



CERTIFICATION TEST REPORT

Report Number. : 4789893923-E1V1

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : NP545XLA, NP545XLA-KA1TT, NP545XLA-KA1VZ

FCC ID : A3LNP545XLA

EUT Description : WCDMA/LTE/5G NR Laptop + BT/BLE, DTS/UNII a/b/g/n/ac

Test Standard(s) : FCC 47 CFR PART 15 SUBPART B

Date Of Issue:

2021-06-14

Prepared by:

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ACCREDITED

Testing Laboratory

TL-637

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2021-06-14	Initial issue	Sangyun Kim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: WCDMA/LTE/5G NR Laptop + BT/BLE, DTS/UNII a/b/g/n/ac
MODEL NUMBER: NP545XLA, NP545XLA-KA1TT, NP545XLA-KA1VZ
SERIAL NUMBER: G0GE930R400415E (RADIATED)
DATE TESTED: 2021-05-26 ~ 2021-05-28;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15B	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Sangyun Kim
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. ANSI C63.4-2014

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
<input checked="" type="checkbox"/>	Chamber 1
<input checked="" type="checkbox"/>	Chamber 2
<input type="checkbox"/>	Chamber 3

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$EIRP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Disturbance, 30 MHz to 1 GHz	4.26 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.90 dB
Radiated Disturbance, Above 18 GHz	5.49 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2007.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a WCDMA/LTE/5G NR Laptop + BT/BLE, DTS/UNII a/b/g/n/ac.

This report covers the Samsung models NP545XLA, NP545XLA-KA1TT and NP545XLA-KA1VZ. These models are identical in hardware except below.

NP545XLA-KA1TT: eSIM IC unmounted on PCB.

NP545XLA-KA1VZ: There is no difference in hardware(Supported RF band is different).

With some pre-scan, model NP545XLA was set for final test.

GENERAL INFORMATION

Type of device	Class B personal computers and peripherals Other Class B digital devices & peripherals
Travel Adapter power requirements	100-240 VAC / 50-60 Hz, 0.7 A
List of frequencies generated or used by the EUT	40 GHz (5 th harmonic of the frequency of 5G FR2 Band n260)

5.2. TEST MODE

Mode	Description
Test Case	Camera(Front) Display out(USB Type C to DP) Continuous reading and writing of micro SD card data Continuous reading and writing of Internal SSD Audio out (Earphone)

Note: All descriptions were tested under simultaneous operation.

Receiver Mode (Licensed Band within 30-960MHz) test result refer to FCC Report Receiver mode(CXX).

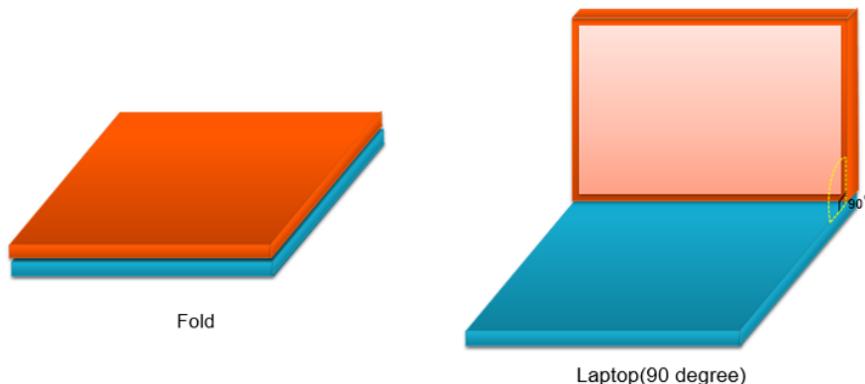
5.3. WORST-CASE ORIENTATION AND MODE

i. Worst Axis Condition

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z, it was determined that below orientation was worst-case X orientation.

ii. Foldable Condition

The Fundamental of the EUT was investigated in two conditions(Fold and Laptop). Final test result of the EUT was investigated in Laptop conditions



5.1. MODIFICATIONS

No modifications were made during testing.

5.2. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID/DoC
AC/DC Adapter	SAMSUNG	EP-TA800	R37R32A00XADK3	N/A
Data Cable	SAMSUNG	EP-DW767JWE	N/A	N/A
LCD Monitor	DELL	U2417H	CN-0767T7-WS2000-83F-BCRL-A07	DoC
Micro SD Card	SAMSUNG	MB-MC256GA	N/A	DoC
Mouse	LENOVO	MOJU00	S8SSM50L245505AVLC03E0338	DoC
Earphone	SAMSUNG	EHS64AVFBE	N/A	N/A

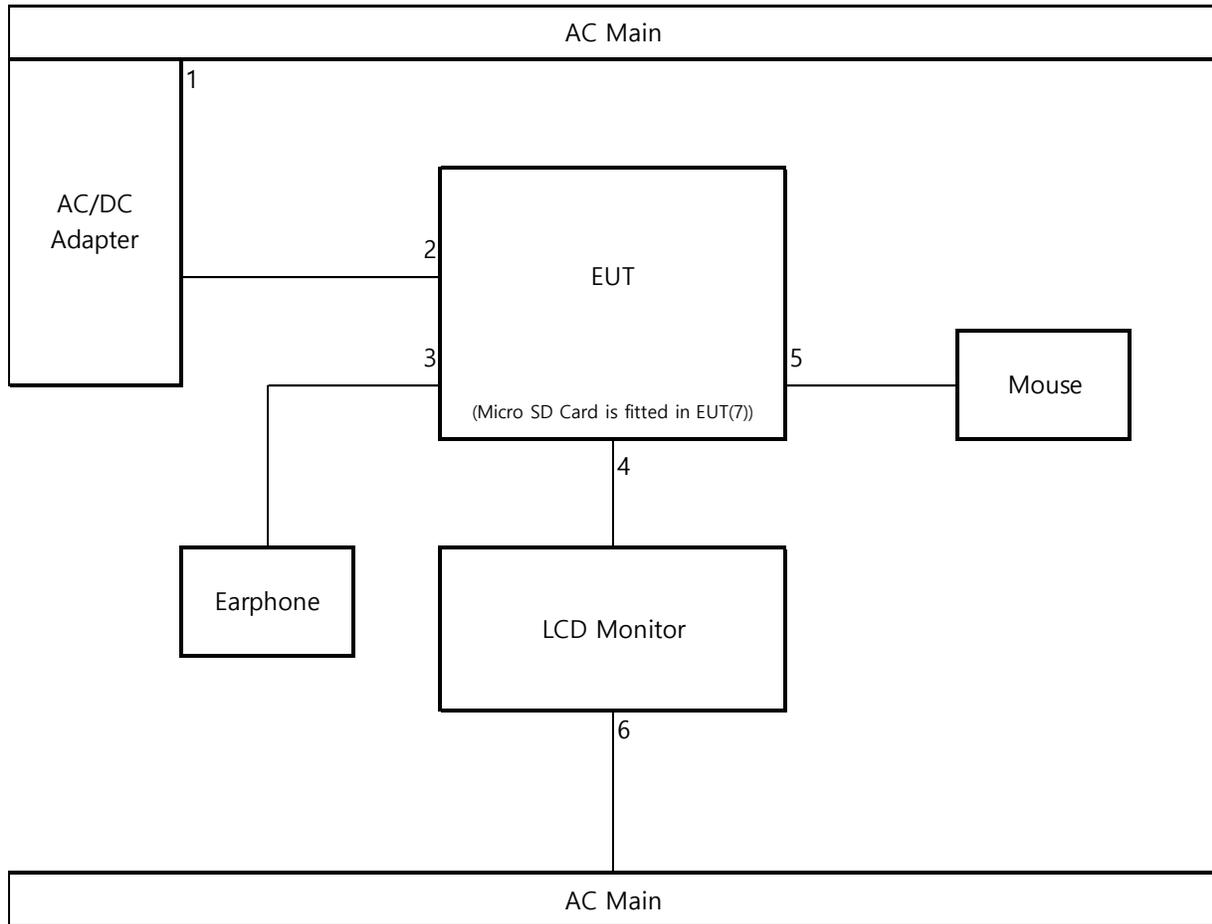
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connect or Type	Cable Type	Cable Length(m)	Remarks
1	AC Power	1	Power	-	Direct	From AC/DC Adapter to AC Main
2	Type C	1	Power	Unshielded	1.5m	From AD/DC Adapter to EUT
3	Earphone	1	Earjack	Shielded	1.0m	From Earphone to EUT
4	Type C	1	DP	Shielded	1.5m	From LCD Monitor to EUT
5	USB	1	USB	Shielded	1.5m	From Mouse to EUT
6	AC Power	1	Power	Unshielded	1.0m	From AC/DC Adapter to AC Main
7	Micro SD Slot	1	-	-	Direct	Fitted In EUT

TEST SETUP

The EUT is installed in a typical configuration.

TEST SETUP DIAGRAM



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2022-08-04
Preamplifier	ETS	3116C-PA	00168841	2021-08-06
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2022-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2022-08-19
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2022-08-13
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2022-08-13
Antenna, Horn, 18 GHz	ETS	3115	00167211	2022-07-27
Antenna, Horn, 18 GHz	ETS	3115	00161451	2022-08-15
Antenna, Horn, 18 GHz	ETS	3117	00168724	2022-07-27
Antenna, Horn, 18 GHz	ETS	3117	00168717	2022-08-15
Preamplifier, 1000 MHz	Sonoma	310N	341282	2021-08-03
Preamplifier, 1000 MHz	Sonoma	310N	370599	2021-08-06
Preamplifier, 1000 MHz	Sonoma	310N	351741	2021-08-03
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	2021-08-03
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2021-08-04
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2021-08-03
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2021-08-03
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2021-08-03
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2021-08-03
LISN	R&S	ENV-216	101836	2021-08-06
LISN	R&S	ENV-216	101837	2021-08-06
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

7. TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

The highest clock frequency generated or used in the EUT is 40 GHz therefore the frequency range was investigated from 30 MHz to 40 GHz.

LIMIT

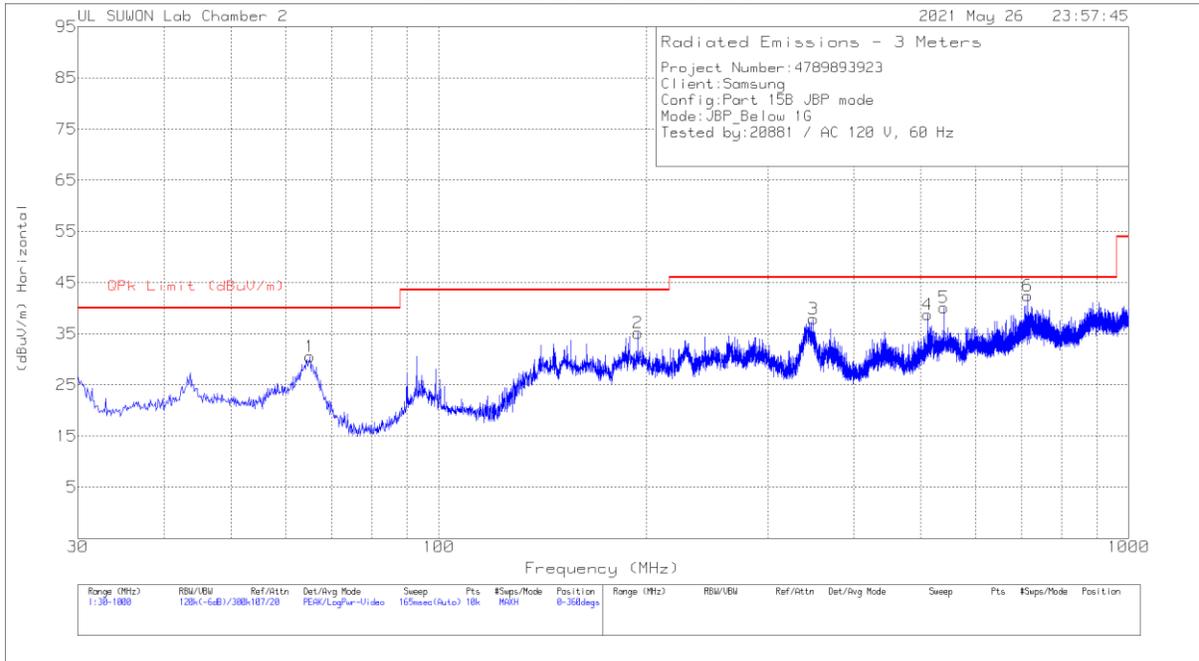
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

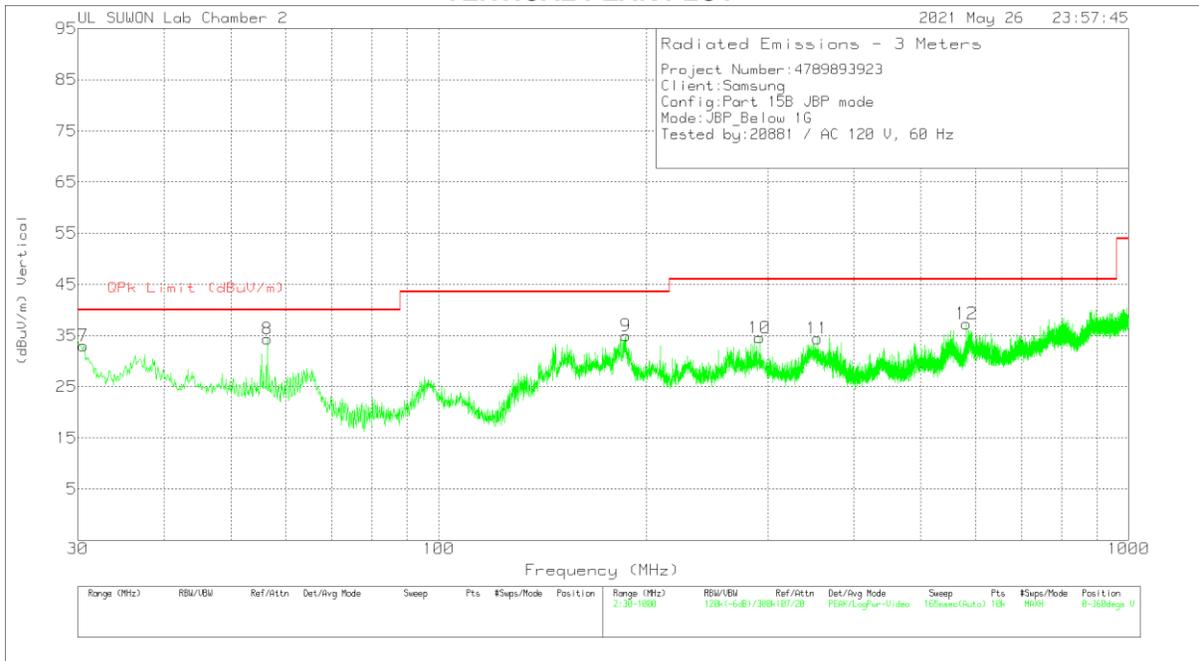
Note: The lower limit shall apply at the transition frequency.

7.1.1. RADIATED EMISSIONS 30 TO 1000 MHz

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.114	45.02	Pk	17.2	-31.7	30.52	40	-9.48	0-360	400	H
2	194.512	48.05	Pk	17.9	-30.8	35.15	43.52	-8.37	0-360	100	H
3	349.227	46.98	Pk	21	-30.1	37.88	46.02	-8.14	0-360	200	H
4	511.702	45.23	Pk	23.2	-29.7	38.73	46.02	-7.29	0-360	100	H
5	540.026	46.2	Pk	23.6	-29.7	40.1	46.02	-5.92	0-360	100	H
6	714.141	46.11	Pk	25.6	-29.3	42.41	46.02	-3.61	0-360	100	H
7	30.582	49.12	Pk	15.7	-31.8	33.02	40	-6.98	0-360	100	V
8	56.481	46.95	Pk	19.1	-31.7	34.35	40	-5.65	0-360	100	V
9	186.752	49.08	Pk	16.6	-30.7	34.98	43.52	-8.54	0-360	100	V
10	291.9	45.77	Pk	19.2	-30.4	34.57	46.02	-11.45	0-360	100	V
11	353.883	43.83	Pk	20.7	-30.1	34.43	46.02	-11.59	0-360	100	V
12	582.318	42.4	Pk	24.5	-29.6	37.3	46.02	-8.72	0-360	100	V

Pk - Peak detector

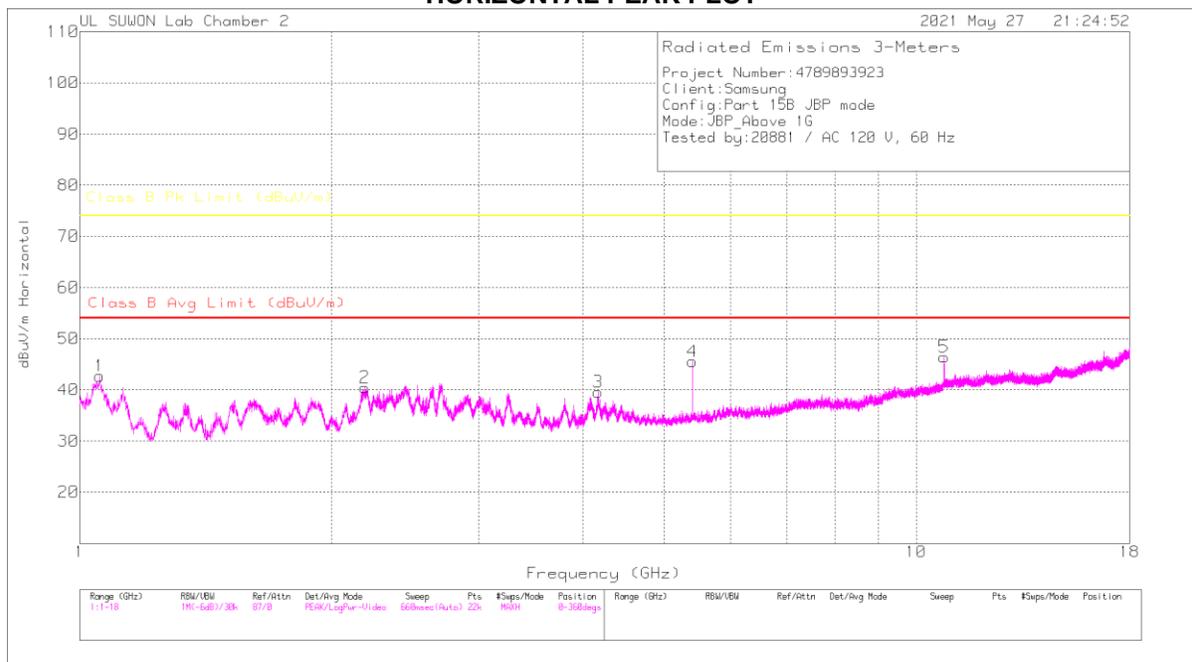
Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
65.114	39.93	Qp	17.2	-31.7	25.43	40	-14.57	231	395	H
194.512	42.19	Qp	17.9	-30.8	29.29	43.52	-14.23	173	100	H
349.227	40.91	Qp	21	-30.1	31.81	46.02	-14.21	159	100	H
511.702	38.76	Qp	23.2	-29.7	32.26	46.02	-13.76	138	100	H
540.026	44.64	Qp	23.6	-29.7	38.54	46.02	-7.48	42	100	H
714.141	40.21	Qp	25.6	-29.3	36.51	46.02	-9.51	94	100	H
30.582	46.03	Qp	15.7	-31.8	29.93	40	-10.07	30	101	V
56.481	32.85	Qp	19.1	-31.7	20.25	40	-19.75	263	101	V
186.752	42.42	Qp	16.6	-30.7	28.32	43.52	-15.2	284	101	V
291.9	39.39	Qp	19.2	-30.4	28.19	46.02	-17.83	311	101	V
353.883	41.66	Qp	20.7	-30.1	32.26	46.02	-13.76	62	101	V
582.318	34.72	Qp	24.5	-29.6	29.62	46.02	-16.4	95	101	V

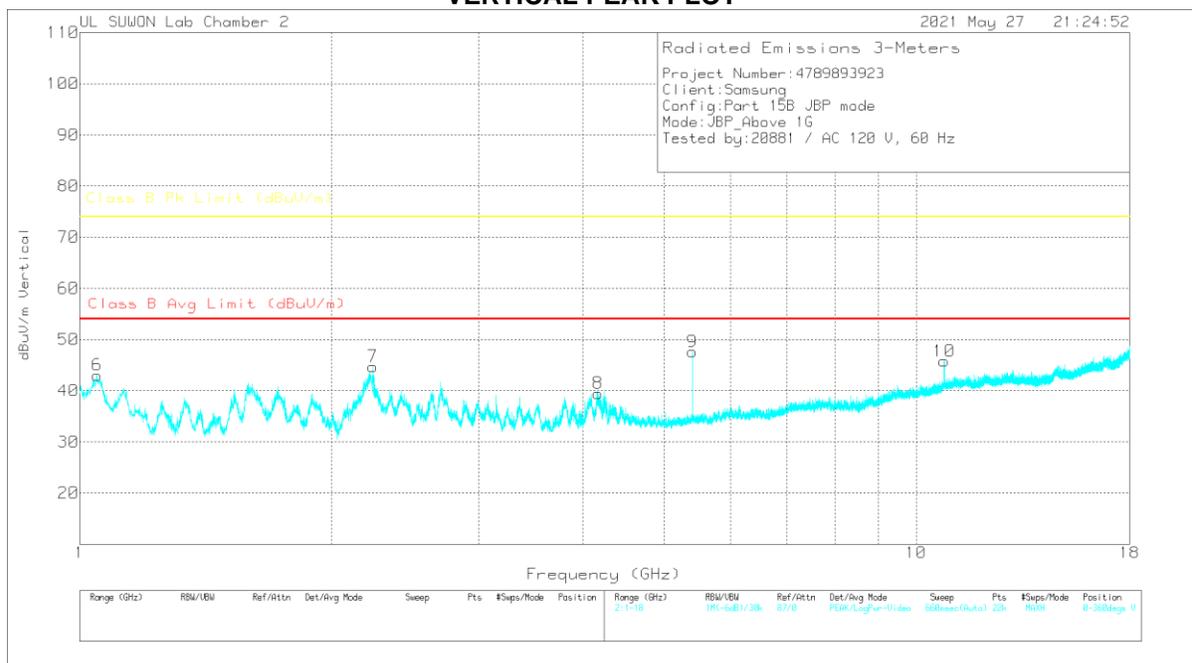
Qp - Quasi-Peak detector

7.1.2. RADIATED EMISSIONS 1 GHz to 18 GHz

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.05641	47.09	PK	28	-32.4	42.69	-	-	74	-31.31	0-360	100	H
2	2.19149	39.25	PK	31.7	-30.5	40.45	-	-	74	-33.55	0-360	100	H
3	4.16572	34.18	PK	33.4	-28	39.58	-	-	74	-34.42	0-360	100	H
4	5.40048	38.75	PK	34.6	-27.8	45.55	-	-	74	-28.45	0-360	100	H
5	10.8016	28.12	PK	38.1	-19.8	46.42	-	-	74	-27.58	0-360	100	H
6	1.04868	47.34	PK	28	-32.3	43.04	-	-	74	-30.96	0-360	100	V
7	2.24172	43.72	PK	31.7	-30.7	44.72	-	-	74	-29.28	0-360	100	V
8	4.16495	34.09	PK	33.4	-28	39.49	-	-	74	-34.51	0-360	200	V
9	5.40048	40.83	PK	34.6	-27.8	47.63	-	-	74	-26.37	0-360	100	V
10	10.80237	27.7	PK	38.1	-20	45.8	-	-	74	-28.2	0-360	100	V

PK – Peak Detector

Radiated Emissions

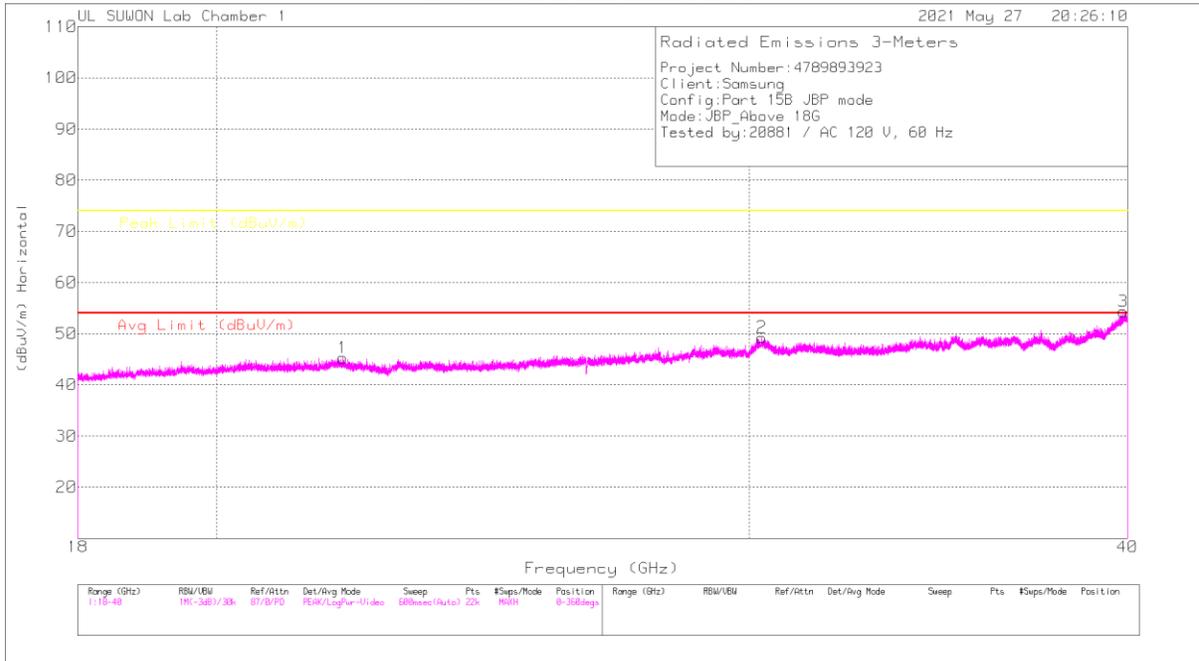
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.05641	55.82	Pk	28	-32.4	51.42	-	-	74	-22.58	85	100	H
1.05641	42.27	Ca	28	-32.4	37.87	54	-16.13	-	-	85	100	H
2.19149	49.98	Pk	31.7	-30.5	51.18	-	-	74	-22.82	60	260	H
2.19149	36.77	Ca	31.7	-30.5	37.97	54	-16.03	-	-	60	260	H
4.16572	43.75	Pk	33.4	-28	49.15	-	-	74	-24.85	9	248	H
4.16572	29.01	Ca	33.4	-28	34.41	54	-19.59	-	-	9	248	H
5.40048	43.46	Pk	34.6	-27.8	50.26	-	-	74	-23.74	234	111	H
5.40048	36.03	Ca	34.6	-27.8	42.83	54	-11.17	-	-	234	110	H
10.8016	35.7	Pk	38.1	-19.8	54	-	-	74	-20	231	182	H
10.8016	26.73	Ca	38.1	-19.8	45.03	54	-8.97	-	-	231	182	H
1.04868	54.69	Pk	28	-32.3	50.39	-	-	74	-23.61	219	100	V
1.04868	42.5	Ca	28	-32.3	38.2	54	-15.8	-	-	219	100	V
2.24172	49.97	Pk	31.7	-30.7	50.97	-	-	74	-23.03	121	100	V
2.24172	35.79	Ca	31.7	-30.7	36.79	54	-17.21	-	-	121	100	V
4.16495	44.41	Pk	33.4	-28	49.81	-	-	74	-24.19	303	255	V
4.16495	30.72	Ca	33.4	-28	36.12	54	-17.88	-	-	303	255	V
5.40048	44.37	Pk	34.6	-27.8	51.17	-	-	74	-22.83	204	100	V
5.40048	38.24	Ca	34.6	-27.8	45.04	54	-8.96	-	-	204	100	V
10.80237	36.01	Pk	38.1	-20	54.11	-	-	74	-19.89	139	100	V
10.80237	24.15	Ca	38.1	-20	42.25	54	-11.75	-	-	139	100	V

Pk - Peak detector

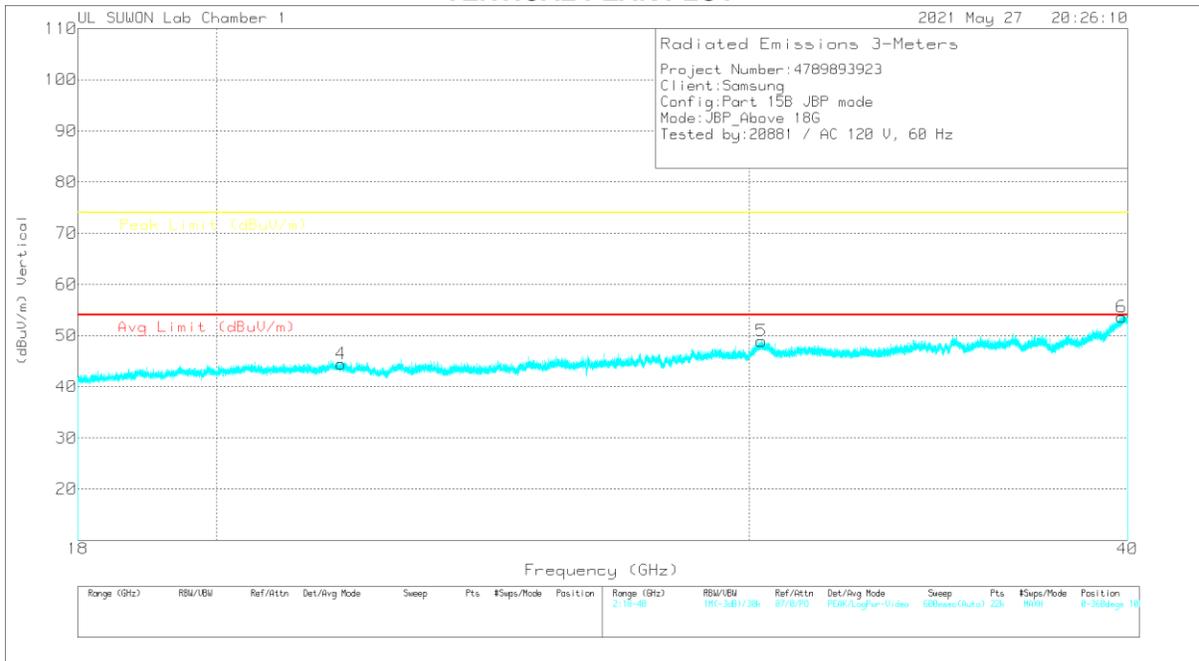
Ca - CISPR average detection

7.1.3. RADIATED EMISSIONS Above 18 GHz

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	22.02182	18.46	PK	10.3	16.5	45.26	-	-	74	-28.74	0-360	100	H
2	30.28845	16.14	PK	13.4	19.7	49.24	-	-	74	-24.76	0-360	100	H
3	39.86202	18.32	PK	13	23	54.32	-	-	74	-19.68	0-360	100	H
4	21.98782	17.66	PK	10.3	16.5	44.46	-	-	74	-29.54	0-360	100	V
5	30.27645	15.94	PK	13.4	19.6	48.94	-	-	74	-25.06	0-360	100	V
6	39.82002	17.83	PK	12.9	22.9	53.63	-	-	74	-20.37	0-360	100	V

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
22.02182	24.78	Pk	10.3	16.5	51.58	-	-	74	-22.42	0	100	H
22.02182	12.98	Ca	10.3	16.5	39.78	54	-14.22	-	-	0	100	H
30.28845	22.55	PK	13.4	19.7	55.65	-	-	74	-18.35	0	100	H
30.28845	10.63	Ca	13.4	19.7	43.73	54	-10.27	-	-	0	100	H
39.86202	25.66	Pk	13	23	61.66	-	-	74	-12.34	0	100	H
39.86202	12.72	Ca	13	23	48.72	54	-5.28	-	-	0	100	H
21.98782	24.5	Pk	10.3	16.5	51.3	-	-	74	-22.7	0	100	V
21.98782	12.95	Ca	10.3	16.5	39.75	54	-14.25	-	-	0	100	V
30.27645	22.13	Pk	13.4	19.6	55.13	-	-	74	-18.87	0	100	V
30.27645	10.64	Ca	13.4	19.6	43.64	54	-10.36	-	-	0	100	V
39.82002	24.54	Pk	12.9	22.9	60.34	-	-	74	-13.66	0	100	V
39.82002	12.58	Ca	12.9	22.9	48.38	54	-5.62	-	-	0	100	V

Pk - Peak detector

Ca - CISPR average detection

7.2. CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

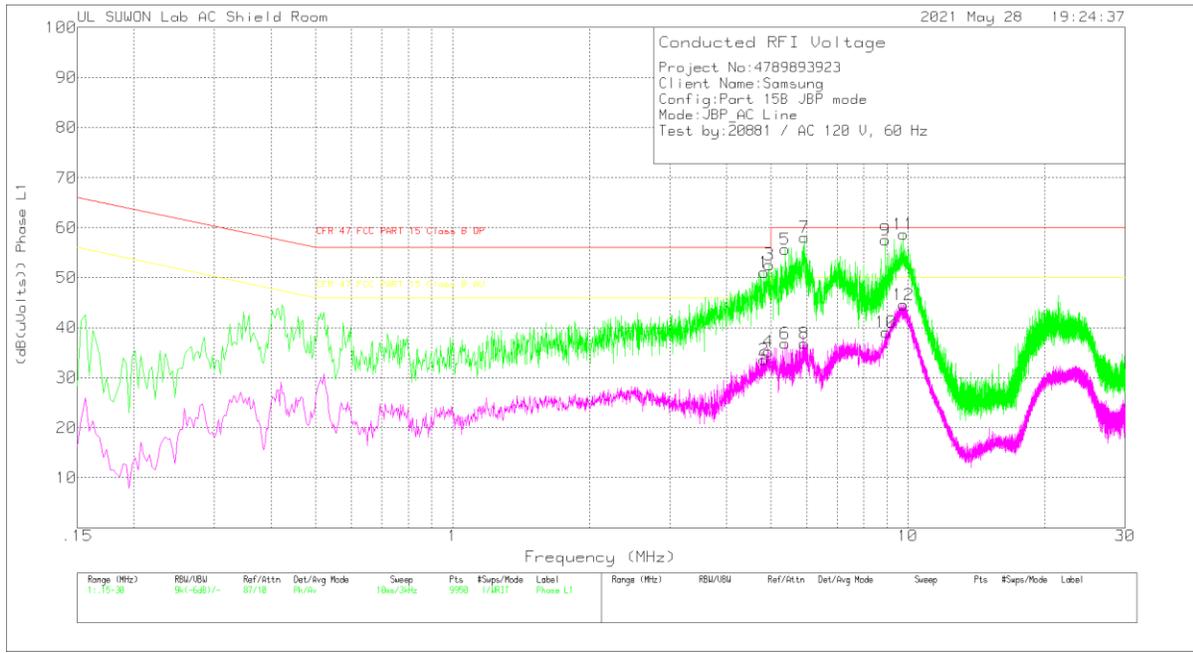
Notes:
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2.1. CONDUCTED EMISSIONS

6 WORST EMISSIONS

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	4.827	40.9	Pk	9.8	.3	51	56	-5	-	-
2	4.833	23.49	Av	9.8	.3	33.59	-	-	46	-12.41
3	4.962	42.51	Pk	9.8	.3	52.61	56	-3.39	-	-
4	4.944	25.18	Av	9.8	.3	35.28	-	-	46	-10.72
5	5.376	45.51	Pk	9.8	.3	55.61	60	-4.39	-	-
6	5.376	26.72	Av	9.8	.3	36.82	-	-	50	-13.18
7	5.934	47.96	Pk	9.8	.3	58.06	60	-1.94	-	-
8	5.922	26.74	Av	9.8	.3	36.84	-	-	50	-13.16
9	8.937	47.26	Pk	9.9	.4	57.56	60	-2.44	-	-
10	8.955	28.77	Av	9.9	.4	39.07	-	-	50	-10.93
11	9.792	48.38	Pk	9.9	.4	58.68	60	-1.32	-	-
12	9.789	34.27	Av	9.9	.4	44.57	-	-	50	-5.43

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

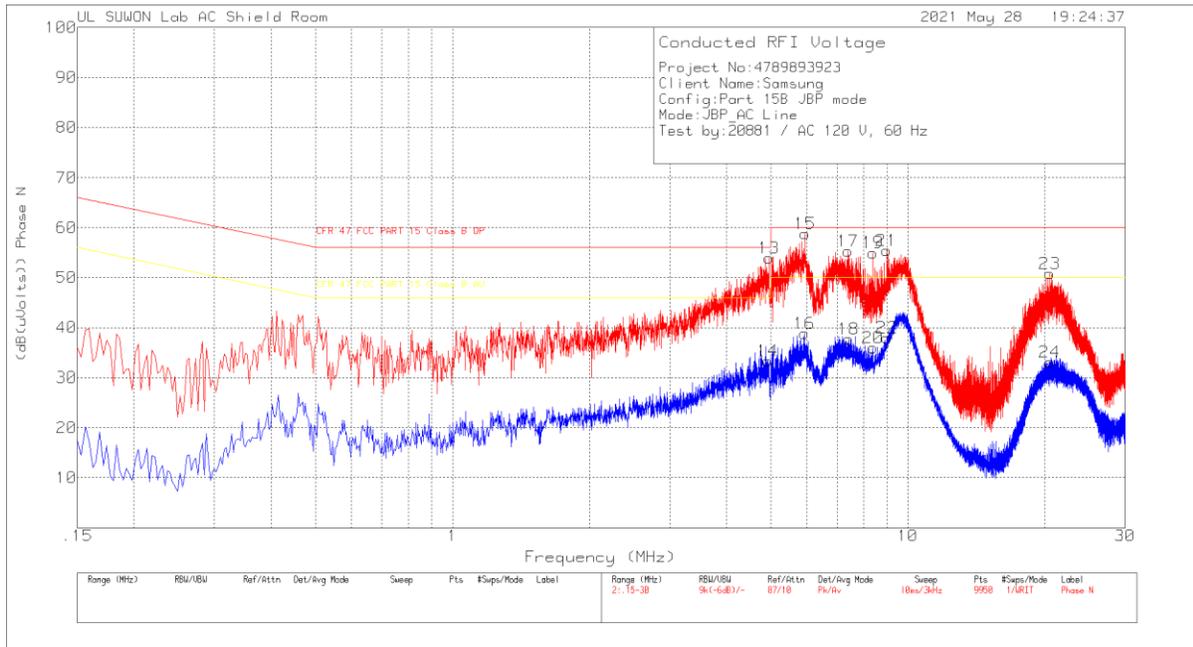
Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
4.82625	28.94	Qp	9.8	.3	39.04	56	-16.96	-	-
4.96275	29.44	Qp	9.8	.3	39.54	56	-16.46	-	-
5.37615	33.26	Qp	9.8	.3	43.36	60	-16.64	-	-
5.93325	35.12	Qp	9.8	.3	45.22	60	-14.78	-	-
8.93715	34.33	Qp	9.9	.4	44.63	60	-15.37	-	-
9.79275	38.23	Qp	9.9	.4	48.53	60	-11.47	-	-

Qp - Quasi-Peak detector

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOSS (dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	4.959	43.78	Pk	9.8	.3	53.88	56	-2.12	-	-
14	4.926	23.31	Av	9.8	.3	33.41	-	-	46	-12.59
15	5.949	48.67	Pk	9.8	.3	58.77	60	-1.23	-	-
16	5.925	28.79	Av	9.8	.3	38.89	-	-	50	-11.11
17	7.389	45.1	Pk	9.9	.3	55.3	60	-4.7	-	-
18	7.407	27.49	Av	9.9	.3	37.69	-	-	50	-12.31
19	8.391	44.78	Pk	9.9	.3	54.98	60	-5.02	-	-
20	8.391	25.72	Av	9.9	.3	35.92	-	-	50	-14.08
21	8.979	45.11	Pk	9.9	.4	55.41	60	-4.59	-	-
22	8.997	27.7	Av	9.9	.4	38	-	-	50	-12
23	20.508	40.13	Pk	10.3	.4	50.83	60	-9.17	-	-
24	20.493	22.38	Av	10.3	.4	33.08	-	-	50	-16.92

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOSS (dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
4.95825	31.85	Qp	9.8	.3	41.95	56	-14.05	-	-
5.94825	40.64	Qp	9.8	.3	50.74	60	-9.26	-	-
7.38915	35.3	Qp	9.9	.3	45.5	60	-14.5	-	-
8.39175	30.62	Qp	9.9	.3	40.82	60	-19.18	-	-
8.97825	34.17	Qp	9.9	.4	44.47	60	-15.53	-	-
20.5073	28.28	Qp	10.3	.4	38.98	60	-21.02	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT