

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041922\
 Data File : VL038943.D
 Acq On : 19 Apr 2022 9:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2022
 Supervised By : Mahesh Dadoda 04/20/2022

Quant Time: Apr 20 04:24:41 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 20 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	5.687	49	1181333	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	7.195	114	3225506	10.000	ppbv	0.02
55) Chlorobenzene-d5	12.108	117	2895828m	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.436 95 2358256 10.736 ppbv 0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.067	85	2276868	13.588	ppbv	98
3) Chlorodifluoromethane	3.006	51	1439612	9.985	ppbv	98
4) Chloromethane	3.160	50	704741	9.440	ppbv	97
5) Vinyl Chloride	3.276	62	700061	10.149	ppbv	96
6) Bromomethane	3.494	94	361432	10.830	ppbv	98
7) Chloroethane	3.578	64	228634	9.940	ppbv	97
8) Dichlorotetrafluoroethane	3.205	85	1626943	10.394	ppbv	99
9) Propene	3.028	41	712976	9.347	ppbv	98
10) Heptane	8.144	43	1811851	9.430	ppbv	98
11) Trichlorofluoromethane	3.970	101	1558191	11.572	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.504	101	1175642	11.399	ppbv	96
13) Ethanol	3.623	45	47757m	10.302	ppbv	
14) Bromoethene	3.758	108	502501	11.078	ppbv	94
15) Acetone	3.867	43	1152320	9.798	ppbv	99
16) 1,3-Butadiene	3.346	39	674252	10.028	ppbv	99
17) tert-Butyl alcohol	4.301	59	949131	8.999	ppbv	100
18) 1,1-Dichloroethene	4.308	96	524351	11.153	ppbv	99
19) Isopropyl Alcohol	3.977	45	570488	9.490	ppbv #	100
20) Methylene Chloride	4.366	84	429183	10.062	ppbv	92
21) Allyl Chloride	4.430	41	880057	9.994	ppbv	98
22) trans-1,2-Dichloroethene	4.906	96	556651	11.694	ppbv	98
23) Vinyl Acetate	5.092	43	1256892	10.974	ppbv	99
24) 1,1-Dichloroethane	5.031	63	1115296	10.775	ppbv	99
25) Ethyl Acetate	5.694	43	2979641	9.985	ppbv	99
26) Hexane	5.706	57	1291969	9.511	ppbv	99
27) Carbon Disulfide	4.571	76	1372706	11.020	ppbv	98
28) Methyl tert-Butyl Ether	5.054	73	1051402	10.022	ppbv	100
29) Chloroform	5.774	83	1977795	10.407	ppbv	97
30) Cyclohexane	7.153	84	1125605	9.402	ppbv	98
31) cis-1,2-Dichloroethene	5.568	61	1254466	10.044	ppbv	98
32) 1,1,1-Trichloroethane	6.530	97	1966627	10.270	ppbv	99
34) 2-Butanone	5.260	43	1319704	10.354	ppbv	98
35) Carbon Tetrachloride	7.038	117	1984961	10.265	ppbv	100
36) Benzene	6.912	78	2781668	9.480	ppbv	99
37) 1,2-Dichloroethane	6.327	62	1488758	11.097	ppbv	98
38) Trichloroethene	7.857	130	1123034	9.328	ppbv	97
39) 1,2-Dichloropropane	7.636	63	1072725	9.558	ppbv	98
40) 1,4-Dioxane	7.851	88	402134	10.552	ppbv #	94
41) Tetrahydrofuran	6.067	42	1153476	9.529	ppbv	100
42) Bromodichloromethane	7.812	83	2226360	10.509	ppbv	98
43) Methyl Methacrylate	8.034	69	1160693	10.328	ppbv	99
44) 2,2,4-Trimethylpentane	7.890	57	4623664	9.307	ppbv	100
45) t-1,3-Dichloropropene	9.301	75	1260657	10.728	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.722	75	1579714	10.196	ppbv	98
47) 1,1,2-Trichloroethane	9.494	97	1136883	9.886	ppbv	98
48) Dibromochloromethane	10.327	129	1843135	10.226	ppbv	97
49) Bromoform	13.063	173	1491910	10.451	ppbv	100
50) 4-Methyl-2-Pentanone	8.758	43	2895670	10.100	ppbv	100
51) 2-Hexanone	10.150	43	2289217	10.598	ppbv	98
52) Tetrachloroethene	11.243	164	947355	9.243	ppbv	97
53) Toluene	9.828	91	3274853	9.668	ppbv	98
54) 1,2-Dibromoethane	10.632	107	1618072	10.129	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.143	131	1290817	10.172	ppbv	98
57) Chlorobenzene	12.169	112	2285236	9.635	ppbv	99
58) Ethyl Benzene	12.732	91	4371770	10.103	ppbv	96
59) m/p-Xylene	13.018	91	7239522m	19.914	ppbv	
60) o-Xylene	13.713	91	3390367	9.966	ppbv	96
61) Styrene	13.545	104	2141399	10.332	ppbv	99
62) Isopropylbenzene	14.687	105	4941745	9.678	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.696	83	2130170	9.887	ppbv	99
64) n-propylbenzene	15.581	120	1280641	9.659	ppbv	87
65) tert-Butylbenzene	16.767	119	4260970	9.406	ppbv	96
66) Benzyl Chloride	17.008	91	834967	9.053	ppbv	95
67) sec-Butylbenzene	17.314	105	6142544	9.663	ppbv	98
69) p-Isopropyltoluene	17.671	119	5068499	9.711	ppbv	99
70) n-Butylbenzene	18.571	91	5425133	10.317	ppbv	98
71) 2-Chlorotoluene	15.471	91	3854943	10.040	ppbv	97
72) 4-Ethyltoluene	15.857	105	4091969	10.074	ppbv	98
73) 1,3,5-Trimethylbenzene	16.015	105	3668795	10.054	ppbv	97
74) 1,2,4-Trimethylbenzene	16.783	105	3833151	9.937	ppbv	97
75) 1,3-Dichlorobenzene	17.015	146	2221806	9.920	ppbv	100
76) 1,4-Dichlorobenzene	17.159	146	2185634	9.907	ppbv	99
77) 1,2-Dichlorobenzene	17.838	146	2172646	9.841	ppbv	99
78) Hexachloro-1,3-Butadiene	23.391	225	1530145	8.772	ppbv	99
79) Naphthalene	22.214	128	3127543	10.838	ppbv	99
80) Naphthalene,2-methyl-	24.985	142	723213	10.171	ppbv	98
81) 1,2,4-Trichlorobenzene	21.944	180	1723196	10.204	ppbv	99

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

