
TEST REPORT

Report No.: SRTC2021-9003(F)-0040
Product Name: Mobile phone
Applicant: Sharp Corporation
Manufacturer: Sharp Corporation
Specification: FCC Part15B (Certification)
(2020 edition)
ANSI C63.4-2014
FCC ID: APYHRO00300

The State Radio_monitoring_center Testing Center (SRTC)
15th Building, No.30 Shixing Street, Shijingshan District,
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1. General information

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio_monitoring_center Testing Center (SRTC)
Address: 15th Building, No.30 Shixing Street, Shijingshan District
Testing location: No.80, Zhaojiachang, BeizangCun, Daxing District, Beijing, China.
City: Beijing
Country or Region: China
Contacted person: Liu Jia
Tel: +86 10 57996183
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Email: liujiaf@srtc.org.cn

1.3 Applicant's details

Company: Sharp Corporation
Address: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan
City: Osaka
Country or Region: Japan
Contacted person: Mr. Masaaki Nishikawa
Tel: 81-50-5433-4157
Email: ---

1.4 Manufacturer's details

Company: Sharp Corporation
Address: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan
City: Osaka
Country or Region: Japan
Contacted person: Mr. Masaaki Nishikawa
Tel: 81-50-5433-4157
Email: ---

1.5 Application details

Date of reception of test sample: 13th Aug. 2021

Date of test: 13th Aug. 2021 to 6th Sept. 2021

1.6 Reference specification

FCC Part 15B, 2020 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	Mobile phone
FCC ID	APYHRO00300
Frequency Range	GSM: GSM850/PCS1900 WCDMA: FDD V LTE:FDD 5/ FDD 12/ FDD 17/ Bluetooth: 2.4~2.4835GHz WiFi: 2.4~2.4835GHz/ 5.15-5.25GHz/5.25-5.35GHz 5.475-5.725GHz/5.725-5.85GHz
Equipment Class	Class B
Power Supply	Battery or Charger
Rated Power Supply Voltage	4V
Extreme Temperature	Lowest: -10°C Highest: +55°C
Extreme Voltage	Minimum: 3.7V Maximum: 4V
HW Version	DVT(Remodeled to the equivalent of MP products)
SW Version	A730G

1.7.2 EUT details

	Product Name	IMEI
EUT	Mobile phone	EUT 1#: 004401230411213 EUT 2#: 004401230411189 EUT 3#: 004401230411197

Note1: As the applicant of this model, [Sharp Corporation] declares that the product has three the suppliers of memory / two the suppliers of NFC.

Main Supply: 1#: 004401230411213

Part Name	Model Name	supplier
memory	/	Sumsung
NFC	SN110P	/

Secondary Supply: 2#: 004401230411189

Part Name	Model Name	supplier
memory	/	SK Hynix
NFC	SN100F	/

Thirid Supply: 3#: 004401230411197

Part Name	Model Name	supplier
memory	/	Micron
NFC	SN100F	/

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Laptop

Manufacturer	Lenovo
Model Number	E40-70
S/N	MP06WE9U
Input Voltage	100V-240V AC

AE (Auxiliary Equipment) 2#: USB Cable

Manufacturer	Kingpower
Model Number	K201-05130-00

AE (Auxiliary Equipment) 3#: Battery

Type	Li-Lon
Manufacturer	Amperex Technology Limited
Model Number	UBATIA305AFN2

AE (Auxiliary Equipment) 4#: Charger

Manufacturer	DVE
Model Number	DSA-10PF06-05 FUS
Input Voltage	100V-240V AC
Output Voltage	5V DC

AE (Auxiliary Equipment) 5#: Headset

Manufacturer	Panasonic
Model Number	RP-HJS150-K

Note2: As the information described in these above tables, the relevant tests have been performed in order to verify in which supply would have the worst features.

When the EUT (Main suply1#) exercised with 2# USB Cable, 3# Battery, 4# Charger, 5# Headset is the worst feature, and record the results in the test report.

Note3: AE1# Laptop was selected by testing laboratory and was only cooperated with this test, not for sale.

2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Conducted emissions	15.107	Pass
2	Radiated emissions	15.109	Pass

Approved By: Mr. Liu Wei Director of the test department 刘巍	Checked By: Mr. Guo Yu Vice director of the test department 郭雨
Tested by: Mr. Liu Jian Test engineer 刘建	Issued date: 2021.09.10

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
24.4°C	42.8%	101.0kPa

Test Setup with laptop:

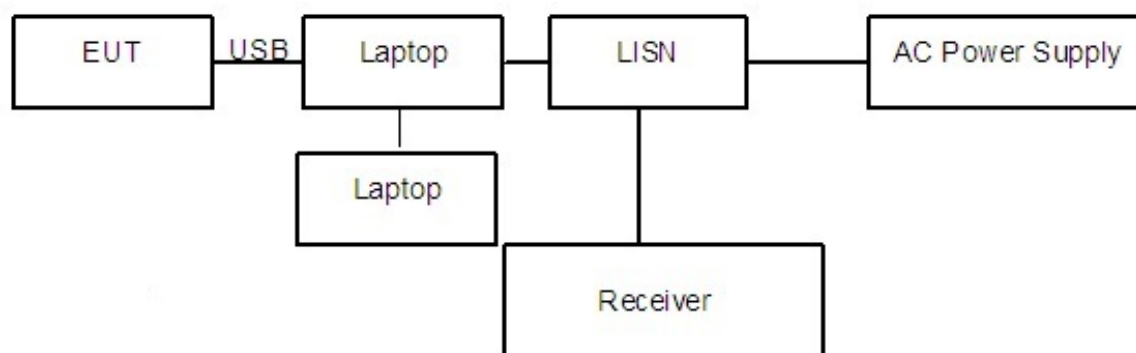


Figure 1

Test Procedure:

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The EUT was connected with a laptop via the USB cable and transferred the data by copying large files from laptop to the EUT. The laptop's LAN port is connected with another laptop via cable. And the data transferring between two laptops is maintained.

The AC main power supply of the laptop is connected to LISN and LISN is connected to the reference ground. The test set-up and the test methods are performed according to ANSI C63.4:2014.

Then start the test software EMC32. Sweep the whole frequency band through the range from 150 KHz to 30 MHz with RBW 9kHz, VBW 30kHz. The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.

The data of cable loss has been calibrated in full testing frequency range before the testing.

Test Setup with charger:

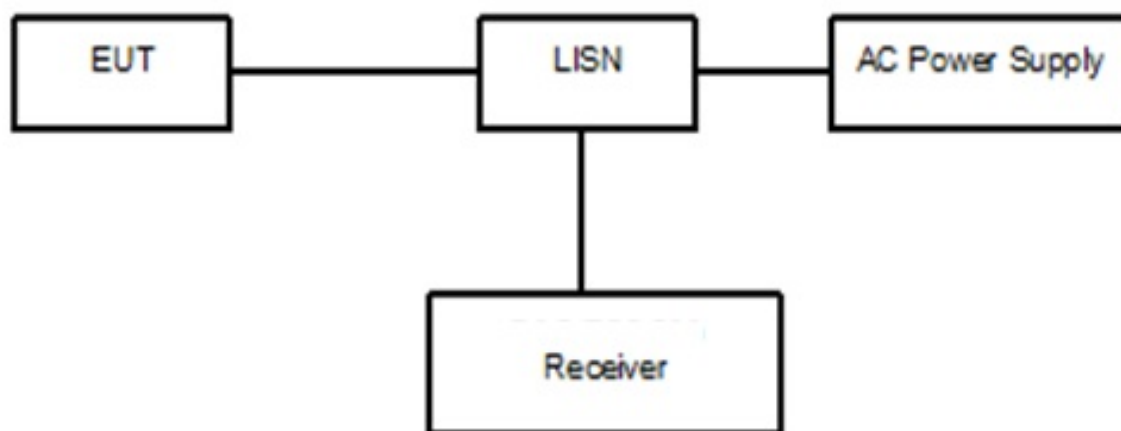


Figure 2

Test Procedure:

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The EUT is connected with LISN via the charger. The LISN is connected to the reference ground.

The test set-up and the test methods are performed according to ANSI C63.4:2014. Then start the test software EMC32. Sweep the whole frequency band through the range from 150 KHz to 30 MHz with RBW 9kHz, VBW 30kHz. The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.

The data of cable loss has been calibrated in full testing frequency range before the testing.

A "reference path loss" Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr.}(\text{dB})$$

Sample calculation: $(39.43\text{dB}\mu\text{V}) = (9.73\text{dB}\mu\text{V}) + (29.7\text{dB})$, the corresponding frequency is 0.162793MHz.

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.162793	39.43	---	65.32	25.89	L1	29.7	9.73	---

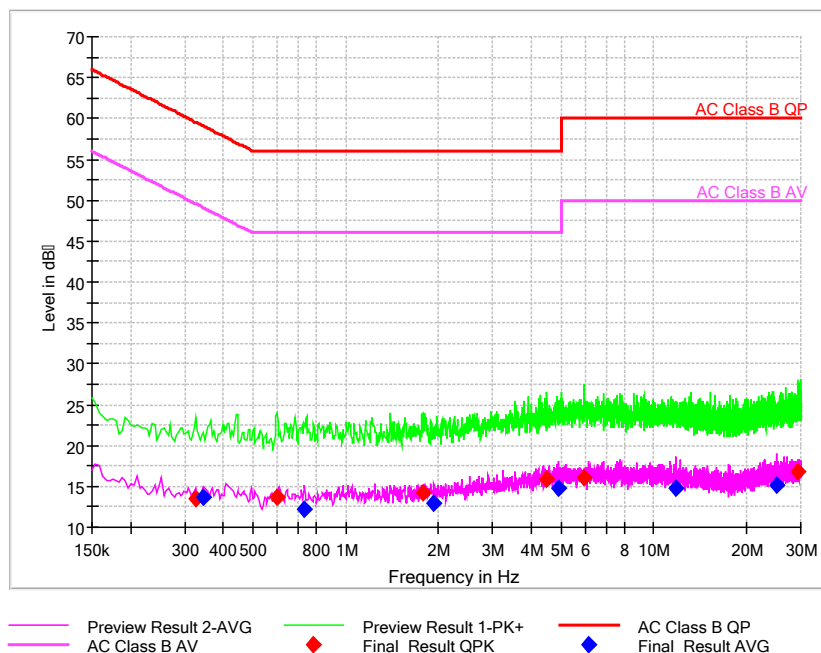
Limit:

Frequency of Emission(MHz)	Limits(dB μ V)	
	Quasi-peak	Average
0.15~0.5	66 to 56*	56 to 46*
0.5~5	56	46
5~30	60	50

Note: * Decreases with the logarithm of the frequency

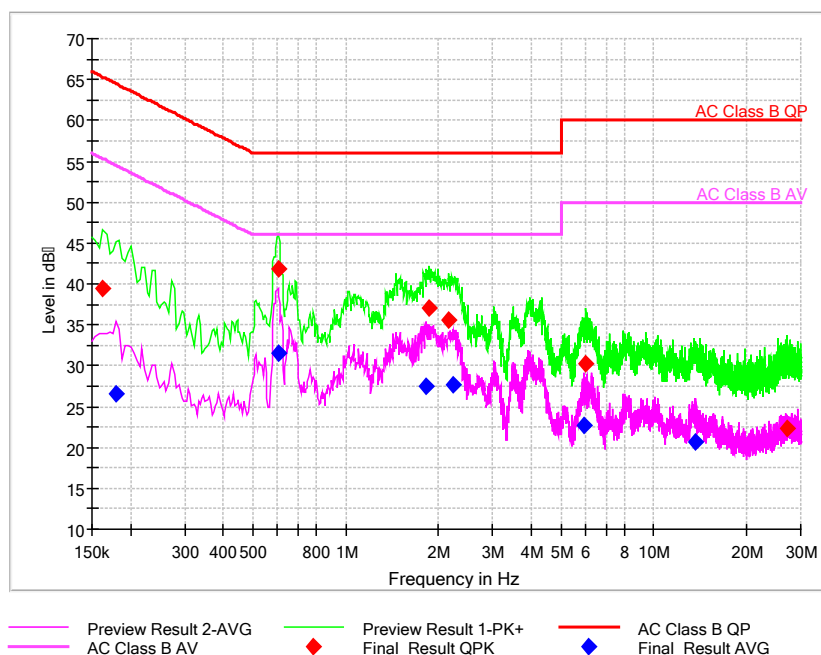
Test result:

Noise Level of the Measuring Instrument



Pic1. Conducted emission L and N Line

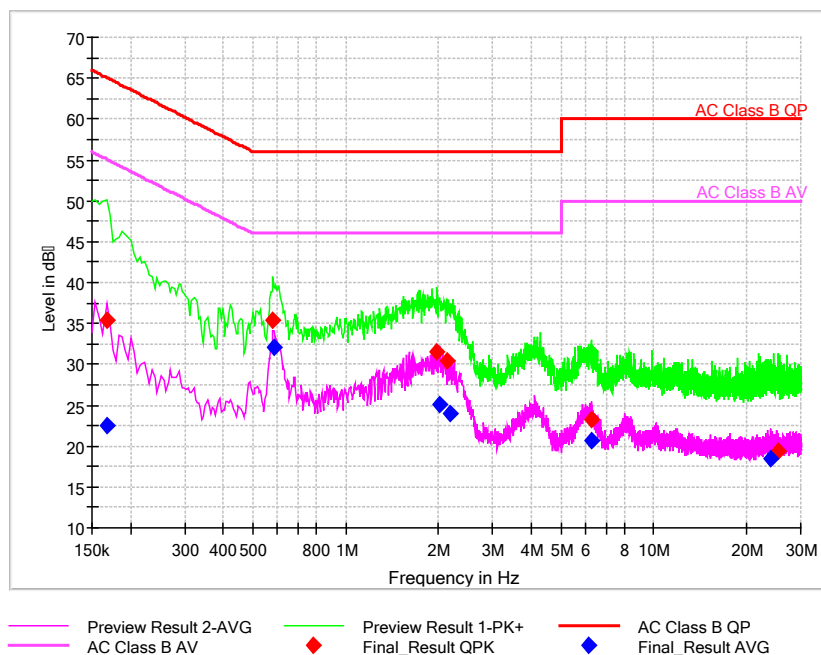
EUT + Charger: AC240V



Pic2. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.162793	39.43	---	65.32	25.89	L1	29.7	9.73	---
0.179850	---	26.57	54.49	27.92	N	29.8	---	-3.23
0.602014	---	31.45	46.00	14.55	N	29.8	---	1.65
0.602014	41.84	---	56.00	14.16	N	29.8	12.04	---
1.825864	---	27.54	46.00	18.46	N	29.8	---	-2.26
1.855714	37.03	---	56.00	18.97	N	29.8	7.23	---
2.149950	35.60	---	56.00	20.40	N	29.8	5.8	---
2.230971	---	27.70	46.00	18.30	L1	29.8	---	-2.1
5.962221	---	22.78	50.00	27.22	L1	29.8	---	-7.02
6.030450	30.27	---	60.00	29.73	N	29.9	0.37	---
13.676314	---	20.69	50.00	29.31	L1	30.0	---	-9.31
26.976621	22.32	---	60.00	37.68	N	30.6	-8.28	---

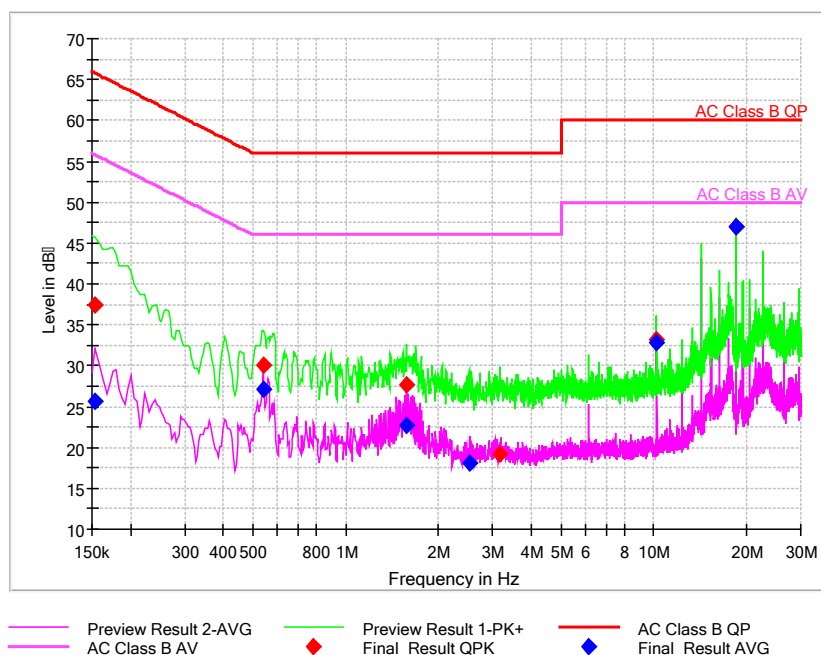
EUT + Charger: AC120V



Pic3. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.167057	35.44	---	65.11	29.66	N	29.8	5.64	---
0.167057	---	22.60	55.11	32.50	N	29.8	---	-7.2
0.580693	35.44	---	56.00	20.56	N	29.8	5.64	---
0.584957	---	32.06	46.00	13.94	L1	29.7	---	2.36
1.979379	31.51	---	56.00	24.49	N	29.8	1.71	---
2.022021	---	25.04	46.00	20.96	N	29.8	---	-4.76
2.141421	30.41	---	56.00	25.59	L1	29.8	0.61	---
2.179800	---	24.07	46.00	21.93	N	29.8	---	-5.73
6.247929	23.25	---	60.00	36.75	N	29.9	-6.65	---
6.247929	---	20.59	50.00	29.41	N	29.9	---	-9.31
24.012943	---	18.41	50.00	31.59	N	30.6	---	-12.19
25.287964	19.32	---	60.00	40.68	N	30.6	-11.28	---

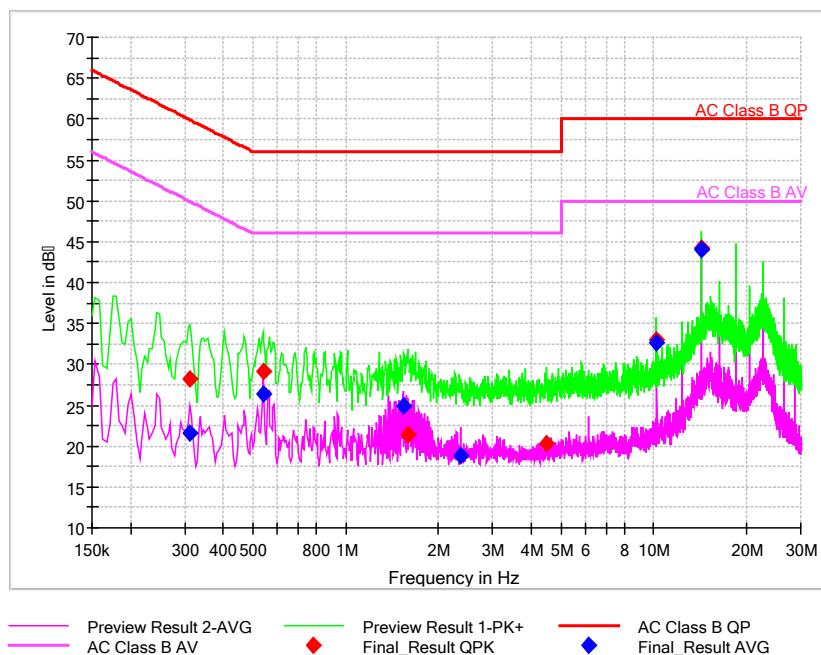
EUT1# + Laptop:



Pic4. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.154264	---	25.63	55.77	30.14	N	29.8	---	-4.17
0.154264	37.33	---	65.77	28.43	N	29.8	7.53	---
0.53805	---	27.03	46	18.97	N	29.8	---	-2.77
0.542314	30.08	---	56	25.92	L1	29.7	0.38	---
1.574271	---	22.74	46	23.26	L1	29.8	---	-7.06
1.578536	27.71	---	56	28.29	N	29.8	-2.09	---
2.520943	---	18.08	46	27.92	L1	29.8	---	-11.72
3.173379	19.17	---	56	36.83	N	29.9	-10.73	---
10.2393	33.11	---	60	26.89	N	30	3.11	---
10.2393	---	32.89	50	17.11	N	30	---	2.89
18.43099	---	47.08	50	2.92	N	30.2	---	16.88
18.43099	46.91	---	60	13.09	N	30.2	16.71	---

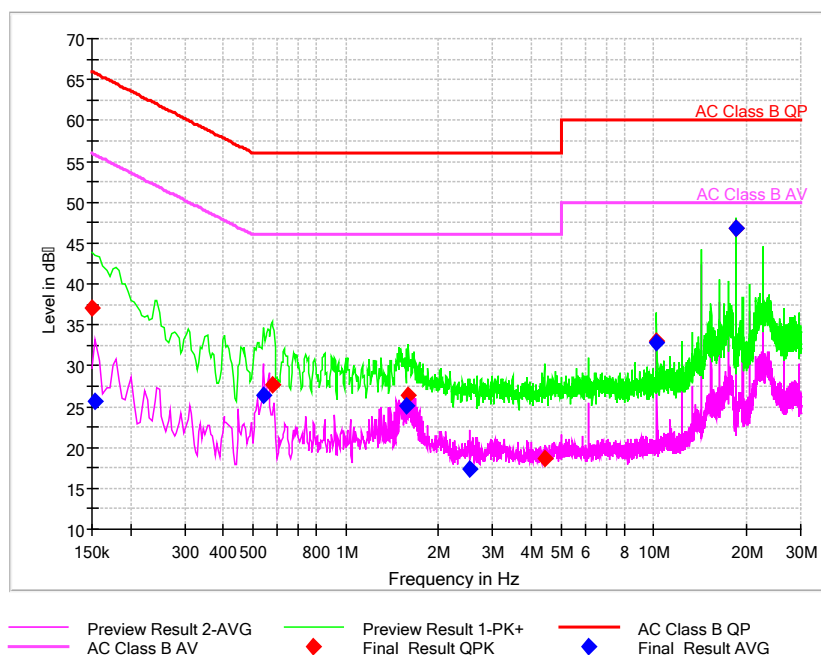
EUT2# + Laptop:



Pic5. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.312043	28.18	---	59.92	31.74	N	29.8	-1.62	---
0.312043	---	21.58	49.92	28.34	N	29.8	---	-8.22
0.53805	29.17	---	56	26.83	N	29.8	-0.63	---
0.53805	---	26.45	46	19.55	L1	29.7	---	-3.25
1.531629	---	24.96	46	21.04	N	29.8	---	-4.84
1.587064	21.37	---	56	34.63	L1	29.8	-8.43	---
2.363164	---	18.89	46	27.11	N	29.8	---	-10.91
4.47825	20.23	---	56	35.77	L1	29.8	-9.57	---
10.2393	---	32.6	50	17.4	N	30	---	2.6
10.2393	32.99	---	60	27.01	N	30	2.99	---
14.33728	44.26	---	60	15.74	L1	30	14.26	---
14.33728	---	44.12	50	5.88	L1	30	---	14.12

EUT3# + Laptop:



Pic6. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.15	36.99	---	66	29.01	N	29.8	7.19	---
0.154264	---	25.57	55.77	30.2	L1	29.7	---	-4.13
0.53805	---	26.42	46	19.58	L1	29.7	---	-3.28
0.576429	27.72	---	56	28.28	L1	29.7	-1.98	---
1.578536	---	25.08	46	20.92	L1	29.8	---	-4.72
1.599857	26.42	---	56	29.58	N	29.8	-3.38	---
2.520943	---	17.44	46	28.56	N	29.8	---	-12.36
4.410021	18.64	---	56	37.36	N	29.9	-11.26	---
10.2393	---	32.8	50	17.2	L1	29.9	---	2.9
10.2393	33.03	---	60	26.97	N	30	3.03	---
18.43099	---	46.86	50	3.14	N	30.2	---	16.66
18.43099	46.9	---	60	13.1	N	30.2	16.7	---

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
24.2°C	42.1%	101.0kPa

Test Setup:

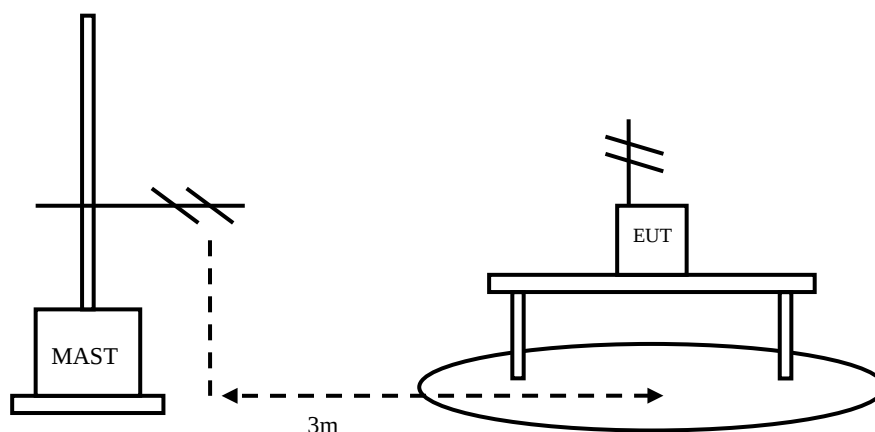


Figure 3

Test Procedure:

EUT+Laptop:

The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.

The EUT was connected with a laptop via the USB cable and transferred the data between the laptop and the EUT. The test set-up and the test methods are performed according to ANSI C63.4:2014

Then start the test software EMC32. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna VULB 9163.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The EUT is laid in two modes as follow:
1. put the EUT in horizontal direction; 2. put the EUT in vertical direction.

The data of cable loss and antenna factor have been calibrated in full testing

frequency range before the testing.

EUT + Charger:

The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.

The EUT should work in idle mode. The test set-up and the test methods are performed according to ANSI C63.4:2014.

Then start the test software EMC32. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna VULB 9163.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The EUT is laid in two modes as follow: 1. put the EUT in horizontal direction; 2. put the EUT in vertical direction.

The data of cable loss and antenna factor have been calibrated in full testing frequency range before the testing. All test results are performed with max hold at the horizontal and vertical polarity.

RBW=120kHz, VBW=300kHz, when the test frequency: 30MHz<f<1GHz

RBW=1MHz, VBW=3MHz, when the test frequency: f>1GHz

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dBμV/m)
30~88	Quasi-peak	40
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46
960~1000	Quasi-peak	54
1000~5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54
	Peak	74

Test result:

Sample calculation: $(24.61\text{dB}\mu\text{V/m}) = (36.61\text{dB}\mu\text{V}) + (-12\text{dB/m})$, the corresponding frequency is 30 MHz.

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30	24.61	40.00	-12	36.61	V

EUT1# + Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30.679	21.45	40.00	-21.1	42.55	V
51.146	22.85	40.00	-17.7	40.55	V
55.2685	25.53	40.00	-18.2	43.73	V
75.7355	25.47	40.00	-23.5	48.97	V
116.718	21.58	43.50	-20.8	42.38	V
799.7435	26.12	46.00	-5.2	31.32	V

EUT2# + Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30.679	21.51	40.00	-21.1	42.61	V
51.146	22.7	40.00	-17.7	40.4	V
55.2685	25.38	40.00	-18.2	43.58	V
75.7355	25.28	40.00	-23.5	48.78	V
196.84	17.18	43.50	-19.3	36.48	V
799.8405	24.99	46.00	-5.2	30.19	V

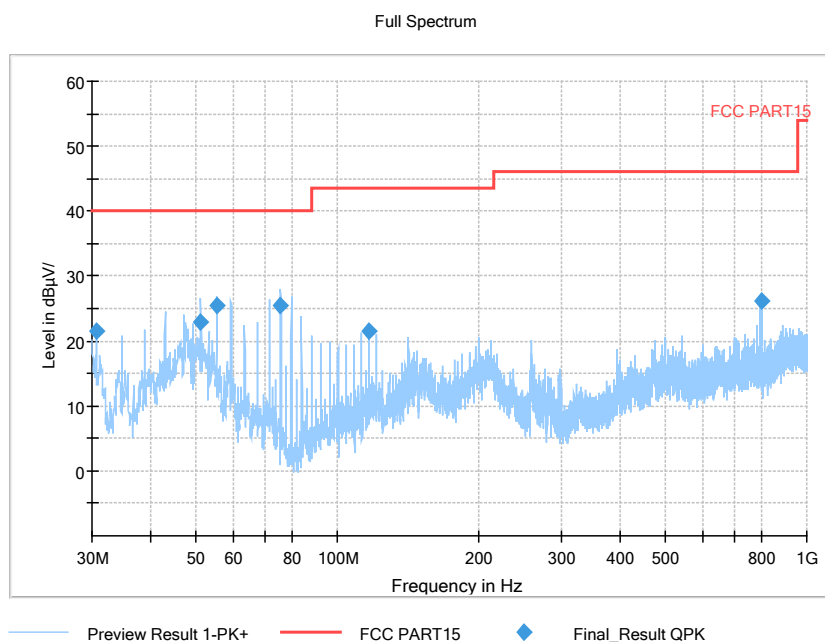
EUT3# + Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30.097	20.69	40.00	-21.2	41.89	V
51.146	23.11	40.00	-17.7	40.81	V
55.2685	25.54	40.00	-18.2	43.74	V
75.7355	24.97	40.00	-23.5	48.47	V
116.718	20.69	43.50	-20.8	41.49	V
799.4525	25.46	46.00	-5.2	30.66	V

EUT + Charger:

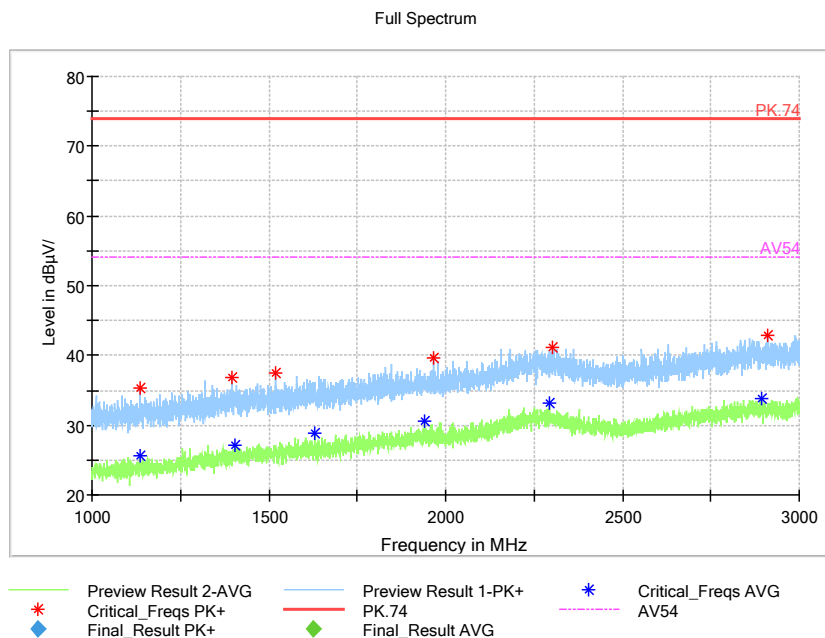
Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
39.2635	19.29	40.00	-18.7	37.99	V
85.4355	23.12	40.00	-22.7	45.82	V
134.566	20.97	43.50	-22.6	43.57	V
184.812	19.57	43.50	-20.3	39.87	V
539.541	13.28	46.00	-9.9	23.18	V
806.3395	16.57	46.00	-5.1	21.67	V

EUT1# + Laptop: refer to Pic7, Pic8, Pic9, Pic10, Pic11



Pic7. Radiated emission(30MHz – 1GHz)

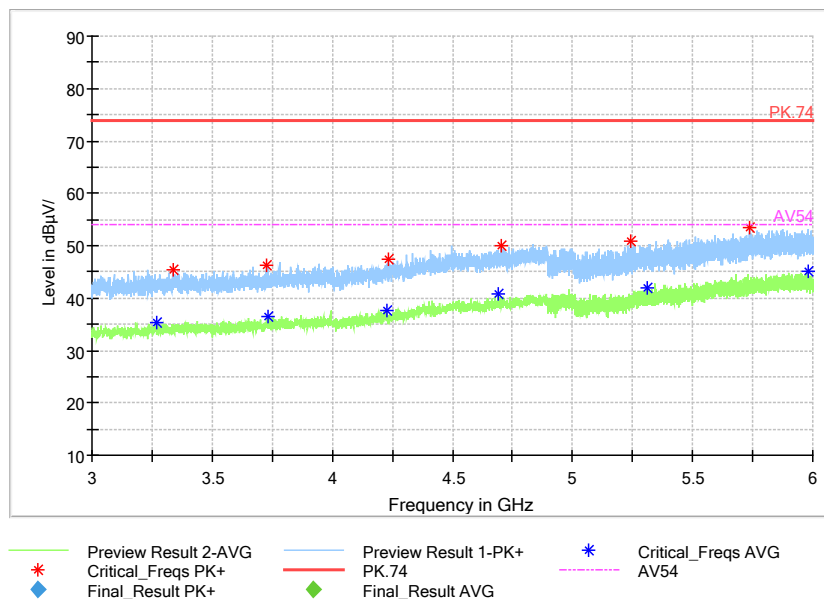
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic8. Radiated emission (1GHz –3GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

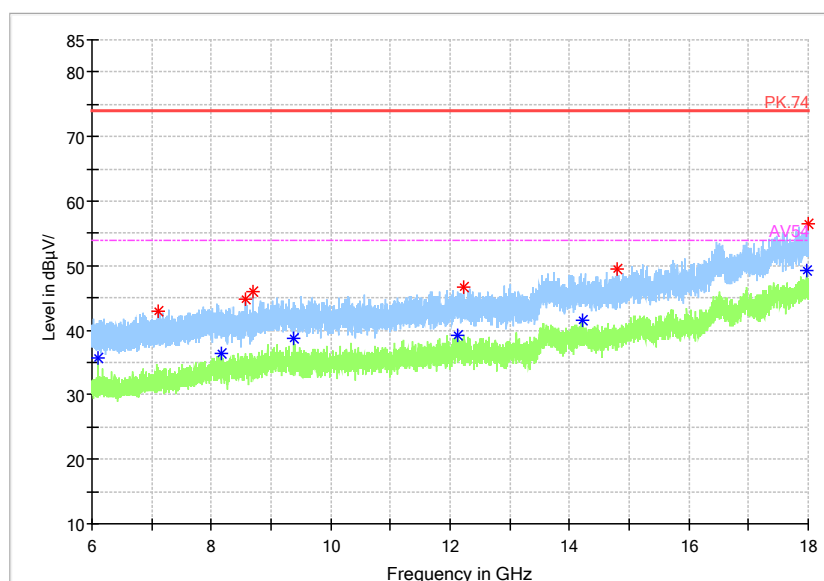
Full Spectrum



Pic9. Radiated emission (3GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

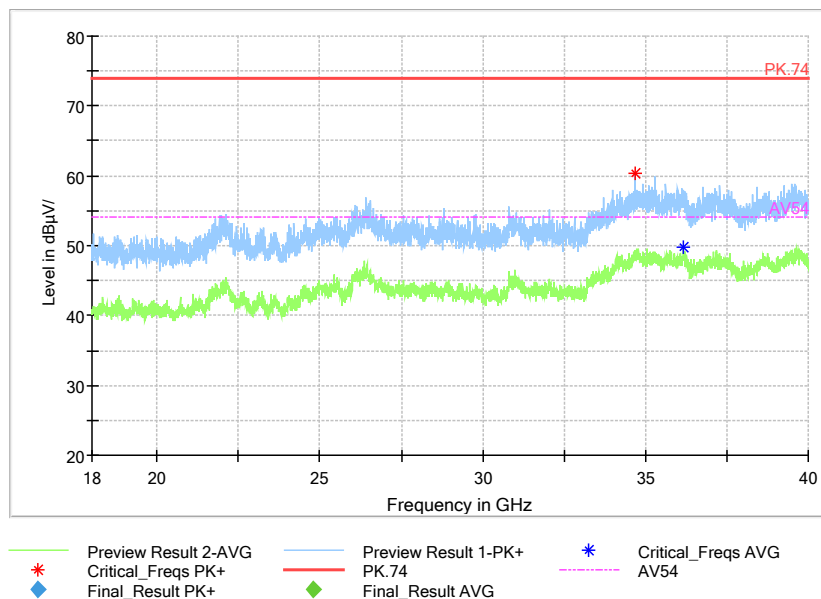
Full Spectrum



Pic10. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

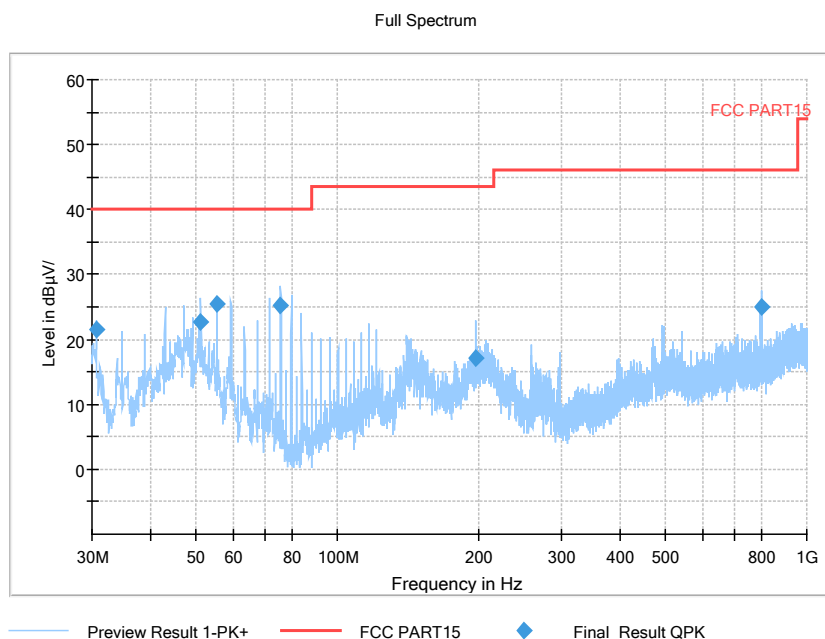
Full Spectrum



Pic11. Radiated emission (18GHz – 40GHz)

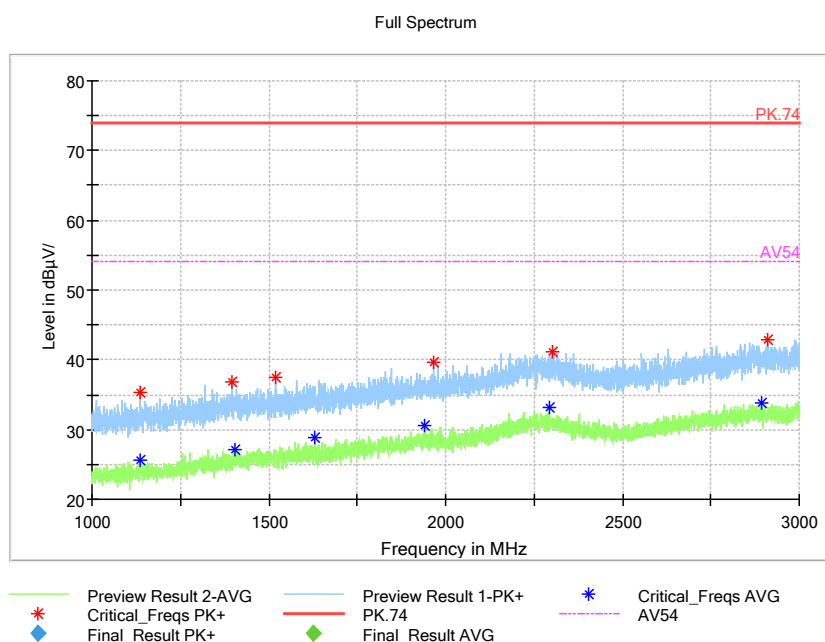
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT2# + Laptop: refer to Pic12, Pic13, Pic14, Pic15, Pic16



Pic12. Radiated emission(30MHz – 1GHz)

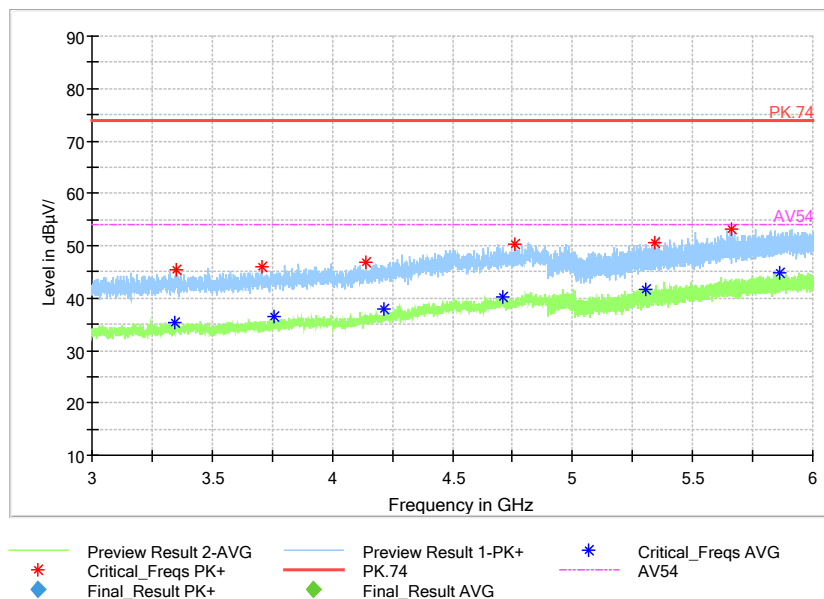
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic13. Radiated emission (1GHz –3GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

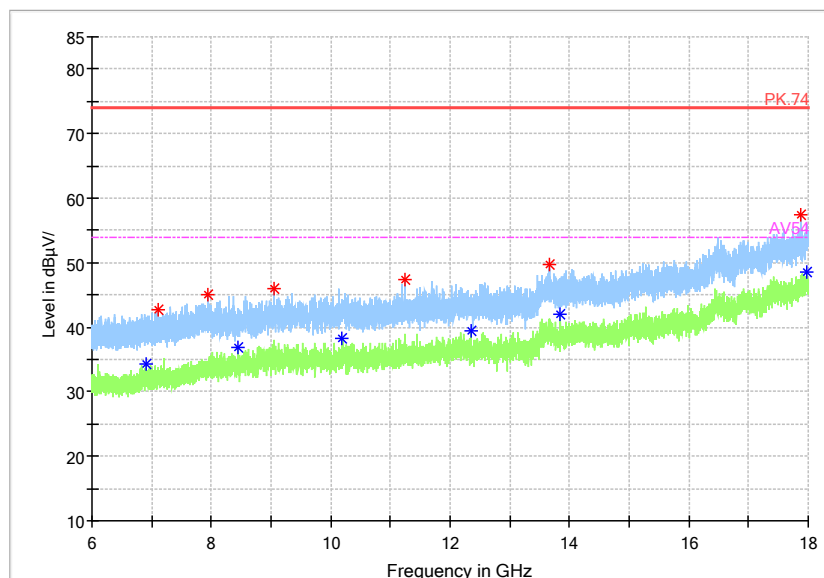
Full Spectrum



Pic14. Radiated emission (3GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

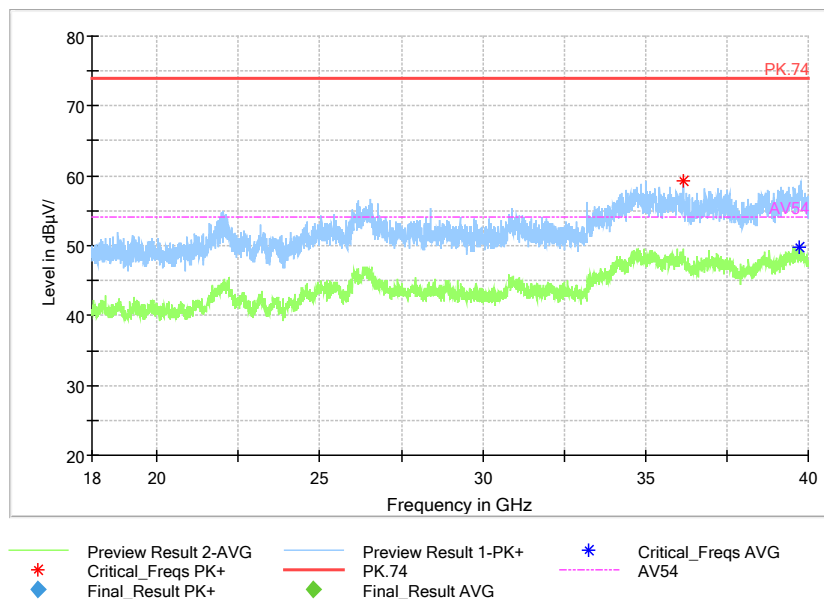
Full Spectrum



Pic15. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

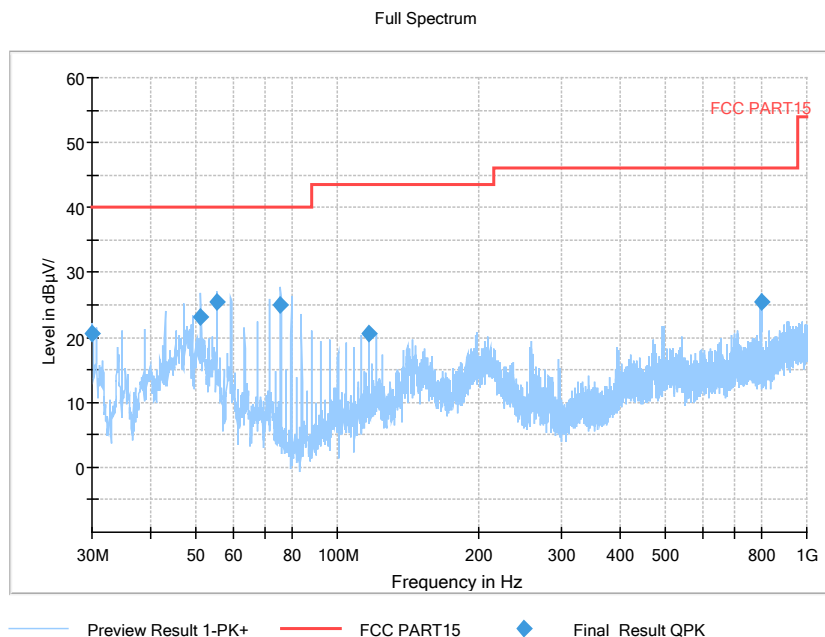
Full Spectrum



Pic16. Radiated emission (18GHz – 40GHz)

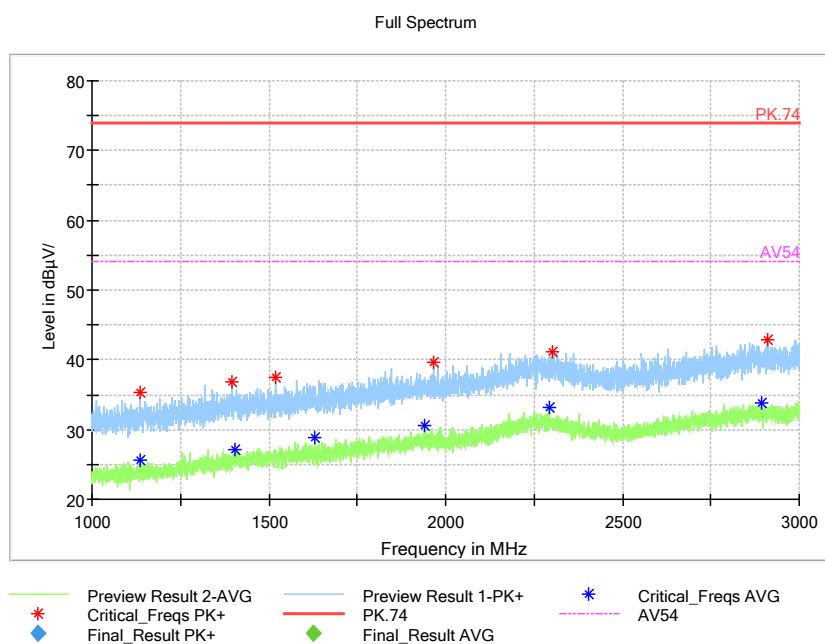
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT3# + Laptop: refer to Pic17, Pic18, Pic19, Pic20, Pic21



Pic17. Radiated emission(30MHz – 1GHz)

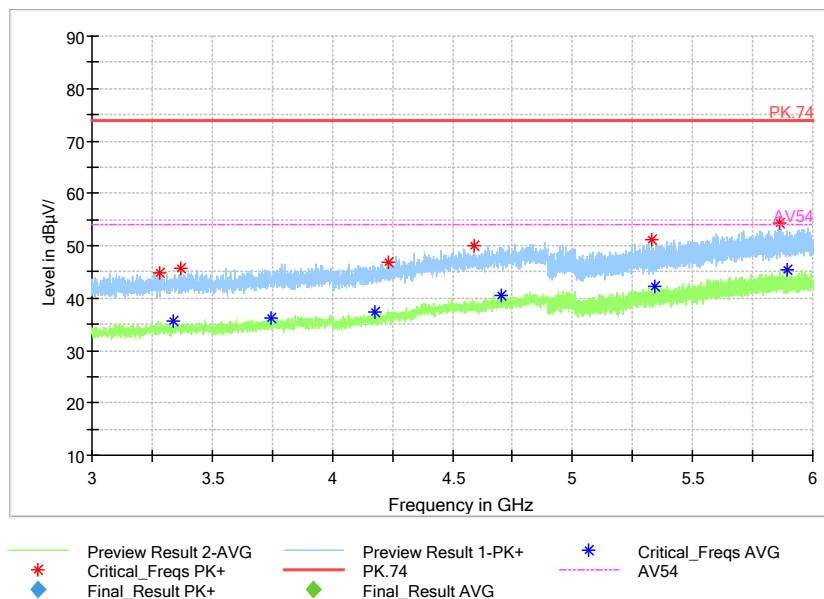
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic18. Radiated emission (1GHz –3GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

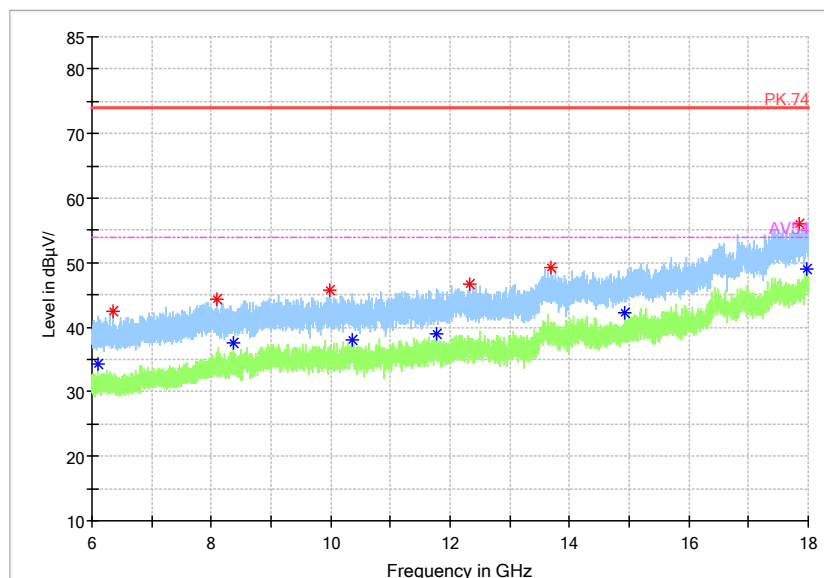
Full Spectrum



Pic19. Radiated emission (3GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

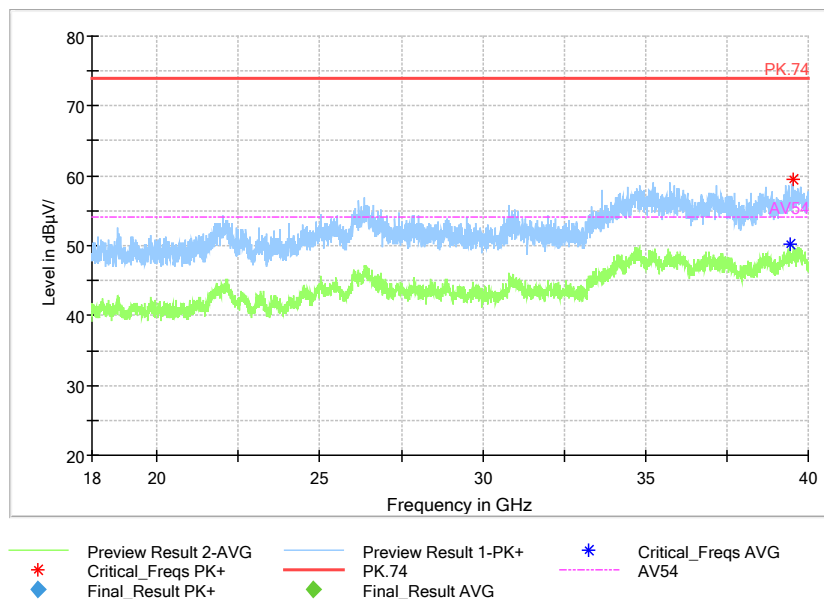
Full Spectrum



Pic20. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

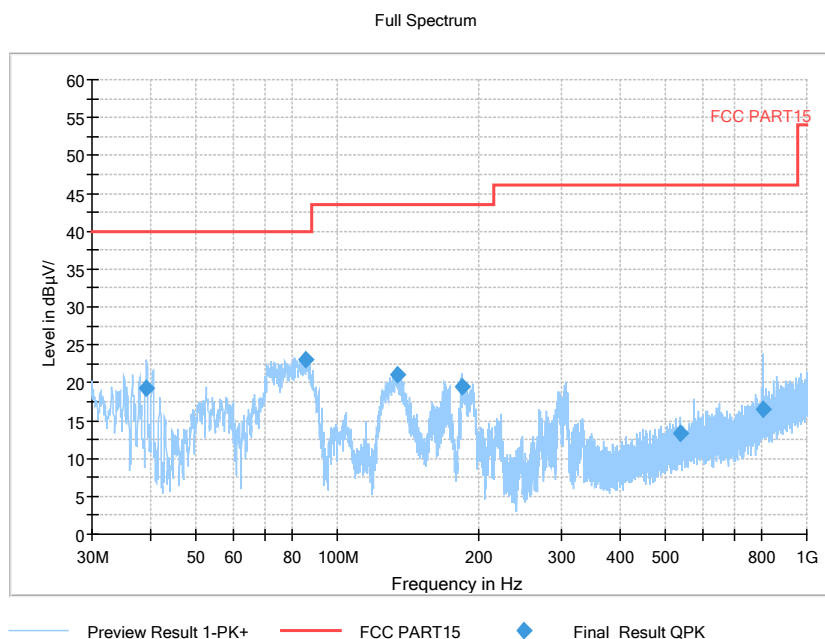
Full Spectrum



Pic21. Radiated emission (18GHz – 40GHz)

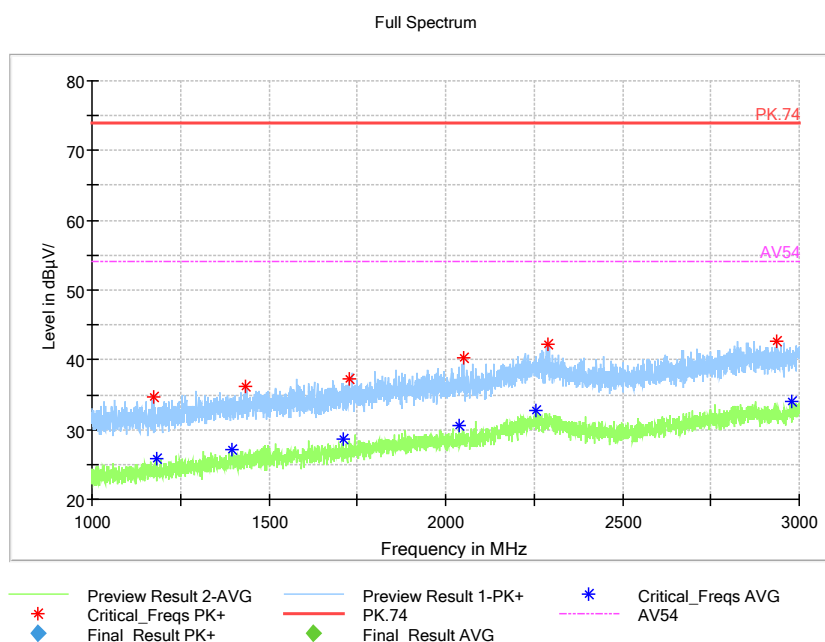
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT + Charger: refer to Pic22, Pic23, Pic24, Pic25, Pic26



Pic22. Radiated emission(30MHz – 1GHz)

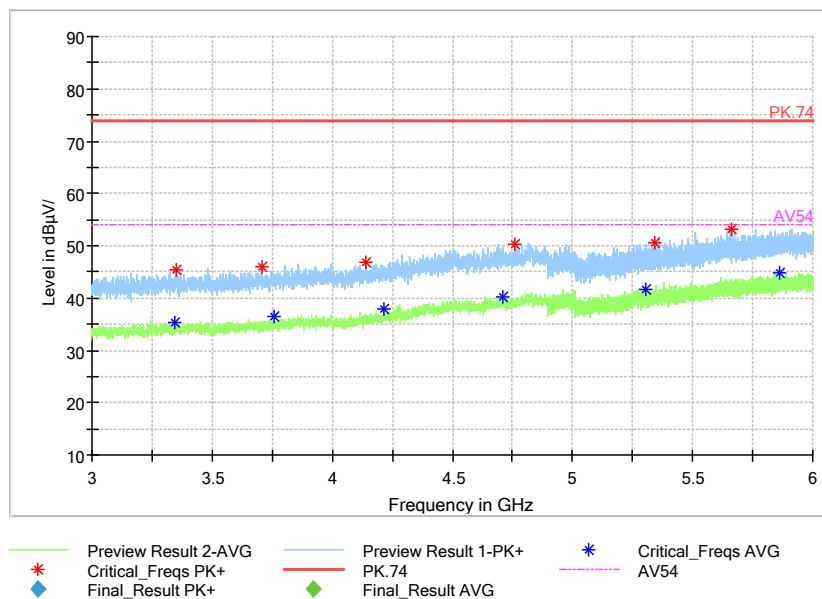
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic23. Radiated emission (1GHz –3GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

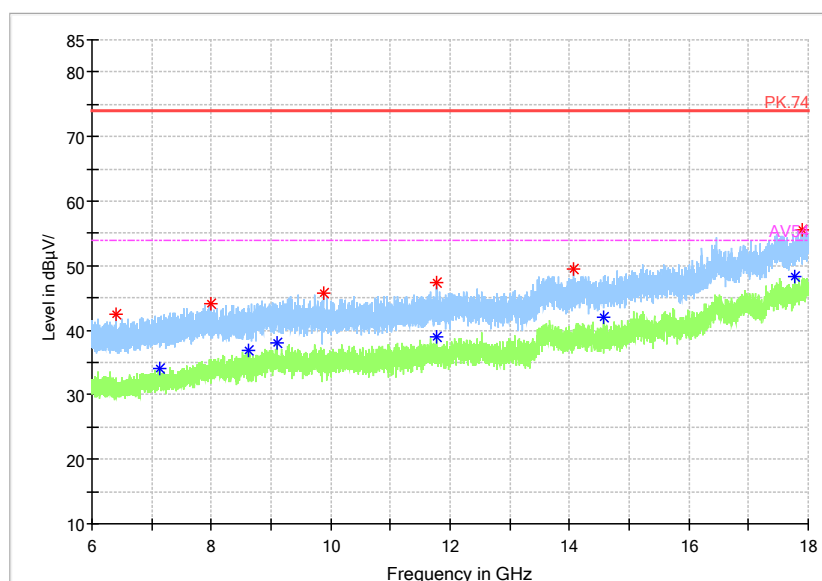
Full Spectrum



Pic24. Radiated emission (3GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

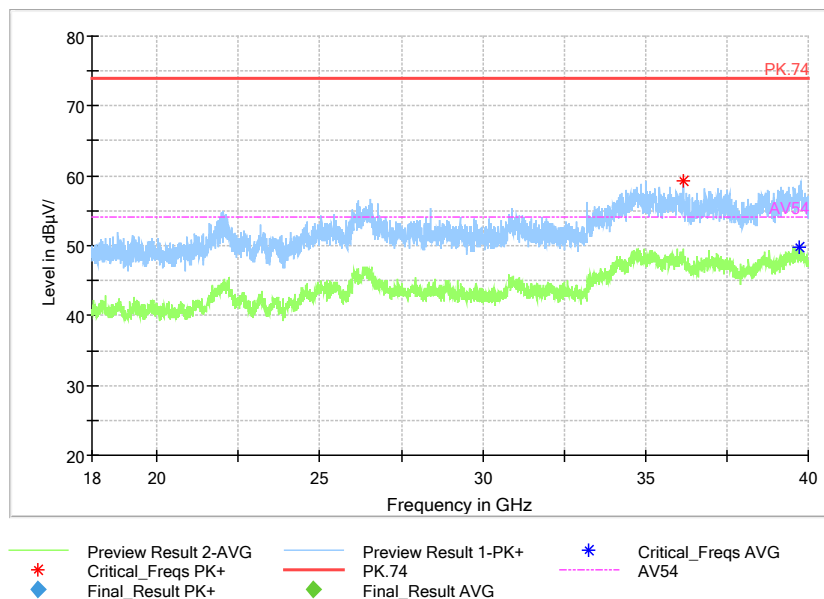
Full Spectrum



Pic25. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

Full Spectrum



Pic26. Radiated emission (18GHz – 40GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mS emi-AnechoicChamber	FRANKONIA	-----	16th Nov. 2023	16th Nov. 2018
2	ESW EMI test receiver	R&S	101574	20th June 2022	20th June 2021
3	ESR3 EMI test receiver	R&S	102361	11th Apr. 2022	11th Apr. 2021
4	VULB 9163 Ultra log test antenna	schwarzbeck	867	28th May 2023	28th May 2021
5	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	13th Apr. 2023	13th Apr. 2021
6	SAS-574 Horn Antenna	schwarzbeck	535	21th Apr. 2023	21th Apr. 2021
7	ENV216 AMN	R&S	101881	20th June 2022	20th June 2021
8	EMC32EMI test software	R&S	-----	-----	-----