



**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF02

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
2390.000	51.18	59.22	74.00	-22.82	31.75	6.18	45.97	175	35	Peak
2390.000	42.80	50.84	54.00	-11.20	31.75	6.18	45.97	175	35	Average
2437.000	101.55	109.36	/	/	31.90	6.24	45.95	175	35	Peak
2437.000	94.74	102.55	/	/	31.90	6.24	45.95	175	35	Average
2483.500	52.34	59.91	74.00	-21.66	32.05	6.31	45.93	175	35	Peak
2483.500	45.41	52.98	54.00	-8.59	32.05	6.31	45.93	175	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
2390.000	52.60	60.25	74.00	-21.40	32.14	6.18	45.97	100	280	Peak
2390.000	44.67	52.32	54.00	-9.33	32.14	6.18	45.97	100	280	Average
2437.000	99.10	106.56	/	/	32.25	6.24	45.95	100	280	Peak
2437.000	91.71	99.17	/	/	32.25	6.24	45.95	100	280	Average
2483.500	51.38	58.64	74.00	-22.62	32.36	6.31	45.93	100	280	Peak
2483.500	44.48	51.74	54.00	-9.52	32.36	6.31	45.93	100	280	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-P22110036RF02

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
2390.000	50.71	58.75	74.00	-23.29	31.75	6.18	45.97	175	35	Peak
2390.000	43.82	51.86	54.00	-10.18	31.75	6.18	45.97	175	35	Average
2452.000	102.06	109.80	/	/	31.95	6.26	45.95	175	35	Peak
2452.000	95.03	102.77	/	/	31.95	6.26	45.95	175	35	Average
2483.500	54.61	62.18	74.00	-19.39	32.05	6.31	45.93	175	35	Peak
2483.500	47.13	54.70	54.00	-6.87	32.05	6.31	45.93	175	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
2390.000	51.68	59.33	74.00	-22.32	32.14	6.18	45.97	100	280	Peak
2390.000	44.18	51.83	54.00	-9.82	32.14	6.18	45.97	100	280	Average
2452.000	97.40	104.81	/	/	32.28	6.26	45.95	100	280	Peak
2452.000	90.97	98.38	/	/	32.28	6.26	45.95	100	280	Average
2483.500	52.67	59.93	74.00	-21.33	32.36	6.31	45.93	100	280	Peak
2483.500	44.96	52.22	54.00	-9.04	32.36	6.31	45.93	100	280	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2452MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P22110036RF02

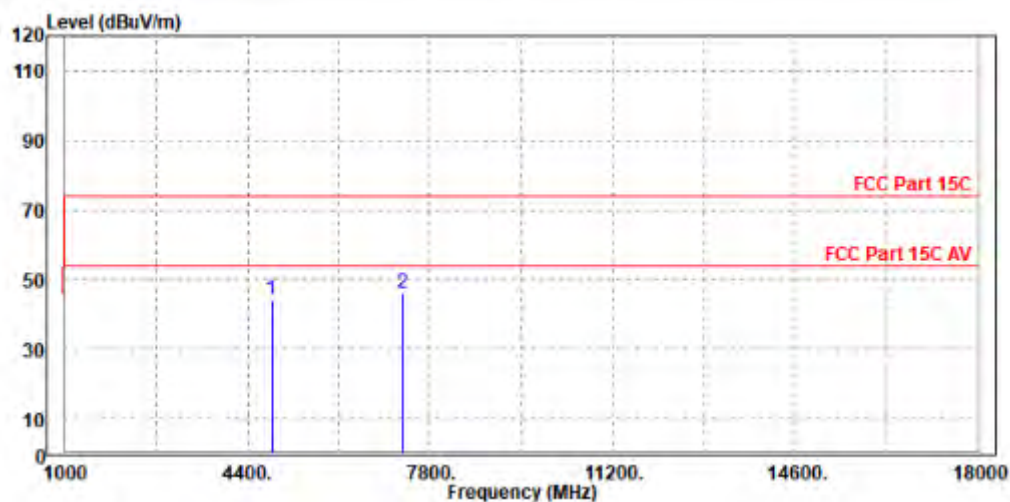
Worst case harmonic:

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

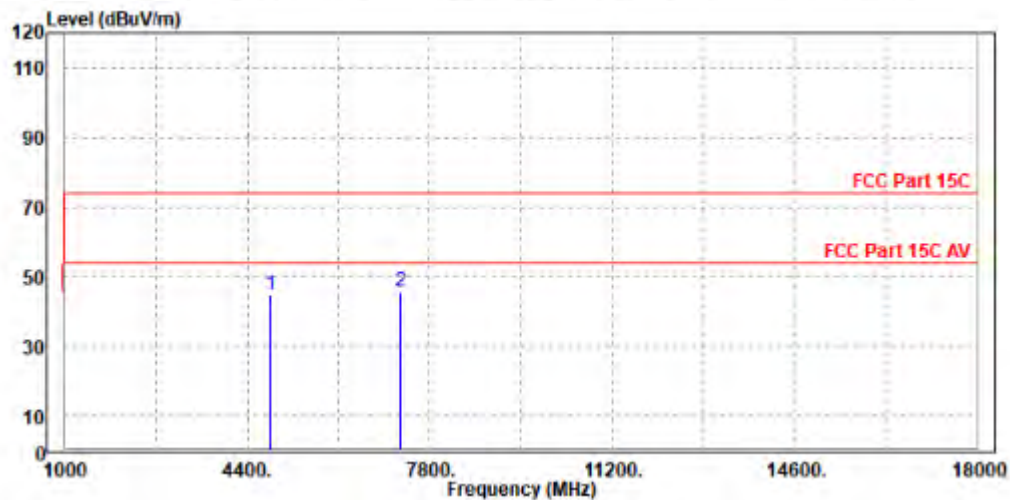
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4844.000	44.07	45.45	74.00	-29.93	-1.38	Peak	Horizontal
2 PP	7273.000	46.07	44.26	74.00	-27.93	1.81	Peak	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4842.000	44.66	45.84	74.00	-29.34	-1.18	Peak	Vertical
2 PP	7266.000	45.65	43.76	74.00	-28.35	1.89	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2422MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF02

2.4G WIFI-RU

802.11ax (20MHz) (RU242):

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
2390.000	51.04	59.08	74.00	-22.96	31.75	6.18	45.97	100	235	Peak
2390.000	43.73	51.77	54.00	-10.27	31.75	6.18	45.97	100	235	Average
2412.000	97.87	105.80	/	/	31.82	6.21	45.96	100	235	Peak
2412.000	87.53	95.46	/	/	31.82	6.21	45.96	100	235	Average
2483.500	51.48	59.05	74.00	-22.52	32.05	6.31	45.93	100	235	Peak
2483.500	43.76	51.33	54.00	-10.24	32.05	6.31	45.93	100	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
2390.000	52.42	60.07	74.00	-21.58	32.14	6.18	45.97	125	305	Peak
2390.000	43.90	51.55	54.00	-10.10	32.14	6.18	45.97	125	305	Average
2412.000	102.01	109.57	/	/	32.19	6.21	45.96	125	305	Peak
2412.000	91.59	99.15	/	/	32.19	6.21	45.96	125	305	Average
2483.500	51.60	58.86	74.00	-22.40	32.36	6.31	45.93	125	305	Peak
2483.500	44.39	51.65	54.00	-9.61	32.36	6.31	45.93	125	305	Average

REMARKS:

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



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Test Report No.: W7L-P22110036RF02

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
2390.000	52.00	60.04	74.00	-22.00	31.75	6.18	45.97	100	210	Peak
2390.000	43.48	51.52	54.00	-10.52	31.75	6.18	45.97	100	210	Average
2437.000	97.41	105.22	/	/	31.90	6.24	45.95	100	210	Peak
2437.000	86.53	94.34	/	/	31.90	6.24	45.95	100	210	Average
2483.500	52.04	59.61	74.00	-21.96	32.05	6.31	45.93	100	210	Peak
2483.500	43.70	51.27	54.00	-10.30	32.05	6.31	45.93	100	210	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
2390.000	51.02	58.67	74.00	-22.98	32.14	6.18	45.97	100	305	Peak
2390.000	44.21	51.86	54.00	-9.79	32.14	6.18	45.97	100	305	Average
2437.000	99.64	107.10	/	/	32.25	6.24	45.95	100	305	Peak
2437.000	89.55	97.01	/	/	32.25	6.24	45.95	100	305	Average
2483.500	52.17	59.43	74.00	-21.83	32.36	6.31	45.93	100	305	Peak
2483.500	44.67	51.93	54.00	-9.33	32.36	6.31	45.93	100	305	Average

REMARKS:

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



**BUREAU
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Test Report No.: W7L-P22110036RF02

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
2390.000	51.12	59.16	74.00	-22.88	31.75	6.18	45.97	100	210	Peak
2390.000	44.00	52.04	54.00	-10.00	31.75	6.18	45.97	100	210	Average
2462.000	96.35	104.03	/	/	31.98	6.28	45.94	100	210	Peak
2462.000	86.41	94.09	/	/	31.98	6.28	45.94	100	210	Average
2483.500	51.86	59.43	74.00	-22.14	32.05	6.31	45.93	100	210	Peak
2483.500	43.98	51.55	54.00	-10.02	32.05	6.31	45.93	100	210	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
2390.000	51.39	59.04	74.00	-22.61	32.14	6.18	45.97	128	305	Peak
2390.000	44.08	51.73	54.00	-9.92	32.14	6.18	45.97	128	305	Average
2462.000	100.34	107.69	/	/	32.31	6.28	45.94	128	305	Peak
2462.000	89.87	97.22	/	/	32.31	6.28	45.94	128	305	Average
2483.500	52.39	59.65	74.00	-21.61	32.36	6.31	45.93	128	305	Peak
2483.500	44.30	51.56	54.00	-9.70	32.36	6.31	45.93	128	305	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF02

802.11ax (40MHz) (RU484):

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
2390.000	51.07	59.11	74.00	-22.93	31.75	6.18	45.97	100	210	Peak
2390.000	43.72	51.76	54.00	-10.28	31.75	6.18	45.97	100	210	Average
2422.000	93.47	101.36	/	/	31.85	6.22	45.96	100	210	Peak
2422.000	83.38	91.27	/	/	31.85	6.22	45.96	100	210	Average
2483.500	50.97	58.54	74.00	-23.03	32.05	6.31	45.93	100	210	Peak
2483.500	43.84	51.41	54.00	-10.16	32.05	6.31	45.93	100	210	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
2390.000	50.86	58.51	74.00	-23.14	32.14	6.18	45.97	125	305	Peak
2390.000	45.00	52.65	54.00	-9.00	32.14	6.18	45.97	125	305	Average
2422.000	98.26	105.79	/	/	32.21	6.22	45.96	125	305	Peak
2422.000	88.72	96.25	/	/	32.21	6.22	45.96	125	305	Average
2483.500	52.34	59.60	74.00	-21.66	32.36	6.31	45.93	125	305	Peak
2483.500	44.71	51.97	54.00	-9.29	32.36	6.31	45.93	125	305	Average

REMARKS:

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



**BUREAU
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Test Report No.: W7L-P22110036RF02

802.11ax (40MHz) (RU484):

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
2390.000	52.16	60.20	74.00	-21.84	31.75	6.18	45.97	100	210	Peak
2390.000	43.69	51.73	54.00	-10.31	31.75	6.18	45.97	100	210	Average
2437.000	93.32	101.13	/	/	31.90	6.24	45.95	100	210	Peak
2437.000	83.57	91.38	/	/	31.90	6.24	45.95	100	210	Average
2483.500	51.26	58.83	74.00	-22.74	32.05	6.31	45.93	100	210	Peak
2483.500	44.48	52.05	54.00	-9.52	32.05	6.31	45.93	100	210	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
2390.000	51.18	58.83	74.00	-22.82	32.14	6.18	45.97	105	305	Peak
2390.000	43.80	51.45	54.00	-10.20	32.14	6.18	45.97	105	305	Average
2437.000	97.02	104.48	/	/	32.25	6.24	45.95	105	305	Peak
2437.000	87.73	95.19	/	/	32.25	6.24	45.95	105	305	Average
2483.500	51.54	58.80	74.00	-22.46	32.36	6.31	45.93	105	305	Peak
2483.500	44.60	51.86	54.00	-9.40	32.36	6.31	45.93	105	305	Average

REMARKS:

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



**BUREAU
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Test Report No.: W7L-P22110036RF02

802.11ax (40MHz) (RU484):

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
2390.000	50.82	58.86	74.00	-23.18	31.75	6.18	45.97	100	210	Peak
2390.000	43.80	51.84	54.00	-10.20	31.75	6.18	45.97	100	210	Average
2452.000	94.49	102.23	/	/	31.95	6.26	45.95	100	210	Peak
2452.000	84.10	91.84	/	/	31.95	6.26	45.95	100	210	Average
2483.500	51.44	59.01	74.00	-22.56	32.05	6.31	45.93	100	210	Peak
2483.500	44.10	51.67	54.00	-9.90	32.05	6.31	45.93	100	210	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
2390.000	51.37	59.02	74.00	-22.63	32.14	6.18	45.97	100	305	Peak
2390.000	44.37	52.02	54.00	-9.63	32.14	6.18	45.97	100	305	Average
2452.000	96.76	104.17	/	/	32.28	6.26	45.95	100	305	Peak
2452.000	87.13	94.54	/	/	32.28	6.26	45.95	100	305	Average
2483.500	52.52	59.78	74.00	-21.48	32.36	6.31	45.93	100	305	Peak
2483.500	44.82	52.08	54.00	-9.18	32.36	6.31	45.93	100	305	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2452MHz: Fundamental frequency.



BUREAU
VERITAS

Test Report No.: W7L-P22110036RF02

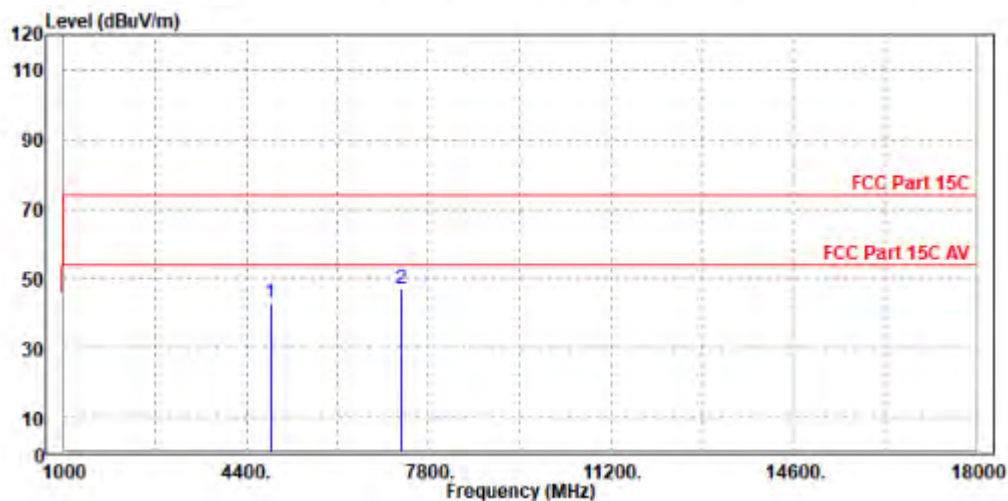
Worst case harmonic:

802.11ax (40MHz) (RU484):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	4844.000	43.04	44.42	74.00	-30.96	-1.38	Peak	Horizontal
2 PP	7273.000	46.98	45.17	74.00	-27.02	1.81	Peak	Horizontal



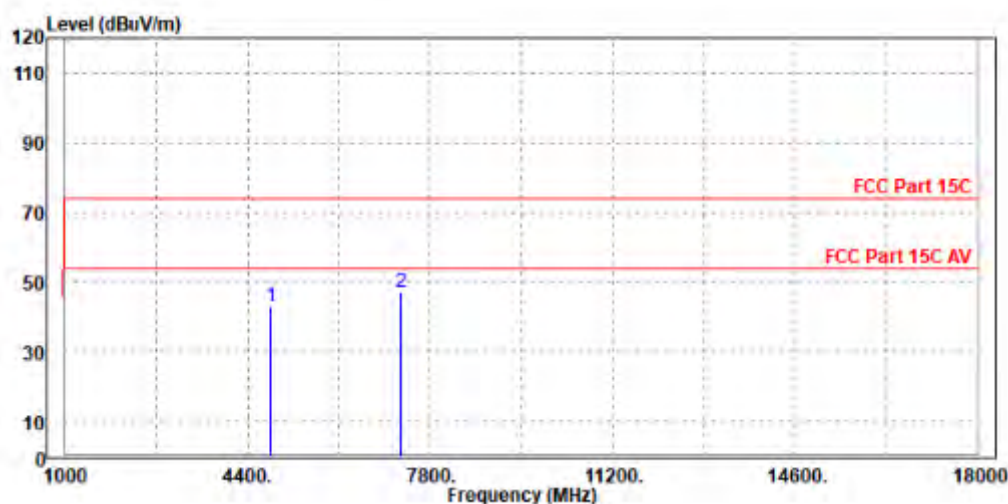


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Test Report No.: W7L-P22110036RF02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4842.000	42.68	43.86	74.00	-31.32	-1.18	Peak	Vertical
2 PP	7266.000	47.12	45.23	74.00	-26.88	1.89	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2422MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF02

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

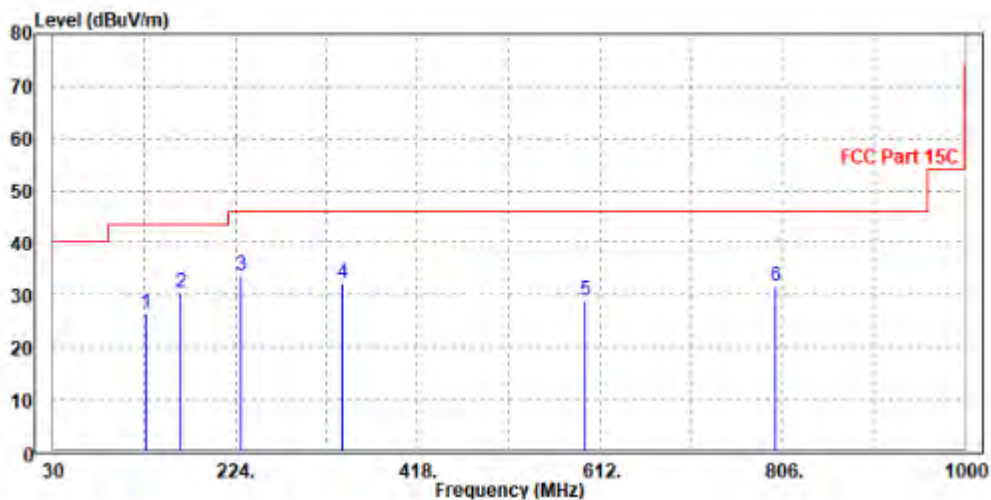
BT-LE _S8

CHANNEL	TX Channel 39	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
127.970	26.42	53.74	43.50	-17.08	8.76	0.60	36.68	100	360	QP
165.800	30.44	55.18	43.50	-13.06	11.05	0.68	36.47	100	360	QP
229.820	33.67	56.55	46.00	-12.33	12.61	0.79	36.28	100	360	QP
338.460	32.12	52.62	46.00	-13.88	14.85	0.97	36.32	100	360	QP
596.480	28.81	44.65	46.00	-17.19	19.64	1.36	36.84	100	360	QP
799.210	31.55	44.78	46.00	-14.45	22.39	1.58	37.20	100	360	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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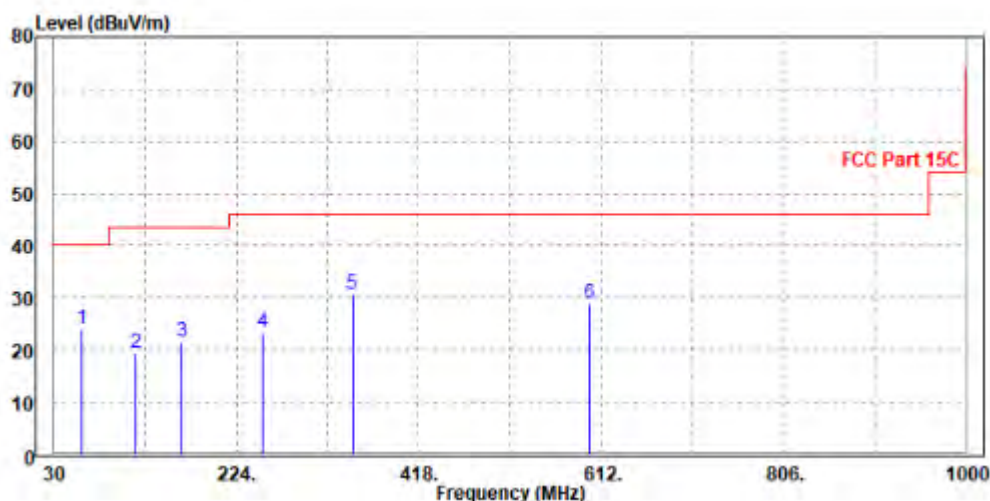
Test Report No.: W7L-P22110036RF02

CHANNEL	TX Channel 39	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
59.100	23.89	51.70	40.00	-16.11	8.70	0.44	36.95	100	0	QP
116.330	19.58	47.14	43.50	-23.92	8.61	0.57	36.74	100	0	QP
165.800	21.72	46.52	43.50	-21.78	10.99	0.68	36.47	100	0	QP
251.160	23.53	46.33	46.00	-22.47	12.63	0.84	36.27	100	0	QP
347.190	30.86	51.12	46.00	-15.14	15.09	0.99	36.34	100	0	QP
599.390	28.75	44.65	46.00	-17.25	19.59	1.36	36.85	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-P22110036RF02

ABOVE 1GHz TEST DATA

Note: 1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.

2. All other emissions were greater than 20dB below the limit was not recorded

BT-LE _1M

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

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
2390.000	51.29	59.33	74.00	-22.71	31.75	6.18	45.97	100	190	Peak
2390.000	43.80	51.84	54.00	-10.20	31.75	6.18	45.97	100	190	Average
2402.000	96.98	104.97	/	/	31.79	6.19	45.97	100	190	Peak
2402.000	96.70	104.69	/	/	31.79	6.19	45.97	100	190	Average
2483.500	51.46	59.03	74.00	-22.54	32.05	6.31	45.93	100	190	Peak
2483.500	43.53	51.10	54.00	-10.47	32.05	6.31	45.93	100	190	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
2390.000	50.87	58.52	74.00	-23.13	32.14	6.18	45.97	135	310	Peak
2390.000	44.46	52.11	54.00	-9.54	32.14	6.18	45.97	135	310	Average
2402.000	100.79	108.41	/	/	32.16	6.19	45.97	135	310	Peak
2402.000	100.51	108.13	/	/	32.16	6.19	45.97	135	310	Average
2483.500	51.48	58.74	74.00	-22.52	32.36	6.31	45.93	135	310	Peak
2483.500	44.13	51.39	54.00	-9.87	32.36	6.31	45.93	135	310	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-P22110036RF02

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
2390.000	51.13	59.17	74.00	-22.87	31.75	6.18	45.97	100	190	Peak
2390.000	44.09	52.13	54.00	-9.91	31.75	6.18	45.97	100	190	Average
2440.000	98.90	106.69	/	/	31.91	6.25	45.95	100	190	Peak
2440.000	98.36	106.15	/	/	31.91	6.25	45.95	100	190	Average
2483.500	52.99	60.56	74.00	-21.01	32.05	6.31	45.93	100	190	Peak
2483.500	43.67	51.24	54.00	-10.33	32.05	6.31	45.93	100	190	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
2390.000	51.48	59.13	74.00	-22.52	32.14	6.18	45.97	135	310	Peak
2390.000	44.19	51.84	54.00	-9.81	32.14	6.18	45.97	135	310	Average
2440.000	101.43	108.87	/	/	32.26	6.25	45.95	135	310	Peak
2440.000	101.14	108.58	/	/	32.26	6.25	45.95	135	310	Average
2483.500	53.04	60.30	74.00	-20.96	32.36	6.31	45.93	135	310	Peak
2483.500	43.96	51.22	54.00	-10.04	32.36	6.31	45.93	135	310	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-P22110036RF02

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
2390.000	51.53	59.57	74.00	-22.47	31.75	6.18	45.97	100	0	Peak
2390.000	44.05	52.09	54.00	-9.95	31.75	6.18	45.97	100	0	Average
2480.000	97.34	104.93	/	/	32.04	6.30	45.93	100	0	Peak
2480.000	96.97	104.56	/	/	32.04	6.30	45.93	100	0	Average
2483.500	51.63	59.20	74.00	-22.37	32.05	6.31	45.93	100	0	Peak
2483.500	43.90	51.47	54.00	-10.10	32.05	6.31	45.93	100	0	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
2390.000	51.80	59.45	74.00	-22.20	32.14	6.18	45.97	130	290	Peak
2390.000	44.08	51.73	54.00	-9.92	32.14	6.18	45.97	130	290	Average
2480.000	100.02	107.30	/	/	32.35	6.30	45.93	130	290	Peak
2480.000	99.65	106.93	/	/	32.35	6.30	45.93	130	290	Average
2483.500	52.06	59.32	74.00	-21.94	32.36	6.31	45.93	130	290	Peak
2483.500	44.70	51.96	54.00	-9.30	32.36	6.31	45.93	130	290	Average

REMARKS:

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

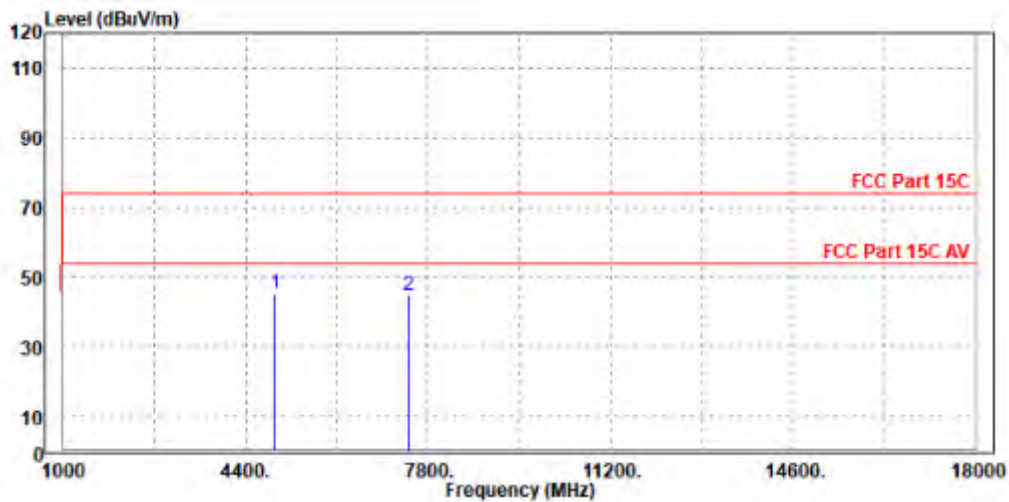


Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	PP 4960.000	45.14	46.33	74.00	-28.86	-1.19	Peak	Horizontal
2	7443.000	44.66	42.68	74.00	-29.34	1.98	Peak	Horizontal



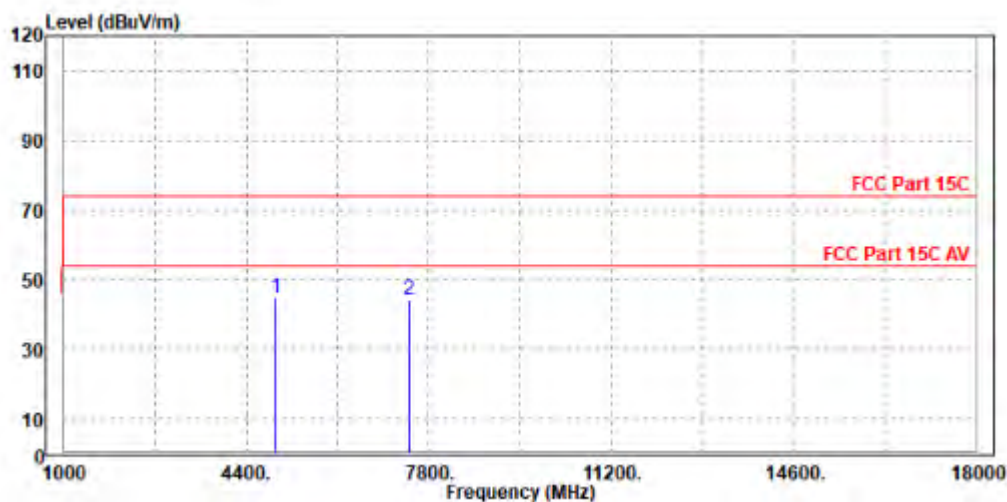


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Test Report No.: W7L-P22110036RF02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	PP 4961.000	44.77	45.76	74.00	-29.23	-0.99	Peak	Vertical
2	7440.000	44.31	42.30	74.00	-29.69	2.01	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-P22110036RF02

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
2390.000	51.53	59.57	74.00	-22.47	31.75	6.18	45.97	100	190	Peak
2390.000	44.24	52.28	54.00	-9.76	31.75	6.18	45.97	100	190	Average
2402.000	97.12	105.11	/	/	31.79	6.19	45.97	100	190	Peak
2402.000	95.20	103.19	/	/	31.79	6.19	45.97	100	190	Average
2483.500	51.74	59.31	74.00	-22.26	32.05	6.31	45.93	100	190	Peak
2483.500	44.35	51.92	54.00	-9.65	32.05	6.31	45.93	100	190	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
2390.000	52.80	60.45	74.00	-21.20	32.14	6.18	45.97	130	290	Peak
2390.000	44.59	52.24	54.00	-9.41	32.14	6.18	45.97	130	290	Average
2402.000	100.95	108.57	/	/	32.16	6.19	45.97	130	290	Peak
2402.000	98.96	106.58	/	/	32.16	6.19	45.97	130	290	Average
2483.500	52.97	60.23	74.00	-21.03	32.36	6.31	45.93	130	290	Peak
2483.500	45.09	52.35	54.00	-8.91	32.36	6.31	45.93	130	290	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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Test Report No.: W7L-P22110036RF02

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
2390.000	51.18	59.22	74.00	-22.82	31.75	6.18	45.97	100	190	Peak
2390.000	43.67	51.71	54.00	-10.33	31.75	6.18	45.97	100	190	Average
2440.000	98.38	106.17	/	/	31.91	6.25	45.95	100	190	Peak
2440.000	96.40	104.19	/	/	31.91	6.25	45.95	100	190	Average
2483.500	51.00	58.57	74.00	-23.00	32.05	6.31	45.93	100	190	Peak
2483.500	44.76	52.33	54.00	-9.24	32.05	6.31	45.93	100	190	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
2390.000	51.74	59.39	74.00	-22.26	32.14	6.18	45.97	100	310	Peak
2390.000	44.17	51.82	54.00	-9.83	32.14	6.18	45.97	100	310	Average
2440.000	102.40	109.84	/	/	32.26	6.25	45.95	100	310	Peak
2440.000	100.05	107.49	/	/	32.26	6.25	45.95	100	310	Average
2483.500	52.04	59.30	74.00	-21.96	32.36	6.31	45.93	100	310	Peak
2483.500	44.21	51.47	54.00	-9.79	32.36	6.31	45.93	100	310	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-P22110036RF02

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
2390.000	51.96	60.00	74.00	-22.04	31.75	6.18	45.97	100	0	Peak
2390.000	43.88	51.92	54.00	-10.12	31.75	6.18	45.97	100	0	Average
2480.000	97.38	104.97	/	/	32.04	6.30	45.93	100	0	Peak
2480.000	95.40	102.99	/	/	32.04	6.30	45.93	100	0	Average
2483.500	52.05	59.62	74.00	-21.95	32.05	6.31	45.93	100	0	Peak
2483.500	44.76	52.33	54.00	-9.24	32.05	6.31	45.93	100	0	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
2390.000	51.72	59.37	74.00	-22.28	32.14	6.18	45.97	130	290	Peak
2390.000	44.69	52.34	54.00	-9.31	32.14	6.18	45.97	130	290	Average
2480.000	100.09	107.37	/	/	32.35	6.30	45.93	130	290	Peak
2480.000	98.17	105.45	/	/	32.35	6.30	45.93	130	290	Average
2483.500	53.01	60.27	74.00	-20.99	32.36	6.31	45.93	130	290	Peak
2483.500	44.71	51.97	54.00	-9.29	32.36	6.31	45.93	130	290	Average

REMARKS:

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

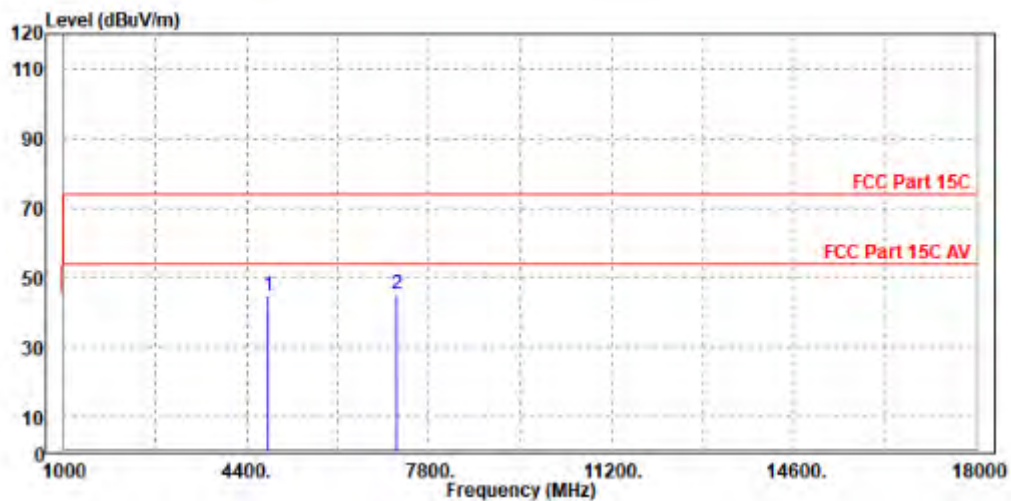


Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4808.000	44.93	46.37	74.00	-29.07	-1.44	Peak	Horizontal
2 PP	7206.000	45.31	43.57	74.00	-28.69	1.74	Peak	Horizontal



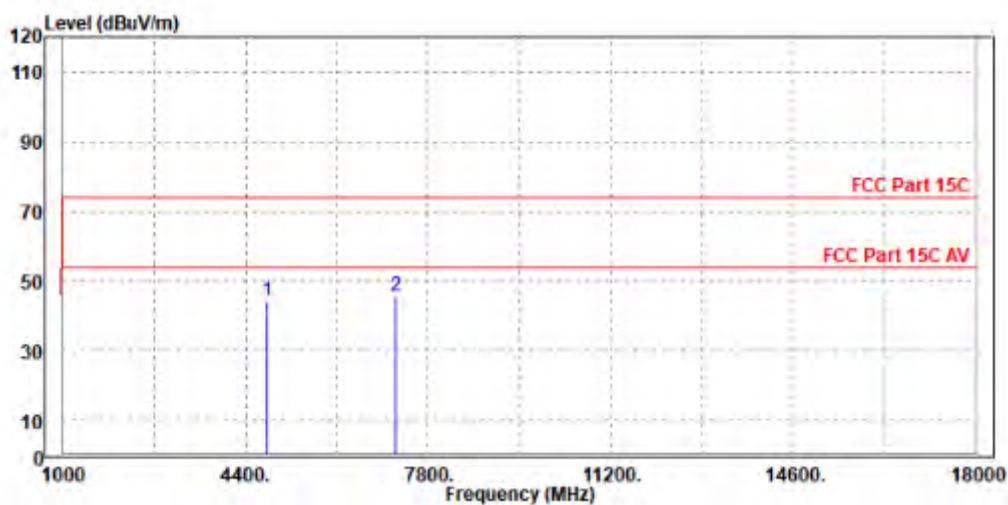


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Test Report No.: W7L-P22110036RF02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4804.000	44.10	45.34	74.00	-29.90	-1.24	Peak	Vertical
2 PP	7205.000	45.74	43.88	74.00	-28.26	1.86	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet



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Test Report No.: W7L-P22110036RF02

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
2390.000	51.00	59.04	74.00	-23.00	31.75	6.18	45.97	100	190	Peak
2390.000	43.21	51.25	54.00	-10.79	31.75	6.18	45.97	100	190	Average
2402.000	97.16	105.15	/	/	31.79	6.19	45.97	100	190	Peak
2402.000	96.88	104.87	/	/	31.79	6.19	45.97	100	190	Average
2483.500	51.75	59.32	74.00	-22.25	32.05	6.31	45.93	100	190	Peak
2483.500	44.57	52.14	54.00	-9.43	32.05	6.31	45.93	100	190	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
2390.000	51.02	58.67	74.00	-22.98	32.14	6.18	45.97	135	310	Peak
2390.000	44.11	51.76	54.00	-9.89	32.14	6.18	45.97	135	310	Average
2402.000	100.87	108.49	/	/	32.16	6.19	45.97	135	310	Peak
2402.000	100.69	108.31	/	/	32.16	6.19	45.97	135	310	Average
2483.500	51.94	59.20	74.00	-22.06	32.36	6.31	45.93	135	310	Peak
2483.500	44.42	51.68	54.00	-9.58	32.36	6.31	45.93	135	310	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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Test Report No.: W7L-P22110036RF02

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
2390.000	51.68	59.72	74.00	-22.32	31.75	6.18	45.97	100	190	Peak
2390.000	44.32	52.36	54.00	-9.68	31.75	6.18	45.97	100	190	Average
2440.000	99.10	106.89	/	/	31.91	6.25	45.95	100	190	Peak
2440.000	98.22	106.01	/	/	31.91	6.25	45.95	100	190	Average
2483.500	52.84	60.41	74.00	-21.16	32.05	6.31	45.93	100	190	Peak
2483.500	44.03	51.60	54.00	-9.97	32.05	6.31	45.93	100	190	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
2390.000	51.05	58.70	74.00	-22.95	32.14	6.18	45.97	135	310	Peak
2390.000	43.78	51.43	54.00	-10.22	32.14	6.18	45.97	135	310	Average
2440.000	102.27	109.71	/	/	32.26	6.25	45.95	135	310	Peak
2440.000	101.69	109.13	/	/	32.26	6.25	45.95	135	310	Average
2483.500	52.23	59.49	74.00	-21.77	32.36	6.31	45.93	135	310	Peak
2483.500	44.22	51.48	54.00	-9.78	32.36	6.31	45.93	135	310	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-P22110036RF02

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
2390.000	52.23	60.27	74.00	-21.77	31.75	6.18	45.97	100	0	Peak
2390.000	43.50	51.54	54.00	-10.50	31.75	6.18	45.97	100	0	Average
2480.000	97.51	105.10	/	/	32.04	6.30	45.93	100	0	Peak
2480.000	97.15	104.74	/	/	32.04	6.30	45.93	100	0	Average
2483.500	51.84	59.41	74.00	-22.16	32.05	6.31	45.93	100	0	Peak
2483.500	43.87	51.44	54.00	-10.13	32.05	6.31	45.93	100	0	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
2390.000	52.16	59.81	74.00	-21.84	32.14	6.18	45.97	130	290	Peak
2390.000	44.39	52.04	54.00	-9.61	32.14	6.18	45.97	130	290	Average
2480.000	100.20	107.48	/	/	32.35	6.30	45.93	130	290	Peak
2480.000	99.99	107.27	/	/	32.35	6.30	45.93	130	290	Average
2483.500	52.83	60.09	74.00	-21.17	32.36	6.31	45.93	130	290	Peak
2483.500	44.22	51.48	54.00	-9.78	32.36	6.31	45.93	130	290	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

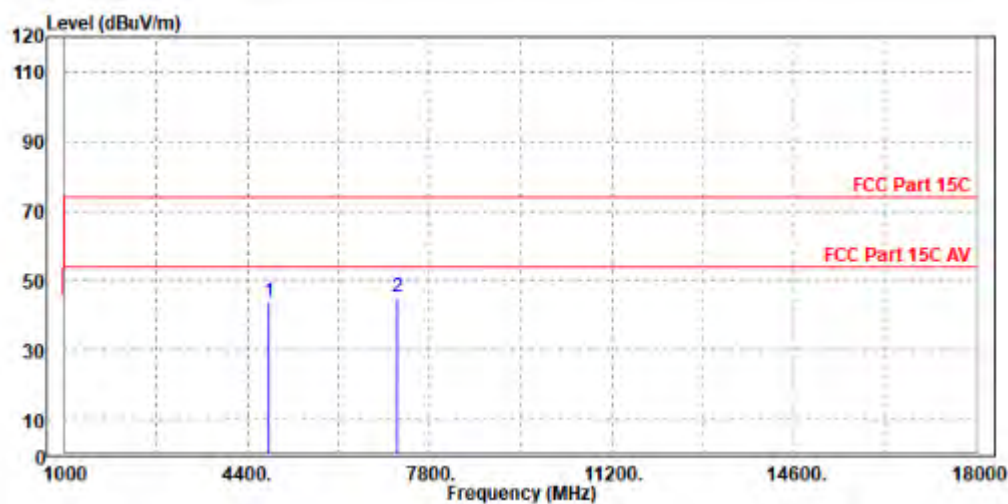
Test Report No.: W7L-P22110036RF02

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

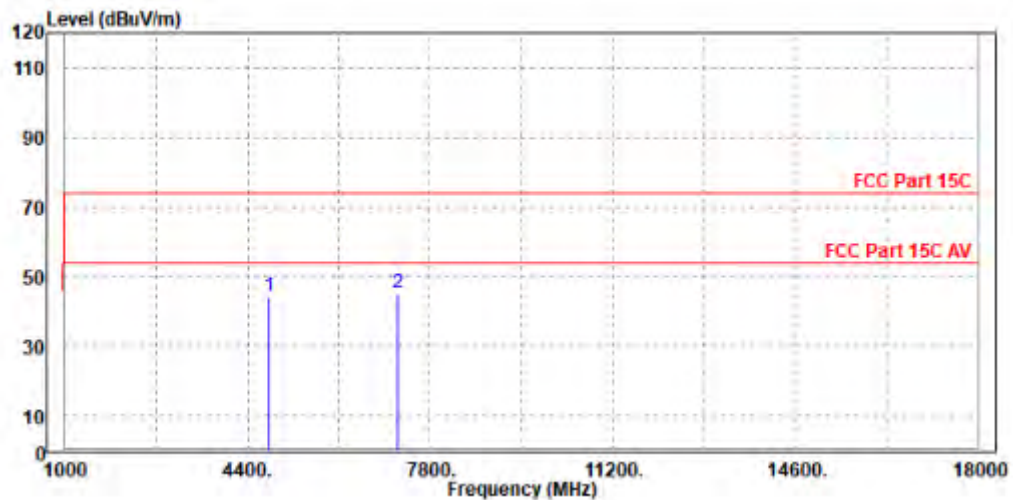
	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	4804.000	43.97	45.41	74.00	-30.03	-1.44	Peak	Horizontal
2 PP	7205.000	45.02	43.28	74.00	-28.98	1.74	Peak	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4808.000	44.09	45.33	74.00	-29.91	-1.24	Peak	Vertical
2 PP	7206.000	45.32	43.46	74.00	-28.68	1.86	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet



**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF02

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
2390.000	51.08	59.12	74.00	-22.92	31.75	6.18	45.97	100	190	Peak
2390.000	43.58	51.62	54.00	-10.42	31.75	6.18	45.97	100	190	Average
2402.000	97.30	105.29	/	/	31.79	6.19	45.97	100	190	Peak
2402.000	96.62	104.61	/	/	31.79	6.19	45.97	100	190	Average
2483.500	51.56	59.13	74.00	-22.44	32.05	6.31	45.93	100	190	Peak
2483.500	43.93	51.50	54.00	-10.07	32.05	6.31	45.93	100	190	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
2390.000	51.33	58.98	74.00	-22.67	32.14	6.18	45.97	130	290	Peak
2390.000	43.90	51.55	54.00	-10.10	32.14	6.18	45.97	130	290	Average
2402.000	101.54	109.16	/	/	32.16	6.19	45.97	130	290	Peak
2402.000	100.35	107.97	/	/	32.16	6.19	45.97	130	290	Average
2483.500	51.91	59.17	74.00	-22.09	32.36	6.31	45.93	130	290	Peak
2483.500	43.67	50.93	54.00	-10.33	32.36	6.31	45.93	130	290	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-P22110036RF02

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
2390.000	51.28	59.32	74.00	-22.72	31.75	6.18	45.97	100	190	Peak
2390.000	43.60	51.64	54.00	-10.40	31.75	6.18	45.97	100	190	Average
2440.000	98.48	106.27	/	/	31.91	6.25	45.95	100	190	Peak
2440.000	97.90	105.69	/	/	31.91	6.25	45.95	100	190	Average
2483.500	51.63	59.20	74.00	-22.37	32.05	6.31	45.93	100	190	Peak
2483.500	43.97	51.54	54.00	-10.03	32.05	6.31	45.93	100	190	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
2390.000	51.52	59.17	74.00	-22.48	32.14	6.18	45.97	135	290	Peak
2390.000	44.60	52.25	54.00	-9.40	32.14	6.18	45.97	135	290	Average
2440.000	102.64	110.08	/	/	32.26	6.25	45.95	135	290	Peak
2440.000	101.93	109.37	/	/	32.26	6.25	45.95	135	290	Average
2483.500	52.35	59.61	74.00	-21.65	32.36	6.31	45.93	135	290	Peak
2483.500	44.02	51.28	54.00	-9.98	32.36	6.31	45.93	135	290	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-P22110036RF02

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
2390.000	51.30	59.34	74.00	-22.70	31.75	6.18	45.97	100	0	Peak
2390.000	44.41	52.45	54.00	-9.59	31.75	6.18	45.97	100	0	Average
2480.000	97.31	104.90	/	/	32.04	6.30	45.93	100	0	Peak
2480.000	96.55	104.14	/	/	32.04	6.30	45.93	100	0	Average
2483.500	51.80	59.37	74.00	-22.20	32.05	6.31	45.93	100	0	Peak
2483.500	43.57	51.14	54.00	-10.43	32.05	6.31	45.93	100	0	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
2390.000	51.97	59.62	74.00	-22.03	32.14	6.18	45.97	135	290	Peak
2390.000	43.83	51.48	54.00	-10.17	32.14	6.18	45.97	135	290	Average
2480.000	100.64	107.92	/	/	32.35	6.30	45.93	135	290	Peak
2480.000	98.95	106.23	/	/	32.35	6.30	45.93	135	290	Average
2483.500	51.12	58.38	74.00	-22.88	32.36	6.31	45.93	135	290	Peak
2483.500	45.55	52.81	54.00	-8.45	32.36	6.31	45.93	135	290	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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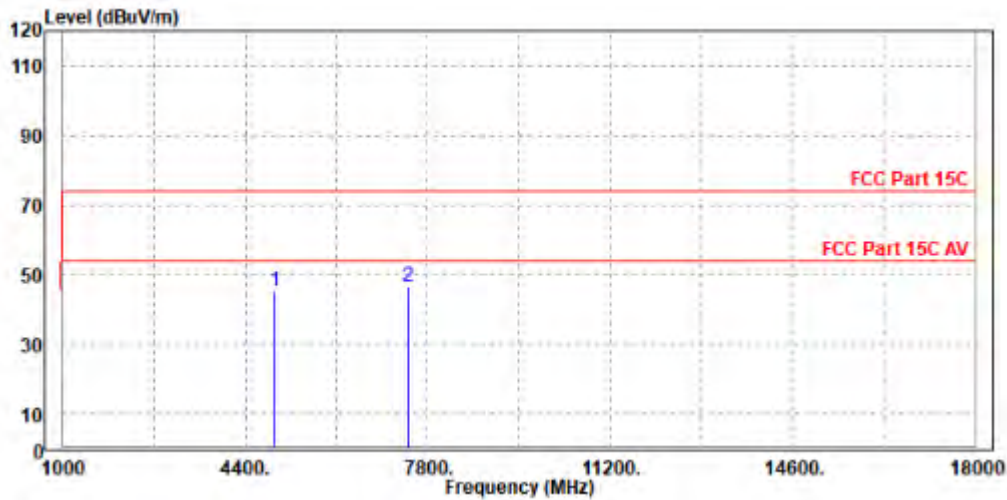
Test Report No.: W7L-P22110036RF02

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4961.000	45.31	46.50	74.00	-28.69	-1.19	Peak	Horizontal
2 PP	7440.000	46.36	44.38	74.00	-27.64	1.98	Peak	Horizontal



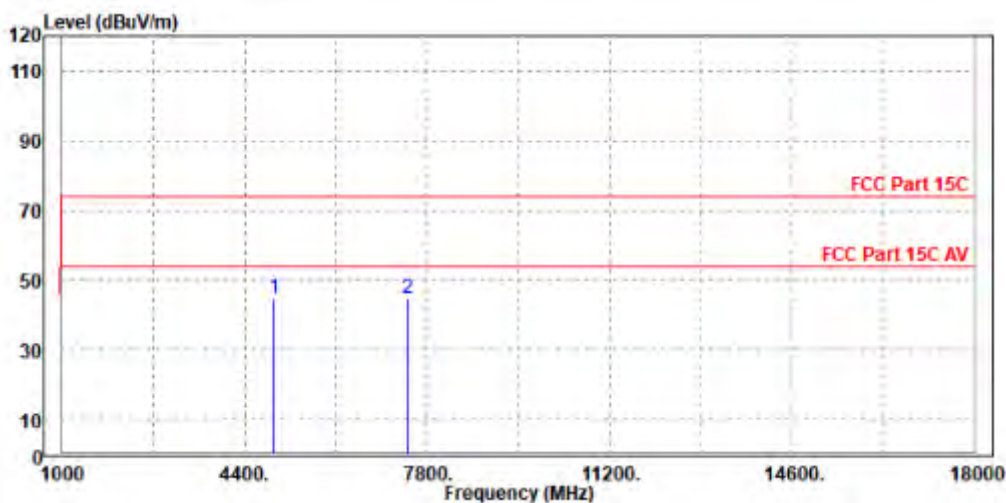


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Test Report No.: W7L-P22110036RF02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4960.000	44.64	45.63	74.00	-29.36	-0.99	Peak	Vertical
2 PP	7443.000	44.91	42.91	74.00	-29.09	2.00	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet



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	Feb. 22,22	Feb. 21,23
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Power Sensor	ANRITSU	MA2411B	1339352	May. 06,22	May. 05,23

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

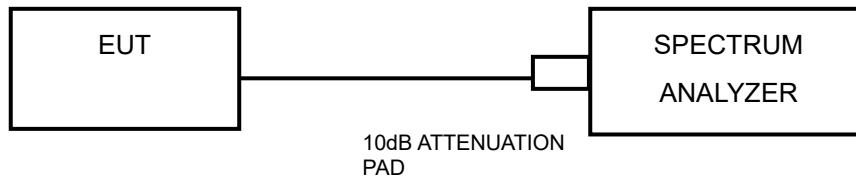
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points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



Test Report No.: W7L-P22110036RF02

3.3.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

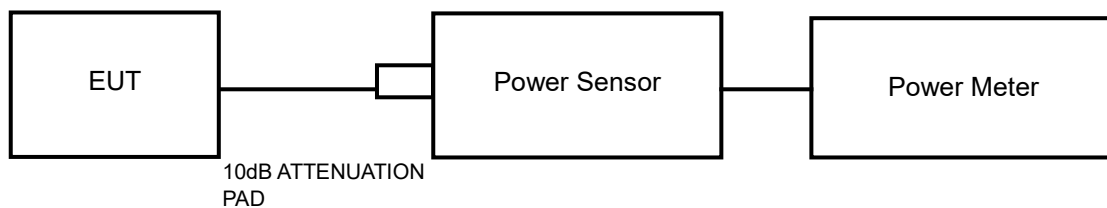


3.4 CONDUCTED OUTPUT POWER

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.