

Appendix A. Test Result of AC Power Line Conducted Emission

Owing to the EUT use DC-Powered, the test item is not performed.

Appendix B. Test Result of Occupied Bandwidth

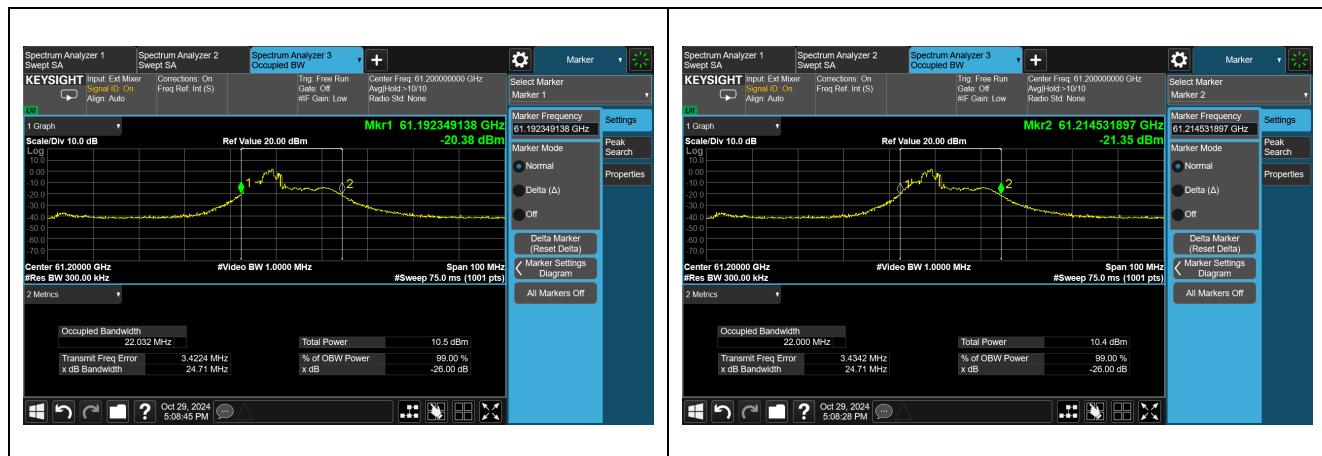
M202404002

Test Frequency (GHz)	Measurement Value (fL) (GHz)	Measurement Value (fH) (GHz)	Measurement Level (MHz)	Limit (dBm)
61.2	61.1918	61.2136	21.86	<500MHz



M202404001

Test Frequency (GHz)	Measurement Value (fL) (GHz)	Measurement Value (fH) (GHz)	Measurement Level (MHz)	Limit (dBm)
61.2	61.1923	61.2145	22.18	<500MHz



Appendix C. Test Result of Maximum output power (EIRP)

M202404002

Peak Output Power

Test Frequency (GHz)	Measurement Level (dBm)	FMCW Desensitization factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
61.2	5.85	-2.76	8.61	43

Average Output Power

Test Frequency (GHz)	Measurement Level (dBm)	Limit (dBm)
61.2	-13.85	40

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Peak Output Power

Test Frequency (GHz)	Measurement Level (dBm)	FMCW Desensitization factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
61.2	5.84	-1.97	7.81	43

Average Output Power

Test Frequency (GHz)	Measurement Level (dBm)	Limit (dBm)
61.2	-13.93	40

Note:

Step 1: $E = 126.8 - 20\log(\lambda) + P - G$

E is the field strength of the emission at the measurement distance, in $\text{dB}\mu\text{V/m}$.

P is the power measured at the output of the test antenna, in dBm.

λ is the wavelength of the emission under investigation [300/fMHz], in m.

G is the gain of the test antenna, in dBi.

Step 2: $\text{EIRP (dBm)} = E + 20\log(D) - 104.8$

where D is the measurement distance (in the far field region) in m.

EIRP = Measurement Level - FMCW Desensitization factor.

Desensitization factor was calculated from follow equation;

$$\alpha = \frac{1}{\sqrt{1 + \left(\frac{2\ln(2)}{\pi}\right)^2 \left(\frac{F_s}{T_s B}\right)^2}}$$

and

FMCW Desensitization factor = 20 Log (a)

Where

F_s is FMCW Sweep Width or Chirp Width, is used the actual measurement value.

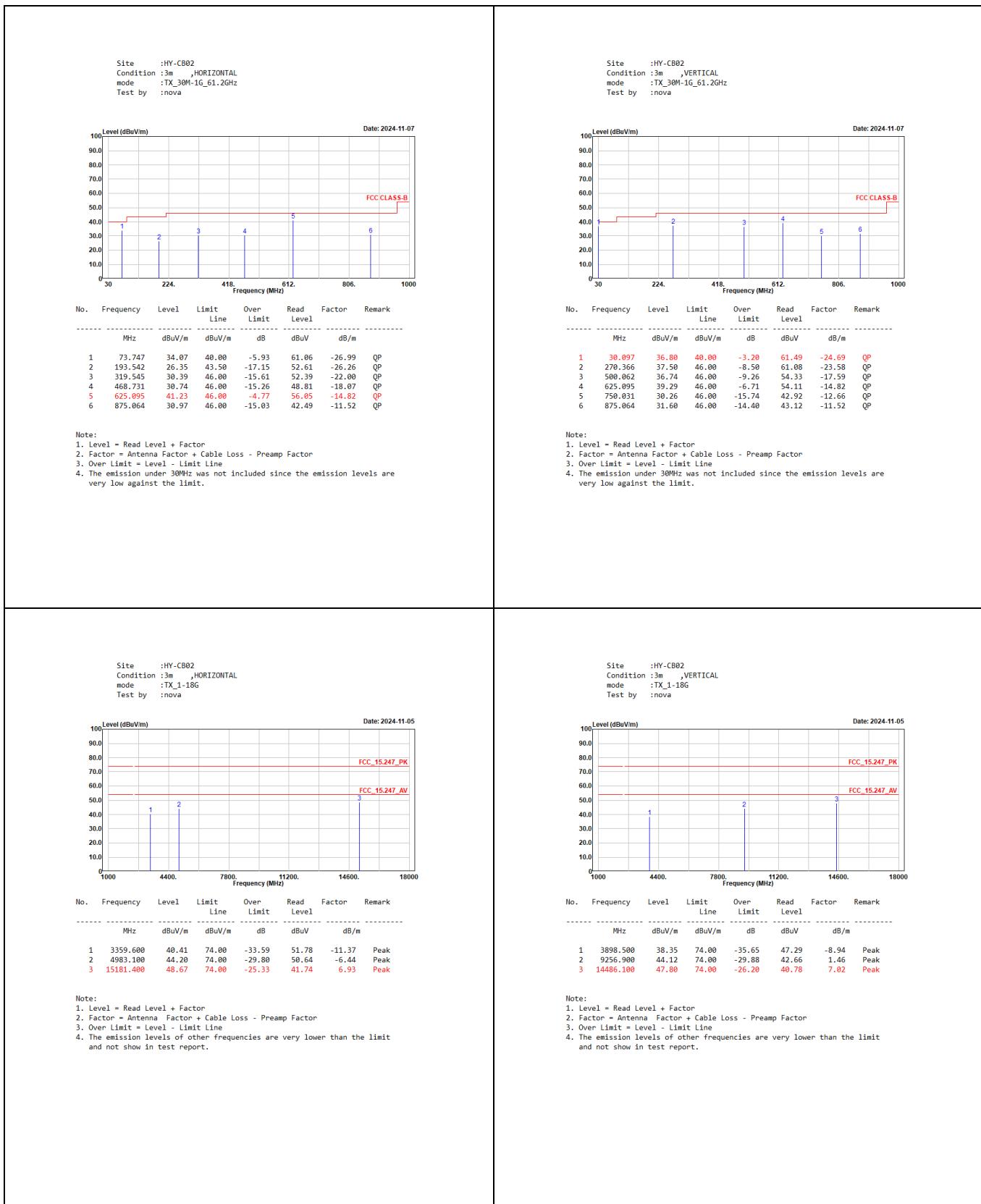
T_s is FMCW Sweep Time, is referred to the values in the specifications.

B is -3dB Bandwidth of Gaussian RBW Filter, is used the actual measurement value.

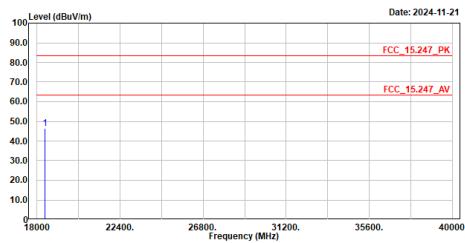


Appendix D. Test Result of Radiated Emissions

M202404002



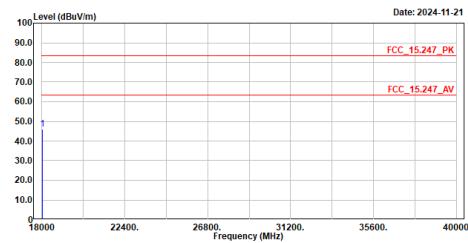
Site :HY-CB02
 Condition :1m ,Horizontal
 mode :TX_18-40G_61.2GHz
 Test by :nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV		
1	18418.000	46.53	83.54	-37.01	42.70	3.83	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

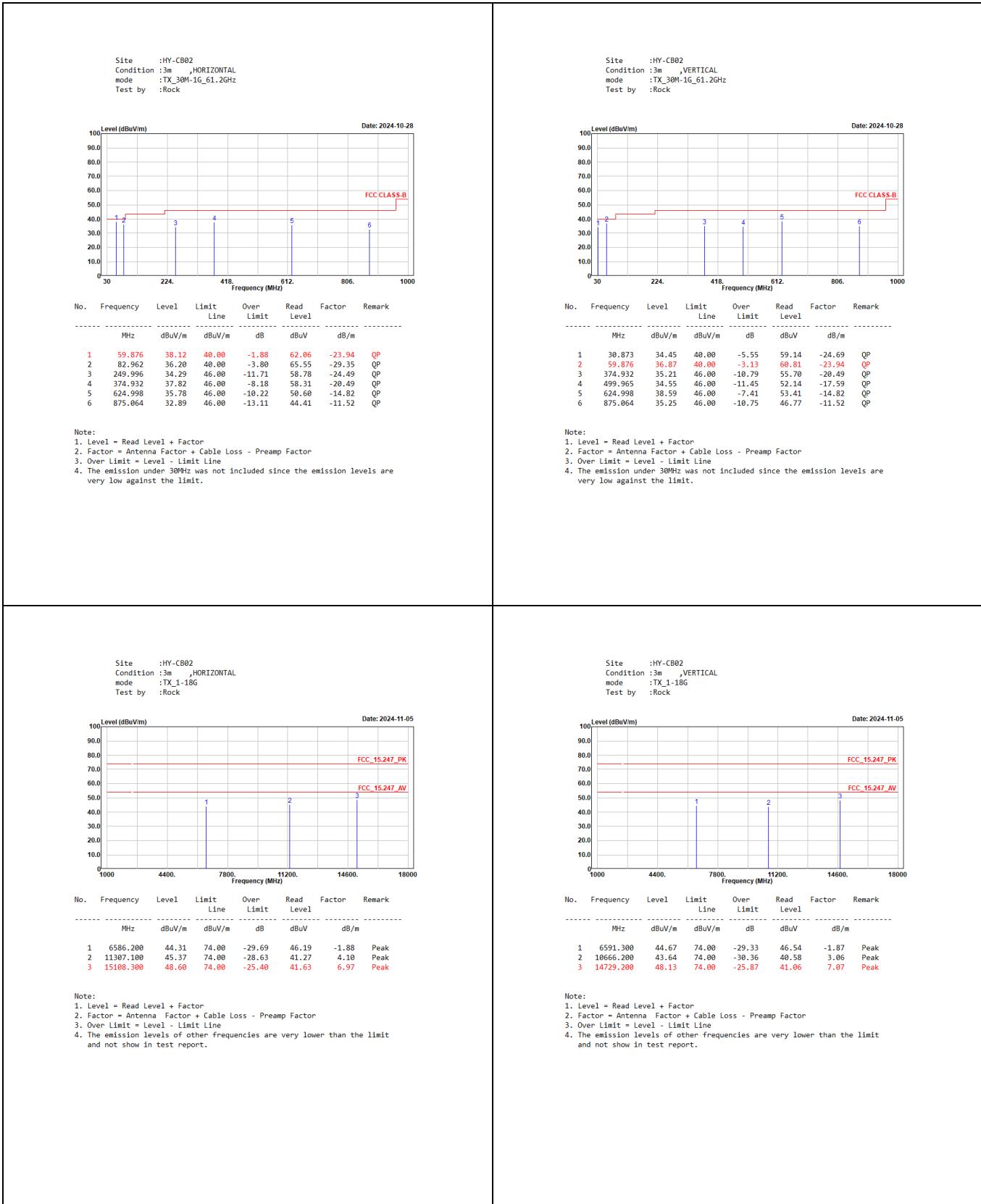
Site :HY-CB02
 Condition :1m ,Vertical
 mode :TX_18-40G_61.2GHz
 Test by :nova



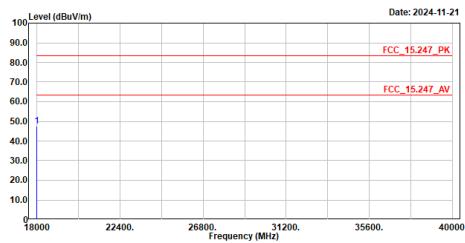
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV		
1	18044.000	46.12	83.54	-37.42	42.63	3.49	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

M202404001



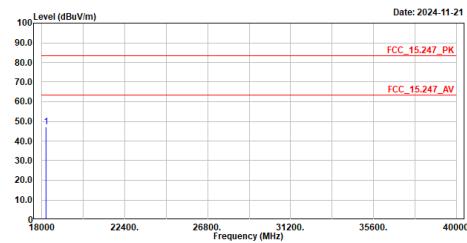
Site :HY-CB02
 Condition :1m ,Horizontal
 mode :TX_18-40G_61.2GHz
 Test by :nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	18000.000	47.42	83.54	-36.12	43.97	3.45	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB02
 Condition :1m ,Vertical
 mode :TX_18-40G_61.2GHz
 Test by :nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	18242.000	47.23	83.54	-36.31	43.56	3.67	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 40 GHz _ M202404002

Frequency (GHz)	EIRP (dBm)	Power Density ((pW / cm ²))	Limit (pW / cm ²)
140.78	-18.90	11.38	90

Above 40 GHz _ M202404001

Frequency (GHz)	EIRP (dBm)	Power Density ((pW / cm ²))	Limit (pW / cm ²)
140.78	-19.03	11.05	90

Appendix E. Test Result of Frequency Stability

M202404002

Voltage (V)	Temperature (°C)	Measurement Frequency (MHz)	Limit
DC 48 V	50	61203.65	Within band
	40	61203.65	Within band
	30	61203.65	Within band
	20	61202.05	Within band
	10	61201.80	Within band
	0	61202.05	Within band
	-10	61202.05	Within band
	-20	61201.80	Within band

Temperature (°C)	Voltage (V)	Measurement Frequency (MHz)	Limit
20 °C	DC 55.2 V	61202.40	Within band
	DC 48 V	61202.70	Within band
	AC 40.8 V	61202.40	Within band