

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041322\
 Data File : VL038906.D
 Acq On : 13 Apr 2022 16:17
 Operator : SY/AP
 Sample : VL0413ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0413ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/14/2022
 Supervised By : Mahesh Dadoda 04/18/2022

Quant Time: Apr 14 08:25:01 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

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

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	1101449	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.182	114	2666860	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.092	117	2669388	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.420 95 2112830 10.435 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.054	85	1479669	9.471	ppbv	99
3) Chlorodifluoromethane	2.993	51	1334084	9.925	ppbv	93
4) Chloromethane	3.147	50	643133	9.240	ppbv	94
5) Vinyl Chloride	3.266	62	628817	9.777	ppbv	96
6) Bromomethane	3.481	94	328346	10.552	ppbv	100
7) Chloroethane	3.562	64	202875	9.459	ppbv	96
8) Dichlorotetrafluoroethane	3.195	85	1557848	10.674	ppbv	92
9) Propene	3.018	41	561877	7.900	ppbv	94
10) Heptane	8.128	43	1473184	8.224	ppbv	95
11) Trichlorofluoromethane	3.957	101	1423461	11.338	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.491	101	997464	10.372	ppbv	92
13) Ethanol	3.604	45	45038m	10.420	ppbv	
14) Bromoethene	3.745	108	422837	9.998	ppbv	99
15) Acetone	3.851	43	1115966	10.177	ppbv	98
16) 1,3-Butadiene	3.334	39	594058	9.476	ppbv	98
17) tert-Butyl alcohol	4.288	59	792699	8.061	ppbv	99
18) 1,1-Dichloroethene	4.292	96	444045	10.129	ppbv	97
19) Isopropyl Alcohol	3.967	45	545486	9.733	ppbv #	100
20) Methylene Chloride	4.350	84	369443	9.289	ppbv	94
21) Allyl Chloride	4.417	41	742793	9.047	ppbv	98
22) trans-1,2-Dichloroethene	4.890	96	471633	10.626	ppbv	96
23) Vinyl Acetate	5.076	43	984252	9.217	ppbv	100
24) 1,1-Dichloroethane	5.015	63	923617	9.571	ppbv	99
25) Ethyl Acetate	5.681	43	2551917	9.171	ppbv	99
26) Hexane	5.694	57	1119407	8.839	ppbv	99
27) Carbon Disulfide	4.555	76	1137452	9.793	ppbv	100
28) Methyl tert-Butyl Ether	5.038	73	838572	8.573	ppbv	99
29) Chloroform	5.758	83	1840748	10.388	ppbv	95
30) Cyclohexane	7.137	84	945187	8.468	ppbv	98
31) cis-1,2-Dichloroethene	5.552	61	1184163	10.169	ppbv	90
32) 1,1,1-Trichloroethane	6.517	97	1863223	10.436	ppbv	97
34) 2-Butanone	5.247	43	1531673	14.535	ppbv	96
35) Carbon Tetrachloride	7.025	117	1921796	12.020	ppbv	96
36) Benzene	6.896	78	2277850	9.389	ppbv	97
37) 1,2-Dichloroethane	6.311	62	1508328	13.598	ppbv #	94
38) Trichloroethene	7.838	130	918866	9.231	ppbv	95
39) 1,2-Dichloropropane	7.616	63	915296	9.864	ppbv	95
40) 1,4-Dioxane	7.832	88	310908m	9.867	ppbv	
41) Tetrahydrofuran	6.050	42	939114	9.383	ppbv	99
42) Bromodichloromethane	7.796	83	2079633	11.873	ppbv	99
43) Methyl Methacrylate	8.018	69	961480	10.347	ppbv	96
44) 2,2,4-Trimethylpentane	7.877	57	3937191	9.585	ppbv	98
45) t-1,3-Dichloropropene	9.282	75	1058890	10.898	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.710	75	1307138	10.204	ppbv	95
47) 1,1,2-Trichloroethane	9.478	97	933058	9.813	ppbv	97
48) Dibromochloromethane	10.308	129	1665983	11.179	ppbv	99
49) Bromoform	13.050	173	1330526m	11.272	ppbv	
50) 4-Methyl-2-Pentanone	8.745	43	2411946	10.176	ppbv	100
51) 2-Hexanone	10.134	43	1918564	10.742	ppbv #	95
52) Tetrachloroethene	11.227	164	783441	9.245	ppbv	98
53) Toluene	9.812	91	2627556	9.382	ppbv	99
54) 1,2-Dibromoethane	10.616	107	1366602	10.347	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.131	131	1124450	9.612	ppbv	97
57) Chlorobenzene	12.153	112	1888611	8.639	ppbv	95
58) Ethyl Benzene	12.716	91	3651384	9.154	ppbv	93
59) m/p-Xylene	13.002	91	6226991m	18.582	ppbv	
60) o-Xylene	13.700	91	2923629	9.323	ppbv	94
61) Styrene	13.532	104	1675647	8.771	ppbv	94
62) Isopropylbenzene	14.671	105	4169995	8.860	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.680	83	1849998	9.315	ppbv	100
64) n-propylbenzene	15.565	120	1070264	8.757	ppbv	77
65) tert-Butylbenzene	16.751	119	3685658	8.826	ppbv	92
66) Benzyl Chloride	16.995	91	582385	6.850	ppbv #	92
67) sec-Butylbenzene	17.298	105	5359448	9.146	ppbv	97
69) p-Isopropyltoluene	17.654	119	4408004	9.162	ppbv	96
70) n-Butylbenzene	18.552	91	4869793	10.047	ppbv	97
71) 2-Chlorotoluene	15.458	91	3322316	9.387	ppbv	94
72) 4-Ethyltoluene	15.841	105	3595495	9.602	ppbv	96
73) 1,3,5-Trimethylbenzene	15.999	105	3238619	9.628	ppbv	94
74) 1,2,4-Trimethylbenzene	16.767	105	3380996	9.508	ppbv	96
75) 1,3-Dichlorobenzene	16.999	146	1878031	9.096	ppbv	98
76) 1,4-Dichlorobenzene	17.140	146	1860256	9.147	ppbv	98
77) 1,2-Dichlorobenzene	17.822	146	1847445	9.078	ppbv	98
78) Hexachloro-1,3-Butadiene	23.375	225	1305586	8.119	ppbv	99
79) Naphthalene	22.201	128	2600362	9.776	ppbv	99
80) Naphthalene,2-methyl-	24.973	142	650477	9.924	ppbv	95
81) 1,2,4-Trichlorobenzene	21.931	180	1450258	9.316	ppbv	99

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

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