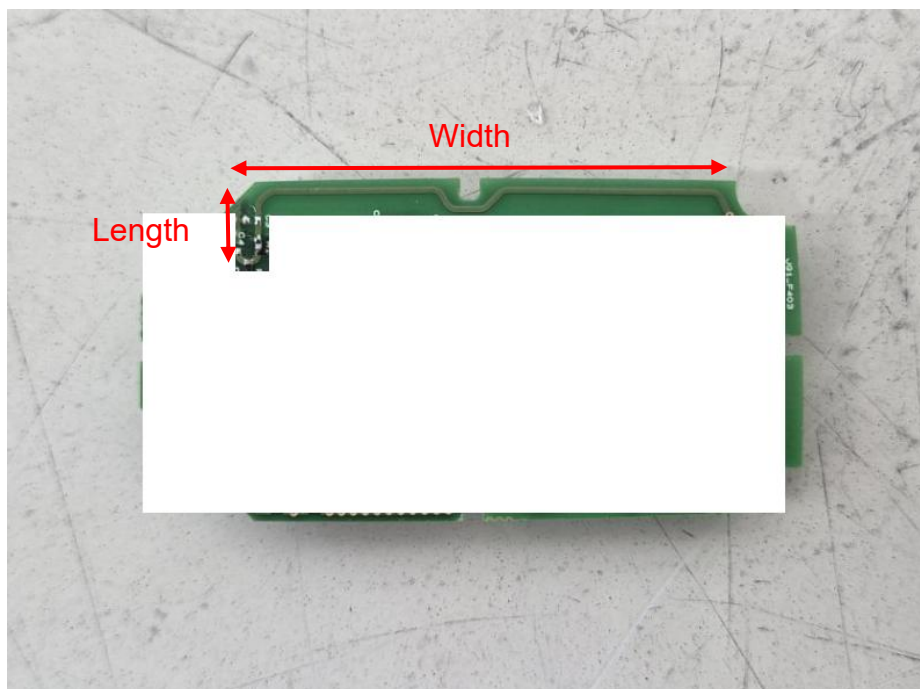


Antenna Information

Item	Contents
Antenna Type	PCB Pattern Antenna
Operation Frequency	433.92 MHz
Antenna peak gain	-7.15 dBi
Manufacturer / Model name	Hyundai Mobis Co., Ltd. / -
Address of manufacturer	203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea, 06141
Test Laboratory	ACE Technologies Corp.
Antenna Length	0.8 cm
Antenna Width	4.2 cm



■ Passive Gain



■ 2D, 3D Passive Gain

UHF 대역_3D		
Freq. [MHz]	Efficiency [dB]	Efficiency [%]
432.92	-9.87	10.3
433.92	-9.71	10.7
434.92	-9.57	11.0

UHF 대역_2D						
	freq.	Avg	Peak		Min	
	MHz	dBi	dBi	deg	dBi	deg
H	432.92	-10.98	-9.05	59	-14.47	239
	433.92	-10.89	-8.96	57	-14.35	239
	434.92	-10.80	-8.88	58	-14.26	240
E1	432.92	-11.32	-7.52	116	-17.60	291
	433.92	-11.13	-7.38	116	-17.33	291
	434.92	-10.95	-7.24	116	-17.04	291
E2	432.92	-11.09	-7.29	148	-19.18	294
	433.92	-10.92	-7.15	148	-19.07	294
	434.92	-10.76	-7.02	148	-18.95	294

설 명

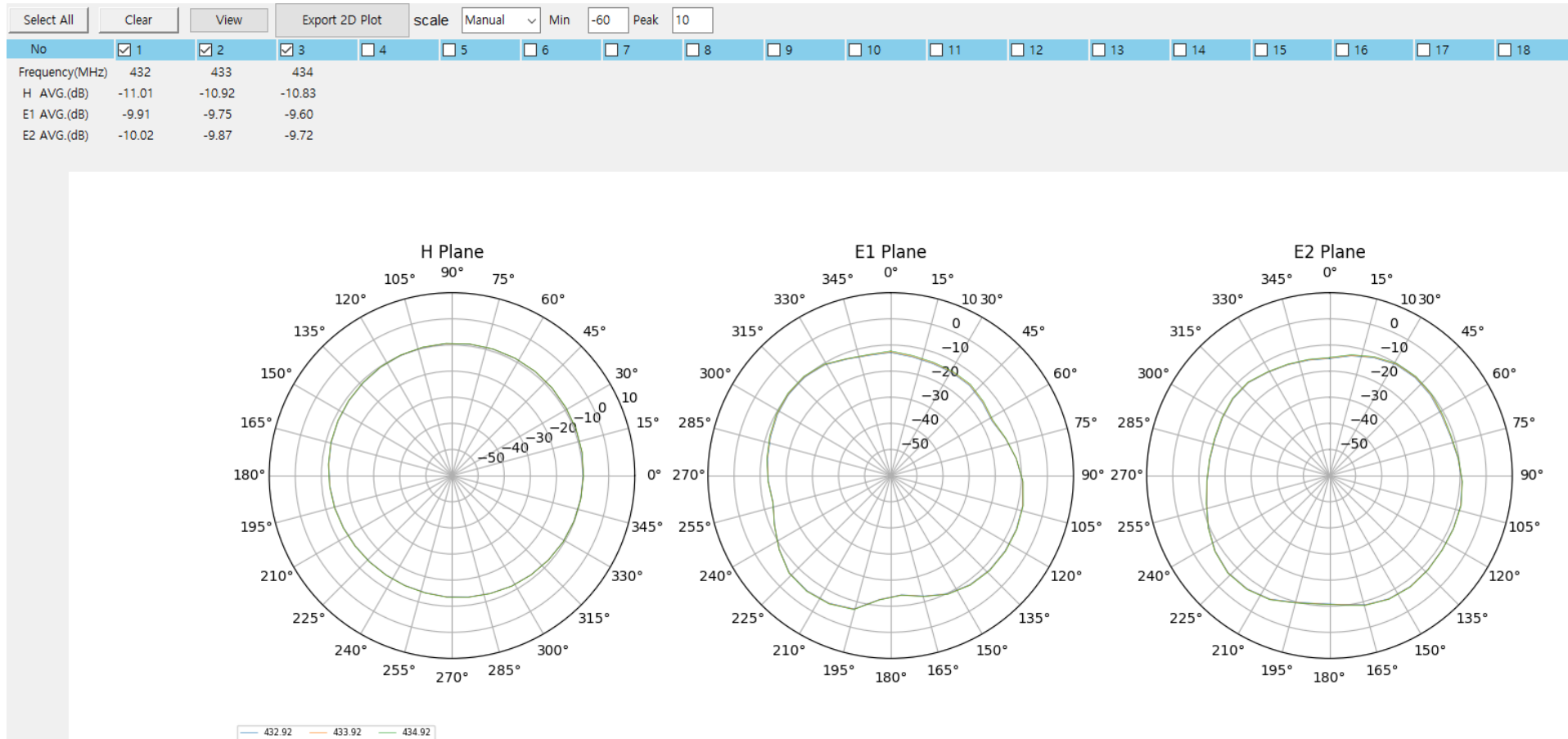
• 2D, 3D Passive 측정 DATA

UHF 대역_3D 측정



검토 결과 : UHF 대역_ALL Freq.

3D 측정_2D plot_ ALL Freq.



설 명

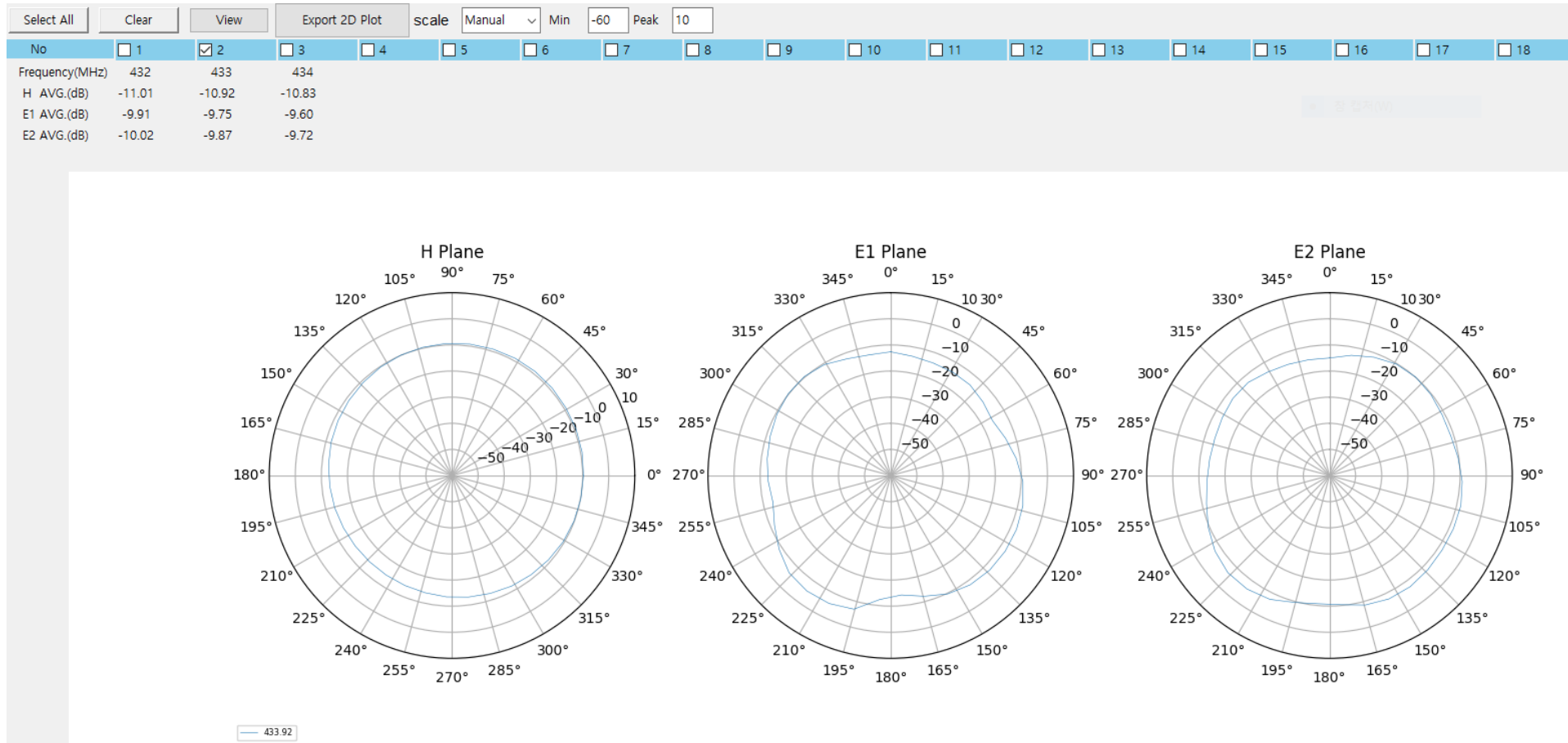
- 3D 안테나 방사패턴: Theta 15도, Phi 15도 간격 측정
- 2D Plane Plot: All Freq.

UHF 대역_3D 측정



검토 결과 : UHF 대역_433.82MHz

3D 측정_2D plot_433.92MHz



설 명

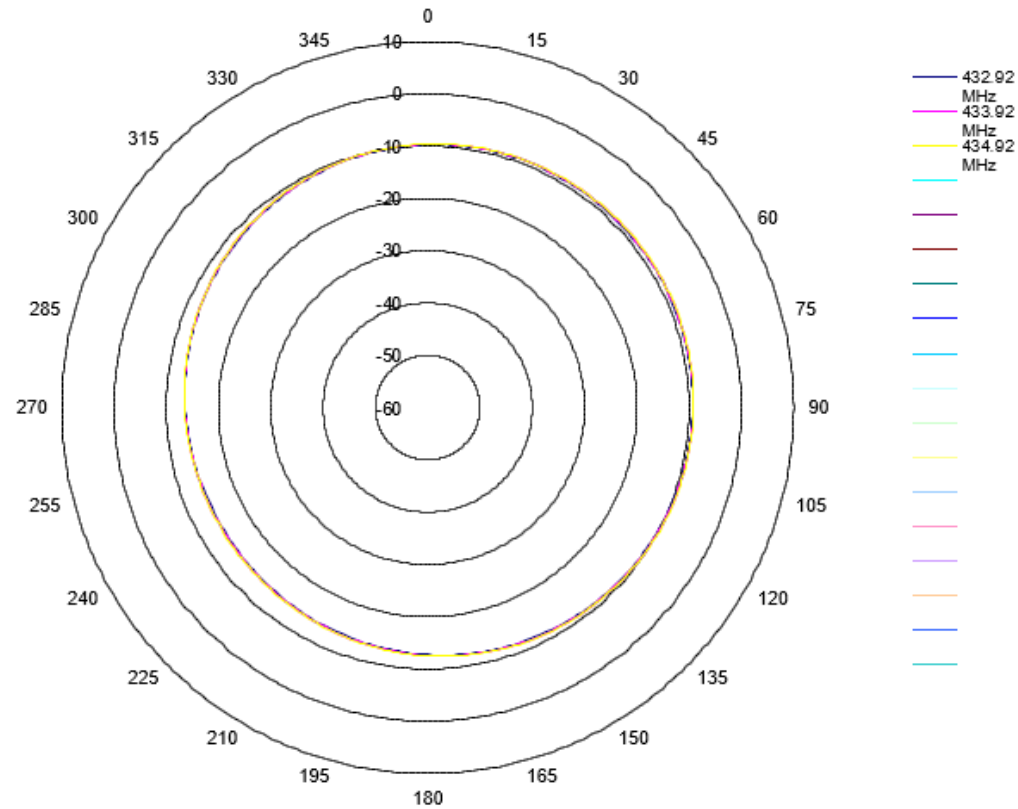
- 3D 안테나 방사패턴: Theta 15도, Phi 15도 간격 측정
- 2D Plane Plot: 433.92MHz

UHF 대역_2D 측정



검토 결과 : UHF 대역_2D_H

2D 측정_ H Plane



	<i>f</i>	<i>Avg</i>	<i>Peak</i>	<i>Min</i>	<i>HPBW</i>
	<i>MHz</i>	<i>dBi</i>	<i>dBi deg</i>	<i>dBi deg</i>	<i>deg</i>
1	432.92	-10.98	-9.05 59	-14.47 239	
2	433.92	-10.89	-8.96 57	-14.35 239	
3	434.92	-10.80	-8.88 58	-14.26 240	

Avg -10.89 dBi

설 명

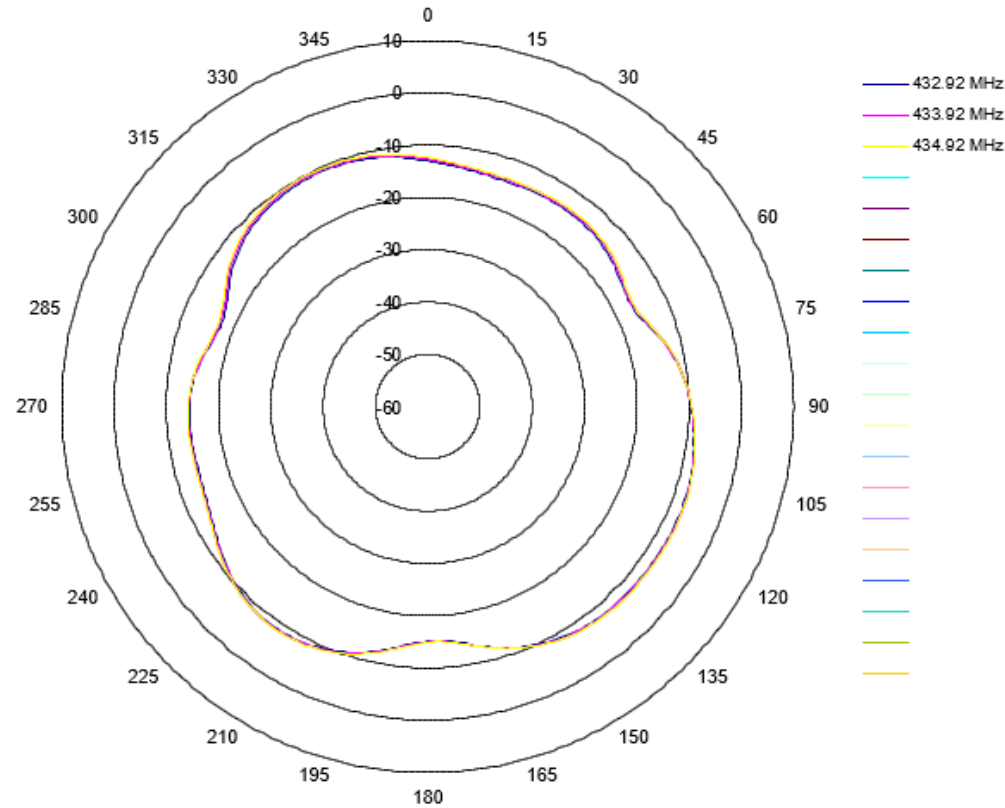
- 2D 안테나 방사패턴(H Plane): Theta 90도 고정, Phi 360도 측정(1도 간격)

UHF 대역_2D 측정



검토 결과 : UHF 대역_2D_E1

2D 측정_ E1 Plane



	<i>f</i>	<i>Avg</i>	<i>Peak</i>	<i>Min</i>	<i>HPBW</i>
	MHz	dBi	dBi	deg	deg
1	432.92	-11.32	-7.52	116	291
2	433.92	-11.13	-7.38	116	291
3	434.92	-10.95	-7.24	116	291

Avg -11.13 dBi

설 명

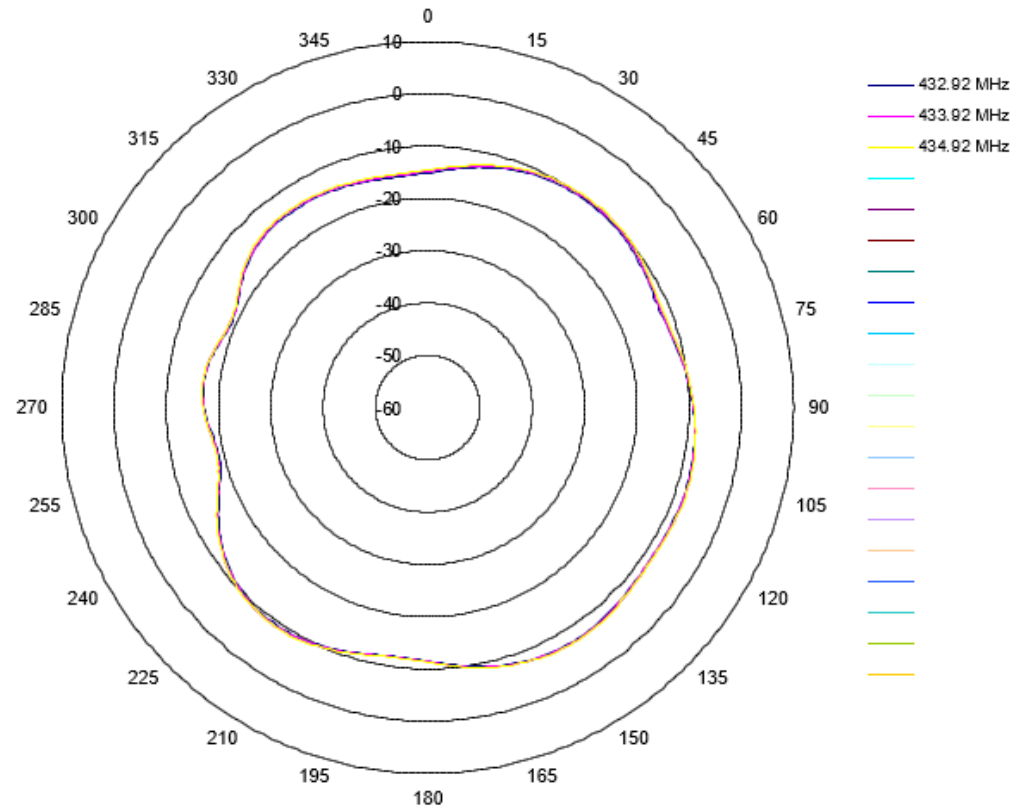
- 2D 안테나 방사패턴(E1 Plane): Phi 0도 고정, Theta 360도 측정(1도 간격)

UHF 대역_2D 측정



검토 결과 : UHF 대역_2D_E2

2D 측정_ E2 Plane



	<i>f</i>	<i>Avg</i>	<i>Peak</i>	<i>Min</i>	<i>HPBW</i>
	MHz	dBi	dBi	dBi	deg
1	432.92	-11.09	-7.29	-19.18	294
2	433.92	-10.92	-7.15	-19.07	294
3	434.92	-10.76	-7.02	-18.95	294

Avg -10.92 dBi

설 명

- 2D 안테나 방사패턴(E2 Plane): Phi 90도 고정, Theta 360도 측정(1도 간격)