

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031523\
 Data File : VL040280.D
 Acq On : 15 Mar 2023 12:16
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/16/2023
 Supervised By : Mahesh Dadoda 03/16/2023

Quant Time: Mar 15 12:46:20 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

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

QLast Update : Tue Mar 14 04:52:39 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1085866	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2925212	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2778502	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2274124	9.953	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.726	85	484357	2.393	ppbv	99
3) Chlorodifluoromethane	2.671	51	299414	2.308	ppbv	99
4) Chloromethane	2.809	50	186758	2.292	ppbv	94
5) Vinyl Chloride	2.919	62	155844	2.380	ppbv	96
6) Bromomethane	3.115	94	53768	2.275	ppbv	95
7) Chloroethane	3.195	64	56458	2.174	ppbv #	85
8) Dichlorotetrafluoroethane	2.854	85	389079	2.231	ppbv	96
9) Propene	2.690	41	110733	2.094	ppbv	94
10) Heptane	7.581	43	275923	2.192	ppbv	99
11) Trichlorofluoromethane	3.562	101	423546	2.332	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.063	101	315508	2.355	ppbv	99
13) Ethanol	3.256	45	8252m	1.695	ppbv	
14) Bromoethene	3.362	108	116074	2.260	ppbv	95
15) Acetone	3.469	43	304052	2.326	ppbv	99
16) 1,3-Butadiene	2.983	39	135279	2.266	ppbv	95
17) tert-Butyl alcohol	3.880	59	251249	2.107	ppbv	100
18) 1,1-Dichloroethene	3.880	96	140891	2.421	ppbv	98
19) Isopropyl Alcohol	3.578	45	138204	2.224	ppbv	100
20) Methylene Chloride	3.932	84	119679	1.759	ppbv	94
21) Allyl Chloride	3.996	41	193660	2.415	ppbv	100
22) trans-1,2-Dichloroethene	4.446	96	132951	2.206	ppbv	91
23) Vinyl Acetate	4.623	43	73448	1.851	ppbv #	97
24) 1,1-Dichloroethane	4.565	63	288838	2.329	ppbv	98
25) Ethyl Acetate	5.205	43	545877	2.246	ppbv	99
26) Hexane	5.214	57	218016	2.090	ppbv	93
27) Carbon Disulfide	4.124	76	309335	2.337	ppbv	97
28) Methyl tert-Butyl Ether	4.591	73	257724	2.306	ppbv	100
29) Chloroform	5.276	83	394541	2.202	ppbv	97
30) Cyclohexane	6.603	84	172881	2.110	ppbv	92
31) cis-1,2-Dichloroethene	5.079	61	217538	2.195	ppbv	98
32) 1,1,1-Trichloroethane	6.005	97	392223	2.330	ppbv	97
34) 2-Butanone	4.790	43	325200	2.254	ppbv	100
35) Carbon Tetrachloride	6.494	117	404177	2.337	ppbv	99
36) Benzene	6.375	78	478807	2.103	ppbv	98
37) 1,2-Dichloroethane	5.809	62	304346	2.138	ppbv	100
38) Trichloroethene	7.298	130	272749	2.174	ppbv	97
39) 1,2-Dichloropropane	7.079	63	186225	2.103	ppbv	96
40) 1,4-Dioxane	7.301	88	69033	1.949	ppbv	79
41) Tetrahydrofuran	5.575	42	184976m	2.212	ppbv	
42) Bromodichloromethane	7.253	83	422814	2.152	ppbv	97
43) Methyl Methacrylate	7.481	69	177401	2.106	ppbv	96
44) 2,2,4-Trimethylpentane	7.330	57	807390	2.125	ppbv	99
45) t-1,3-Dichloropropene	8.719	75	146863	1.966	ppbv	99

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

QLast Update : Tue Mar 14 04:52:39 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	210543	2.023	ppbv	97
47) 1,1,2-Trichloroethane	8.906	97	197026	2.057	ppbv	91
48) Dibromochloromethane	9.716	129	326091	2.128	ppbv	99
49) Bromoform	12.413	173	245810	2.056	ppbv	99
50) 4-Methyl-2-Pentanone	8.195	43	487530	2.176	ppbv	100
51) 2-Hexanone	9.565	43	382817	2.222	ppbv #	98
52) Tetrachloroethene	10.626	164	149606	2.105	ppbv	94
53) Toluene	9.227	91	507048	2.080	ppbv	99
54) 1,2-Dibromoethane	10.015	107	207367	2.081	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.516	131	256442	2.199	ppbv #	1
57) Chlorobenzene	11.532	112	420597	2.072	ppbv	98
58) Ethyl Benzene	12.098	91	707167	2.095	ppbv	94
59) m/p-Xylene	12.378	91	1274309m	4.262	ppbv	
60) o-Xylene	13.066	91	609408	2.118	ppbv	99
61) Styrene	12.905	104	303972	2.012	ppbv	97
62) Isopropylbenzene	14.037	105	870915	2.109	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.060	83	222685	2.148	ppbv	98
64) n-propylbenzene	14.928	120	203556	1.992	ppbv	75
65) tert-Butylbenzene	16.098	119	767924	2.139	ppbv	95
66) Benzyl Chloride	16.339	91	42630m	1.785	ppbv	
67) sec-Butylbenzene	16.648	105	1104839	2.146	ppbv	99
69) p-Isopropyltoluene	17.005	119	869894	2.131	ppbv	97
70) n-Butylbenzene	17.899	91	969261	2.188	ppbv	97
71) 2-Chlorotoluene	14.809	91	669893	2.121	ppbv	98
72) 4-Ethyltoluene	15.204	105	680219	2.139	ppbv	99
73) 1,3,5-Trimethylbenzene	15.362	105	613068	2.072	ppbv	99
74) 1,2,4-Trimethylbenzene	16.118	105	703336	2.164	ppbv	94
75) 1,3-Dichlorobenzene	16.339	146	371597	2.089	ppbv	99
76) 1,4-Dichlorobenzene	16.487	146	356501	2.045	ppbv	98
77) 1,2-Dichlorobenzene	17.159	146	356284	2.016	ppbv	99
78) Hexachloro-1,3-Butadiene	22.651	225	255231	2.102	ppbv	98
79) Naphthalene	21.400	128	474186	2.597	ppbv	98
80) Naphthalene,2-methyl-	24.394	142	93227	1.795	ppbv	99
81) 1,2,4-Trichlorobenzene	21.153	180	256057	2.241	ppbv	96

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

