

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040513.D
 Acq On : 10 Jul 2023 17:24
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071023

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/11/2023
 Supervised By : Mahesh Dadoda 07/11/2023

Quant Time: Jul 10 18:46:12 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 11 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1085172	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2799808	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2743711	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 2102017 9.680 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.739	85	2100888	9.679	ppbv	100
3) Chlorodifluoromethane	2.684	51	1591346	9.252	ppbv	98
4) Chloromethane	2.822	50	623866	9.156	ppbv	95
5) Vinyl Chloride	2.928	62	679060	9.491	ppbv	98
6) Bromomethane	3.128	94	295420	9.782	ppbv	98
7) Chloroethane	3.205	64	248068	9.882	ppbv	91
8) Dichlorotetrafluoroethane	2.864	85	1647946	9.228	ppbv	98
9) Propene	2.703	41	520176	8.834	ppbv	98
10) Heptane	7.590	43	1273242	9.792	ppbv	100
11) Trichlorofluoromethane	3.568	101	1684724	9.619	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.073	101	1181030	9.575	ppbv	97
13) Ethanol	3.250	45	105905	8.266	ppbv	98
14) Bromoethene	3.372	108	533791	10.064	ppbv	98
15) Acetone	3.475	43	1130158	9.048	ppbv	100
16) 1,3-Butadiene	2.993	39	616422	9.782	ppbv	100
17) tert-Butyl alcohol	3.883	59	1252097	9.691	ppbv	99
18) 1,1-Dichloroethene	3.886	96	548408	9.671	ppbv	99
19) Isopropyl Alcohol	3.581	45	699094	9.749	ppbv	100
20) Methylene Chloride	3.938	84	470123	8.848	ppbv	97
21) Allyl Chloride	4.002	41	672460	9.427	ppbv	95
22) trans-1,2-Dichloroethene	4.452	96	564234	10.085	ppbv	95
23) Vinyl Acetate	4.636	43	1292846	10.864	ppbv	98
24) 1,1-Dichloroethane	4.571	63	1143465	9.467	ppbv	100
25) Ethyl Acetate	5.211	43	2288632	9.624	ppbv	99
26) Hexane	5.218	57	1027247	9.298	ppbv	98
27) Carbon Disulfide	4.131	76	1364558	10.501	ppbv	99
28) Methyl tert-Butyl Ether	4.591	73	855186	9.615	ppbv	99
29) Chloroform	5.285	83	1766318	9.639	ppbv	98
30) Cyclohexane	6.610	84	888632	9.667	ppbv	98
31) cis-1,2-Dichloroethene	5.086	61	1085077	9.936	ppbv	99
32) 1,1,1-Trichloroethane	6.012	97	1771370	9.879	ppbv	99
34) 2-Butanone	4.793	43	1401532	10.130	ppbv	99
35) Carbon Tetrachloride	6.504	117	1811060	10.748	ppbv	98
36) Benzene	6.382	78	2200268	9.767	ppbv	99
37) 1,2-Dichloroethane	5.816	62	1341301	10.121	ppbv	98
38) Trichloroethene	7.301	130	883914	10.373	ppbv	95
39) 1,2-Dichloropropane	7.082	63	847482	9.772	ppbv	97
40) 1,4-Dioxane	7.298	88	263554	9.716	ppbv #	94
41) Tetrahydrofuran	5.565	42	807787	10.006	ppbv	100
42) Bromodichloromethane	7.259	83	1897550	10.295	ppbv	99
43) Methyl Methacrylate	7.481	69	889133	10.545	ppbv	97
44) 2,2,4-Trimethylpentane	7.336	57	3526405	9.729	ppbv	99
45) t-1,3-Dichloropropene	8.722	75	651314	12.041	ppbv	97

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	780673	11.249	ppbv	95
47) 1,1,2-Trichloroethane	8.909	97	932057	9.741	ppbv	96
48) Dibromochloromethane	9.719	129	1589913	10.747	ppbv	99
49) Bromoform	12.420	173	1307943	11.152	ppbv	99
50) 4-Methyl-2-Pentanone	8.189	43	2095609	10.425	ppbv	98
51) 2-Hexanone	9.558	43	1566967	11.024	ppbv	99
52) Tetrachloroethene	10.626	164	768760	10.538	ppbv	98
53) Toluene	9.234	91	2532498	10.349	ppbv	100
54) 1,2-Dibromoethane	10.021	107	1279605	10.759	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.520	131	1176570	9.575	ppbv	99
57) Chlorobenzene	11.536	112	1967790	9.196	ppbv	97
58) Ethyl Benzene	12.102	91	3470310	10.079	ppbv	100
59) m/p-Xylene	12.385	91	5974591m	19.441	ppbv	
60) o-Xylene	13.073	91	2868702	9.799	ppbv	99
61) Styrene	12.909	104	1476158	10.931	ppbv	98
62) Isopropylbenzene	14.040	105	4218265	9.613	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.057	83	2020390	9.855	ppbv	99
64) n-propylbenzene	14.928	120	1093863	9.635	ppbv	93
65) tert-Butylbenzene	16.101	119	3729686	9.601	ppbv	97
66) Benzyl Chloride	16.336	91	291937	10.623	ppbv	99
67) sec-Butylbenzene	16.648	105	5416106	9.489	ppbv	99
69) p-Isopropyltoluene	17.008	119	4521156	9.585	ppbv	99
70) n-Butylbenzene	17.896	91	5092715	9.682	ppbv	99
71) 2-Chlorotoluene	14.812	91	3322191	9.824	ppbv	99
72) 4-Ethyltoluene	15.201	105	3462222	10.089	ppbv	98
73) 1,3,5-Trimethylbenzene	15.362	105	3024535	9.999	ppbv	95
74) 1,2,4-Trimethylbenzene	16.117	105	3395063	9.626	ppbv	99
75) 1,3-Dichlorobenzene	16.343	146	1989320	9.303	ppbv	99
76) 1,4-Dichlorobenzene	16.484	146	1977227	9.430	ppbv	99
77) 1,2-Dichlorobenzene	17.156	146	1924567	9.413	ppbv	99
78) Hexachloro-1,3-Butadiene	22.648	225	1665790	8.675	ppbv	100
79) Naphthalene	21.394	128	3494198	11.710	ppbv	99
80) Naphthalene,2-methyl-	24.381	142	1544762	12.555	ppbv	98
81) 1,2,4-Trichlorobenzene	21.153	180	2042618	9.933	ppbv	99

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

