



**BUREAU
VERITAS**

Test Report No.: W7L-P24100002RF03

802.11n (40MHz)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	51.33	52.55	74.00	-22.67	34.20	11.17	46.59	100	350	Peak
5150	47.37	48.59	54.00	-6.63	34.20	11.17	46.59	100	350	Average
5190	97.92	99.01	/	/	34.28	11.21	46.58	100	350	Peak
5190	92.27	93.36	/	/	34.28	11.21	46.58	100	350	Average
5350	52.81	53.66	74.00	-21.19	34.30	11.39	46.54	100	350	Peak
5350	46.32	47.17	54.00	-7.68	34.30	11.39	46.54	100	350	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
5150	52.37	53.79	74.00	-21.63	34.00	11.17	46.59	100	255	Peak
5150	46.04	47.46	54.00	-7.96	34.00	11.17	46.59	100	255	Average
5190	90.37	91.82	/	/	33.92	11.21	46.58	100	255	Peak
5190	82.34	83.79	/	/	33.92	11.21	46.58	100	255	Average
5350	52.02	52.37	74.00	-21.98	34.80	11.39	46.54	100	255	Peak
5350	46.81	47.16	54.00	-7.19	34.80	11.39	46.54	100	255	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	52.20	53.42	74.00	-21.80	34.20	11.17	46.59	100	350	Peak
5150	46.51	47.73	54.00	-7.49	34.20	11.17	46.59	100	350	Average
5230	98.62	99.51	/	/	34.42	11.26	46.57	100	350	Peak
5230	92.15	93.04	/	/	34.42	11.26	46.57	100	350	Average
5350	49.93	50.78	74.00	-24.07	34.30	11.39	46.54	100	350	Peak
5350	46.54	47.39	54.00	-7.46	34.30	11.39	46.54	100	350	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
5150	51.21	52.63	74.00	-22.79	34.00	11.17	46.59	100	255	Peak
5150	45.77	47.19	54.00	-8.23	34.00	11.17	46.59	100	255	Average
5230	90.59	91.94	/	/	33.96	11.26	46.57	100	255	Peak
5230	84.18	85.53	/	/	33.96	11.26	46.57	100	255	Average
5350	53.54	53.89	74.00	-20.46	34.80	11.39	46.54	100	255	Peak
5350	46.46	46.81	54.00	-7.54	34.80	11.39	46.54	100	255	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



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Test Report No.: W7L-P24100002RF03

802.11ac (80MHz)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	56.37	57.59	74.00	-17.63	34.20	11.17	46.59	100	350	Peak
5150	50.17	51.39	54.00	-3.83	34.20	11.17	46.59	100	350	Average
5210	94.74	95.74	/	/	34.34	11.24	46.58	100	350	Peak
5210	89.44	90.44	/	/	34.34	11.24	46.58	100	350	Average
5350	53.28	54.13	74.00	-20.72	34.30	11.39	46.54	100	350	Peak
5350	46.40	47.25	54.00	-7.60	34.30	11.39	46.54	100	350	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
5150	51.42	52.84	74.00	-22.58	34.00	11.17	46.59	100	255	Peak
5150	46.81	48.23	54.00	-7.19	34.00	11.17	46.59	100	255	Average
5210	85.86	87.28	/	/	33.92	11.24	46.58	100	255	Peak
5210	80.72	82.14	/	/	33.92	11.24	46.58	100	255	Average
5350	53.32	53.67	74.00	-20.68	34.80	11.39	46.54	100	255	Peak
5350	47.87	48.22	54.00	-6.13	34.80	11.39	46.54	100	255	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.



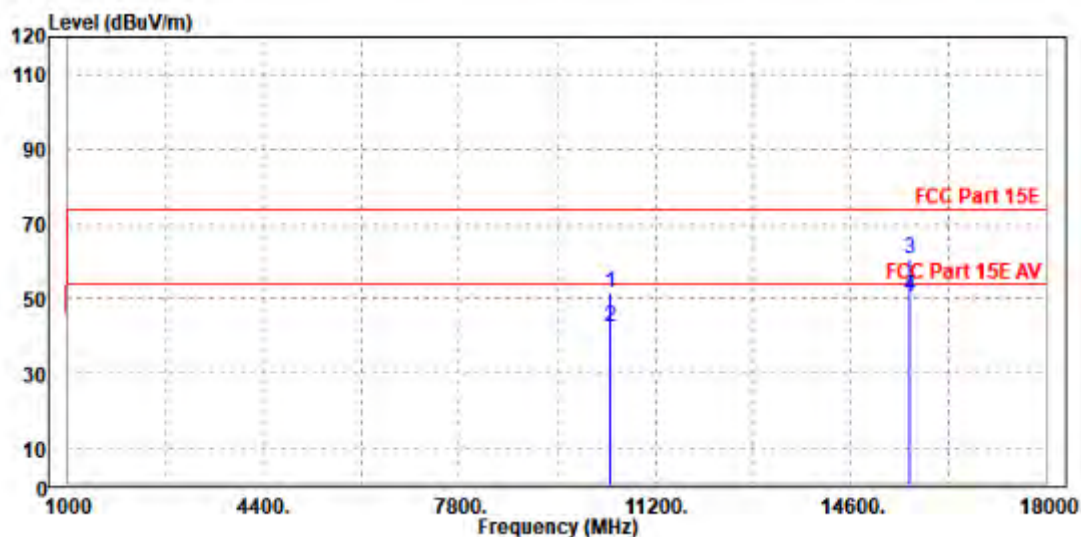
802.11ac (80MHz)

Worst case harmonic:

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

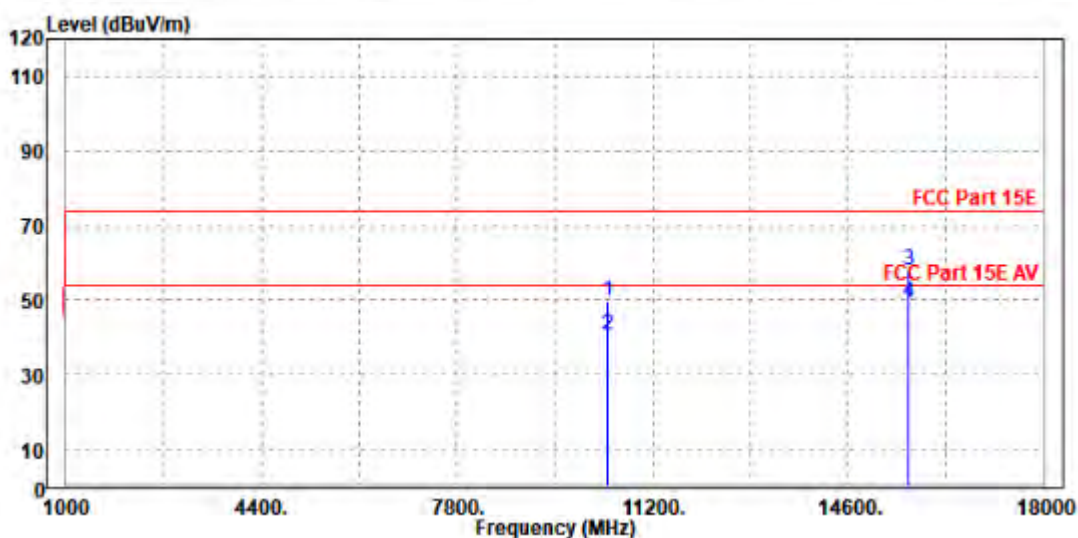
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	10418.000	51.78	44.45	74.00	-22.22	7.33	Peak	Horizontal
2	10418.000	42.45	35.12	54.00	-11.55	7.33	Average	Horizontal
3	PK15630.000	60.90	40.99	74.00	-13.10	19.91	Peak	Horizontal
4	PP15630.000	50.79	30.88	54.00	-3.21	19.91	Average	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	10420.000	49.84	42.87	74.00	-24.16	6.97	Peak	Vertical
2	10420.000	40.64	33.67	54.00	-13.36	6.97	Average	Vertical
3	PK15637.000	57.89	38.33	74.00	-16.11	19.56	Peak	Vertical
4	PP15637.000	49.12	29.56	54.00	-4.88	19.56	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
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Test Report No.: W7L-P24100002RF03

Band 2

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	54.01	55.23	74.00	-19.99	34.20	11.17	46.59	100	355	Peak
5150	45.22	46.44	54.00	-8.78	34.20	11.17	46.59	100	355	Average
5260	103.72	104.54	/	/	34.46	11.29	46.57	100	355	Peak
5260	94.58	95.40	/	/	34.46	11.29	46.57	100	355	Average
5350	53.89	54.74	74.00	-20.11	34.30	11.39	46.54	100	355	Peak
5350	45.46	46.31	54.00	-8.54	34.30	11.39	46.54	100	355	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
5150	50.97	52.39	74.00	-23.03	34.00	11.17	46.59	100	245	Peak
5150	44.84	46.26	54.00	-9.16	34.00	11.17	46.59	100	245	Average
5260	97.66	98.82	/	/	34.12	11.29	46.57	100	245	Peak
5260	89.38	90.54	/	/	34.12	11.29	46.57	100	245	Average
5350	54.26	54.61	74.00	-19.74	34.80	11.39	46.54	100	245	Peak
5350	45.96	46.31	54.00	-8.04	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	52.96	54.18	74.00	-21.04	34.20	11.17	46.59	100	355	Peak
5150	45.06	46.28	54.00	-8.94	34.20	11.17	46.59	100	355	Average
5300	103.44	104.36	/	/	34.30	11.34	46.56	100	355	Peak
5300	94.95	95.87	/	/	34.30	11.34	46.56	100	355	Average
5350	52.76	53.61	74.00	-21.24	34.30	11.39	46.54	100	355	Peak
5350	45.33	46.18	54.00	-8.67	34.30	11.39	46.54	100	355	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
5150	53.74	55.16	74.00	-20.26	34.00	11.17	46.59	100	245	Peak
5150	44.77	46.19	54.00	-9.23	34.00	11.17	46.59	100	245	Average
5300	97.70	98.32	/	/	34.60	11.34	46.56	100	245	Peak
5300	89.66	90.28	/	/	34.60	11.34	46.56	100	245	Average
5350	52.29	52.64	74.00	-21.71	34.80	11.39	46.54	100	245	Peak
5350	45.86	46.21	54.00	-8.14	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	52.19	53.41	74.00	-21.81	34.20	11.17	46.59	100	355	Peak
5150	44.97	46.19	54.00	-9.03	34.20	11.17	46.59	100	355	Average
5320	103.45	104.34	/	/	34.30	11.36	46.55	100	355	Peak
5320	95.52	96.41	/	/	34.30	11.36	46.55	100	355	Average
5350	52.64	53.49	74.00	-21.36	34.30	11.39	46.54	100	355	Peak
5350	46.18	47.03	54.00	-7.82	34.30	11.39	46.54	100	355	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
5150	52.01	53.43	74.00	-21.99	34.00	11.17	46.59	100	245	Peak
5150	44.70	46.12	54.00	-9.30	34.00	11.17	46.59	100	245	Average
5320	96.66	97.17	/	/	34.68	11.36	46.55	100	245	Peak
5320	89.66	90.17	/	/	34.68	11.36	46.55	100	245	Average
5350	52.78	53.13	74.00	-21.22	34.80	11.39	46.54	100	245	Peak
5350	45.93	46.28	54.00	-8.07	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



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Test Report No.: W7L-P24100002RF03

802.11n (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	52.90	54.12	74.00	-21.10	34.20	11.17	46.59	100	355	Peak
5150	45.13	46.35	54.00	-8.87	34.20	11.17	46.59	100	355	Average
5260	101.92	102.74	/	/	34.46	11.29	46.57	100	355	Peak
5260	94.42	95.24	/	/	34.46	11.29	46.57	100	355	Average
5350	53.74	54.59	74.00	-20.26	34.30	11.39	46.54	100	355	Peak
5350	45.41	46.26	54.00	-8.59	34.30	11.39	46.54	100	355	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
5150	53.61	55.03	74.00	-20.39	34.00	11.17	46.59	100	245	Peak
5150	45.19	46.61	54.00	-8.81	34.00	11.17	46.59	100	245	Average
5260	96.95	98.11	/	/	34.12	11.29	46.57	100	245	Peak
5260	89.52	90.68	/	/	34.12	11.29	46.57	100	245	Average
5350	52.38	52.73	74.00	-21.62	34.80	11.39	46.54	100	245	Peak
5350	46.08	46.43	54.00	-7.92	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	51.37	52.59	74.00	-22.63	34.20	11.17	46.59	100	355	Peak
5150	45.50	46.72	54.00	-8.50	34.20	11.17	46.59	100	355	Average
5300	102.20	103.12	/	/	34.30	11.34	46.56	100	355	Peak
5300	94.56	95.48	/	/	34.30	11.34	46.56	100	355	Average
5350	52.76	53.61	74.00	-21.24	34.30	11.39	46.54	100	355	Peak
5350	45.49	46.34	54.00	-8.51	34.30	11.39	46.54	100	355	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
5150	52.42	53.84	74.00	-21.58	34.00	11.17	46.59	100	245	Peak
5150	45.09	46.51	54.00	-8.91	34.00	11.17	46.59	100	245	Average
5300	97.21	97.83	/	/	34.60	11.34	46.56	100	245	Peak
5300	89.56	90.18	/	/	34.60	11.34	46.56	100	245	Average
5350	53.59	53.94	74.00	-20.41	34.80	11.39	46.54	100	245	Peak
5350	45.94	46.29	54.00	-8.06	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	52.39	53.61	74.00	-21.61	34.20	11.17	46.59	100	355	Peak
5150	45.05	46.27	54.00	-8.95	34.20	11.17	46.59	100	355	Average
5320	101.84	102.73	/	/	34.30	11.36	46.55	100	355	Peak
5320	94.74	95.63	/	/	34.30	11.36	46.55	100	355	Average
5350	53.02	53.87	74.00	-20.98	34.30	11.39	46.54	100	355	Peak
5350	45.58	46.43	54.00	-8.42	34.30	11.39	46.54	100	355	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
5150	52.84	54.26	74.00	-21.16	34.00	11.17	46.59	100	245	Peak
5150	44.95	46.37	54.00	-9.05	34.00	11.17	46.59	100	245	Average
5320	97.21	97.72	/	/	34.68	11.36	46.55	100	245	Peak
5320	89.84	90.35	/	/	34.68	11.36	46.55	100	245	Average
5350	53.49	53.84	74.00	-20.51	34.80	11.39	46.54	100	245	Peak
5350	46.07	46.42	54.00	-7.93	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24100002RF03

802.11n (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	51.11	52.33	74.00	-22.89	34.20	11.17	46.59	100	355	Peak
5150	45.15	46.37	54.00	-8.85	34.20	11.17	46.59	100	355	Average
5270	98.08	98.92	/	/	34.42	11.30	46.56	100	355	Peak
5270	92.33	93.17	/	/	34.42	11.30	46.56	100	355	Average
5350	51.96	52.81	74.00	-22.04	34.30	11.39	46.54	100	355	Peak
5350	46.84	47.69	54.00	-7.16	34.30	11.39	46.54	100	355	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
5150	50.72	52.14	74.00	-23.28	34.00	11.17	46.59	100	245	Peak
5150	44.54	45.96	54.00	-9.46	34.00	11.17	46.59	100	245	Average
5270	92.81	93.83	/	/	34.24	11.30	46.56	100	245	Peak
5270	86.89	87.91	/	/	34.24	11.30	46.56	100	245	Average
5350	52.78	53.13	74.00	-21.22	34.80	11.39	46.54	100	245	Peak
5350	46.06	46.41	54.00	-7.94	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	52.62	53.84	74.00	-21.38	34.20	11.17	46.59	100	355	Peak
5150	45.04	46.26	54.00	-8.96	34.20	11.17	46.59	100	355	Average
5310	96.77	97.67	/	/	34.30	11.35	46.55	100	355	Peak
5310	90.93	91.83	/	/	34.30	11.35	46.55	100	355	Average
5350	53.61	54.46	74.00	-20.39	34.30	11.39	46.54	100	355	Peak
5350	46.72	47.57	54.00	-7.28	34.30	11.39	46.54	100	355	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
5150	52.15	53.57	74.00	-21.85	34.00	11.17	46.59	100	245	Peak
5150	44.76	46.18	54.00	-9.24	34.00	11.17	46.59	100	245	Average
5310	93.04	93.60	/	/	34.64	11.35	46.55	100	245	Peak
5310	87.07	87.63	/	/	34.64	11.35	46.55	100	245	Average
5350	54.23	54.58	74.00	-19.77	34.80	11.39	46.54	100	245	Peak
5350	47.29	47.64	54.00	-6.71	34.80	11.39	46.54	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.



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Test Report No.: W7L-P24100002RF03

802.11ac (80MHz)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5150	49.9	51.12	74	-24.1	34.2	11.17	46.59	100	345	Peak
5150	46.23	47.45	54	-7.77	34.2	11.17	46.59	100	345	Average
5290	92.72	93.62	/	/	34.34	11.32	46.56	100	345	Peak
5290	87.1	88	/	/	34.34	11.32	46.56	100	345	Average
5350	52.89	53.74	74	-21.11	34.3	11.39	46.54	100	345	Peak
5350	50.07	50.92	54	-3.93	34.3	11.39	46.54	100	345	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
5150	51.29	52.71	74	-22.71	34	11.17	46.59	100	280	Peak
5150	44.93	46.35	54	-9.07	34	11.17	46.59	100	280	Average
5290	88.83	89.59	/	/	34.48	11.32	46.56	100	280	Peak
5290	83.65	84.41	/	/	34.48	11.32	46.56	100	280	Average
5350	51.86	52.21	74	-22.14	34.8	11.39	46.54	100	280	Peak
5350	48.55	48.9	54	-5.45	34.8	11.39	46.54	100	280	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.



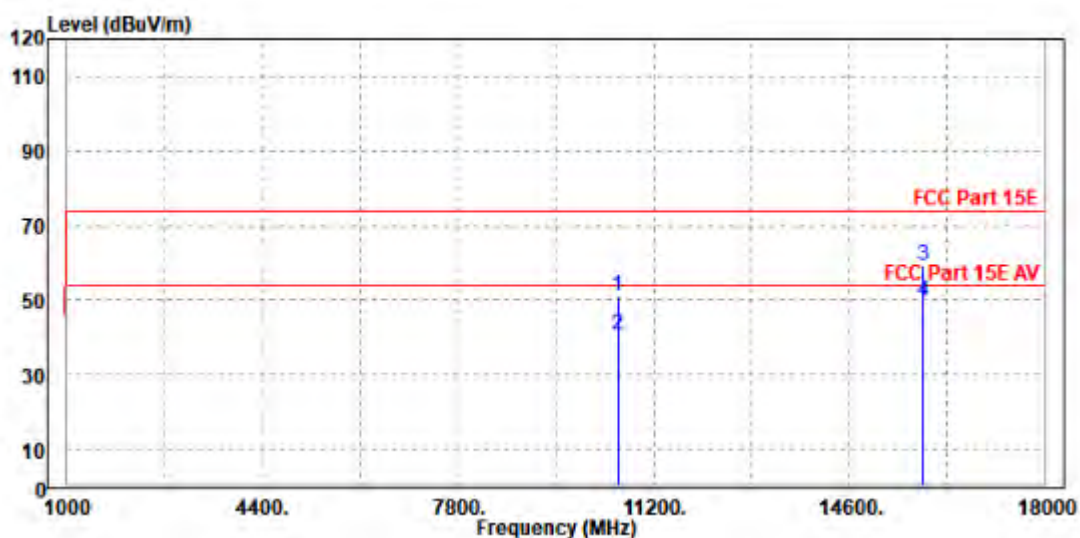
802.11ac (80MHz)

Worst case harmonic:

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

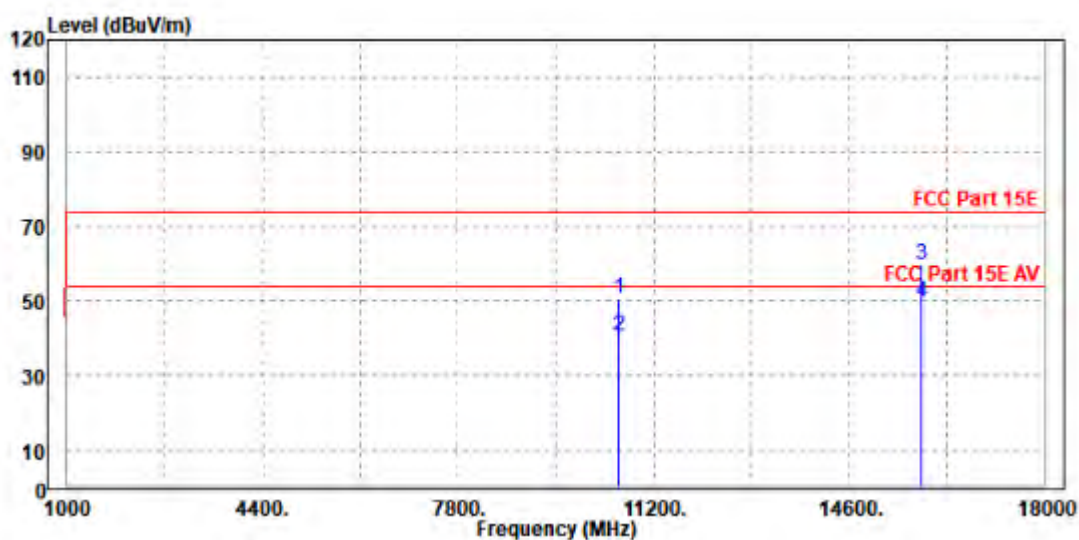
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10580.000	51.07	43.82	74.00	-22.93	7.25	Peak	Horizontal
2	10580.000	40.64	33.39	54.00	-13.36	7.25	Average	Horizontal
3	PK15875.000	59.37	40.11	74.00	-14.63	19.26	Peak	Horizontal
4	PP15875.000	49.55	30.29	54.00	-4.45	19.26	Average	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	10588.000	50.47	43.24	74.00	-23.53	7.23	Peak	Vertical
2	10588.000	40.48	33.25	54.00	-13.52	7.23	Average	Vertical
3	PK15870.000	59.68	40.39	74.00	-14.32	19.29	Peak	Vertical
4	PP15870.000	49.64	30.35	54.00	-4.36	19.29	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



Test Report No.: W7L-P24100002RF03

Band 3

802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	52.19	52.6	74	-21.81	34.58	11.52	46.51	100	355	Peak
5460	46.3	46.71	54	-7.7	34.58	11.52	46.51	100	355	Average
5470	53.93	54.35	68.2	-14.27	34.56	11.53	46.51	100	355	Peak
5500	102	102.45	/	/	34.5	11.56	46.51	100	355	Peak
5500	94.11	94.56	/	/	34.5	11.56	46.51	100	355	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
5460	52.52	53.23	74	-21.48	34.28	11.52	46.51	100	245	Peak
5460	45.79	46.5	54	-8.21	34.28	11.52	46.51	100	245	Average
5470	53.23	53.95	68.2	-14.97	34.26	11.53	46.51	100	245	Peak
5500	95.82	96.57	/	/	34.2	11.56	46.51	100	245	Peak
5500	88.21	88.96	/	/	34.2	11.56	46.51	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	53.19	53.6	74	-20.81	34.58	11.52	46.51	100	355	Peak
5460	45.94	46.35	54	-8.06	34.58	11.52	46.51	100	355	Average
5470	53.73	54.15	68.2	-14.47	34.56	11.53	46.51	100	355	Peak
5580	102.15	102.75	/	/	34.3	11.59	46.49	100	355	Peak
5580	87.87	88.47	/	/	34.3	11.59	46.49	100	355	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
5460	52.06	52.77	74	-21.94	34.28	11.52	46.51	100	245	Peak
5460	45.57	46.28	54	-8.43	34.28	11.52	46.51	100	245	Average
5470	53.18	53.9	68.2	-15.02	34.26	11.53	46.51	100	245	Peak
5580	95.91	95.87	/	/	34.94	11.59	46.49	100	245	Peak
5580	88.12	88.08	/	/	34.94	11.59	46.49	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5700	101.97	102.19	/	/	34.6	11.64	46.46	100	355	Peak
5700	93.65	93.87	/	/	34.6	11.64	46.46	100	355	Average
5725	53.04	53.29	68.2	-15.16	34.55	11.65	46.45	100	355	Peak
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
5700	94.66	95.18	/	/	34.3	11.64	46.46	100	245	Peak
5700	87.44	87.96	/	/	34.3	11.64	46.46	100	245	Average
5725	53.14	53.59	68.2	-15.06	34.35	11.65	46.45	100	245	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.



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Test Report No.: W7L-P24100002RF03

802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	53.21	53.62	74	-20.79	34.58	11.52	46.51	100	355	Peak
5460	45.86	46.27	54	-8.14	34.58	11.52	46.51	100	355	Average
5470	52.73	53.15	68.2	-15.47	34.56	11.53	46.51	100	355	Peak
5500	101.68	102.13	/	/	34.5	11.56	46.51	100	355	Peak
5500	87.24	87.69	/	/	34.5	11.56	46.51	100	355	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
5460	52.15	52.86	74	-21.85	34.28	11.52	46.51	100	245	Peak
5460	45.42	46.13	54	-8.58	34.28	11.52	46.51	100	245	Average
5470	52.87	53.59	68.2	-15.33	34.26	11.53	46.51	100	245	Peak
5500	94.79	95.54	/	/	34.2	11.56	46.51	100	245	Peak
5500	87.5	88.25	/	/	34.2	11.56	46.51	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	52.06	52.47	74	-21.94	34.58	11.52	46.51	100	355	Peak
5460	46.17	46.58	54	-7.83	34.58	11.52	46.51	100	355	Average
5470	53.18	53.6	68.2	-15.02	34.56	11.53	46.51	100	355	Peak
5580	101.33	101.93	/	/	34.3	11.59	46.49	100	355	Peak
5580	87.05	87.65	/	/	34.3	11.59	46.49	100	355	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
5460	52.9	53.61	74	-21.1	34.28	11.52	46.51	100	245	Peak
5460	45.55	46.26	54	-8.45	34.28	11.52	46.51	100	245	Average
5470	52.13	52.85	68.2	-16.07	34.26	11.53	46.51	100	245	Peak
5580	95.84	95.8	/	/	34.94	11.59	46.49	100	245	Peak
5580	87.54	87.5	/	/	34.94	11.59	46.49	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5700	101.35	101.57	/	/	34.6	11.64	46.46	100	355	Peak
5700	93.54	93.76	/	/	34.6	11.64	46.46	100	355	Average
5725	53.42	53.67	68.2	-14.78	34.55	11.65	46.45	100	355	Peak
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
5700	94.15	94.67	/	/	34.3	11.64	46.46	100	245	Peak
5700	86.43	86.95	/	/	34.3	11.64	46.46	100	245	Average
5725	53.17	53.62	68.2	-15.03	34.35	11.65	46.45	100	245	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.

802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	52.89	53.3	74	-21.11	34.58	11.52	46.51	100	355	Peak
5460	45.97	46.38	54	-8.03	34.58	11.52	46.51	100	355	Average
5470	51.9	52.32	68.2	-16.3	34.56	11.53	46.51	100	355	Peak
5510	96.87	97.35	/	/	34.46	11.56	46.5	100	355	Peak
5510	91.15	91.63	/	/	34.46	11.56	46.5	100	355	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
5460	52.14	52.85	74	-21.86	34.28	11.52	46.51	100	245	Peak
5460	45.45	46.16	54	-8.55	34.28	11.52	46.51	100	245	Average
5470	52.98	53.7	68.2	-15.22	34.26	11.53	46.51	100	245	Peak
5510	92.79	93.43	/	/	34.3	11.56	46.5	100	245	Peak
5510	85.2	85.84	/	/	34.3	11.56	46.5	100	245	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5510MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	52.39	52.8	74	-21.61	34.58	11.52	46.51	100	355	Peak
5460	45.73	46.14	54	-8.27	34.58	11.52	46.51	100	355	Average
5470	52.43	52.85	68.2	-15.77	34.56	11.53	46.51	100	355	Peak
5550	100.84	101.45	/	/	34.3	11.58	46.49	100	355	Peak
5550	93.96	94.57	/	/	34.3	11.58	46.49	100	355	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
5460	51.95	52.66	74	-22.05	34.28	11.52	46.51	100	245	Peak
5460	45.65	46.36	54	-8.35	34.28	11.52	46.51	100	245	Average
5470	52.55	53.27	68.2	-15.65	34.26	11.53	46.51	100	245	Peak
5550	92.97	93.18	/	/	34.7	11.58	46.49	100	245	Peak
5550	85.88	86.09	/	/	34.7	11.58	46.49	100	245	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5670	100.57	100.81	/	/	34.6	11.62	46.46	100	355	Peak
5670	92.59	92.83	/	/	34.6	11.62	46.46	100	355	Average
5725	54.4	54.65	68.2	-13.8	34.55	11.65	46.45	100	355	Peak
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
5670	92.16	92.58	/	/	34.42	11.62	46.46	100	355	Peak
5670	85.34	85.76	/	/	34.42	11.62	46.46	100	355	Average
5725	52.04	52.49	68.2	-16.16	34.35	11.65	46.45	100	355	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.

802.11ac (80MHz)

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5460	52.29	52.7	74	-21.71	34.58	11.52	46.51	100	355	Peak
5460	45.87	46.28	54	-8.13	34.58	11.52	46.51	100	355	Average
5470	53.19	53.61	68.2	-15.01	34.56	11.53	46.51	100	355	Peak
5530	93.19	93.74	/	/	34.38	11.57	46.5	100	355	Peak
5530	87.86	88.41	/	/	34.38	11.57	46.5	100	355	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
5460	52.07	52.78	74	-21.93	34.28	11.52	46.51	100	245	Peak
5460	45.65	46.36	54	-8.35	34.28	11.52	46.51	100	245	Average
5470	52.88	53.6	68.2	-15.32	34.26	11.53	46.51	100	245	Peak
5530	88.83	89.26	/	/	34.5	11.57	46.5	100	245	Peak
5530	83.81	84.24	/	/	34.5	11.57	46.5	100	245	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.



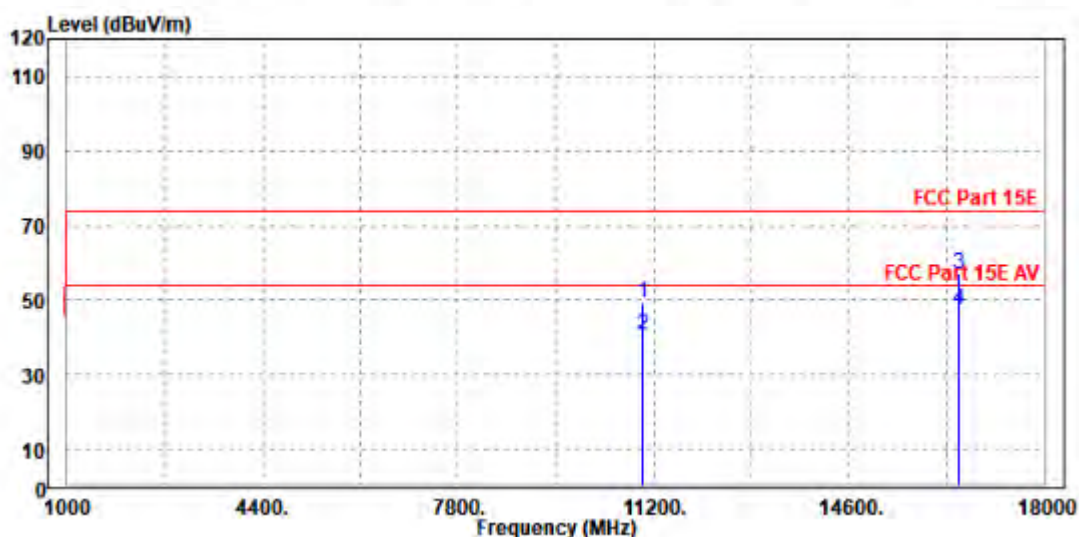
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Worst case harmonic:

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

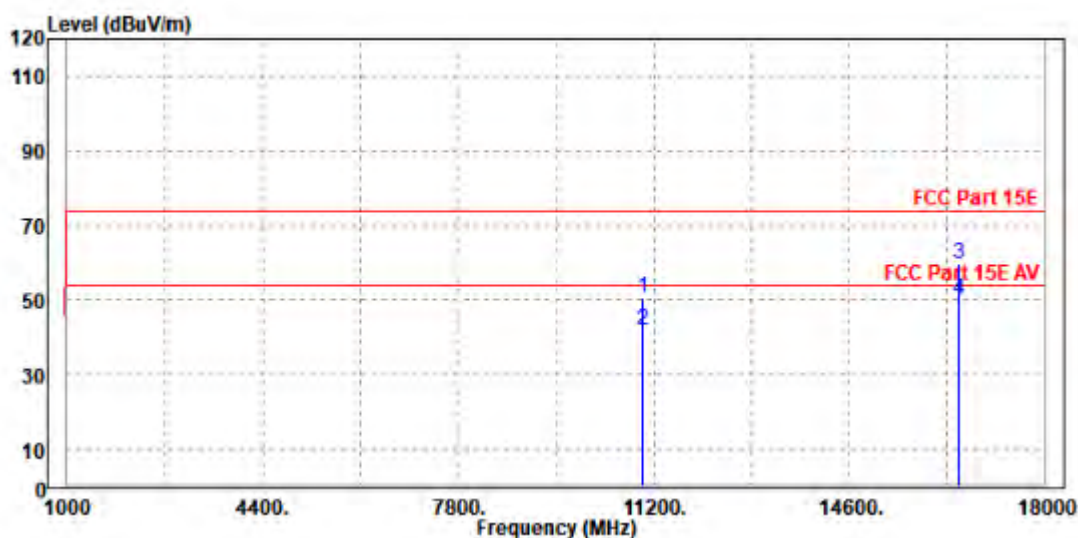
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10996.000	49.28	42.41	74.00	-24.72	6.87	Peak	Horizontal
2	10996.000	40.75	33.88	54.00	-13.25	6.87	Average	Horizontal
3	PK16500.000	56.82	38.86	74.00	-17.18	17.96	Peak	Horizontal
4	PP16500.000	47.52	29.56	54.00	-6.48	17.96	Average	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	11000.000	50.70	43.43	74.00	-23.30	7.27	Peak	Vertical
2	11000.000	41.93	34.66	54.00	-12.07	7.27	Average	Vertical
3	PK16504.000	59.64	41.88	74.00	-14.36	17.76	Peak	Vertical
4	PP16504.000	50.32	32.56	54.00	-3.68	17.76	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 4:

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CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5745	99.24	99.52	/	/	34.51	11.65	46.44	100	305	Peak
5745	92.37	92.65	/	/	34.51	11.65	46.44	100	305	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
5745	94.78	95.18	/	/	34.39	11.65	46.44	100	190	Peak
5745	88.14	88.54	/	/	34.39	11.65	46.44	100	190	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

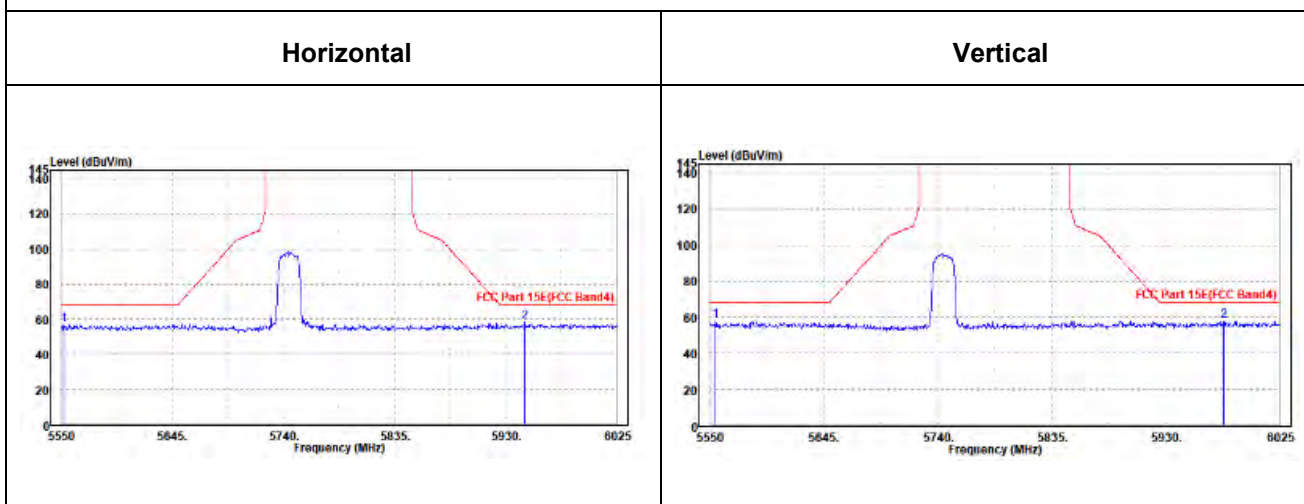


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ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5551.9	57.05	57.66	68.2	-11.15	34.3	11.58	46.49	100	360	Peak
5946.15	58.55	58.12	68.2	-9.65	35.09	11.73	46.39	100	360	Peak
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
5554.75	57.92	58.09	68.2	-10.28	34.74	11.58	46.49	100	0	Peak
5978.45	57.86	57.55	68.2	-10.34	34.96	11.74	46.39	100	0	Peak

CH 149





CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5785	99.48	99.6	/	/	34.64	11.67	46.43	100	305	Peak
5785	93.02	93.14	/	/	34.64	11.67	46.43	100	305	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
5785	94.41	94.42	/	/	34.75	11.67	46.43	100	190	Peak
5785	87.61	87.62	/	/	34.75	11.67	46.43	100	190	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

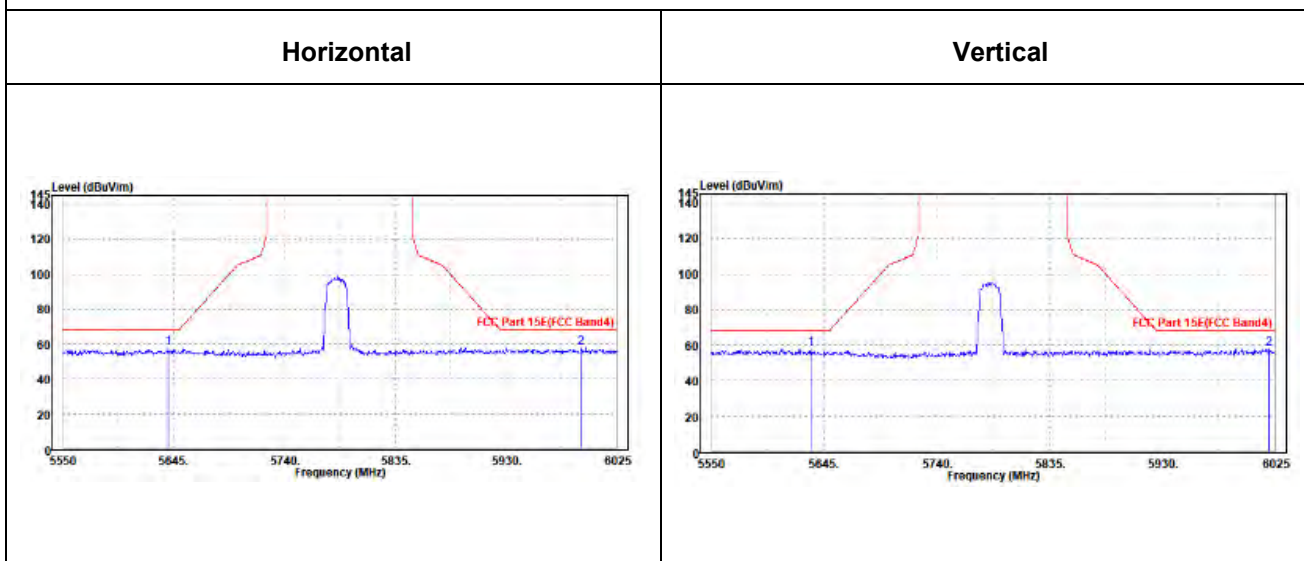


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ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5640.25	57.92	58.24	68.2	-10.28	34.54	11.61	46.47	100	0	Peak
5994.125	58.15	57.68	68.2	-10.05	35.1	11.75	46.38	100	0	Peak
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
5633.6	57.65	57.81	68.2	-10.55	34.7	11.61	46.47	100	360	Peak
6019.3	58.08	57.53	68.2	-10.12	35.15	11.78	46.38	100	360	Peak

CH 157





CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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
5825	98.98	98.92	/	/	34.8	11.68	46.42	100	305	Peak
5825	92.93	92.87	/	/	34.8	11.68	46.42	100	305	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
5825	95.92	95.56	/	/	35.1	11.68	46.42	100	190	Peak
5825	87.96	87.6	/	/	35.1	11.68	46.42	100	190	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.



OUBE DATA

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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
5572.8	57.4	58	68.2	-10.8	34.3	11.59	46.49	100	0	Peak
6019.3	58.27	57.73	68.2	-9.93	35.14	11.78	46.38	100	0	Peak
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
5550.475	58.12	58.33	68.2	-10.08	34.7	11.58	46.49	100	360	Peak
5980.35	58.35	58.03	68.2	-9.85	34.96	11.74	46.38	100	360	Peak

CH 165

