

**Test Report No.:** CANEC23015268009 **Date:** Dec 11, 2023 Page 1 of 10

Client Name: MC-POWER SEMICONDUCTOR CO.,LTD

Client Address: 1 SHUANGXING AVENUE, HUANGJIA STREET, SOUTHWEST AIRPORT ECONOMIC

DEVELOPMENT ZONE, SHUANGLIU DISTRICT, CHENGDU, CHINA (SICHUAN) PILOT

FREE TRADE ZONE

Sample Name: Power elemen

Model No.: TO-220F

Client Ref. Information: TO-126 TO-263 TO-262 TO-251 TO-252 TO-220 TO-220FTO-220HF,

TO-247

TO-247L TO-277 TO-3P TO-220C TO-247PLUS TO-263-7 TO-247-4-TO-264 GBU ABS MBS MBF DFN3\*3 DFN5\*6 DFN8\*8 SOP8 ESOP SOT-223 TOLL

The above sample(s) and information were provided by the client.

The above sample(s) and information were provided by the shorts.

SGS Job No.: CQP23-004840 Sample Receiving Date: Nov 29, 2023

Testing Period: Nov 29, 2023 ~ Dec 07, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Targeted 221 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zm Guan

Approved Signatory

Luguan





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### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0152680-0001.C001	Black "body" with gray printing(mixed)

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

## Targeted 221 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS

and GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
PFOS, its salts and related compounds				
Perfluorooctane sulfonates (PFOS)Note (1)	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1- octanesulfonamido)-ethanol (N- MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA) Note (25)	754-91-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA)Note (2)	335-67-1	mg/kg	0.010	ND
PFOA-related compounds				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) <sup>Note (3)</sup>	39108-34-4	mg/kg	0.010	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) <sup>Note (3)</sup>	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)Note (3), Note (11)	27854-31-5	mg/kg	0.010	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND
C9-C14 PFCA, their salts	_	-	-	



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Test term(s)	11011 0711120200	1020000	Date. Dec	11, 2020	1 age 6 61
Perfluorodecane Acid (PFDA) Note (1)   2058-94-8   mg/kg   0.010   ND		CAS No.	Unit(s)	MDL	
Perfluoroundecanoic Acid (PFUnDA)Note   2058-94-8   mg/kg   0.010   ND	Perfluorononane Acid (PFNA)Note (4)		mg/kg		
Perfluorododecanoic Acid (PFDoDA)    Perfluorotridecanoic Acid (PFTDA)   Note (a)		335-76-2	mg/kg	0.010	ND
Associated   Perfluorotridecanoic Acid (PFTrDA)   Perfluorotetradecanoic Acid (PFTrDA)   Perfluorotetradecanoic Acid (PFTDA)   Associated   Perfluorotetradecanoic Acid (PFTDA)   Associated   Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)   Associated   Perfluoro-1-dodecanoic   Associated   Perfluoro-1-docecyl-1-dode-1-dod	(22)	2058-94-8	mg/kg	0.010	ND
Perfluorotetradecanoic Acid (PFTDA)   376-06-7   mg/kg   0.010   ND	· · · · · · · · · · · · · · · · · · ·	307-55-1	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)		72629-94-8	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.010	ND
Sum of C9-C14 PFCA, their salts   -   mg/kg   -   ND	Perfluoro-3,7-dimethyloctanoic Acid (PF-				ND
C9-C14 PFCA-related substances		_	ma/ka	-	ND
Perfluorodecane Sulfonate (PFDS) Note (10)   335-77-3   mg/kg   0.010   ND     HI, HI, 2H. 2H-Perfluoro-1-dodecanol (10:2 FTOH)   865-86-1   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorododecylacrylate (10:2 FTA)   17741-60-5   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorodecane (8:2 FTI)   2043-53-0   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorodecyl (8:2 FTS)  (0:2 Hs)a)   34598-33-9   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorodecanoic acid (HaPFUnDA/8:3 FTCA)  Note (12)   34598-33-9   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorododecyl methacrylate (10:2 FTMA)   2144-54-9   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorododecane sulfonic acid (10:2 FTS)   120226-60-0   mg/kg   0.010   ND     HI, 1H, 2H, 2H-Perfluorododecane sulfonic acid (10:2 FTS)   2043-54-1   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)   Note (3)   39108-34-4   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)   Note (3)   39108-34-4   mg/kg   0.1   ND     HI, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)   Note (3)   14,14,24,24-Perfluorodecane sulfonic acid (8:2 FTS)   Note (3)   14,14,24-Perfluorodecane sulfonic acid (8:2 FTS)   Note (3)   14,14,24,24-Perfluorodecane sulfonic acid (8:2 FTS)   Note (3)   14,14,24,24-Perfluorodecyl acrylate (8:2 FTA)   Not					
HI, HI, 2H, 2H-Perfluoro-1-dodecanol (10:2 FTOH)   ND		335-77-3	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	1H,1H,2H,2H-Perfluoro-1-dodecanol				ND
1-lodo-1H,1H,2H,2H-Perfluorodecane   2043-53-0   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2   101947-16-4   mg/kg   0.1   ND     FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )   2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>2</sub> PFUNDA/ 8:3 FTCA) Note (12)   34598-33-9   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)   2144-54-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)   120226-60-0   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)   2043-54-1   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (10:2 FTS)   39046-31-2   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)   Note (3)   39108-34-4   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)   Note (3)   27905-45-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTMA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTMA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTMA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTMA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTMA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)   Note (3)   1996-88-9   mg/kg   0.010   ND     1H,1H,2H,3H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)   Note (3)   1996-88-9   mg/kg   0.010   ND     1H,1H,2H,3H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)   Note (3)   Note	1H,1H,2H,2H-Perfluorododecylacrylate	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-    Perfluorodecyltriethoxysilane (8:2   101947-16-4   mg/kg   0.1   ND     FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )   2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnDA/ 8:3 FTCA) <sup>Note (12)</sup>   34598-33-9   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)   2144-54-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorotetradecan-1-ol (12:2 FTOH)   39239-77-5   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)   120226-60-0   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorotetradecyl iodide (10:2 FTI)   30046-31-2   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)   30046-31-2   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)   39108-34-4   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)   39108-34-4   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)   Note (3)   27905-45-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)   Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecoxyl acrylate (8:2 FTMA)   Note (3)   1996-88-9   mg/kg   0.1   ND     2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)   Note (3)   1996-88-9   mg/kg   0.1   ND     2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)   Note (3)   Note (3)   27854-31-5   mg/kg   0.010   ND     PFHXS, its salts   Perfluorohexane Sulfonate (PFHxS)   Note (9)   355-46-4   mg/kg   0.010   ND	1-lodo-1H,1H,2H,2H-perfluorodecane	2043-53-0	mg/kg	0.1	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnDA/ 8:3 FTCA) <sup>Note (12)</sup>   34598-33-9   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)   2144-54-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorotetradecan-1-ol (12:2 FTOH)   39239-77-5   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)   120226-60-0   mg/kg   0.010   ND     1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)   2043-54-1   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)   30046-31-2   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) Note (3)   39108-34-4   mg/kg   0.010   ND     1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) <sup>Note (3)</sup>   678-39-7   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) Note (3)   1996-88-9   mg/kg   0.1   ND     1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)   1996-88-9   mg/kg   0.1   ND     2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)   27854-31-5   mg/kg   0.010   ND     2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)   27854-31-5   mg/kg   0.010   ND     PFHXS, its salts   Perfluorohexane Sulfonate (PFHxS) Note   355-46-4   mg/kg   0.010   ND     PFHXS, its salts   Prefluorohexane Sulfonate (PFHxS) Note   355-46-4   mg/kg   0.010   ND     214-2-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	1H,1H,2H,2H- Perfluorodecyltriethoxysilane (8:2	101947-16-4	mg/kg	0.1	ND
methacrylate (10:2 FTMA)         2144-54-9         mg/kg         0.1         ND           1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)         39239-77-5         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)         120226-60-0         mg/kg         0.010         ND           1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)         2043-54-1         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)         30046-31-2         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)         39108-34-4         mg/kg         0.010         ND           1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)         678-39-7         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)         27905-45-9         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)         1996-88-9         mg/kg         0.1         ND           2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)         27854-31-5         mg/kg         0.010         ND           2HFMS, its salts         Perfluorohexane Sulfonate (PFHxS)         355-46-4         mg/kg         0.010         ND		34598-33-9	mg/kg	0.010	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)         39239-77-5         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)         120226-60-0         mg/kg         0.010         ND           1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)         2043-54-1         mg/kg         0.1         ND           1H,1H,2H-Perfluorotetradecyl iodide (12:2 FTI)         30046-31-2         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) Note (3)         39108-34-4         mg/kg         0.010         ND           1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)Note (3)         678-39-7         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) Note (3)         27905-45-9         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)         1996-88-9         mg/kg         0.1         ND           2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)         27854-31-5         mg/kg         0.010         ND           Sum of C9-C14-related substances         -         mg/kg         -         ND           Perfluorohexane Sulfonate (PFHxS) Note (7)         355-46-4         mg/kg         0.010         ND	1H,1H,2H,2H-Perfluorododecyl	2144-54-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)         120226-60-0         mg/kg         0.010         ND           1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)         2043-54-1         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)         30046-31-2         mg/kg         0.1         ND           1H,1H,2H-Perfluorodecanesulfonic acid (8:2 FTS) Note (3)         39108-34-4         mg/kg         0.010         ND           1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)Note (3)         678-39-7         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) Note (3)         27905-45-9         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)         1996-88-9         mg/kg         0.1         ND           2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)         27854-31-5         mg/kg         0.010         ND           Sum of C9-C14-related substances         -         mg/kg         -         ND           Perfluorohexane Sulfonate (PFHxS) <sup>Note</sup> (7)         355-46-4         mg/kg         0.010         ND	1H,1H,2H,2H-perfluorotetradecan-1-ol	39239-77-5	mg/kg	0.1	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)         2043-54-1         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)         30046-31-2         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) Note (3)         39108-34-4         mg/kg         0.010         ND           1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) Note (3)         678-39-7         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl (8:2 FTA) Note (3)         27905-45-9         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)         1996-88-9         mg/kg         0.1         ND           2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)         27854-31-5         mg/kg         0.010         ND           Sum of C9-C14-related substances         -         mg/kg         -         ND           PFHxS, its salts           Perfluorohexane Sulfonate (PFHxS) Note (7)         355-46-4         mg/kg         0.010         ND	1H,1H,2H,2H-Perfluorododecane	120226-60-0	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)         30046-31-2         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) Note (3)         39108-34-4         mg/kg         0.010         ND           1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) Note (3)         678-39-7         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) Note (3)         27905-45-9         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)         1996-88-9         mg/kg         0.1         ND           2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)         27854-31-5         mg/kg         0.010         ND           Sum of C9-C14-related substances         -         mg/kg         -         ND           PFHxS, its salts           Perfluorohexane Sulfonate (PFHxS) Note (7)         355-46-4         mg/kg         0.010         ND	1,1,2,2-Tetrahydroperfluorododecyl	2043-54-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) Note (3)       39108-34-4       mg/kg       0.010       ND         1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) Note (3)       678-39-7       mg/kg       0.1       ND         1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) Note (3)       27905-45-9       mg/kg       0.1       ND         1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)       1996-88-9       mg/kg       0.1       ND         2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)       27854-31-5       mg/kg       0.010       ND         Sum of C9-C14-related substances       -       mg/kg       -       ND         PFHxS, its salts         Perfluorohexane Sulfonate (PFHxS) Note (7)       355-46-4       mg/kg       0.010       ND	1H,1H,2H,2H-Perfluorotetradecyl iodide	30046-31-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)Note (3)       678-39-7       mg/kg       0.1       ND         1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) Note (3)       27905-45-9       mg/kg       0.1       ND         1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)       1996-88-9       mg/kg       0.1       ND         2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)       27854-31-5       mg/kg       0.010       ND         Sum of C9-C14-related substances       -       mg/kg       -       ND         PFHxS, its salts         Perfluorohexane Sulfonate (PFHxS)Note (7)       355-46-4       mg/kg       0.010       ND	1H,1H,2H,2H-Perfluorodecanesulfonic	39108-34-4	mg/kg	0.010	ND
(8:2 FTA) Note (3)         27905-45-9         mg/kg         0.1         ND           1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)         1996-88-9         mg/kg         0.1         ND           2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)         27854-31-5         mg/kg         0.010         ND           Sum of C9-C14-related substances         -         mg/kg         -         ND           PFHxS, its salts           Perfluorohexane Sulfonate (PFHxS)Note (7)         355-46-4         mg/kg         0.010         ND	1H,1H,2H,2H-Perfluoro-1-decanol (8:2	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) Note (3)       1996-88-9       mg/kg       0.1       ND         2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)       27854-31-5       mg/kg       0.010       ND         Sum of C9-C14-related substances       -       mg/kg       -       ND         PFHxS, its salts         Perfluorohexane Sulfonate (PFHxS)Note (7)       355-46-4       mg/kg       0.010       ND		27905-45-9	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) Note (3), Note (11)       27854-31-5       mg/kg       0.010       ND         Sum of C9-C14-related substances       -       mg/kg       -       ND         PFHxS, its salts         Perfluorohexane Sulfonate (PFHxS) Note (7)       355-46-4       mg/kg       0.010       ND	1H,1H,2H,2H-Perfluorodecyl	1996-88-9	mg/kg	0.1	ND
Sum of C9-C14-related substances - mg/kg - ND  PFHxS, its salts  Perfluorohexane Sulfonate (PFHxS) <sup>Note</sup> 355-46-4 mg/kg 0.010 ND	2H,2H-Perfluorodecane Acid	27854-31-5	mg/kg	0.010	ND
PFHxS, its salts       Perfluorohexane Sulfonate (PFHxS) <sup>Note</sup> (7)     355-46-4     mg/kg     0.010     ND		-	mg/kg	-	ND
Perfluorohexane Sulfonate (PFHxS) <sup>Note</sup> 355-46-4 mg/kg 0.010 ND			. 5 5		
PFHxS-related compounds	Perfluorohexane Sulfonate (PFHxS)Note	355-46-4	mg/kg	0.010	ND
	PFHxS-related compounds		•		



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			.,	r age + or
Test Item(s)	CAS No.	Unit(s)	MDL	A1
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.010	ND
N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	mg/kg	0.010	ND
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	mg/kg	0.5	ND
Other PFAS			T	
Perfluorobutane Acid (PFBA)Note (13)	375-22-4	mg/kg	0.010	ND
Perfluorobutane Sulfonate (PFBS)Note (5)	375-73-5	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC <sub>3</sub> H <sub>8</sub> O)	34454-97-2	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA)Note (17)	2706-90-3	mg/kg	0.010	ND
Perfluorohexane Acid (PFHxA)Note (6)	307-24-4	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA)Note (14)	375-85-9	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS) <sup>Note (8)</sup>	375-92-8	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) Note (26)	27619-97-2	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
2,3,3,3-tetrafluoro-2- (heptafluoropropoxy) propionic acid (HFPO-DA) <sup>Note (9)</sup>	13252-13-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1- octanesulfonamidoacetic Acid (N- MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
Perfluoropentane sulfonic acid (PFPeS) <sup>Note (18)</sup>	2706-91-4	mg/kg	0.010	ND
Perfluoro nonane sulfonic acid (PFNS) <sup>Note (19)</sup>	68259-12-1	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS)Note (16)	749786-16-1	mg/kg	0.010	ND
Perfluorododecanesulfonic acid (PFDoDS) <sup>Note (20)</sup>	79780-39-5	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS)Note (21)	791563-89-8	mg/kg	0.010	ND



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**Test Report No.:** CANEC23015268009 **Date:** Dec 11, 2023 Page 5 of 10

1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)  2-Perfluorohexyl ethanoic acid (6:2 FTCA)  3-Perfluoropentyl propagoic acid (5:3 mg/kg 0.010 N	ID ID
acid (4:2 FTS)  2-Perfluorohexyl ethanoic acid (6:2 FTCA)  3-Perfluoropentyl propagoic acid (5:3 mg/kg 0.010 N	ID ID
2-Perfluorohexyl ethanoic acid (6:2 53826-12-3 mg/kg 0.010 N	ID
3-Perfluoropentyl propanoic acid (5:3	
FTCA) 914637-49-3 mg/kg 0.010 N	ın
Perfluorohexadecanoic Acid (PFHxDA) 67905-19-5 mg/kg 0.010 N	ו טו
	ID
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl) hydrogen phosphate (8:2diPAP) <sup>Note (15)</sup> 678-41-1 mg/kg 0.010 N	ID
1H 1H 2H 2H-Perfluorooctyl	ID
(ADONA)	ID
(PFMPA)	ID
Perfluoro-4-methoxybutanoic acid (PFMBA) 863090-89-5 mg/kg 0.010 N	ID
(NEDHA)	ID
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 756426-58-1 mg/kg 0.010 N	ID
11-Chloroeicosafluoro-3-oxaundecane- 1-sulfonic acid (11Cl-PF3OUdS) 763051-92-9 mg/kg 0.010 N	ID
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA) 113507-82-7 mg/kg 0.010 N	ID
FICA)	ID
3-Perfluoroheptyl propanoic acid (7:3 RTCA) 812-70-4 mg/kg 0.010 N	ID
Perfluoropentadecanoic Acid (PFPeDA) 141074-63-7 mg/kg 0.1 N	ID
methacrylate (4:2 FTMA)	ID
etnyl acrylate (EtrOSAC)	ID
1H 1H 2H-Hentadecafluoro-1-decene	ID
Perfluorooctyl triethoxysilane (POTS) 51851-37-7 mg/kg 0.1 N	ID
Perfluorododecyl iodide (PFDoDI) 307-60-8 mg/kg 0.1 N	ID
	ID
11H-Perfluoroundecanoic acid (11H-PFUnDA) Note (23) 1765-48-6 mg/kg 0.1 N	ID

#### Notes:

(1) PFOS refer to its salts/derivative including

PFOS-K
PFOS-Li
PFOS-Na
PFOS-NH4
PFOS-NH2(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub>
CAS No.: 2795-39-3
CAS No.: 29457-72-5
CAS No.: 4021-47-0
CAS No.: 29081-56-9
PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub>
CAS No.: 70225-14-8



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**Test Report** No.: CANEC23015268009 Date: Dec 11, 2023 Page 6 of 10 PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 56773-42-3 PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> CAS No.: 251099-16-8 CAS No.: 307-35-7 **POSF** POSF-Mg CAS No.: 91036-71-4 PFOA refer to its salts/derivative including PFOA-Na CAS No.: 335-95-5 CAS No.: 2395-00-8 PFOA-K PFOA-Ag CAS No.: 335-93-3 PFOA-F CAS No.: 335-66-0 **APFO** CAS No.: 3825-26-1 PFOA-Li CAS No.: 17125-58-5 (3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances. 8:2 FTS refer to its salts including 8:2 FTS-K CAS No.: 438237-73-1 8:2 FTS-NH<sub>4</sub> CAS No.: 149724-40-3 8:2 FTS-Na CAS No.: 27619-96-1 (4) PFNA refer to its salts including PFNA-Na CAS No.: 21049-39-8 CAS No.: 4149-60-4 PFNA-NH<sub>4</sub> PFNA-K CAS No.: 21049-38-7 CAS No.: 60871-92-3 PFNA-Li PFNA-Ag CAS No.: 7358-16-9 PFDA refer to its salts including PFDA-Na CAS No. 3830-45-3 PFDA-NH<sub>4</sub> CAS No: 3108-42-7 CAS No: 51604-85-4 PFDA-K PFDA-Ag CAS No: 5784-82-7 PFDA-Li CAS No: 84743-32-8 PFDoDA refer to its salts including PFDoDA-NH₄ CAS No: 3793-74-6 PFDoDA-Na CAS No: 60872-01-7 PFBS refers to its salts/derivative including CAS No.: 29420-49-3 PFBS-K PFBS-H<sub>2</sub>O CAS No.: 59933-66-3 PFBS-Li CAS No.: 131651-65-5 **TPS-PFBS** CAS No.: 144317-44-2 PFBS-S(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub> CAS No.: 220133-51-7 CAS No.: 220689-12-3 PFBS-P(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> PFBS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 25628-08-4 CAS No.: 375-72-4 PFBS-F PFBS-NC<sub>4</sub>H<sub>9</sub>O CAS No.: 503155-89-3 PFBS-Mg CAS No.: 507453-86-3 CAS No.: 68259-10-9 PFBS-NH<sub>4</sub> PFBS-SC<sub>18</sub>H<sub>23</sub>O CAS No.: 209482-18-8 PFBS-CI CAS No.: 2991-84-6 CAS No.: 60453-92-1 PFBS-Na CAS No.: 194999-85-4 PFBS-I( $C_6H_4$ )<sub>2</sub>( $C_4H_9$ )<sub>2</sub> PFBS-NH(C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub> CAS No.: 70225-18-2 (6) PFHxA refers to its salt including **APFHx** CAS No.: 21615-47-4 PFHxA-Na CAS No.: 2923-26-4 PFHxA-K CAS No.: 3109-94-2 CAS No.: 355-38-4 PFHxA-F CAS No.: 336-02-7 PFHxA-Ag PFHxA-Li CAS No.: 90430-61-8 (7) PFHxS refers to its salts including CAS No.: 82382-12-5 PFHxS-Na CAS No.: 3871-99-6 PFHxS-K PFHxS-Li CAS No.: 55120-77-9 PFHxS-NH<sub>4</sub> CAS No.: 68259-08-5 CAS No.: 1000597-52-3



PFHxS-BTPP PFHxS-N(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub>

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CAS No.: 108427-54-9

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**Test Report** CANEC23015268009 Date: Dec 11, 2023 Page 7 of 10 No · PFHxS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 108427-55-0 PFHxS-NC<sub>4</sub>H<sub>9</sub> CAS No.: 1187817-57-7 PFHxS-(NC<sub>10</sub>H<sub>14</sub>)<sub>3</sub>C<sub>5</sub>H<sub>4</sub> CAS No.: 1310480-24-0 PFHxS-(NC<sub>8</sub>H<sub>10</sub>)<sub>2</sub>C<sub>13</sub>H<sub>12</sub> CAS No.: 1310480-27-3 CAS No.: 1310480-28-4 PFHxS-(NC<sub>8</sub>H<sub>10</sub>)<sub>2</sub>C<sub>17</sub>H<sub>12</sub> PFHxS-C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> CAS No.: 1329995-45-0 PFHxS-C<sub>48</sub>H<sub>80</sub>O<sub>40</sub> CAS No.: 1329995-69-8 TPS-PFHxS CAS No.: 144116-10-9  $PFHxS\text{-}C_{44}H_{37}N_2O_2$ CAS No.: 1462414-59-0 CAS No.: 153443-35-7 PFHxS-I(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub> PFHxS-TMA CAS No.: 189274-31-5 CAS No.: 202189-84-2 PFHxS-NH<sub>2</sub>(CH<sub>3</sub>)<sub>3</sub>  $PFHxS-I(C_6H_4)_2(C_4H_9)_2$ CAS No.: 213740-81-9 CAS No.: 341035-71-0 PFHxS-Ga PFHxS-S(C<sub>7</sub>H<sub>7</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub> CAS No.: 341548-85-4 PFHxS-Sc CAS No.: 350836-93-0 CAS No.: 41184-65-0 PFHxS-Nd PFHxS-Y CAS No.: 41242-12-0  $PFHxS-S_{3}(C_{6}H_{5})_{4}(C_{6}H_{4})_{2} \\$ CAS No.: 421555-73-9  $PFHxS-I(C_6H_4)_2(C_5H_{11})_2$ CAS No.: 421555-74-0 CAS No.: 423-50-7 PFHxS-F CAS No.: 425670-70-8  $PFHxS-S(C_6H_4)_3(C_4H_9)_3$ PFHxS-Zn CAS No.: 70136-72-0 CAS No.: 70225-16-0 PFHxS-NH(C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub> PFHxS-N(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub> CAS No.: 72033-41-1 CAS No.: 866621-50-3  $PFHxS\text{--}I(C_{6}H_{4})_{2}(C_{4}H_{9})_{2}$ PFHxS-S( $C_6H_5$ )<sub>2</sub> $C_7H_7$ CAS No.: 910606-39-2  $PFHxS-S(C_{6}H_{5})_{2}C_{10}H_{9}O_{2}$ CAS No.: 911027-68-4 PFHxS-Cs CAS No.: 92011-17-1 PFHxS-SC<sub>28</sub>H<sub>31</sub>O<sub>4</sub> CAS No.: 928049-42-7 CAS No.: 55591-23-6 PFHxS-CI PFHxS-Sulfonium, propenoate polymer CAS No.: 911027-69-5 (8) PFHpS refers to its salts including PFHpS-Na CAS No.: 21934-50-9 PFHpS-K CAS No.: 60270-55-5 PFHpS-NH<sub>4</sub> CAS No.: 68259-07-4 PFHpS-Li CAS No.: 117806-54-9 HFPO-DA refers to its salts including HFPO-DA-NH<sub>4</sub> CAS No.: 62037-80-3 CAS No.: 67118-55-2 HFPO-DA-K HFPO-DA-F CAS No.: 2062-98-8 (10) PFDS refer to its salts including CAS No.: 2806-15-7 PFDS-Na PFDS-K CAS No.: 2806-16-8 CAS No.: 67906-42-7 PFDS-NH<sub>4</sub> (11) H2PFDA / 8:2 FTCA refer to its salt/derivative including 8:2 FTCA-P(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> CAS No.: 882489-14-7 (12) H4PFUnDA/ 8:3 FTCA refer to its salts including H4PFUnDA-K CAS No.: 83310-58-1 (13) PFBA refers to its salts including CAS No.: 10495-86-0 PFBA-NH<sub>4</sub> CAS No.: 2218-54-4 PFBA-Na CAS No.: 2966-54-3 PFBA-K PFBA-Ag CAS No.: 3794-64-7 PFBA-Li CAS No.: 4146-76-3 (14) PFHpA refers to its salts including CAS No.: 20109-59-5 PFHpA-Na CAS No.: 21049-36-5 PFHpA-K PFHpA-NH<sub>4</sub> CAS No.: 6130-43-4 PFHpA-Cs CAS No.: 171198-24-6



PFHpA-Ag PFHpA-Li

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CAS No.: 424-05-5

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(15) 8:2diPAP refers to its salts including

8:2diPAP-Na

(16) PFUnDS refers to its salts including PFUnDS-Na

(17) PFPeA refers to its salts including

PFPeA-Na PFPeA-K PFPeA-NH<sub>4</sub> PFPeA-Li

PFPeA-Ag
(18) PFPeS refers to its salts including

PFPeS-Na PFPeS-K PFPeS-NH<sub>4</sub>

(19) PFNS refers to its salts including

PFNS-Na PFNS-NH<sub>4</sub> PFNS-K

(20) PFDoDS refers to its salts including

PFDoDS-Na

(21) PFTrDS refers to its salts including

PFTrDS-Na

(22) PFUnDA refers to its salts including

PFUnDA-Na PFUnDA-NH<sub>4</sub> PFUnDA-K

(23) 11H-PFUnDA refers to its salts including

11H-PFUnDA-K 11H-PFUnDA-NH<sub>4</sub>

(24) PFTrDA refers to its salts including

PFTrDA-NH<sub>4</sub>

(25) PFOSA refers to its salts including

PFOSA-Li

(26) 6:2 FTS refers to its salts including

6:2 FTS-Na 6:2 FTS-K

6:2 FTS-NH<sub>4</sub>

CAS No.: 114519-85-6

CAS No.: 441296-91-9 (anion)

CAS No.: 2706-89-0 CAS No.: 336-23-2 CAS No.: 68259-11-0 CAS No.: 198482-22-3 CAS No.: 2795-30-4

CAS No.: 630402-22-1 CAS No.: 3872-25-1 CAS No.: 68259-09-6

CAS No.: 98789-57-2 CAS No.: 17202-41-4 CAS No.: 29359-39-5

CAS No.: 1260224-54-1

CAS No.: 174675-49-1

CAS No.: 60871-96-7 CAS No.: 4234-23-5

CAS No.: 30377-53-8

CAS No.: 307-71-1 CAS No.: 5081-02-7

CAS No.: 4288-72-6

CAS No.: 76752-79-9

CAS No.: 27619-94-9 CAS No.: 59587-38-1 CAS No.: 59587-39-2

Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



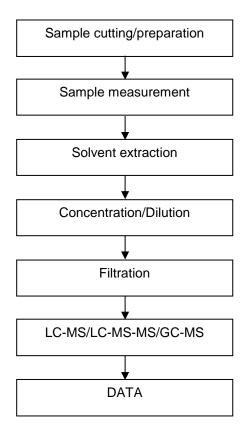
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# Test Report ATTACHMENTS

## PFASs/ PFOS/PFOA Testing Flow Chart





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Sample Photo:



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