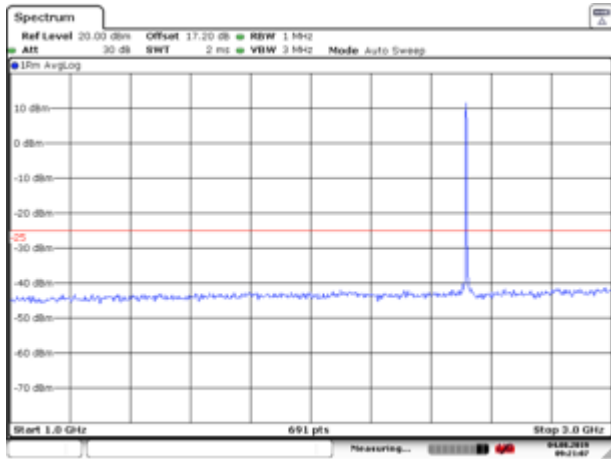
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CA-41C 20MHz+20MHz CH-Middle 64QAM  
30MHz~1GHz



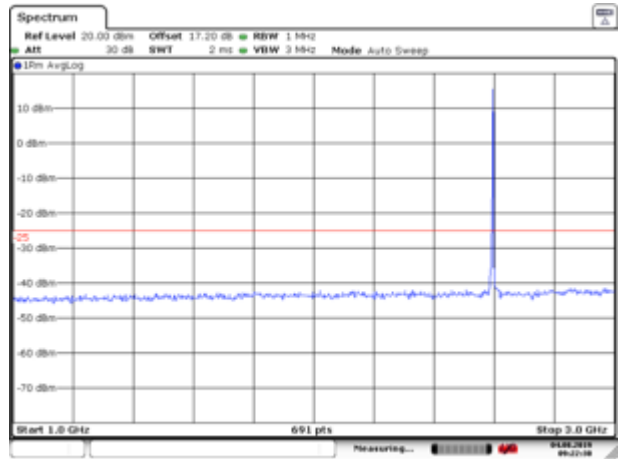
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CA-41C 20MHz+20MHz CH-Low 64QAM  
1GHz~3GHz



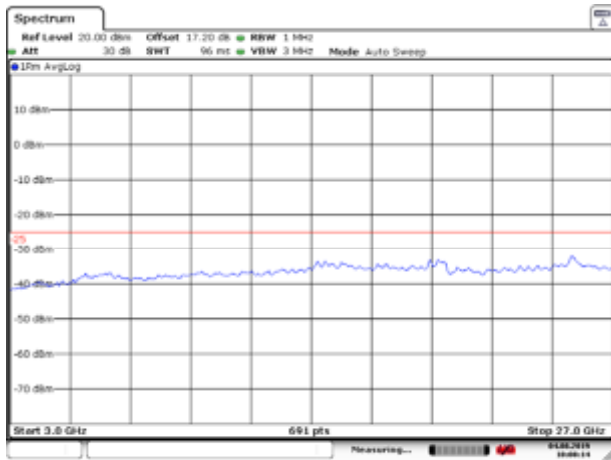
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CA-41C 20MHz+20MHz CH-Middle 64QAM  
1GHz~3GHz



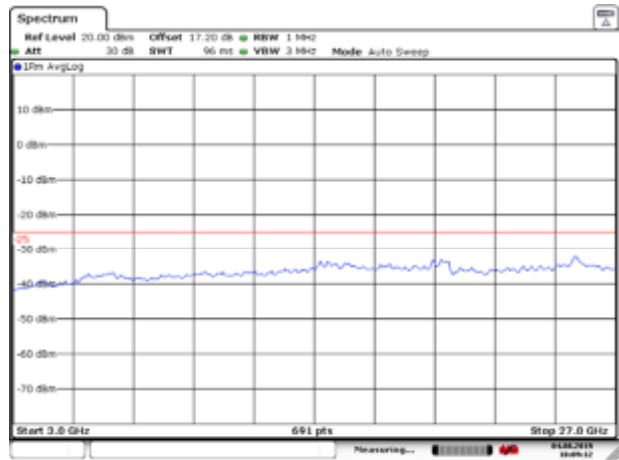
Date: 4 AUG 2019 09:22:30

CA-41C 20MHz+20MHz CH-Low 64QAM  
3GHz~27GHz



Date: 4 AUG 2019 10:08:14

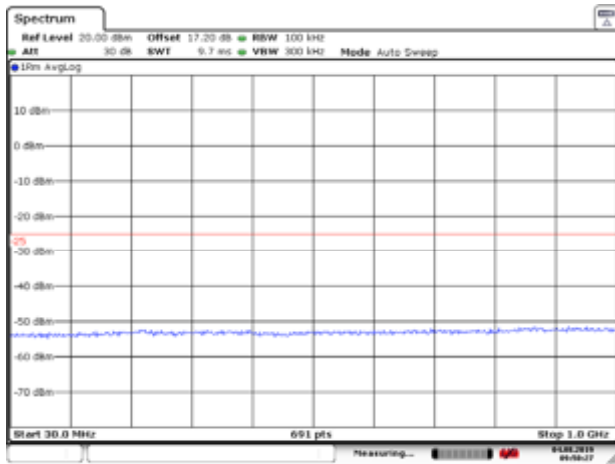
CA-41C 20MHz+20MHz CH-Middle 64QAM  
3GHz~27GHz



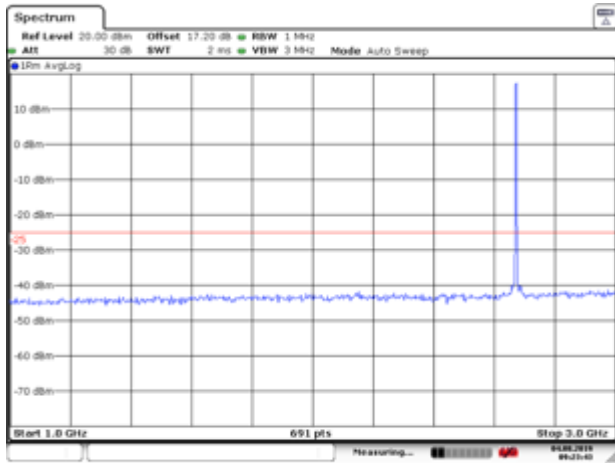
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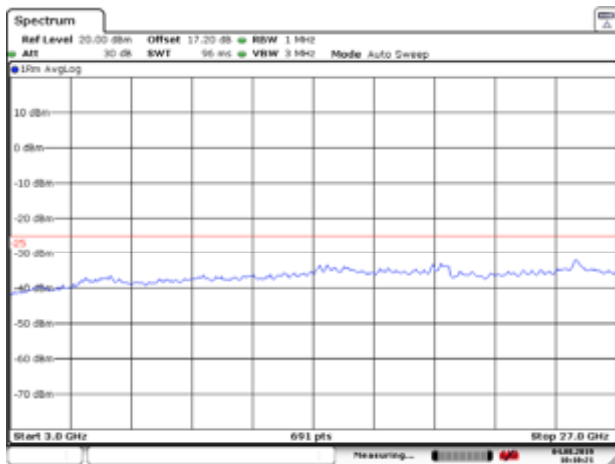
### CA-41C 20MHz+20MHz CH-High 64QAM 30MHz~1GHz



### CA-41C 20MHz+20MHz CH-High 64QAM 1GHz~3GHz



### CA-41C 20MHz+20MHz CH-High 64QAM 3GHz~27GHz



## 5.8 Radiates Spurious Emission

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=200Hz,VBW=600Hz for 9kHz150kHz , RBW=10kHz, VBW=30kHz 150kHz-30MHz ,RBW=100kHz,VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz And the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:  
Power(EIRP)=PMea- PAg - Pcl + Ga  
The measurement results are amend as described below:  
Power(EIRP)=PMea- Pcl + Ga
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

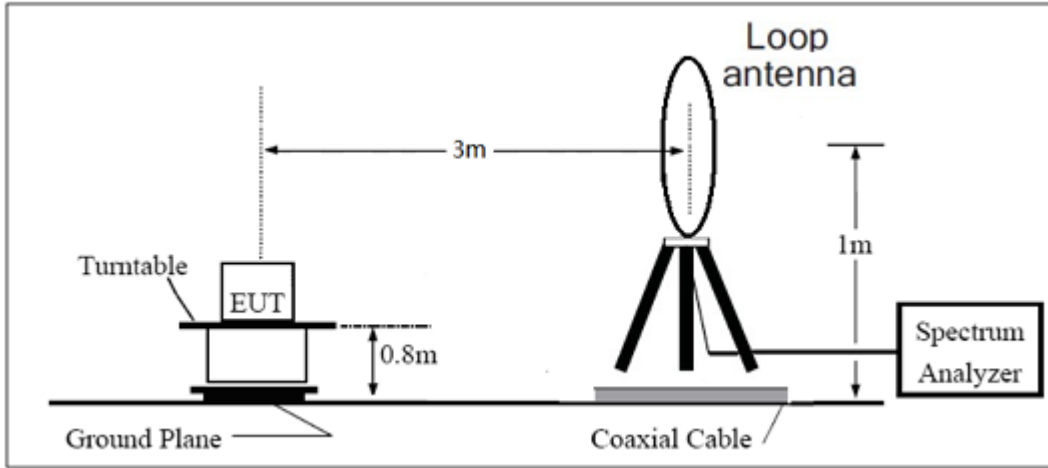


= EIRP-2.15dBi.

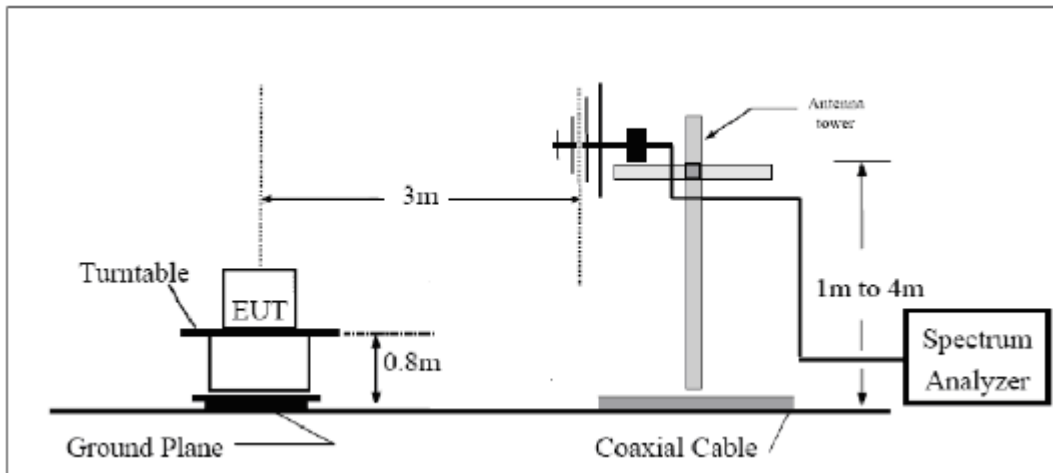
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

**Test setup**

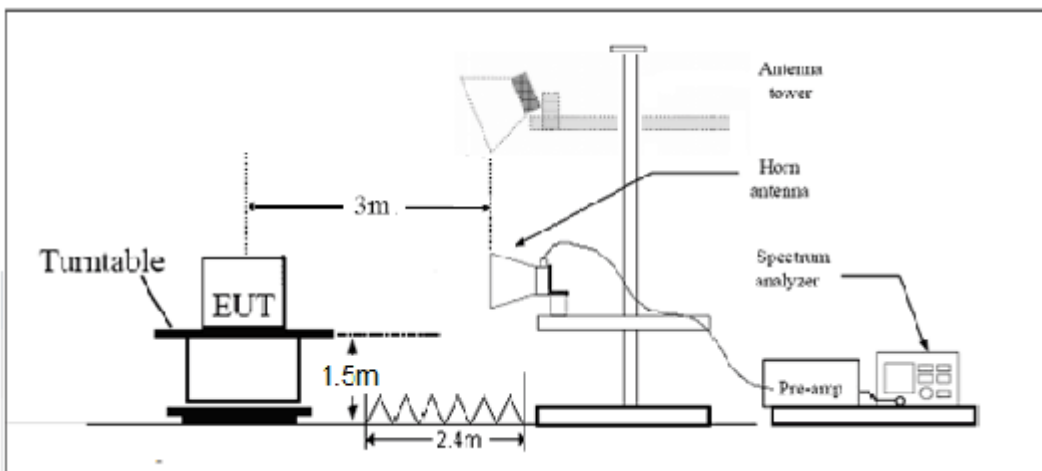
**9KHz ~ 30MHz**



**30MHz ~ 1GHz**



**Above 1GHz**



Note: Area side:2.4mX3.6m



**Limits**

LTE -4 Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.”

LTE -12 Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

LTE -7/38/41 Rule Part 27.53(m)  $55 + 10 \log (P)$  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)(4) of this section.

|                          |         |
|--------------------------|---------|
| Part 27.53 (h)/(g) Limit | -13 dBm |
| Part 27.53(m) Limit      | -25 dBm |

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = \pm 1.96$ ,  $U = \pm 3.55$  dB.

**Test Result**

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

**Main Antenna**

WCDMA Band IV CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3465.2          | -54.35   | 2.6             | 10.75      | Horizontal           | -46.20           | -13.00      | 33.20       | 45            |
| 3        | 5197.8          | -64.26   | 2.4             | 11.05      | Horizontal           | -55.61           | -13.00      | 42.61       | 135           |
| 4        | 6930.4          | -59.63   | 4.5             | 11.15      | Horizontal           | -52.98           | -13.00      | 39.98       | 270           |
| 5        | 8663.0          | -57.51   | 5.1             | 11.35      | Horizontal           | -51.26           | -13.00      | 38.26       | 315           |
| 6        | 10395.6         | -54.74   | 5.3             | 11.95      | Horizontal           | -48.09           | -13.00      | 35.09       | 225           |
| 7        | 12128.2         | -55.35   | 5.5             | 13.55      | Horizontal           | -47.30           | -13.00      | 34.30       | 180           |
| 8        | 13860.8         | -52.62   | 6.3             | 13.75      | Horizontal           | -45.17           | -13.00      | 32.17       | 270           |
| 9        | 15593.4         | -53.55   | 6.7             | 13.85      | Horizontal           | -46.40           | -13.00      | 33.40       | 45            |
| 10       | 17326.0         | -50.49   | 6.8             | 14.25      | Horizontal           | -43.04           | -13.00      | 30.04       | 315           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3464.3          | -54.85   | 2.6             | 10.75      | Horizontal           | -46.70           | -13.00      | 33.70       | 45            |
| 3        | 5197.5          | -56.88   | 2.4             | 11.05      | Horizontal           | -48.23           | -13.00      | 35.23       | 270           |
| 4        | 6930.0          | -59.33   | 4.5             | 11.15      | Horizontal           | -52.68           | -13.00      | 39.68       | 315           |
| 5        | 8662.5          | -57.79   | 5.1             | 11.35      | Horizontal           | -51.54           | -13.00      | 38.54       | 45            |
| 6        | 10395.0         | -54.83   | 5.3             | 11.95      | Horizontal           | -48.18           | -13.00      | 35.18       | 0             |
| 7        | 12127.5         | -55.32   | 5.5             | 13.55      | Horizontal           | -47.27           | -13.00      | 34.27       | 90            |
| 8        | 13860.0         | -51.88   | 6.3             | 13.75      | Horizontal           | -44.43           | -13.00      | 31.43       | 135           |
| 9        | 15592.5         | -53.46   | 6.7             | 13.85      | Horizontal           | -46.31           | -13.00      | 33.31       | 45            |
| 10       | 17325.0         | -51.31   | 6.8             | 14.25      | Horizontal           | -43.86           | -13.00      | 30.86       | 315           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 4 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3460.5          | -55.24   | 2.6             | 10.75      | Horizontal           | -47.09           | -13.00      | 34.09       | 45            |
| 3        | 5191.5          | -61.62   | 2.4             | 11.05      | Horizontal           | -52.97           | -13.00      | 39.97       | 90            |
| 4        | 6930.0          | -59.28   | 4.5             | 11.15      | Horizontal           | -52.63           | -13.00      | 39.63       | 45            |
| 5        | 8662.5          | -57.15   | 5.1             | 11.35      | Horizontal           | -50.90           | -13.00      | 37.90       | 315           |
| 6        | 10395.0         | -55.00   | 5.3             | 11.95      | Horizontal           | -48.35           | -13.00      | 35.35       | 225           |
| 7        | 12127.5         | -54.79   | 5.5             | 13.55      | Horizontal           | -46.74           | -13.00      | 33.74       | 270           |
| 8        | 13860.0         | -52.28   | 6.3             | 13.75      | Horizontal           | -44.83           | -13.00      | 31.83       | 180           |
| 9        | 15592.5         | -55.07   | 6.7             | 13.85      | Horizontal           | -47.92           | -13.00      | 34.92       | 45            |
| 10       | 17325.0         | -51.72   | 6.8             | 14.25      | Horizontal           | -44.27           | -13.00      | 31.27       | 315           |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 4 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3465.0          | -56.28   | 2.6             | 10.75      | Horizontal           | -48.13           | -13.00      | 35.13       | 225           |
| 3        | 5170.9          | -64.81   | 2.4             | 11.05      | Horizontal           | -56.16           | -13.00      | 43.16       | 0             |
| 4        | 6930.0          | -60.07   | 4.5             | 11.15      | Horizontal           | -53.42           | -13.00      | 40.42       | 90            |
| 5        | 8662.5          | -57.98   | 5.1             | 11.35      | Horizontal           | -51.73           | -13.00      | 38.73       | 315           |
| 6        | 10395.0         | -54.48   | 5.3             | 11.95      | Horizontal           | -47.83           | -13.00      | 34.83       | 45            |
| 7        | 12127.5         | -56.13   | 5.5             | 13.55      | Horizontal           | -48.08           | -13.00      | 35.08       | 90            |
| 8        | 13860.0         | -52.54   | 6.3             | 13.75      | Horizontal           | -45.09           | -13.00      | 32.09       | 225           |
| 9        | 15592.5         | -53.64   | 6.7             | 13.85      | Horizontal           | -46.49           | -13.00      | 33.49       | 270           |
| 10       | 17325.0         | -51.89   | 6.8             | 14.25      | Horizontal           | -44.44           | -13.00      | 31.44       | 45            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 7 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -62.88   | 2.00            | 9.15       | Horizontal           | -55.73           | -25.00      | 30.73       | 135           |
| 3        | 7598.6          | -60.86   | 2.50            | 11.35      | Horizontal           | -52.01           | -25.00      | 27.01       | 45            |
| 4        | 10130.6         | -55.62   | 4.20            | 12.05      | Horizontal           | -47.77           | -25.00      | 22.77       | 0             |
| 5        | 12675.0         | -54.28   | 5.20            | 12.85      | Horizontal           | -46.63           | -25.00      | 21.63       | 225           |
| 6        | 15210.0         | -54.14   | 5.50            | 14.23      | Horizontal           | -45.41           | -25.00      | 20.41       | 315           |
| 7        | 17745.0         | -52.14   | 5.70            | 14.15      | Horizontal           | -43.69           | -25.00      | 18.69       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 7 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5052.4          | -63.28   | 2.00            | 10.15      | Horizontal           | -55.13           | -25.00      | 30.13       | 90            |
| 3        | 7605.0          | -60.16   | 2.50            | 11.35      | Horizontal           | -51.31           | -25.00      | 26.31       | 45            |
| 4        | 10140.0         | -55.51   | 4.20            | 12.05      | Horizontal           | -47.66           | -25.00      | 22.66       | 135           |
| 5        | 12675.0         | -56.76   | 5.20            | 14.85      | Horizontal           | -47.11           | -25.00      | 22.11       | 225           |
| 6        | 15210.0         | -53.52   | 5.50            | 13.23      | Horizontal           | -45.79           | -25.00      | 20.79       | 270           |
| 7        | 17745.0         | -50.53   | 5.70            | 12.15      | Horizontal           | -44.08           | -25.00      | 19.08       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -54.82   | 2.00            | 10.75      | Horizontal           | -48.22          | -13.00      | 35.22       | 45            |
| 3        | 2122.5          | -63.36   | 2.51            | 11.05      | Horizontal           | -56.97          | -13.00      | 43.97       | 135           |
| 4        | 2830.0          | -65.34   | 4.20            | 11.15      | Horizontal           | -60.54          | -13.00      | 47.54       | 0             |
| 5        | 3537.5          | -62.14   | 5.20            | 11.15      | Horizontal           | -58.34          | -13.00      | 45.34       | 135           |
| 6        | 4245.0          | -62.25   | 5.50            | 11.95      | Horizontal           | -57.95          | -13.00      | 44.95       | 225           |
| 7        | 4952.5          | -62.62   | 5.70            | 13.55      | Horizontal           | -56.92          | -13.00      | 43.92       | 315           |
| 8        | 5660.0          | -62.07   | 6.30            | 13.75      | Horizontal           | -56.77          | -13.00      | 43.77       | 45            |
| 9        | 6367.5          | -56.78   | 6.80            | 13.85      | Horizontal           | -51.88          | -13.00      | 38.88       | 180           |
| 10       | 7075.0          | -56.93   | 6.90            | 14.25      | Horizontal           | -51.73          | -13.00      | 38.73       | 0             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 12 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -54.21   | 2.00            | 10.75      | Horizontal           | -47.61          | -13.00      | 34.61       | 45            |
| 3        | 2122.5          | -62.56   | 2.51            | 11.05      | Horizontal           | -56.17          | -13.00      | 43.17       | 45            |
| 4        | 2830.0          | -64.84   | 4.20            | 11.15      | Horizontal           | -60.04          | -13.00      | 47.04       | 135           |
| 5        | 3537.5          | -62.04   | 5.20            | 11.15      | Horizontal           | -58.24          | -13.00      | 45.24       | 135           |
| 6        | 4245.0          | -61.45   | 5.50            | 11.95      | Horizontal           | -57.15          | -13.00      | 44.15       | 45            |
| 7        | 4952.5          | -62.11   | 5.70            | 13.55      | Horizontal           | -56.41          | -13.00      | 43.41       | 90            |
| 8        | 5660.0          | -61.70   | 6.30            | 13.75      | Horizontal           | -56.40          | -13.00      | 43.40       | 45            |
| 9        | 6367.5          | -59.85   | 6.80            | 13.85      | Horizontal           | -54.95          | -13.00      | 41.95       | 135           |
| 10       | 7075.0          | -55.31   | 6.90            | 14.25      | Horizontal           | -50.11          | -13.00      | 37.11       | 45            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 12 QPSK 10MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -54.15   | 2.00            | 10.75      | Horizontal           | -47.55          | -13.00      | 34.55       | 45            |
| 3        | 2122.5          | -63.55   | 2.51            | 11.05      | Horizontal           | -57.16          | -13.00      | 44.16       | 315           |
| 4        | 2830.0          | -66.05   | 4.20            | 11.15      | Horizontal           | -61.25          | -13.00      | 48.25       | 270           |
| 5        | 3537.5          | -59.28   | 5.20            | 11.15      | Horizontal           | -55.48          | -13.00      | 42.48       | 135           |
| 6        | 4245.0          | -61.48   | 5.50            | 11.95      | Horizontal           | -57.18          | -13.00      | 44.18       | 45            |
| 7        | 4952.5          | -62.30   | 5.70            | 13.55      | Horizontal           | -56.60          | -13.00      | 43.60       | 315           |
| 8        | 5660.0          | -61.30   | 6.30            | 13.75      | Horizontal           | -56.00          | -13.00      | 43.00       | 90            |
| 9        | 6367.5          | -59.55   | 6.80            | 13.85      | Horizontal           | -54.65          | -13.00      | 41.65       | 270           |
| 10       | 7075.0          | -55.79   | 6.90            | 14.25      | Horizontal           | -50.59          | -13.00      | 37.59       | 45            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 17 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1420.0          | -54.03   | 2.00            | 10.75      | Horizontal           | -47.43          | -13.00      | 34.43       | 45            |
| 3        | 2130.0          | -65.99   | 2.51            | 11.05      | Horizontal           | -59.60          | -13.00      | 46.60       | 135           |
| 4        | 2840.0          | -64.63   | 4.20            | 11.15      | Horizontal           | -59.83          | -13.00      | 46.83       | 225           |
| 5        | 3550.0          | -62.22   | 5.20            | 11.15      | Horizontal           | -58.42          | -13.00      | 45.42       | 135           |
| 6        | 4260.0          | -61.50   | 5.50            | 11.95      | Horizontal           | -57.20          | -13.00      | 44.20       | 45            |
| 7        | 4970.0          | -62.20   | 5.70            | 13.55      | Horizontal           | -56.50          | -13.00      | 43.50       | 90            |
| 8        | 5680.0          | -61.28   | 6.30            | 13.75      | Horizontal           | -55.98          | -13.00      | 42.98       | 315           |
| 9        | 6390.0          | -60.44   | 6.80            | 13.85      | Horizontal           | -55.54          | -13.00      | 42.54       | 45            |
| 10       | 7100.0          | -55.73   | 6.90            | 14.25      | Horizontal           | -50.53          | -13.00      | 37.53       | 270           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 17 QPSK 10MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1420.0          | -54.04   | 2.00            | 10.75      | Horizontal           | -47.44          | -13.00      | 34.44       | 0             |
| 3        | 2130.0          | -63.22   | 2.51            | 11.05      | Horizontal           | -56.83          | -13.00      | 43.83       | 135           |
| 4        | 2840.0          | -65.00   | 4.20            | 11.15      | Horizontal           | -60.20          | -13.00      | 47.20       | 45            |
| 5        | 3550.0          | -62.30   | 5.20            | 11.15      | Horizontal           | -58.50          | -13.00      | 45.50       | 180           |
| 6        | 4260.0          | -61.32   | 5.50            | 11.95      | Horizontal           | -57.02          | -13.00      | 44.02       | 45            |
| 7        | 4970.0          | -62.05   | 5.70            | 13.55      | Horizontal           | -56.35          | -13.00      | 43.35       | 90            |
| 8        | 5680.0          | -61.73   | 6.30            | 13.75      | Horizontal           | -56.43          | -13.00      | 43.43       | 135           |
| 9        | 6390.0          | -59.61   | 6.80            | 13.85      | Horizontal           | -54.71          | -13.00      | 41.71       | 45            |
| 10       | 7100.0          | -55.73   | 6.90            | 14.25      | Horizontal           | -50.53          | -13.00      | 37.53       | 315           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 38 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -63.10   | 2.00            | 9.15       | Horizontal           | -55.95           | -13.00      | 42.95       | 270           |
| 3        | 7785.0          | -59.96   | 2.50            | 11.35      | Horizontal           | -51.11           | -13.00      | 38.11       | 0             |
| 4        | 10380.0         | -55.19   | 4.20            | 12.05      | Horizontal           | -47.34           | -13.00      | 34.34       | 135           |
| 5        | 12975.0         | -54.09   | 5.20            | 12.85      | Horizontal           | -46.44           | -13.00      | 33.44       | 45            |
| 6        | 15570.0         | -53.91   | 5.50            | 14.23      | Horizontal           | -45.18           | -13.00      | 32.18       | 135           |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.





## LTE Band 38 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5172.0          | -61.14   | 2.00            | 10.15      | Horizontal           | -52.99           | -13.00      | 39.99       | 45            |
| 3        | 7785.0          | -59.18   | 2.50            | 11.35      | Horizontal           | -50.33           | -13.00      | 37.33       | 315           |
| 4        | 10380.0         | -56.47   | 4.20            | 12.05      | Horizontal           | -48.62           | -13.00      | 35.62       | 45            |
| 5        | 12975.0         | -56.21   | 5.20            | 14.85      | Horizontal           | -46.56           | -13.00      | 33.56       | 135           |
| 6        | 15570.0         | -56.52   | 5.50            | 13.23      | Horizontal           | -48.79           | -13.00      | 35.79       | 180           |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 41 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 4997.0          | -61.54   | 2.00            | 9.15       | Horizontal           | -54.39           | -25.00      | 29.39       | 45            |
| 3        | 7495.5          | -60.53   | 2.50            | 11.35      | Horizontal           | -51.68           | -25.00      | 26.68       | 270           |
| 4        | 9994.0          | -55.61   | 4.20            | 12.05      | Horizontal           | -47.76           | -25.00      | 22.76       | 315           |
| 5        | 12492.5         | -55.11   | 5.20            | 12.85      | Horizontal           | -47.46           | -25.00      | 22.46       | 45            |
| 6        | 14991.0         | -55.69   | 5.50            | 14.23      | Horizontal           | -46.96           | -25.00      | 21.96       | 135           |
| 7        | 17489.5         | -54.00   | 5.70            | 14.15      | Horizontal           | -45.55           | -25.00      | 20.55       | 45            |
| 8        | 19988.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22486.5         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 24985.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 41 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5186.0          | -64.40   | 2.00            | 10.15      | Horizontal           | -56.25           | -25.00      | 31.25       | 135           |
| 3        | 7779.0          | -58.93   | 2.50            | 11.35      | Horizontal           | -50.08           | -25.00      | 25.08       | 45            |
| 4        | 10372.0         | -55.96   | 4.20            | 12.05      | Horizontal           | -48.11           | -25.00      | 23.11       | 0             |
| 5        | 12965.0         | -55.97   | 5.20            | 14.85      | Horizontal           | -46.32           | -25.00      | 21.32       | 315           |
| 6        | 15558.0         | -54.90   | 5.50            | 13.23      | Horizontal           | -47.17           | -25.00      | 22.17       | 225           |
| 7        | 18151.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 8        | 20744.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 23337.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25930.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-7C 10M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -60.12   | 2.00            | 9.15       | Horizontal           | -52.97           | -25.00      | 27.97       | 45            |
| 3        | 7598.6          | -59.21   | 2.50            | 11.35      | Horizontal           | -50.36           | -25.00      | 25.36       | 90            |
| 4        | 10130.6         | -52.59   | 4.20            | 12.05      | Horizontal           | -44.74           | -25.00      | 19.74       | 45            |
| 5        | 12675.0         | -54.20   | 5.20            | 12.85      | Horizontal           | -46.55           | -25.00      | 21.55       | 225           |
| 6        | 15210.0         | -53.33   | 5.50            | 14.23      | Horizontal           | -44.60           | -25.00      | 19.60       | 315           |
| 7        | 17745.0         | -51.31   | 5.70            | 14.15      | Horizontal           | -42.86           | -25.00      | 17.86       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-7C 20M+10M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -61.20   | 2.00            | 10.15      | Horizontal           | -53.05           | -25.00      | 28.05       | 135           |
| 3        | 7598.6          | -59.44   | 2.50            | 11.35      | Horizontal           | -50.59           | -25.00      | 25.59       | 45            |
| 4        | 10130.6         | -53.44   | 4.20            | 12.05      | Horizontal           | -45.59           | -25.00      | 20.59       | 0             |
| 5        | 12675.0         | -55.28   | 5.20            | 14.85      | Horizontal           | -45.63           | -25.00      | 20.63       | 225           |
| 6        | 15210.0         | -51.74   | 5.50            | 13.23      | Horizontal           | -44.01           | -25.00      | 19.01       | 315           |
| 7        | 17745.0         | -49.49   | 5.70            | 12.15      | Horizontal           | -43.04           | -25.00      | 18.04       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-7C 15M+15M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -60.02   | 2.00            | 9.15       | Horizontal           | -52.87           | -25.00      | 27.87       | 135           |
| 3        | 7598.6          | -59.34   | 2.50            | 11.35      | Horizontal           | -50.49           | -25.00      | 25.49       | 45            |
| 4        | 10130.6         | -53.63   | 4.20            | 12.05      | Horizontal           | -45.78           | -25.00      | 20.78       | 0             |
| 5        | 12675.0         | -53.54   | 5.20            | 12.85      | Horizontal           | -45.89           | -25.00      | 20.89       | 225           |
| 6        | 15210.0         | -53.26   | 5.50            | 14.23      | Horizontal           | -44.53           | -25.00      | 19.53       | 315           |
| 7        | 17745.0         | -51.49   | 5.70            | 14.15      | Horizontal           | -43.04           | -25.00      | 18.04       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-7C 20M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -62.02   | 2.00            | 10.15      | Horizontal           | -53.87           | -25.00      | 28.87       | 135           |
| 3        | 7598.6          | -60.18   | 2.50            | 11.35      | Horizontal           | -51.33           | -25.00      | 26.33       | 45            |
| 4        | 10130.6         | -53.06   | 4.20            | 12.05      | Horizontal           | -45.21           | -25.00      | 20.21       | 0             |
| 5        | 12675.0         | -54.59   | 5.20            | 14.85      | Horizontal           | -44.94           | -25.00      | 19.94       | 225           |
| 6        | 15210.0         | -53.26   | 5.50            | 13.23      | Horizontal           | -45.53           | -25.00      | 20.53       | 315           |
| 7        | 17745.0         | -49.36   | 5.70            | 12.15      | Horizontal           | -42.91           | -25.00      | 17.91       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-12B 5M+5M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -70.56   | 2.00            | 10.75      | Horizontal           | -63.96          | -13.00      | 50.96       | 45            |
| 3        | 2122.5          | -65.49   | 2.51            | 11.05      | Horizontal           | -59.10          | -13.00      | 46.10       | 45            |
| 4        | 2830.0          | -64.88   | 4.20            | 11.15      | Horizontal           | -60.08          | -13.00      | 47.08       | 135           |
| 5        | 3537.5          | -61.23   | 5.20            | 11.15      | Horizontal           | -57.43          | -13.00      | 44.43       | 135           |
| 6        | 4245.0          | -61.66   | 5.50            | 11.95      | Horizontal           | -57.36          | -13.00      | 44.36       | 45            |
| 7        | 4952.5          | -61.40   | 5.70            | 13.55      | Horizontal           | -55.70          | -13.00      | 42.70       | 90            |
| 8        | 5660.0          | -60.86   | 6.30            | 13.75      | Horizontal           | -55.56          | -13.00      | 42.56       | 45            |
| 9        | 6367.5          | -58.99   | 6.80            | 13.85      | Horizontal           | -54.09          | -13.00      | 41.09       | 135           |
| 10       | 7075.0          | -56.13   | 6.90            | 14.25      | Horizontal           | -50.93          | -13.00      | 37.93       | 45            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-12B 5M+10M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -72.26   | 2.00            | 10.75      | Horizontal           | -65.66          | -13.00      | 52.66       | 0             |
| 3        | 2122.5          | -66.18   | 2.51            | 11.05      | Horizontal           | -59.79          | -13.00      | 46.79       | 90            |
| 4        | 2830.0          | -65.01   | 4.20            | 11.15      | Horizontal           | -60.21          | -13.00      | 47.21       | 138           |
| 5        | 3537.5          | -60.80   | 5.20            | 11.15      | Horizontal           | -57.00          | -13.00      | 44.00       | 180           |
| 6        | 4245.0          | -61.39   | 5.50            | 11.95      | Horizontal           | -57.09          | -13.00      | 44.09       | 90            |
| 7        | 4952.5          | -61.73   | 5.70            | 13.55      | Horizontal           | -56.03          | -13.00      | 43.03       | 0             |
| 8        | 5660.0          | -61.48   | 6.30            | 13.75      | Horizontal           | -56.18          | -13.00      | 43.18       | 45            |
| 9        | 6367.5          | -59.22   | 6.80            | 13.85      | Horizontal           | -54.32          | -13.00      | 41.32       | 270           |
| 10       | 7075.0          | -55.97   | 6.90            | 14.25      | Horizontal           | -50.77          | -13.00      | 37.77       | 90            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-38C 15M+15M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -61.77   | 2.00            | 9.15       | Horizontal           | -54.62           | -13.00      | 41.62       | 270           |
| 3        | 7785.0          | -60.23   | 2.50            | 11.35      | Horizontal           | -51.38           | -13.00      | 38.38       | 0             |
| 4        | 10380.0         | -56.77   | 4.20            | 12.05      | Horizontal           | -48.92           | -13.00      | 35.92       | 135           |
| 5        | 12975.0         | -55.25   | 5.20            | 12.85      | Horizontal           | -47.60           | -13.00      | 34.60       | 45            |
| 6        | 15570.0         | -55.62   | 5.50            | 14.23      | Horizontal           | -46.89           | -13.00      | 33.89       | 135           |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-38C 20M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -63.26   | 2.00            | 10.15      | Horizontal           | -55.11           | -13.00      | 42.11       | 270           |
| 3        | 7785.0          | -60.39   | 2.50            | 11.35      | Horizontal           | -51.54           | -13.00      | 38.54       | 0             |
| 4        | 10380.0         | -56.04   | 4.20            | 12.05      | Horizontal           | -48.19           | -13.00      | 35.19       | 135           |
| 5        | 12975.0         | -56.52   | 5.20            | 14.85      | Horizontal           | -46.87           | -13.00      | 33.87       | 45            |
| 6        | 15570.0         | -54.65   | 5.50            | 13.23      | Horizontal           | -46.92           | -13.00      | 33.92       | 135           |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-41C 10M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -61.90   | 2.00            | 9.15       | Horizontal           | -54.75           | -25.00      | 29.75       | 135           |
| 3        | 7598.6          | -59.72   | 2.50            | 11.35      | Horizontal           | -50.87           | -25.00      | 25.87       | 45            |
| 4        | 10130.6         | -55.13   | 4.20            | 12.05      | Horizontal           | -47.28           | -25.00      | 22.28       | 0             |
| 5        | 12675.0         | -53.89   | 5.20            | 12.85      | Horizontal           | -46.24           | -25.00      | 21.24       | 225           |
| 6        | 15210.0         | -54.21   | 5.50            | 14.23      | Horizontal           | -45.48           | -25.00      | 20.48       | 315           |
| 7        | 17745.0         | -51.83   | 5.70            | 14.15      | Horizontal           | -43.38           | -25.00      | 18.38       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-41C 20M+10M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -61.76   | 2.00            | 9.15       | Horizontal           | -54.61           | -25.00      | 29.61       | 135           |
| 3        | 7598.6          | -60.28   | 2.50            | 11.35      | Horizontal           | -51.43           | -25.00      | 26.43       | 45            |
| 4        | 10130.6         | -55.35   | 4.20            | 12.05      | Horizontal           | -47.50           | -25.00      | 22.50       | 0             |
| 5        | 12675.0         | -54.42   | 5.20            | 12.85      | Horizontal           | -46.77           | -25.00      | 21.77       | 225           |
| 6        | 15210.0         | -54.59   | 5.50            | 14.23      | Horizontal           | -45.86           | -25.00      | 20.86       | 315           |
| 7        | 17745.0         | -51.35   | 5.70            | 14.15      | Horizontal           | -42.90           | -25.00      | 17.90       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-41C 15M+15M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -62.49   | 2.00            | 9.15       | Horizontal           | -55.34           | -25.00      | 30.34       | 135           |
| 3        | 7598.6          | -60.46   | 2.50            | 11.35      | Horizontal           | -51.61           | -25.00      | 26.61       | 45            |
| 4        | 10130.6         | -54.63   | 4.20            | 12.05      | Horizontal           | -46.78           | -25.00      | 21.78       | 0             |
| 5        | 12675.0         | -54.49   | 5.20            | 12.85      | Horizontal           | -46.84           | -25.00      | 21.84       | 225           |
| 6        | 15210.0         | -54.25   | 5.50            | 14.23      | Horizontal           | -45.52           | -25.00      | 20.52       | 315           |
| 7        | 17745.0         | -52.10   | 5.70            | 14.15      | Horizontal           | -43.65           | -25.00      | 18.65       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



CA-41C 20M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -63.17   | 2.00            | 9.15       | Horizontal           | -56.02           | -25.00      | 31.02       | 135           |
| 3        | 7598.6          | -60.03   | 2.50            | 11.35      | Horizontal           | -51.18           | -25.00      | 26.18       | 45            |
| 4        | 10130.6         | -56.01   | 4.20            | 12.05      | Horizontal           | -48.16           | -25.00      | 23.16       | 0             |
| 5        | 12675.0         | -54.38   | 5.20            | 12.85      | Horizontal           | -46.73           | -25.00      | 21.73       | 225           |
| 6        | 15210.0         | -54.22   | 5.50            | 14.23      | Horizontal           | -45.49           | -25.00      | 20.49       | 315           |
| 7        | 17745.0         | -53.24   | 5.70            | 14.15      | Horizontal           | -44.79           | -25.00      | 19.79       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



**Second Antenna**

WCDMA Band IV CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3465.2          | -56.41   | 2.6             | 10.75      | Horizontal           | -48.26           | -13.00      | 35.26       | 45            |
| 3        | 5197.8          | -64.02   | 2.4             | 11.05      | Horizontal           | -55.37           | -13.00      | 42.37       | 270           |
| 4        | 6930.4          | -59.84   | 4.5             | 11.15      | Horizontal           | -53.19           | -13.00      | 40.19       | 45            |
| 5        | 8663.0          | -57.66   | 5.1             | 11.35      | Horizontal           | -51.41           | -13.00      | 38.41       | 315           |
| 6        | 10395.6         | -54.35   | 5.3             | 11.95      | Horizontal           | -47.70           | -13.00      | 34.70       | 225           |
| 7        | 12128.2         | -55.25   | 5.5             | 13.55      | Horizontal           | -47.20           | -13.00      | 34.20       | 90            |
| 8        | 13860.8         | -52.88   | 6.3             | 13.75      | Horizontal           | -45.43           | -13.00      | 32.43       | 135           |
| 9        | 15593.4         | -53.59   | 6.7             | 13.85      | Horizontal           | -46.44           | -13.00      | 33.44       | 45            |
| 10       | 17326.0         | -52.32   | 6.8             | 14.25      | Horizontal           | -44.87           | -13.00      | 31.87       | 270           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3464.3          | -55.84   | 2.6             | 10.75      | Horizontal           | -47.69           | -13.00      | 34.69       | 90            |
| 3        | 5197.5          | -62.47   | 2.4             | 11.05      | Horizontal           | -53.82           | -13.00      | 40.82       | 270           |
| 4        | 6930.0          | -60.06   | 4.5             | 11.15      | Horizontal           | -53.41           | -13.00      | 40.41       | 315           |
| 5        | 8662.5          | -55.39   | 5.1             | 11.35      | Horizontal           | -49.14           | -13.00      | 36.14       | 135           |
| 6        | 10395.0         | -54.64   | 5.3             | 11.95      | Horizontal           | -47.99           | -13.00      | 34.99       | 0             |
| 7        | 12127.5         | -55.10   | 5.5             | 13.55      | Horizontal           | -47.05           | -13.00      | 34.05       | 90            |
| 8        | 13860.0         | -51.27   | 6.3             | 13.75      | Horizontal           | -43.82           | -13.00      | 30.82       | 45            |
| 9        | 15592.5         | -54.70   | 6.7             | 13.85      | Horizontal           | -47.55           | -13.00      | 34.55       | 45            |
| 10       | 17325.0         | -51.73   | 6.8             | 14.25      | Horizontal           | -44.28           | -13.00      | 31.28       | 270           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 4 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3460.5          | -56.09   | 2.6             | 10.75      | Horizontal           | -47.94           | -13.00      | 34.94       | 45            |
| 3        | 5191.5          | -65.21   | 2.4             | 11.05      | Horizontal           | -56.56           | -13.00      | 43.56       | 90            |
| 4        | 6930.0          | -60.68   | 4.5             | 11.15      | Horizontal           | -54.03           | -13.00      | 41.03       | 45            |
| 5        | 8662.5          | -58.42   | 5.1             | 11.35      | Horizontal           | -52.17           | -13.00      | 39.17       | 315           |
| 6        | 10395.0         | -55.01   | 5.3             | 11.95      | Horizontal           | -48.36           | -13.00      | 35.36       | 225           |
| 7        | 12127.5         | -55.48   | 5.5             | 13.55      | Horizontal           | -47.43           | -13.00      | 34.43       | 270           |
| 8        | 13860.0         | -49.97   | 6.3             | 13.75      | Horizontal           | -42.52           | -13.00      | 29.52       | 90            |
| 9        | 15592.5         | -55.10   | 6.7             | 13.85      | Horizontal           | -47.95           | -13.00      | 34.95       | 45            |
| 10       | 17325.0         | -51.63   | 6.8             | 14.25      | Horizontal           | -44.18           | -13.00      | 31.18       | 315           |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 4 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3465.0          | -57.17   | 2.6             | 10.75      | Horizontal           | -49.02           | -13.00      | 36.02       | 180           |
| 3        | 5170.9          | -65.06   | 2.4             | 11.05      | Horizontal           | -56.41           | -13.00      | 43.41       | 45            |
| 4        | 6930.0          | -59.98   | 4.5             | 11.15      | Horizontal           | -53.33           | -13.00      | 40.33       | 90            |
| 5        | 8662.5          | -56.97   | 5.1             | 11.35      | Horizontal           | -50.72           | -13.00      | 37.72       | 315           |
| 6        | 10395.0         | -54.16   | 5.3             | 11.95      | Horizontal           | -47.51           | -13.00      | 34.51       | 270           |
| 7        | 12127.5         | -55.82   | 5.5             | 13.55      | Horizontal           | -47.77           | -13.00      | 34.77       | 90            |
| 8        | 13860.0         | -52.55   | 6.3             | 13.75      | Horizontal           | -45.10           | -13.00      | 32.10       | 315           |
| 9        | 15592.5         | -54.37   | 6.7             | 13.85      | Horizontal           | -47.22           | -13.00      | 34.22       | 270           |
| 10       | 17325.0         | -51.69   | 6.8             | 14.25      | Horizontal           | -44.24           | -13.00      | 31.24       | 45            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 7 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -62.52   | 2.00            | 9.15       | Horizontal           | -55.37           | -25.00      | 30.37       | 135           |
| 3        | 7598.6          | -60.47   | 2.50            | 11.35      | Horizontal           | -51.62           | -25.00      | 26.62       | 0             |
| 4        | 10130.6         | -55.17   | 4.20            | 12.05      | Horizontal           | -47.32           | -25.00      | 22.32       | 15            |
| 5        | 12675.0         | -55.36   | 5.20            | 12.85      | Horizontal           | -47.71           | -25.00      | 22.71       | 225           |
| 6        | 15210.0         | -55.51   | 5.50            | 14.23      | Horizontal           | -46.78           | -25.00      | 21.78       | 135           |
| 7        | 17745.0         | -53.06   | 5.70            | 14.15      | Horizontal           | -44.61           | -25.00      | 19.61       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 7 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5052.4          | -62.18   | 2.00            | 10.15      | Horizontal           | -54.03           | -25.00      | 29.03       | 45            |
| 3        | 7605.0          | -59.65   | 2.50            | 11.35      | Horizontal           | -50.80           | -25.00      | 25.80       | 225           |
| 4        | 10140.0         | -51.78   | 4.20            | 12.05      | Horizontal           | -43.93           | -25.00      | 18.93       | 135           |
| 5        | 12675.0         | -56.22   | 5.20            | 14.85      | Horizontal           | -46.57           | -25.00      | 21.57       | 135           |
| 6        | 15210.0         | -54.58   | 5.50            | 13.23      | Horizontal           | -46.85           | -25.00      | 21.85       | 270           |
| 7        | 17745.0         | -51.76   | 5.70            | 12.15      | Horizontal           | -45.31           | -25.00      | 20.31       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -47.06   | 2.00            | 10.75      | Horizontal           | -40.46          | -13.00      | 27.46       | 135           |
| 3        | 2122.5          | -63.01   | 2.51            | 11.05      | Horizontal           | -56.62          | -13.00      | 43.62       | 135           |
| 4        | 2830.0          | -64.61   | 4.20            | 11.15      | Horizontal           | -59.81          | -13.00      | 46.81       | 0             |
| 5        | 3537.5          | -63.35   | 5.20            | 11.15      | Horizontal           | -59.55          | -13.00      | 46.55       | 90            |
| 6        | 4245.0          | -61.66   | 5.50            | 11.95      | Horizontal           | -57.36          | -13.00      | 44.36       | 225           |
| 7        | 4952.5          | -63.10   | 5.70            | 13.55      | Horizontal           | -57.40          | -13.00      | 44.40       | 315           |
| 8        | 5660.0          | -61.99   | 6.30            | 13.75      | Horizontal           | -56.69          | -13.00      | 43.69       | 45            |
| 9        | 6367.5          | -59.99   | 6.80            | 13.85      | Horizontal           | -55.09          | -13.00      | 42.09       | 180           |
| 10       | 7075.0          | -57.14   | 6.90            | 14.25      | Horizontal           | -51.94          | -13.00      | 38.94       | 0             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 12 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -47.72   | 2.00            | 10.75      | Horizontal           | -41.12          | -13.00      | 28.12       | 135           |
| 3        | 2122.5          | -62.59   | 2.51            | 11.05      | Horizontal           | -56.20          | -13.00      | 43.20       | 45            |
| 4        | 2830.0          | -64.81   | 4.20            | 11.15      | Horizontal           | -60.01          | -13.00      | 47.01       | 90            |
| 5        | 3537.5          | -59.03   | 5.20            | 11.15      | Horizontal           | -55.23          | -13.00      | 42.23       | 135           |
| 6        | 4245.0          | -60.28   | 5.50            | 11.95      | Horizontal           | -55.98          | -13.00      | 42.98       | 45            |
| 7        | 4952.5          | -62.98   | 5.70            | 13.55      | Horizontal           | -57.28          | -13.00      | 44.28       | 135           |
| 8        | 5660.0          | -61.33   | 6.30            | 13.75      | Horizontal           | -56.03          | -13.00      | 43.03       | 45            |
| 9        | 6367.5          | -59.90   | 6.80            | 13.85      | Horizontal           | -55.00          | -13.00      | 42.00       | 135           |
| 10       | 7075.0          | -55.77   | 6.90            | 14.25      | Horizontal           | -50.57          | -13.00      | 37.57       | 315           |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 12 QPSK 10MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -46.47   | 2.00            | 10.75      | Horizontal           | -39.87          | -13.00      | 26.87       | 45            |
| 3        | 2122.5          | -60.59   | 2.51            | 11.05      | Horizontal           | -54.20          | -13.00      | 41.20       | 270           |
| 4        | 2830.0          | -63.73   | 4.20            | 11.15      | Horizontal           | -58.93          | -13.00      | 45.93       | 270           |
| 5        | 3537.5          | -61.54   | 5.20            | 11.15      | Horizontal           | -57.74          | -13.00      | 44.74       | 135           |
| 6        | 4245.0          | -61.61   | 5.50            | 11.95      | Horizontal           | -57.31          | -13.00      | 44.31       | 45            |
| 7        | 4952.5          | -62.22   | 5.70            | 13.55      | Horizontal           | -56.52          | -13.00      | 43.52       | 45            |
| 8        | 5660.0          | -61.32   | 6.30            | 13.75      | Horizontal           | -56.02          | -13.00      | 43.02       | 90            |
| 9        | 6367.5          | -59.90   | 6.80            | 13.85      | Horizontal           | -55.00          | -13.00      | 42.00       | 135           |
| 10       | 7075.0          | -56.47   | 6.90            | 14.25      | Horizontal           | -51.27          | -13.00      | 38.27       | 45            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 17 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1420.0          | -45.93   | 2.00            | 10.75      | Horizontal           | -39.33          | -13.00      | 26.33       | 45            |
| 3        | 2130.0          | -63.15   | 2.51            | 11.05      | Horizontal           | -56.76          | -13.00      | 43.76       | 135           |
| 4        | 2840.0          | -64.41   | 4.20            | 11.15      | Horizontal           | -59.61          | -13.00      | 46.61       | 270           |
| 5        | 3550.0          | -62.00   | 5.20            | 11.15      | Horizontal           | -58.20          | -13.00      | 45.20       | 135           |
| 6        | 4260.0          | -61.68   | 5.50            | 11.95      | Horizontal           | -57.38          | -13.00      | 44.38       | 270           |
| 7        | 4970.0          | -61.78   | 5.70            | 13.55      | Horizontal           | -56.08          | -13.00      | 43.08       | 90            |
| 8        | 5680.0          | -62.01   | 6.30            | 13.75      | Horizontal           | -56.71          | -13.00      | 43.71       | 315           |
| 9        | 6390.0          | -60.20   | 6.80            | 13.85      | Horizontal           | -55.30          | -13.00      | 42.30       | 180           |
| 10       | 7100.0          | -56.55   | 6.90            | 14.25      | Horizontal           | -51.35          | -13.00      | 38.35       | 315           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 17 QPSK 10MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1420.0          | -46.42   | 2.00            | 10.75      | Horizontal           | -39.82          | -13.00      | 26.82       | 0             |
| 3        | 2130.0          | -60.31   | 2.51            | 11.05      | Horizontal           | -53.92          | -13.00      | 40.92       | 135           |
| 4        | 2840.0          | -64.90   | 4.20            | 11.15      | Horizontal           | -60.10          | -13.00      | 47.10       | 45            |
| 5        | 3550.0          | -62.06   | 5.20            | 11.15      | Horizontal           | -58.26          | -13.00      | 45.26       | 270           |
| 6        | 4260.0          | -60.94   | 5.50            | 11.95      | Horizontal           | -56.64          | -13.00      | 43.64       | 45            |
| 7        | 4970.0          | -62.54   | 5.70            | 13.55      | Horizontal           | -56.84          | -13.00      | 43.84       | 135           |
| 8        | 5680.0          | -61.91   | 6.30            | 13.75      | Horizontal           | -56.61          | -13.00      | 43.61       | 45            |
| 9        | 6390.0          | -59.46   | 6.80            | 13.85      | Horizontal           | -54.56          | -13.00      | 41.56       | 135           |
| 10       | 7100.0          | -55.88   | 6.90            | 14.25      | Horizontal           | -50.68          | -13.00      | 37.68       | 315           |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 38 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -63.54   | 2.00            | 9.15       | Horizontal           | -56.39           | -13.00      | 43.39       | 135           |
| 3        | 7785.0          | -57.72   | 2.50            | 11.35      | Horizontal           | -48.87           | -13.00      | 35.87       | 0             |
| 4        | 10380.0         | -55.50   | 4.20            | 12.05      | Horizontal           | -47.65           | -13.00      | 34.65       | 135           |
| 5        | 12975.0         | -55.29   | 5.20            | 12.85      | Horizontal           | -47.64           | -13.00      | 34.64       | 45            |
| 6        | 15570.0         | -56.05   | 5.50            | 14.23      | Horizontal           | -47.32           | -13.00      | 34.32       | 270           |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 38 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5172.0          | -64.65   | 2.00            | 10.15      | Horizontal           | -56.50           | -13.00      | 43.50       | 45            |
| 3        | 7785.0          | -61.12   | 2.50            | 11.35      | Horizontal           | -52.27           | -13.00      | 39.27       | 315           |
| 4        | 10380.0         | -57.03   | 4.20            | 12.05      | Horizontal           | -49.18           | -13.00      | 36.18       | 180           |
| 5        | 12975.0         | -55.55   | 5.20            | 14.85      | Horizontal           | -45.90           | -13.00      | 32.90       | 135           |
| 6        | 15570.0         | -55.64   | 5.50            | 13.23      | Horizontal           | -47.91           | -13.00      | 34.91       | 45            |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 41 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 4997.0          | -62.00   | 2.00            | 9.15       | Horizontal           | -54.85           | -25.00      | 29.85       | 315           |
| 3        | 7495.5          | -60.90   | 2.50            | 11.35      | Horizontal           | -52.05           | -25.00      | 27.05       | 270           |
| 4        | 9994.0          | -57.37   | 4.20            | 12.05      | Horizontal           | -49.52           | -25.00      | 24.52       | 315           |
| 5        | 12492.5         | -54.32   | 5.20            | 12.85      | Horizontal           | -46.67           | -25.00      | 21.67       | 45            |
| 6        | 14991.0         | -54.37   | 5.50            | 14.23      | Horizontal           | -45.64           | -25.00      | 20.64       | 135           |
| 7        | 17489.5         | -52.52   | 5.70            | 14.15      | Horizontal           | -44.07           | -25.00      | 19.07       | 135           |
| 8        | 19988.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22486.5         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 24985.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 41 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5186.0          | -63.90   | 2.00            | 10.15      | Horizontal           | -55.75           | -25.00      | 30.75       | 270           |
| 3        | 7779.0          | -57.57   | 2.50            | 11.35      | Horizontal           | -48.72           | -25.00      | 23.72       | 45            |
| 4        | 10372.0         | -57.52   | 4.20            | 12.05      | Horizontal           | -49.67           | -25.00      | 24.67       | 0             |
| 5        | 12965.0         | -56.45   | 5.20            | 14.85      | Horizontal           | -46.80           | -25.00      | 21.80       | 315           |
| 6        | 15558.0         | -55.26   | 5.50            | 13.23      | Horizontal           | -47.53           | -25.00      | 22.53       | 45            |
| 7        | 18151.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 8        | 20744.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 23337.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25930.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-7C 10M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -61.76   | 2.00            | 9.15       | Horizontal           | -54.61           | -25.0       | 29.61       | 180           |
| 3        | 7598.6          | -59.63   | 2.50            | 11.35      | Horizontal           | -50.78           | -25.0       | 25.78       | 45            |
| 4        | 10130.6         | -54.88   | 4.20            | 12.05      | Horizontal           | -47.03           | -25.0       | 22.03       | 135           |
| 5        | 12675.0         | -54.46   | 5.20            | 12.85      | Horizontal           | -46.81           | -25.0       | 21.81       | 270           |
| 6        | 15210.0         | -54.62   | 5.50            | 14.23      | Horizontal           | -45.89           | -25.0       | 20.89       | 45            |
| 7        | 17745.0         | -52.11   | 5.70            | 14.15      | Horizontal           | -43.66           | -25.0       | 18.66       | 0             |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.





## CA-7C 20M+10M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -63.43   | 2.00            | 10.15      | Horizontal           | -55.28           | -25.0       | 30.28       | 45            |
| 3        | 7598.6          | -60.24   | 2.50            | 11.35      | Horizontal           | -51.39           | -25.0       | 26.39       | 135           |
| 4        | 10130.6         | -55.59   | 4.20            | 12.05      | Horizontal           | -47.74           | -25.0       | 22.74       | 90            |
| 5        | 12675.0         | -56.29   | 5.20            | 14.85      | Horizontal           | -46.64           | -25.0       | 21.64       | 180           |
| 6        | 15210.0         | -53.37   | 5.50            | 13.23      | Horizontal           | -45.64           | -25.0       | 20.64       | 270           |
| 7        | 17745.0         | -50.79   | 5.70            | 12.15      | Horizontal           | -44.34           | -25.0       | 19.34       | 0             |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-7C 15M+15M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -61.84   | 2.00            | 9.15       | Horizontal           | -54.69           | -25.0       | 29.69       | 0             |
| 3        | 7598.6          | -60.12   | 2.50            | 11.35      | Horizontal           | -51.27           | -25.0       | 26.27       | 45            |
| 4        | 10130.6         | -55.34   | 4.20            | 12.05      | Horizontal           | -47.49           | -25.0       | 22.49       | 270           |
| 5        | 12675.0         | -54.49   | 5.20            | 12.85      | Horizontal           | -46.84           | -25.0       | 21.84       | 90            |
| 6        | 15210.0         | -54.67   | 5.50            | 14.23      | Horizontal           | -45.94           | -25.0       | 20.94       | 135           |
| 7        | 17745.0         | -52.81   | 5.70            | 14.15      | Horizontal           | -44.36           | -25.0       | 19.36       | 45            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-7C 20M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -63.75   | 2.00            | 10.15      | Horizontal           | -55.60           | -25.0       | 30.60       | 45            |
| 3        | 7598.6          | -59.94   | 2.50            | 11.35      | Horizontal           | -51.09           | -25.0       | 26.09       | 90            |
| 4        | 10130.6         | -55.48   | 4.20            | 12.05      | Horizontal           | -47.63           | -25.0       | 22.63       | 0             |
| 5        | 12675.0         | -55.05   | 5.20            | 14.85      | Horizontal           | -45.40           | -25.0       | 20.40       | 270           |
| 6        | 15210.0         | -53.15   | 5.50            | 13.23      | Horizontal           | -45.42           | -25.0       | 20.42       | 135           |
| 7        | 17745.0         | -50.01   | 5.70            | 12.15      | Horizontal           | -43.56           | -25.0       | 18.56       | 315           |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

## CA-12B 5M+5M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -70.61   | 2.00            | 10.75      | Horizontal           | -64.01          | -13.0       | 51.01       | 90            |
| 3        | 2122.5          | -65.04   | 2.51            | 11.05      | Horizontal           | -58.65          | -13.0       | 45.65       | 180           |
| 4        | 2830.0          | -64.84   | 4.20            | 11.15      | Horizontal           | -60.04          | -13.0       | 47.04       | 45            |
| 5        | 3537.5          | -62.45   | 5.20            | 11.15      | Horizontal           | -58.65          | -13.0       | 45.65       | 0             |
| 6        | 4245.0          | -61.73   | 5.50            | 11.95      | Horizontal           | -57.43          | -13.0       | 44.43       | 135           |
| 7        | 4952.5          | -62.41   | 5.70            | 13.55      | Horizontal           | -56.71          | -13.0       | 43.71       | 90            |
| 8        | 5660.0          | -61.37   | 6.30            | 13.75      | Horizontal           | -56.07          | -13.0       | 43.07       | 45            |
| 9        | 6367.5          | -59.92   | 6.80            | 13.85      | Horizontal           | -55.02          | -13.0       | 42.02       | 315           |
| 10       | 7075.0          | -56.00   | 6.90            | 14.25      | Horizontal           | -50.80          | -13.0       | 37.80       | 270           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.



## CA-12B 5M+10M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2        | 1415.0          | -70.45   | 2.00            | 10.75      | Horizontal           | -63.85          | -13.0       | 50.85       | 0             |
| 3        | 2122.5          | -65.67   | 2.51            | 11.05      | Horizontal           | -59.28          | -13.0       | 46.28       | 135           |
| 4        | 2830.0          | -64.96   | 4.20            | 11.15      | Horizontal           | -60.16          | -13.0       | 47.16       | 90            |
| 5        | 3537.5          | -61.63   | 5.20            | 11.15      | Horizontal           | -57.83          | -13.0       | 44.83       | 45            |
| 6        | 4245.0          | -61.91   | 5.50            | 11.95      | Horizontal           | -57.61          | -13.0       | 44.61       | 135           |
| 7        | 4952.5          | -62.31   | 5.70            | 13.55      | Horizontal           | -56.61          | -13.0       | 43.61       | 270           |
| 8        | 5660.0          | -60.83   | 6.30            | 13.75      | Horizontal           | -55.53          | -13.0       | 42.53       | 45            |
| 9        | 6367.5          | -59.39   | 6.80            | 13.85      | Horizontal           | -54.49          | -13.0       | 41.49       | 45            |
| 10       | 7075.0          | -55.86   | 6.90            | 14.25      | Horizontal           | -50.66          | -13.0       | 37.66       | 90            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-38C 15M+15M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -61.71   | 2.00            | 9.15       | Horizontal           | -54.56           | -13.00      | 41.56       | 135           |
| 3        | 7785.0          | -59.13   | 2.50            | 11.35      | Horizontal           | -50.28           | -13.00      | 37.28       | 0             |
| 4        | 10380.0         | -56.09   | 4.20            | 12.05      | Horizontal           | -48.24           | -13.00      | 35.24       | 90            |
| 5        | 12975.0         | -53.72   | 5.20            | 12.85      | Horizontal           | -46.07           | -13.00      | 33.07       | 45            |
| 6        | 15570.0         | -55.44   | 5.50            | 14.23      | Horizontal           | -46.71           | -13.00      | 33.71       | 0             |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-38C 20M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -63.01   | 2.00            | 10.15      | Horizontal           | -54.86           | -13.00      | 41.86       | 180           |
| 3        | 7785.0          | -59.41   | 2.50            | 11.35      | Horizontal           | -50.56           | -13.00      | 37.56       | 135           |
| 4        | 10380.0         | -57.06   | 4.20            | 12.05      | Horizontal           | -49.21           | -13.00      | 36.21       | 270           |
| 5        | 12975.0         | -55.60   | 5.20            | 14.85      | Horizontal           | -45.95           | -13.00      | 32.95       | 90            |
| 6        | 15570.0         | -53.82   | 5.50            | 13.23      | Horizontal           | -46.09           | -13.00      | 33.09       | 45            |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-41C 10M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -63.16   | 2.00            | 9.15       | Horizontal           | -56.01           | -25.0       | 31.01       | 45            |
| 3        | 7598.6          | -59.64   | 2.50            | 11.35      | Horizontal           | -50.79           | -25.0       | 25.79       | 45            |
| 4        | 10130.6         | -56.26   | 4.20            | 12.05      | Horizontal           | -48.41           | -25.0       | 23.41       | 270           |
| 5        | 12675.0         | -53.42   | 5.20            | 12.85      | Horizontal           | -45.77           | -25.0       | 20.77       | 90            |
| 6        | 15210.0         | -54.38   | 5.50            | 14.23      | Horizontal           | -45.65           | -25.0       | 20.65       | 0             |
| 7        | 17745.0         | -51.51   | 5.70            | 14.15      | Horizontal           | -43.06           | -25.0       | 18.06       | 135           |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## CA-41C 20M+10M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -62.83   | 2.00            | 9.15       | Horizontal           | -55.68           | -25.0       | 30.68       | 45            |
| 3        | 7598.6          | -59.50   | 2.50            | 11.35      | Horizontal           | -50.65           | -25.0       | 25.65       | 45            |
| 4        | 10130.6         | -55.91   | 4.20            | 12.05      | Horizontal           | -48.06           | -25.0       | 23.06       | 135           |
| 5        | 12675.0         | -54.01   | 5.20            | 12.85      | Horizontal           | -46.36           | -25.0       | 21.36       | 180           |
| 6        | 15210.0         | -55.10   | 5.50            | 14.23      | Horizontal           | -46.37           | -25.0       | 21.37       | 90            |
| 7        | 17745.0         | -51.93   | 5.70            | 14.15      | Horizontal           | -43.48           | -25.0       | 18.48       | 270           |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## CA-41C 15M+15M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -62.79   | 2.00            | 9.15       | Horizontal           | -55.64           | -25.0       | 30.64       | 0             |
| 3        | 7598.6          | -59.40   | 2.50            | 11.35      | Horizontal           | -50.55           | -25.0       | 25.55       | 0             |
| 4        | 10130.6         | -56.47   | 4.20            | 12.05      | Horizontal           | -48.62           | -25.0       | 23.62       | 45            |
| 5        | 12675.0         | -53.81   | 5.20            | 12.85      | Horizontal           | -46.16           | -25.0       | 21.16       | 90            |
| 6        | 15210.0         | -54.56   | 5.50            | 14.23      | Horizontal           | -45.83           | -25.0       | 20.83       | 270           |
| 7        | 17745.0         | -52.38   | 5.70            | 14.15      | Horizontal           | -43.93           | -25.0       | 18.93       | 135           |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



CA-41C 20M+20M CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -63.20   | 2.00            | 9.15       | Horizontal           | -56.05           | -25.0       | 31.05       | 0             |
| 3        | 7598.6          | -60.02   | 2.50            | 11.35      | Horizontal           | -51.17           | -25.0       | 26.17       | 45            |
| 4        | 10130.6         | -55.92   | 4.20            | 12.05      | Horizontal           | -48.07           | -25.0       | 23.07       | 270           |
| 5        | 12675.0         | -54.25   | 5.20            | 12.85      | Horizontal           | -46.60           | -25.0       | 21.60       | 135           |
| 6        | 15210.0         | -54.40   | 5.50            | 14.23      | Horizontal           | -45.67           | -25.0       | 20.67       | 45            |
| 7        | 17745.0         | -53.20   | 5.70            | 14.15      | Horizontal           | -44.75           | -25.0       | 19.75       | 90            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

**MAS Antenna**

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3464.3          | -56.14   | 2.6             | 10.75      | Horizontal           | -47.99           | -13.00      | 34.99       | 225           |
| 3        | 5197.5          | -61.64   | 2.4             | 11.05      | Horizontal           | -52.99           | -13.00      | 39.99       | 90            |
| 4        | 6930.0          | -58.69   | 4.5             | 11.15      | Horizontal           | -52.04           | -13.00      | 39.04       | 315           |
| 5        | 8662.5          | -56.01   | 5.1             | 11.35      | Horizontal           | -49.76           | -13.00      | 36.76       | 135           |
| 6        | 10395.0         | -53.58   | 5.3             | 11.95      | Horizontal           | -46.93           | -13.00      | 33.93       | 135           |
| 7        | 12127.5         | -53.89   | 5.5             | 13.55      | Horizontal           | -45.84           | -13.00      | 32.84       | 45            |
| 8        | 13860.0         | -51.70   | 6.3             | 13.75      | Horizontal           | -44.25           | -13.00      | 31.25       | 270           |
| 9        | 15592.5         | -53.33   | 6.7             | 13.85      | Horizontal           | -46.18           | -13.00      | 33.18       | 180           |
| 10       | 17325.0         | -49.94   | 6.8             | 14.25      | Horizontal           | -42.49           | -13.00      | 29.49       | 0             |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3460.5          | -55.74   | 2.6             | 10.75      | Horizontal           | -47.59           | -13.00      | 34.59       | 180           |
| 3        | 5191.5          | -63.41   | 2.4             | 11.05      | Horizontal           | -54.76           | -13.00      | 41.76       | 315           |
| 4        | 6930.0          | -58.66   | 4.5             | 11.15      | Horizontal           | -52.01           | -13.00      | 39.01       | 90            |
| 5        | 8662.5          | -56.60   | 5.1             | 11.35      | Horizontal           | -50.35           | -13.00      | 37.35       | 225           |
| 6        | 10395.0         | -53.43   | 5.3             | 11.95      | Horizontal           | -46.78           | -13.00      | 33.78       | 45            |
| 7        | 12127.5         | -54.78   | 5.5             | 13.55      | Horizontal           | -46.73           | -13.00      | 33.73       | 135           |
| 8        | 13860.0         | -52.07   | 6.3             | 13.75      | Horizontal           | -44.62           | -13.00      | 31.62       | 90            |
| 9        | 15592.5         | -53.89   | 6.7             | 13.85      | Horizontal           | -46.74           | -13.00      | 33.74       | 0             |
| 10       | 17325.0         | -49.96   | 6.8             | 14.25      | Horizontal           | -42.51           | -13.00      | 29.51       | 45            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 4 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 3465.0          | -55.45   | 2.6             | 10.75      | Horizontal           | -47.30           | -13.00      | 34.30       | 180           |
| 3        | 5170.9          | -63.16   | 2.4             | 11.05      | Horizontal           | -54.51           | -13.00      | 41.51       | 315           |
| 4        | 6930.0          | -58.53   | 4.5             | 11.15      | Horizontal           | -51.88           | -13.00      | 38.88       | 135           |
| 5        | 8662.5          | -56.70   | 5.1             | 11.35      | Horizontal           | -50.45           | -13.00      | 37.45       | 225           |
| 6        | 10395.0         | -53.93   | 5.3             | 11.95      | Horizontal           | -47.28           | -13.00      | 34.28       | 45            |
| 7        | 12127.5         | -53.66   | 5.5             | 13.55      | Horizontal           | -45.61           | -13.00      | 32.61       | 90            |
| 8        | 13860.0         | -51.15   | 6.3             | 13.75      | Horizontal           | -43.70           | -13.00      | 30.70       | 180           |
| 9        | 15592.5         | -53.24   | 6.7             | 13.85      | Horizontal           | -46.09           | -13.00      | 33.09       | 135           |
| 10       | 17325.0         | -49.78   | 6.8             | 14.25      | Horizontal           | -42.33           | -13.00      | 29.33       | 180           |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 7 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5065.8          | -60.79   | 2.00            | 9.15       | Horizontal           | -53.64           | -25.00      | 28.64       | 270           |
| 3        | 7598.6          | -58.74   | 2.50            | 11.35      | Horizontal           | -49.89           | -25.00      | 24.89       | 180           |
| 4        | 10130.6         | -54.40   | 4.20            | 12.05      | Horizontal           | -46.55           | -25.00      | 21.55       | 45            |
| 5        | 12675.0         | -54.57   | 5.20            | 12.85      | Horizontal           | -46.92           | -25.00      | 21.92       | 135           |
| 6        | 15210.0         | -54.42   | 5.50            | 14.23      | Horizontal           | -45.69           | -25.00      | 20.69       | 315           |
| 7        | 17745.0         | -51.24   | 5.70            | 14.15      | Horizontal           | -42.79           | -25.00      | 17.79       | 90            |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.





## LTE Band 7 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5052.4          | -61.80   | 2.00            | 10.15      | Horizontal           | -53.65           | -25.00      | 28.65       | 180           |
| 3        | 7605.0          | -59.61   | 2.50            | 11.35      | Horizontal           | -50.76           | -25.00      | 25.76       | 315           |
| 4        | 10140.0         | -54.91   | 4.20            | 12.05      | Horizontal           | -47.06           | -25.00      | 22.06       | 45            |
| 5        | 12675.0         | -55.47   | 5.20            | 14.85      | Horizontal           | -45.82           | -25.00      | 20.82       | 225           |
| 6        | 15210.0         | -53.99   | 5.50            | 13.23      | Horizontal           | -46.26           | -25.00      | 21.26       | 180           |
| 7        | 17745.0         | -48.98   | 5.70            | 12.15      | Horizontal           | -42.53           | -25.00      | 17.53       | 0             |
| 8        | 20280.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22815.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25350.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 38 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5185.0          | -60.14   | 2.00            | 9.15       | Horizontal           | -52.99           | -13.00      | 39.99       | 180           |
| 3        | 7785.0          | -59.10   | 2.50            | 11.35      | Horizontal           | -50.25           | -13.00      | 37.25       | 315           |
| 4        | 10380.0         | -55.33   | 4.20            | 12.05      | Horizontal           | -47.48           | -13.00      | 34.48       | 90            |
| 5        | 12975.0         | -54.00   | 5.20            | 12.85      | Horizontal           | -46.35           | -13.00      | 33.35       | 315           |
| 6        | 15570.0         | -54.70   | 5.50            | 14.23      | Horizontal           | -45.97           | -13.00      | 32.97       | 45            |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## LTE Band 38 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5172.0          | -62.32   | 2.00            | 10.15      | Horizontal           | -54.17           | -13.00      | 41.17       | 45            |
| 3        | 7785.0          | -59.05   | 2.50            | 11.35      | Horizontal           | -50.20           | -13.00      | 37.20       | 180           |
| 4        | 10380.0         | -54.88   | 4.20            | 12.05      | Horizontal           | -47.03           | -13.00      | 34.03       | 315           |
| 5        | 12975.0         | -55.17   | 5.20            | 14.85      | Horizontal           | -45.52           | -13.00      | 32.52       | 135           |
| 6        | 15570.0         | -52.91   | 5.50            | 13.23      | Horizontal           | -45.18           | -13.00      | 32.18       | 225           |
| 7        | 18165.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 8        | 20760.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 9        | 23355.0         | /        | /               | /          | /                    | /                | /           | /           | /             |
| 10       | 25950.0         | /        | /               | /          | /                    | /                | /           | /           | /             |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

## LTE Band 41 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5186.0          | -62.35   | 2.00            | 9.15       | Horizontal           | -55.20           | -25.00      | 30.20       | 135           |
| 3        | 7779.0          | -61.32   | 2.50            | 11.35      | Horizontal           | -52.47           | -25.00      | 27.47       | 180           |
| 4        | 10372.0         | -56.82   | 4.20            | 12.05      | Horizontal           | -48.97           | -25.00      | 23.97       | 315           |
| 5        | 12965.0         | -54.13   | 5.20            | 12.85      | Horizontal           | -46.48           | -25.00      | 21.48       | 225           |
| 6        | 15558.0         | -53.37   | 5.50            | 14.23      | Horizontal           | -44.64           | -25.00      | 19.64       | 45            |
| 7        | 18151.0         | -51.65   | 5.70            | 14.15      | Horizontal           | -43.20           | -25.00      | 18.20       | 90            |
| 8        | 20744.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 23337.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25930.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



LTE Band 41 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5186.0          | -62.68   | 2.00            | 10.15      | Horizontal           | -54.53           | -25.00      | 29.53       | 45            |
| 3        | 7779.0          | -59.00   | 2.50            | 11.35      | Horizontal           | -50.15           | -25.00      | 25.15       | 180           |
| 4        | 10372.0         | -52.85   | 4.20            | 12.05      | Horizontal           | -45.00           | -25.00      | 20.00       | 225           |
| 5        | 12965.0         | -55.55   | 5.20            | 14.85      | Horizontal           | -45.90           | -25.00      | 20.90       | 135           |
| 6        | 15558.0         | -54.32   | 5.50            | 13.23      | Horizontal           | -46.59           | -25.00      | 21.59       | 315           |
| 7        | 18151.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 8        | 20744.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 23337.0         | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25930.0         | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



## 6 Main Test Instruments

| Name                   | Manufacturer | Type              | Serial Number | Calibration Date | Expiration Date |
|------------------------|--------------|-------------------|---------------|------------------|-----------------|
| Base Station Simulator | R&S          | CMW500            | 113824        | 2019-05-19       | 2020-05-18      |
| Power Splitter         | Hua Xiang    | SHX-GF2-2-13      | 10120101      | /                | /               |
| Spectrum Analyzer      | Key sight    | N9010A            | MY50210259    | 2019-05-19       | 2020-05-18      |
| Signal Analyzer        | R&S          | FSV30             | 100815        | 2018-12-16       | 2019-12-15      |
| Loop Antenna           | SCHWARZBECK  | FMZB1519          | 1519-047      | 2017-09-26       | 2019-09-25      |
| Trilog Antenna         | SCHWARZBECK  | VUBL 9163         | 9163-201      | 2017-11-18       | 2019-11-17      |
| Horn Antenna           | R&S          | HF907             | 100126        | 2018-07-07       | 2020-07-06      |
| Horn Antenna           | ETS-Lindgren | 3160-09           | 00102643      | 2018-06-20       | 2020-06-19      |
| Horn Antenna           | STEATITE     | QSH-SL-26-40-K-15 | 16779         | 2017-07-20       | 2019-07-19      |
| Signal generator       | R&S          | SMB 100A          | 102594        | 2019-05-19       | 2020-05-18      |
| Climatic Chamber       | ESPEC        | SU-242            | 93000506      | 2017-12-17       | 2020-12-16      |
| Preamplifier           | R&S          | SCU18             | 102327        | 2019-05-19       | 2020-05-18      |
| MOB COMMS DC SUPPLY    | Keysight     | 66319D            | MY43004105    | 2019-05-19       | 2020-05-18      |
| RF Cable               | Agilent      | SMA 15cm          | 0001          | 2019-06-14       | 2019-09-13      |
| Software               | R&S          | EMC32             | 9.26.0        | /                | /               |

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