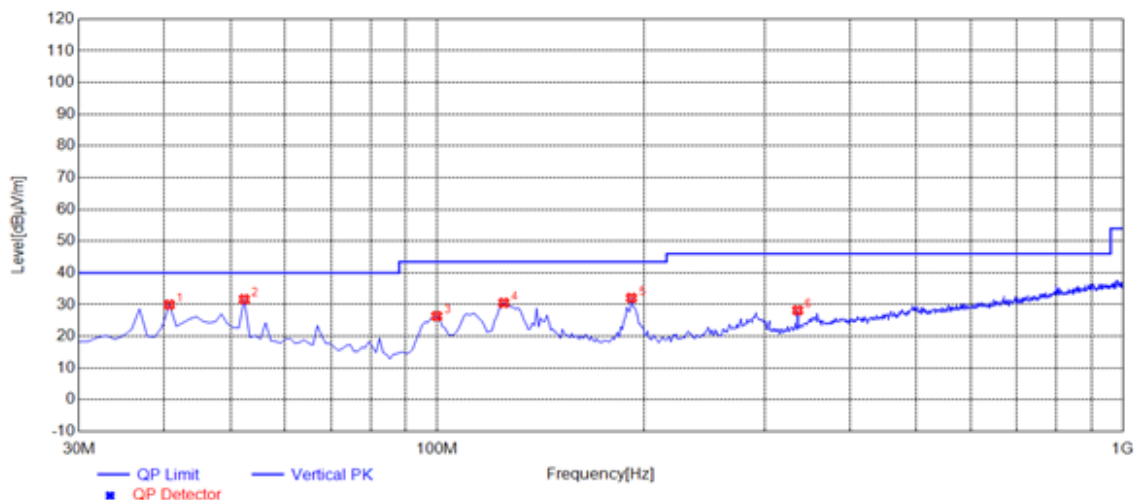


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	29.98	11.91	40.00	10.02	100	108	Vertical
2	52.3100	31.69	11.49	40.00	8.31	100	330	Vertical
3	99.8400	26.36	11.30	43.50	17.14	100	349	Vertical
4	125.0600	30.55	13.81	43.50	12.95	100	145	Vertical
5	191.9900	32.10	12.43	43.50	11.40	100	177	Vertical
6	335.5500	28.19	17.32	46.00	17.81	100	15	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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Radiated emission above 1GHz

EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.000	54.63	0.08	54.71	74	-19.29	peak
4824.000	45.18	0.08	45.26	54	-8.74	AVG
7236.000	49.32	2.21	51.53	74	-22.47	peak
7236.000	40.26	2.21	42.47	54	-11.53	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.000	55.28	0.08	55.36	74	-18.64	peak
4824.000	45.36	0.08	45.44	54	-8.56	AVG
7236.000	51.07	2.21	53.28	74	-20.72	peak
7236.000	40.82	2.21	43.03	54	-10.97	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.000	56.39	0.14	56.53	74	-17.47	peak
4874.000	45.98	0.14	46.12	54	-7.88	AVG
7311.000	51.02	2.36	53.38	74	-20.62	peak
7311.000	40.26	2.36	42.62	54	-11.38	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.000	55.32	0.14	55.46	74	-18.54	peak
4874.000	46.21	0.14	46.35	54	-7.65	AVG
7311.000	50.23	2.36	52.59	74	-21.41	peak
7311.000	40.37	2.36	42.73	54	-11.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	54.37	0.22	54.59	74	-19.41	peak
4924.000	43.24	0.22	43.46	54	-10.54	AVG
7386.000	49.28	2.64	51.92	74	-22.08	peak
7386.000	40.05	2.64	42.69	54	-11.31	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	56.14	0.22	56.36	74	-17.64	peak
4924.000	45.13	0.22	45.35	54	-8.65	AVG
7386.000	51.09	2.64	53.73	74	-20.27	peak
7386.000	42.38	2.64	45.02	54	-8.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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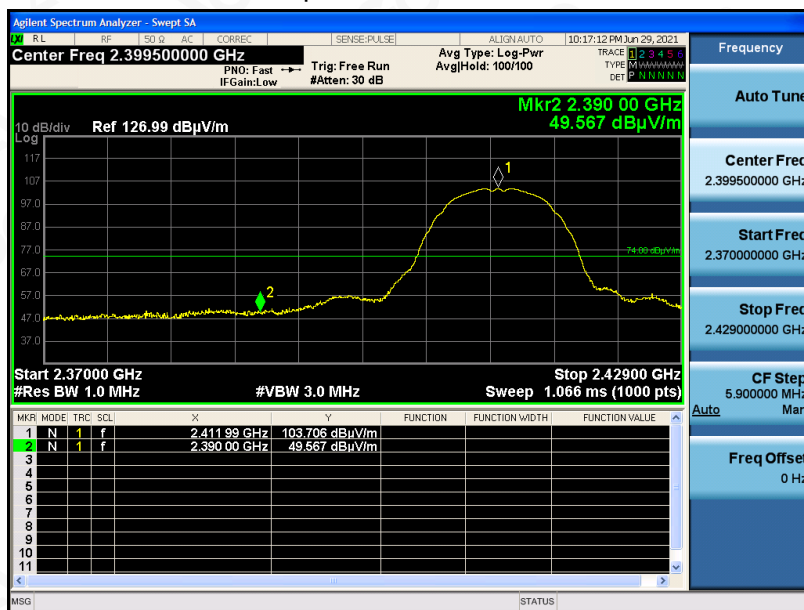
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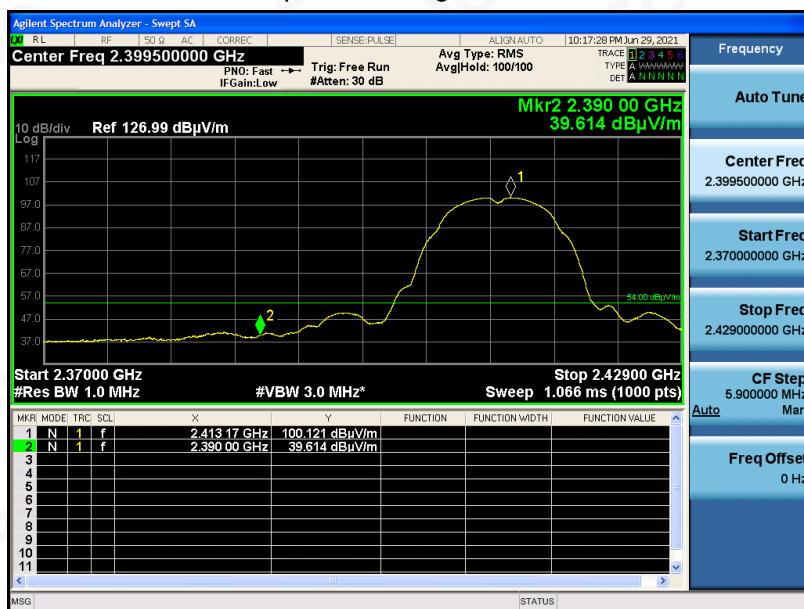
Test result for band edge emission at restricted bands

EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

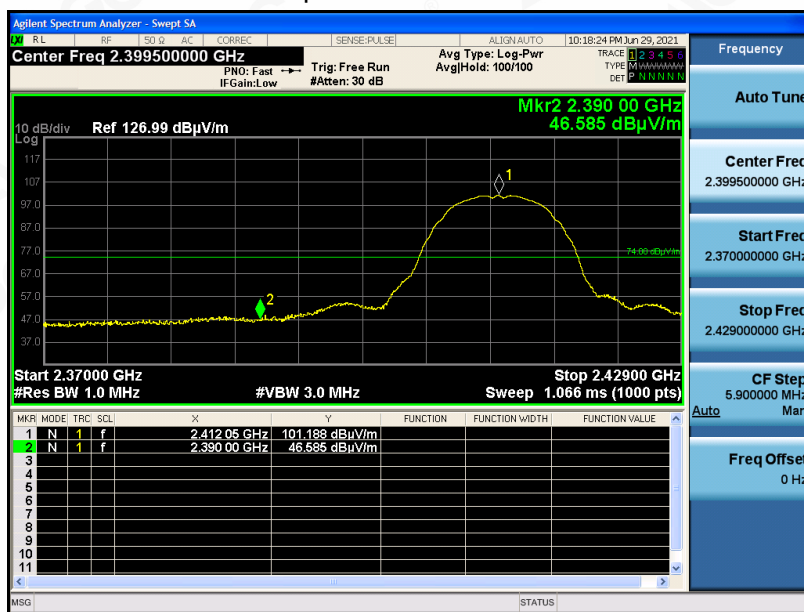
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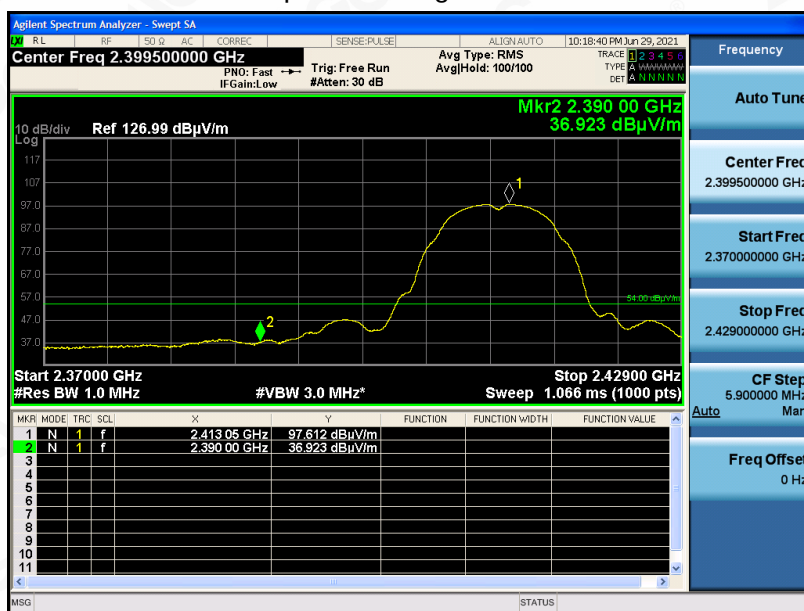


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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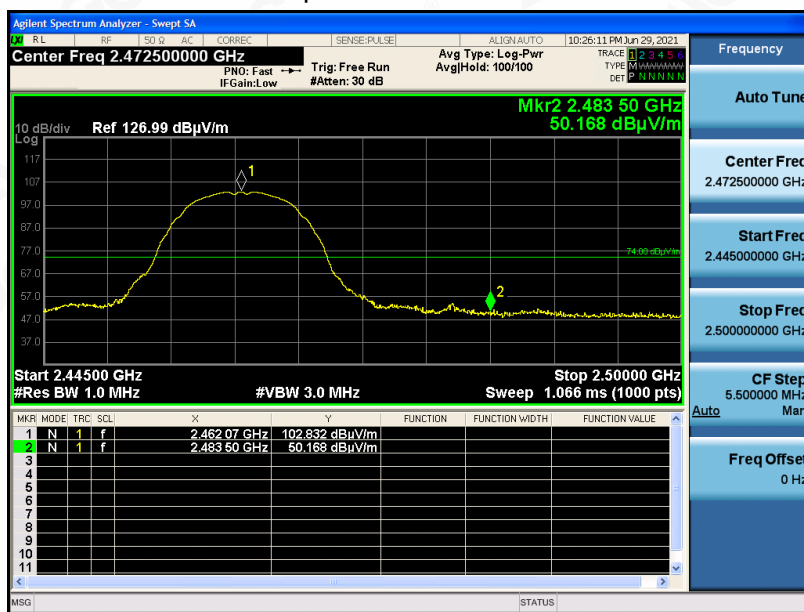
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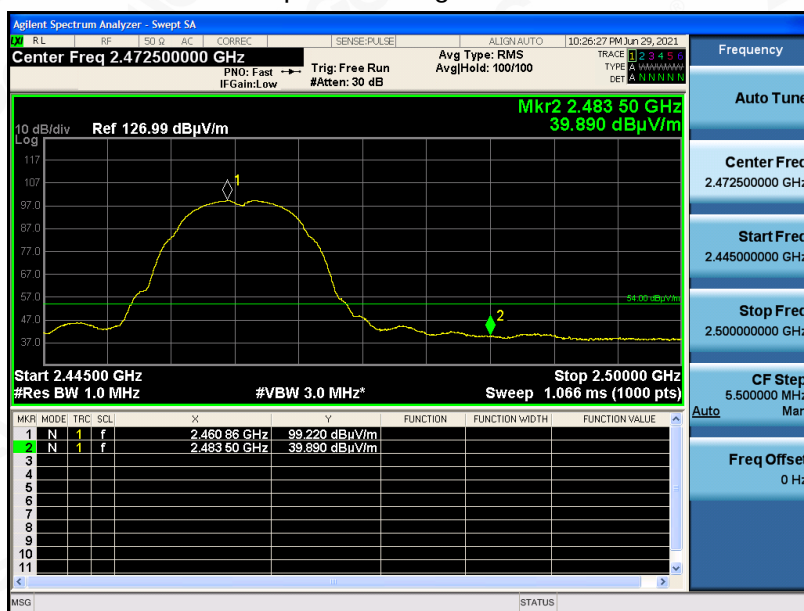


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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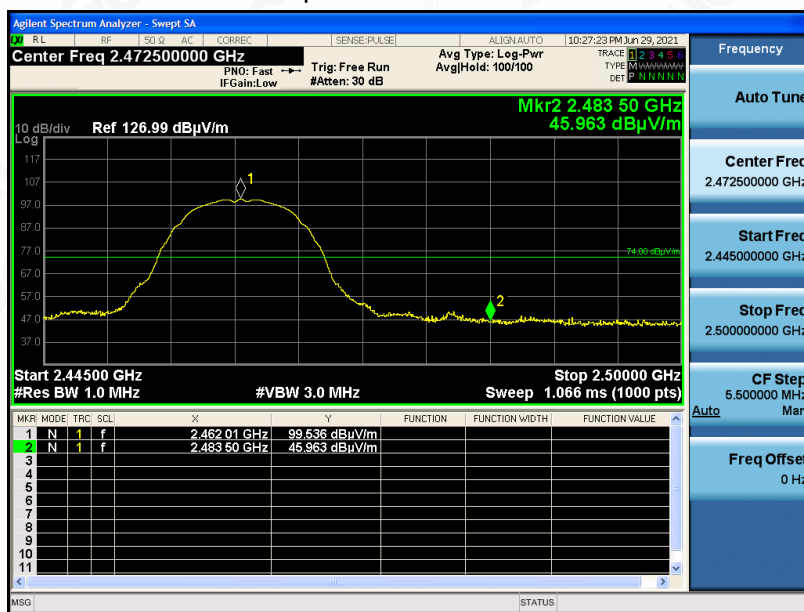
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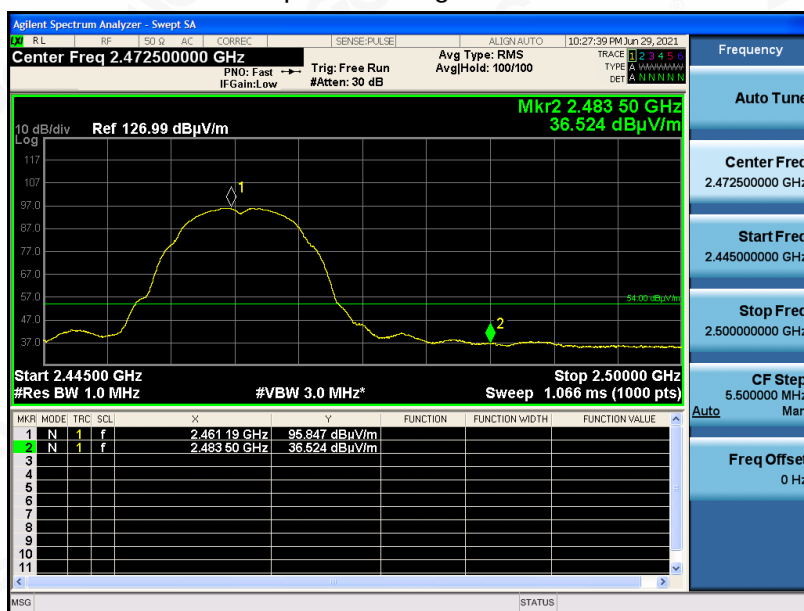


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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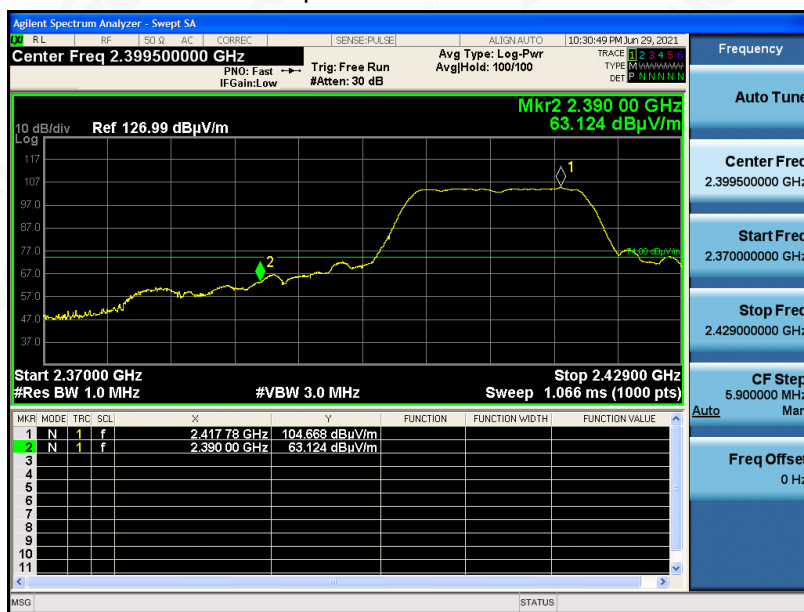
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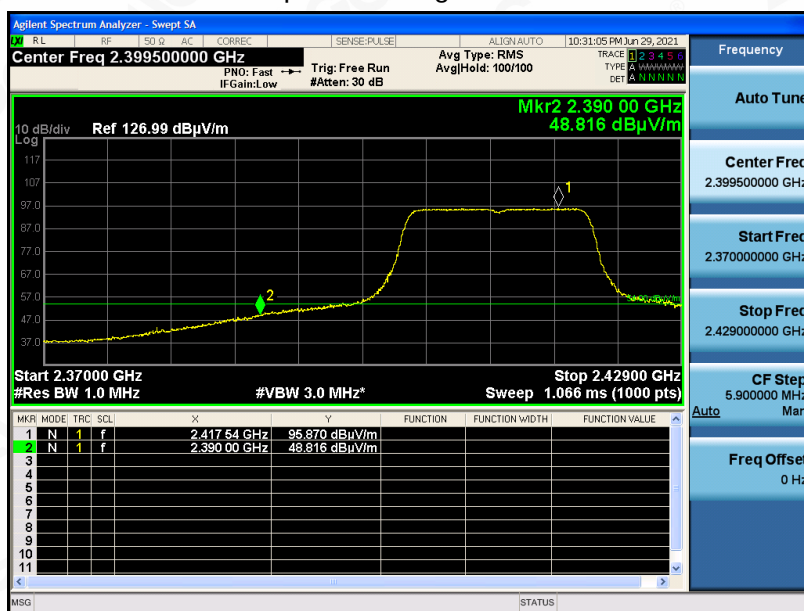


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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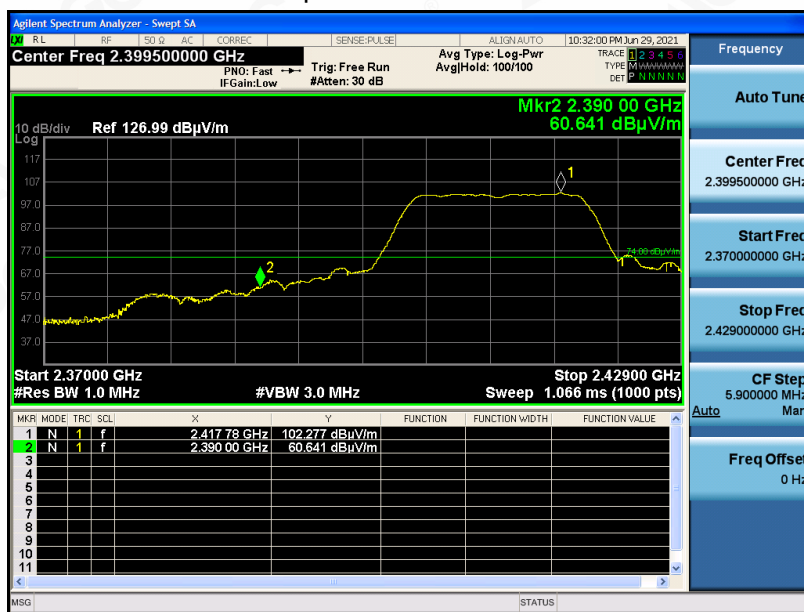
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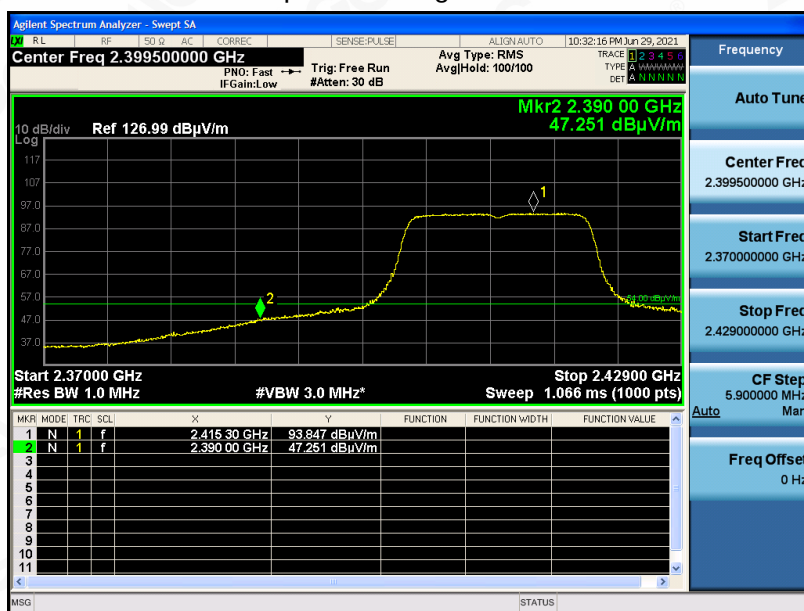


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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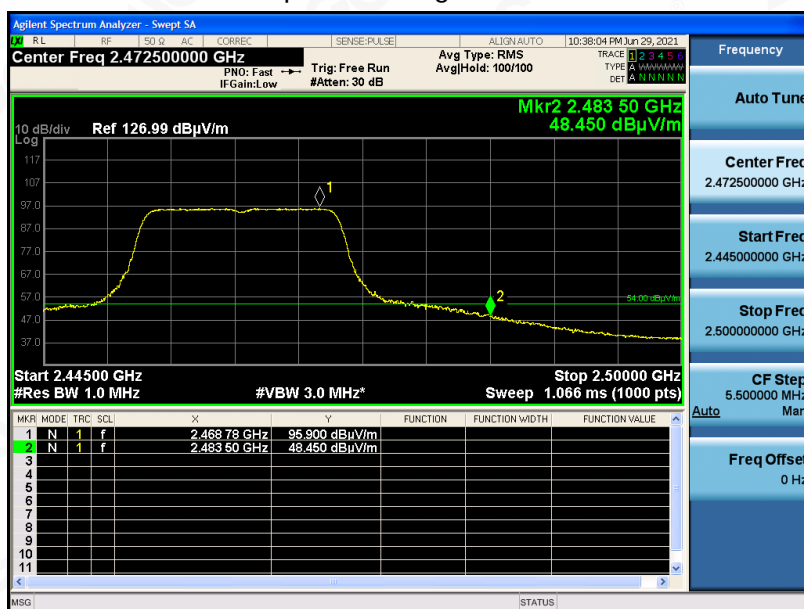


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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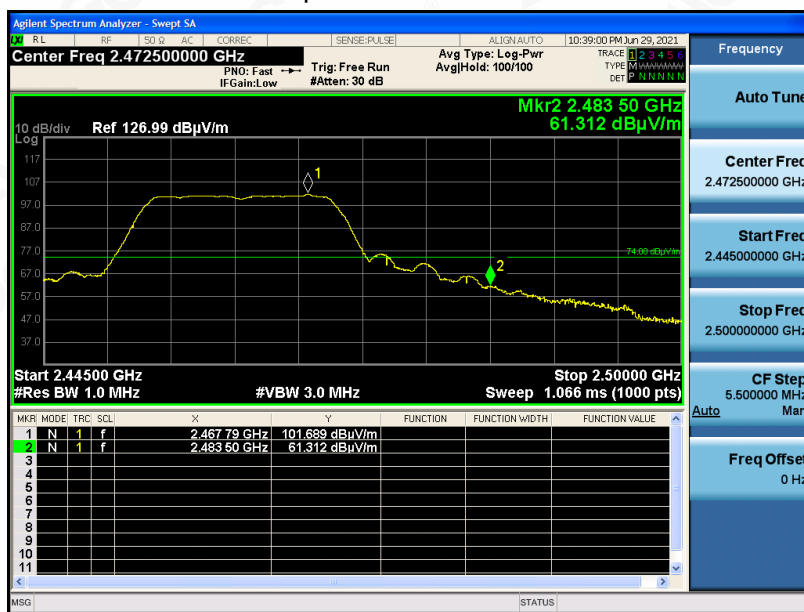
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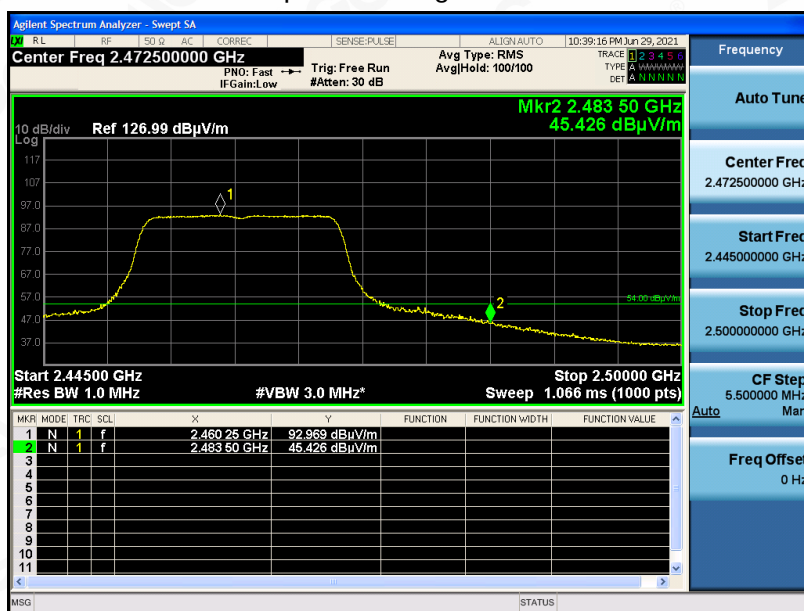


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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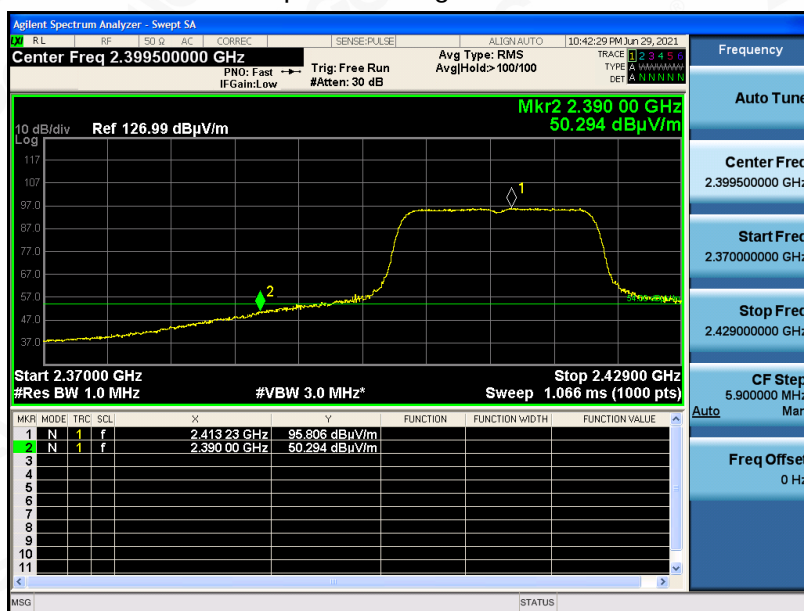


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

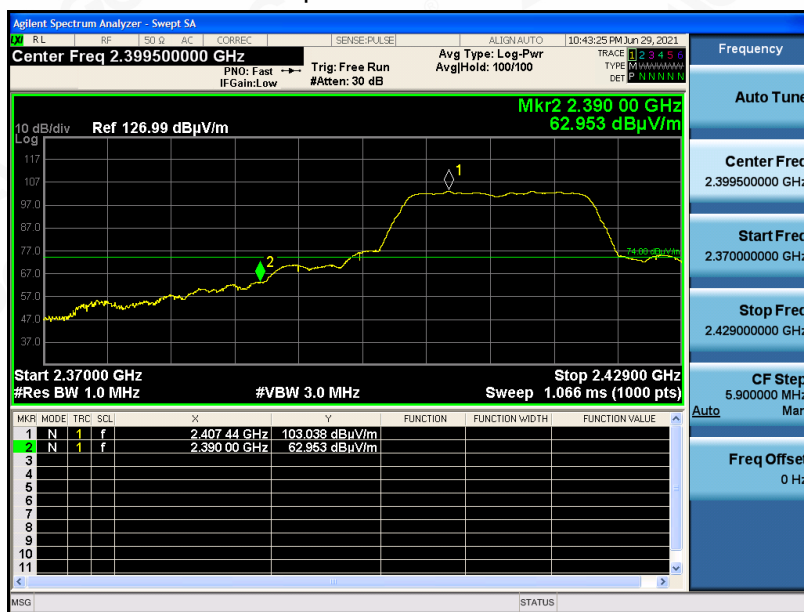
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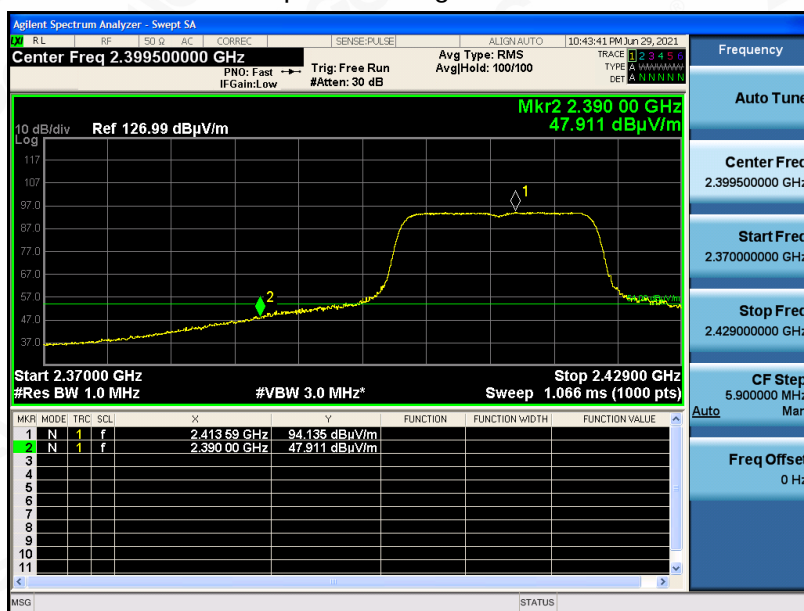


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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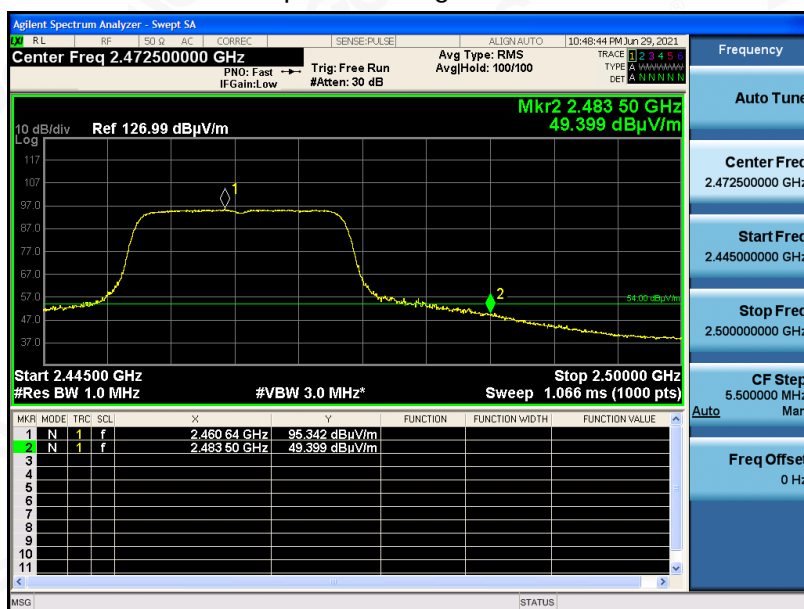


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

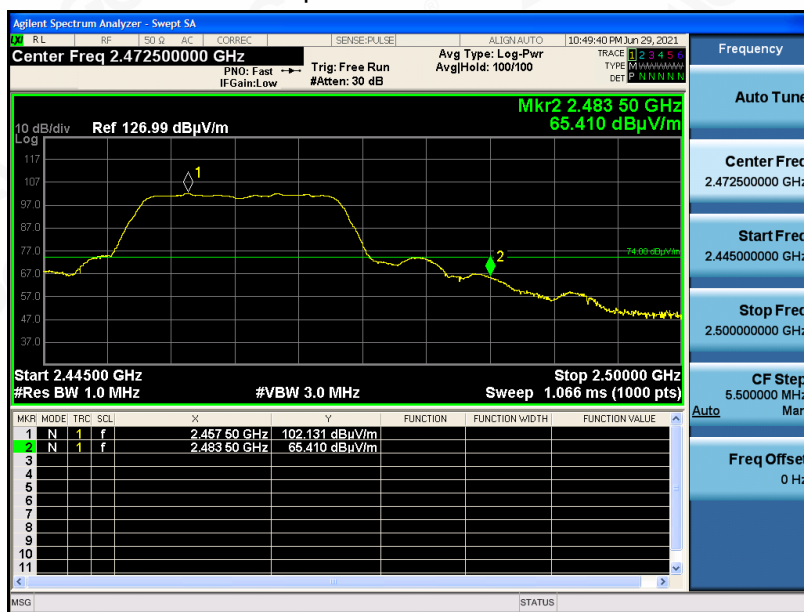
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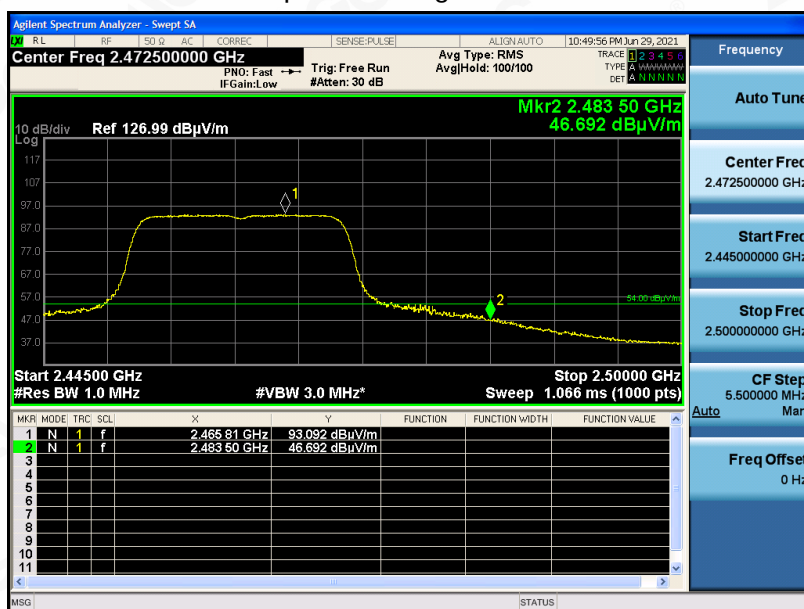


EUT	TANGO 2	Model Name	TANGO 2
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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12. LINE CONDUCTED EMISSION TEST

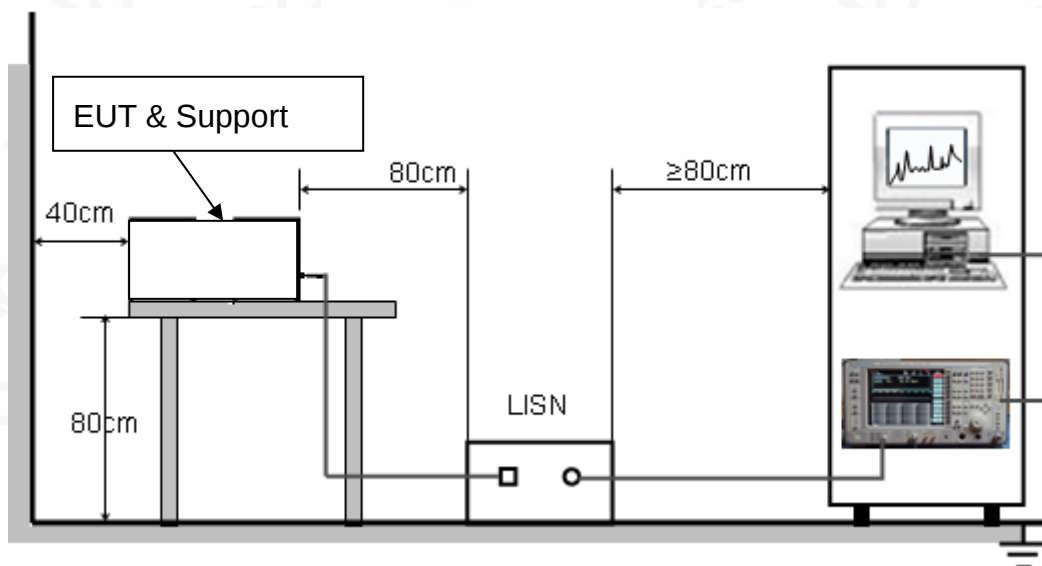
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

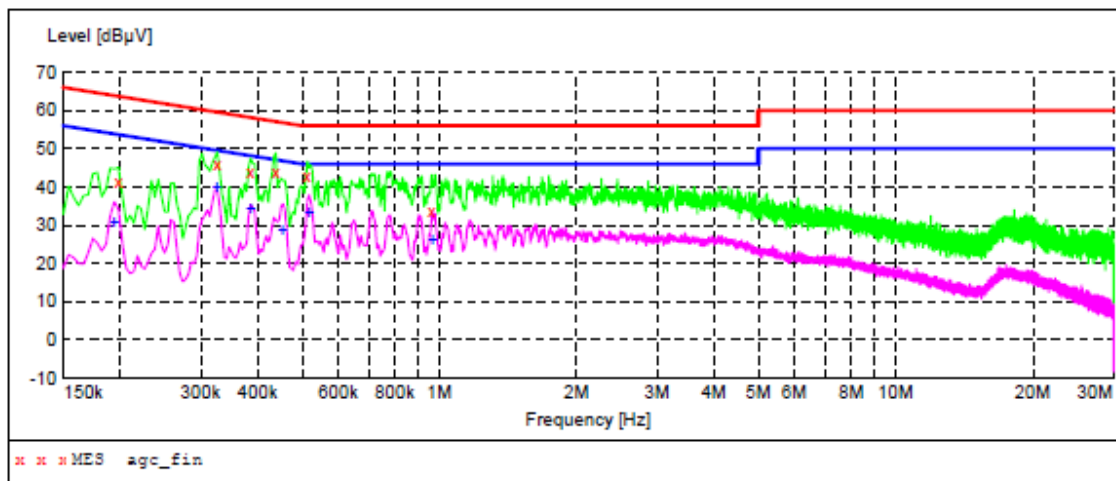
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2021/6/23 9:57

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.198000	41.30	12.4	64	22.4	QP	L1
0.326000	46.10	12.4	60	13.5	QP	L1
0.386000	43.60	12.4	58	14.5	QP	L1
0.438000	43.90	12.4	57	13.2	QP	L1
0.514000	42.80	12.4	56	13.2	QP	L1
0.962000	33.90	12.4	56	22.1	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2021/6/23 9:56

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.194000	31.10	12.4	54	22.8	AV	L1
0.326000	40.40	12.4	50	9.2	AV	L1
0.386000	34.80	12.4	48	13.3	AV	L1
0.454000	29.00	12.4	47	17.8	AV	L1
0.518000	33.70	12.4	46	12.3	AV	L1
0.966000	26.60	12.4	46	19.4	AV	L1

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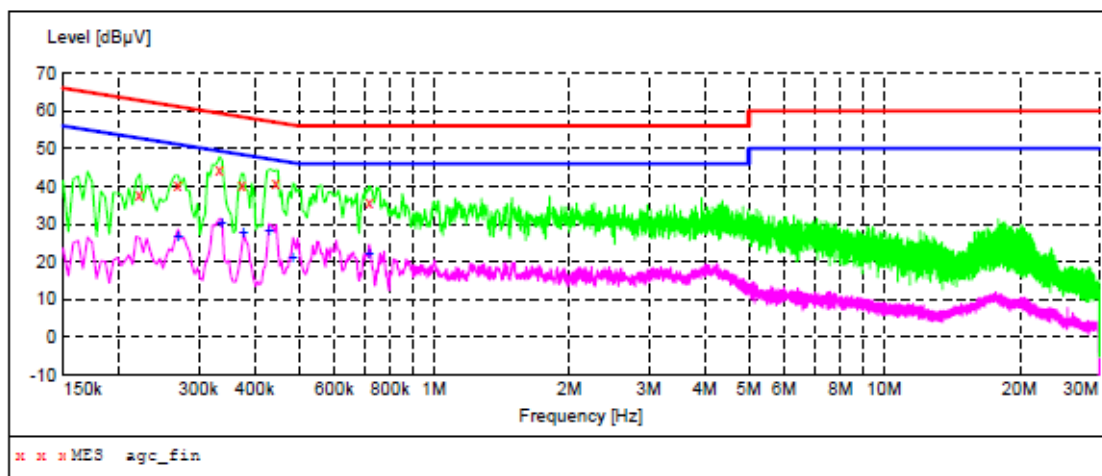
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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2021/6/23 10:04

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.222000	38.00	12.4	63	24.7	QP	N
0.270000	40.10	12.4	61	21.0	QP	N
0.334000	44.40	12.4	59	15.0	QP	N
0.374000	40.20	12.4	58	18.2	QP	N
0.446000	40.90	12.4	57	16.0	QP	N
0.718000	35.80	12.4	56	20.2	QP	N

MEASUREMENT RESULT: "agc_fin2"

2021/6/23 10:03

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.270000	26.80	12.4	51	24.3	AV	N
0.338000	30.40	12.4	49	18.9	AV	N
0.378000	28.00	12.4	48	20.3	AV	N
0.430000	28.50	12.4	47	18.8	AV	N
0.486000	21.40	12.4	46	24.8	AV	N
0.718000	22.70	12.4	46	23.3	AV	N

RESULT: PASS

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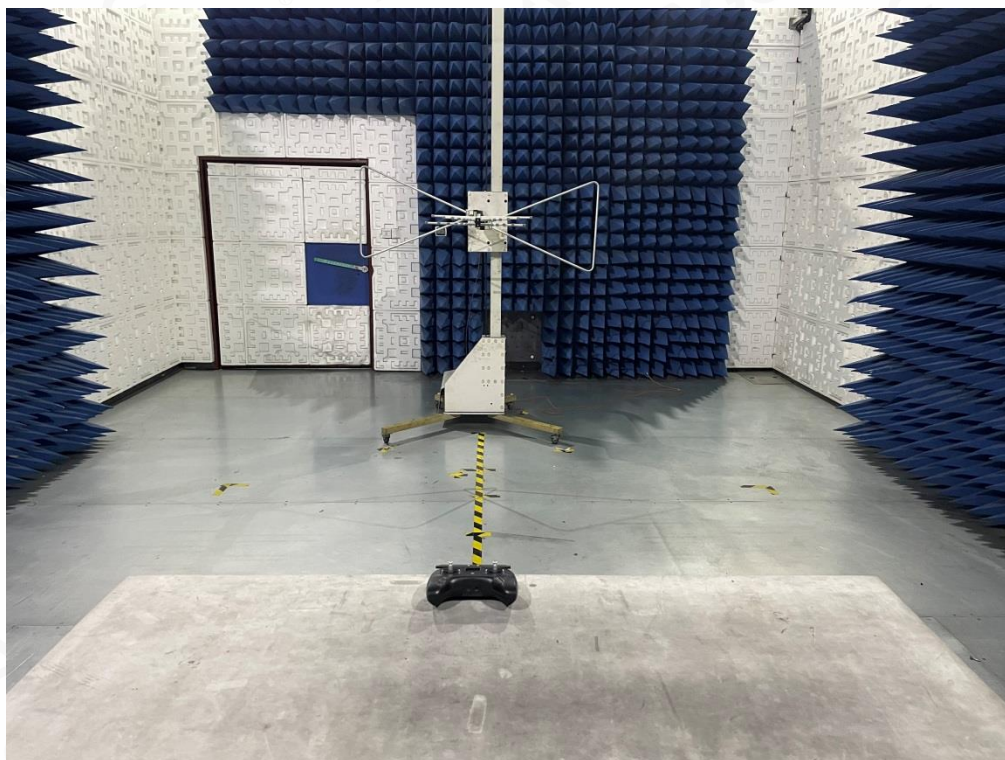
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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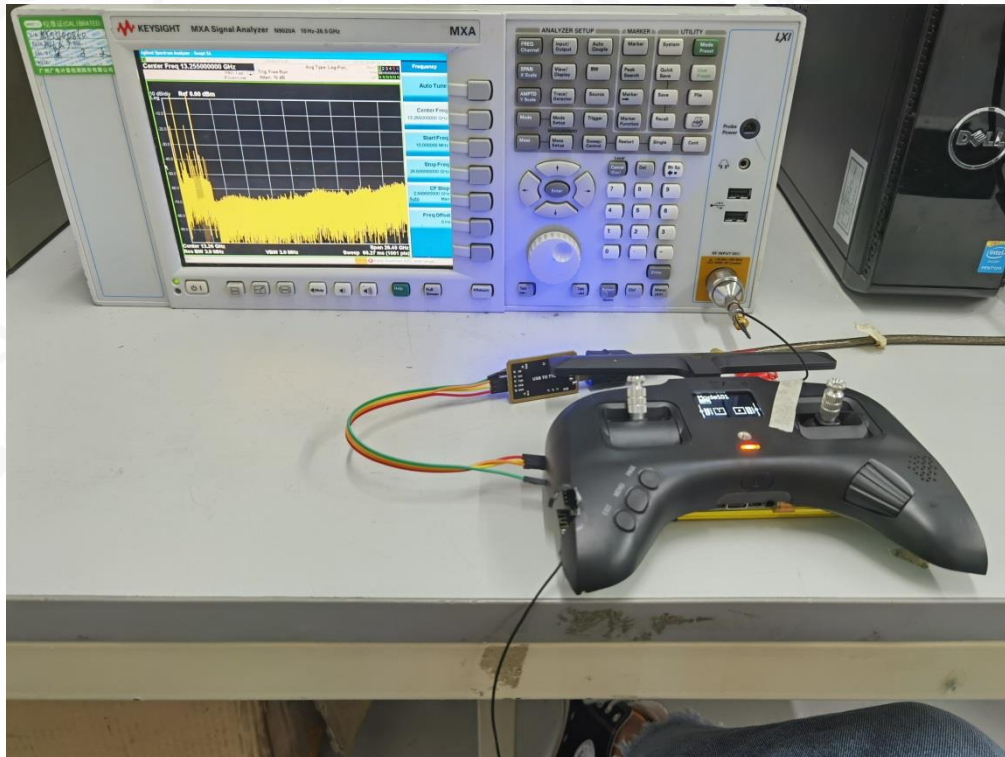
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CONDUCTED EMISSION TEST SETUP



PHOTOGRAPHS OF TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

OUTSIDE VIEW-1 OF EUT



OUTSIDE VIEW-2 OF EUT



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OUTSIDE VIEW-3 OF EUT



OUTSIDE VIEW-4 OF EUT



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OUTSIDE VIEW-5 OF EUT



OUTSIDE VIEW-6 OF EUT



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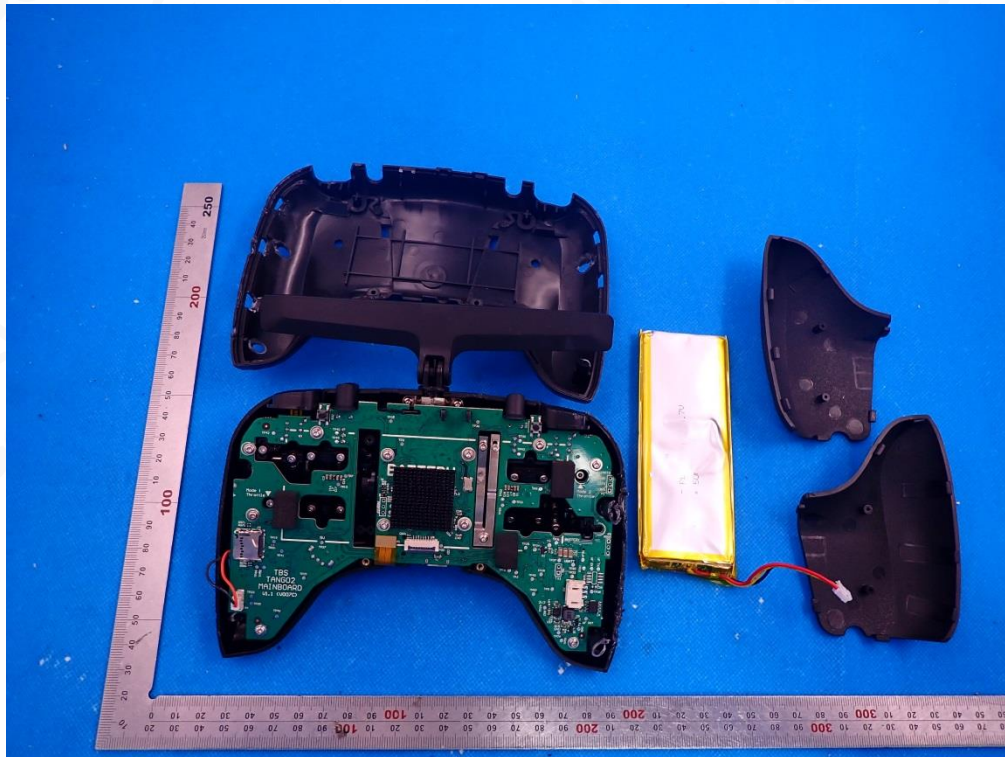
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PORT VIEW OF EUT



OPEN VIEW OF EUT

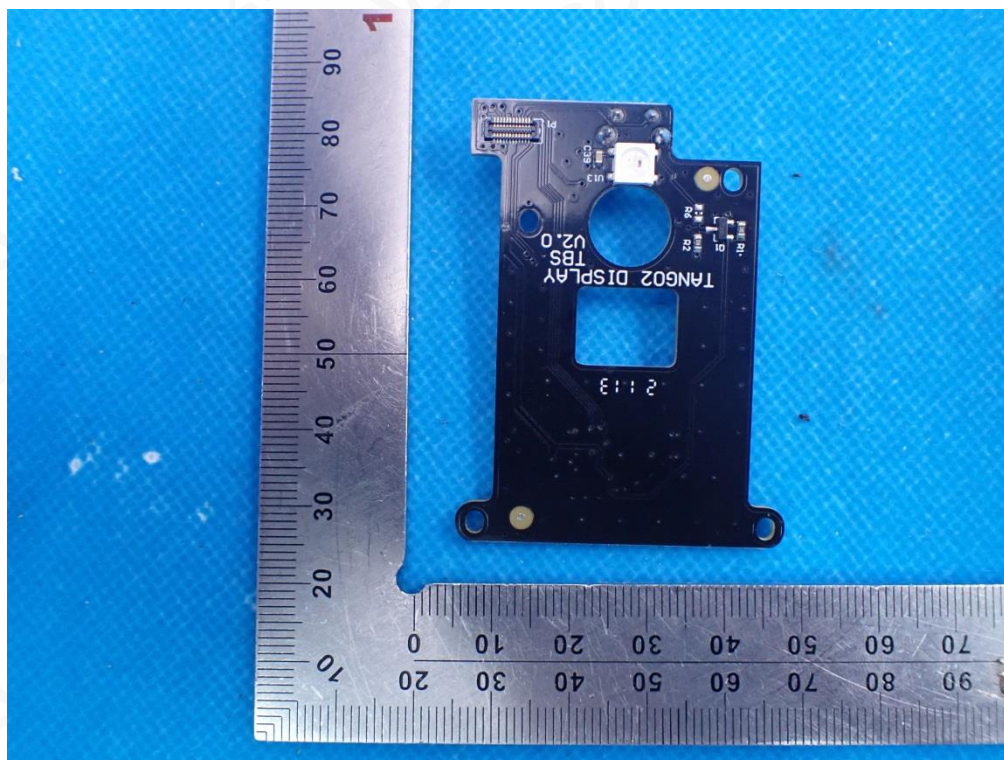


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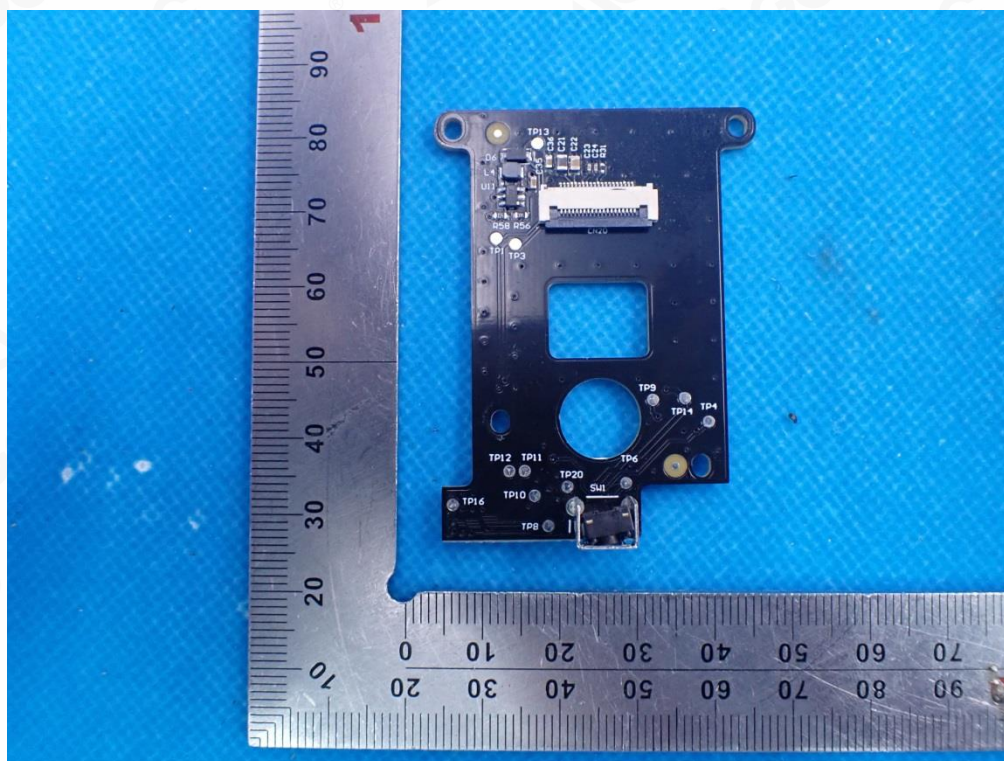
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT



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