SPOT CHECK EVALUATION

FCC ID	:	**A4RG45RY**
Equipment	:	**Phone**
Model Name	:	**G45RY, GYPW4**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**47 CFR Part 2, 22(H), 24(E), 27, 90(R), 90(S), 96** **FCC Part 15 Subpart C §15.225** **FCC Part 15 Subpart C §15.247** **FCC Part 15 Subpart E §15.407** **FCC Part 15 Subpart F §15.519**

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 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.

Louis Wu

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History of this test report

Version	Description	Issue Date
01	Initial issue of report	Apr. 29, 2025
02	Revised description for section 5 and the NFC RSE typo This report is an updated version, replacing the report issued on Apr. 29, 2025	May 07, 2025
03	Revised Power This report is an updated version, replacing the report issued on May 07, 2025	May 15, 2025

1. Introduction Section

FCC ID: A4RGUL82 (Parent Device) and FCC ID: A4RG45RY (Variant Device) use the same identical internal printed circuit board layouts, while the variant model mmWave radio and antenna module are depopulated, details are available in the operational description. Based on their similarity, the FCC Part 15C (equipment class: DXX, DSS, DTS), Part 15E (equipment class: NII, 6CD, 6VL), Part 15F (equipment class: UWB), and FCC Part 22, 24, 25, 27, 90, 96 (equipment class: PCE, CBE, TNB) reuse the original model's result and do spot-check.

The spot check data in this report is used to justify the data reuse following FCC KDB 484596 D01 Referencing Test Data v02r03.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID: A4RG45RY

2. Model Difference Information

A4RGUL82 and A4RG45RY use the identical internal printed circuit board layout, and the difference in the components population:

- A4RG45RY: 5GNR FR2 mmWave related components are depopulated.
- A4RG45RY: 5GNR FR1 n79 related components are populated but SW is disabled in US.

The supported GSM/WCDMA/LTE bands are all identical between A4RGUL82 and A4RG45RY.

The supported NR FR1 band comparison table is listed as following

NR Band	A4RGUL82	A4RG45RY
Same	n2, n5, n7, n12, n14, n25, n26, n30, n66, n71 n38, n41 PC1.5, n77 PC1.5, n78 PC1.5	n2, n5, n7, n12, n14, n25, n26, n30, n66, n71 n38, n41 PC1.5, n77 PC1.5, n78 PC1.5
Diff.	n48, n70	-

The detail of similarity and difference is illustrated in the operational description, and based on the information spot check on conducted power, ERP/EIRP and radiated spurious emission was performed to ensure compliance.

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.

Based on the RF parameter is still identical so the EBW from original model remains representative for the variant model.

Summary for power and RSE spot check for each FCC rule part is listed as below:

Test Item	Mode	Item	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Conducted Power ERP/EIRP (dBm)	WWAN GPRS 850 Class 8 CH251	Power	32.15	31.97	-0.18
	Antenna gain (dBi) -3.6	ERP	26.40	26.22	-0.18
	WWAN GPRS 1900 Class 8 CH810	Power	29.01	28.86	-0.15
	Antenna gain (dBi) -0.2	EIRP	28.81	28.66	-0.15
	WWAN WCDMA Band V RMC 12.2K CH4182	Power	24.57	24.54	-0.03
	Antenna gain (dBi) -3.6	ERP	18.82	18.79	-0.03
	WWAN WCDMA Band II RMC 12.2K CH9262	Power	23.82	23.58	-0.24
	Antenna gain (dBi) -0.2	EIRP	23.62	23.38	-0.24
	WWAN WCDMA Band IV HSUPA Subtest-5 CH1312	Power	24.20	23.99	-0.21
	Antenna gain (dBi) -0.8	EIRP	23.40	23.19	-0.21
	WWAN LTE Band 2 20MHz 1RB0 QPSK Low	Power	23.51	23.48	-0.03
	Antenna gain (dBi) -0.2	EIRP	23.31	23.28	-0.03
	WWAN LTE Band 5 10MHz 1RB0 QPSK Low	Power	24.18	23.97	-0.21
	Antenna gain (dBi) -3.6	ERP	18.43	18.22	-0.21
	WWAN LTE Band 7 20MHz 1RB0 QPSK Mid	Power	23.86	23.62	-0.24
	Antenna gain (dBi) -1.5	EIRP	22.36	22.12	-0.24
	WWAN LTE Band 12 10MHz 1RB0 QPSK Low	Power	24.49	24.31	-0.18
	Antenna gain (dBi) -4	ERP	18.34	18.16	-0.18
	WWAN LTE Band 13 10MHz 1RB0 QPSK Mid	Power	24.67	24.46	-0.21
	Antenna gain (dBi) -2.7	ERP	19.82	19.61	-0.21
	WWAN LTE Band 14 10MHz 1RB0 QPSK Mid	Power	24.49	24.19	-0.30
	Antenna gain (dBi) -3	ERP	19.34	19.04	-0.30

Test Item	Mode	Item	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Conducted Power ERP/EIRP (dBm)	WWAN LTE Band 26 (90S) 15MHz 1RB0 QPSK Low	Power	24.25	23.98	-0.27
	WWAN LTE Band 30 10MHz 1RB0 QPSK Mid	Power	23.37	23.10	-0.27
	Antenna gain (dBi) -0.7	EIRP	22.67	22.40	-0.27
	WWAN LTE Band 41 HPUE 20MHz 1RB0 QPSK Mid	Power	25.86	25.62	-0.24
	Antenna gain (dBi) -1.5	EIRP	24.36	24.12	-0.24
	WWAN LTE Band 48 15MHz 1RB0 QPSK Mid	Power	24.31	24.25	-0.06
	Antenna gain (dBi) -2.4	EIRP	21.91	21.85	-0.06
	WWAN LTE Band 66 20MHz 1RB0 QPSK Mid	Power	23.72	23.60	-0.12
	Antenna gain (dBi) -0.7	EIRP	23.02	22.90	-0.12
	WWAN LTE Band 71 20MHz 1RB0 QPSK Mid	Power	24.47	24.23	-0.24
	Antenna gain (dBi) -4.5	ERP	17.82	17.58	-0.24
	NTN Band 23 1SC0 QPSK Low	Power	22.51	22.33	-0.18
	Antenna gain (dBi) -2.2	EIRP	20.31	20.13	-0.18
	NTN Band 255 3SC0 QPSK Mid	Power	23.21	22.94	-0.27
	Antenna gain (dBi) -3.9	EIRP	19.31	19.04	-0.27

Test Item	Mode	Item	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Conducted Power ERP/EIRP (dBm)	WWAN NR n5 10MHz 1RB1 QPSK Mid	Power	24.30	24.09	-0.21
	Antenna gain (dBi) -3.6	ERP	18.55	18.34	-0.21
	WWAN NR n7 50MHz 1RB1 QPSK Mid	Power	24.65	24.50	-0.15
	Antenna gain (dBi) -1.5	EIRP	23.15	23.00	-0.15
	WWAN NR n12 15MHz 1RB77 QPSK High	Power	24.49	24.22	-0.27
	Antenna gain (dBi) -4	ERP	18.34	18.07	-0.27
	WWAN NR n14 5MHz 12RB6 BPSK Low	Power	24.31	24.16	-0.15
	Antenna gain (dBi) -3	ERP	19.16	19.01	-0.15
	WWAN NR n25 40MHz 1RB1 QPSK High	Power	24.29	24.26	-0.03
	Antenna gain (dBi) -0.2	ERP	24.09	24.06	-0.03
	WWAN NR n26 5MHz 1RB23 QPSK High	Power	24.37	24.34	-0.03
	Antenna gain (dBi) -3.6	ERP	18.62	18.59	-0.03
	WWAN NR n30 5MHz 1RB23 BPSK High	Power	24.25	24.10	-0.15
	Antenna gain (dBi) -0.7	EIRP	23.55	23.40	-0.15
	WWAN NR n41 HPUE 100MHz 1RB271 QPSK Mid	Power	26.12	25.97	-0.15
	Antenna gain (dBi) -0.5	EIRP	25.62	25.47	-0.15
	WWAN NR n66 30MHz 1RB1 QPSK Low	Power	24.26	24.20	-0.06
	Antenna gain (dBi) -0.7	EIRP	23.56	23.50	-0.06
	WWAN NR n71 20MHz 1RB1 QPSK Mid	Power	24.67	24.61	-0.06
	Antenna gain (dBi) -4.5	ERP	18.02	17.96	-0.06
	WWAN NR n77 HPUE 90MHz 1RB243 BPSK Low	Power	26.41	26.35	-0.06
	Antenna gain (dBi) 0.8	EIRP	27.21	27.15	-0.06

Test Item	Mode	ANT	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT (BR 1Mbps CH78)	3+4	22.53	22.38	-0.15
	BT EDR (EDR 2Mbps CH78)	3+4	20.29	20.20	-0.09
	BLE (BLE 2Mbps CH38)	3+4	22.31	22.12	-0.19
	BLE CS GFSK_DTS (1Mbps CH76)	3	18.99	18.93	-0.06
	BLE CS ASK_FHSS (2Mbps CH76)	3	19.00	18.94	-0.06
	Thread (250kbps CH25)	3	20.96	20.72	-0.24
	WiFi 2.4GHz (11b CH11)	3+4	24.57	24.39	-0.18
	WiFi 5GHz (EHT20 CH173 Full RU)	3+4	23.21	23.15	-0.06
	WiFi 6GHz SP client (EHT20 CH117 Full RU)	3+4	23.21	23.09	-0.12
	WiFi 6GHz LPI client (EHT160 CH47 Full RU)	3+4	22.19	22.04	-0.15
	WiFi 6GHz VLP (EHT160 CH207 Full RU)	3+4	20.00	19.94	-0.06
EIRP (dBm)	WiFi 6GHz SP client (EHT20 CH117 Full RU) Antenna gain (dBi) -3.85	3+4	19.36	19.24	-0.12
	WiFi 6GHz LPI client (EHT160 CH47 Full RU) Antenna gain (dBi) -5.48	3+4	16.71	16.56	-0.15
	WiFi 6GHz VLP (EHT160 CH207 Full RU) Antenna gain (dBi) -6.05	3+4	13.95	13.89	-0.06

Test Item	Mode	ANT	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Field Strength (dBuV/m)	NFC 13.56MHz	-	24.03	22.68	-1.35
	UWB CH5 HPRF Case 7	Ranging	53.87	53.33	-0.54
	UWB CH9 BPRF Case 3	Patch	53.84	53.68	-0.16
Peak Power (dBm/50MHz)	UWB CH9 BPRF Case 1	Ranging	-0.36	-0.95	-0.59
	UWB CH9 BPRF Case 1	Patch	-0.10	-0.13	-0.03
Radiated Spurious Emission (dBuV/m)	NFC 13.56MHz	-	34.25	32.13	-2.12
	UWB CH9 HPRF Case 6	Ranging	53.78	53.57	-0.21
	UWB CH9 BPRF Case 3	Patch	53.42	52.55	-0.87
Radiated Spurious Emission (dBm)	WWAN GSM 850 CH189	0	-29.43	-31.23	-1.80
	WWAN GSM 1900 CH512	2	-51.20	-52.64	-1.44
	WWAN WCDMA Band V CH4233	1	-60.82	-61.87	-1.05
	WWAN WCDMA Band II CH9262	2	-50.97	-52.26	-1.29
	WWAN WCDMA Band IV CH1513	2	-50.78	-51.02	-0.24
	WWAN LTE Band 25 10MHz 1RB0 QPSK High	2	-49.11	-51.60	-2.49
	WWAN LTE Band 5 10MHz 1RB0 QPSK Mid	0	-41.07	-42.48	-1.41
	WWAN LTE Band 7 10MHz 1RB0 QPSK High	2	-37.95	-40.62	-2.67
	WWAN LTE Band 12 10MHz 1RB0 QPSK High	1	-59.27	-59.48	-0.21
	WWAN LTE Band 13 5MHz 1RB0 QPSK Mid	1	-63.86	-64.58	-0.72
	WWAN LTE Band 14 10MHz 1RB0 QPSK Mid	0	-58.93	-60.07	-1.14
	WWAN LTE Band 26 (90S) 5MHz 1RB0 QPSK Low	1	-45.30	-46.74	-1.44
	WWAN LTE Band 30 10MHz 1RB0 QPSK High	0	-50.15	-50.72	-0.57
	WWAN LTE Band 41 HPUE 10MHz 1RB0 QPSK Mid	2	-44.33	-45.17	-0.84
	WWAN LTE Band 48 20MHz 1RB0 QPSK Mid	7	-49.48	-50.62	-1.14
	WWAN LTE Band 66 10MHz 1RB0 QPSK High	2	-49.34	-50.33	-0.99
	WWAN LTE Band 71 10MHz 1RB0 QPSK High	1	-54.50	-55.37	-0.87
	NTN Band 23 1SC0 QPSK Mid	1	-55.37	-55.52	-0.15
	NTN Band 255 1SC0 QPSK Mid	4	-59.31	-62.19	-2.88

Test Item	Mode	ANT	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBm)	WWAN NR n25 20MHz 1RB1 BPSK High	2	-46.65	-49.35	-2.70
	WWAN NR n26 20MHz 1RB1 BPSK Mid	0	-47.35	-48.28	-0.93
	WWAN NR n7 20MHz 1RB1 BPSK Low	2	-52.99	-54.31	-1.32
	WWAN NR n48 20MHz 1RB1 BPSK Mid	7	-44.84	-46.88	-2.04
	WWAN NR n66 20MHz 1RB1 BPSK High	2	-52.47	-53.91	-1.44
	WWAN NR n71 20MHz 1RB1 BPSK High	1	-52.72	-53.74	-1.02
	WWAN NR n77 HPUE (27O) 20MHz 1RB1 BPSK Mid	6	-44.56	-45.79	-1.23
		7	-31.85	-32.69	-0.84

Test Item	Mode	ANT	A4RGUL82 Parent Worst Result	A4RG45RY Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBuV/m)	BT (BR 1Mbps CH39)	3+4	57.26	56.81	-0.45
	BT EDR (EDR 3Mbps CH39)	3+4	48.75	46.53	-2.22
	BLE (BLE 1Mbps CH39)	3+4	48.95	46.52	-2.43
	BLE CS GFSK_DTS (1Mbps CH76)	4	50.21	49.34	-0.87
	BLE CS ASK_FHSS (2Mbps CH76)	3	67.00	65.38	-1.62
	Thread (250kbps CH26)	3	52.05	50.97	-1.08
	WiFi 2.4GHz (EHT20 CH11 Partial 106/54 RU)	3+4	52.25	52.21	-0.04
	WiFi 5GHz (EHT40 CH110 Full RU)	3+4	52.41	50.55	-1.86
	WiFi 6GHz (EHT80 CH7 Full RU)	3+4	65.65	64.18	-1.47

Note: BLE CS means BLE Channel Sounding

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 margin to the limit is greater than 1.5dB, data referencing is justified according to the guidance in the KDB inquiry

4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Rule Part & Frequency Band	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Exhibit	Full report referenced	FCC ID Filling (Variant)
15C	DXX	NFC	§15.255 13.56MHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C NFC	Y	A4RG45RY
15C	DSS	BT BR	§15.247 2.4GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C BT	Y	A4RG45RY
	DTS	BT EDR BLE	§15.247 2.4GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C BT_EDR GUL82_FCC Part 15C BLE	Y	A4RG45RY
	DSS	BLE CS ASK	§15.247 2.4GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C BLE CS ASK	Y	A4RG45RY
	DTS	BLE CS GFSK	§15.247 2.4GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C BLE CS GFSK	Y	A4RG45RY
	DTS	Thread	§15.247 2.4GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C Thread	Y	A4RG45RY
	DTS	WiFi	§15.247 2.4GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15C WLAN2.4G	Y	A4RG45RY
15E	NII	WiFi	§15.407 5GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15E WLAN UNII-1-3 GUL82_FCC Part 15E General DFS GUL82_FCC Part 15E P2P DFS GUL82_FCC Part 15E UNII-4	Y	A4RG45RY
	6CD	WiFi	§15.407 6GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15E_WLAN B5-8 Indoor Client GUL82_FCC Part 15E_WLAN B5_B7 Standard Client GUL82_FCC Part 15E Co-location	Y	A4RG45RY
	6VL	WiFi	§15.407 6GHz	A4RGUL82	Original Grant	GUL82_FCC Part 15E_WLAN B5-8 Very Low Power	Y	A4RG45RY
15F	UWB	UWB	§15.519 CH5/CH9	A4RGUL82	Original Grant	GUL82_FCC Part 15F_UWB	Y	A4RG45RY
22, 24, 25, 27, 90, 96	PCE CBE TNB	GSM	Part 22/24 850/1900	A4RGUL82	Original Grant	GUL82_FCC Part 22.24.27 GSM, WCDMA	Y	A4RG45RY
		WCDMA	Part 22/24/27 Band II, IV, V	A4RGUL82	Original Grant	GUL82_FCC Part 22.24.27 GSM, WCDMA	Y	A4RG45RY
		LTE	Part 22/24/27 Part 90/96 2/4/5/7/12/13 /14/17/25/26 /30/38/41 /48/66/71	A4RGUL82	Original Grant	GUL82_FCC Part 22.24.27.90 LTE GUL82_FCC Part96 LTE GUL82_FCC Part96.47 LTE	Y	A4RG45RY
		NTN	Part 25 B23/B255	A4RGUL82	Original Grant	GUL82_FCC Part25 NTN GUL82_FCC Part25 SCS	Y	A4RG45RY
		NR	Part 22/24/27 Part 96 n2/n5/n7/ n12/n14/n25/ n26/n30/n38 /n41/n66/n71/ n77/n78	A4RGUL82	Original Grant	GUL82_FCC Part 22.24.27 5G NR	Y*	A4RG45RY

Note: BLE CS means BLE Channel Sounding

Note*: NR band n70 is not referenced.

5. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Aug. 28, 2025	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz-40GHz	Oct. 25, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Oct. 24, 2025	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 22, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Nov. 21, 2025	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 05, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Oct. 04, 2025	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 28, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Mar. 27, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Jul. 01, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 05, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Dec. 04, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 24, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Dec. 23, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	May 26, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 14, 2025	Jan. 14, 2024 ~ Mar. 10, 2025	Jan. 13, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Jun. 27, 2025	Radiation (03CH16-HY)
Notch Filter	ST1	STI15_9935_5150-5850	NA	N/A	Apr. 05, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Apr. 04, 2025	Radiation (03CH16-HY)
Notch Filter	Wainwright	WRCQV14-5425-5825-6525-6925-60SS	SN1	N/A	Jan. 03, 2025	Jan. 14, 2024 ~ Mar. 10, 2025	Jan. 02, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WHKX6-7268-9200-26500-40CD	SN2	9GHz High Pass Filter	May 22, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	May 21,2025	Radiation (03CH16-HY
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9kHz ~ 40GHz	Apr. 22, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Apr. 21, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4,802434/4	30MHz~18GHz	Aug. 07, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Aug. 06, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40GHz	Dec. 31, 2024	Jan. 14, 2024 ~ Mar. 10, 2025	Dec. 30, 2025	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Jan. 14, 2024 ~ Mar. 10, 2025	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 14, 2024 ~ Mar. 10, 2025	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 14, 2024 ~ Mar. 10, 2025	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 14, 2024 ~ Mar. 10, 2025	N/A	Radiation (03CH16-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Apr. 01, 2025~ Apr. 07, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Apr. 01, 2025~ Apr. 07, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10Hz~44GHz	Jan. 14, 2025	Apr. 01, 2025~ Apr. 07, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Apr. 01, 2025~ Apr. 07, 2025	May 19, 2025	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 25, 2024	Apr. 01, 2025~ Apr. 07, 2025	Sep. 24, 2025	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V；0A~6A	Nov. 27, 2024	Apr. 01, 2025~ Apr. 07, 2025	Nov. 26, 2025	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 08, 2024	Apr. 01, 2025~ Apr. 07, 2025	Aug. 07, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC	Oct. 01, 2024	Apr. 01, 2025~ Apr. 07, 2025	Sep. 30, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262012917	FR1	May 23, 2024	Apr. 01, 2025~ Apr. 07, 2025	May 22, 2025	Conducted (TH03-HY)

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Appendix B. Reference model reports