

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081722\
 Data File : VL039539.D
 Acq On : 17 Aug 2022 5:35
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/18/2022
 Supervised By : Mahesh Dadoda 08/19/2022

Quant Time: Aug 17 06:07:03 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 17 2022

QLast Update : Wed Aug 17 04:35:27 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.204	49	1097485	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2902482	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2640756	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.776 95 2018832 10.296 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	93277m	0.603	ppbv	
3) Chlorodifluoromethane	2.693	51	69885	0.507	ppbv	99
4) Chloromethane	2.834	50	42402m	0.553	ppbv	
5) Vinyl Chloride	2.944	62	34759m	0.465	ppbv	
6) Bromomethane	3.137	94	14634	0.477	ppbv	91
7) Chloroethane	3.214	64	12211	0.463	ppbv	93
8) Dichlorotetrafluoroethane	2.876	85	86053	0.505	ppbv	98
9) Propene	2.712	41	32663	0.523	ppbv	98
10) Heptane	7.590	43	63026m	0.433	ppbv	
11) Trichlorofluoromethane	3.577	101	87860m	0.506	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.085	101	64219m	0.500	ppbv	
13) Ethanol	3.275	45	2431	0.669	ppbv	80
14) Bromoethene	3.381	108	26662m	0.491	ppbv	
15) Acetone	3.497	43	68058	0.532	ppbv	98
16) 1,3-Butadiene	3.002	39	33481	0.502	ppbv	94
17) tert-Butyl alcohol	3.912	59	55655m	0.518	ppbv	
18) 1,1-Dichloroethene	3.896	96	29138m	0.500	ppbv	
19) Isopropyl Alcohol	3.609	45	31266m	0.462	ppbv	
20) Methylene Chloride	3.950	84	30228	0.594	ppbv	86
21) Allyl Chloride	4.015	41	39346	0.444	ppbv	86
22) trans-1,2-Dichloroethene	4.458	96	28854m	0.514	ppbv	
23) Vinyl Acetate	4.641	43	32631m	0.401	ppbv	
24) 1,1-Dichloroethane	4.577	63	56245m	0.466	ppbv	
25) Ethyl Acetate	5.227	43	136044m	0.515	ppbv	
26) Hexane	5.220	57	53599	0.509	ppbv	93
27) Carbon Disulfide	4.140	76	52229m	0.411	ppbv	
28) Methyl tert-Butyl Ether	4.613	73	48715m	0.438	ppbv	
29) Chloroform	5.281	83	87996m	0.481	ppbv	
30) Cyclohexane	6.606	84	45309m	0.472	ppbv	
31) cis-1,2-Dichloroethene	5.092	61	51697m	0.462	ppbv	
32) 1,1,1-Trichloroethane	6.011	97	75480m	0.418	ppbv	
34) 2-Butanone	4.818	43	75555m	0.524	ppbv	
35) Carbon Tetrachloride	6.503	117	77038m	0.436	ppbv	
36) Benzene	6.378	78	109527	0.490	ppbv	96
37) 1,2-Dichloroethane	5.812	62	60871m	0.466	ppbv	
38) Trichloroethene	7.301	130	58385m	0.479	ppbv	
39) 1,2-Dichloropropane	7.079	63	39265	0.471	ppbv	92
40) 1,4-Dioxane	7.329	88	18494m	0.560	ppbv	
41) Tetrahydrofuran	5.590	42	40732m	0.483	ppbv	
42) Bromodichloromethane	7.249	83	78709m	0.446	ppbv	
43) Methyl Methacrylate	7.493	69	34929m	0.413	ppbv	
44) 2,2,4-Trimethylpentane	7.329	57	176329m	0.466	ppbv	
45) t-1,3-Dichloropropene	8.709	75	26076m	0.354	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	38086m	0.370	ppbv	
47) 1,1,2-Trichloroethane	8.905	97	48336m	0.517	ppbv	
48) Dibromochloromethane	9.715	129	58875	0.399	ppbv	96
49) Bromoform	12.410	173	45076	0.378	ppbv #	100
50) 4-Methyl-2-Pentanone	8.207	43	97604m	0.442	ppbv	
51) 2-Hexanone	9.577	43	69714m	0.419	ppbv	
52) Tetrachloroethene	10.622	164	40800m	0.455	ppbv	
53) Toluene	9.220	91	105578m	0.411	ppbv	
54) 1,2-Dibromoethane	10.011	107	51873m	0.452	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.506	131	54572	0.478	ppbv #	1
57) Chlorobenzene	11.529	112	104406	0.519	ppbv #	91
58) Ethyl Benzene	12.098	91	130879	0.392	ppbv	96
59) m/p-Xylene	12.371	91	258430m	0.880	ppbv	
60) o-Xylene	13.062	91	120479	0.432	ppbv	100
61) Styrene	12.898	104	51352m	0.341	ppbv	
62) Isopropylbenzene	14.033	105	195454m	0.461	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.050	83	65895m	0.454	ppbv	
64) n-propylbenzene	14.914	120	50188m	0.469	ppbv	
65) tert-Butylbenzene	16.091	119	160953	0.413	ppbv	88
66) Benzyl Chloride	16.329	91	10759m	0.304	ppbv	
67) sec-Butylbenzene	16.641	105	245666m	0.466	ppbv	
69) p-Isopropyltoluene	16.998	119	195313m	0.439	ppbv	
70) n-Butylbenzene	17.889	91	189854m	0.438	ppbv	
71) 2-Chlorotoluene	14.805	91	132190	0.435	ppbv	100
72) 4-Ethyltoluene	15.194	105	141337m	0.430	ppbv	
73) 1,3,5-Trimethylbenzene	15.358	105	130135m	0.433	ppbv	
74) 1,2,4-Trimethylbenzene	16.110	105	154708m	0.467	ppbv	
75) 1,3-Dichlorobenzene	16.332	146	96483m	0.488	ppbv	
76) 1,4-Dichlorobenzene	16.477	146	97967m	0.495	ppbv	
77) 1,2-Dichlorobenzene	17.143	146	92833m	0.475	ppbv	
78) Hexachloro-1,3-Butadiene	22.634	225	79390	0.502	ppbv #	100
79) Naphthalene	21.387	128	91590	0.398	ppbv	99
80) Naphthalene,2-methyl-	24.393	142	31290m	0.381	ppbv	
81) 1,2,4-Trichlorobenzene	21.146	180	68191	0.457	ppbv #	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Reviewed By :Semsettin Yesilyurt 08/18/2022
Supervised By :Mahesh Dadoda 08/19/2022

Abundance

TIC: VL039539.D\data.ms

Time-->

4800000

4600000

4400000

4200000

4000000

3800000

3600000

3400000

3200000

3000000

2800000

2600000

2400000

2200000

2000000

1800000

1600000

1400000

1200000

1000000

800000

600000

400000

200000

0

0.00

2.00

4.00

6.00

8.00

10.00

12.00

14.00

16.00

18.00

20.00

22.00

24.00

26.00

Chlorobenzene-d5,I

1,4-Difluorobenzene,I

Bromochloromethane,I

Ethyl Acetate,I

Hexane,T

Chlorobenzene,T

Tetrachloroethane

Chlorobenzene,T

Ethyl Benzene,T

Bromobenzene,T

Styrene,T

1,2-Dibromoethane,T

Isopropylbenzene

2-Chlorobenzene

4-Chlorobenzene

1,3,5-Trichlorobenzene,T

1,2,4-Trichlorobenzene,T

1,2-Dichlorobenzene,T

1,3-Dichlorobenzene,T

1,4-Dichlorobenzene,T

1,1,1-Trichloroethane,T

1,1,2-Trichloroethane,T

1,1,2,2-Tetrachloroethane,T

1,2-Dichloropropane,T

Bromochloropropane,T

Hexachlorocyclopentadiene,T

1,2-Dichloropropane,T

1,1,2-Trichloropropane,T

1,1,2,2-Tetrachloropropane,T

1,2-Dibromopropane,T

1,2-Dibromoethane,T

Tetrachloroethene,T

1,2,4-Trichlorobenzene,T

Naphthalene,T

Hexachloro-1,3-Butadiene,T

Naphthalene,2-methyl-,T