

TEST REPORT

Report Number: 15457332-E2V2

Applicant: APPLE, INC

1 APPLE PARK WAY

CUPERTINO, CA 95014, U.S.A.

Model : A3408, A3409, A3410

Brand: APPLE

FCC ID: BCG-E8726A, BCG-E8727A, BCG-E8728A

EUT Description: SMARTPHONE

Test Standard(s): FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90,

and Part 96

Date Of Issue:

2025-01-22

Prepared by:

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REPORT NO: 15175332-E2V2 DATE: 2025-01-22 EUT MODEL: A3408, A3409, A3410 FCC ID: BCG-E8726A, BCG-E8727A, BCG-E8728A

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-01-15	Initial Review	
V2	2025-01-22	Addressed TCB Questions at Section 4.3 and 5.7	Mengistu M.

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3408, A3409, A3410
Brand	APPLE
FCC ID	BCG-E8726A, BCG-E8727A, BCG-E8728A
EUT Description	SMARTPHONE
Serial Number	MODEL (A3408): C07H9K000K60000J57 (CONDUCTED) AND MWRC9WQ6KN (RADIATED) MODEL (A3409):C07H910005L0000N6H (CONDUCTED) AND QV6H6WR6YR (RADIATED) MODEL (A3410): C07H9A000G20000N6N(CONDUCTED) AND R0QQVMMXH7 (RADIATED)
Sample Receipt Date	2024-05-01
Date Tested	2024-08-01 TO 2024-10-23
Applicable Standards	FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90, and Part 96
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc.and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc.will constitute fraud and shall nullify the document.

Approved & Released By:	Reviewed By:	Prepared By:
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Mengistu Mekuria Staff Engineer UL Verification Services Inc.	Binod Sitaula Laboratory Engineer Associate UL Verification Services Inc.	Tewodros Woldemichael Laboratory Engineer UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- ANSI C63.26:2015
- FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90, and Part 96
- FCC KDB 971168 D01: Power Meas License Digital Systems
- FCC KDB 971168 D02: Misc Rev Approv License Devices
- FCC KDB 412172 D01: Determining ERP and EIRP
- FCC KDB 484596 D01: Referencing Test Data

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
\boxtimes	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA			
\boxtimes	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
	Building 3: 843 Auburn Court, Fremont, CA 94538, USA	US0104	2324A	550739
\boxtimes	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
\boxtimes	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

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4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. **METROLOGICAL TRACEABILITY**

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. **DECISION RULES**

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. **MEASUREMENT UNCERTAINTY**

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

PARAMETER	•	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB	
Power Spectral Density	2.466 dB	
Time Domain Measurements Using SA	3.39 %	
RF Power Measurement Direct Method Using Power Meter	0.450 dB (Pea	ak); 1.300 dB (Ave).
Radio Frequency (Spectrum Analyzer)	141.16 Hz	
Occupied Bandwidth	1.22%	
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB	
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB	
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB	
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB	
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB	
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB	
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB	

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

SAMPLE CALCULATION 4.4.

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

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5. INTRODUCTION OF TEST DATA REUSE

5.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth (BT), Global Positioning System (GPS), Near-Field Communication (NFC), and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC and ISED Canada.

5.2. INTRODUCTION

This application for certification is leveraging the data reuse procedures from KDB 484596 D01 based on reference FCC ID: BCG-E8725A to cover variant model FCC ID: BCG-E8726A, FCC ID: BCG-E8727A, and FCC ID: BCG-E8728A. The major difference between the parent/reference model and the variant model is the depopulation of some LTE and 5G NR Bands. All other circuitry and features are identical. The data reuse test plan was approved via manufacturer KDB inquiry.

5.3. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3212, A3408, A3409, and A3410.

These models are highly similar, with the only difference being the supported cellular bands.

Model	FCC ID	Model Changes
A3212	BCG-E8725A	Reference Model
A3408	BCG-E8726A	Variant model Same as the reference model
A3409	BCG-E8727A	Variant model Removed LTE B14/29/71 and 5G NR n14/n71/n29 from the reference model
A3410	BCG-E8728A	Variant model Removed LTE B14/29/53/71 and 5G NR n14/n53/n71/n29 from the reference model

^{*}Note:

They have the same PCB layout, design, common components, antennas, antenna locations and housing cases.

More specifically, their cellular modem, Wi-Fi, BT, NFC, WPT and UWB transmitters are identical, and removal of cellular bands is done by software and depopulation of band-specific components associated with the removed bands.

Spot check verification has been done on models A3408, A3409 and A3410 in accordance with the test plan approved via KDB inquiry. Spot checks were performed for conducted output power in all bands and radiated spurious emissions on selected bands representing bands below 1GHz, in the range 1 - 2GHz, in the range 2 - 3GHz and above 3GHz. For data referencing the criteria from KDB 484596 D01 v02r03 equation (2).

$$\begin{split} d_{dB} &= \mid V_{dB} - R_{dB} \mid \leq (3 + M_{dB} / 20) \; dB \qquad \text{, for } 0 \leq M_{dB} \leq 60 \; dB \\ \\ d_{dB} &= \mid V_{dB} - R_{dB} \mid = 6 \; dB \qquad \qquad \text{, for } M_{dB} > 60 \; dB \end{split} \tag{2}$$

Where: d_{dB} deviation from Reference data, R_{dB} variant spot check level, and R_{dB} measurement level

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5.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3408

A3408 ANTENNA PORT SPOT CHECK RESULTS									
Technology Worst Mode Test Item Measured Original Model: A3212 Sub Model: A3408									
Worst Mode	Test Item	Frequency (MHz)	FCC ID: BCG-E8725A (dBm)	FCC ID: BCG-E8726A (dBm)	Delta (dB)	Remarks			
QPSK @ 20 MHz BW	Cond Power	2560	25.70	25.70	0.0				
BPSK @ 40 MHz BW	Cond Power	2535	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	704	25.70	25.70	0.0				
BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	782	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	793	25.70	25.70	0.0				
BPSK @ 10 MHz BW	Cond Power	793	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	710	25.70	25.70	0.0				
QPSK @ 20 MHz BW	Cond Power	1905	25.70	25.70	0.0				
BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0.0				
QPSK @10 MHz BW	Cond Power	819	25.70	25.70	0.0				
BPSK @10 MHz BW	Cond Power	819	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0.0				
BPSK @20 MHz BW	Cond Power	836.5	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0.0				
BPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0.0				
QPSK @ 20 MHz BW	Cond Power	2593	28.70	28.70	0.0				
BPSK @ 100 MHz BW	Cond Power	2593	28.70	28.70	0.0				
QPSK @ 20 MHz BW	Cond Power	3625	25.70	25.70	0.0				
BPSK @ 40 MHz BW	Cond Power	3620	25.70	25.70	0.0				
QPSK @ 10 MHz BW	Cond Power	2489	20.70	20.70	0.0				
BPSK @ 10 MHz BW	Cond Power	2488.5	20.70	20.70	0.0				
QPSK @ 20 MHz BW	Cond Power	1745	25.70	25.70	0.0				
BPSK @ 40 MHz BW	Cond Power	1745	25.70	25.70	0.0				
QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0.0				
QPSK @ 20 MHz BW	Cond Power	688	25.70	25.70	0.0				
BPSK @ 20 MHz BW	Cond Power	673	25.70	25.70	0.0				
BPSK @ 100 MHz BW	Cond Power	3500	28.70	28.70	0.0				
BPSK @ 100 MHz BW	Cond Power	3840	28.70	28.70	0.0				
	QPSK @ 20 MHz BW BPSK @ 10 MHz BW QPSK @ 20 MHz BW QPSK @ 10 MHz BW APSK @ 10 MHz BW QPSK @ 10 MHz BW APSK @ 10 MHz BW QPSK @ 10 MHz BW BPSK @ 10 MHz BW QPSK @ 10 MHz BW APSK @ 20 MHz BW APSK @ 10 MHz BW BPSK @ 10 MHz BW APSK @ 20 MHz BW APSK @ 10 MHz BW BPSK @ 10 MHz BW APSK @ 20 MHz BW BPSK @ 10 MHz BW APSK @ 20 MHz BW BPSK @ 20 MHz BW	Worst Mode Cond Power BPSK @ 40 MHz BW Cond Power BPSK @ 10 MHz BW Cond Power GPSK @ 20 MHz BW Cond Power	Worst Mode Test Item Measured Frequency (MHz) QPSK @ 20 MHz BW Cond Power 2560 BPSK @ 40 MHz BW Cond Power 2535 QPSK @ 10 MHz BW Cond Power 704 BPSK @ 15 MHz BW Cond Power 707.5 QPSK @ 10 MHz BW Cond Power 782 QPSK @ 10 MHz BW Cond Power 793 BPSK @ 10 MHz BW Cond Power 710 QPSK @ 20 MHz BW Cond Power 1905 BPSK @ 10 MHz BW Cond Power 819 BPSK @ 10 MHz BW Cond Power 819 BPSK @ 10 MHz BW Cond Power 836.5 BPSK @ 10 MHz BW Cond Power 2310 BPSK @ 10 MHz BW Cond Power 2310 BPSK @ 10 MHz BW Cond Power 2593 BPSK @ 10 MHz BW Cond Power 2593 BPSK @ 100 MHz BW Cond Power 3625 BPSK @ 10 MHz BW Cond Power 2489 BPSK @ 10 MHz BW Cond Power 1745 BPSK @ 10 MHz BW Cond Power	Worst Mode Test Item Measured Frequency (MHz) Original Model: A3212 QPSK @ 20 MHz BW Cond Power 2560 25.70 BPSK @ 40 MHz BW Cond Power 2535 25.70 QPSK @ 10 MHz BW Cond Power 704 25.70 BPSK @ 15 MHz BW Cond Power 705 25.70 BPSK @ 10 MHz BW Cond Power 782 25.70 QPSK @ 10 MHz BW Cond Power 793 25.70 BPSK @ 10 MHz BW Cond Power 793 25.70 QPSK @ 10 MHz BW Cond Power 710 25.70 QPSK @ 20 MHz BW Cond Power 1905 25.70 QPSK @ 20 MHz BW Cond Power 1882.5 25.70 QPSK @ 10 MHz BW Cond Power 819 25.70 QPSK @ 10 MHz BW Cond Power 819 25.70 QPSK @ 10 MHz BW Cond Power 836.5 25.70 QPSK @ 10 MHz BW Cond Power 2310 25.70 QPSK @ 10 MHz BW Cond Power 2593 28.70	Worst Mode Test Item Measured Frequency (EMP) Original Model: A3212 Sub Model: A3408 QPSK @ 20 MHz BW Cond Power 2560 25.70 25.70 25.70 BPSK @ 40 MHz BW Cond Power 2535 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 704 25.70 25.70 25.70 BPSK @ 16 MHz BW Cond Power 707.5 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 782 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 793 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 793 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 1905 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 1882.5 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 819 25.70 25.70 25.70 GPSK @ 10 MHz BW Cond Power 836.5 25.70 25.70 <td>Worst Mode Test Item Measured Frequency Fold (19) Criginal Model: A3212 FOC ID: BCG-E8728A FOC ID: BCG-E8728A (68m) Delta (8B) OPSK @ 20 MHz BW Cond Power Fold (19) 2560 25.70 25.70 0.0 BPSK @ 40 MHz BW Cond Power Cond Power For Cond Fold (19) 2535 25.70 25.70 0.0 GPSK @ 10 MHz BW Cond Power For Cond Fold (19) 704 25.70 25.70 0.0 GPSK @ 15 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For For Say 25.70 25.70 0.0 0.0 BPSK @ 10 MHz BW Cond Power For For For For For For For For For Fo</td>	Worst Mode Test Item Measured Frequency Fold (19) Criginal Model: A3212 FOC ID: BCG-E8728A FOC ID: BCG-E8728A (68m) Delta (8B) OPSK @ 20 MHz BW Cond Power Fold (19) 2560 25.70 25.70 0.0 BPSK @ 40 MHz BW Cond Power Cond Power For Cond Fold (19) 2535 25.70 25.70 0.0 GPSK @ 10 MHz BW Cond Power For Cond Fold (19) 704 25.70 25.70 0.0 GPSK @ 15 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For Say 25.70 25.70 0.0 0.0 GPSK @ 10 MHz BW Cond Power For For For Say 25.70 25.70 0.0 0.0 BPSK @ 10 MHz BW Cond Power For For For For For For For For For Fo			

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	A3408 RADIATED SPOT CHECK RESULTS										
			Measured	Original Model: A3212	Sub Model: A3408		Margin (dB)				
Technology	Worst Mode	Test Item	Frequency (MHz)	FCC ID: BCG-E8725A (dBm)			M(dB)=C(dB)-R(dB)	Remarks			
LTE											
BAND 7	QPSK @ highest BW	RSE	2535.0	-44.7	-41.96	2.74	-17.94	Note 1			
BAND /											
LTE	ODCK @ highest DW	RSE	4000 F	44.00	-43.74	0.32	-31.06	Note 1			
BAND 25	QPSK @ highest BW	KSE	1882.5	-44.06	-43.74	0.32					
			I	· I							
LTE	QPSK @ highest BW	RSE 836.5	836.5	-45.21	-45.73	-0.52	-32.21	Note 1			
BAND 26 (P22)	BAND 26 (P22)				16.7.0		-				
LTE	QPSK @ 20 MHz BW	RSE	3625.0	-55.35	-56.78	-1.43	-15.35	Note 1			
BAND 48	QF SN W 20 MINZ BW	NOE	3025.0	-55.55	-50.76	-1.43	-10.00	Note 1			

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary. Full set of measurements performed.

5.5. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3409

A3409 ANTENNA PORT SPOT CHECK RESULTS										
			Measured	Original Model: A3212	Sub Model: A3409		Remarks			
Technology	Worst Mode	Test Item	Frequency (MHz)	FCC ID: BCG-E8725A (dBm)	FCC ID: BCG-E8727A (dBm)	Delta (dB)				
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2560	25.70	25.70	0.0				
5G NR BAND N7	BPSK @ 40 MHz BW	Cond Power	2535	25.70	25.70	0.0				
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	704	25.70	25.70	0.0				
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0.0				
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782	25.70	25.70	0.0				
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710	25.70	25.70	0.0				
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1905	25.70	25.70	0.0				
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0.0				
LTE BAND 26 (90S)	QPSK @10 MHz BW	Cond Power	819	25.70	25.70	0.0				
5G NR BAND N26 (90S)	BPSK @10 MHz BW	Cond Power	819	25.70	25.70	0.0				
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0.0				
5G NR BAND N26 (P22)	BPSK @20 MHz BW	Cond Power	836.5	25.70	25.70	0.0				
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0.0				
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0.0				
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593	28.70	28.70	0.0				
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593	28.70	28.70	0.0				
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3625	25.70	22.90	-2.8				
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3620	25.70	22.90	2.8				
LTE BAND 53	QPSK @ 10 MHz BW	Cond Power	2489	20.70	20.70	0.0				
5G NR BAND N53	BPSK @ 10 MHz BW	Cond Power	2488.5	20.70	20.70	0.0				
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745	25.70	25.70	0.0				
5G NR BAND N66	BPSK @ 40 MHz BW	Cond Power	1745	25.70	25.70	0.0				
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0.0				
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500	28.70	28.00	-0.7				
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840	28.70	28.70	0.0				

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A3409 RADIATED SPOT CHECK RESULTS											
			Measured	Original Model: A3212	Sub Model: A3409		Margin (dB)				
Technology	Worst Mode	Test Item	Frequency (MHz)	FCC ID: BCG-E8725A (dBm)	FCC ID: BCG-E8727A (dBm)	Delta (dB)	M(dB)=C(dB)-R(dB)	Remarks			
LTE BAND 7	QPSK @ highest BW	RSE	2535.0	-44.7	-41.84	2.86	-17.49	Note 1			
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-44.06	-43.18	0.88	-31.06	Note 1			
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-45.21	-44.35	0.86	-32.21	Note 1			
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3625.0	-55.35	-56.76	-1.41	-15.35	Note 1			

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary. Full set of measurements performed

5.6. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3410

A3410 ANTENNA PORT SPOT CHECK RESULTS										
	Sub Model: A3410									
Technology	Worst Mode	Test Item	Frequency (MHz)	FCC ID: BCG-E8725A (dBm)	FCC ID: BCG-E8728A (dBm)	Delta (dB)	Remarks			
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2560	25.70	25.70	0.0				
5G NR BAND N7	BPSK @ 40 MHz BW	Cond Power	2535	25.70	25.70	0.0				
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	704	25.70	25.70	0.0				
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0.0				
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782	25.70	25.70	0.0				
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710	25.70	25.70	0.0				
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1905	25.70	25.70	0.0				
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0.0				
LTE BAND 26 (90S)	QPSK @10 MHz BW	Cond Power	819	25.70	25.70	0.0				
5G NR BAND N26 (90S)	BPSK @10 MHz BW	Cond Power	819	25.70	25.70	0.0				
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0.0				
5G NR BAND N26 (P22)	BPSK @20 MHz BW	Cond Power	836.5	25.70	25.70	0.0				
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0.0				
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0.0				
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593	28.70	28.70	0.0				
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593	28.70	28.70	0.0				
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3625	25.70	22.90	-2.8				
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3620	25.70	22.90	2.8				
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745	25.70	25.70	0.0				
5G NR BAND N66	BPSK @ 40 MHz BW	Cond Power	1745	25.70	25.70	0.0				
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0.0				
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500	28.70	28.70	0.0				
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840	28.70	28.70	0.0				

DATE: 2025-01-22 FCC ID: BCG-E8726A, BCG-E8727A, BCG-E8728A

REPORT NO: 15175332-E2V2 EUT MODEL: A3408, A3409, A3410

A3410 RADIATED SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured Original Model: A3212 Sub Model: A3410		Sub Model: A3410		Margin (dB)	
			Frequency (MHz)	FCC ID: BCG-E8725A (dBm)	FCC ID: BCG-E8728A (dBm)	Delta (dB)	M(dB)=C(dB)-R(dB)	Remarks
LTE BAND 7	QPSK @ highest BW	RSE	2535.0	-44.7	-47.29	-2.59	-17.94	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-44.06	-43.57	0.49	-31.06	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-45.21	-44.01	1.20	-32.21	Note 1
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3652.0	-55.35	-56.90	-1.55	-15.35	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary. Full set of measurements performed

5.7. REFERENCE DETAIL

Reference application that contains the reused reference data.

Reference FCC ID	Variant model FCC ID	Reference Test Report / Data Referencing Section	Equipment Class
		15175342 -E8 / All Sections	CBE
	BCG-E8726A	15175342 -E10 / All Sections	PCE
		15175342 -E17 (B53/n53) / All Sections	TNE
	BCG-E8727A	15175342 -E8 / All Sections	CBE
BCG-E8725A		15175342 -E10 / All Sections except LTE/5G NR Band B14/71 sections	PCE
		15175342 -E17 (B53/n53) / All Sections	TNE
		15175342 -E8 / All Sections	CBE
	BCG-E8728A	15175342 -E10 / All Sections except LTE/5G NR Band B14/71 sections	PCE

5.8. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 1.0.23.

5.9. SPOT CHECK WORST-CASE CONFIGURATION AND MODE

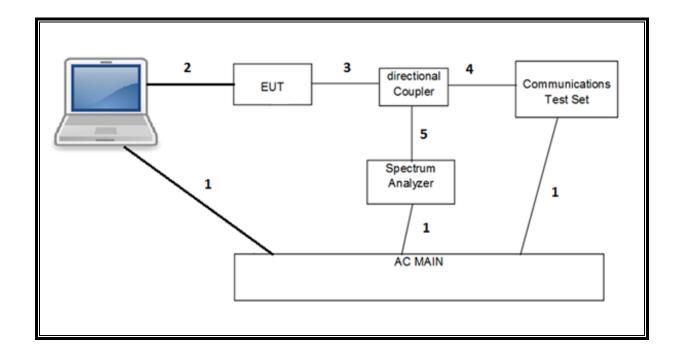
The spot checks radiated tests were performed on the worst-case orientations and configurations based on the parent model of reference report.

The spot checks conducted output power were performed on the antenna port that has highest output power based on the parent model of reference report.

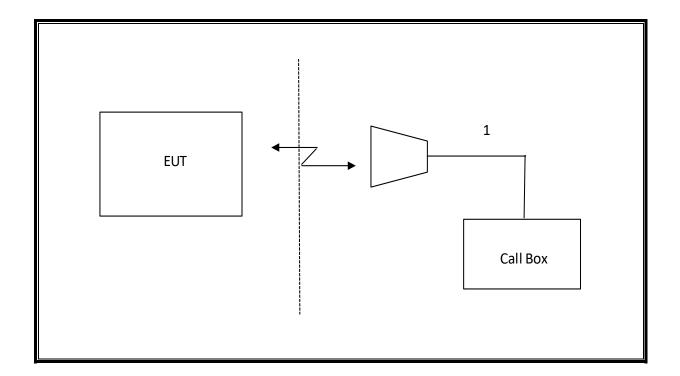
5.10. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT								
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC		
Laptop		Apple	MacBook Pro	HRP082673		BCGA1708		
AC/DC adapter		Apple	A1718	C4H64450HH3GN8RA6				
	I/O CABLES (RF CONDUCTED TEST)							
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks		
1	AC	3	US 115V	Un-shielded	2.0	N/A		
2	USB	1	DC	Un-shielded	1.0	N/A		
3	RF In/Out	1	EUT	Un-shielded	0.6	N/A		
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2	N/A		
5	RF In/Out	1	Barrel	N/A	N/A	N/A		
I/O CABLES (RF RADIATED TEST)								
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks		
1	RF In/Out	1	Antenna	Un-shielded	5.0	N/A		

CONDUCTED SETUP



RADIATED SETUP



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	Asset	Cal Due		
*RF Filter Box, 1-18GHz	UL-FR1	NA	217255	2024-10-31		
RF Filter Box, 1-18GHz	UL-FR1	RATS 2	226781	2025-03-30		
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	430250	2025-10-31		
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2025-02-28		
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025-02-28		
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85943	2025-02-28		
Directional Coupler	KRYTAR	152610	198816	2024-10-31		
Directional Coupler	KRYTAR	152610	231664	2025-01-22		
Power Meter, P-series single channel	Keysight	N1912A	90719	2025-01-31		
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	81319	2025-01-31		
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	231739	2025-01-31		
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	245120	2025-02-28		
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85212	2025-02-28		
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	222793	2025-02-28		
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	222797	2025-02-28		
DC Power Supply	GWINSTEK	GPS18500	N/A	C.N.R.		
UL AUTOMATION SOFTWARE						
CLT Software	CLT Software UL UL RF V2023.11.21.0					
Power Measurement Software	UL	UL RF	V2	023.08.14.0		
Radiated test software	UL	UL RF	Ver 9	Ver 9.5 2023-05-01		

NOTES:

^{*} Testing is completed before equipment expiration date.

REPORT NO: 15175332-E2V2 DATE: 2025-01-22 EUT MODEL: A3408, A3409, A3410 FCC ID: BCG-E8726A, BCG-E8727A, BCG-E8728A

Appendix A – Reference Test Report

Attached is the test report (15175342-E8, 15175342-E10, 15175342-E16, and 15175342-E17) containing the reference data from the parent model as detailed in section 5.7.