

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040430.D
 Acq On : 16 May 2023 8:55
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 16 09:52:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2023
 Supervised By : Mahesh Dadoda 05/17/2023

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

Internal Standards						
1) Bromochloromethane	5.189	49	1048619	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2663416	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2335070	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1914492	9.915	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	122834	0.650	ppbv	95
3) Chlorodifluoromethane	2.665	51	71537	0.522	ppbv	96
4) Chloromethane	2.803	50	44101	0.509	ppbv	94
5) Vinyl Chloride	2.912	62	32995	0.462	ppbv	96
6) Bromomethane	3.108	94	11402	0.484	ppbv	85
7) Chloroethane	3.195	64	14926m	0.552	ppbv	
8) Dichlorotetrafluoroethane	2.848	85	98158	0.531	ppbv	95
9) Propene	2.684	41	27079	0.500	ppbv	99
10) Heptane	7.578	43	54466m	0.443	ppbv	
11) Trichlorofluoromethane	3.555	101	90369	0.472	ppbv	90
12) 1,1,2-Trichlorotrifluo...	4.060	101	67667	0.505	ppbv	94
13) Ethanol	3.253	45	2631m	0.582	ppbv	
14) Bromoethene	3.359	108	25860	0.472	ppbv #	96
15) Acetone	3.475	43	69984	0.471	ppbv	92
16) 1,3-Butadiene	2.980	39	31292	0.509	ppbv	97
17) tert-Butyl alcohol	3.890	59	63355	0.465	ppbv	97
18) 1,1-Dichloroethene	3.874	96	30276	0.501	ppbv #	89
19) Isopropyl Alcohol	3.591	45	33747	0.498	ppbv #	91
20) Methylene Chloride	3.931	84	36071	0.608	ppbv	94
21) Allyl Chloride	3.993	41	38999	0.462	ppbv	90
22) trans-1,2-Dichloroethene	4.439	96	29456	0.488	ppbv	85
23) Vinyl Acetate	4.632	43	17982m	0.476	ppbv	
24) 1,1-Dichloroethane	4.558	63	62957	0.500	ppbv #	96
25) Ethyl Acetate	5.211	43	115160	0.461	ppbv	98
26) Hexane	5.208	57	48375	0.459	ppbv #	88
27) Carbon Disulfide	4.118	76	61788	0.453	ppbv	96
28) Methyl tert-Butyl Ether	4.597	73	51348m	0.472	ppbv	
29) Chloroform	5.272	83	94564	0.504	ppbv	100
30) Cyclohexane	6.603	84	30573	0.375	ppbv #	82
31) cis-1,2-Dichloroethene	5.076	61	48094	0.461	ppbv	92
32) 1,1,1-Trichloroethane	6.002	97	86889	0.476	ppbv	96
34) 2-Butanone	4.796	43	66344	0.462	ppbv	100
35) Carbon Tetrachloride	6.494	117	86419	0.461	ppbv	85
36) Benzene	6.372	78	95153	0.438	ppbv	97
37) 1,2-Dichloroethane	5.809	62	66968	0.469	ppbv	97
38) Trichloroethene	7.295	130	54443	0.440	ppbv	94
39) 1,2-Dichloropropane	7.076	63	41040m	0.480	ppbv	
40) 1,4-Dioxane	7.327	88	12582m	0.384	ppbv	
41) Tetrahydrofuran	5.581	42	32688m	0.416	ppbv	
42) Bromodichloromethane	7.246	83	89590	0.460	ppbv	98
43) Methyl Methacrylate	7.484	69	31154	0.386	ppbv	99
44) 2,2,4-Trimethylpentane	7.327	57	151707	0.418	ppbv #	89
45) t-1,3-Dichloropropene	8.713	75	23900m	0.332	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	33954m	0.338	ppbv	
47) 1,1,2-Trichloroethane	8.902	97	42885m	0.457	ppbv	
48) Dibromochloromethane	9.713	129	60059	0.398	ppbv	95
49) Bromoform	12.410	173	46642	0.396	ppbv	98
50) 4-Methyl-2-Pentanone	8.201	43	86067	0.395	ppbv	95
51) 2-Hexanone	9.581	43	56048m	0.348	ppbv	
52) Tetrachloroethene	10.623	164	31709m	0.467	ppbv	
53) Toluene	9.227	91	83608m	0.363	ppbv	
54) 1,2-Dibromoethane	10.012	107	41129m	0.433	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.510	131	50448	0.473	ppbv #	61
57) Chlorobenzene	11.526	112	93968	0.514	ppbv #	94
58) Ethyl Benzene	12.092	91	108866m	0.379	ppbv	
59) m/p-Xylene	12.378	91	219271m	0.830	ppbv	
60) o-Xylene	13.060	91	101786	0.401	ppbv	98
61) Styrene	12.905	104	40223m	0.317	ppbv	
62) Isopropylbenzene	14.034	105	163512	0.448	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.050	83	42865m	0.462	ppbv	
64) n-propylbenzene	14.925	120	38939	0.433	ppbv	85
65) tert-Butylbenzene	16.101	119	138275	0.430	ppbv	93
66) Benzyl Chloride	16.339	91	9149m	0.460	ppbv	
67) sec-Butylbenzene	16.645	105	204733	0.444	ppbv	100
69) p-Isopropyltoluene	17.005	119	153363m	0.426	ppbv	
70) n-Butylbenzene	17.902	91	175347	0.439	ppbv	94
71) 2-Chlorotoluene	14.806	91	115880	0.413	ppbv	100
72) 4-Ethyltoluene	15.204	105	114470m	0.409	ppbv	
73) 1,3,5-Trimethylbenzene	15.359	105	108667m	0.420	ppbv	
74) 1,2,4-Trimethylbenzene	16.114	105	131010	0.443	ppbv	90
75) 1,3-Dichlorobenzene	16.346	146	77560m	0.479	ppbv	
76) 1,4-Dichlorobenzene	16.484	146	76692m	0.480	ppbv	
77) 1,2-Dichlorobenzene	17.150	146	79324m	0.496	ppbv	
78) Hexachloro-1,3-Butadiene	22.648	225	61396m	0.479	ppbv	
79) Naphthalene	21.394	128	64602m	0.324	ppbv	
80) Naphthalene,2-methyl-	24.384	142	20616m	0.347	ppbv	
81) 1,2,4-Trichlorobenzene	21.143	180	44826m	0.366	ppbv	

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

