

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060523\
 Data File : VL040458.D
 Acq On : 5 Jun 2023 16:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/06/2023
 Supervised By : Mahesh Dadoda 06/06/2023

Quant Time: Jun 06 05:58:29 2023

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

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)

Internal Standards						
1) Bromochloromethane	5.192	49	1042211	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2632641	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2292614	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 1922382 10.160 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.716	85	117785	0.519	ppbv	97
3) Chlorodifluoromethane	2.664	51	89995	0.527	ppbv	98
4) Chloromethane	2.803	50	35700	0.540	ppbv	93
5) Vinyl Chloride	2.909	62	34956	0.517	ppbv	91
6) Bromomethane	3.111	94	17565	0.509	ppbv	98
7) Chloroethane	3.189	64	13665m	0.552	ppbv	
8) Dichlorotetrafluoroethane	2.841	85	91339	0.510	ppbv	95
9) Propene	2.684	41	29262	0.556	ppbv	95
10) Heptane	7.581	43	52574m	0.441	ppbv	
11) Trichlorofluoromethane	3.555	101	97816	0.530	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.060	101	64444	0.499	ppbv	92
13) Ethanol	3.243	45	4983m	0.487	ppbv	
14) Bromoethene	3.359	108	28044	0.520	ppbv #	96
15) Acetone	3.468	43	68101	0.542	ppbv #	89
16) 1,3-Butadiene	2.976	39	32222m	0.523	ppbv	
17) tert-Butyl alcohol	3.883	59	57189m	0.545	ppbv	
18) 1,1-Dichloroethene	3.873	96	27222	0.474	ppbv	85
19) Isopropyl Alcohol	3.581	45	32098	0.530	ppbv #	94
20) Methylene Chloride	3.928	84	30405	0.558	ppbv	97
21) Allyl Chloride	3.992	41	35594	0.501	ppbv	95
22) trans-1,2-Dichloroethene	4.439	96	28679	0.486	ppbv	90
23) Vinyl Acetate	4.626	43	56635	0.463	ppbv #	96
24) 1,1-Dichloroethane	4.558	63	62767	0.510	ppbv #	95
25) Ethyl Acetate	5.211	43	112452	0.494	ppbv	98
26) Hexane	5.208	57	53607	0.497	ppbv	92
27) Carbon Disulfide	4.118	76	62010	0.460	ppbv #	87
28) Methyl tert-Butyl Ether	4.590	73	41122	0.486	ppbv	92
29) Chloroform	5.269	83	94951	0.517	ppbv	97
30) Cyclohexane	6.606	84	47032m	0.586	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	48557	0.471	ppbv	90
32) 1,1,1-Trichloroethane	5.999	97	94666	0.517	ppbv	99
34) 2-Butanone	4.793	43	63518	0.500	ppbv	95
35) Carbon Tetrachloride	6.494	117	91528	0.506	ppbv	95
36) Benzene	6.375	78	99583m	0.475	ppbv	
37) 1,2-Dichloroethane	5.806	62	66485	0.487	ppbv	100
38) Trichloroethene	7.288	130	38696m	0.481	ppbv	
39) 1,2-Dichloropropane	7.079	63	42472m	0.520	ppbv	
40) 1,4-Dioxane	7.327	88	11600m	0.519	ppbv	
41) Tetrahydrofuran	5.581	42	32256m	0.468	ppbv	
42) Bromodichloromethane	7.249	83	87333	0.465	ppbv	95
43) Methyl Methacrylate	7.487	69	31287m	0.416	ppbv	
44) 2,2,4-Trimethylpentane	7.330	57	152937	0.447	ppbv	93
45) t-1,3-Dichloropropene	8.712	75	21112m	0.379	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	26789m	0.398	ppbv	
47) 1,1,2-Trichloroethane	8.899	97	44361m	0.500	ppbv	
48) Dibromochloromethane	9.719	129	60137	0.424	ppbv	98
49) Bromoform	12.416	173	44115m	0.412	ppbv	
50) 4-Methyl-2-Pentanone	8.211	43	74240m	0.439	ppbv	
51) 2-Hexanone	9.584	43	47349m	0.404	ppbv	
52) Tetrachloroethene	10.622	164	31642	0.481	ppbv	92
53) Toluene	9.227	91	88160	0.400	ppbv	96
54) 1,2-Dibromoethane	10.015	107	53357	0.458	ppbv	86
56) 1,1,1,2-Tetrachloroethane	11.510	131	55899m	0.519	ppbv	
57) Chlorobenzene	11.532	112	90715	0.523	ppbv #	93
58) Ethyl Benzene	12.105	91	113927m	0.410	ppbv	
59) m/p-Xylene	12.381	91	225083m	0.884	ppbv	
60) o-Xylene	13.069	91	101351	0.419	ppbv	98
61) Styrene	12.912	104	34218m	0.328	ppbv	
62) Isopropylbenzene	14.050	105	167115m	0.464	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.063	83	78260	0.492	ppbv	96
64) n-propylbenzene	14.931	120	41554m	0.493	ppbv	
65) tert-Butylbenzene	16.108	119	131351	0.422	ppbv	92
66) Benzyl Chloride	16.342	91	10937m	0.473	ppbv	
67) sec-Butylbenzene	16.654	105	201330	0.447	ppbv	98
69) p-Isopropyltoluene	17.014	119	149580m	0.418	ppbv	
70) n-Butylbenzene	17.902	91	169400m	0.424	ppbv	
71) 2-Chlorotoluene	14.809	91	113765	0.426	ppbv	99
72) 4-Ethyltoluene	15.207	105	113786	0.417	ppbv	96
73) 1,3,5-Trimethylbenzene	15.365	105	97847	0.406	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.121	105	127808	0.451	ppbv	94
75) 1,3-Dichlorobenzene	16.346	146	76165m	0.480	ppbv	
76) 1,4-Dichlorobenzene	16.493	146	74258m	0.472	ppbv	
77) 1,2-Dichlorobenzene	17.156	146	74744m	0.491	ppbv	
78) Hexachloro-1,3-Butadiene	22.648	225	62138m	0.534	ppbv	
79) Naphthalene	21.410	128	60996m	0.375	ppbv	
80) Naphthalene,2-methyl-	24.397	142	12437m	0.272	ppbv	
81) 1,2,4-Trichlorobenzene	21.156	180	45951m	0.408	ppbv	

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

Manual Integrations APPROVED

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
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Response via : Initial Calibration

