

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060523\
 Data File : VL040456.D
 Acq On : 5 Jun 2023 14:48
 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 06/06/2023
 Supervised By :Mahesh Dadoda 06/06/2023

Quant Time: Jun 06 05:57:15 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M

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

QLast Update : Tue Jun 06 05:55:55 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1079835	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2765098	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2588962	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.783 95 2069762 9.686 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.716	85	490529	2.087	ppbv	99
3) Chlorodifluoromethane	2.661	51	378521	2.140	ppbv	98
4) Chloromethane	2.800	50	146396	2.138	ppbv	97
5) Vinyl Chloride	2.909	62	153217	2.186	ppbv	92
6) Bromomethane	3.108	94	71925	2.012	ppbv	92
7) Chloroethane	3.185	64	50458	1.967	ppbv	92
8) Dichlorotetrafluoroethane	2.845	85	407175	2.194	ppbv	99
9) Propene	2.681	41	118876	2.180	ppbv	97
10) Heptane	7.581	43	266372	2.158	ppbv	99
11) Trichlorofluoromethane	3.552	101	404505	2.114	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.060	101	280877	2.101	ppbv	99
13) Ethanol	3.240	45	23935	2.256	ppbv	89
14) Bromoethene	3.356	108	116079	2.076	ppbv	97
15) Acetone	3.462	43	280506	2.154	ppbv	97
16) 1,3-Butadiene	2.973	39	135937	2.128	ppbv	98
17) tert-Butyl alcohol	3.873	59	213662	1.963	ppbv	99
18) 1,1-Dichloroethene	3.873	96	130032	2.183	ppbv	96
19) Isopropyl Alcohol	3.571	45	128141	2.041	ppbv #	96
20) Methylene Chloride	3.925	84	113615	2.014	ppbv	93
21) Allyl Chloride	3.989	41	153981	2.093	ppbv	96
22) trans-1,2-Dichloroethene	4.443	96	128299	2.099	ppbv	95
23) Vinyl Acetate	4.623	43	278016m	2.195	ppbv	
24) 1,1-Dichloroethane	4.558	63	260042	2.038	ppbv	99
25) Ethyl Acetate	5.205	43	517007	2.191	ppbv	99
26) Hexane	5.208	57	243483	2.179	ppbv	98
27) Carbon Disulfide	4.118	76	290735	2.080	ppbv	97
28) Methyl tert-Butyl Ether	4.584	73	188189	2.147	ppbv	97
29) Chloroform	5.272	83	399518	2.099	ppbv	99
30) Cyclohexane	6.600	84	175322	2.108	ppbv	96
31) cis-1,2-Dichloroethene	5.076	61	224986	2.104	ppbv	98
32) 1,1,1-Trichloroethane	6.002	97	404392	2.134	ppbv	100
34) 2-Butanone	4.783	43	282832	2.121	ppbv	99
35) Carbon Tetrachloride	6.491	117	409973	2.156	ppbv	96
36) Benzene	6.369	78	473346	2.152	ppbv	98
37) 1,2-Dichloroethane	5.803	62	306709	2.140	ppbv	99
38) Trichloroethene	7.295	130	183678	2.173	ppbv	96
39) 1,2-Dichloropropane	7.076	63	174089	2.028	ppbv	95
40) 1,4-Dioxane	7.304	88	50993m	2.171	ppbv	
41) Tetrahydrofuran	5.565	42	161036	2.224	ppbv	95
42) Bromodichloromethane	7.250	83	405799	2.057	ppbv	99
43) Methyl Methacrylate	7.481	69	166606	2.109	ppbv	98
44) 2,2,4-Trimethylpentane	7.327	57	776446	2.162	ppbv	99
45) t-1,3-Dichloropropene	8.716	75	118133m	2.020	ppbv	

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

QLast Update : Tue Jun 06 05:55:55 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	142509	2.018	ppbv	95
47) 1,1,2-Trichloroethane	8.905	97	192595	2.069	ppbv	94
48) Dibromochloromethane	9.712	129	311497	2.091	ppbv	99
49) Bromoform	12.417	173	232153	2.066	ppbv	99
50) 4-Methyl-2-Pentanone	8.192	43	379567	2.137	ppbv	99
51) 2-Hexanone	9.568	43	260710	2.118	ppbv #	98
52) Tetrachloroethene	10.622	164	154441	2.236	ppbv	96
53) Toluene	9.227	91	491519	2.122	ppbv	99
54) 1,2-Dibromoethane	10.012	107	265613m	2.169	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.516	131	248759	2.044	ppbv #	1
57) Chlorobenzene	11.536	112	399802	2.043	ppbv	99
58) Ethyl Benzene	12.095	91	668378	2.133	ppbv	96
59) m/p-Xylene	12.378	91	1245502m	4.333	ppbv	
60) o-Xylene	13.066	91	599694	2.193	ppbv	98
61) Styrene	12.905	104	250319	2.127	ppbv	99
62) Isopropylbenzene	14.040	105	871491	2.144	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.060	83	381468	2.126	ppbv	99
64) n-propylbenzene	14.928	120	210693	2.213	ppbv	83
65) tert-Butylbenzene	16.101	119	770954	2.193	ppbv	98
66) Benzyl Chloride	16.342	91	53649m	2.057	ppbv	
67) sec-Butylbenzene	16.651	105	1124504	2.211	ppbv	98
69) p-Isopropyltoluene	17.008	119	896461	2.219	ppbv	99
70) n-Butylbenzene	17.895	91	1004493	2.226	ppbv	98
71) 2-Chlorotoluene	14.812	91	657792	2.179	ppbv	98
72) 4-Ethyltoluene	15.204	105	651524	2.116	ppbv	99
73) 1,3,5-Trimethylbenzene	15.365	105	591847	2.174	ppbv	90
74) 1,2,4-Trimethylbenzene	16.114	105	692350	2.162	ppbv #	87
75) 1,3-Dichlorobenzene	16.342	146	380496	2.123	ppbv	99
76) 1,4-Dichlorobenzene	16.484	146	370111	2.085	ppbv	100
77) 1,2-Dichlorobenzene	17.156	146	344993	2.008	ppbv	94
78) Hexachloro-1,3-Butadiene	22.644	225	269510	2.052	ppbv	97
79) Naphthalene	21.400	128	454410m	2.474	ppbv	
80) Naphthalene,2-methyl-	24.390	142	111068m	2.150	ppbv	
81) 1,2,4-Trichlorobenzene	21.153	180	146509	1.151	ppbv #	12

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

