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Test Report No.: W7L-P21080006RF13

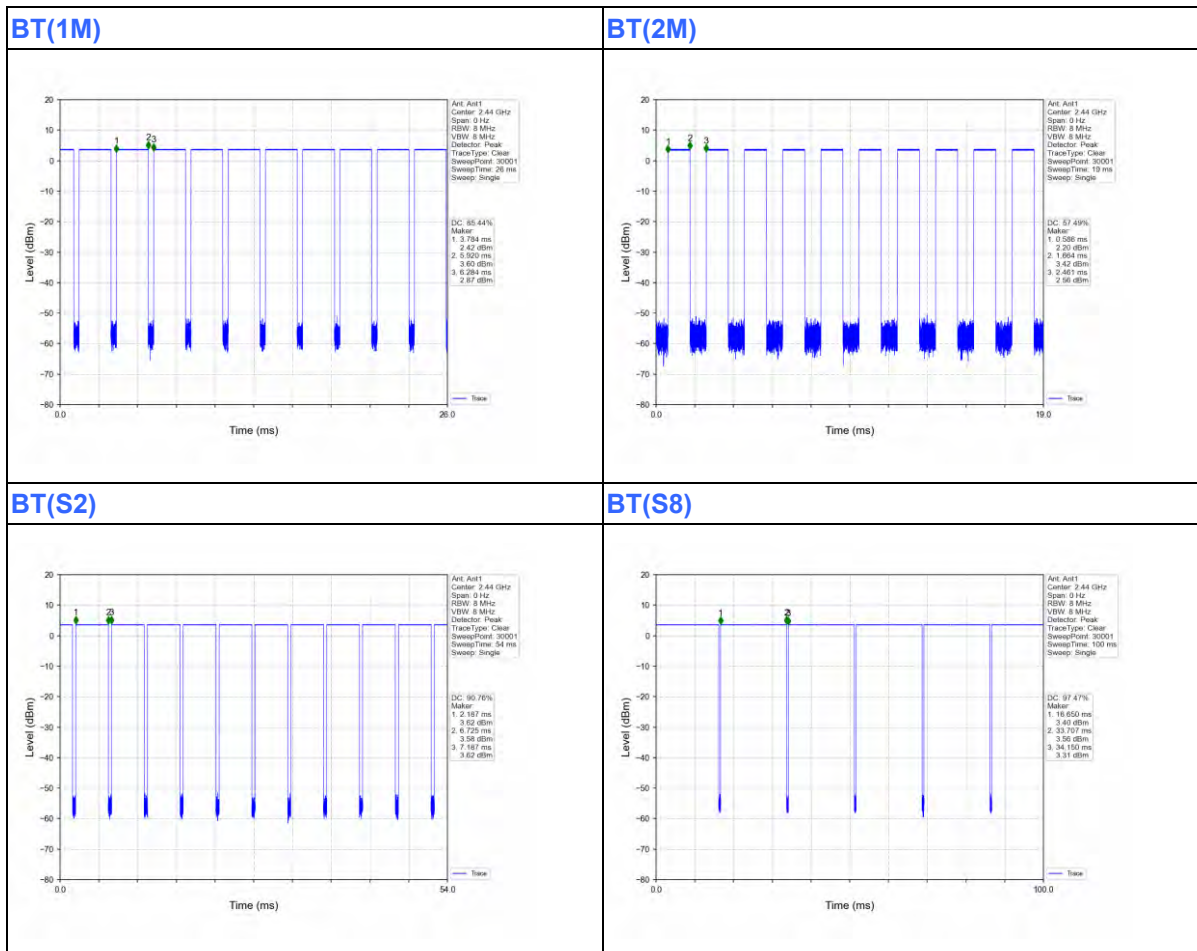
2SECEND-BT LE

2BLE -1M: Duty cycle = $2.136/2.500=0.854 < 98\%$, Duty factor = $10 * \log(1/0.854)=0.685$

2BLE -2M: Duty cycle = $1.078/1.875=0.575 < 98\%$, Duty factor = $10 * \log(1/0.575)=2.403$

2BLE -S2: Duty cycle = $4.538/5.000=0.908 < 98\%$, Duty factor = $10 * \log(1/0.908)=0.419$

2BLE -S8: Duty cycle = $17.057/17.500=0.975 < 98\%$, Duty factor = $10 * \log(1/0.975)=0.110$



2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.247

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2013

Note :

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad T450	PC-049PT1	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m



3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Mar. 03,21	Mar. 02,22
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 22,21	Feb. 21,22

NOTE:

1. The test was performed in CE shielded room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

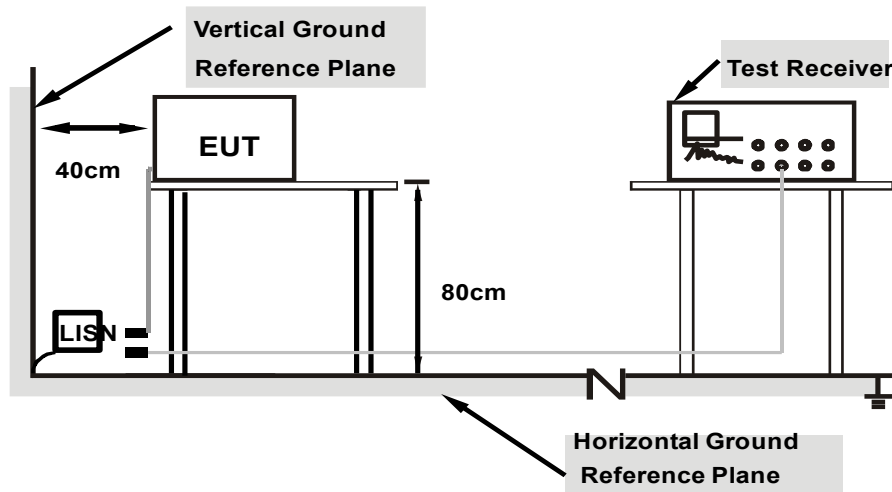
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes

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

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



3.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.202000	---	37.06	53.53	16.47	L1	ON	9.7
0.202000	38.07	---	63.53	25.46	L1	ON	9.7
0.268000	---	29.23	51.18	21.95	L1	ON	9.7
0.268000	30.33	---	61.18	30.85	L1	ON	9.7
0.488000	---	10.28	46.20	35.93	L1	ON	9.7
0.488000	20.94	---	56.20	35.27	L1	ON	9.7
0.880000	---	20.09	46.00	25.91	L1	ON	9.7
0.880000	24.00	---	56.00	32.00	L1	ON	9.7
1.748000	---	21.67	46.00	24.33	L1	ON	9.7
1.748000	24.23	---	56.00	31.77	L1	ON	9.7
19.096000	---	5.14	50.00	44.86	L1	ON	9.8
19.096000	14.52	---	60.00	45.48	L1	ON	9.8

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

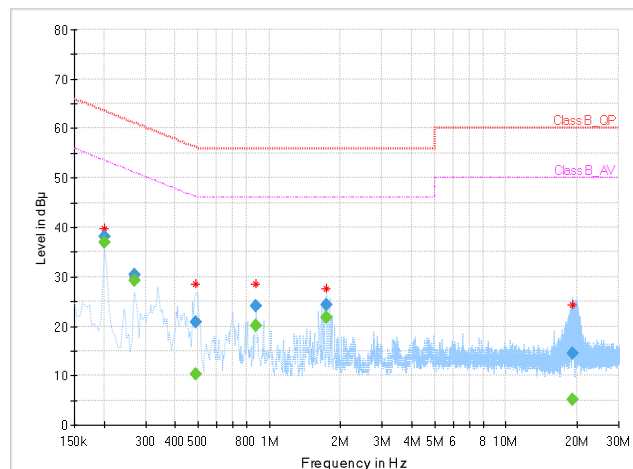
3. The emission levels of other frequencies were very low against the limit.

4. Margin value = Limit value - Emission level

5. Correction factor = Insertion loss + Cable loss

6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





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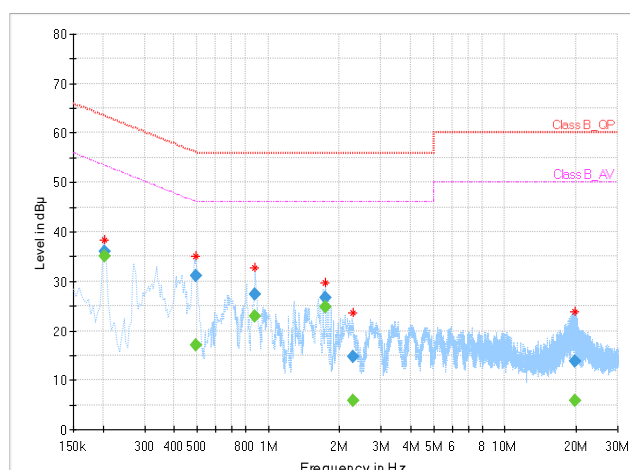
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Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.204000	---	35.07	53.45	18.38	N	ON	9.7
0.204000	36.14	---	63.45	27.31	N	ON	9.7
0.492000	---	17.06	46.13	29.08	N	ON	9.7
0.492000	31.11	---	56.13	25.02	N	ON	9.7
0.880000	---	22.83	46.00	23.17	N	ON	9.7
0.880000	27.33	---	56.00	28.67	N	ON	9.7
1.748000	---	24.88	46.00	21.12	N	ON	9.8
1.748000	26.61	---	56.00	29.39	N	ON	9.8
2.284000	---	5.96	46.00	40.04	N	ON	9.8
2.284000	14.70	---	56.00	41.30	N	ON	9.8
19.744000	---	5.81	50.00	44.19	N	ON	9.9
19.744000	13.81	---	60.00	46.19	N	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value -Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168728	Aug. 21,21	Aug. 20,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 26, 20	Aug. 25, 21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 26, 21	Aug. 25, 22
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

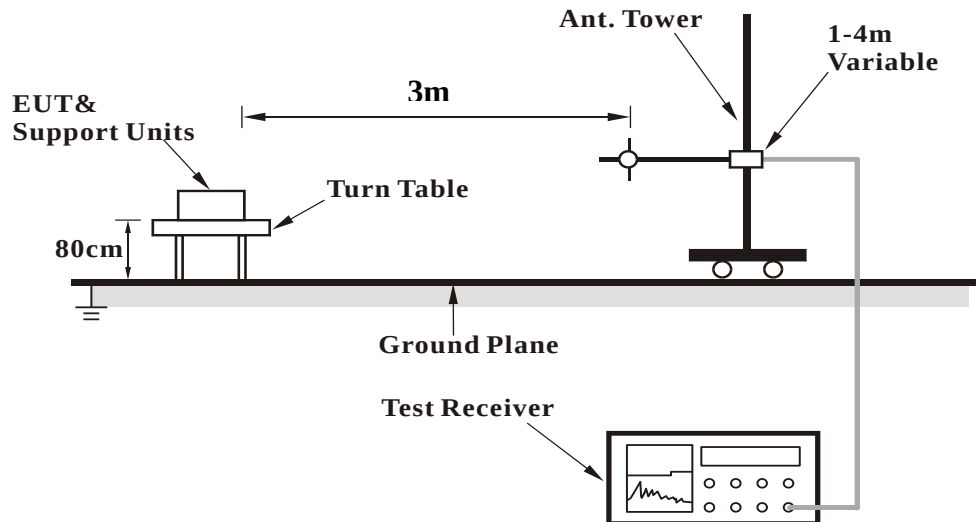


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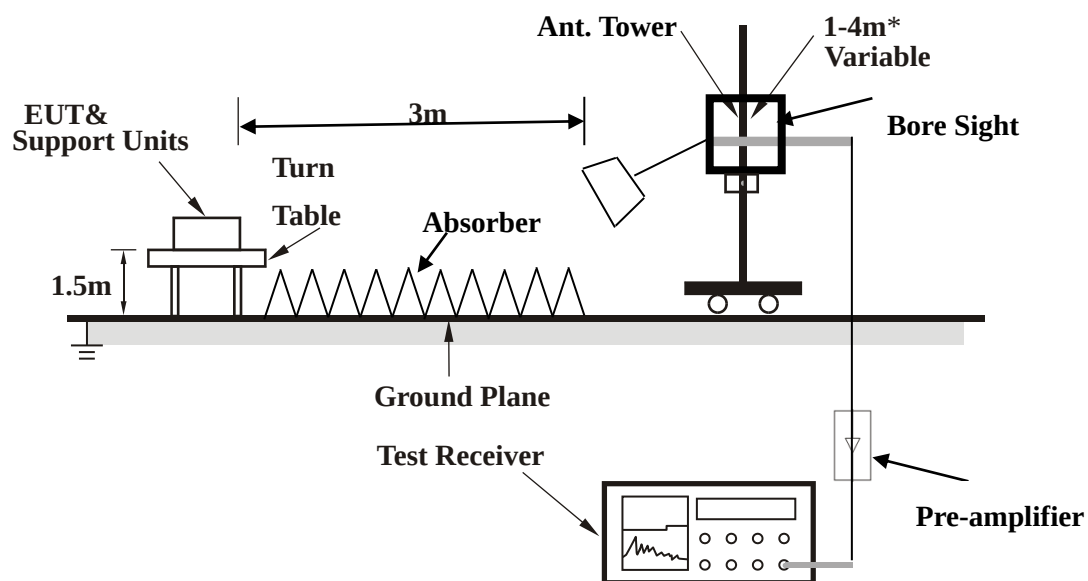
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3.2.5 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



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3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA :

30 MHz – 1GHz data:

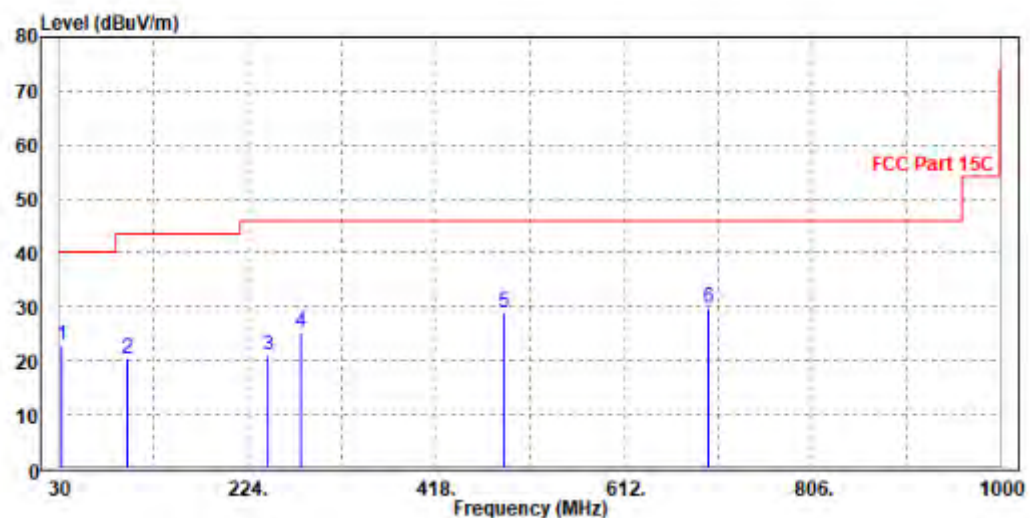
802.11n (40MHz)

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	22.75	39.44	40	-17.25	19.93	0.8	37.42	100	0	QP
100.81	20.47	47.27	43.5	-23.03	9.04	1.32	37.16	100	0	QP
244.37	21.09	42.61	46	-24.91	13.11	2.01	36.64	100	0	QP
279.29	25.13	46.14	46	-20.87	13.56	2.14	36.71	100	0	QP
487.84	28.86	43.98	46	-17.14	18.91	2.95	36.98	100	0	QP
698.33	29.81	41.07	46	-16.19	22.75	3.52	37.53	100	0	QP

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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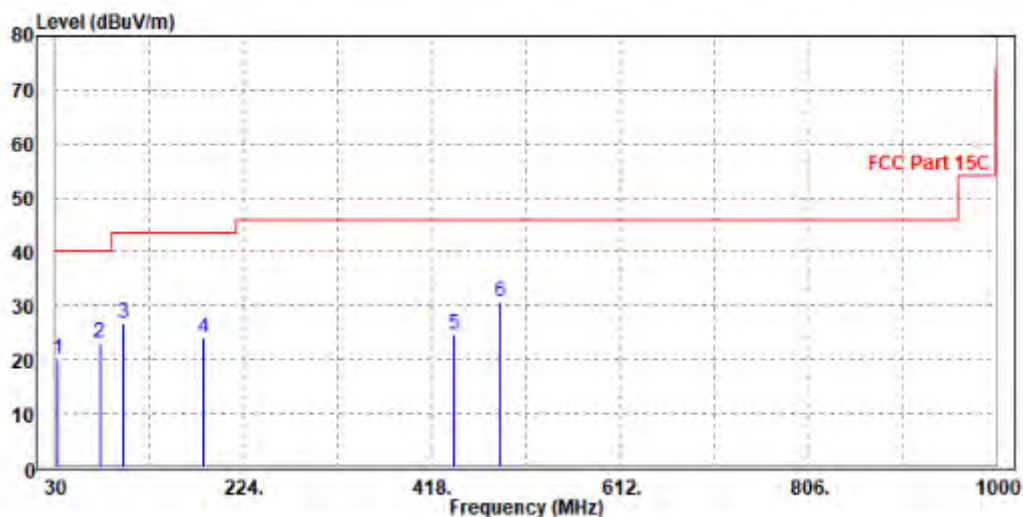
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CHANNEL	TX Channel 9	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	20.16	36.85	40	-19.84	19.93	0.8	37.42	100	0	QP
75.59	23.27	52.09	40	-16.73	7.32	1.2	37.34	100	0	QP
100.81	26.84	53.64	43.5	-16.66	9.04	1.32	37.16	100	0	QP
183.26	23.94	48.94	43.5	-19.56	9.92	1.71	36.63	100	0	QP
440.31	24.76	41.12	46	-21.24	17.77	2.77	36.9	100	0	QP
487.84	30.68	45.8	46	-15.32	18.91	2.95	36.98	100	0	QP

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





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ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

802.11b:

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.12	57.88	74	-24.88	31.75	5.86	46.37	195	225	Peak
2390	42.22	50.98	54	-11.78	31.75	5.86	46.37	195	225	Average
2412	99.3	107.96	-	-	31.82	5.89	46.37	195	225	Peak
2412	95.18	103.84	-	-	31.82	5.89	46.37	195	225	Average
2483.5	50.43	58.76	74	-23.57	32.05	5.99	46.37	195	225	Peak
2483.5	41.91	50.24	54	-12.09	32.05	5.99	46.37	195	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.17	59.54	74	-22.83	32.14	5.86	46.37	100	175	Peak
2390	43.52	51.89	54	-10.48	32.14	5.86	46.37	100	175	Average
2412	93.06	101.35	-	-	32.19	5.89	46.37	100	175	Peak
2412	90.99	99.28	-	-	32.19	5.89	46.37	100	175	Average
2483.5	49.88	57.9	74	-24.12	32.36	5.99	46.37	100	175	Peak
2483.5	43.84	51.86	54	-10.16	32.36	5.99	46.37	100	175	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.78	59.54	74	-23.22	31.75	5.86	46.37	195	225	Peak
2390	42.49	51.25	54	-11.51	31.75	5.86	46.37	195	225	Average
2437	98.72	107.26	-	-	31.9	5.93	46.37	195	225	Peak
2437	95.55	104.09	-	-	31.9	5.93	46.37	195	225	Average
2483.5	51.17	59.5	74	-22.83	32.05	5.99	46.37	195	225	Peak
2483.5	42.74	51.07	54	-11.26	32.05	5.99	46.37	195	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.63	61	74	-21.37	32.14	5.86	46.37	100	155	Peak
2390	42.55	50.92	54	-11.45	32.14	5.86	46.37	100	155	Average
2437	94.46	102.65	-	-	32.25	5.93	46.37	100	155	Peak
2437	90.33	98.52	-	-	32.25	5.93	46.37	100	155	Average
2483.5	49.49	57.51	74	-24.51	32.36	5.99	46.37	100	155	Peak
2483.5	42.41	50.43	54	-11.59	32.36	5.99	46.37	100	155	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.82	58.58	74	-24.18	31.75	5.86	46.37	190	270	Peak
2390	41.81	50.57	54	-12.19	31.75	5.86	46.37	190	270	Average
2462	96.2	104.63	-	-	31.98	5.96	46.37	190	270	Peak
2462	93.37	101.8	-	-	31.98	5.96	46.37	190	270	Average
2483.5	50.79	59.12	74	-23.21	32.05	5.99	46.37	190	270	Peak
2483.5	43.98	52.31	54	-10.02	32.05	5.99	46.37	190	270	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.39	57.76	74	-24.61	32.14	5.86	46.37	100	155	Peak
2390	42.51	50.88	54	-11.49	32.14	5.86	46.37	100	155	Average
2462	94.03	102.13	-	-	32.31	5.96	46.37	100	155	Peak
2462	90.85	98.95	-	-	32.31	5.96	46.37	100	155	Average
2483.5	49.95	57.97	74	-24.05	32.36	5.99	46.37	100	155	Peak
2483.5	43.19	51.21	54	-10.81	32.36	5.99	46.37	100	155	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	56.14	64.9	74	-17.86	31.75	5.86	46.37	100	215	Peak
2390	46.88	55.64	54	-7.12	31.75	5.86	46.37	100	215	Average
2412	104.38	113.04	-	-	31.82	5.89	46.37	100	215	Peak
2412	95.53	104.19	-	-	31.82	5.89	46.37	100	215	Average
2483.5	52.92	61.25	74	-21.08	32.05	5.99	46.37	100	215	Peak
2483.5	44.39	52.72	54	-9.61	32.05	5.99	46.37	100	215	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.03	59.4	74	-22.97	32.14	5.86	46.37	100	160	Peak
2390	44.27	52.64	54	-9.73	32.14	5.86	46.37	100	160	Average
2412	98.83	107.12	-	-	32.19	5.89	46.37	100	160	Peak
2412	90.5	98.79	-	-	32.19	5.89	46.37	100	160	Average
2483.5	49.66	57.68	74	-24.34	32.36	5.99	46.37	100	160	Peak
2483.5	42.32	50.34	54	-11.68	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.53	60.29	74	-22.47	31.75	5.86	46.37	100	215	Peak
2390	42.67	51.43	54	-11.33	31.75	5.86	46.37	100	215	Average
2437	104.41	112.95	-	-	31.9	5.93	46.37	100	215	Peak
2437	95.43	103.97	-	-	31.9	5.93	46.37	100	215	Average
2483.5	51.25	59.58	74	-22.75	32.05	5.99	46.37	100	215	Peak
2483.5	42.16	50.49	54	-11.84	32.05	5.99	46.37	100	215	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.2	59.57	74	-22.8	32.14	5.86	46.37	100	160	Peak
2390	43.11	51.48	54	-10.89	32.14	5.86	46.37	100	160	Average
2437	100.01	108.2	-	-	32.25	5.93	46.37	100	160	Peak
2437	90.99	99.18	-	-	32.25	5.93	46.37	100	160	Average
2483.5	50.86	58.88	74	-23.14	32.36	5.99	46.37	100	160	Peak
2483.5	42.34	50.36	54	-11.66	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.21	58.97	74	-23.79	31.75	5.86	46.37	100	215	Peak
2390	42.36	51.12	54	-11.64	31.75	5.86	46.37	100	215	Average
2462	103.98	112.41	-	-	31.98	5.96	46.37	100	215	Peak
2462	95.86	104.29	-	-	31.98	5.96	46.37	100	215	Average
2483.5	54.36	62.69	74	-19.64	32.05	5.99	46.37	100	215	Peak
2483.5	45.46	53.79	54	-8.54	32.05	5.99	46.37	100	215	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.95	58.32	74	-24.05	32.14	5.86	46.37	100	160	Peak
2390	43.21	51.58	54	-10.79	32.14	5.86	46.37	100	160	Average
2462	100.17	108.27	-	-	32.31	5.96	46.37	100	160	Peak
2462	96.16	104.26	-	-	32.31	5.96	46.37	100	160	Average
2483.5	51.57	59.59	74	-22.43	32.36	5.99	46.37	100	160	Peak
2483.5	43.82	51.84	54	-10.18	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	55.94	64.7	74	-18.06	31.75	5.86	46.37	100	215	Peak
2390	47.78	56.54	54	-6.22	31.75	5.86	46.37	100	215	Average
2412	102.13	110.79	-	-	31.82	5.89	46.37	100	215	Peak
2412	95.16	103.82	-	-	31.82	5.89	46.37	100	215	Average
2483.5	51.64	59.97	74	-22.36	32.05	5.99	46.37	100	215	Peak
2483.5	44.18	52.51	54	-9.82	32.05	5.99	46.37	100	215	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.06	60.43	74	-21.94	32.14	5.86	46.37	100	175	Peak
2390	44.09	52.46	54	-9.91	32.14	5.86	46.37	100	175	Average
2412	99.07	107.36	-	-	32.19	5.89	46.37	100	175	Peak
2412	90.62	98.91	-	-	32.19	5.89	46.37	100	175	Average
2483.5	50.81	58.83	74	-23.19	32.36	5.99	46.37	100	175	Peak
2483.5	42.62	50.64	54	-11.38	32.36	5.99	46.37	100	175	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.53	60.29	74	-22.47	31.75	5.86	46.37	200	235	Peak
2390	44.11	52.87	54	-9.89	31.75	5.86	46.37	200	235	Average
2437	114.44	122.98	-	-	31.9	5.93	46.37	200	235	Peak
2437	97.84	106.38	-	-	31.9	5.93	46.37	200	235	Average
2483.5	52.63	60.96	74	-21.37	32.05	5.99	46.37	200	235	Peak
2483.5	46.03	54.36	54	-7.97	32.05	5.99	46.37	200	235	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.5	60.87	74	-21.5	32.14	5.86	46.37	105	160	Peak
2390	44.76	53.13	54	-9.24	32.14	5.86	46.37	105	160	Average
2437	101.24	109.43	-	-	32.25	5.93	46.37	105	160	Peak
2437	94.26	102.45	-	-	32.25	5.93	46.37	105	160	Average
2483.5	52.15	60.17	74	-21.85	32.36	5.99	46.37	105	160	Peak
2483.5	44.94	52.96	54	-9.06	32.36	5.99	46.37	105	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.81	59.57	74	-23.19	31.75	5.86	46.37	195	230	Peak
2390	43.87	52.63	54	-10.13	31.75	5.86	46.37	195	230	Average
2462	104.44	112.87	-	-	31.98	5.96	46.37	195	230	Peak
2462	97.9	106.33	-	-	31.98	5.96	46.37	195	230	Average
2483.5	56.78	65.11	74	-17.22	32.05	5.99	46.37	195	230	Peak
2483.5	48.03	56.36	54	-5.97	32.05	5.99	46.37	195	230	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.25	60.62	74	-21.75	32.14	5.86	46.37	100	160	Peak
2390	44.4	52.77	54	-9.6	32.14	5.86	46.37	100	160	Average
2462	100.07	108.17	-	-	32.31	5.96	46.37	100	160	Peak
2462	93.25	101.35	-	-	32.31	5.96	46.37	100	160	Average
2483.5	52.68	60.7	74	-21.32	32.36	5.99	46.37	100	160	Peak
2483.5	44.86	52.88	54	-9.14	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	59.22	67.98	74	-14.78	31.75	5.86	46.37	100	215	Peak
2390	50.86	59.62	54	-3.14	31.75	5.86	46.37	100	215	Average
2422	100.81	109.42	-	-	31.85	5.91	46.37	100	215	Peak
2422	94.6	103.21	-	-	31.85	5.91	46.37	100	215	Average
2483.5	52.79	61.12	74	-21.21	32.05	5.99	46.37	100	215	Peak
2483.5	45.02	53.35	54	-8.98	32.05	5.99	46.37	100	215	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.47	62.84	74	-19.53	32.14	5.86	46.37	100	170	Peak
2390	47.02	55.39	54	-6.98	32.14	5.86	46.37	100	170	Average
2422	98.04	106.29	-	-	32.21	5.91	46.37	100	170	Peak
2422	91.86	100.11	-	-	32.21	5.91	46.37	100	170	Average
2483.5	52.12	60.14	74	-21.88	32.36	5.99	46.37	100	170	Peak
2483.5	45.5	53.52	54	-8.5	32.36	5.99	46.37	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2422MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	56.32	65.08	74	-17.68	31.75	5.86	46.37	100	215	Peak
2390	47.81	56.57	54	-6.19	31.75	5.86	46.37	100	215	Average
2437	103	111.54	–	–	31.9	5.93	46.37	100	215	Peak
2437	95.77	104.31	–	–	31.9	5.93	46.37	100	215	Average
2483.5	57.54	65.87	74	-16.46	32.05	5.99	46.37	100	215	Peak
2483.5	48.14	56.47	54	-5.86	32.05	5.99	46.37	100	215	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.37	62.74	74	-19.63	32.14	5.86	46.37	100	160	Peak
2390	45.2	53.57	54	-8.8	32.14	5.86	46.37	100	160	Average
2437	99.55	107.74	–	–	32.25	5.93	46.37	100	160	Peak
2437	92.67	100.86	–	–	32.25	5.93	46.37	100	160	Average
2483.5	53.03	61.05	74	-20.97	32.36	5.99	46.37	100	160	Peak
2483.5	45.91	53.93	54	-8.09	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.99	59.75	74	-23.01	31.75	5.86	46.37	170	230	Peak
2390	44.04	52.8	54	-9.96	31.75	5.86	46.37	170	230	Average
2452	99.8	108.27	-	-	31.95	5.95	46.37	170	230	Peak
2452	92.92	101.39	-	-	31.95	5.95	46.37	170	230	Average
2483.5	56.7	65.03	74	-17.3	32.05	5.99	46.37	170	230	Peak
2483.5	50.93	59.26	54	-3.07	32.05	5.99	46.37	170	230	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53	61.37	74	-21	32.14	5.86	46.37	100	160	Peak
2390	44.69	53.06	54	-9.31	32.14	5.86	46.37	100	160	Average
2452	95.46	103.6	-	-	32.28	5.95	46.37	100	160	Peak
2452	88.56	96.7	-	-	32.28	5.95	46.37	100	160	Average
2483.5	53.99	62.01	74	-20.01	32.36	5.99	46.37	100	160	Peak
2483.5	46.17	54.19	54	-7.83	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

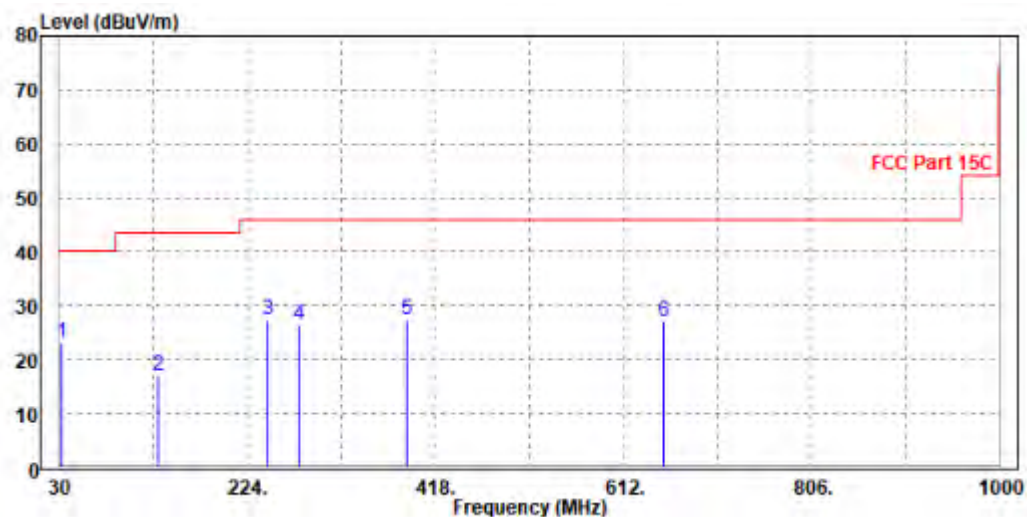
BT-LE _2M

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	23.18	39.87	40	-16.82	19.93	0.8	37.42	100	0	QP
131.47	17.12	45.29	43.5	-26.38	7.33	1.49	36.99	100	0	QP
244.37	27.27	48.79	46	-18.73	13.11	2.01	36.64	100	0	QP
277.35	26.35	47.37	46	-19.65	13.55	2.13	36.7	100	0	QP
388.84	27.26	45.07	46	-18.74	16.44	2.57	36.82	100	0	QP
653.71	26.98	39.62	46	-19.02	21.46	3.36	37.46	100	0	QP

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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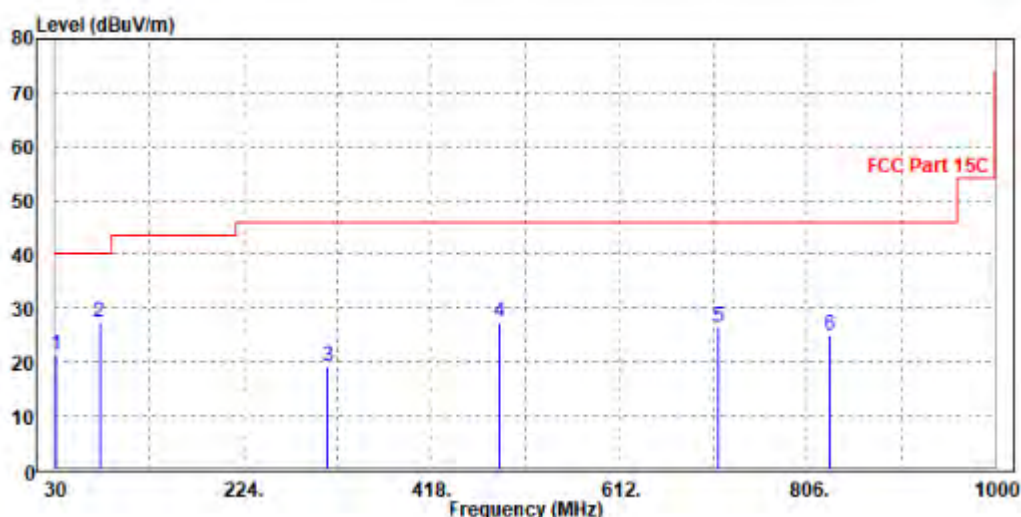
Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30.97	21.39	37.54	40	-18.61	20.42	0.79	37.36	100	0	QP
75.59	27.46	56.28	40	-12.54	7.32	1.2	37.34	100	0	QP
310.31	19.17	39.75	46	-26.83	13.93	2.25	36.76	100	0	QP
487.84	27.43	42.55	46	-18.57	18.91	2.95	36.98	100	0	QP
713.85	26.47	37.54	46	-19.53	22.9	3.58	37.55	100	0	QP
828.31	25.09	35.3	46	-20.91	23.58	3.93	37.72	100	0	QP

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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Test Report No.: W7L-P21080006RF13

ABOVE 1GHz TEST DATA

Note: For higher frequency, the emission is too low to be detected.

BT-LE_1M

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.61	59.37	74	-23.39	31.75	5.86	46.37	120	220	Peak
2390	44.04	52.8	54	-9.96	31.75	5.86	46.37	120	220	Average
2402	99.8	108.5	–	–	31.79	5.88	46.37	120	220	Peak
2402	99.14	107.84	–	–	31.79	5.88	46.37	120	220	Average
2483.5	51.11	59.44	74	-22.89	32.05	5.99	46.37	120	220	Peak
2483.5	43.85	52.18	54	-10.15	32.05	5.99	46.37	120	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.28	59.65	74	-22.72	32.14	5.86	46.37	100	150	Peak
2390	43.73	52.1	54	-10.27	32.14	5.86	46.37	100	150	Average
2402	97.29	105.62	–	–	32.16	5.88	46.37	100	150	Peak
2402	95.85	104.18	–	–	32.16	5.88	46.37	100	150	Average
2483.5	52.71	60.73	74	-21.29	32.36	5.99	46.37	100	150	Peak
2483.5	44.52	52.54	54	-9.48	32.36	5.99	46.37	100	150	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.38	59.14	74	-23.62	31.75	5.86	46.37	100	220	Peak
2390	43.31	52.07	54	-10.69	31.75	5.86	46.37	100	220	Average
2440	100.86	109.39	-	-	31.91	5.93	46.37	100	220	Peak
2440	99.61	108.14	-	-	31.91	5.93	46.37	100	220	Average
2483.5	52.21	60.54	74	-21.79	32.05	5.99	46.37	100	220	Peak
2483.5	43.87	52.2	54	-10.13	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.91	59.28	74	-23.09	32.14	5.86	46.37	100	150	Peak
2390	44.45	52.82	54	-9.55	32.14	5.86	46.37	100	150	Average
2440	97.79	105.97	-	-	32.26	5.93	46.37	100	150	Peak
2440	95.62	103.8	-	-	32.26	5.93	46.37	100	150	Average
2483.5	53.52	61.54	74	-20.48	32.36	5.99	46.37	100	150	Peak
2483.5	45	53.02	54	-9	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.92	59.68	74	-23.08	31.75	5.86	46.37	100	220	Peak
2390	43.25	52.01	54	-10.75	31.75	5.86	46.37	100	220	Average
2480	101.15	109.5	–	–	32.04	5.98	46.37	100	220	Peak
2480	100.49	108.84	–	–	32.04	5.98	46.37	100	220	Average
2483.5	54.54	62.87	74	-19.46	32.05	5.99	46.37	100	220	Peak
2483.5	44.25	52.58	54	-9.75	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.22	59.59	74	-22.78	32.14	5.86	46.37	100	155	Peak
2390	43.71	52.08	54	-10.29	32.14	5.86	46.37	100	155	Average
2480	98.21	106.25	–	–	32.35	5.98	46.37	100	155	Peak
2480	96.23	104.27	–	–	32.35	5.98	46.37	100	155	Average
2483.5	52.57	60.59	74	-21.43	32.36	5.99	46.37	100	155	Peak
2483.5	44.48	52.5	54	-9.52	32.36	5.99	46.37	100	155	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

BT-LE_2M

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.26	60.02	74	-22.74	31.75	5.86	46.37	120	220	Peak
2390	42.12	50.88	54	-11.88	31.75	5.86	46.37	120	220	Average
2402	99.74	108.44	-	-	31.79	5.88	46.37	120	220	Peak
2402	97.06	105.76	-	-	31.79	5.88	46.37	120	220	Average
2483.5	50.75	59.08	74	-23.25	32.05	5.99	46.37	120	220	Peak
2483.5	43.61	51.94	54	-10.39	32.05	5.99	46.37	120	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.71	59.08	74	-23.29	32.14	5.86	46.37	100	155	Peak
2390	43.18	51.55	54	-10.82	32.14	5.86	46.37	100	155	Average
2402	96.88	105.21	-	-	32.16	5.88	46.37	100	155	Peak
2402	93.37	101.7	-	-	32.16	5.88	46.37	100	155	Average
2483.5	51.97	59.99	74	-22.03	32.36	5.99	46.37	100	155	Peak
2483.5	44.63	52.65	54	-9.37	32.36	5.99	46.37	100	155	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.05	59.81	74	-22.95	31.75	5.86	46.37	120	220	Peak
2390	43.69	52.45	54	-10.31	31.75	5.86	46.37	120	220	Average
2440	98.58	107.11	-	-	31.91	5.93	46.37	120	220	Peak
2440	95.73	104.26	-	-	31.91	5.93	46.37	120	220	Average
2483.5	51.18	59.51	74	-22.82	32.05	5.99	46.37	120	220	Peak
2483.5	43.89	52.22	54	-10.11	32.05	5.99	46.37	120	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.75	60.12	74	-22.25	32.14	5.86	46.37	100	150	Peak
2390	43.79	52.16	54	-10.21	32.14	5.86	46.37	100	150	Average
2440	95.99	104.17	-	-	32.26	5.93	46.37	100	150	Peak
2440	92.4	100.58	-	-	32.26	5.93	46.37	100	150	Average
2483.5	51.54	59.56	74	-22.46	32.36	5.99	46.37	100	150	Peak
2483.5	44.04	52.06	54	-9.96	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.9	59.66	74	-23.1	31.75	5.86	46.37	100	220	Peak
2390	42.28	51.04	54	-11.72	31.75	5.86	46.37	100	220	Average
2480	100.81	109.16	–	–	32.04	5.98	46.37	100	220	Peak
2480	97.41	105.76	–	–	32.04	5.98	46.37	100	220	Average
2483.5	52.93	61.26	74	-21.07	32.05	5.99	46.37	100	220	Peak
2483.5	44.25	52.58	54	-9.75	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.74	59.11	74	-23.26	32.14	5.86	46.37	100	150	Peak
2390	43.84	52.21	54	-10.16	32.14	5.86	46.37	100	150	Average
2480	97.19	105.23	–	–	32.35	5.98	46.37	100	150	Peak
2480	94.72	102.76	–	–	32.35	5.98	46.37	100	150	Average
2483.5	54.58	62.6	74	-19.42	32.36	5.99	46.37	100	150	Peak
2483.5	43.64	51.66	54	-10.36	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

BT-LE _S2

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.42	60.18	74	-22.58	31.75	5.86	46.37	100	220	Peak
2390	43.38	52.14	54	-10.62	31.75	5.86	46.37	100	220	Average
2402	97.71	106.41	-	-	31.79	5.88	46.37	100	220	Peak
2402	96.97	105.67	-	-	31.79	5.88	46.37	100	220	Average
2483.5	51.38	59.71	74	-22.62	32.05	5.99	46.37	100	220	Peak
2483.5	43.52	51.85	54	-10.48	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.71	60.08	74	-22.29	32.14	5.86	46.37	100	150	Peak
2390	43.55	51.92	54	-10.45	32.14	5.86	46.37	100	150	Average
2402	95.76	104.09	-	-	32.16	5.88	46.37	100	150	Peak
2402	94.74	103.07	-	-	32.16	5.88	46.37	100	150	Average
2483.5	51.56	59.58	74	-22.44	32.36	5.99	46.37	100	150	Peak
2483.5	43.62	51.64	54	-10.38	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.07	58.83	74	-23.93	31.75	5.86	46.37	100	220	Peak
2390	42.68	51.44	54	-11.32	31.75	5.86	46.37	100	220	Average
2440	99.12	107.65	-	-	31.91	5.93	46.37	100	220	Peak
2440	98.13	106.66	-	-	31.91	5.93	46.37	100	220	Average
2483.5	50.06	58.39	74	-23.94	32.05	5.99	46.37	100	220	Peak
2483.5	42.53	50.86	54	-11.47	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.07	58.44	74	-23.93	32.14	5.86	46.37	100	150	Peak
2390	43.17	51.54	54	-10.83	32.14	5.86	46.37	100	150	Average
2440	94.13	102.31	-	-	32.26	5.93	46.37	100	150	Peak
2440	92.52	100.7	-	-	32.26	5.93	46.37	100	150	Average
2483.5	51.42	59.44	74	-22.58	32.36	5.99	46.37	100	150	Peak
2483.5	43.71	51.73	54	-10.29	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.75	58.51	74	-24.25	31.75	5.86	46.37	100	220	Peak
2390	43.32	52.08	54	-10.68	31.75	5.86	46.37	100	220	Average
2480	100.38	108.73	-	-	32.04	5.98	46.37	100	220	Peak
2480	99.31	107.66	-	-	32.04	5.98	46.37	100	220	Average
2483.5	52.64	60.97	74	-21.36	32.05	5.99	46.37	100	220	Peak
2483.5	44.01	52.34	54	-9.99	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.31	59.68	74	-22.69	32.14	5.86	46.37	100	150	Peak
2390	43.03	51.4	54	-10.97	32.14	5.86	46.37	100	150	Average
2480	97.13	105.17	-	-	32.35	5.98	46.37	100	150	Peak
2480	95.41	103.45	-	-	32.35	5.98	46.37	100	150	Average
2483.5	52.15	60.17	74	-21.85	32.36	5.99	46.37	100	150	Peak
2483.5	44.36	52.38	54	-9.64	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

BT-LE _S8

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.69	58.45	74	-24.31	31.75	5.86	46.37	100	220	Peak
2390	42.59	51.35	54	-11.41	31.75	5.86	46.37	100	220	Average
2402	96.65	105.35	-	-	31.79	5.88	46.37	100	220	Peak
2402	95.72	104.42	-	-	31.79	5.88	46.37	100	220	Average
2483.5	50.49	58.82	74	-23.51	32.05	5.99	46.37	100	220	Peak
2483.5	43.18	51.51	54	-10.82	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.76	59.13	74	-23.24	32.14	5.86	46.37	100	150	Peak
2390	43.36	51.73	54	-10.64	32.14	5.86	46.37	100	150	Average
2402	96.63	104.96	-	-	32.16	5.88	46.37	100	150	Peak
2402	94.24	102.57	-	-	32.16	5.88	46.37	100	150	Average
2483.5	49.38	57.4	74	-24.62	32.36	5.99	46.37	100	150	Peak
2483.5	43.37	51.39	54	-10.63	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.55	59.31	74	-23.45	31.75	5.86	46.37	100	220	Peak
2390	42.66	51.42	54	-11.34	31.75	5.86	46.37	100	220	Average
2440	98.52	107.05	-	-	31.91	5.93	46.37	100	220	Peak
2440	96.69	105.22	-	-	31.91	5.93	46.37	100	220	Average
2483.5	49.69	58.02	74	-24.31	32.05	5.99	46.37	100	220	Peak
2483.5	42.95	51.28	54	-11.05	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.98	58.35	74	-24.02	32.14	5.86	46.37	100	150	Peak
2390	43.13	51.5	54	-10.87	32.14	5.86	46.37	100	150	Average
2440	93.76	101.94	-	-	32.26	5.93	46.37	100	150	Peak
2440	91.67	99.85	-	-	32.26	5.93	46.37	100	150	Average
2483.5	51.57	59.59	74	-22.43	32.36	5.99	46.37	100	150	Peak
2483.5	42.85	50.87	54	-11.15	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.75	59.51	74	-23.25	31.75	5.86	46.37	100	220	Peak
2390	42.6	51.36	54	-11.4	31.75	5.86	46.37	100	220	Average
2480	99.6	107.95	-	-	32.04	5.98	46.37	100	220	Peak
2480	97.4	105.75	-	-	32.04	5.98	46.37	100	220	Average
2483.5	50.87	59.2	74	-23.13	32.05	5.99	46.37	100	220	Peak
2483.5	42.99	51.32	54	-11.01	32.05	5.99	46.37	100	220	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.44	58.81	74	-23.56	32.14	5.86	46.37	100	150	Peak
2390	44	52.37	54	-10	32.14	5.86	46.37	100	150	Average
2480	97.66	105.7	-	-	32.35	5.98	46.37	100	150	Peak
2480	96.91	104.95	-	-	32.35	5.98	46.37	100	150	Average
2483.5	51.54	59.56	74	-22.46	32.36	5.99	46.37	100	150	Peak
2483.5	43.64	51.66	54	-10.36	32.36	5.99	46.37	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

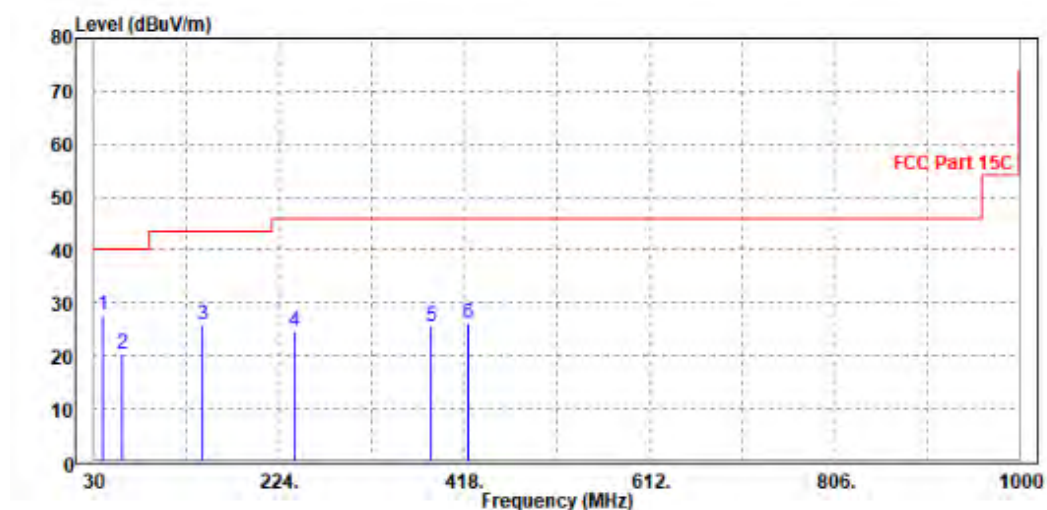
2SECEND-BT-LE_1M

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
38.73	27.75	49.78	40	-12.25	14.7	0.8	37.53	200	0	QP
60.07	20.44	49.18	40	-19.56	7.6	0.99	37.33	200	0	QP
144.46	25.85	52.37	43.5	-17.65	8.82	1.53	36.87	200	0	QP
239.52	24.6	46.52	46	-21.4	12.74	1.97	36.63	200	0	QP
384.05	25.51	43.39	46	-20.49	16.44	2.5	36.82	200	0	QP
422.85	26.09	43.01	46	-19.91	17.31	2.64	36.87	200	0	QP

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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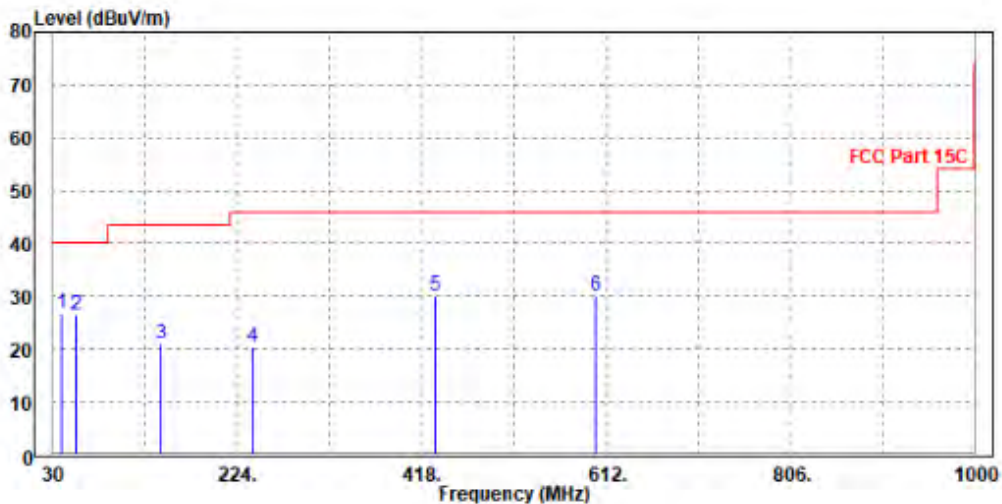
Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
38.73	26.68	49.74	40	-13.32	13.67	0.8	37.53	100	0	QP
55.22	26.38	54.33	40	-13.62	8.43	0.95	37.33	100	0	QP
144.46	20.98	47.26	43.5	-22.52	9.06	1.53	36.87	100	0	QP
239.52	20.29	41.63	46	-25.71	13.32	1.97	36.63	100	0	QP
431.58	30.2	46.61	46	-15.8	17.8	2.67	36.88	100	0	QP
600.36	30.14	43.38	46	-15.86	20.91	3.22	37.37	100	0	QP

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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Test Report No.: W7L-P21080006RF13

ABOVE 1GHz TEST DATA

Note: For higher frequency, the emission is too low to be detected.

2SECEND-BT-LE_1M

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.07	59.83	74	-22.93	31.75	5.86	46.37	100	30	Peak
2390	43.21	51.97	54	-10.79	31.75	5.86	46.37	100	30	Average
2402	102.88	111.58	–	–	31.79	5.88	46.37	100	30	Peak
2402	101.28	109.98	–	–	31.79	5.88	46.37	100	30	Average
2483.5	51.94	60.27	74	-22.06	32.05	5.99	46.37	100	30	Peak
2483.5	43.98	52.31	54	-10.02	32.05	5.99	46.37	100	30	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.83	60.2	74	-22.17	32.14	5.86	46.37	118	270	Peak
2390	43.92	52.29	54	-10.08	32.14	5.86	46.37	118	270	Average
2402	101.96	110.29	–	–	32.16	5.88	46.37	118	270	Peak
2402	99.74	108.07	–	–	32.16	5.88	46.37	118	270	Average
2483.5	51.9	59.92	74	-22.1	32.36	5.99	46.37	118	270	Peak
2483.5	44.46	52.48	54	-9.54	32.36	5.99	46.37	118	270	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51	59.76	74	-23	31.75	5.86	46.37	105	225	Peak
2390	43.57	52.33	54	-10.43	31.75	5.86	46.37	105	225	Average
2440	102.5	111.03	-	-	31.91	5.93	46.37	105	225	Peak
2440	102.28	110.81	-	-	31.91	5.93	46.37	105	225	Average
2483.5	52.67	61	74	-21.33	32.05	5.99	46.37	105	225	Peak
2483.5	44.02	52.35	54	-9.98	32.05	5.99	46.37	105	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.61	60.98	74	-21.39	32.14	5.86	46.37	100	190	Peak
2390	43.96	52.33	54	-10.04	32.14	5.86	46.37	100	190	Average
2440	97.27	105.45	-	-	32.26	5.93	46.37	100	190	Peak
2440	96.89	105.07	-	-	32.26	5.93	46.37	100	190	Average
2483.5	52.19	60.21	74	-21.81	32.36	5.99	46.37	100	190	Peak
2483.5	44.12	52.14	54	-9.88	32.36	5.99	46.37	100	190	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.59	60.35	74	-22.41	31.75	5.86	46.37	105	225	Peak
2390	43.52	52.28	54	-10.48	31.75	5.86	46.37	105	225	Average
2480	104.14	112.49	–	–	32.04	5.98	46.37	105	225	Peak
2480	102.2	110.55	–	–	32.04	5.98	46.37	105	225	Average
2483.5	54.39	62.72	74	-19.61	32.05	5.99	46.37	105	225	Peak
2483.5	45.94	54.27	54	-8.06	32.05	5.99	46.37	105	225	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.44	59.81	74	-22.56	32.14	5.86	46.37	160	270	Peak
2390	43.66	52.03	54	-10.34	32.14	5.86	46.37	160	270	Average
2480	103.32	111.36	–	–	32.35	5.98	46.37	160	270	Peak
2480	100.52	108.56	–	–	32.35	5.98	46.37	160	270	Average
2483.5	52.36	60.38	74	-21.64	32.36	5.99	46.37	160	270	Peak
2483.5	44.4	52.42	54	-9.6	32.36	5.99	46.37	160	270	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE_2M

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.16	59.92	74	-22.84	31.75	5.86	46.37	125	70	Peak
2390	43.49	52.25	54	-10.51	31.75	5.86	46.37	125	70	Average
2402	103.5	112.2	-	-	31.79	5.88	46.37	125	70	Peak
2402	100.14	108.84	-	-	31.79	5.88	46.37	125	70	Average
2483.5	51.25	59.58	74	-22.75	32.05	5.99	46.37	125	70	Peak
2483.5	43.84	52.17	54	-10.16	32.05	5.99	46.37	125	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.88	60.25	74	-22.12	32.14	5.86	46.37	118	270	Peak
2390	43.9	52.27	54	-10.1	32.14	5.86	46.37	118	270	Average
2402	101.79	110.12	-	-	32.16	5.88	46.37	118	270	Peak
2402	98.06	106.39	-	-	32.16	5.88	46.37	118	270	Average
2483.5	51.92	59.94	74	-22.08	32.36	5.99	46.37	118	270	Peak
2483.5	44.07	52.09	54	-9.93	32.36	5.99	46.37	118	270	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.13	58.89	74	-23.87	31.75	5.86	46.37	125	150	Peak
2390	43.68	52.44	54	-10.32	31.75	5.86	46.37	125	150	Average
2440	97.67	106.2	-	-	31.91	5.93	46.37	125	150	Peak
2440	93.82	102.35	-	-	31.91	5.93	46.37	125	150	Average
2483.5	50.9	59.23	74	-23.1	32.05	5.99	46.37	125	150	Peak
2483.5	43.83	52.16	54	-10.17	32.05	5.99	46.37	125	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.5	60.87	74	-21.5	32.14	5.86	46.37	100	190	Peak
2390	43.98	52.35	54	-10.02	32.14	5.86	46.37	100	190	Average
2440	97.16	105.34	-	-	32.26	5.93	46.37	100	190	Peak
2440	93.4	101.58	-	-	32.26	5.93	46.37	100	190	Average
2483.5	51.63	59.65	74	-22.37	32.36	5.99	46.37	100	190	Peak
2483.5	44.09	52.11	54	-9.91	32.36	5.99	46.37	100	190	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.11	59.87	74	-22.89	31.75	5.86	46.37	125	150	Peak
2390	43.03	51.79	54	-10.97	31.75	5.86	46.37	125	150	Average
2480	100.69	109.04	-	-	32.04	5.98	46.37	125	150	Peak
2480	96.52	104.87	-	-	32.04	5.98	46.37	125	150	Average
2483.5	52.21	60.54	74	-21.79	32.05	5.99	46.37	125	150	Peak
2483.5	44.69	53.02	54	-9.31	32.05	5.99	46.37	125	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.67	60.04	74	-22.33	32.14	5.86	46.37	100	190	Peak
2390	43.45	51.82	54	-10.55	32.14	5.86	46.37	100	190	Average
2480	100.8	108.84	-	-	32.35	5.98	46.37	100	190	Peak
2480	95.72	103.76	-	-	32.35	5.98	46.37	100	190	Average
2483.5	52.33	60.35	74	-21.67	32.36	5.99	46.37	100	190	Peak
2483.5	44.93	52.95	54	-9.07	32.36	5.99	46.37	100	190	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE_S2

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.53	61.29	74	-21.47	31.75	5.86	46.37	125	70	Peak
2390	43.59	52.35	54	-10.41	31.75	5.86	46.37	125	70	Average
2402	94.99	103.69	–	–	31.79	5.88	46.37	125	70	Peak
2402	89.59	98.29	–	–	31.79	5.88	46.37	125	70	Average
2483.5	52.25	60.58	74	-21.75	32.05	5.99	46.37	125	70	Peak
2483.5	43.51	51.84	54	-10.49	32.05	5.99	46.37	125	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.2	60.57	74	-21.8	32.14	5.86	46.37	100	105	Peak
2390	43.99	52.36	54	-10.01	32.14	5.86	46.37	100	105	Average
2402	97.29	105.62	–	–	32.16	5.88	46.37	100	105	Peak
2402	91.94	100.27	–	–	32.16	5.88	46.37	100	105	Average
2483.5	51.65	59.67	74	-22.35	32.36	5.99	46.37	100	105	Peak
2483.5	43.85	51.87	54	-10.15	32.36	5.99	46.37	100	105	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.63	60.39	74	-22.37	31.75	5.86	46.37	105	230	Peak
2390	43.5	52.26	54	-10.5	31.75	5.86	46.37	105	230	Average
2440	100.42	108.95	-	-	31.91	5.93	46.37	105	230	Peak
2440	94.6	103.13	-	-	31.91	5.93	46.37	105	230	Average
2483.5	51.81	60.14	74	-22.19	32.05	5.99	46.37	105	230	Peak
2483.5	44.09	52.42	54	-9.91	32.05	5.99	46.37	105	230	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.24	60.61	74	-21.76	32.14	5.86	46.37	100	160	Peak
2390	43.59	51.96	54	-10.41	32.14	5.86	46.37	100	160	Average
2440	96.41	104.59	-	-	32.26	5.93	46.37	100	160	Peak
2440	89.4	97.58	-	-	32.26	5.93	46.37	100	160	Average
2483.5	51.67	59.69	74	-22.33	32.36	5.99	46.37	100	160	Peak
2483.5	44.36	52.38	54	-9.64	32.36	5.99	46.37	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.78	60.54	74	-22.22	31.75	5.86	46.37	125	35	Peak
2390	43.12	51.88	54	-10.88	31.75	5.86	46.37	125	35	Average
2480	99.32	107.67	–	–	32.04	5.98	46.37	125	35	Peak
2480	96.17	104.52	–	–	32.04	5.98	46.37	125	35	Average
2483.5	51.88	60.21	74	-22.12	32.05	5.99	46.37	125	35	Peak
2483.5	45.35	53.68	54	-8.65	32.05	5.99	46.37	125	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.87	61.24	74	-21.13	32.14	5.86	46.37	100	230	Peak
2390	43.68	52.05	54	-10.32	32.14	5.86	46.37	100	230	Average
2480	96.92	104.96	–	–	32.35	5.98	46.37	100	230	Peak
2480	88.61	96.65	–	–	32.35	5.98	46.37	100	230	Average
2483.5	52.55	60.57	74	-21.45	32.36	5.99	46.37	100	230	Peak
2483.5	44.15	52.17	54	-9.85	32.36	5.99	46.37	100	230	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE _S8

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.08	60.84	74	-21.92	31.75	5.86	46.37	130	185	Peak
2390	43.63	52.39	54	-10.37	31.75	5.86	46.37	130	185	Average
2402	94.96	103.66	–	–	31.79	5.88	46.37	130	185	Peak
2402	87.98	96.68	–	–	31.79	5.88	46.37	130	185	Average
2483.5	51.04	59.37	74	-22.96	32.05	5.99	46.37	130	185	Peak
2483.5	43.24	51.57	54	-10.76	32.05	5.99	46.37	130	185	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.84	60.21	74	-22.16	32.14	5.86	46.37	100	75	Peak
2390	43.78	52.15	54	-10.22	32.14	5.86	46.37	100	75	Average
2402	97.37	105.7	–	–	32.16	5.88	46.37	100	75	Peak
2402	89.87	98.2	–	–	32.16	5.88	46.37	100	75	Average
2483.5	52	60.02	74	-22	32.36	5.99	46.37	100	75	Peak
2483.5	44.46	52.48	54	-9.54	32.36	5.99	46.37	100	75	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.94	59.7	74	-23.06	31.75	5.86	46.37	115	90	Peak
2390	43.49	52.25	54	-10.51	31.75	5.86	46.37	115	90	Average
2440	99.77	108.3	–	–	31.91	5.93	46.37	115	90	Peak
2440	94.16	102.69	–	–	31.91	5.93	46.37	115	90	Average
2483.5	52.32	60.65	74	-21.68	32.05	5.99	46.37	115	90	Peak
2483.5	43.99	52.32	54	-10.01	32.05	5.99	46.37	115	90	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.17	60.54	74	-21.83	32.14	5.86	46.37	105	280	Peak
2390	43.58	51.95	54	-10.42	32.14	5.86	46.37	105	280	Average
2440	98.06	106.24	–	–	32.26	5.93	46.37	105	280	Peak
2440	92.19	100.37	–	–	32.26	5.93	46.37	105	280	Average
2483.5	51.83	59.85	74	-22.17	32.36	5.99	46.37	105	280	Peak
2483.5	44.08	52.1	54	-9.92	32.36	5.99	46.37	105	280	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.



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Test Report No.: W7L-P21080006RF13

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.23	58.99	74	-23.77	31.75	5.86	46.37	125	240	Peak
2390	42.92	51.68	54	-11.08	31.75	5.86	46.37	125	240	Average
2480	98.92	107.27	-	-	32.04	5.98	46.37	125	240	Peak
2480	93.17	101.52	-	-	32.04	5.98	46.37	125	240	Average
2483.5	52.91	61.24	74	-21.09	32.05	5.99	46.37	125	240	Peak
2483.5	45.36	53.69	54	-8.64	32.05	5.99	46.37	125	240	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.65	59.02	74	-23.35	32.14	5.86	46.37	100	245	Peak
2390	43.02	51.39	54	-10.98	32.14	5.86	46.37	100	245	Average
2480	96.33	104.37	-	-	32.35	5.98	46.37	100	245	Peak
2480	88.54	96.58	-	-	32.35	5.98	46.37	100	245	Average
2483.5	53.33	61.35	74	-20.67	32.36	5.99	46.37	100	245	Peak
2483.5	45.6	53.62	54	-8.4	32.36	5.99	46.37	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Apr. 07,21	Apr. 06,22
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 25,21	Feb. 24,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 25,21	Feb. 24,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 26,20	Aug. 25,21
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 26,21	Aug. 25,22

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.3 TEST PROCEDURE

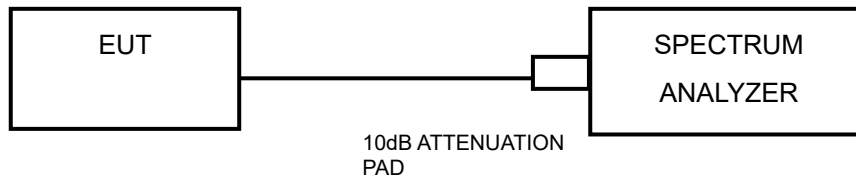
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



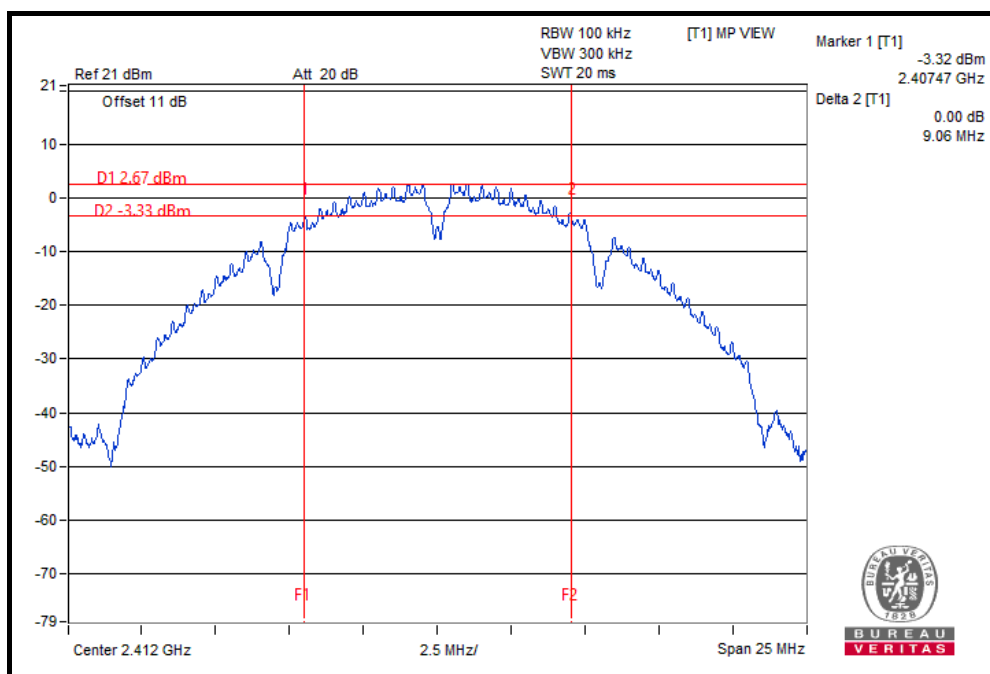
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Test Report No.: W7L-P21080006RF13

3.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	9.06	0.5	PASS
6	2437	8.60	0.5	PASS
11	2462	8.08	0.5	PASS



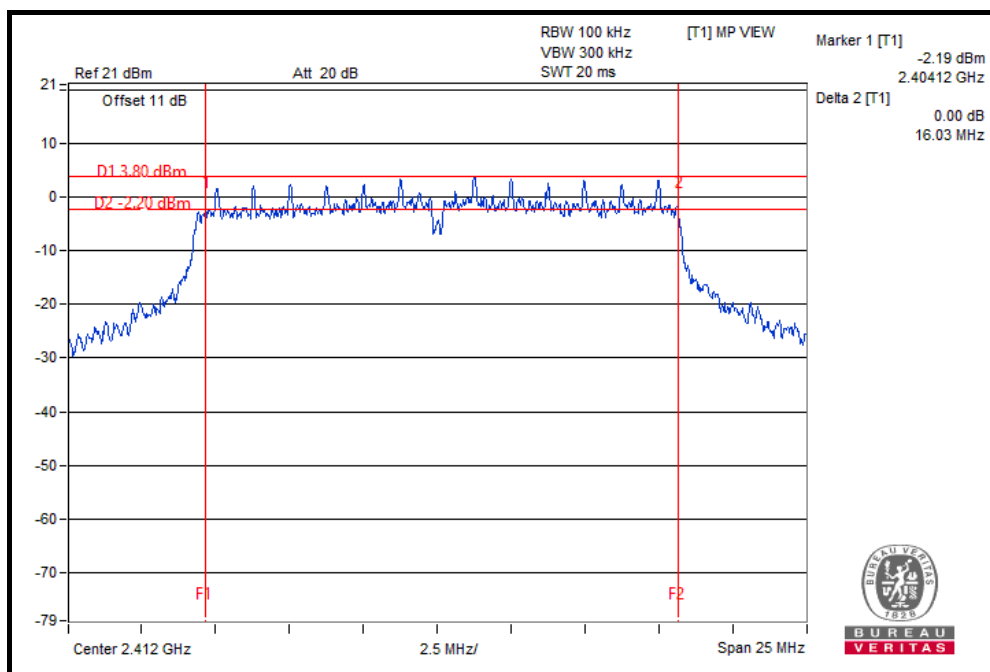


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VERITAS

Test Report No.: W7L-P21080006RF13

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.03	0.5	PASS
6	2437	15.47	0.5	PASS
11	2462	15.13	0.5	PASS



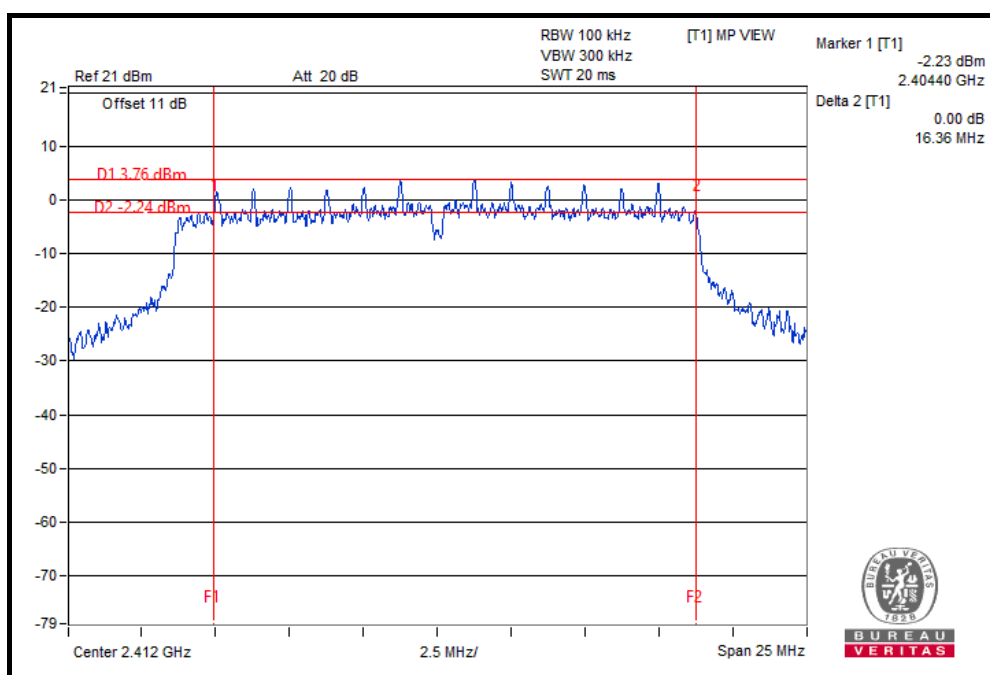


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VERITAS

Test Report No.: W7L-P21080006RF13

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.36	0.5	PASS
6	2437	15.48	0.5	PASS
11	2462	15.13	0.5	PASS



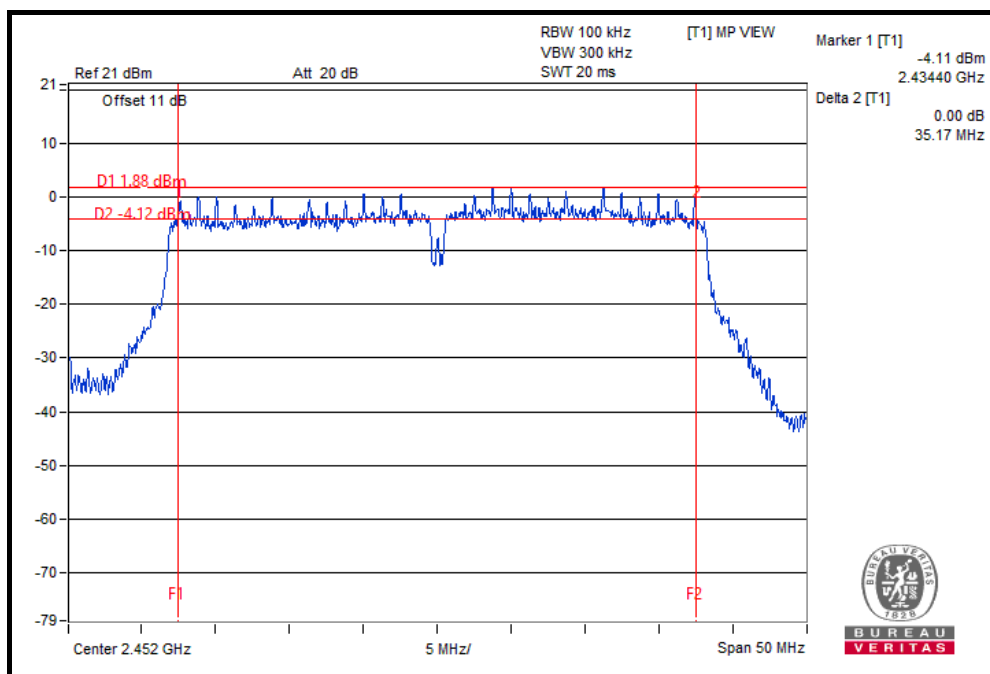


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VERITAS

Test Report No.: W7L-P21080006RF13

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	35.13	0.5	PASS
6	2437	35.14	0.5	PASS
9	2452	35.17	0.5	PASS



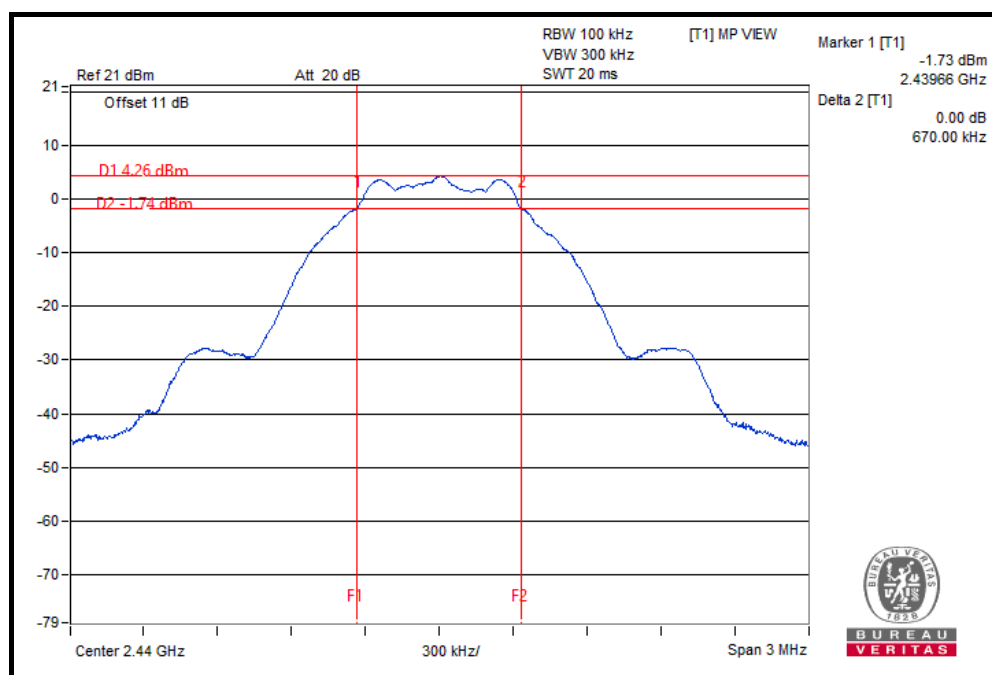


BUREAU
VERITAS

Test Report No.: W7L-P21080006RF13

BT-LE (1MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.66	0.5	PASS
19	2440	0.67	0.5	PASS
39	2480	0.66	0.5	PASS



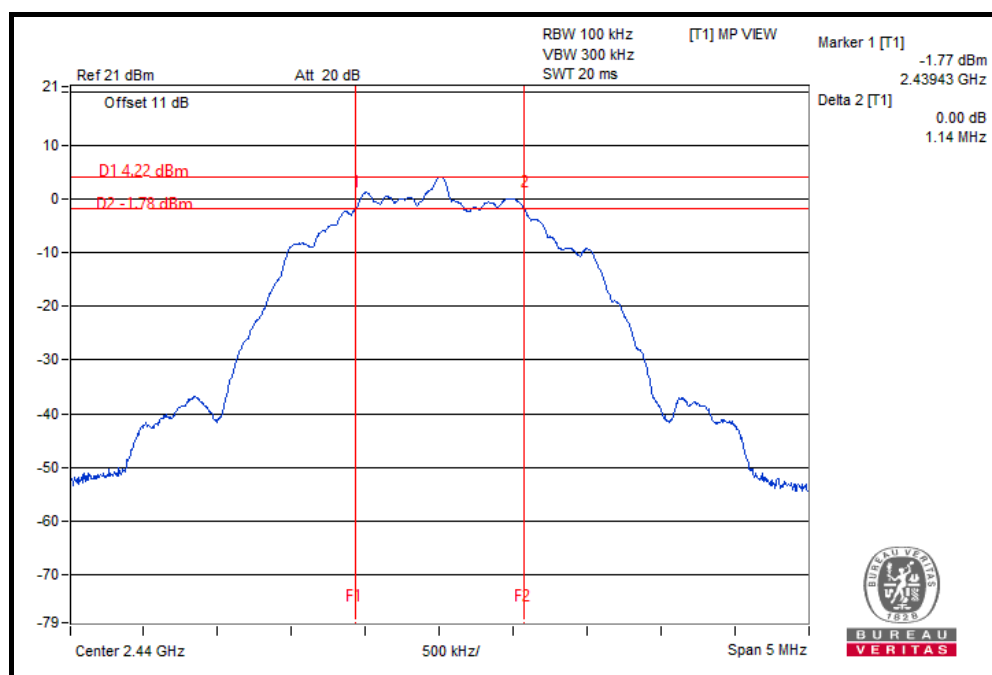


BUREAU
VERITAS

Test Report No.: W7L-P21080006RF13

BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.13	0.5	PASS
19	2440	1.14	0.5	PASS
39	2480	1.13	0.5	PASS



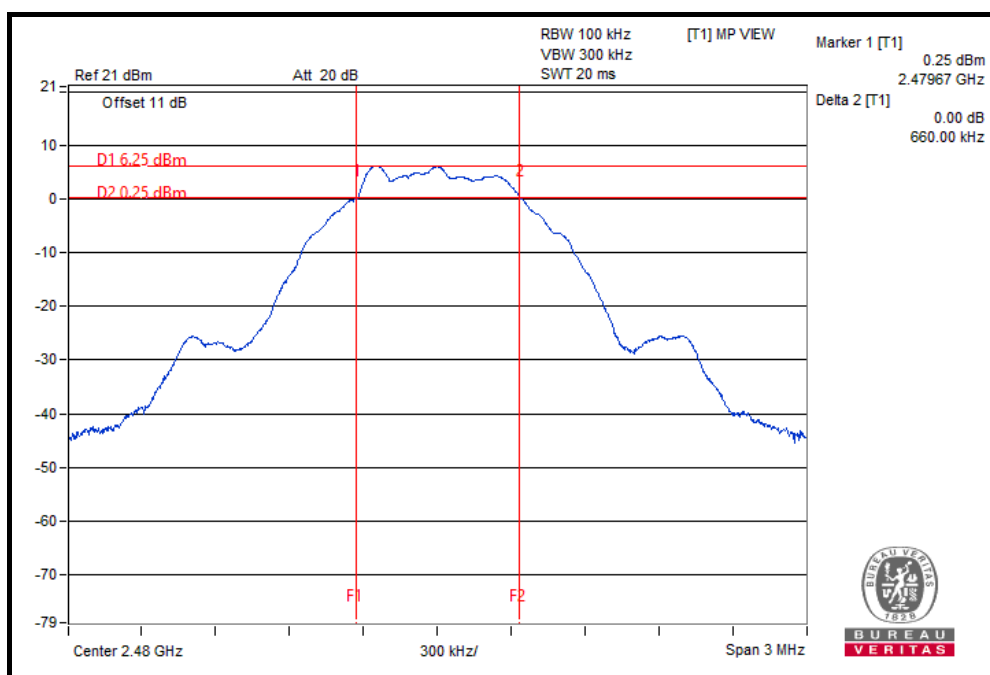


BUREAU
VERITAS

Test Report No.: W7L-P21080006RF13

BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.66	0.5	PASS
19	2440	0.66	0.5	PASS
39	2480	0.66	0.5	PASS



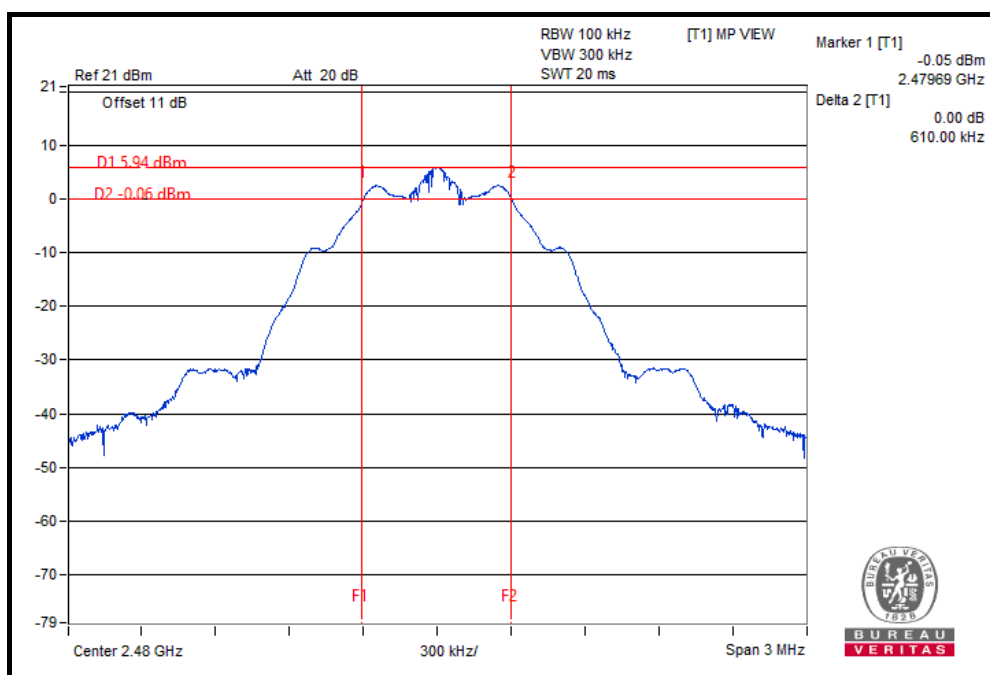


BUREAU
VERITAS

Test Report No.: W7L-P21080006RF13

BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.61	0.5	PASS
19	2440	0.61	0.5	PASS
39	2480	0.61	0.5	PASS



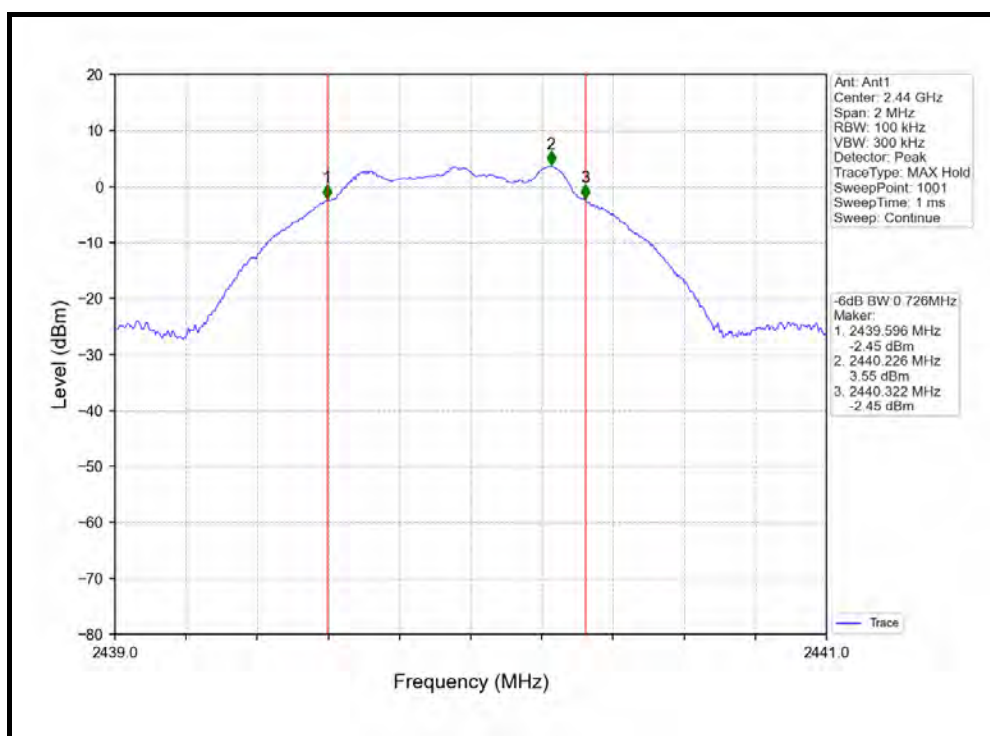


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VERITAS

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE (1MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.71	0.5	PASS
19	2440	0.73	0.5	PASS
39	2480	0.71	0.5	PASS



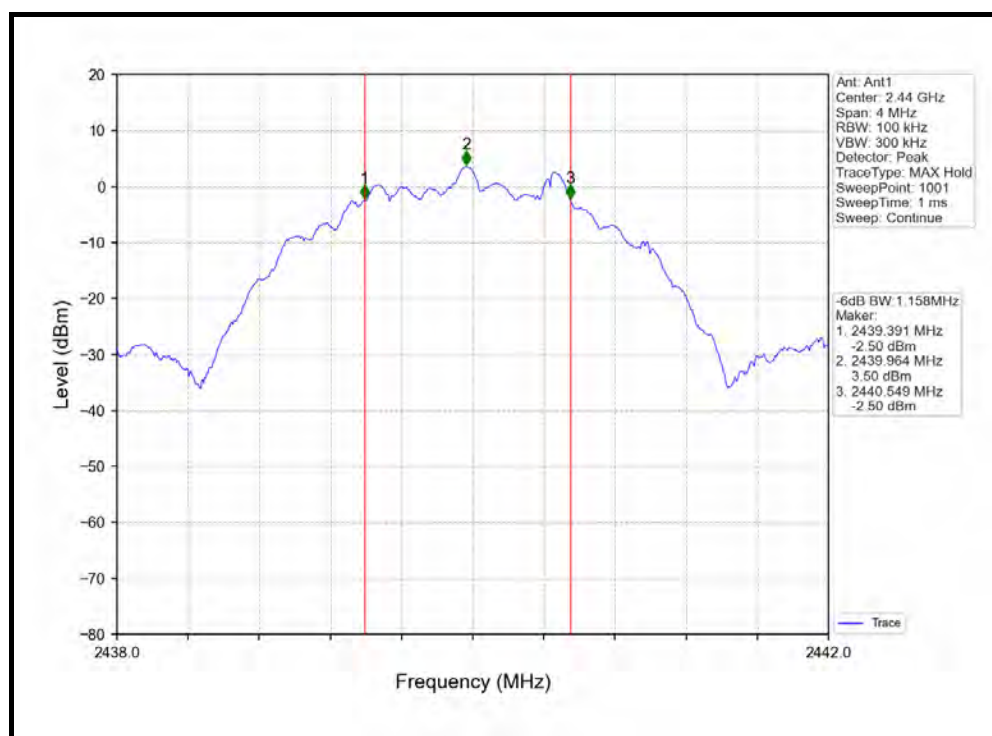


BUREAU
VERITAS

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.15	0.5	PASS
19	2440	1.16	0.5	PASS
39	2480	1.15	0.5	PASS



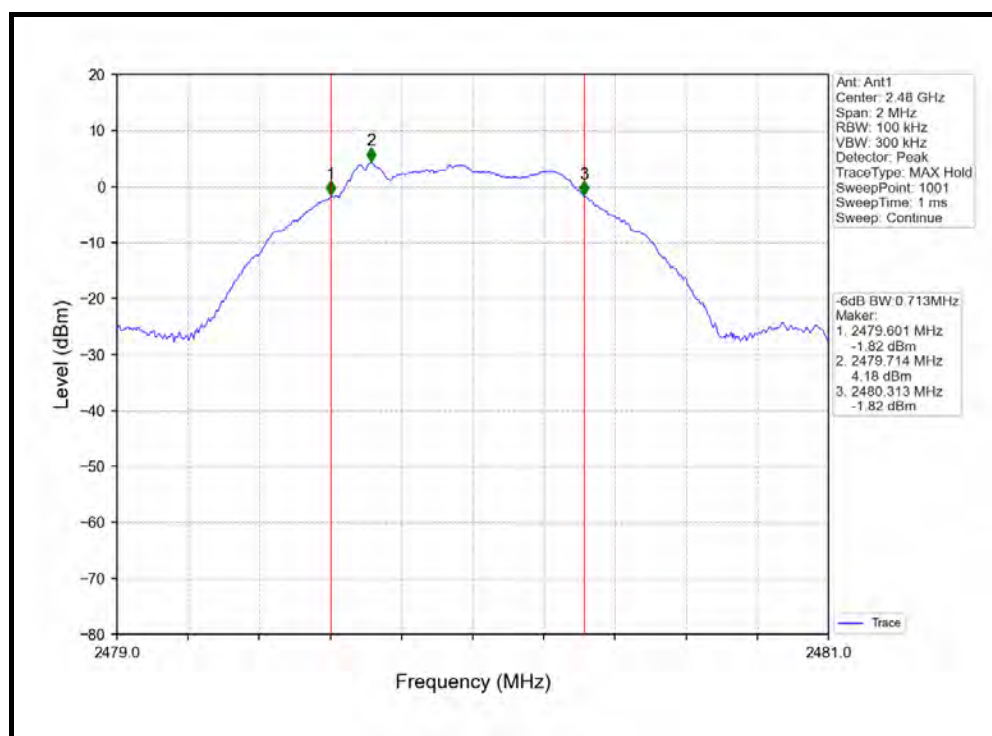


BUREAU
VERITAS

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.71	0.5	PASS
19	2440	0.71	0.5	PASS
39	2480	0.71	0.5	PASS



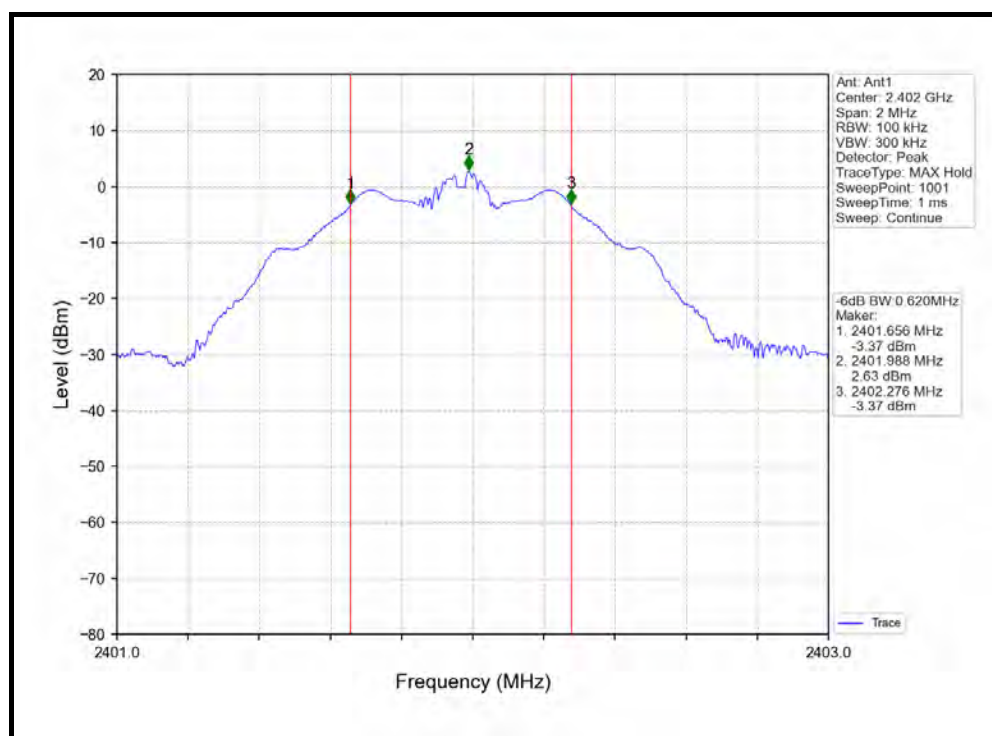


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VERITAS

Test Report No.: W7L-P21080006RF13

2SECEND-BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.62	0.5	PASS
19	2440	0.62	0.5	PASS
39	2480	0.61	0.5	PASS



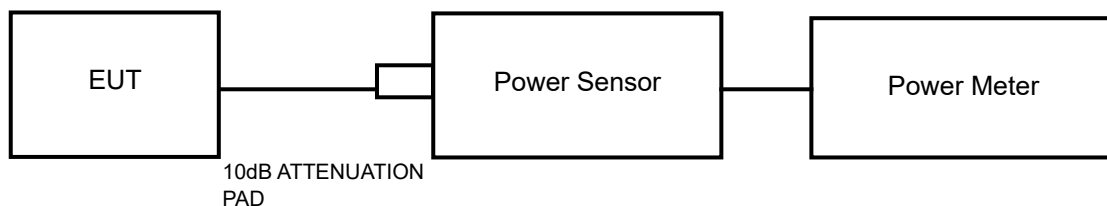


3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	15.18	32.96	1	PASS
6	2437	16.73	47.10	1	PASS
11	2462	17.75	59.57	1	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	19.00	79.43	1	PASS
6	2437	19.88	97.27	1	PASS
11	2462	19.40	87.10	1	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	19.10	81.28	1	PASS
6	2437	19.82	95.94	1	PASS
11	2462	19.38	86.70	1	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
3	2422	20.79	119.95	1	PASS
6	2437	22.36	172.19	1	PASS
9	2452	20.65	116.14	1	PASS



BT-LE (1MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.68	2.94	1	PASS
19	2440	4.77	3.00	1	PASS
39	2480	6.60	4.57	1	PASS

BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.99	3.16	1	PASS
19	2440	5.18	3.30	1	PASS
39	2480	6.90	4.90	1	PASS

BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.75	2.99	1	PASS
19	2440	4.90	3.09	1	PASS
39	2480	6.68	4.66	1	PASS

BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.75	2.99	1	PASS
19	2440	4.89	3.08	1	PASS
39	2480	6.65	4.62	1	PASS