

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060523\
 Data File : VL040457.D
 Acq On : 5 Jun 2023 15:27
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

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

Quant Time: Jun 06 05:57:53 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	1068938	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2717884	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2439425	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 2006939 9.968 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.716	85	255745	1.099	ppbv	98
3) Chlorodifluoromethane	2.661	51	188976	1.079	ppbv	98
4) Chloromethane	2.800	50	70151	1.035	ppbv	92
5) Vinyl Chloride	2.906	62	72001	1.038	ppbv	97
6) Bromomethane	3.108	94	36665	1.036	ppbv	99
7) Chloroethane	3.185	64	25554	1.006	ppbv	90
8) Dichlorotetrafluoroethane	2.845	85	192067	1.045	ppbv	98
9) Propene	2.677	41	53302	0.987	ppbv	94
10) Heptane	7.584	43	117215	0.959	ppbv	97
11) Trichlorofluoromethane	3.555	101	200552	1.059	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.060	101	136792	1.034	ppbv	98
13) Ethanol	3.240	45	12114m	1.154	ppbv	
14) Bromoethene	3.359	108	54303	0.981	ppbv	97
15) Acetone	3.468	43	143483	1.113	ppbv	96
16) 1,3-Butadiene	2.973	39	58614	0.927	ppbv	87
17) tert-Butyl alcohol	3.877	59	114576	1.064	ppbv	98
18) 1,1-Dichloroethene	3.873	96	59406	1.007	ppbv	96
19) Isopropyl Alcohol	3.578	45	65755	1.058	ppbv #	96
20) Methylene Chloride	3.925	84	62133	1.113	ppbv	99
21) Allyl Chloride	3.989	41	73005	1.002	ppbv	95
22) trans-1,2-Dichloroethene	4.443	96	59912	0.990	ppbv	96
23) Vinyl Acetate	4.623	43	121642	0.970	ppbv	97
24) 1,1-Dichloroethane	4.558	63	135402	1.072	ppbv	98
25) Ethyl Acetate	5.208	43	242286	1.037	ppbv	98
26) Hexane	5.208	57	121623	1.099	ppbv	92
27) Carbon Disulfide	4.118	76	127739	0.923	ppbv #	92
28) Methyl tert-Butyl Ether	4.587	73	81410	0.938	ppbv	93
29) Chloroform	5.269	83	196452	1.042	ppbv	99
30) Cyclohexane	6.603	84	94441m	1.147	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	107937	1.020	ppbv	91
32) 1,1,1-Trichloroethane	6.005	97	197523	1.053	ppbv	98
34) 2-Butanone	4.793	43	130982	0.999	ppbv	95
35) Carbon Tetrachloride	6.491	117	188423	1.008	ppbv	91
36) Benzene	6.372	78	215719	0.998	ppbv	97
37) 1,2-Dichloroethane	5.806	62	137510	0.976	ppbv	99
38) Trichloroethene	7.295	130	86718	1.044	ppbv	97
39) 1,2-Dichloropropane	7.073	63	79226	0.939	ppbv	94
40) 1,4-Dioxane	7.323	88	24080m	1.043	ppbv	
41) Tetrahydrofuran	5.574	42	66738	0.938	ppbv	96
42) Bromodichloromethane	7.250	83	197108	1.016	ppbv	95
43) Methyl Methacrylate	7.484	69	69341	0.893	ppbv	90
44) 2,2,4-Trimethylpentane	7.327	57	365794m	1.036	ppbv	
45) t-1,3-Dichloropropene	8.716	75	45058	0.784	ppbv	92

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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	63282m	0.912	ppbv	
47) 1,1,2-Trichloroethane	8.902	97	89384	0.977	ppbv	96
48) Dibromochloromethane	9.716	129	137669	0.940	ppbv	96
49) Bromoform	12.413	173	101516	0.919	ppbv	99
50) 4-Methyl-2-Pentanone	8.198	43	163680	0.937	ppbv	99
51) 2-Hexanone	9.577	43	114867m	0.949	ppbv	
52) Tetrachloroethene	10.619	164	70998	1.046	ppbv	93
53) Toluene	9.230	91	217816	0.957	ppbv	98
54) 1,2-Dibromoethane	10.018	107	120382	1.000	ppbv	91
56) 1,1,1,2-Tetrachloroethane	11.516	131	119727	1.044	ppbv #	1
57) Chlorobenzene	11.536	112	186268	1.010	ppbv #	95
58) Ethyl Benzene	12.095	91	293942m	0.995	ppbv	
59) m/p-Xylene	12.381	91	550145m	2.031	ppbv	
60) o-Xylene	13.069	91	260028	1.009	ppbv	97
61) Styrene	12.912	104	96299	0.869	ppbv	98
62) Isopropylbenzene	14.040	105	385291	1.006	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.056	83	174871	1.034	ppbv	98
64) n-propylbenzene	14.928	120	98008m	1.093	ppbv	
65) tert-Butylbenzene	16.104	119	337700m	1.020	ppbv	
66) Benzyl Chloride	16.336	91	22539m	0.917	ppbv	
67) sec-Butylbenzene	16.648	105	484301	1.011	ppbv	97
69) p-Isopropyltoluene	17.008	119	381218	1.002	ppbv	97
70) n-Butylbenzene	17.902	91	427871	1.007	ppbv	97
71) 2-Chlorotoluene	14.815	91	274836	0.966	ppbv	100
72) 4-Ethyltoluene	15.204	105	278957	0.961	ppbv	98
73) 1,3,5-Trimethylbenzene	15.362	105	255790	0.997	ppbv	94
74) 1,2,4-Trimethylbenzene	16.117	105	307312	1.018	ppbv	94
75) 1,3-Dichlorobenzene	16.346	146	166640	0.987	ppbv	98
76) 1,4-Dichlorobenzene	16.481	146	155576	0.930	ppbv	90
77) 1,2-Dichlorobenzene	17.159	146	161985	1.000	ppbv	97
78) Hexachloro-1,3-Butadiene	22.644	225	128387	1.037	ppbv	98
79) Naphthalene	21.403	128	167503	0.968	ppbv	94
80) Naphthalene,2-methyl-	24.384	142	32574m	0.669	ppbv	
81) 1,2,4-Trichlorobenzene	21.159	180	112410m	0.937	ppbv	

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

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