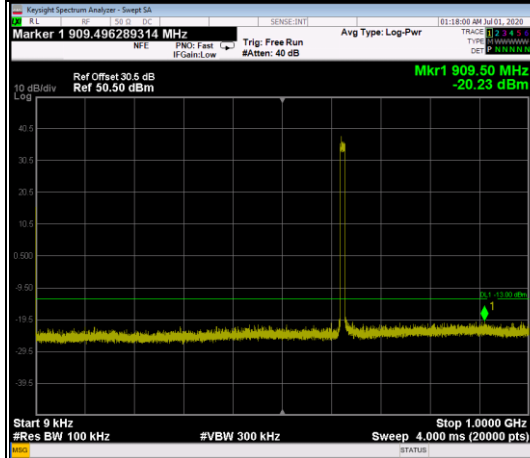


10MHz-Chain 0

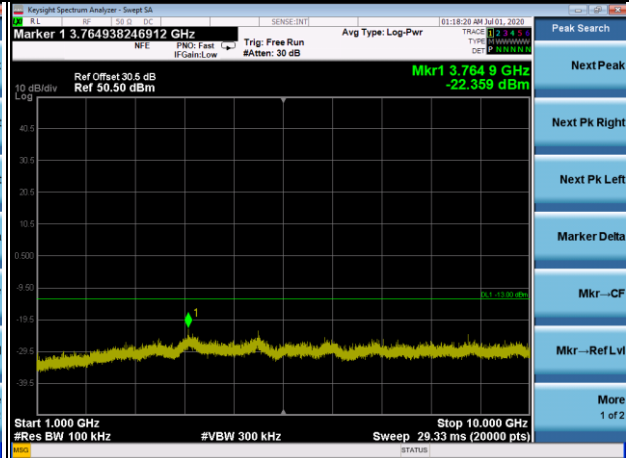
QPSK

Channel 124400

Frequency Range : 9kHz~1GHz

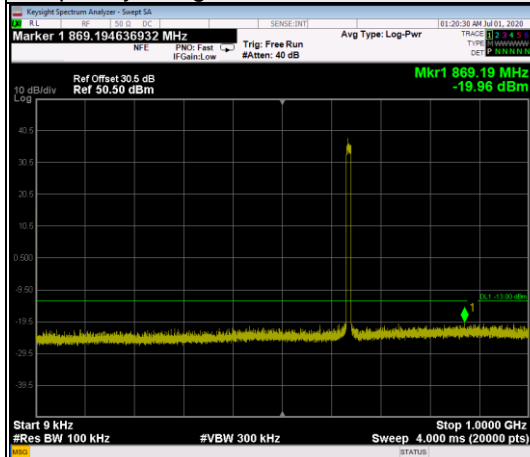


Frequency Range : 1GHz~10GHz

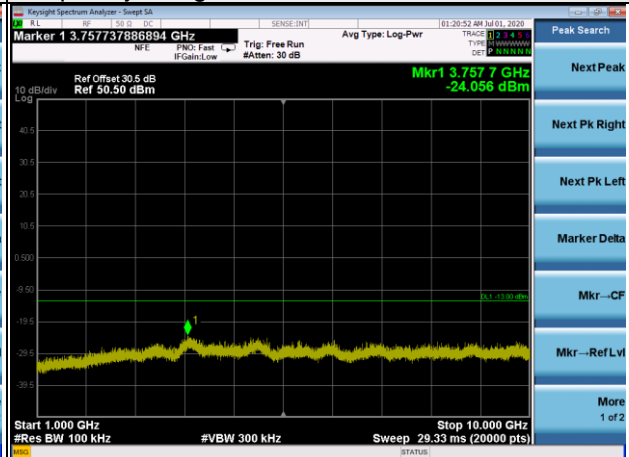


Channel 126900

Frequency Range : 9kHz~1GHz

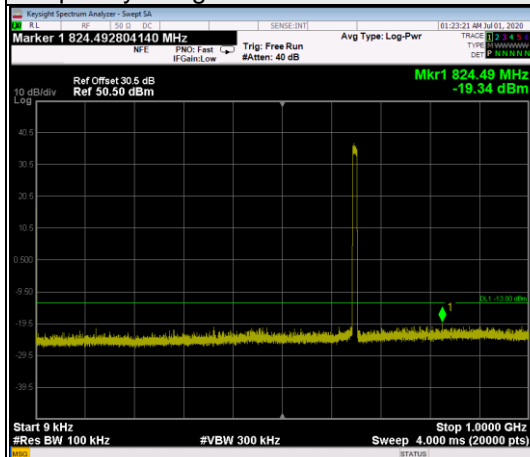


Frequency Range : 1GHz~10GHz

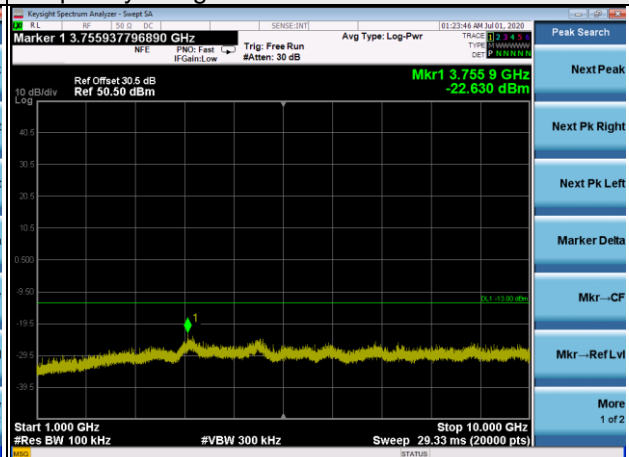


Channel 129400

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

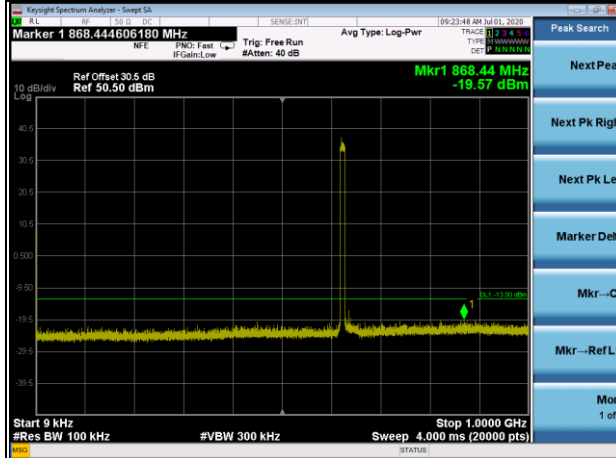


10MHz-Chain 1

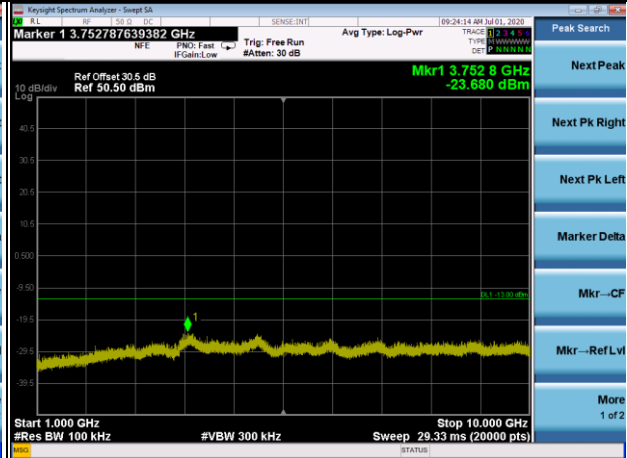
QPSK

Channel 124400

Frequency Range : 9kHz~1GHz

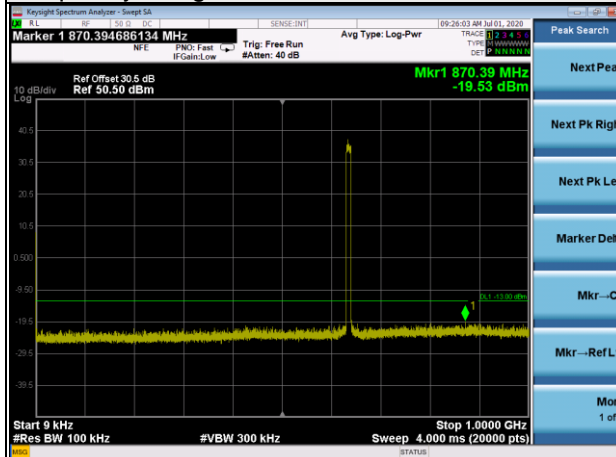


Frequency Range : 1GHz~10GHz

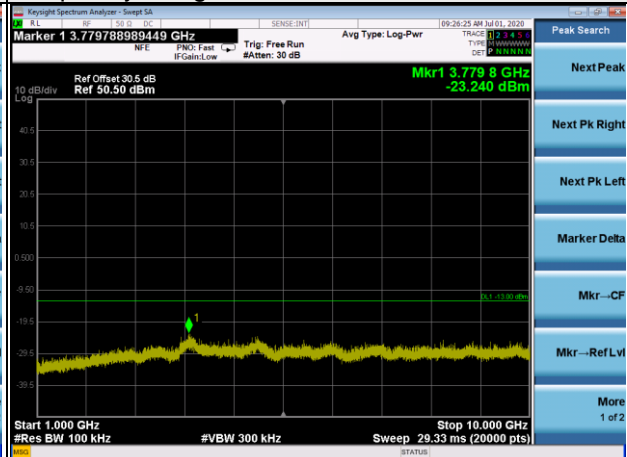


Channel 126900

Frequency Range : 9kHz~1GHz

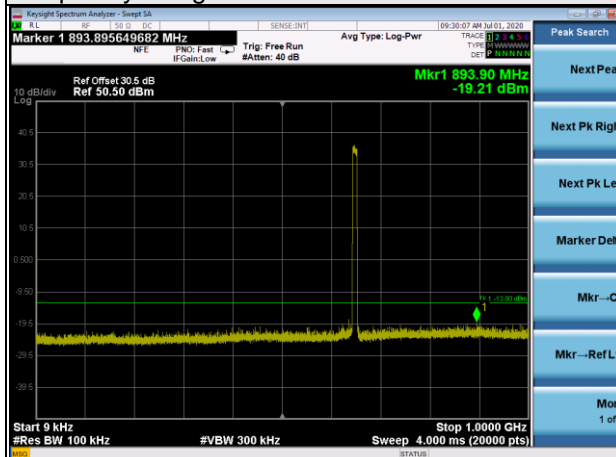


Frequency Range : 1GHz~10GHz

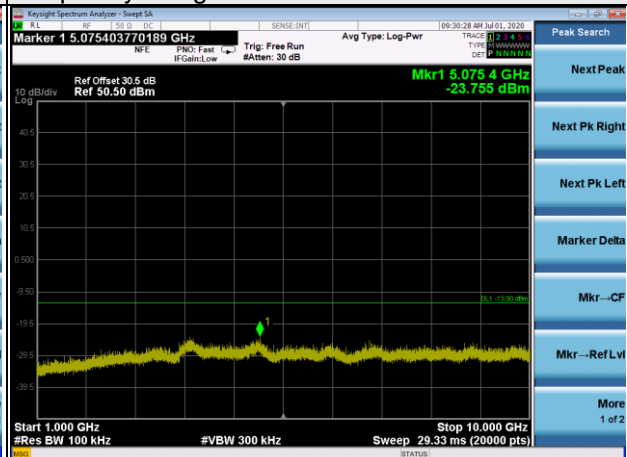


Channel 129400

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

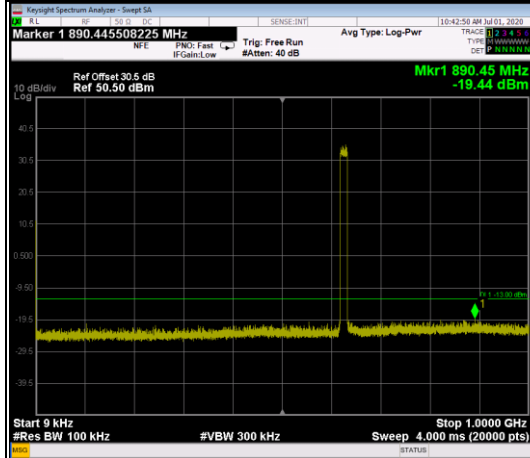


15MHz-Chain 0

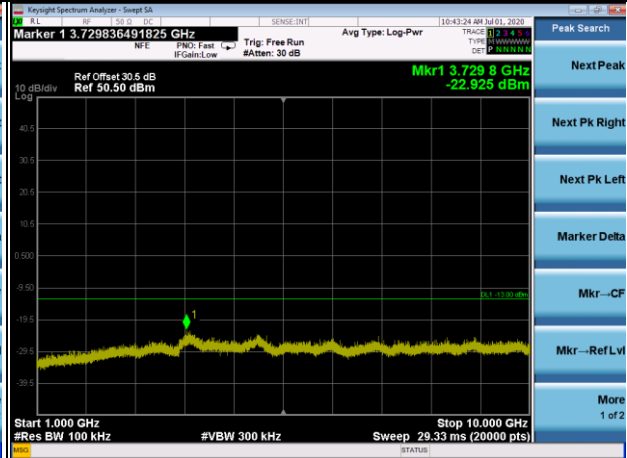
QPSK

Channel 124900

Frequency Range : 9kHz~1GHz

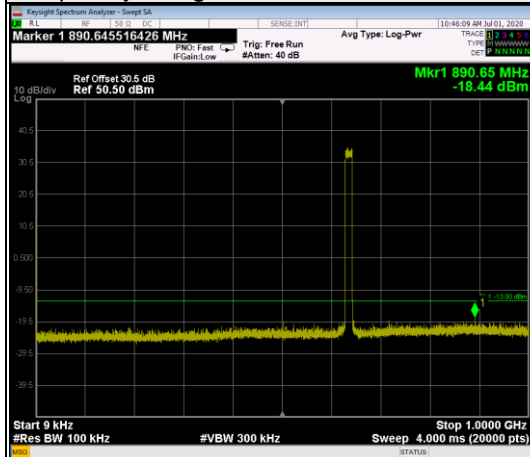


Frequency Range : 1GHz~10GHz

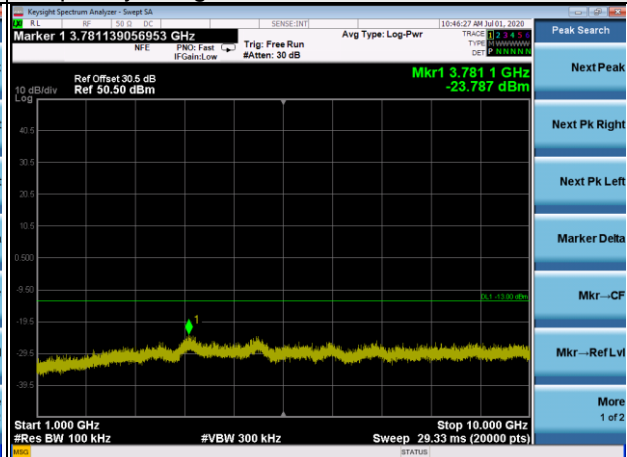


Channel 126900

Frequency Range : 9kHz~1GHz

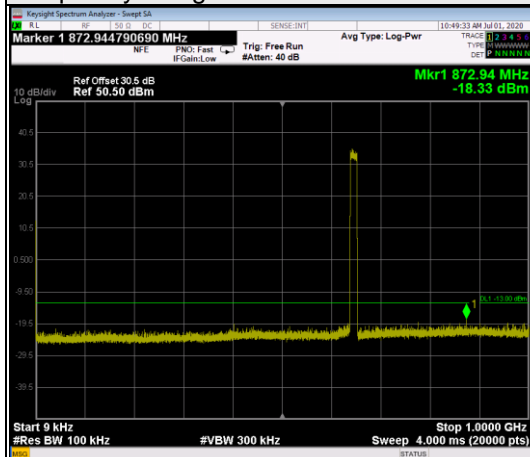


Frequency Range : 1GHz~10GHz

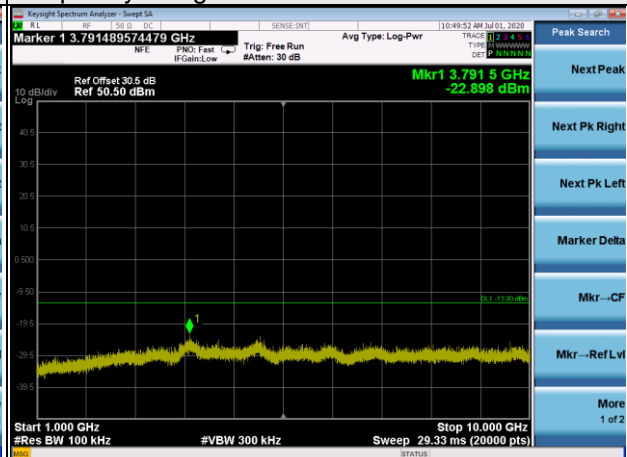


Channel 128900

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

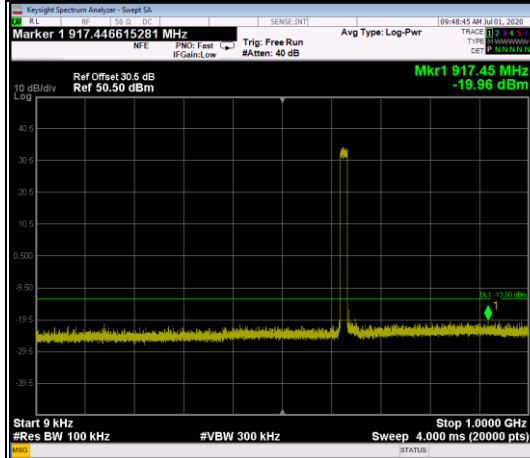


15MHz-Chain 1

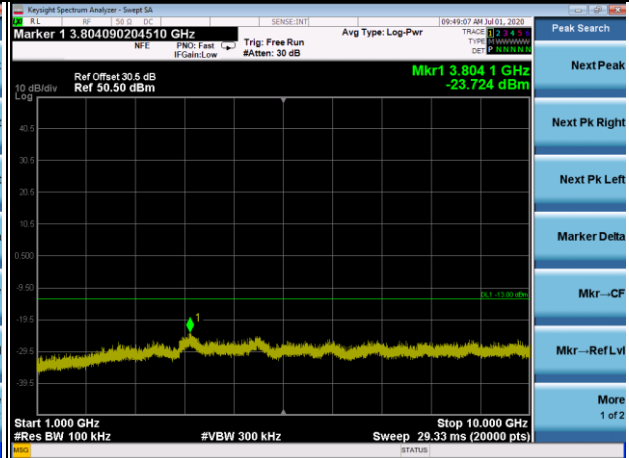
QPSK

Channel 124900

Frequency Range : 9kHz~1GHz

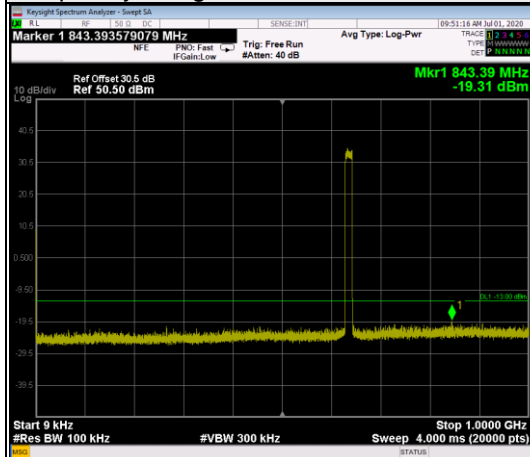


Frequency Range : 1GHz~10GHz

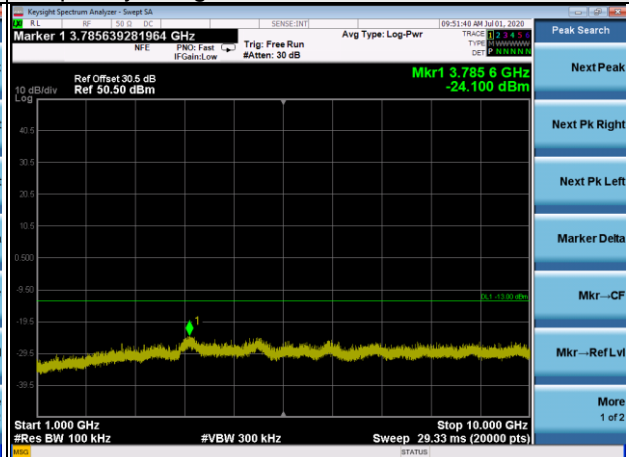


Channel 126900

Frequency Range : 9kHz~1GHz

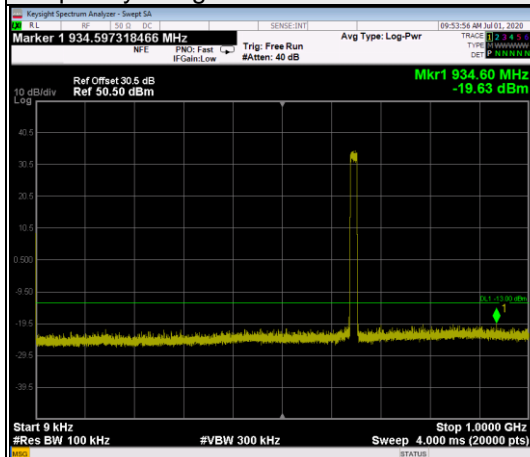


Frequency Range : 1GHz~10GHz

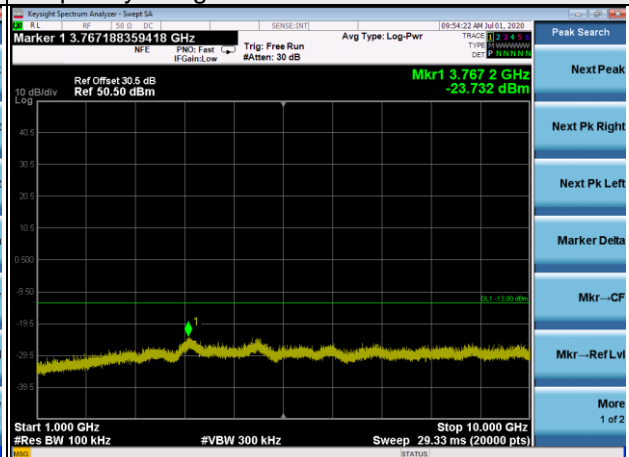


Channel 128900

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

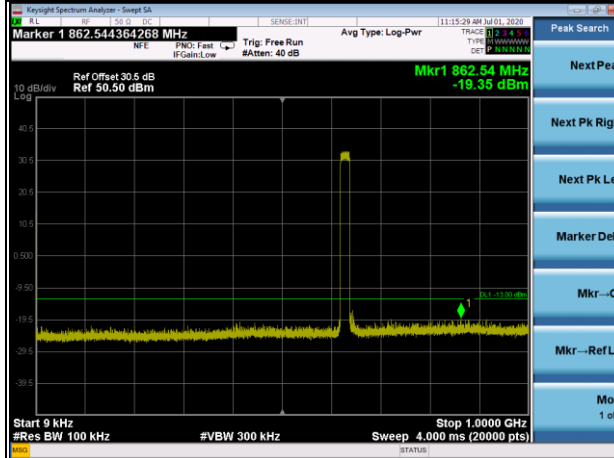


20MHz-Chain 0

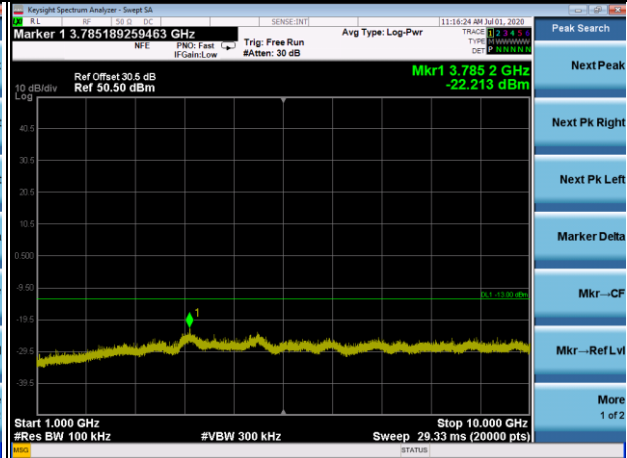
QPSK

Channel 125400

Frequency Range : 9kHz~1GHz

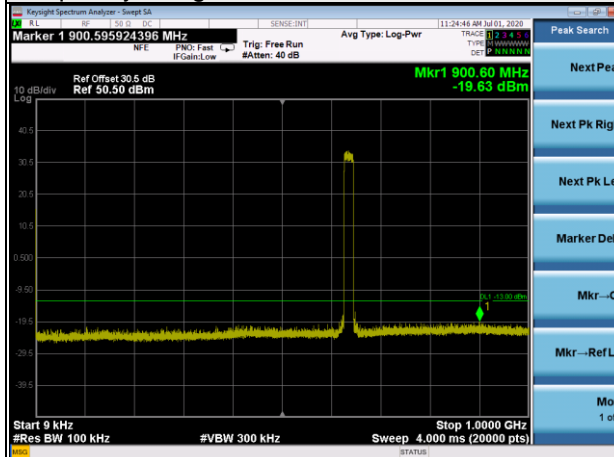


Frequency Range : 1GHz~10GHz

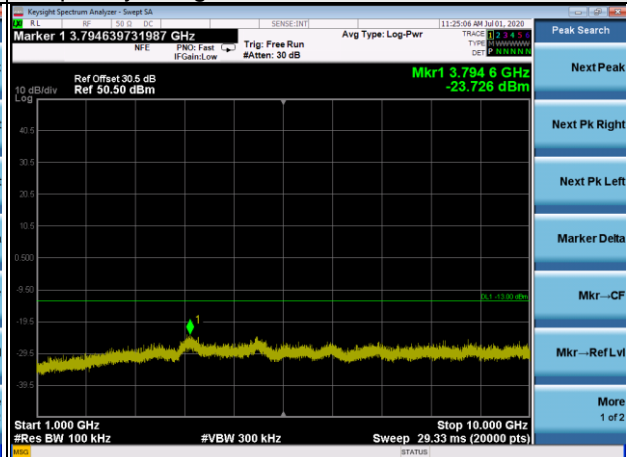


Channel 126900

Frequency Range : 9kHz~1GHz

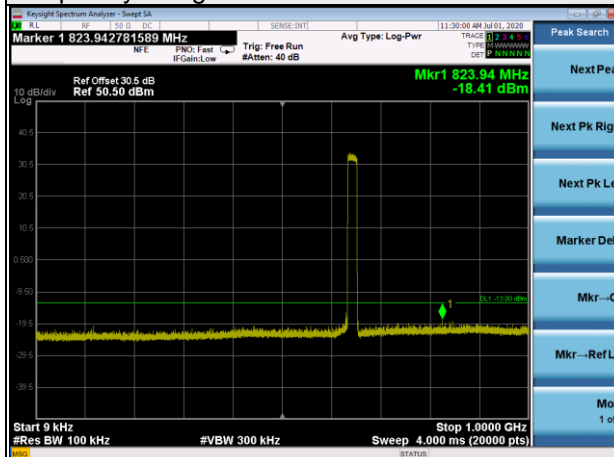


Frequency Range : 1GHz~10GHz

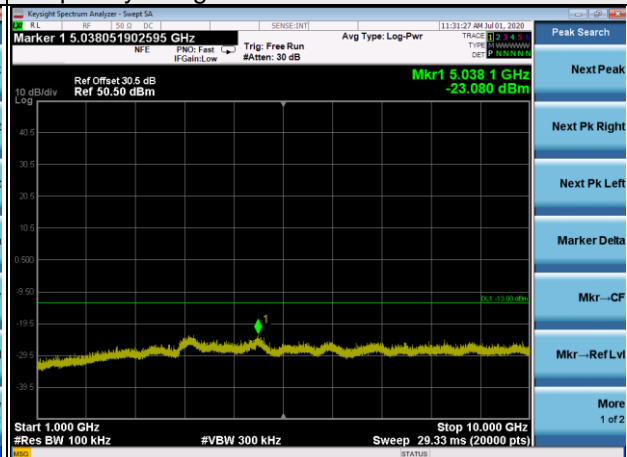


Channel 128400

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

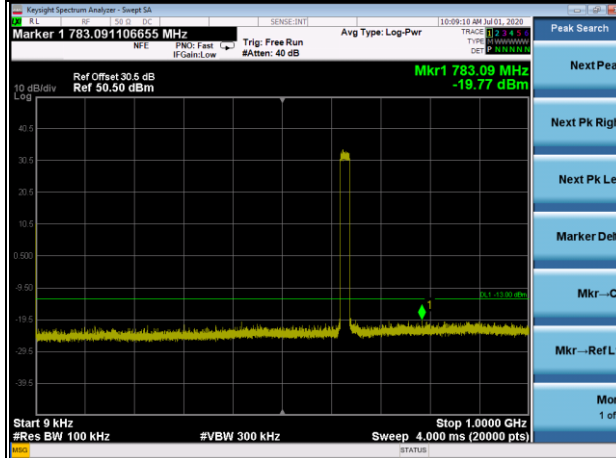


20MHz-Chain 1

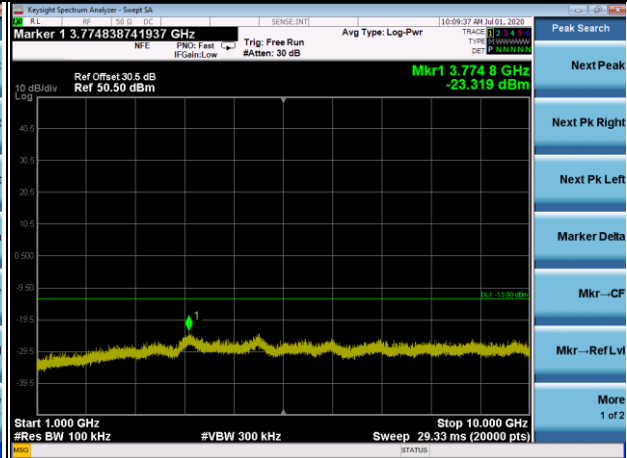
QPSK

Channel 125400

Frequency Range : 9kHz~1GHz

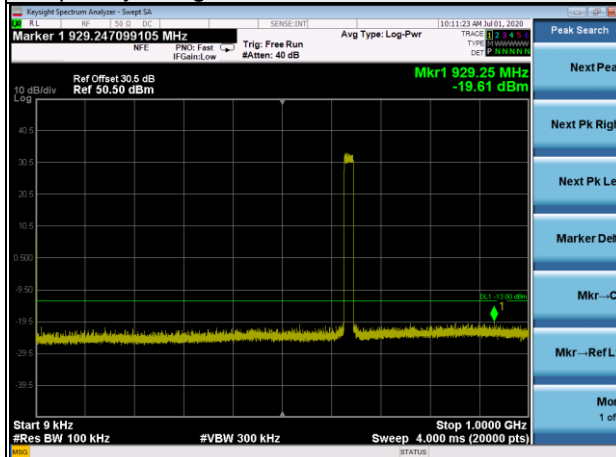


Frequency Range : 1GHz~10GHz

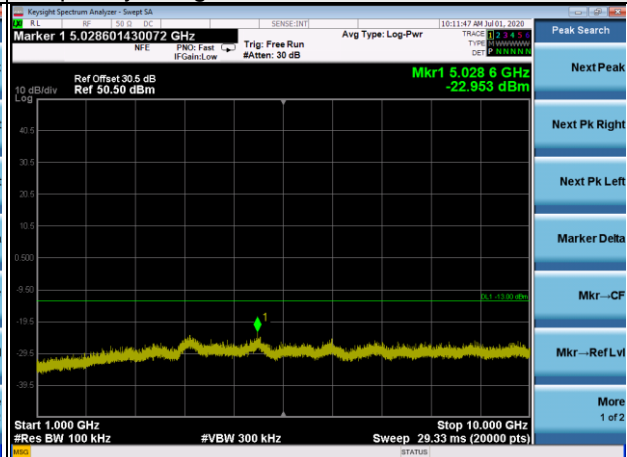


Channel 126900

Frequency Range : 9kHz~1GHz

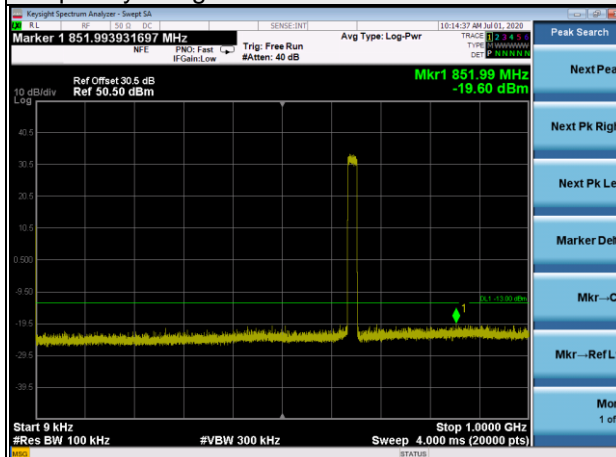


Frequency Range : 1GHz~10GHz

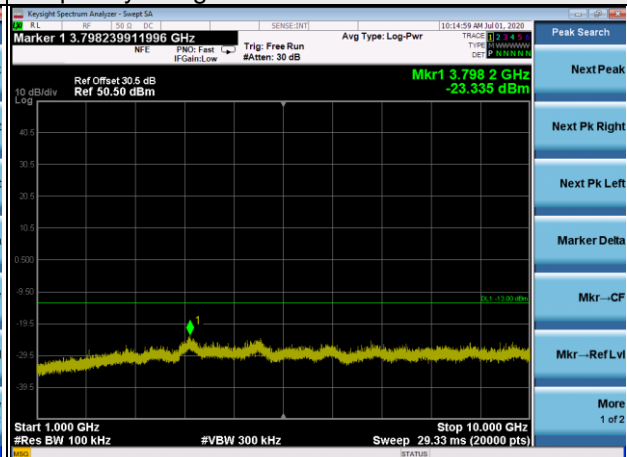


Channel 128400

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



## 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

According to FCC 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.

### 4.8.2 Test Procedure

- a. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. EIRP measurement is made in the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = Read Value (dB $\mu$ V/m) - Correction Factor @ 3m
- d. Correction Factor (dB) @ 3m =  $20\log(D) - 104.8$ ; where D is the measurement distance @ 3m  
= -95.26dB

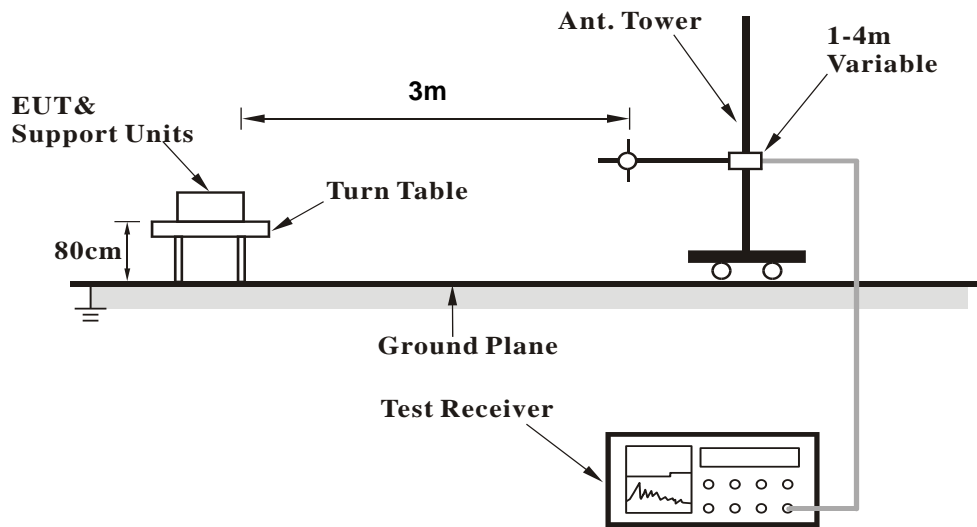
**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### 4.8.3 Deviation from Test Standard

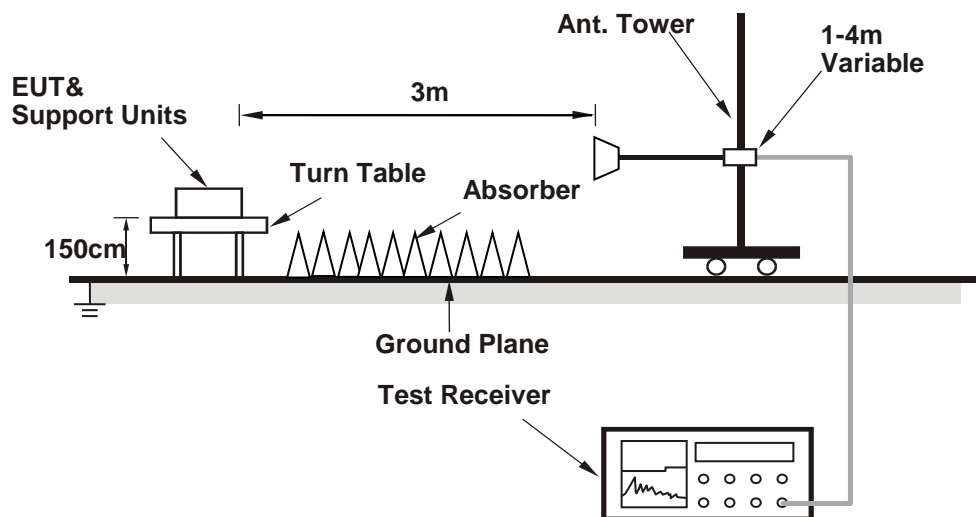
No deviation.

4.8.4 Test Setup

**<Frequency Range below 1GHz>**



**<Frequency Range above 1GHz>**



For the actual test configuration, please refer to the attached file (Test Setup Photo).



#### 4.8.5 Test Results

##### Single Carrier

Below 1GHz

##### 5MHz

Test Frequency	619.5 MHz	Frequency Range	Below 1000 MHz
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##### Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.68	40.93	-95.26	-54.33	-13	-41.33
2	58.61	38.08	-95.26	-57.18	-13	-44.18
3	93.19	45.87	-95.26	-49.39	-13	-36.39
4	243.77	34.77	-95.26	-60.49	-13	-47.49
5	305.58	35.42	-95.26	-59.84	-13	-46.84
6	982.59	33.49	-95.26	-61.77	-13	-48.77

##### Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.43	41.31	-95.26	-53.95	-13	-40.95
2	61.75	34.38	-95.26	-60.88	-13	-47.88
3	80.17	34.66	-95.26	-60.60	-13	-47.60
4	124.41	31.06	-95.26	-64.20	-13	-51.20
5	736.72	34.78	-95.26	-60.48	-13	-47.48
6	982.3	45.07	-95.26	-50.19	-13	-37.19

##### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.34	41.41	-95.26	-53.85	-13	-40.85
2	58.56	38.63	-95.26	-56.63	-13	-43.63
3	92.75	46.17	-95.26	-49.09	-13	-36.09
4	243.31	34.71	-95.26	-60.55	-13	-47.55
5	305.35	35.35	-95.26	-59.91	-13	-46.91
6	982.24	33.38	-95.26	-61.88	-13	-48.88

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.15	41.14	-95.26	-54.12	-13	-41.12
2	61.37	34.31	-95.26	-60.95	-13	-47.95
3	79.83	34.37	-95.26	-60.89	-13	-47.89
4	124.07	30.77	-95.26	-64.49	-13	-51.49
5	736.26	34.62	-95.26	-60.64	-13	-47.64
6	982.04	44.74	-95.26	-50.52	-13	-37.52

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	649.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.44	41.03	-95.26	-54.23	-13	-41.23
2	58.17	37.97	-95.26	-57.29	-13	-44.29
3	93.01	45.73	-95.26	-49.53	-13	-36.53
4	243.68	35.18	-95.26	-60.08	-13	-47.08
5	305.22	35.83	-95.26	-59.43	-13	-46.43
6	982.11	33.41	-95.26	-61.85	-13	-48.85

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.14	40.9	-95.26	-54.36	-13	-41.36
2	61.5	34.37	-95.26	-60.89	-13	-47.89
3	80.13	34.54	-95.26	-60.72	-13	-47.72
4	124.18	30.99	-95.26	-64.27	-13	-51.27
5	736.56	34.67	-95.26	-60.59	-13	-47.59
6	982.02	45.06	-95.26	-50.20	-13	-37.20

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

**10MHz**

Test Frequency	622 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.31	40.68	-95.26	-54.58	-13	-41.58
2	58.38	37.86	-95.26	-57.40	-13	-44.40
3	93.17	45.48	-95.26	-49.78	-13	-36.78
4	243.48	34.27	-95.26	-60.99	-13	-47.99
5	305.43	35.16	-95.26	-60.10	-13	-47.10
6	982.24	33.12	-95.26	-62.14	-13	-49.14

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.99	40.94	-95.26	-54.32	-13	-41.32
2	61.66	34.15	-95.26	-61.11	-13	-48.11
3	79.96	34.48	-95.26	-60.78	-13	-47.78
4	124.29	31	-95.26	-64.26	-13	-51.26
5	736.65	34.77	-95.26	-60.49	-13	-47.49
6	981.9	44.93	-95.26	-50.33	-13	-37.33

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.62	40.69	-95.26	-54.57	-13	-41.57
2	58.16	38.01	-95.26	-57.25	-13	-44.25
3	92.92	45.64	-95.26	-49.62	-13	-36.62
4	243.46	34.7	-95.26	-60.56	-13	-47.56
5	305.47	35.36	-95.26	-59.90	-13	-46.90
6	982.23	33.27	-95.26	-61.99	-13	-48.99

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.1	41.17	-95.26	-54.09	-13	-41.09
2	61.34	34.13	-95.26	-61.13	-13	-48.13
3	80.02	34.34	-95.26	-60.92	-13	-47.92
4	124.36	30.8	-95.26	-64.46	-13	-51.46
5	736.35	34.45	-95.26	-60.81	-13	-47.81
6	982.18	44.69	-95.26	-50.57	-13	-37.57

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	647MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.42	41.03	-95.26	-54.23	-13	-41.23
2	58.23	37.95	-95.26	-57.31	-13	-44.31
3	93.05	46.01	-95.26	-49.25	-13	-36.25
4	243.48	34.74	-95.26	-60.52	-13	-47.52
5	305.39	35.26	-95.26	-60.00	-13	-47.00
6	982.53	33.29	-95.26	-61.97	-13	-48.97

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.99	41.19	-95.26	-54.07	-13	-41.07
2	61.72	33.89	-95.26	-61.37	-13	-48.37
3	79.83	34.39	-95.26	-60.87	-13	-47.87
4	124.08	30.57	-95.26	-64.69	-13	-51.69
5	736.53	34.61	-95.26	-60.65	-13	-47.65
6	981.81	44.78	-95.26	-50.48	-13	-37.48

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

**15MHz**

Test Frequency	624.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.26	40.69	-95.26	-54.57	-13	-41.57
2	58.51	37.69	-95.26	-57.57	-13	-44.57
3	93.11	45.45	-95.26	-49.81	-13	-36.81
4	243.34	34.61	-95.26	-60.65	-13	-47.65
5	305.57	35.39	-95.26	-59.87	-13	-46.87
6	982.22	33.46	-95.26	-61.80	-13	-48.80

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.26	41.18	-95.26	-54.08	-13	-41.08
2	61.72	34.04	-95.26	-61.22	-13	-48.22
3	79.78	34.52	-95.26	-60.74	-13	-47.74
4	124.35	30.7	-95.26	-64.56	-13	-51.56
5	736.53	34.65	-95.26	-60.61	-13	-47.61
6	982.21	44.66	-95.26	-50.60	-13	-37.60

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.52	40.76	-95.26	-54.50	-13	-41.50
2	58.55	37.66	-95.26	-57.60	-13	-44.60
3	92.99	45.75	-95.26	-49.51	-13	-36.51
4	243.41	34.37	-95.26	-60.89	-13	-47.89
5	305.57	34.92	-95.26	-60.34	-13	-47.34
6	982.58	33.1	-95.26	-62.16	-13	-49.16

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.38	41.22	-95.26	-54.04	-13	-41.04
2	61.74	33.94	-95.26	-61.32	-13	-48.32
3	79.84	34.19	-95.26	-61.07	-13	-48.07
4	124.37	30.99	-95.26	-64.27	-13	-51.27
5	736.63	34.73	-95.26	-60.53	-13	-47.53
6	982	44.7	-95.26	-50.56	-13	-37.56

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m



Test Frequency	644.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.51	40.76	-95.26	-54.50	-13	-41.50
2	58.27	38	-95.26	-57.26	-13	-44.26
3	92.8	45.7	-95.26	-49.56	-13	-36.56
4	243.32	34.7	-95.26	-60.56	-13	-47.56
5	305.35	35.35	-95.26	-59.91	-13	-46.91
6	982.18	33.38	-95.26	-61.88	-13	-48.88

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.4	41.24	-95.26	-54.02	-13	-41.02
2	61.37	34.1	-95.26	-61.16	-13	-48.16
3	79.86	34.51	-95.26	-60.75	-13	-47.75
4	124.31	30.66	-95.26	-64.60	-13	-51.60
5	736.66	34.62	-95.26	-60.64	-13	-47.64
6	981.89	44.73	-95.26	-50.53	-13	-37.53

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

**20MHz**

Test Frequency	627 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.48	40.69	-95.26	-54.57	-13	-41.57
2	58.59	37.89	-95.26	-57.37	-13	-44.37
3	93.18	45.56	-95.26	-49.70	-13	-36.70
4	243.58	34.33	-95.26	-60.93	-13	-47.93
5	305.2	35.11	-95.26	-60.15	-13	-47.15
6	982.32	33.33	-95.26	-61.93	-13	-48.93

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.33	41.1	-95.26	-54.16	-13	-41.16
2	61.32	34.17	-95.26	-61.09	-13	-48.09
3	80.15	34.2	-95.26	-61.06	-13	-48.06
4	123.95	30.93	-95.26	-64.33	-13	-51.33
5	736.34	34.39	-95.26	-60.87	-13	-47.87
6	982.02	44.57	-95.26	-50.69	-13	-37.69

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.63	40.93	-95.26	-54.33	-13	-41.33
2	58.36	38	-95.26	-57.26	-13	-44.26
3	93.18	45.47	-95.26	-49.79	-13	-36.79
4	243.73	34.49	-95.26	-60.77	-13	-47.77
5	305.3	35.22	-95.26	-60.04	-13	-47.04
6	982.34	33.48	-95.26	-61.78	-13	-48.78

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.35	40.95	-95.26	-54.31	-13	-41.31
2	61.29	34.04	-95.26	-61.22	-13	-48.22
3	79.94	34.25	-95.26	-61.01	-13	-48.01
4	124.31	30.77	-95.26	-64.49	-13	-51.49
5	736.23	34.38	-95.26	-60.88	-13	-47.88
6	981.83	44.99	-95.26	-50.27	-13	-37.27

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	642 MHz	Frequency Range	Below 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	32.41	40.63	-95.26	-54.63	-13	-41.63
2	58.42	37.68	-95.26	-57.58	-13	-44.58
3	92.8	45.78	-95.26	-49.48	-13	-36.48
4	243.75	34.4	-95.26	-60.86	-13	-47.86
5	305.48	35.04	-95.26	-60.22	-13	-47.22
6	982.13	33.47	-95.26	-61.79	-13	-48.79

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.43	41.09	-95.26	-54.17	-13	-41.17
2	61.68	34.34	-95.26	-60.92	-13	-47.92
3	79.79	34.48	-95.26	-60.78	-13	-47.78
4	123.97	30.83	-95.26	-64.43	-13	-51.43
5	736.55	34.62	-95.26	-60.64	-13	-47.64
6	982.25	44.59	-95.26	-50.67	-13	-37.67

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Above 1GHz  
**Single Carrier**  
**5MHz**

Test Frequency	619.5 MHz	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1239	31.84	-95.26	-63.42	-13	-50.42
2	1858.5	31.89	-95.26	-63.37	-13	-50.37
3	2478	33.82	-95.26	-61.44	-13	-48.44
4	3097.5	35.28	-95.26	-59.98	-13	-46.98

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1239	35.83	-95.26	-59.43	-13	-46.43
2	1858.5	31.79	-95.26	-63.47	-13	-50.47
3	2478	34.79	-95.26	-60.47	-13	-47.47
4	3097.5	34.56	-95.26	-60.70	-13	-47.70

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	31.6	-95.26	-63.66	-13	-50.66
2	1903.5	31.9	-95.26	-63.36	-13	-50.36
3	2538	33.92	-95.26	-61.34	-13	-48.34
4	3172.5	35.18	-95.26	-60.08	-13	-47.08

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	35.36	-95.26	-59.90	-13	-46.90
2	1903.5	31.52	-95.26	-63.74	-13	-50.74
3	2538	34.42	-95.26	-60.84	-13	-47.84
4	3172.5	34.52	-95.26	-60.74	-13	-47.74

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	649.5 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1299	31.26	-95.26	-64.00	-13	-51.00
2	1948.5	31.8	-95.26	-63.46	-13	-50.46
3	2598	33.53	-95.26	-61.73	-13	-48.73
4	3247.5	34.89	-95.26	-60.37	-13	-47.37

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1299	35.83	-95.26	-59.43	-13	-46.43
2	1948.5	31.69	-95.26	-63.57	-13	-50.57
3	2598	34.75	-95.26	-60.51	-13	-47.51
4	3247.5	34.07	-95.26	-61.19	-13	-48.19

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

**10MHz**

Test Frequency	622 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1244	31.43	-95.26	-63.83	-13	-50.83
2	1866	31.83	-95.26	-63.43	-13	-50.43
3	2488	33.56	-95.26	-61.70	-13	-48.70
4	3110	34.86	-95.26	-60.40	-13	-47.40

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1244	35.41	-95.26	-59.85	-13	-46.85
2	1866	31.54	-95.26	-63.72	-13	-50.72
3	2488	34.42	-95.26	-60.84	-13	-47.84
4	3110	34.32	-95.26	-60.94	-13	-47.94

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m



Test Frequency	634.5 MHz	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	31.6	-95.26	-63.66	-13	-50.66
2	1903.5	31.87	-95.26	-63.39	-13	-50.39
3	2538	33.34	-95.26	-61.92	-13	-48.92
4	3172.5	35.03	-95.26	-60.23	-13	-47.23
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	35.79	-95.26	-59.47	-13	-46.47
2	1903.5	31.6	-95.26	-63.66	-13	-50.66
3	2538	34.64	-95.26	-60.62	-13	-47.62
4	3172.5	34.51	-95.26	-60.75	-13	-47.75

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	647 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1294	31.69	-95.26	-63.57	-13	-50.57
2	1941	31.81	-95.26	-63.45	-13	-50.45
3	2588	33.76	-95.26	-61.50	-13	-48.50
4	3235	35.28	-95.26	-59.98	-13	-46.98

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1294	35.67	-95.26	-59.59	-13	-46.59
2	1941	31.54	-95.26	-63.72	-13	-50.72
3	2588	34.73	-95.26	-60.53	-13	-47.53
4	3235	34.26	-95.26	-61.00	-13	-48.00

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

**15MHz**

Test Frequency	624.5 MHz	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1249	31.4	-95.26	-63.86	-13	-50.86
2	1873.5	31.7	-95.26	-63.56	-13	-50.56
3	2498	33.49	-95.26	-61.77	-13	-48.77
4	3122.5	35.04	-95.26	-60.22	-13	-47.22
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1249	35.54	-95.26	-59.72	-13	-46.72
2	1873.5	31.51	-95.26	-63.75	-13	-50.75
3	2498	34.34	-95.26	-60.92	-13	-47.92
4	3122.5	34.37	-95.26	-60.89	-13	-47.89

## Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	31.72	-95.26	-63.54	-13	-50.54
2	1903.5	31.72	-95.26	-63.54	-13	-50.54
3	2538	33.64	-95.26	-61.62	-13	-48.62
4	3172.5	35	-95.26	-60.26	-13	-47.26

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	35.68	-95.26	-59.58	-13	-46.58
2	1903.5	31.46	-95.26	-63.80	-13	-50.80
3	2538	34.64	-95.26	-60.62	-13	-47.62
4	3172.5	34.2	-95.26	-61.06	-13	-48.06

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	644.5 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1289	31.72	-95.26	-63.54	-13	-50.54
2	1933.5	31.58	-95.26	-63.68	-13	-50.68
3	2578	33.38	-95.26	-61.88	-13	-48.88
4	3222.5	35.06	-95.26	-60.20	-13	-47.20

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1289	35.48	-95.26	-59.78	-13	-46.78
2	1933.5	31.3	-95.26	-63.96	-13	-50.96
3	2578	34.54	-95.26	-60.72	-13	-47.72
4	3222.5	34.27	-95.26	-60.99	-13	-47.99

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m

**20MHz**

Test Frequency	627 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1254	31.84	-95.26	-63.42	-13	-50.42
2	1881	31.62	-95.26	-63.64	-13	-50.64
3	2508	33.39	-95.26	-61.87	-13	-48.87
4	3135	34.86	-95.26	-60.40	-13	-47.40

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1254	35.43	-95.26	-59.83	-13	-46.83
2	1881	31.61	-95.26	-63.65	-13	-50.65
3	2508	34.73	-95.26	-60.53	-13	-47.53
4	3135	34.13	-95.26	-61.13	-13	-48.13

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	634.5 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	31.72	-95.26	-63.54	-13	-50.54
2	1903.5	31.75	-95.26	-63.51	-13	-50.51
3	2538	33.62	-95.26	-61.64	-13	-48.64
4	3172.5	34.84	-95.26	-60.42	-13	-47.42

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1269	35.72	-95.26	-59.54	-13	-46.54
2	1903.5	31.77	-95.26	-63.49	-13	-50.49
3	2538	34.68	-95.26	-60.58	-13	-47.58
4	3172.5	34.54	-95.26	-60.72	-13	-47.72

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Test Frequency	642 MHz	Frequency Range	Above 1000 MHz
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**Antenna Polarity & Test Distance: Horizontal at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1284	31.69	-95.26	-63.57	-13	-50.57
2	1926	31.61	-95.26	-63.65	-13	-50.65
3	2568	33.56	-95.26	-61.70	-13	-48.70
4	3210	34.79	-95.26	-60.47	-13	-47.47

**Antenna Polarity & Test Distance: Vertical at 3 M**

No.	Freq. (MHz)	Reading (dB $\mu$ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1284	35.34	-95.26	-59.92	-13	-46.92
2	1926	31.43	-95.26	-63.83	-13	-50.83
3	2568	34.67	-95.26	-60.59	-13	-47.59
4	3210	34.21	-95.26	-61.05	-13	-48.05

**Remarks:**

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Reading (dB $\mu$ V/m) + Correction Factor @ 3m
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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