

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/23

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A

Mode : FM Reception Digital (87.75 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	87.530	31.26	7.75	8.02	31.82	0.39	15.60	40.00	24.4	Hori.	212	172	BC	
2	87.970	31.19	7.83	8.03	31.82	0.38	15.61	40.00	24.3	Hori.	230	311	BC	
3	175.060	30.06	15.83	8.95	31.78	0.00	23.06	43.50	20.4	Hori.	220	358	BC	
4	175.940	30.11	15.93	8.95	31.78	-0.01	23.20	43.50	20.3	Hori.	221	359	BC	
5	351.880	38.25	15.07	6.89	31.81	0.00	28.40	46.00	17.6	Hori.	100	161	LP	
6	612.710	23.28	19.45	8.30	32.10	0.00	18.93	46.00	27.0	Hori.	100	98	LP	
7	615.790	22.93	19.49	8.32	32.11	0.00	18.63	46.00	27.3	Hori.	100	17	LP	
8	87.530	38.00	7.75	8.02	31.82	0.39	22.34	40.00	17.6	Vert.	100	28	BC	
9	87.970	39.05	7.83	8.03	31.82	0.38	23.47	40.00	16.5	Vert.	100	198	BC	
10	175.060	28.84	15.83	8.95	31.78	0.00	21.84	43.50	21.6	Vert.	100	58	BC	
11	175.940	28.89	15.93	8.95	31.78	-0.01	21.98	43.50	21.5	Vert.	100	252	BC	
12	351.880	34.26	15.07	6.89	31.81	0.00	24.41	46.00	21.5	Vert.	100	67	LP	
13	612.710	23.73	19.45	8.30	32.10	0.00	19.38	46.00	26.6	Vert.	100	28	LP	
14	615.790	23.07	19.49	8.32	32.11	0.00	18.77	46.00	27.2	Vert.	100	183	LP	

Calculation: Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+S.Fac(ΔAF)[dB]
 Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna **SH*: Horn Antenna

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UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/23

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A

Mode : FM Reception Digital (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

<< QP DATA >>

No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]					[dBuV/m]	[dBuV/m]	[dB]					
1	97.480	26.00	9.74	8.16	31.82	0.14	12.22	43.50	31.2	Hori.	222	311	BC	
2	97.920	25.84	9.82	8.16	31.82	0.12	12.12	43.50	31.3	Hori.	208	155	BC	
3	194.960	31.27	16.54	9.13	31.78	-0.14	25.02	43.50	18.4	Hori.	166	158	BC	
4	195.840	30.09	16.53	9.14	31.78	-0.14	23.84	43.50	19.6	Hori.	167	158	BC	
5	292.440	33.67	13.53	6.50	31.78	0.00	21.92	46.00	24.0	Hori.	100	117	LP	
6	293.760	34.62	13.55	6.51	31.78	0.00	22.90	46.00	23.1	Hori.	100	107	LP	
7	389.920	41.63	15.41	7.14	31.85	0.00	32.33	46.00	13.6	Hori.	100	158	LP	
8	391.680	40.56	15.46	7.15	31.85	0.00	31.32	46.00	14.6	Hori.	100	158	LP	
9	682.360	23.79	19.61	8.67	32.16	0.00	19.91	46.00	26.0	Hori.	100	119	LP	
10	783.360	22.93	20.58	9.11	32.04	0.00	20.58	46.00	25.4	Hori.	100	6	LP	
11	97.480	26.09	9.74	8.16	31.82	0.14	12.31	43.50	31.1	Vert.	100	22	BC	
12	97.920	25.87	9.82	8.16	31.82	0.12	12.15	43.50	31.3	Vert.	100	54	BC	
13	194.960	32.92	16.54	9.13	31.78	-0.14	26.67	43.50	16.8	Vert.	100	150	BC	
14	195.840	31.79	16.53	9.14	31.78	-0.14	25.54	43.50	17.9	Vert.	100	141	BC	
15	292.440	35.17	13.53	6.50	31.78	0.00	23.42	46.00	22.5	Vert.	100	211	LP	
16	293.760	36.07	13.55	6.51	31.78	0.00	24.35	46.00	21.6	Vert.	100	150	LP	
17	389.920	37.25	15.41	7.14	31.85	0.00	27.95	46.00	18.0	Vert.	100	88	LP	
18	391.680	37.86	15.46	7.15	31.85	0.00	28.62	46.00	17.3	Vert.	100	82	LP	
19	682.360	30.52	19.61	8.67	32.16	0.00	26.64	46.00	19.3	Vert.	100	119	LP	
20	783.360	23.64	20.58	9.11	32.04	0.00	21.29	46.00	24.7	Vert.	100	186	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/23

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A

Mode : FM Reception Digital(107.9 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

< < QP DATA > >

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	107.680	30.08	11.54	8.27	31.81	-0.09	17.99	43.50	25.5	Hori.	283	312	BC	
2	108.120	30.13	11.60	8.27	31.81	-0.10	18.09	43.50	25.4	Hori.	294	324	BC	
3	215.360	38.82	11.15	5.93	31.77	0.00	24.13	43.50	19.3	Hori.	152	87	LP	
4	216.240	39.44	11.15	5.94	31.77	0.00	24.76	46.00	21.2	Hori.	154	131	LP	
5	430.720	31.95	16.06	7.37	31.90	0.00	23.48	46.00	22.5	Hori.	100	339	LP	
6	432.480	32.96	16.08	7.38	31.90	0.00	24.52	46.00	21.4	Hori.	100	20	LP	
7	756.840	23.73	20.22	8.99	32.05	0.00	20.89	46.00	25.1	Hori.	100	11	LP	
8	107.680	25.72	11.54	8.27	31.81	-0.09	13.63	43.50	29.8	Vert.	100	104	BC	
9	108.120	24.82	11.60	8.27	31.81	-0.10	12.78	43.50	30.7	Vert.	100	57	BC	
10	215.360	41.10	11.15	5.93	31.77	0.00	26.41	43.50	17.0	Vert.	100	123	LP	
11	216.240	43.21	11.15	5.94	31.77	0.00	28.53	46.00	17.4	Vert.	100	110	LP	
12	430.720	26.75	16.06	7.37	31.90	0.00	18.28	46.00	27.7	Vert.	100	204	LP	
13	432.480	27.39	16.08	7.38	31.90	0.00	18.95	46.00	27.0	Vert.	270	305	LP	
14	756.840	25.58	20.22	8.99	32.05	0.00	22.74	46.00	23.2	Vert.	100	66	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant. Type = BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

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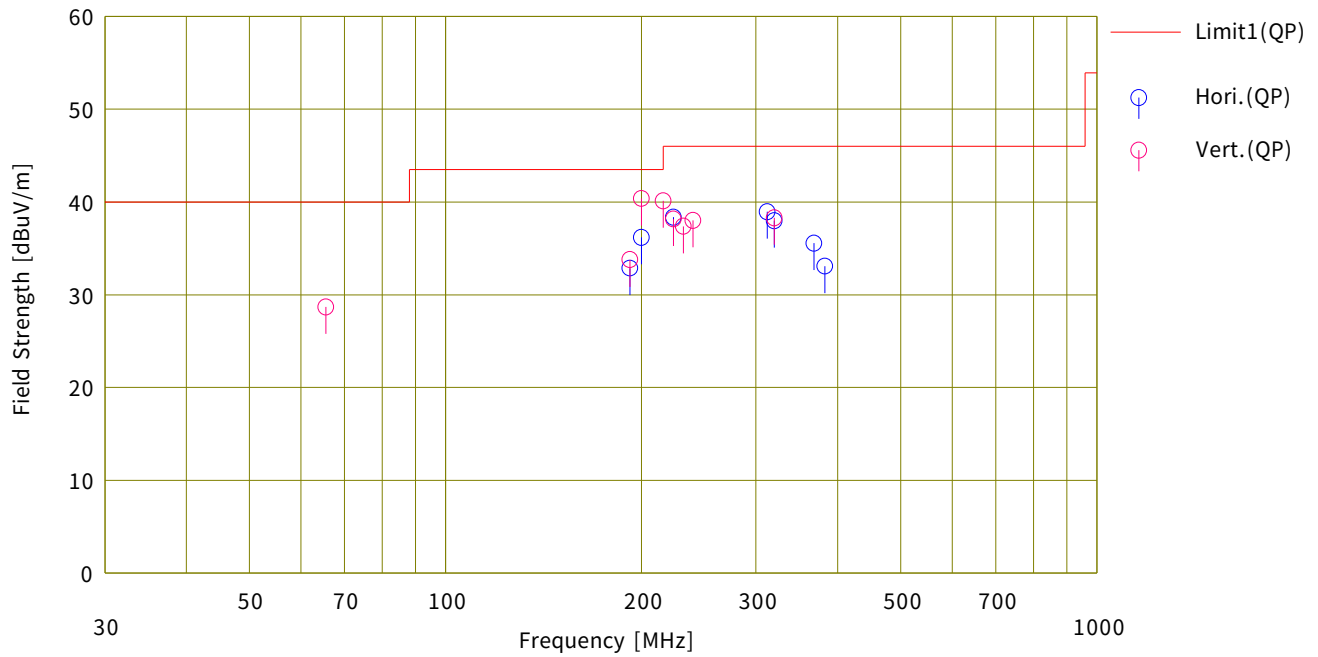
Date : 2021/01/23

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Other, Port A

Mode : FM Reception Digital (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 33 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Shunsaku Yumi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]					<QP> [dBuV/m]	<QP> [dBuV/m]	<QP> [dB]					
1	192.000	39.30	16.38	9.10	31.78	-0.13	32.87	43.50	10.6	Hori.	166	280	BC	
2	200.001	50.70	11.43	5.81	31.78	0.00	36.16	43.50	7.3	Hori.	174	296	LP	
3	224.001	52.90	11.22	6.00	31.77	0.00	38.35	46.00	7.6	Hori.	151	358	LP	
4	312.000	50.20	13.89	6.64	31.79	0.00	38.94	46.00	7.0	Hori.	138	154	LP	
5	320.002	48.90	14.17	6.69	31.79	0.00	37.97	46.00	8.0	Hori.	100	161	LP	
6	368.000	45.30	15.06	7.00	31.82	0.00	35.54	46.00	10.4	Hori.	100	186	LP	
7	382.270	42.60	15.22	7.09	31.84	0.00	33.07	46.00	12.9	Hori.	100	149	LP	
8	65.556	46.10	7.13	7.72	31.83	-0.46	28.66	40.00	11.3	Vert.	100	276	BC	
9	192.003	40.20	16.38	9.10	31.78	-0.13	33.77	43.50	9.7	Vert.	100	125	BC	
10	200.002	54.90	11.43	5.81	31.78	0.00	40.36	43.50	3.1	Vert.	174	296	LP	
11	216.000	54.80	11.15	5.93	31.77	0.00	40.11	43.50	3.3	Vert.	100	129	LP	
12	224.000	52.70	11.22	6.00	31.77	0.00	38.15	46.00	7.8	Vert.	100	152	LP	
13	231.999	51.70	11.38	6.06	31.77	0.00	37.37	46.00	8.6	Vert.	100	148	LP	
14	240.002	52.10	11.55	6.12	31.77	0.00	38.00	46.00	8.0	Vert.	100	137	LP	
15	320.000	49.20	14.17	6.69	31.79	0.00	38.27	46.00	7.7	Vert.	100	77	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant. Type = BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

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UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

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 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A

Mode : FM Reception Analog (87.75 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

<< QP DATA >>

No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]					[dBuV/m]	[dBuV/m]	[dB]					
1	87.530	28.75	7.75	8.02	31.82	0.39	13.09	40.00	26.9	Hori.	327	111	BC	
2	87.970	27.47	7.83	8.03	31.82	0.38	11.89	40.00	28.1	Hori.	316	97	BC	
3	175.060	29.28	15.83	8.95	31.78	0.00	22.28	43.50	21.2	Hori.	261	356	BC	
4	175.940	29.52	15.93	8.95	31.78	-0.01	22.61	43.50	20.8	Hori.	257	1	BC	
5	262.590	32.17	12.38	6.29	31.77	0.00	19.07	46.00	26.9	Hori.	145	247	LP	
6	439.850	36.34	16.20	7.42	31.91	0.00	28.05	46.00	17.9	Hori.	114	103	LP	
7	612.710	22.89	19.45	8.30	32.10	0.00	18.54	46.00	27.4	Hori.	100	116	LP	
8	87.530	34.23	7.75	8.02	31.82	0.39	18.57	40.00	21.4	Vert.	100	218	BC	
9	87.970	32.45	7.83	8.03	31.82	0.38	16.87	40.00	23.1	Vert.	100	198	BC	
10	175.060	25.29	15.83	8.95	31.78	0.00	18.29	43.50	25.2	Vert.	100	355	BC	
11	175.940	27.18	15.93	8.95	31.78	-0.01	20.27	43.50	23.2	Vert.	100	5	BC	
12	262.590	31.54	12.38	6.29	31.77	0.00	18.44	46.00	27.5	Vert.	100	54	LP	
13	439.850	30.02	16.20	7.42	31.91	0.00	21.73	46.00	24.2	Vert.	100	153	LP	
14	612.710	22.88	19.45	8.30	32.10	0.00	18.53	46.00	27.4	Vert.	100	86	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

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Company : DENSO Corporation
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 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
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 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	97.480	24.89	9.74	8.16	31.82	0.14	11.11	43.50	32.3	Hori.	191	289	BC	
2	97.920	25.16	9.82	8.16	31.82	0.12	11.44	43.50	32.0	Hori.	190	301	BC	
3	194.960	28.52	16.54	9.13	31.78	-0.14	22.27	43.50	21.2	Hori.	172	163	BC	
4	195.840	28.78	16.53	9.14	31.78	-0.14	22.53	43.50	20.9	Hori.	171	315	BC	
5	292.440	36.73	13.53	6.50	31.78	0.00	24.98	46.00	21.0	Hori.	105	113	LP	
6	389.920	39.24	15.41	7.14	31.85	0.00	29.94	46.00	16.0	Hori.	100	156	LP	
7	685.440	23.02	19.63	8.69	32.16	0.00	19.18	46.00	26.8	Hori.	100	225	LP	
8	97.480	24.65	9.74	8.16	31.82	0.14	10.87	43.50	32.6	Vert.	100	211	BC	
9	97.920	24.72	9.82	8.16	31.82	0.12	11.00	43.50	32.5	Vert.	100	303	BC	
10	194.960	27.78	16.54	9.13	31.78	-0.14	21.53	43.50	21.9	Vert.	100	9	BC	
11	195.840	27.27	16.53	9.14	31.78	-0.14	21.02	43.50	22.4	Vert.	100	298	BC	
12	292.440	34.25	13.53	6.50	31.78	0.00	22.50	46.00	23.5	Vert.	100	128	LP	
13	389.920	37.00	15.41	7.14	31.85	0.00	27.70	46.00	18.3	Vert.	100	280	LP	
14	685.440	23.66	19.63	8.69	32.16	0.00	19.82	46.00	26.1	Vert.	100	321	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
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 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A

Mode : FM Reception Analog (107.9 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	107.680	27.49	11.54	8.27	31.81	-0.09	15.40	43.50	28.1	Hori.	284	127	BC	
2	108.120	27.00	11.60	8.27	31.81	-0.10	14.96	43.50	28.5	Hori.	206	309	BC	
3	215.360	36.37	11.15	5.93	31.77	0.00	21.68	43.50	21.8	Hori.	154	95	LP	
4	216.240	37.43	11.15	5.94	31.77	0.00	22.75	46.00	23.2	Hori.	154	247	LP	
5	432.480	33.56	16.08	7.38	31.90	0.00	25.12	46.00	20.8	Hori.	122	96	LP	
6	646.080	22.71	19.22	8.47	32.15	0.00	18.25	46.00	27.7	Hori.	122	253	LP	
7	648.720	22.38	19.20	8.48	32.16	0.00	17.90	46.00	28.1	Hori.	100	63	LP	
8	107.680	25.70	11.54	8.27	31.81	-0.09	13.61	43.50	29.8	Vert.	100	209	BC	
9	108.120	25.54	11.60	8.27	31.81	-0.10	13.50	43.50	30.0	Vert.	100	253	BC	
10	215.360	40.52	11.15	5.93	31.77	0.00	25.83	43.50	17.6	Vert.	100	112	LP	
11	216.240	42.77	11.15	5.94	31.77	0.00	28.09	46.00	17.9	Vert.	100	107	LP	
12	432.480	27.75	16.08	7.38	31.90	0.00	19.31	46.00	26.6	Vert.	100	292	LP	
13	646.080	23.63	19.22	8.47	32.15	0.00	19.17	46.00	26.8	Vert.	100	246	LP	
14	648.720	24.09	19.20	8.48	32.16	0.00	19.61	46.00	26.3	Vert.	100	31	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

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UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

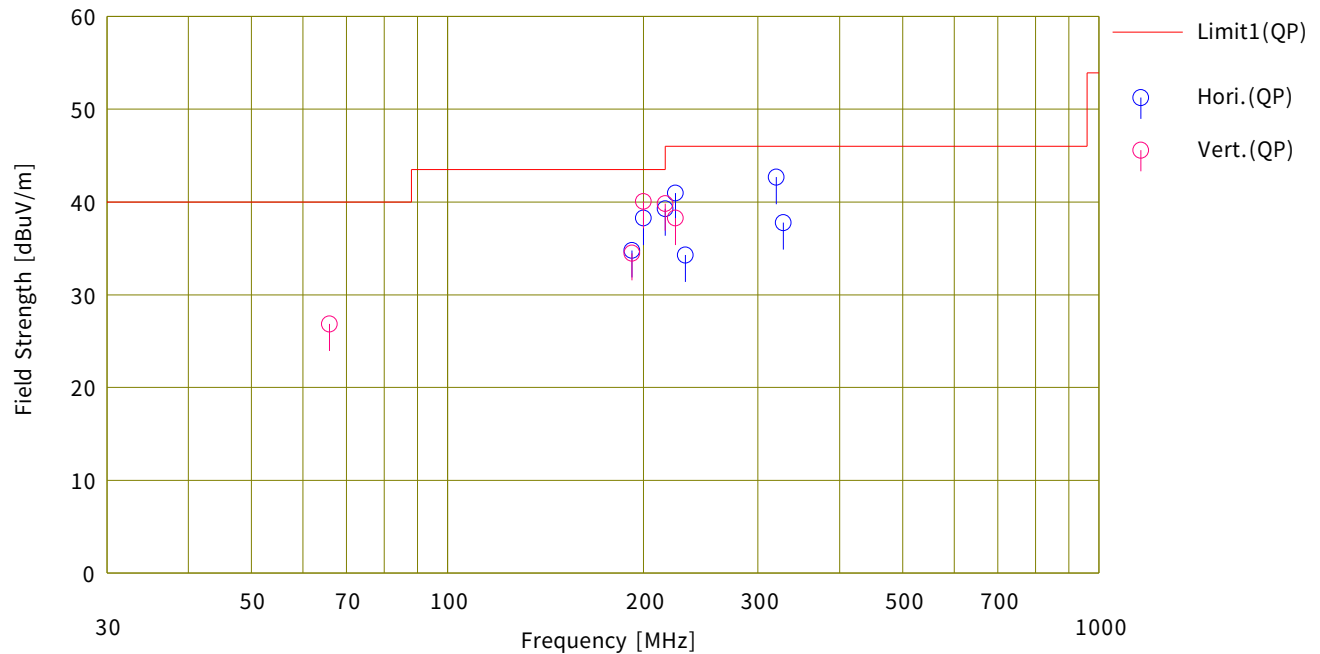
Date : 2021/01/23

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Other, Port A

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 33 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Shunsaku Yumi



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]					[dBuV/m]	[dBuV/m]	[dB]					
1	192.001	41.20	16.38	9.10	31.78	-0.13	34.77	43.50	8.7	Hori.	171	218	BC	
2	200.002	52.80	11.43	5.81	31.78	0.00	38.26	43.50	5.2	Hori.	161	105	LP	
3	216.000	53.95	11.15	5.93	31.77	0.00	39.26	43.50	4.2	Hori.	221	345	LP	
4	224.001	55.50	11.22	6.00	31.77	0.00	40.95	46.00	5.0	Hori.	211	354	LP	
5	232.000	48.60	11.38	6.06	31.77	0.00	34.27	46.00	11.7	Hori.	143	128	LP	
6	320.001	53.60	14.17	6.69	31.79	0.00	42.67	46.00	3.3	Hori.	100	29	LP	
7	327.999	48.40	14.43	6.74	31.80	0.00	37.77	46.00	8.2	Hori.	139	153	LP	
8	65.944	44.30	7.07	7.73	31.83	-0.44	26.83	40.00	13.1	Vert.	100	282	BC	
9	192.000	40.90	16.38	9.10	31.78	-0.13	34.47	43.50	9.0	Vert.	100	145	BC	
10	200.000	54.60	11.43	5.81	31.78	0.00	40.06	43.50	3.4	Vert.	100	322	LP	
11	215.999	54.50	11.15	5.93	31.77	0.00	39.81	43.50	3.6	Vert.	100	348	LP	
12	224.000	52.80	11.22	6.00	31.77	0.00	38.25	46.00	7.7	Vert.	100	342	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type = BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

Date : 2021/01/27

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port B

Mode : FM Reception Analog (87.75 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 40 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma

<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	87.530	26.90	7.79	7.78	31.87	0.39	10.99	40.00	29.0	Hori.	298	91	BC	
2	87.970	27.10	7.87	7.79	31.87	0.38	11.27	40.00	28.7	Hori.	289	79	BC	
3	175.060	29.20	15.78	8.74	31.78	0.00	21.94	43.50	21.5	Hori.	166	212	BC	
4	175.940	29.40	15.88	8.74	31.78	-0.01	22.23	43.50	21.2	Hori.	150	247	BC	
5	262.590	32.30	12.33	6.13	31.69	0.00	19.07	46.00	26.9	Hori.	171	135	LP	
6	439.850	34.20	16.22	7.30	31.63	0.00	26.09	46.00	19.9	Hori.	105	171	LP	
7	612.710	23.60	19.37	8.16	31.60	0.00	19.53	46.00	26.4	Hori.	100	90	LP	
8	87.530	33.40	7.79	7.78	31.87	0.39	17.49	40.00	22.5	Vert.	100	182	BC	
9	87.970	32.80	7.87	7.79	31.87	0.38	16.97	40.00	23.0	Vert.	100	180	BC	
10	175.060	27.10	15.78	8.74	31.78	0.00	19.84	43.50	23.6	Vert.	100	12	BC	
11	175.940	27.20	15.88	8.74	31.78	-0.01	20.03	43.50	23.4	Vert.	100	346	BC	
12	262.590	30.10	12.33	6.13	31.69	0.00	16.87	46.00	29.1	Vert.	100	154	LP	
13	439.850	29.00	16.22	7.30	31.63	0.00	20.89	46.00	25.1	Vert.	100	181	LP	
14	612.710	22.30	19.37	8.16	31.60	0.00	18.23	46.00	27.7	Vert.	100	18	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

Date : 2021/01/27

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port B

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 40 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma

<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	97.480	26.00	9.77	7.92	31.86	0.14	11.97	43.50	31.5	Hori.	167	251	BC	
2	97.920	26.90	9.85	7.92	31.86	0.12	12.93	43.50	30.5	Hori.	168	243	BC	
3	194.960	29.20	16.50	8.92	31.76	-0.14	22.72	43.50	20.7	Hori.	138	104	BC	
4	195.840	27.50	16.49	8.93	31.76	-0.14	21.02	43.50	22.4	Hori.	149	166	BC	
5	292.440	38.10	13.50	6.34	31.67	0.00	26.27	46.00	19.7	Hori.	100	119	LP	
6	389.920	39.30	15.41	6.95	31.63	0.00	30.03	46.00	15.9	Hori.	100	184	LP	
7	685.440	22.60	19.62	8.50	31.58	0.00	19.14	46.00	26.8	Hori.	100	359	LP	
8	97.480	26.00	9.77	7.92	31.86	0.14	11.97	43.50	31.5	Vert.	100	83	BC	
9	97.920	25.70	9.85	7.92	31.86	0.12	11.73	43.50	31.7	Vert.	100	83	BC	
10	194.960	30.20	16.50	8.92	31.76	-0.14	23.72	43.50	19.7	Vert.	100	303	BC	
11	195.840	29.70	16.49	8.93	31.76	-0.14	23.22	43.50	20.2	Vert.	100	54	BC	
12	292.440	32.80	13.50	6.34	31.67	0.00	20.97	46.00	25.0	Vert.	100	218	LP	
13	389.920	33.90	15.41	6.95	31.63	0.00	24.63	46.00	21.3	Vert.	100	207	LP	
14	685.440	23.60	19.62	8.50	31.58	0.00	20.14	46.00	25.8	Vert.	100	136	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type = BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

Date : 2021/01/27

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port B

Mode : FM Reception Analog (107.9 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 40 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma

<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	S.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>					<QP>	<QP>	<QP>					
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	107.680	28.10	11.55	8.03	31.85	-0.09	15.74	43.50	27.7	Hori.	264	213	BC	
2	108.120	27.80	11.61	8.04	31.85	-0.10	15.50	43.50	28.0	Hori.	220	198	BC	
3	215.360	33.20	11.18	5.77	31.74	0.00	18.41	43.50	25.0	Hori.	154	242	LP	
4	216.240	36.20	11.17	5.78	31.74	0.00	21.41	46.00	24.5	Hori.	152	108	LP	
5	432.480	33.30	16.09	7.25	31.63	0.00	25.01	46.00	20.9	Hori.	100	236	LP	
6	646.080	23.50	19.20	8.32	31.62	0.00	19.40	46.00	26.6	Hori.	100	8	LP	
7	648.720	23.10	19.19	8.33	31.62	0.00	19.00	46.00	27.0	Hori.	100	35	LP	
8	107.680	26.30	11.55	8.03	31.85	-0.09	13.94	43.50	29.5	Vert.	100	111	BC	
9	108.120	26.30	11.61	8.04	31.85	-0.10	14.00	43.50	29.5	Vert.	100	204	BC	
10	215.360	35.70	11.18	5.77	31.74	0.00	20.91	43.50	22.5	Vert.	100	76	LP	
11	216.240	34.50	11.17	5.78	31.74	0.00	19.71	46.00	26.2	Vert.	100	213	LP	
12	432.480	30.10	16.09	7.25	31.63	0.00	21.81	46.00	24.1	Vert.	100	333	LP	
13	646.080	24.40	19.20	8.32	31.62	0.00	20.30	46.00	25.7	Vert.	100	41	LP	
14	648.720	24.70	19.19	8.33	31.62	0.00	20.60	46.00	25.4	Vert.	100	53	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

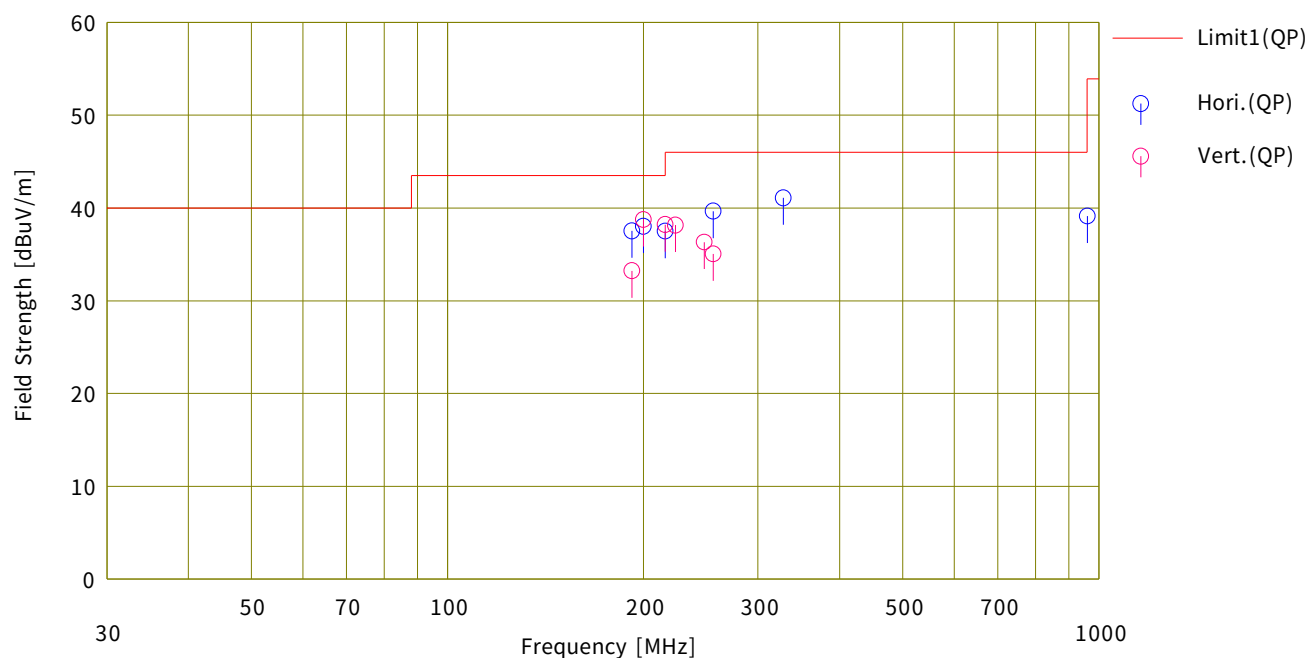
Date : 2021/01/27

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Other, Port B

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 40 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]					[dBuV/m]	[dBuV/m]	[dB]					
1	192.011	44.20	16.33	8.89	31.77	-0.13	37.52	43.50	5.9	Hori.	157	228	BC	
2	200.001	52.70	11.45	5.65	31.76	0.00	38.04	43.50	5.4	Hori.	168	203	LP	
3	216.000	52.30	11.17	5.77	31.74	0.00	37.50	43.50	6.0	Hori.	149	166	LP	
4	256.000	53.30	11.97	6.08	31.70	0.00	39.65	46.00	6.3	Hori.	169	350	LP	
5	327.999	51.70	14.44	6.58	31.65	0.00	41.07	46.00	4.9	Hori.	121	215	LP	
6	960.252	37.70	22.11	9.73	30.41	0.00	39.13	53.90	14.7	Hori.	100	174	LP	
7	192.011	39.90	16.33	8.89	31.77	-0.13	33.22	43.50	10.2	Vert.	100	91	BC	
8	200.001	53.40	11.45	5.65	31.76	0.00	38.74	43.50	4.7	Vert.	100	103	LP	
9	216.000	53.00	11.17	5.77	31.74	0.00	38.20	43.50	5.3	Vert.	100	89	LP	
10	224.002	52.80	11.23	5.84	31.73	0.00	38.14	46.00	7.8	Vert.	100	185	LP	
11	248.003	50.30	11.71	6.02	31.70	0.00	36.33	46.00	9.6	Vert.	100	313	LP	
12	256.000	48.70	11.97	6.08	31.70	0.00	35.05	46.00	10.9	Vert.	100	159	LP	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable + ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]
 Ant.Type = BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber
Date : 2021/01/24

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNNS127
Serial No. : CP1.5-K3-GZ1-US-Base-105
Remarks : Local, Port A, Distance=320 cm

Mode : FM Reception Digital (87.75 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1319.550	33.66	46.66	25.38	3.44	39.24	0.57	23.81	36.81	53.90	73.90	30.0	37.0	Hori.	211	211	31SH1	
2	1759.400	33.55	46.14	25.00	3.95	39.33	0.57	23.74	36.33	53.90	73.90	30.1	37.5	Hori.	100	147	31SH1	
3	2639.100	34.15	46.96	27.88	4.88	39.58	0.57	27.90	40.71	53.90	73.90	26.0	33.1	Hori.	166	184	31SH1	
4	3518.800	55.26	57.71	28.78	5.63	39.55	0.57	50.69	53.14	53.90	73.90	3.2	20.7	Hori.	112	177	31SH1	
5	1319.550	33.82	46.97	25.38	3.44	39.24	0.57	23.97	37.12	53.90	73.90	29.9	36.7	Vert.	151	3	31SH1	
6	1759.400	34.55	48.27	25.00	3.95	39.33	0.57	24.74	38.46	53.90	73.90	29.1	35.4	Vert.	234	189	31SH1	
7	2639.100	34.05	47.36	27.88	4.88	39.58	0.57	27.80	41.11	53.90	73.90	26.1	32.7	Vert.	100	147	31SH1	
8	3518.800	56.81	59.08	28.78	5.63	39.55	0.57	52.24	54.51	53.90	73.90	1.6	19.3	Vert.	177	213	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]
Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/24

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A, Distance=320 cm

Mode : FM Reception Digital (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1462.200	33.67	46.19	25.07	3.61	39.24	0.57	23.68	36.20	53.90	73.90	30.2	37.7	Hori.	100	129	31SH1	
2	1949.600	34.27	46.95	25.72	4.17	39.40	0.57	25.33	38.01	53.90	73.90	28.5	35.8	Hori.	100	141	31SH1	
3	3119.360	48.56	52.99	28.86	5.30	39.57	0.57	43.72	48.15	53.90	73.90	10.1	25.7	Hori.	210	223	31SH1	
4	3899.200	32.66	45.12	29.72	5.96	39.51	0.57	29.40	41.86	53.90	73.90	24.5	32.0	Hori.	100	201	31SH1	
5	1462.200	34.18	47.35	25.07	3.61	39.24	0.57	24.19	37.36	53.90	73.90	29.7	36.5	Vert.	192	289	31SH1	
6	1949.600	33.80	46.47	25.72	4.17	39.40	0.57	24.86	37.53	53.90	73.90	29.0	36.3	Vert.	160	223	31SH1	
7	3119.360	51.62	54.78	28.86	5.30	39.57	0.57	46.78	49.94	53.90	73.90	7.1	23.9	Vert.	194	159	31SH1	
8	3899.200	32.75	45.77	29.72	5.96	39.51	0.57	29.49	42.51	53.90	73.90	24.4	31.3	Vert.	100	211	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant. Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/24

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A, Distance=320 cm

Mode : FM Reception Digital(107.9 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1621.800	34.22	47.87	24.90	3.80	39.28	0.57	24.21	37.86	53.90	73.90	29.6	36.0	Hori.	100	199	31SH1	
2	2703.000	33.02	45.89	28.02	4.93	39.58	0.57	26.96	39.83	53.90	73.90	26.9	34.0	Hori.	167	208	31SH1	
3	3459.840	55.80	58.06	28.50	5.59	39.55	0.57	50.91	53.17	53.90	73.90	2.9	20.7	Hori.	100	200	31SH1	
4	4324.800	33.00	45.88	30.34	6.27	39.68	0.57	30.50	43.38	53.90	73.90	23.4	30.5	Hori.	100	0	31SH1	
5	1621.800	33.89	46.55	24.90	3.80	39.28	0.57	23.88	36.54	53.90	73.90	30.0	37.3	Vert.	100	190	31SH1	
6	2703.000	33.71	47.39	28.02	4.93	39.58	0.57	27.65	41.33	53.90	73.90	26.2	32.5	Vert.	142	151	31SH1	
7	3459.840	56.62	58.92	28.50	5.59	39.55	0.57	51.73	54.03	53.90	73.90	2.1	19.8	Vert.	175	162	31SH1	
8	4324.800	33.02	45.55	30.34	6.27	39.68	0.57	30.52	43.05	53.90	73.90	23.3	30.8	Vert.	100	0	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

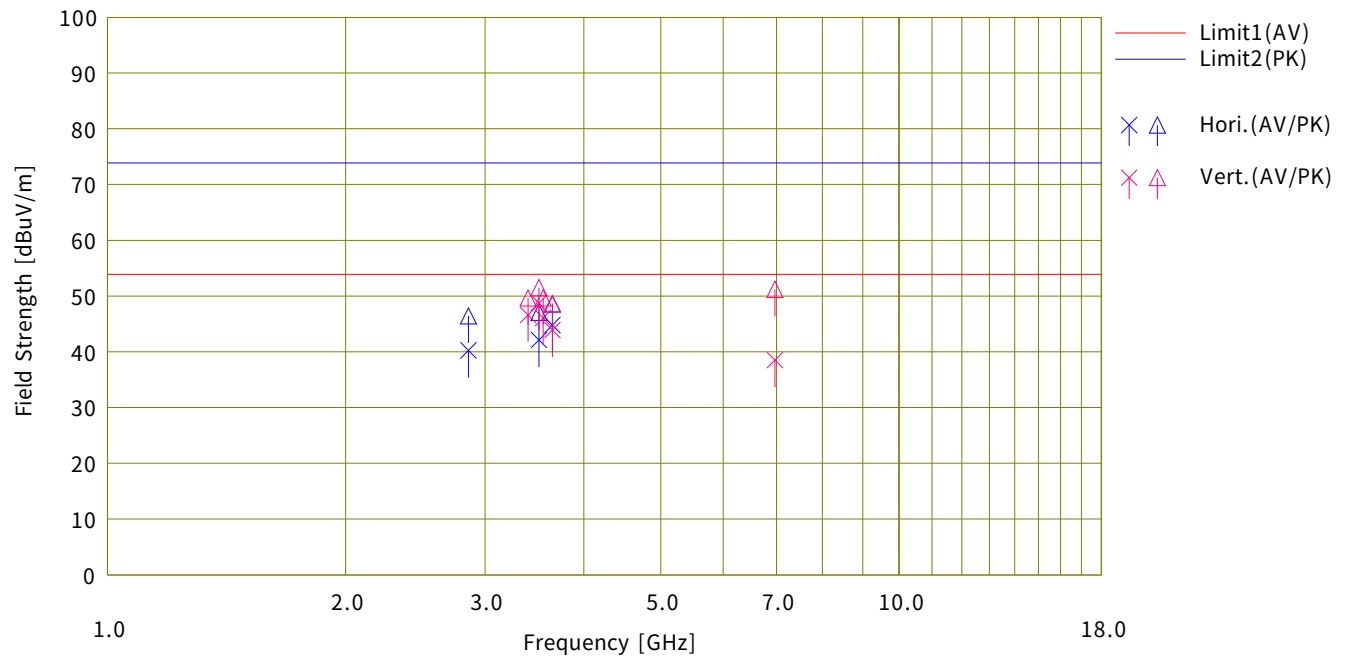
Date : 2021/01/24

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Other, Port A, Distance=320 cm

Mode : FM Reception Digital (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki



No.	Freq.	Reading		Ant.Fac	Loss	Gain	D.Fac	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2857.700	45.81	51.99	28.38	5.07	39.58	0.57	40.25	46.43	53.90	73.90	13.6	27.4	Hori.	168	336	31SH1	
2	3509.625	46.73	51.73	28.73	5.63	39.55	0.57	42.11	47.11	53.90	73.90	11.7	26.7	Hori.	158	71	31SH1	
3	3650.000	48.73	52.47	29.29	5.75	39.54	0.57	44.80	48.54	53.90	73.90	9.1	25.3	Hori.	100	145	31SH1	
4	3401.275	51.72	54.77	28.31	5.53	39.55	0.57	46.58	49.63	53.90	73.90	7.3	24.2	Vert.	119	167	31SH1	
5	3509.625	53.35	56.11	28.73	5.63	39.55	0.57	48.73	51.49	53.90	73.90	5.1	22.4	Vert.	104	151	31SH1	
6	3552.865	50.44	54.04	28.93	5.67	39.54	0.57	46.07	49.67	53.90	73.90	7.8	24.2	Vert.	105	159	31SH1	
7	3650.000	47.84	52.58	29.29	5.75	39.54	0.57	43.91	48.65	53.90	73.90	9.9	25.2	Vert.	273	166	31SH1	
8	6967.785	33.46	46.20	35.80	8.09	39.44	0.57	38.48	51.22	53.90	73.90	15.4	22.6	Vert.	100	0	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/24

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A, Distance=320 cm

Mode : FM Reception Analog (87.75 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1319.550	33.78	47.51	25.38	3.44	39.24	0.57	23.93	37.66	53.90	73.90	29.9	36.2	Hori.	249	221	31SH1	
2	1759.400	34.06	46.99	25.00	3.95	39.33	0.57	24.25	37.18	53.90	73.90	29.6	36.7	Hori.	100	132	31SH1	
3	2639.100	33.17	46.26	27.88	4.88	39.58	0.57	26.92	40.01	53.90	73.90	26.9	33.8	Hori.	182	185	31SH1	
4	3518.800	55.55	57.71	28.78	5.63	39.55	0.57	50.98	53.14	53.90	73.90	2.9	20.7	Hori.	118	175	31SH1	
5	1319.550	33.92	46.99	25.38	3.44	39.24	0.57	24.07	37.14	53.90	73.90	29.8	36.7	Vert.	156	6	31SH1	
6	1759.400	35.44	48.33	25.00	3.95	39.33	0.57	25.63	38.52	53.90	73.90	28.2	35.3	Vert.	227	187	31SH1	
7	2639.100	33.42	46.86	27.88	4.88	39.58	0.57	27.17	40.61	53.90	73.90	26.7	33.2	Vert.	100	142	31SH1	
8	3518.800	56.66	58.95	28.78	5.63	39.55	0.57	52.09	54.38	53.90	73.90	1.8	19.5	Vert.	251	219	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/23

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A, Distance=320 cm

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 21 deg.C / 37 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Takahiro Suzuki

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1072.280	37.31	49.69	24.17	3.11	39.25	0.57	25.91	38.29	53.90	73.90	27.9	35.6	Hori.	144	151	31SH1	
2	1860.480	35.62	47.84	25.44	4.07	39.37	0.57	26.33	38.55	53.90	73.90	27.5	35.3	Hori.	145	139	31SH1	
3	2339.520	33.76	46.28	28.01	4.59	39.54	0.57	27.39	39.91	53.90	73.90	26.5	33.9	Hori.	140	129	31SH1	
4	3119.360	49.18	53.01	28.86	5.30	39.57	0.57	44.34	48.17	53.90	73.90	9.5	25.7	Hori.	202	132	31SH1	
5	1072.280	39.09	51.32	24.17	3.11	39.25	0.57	27.69	39.92	53.90	73.90	26.2	33.9	Vert.	161	169	31SH1	
6	1860.480	33.44	46.76	25.44	4.07	39.37	0.57	24.15	37.47	53.90	73.90	29.7	36.4	Vert.	147	171	31SH1	
7	2339.520	34.25	46.59	28.01	4.59	39.54	0.57	27.88	40.22	53.90	73.90	26.0	33.6	Vert.	135	184	31SH1	
8	3119.360	50.98	54.87	28.86	5.30	39.57	0.57	46.14	50.03	53.90	73.90	7.7	23.8	Vert.	154	160	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant. Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

Date : 2021/01/24

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port A, Distance=320 cm

Mode : FM Reception Analog (107.9 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1621.800	34.40	47.61	24.90	3.80	39.28	0.57	24.39	37.60	53.90	73.90	29.5	36.3	Hori.	100	208	31SH1	
2	2703.000	32.98	46.16	28.02	4.93	39.58	0.57	26.92	40.10	53.90	73.90	26.9	33.8	Hori.	182	219	31SH1	
3	3459.840	55.79	58.09	28.50	5.59	39.55	0.57	50.90	53.20	53.90	73.90	3.0	20.7	Hori.	100	200	31SH1	
4	4324.800	32.95	46.06	30.34	6.27	39.68	0.57	30.45	43.56	53.90	73.90	23.4	30.3	Hori.	100	0	31SH1	
5	1621.800	33.68	46.97	24.90	3.80	39.28	0.57	23.67	36.96	53.90	73.90	30.2	36.9	Vert.	100	205	31SH1	
6	2703.000	33.29	46.28	28.02	4.93	39.58	0.57	27.23	40.22	53.90	73.90	26.6	33.6	Vert.	288	168	31SH1	
7	3459.840	56.27	59.42	28.50	5.59	39.55	0.57	51.38	54.53	53.90	73.90	2.5	19.3	Vert.	126	162	31SH1	
8	4324.800	32.96	45.58	30.34	6.27	39.68	0.57	30.46	43.08	53.90	73.90	23.4	30.8	Vert.	100	0	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber

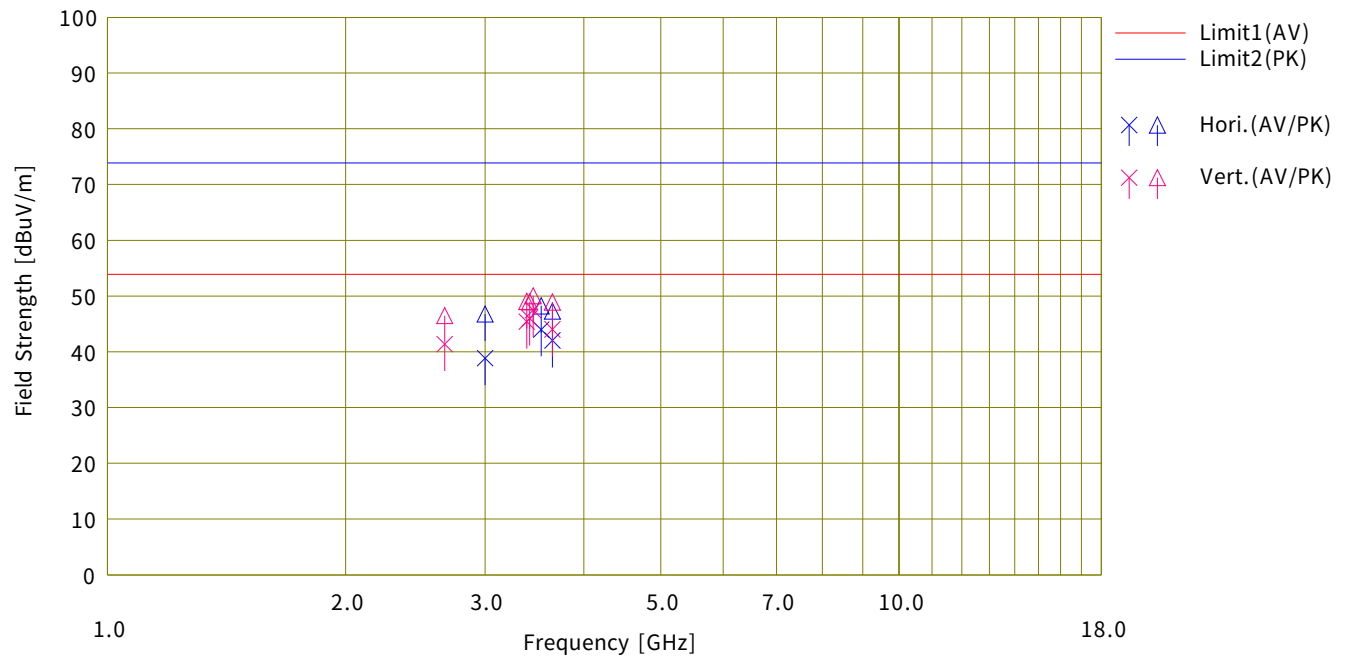
Date : 2021/01/24

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Other, Port A, Distance=320 cm

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 20 deg.C / 39 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yasumasa Owaki



No.	Freq.	Reading		Ant.Fac	Loss	Gain	D.Fac	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2999.802	44.06	51.96	28.60	5.20	39.57	0.57	38.86	46.76	53.90	73.90	15.0	27.1	Hori.	157	135	31SH1	
2	3531.575	48.51	52.73	28.84	5.64	39.55	0.57	44.01	48.23	53.90	73.90	9.8	25.6	Hori.	100	61	31SH1	
3	3650.000	45.98	51.21	29.29	5.75	39.54	0.57	42.05	47.28	53.90	73.90	11.8	26.6	Hori.	100	238	31SH1	
4	2666.683	47.54	52.66	27.94	4.90	39.58	0.57	41.37	46.49	53.90	73.90	12.5	27.4	Vert.	141	148	31SH1	
5	3387.225	50.57	54.19	28.29	5.53	39.55	0.57	45.41	49.03	53.90	73.90	8.4	24.8	Vert.	112	164	31SH1	
6	3414.050	51.09	54.06	28.33	5.54	39.55	0.57	45.98	48.95	53.90	73.90	7.9	24.9	Vert.	105	161	31SH1	
7	3452.075	52.43	55.00	28.46	5.58	39.55	0.57	47.49	50.06	53.90	73.90	6.4	23.8	Vert.	105	159	31SH1	
8	3650.000	47.96	52.85	29.29	5.75	39.54	0.57	44.03	48.92	53.90	73.90	9.8	24.9	Vert.	307	173	31SH1	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

Date : 2021/01/29

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port B, Distance=320 cm

Mode : FM Reception Analog (87.75 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 41 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2275.780	33.87	46.65	28.76	4.07	38.75	0.57	28.52	41.30	53.90	73.90	25.3	32.6	Hori.	159	225	31SH2	
2	3342.860	34.52	45.65	28.77	4.97	38.25	0.57	30.58	41.71	53.90	73.90	23.3	32.1	Hori.	124	254	31SH2	
3	3518.800	54.18	55.73	29.33	5.11	38.17	0.57	51.02	52.57	53.90	73.90	2.8	21.3	Hori.	103	165	31SH2	
4	3606.770	34.08	43.67	29.70	5.17	38.16	0.57	31.36	40.95	53.90	73.90	22.5	32.9	Hori.	158	201	31SH2	
5	2275.780	34.43	46.24	28.76	4.07	38.75	0.57	29.08	40.89	53.90	73.90	24.8	33.0	Vert.	148	225	31SH2	
6	3342.860	33.45	45.20	28.77	4.97	38.25	0.57	29.51	41.26	53.90	73.90	24.3	32.6	Vert.	190	12	31SH2	
7	3518.800	55.05	55.57	29.33	5.11	38.17	0.57	51.89	52.41	53.90	73.90	2.0	21.4	Vert.	102	281	31SH2	
8	3606.770	35.80	46.53	29.70	5.17	38.16	0.57	33.08	43.81	53.90	73.90	20.8	30.0	Vert.	100	189	31SH2	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant. Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

Date : 2021/01/28

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port B, Distance=320 cm

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 41 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	1754.640	36.07	41.01	25.63	3.56	38.97	0.57	26.86	31.80	53.90	73.90	27.0	42.1	Hori.	128	24	31SH2	
2	3119.360	42.21	49.63	29.37	4.79	38.37	0.57	38.57	45.99	53.90	73.90	15.3	27.9	Hori.	157	121	31SH2	
3	3411.800	45.02	49.87	28.81	5.03	38.22	0.57	41.21	46.06	53.90	73.90	12.6	27.8	Hori.	109	156	31SH2	
4	3509.280	45.20	48.63	29.28	5.11	38.17	0.57	41.99	45.42	53.90	73.90	11.9	28.4	Hori.	108	281	31SH2	
5	1754.640	38.82	43.04	25.63	3.56	38.97	0.57	29.61	33.83	53.90	73.90	24.2	40.0	Vert.	277	273	31SH2	
6	3119.360	49.08	50.96	29.37	4.79	38.37	0.57	45.44	47.32	53.90	73.90	8.4	26.5	Vert.	128	156	31SH2	
7	3411.800	44.05	48.04	28.81	5.03	38.22	0.57	40.24	44.23	53.90	73.90	13.6	29.6	Vert.	108	182	31SH2	
8	3509.280	40.25	45.66	29.28	5.11	38.17	0.57	37.04	42.45	53.90	73.90	16.8	31.4	Vert.	115	191	31SH2	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

Date : 2021/01/28

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Local, Port B, Distance=320 cm

Mode : FM Reception Analog (107.9 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 41 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	D.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2270.520	35.54	45.12	28.76	4.07	38.75	0.57	30.19	39.77	53.90	73.90	23.7	34.1	Hori.	148	200	31SH2	
2	2799.680	33.58	43.40	28.67	4.53	38.50	0.57	28.85	38.67	53.90	73.90	25.0	35.2	Hori.	165	148	31SH2	
3	3351.720	38.50	44.72	28.76	4.98	38.25	0.57	34.56	40.78	53.90	73.90	19.3	33.1	Hori.	111	150	31SH2	
4	3459.840	54.95	55.80	29.00	5.08	38.19	0.57	51.41	52.26	53.90	73.90	2.4	21.6	Hori.	100	190	31SH2	
5	2270.520	32.09	43.32	28.76	4.07	38.75	0.57	26.74	37.97	53.90	73.90	27.1	35.9	Vert.	115	189	31SH2	
6	2799.680	39.95	43.82	28.67	4.53	38.50	0.57	35.22	39.09	53.90	73.90	18.6	34.8	Vert.	104	326	31SH2	
7	3351.720	32.89	45.69	28.76	4.98	38.25	0.57	28.95	41.75	53.90	73.90	24.9	32.1	Vert.	165	4	31SH2	
8	3459.840	55.00	55.35	29.00	5.08	38.19	0.57	51.46	51.81	53.90	73.90	2.4	22.0	Vert.	232	134	31SH2	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant. Type=BC: Biconical Antenna LP: Logperiodic Antenna **SH*: Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

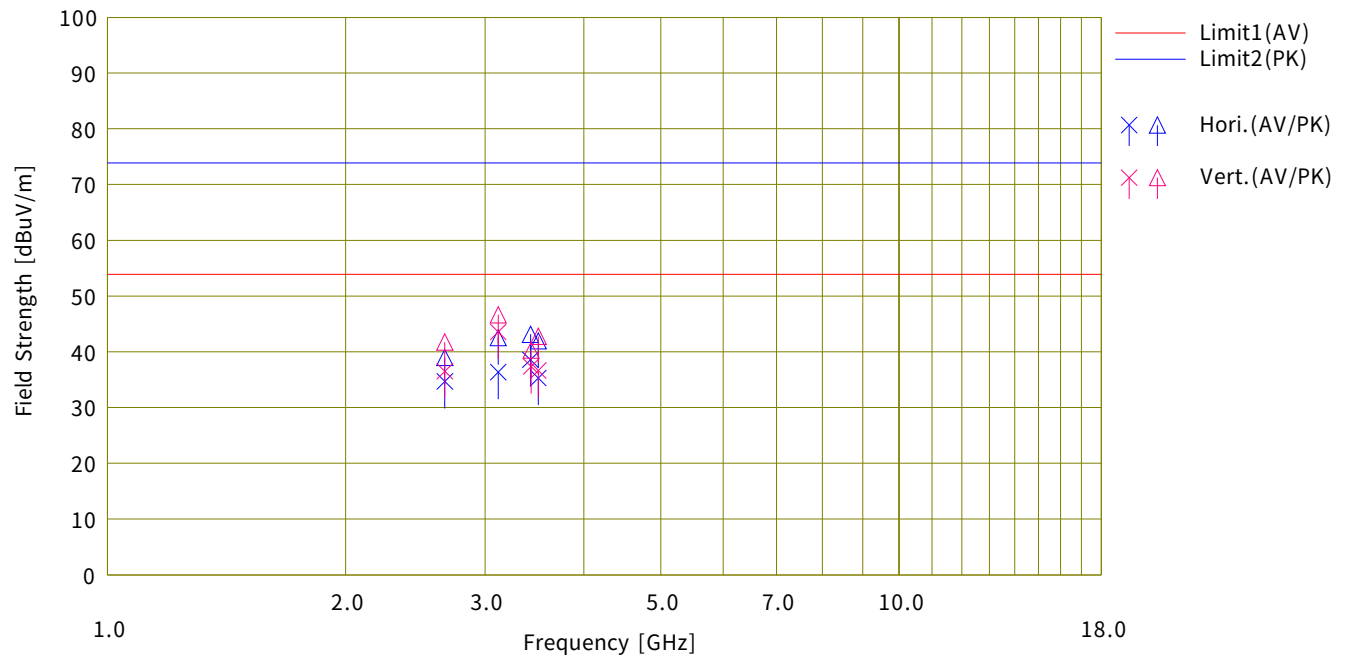
Date : 2021/01/28

Company : DENSO Corporation
 Kind of EUT : Cockpit Control Unit
 Model No. : DNNS127
 Serial No. : CP1.5-K3-GZ1-US-Base-105
 Remarks : Other, Port B, Distance=320 cm

Mode : FM Reception Analog (97.7 MHz)
 Order No. : 13682531S
 Power : DC 13.2 V
 Temp./Humi. : 23 deg.C / 41 %RH

Limit : FCC_Part 15 Subpart B(15.109)_Class B

Engineer : Yusuke Ohnuma



No.	Freq.	Reading		Ant.Fac	Loss	Gain	D.Fac	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>					<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2668.630	39.93	44.20	28.33	4.42	38.55	0.57	34.70	38.97	53.90	73.90	19.2	34.9	Hori.	113	302	31SH2	
2	3116.796	40.00	46.16	29.37	4.79	38.37	0.57	36.36	42.52	53.90	73.90	17.5	31.3	Hori.	100	340	31SH2	
3	3422.906	42.32	46.88	28.85	5.04	38.21	0.57	38.57	43.13	53.90	73.90	15.3	30.7	Hori.	100	196	31SH2	
4	3502.055	38.56	45.22	29.23	5.10	38.17	0.57	35.29	41.95	53.90	73.90	18.6	31.9	Hori.	100	2	31SH2	
5	2668.630	41.72	46.97	28.33	4.42	38.55	0.57	36.49	41.74	53.90	73.90	17.4	32.1	Vert.	100	209	31SH2	
6	3116.796	47.19	50.28	29.37	4.79	38.37	0.57	43.55	46.64	53.90	73.90	10.3	27.2	Vert.	138	154	31SH2	
7	3430.056	41.09	44.01	28.86	5.05	38.21	0.57	37.36	40.28	53.90	73.90	16.5	33.6	Vert.	104	69	31SH2	
8	3502.095	39.89	46.05	29.23	5.10	38.17	0.57	36.62	42.78	53.90	73.90	17.2	31.1	Vert.	102	205	31SH2	

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna **SH*: Horn Antenna

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Digital (87.75 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
87.75MHz	87.970	----	16.5	-13.1	----	3.4	51.7	48.3
	175.940	----	16.5	-12.8	----	3.7	51.7	48.0
	263.910	----	17.8	-12.7	----	5.1	51.7	46.6
	351.880	----	16.6	-12.5	----	4.1	51.7	47.6
	439.850	----	16.3	-12.3	----	4.0	51.7	47.7
	527.820	----	16.4	-12.2	----	4.2	51.7	47.5
	615.790	----	16.3	-11.9	----	4.4	51.7	47.3
	703.760	----	16.1	-11.8	----	4.3	51.7	47.4
	791.730	----	16.2	-11.8	----	4.4	51.7	47.3
	879.700	----	16.3	-11.8	----	4.5	51.7	47.2
	967.670	----	16.4	-11.9	----	4.5	51.7	47.2
	1055.640	34.2	----	-12.1	22.1	----	51.7	29.6
	1407.520	33.7	----	-11.9	21.8	----	51.7	29.9
	87.530	----	16.3	-13.1	----	3.2	51.7	48.5
	175.060	----	16.5	-12.8	----	3.7	51.7	48.0
	262.590	----	16.6	-12.7	----	3.9	51.7	47.8
	350.120	----	16.5	-12.5	----	4.0	51.7	47.7
	437.650	----	16.3	-12.3	----	4.0	51.7	47.7
	525.180	----	16.3	-12.2	----	4.1	51.7	47.6
	612.710	----	16.3	-11.9	----	4.4	51.7	47.3
	700.240	----	16.2	-11.8	----	4.4	51.7	47.3
	787.770	----	16.3	-11.8	----	4.5	51.7	47.2
	875.300	----	16.3	-11.8	----	4.5	51.7	47.2
	962.830	----	16.4	-11.9	----	4.5	51.7	47.2
	1050.360	34.8	----	-12.1	22.7	----	51.7	29.0
	1400.480	33.7	----	-11.9	21.8	----	51.7	29.9

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Digital (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
97.7MHz	97920	----	18.0	-13.1	----	4.9	51.7	46.8
	195840	----	16.8	-12.8	----	4.0	51.7	47.7
	293760	----	16.3	-12.6	----	3.7	51.7	48.0
	391680	----	16.5	-12.5	----	4.0	51.7	47.7
	489600	----	16.3	-12.2	----	4.1	51.7	47.6
	587520	----	16.2	-12.0	----	4.2	51.7	47.5
	685440	----	16.2	-11.8	----	4.4	51.7	47.3
	783360	----	16.3	-11.8	----	4.5	51.7	47.2
	881280	----	16.3	-11.8	----	4.5	51.7	47.2
	979200	----	16.4	-11.9	----	4.5	51.7	47.2
	1077.120	34.6	----	-12.0	22.6	----	51.7	29.1
	1468.800	33.7	----	-11.8	21.9	----	51.7	29.8
	97480	----	17.4	-13.1	----	4.3	51.7	47.4
	194960	----	16.8	-12.8	----	4.0	51.7	47.7
	292440	----	16.4	-12.6	----	3.8	51.7	47.9
	389920	----	16.3	-12.5	----	3.8	51.7	47.9
	487400	----	16.3	-12.3	----	4.0	51.7	47.7
	584880	----	16.1	-12.0	----	4.1	51.7	47.6
	682360	----	16.2	-11.8	----	4.4	51.7	47.3
	779840	----	16.3	-11.8	----	4.5	51.7	47.2
	877320	----	16.3	-11.8	----	4.5	51.7	47.2
	974800	----	16.3	-11.9	----	4.4	51.7	47.3
	1072280	33.8	----	-12.0	21.8	----	51.7	29.9
	1364720	33.2	----	-11.9	21.3	----	51.7	30.4

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Digital (107.9 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
107.9MHz	108.120	----	16.4	-13.0	----	3.4	51.7	48.3
	216.240	----	16.8	-12.8	----	4.0	51.7	47.7
	324.360	----	17.2	-12.6	----	4.6	51.7	47.1
	432.480	----	16.3	-12.3	----	4.0	51.7	47.7
	540.600	----	16.3	-12.2	----	4.1	51.7	47.6
	648.720	----	16.2	-11.9	----	4.3	51.7	47.4
	756.840	----	16.2	-11.8	----	4.4	51.7	47.3
	864.960	----	16.3	-11.8	----	4.5	51.7	47.2
	973.080	----	16.6	-11.9	----	4.7	51.7	47.0
	1081.200	34.0	----	-12.0	22.0	----	51.7	29.7
	1405.560	34.1	----	-11.9	22.2	----	51.7	29.5
	107.680	----	16.5	-13.0	----	3.5	51.7	48.2
	215.360	----	16.9	-12.8	----	4.1	51.7	47.6
	323.040	----	17.0	-12.6	----	4.4	51.7	47.3
	430.720	----	16.3	-12.4	----	3.9	51.7	47.8
	538.400	----	16.3	-12.2	----	4.1	51.7	47.6
	646.080	----	16.2	-11.9	----	4.3	51.7	47.4
	753.760	----	16.2	-11.8	----	4.4	51.7	47.3
	861.440	----	16.2	-11.8	----	4.4	51.7	47.3
	969.120	----	16.4	-11.9	----	4.5	51.7	47.2
	1076.800	33.5	----	-12.0	21.5	----	51.7	30.2
	1507.520	33.7	----	-11.8	21.9	----	51.7	29.8

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

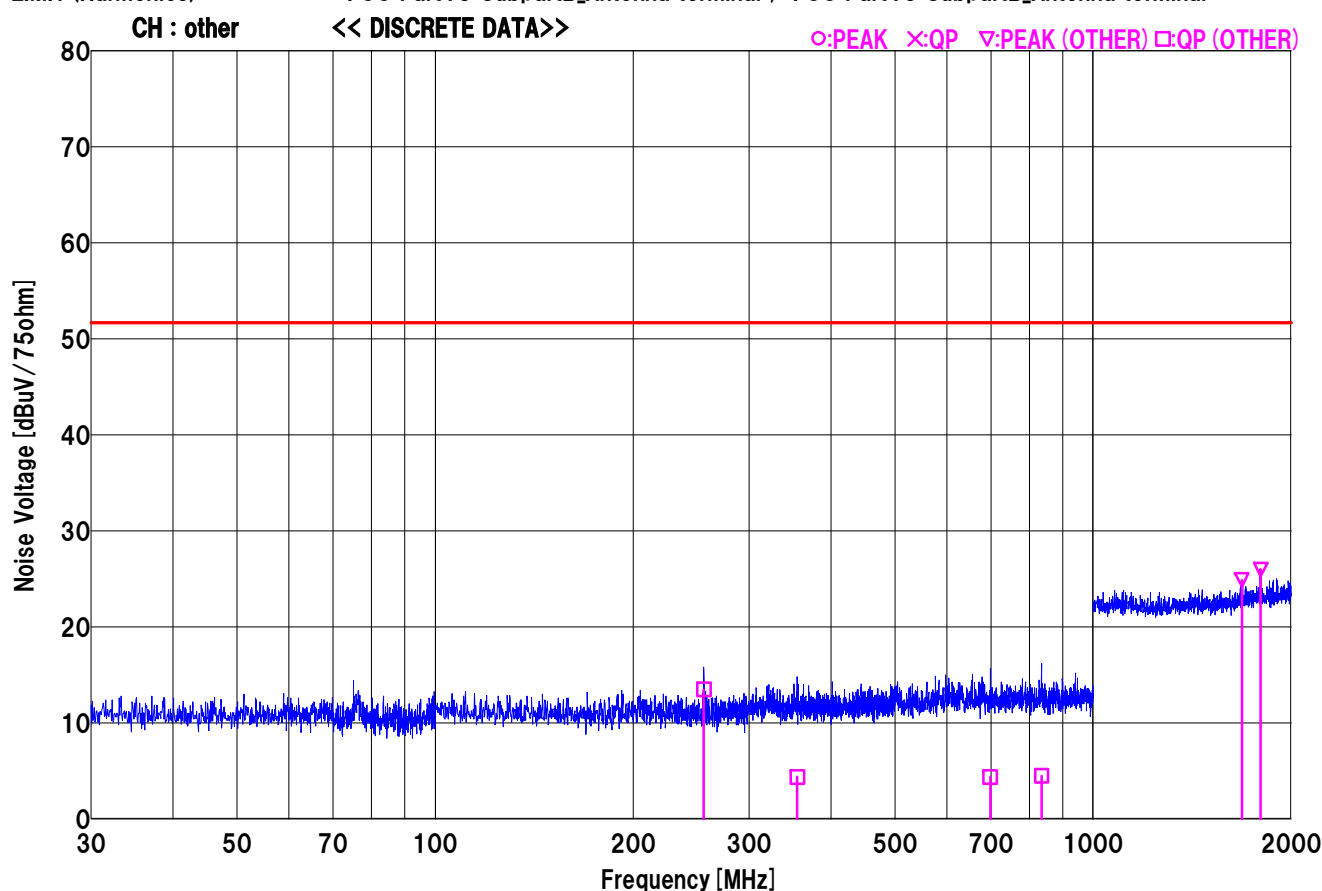
Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNNS127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Digital (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Other, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : — FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : — FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal



Calculation:Result [dBuV] =Reading [dBuV] +Fac (Cable+Matching Pad-Amp) [dB] +1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNNS127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Digital (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Other, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]		[dB]	[dBuV/75]		[dBuV/75]	[dB]
other	*255.998	----	26.3	-12.8	----	13.5	51.7	38.2
	*355.003	----	16.9	-12.5	----	4.4	51.7	47.3
	*698.000	----	16.2	-11.8	----	4.4	51.7	47.3
	*835.000	----	16.3	-11.8	----	4.5	51.7	47.2
	*1682.000	36.4	----	-11.5	24.9	----	51.7	26.8
	*1798.000	37.4	----	-11.4	26.0	----	51.7	25.7

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (87.75 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
87.75MHz	87.970	----	166	-13.1	----	3.5	51.7	48.2
	175.940	----	166	-12.8	----	3.8	51.7	47.9
	263.910	----	164	-12.7	----	3.7	51.7	48.0
	351.880	----	166	-12.5	----	4.1	51.7	47.6
	439.850	----	200	-12.3	----	7.7	51.7	44.0
	527.820	----	168	-12.2	----	4.6	51.7	47.1
	615.790	----	163	-11.9	----	4.4	51.7	47.3
	703.760	----	161	-11.8	----	4.3	51.7	47.4
	791.730	----	161	-11.8	----	4.3	51.7	47.4
	879.700	----	162	-11.8	----	4.4	51.7	47.3
	967.670	----	164	-11.9	----	4.5	51.7	47.2
	1055.640	32.7	----	-12.1	20.6	----	51.7	31.1
	1407.520	33.0	----	-11.9	21.1	----	51.7	30.6
	87.530	----	163	-13.1	----	3.2	51.7	48.5
	175.060	----	166	-12.8	----	3.8	51.7	47.9
	262.590	----	164	-12.7	----	3.7	51.7	48.0
	350.120	----	165	-12.5	----	4.0	51.7	47.7
	437.650	----	164	-12.3	----	4.1	51.7	47.6
	525.180	----	162	-12.2	----	4.0	51.7	47.7
	612.710	----	162	-11.9	----	4.3	51.7	47.4
	700.240	----	160	-11.8	----	4.2	51.7	47.5
	787.770	----	162	-11.8	----	4.4	51.7	47.3
	875.300	----	162	-11.8	----	4.4	51.7	47.3
	962.830	----	165	-11.9	----	4.6	51.7	47.1
	1050.360	32.8	----	-12.1	20.7	----	51.7	31.0
	1400.480	32.9	----	-11.9	21.0	----	51.7	30.7

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
97.7MHz	97920	----	164	-13.1	----	3.3	51.7	48.4
	195840	----	164	-12.8	----	3.6	51.7	48.1
	293760	----	163	-12.6	----	3.7	51.7	48.0
	391680	----	161	-12.5	----	3.6	51.7	48.1
	489600	----	162	-12.2	----	4.0	51.7	47.7
	587520	----	162	-12.0	----	4.2	51.7	47.5
	685440	----	162	-11.8	----	4.4	51.7	47.3
	783360	----	163	-11.8	----	4.5	51.7	47.2
	881280	----	162	-11.8	----	4.4	51.7	47.3
	979200	----	164	-11.9	----	4.5	51.7	47.2
	1077.120	324	----	-12.0	204	----	51.7	31.3
	1468.800	327	----	-11.8	209	----	51.7	30.9
	97480	----	164	-13.1	----	3.3	51.7	48.4
	194960	----	163	-12.8	----	3.5	51.7	48.2
	292440	----	164	-12.6	----	3.8	51.7	47.9
	389920	----	161	-12.5	----	3.6	51.7	48.1
	487400	----	161	-12.3	----	3.8	51.7	47.9
	584880	----	162	-12.0	----	4.2	51.7	47.5
	682360	----	163	-11.8	----	4.5	51.7	47.2
	779840	----	163	-11.8	----	4.5	51.7	47.2
	877320	----	162	-11.8	----	4.4	51.7	47.3
	974800	----	164	-11.9	----	4.5	51.7	47.2
	1072280	33.5	----	-12.0	21.5	----	51.7	30.2
	1364720	32.6	----	-11.9	20.7	----	51.7	31.0

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (107.9 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
107.9MHz	108.120	----	16.3	-13.0	----	3.3	51.7	48.4
	216.240	----	18.5	-12.8	----	5.7	51.7	46.0
	324.360	----	16.6	-12.6	----	4.0	51.7	47.7
	432.480	----	16.4	-12.3	----	4.1	51.7	47.6
	540.600	----	16.2	-12.2	----	4.0	51.7	47.7
	648.720	----	16.2	-11.9	----	4.3	51.7	47.4
	756.840	----	16.1	-11.8	----	4.3	51.7	47.4
	864.960	----	16.3	-11.8	----	4.5	51.7	47.2
	973.080	----	16.5	-11.9	----	4.6	51.7	47.1
	1081.200	32.9	----	-12.0	20.9	----	51.7	30.8
	1405.560	32.9	----	-11.9	21.0	----	51.7	30.7
	107.680	----	16.3	-13.0	----	3.3	51.7	48.4
	215.360	----	16.4	-12.8	----	3.6	51.7	48.1
	323.040	----	16.6	-12.6	----	4.0	51.7	47.7
	430.720	----	16.3	-12.4	----	3.9	51.7	47.8
	538.400	----	16.2	-12.2	----	4.0	51.7	47.7
	646.080	----	16.2	-11.9	----	4.3	51.7	47.4
	753.760	----	16.1	-11.8	----	4.3	51.7	47.4
	861.440	----	16.2	-11.8	----	4.4	51.7	47.3
	969.120	----	16.4	-11.9	----	4.5	51.7	47.2
	1076.800	33.4	----	-12.0	21.4	----	51.7	30.3
	1507.520	33.5	----	-11.8	21.7	----	51.7	30.0

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

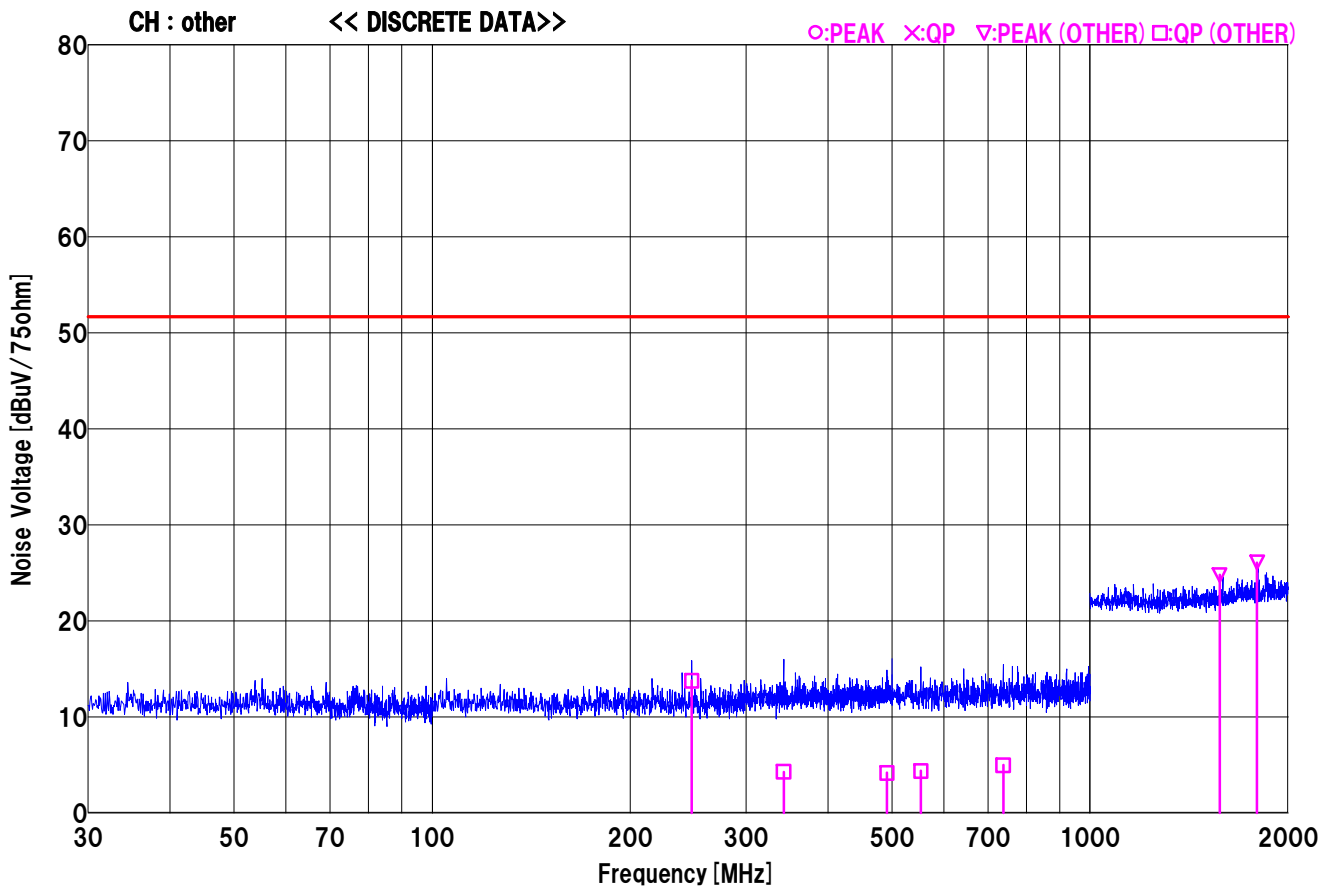
Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNNS127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Other, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : — FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : — FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal



Calculation:Result [dBuV] =Reading [dBuV] +Fac (Cable+Matching Pad-Amp) [dB] +1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNNS127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Other, Port A

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]		[dB]	[dBuV/75]		[dBuV/75]	[dB]
other	*247.998	----	26.6	-12.8	----	13.8	51.7	37.9
	*342.203	----	16.9	-12.6	----	4.3	51.7	47.4
	*738.000	----	16.8	-11.8	----	5.0	51.7	46.7
	*553.000	----	16.5	-12.1	----	4.4	51.7	47.3
	*491.012	----	16.4	-12.2	----	4.2	51.7	47.5
	*1573.000	36.5	----	-11.7	24.8	----	51.7	26.9
	*1794.000	37.5	----	-11.4	26.1	----	51.7	25.6

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (87.75 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port B

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
87.75MHz	87970	----	16.5	-13.1	----	3.4	51.7	48.3
	175940	----	16.4	-12.8	----	3.6	51.7	48.1
	263910	----	16.4	-12.7	----	3.7	51.7	48.0
	351880	----	16.4	-12.5	----	3.9	51.7	47.8
	439850	----	16.3	-12.3	----	4.0	51.7	47.7
	527820	----	17.5	-12.2	----	5.3	51.7	46.4
	615790	----	16.3	-11.9	----	4.4	51.7	47.3
	703760	----	16.2	-11.8	----	4.4	51.7	47.3
	791730	----	16.3	-11.8	----	4.5	51.7	47.2
	879700	----	16.4	-11.8	----	4.6	51.7	47.1
	967670	----	16.6	-11.9	----	4.7	51.7	47.0
	1055.640	34.5	----	-12.1	22.4	----	51.7	29.3
	1407.520	33.9	----	-11.9	22.0	----	51.7	29.7
	87530	----	16.4	-13.1	----	3.3	51.7	48.4
	175060	----	16.4	-12.8	----	3.6	51.7	48.1
	262590	----	16.5	-12.7	----	3.8	51.7	47.9
	350.120	----	16.5	-12.5	----	4.0	51.7	47.7
	437.650	----	16.3	-12.3	----	4.0	51.7	47.7
	525.180	----	16.3	-12.2	----	4.1	51.7	47.6
	612.710	----	16.3	-11.9	----	4.4	51.7	47.3
	700.240	----	16.1	-11.8	----	4.3	51.7	47.4
	787.770	----	16.3	-11.8	----	4.5	51.7	47.2
	875.300	----	16.3	-11.8	----	4.5	51.7	47.2
	962.830	----	16.6	-11.9	----	4.7	51.7	47.0
	1050.360	33.9	----	-12.1	21.8	----	51.7	29.9
	1400.480	33.6	----	-11.9	21.7	----	51.7	30.0

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port B

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
97.7MHz	97920	----	166	-13.1	----	3.5	51.7	48.2
	195840	----	16.7	-12.8	----	3.9	51.7	47.8
	293760	----	16.4	-12.6	----	3.8	51.7	47.9
	391680	----	16.3	-12.5	----	3.8	51.7	47.9
	489600	----	16.3	-12.2	----	4.1	51.7	47.6
	587520	----	16.2	-12.0	----	4.2	51.7	47.5
	685440	----	16.3	-11.8	----	4.5	51.7	47.2
	783360	----	16.4	-11.8	----	4.6	51.7	47.1
	881280	----	16.4	-11.8	----	4.6	51.7	47.1
	979200	----	16.4	-11.9	----	4.5	51.7	47.2
	1077.120	34.4	----	-12.0	224	----	51.7	29.3
	1468.800	34.0	----	-11.8	222	----	51.7	29.5
	97480	----	166	-13.1	----	3.5	51.7	48.2
	194960	----	16.6	-12.8	----	3.8	51.7	47.9
	292440	----	16.4	-12.6	----	3.8	51.7	47.9
	389920	----	16.3	-12.5	----	3.8	51.7	47.9
	487400	----	16.2	-12.3	----	3.9	51.7	47.8
	584880	----	16.2	-12.0	----	4.2	51.7	47.5
	682360	----	16.2	-11.8	----	4.4	51.7	47.3
	779840	----	16.4	-11.8	----	4.6	51.7	47.1
	877320	----	16.3	-11.8	----	4.5	51.7	47.2
	974800	----	16.4	-11.9	----	4.5	51.7	47.2
	1072280	34.2	----	-12.0	222	----	51.7	29.5
	1364720	34.5	----	-11.9	226	----	51.7	29.1

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (107.9 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Local, Port B

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]	[dB]	[dBuV/75]	[dBuV/75]	[dB]		
107.9MHz	108.120	----	16.5	-13.0	----	3.5	51.7	48.2
	216.240	----	16.9	-12.8	----	4.1	51.7	47.6
	324.360	----	16.6	-12.6	----	4.0	51.7	47.7
	432.480	----	16.3	-12.3	----	4.0	51.7	47.7
	540.600	----	16.9	-12.2	----	4.7	51.7	47.0
	648.720	----	16.3	-11.9	----	4.4	51.7	47.3
	756.840	----	16.2	-11.8	----	4.4	51.7	47.3
	864.960	----	16.3	-11.8	----	4.5	51.7	47.2
	973.080	----	16.4	-11.9	----	4.5	51.7	47.2
	1081.200	34.0	----	-12.0	22.0	----	51.7	29.7
	1405.560	33.8	----	-11.9	21.9	----	51.7	29.8
	107.680	----	16.5	-13.0	----	3.5	51.7	48.2
	215.360	----	16.7	-12.8	----	3.9	51.7	47.8
	323.040	----	16.6	-12.6	----	4.0	51.7	47.7
	430.720	----	16.2	-12.4	----	3.8	51.7	47.9
	538.400	----	16.6	-12.2	----	4.4	51.7	47.3
	646.080	----	16.2	-11.9	----	4.3	51.7	47.4
	753.760	----	16.3	-11.8	----	4.5	51.7	47.2
	861.440	----	16.2	-11.8	----	4.4	51.7	47.3
	969.120	----	16.7	-11.9	----	4.8	51.7	46.9
	1076.800	33.6	----	-12.0	21.6	----	51.7	30.1
	1507.520	34.6	----	-11.8	22.8	----	51.7	28.9

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

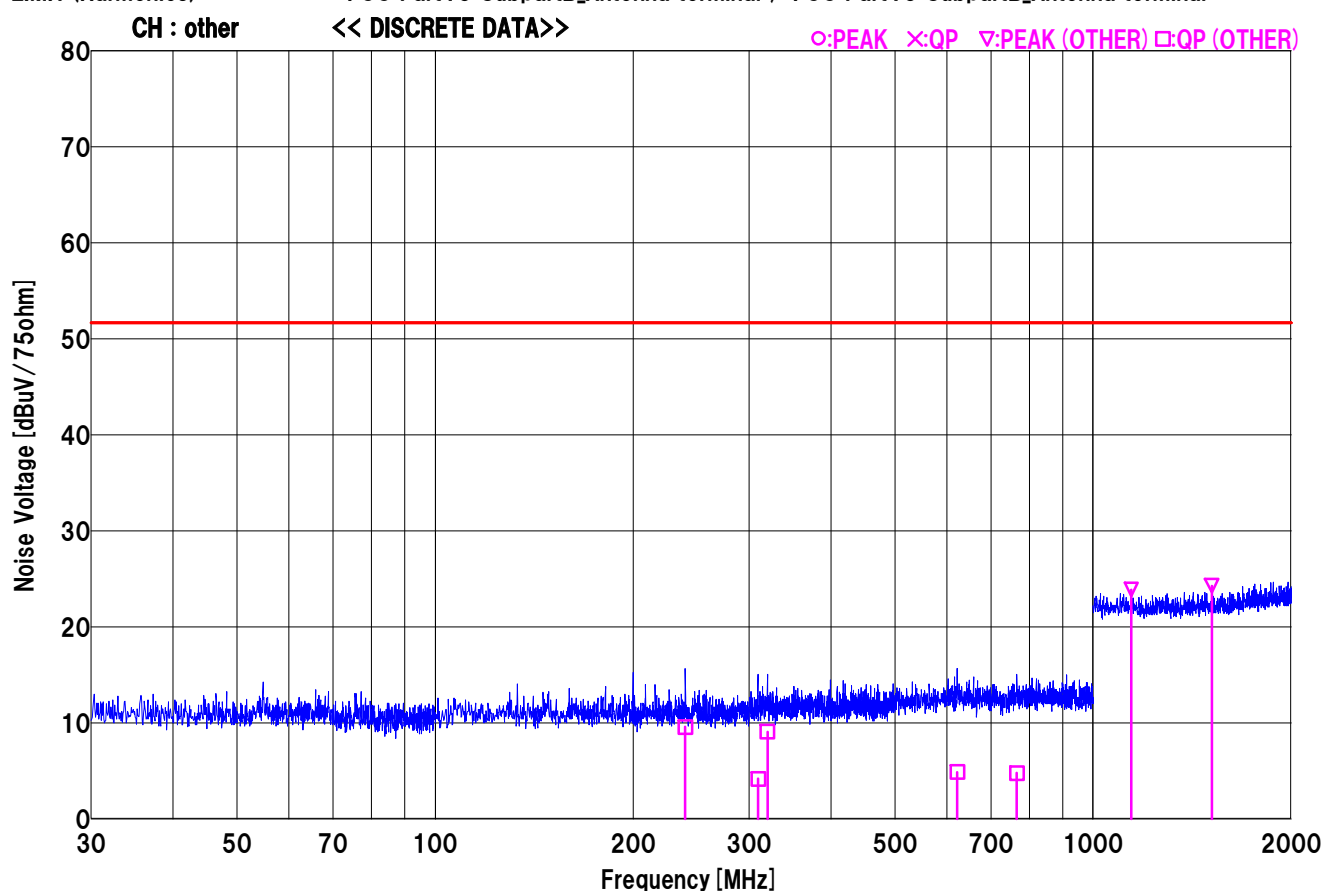
Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNNS127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Other, Port B

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : — FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : — FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal



Calculation:Result [dBuV] =Reading [dBuV] +Fac (Cable+Matching Pad-Amp) [dB] +1.76 (50 ohm to 75 ohm) [dB]

DATA OF ANTENNA TERMINAL TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room
Date : 2021/01/22

Company : DENSO Corporation
Kind of EUT : Cockpit Control Unit
Model No. : DNN5127
Serial No. : CP1.5-K3-GZ1-US-Base-105

Mode : FM Reception Analog (97.7 MHz)
Order No. : 13682531S
Power : DC 13.2 V
Temp./Humi. : 23 deg.C / 39 %RH

Remarks : Other, Port B

Engineer : Takahiro Suzuki

LIMIT (Fundamental) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal
LIMIT (Harmonics) : FCC Part15 SubpartB_Antenna terminal / FCC Part15 SubpartB_Antenna terminal

CH	Freq	Reading		Factor	Result		Limit	Margin
		PEAK	QP		PEAK	QP		
	[MHz]	[dBuV]		[dB]	[dBuV/75]		[dBuV/75]	[dB]
other	*239.998	----	22.4	-12.8	----	9.6	51.7	42.1
	*309.601	----	16.8	-12.6	----	4.2	51.7	47.5
	*320.001	----	21.7	-12.6	----	9.1	51.7	42.6
	*621.500	----	16.8	-11.9	----	4.9	51.7	46.8
	*766.000	----	16.6	-11.8	----	4.8	51.7	46.9
	*1143.000	35.9	----	-12.0	23.9	----	51.7	27.8
	*1515.000	36.1	----	-11.8	24.3	----	51.7	27.4

Calculation: Result [dBuV] = Reading [dBuV] + Fac (Cable+Matching Pad-Amp) [dB] + 1.76 (50 ohm to 75 ohm) [dB]

APPENDIX 3

Test Instruments

EMI test equipment

Test Name	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Calibration Interval (Month)
AT	COTS-SEMI-2	144866	EMI Software for AV Equipment	TSJ (Techno Science Japan)	TEPTO-DV(AT,TV)	2	-	-
AT	SAF-07	145006	Pre Amplifier	TSJ (Techno Science Japan)	MLA-8k03-D01-35	81212	2020/06/24	12
AT	SCC-AT1/AT2/KM P-09	180424	Coaxial cable, Matching pad	TAMAGAWA	5D2W/ZT-130	-/1454514E	2020/06/24	12
AT	SOS-16	167990	Humidity Indicator	CUSTOM. Inc	CTH-202	708Q08R	2020/10/01	12
AT,RE	STR-01	145790	Test Receiver	Rohde & Schwarz	ESU40	100093	2020/04/24	12
AT,RE	STS-01	145792	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997812	2020/10/19	12
RE	COTS-SEMI-5	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	-	-	-
RE	KAT6-04	144899	Attenuator	Inmet	18N-6dB	-	2020/12/10	12
RE	KJM-09	145929	Measure	KOMELON	KMC-36	-	-	-
RE	SAEC-01(NSA)	145597	Semi-Anechoic Chamber	TDK	SAEC-01(NSA)	1	2020/04/08	12
RE	SAEC-01(SVSWR)	145561	Semi-Anechoic Chamber	TDK	SAEC-01(SVSWR)	1	2020/05/04	12
RE	SAEC-02(NSA)	145563	Semi-Anechoic Chamber	TDK	SAEC-02(NSA)	2	2020/03/20	12
RE	SAF-01	145003	Pre Amplifier	SONOMA	310N	290211	2020/02/19	12
RE	SAF-02	145004	Pre Amplifier	SONOMA	310N	290212	2020/02/19	12
RE	SAF-04	145127	Pre Amplifier	Toyo Corporation	TPA0118-36	2072554	2020/06/02	12
RE	SAF-05	145128	Pre Amplifier	Toyo Corporation	TPA0118-36	1440490	2020/06/03	12
RE	SAT3-09	144959	Attenuator	JFW	50HF-003N	-	2020/08/18	12
RE	SAT3-11	150921	Attenuator	JFW	50HF-003N	-	2021/01/26	12
RE	SAT6-14	167095	Attenuator	JFW	50HF-006N	-	2020/02/21	12
RE	SBA-01	145161	Biconical Antenna	Schwarzbeck Mess - Elektronik	BBA9106	91032664	2020/04/04	12
RE	SBA-02	145022	Biconical Antenna	Schwarzbeck Mess - Elektronik	BBA9106	91032665	2020/04/04	12
RE	SCC-A1/A3/A5/A7/A8/A13/SRSE-01	144967	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/NS4906	-/0901-269(RF Selector)	2020/04/12	12
RE	SCC-A2/A4/A6/A7/A8/A13/SRSE-01	144968	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/NS4906	-/0901-269(RF Selector)	2020/04/12	12
RE	SCC-B1/B3/B5/B7/B8/B13/SRSE-02	144975	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	2020/04/17	12
RE	SCC-B2/B4/B6/B7/B8/B13/SRSE-02	144976	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	2020/04/17	12
RE	SCC-G05	145039	Coaxial Cable	Junkosha	J12J102207-00	APR-30-15-037	2020/01/31	12
RE	SCC-G41	151617	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S006	2021/01/19	12
RE	SCC-G50	178573	Coaxial Cable	HUBER+SUNER	SUCOFLEX_104_E	MY13407/4E	2020/03/09	12
RE	SCC-G51	178572	Coaxial Cable	HUBER+SUNER	SUCOFLEX 104	800288 /4A	2020/03/09	12
RE	SCC-G62	196985	Coaxial Cable	HUBER+SUNER	SUCOFLEX 102	803650/2	2020/03/10	12
RE	SHA-01	145383	Horn Antenna	Schwarzbeck Mess - Elektronik	BBHA9120D	9120D-725	2020/05/27	12
RE	SHA-02	145384	Horn Antenna	Schwarzbeck Mess - Elektronik	BBHA9120D	9120D-726	2020/06/15	12
RE	SJM-09	145336	Measure	PROMART	SEN1935	-	-	-
RE	SLA-05	145527	Logperiodic Antenna	Schwarzbeck Mess - Elektronik	VUSLP9111B	193	2020/04/04	12

EMI test equipment

Test Name	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Calibration Interval (Month)
RE	SLA-06	145528	Logperiodic Antenna	Schwarzbeck Mess - Elektronik	VUSLP9111B	195	2020/04/04	12
RE	SOS-20	191837	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/28	12
RE	SOS-21	191838	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/28	12
RE	STR-07	146209	Receiver, EMI	Rohde & Schwarz	ESU26	100484	2020/09/07	12
RE	STS-02	145793	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997819	2020/04/09	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards

Test Item:

RE: Radiated emission,

AT: Antenna terminal disturbance voltage

End of Report