



SPOT CHECK EVALUATION

FCC ID : PY322300575
Equipment : Netgear 5G MHS Travel Router
Model Name : MR6550
Applicant : Netgear Inc
350 E. Plumeria Drive, San Jose, CA 95134, United States
Standard : 47 CFR Part 2, 22(H), 24(E), 27, 90(R), 90(S), 96
FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Sep. 12, 2022 and testing was performed from Sep. 27, 2022 to Nov. 23, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this spot check report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

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History of this test report

Version	Description	Issue Date
01	Initial issue of report	Nov. 03, 2022
02	Revised Spot Check Verification Data Section	Nov. 08, 2022
03	1. Revised Spot Check Verification Data Section 2. Revised List of Measuring Equipment 3. Revised Setup Photographs	Nov. 23, 2022
04	Revised Spot Check Verification Data Section	Dec. 12, 2022



1. Introduction Section

FCC ID: PY321100529, PY322100558, PY322100564 and FCC ID: PY322300575 (variant model) use the same identical internal printed circuit board layouts, and based on their similarity, spot check and data referencing for the FCC Part 15C (equipment class: DTS) and FCC Part 15E (equipment class: NII, 6XD) and FCC Part 22, 24, 27, 90, 96 (equipment class: PCB, CBE) has been used following FCC KDB 484596 D01 v01. The spot check data in this report is used to justify the data reuse.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY322300575).



2. Model Difference Information

PY321100529 / PY322100558 / PY322100564 and PY322300575 use the identical internal printed circuit board layout, and the major differences which may relate to RF are listed below:

- PY322300575 vs PY321100529: they are identical in hardware including the hardware components population. On PY322300575, software change to enable FR2 n261.
- PY322300575 vs PY321100529: on PY322300575, software change to enable some LTE bands and FR1 bands. While those newly enabled bands are also enabled on PY322100558.
- PY322300575 vs PY321100529: on PY322300575, software change to enable HPUE in n77. While the n77 in HPUE is also implemented on PY322100564.
- PY322300575 vs PY321100529: on PY322300575, a software feature is enabled to increase WLAN power level in the 2.4GHz, 5GHz and 6GHz bands when the device connects to AC mains. This feature is also implemented on PY322100564 for 2.4GHz and 5GHz WLAN.

The detail of similarity and difference is illustrated in the operational description. Based on the information, spot check of conducted power and emission level was performed and presented in this report to justify the data referencing.



3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test configurations were selected from the worst cases identified in the parent model and tested to demonstrate the test data from original model remains representative for the variant model.

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	PY321100529 Parent Worst Result	PY322300575 Variant Check Result	Difference (dB)
Conducted Power (dBm)	WWAN LTE Band 2	23.48	22.95	-0.53
	WWAN LTE Band 4	23.16	23.05	-0.11
	WWAN LTE Band 5	23.27	22.79	-0.48
	WWAN LTE Band 7	22.95	22.44	-0.51
	WWAN LTE Band 12	23.12	23.07	-0.05
	WWAN LTE Band 14	23.09	22.61	-0.48
	WWAN LTE Band 30	21.97	22.22	0.25
	WWAN LTE Band 48	22.81	22.35	-0.46
	WWAN LTE Band 66	23.83	23.31	-0.52
	WWAN NR n2	23.84	23.49	-0.35
	WWAN NR n5	23.39	23.26	-0.13
	WWAN NR n12	23.41	23.45	0.04
	WWAN NR n14	23.07	22.95	-0.12
	WWAN NR n30	22.37	22.47	0.1
WWAN NR n66	23.97	23.58	-0.39	
EIRP (dBm)	WWAN NR n260_Module 0	32.63	30.30	-2.33
	WWAN NR n260_Module 1	29.66	29.02	-0.64
Average Conducted Power (dBm)	WLAN 6G (5925~6425)_indoor client	12.07	11.92	-0.15
	WLAN 6G (6425~6525)_indoor client	10.93	10.66	-0.27
	WLAN 6G (6525~6875)_indoor client	10.77	10.66	-0.11
	WLAN 6G (6875~7125)_indoor client	11.71	11.66	-0.05



Test Item	Mode	PY322100558 Parent Worst Result	PY322300575 Variant Check Result	Difference (dB)
Conducted Power (dBm)	WWAN LTE Band 13	23.04	22.57	-0.47
	WWAN LTE Band 25	23.02	23.27	0.25
	WWAN LTE Band 26	22.81	22.67	-0.14
	WWAN LTE Band 41	24.20	23.81	-0.39
	WWAN LTE Band 71	23.05	22.64	-0.41
	WWAN NR n25	23.52	23.51	-0.01
	WWAN NR n41	23.38	22.91	-0.47
	WWAN NR n48	22.63	22.14	-0.49
WWAN NR n71	23.35	23.36	0.01	

Test Item	Mode	PY322100564 Parent Worst Result	PY322300575 Variant Check Result	Difference (dB)
Conducted Power (dBm)	WWAN NR n77 (Part 27O)	25.32	25.03	-0.29
	WWAN NR n77 (Part 27Q)	25.71	25.64	-0.07
Average Conducted Power (dBm)	WLAN 2.4G	22.27	22.10	-0.17
	WLAN 5G (5150~5250)	20.62	20.37	-0.25
	WLAN 5G (5250~5350)	20.41	20.28	-0.13
	WLAN 5G (5470~5725)	20.62	20.51	-0.11
	WLAN 5G (5725~5850)	20.53	20.51	-0.02



Test Item	Mode	ANT	PY321100529 Parent Worst Result	PY322300575 Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBm)	WWAN LTE Band 7	2	-35.97	-35.36	0.61
	WWAN LTE Band 48	1	-44.31	-51.79	-7.48
	WWAN LTE Band 66	2	-36.29	-40.76	-4.47
	WWAN NR n2 (EN-DC 66A_n2A)	1	-38.38	-39.44	-1.06
	WWAN NR n2 (SA mode)	2	-39.83	-39.20	0.63
	WWAN NR n5 (EN-DC 2A_n5A)	1	-33.52	-41.41	-7.89
	WWAN NR n5 (EN-DC 12A_n5A)	2	-33.24	-44.94	-11.7
	WWAN NR n12 (SA mode)	1	-30.94	-42.46	-11.52
	WWAN NR n14 (SA mode)	1	-48.25	-52.34	-4.09
WWAN NR n30 (EN-DC 14A_n30A)	2	-43.10	-48.55	-5.45	
Radiated Spurious Emission (Band Edge) (dBm)	WWAN NR n260	M0	-5.49	-9.03	-3.54
		M1	-5.43	-11.30	-5.87
Radiated Spurious Emission (Harmonic) (dBm)	WWAN NR n260	M0	-27.86	-29.80	-1.94
		M1	-33.03	-34.80	-1.77
Radiated Spurious Emission (Band Edge) (dBuV/m)	WLAN 6G_indoor client	3+4	67.89	66.17	-1.72
Radiated Spurious Emission (Harmonic) (dBuV/m)	WLAN 6G_indoor client	3+4	45.86	45.60	-0.26



Test Item	Mode	ANT	PY322100558 Parent Worst Result	PY322300575 Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBm)	WWAN LTE Band 13	1	-50.08	-47.12	2.86
	WWAN LTE Band 41	2	-34.47	-34.03	0.44
	WWAN NR n71 (EN-DC 66A_n71A)	1	-41.74	-40.23	1.51
	WWAN NR n41 (SA mode)	2	-34.38	-34.46	-0.08
	WWAN NR n48 (UL MIMO)	1+2	-45.53	-46.73	-1.20

Test Item	Mode	ANT	PY322100564 Parent Worst Result	PY322300575 Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBm)	WWAN NR n77 (SA mode)	1	-27.62	-27.46	0.16
	WWAN NR n77 (EN-DC 5A_n77A)	2	-27.63	-27.23	0.4
Radiated Spurious Emission (Band Edge) (dBuV/m)	WLAN 2.4G	3+4	53.23	51.08	-2.15
	WLAN 5G	3+4	53.82	53.76	-0.06
Radiated Spurious Emission (Harmonic) (dBuV/m)	WLAN 2.4G	3+4	43.17	42.38	-0.79
	WLAN 5G	3+4	65.53	62.09	-3.44

Summary for CBP Verification of WIFI 6E is listed as below:

Test Item	Mode	PY321100529 Parent Injected AWGN Level (dBm)	PY322300575 Variant Injected AWGN Level (dBm)	Regulated Threshold level (dBm)	PY322300575 Adjusted Power (dBm)
Contention Based Protocol (BW 160MHz)	WLAN 6G (Channel Freq. 6185MHz)	-63.49	-64.18	-62	-65.72
	WLAN 6G (Channel Freq. 6505MHz)	-62.98	-63.09	-62	-64.63
	WLAN 6G (Channel Freq. 6665MHz)	-63.19	-62.99	-62	-64.53
	WLAN 6G (Channel Freq. 6985MHz)	-61.80	-61.09	-62	-62.63

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (1.54 dBi).

Note 2: Path Loss is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power.



DFS spot check result is listed as below:

Radar Type 0

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
160MHz / 5570MHz	Channel Availability Check Time	> 60s	> 60s	Pass
	Channel Move Time	1.126038 s	< 10s	Pass
	Channel Closing Transmission Time	200ms + 26.4 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30 min	≥ 30 min	Pass
	U-NII Detection Bandwidth	160 MHz	> EUT 99% Bandwidth = 156.727MHz (Refer to channel 114)	Pass

The radar Detection Threshold, lowest antenna gain is the parameter of Interference radar DFS detection threshold, The Interference Detection Threshold is the (-64 dBm) + (2.59) [dBi]+ 1 dB= -60.41 dBm.

Conclusion:

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

The spot check emission level is not degraded more than 3dB, and the emission level is compliant, data referencing is justified according to the guidance in the KDB inquiry



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)
22, 24, 27, 90, 96	PCB CBE	LTE	2/4/5/7/12/14/ 30/48/66 ULCA 48C/66B/66C	PY321100529	Original Grant	FG190614A FG190614C FG190614E FG190614G FG190614J	PY32230057 5
		LTE	13/25/26/41/71 ULCA 41C	PY322100558	Original Grant	FG190614-03A FG190614-03C	PY32230057 5
		NR	n2/n5/n12/n14/n30/ n66	PY321100529	Original Grant	FG190614B FG190614D FG190614F	PY32230057 5
		NR	n260	PY321100529	Original Grant	FG190614K	PY32230057 5
		NR	n25/n41/n48/n71 UL MIMO n48	PY322100558	Original Grant	FG190614-03B FG190614-03E FG220413003	PY32230057 5
		NR	n77	PY322100564	Original Grant	FG190614-04A FG190614-04B	PY32230057 5
15C	DTS	Wi-Fi	2400~2483.5	PY322100564	Original Grant	FR190614-04A	PY32230057 5
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	PY322100564	Original Grant	FR190614-04B FR190614-04C	PY32230057 5
		DFS	5250~5350 5470~5725	PY321100529	Original Grant	FZ190614A FZ190614B	PY32230057 5
	6XD	Wi-Fi	5925~6425 6425~6525 6525~6875 6875~7125	PY321100529	Original Grant	FR190614D	PY32230057 5



5. List of Measuring Equipment

<Radiation for FCC Part 22, 24, 27>

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Oct. 18, 2022~ Oct. 19, 2022	May 12, 2023	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Oct. 18, 2022~ Oct. 19, 2022	Nov. 29, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz~40GHz	Nov. 04, 2021	Oct. 18, 2022~ Oct. 19, 2022	Nov. 03, 2022	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 07, 2022	Oct. 18, 2022~ Oct. 19, 2022	Oct. 06, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Oct. 18, 2022~ Oct. 19, 2022	Jun. 27, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40G	Jan. 04, 2022	Oct. 18, 2022~ Oct. 19, 2022	Jan. 03, 2023	Radiation (03CH16-HY)
Signal Generator	Agilent	MG3694C	163401	0.1Hz~40GHz	Feb. 13, 2022	Oct. 18, 2022~ Oct. 19, 2022	Feb. 12, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz to 1GHz	Feb. 06, 2022	Oct. 18, 2022~ Oct. 19, 2022	Feb. 05, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 08, 2022	Oct. 18, 2022~ Oct. 19, 2022	Oct. 07, 2023	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1G~18GHz	Aug. 09, 2022	Oct. 18, 2022~ Oct. 19, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 10, 2022	Oct. 18, 2022~ Oct. 19, 2022	Mar. 09, 2023	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 04, 2022	Oct. 18, 2022~ Oct. 19, 2022	Jul. 03, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1-18GHz	Dec. 27, 2021	Oct. 18, 2022~ Oct. 19, 2022	Dec. 26, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Oct. 18, 2022~ Oct. 19, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY57290111	3Hz~26.5GHz	Dec. 15, 2021	Oct. 18, 2022~ Oct. 19, 2022	Dec. 14, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 09, 2022	Oct. 18, 2022~ Oct. 19, 2022	Aug. 08, 2023	Radiation (03CH16-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	805935/4	NA	Aug. 09, 2022	Oct. 18, 2022~ Oct. 19, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	802434/4	NA	Aug. 09, 2022	Oct. 18, 2022~ Oct. 19, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Oct. 18, 2022~ Oct. 19, 2022	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Oct. 18, 2022~ Oct. 19, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 18, 2022~ Oct. 19, 2022	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 18, 2022~ Oct. 19, 2022	N/A	Radiation (03CH16-HY)



<Radiation for FCC Part 27(F), 27(O), 90, 96 >

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Oct. 07, 2022~ Oct. 26, 2022	Sep. 19, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Oct. 07, 2022~ Oct. 26, 2022	Apr. 23, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT- N0602	30MHz~1GHz	Oct. 08, 2022	Oct. 07, 2022~ Oct. 26, 2022	Oct. 07, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	Oct. 07, 2022~ Oct. 26, 2022	Dec. 02, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Oct. 07, 2022~ Oct. 26, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Oct. 07, 2022~ Oct. 26, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Oct. 07, 2022~ Oct. 26, 2022	May 13, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2022	Oct. 07, 2022~ Oct. 26, 2022	Mar. 22, 2023	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	Oct. 07, 2022~ Oct. 26, 2022	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E- INSTRUMENT TECH LTD.	ERA-100M- 18G-56-01- A70	EC1900249	1GHz-18GHz	Dec. 22, 2021	Oct. 07, 2022~ Oct. 26, 2022	Dec. 21, 2022	Radiation (03CH12-HY)
Preamplifier	E- INSTRUMENT TECH LTD.	ERA-100M- 18G-56-01- A70	EC1900269	1GHz-18GHz	Dec. 27, 2021	Oct. 07, 2022~ Oct. 26, 2022	Dec. 26, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Oct. 07, 2022~ Oct. 26, 2022	Dec. 23, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 12, 2022	Oct. 07, 2022~ Oct. 26, 2022	Jan. 11, 2023	Radiation (03CH12-HY)
Base Station	Anritsu	MT8821C	6201432816	2/3/4G/LTE FDD/TDD/ULCA CatM1/NB1/NB2	May 10, 2021	Oct. 07, 2022~ Oct. 26, 2022	May 09, 2023	Radiation (03CH12-HY)
5G Wireless Test Platform	Anritsu	MT8000A	6262261912	N/A	Mar. 24, 2022	Oct. 07, 2022~ Oct. 26, 2022	Mar. 23, 2023	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Oct. 07, 2022~ Oct. 26, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Oct. 07, 2022~ Oct. 26, 2022	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Oct. 07, 2022~ Oct. 26, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Mar. 08, 2022	Oct. 07, 2022~ Oct. 26, 2022	Mar. 07, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 15, 2022	Oct. 07, 2022~ Oct. 26, 2022	Mar. 14, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 26, 2021	Oct. 07, 2022~ Oct. 26, 2022	Nov. 25, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 07, 2022~ Oct. 26, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 07, 2022~ Oct. 26, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 07, 2022~ Oct. 26, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Oct. 07, 2022~ Oct. 26, 2022	N/A	Radiation (03CH12-HY)



<Radiation for FCC Part 30>

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170980	18GHz-40GHz	Jan. 25, 2022	Oct. 05, 2022	Jan. 24, 2023	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101010	10Hz~44GHz	Nov. 24, 2021	Oct. 05, 2022	Nov. 23, 2022	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Nov. 30, 2021	Oct. 05, 2022	Nov. 29, 2022	Radiation (03CH18-HY)
Turn Table	EMEC	N/A	N/A	Phi/Theta 0~360 Degree	N/A	Oct. 05, 2022	N/A	Radiation (03CH18-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table	N/A	Oct. 05, 2022	N/A	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z60	100986	40GHz to 60GHz	Apr. 09, 2021	Oct. 05, 2022	Apr. 08, 2024	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	FSZ-90	101811	60GHz to 90GHz	Nov. 16, 2021	Oct. 05, 2022	Nov. 15, 2024	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z140	101128	90GHz to 140GHz	Oct. 26, 2020	Oct. 05, 2022	Oct. 25, 2023	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	1410300003	40-60 GHz	Jul. 06, 2021	Oct. 05, 2022	Jul. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	1372000000	60-90 GHz	Jul. 06, 2021	Oct. 05, 2022	Jul. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-FPRR00	1011500008	90-140 GHz	Jul. 06, 2021	Oct. 05, 2022	Jul. 05, 2024	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801589/2	N/A	Nov. 30, 2021	Oct. 05, 2022	Nov. 29, 2022	Radiation (03CH18-HY)

<Conducted for FCC Part 22, 24, 27, 90, 96>

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025280	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 29, 2021	Oct. 04, 2022 ~ Oct. 16, 2022	Oct. 28, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jun. 15, 2022	Oct. 04, 2022 ~ Oct. 16, 2022	Jun. 14, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Oct. 04, 2022 ~ Oct. 16, 2022	Jun. 12, 2023	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893240	NA	Nov. 17, 2021	Oct. 04, 2022 ~ Oct. 16, 2022	Nov. 16, 2022	Conducted (TH03-HY)



< Radiation for FCC Part 15C, 15E >

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	Oct. 01, 2022~ Oct. 07, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Oct. 01, 2022~ Oct. 07, 2022	Nov. 29, 2022	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	Oct. 01, 2022~ Oct. 07, 2022	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	Oct. 01, 2022~ Oct. 02, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 03, 2022	Oct. 03, 2022~ Oct. 07, 2022	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Oct. 01, 2022~ Oct. 07, 2022	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2022	Oct. 01, 2022~ Oct. 07, 2022	Jul. 21, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	Oct. 01, 2022~ Oct. 07, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	Oct. 01, 2022~ Oct. 07, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	Oct. 01, 2022~ Oct. 07, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 16, 2022	Oct. 01, 2022~ Oct. 07, 2022	Sep. 15, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Oct. 01, 2022~ Oct. 07, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 14, 2022	Oct. 01, 2022~ Oct. 07, 2022	Apr. 13, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Oct. 01, 2022~ Oct. 07, 2022	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Oct. 01, 2022~ Oct. 07, 2022	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Oct. 01, 2022~ Oct. 07, 2022	N/A	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 01, 2022~ Oct. 07, 2022	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 07, 2022	Oct. 01, 2022~ Oct. 07, 2022	Mar. 06, 2023	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Oct. 01, 2022~ Oct. 07, 2022	N/A	Radiation (03CH07-HY)

<Conducted for FCC Part 15C, 15E>

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Sep. 27, 2022~ Sep. 28, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Sep. 27, 2022~ Sep. 28, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W #010	RPR6W- 2101002(NO: 123)	10MHz~8GHz	Jan. 13, 2022	Sep. 27, 2022~ Sep. 28, 2022	Jan. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Sep. 27, 2022~ Sep. 28, 2022	Aug. 02, 2023	Conducted (TH05-HY)

Note: Test equipment calibration is traceable to the procedure of ISO17025.



<DFS spot check>

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Generator	Keysight	N5182B	MY56200377	9kHz~6GHz	May 05, 2022	Nov. 23, 2022	May 04, 2023	DFS (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101104	10Hz~44GHz	Feb. 16, 2022	Nov. 23, 2022	Feb. 15, 2023	DFS (DF02-HY)
Power Divider	MVE	MVE8546	A702498	0.5GHz~6GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10003	0.5GHz~6GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	STI08-0010 (#2)	2GHz~8GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	MVE	SPF141	MVE-150cm-01	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-02	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-03	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-04	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	EST	SLF402_30cm	#7	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	Woken	S05(100cm)	161202-04	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	Woken	S05(100cm)	161202-05	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)
RF Cable	Woken	S05(100cm)	161202-08	30 kHz~18GHz	Calibration from System	Nov. 23, 2022	Calibration from System	DFS (DF02-HY)

Note: Test equipment calibration is traceable to the procedure of ISO17025.

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