



**BUREAU
VERITAS**

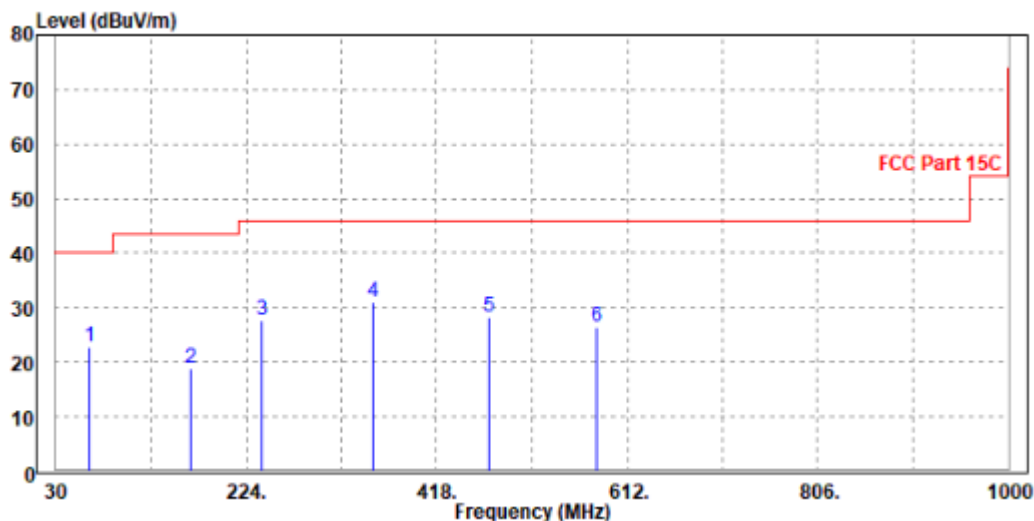
Test Report No.: W7L-P21080021RF08

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
64.92	22.88	51.27	40	-17.12	7.9	1.04	37.33	100	0	QP
166.77	18.97	42.94	43.5	-24.53	11.09	1.64	36.7	100	0	QP
240.49	27.57	48.87	46	-18.43	13.36	1.97	36.63	100	0	QP
353.01	30.97	49.2	46	-15.03	16.17	2.39	36.79	100	0	QP
471.35	28.19	43.76	46	-17.81	18.56	2.82	36.95	100	0	QP
580.96	26.6	40.18	46	-19.4	20.56	3.16	37.3	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





ABOVE 1GHz TEST DATA

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

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	50.18	58.94	74	-23.82	31.75	5.86	46.37	108	190	Peak
2390	42.33	51.09	54	-11.67	31.75	5.86	46.37	108	190	Average
2402	96.7	105.4			31.79	5.88	46.37	108	190	Peak
2402	94.67	103.37			31.79	5.88	46.37	108	190	Average
2483.5	50.32	58.65	74	-23.68	32.05	5.99	46.37	108	190	Peak
2483.5	42.7	51.03	54	-11.3	32.05	5.99	46.37	108	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	50.24	58.61	74	-23.76	32.14	5.86	46.37	100	190	Peak
2390	42.83	51.2	54	-11.17	32.14	5.86	46.37	100	190	Average
2402	97.4	105.73			32.16	5.88	46.37	100	190	Peak
2402	95.43	103.76			32.16	5.88	46.37	100	190	Average
2483.5	51.15	59.17	74	-22.85	32.36	5.99	46.37	100	190	Peak
2483.5	43.2	51.22	54	-10.8	32.36	5.99	46.37	100	190	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-P21080021RF08

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	50.06	58.82	74	-23.94	31.75	5.86	46.37	120	190	Peak
2390	42.64	51.4	54	-11.36	31.75	5.86	46.37	120	190	Average
2440	96.97	105.5			31.91	5.93	46.37	120	190	Peak
2440	94.61	103.14			31.91	5.93	46.37	120	190	Average
2483.5	50.55	58.88	74	-23.45	32.05	5.99	46.37	120	190	Peak
2483.5	43.67	52	54	-10.33	32.05	5.99	46.37	120	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	50.42	58.79	74	-23.58	32.14	5.86	46.37	100	190	Peak
2390	42.92	51.29	54	-11.08	32.14	5.86	46.37	100	190	Average
2440	98.53	106.71			32.26	5.93	46.37	100	190	Peak
2440	96.38	104.56			32.26	5.93	46.37	100	190	Average
2483.5	51.07	59.09	74	-22.93	32.36	5.99	46.37	100	190	Peak
2483.5	43.15	51.17	54	-10.85	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
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Test Report No.: W7L-P21080021RF08

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	50.33	59.09	74	-23.67	31.75	5.86	46.37	120	170	Peak
2390	43.45	52.21	54	-10.55	31.75	5.86	46.37	120	170	Average
2480	100.88	109.23			32.04	5.98	46.37	120	170	Peak
2480	96.79	105.14			32.04	5.98	46.37	120	170	Average
2483.5	51.03	59.36	74	-22.97	32.05	5.99	46.37	120	170	Peak
2483.5	43.51	51.84	54	-10.49	32.05	5.99	46.37	120	170	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	52.92	61.29	74	-21.08	32.14	5.86	46.37	100	195	Peak
2390	42.98	51.35	54	-11.02	32.14	5.86	46.37	100	195	Average
2480	98.87	106.91			32.35	5.98	46.37	100	195	Peak
2480	96.67	104.71			32.35	5.98	46.37	100	195	Average
2483.5	50.98	59	74	-23.02	32.36	5.99	46.37	100	195	Peak
2483.5	43.1	51.12	54	-10.9	32.36	5.99	46.37	100	195	Average

REMARKS:

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



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Test Report No.: W7L-P21080021RF08

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

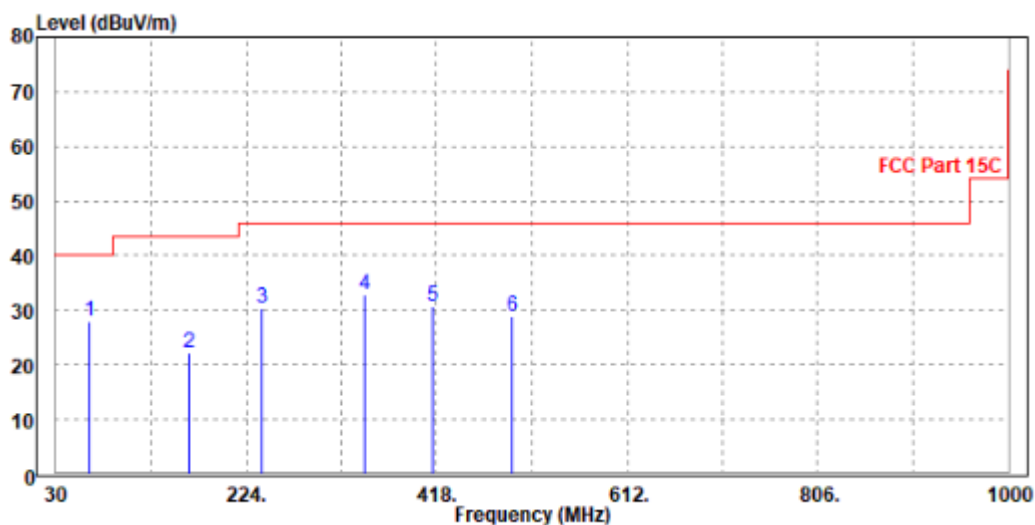
BT-LE _S8

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
63.95	27.88	56.54	40	-12.12	7.64	1.03	37.33	100	0	QP
165.8	22.26	46.63	43.5	-21.24	10.7	1.63	36.7	100	0	QP
239.52	30.45	52.37	46	-15.55	12.74	1.97	36.63	100	0	QP
345.25	32.97	52.09	46	-13.03	15.31	2.36	36.79	100	0	QP
414.12	30.65	47.74	46	-15.35	17.15	2.61	36.85	100	0	QP
495.6	28.78	44.24	46	-17.22	18.62	2.91	36.99	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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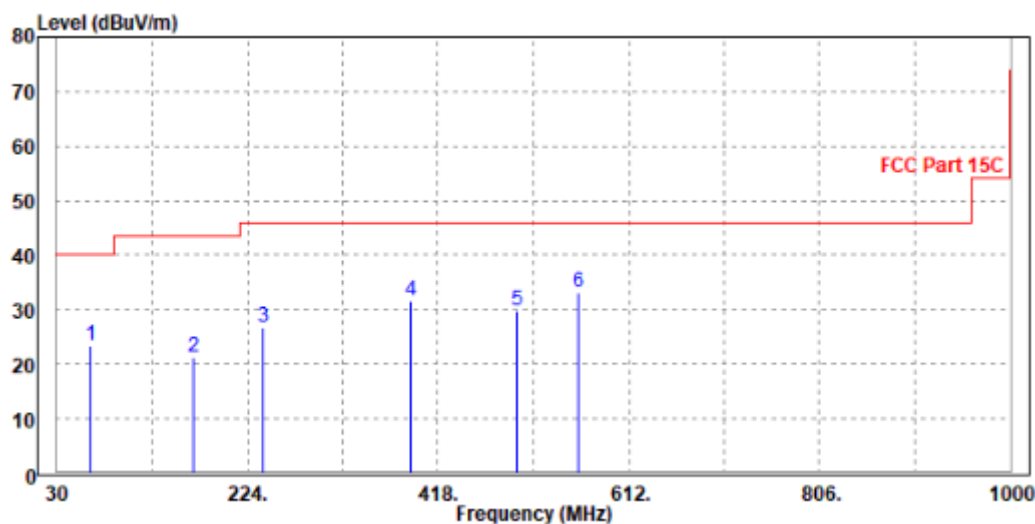
Test Report No.: W7L-P21080021RF08

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
63.95	23.39	51.79	40	-16.61	7.9	1.03	37.33	200	0	QP
169.68	21.3	45.42	43.5	-22.2	10.92	1.65	36.69	200	0	QP
239.52	26.81	48.15	46	-19.19	13.32	1.97	36.63	200	0	QP
390.84	31.76	49.06	46	-14.24	17	2.52	36.82	200	0	QP
498.51	29.76	44.77	46	-16.24	19.07	2.92	37	200	0	QP
560.59	33.06	46.99	46	-12.94	20.19	3.1	37.22	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





ABOVE 1GHz TEST DATA

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

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	51.06	59.82	74	-22.94	31.75	5.86	46.37	110	190	Peak
2390	43.29	52.05	54	-10.71	31.75	5.86	46.37	110	190	Average
2402	97.45	106.15			31.79	5.88	46.37	110	190	Peak
2402	95.07	103.77			31.79	5.88	46.37	110	190	Average
2483.5	51.23	59.56	74	-22.77	32.05	5.99	46.37	110	190	Peak
2483.5	43.11	51.44	54	-10.89	32.05	5.99	46.37	110	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	51.68	60.05	74	-22.32	32.14	5.86	46.37	100	190	Peak
2390	42.91	51.28	54	-11.09	32.14	5.86	46.37	100	190	Average
2402	98.97	107.3			32.16	5.88	46.37	100	190	Peak
2402	95.45	103.78			32.16	5.88	46.37	100	190	Average
2483.5	51.89	59.91	74	-22.11	32.36	5.99	46.37	100	190	Peak
2483.5	43.21	51.23	54	-10.79	32.36	5.99	46.37	100	190	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-P21080021RF08

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	50.43	59.19	74	-23.57	31.75	5.86	46.37	120	190	Peak
2390	43.74	52.5	54	-10.26	31.75	5.86	46.37	120	190	Average
2440	97.82	106.35			31.91	5.93	46.37	120	190	Peak
2440	93.69	102.22			31.91	5.93	46.37	120	190	Average
2483.5	50.28	58.61	74	-23.72	32.05	5.99	46.37	120	190	Peak
2483.5	43.13	51.46	54	-10.87	32.05	5.99	46.37	120	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	51.14	59.51	74	-22.86	32.14	5.86	46.37	100	190	Peak
2390	43.39	51.76	54	-10.61	32.14	5.86	46.37	100	190	Average
2440	97.6	105.78			32.26	5.93	46.37	100	190	Peak
2440	94.83	103.01			32.26	5.93	46.37	100	190	Average
2483.5	50.8	58.82	74	-23.2	32.36	5.99	46.37	100	190	Peak
2483.5	43.13	51.15	54	-10.87	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-P21080021RF08

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	50.68	59.44	74	-23.32	31.75	5.86	46.37	120	190	Peak
2390	43.35	52.11	54	-10.65	31.75	5.86	46.37	120	190	Average
2480	97.57	105.92			32.04	5.98	46.37	120	190	Peak
2480	94.97	103.32			32.04	5.98	46.37	120	190	Average
2483.5	50.29	58.62	74	-23.71	32.05	5.99	46.37	120	190	Peak
2483.5	42.93	51.26	54	-11.07	32.05	5.99	46.37	120	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	50.87	59.24	74	-23.13	32.14	5.86	46.37	100	190	Peak
2390	43.42	51.79	54	-10.58	32.14	5.86	46.37	100	190	Average
2480	98.67	106.71			32.35	5.98	46.37	100	190	Peak
2480	96.49	104.53			32.35	5.98	46.37	100	190	Average
2483.5	50.32	58.34	74	-23.68	32.36	5.99	46.37	100	190	Peak
2483.5	43.94	51.96	54	-10.06	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.



**BUREAU
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Test Report No.: W7L-P21080021RF08

BELOW 1GHz TEST DATA

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

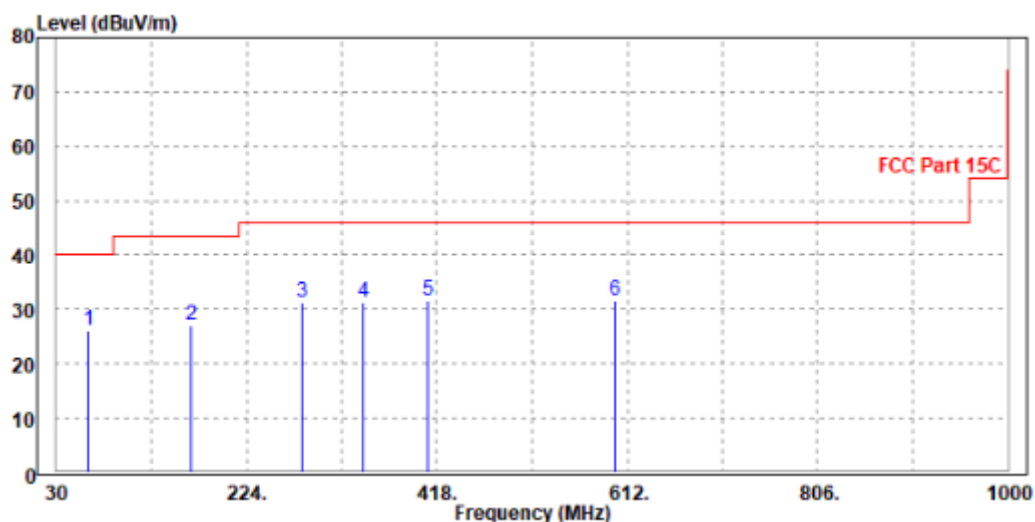
2SECEND-BT-LE_1M

CHANNEL	TX Channel 0	DETECTOR FUNCTION	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
62.98	26.28	54.96	40	-13.72	7.63	1.02	37.33	200	0	Peak
167.74	26.92	51.35	43.5	-16.58	10.63	1.64	36.7	200	0	Peak
280.26	31.3	52.2	46	-14.7	13.68	2.13	36.71	200	0	Peak
343.31	31.24	50.4	46	-14.76	15.26	2.36	36.78	200	0	Peak
408.3	31.61	48.82	46	-14.39	17.05	2.58	36.84	200	0	Peak
599.39	31.74	45.2	46	-14.26	20.69	3.22	37.37	200	0	Peak

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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VERITAS**

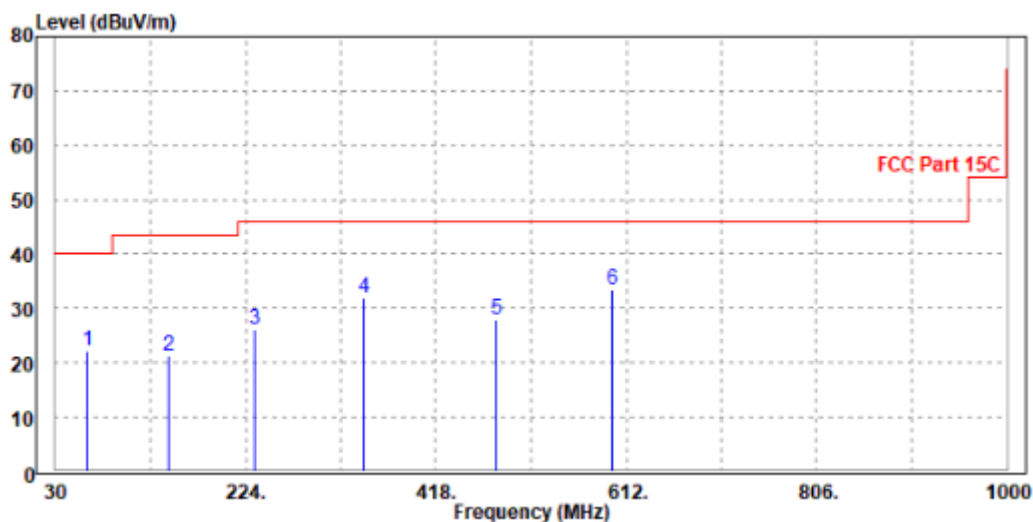
Test Report No.: W7L-P21080021RF08

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
62.98	22.29	50.7	40	-17.71	7.9	1.02	37.33	100	0	Peak
146.4	21.22	47.14	43.5	-22.28	9.39	1.54	36.85	100	0	Peak
233.7	26.05	47.68	46	-19.95	13.05	1.94	36.62	100	0	Peak
344.28	31.97	50.43	46	-14.03	15.97	2.36	36.79	100	0	Peak
480.08	27.92	43.32	46	-18.08	18.72	2.85	36.97	100	0	Peak
597.45	33.61	46.91	46	-12.39	20.85	3.21	37.36	100	0	Peak

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





**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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	50.87	59.63	74	-23.13	31.75	5.86	46.37	180	195	Peak
2390	43.52	52.28	54	-10.48	31.75	5.86	46.37	180	195	Average
2402	100.75	109.45	-	-	31.79	5.88	46.37	180	195	Peak
2402	100.55	109.25	-	-	31.79	5.88	46.37	180	195	Average
2483.5	51.19	59.52	74	-22.81	32.05	5.99	46.37	180	195	Peak
2483.5	43.69	52.02	54	-10.31	32.05	5.99	46.37	180	195	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	51.61	59.98	74	-22.39	32.14	5.86	46.37	102	190	Peak
2390	44.37	52.74	54	-9.63	32.14	5.86	46.37	102	190	Average
2402	100.11	108.44	-	-	32.16	5.88	46.37	102	190	Peak
2402	99.64	107.97	-	-	32.16	5.88	46.37	102	190	Average
2483.5	52.71	60.73	74	-21.29	32.36	5.99	46.37	102	190	Peak
2483.5	43.91	51.93	54	-10.09	32.36	5.99	46.37	102	190	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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	50.66	59.42	74	-23.34	31.75	5.86	46.37	105	80	Peak
2390	42.95	51.71	54	-11.05	31.75	5.86	46.37	105	80	Average
2440	98.24	106.77	-	-	31.91	5.93	46.37	105	80	Peak
2440	98.05	106.58	-	-	31.91	5.93	46.37	105	80	Average
2483.5	50.81	59.14	74	-23.19	32.05	5.99	46.37	105	80	Peak
2483.5	43.38	51.71	54	-10.62	32.05	5.99	46.37	105	80	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	51.93	60.3	74	-22.07	32.14	5.86	46.37	100	190	Peak
2390	43.52	51.89	54	-10.48	32.14	5.86	46.37	100	190	Average
2440	99.49	107.67	-	-	32.26	5.93	46.37	100	190	Peak
2440	99.3	107.48	-	-	32.26	5.93	46.37	100	190	Average
2483.5	51.02	59.04	74	-22.98	32.36	5.99	46.37	100	190	Peak
2483.5	43.82	51.84	54	-10.18	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-P21080021RF08

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	51.38	60.14	74	-22.62	31.75	5.86	46.37	150	190	Peak
2390	43.44	52.2	54	-10.56	31.75	5.86	46.37	150	190	Average
2480	99.6	107.95	-	-	32.04	5.98	46.37	150	190	Peak
2480	98.94	107.29	-	-	32.04	5.98	46.37	150	190	Average
2483.5	52.19	60.52	74	-21.81	32.05	5.99	46.37	150	190	Peak
2483.5	44.78	53.11	54	-9.22	32.05	5.99	46.37	150	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	51.23	59.6	74	-22.77	32.14	5.86	46.37	100	190	Peak
2390	44	52.37	54	-10	32.14	5.86	46.37	100	190	Average
2480	99.39	107.43	-	-	32.35	5.98	46.37	100	190	Peak
2480	99.26	107.3	-	-	32.35	5.98	46.37	100	190	Average
2483.5	53.69	61.71	74	-20.31	32.36	5.99	46.37	100	190	Peak
2483.5	45.19	53.21	54	-8.81	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.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

BELOW 1GHz TEST DATA

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

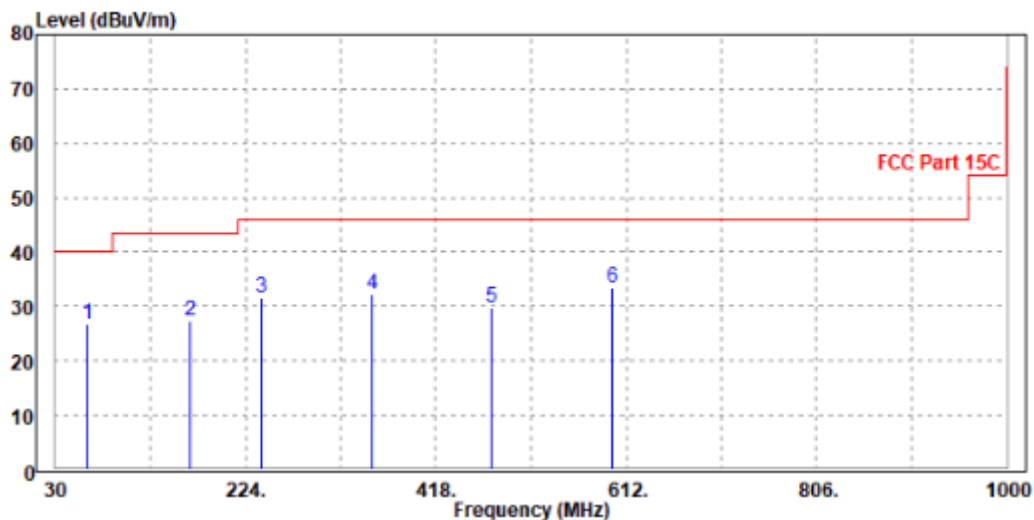
2SECEND-BT-LE _2M

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
62.98	26.68	55.36	40	-13.32	7.63	1.02	37.33	100	0	Peak
167.74	27.31	51.74	43.5	-16.19	10.63	1.64	36.7	100	0	Peak
240.49	31.55	53.43	46	-14.45	12.78	1.97	36.63	100	0	Peak
353.01	32.13	50.99	46	-13.87	15.54	2.39	36.79	100	0	Peak
475.23	29.73	45.61	46	-16.27	18.25	2.83	36.96	100	0	Peak
598.42	33.59	47.07	46	-12.41	20.67	3.21	37.36	100	0	Peak

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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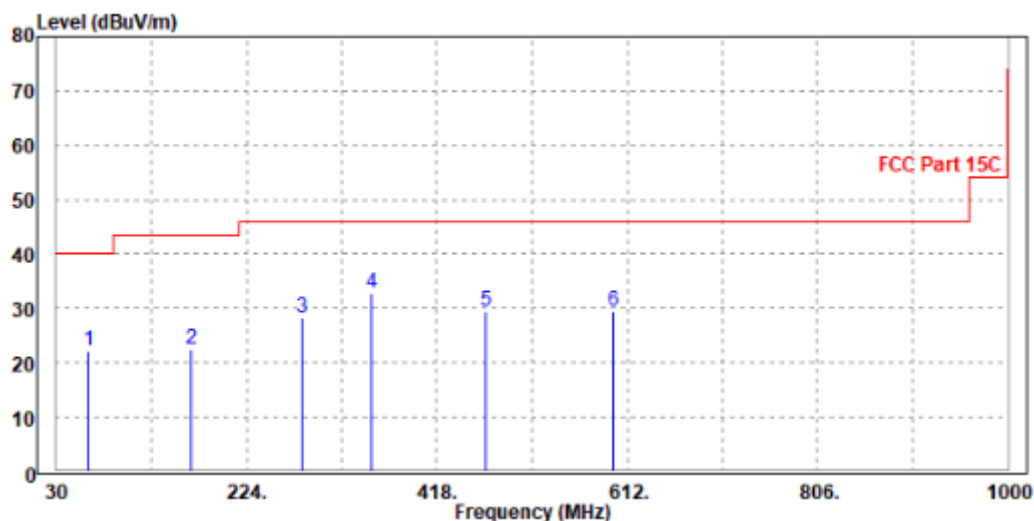
Test Report No.: W7L-P21080021RF08

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
62.98	22.29	50.7	40	-17.71	7.9	1.02	37.33	200	0	Peak
167.74	22.57	46.59	43.5	-20.93	11.04	1.64	36.7	200	0	Peak
280.26	28.41	48.46	46	-17.59	14.53	2.13	36.71	200	0	Peak
352.04	33	51.26	46	-13	16.14	2.39	36.79	200	0	Peak
467.47	29.48	45.14	46	-16.52	18.48	2.8	36.94	200	0	Peak
597.45	29.46	42.76	46	-16.54	20.85	3.21	37.36	200	0	Peak

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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VERITAS**

Test Report No.: W7L-P21080021RF08

ABOVE 1GHZ TEST DATA

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

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	51.1	59.86	74	-22.9	31.75	5.86	46.37	180	195	Peak
2390	43.77	52.53	54	-10.23	31.75	5.86	46.37	180	195	Average
2402	100.4	109.1	-	-	31.79	5.88	46.37	180	195	Peak
2402	98.45	107.15	-	-	31.79	5.88	46.37	180	195	Average
2483.5	51.67	60	74	-22.33	32.05	5.99	46.37	180	195	Peak
2483.5	43.7	52.03	54	-10.3	32.05	5.99	46.37	180	195	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	51.91	60.28	74	-22.09	32.14	5.86	46.37	100	190	Peak
2390	43.37	51.74	54	-10.63	32.14	5.86	46.37	100	190	Average
2402	99.22	107.55	-	-	32.16	5.88	46.37	100	190	Peak
2402	97.03	105.36	-	-	32.16	5.88	46.37	100	190	Average
2483.5	51.43	59.45	74	-22.57	32.36	5.99	46.37	100	190	Peak
2483.5	43.75	51.77	54	-10.25	32.36	5.99	46.37	100	190	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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	51.38	60.14	74	-22.62	31.75	5.86	46.37	103	80	Peak
2390	42.88	51.64	54	-11.12	31.75	5.86	46.37	103	80	Average
2440	97.85	106.38	-	-	31.91	5.93	46.37	103	80	Peak
2440	95.81	104.34	-	-	31.91	5.93	46.37	103	80	Average
2483.5	52.2	60.53	74	-21.8	32.05	5.99	46.37	103	80	Peak
2483.5	43.46	51.79	54	-10.54	32.05	5.99	46.37	103	80	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	190	Peak
2390	43.65	52.02	54	-10.35	32.14	5.86	46.37	100	190	Average
2440	99.28	107.46	-	-	32.26	5.93	46.37	100	190	Peak
2440	97.51	105.69	-	-	32.26	5.93	46.37	100	190	Average
2483.5	52.05	60.07	74	-21.95	32.36	5.99	46.37	100	190	Peak
2483.5	43.83	51.85	54	-10.17	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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Test Report No.: W7L-P21080021RF08

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	50.35	59.11	74	-23.65	31.75	5.86	46.37	150	80	Peak
2390	43.08	51.84	54	-10.92	31.75	5.86	46.37	150	80	Average
2480	98.25	106.6	–	–	32.04	5.98	46.37	150	80	Peak
2480	96.48	104.83	–	–	32.04	5.98	46.37	150	80	Average
2483.5	54.62	62.95	74	-19.38	32.05	5.99	46.37	150	80	Peak
2483.5	46.58	54.91	54	-7.42	32.05	5.99	46.37	150	80	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	51.53	59.9	74	-22.47	32.14	5.86	46.37	100	190	Peak
2390	43.67	52.04	54	-10.33	32.14	5.86	46.37	100	190	Average
2480	99.51	107.55	–	–	32.35	5.98	46.37	100	190	Peak
2480	97.67	105.71	–	–	32.35	5.98	46.37	100	190	Average
2483.5	54.34	62.36	74	-19.66	32.36	5.99	46.37	100	190	Peak
2483.5	47.37	55.39	54	-6.63	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-P21080021RF08

BELOW 1GHz TEST DATA

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

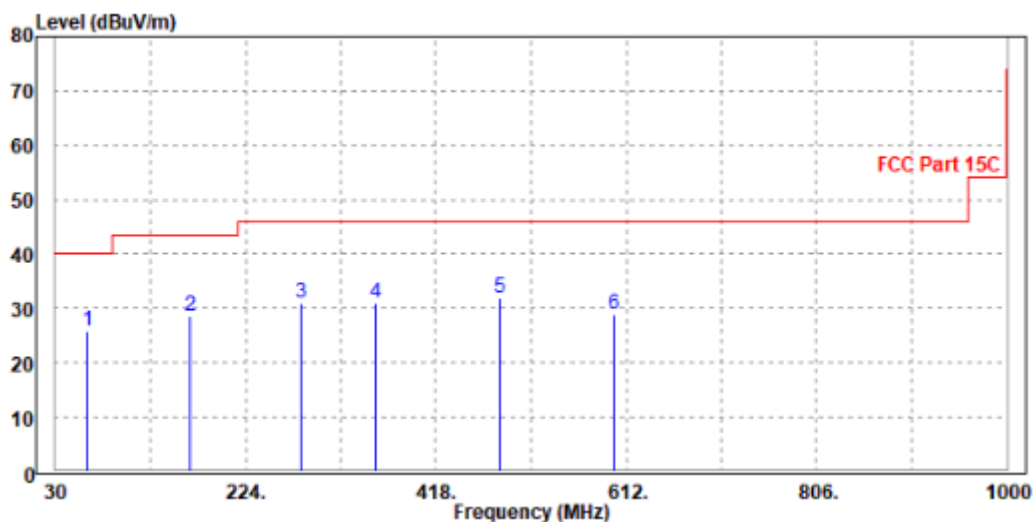
2SECEND-BT-LE _S2

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
62.98	25.83	54.51	40	-14.17	7.63	1.02	37.33	200	0	Peak
167.74	28.59	53.02	43.5	-14.91	10.63	1.64	36.7	200	0	Peak
280.26	30.99	51.89	46	-15.01	13.68	2.13	36.71	200	0	Peak
355.92	30.9	49.67	46	-15.1	15.62	2.4	36.79	200	0	Peak
482.99	32.03	47.75	46	-13.97	18.39	2.86	36.97	200	0	Peak
599.39	28.77	42.23	46	-17.23	20.69	3.22	37.37	200	0	Peak

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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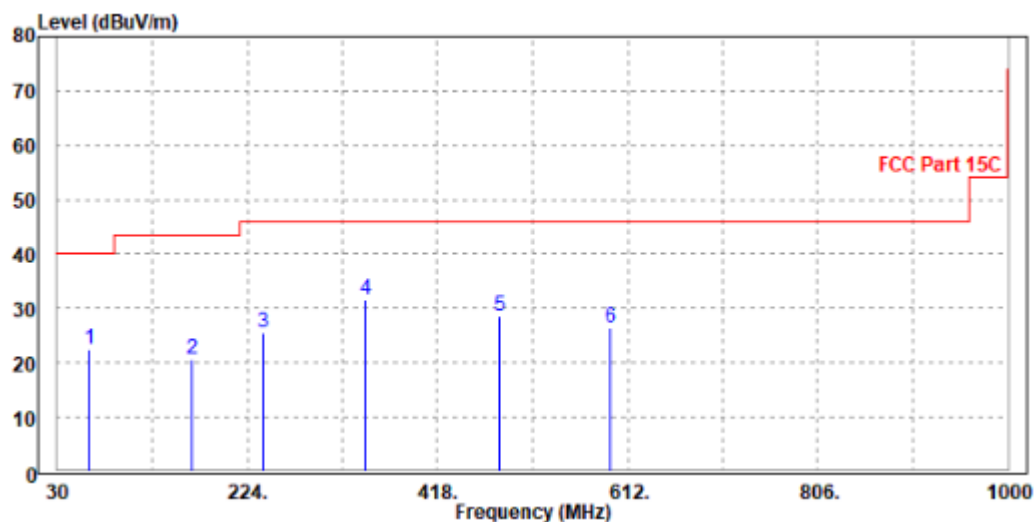
Test Report No.: W7L-P21080021RF08

CHANNEL	TX Channel 11	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
62.98	22.5	50.91	40	-17.5	7.9	1.02	37.33	100	0	Peak
167.74	20.62	44.64	43.5	-22.88	11.04	1.64	36.7	100	0	Peak
240.49	25.6	46.9	46	-20.4	13.36	1.97	36.63	100	0	Peak
345.25	31.73	50.16	46	-14.27	16	2.36	36.79	100	0	Peak
481.05	28.45	43.82	46	-17.55	18.74	2.86	36.97	100	0	Peak
594.54	26.41	39.76	46	-19.59	20.8	3.2	37.35	100	0	Peak

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





**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

ABOVE 1GHZ TEST DATA

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

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	51.2	59.96	74	-22.8	31.75	5.86	46.37	180	210	Peak
2390	43.3	52.06	54	-10.7	31.75	5.86	46.37	180	210	Average
2402	98.08	106.78	-	-	31.79	5.88	46.37	180	210	Peak
2402	97.84	106.54	-	-	31.79	5.88	46.37	180	210	Average
2483.5	51.67	60	74	-22.33	32.05	5.99	46.37	180	210	Peak
2483.5	43.56	51.89	54	-10.44	32.05	5.99	46.37	180	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	50.68	59.05	74	-23.32	32.14	5.86	46.37	100	190	Peak
2390	44.04	52.41	54	-9.96	32.14	5.86	46.37	100	190	Average
2402	100.03	108.36	-	-	32.16	5.88	46.37	100	190	Peak
2402	98.75	107.08	-	-	32.16	5.88	46.37	100	190	Average
2483.5	50.74	58.76	74	-23.26	32.36	5.99	46.37	100	190	Peak
2483.5	43.76	51.78	54	-10.24	32.36	5.99	46.37	100	190	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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	50.25	59.01	74	-23.75	31.75	5.86	46.37	105	80	Peak
2390	42.84	51.6	54	-11.16	31.75	5.86	46.37	105	80	Average
2440	98.26	106.79	-	-	31.91	5.93	46.37	105	80	Peak
2440	98.04	106.57	-	-	31.91	5.93	46.37	105	80	Average
2483.5	51.51	59.84	74	-22.49	32.05	5.99	46.37	105	80	Peak
2483.5	43.62	51.95	54	-10.38	32.05	5.99	46.37	105	80	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	51.85	60.22	74	-22.15	32.14	5.86	46.37	100	190	Peak
2390	43.73	52.1	54	-10.27	32.14	5.86	46.37	100	190	Average
2440	99.66	107.84	-	-	32.26	5.93	46.37	100	190	Peak
2440	99.25	107.43	-	-	32.26	5.93	46.37	100	190	Average
2483.5	50.95	58.97	74	-23.05	32.36	5.99	46.37	100	190	Peak
2483.5	43.48	51.5	54	-10.52	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-P21080021RF08

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	50.37	59.13	74	-23.63	31.75	5.86	46.37	150	80	Peak
2390	43.02	51.78	54	-10.98	31.75	5.86	46.37	150	80	Average
2480	98.61	106.96	-	-	32.04	5.98	46.37	150	80	Peak
2480	98.08	106.43	-	-	32.04	5.98	46.37	150	80	Average
2483.5	52.02	60.35	74	-21.98	32.05	5.99	46.37	150	80	Peak
2483.5	44.88	53.21	54	-9.12	32.05	5.99	46.37	150	80	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	43.99	52.36	54	-10.01	32.14	5.86	46.37	100	190	Average
2480	99.58	107.62	-	-	32.35	5.98	46.37	100	190	Peak
2480	99.32	107.36	-	-	32.35	5.98	46.37	100	190	Average
2483.5	53.78	61.8	74	-20.22	32.36	5.99	46.37	100	190	Peak
2483.5	45.41	53.43	54	-8.59	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.



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

BELOW 1GHz TEST DATA

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

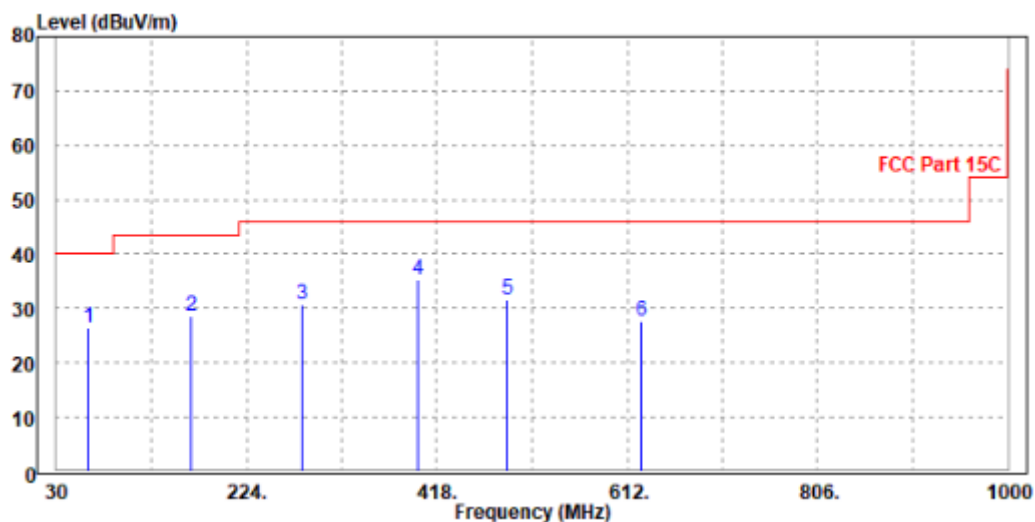
2SECEND-BT-LE _S8

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
62.98	26.56	55.24	40	-13.44	7.63	1.02	37.33	100	0	Peak
167.74	28.74	53.17	43.5	-14.76	10.63	1.64	36.7	100	0	Peak
280.26	30.6	51.5	46	-15.4	13.68	2.13	36.71	100	0	Peak
398.6	35.28	52.7	46	-10.72	16.86	2.55	36.83	100	0	Peak
489.78	31.51	47.08	46	-14.49	18.52	2.89	36.98	100	0	Peak
625.58	27.55	40.45	46	-18.45	21.21	3.3	37.41	100	0	Peak

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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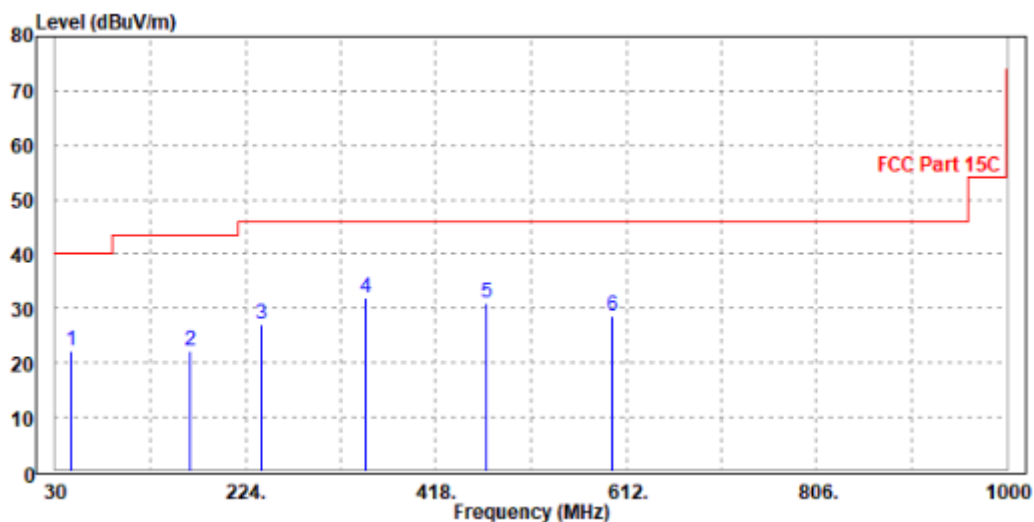
Test Report No.: W7L-P21080021RF08

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
45.52	22.29	48.39	40	-17.71	10.43	0.87	37.4	200	0	Peak
167.74	22.21	46.23	43.5	-21.29	11.04	1.64	36.7	200	0	Peak
239.52	27.01	48.35	46	-18.99	13.32	1.97	36.63	200	0	Peak
346.22	31.81	50.21	46	-14.19	16.02	2.37	36.79	200	0	Peak
469.41	31.18	46.8	46	-14.82	18.52	2.81	36.95	200	0	Peak
598.42	28.46	41.74	46	-17.54	20.87	3.21	37.36	200	0	Peak

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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VERITAS**

Test Report No.: W7L-P21080021RF08

ABOVE 1GHZ TEST DATA

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

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	51.03	59.79	74	-22.97	31.75	5.86	46.37	180	205	Peak
2390	43.36	52.12	54	-10.64	31.75	5.86	46.37	180	205	Average
2402	98.85	107.55	-	-	31.79	5.88	46.37	180	205	Peak
2402	98.16	106.86	-	-	31.79	5.88	46.37	180	205	Average
2483.5	50.98	59.31	74	-23.02	32.05	5.99	46.37	180	205	Peak
2483.5	43.73	52.06	54	-10.27	32.05	5.99	46.37	180	205	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	51.61	59.98	74	-22.39	32.14	5.86	46.37	100	190	Peak
2390	44.28	52.65	54	-9.72	32.14	5.86	46.37	100	190	Average
2402	99.21	107.54	-	-	32.16	5.88	46.37	100	190	Peak
2402	98.46	106.79	-	-	32.16	5.88	46.37	100	190	Average
2483.5	52.83	60.85	74	-21.17	32.36	5.99	46.37	100	190	Peak
2483.5	43.71	51.73	54	-10.29	32.36	5.99	46.37	100	190	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF08

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	105	80	Peak
2390	43.32	52.08	54	-10.68	31.75	5.86	46.37	105	80	Average
2440	98.1	106.63	-	-	31.91	5.93	46.37	105	80	Peak
2440	97.09	105.62	-	-	31.91	5.93	46.37	105	80	Average
2483.5	51.33	59.66	74	-22.67	32.05	5.99	46.37	105	80	Peak
2483.5	43.36	51.69	54	-10.64	32.05	5.99	46.37	105	80	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	50.28	58.65	74	-23.72	32.14	5.86	46.37	100	190	Peak
2390	43.71	52.08	54	-10.29	32.14	5.86	46.37	100	190	Average
2440	99.35	107.53	-	-	32.26	5.93	46.37	100	190	Peak
2440	98.68	106.86	-	-	32.26	5.93	46.37	100	190	Average
2483.5	51.48	59.5	74	-22.52	32.36	5.99	46.37	100	190	Peak
2483.5	43.69	51.71	54	-10.31	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-P21080021RF08

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	50.43	59.19	74	-23.57	31.75	5.86	46.37	150	80	Peak
2390	43.17	51.93	54	-10.83	31.75	5.86	46.37	150	80	Average
2480	98.58	106.93	-	-	32.04	5.98	46.37	150	80	Peak
2480	97.48	105.83	-	-	32.04	5.98	46.37	150	80	Average
2483.5	52.63	60.96	74	-21.37	32.05	5.99	46.37	150	80	Peak
2483.5	44.71	53.04	54	-9.29	32.05	5.99	46.37	150	80	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	51.13	59.5	74	-22.87	32.14	5.86	46.37	100	190	Peak
2390	43.94	52.31	54	-10.06	32.14	5.86	46.37	100	190	Average
2480	99.7	107.74	-	-	32.35	5.98	46.37	100	190	Peak
2480	98.62	106.66	-	-	32.35	5.98	46.37	100	190	Average
2483.5	53.63	61.65	74	-20.37	32.36	5.99	46.37	100	190	Peak
2483.5	45.78	53.8	54	-8.22	32.36	5.99	46.37	100	190	Average

REMARKS:

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

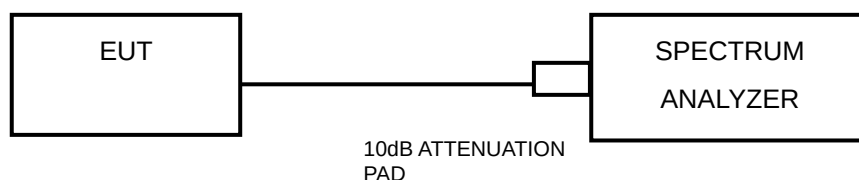
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (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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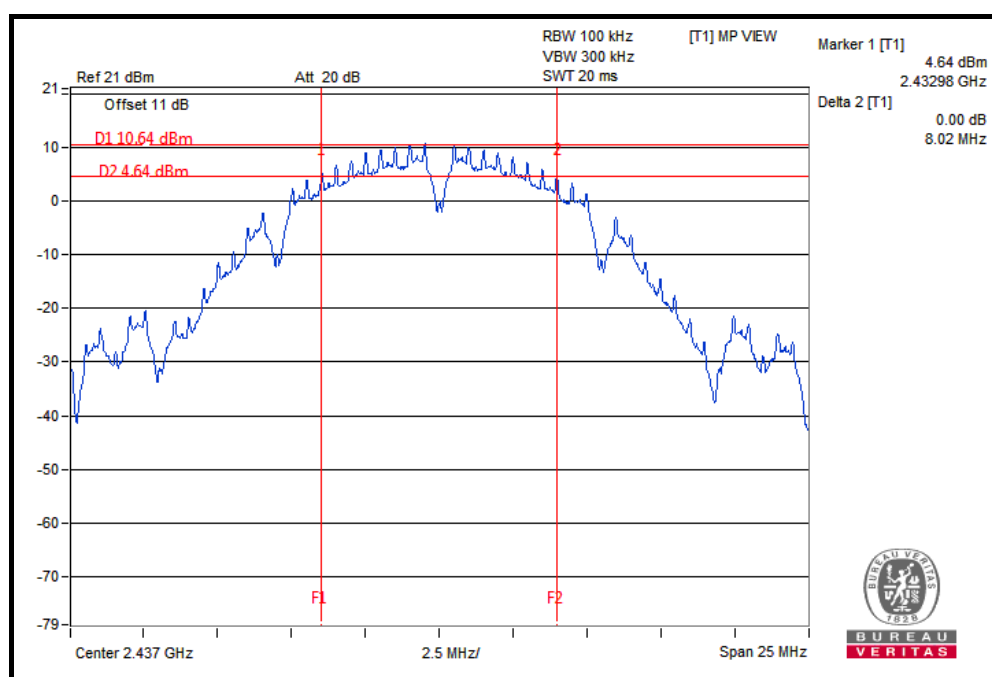
Test Report No.: W7L-P21080021RF08

3.3.7 TEST RESULTS

SISO ANT0

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	7.54	0.5	PASS
6	2437	8.02	0.5	PASS
11	2462	7.07	0.5	PASS



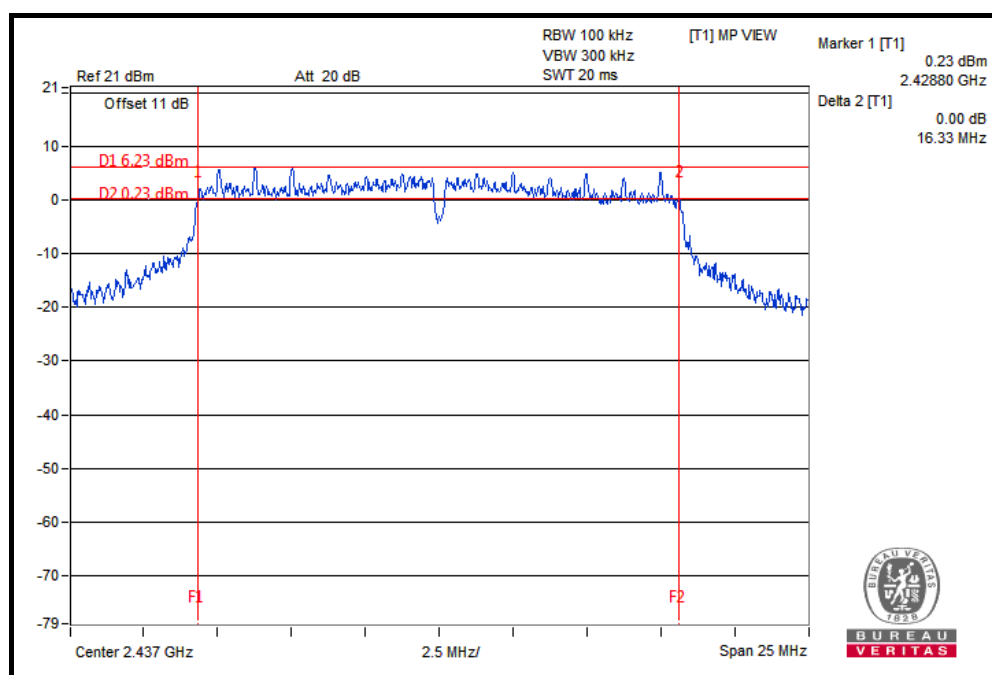


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VERITAS

Test Report No.: W7L-P21080021RF08

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.70	0.5	PASS
6	2437	16.33	0.5	PASS
11	2462	15.64	0.5	PASS



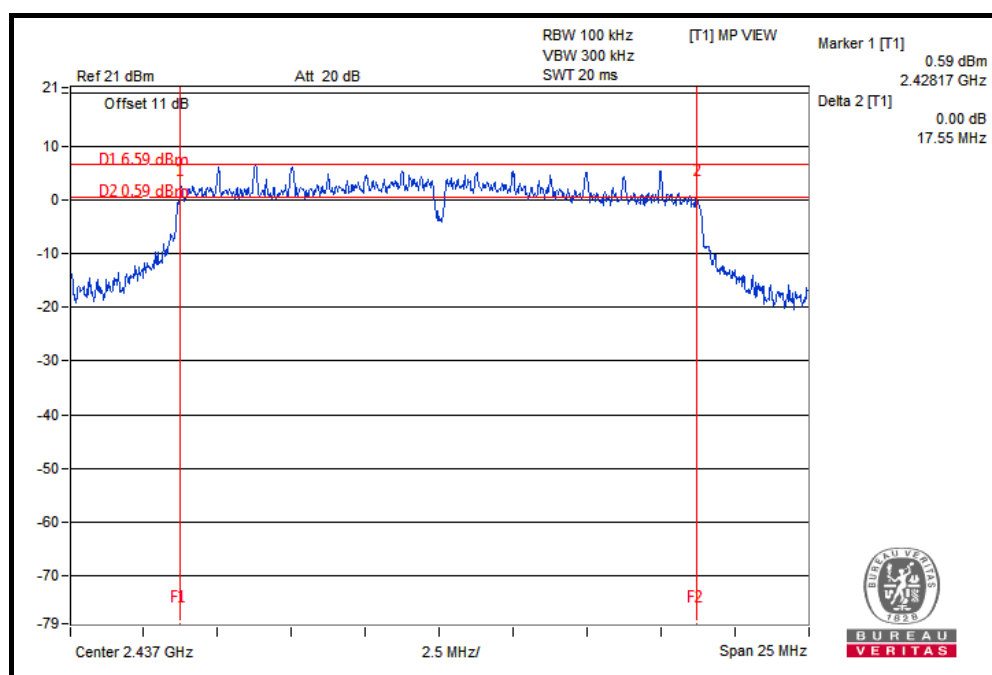


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VERITAS

Test Report No.: W7L-P21080021RF08

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.31	0.5	PASS
6	2437	17.55	0.5	PASS
11	2462	16.09	0.5	PASS



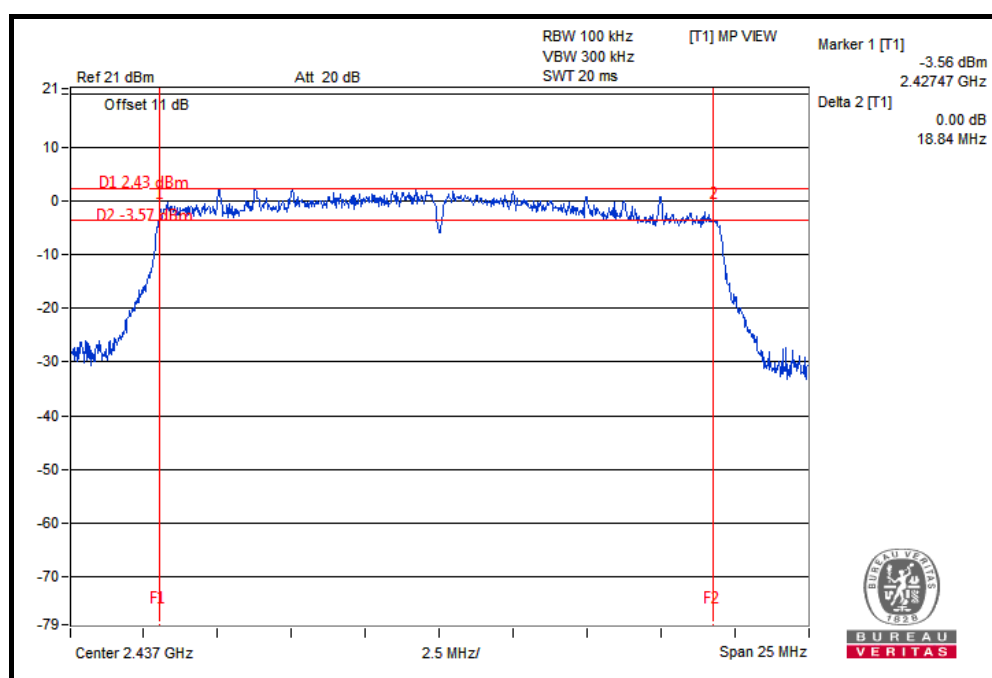


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VERITAS

Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.99	0.5	PASS
6	2437	18.84	0.5	PASS
11	2462	16.76	0.5	PASS





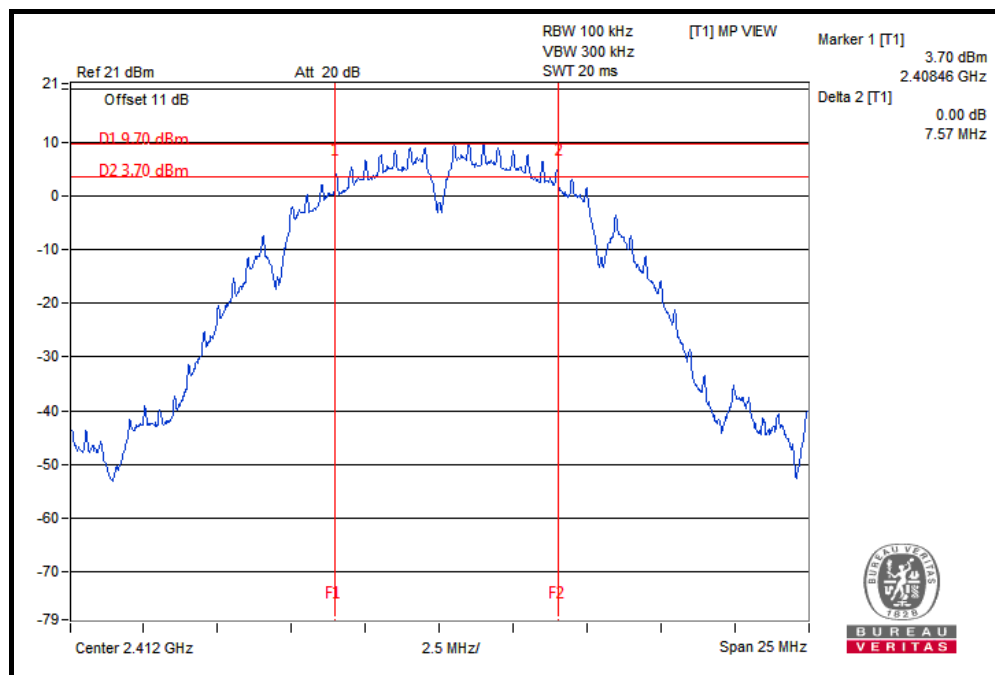
BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

SISO ANT1

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	7.57	0.5	PASS
6	2437	7.55	0.5	PASS
11	2462	7.56	0.5	PASS



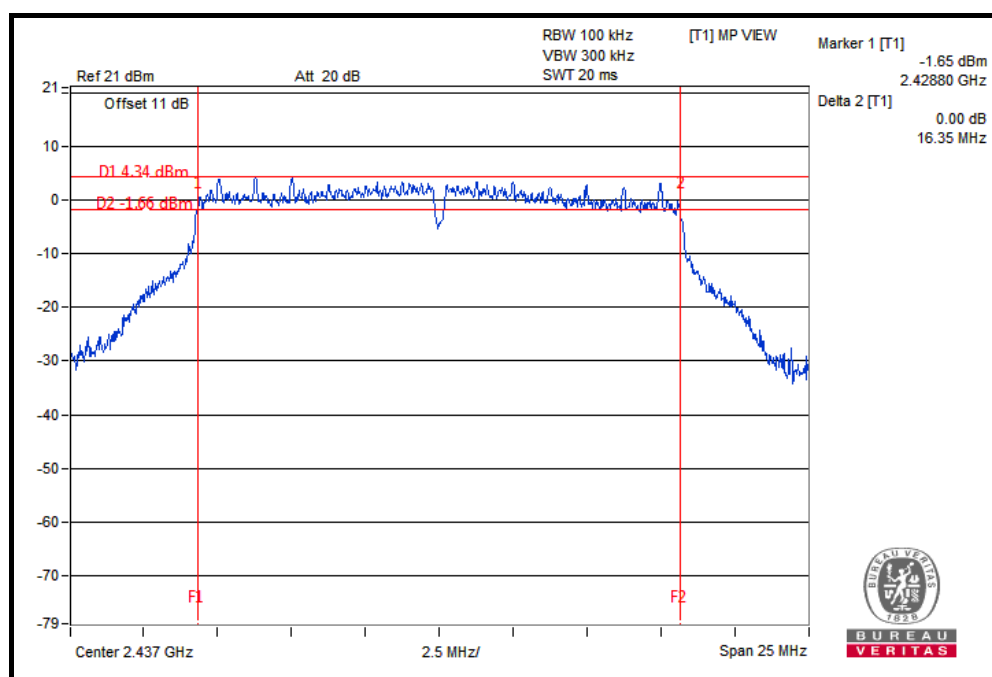


BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.72	0.5	PASS
6	2437	16.35	0.5	PASS
11	2462	16.07	0.5	PASS



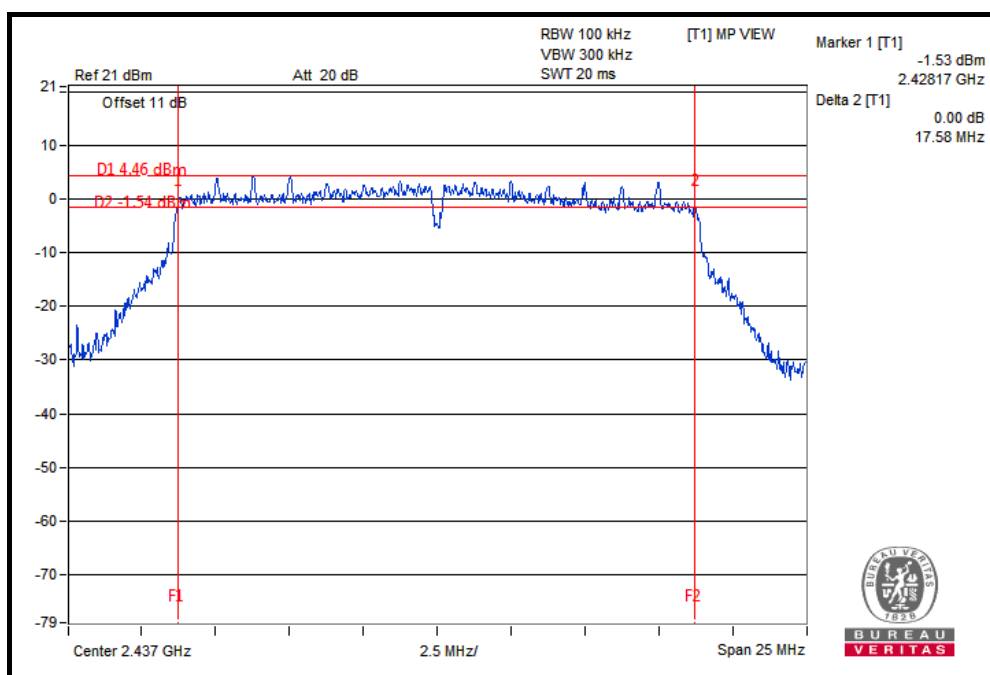


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VERITAS

Test Report No.: W7L-P21080021RF08

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.35	0.5	PASS
6	2437	17.58	0.5	PASS
11	2462	16.35	0.5	PASS



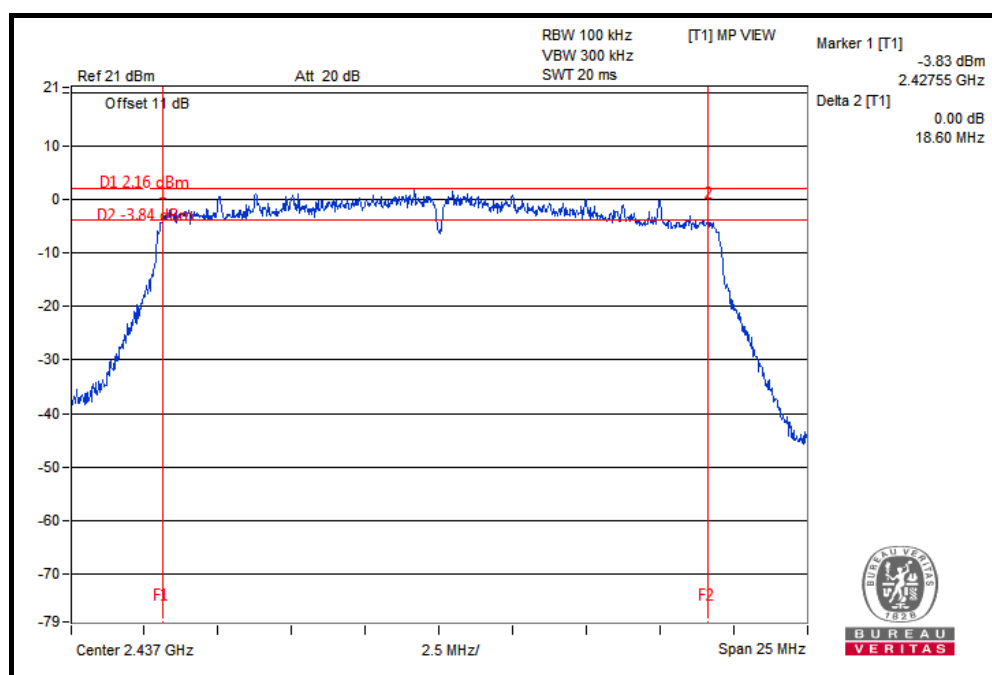


BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.04	0.5	PASS
6	2437	18.60	0.5	PASS
11	2462	18.39	0.5	PASS



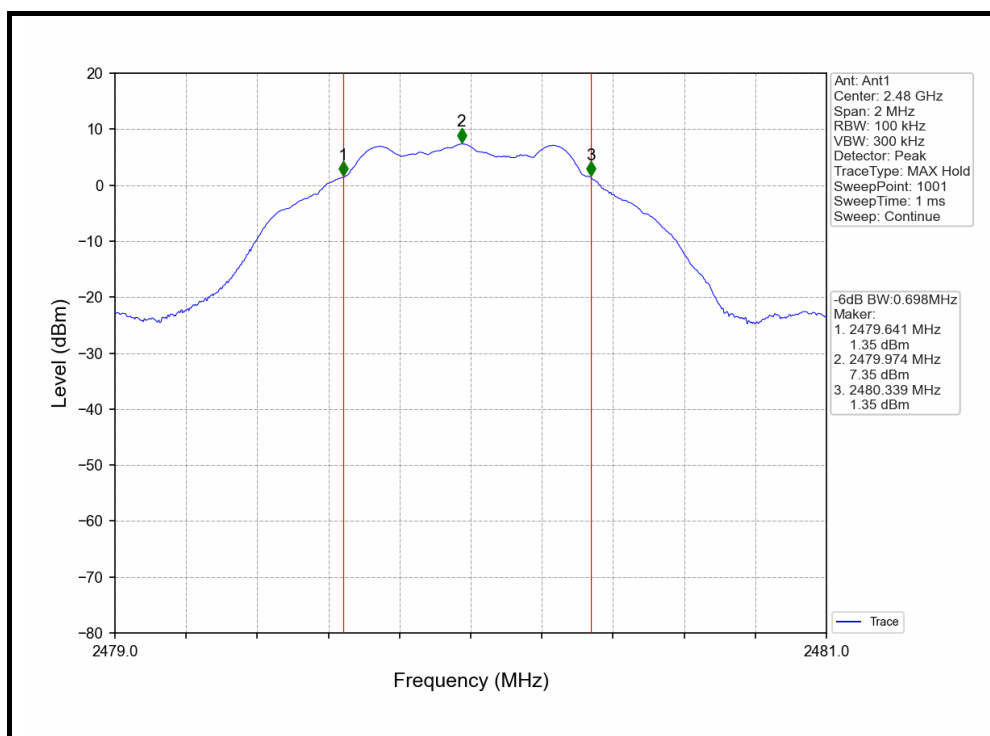


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VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (1MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.698	0.5	PASS
19	2440	0.691	0.5	PASS
39	2480	0.698	0.5	PASS



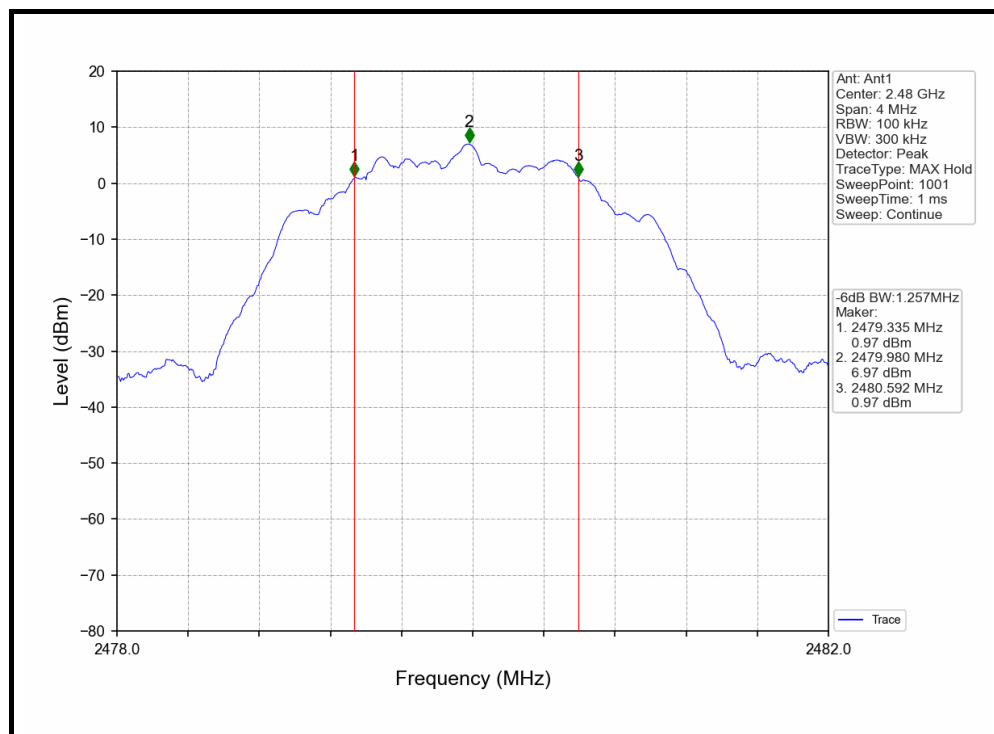


BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.242	0.5	PASS
19	2440	1.248	0.5	PASS
39	2480	1.257	0.5	PASS



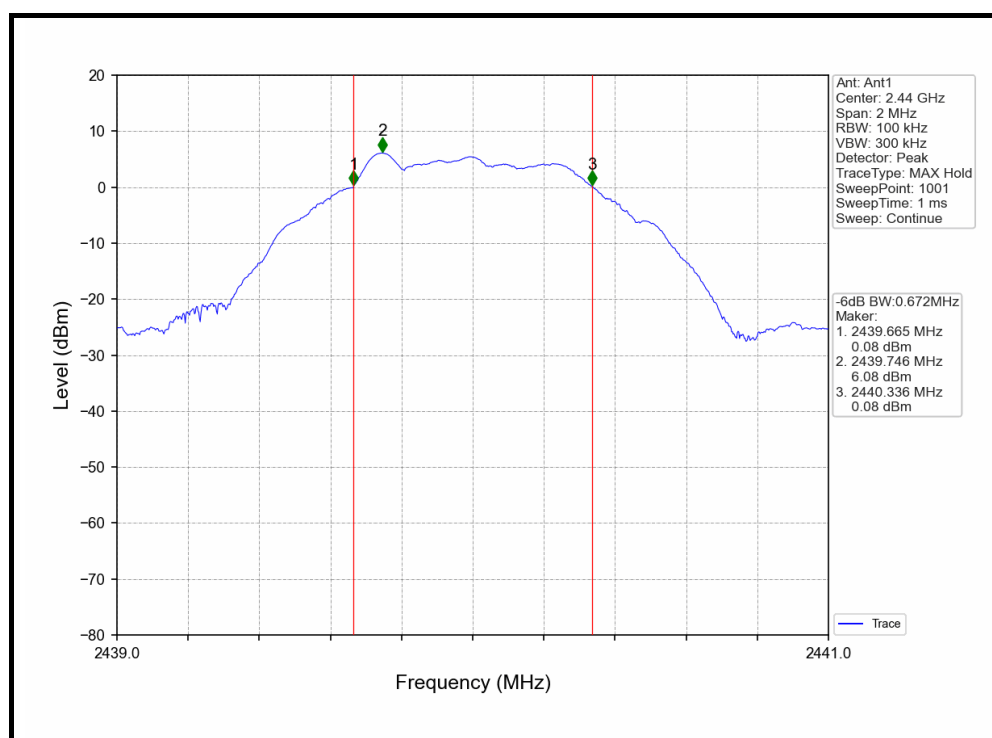


BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.671	0.5	PASS
19	2440	0.672	0.5	PASS
39	2480	0.669	0.5	PASS



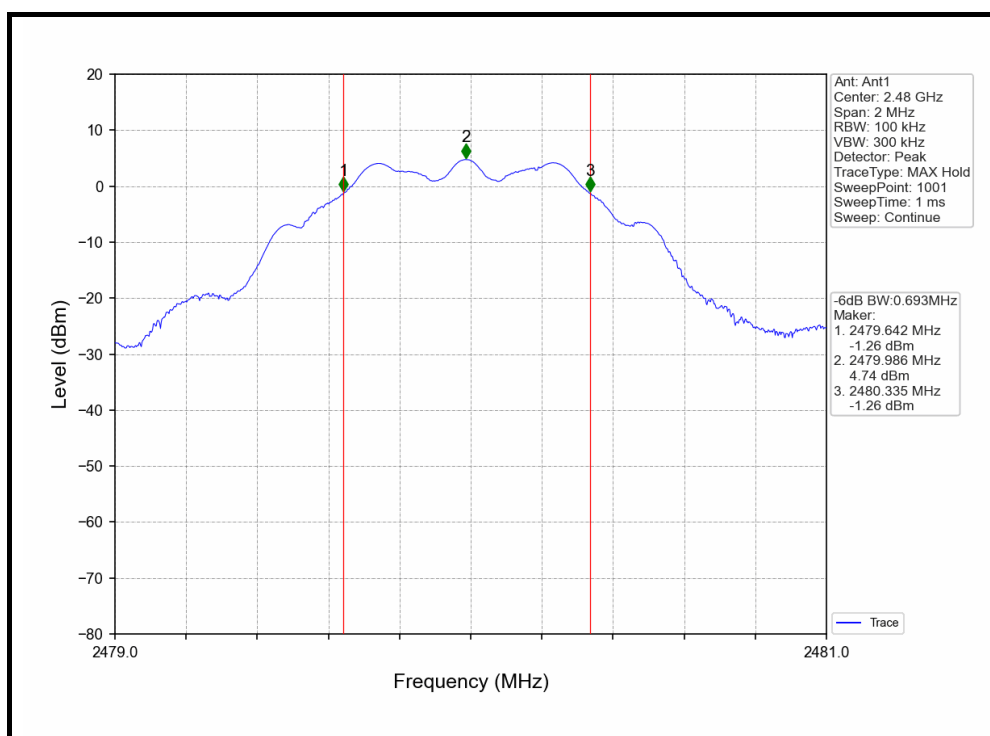


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VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.688	0.5	PASS
19	2440	0.691	0.5	PASS
39	2480	0.693	0.5	PASS



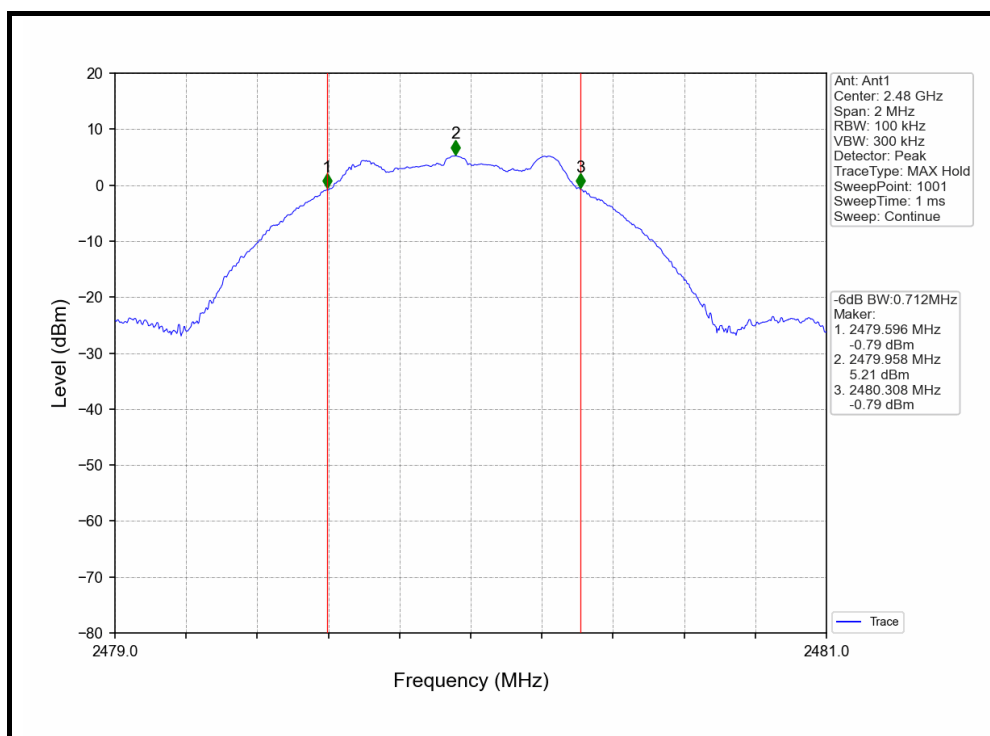


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Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (1MHz)

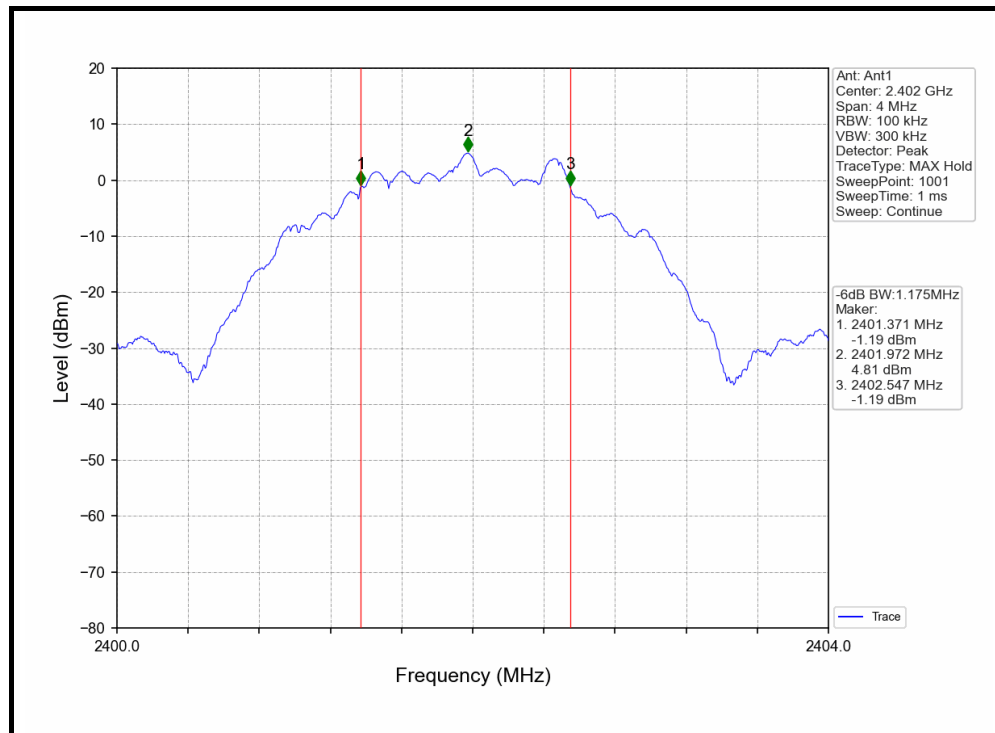
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.693	0.5	PASS
19	2440	0.708	0.5	PASS
39	2480	0.712	0.5	PASS





2SECEND-BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.175	0.5	PASS
19	2440	1.147	0.5	PASS
39	2480	1.142	0.5	PASS



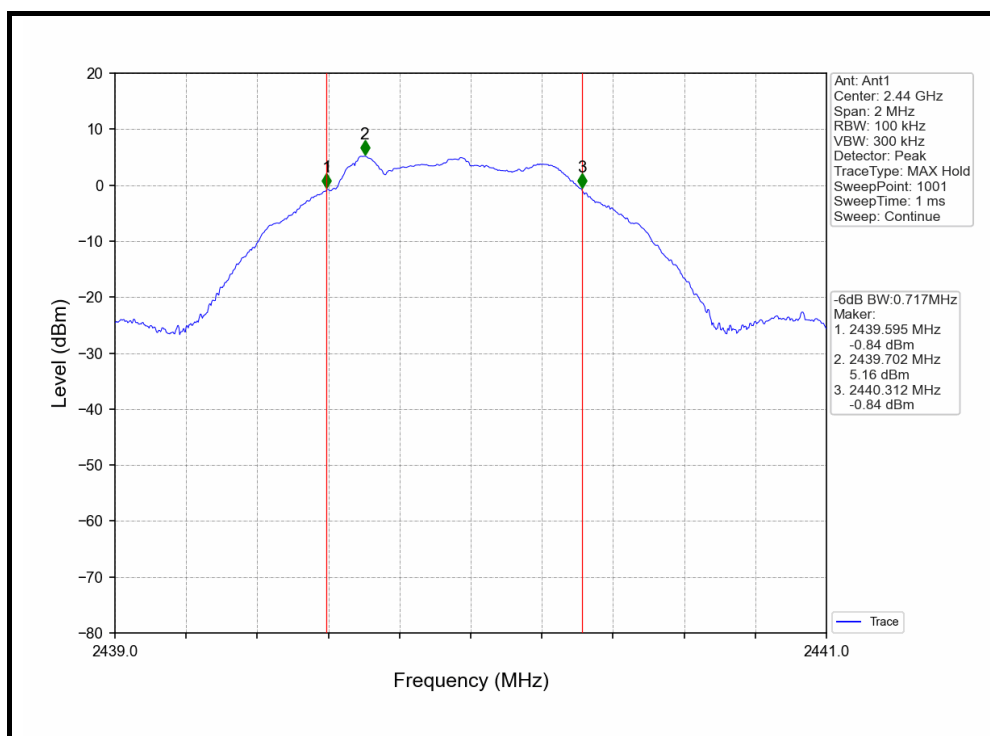


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Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.704	0.5	PASS
19	2440	0.717	0.5	PASS
39	2480	0.711	0.5	PASS



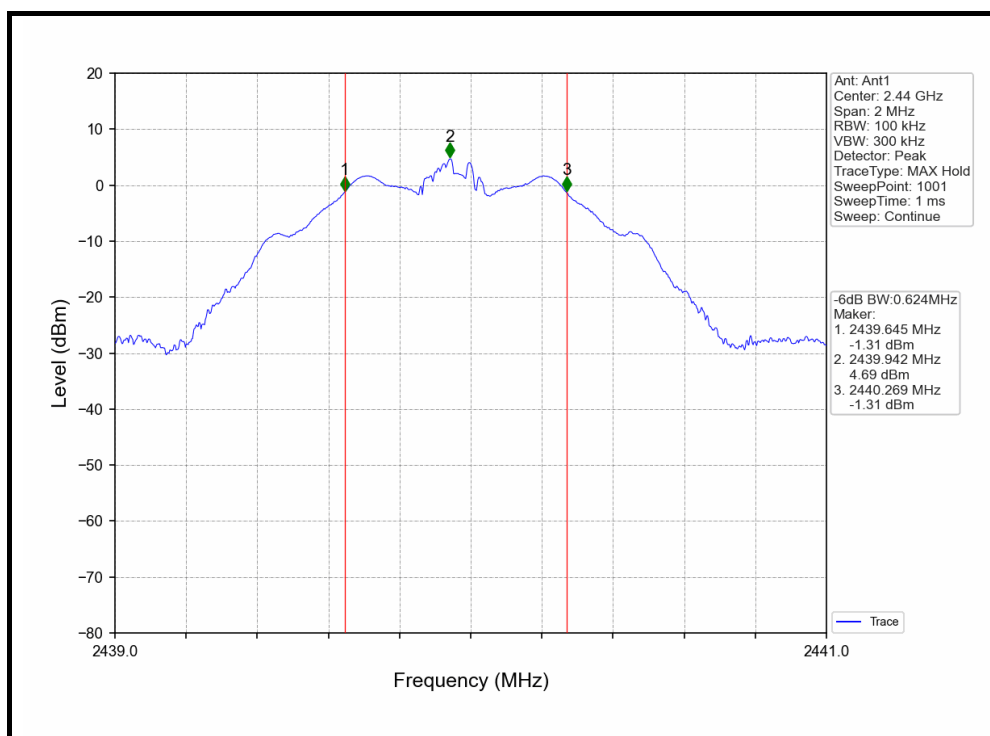


BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.618	0.5	PASS
19	2440	0.624	0.5	PASS
39	2480	0.616	0.5	PASS



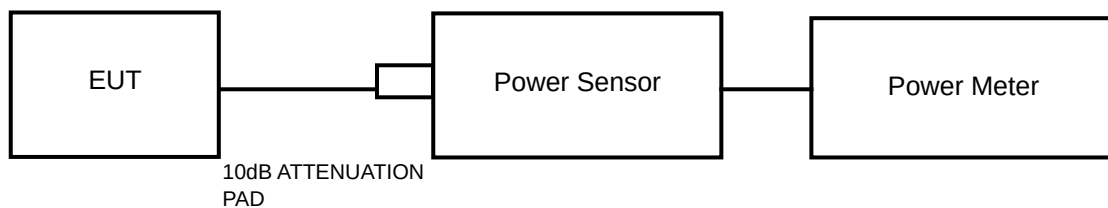


3.4 CONDUCTED OUTPUT POWER

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

ANT 0

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	21.85	153.11	1	PASS
6	2437	21.16	130.62	1	PASS
11	2462	21.91	155.24	1	PASS

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	20.58	114.29	1	PASS
6	2437	21.32	135.52	1	PASS
11	2462	20.43	110.41	1	PASS

**802.11g****ANT 0**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	23.82	240.99	1	PASS
6	2437	23.91	246.04	1	PASS
11	2462	24.90	309.03	1	PASS

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	25.02	317.69	1	PASS
6	2437	25.74	374.97	1	PASS
11	2462	25.87	386.37	1	PASS

**802.11n (20MHz)****ANT 0**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	24.01	251.77	1	PASS
6	2437	23.84	242.10	1	PASS
11	2462	25.08	322.11	1	PASS

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	25.52	356.45	1	PASS
6	2437	25.61	363.92	1	PASS
11	2462	25.67	368.98	1	PASS



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Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

ANT 0

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	23.07	202.77	1	PASS
6	2437	23.52	224.91	1	PASS
11	2462	24.06	254.68	1	PASS

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	23.91	246.04	1	PASS
6	2437	24.13	258.82	1	PASS
11	2462	24.01	251.77	1	PASS

ANT 0+1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER ANT0 (dBm)	PEAK POWER ANT1 (dBm)	PEAK POWER ANT0+1 (dBm)	PEAK POWER ANT0+1 (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	20.38	23.90	25.50	354.81	1	PASS
6	2437	19.55	22.18	24.07	255.27	1	PASS
11	2462	20.51	22.14	24.41	276.06	1	PASS

**BT-LE (1MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	5.02	3.18	1	PASS
19	2440	4.53	2.84	1	PASS
39	2480	6.23	4.20	1	PASS

BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	5.24	3.34	1	PASS
19	2440	4.79	3.01	1	PASS
39	2480	6.39	4.36	1	PASS

BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.82	3.03	1	PASS
19	2440	4.31	2.70	1	PASS
39	2480	5.96	3.94	1	PASS

BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	4.86	3.06	1	PASS
19	2440	4.26	2.67	1	PASS
39	2480	6.01	3.99	1	PASS



BUREAU VERITAS Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (1MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	5.08	3.22	1	PASS
19	2440	5.35	3.43	1	PASS
39	2480	5.46	3.52	1	PASS

2SECEND-BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	5.11	3.24	1	PASS
19	2440	5.35	3.43	1	PASS
39	2480	5.48	3.53	1	PASS

2SECEND-BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	5.11	3.24	1	PASS
19	2440	5.36	3.44	1	PASS
39	2480	5.48	3.53	1	PASS

2SECEND-BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	5.12	3.25	1	PASS
19	2440	5.36	3.44	1	PASS
39	2480	5.49	3.54	1	PASS

**3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)**

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

802.11b**ANT 0**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	19.08	N/A
6	2437	18.71	N/A
11	2462	18.81	N/A

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	17.71	N/A
6	2437	18.40	N/A
11	2462	17.72	N/A



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Test Report No.: W7L-P21080021RF08

802.11g

ANT 0

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	16.62	N/A
6	2437	17.06	N/A
11	2462	16.84	N/A

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	16.04	N/A
6	2437	16.23	N/A
11	2462	16.20	N/A



802.11n (20MHz)

ANT 0

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	16.52	N/A
6	2437	17.05	N/A
11	2462	17.68	N/A

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	15.73	N/A
6	2437	16.19	N/A
11	2462	16.23	N/A



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VERITAS**

Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

ANT 0

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	13.47	N/A
6	2437	13.88	N/A
11	2462	13.41	N/A

ANT 1

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	12.51	N/A
6	2437	12.93	N/A
11	2462	12.92	N/A

ANT 0+1

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	AVERAGE POWER ANT0+1 (dBm)	PASS/FAIL
1	2412	9.34	11.05	13.29	N/A
6	2437	8.81	11.61	13.44	N/A
11	2462	9.70	11.49	13.70	N/A

**BT-LE (1MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	2.00	N/A
19	2440	1.44	N/A
39	2480	3.16	N/A

BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	-0.82	N/A
19	2440	-1.16	N/A
39	2480	0.62	N/A

BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	1.62	N/A
19	2440	1.32	N/A
39	2480	3.21	N/A

BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	3.26	N/A
19	2440	2.74	N/A
39	2480	4.44	N/A

**2SECEND-BT-LE (1MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	4.35	N/A
19	2440	4.80	N/A
39	2480	4.91	N/A

2SECEND-BT-LE (2MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	3.13	N/A
19	2440	3.41	N/A
39	2480	3.52	N/A

2SECEND-BT-LE (S2)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	4.54	N/A
19	2440	5.12	N/A
39	2480	5.27	N/A

2SECEND-BT-LE (S8)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	4.97	N/A
19	2440	5.24	N/A
39	2480	5.36	N/A

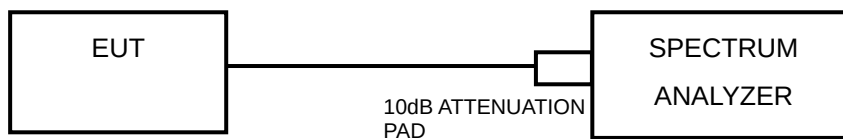


3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

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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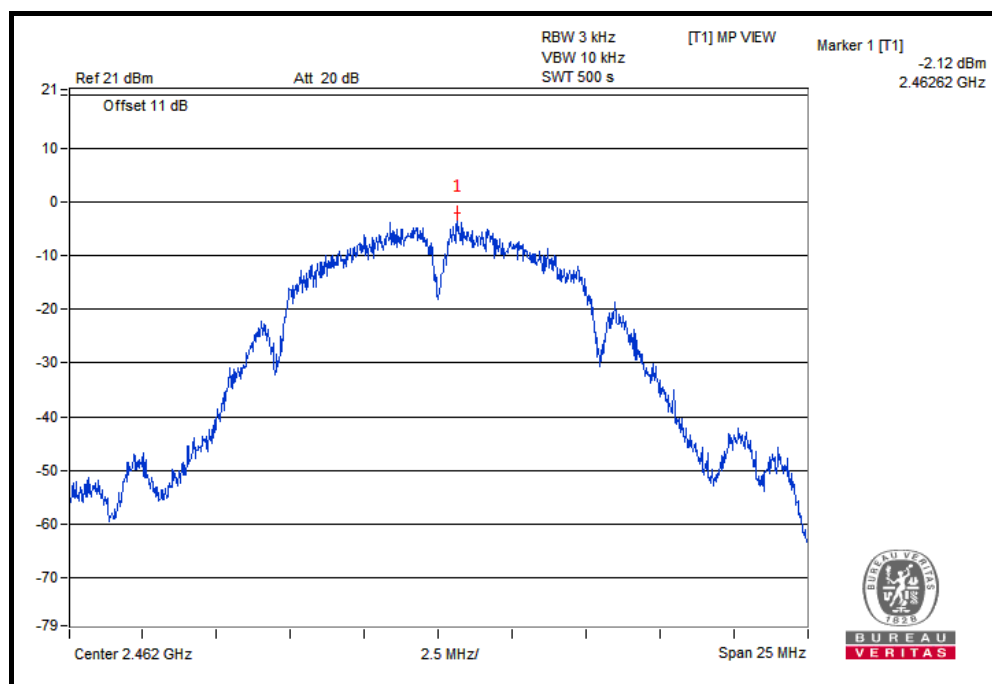
Test Report No.: W7L-P21080021RF08

3.5.7 TEST RESULTS

802.11b

ANT0

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-4.64	8	PASS
6	2437	-4.05	8	PASS
11	2462	-2.12	8	PASS



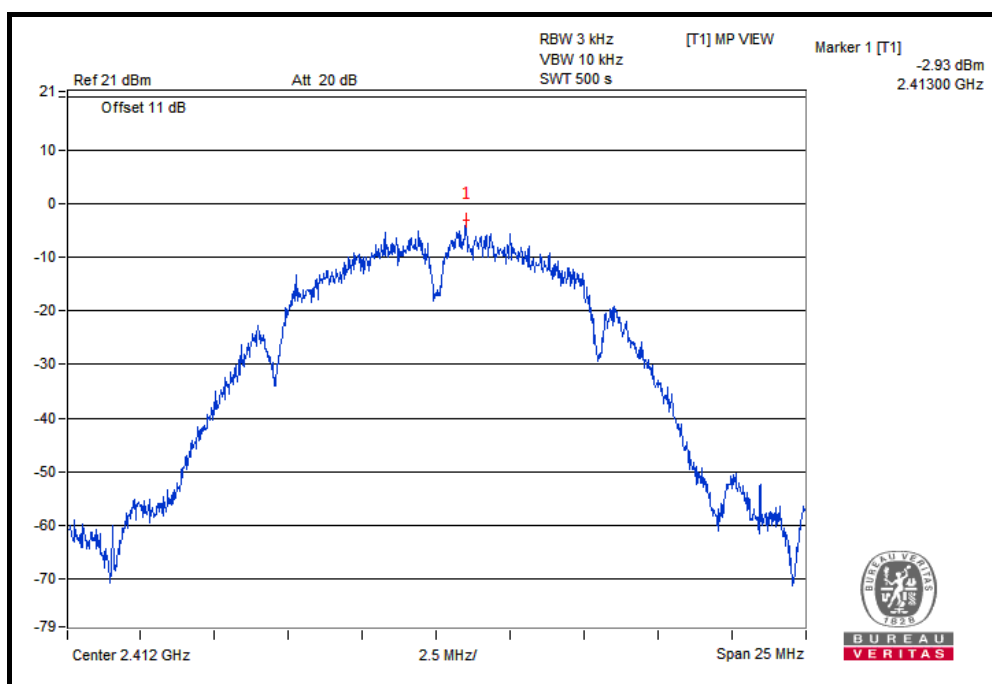


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Test Report No.: W7L-P21080021RF08

ANT1

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-2.93	8	PASS
6	2437	-3.12	8	PASS
11	2462	-3.87	8	PASS





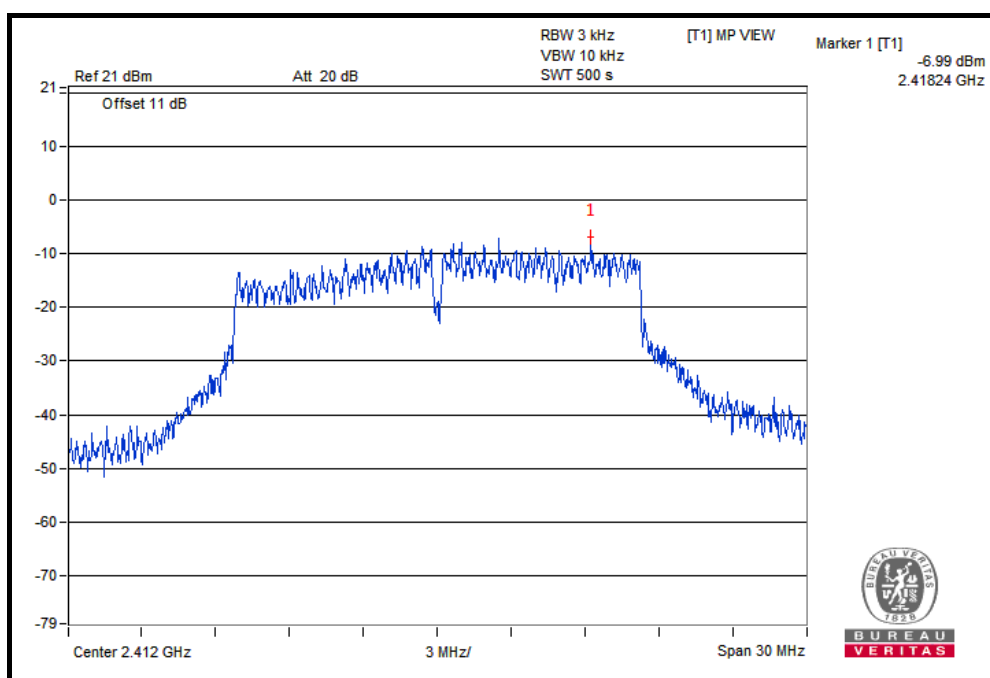
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Test Report No.: W7L-P21080021RF08

802.11g

ANT 0

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-6.99	8	PASS
6	2437	-8.00	8	PASS
11	2462	-7.70	8	PASS



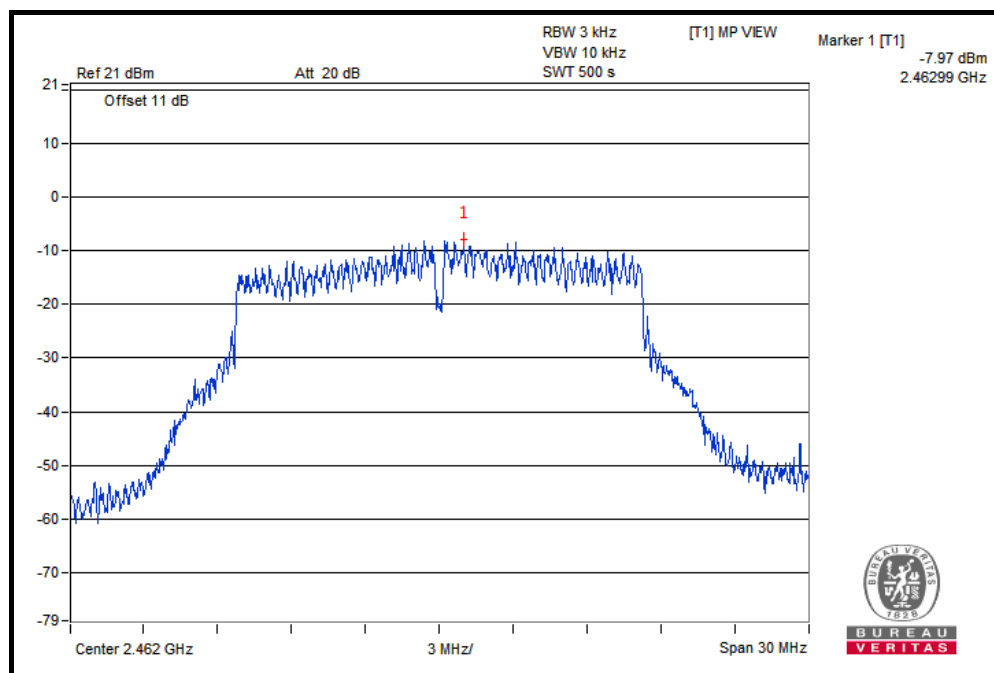


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Test Report No.: W7L-P21080021RF08

ANT 1

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-8.02	8	PASS
6	2437	-8.74	8	PASS
11	2462	-7.97	8	PASS





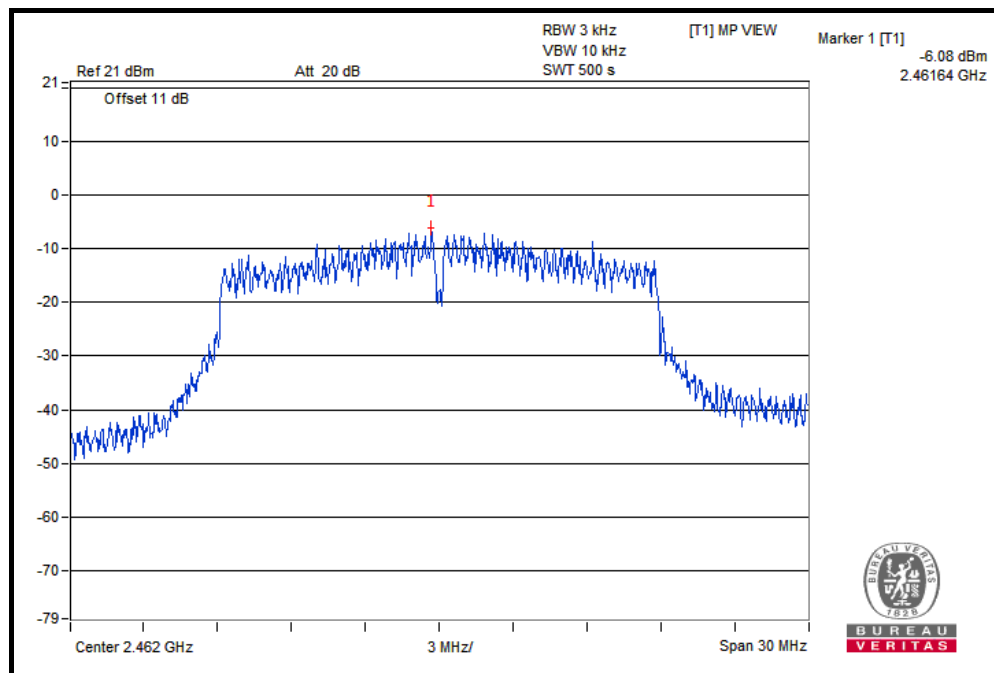
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Test Report No.: W7L-P21080021RF08

802.11n (20MHz)

ANT 0

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-8.28	8	PASS
6	2437	-7.71	8	PASS
11	2462	-6.08	8	PASS



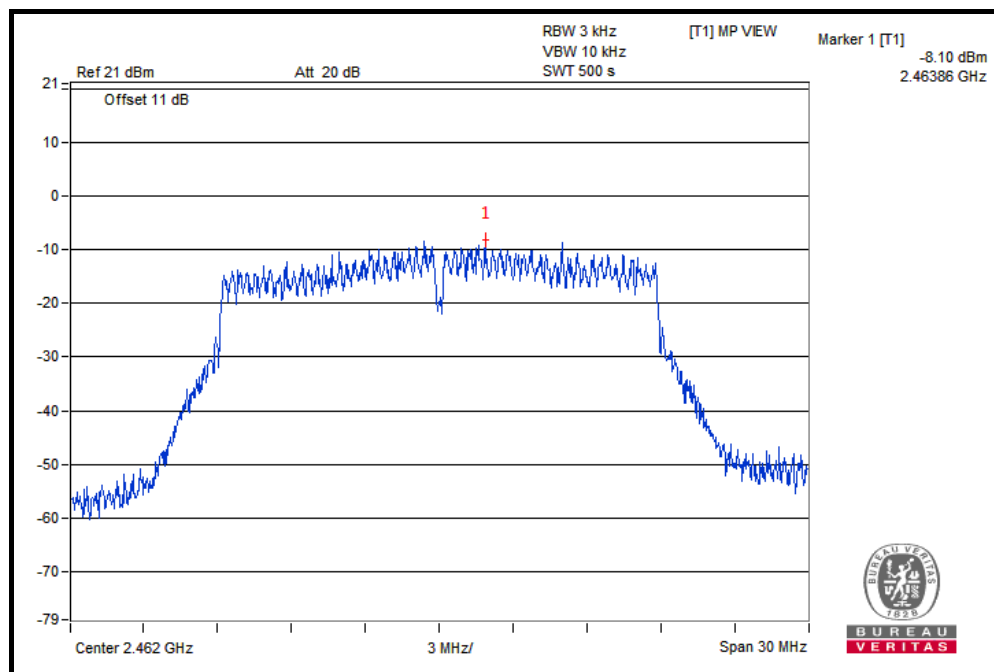


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Test Report No.: W7L-P21080021RF08

ANT 1

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-8.66	8	PASS
6	2437	-8.97	8	PASS
11	2462	-8.10	8	PASS





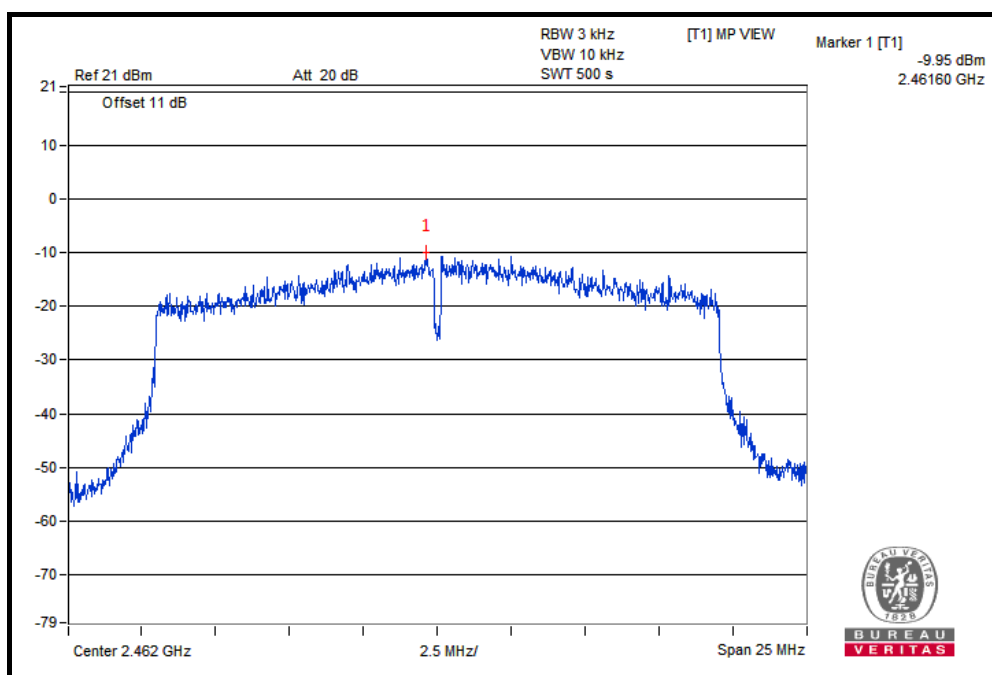
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Test Report No.: W7L-P21080021RF08

802.11ax (20MHz)

ANT 0

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-10.06	8	PASS
6	2437	-11.32	8	PASS
11	2462	-9.95	8	PASS



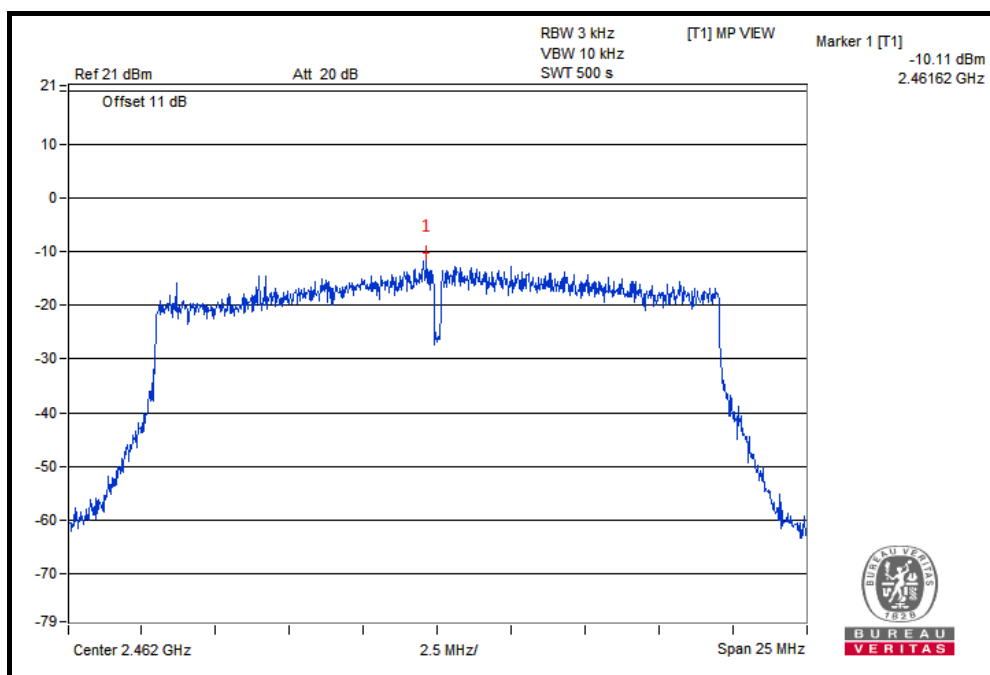


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Test Report No.: W7L-P21080021RF08

ANT 1

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.17	8	PASS
6	2437	-12.19	8	PASS
11	2462	-10.11	8	PASS



MIMO

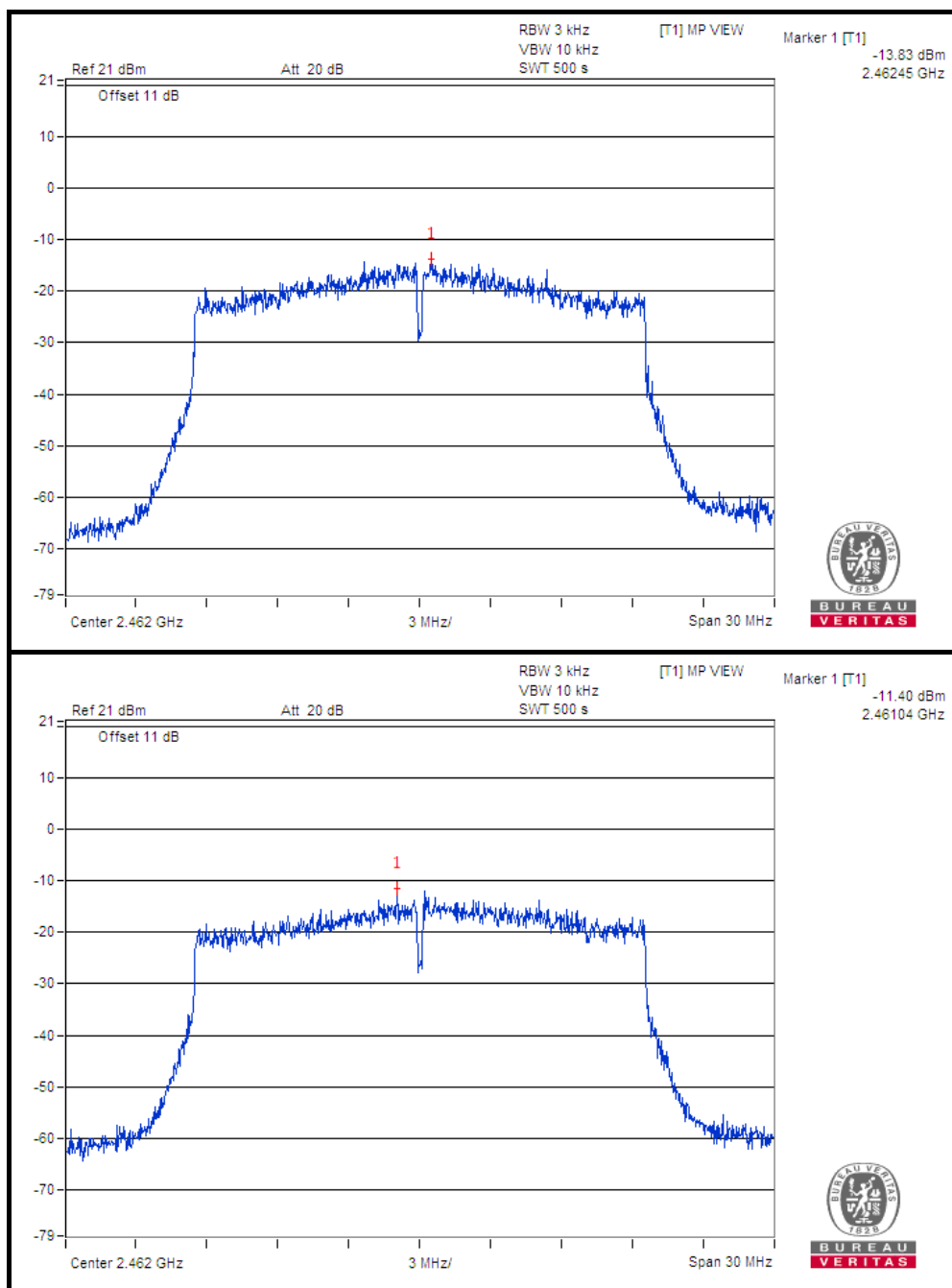
802.11ax (20MHz)

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-15.32	-12.73	-10.82	8	PASS
6	2437	-15.17	-12.09	-10.35	8	PASS
11	2462	-13.83	-11.40	-9.44	8	PASS



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Test Report No.: W7L-P21080021RF08



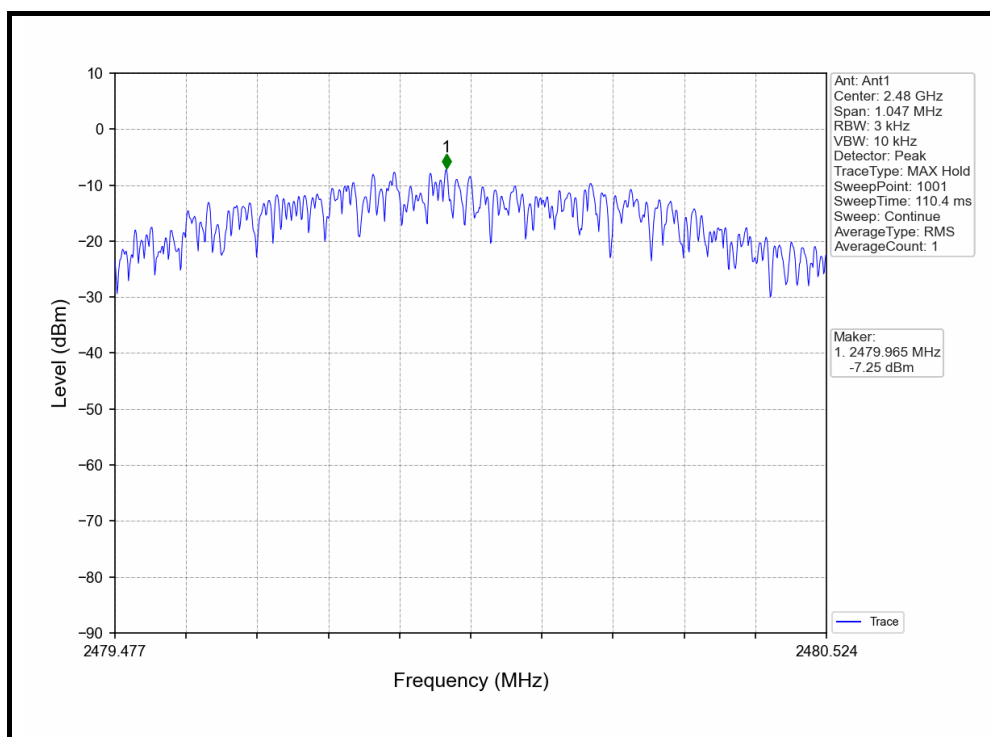


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VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (1MHz)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-8.27	8	PASS
19	2440	-9.01	8	PASS
39	2480	-7.25	8	PASS



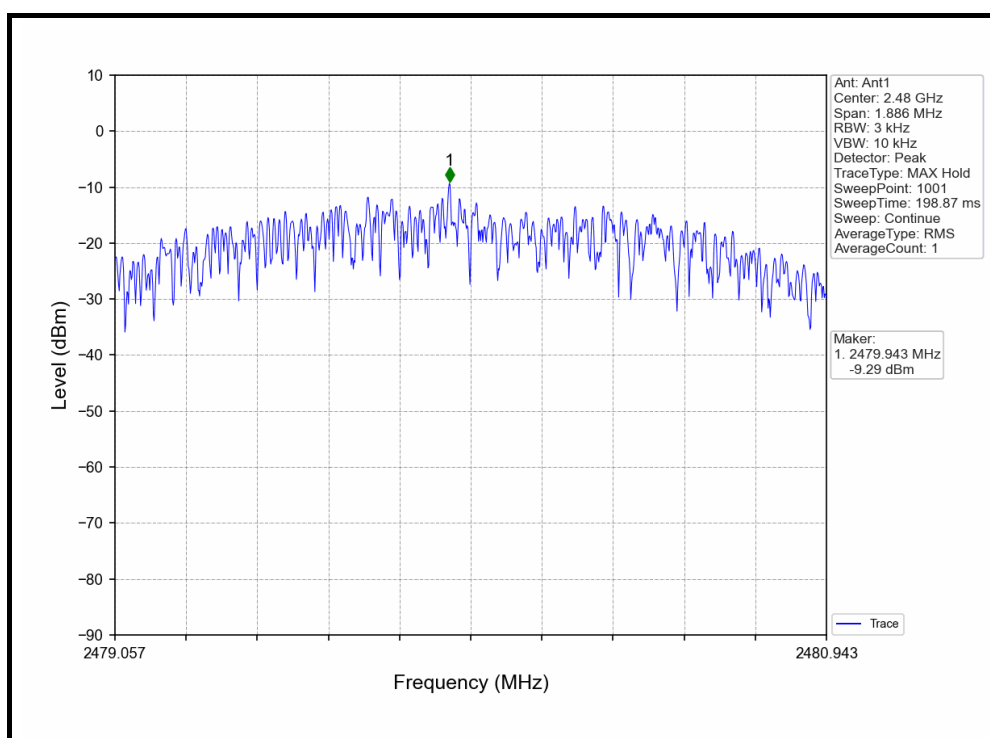


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VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (2MHz)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-10.35	8	PASS
19	2440	-11.06	8	PASS
39	2480	-9.29	8	PASS



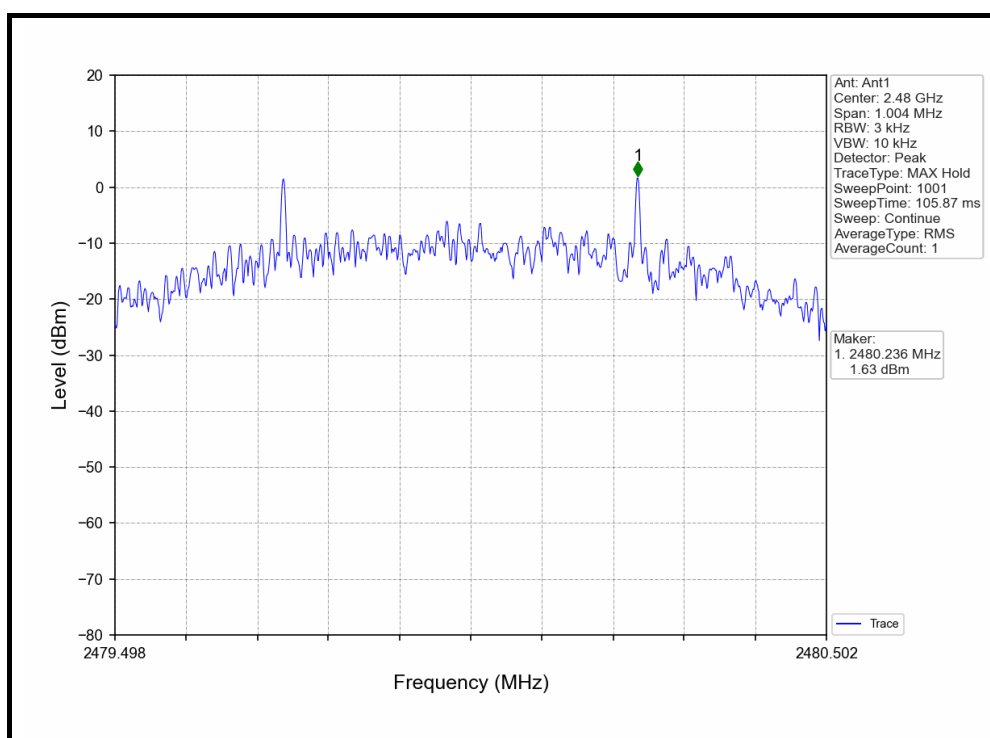


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VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (S2)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	0.70	8	PASS
19	2440	-0.12	8	PASS
39	2480	1.63	8	PASS



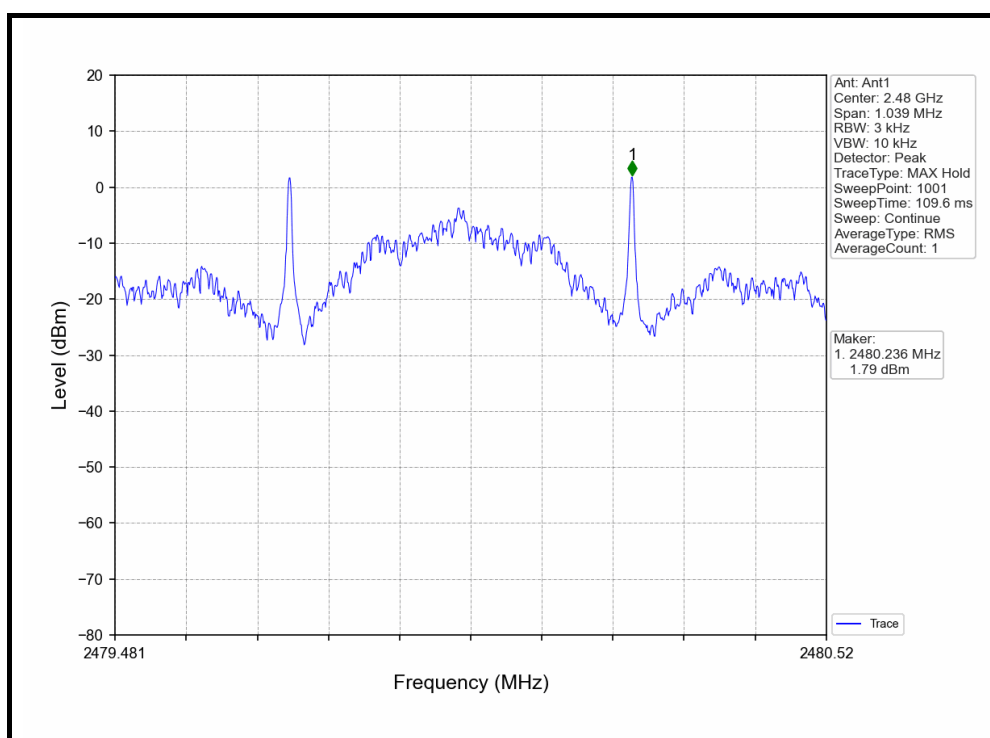


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VERITAS

Test Report No.: W7L-P21080021RF08

BT-LE (S8)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	0.82	8	PASS
19	2440	0.03	8	PASS
39	2480	1.79	8	PASS



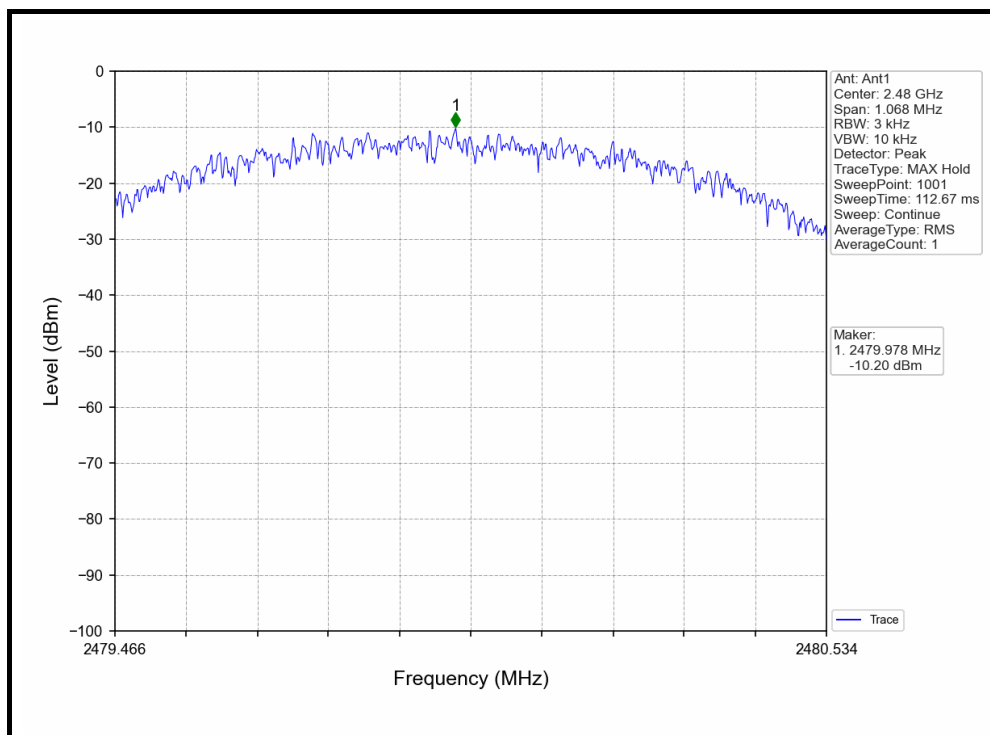


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VERITAS

Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (1MHz)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-10.73	8	PASS
19	2440	-10.66	8	PASS
39	2480	-10.20	8	PASS



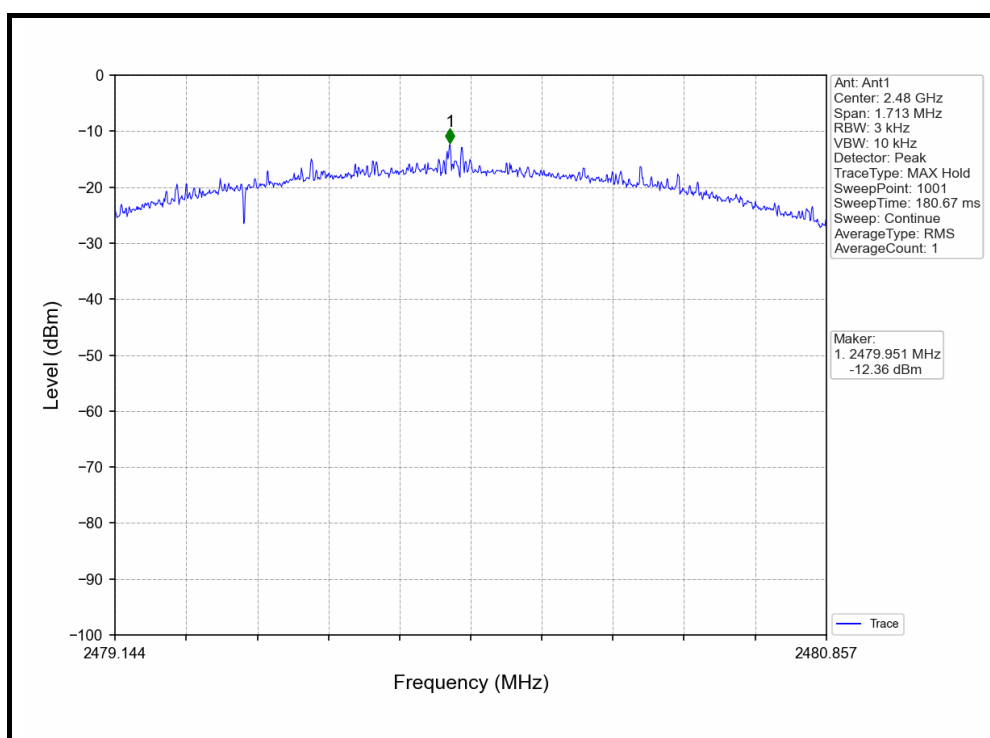


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Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (2MHz)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-12.65	8	PASS
19	2440	-12.50	8	PASS
39	2480	-12.36	8	PASS



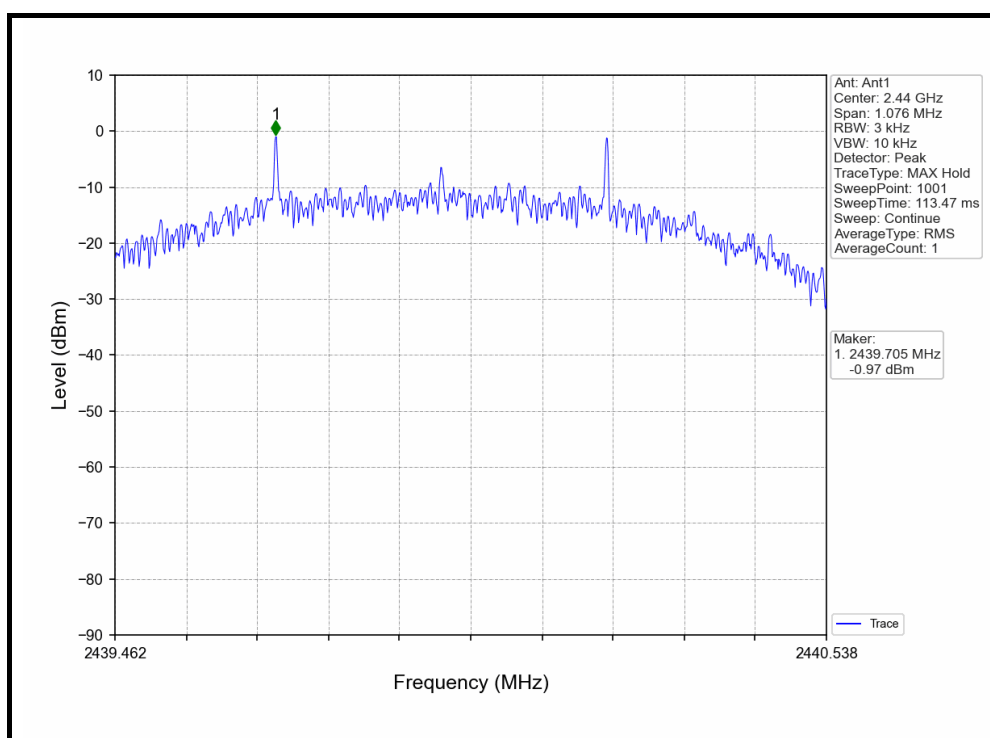


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VERITAS

Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (S2)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-1.31	8	PASS
19	2440	-0.97	8	PASS
39	2480	-1.00	8	PASS



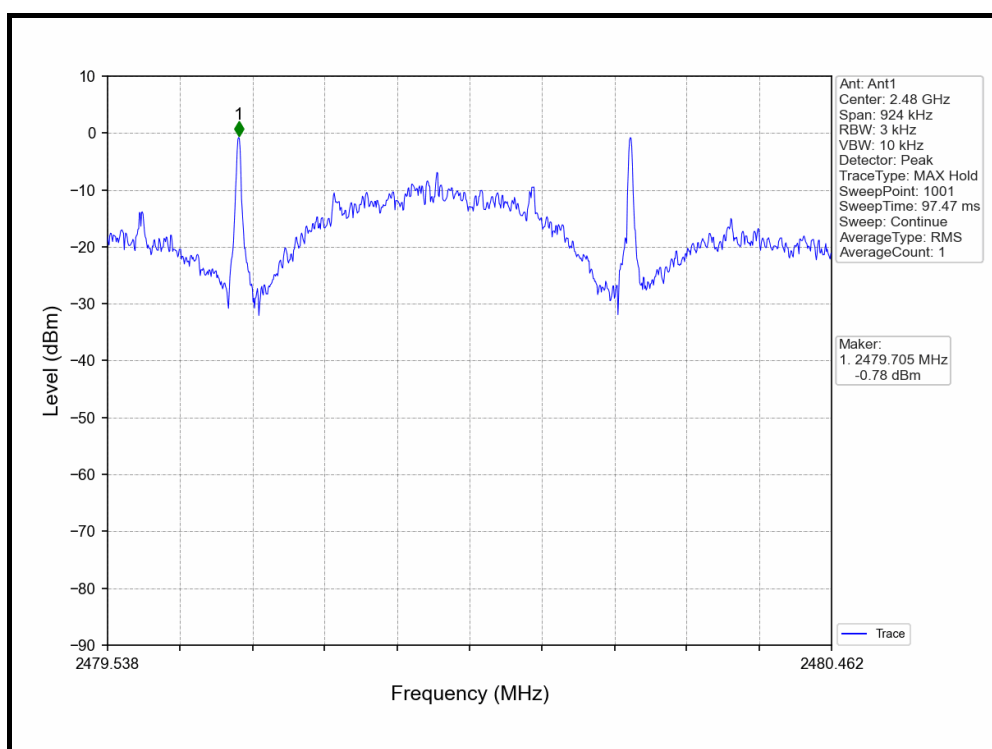


BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

2SECEND-BT-LE (S8)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-1.16	8	PASS
19	2440	-0.82	8	PASS
39	2480	-0.78	8	PASS



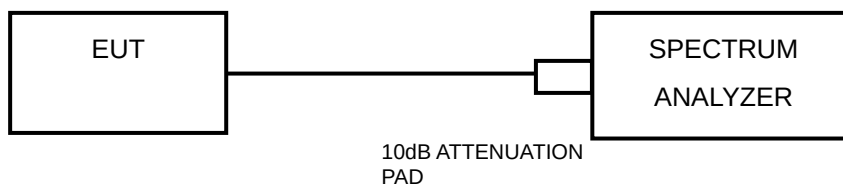


3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

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

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.



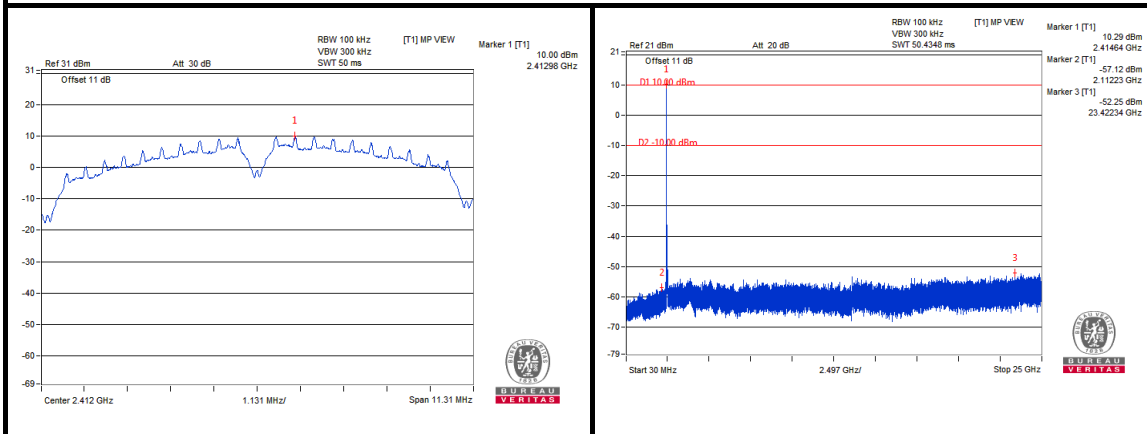
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VERITAS

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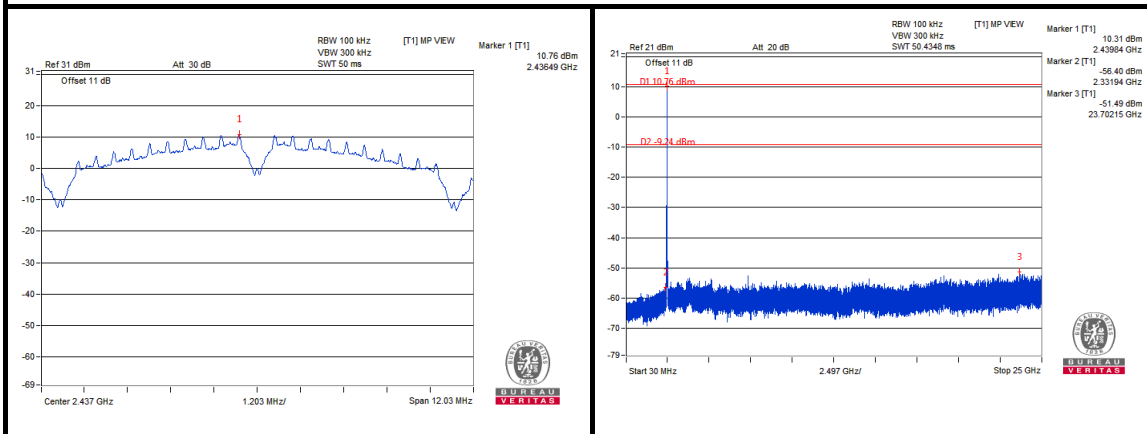
802.11b

ANT 0

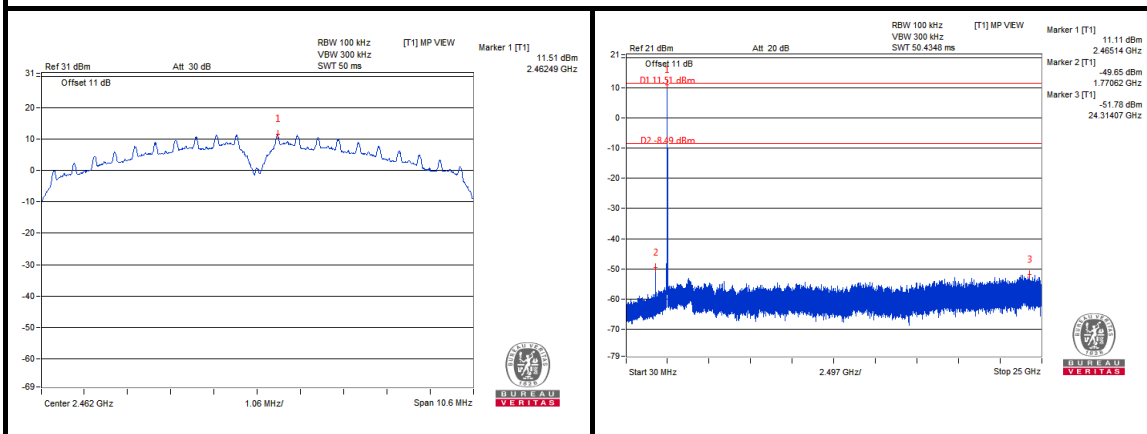
CH 1



CH 6



CH 11

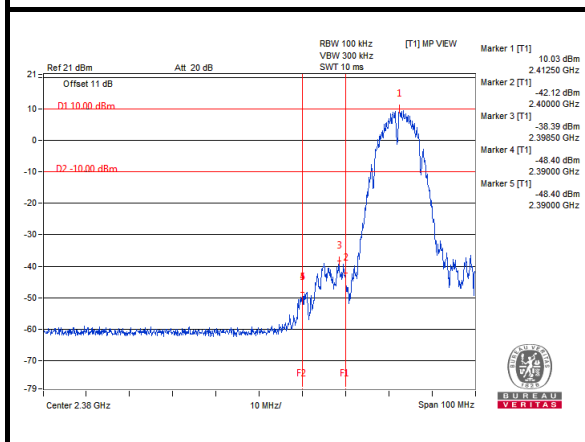




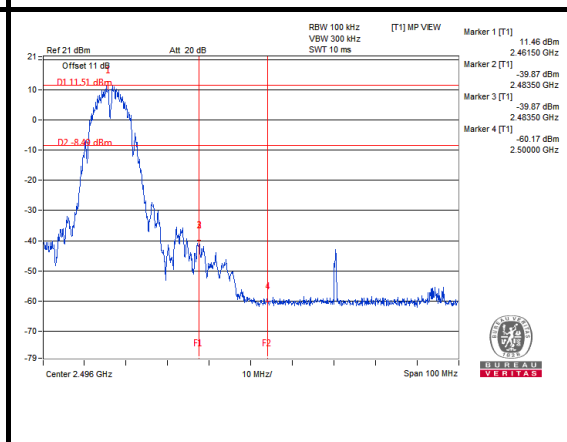
BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

CH 1 Band Edge



CH 11 Band Edge



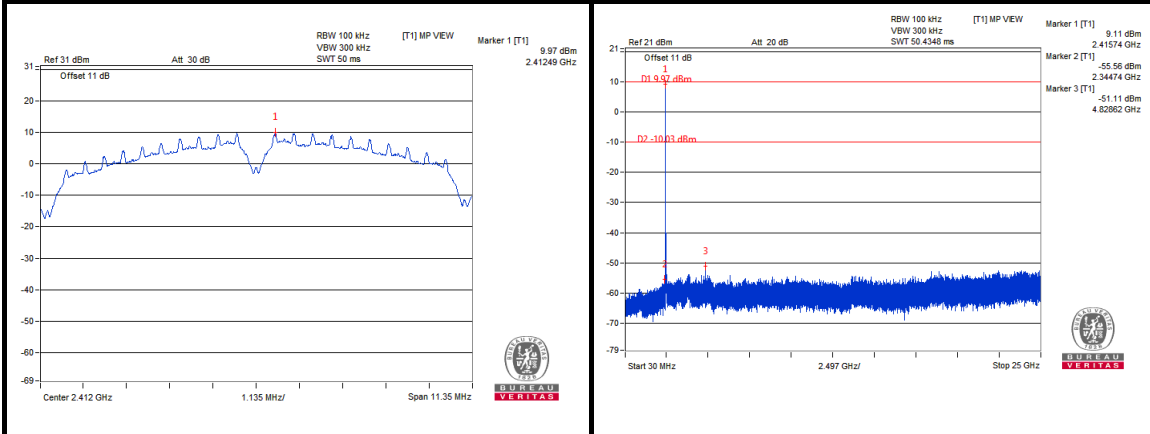


BUREAU
VERITAS

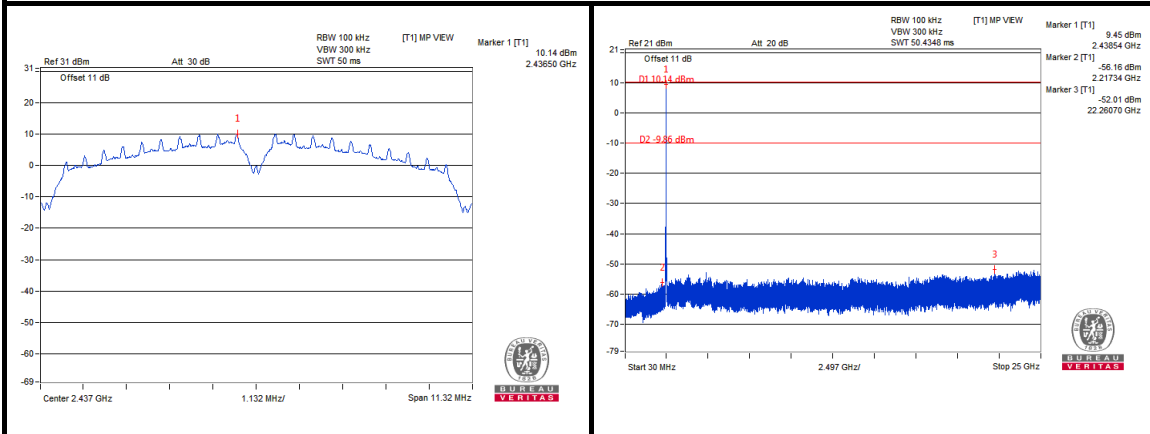
Test Report No.: W7L-P21080021RF08

ANT 1

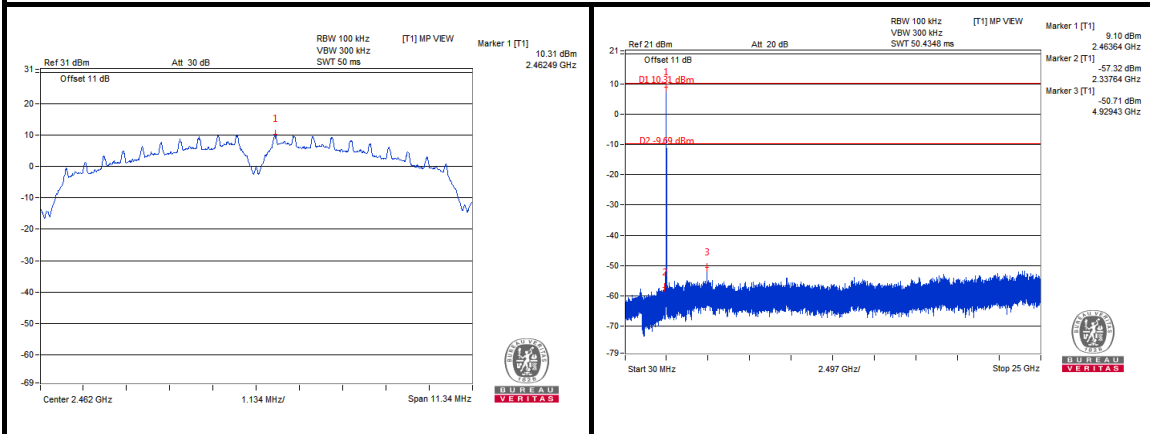
CH 1



CH 6



CH 11

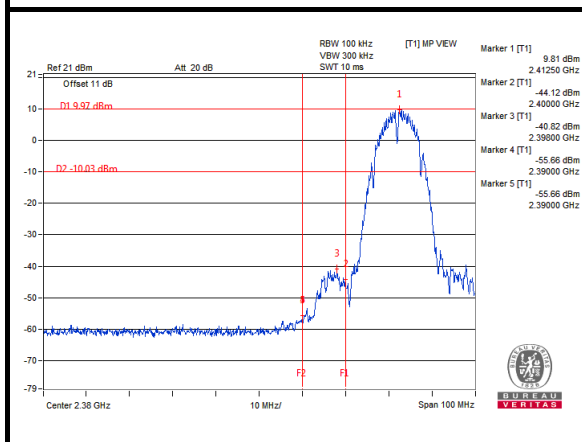




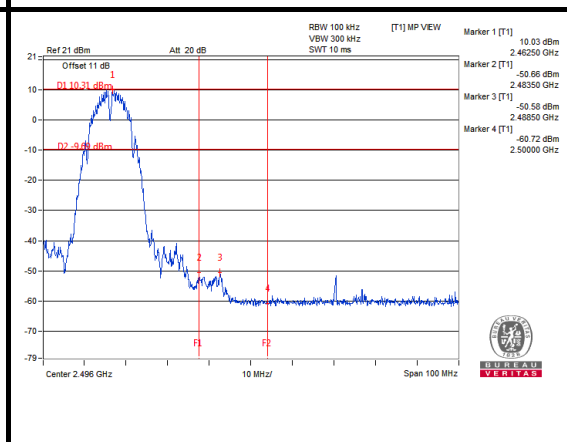
BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

CH 1 Band Edge



CH 11 Band Edge



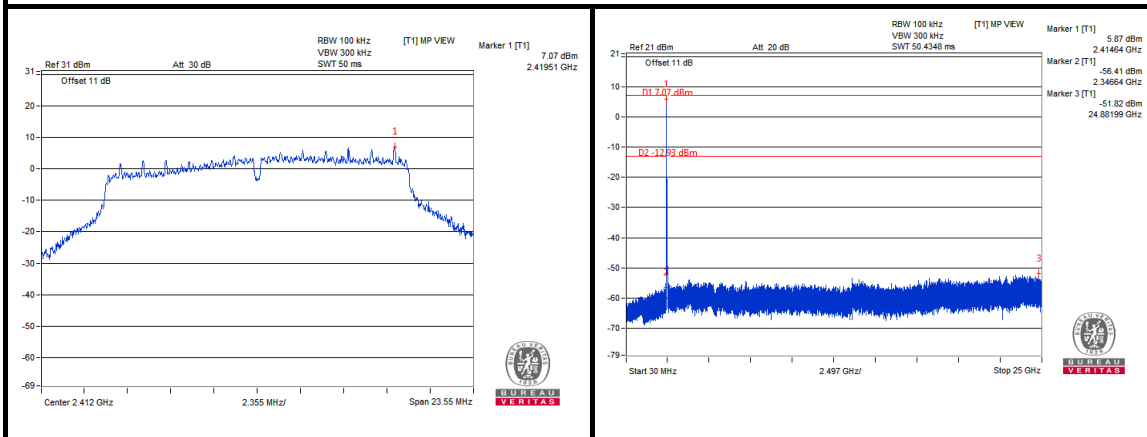


BUREAU
VERITAS

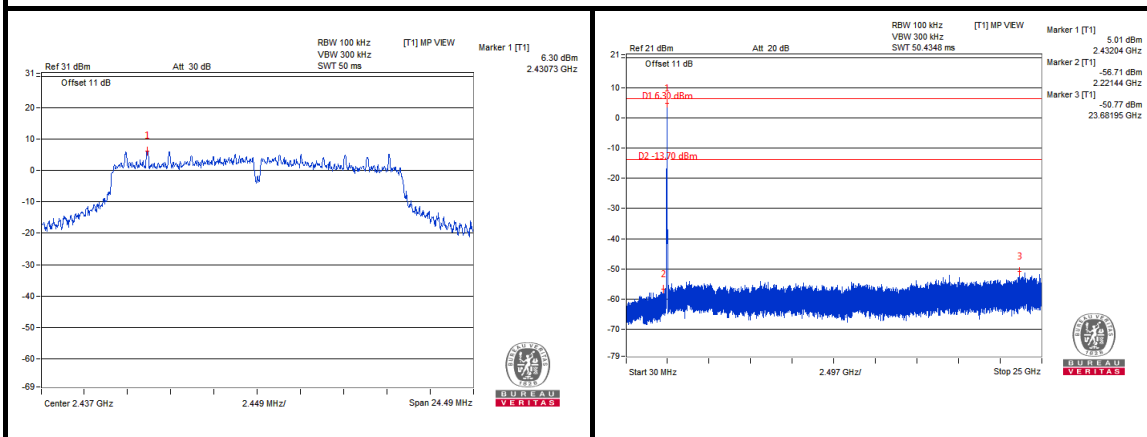
Test Report No.: W7L-P21080021RF08

802.11g
ANT 0

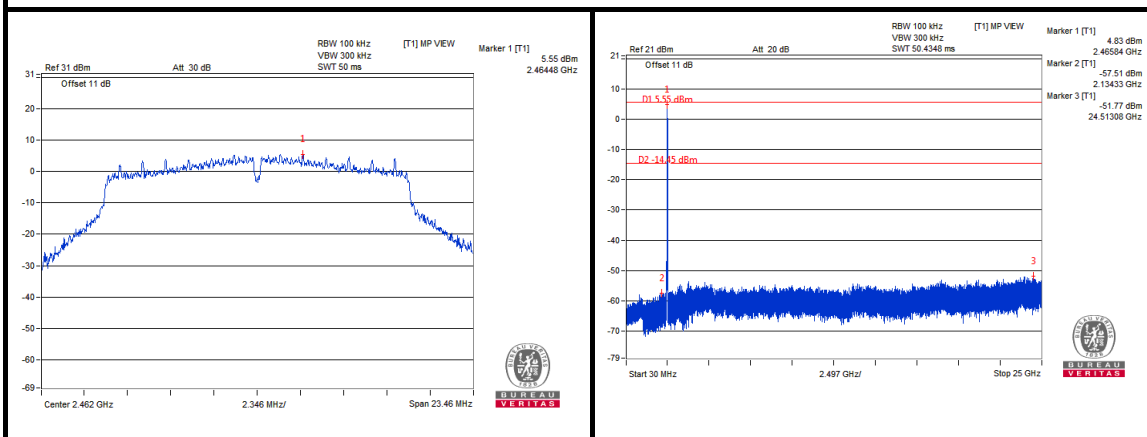
CH 1



CH 6



CH 11

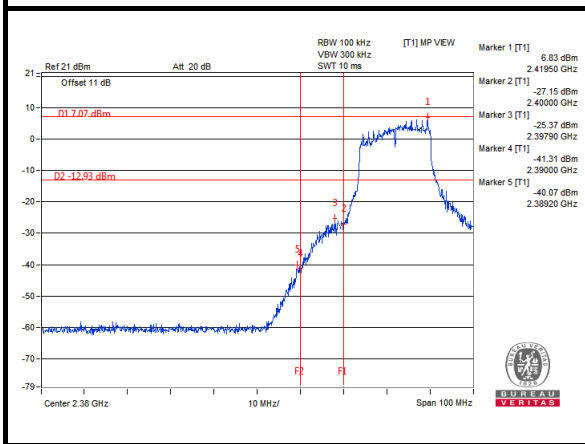




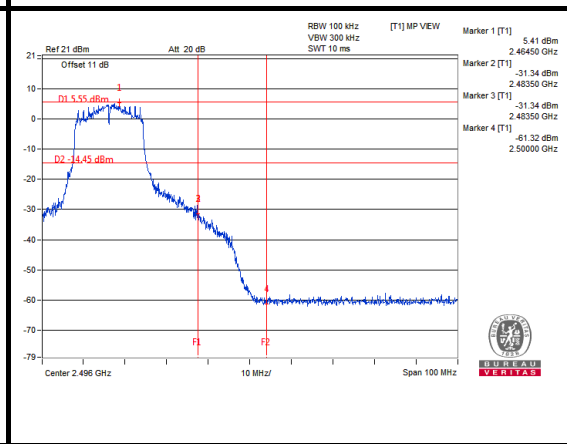
BUREAU
VERITAS

Test Report No.: W7L-P21080021RF08

CH 1 Band Edge



CH 11 Band Edge



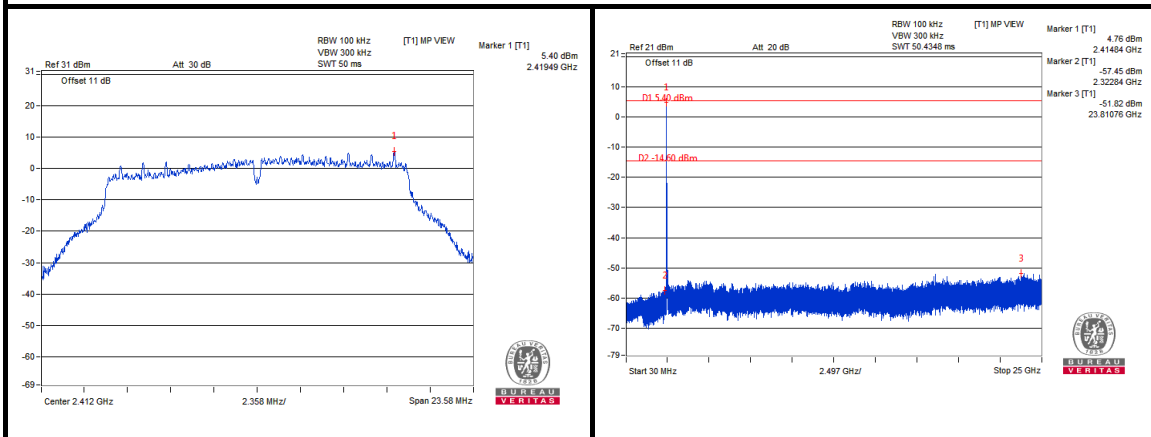


BUREAU
VERITAS

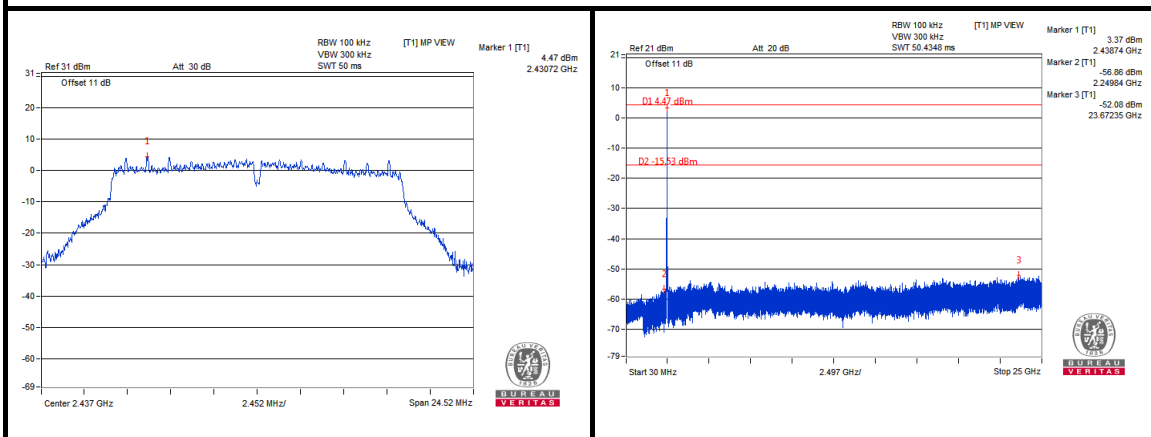
Test Report No.: W7L-P21080021RF08

ANT 1

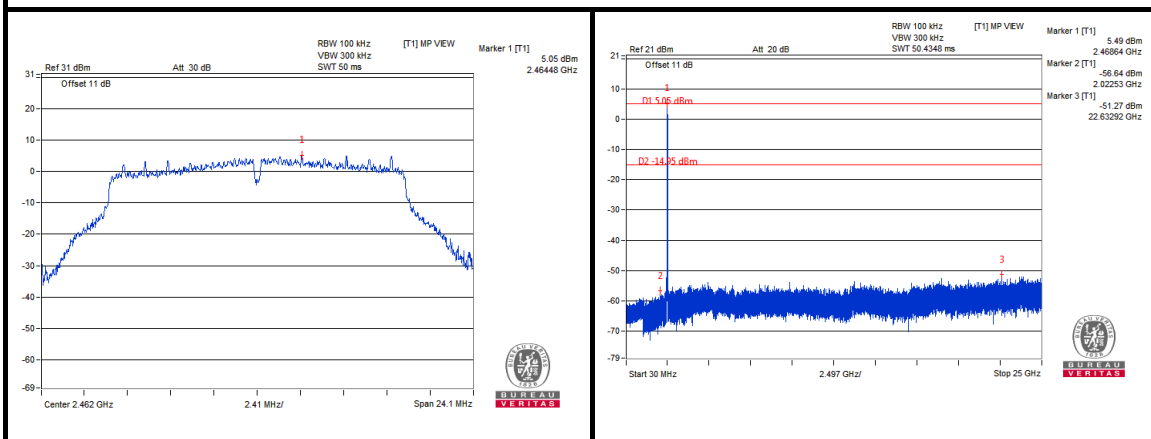
CH 1



CH 6



CH 11

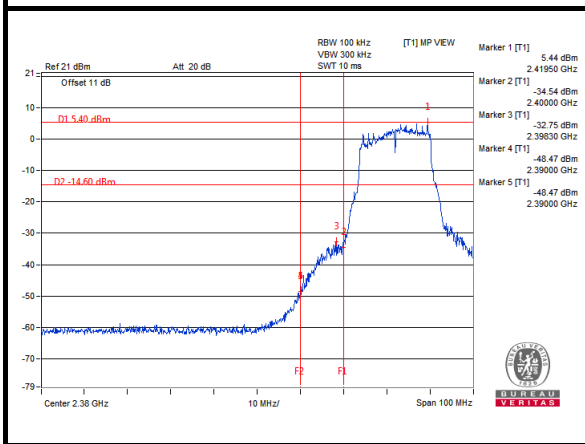




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VERITAS

Test Report No.: W7L-P21080021RF08

CH 1 Band Edge



CH 11 Band Edge

