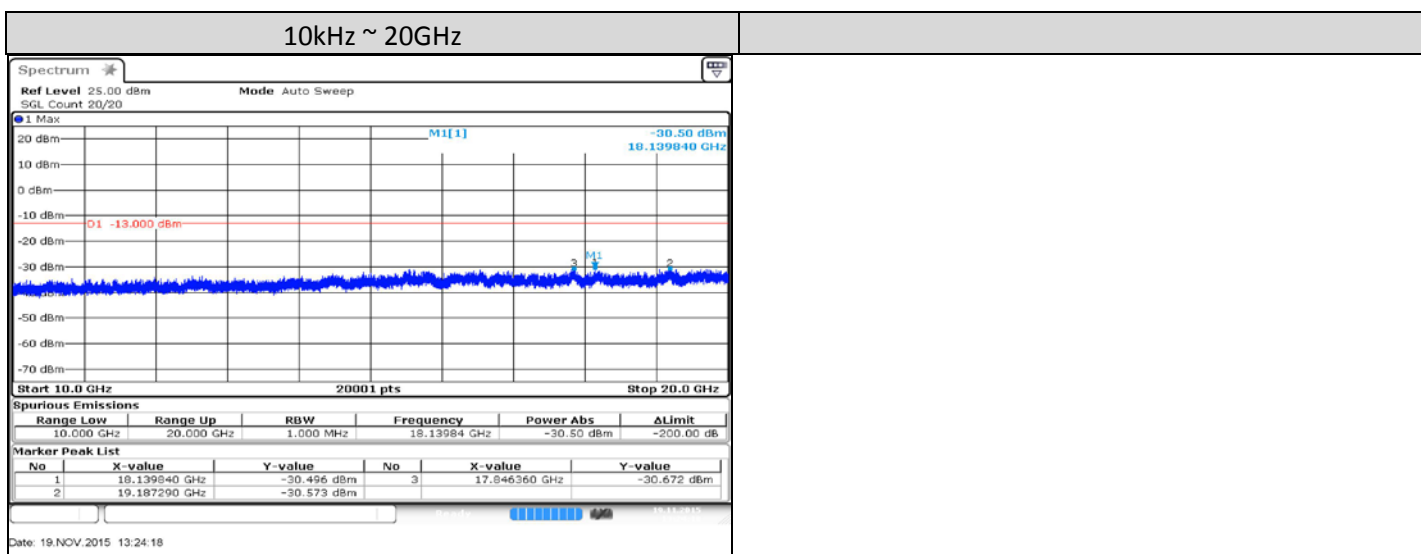
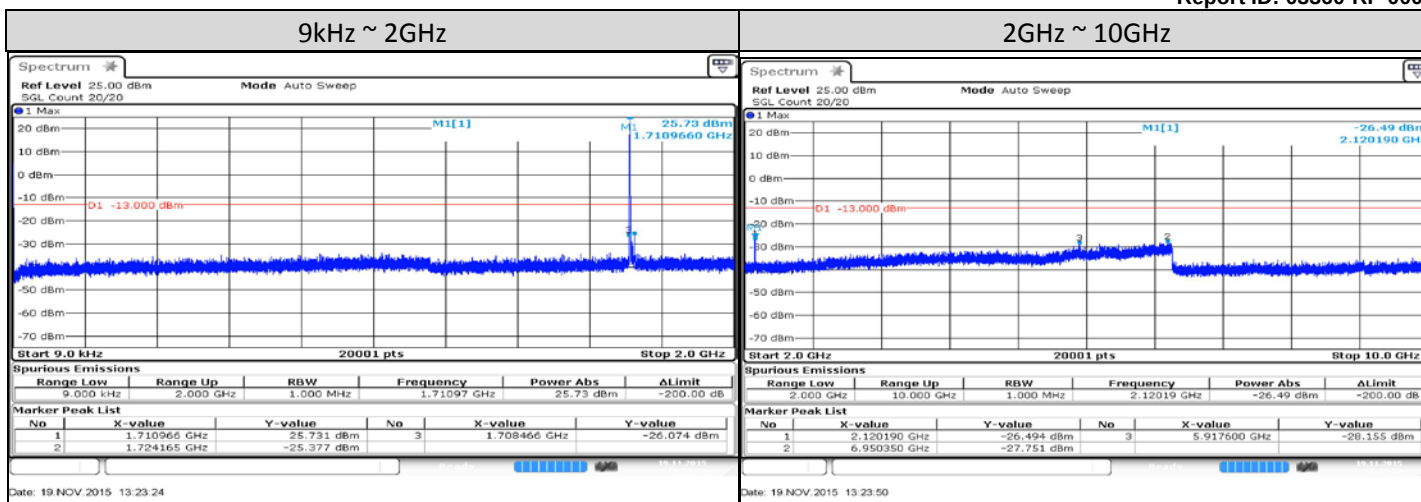
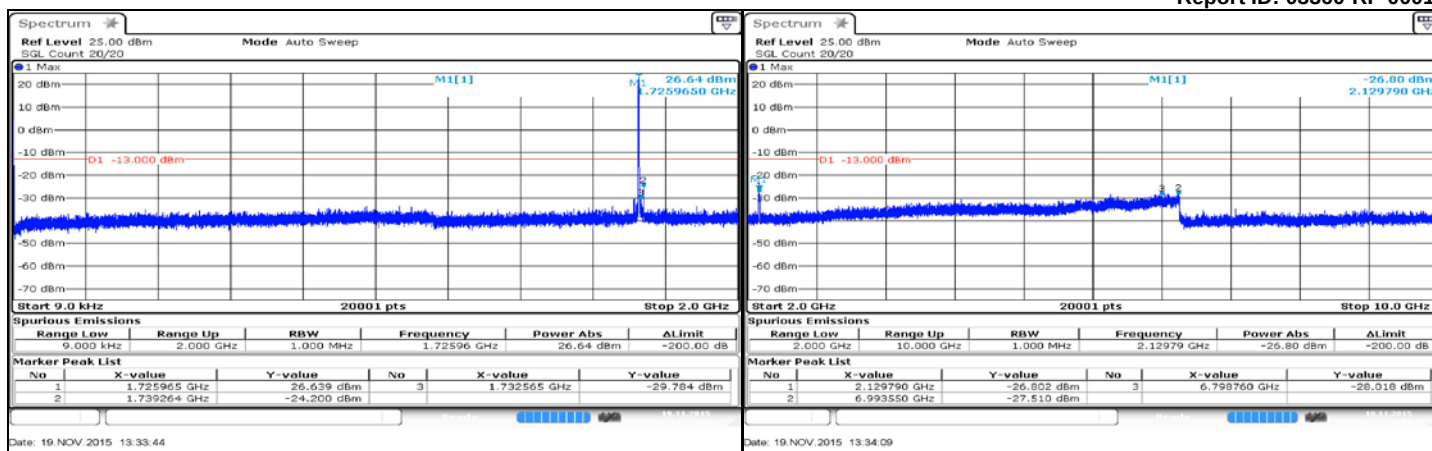
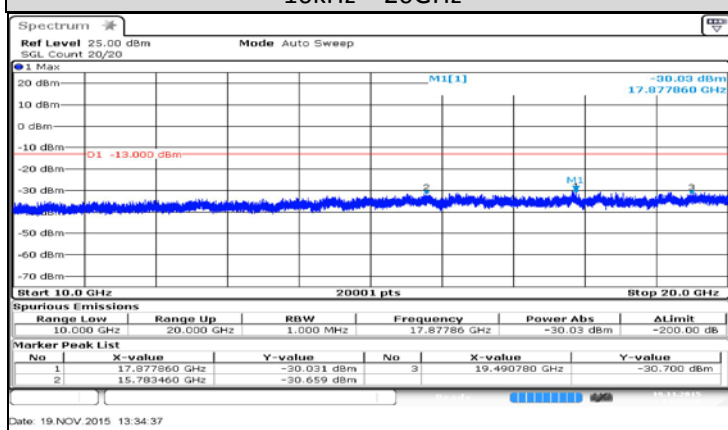




QPSK - Mid Freq (1732.5 MHz)	
RB Size =1, RB Offset = 38	
9kHz ~ 2GHz	2GHz ~ 10GHz



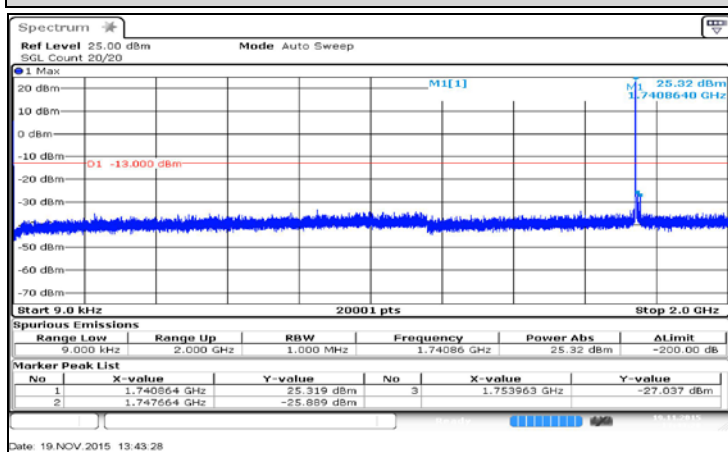
10kHz ~ 20GHz



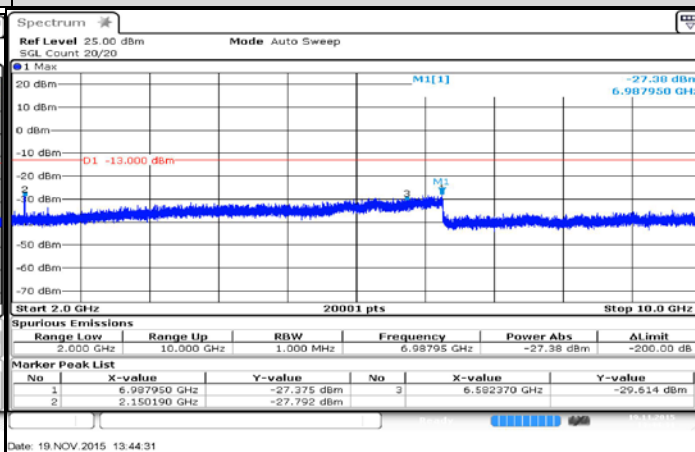
QPSK - High Freq (1747.5 MHz)

RB Size =1, RB Offset = 38

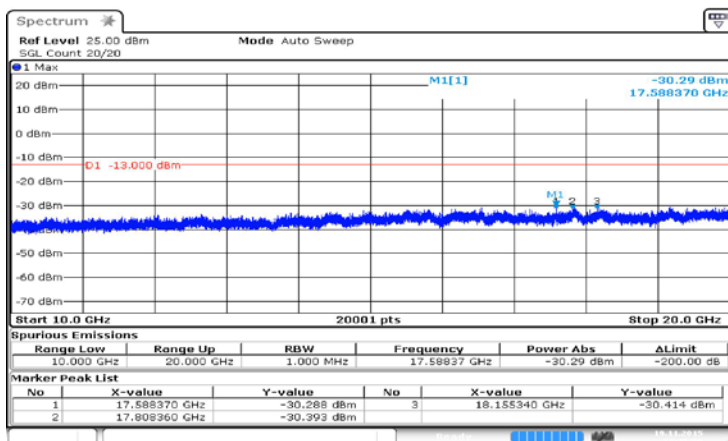
9kHz ~ 2GHz



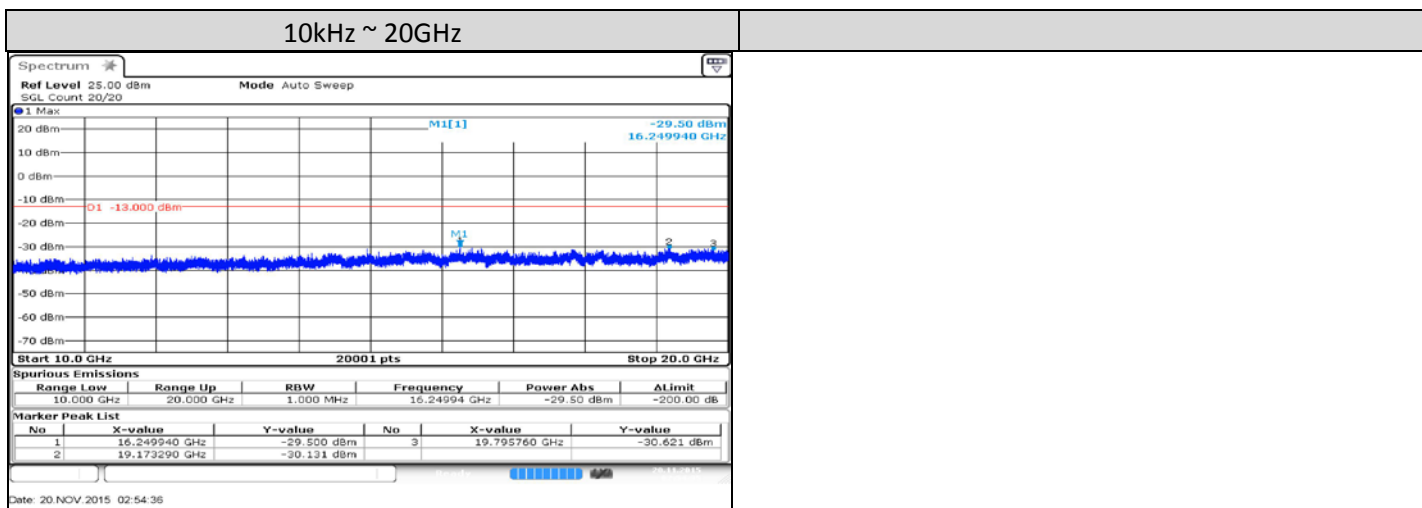
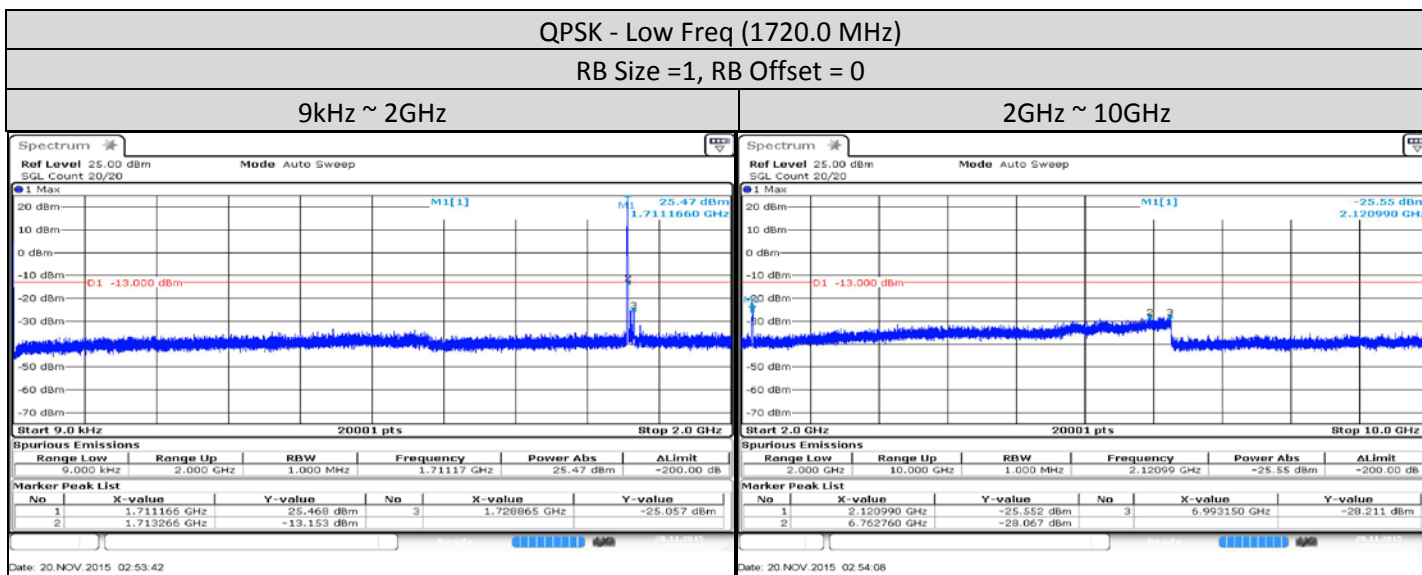
2GHz ~ 10GHz



10kHz ~ 20GHz



20MHz

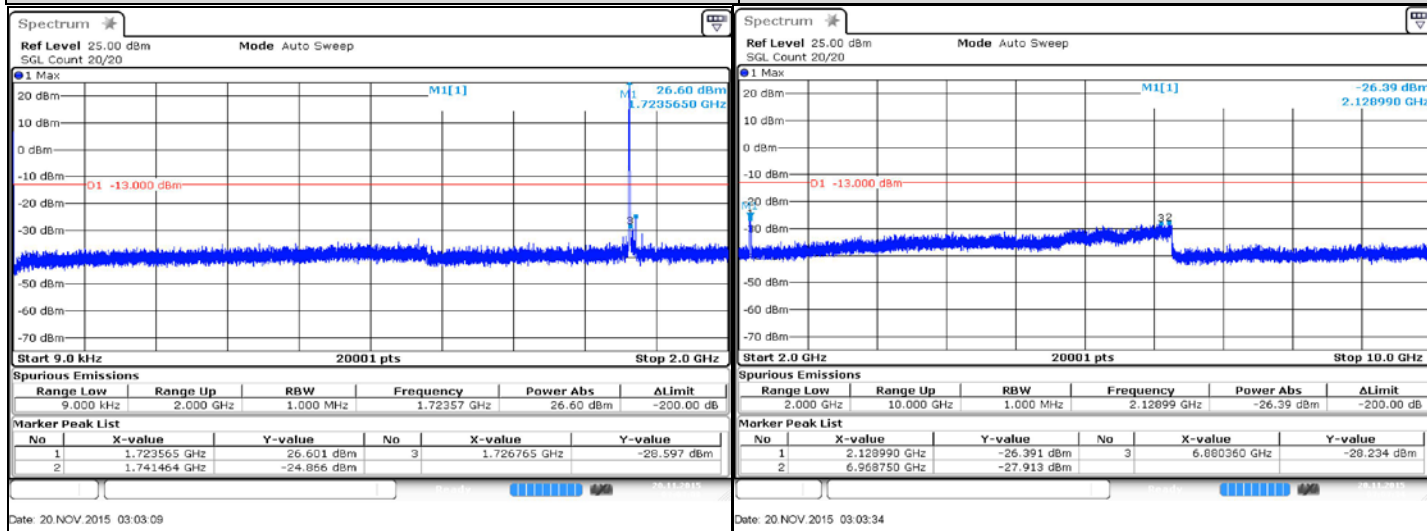


QPSK - Mid Freq (1732.5 MHz)

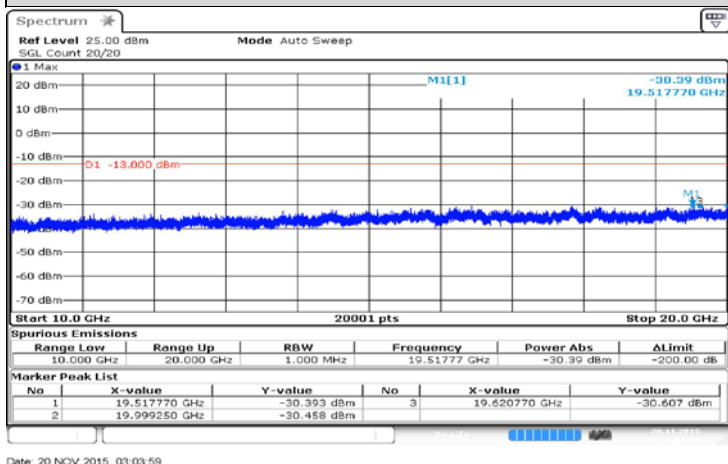
RB Size =1, RB Offset = 0

9kHz ~ 2GHz

2GHz ~ 10GHz



10kHz ~ 20GHz

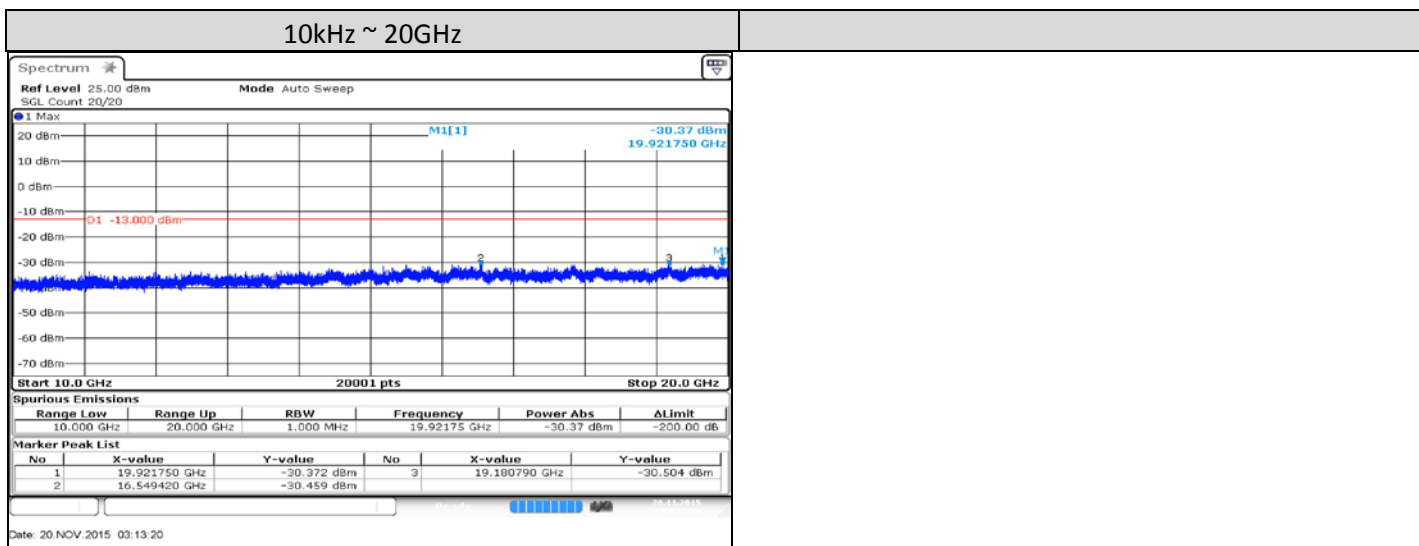
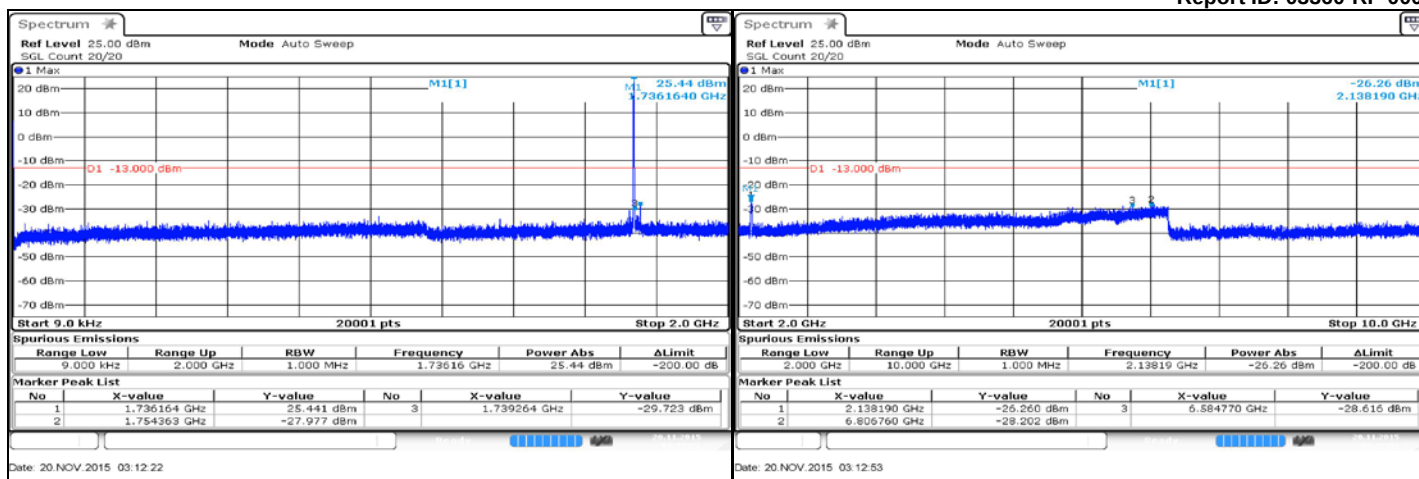


QPSK - High Freq (17450.0 MHz)

RB Size =1, RB Offset = 0

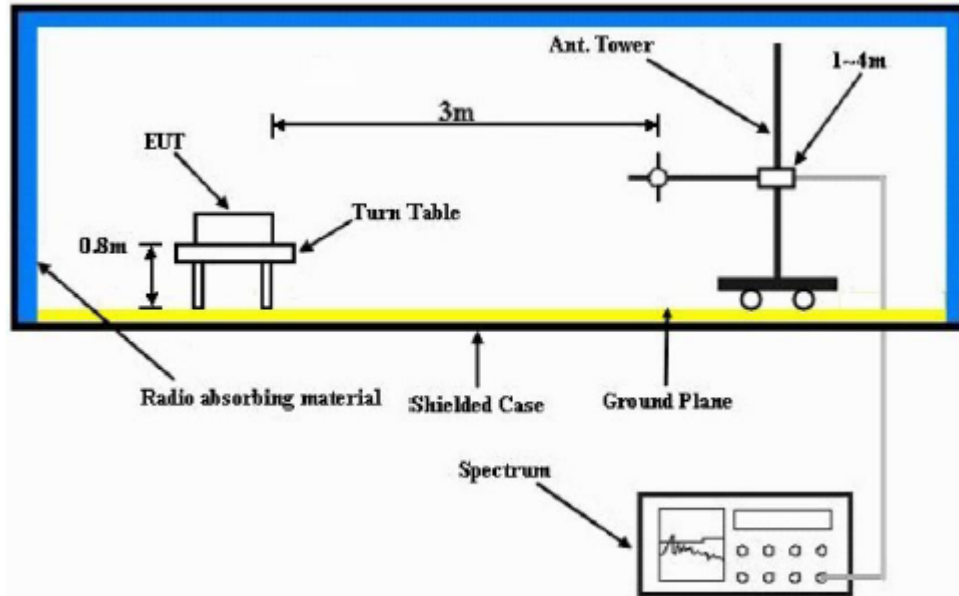
9kHz ~ 2GHz

2GHz ~ 10GHz



1.12. Radiated Spurious Emission

1.12.1. Test Setup



- 1) The spectrum setting for scanning Radiated Emission below 1 GHz is RBW = 100 kHz, VBW = 300 kHz and above 1 GHz is RBW = 1MHz, VBW = 3MHz. Detector mode is positive peak.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the 0.8m 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.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

1.12.2. Test Limit

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. The emission limit equal to -13dBm.

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

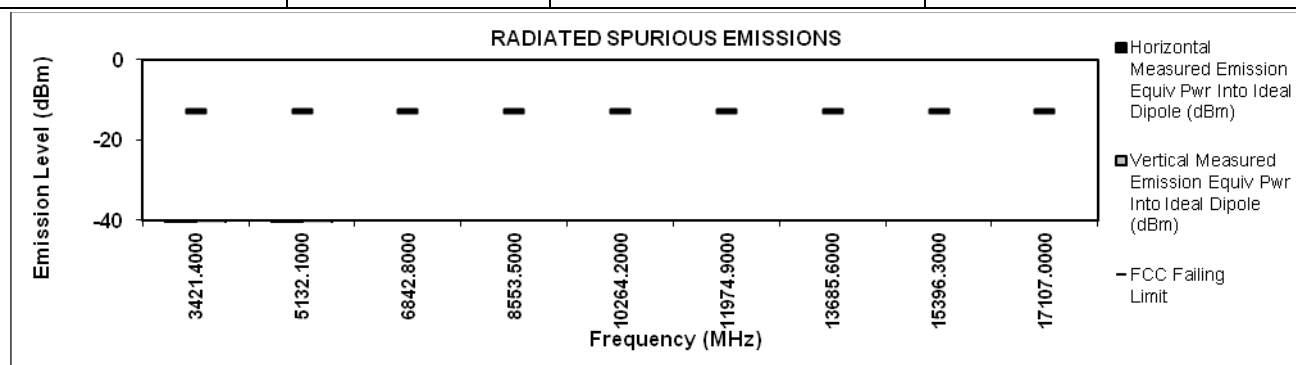
Band 4 (Low)

1710.7 MHz

Bandwidth 1.4 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

December 29, 2015

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

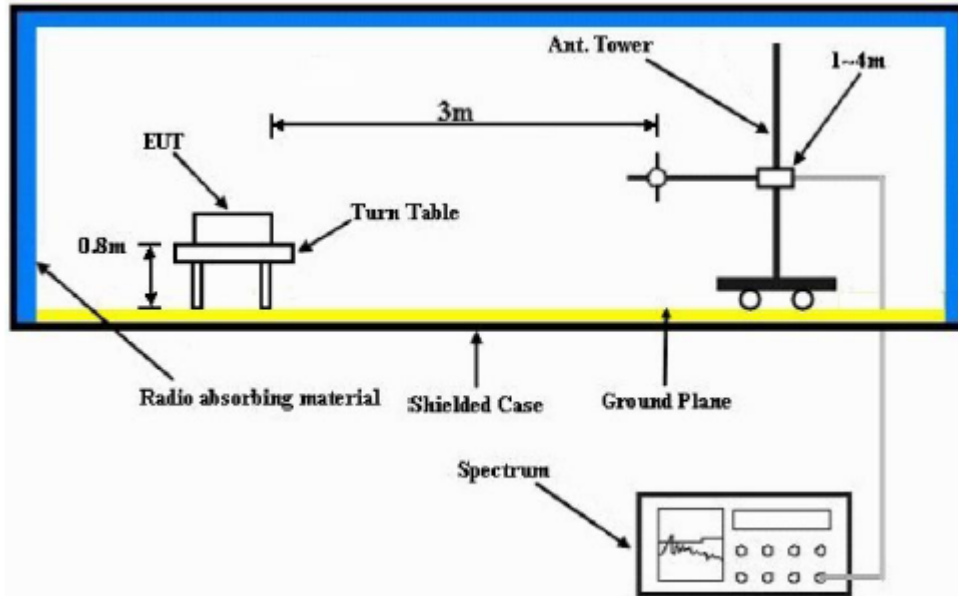
Temp(Deg): 24.8 Hum(%RH): 63.7

Remarks:

Passed Results	Marginal Results	Failed Results
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1.13. Equivalent Isotropically Radiated Power (EIRP)

1.13.1. Test Setup



- 1) The spectrum setting for Equivalent Isotropically Radiated Power (EIRP) is RBW = 100 kHz, VBW = 300 kHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval 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 for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15.$

1.13.2. Test Limit

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

1.13.3. Equivalent Isotropically Radiated Power (EIRP) - LTE Band 4 (1710-1755MHz)

Band 4, 1.4MHz QPSK, Low CH 19957	
RB = 1	Offset = 3

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1710.7	11.96	9.81
Vert.	1710.7	10.89	8.74

Band 4, 1.4MHz QPSK, Mid CH 20175	
RB = 1	Offset = 3

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	15.16	13.01
Vert.	1732.5	10.91	8.76

Band 4, 1.4MHz QPSK, High CH 20393	
RB = 1	Offset = 3

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1754.3	15.38	13.23
Vert.	1754.3	10.55	8.4

Band 4, 3MHz QPSK, Low CH 19965	
RB = 1	Offset = 14

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1711.5	15.85	13.7
Vert.	1711.5	13.29	11.14

Band 4, 3MHz QPSK, Mid CH 20175	
RB = 1	Offset = 14

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	19.59	17.44
Vert.	1732.5	14.57	12.42

Band 4, 3MHz QPSK, High CH 20385	
RB = 1	Offset = 14

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1753.5	13.68	11.53
Vert.	1753.5	13.12	10.97

Band 4, 5MHz QPSK, Low CH 19975	
RB = 1	Offset = 24

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1712.5	19.17	17.02
Vert.	1712.5	13.62	11.47

Band 4, 5MHz QPSK, Mid CH 20175	
RB = 1	Offset = 24

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	17.82	15.67
Vert.	1732.5	12.96	10.81

Band 4, 5MHz QPSK, High CH 20375	
RB = 1	Offset = 24

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1752.5	16.06	13.91
Vert.	1752.5	14.32	12.17

Band 4, 10MHz QPSK, Low CH 20000	
RB = 1	Offset = 25

EIRP/ERP

Bandwidth : 10 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1715	16.35	14.2
Vert.	1715	14.31	12.16

Band 4, 10MHz QPSK, Mid CH 20175	
RB = 1	Offset = 25

EIRP/ERP

Bandwidth : 10 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	18.08	15.93
Vert.	1732.5	15.95	13.8

Band 4, 10MHz QPSK, High CH 20350	
RB = 1	Offset = 25

EIRP/ERP

Bandwidth : 10 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1750	15.04	12.89
Vert.	1750	13.34	11.19

Band 4, 15MHz QPSK, Low CH 20025	
RB = 1	Offset = 38

EIRP/ERP

Bandwidth : 15 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1717.5	17.23	15.08
Vert.	1717.5	12.84	10.69

Band 4, 15MHz QPSK, Mid CH 20175	
RB = 1	Offset = 38

EIRP/ERP

Bandwidth : 15 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	18.77	16.62
Vert.	1732.5	12.67	10.52

Band 4, 15MHz QPSK, High CH 20325	
RB = 1	Offset = 38

EIRP/ERP

Bandwidth : 15 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1747.5	18.14	15.99
Vert.	1747.5	15.77	13.62

Band 4, 20MHz QPSK, Low CH 20050	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 20 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1720	16.68	14.53
Vert.	1720	12.51	10.36

Band 4, 20MHz QPSK, Mid CH 20175	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 20 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	19.12	16.97
Vert.	1732.5	10.90	8.75

Band 4, 20MHz QPSK, High CH 20300	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 20 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1745	18.07	15.92
Vert.	1745	13.10	10.95

Band 4, 1.4MHz 16QAM, Low CH 19957	
RB = 1	Offset = 3

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1710.7	14.69	12.54
Vert.	1710.7	14.24	12.09

Band 4, 1.4MHz 16QAM, Mid CH 20175	
RB = 1	Offset = 3

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	10.93	8.78
Vert.	1732.5	13.24	11.09

Band 4, 1.4MHz 16QAM, High CH 20393	
RB = 1	Offset = 3

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1754.3	12.42	10.27
Vert.	1754.3	12.25	10.1

Band 4, 3MHz 16QAM, Low CH 19965	
RB = 1	Offset = 14

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1711.5	13.68	11.53
Vert.	1711.5	9.65	7.5

Band 4, 3MHz 16QAM, Mid CH 20175	
RB = 1	Offset = 14

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	15.44	13.29
Vert.	1732.5	10.88	8.73

Band 4, 3MHz 16QAM, High CH 20385	
RB = 1	Offset = 14

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1753.5	15.53	13.38
Vert.	1753.5	8.07	5.92

Band 4, 5MHz 16QAM, Low CH 19975	
RB = 1	Offset = 24

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1712.5	16.47	14.32
Vert.	1712.5	13.61	11.46

Band 4, 5MHz 16QAM, Mid CH 20175	
RB = 1	Offset = 24

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	16.96	14.81
Vert.	1732.5	9.99	7.84

Band 4, 5MHz 16QAM, High CH 20375	
RB = 1	Offset = 24

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1752.5	11.61	9.46
Vert.	1752.5	8.05	5.9

Band 4, 10MHz 16QAM, Low CH 20000	
RB = 1	Offset = 25

EIRP/ERP

Bandwidth : 10 MHz
S/N: 171PRQ1568

Tx Power: 0.2512 Watts
Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1715	18.74	16.59
Vert.	1715	10.50	8.35

Band 4, 10MHz 16QAM, Mid CH 20175	
RB = 1	Offset = 25

EIRP/ERP

Bandwidth : 10 MHz
S/N: 171PRQ1568

Tx Power: 0.2512 Watts
Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	14.23	12.08
Vert.	1732.5	8.03	5.88

Band 4, 10MHz 16QAM, High CH 20350	
RB = 1	Offset = 25

EIRP/ERP

Bandwidth : 10 MHz
S/N: 171PRQ1568

Tx Power: 0.2512 Watts
Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1750	12.27	10.12
Vert.	1750	8.18	6.03

Band 4, 15MHz 16QAM, Low CH 20025	
RB = 1	Offset = 38

EIRP/ERP

Bandwidth : 15 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1717.5	16.22	14.07
Vert.	1717.5	9.08	6.93

Band 4, 15MHz 16QAM, Mid CH 20175	
RB = 1	Offset = 38

EIRP/ERP

Bandwidth : 15 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	14.78	12.63
Vert.	1732.5	14.07	11.92

Band 4, 15MHz 16QAM, High CH 20325	
RB = 1	Offset = 38

EIRP/ERP

Bandwidth : 15 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1747.5	11.39	9.24
Vert.	1747.5	8.81	6.66

Band 4, 20MHz 16QAM, Low CH 20050	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 20 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1720	13.85	11.7
Vert.	1720	9.57	7.42

Band 4, 20MHz 16QAM, Mid CH 20175	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 20 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1732.5	12.42	10.27
Vert.	1732.5	8.70	6.55

Band 4, 20MHz 16QAM, High CH 20300	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 20 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	1745	16.97	14.82
Vert.	1745	13.08	10.93