

MAXIMUM PERMISSIBLE EXPOSURE (MPE)**Standard Applicable**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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Maximum Permissible Exposure (MPE) Evaluation

Internal Antenna

802.11b Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.51	0.00	16.51	0.04477	1
2437.00	16.35	0.00	16.35	0.04315	1
2462.00	16.36	0.00	16.36	0.04325	1

MPE Prediction (802.11b)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.51	(dBm)
Maximum peak output power at antenna input terminal:	44.77133042	(mW)
Duty cycle:	100	(%)
Maximum Pav :	44.77133042	(mW)
Antenna gain (typical):	1.8	(dBi)
Maximum antenna gain:	1.513561248	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.013488	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01349 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412MHz.

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802.11g Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.97	0.00	16.97	0.04977	1
2437.00	16.68	0.00	16.68	0.04656	1
2462.00	15.67	0.00	15.67	0.03690	1

MPE Prediction (802.11g)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.97	(dBm)
Maximum peak output power at antenna input terminal:	49.7737085	(mW)
Duty cycle:	100	(%)
Maximum Pav :	49.7737085	(mW)
Antenna gain (typical):	1.8	(dBi)
Maximum antenna gain:	1.513561248	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.014995	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01500 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412.

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802.11n_20M (2.4G) MIMO Chain 0+Chain 1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	15.08	0.00	15.08	0.03221	1
2437.00	18.16	0.00	18.16	0.06546	1
2462.00	15.13	0.00	15.13	0.03258	1

MPE Prediction (802.11n_20M (2.4G))

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	18.16	(dBm)
Maximum peak output power at antenna input terminal:	65.46361741	(mW)
Duty cycle:	100	(%)
Maximum Pav :	65.46361741	(mW)
Antenna gain (typical):	4.8	(dBi)
Maximum antenna gain:	3.01995172	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.039351	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.03935 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11n_40M (2.4G) MIMO Chain 0+Chain 1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2422.00	13.20	0.00	13.20	0.02089	1
2437.00	13.72	0.00	13.72	0.02355	1
2452.00	12.91	0.00	12.91	0.01954	1

MPE Prediction (802.11n_40M (2.4G))

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	13.72	(dBm)
Maximum peak output power at antenna input terminal:	23.55049284	(mW)
Duty cycle:	100	(%)
Maximum Pav :	23.55049284	(mW)
Antenna gain (typical):	4.8	(dBi)
Maximum antenna gain:	3.01995172	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.014156	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01416 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11a Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	14.20	0.00	14.20	0.02630	1
5785.00	13.98	0.00	13.98	0.02500	1
5825.00	14.52	0.00	14.52	0.02831	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	14.52	(dBm)
Maximum peak output power at antenna input terminal:	28.31391996	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.31391996	(mW)
Antenna gain (typical):	4.97	(dBi)
Maximum antenna gain:	3.140508694	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017699	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01770 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_20M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	16.87	0.00	16.87	0.04864	1
5785.00	17.02	0.00	17.02	0.05035	1
5825.00	17.08	0.00	17.08	0.05105	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	17.08	(dBm)
Maximum peak output power at antenna input terminal:	51.0505	(mW)
Duty cycle:	100	(%)
Maximum Pav :	51.0505	(mW)
Antenna gain (typical):	6.82	(dBi)
Maximum antenna gain:	4.808393484	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.048860	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.04886 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_40M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5755.00	15.56	0.00	15.56	0.03597	1
5795.00	15.62	0.00	15.62	0.03648	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	15.62	(dBm)
Maximum peak output power at antenna input terminal:	36.47539469	(mW)
Duty cycle:	100	(%)
Maximum Pav :	36.47539469	(mW)
Antenna gain (typical):	6.82	(dBi)
Maximum antenna gain:	4.808393484	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5795	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.034910	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.03491 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5795.

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External Antenna

802.11b Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.51	0.00	16.51	0.04477	1
2437.00	16.35	0.00	16.35	0.04315	1
2462.00	16.36	0.00	16.36	0.04325	1

MPE Prediction (802.11b)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.51	(dBm)
Maximum peak output power at antenna input terminal:	44.77133042	(mW)
Duty cycle:	100	(%)
Maximum Pav :	44.77133042	(mW)
Antenna gain (typical):	2.98	(dBi)
Maximum antenna gain:	1.986094917	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017699	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.00177 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412MHz.

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802.11g Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.97	0.00	16.97	0.04977	1
2437.00	16.68	0.00	16.68	0.04656	1
2462.00	15.67	0.00	15.67	0.03690	1

MPE Prediction (802.11g)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.97	(dBm)
Maximum peak output power at antenna input terminal:	49.7737085	(mW)
Duty cycle:	100	(%)
Maximum Pav :	49.7737085	(mW)
Antenna gain (typical):	2.98	(dBi)
Maximum antenna gain:	1.986094917	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.019677	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01968mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412.

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802.11n_20M (2.4G) MIMO Chain 0+Chain 1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	15.08	0.00	15.08	0.03221	1
2437.00	18.16	0.00	18.16	0.06546	1
2462.00	15.13	0.00	15.13	0.03258	1

MPE Prediction (802.11n_20M (2.4G))

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	18.16	(dBm)
Maximum peak output power at antenna input terminal:	65.46361741	(mW)
Duty cycle:	100	(%)
Maximum Pav :	65.46361741	(mW)
Antenna gain (typical):	5.98	(dBi)
Maximum antenna gain:	3.962780343	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.051636	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.05164 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11n_40M (2.4G) MIMO Chain 0+Chain 1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2422.00	13.20	0.00	13.20	0.02089	1
2437.00	13.72	0.00	13.72	0.02355	1
2452.00	12.91	0.00	12.91	0.01954	1

MPE Prediction (802.11n_40M (2.4G))

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	13.72	(dBm)
Maximum peak output power at antenna input terminal:	23.55049284	(mW)
Duty cycle:	100	(%)
Maximum Pav :	23.55049284	(mW)
Antenna gain (typical):	5.98	(dBi)
Maximum antenna gain:	3.962780343	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.018576	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01858 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11a Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	14.20	0.00	14.20	0.02630	1
5785.00	13.98	0.00	13.98	0.02500	1
5825.00	14.52	0.00	14.52	0.02831	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	14.52	(dBm)
Maximum peak output power at antenna input terminal:	28.31391996	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.31391996	(mW)
Antenna gain (typical):	4.85	(dBi)
Maximum antenna gain:	3.054921113	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017217	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01722 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_20M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	16.87	0.00	16.87	0.04864	1
5785.00	17.02	0.00	17.02	0.05035	1
5825.00	17.08	0.00	17.08	0.05105	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	17.08	(dBm)
Maximum peak output power at antenna input terminal:	51.0505	(mW)
Duty cycle:	100	(%)
Maximum Pav :	51.0505	(mW)
Antenna gain (typical):	7.85	(dBi)
Maximum antenna gain:	6.095368972	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.061937	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.06194 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_40M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5755.00	15.56	0.00	15.56	0.03597	1
5795.00	15.62	0.00	15.62	0.03648	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	15.62	(dBm)
Maximum peak output power at antenna input terminal:	36.47539469	(mW)
Duty cycle:	100	(%)
Maximum Pav :	36.47539469	(mW)
Antenna gain (typical):	7.85	(dBi)
Maximum antenna gain:	6.095368972	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5795	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.044254	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.04425 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5795.

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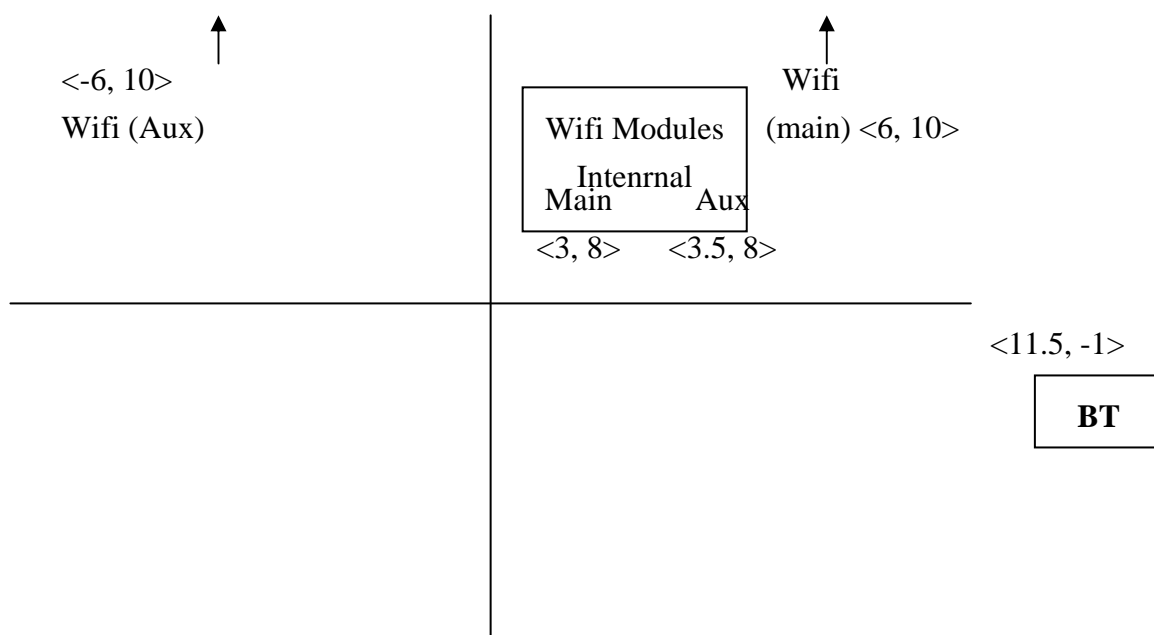
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Collocated MPE analysis:

As per KDB447498 D01, if the radio application is composed of the multiple transmitters confining in the host platform, and placing nearby, the simultaneous transmission due to impact of accumulation of individual MPE shall be evaluated if or not given application could conditionally qualify for MPE test exclusion.

Location of the transmitting antennas where they distribute:



Scenario of operation when simultaneous transmission occurs:

Scenario 1:

External Antenna:

Wifi b or g + Bluetooth

Scenario 2:

External Antenna:

Wifi n_MIMO + Bluetooth

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Scenario 3:

External Antenna:

Wifi a + Bluetooth

Scenario 4:

External Antenna:

Wifi n_5G (MIMO) + Bluetooth

Scenario 5:

Internal Antenna:

Wifi b or g + Bluetooth

Scenario 6:

Internal Antenna:

Wifi n_MIMO + Bluetooth

Scenario 7:

Internal Antenna:

Wifi a + Bluetooth

Scenario 8:

Internal Antenna:

Wifi n 5G_MIMO + Bluetooth

Exclusion of test condition:

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0 .

$$\sum MPE\ ratio1 + MPE\ ratio2 + MPE\ ratio3 \leq 1.0$$

The spreadsheet as FCC deduces, and releases is employed to conduct the measurement:

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Scenario 1:

External Antenna:
Wifi b or g + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		2412	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	1.8	0.9	0.0
Power	(W)	0.042	0.024	0.002
Antenna Gain	dBi		2.98	1.20
EIRP	(W)	0.10	0.048	0.002
X	(cm)		6.0	11.5
Y	(cm)		10.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

MPE = 1.8/100 = 0.018 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 2:

External Antenna:
Wifi n_MIMO + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2437	2402	2437
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	1.2	0.6	0.0	0.6
Power	(W)	0.031	0.015	0.002	0.014
Antenna Gain	dBi		2.98	1.20	2.98
EIRP	(W)	0.06	0.030	0.002	0.028
X	(cm)		6.0	11.5	-6.0
Y	(cm)		10.0	-1.0	10.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

MPE = 1.2/100 = 0.012 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 3:

External Antenna:
Wifi a + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		5260	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	1.1	1.1	0.0
Power	(W)	0.020	0.018	0.002
Antenna Gain	dBi		4.85	1.20
EIRP	(W)	0.06	0.055	0.002
X	(cm)		6.0	11.5
Y	(cm)		10.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

MPE = 1.1/100 = 0.011 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 4:

External Antenna:
Wifi n_MIMO 5G + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5260	2402	5260
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	1.9	1.1	0.0	1.0
Power	(W)	0.036	0.018	0.002	0.016
Antenna Gain	dBi		4.85	1.20	4.85
EIRP	(W)	0.11	0.055	0.002	0.049
X	(cm)		6.0	11.5	-6.0
Y	(cm)		10.0	-1.0	10.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

MPE = 1.9/100 = 0.019 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 5:

Internal Antenna:

Wifi b or g + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		2412	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	0.7	0.7	0.0
Power	(W)	0.026	0.024	0.002
Antenna Gain	dBi		1.80	1.20
EIRP	(W)	0.04	0.036	0.002
X	(cm)		6.0	11.5
Y	(cm)		10.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

$MPE = 0.7/100 = 0.007 < 1.0$, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 6:

Internal Antenna:

Wifi n_MIMO + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2412	2402	2412
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	2.7	1.0	0.0	1.9
Power	(W)	0.067	0.033	0.002	0.032
Antenna Gain	dBi		1.80	1.20	4.85
EIRP	(W)	0.15	0.050	0.002	0.098
X	(cm)		6.0	11.5	-6.0
Y	(cm)		10.0	-1.0	10.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

$MPE = 2.7/100 = 0.027 < 1.0$, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 7:

Internal Antenna:
Wifi a + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		5260	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	0.6	0.5	0.0
Power	(W)	0.020	0.018	0.002
Antenna Gain	dBi		1.80	1.20
EIRP	(W)	0.03	0.027	0.002
X	(cm)		6.0	11.5
Y	(cm)		10.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

$MPE = 0.6 / 100 = 0.006 < 1.0$, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 8:

Internal Antenna:
Wifi n_5G_MIMO + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5260	2402	5260
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	2.0	1.1	0.0	1.0
Power	(W)	0.036	0.018	0.002	0.016
Antenna Gain	dBi		4.97	1.20	4.97
EIRP	(W)	0.11	0.057	0.002	0.050
X	(cm)		6.0	11.5	-6.0
Y	(cm)		10.0	-1.0	10.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

$MPE = 2 / 100 = 0.02 < 1.0$, and therefore maximum MPE generated from individual transmitter can be excluded.

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