



CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE: MPE ASSESSMENT Part 2 of 2

Motorola Solutions Inc.
EME Test Laboratory

Motorola Solutions Malaysia Sdn Bhd

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Date of Report: 04/08/2025

Report Revision: D

Responsible Engineer: Alfred Hoe (EME Senior Engineer)
Report author: Alfred Hoe (EME Senior Engineer)
Date(s) Tested: 2/15/2017-3/27/2017; 07/28/2024-07/31/2024, 08/02/2024, 08/16/2024, 08/20/2024
Manufacturer: Futurecom System Group
Manufacturer Location: Futurecom Systems Group, ULC. 3277 Langstaff Rd, Concord, ON L4K 5P8, Canada.
Date submitted for test: 01/13/2017; 05/10/2024
DUT Description: DVR UHF (380-512 MHz), Digital Vehicular Repeater
 Companion Mobile: APX 8500 mobile All Bands (VHF, UHF, 7/800)
 CW, Bluetooth, Bluetooth LE, WLAN 2.4GHz & WLAN 5GHz
Test TX mode(s):
Max. Power output: Refer to Table 6 (Report Part 1 of 2)
TX Frequency Bands: Refer to Table 6 (Report Part 1 of 2)
Signaling type: FM, TDMA, FHSS(Bluetooth), WLAN 2.4GHz 802.11b/g/n & WLAN 5GHz 802.11a/n/ac
Model(s) Tested: DVR: MOBEXCOM DVRS UHF (DQPM DVR4000P, DQPM DVR5000P, DQPM DVR6000P)
 Companion Mobile: M37TSS9PW1CN (PHUW2000D)
Model(s) Certified: Refer Section 1.0 Introduction (Report Part 1 of 2)
(HVIN/PMN)
Serial Number(s): 16102684; 16030465; 16102751 (DVR), 681IZN6305(Companion Mobile)
Classification: Occupational/Controlled Environment
Firmware Version (FVIN): D32.50.27 (Companion Mobile)
Applicant Name: Motorola Solutions Inc.
Applicant Address: Plot 2A, Medan Bayan Lepas Mukim, 12 SWD, 11900 Bayan Lepas, Penang, Malaysia
FCC ID: DVR: LO6-DVRSUHF (380-512MHz)
 Companion Mobile: AZ492FT7180 (150.8-173.4 MHz, 406.1-512 MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2402-2480 MHz, 2412-2462 MHz & 5180 – 5825)
 This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
FCC Test Firm 823256
Registration Number:
IC: DVR:2098B- DVRSUHF (380-512MHz)
 Companion Mobile: 109U-92FT7180 (138-174 MHz, 406.1 – 430 MHz, 450-470MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2402-2480 MHz, 2412-2462 MHz & 5180 – 5825)
 This report contains results that are immaterial for ISED Canada equipment approval, which are clearly identified.
ISED Test Site 24843
registration:

The MPE results clearly demonstrate compliance with FCC/ISED Occupational/Controlled RF Exposure limits. FCC/ISED rules require compliance for Passengers and Bystanders to the FCC/ISED General Population/Uncontrolled limits.

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report (no deviation from standard methods). This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc. EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. The results and statements contained in this report pertain only to the device(s) evaluated herein.

Saw Sun Hock (Approval Signatory)
Approved Date: 04/09/2025

Appendix D - MPE Test Results Summary for DVR UHF

Table D.1**MPE assessment for DVR UHF - trunk mounted antenna - Bystander**

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	BS1	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.005	0.27	1.9	0.16	3.3
						9.90	417.5000	0.006	0.28	2.1	0.16	3.6
						9.60	429.9875	0.007	0.29	2.5	0.17	4.4
Trunk	BS2	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.016	0.27	5.8	0.16	9.8
						9.90	417.5000	0.015	0.28	5.4	0.16	9.2
						9.60	429.9875	0.015	0.29	5.2	0.17	9.0
Trunk	BS3	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.021	0.27	7.9	0.16	13.5
						9.90	417.5000	0.021	0.28	7.4	0.16	12.8
						9.60	429.9875	0.026	0.29	9.0	0.17	15.6
Trunk	BS4	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.041	0.27	15.2	0.16	25.9
						9.90	417.5000	0.039	0.28	14.0	0.16	24.2
						9.60	429.9875	0.035	0.29	12.4	0.17	21.4
Trunk	BS5	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.036	0.27	13.2	0.16	22.5
						9.90	417.5000	0.026	0.28	9.3	0.16	16.0
						9.60	429.9875	0.023	0.29	8.1	0.17	14.1
Trunk	BS1	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.005	0.30	1.6	0.17	2.8
						9.90	460.0000	0.004	0.31	1.2	0.17	2.2
						10.00	470.0000	0.003	0.31	0.9	0.18	1.5
Trunk	BS2	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.006	0.30	2.1	0.17	3.8
						9.90	460.0000	0.007	0.31	2.3	0.17	4.0
						10.00	470.0000	0.006	0.31	2.0	0.18	3.6
Trunk	BS3	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.014	0.30	4.6	0.17	8.1
						9.90	460.0000	0.013	0.31	4.3	0.17	7.6
						10.00	470.0000	0.014	0.31	4.3	0.18	7.7
Trunk	BS4	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.022	0.30	7.5	0.17	13.1
						9.90	460.0000	0.018	0.31	5.9	0.17	10.5
						10.00	470.0000	0.019	0.31	6.1	0.18	10.9

Note:

Results in bold font are configurations with highest percentage of limits.

Table D.1 (Continued)**MPE assessment for DVR UHF - trunk mounted antenna - Bystander**

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	BS5	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.014	0.30	4.6	0.17	8.1
						9.90	460.0000	0.013	0.31	4.3	0.17	7.7
						10.00	470.0000	0.014	0.31	4.6	0.18	8.1
Trunk	BS1	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.003	0.31	0.9	0.18	1.6
						9.61	484.0000	0.003	0.32	0.9	NA	NA
						9.83	498.0000	0.003	0.33	0.8	NA	NA
						9.75	512.0000	0.004	0.34	1.0	NA	NA
Trunk	BS2	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.005	0.31	1.7	0.18	3.1
						9.61	484.0000	0.007	0.32	2.3	NA	NA
						9.83	498.0000	0.009	0.33	2.6	NA	NA
						9.75	512.0000	0.012	0.34	3.6	NA	NA
Trunk	BS3	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.013	0.31	4.2	0.18	7.5
						9.61	484.0000	0.014	0.32	4.4	NA	NA
						9.83	498.0000	0.012	0.33	3.8	NA	NA
						9.75	512.0000	0.012	0.34	3.6	NA	NA
Trunk	BS4	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.017	0.31	5.5	0.18	9.7
						9.61	484.0000	0.019	0.32	5.9	NA	NA
						9.83	498.0000	0.018	0.33	5.4	NA	NA
						9.75	512.0000	0.018	0.34	5.3	NA	NA
Trunk	BS5	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.016	0.31	5.0	0.18	9.0
						9.61	484.0000	0.018	0.32	5.6	NA	NA
						9.83	498.0000	0.016	0.33	4.8	NA	NA
						9.75	512.0000	0.015	0.34	4.3	NA	NA

Note:

Results in bold font are configurations with highest percentage of limits.

Table D.2**MPE assessment for DVR UHF– trunk mounted antenna - Passenger**

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	PB	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.104	0.27	38.4	0.16	65.4
						9.90	417.5000	0.092	0.28	32.9	0.16	56.6
						9.60	429.9875	0.065	0.29	22.5	0.17	39.1
Trunk	PF	E	1	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.044	0.27	16.1	0.16	27.5
						9.90	417.5000	0.028	0.28	10.2	0.16	17.5
						9.60	429.9875	0.035	0.29	12.2	0.17	21.2
Trunk	PB	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.153	0.30	51.1	0.17	90.0
						9.90	460.0000	0.163	0.31	53.0	0.17	94.1
						10.00	470.0000	0.121	0.31	38.5	0.18	68.7
Trunk	PF	E	2	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.038	0.30	12.5	0.17	22.0
						9.90	460.0000	0.043	0.31	14.0	0.17	24.9
						10.00	470.0000	0.039	0.31	12.5	0.18	22.3
Trunk	PB	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.136	0.31	43.3	0.18	77.2
						9.61	484.0000	0.158	0.32	49.0	NA	NA
						9.83	498.0000	0.095	0.33	28.6	NA	NA
						9.75	512.0000	0.144	0.34	42.1	NA	NA
Trunk	PF	E	3	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.031	0.31	9.7	0.18	17.4
						9.61	484.0000	0.028	0.32	8.7	NA	NA
						9.83	498.0000	0.033	0.33	10.0	NA	NA
						9.75	512.0000	0.037	0.34	10.8	NA	NA

Note:

Results in bold font are configurations with highest percentage of limits.

Table D.3
DVR UHF MPE Results for FCC

P_{max} (W)	10	P_{initial} (W)	9.68	9.90	9.60	9.96	9.90	10.00	9.61	9.83	9.75
		FCCLimit (mW/cm²)	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.34

Table	Test Post.	Angle	Trunk / Roof	E/H Field	Antenna No.	f3	f4	f5	f6	f7	f8	f9	f10	f11
						406.5000	417.5000	429.9875	450.0000	460.0000	470.0000	484.0000	498.0000	512.0000
D.1	BS1		Trunk	E	1	0.005	0.006	0.007						
D.1	BS2		Trunk	E	1	0.016	0.015	0.015						
D.1	BS3		Trunk	E	1	0.021	0.021	0.026						
D.1	BS4		Trunk	E	1	0.041	0.039	0.035						
D.1	BS5		Trunk	E	1	0.036	0.026	0.023						
D.1	BS1		Trunk	E	2				0.005	0.004	0.003			
D.1	BS2		Trunk	E	2				0.006	0.007	0.006			
D.1	BS3		Trunk	E	2				0.014	0.013	0.014			
D.1	BS4		Trunk	E	2				0.022	0.018	0.019			
D.1	BS5		Trunk	E	2				0.014	0.013	0.014			
D.1	BS1		Trunk	E	3						0.003	0.003	0.003	0.004
D.1	BS2		Trunk	E	3						0.005	0.007	0.009	0.012
D.1	BS3		Trunk	E	3						0.013	0.014	0.012	0.012
D.1	BS4		Trunk	E	3						0.017	0.019	0.018	0.018
D.1	BS5		Trunk	E	3						0.016	0.018	0.016	0.015
D.2	PB		Trunk	E	1	0.104	0.092	0.065						
D.2	PF		Trunk	E	1	0.044	0.055	0.035						
D.2	PB		Trunk	E	2				0.153	0.163	0.121			
D.2	PF		Trunk	E	2				0.038	0.043	0.039			
D.2	PB		Trunk	E	3						0.136	0.158	0.095	0.144
D.2	PF		Trunk	E	3						0.031	0.028	0.033	0.037

Appendix E - MPE Test Results Summary for Companion Mobile LMR
(VHF, UHF 1, UHF 2 & 7/800)

The previous highest configuration from reference model M37TSS9PW1AN with FCC ID: AZ492FT7089/ IC ID: 109U-92FT7089 has been performed spot check. Table below indicated the reference model and spot check results.

Table E.1**MPE assessment for Companion Mobile LMR VHF (FCC)**

Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	FCC Limit	% To FCC Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	H	HAD4016A, 1/4 Wave (136-162MHz)	60.0	58.6	150.8000	0.095	0.20	47.70	Reference Configuration
					58.9		0.062	0.20	30.80	Measured
Roof	BS2	E	HAD4008A, 1/4 Wave (150.8-162MHz)	60.0	58.7	156.4000	0.084	0.20	42.10	Reference Configuration
					59.3		0.061	0.20	30.70	Measured
Roof	BS3	E	HAD4008A, 1/4 Wave (150.8-162MHz)	60.0	58.7	156.4000	0.071	0.20	35.70	Reference Configuration
					59.3		0.057	0.20	28.70	Measured
Roof	BS4	E	HAD4007A, 1/4 Wave (144-150.8MHz)	60.0	58.6	150.8000	0.061	0.20	30.30	Reference Configuration
					58.9		0.052	0.20	26.00	Measured
Roof	BS5	H	HAD4016A, 1/4 Wave (136-162MHz)	60.0	58.7	156.4000	0.032	0.20	16.10	Reference Configuration
					59.3		0.031	0.20	15.60	Measured
Spot Check - Highest Configuration Passenger Back										
Roof	PB	E	HAD4021A, 1/4 Wave (136-174MHz)	60.0	58.6	158.0125	0.140	0.20	69.30	Reference Configuration
					59.3		0.140	0.20	69.50	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	H	HAD4017A, 1/4 Wave (146-174MHz)	60.0	59.0	165.0125	0.086	0.20	42.9	Reference Configuration
					59.6		0.037	0.20	18.3	Measured

Table E.2**MPE assessment for Companion Mobile LMR UHF1 (FCC)**

UHF1 (406.1 - 470MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	FCC Limit	% To FCC Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.071	0.31	23.30	Reference Configuration
					52.7		0.076	0.31	24.90	Measured
Roof	BS2	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.045	0.31	14.80	Reference Configuration
					52.7		0.049	0.31	15.80	Measured
Roof	BS3	E	HAE6011A, 5/8 Wave (380-433MHz)	54.0	53.4	406.5000	0.034	0.27	12.60	Reference Configuration
					53.9		0.022	0.27	8.10	Measured
Roof	BS4	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.1	460.0000	0.025	0.31	8.10	Reference Configuration
					52.7		0.019	0.31	6.10	Measured
Roof	BS5	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.3	469.9875	0.020	0.31	6.50	Reference Configuration
					52.6		0.020	0.31	6.20	Measured
Spot Check - Highest Configuration Passenger Back										
Roof	PB	E	HAE6010A, 1/2 Wave (380-433MHz)	54.0	53.4	406.5000	0.060	0.27	23.30	Reference Configuration
					53.9		0.050	0.27	17.10	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	E	HAE6031A, 1/2 Wave (380-520MHz)	54.0	53.2	450.0125	0.050	0.30	17.50	Reference Configuration
					53.4		0.040	0.30	12.80	Measured

Table E.3**MPE assessment for Companion Mobile LMR UHF2 (FCC)**

UHF2 (450 - 512MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	FCC Limit	% To FCC Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.071	0.31	23.30	Reference Configuration
					52.7		0.076	0.31	24.90	Measured
Roof	BS2	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.045	0.31	14.80	Reference Configuration
					52.7		0.049	0.31	15.80	Measured
Roof	BS3	E	HAE6015A, 1/2 Wave (450-520MHz)	54.0	53.5	482.5000	0.044	0.32	13.80	Reference Configuration
					52.7		0.035	0.32	10.90	Measured
Roof	BS4	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.1	460.0000	0.025	0.31	8.10	Reference Configuration
					52.7		0.019	0.31	6.10	Measured
Roof	BS5	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.3	469.9875	0.020	0.31	6.50	Reference Configuration
					52.6		0.020	0.31	6.20	Measured
Spot Check - Highest Configuration Passenger Back										
Roof	PB	E	HAE6031A, 1/2 Wave (380-520MHz)	54.0	53.2	450.0125	0.054	0.30	18.10	Reference Configuration
					53.4		0.046	0.30	15.20	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	E	HAE6031A, 1/2 Wave (380-520MHz)	54.0	53.2	450.0125	0.052	0.30	17.50	Reference Configuration
					53.4		0.029	0.30	9.60	Measured

Table E.4**MPE assessment for Companion Mobile LMR 7/800 (FCC)**

7/800 (769 - 775MHz; 799 - 824MHz; 851 - 869MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	FCC Limit	% To FCC Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	770.0125	0.045	0.51	8.80	Reference Configuration
					35.2		0.032	0.51	6.20	Measured
Roof	BS2	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	775.9125	0.042	0.52	8.00	Reference Configuration
					35.9		0.029	0.52	5.50	Measured
Roof	BS3	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	775.9125	0.028	0.52	5.50	Reference Configuration
					35.9		0.018	0.52	3.40	Measured
Roof	BS4	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	775.9125	0.023	0.52	4.40	Reference Configuration
					35.9		0.019	0.52	3.60	Measured
Roof	BS5	E	HAF4017A, 1/4 Wave (764-870MHz)	42.0	41.6	806.0125	0.019	0.54	3.50	Reference Configuration
					41.2		0.011	0.54	2.00	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PB	E	HAF4017A, 1/4 Wave (764-870MHz)	42.0	41.6	806.0125	0.060	0.54	10.20	Reference Configuration
					41.2		0.030	0.54	6.00	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	E	HAF4017A, 1/4 Wave (764-870MHz)	42.0	41.6	806.0125	0.020	0.54	3.90	Reference Configuration
					41.2		0.020	0.54	3.10	Measured

Table E.5**MPE assessment for Companion Mobile LMR VHF (ISED Canada)**

VHF (138 - 174MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	ISED Limit	% To ISED Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	H	HAD4016A, 1/4 Wave (136-162MHz)	60.0	58.6	150.8000	0.095	0.13	73.90	Reference Configuration
					58.9		0.062	0.13	47.60	Measured
Roof	BS2	E	HAD4006A, 1/4 Wave (136-144MHz)	60.0	58.4	144.0000	0.084	0.13	71.10	Reference Configuration
					59.4		0.061	0.13	62.30	Measured
Roof	BS3	E	HAD4008A, 1/4 Wave (150.8-162MHz)	60.0	58.7	156.4000	0.071	0.13	55.20	Reference Configuration
					59.3		0.057	0.13	44.50	Measured
Roof	BS4	E	HAD4007A, 1/4 Wave (144-150.8MHz)	60.0	58.6	150.8000	0.061	0.13	47.00	Reference Configuration
					58.9		0.052	0.13	40.20	Measured
Roof	BS5	H	HAD4016A, 1/4 Wave (136-162MHz)	60.0	58.7	156.4000	0.032	0.13	25.00	Reference Configuration
					59.3		0.031	0.13	24.10	Measured
Spot Check - Highest Configuration Passenger Back										
Roof	PB	E	HAD4021A, 1/4 Wave (136-174MHz)	60.0	58.6	158.0125	0.140	0.13	107.3	Reference Configuration
					59.3		0.140	0.13	107.6	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	H	HAD4017A, 1/4 Wave (146-174MHz)	60.0	59.0	165.0125	0.086	0.13	66.40	Reference Configuration
					59.6		0.037	0.13	28.40	Measured

Table E.6**MPE assessment for Companion Mobile LMR UHF1 (ISED Canada)**

UHF1 (406.1 - 430MHz, 450 - 470MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	ISED Limit	% To ISED Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.071	0.17	41.30	Reference Configuration
					52.7		0.076	0.17	44.10	Measured
Roof	BS2	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.045	0.17	26.20	Reference Configuration
					52.7		0.049	0.17	28.10	Measured
Roof	BS3	E	HAE6011A, 5/8 Wave (380-433MHz)	54.0	53.4	406.5000	0.034	0.16	21.50	Reference Configuration
					53.9		0.022	0.16	13.90	Measured
Roof	BS4	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.1	460.0000	0.025	0.17	14.40	Reference Configuration
					52.7		0.019	0.17	10.80	Measured
Roof	BS5	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.3	469.9875	0.020	0.18	11.60	Reference Configuration
					52.6		0.020	0.18	11.20	Measured
Spot Check - Highest Configuration Passenger Back										
Roof	PB	E	HAE6010A, 1/2 Wave (380-433MHz)	54.0	53.4	406.5000	0.060	0.16	39.80	Reference Configuration
					53.9		0.050	0.16	29.20	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	E	HAE6031A, 1/2 Wave (380-520MHz)	54.0	53.2	450.0125	0.050	0.17	30.80	Reference Configuration
					53.4		0.040	0.17	22.60	Measured

Table E.7**MPE assessment for Companion Mobile LMR UHF2 (ISED Canada)**

UHF2 (450 - 470MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	ISED Limit	% To ISED Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.071	0.17	41.30	Reference Configuration
					52.7		0.076	0.17	44.10	Measured
Roof	BS2	E	HAE6013A, 1/2 Wave (380-470MHz)	54.0	53.1	460.0000	0.045	0.17	26.20	Reference Configuration
					52.7		0.049	0.17	28.10	Measured
Roof	BS3	E	HAE6015A, 1/2 Wave (450-520MHz)	54.0	53.5	482.5000	0.044	0.18	24.80	Reference Configuration
					52.7		0.035	0.18	19.60	Measured
Roof	BS4	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.1	460.0000	0.025	0.17	14.40	Reference Configuration
					52.7		0.019	0.17	10.80	Measured
Roof	BS5	E	RAE4014ARB, 5/8 Wave (445-470MHz)	54.0	53.3	469.9875	0.020	0.18	11.60	Reference Configuration
					52.6		0.020	0.18	11.20	Measured
Spot Check - Highest Configuration Passenger Back										
Roof	PB	E	HAE6031A, 1/2 Wave (380-520MHz)	54.0	53.2	450.0125	0.054	0.17	31.90	Reference Configuration
					53.4		0.046	0.17	26.80	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	E	HAE6031A, 1/2 Wave (380-520MHz)	54.0	53.2	450.0125	0.052	0.17	30.80	Reference Configuration
					53.4		0.029	0.17	16.80	Measured

Table E.8**MPE assessment for Companion Mobile LMR 7/800 (ISED Canada)**

7/800 (768 - 776MHz; 798 - 824MHz; 851 - 869MHz)										
Trunk/ Roof	Test Position	E/H Field	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	ISED Limit	% To ISED Spec Limit	Remark
Spot Check - Highest Configuration ByStander										
Roof	BS1	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	770.0125	0.045	0.25	18.30	Reference Configuration
					35.2		0.032	0.25	12.90	Measured
Roof	BS2	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	775.9125	0.042	0.25	16.80	Reference Configuration
					35.9		0.029	0.25	11.50	Measured
Roof	BS3	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	775.9125	0.028	0.25	11.50	Reference Configuration
					35.9		0.018	0.25	7.10	Measured
Roof	BS4	E	HAF4017A, 1/4 Wave (764-870MHz)	36.0	36.0	775.9125	0.023	0.25	9.20	Reference Configuration
					35.9		0.019	0.25	7.60	Measured
Roof	BS5	E	HAF4017A, 1/4 Wave (764-870MHz)	42.0	41.6	806.0125	0.019	0.25	7.40	Reference Configuration
					41.2		0.011	0.25	4.20	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PB	E	HAF4017A, 1/4 Wave (764-870MHz)	42.0	41.6	806.0125	0.060	0.25	21.70	Reference Configuration
					41.2		0.030	0.25	12.80	Measured
Spot Check - Highest Configuration Passenger Front										
Roof	PF	E	HAF4017A, 1/4 Wave (764-870MHz)	42.0	41.6	806.0125	0.020	0.25	8.20	Reference Configuration
					41.2		0.020	0.25	6.50	Measured