

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051322\
 Data File : VL039039.D
 Acq On : 13 May 2022 16:19
 Operator : SY/AP
 Sample : 0.4 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 MDL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/16/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 00:53:45 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 14 00:53:45 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.648	49	915859	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	7.153	114	2298165	10.000	ppbv	-0.02
55) Chlorobenzene-d5	12.060	117	1927810	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.387 95 1541943 10.100 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.044	85	77874	0.543	ppbv	94
3) Chlorodifluoromethane	2.983	51	55216	0.486	ppbv	98
4) Chloromethane	3.134	50	25034	0.440	ppbv	97
5) Vinyl Chloride	3.253	62	19353	0.372	ppbv #	82
6) Bromomethane	3.462	94	11126m	0.453	ppbv	
7) Chloroethane	3.549	64	8906	0.512	ppbv	92
8) Dichlorotetrafluoroethane	3.182	85	55825	0.429	ppbv #	79
9) Propene	3.002	41	26467m	0.533	ppbv	
10) Heptane	8.102	43	50109m	0.412	ppbv	
11) Trichlorofluoromethane	3.941	101	56204	0.456	ppbv #	80
12) 1,1,2-Trichlorotrifluoro...	4.478	101	41718	0.492	ppbv	92
13) Ethanol	3.616	45	3449m	0.982	ppbv	
14) Bromoethene	3.735	108	17608m	0.503	ppbv	
15) Acetone	3.854	43	48234m	0.558	ppbv	
16) 1,3-Butadiene	3.317	39	21499	0.433	ppbv	83
17) tert-Butyl alcohol	4.295	59	33406m	0.503	ppbv	
18) 1,1-Dichloroethene	4.275	96	16350	0.448	ppbv #	78
19) Isopropyl Alcohol	3.973	45	17394	0.423	ppbv #	66
20) Methylene Chloride	4.333	84	16223	0.498	ppbv	96
21) Allyl Chloride	4.401	41	26252m	0.446	ppbv	
22) trans-1,2-Dichloroethene	4.873	96	16148	0.410	ppbv	81
23) Vinyl Acetate	5.070	43	39340m	0.576	ppbv	
24) 1,1-Dichloroethane	4.996	63	34354	0.436	ppbv	99
25) Ethyl Acetate	5.671	43	83470	0.404	ppbv #	91
26) Hexane	5.671	57	38270	0.417	ppbv	86
27) Carbon Disulfide	4.536	76	28030	0.321	ppbv #	79
28) Methyl tert-Butyl Ether	5.034	73	35539m	0.508	ppbv	
29) Chloroform	5.735	83	65511	0.441	ppbv	97
30) Cyclohexane	7.114	84	37033m	0.481	ppbv	
31) cis-1,2-Dichloroethene	5.536	61	39798m	0.425	ppbv	
32) 1,1,1-Trichloroethane	6.497	97	61417	0.413	ppbv	95
34) 2-Butanone	5.243	43	58766m	0.501	ppbv	
35) Carbon Tetrachloride	6.992	117	58978m	0.389	ppbv	
36) Benzene	6.870	78	79796m	0.406	ppbv	
37) 1,2-Dichloroethane	6.291	62	52550m	0.432	ppbv	
38) Trichloroethene	7.812	130	32853	0.376	ppbv #	85
39) 1,2-Dichloropropane	7.594	63	33057m	0.432	ppbv	
40) 1,4-Dioxane	7.848	88	12371m	0.450	ppbv	
41) Tetrahydrofuran	6.053	42	29929m	0.380	ppbv	
42) Bromodichloromethane	7.770	83	60251m	0.362	ppbv	
43) Methyl Methacrylate	7.999	69	28731m	0.360	ppbv	
44) 2,2,4-Trimethylpentane	7.848	57	141503m	0.410	ppbv	
45) t-1,3-Dichloropropene	9.259	75	18775m	0.243	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.680	75	27872	0.272	ppbv	# 82
47) 1,1,2-Trichloroethane	9.452	97	32468m	0.408	ppbv	
48) Dibromochloromethane	10.285	129	41829m	0.323	ppbv	
49) Bromoform	13.005	173	29232m	0.296	ppbv	
50) 4-Methyl-2-Pentanone	8.748	43	75140m	0.365	ppbv	
51) 2-Hexanone	10.127	43	52503m	0.350	ppbv	
52) Tetrachloroethene	11.198	164	29530m	0.420	ppbv	
53) Toluene	9.783	91	84181	0.382	ppbv	98
54) 1,2-Dibromoethane	10.590	107	38660	0.357	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.101	131	35895m	0.424	ppbv	
57) Chlorobenzene	12.124	112	67262m	0.465	ppbv	
58) Ethyl Benzene	12.687	91	115069	0.415	ppbv	94
59) m/p-Xylene	12.966	91	203908m	0.861	ppbv	
60) o-Xylene	13.664	91	97438	0.437	ppbv	99
61) Styrene	13.497	104	46331m	0.389	ppbv	
62) Isopropylbenzene	14.642	105	145289	0.446	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.648	83	57059m	0.435	ppbv	
64) n-propylbenzene	15.535	120	34062m	0.432	ppbv	
65) tert-Butylbenzene	16.719	119	125245m	0.438	ppbv	
66) Benzyl Chloride	16.963	91	10607m	0.284	ppbv	
67) sec-Butylbenzene	17.262	105	164418	0.403	ppbv	97
69) p-Isopropyltoluene	17.622	119	140907m	0.427	ppbv	
70) n-Butylbenzene	18.522	91	132053	0.377	ppbv	100
71) 2-Chlorotoluene	15.426	91	102824	0.409	ppbv	100
72) 4-Ethyltoluene	15.812	105	108767m	0.428	ppbv	
73) 1,3,5-Trimethylbenzene	15.969	105	92080	0.403	ppbv	98
74) 1,2,4-Trimethylbenzene	16.728	105	104123m	0.416	ppbv	
75) 1,3-Dichlorobenzene	16.973	146	63024m	0.459	ppbv	
76) 1,4-Dichlorobenzene	17.108	146	58947m	0.437	ppbv	
77) 1,2-Dichlorobenzene	17.780	146	59160m	0.436	ppbv	
78) Hexachloro-1,3-Butadiene	23.345	225	60213m	0.483	ppbv	
79) Naphthalene	22.165	128	65933m	0.324	ppbv	
80) Naphthalene,2-methyl-	24.953	142	16529m	0.269	ppbv	
81) 1,2,4-Trichlorobenzene	21.889	180	45656m	0.383	ppbv	

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

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