

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072522\
 Data File : VL039521.D
 Acq On : 25 Jul 2022 15:15
 Operator : SY/AP
 Sample : VL0725ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0725ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/26/2022
 Supervised By : Mahesh Dadoda 07/26/2022

Quant Time: Jul 26 08:05:58 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 6 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.674	49	1061013	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	7.182	114	2968559	10.000	ppbv	0.03
55) Chlorobenzene-d5	12.092	117	2807298m	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.423 95 2193432 10.532 ppbv 0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.054	85	2251649	14.713	ppbv	98
3) Chlorodifluoromethane	2.993	51	1314254	9.763	ppbv	98
4) Chloromethane	3.147	50	712763	9.681	ppbv	99
5) Vinyl Chloride	3.263	62	687987	9.477	ppbv	98
6) Bromomethane	3.481	94	318490	10.424	ppbv	98
7) Chloroethane	3.562	64	257278	9.963	ppbv	98
8) Dichlorotetrafluoroethane	3.192	85	1742304	10.422	ppbv	100
9) Propene	3.015	41	568312	9.349	ppbv	99
10) Heptane	8.131	43	1489853	10.464	ppbv	99
11) Trichlorofluoromethane	3.957	101	1746181	10.239	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.491	101	1290616	10.152	ppbv	100
13) Ethanol	3.613	45	35679m	10.116	ppbv	
14) Bromoethene	3.745	108	549291	10.277	ppbv	99
15) Acetone	3.851	43	1310563	10.441	ppbv	99
16) 1,3-Butadiene	3.333	39	694542	10.664	ppbv	97
17) tert-Butyl alcohol	4.285	59	1204521	11.306	ppbv	100
18) 1,1-Dichloroethene	4.295	96	581977	10.104	ppbv	95
19) Isopropyl Alcohol	3.964	45	658857	9.840	ppbv	99
20) Methylene Chloride	4.349	84	487466	9.743	ppbv	98
21) Allyl Chloride	4.417	41	897701	10.326	ppbv	100
22) trans-1,2-Dichloroethene	4.890	96	581253	10.426	ppbv	96
23) Vinyl Acetate	5.079	43	984075	11.731	ppbv #	96
24) 1,1-Dichloroethane	5.018	63	1311911	11.073	ppbv	99
25) Ethyl Acetate	5.681	43	2739659	10.644	ppbv	99
26) Hexane	5.693	57	1108164	10.681	ppbv	95
27) Carbon Disulfide	4.555	76	1423817	11.370	ppbv	100
28) Methyl tert-Butyl Ether	5.037	73	1263967	11.394	ppbv	96
29) Chloroform	5.761	83	1876754	10.403	ppbv	98
30) Cyclohexane	7.140	84	988968	10.470	ppbv	99
31) cis-1,2-Dichloroethene	5.558	61	1177233	10.694	ppbv	98
32) 1,1,1-Trichloroethane	6.517	97	1923765	10.803	ppbv	99
34) 2-Butanone	5.246	43	1601955	10.720	ppbv	99
35) Carbon Tetrachloride	7.025	117	2043835	11.142	ppbv	100
36) Benzene	6.899	78	2409767	10.488	ppbv	97
37) 1,2-Dichloroethane	6.314	62	1456665	10.742	ppbv	99
38) Trichloroethene	7.844	130	1292471	10.401	ppbv	98
39) 1,2-Dichloropropane	7.619	63	882723	10.284	ppbv	97
40) 1,4-Dioxane	7.838	88	324518	9.488	ppbv #	1
41) Tetrahydrofuran	6.054	42	915864	10.576	ppbv	99
42) Bromodichloromethane	7.799	83	2030048	11.102	ppbv	94
43) Methyl Methacrylate	8.021	69	984692	11.272	ppbv	100
44) 2,2,4-Trimethylpentane	7.877	57	4019239	10.323	ppbv	99
45) t-1,3-Dichloropropene	9.285	75	1022705	13.148	ppbv	100

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.709	75	1330191	12.425	ppbv	99
47) 1,1,2-Trichloroethane	9.484	97	1012374	10.512	ppbv	97
48) Dibromochloromethane	10.314	129	1834116	11.982	ppbv	100
49) Bromoform	13.050	173	1558619	12.622	ppbv	99
50) 4-Methyl-2-Pentanone	8.748	43	2552837	11.298	ppbv	99
51) 2-Hexanone	10.140	43	2018988	11.813	ppbv	99
52) Tetrachloroethene	11.230	164	959149	10.370	ppbv	98
53) Toluene	9.815	91	2934345	11.072	ppbv	99
54) 1,2-Dibromoethane	10.619	107	1351230	11.276	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.134	131	1345533	10.850	ppbv	95
57) Chlorobenzene	12.156	112	2279452	10.473	ppbv	98
58) Ethyl Benzene	12.719	91	3969132	10.950	ppbv	100
59) m/p-Xylene	13.005	91	6927261m	21.676	ppbv	
60) o-Xylene	13.696	91	3319825	10.970	ppbv	100
61) Styrene	13.536	104	2000672	12.205	ppbv	100
62) Isopropylbenzene	14.674	105	4925894	10.689	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.683	83	1567729	9.884	ppbv	99
64) n-propylbenzene	15.571	120	1282603m	10.981	ppbv	
65) tert-Butylbenzene	16.751	119	4520074	10.614	ppbv	99
66) Benzyl Chloride	16.995	91	597670	14.769	ppbv	100
67) sec-Butylbenzene	17.297	105	6167121	10.752	ppbv	100
69) p-Isopropyltoluene	17.658	119	5341715	10.976	ppbv	100
70) n-Butylbenzene	18.551	91	5227670	11.067	ppbv	100
71) 2-Chlorotoluene	15.458	91	3676080	11.145	ppbv	98
72) 4-Ethyltoluene	15.847	105	4077623	11.461	ppbv	99
73) 1,3,5-Trimethylbenzene	16.002	105	3669671	11.230	ppbv	99
74) 1,2,4-Trimethylbenzene	16.767	105	3960957	10.957	ppbv	97
75) 1,3-Dichlorobenzene	17.002	146	2361681	10.952	ppbv	99
76) 1,4-Dichlorobenzene	17.140	146	2311056	10.813	ppbv	99
77) 1,2-Dichlorobenzene	17.822	146	2321089	10.859	ppbv	100
78) Hexachloro-1,3-Butadiene	23.374	225	1669503	9.712	ppbv	99
79) Naphthalene	22.198	128	3287832	13.216	ppbv	100
80) Naphthalene,2-methyl-	24.969	142	1112996	13.145	ppbv	95
81) 1,2,4-Trichlorobenzene	21.931	180	1840151	11.356	ppbv	100

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

