

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
 Data File : VL040327.D
 Acq On : 10 Apr 2023 16:24
 Operator : SY/MD
 Sample : 02213-14 LOQ 0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2023

Quant Time: Apr 11 02:07:38 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 : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/11/2023
 Supervised By : Mahesh Dadoda 04/11/2023

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

Internal Standards						
1) Bromochloromethane	5.163	49	911031	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.626	114	2292067	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.442	117	2086023	10.000	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.754	95	1798447	10.295	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	96153	0.538	ppbv	98
3) Chlorodifluoromethane	2.645	51	66163	0.578	ppbv	99
4) Chloromethane	2.783	50	41636	0.589	ppbv	90
5) Vinyl Chloride	2.893	62	31875	0.556	ppbv	93
6) Bromomethane	3.092	94	11667m	0.587	ppbv	
7) Chloroethane	3.169	64	11894	0.541	ppbv	91
8) Dichlorotetrafluoroethane	2.828	85	87253	0.570	ppbv	97
9) Propene	2.668	41	22381	0.510	ppbv	100
10) Heptane	7.555	43	42826	0.406	ppbv	90
11) Trichlorofluoromethane	3.533	101	91227m	0.563	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.041	101	66550m	0.547	ppbv	
13) Ethanol	3.227	45	1769m	0.550	ppbv	
14) Bromoethene	3.340	108	23644m	0.521	ppbv	
15) Acetone	3.452	43	70223m	0.633	ppbv	
16) 1,3-Butadiene	2.957	39	23473	0.466	ppbv	96
17) tert-Butyl alcohol	3.867	59	55718	0.529	ppbv	95
18) 1,1-Dichloroethene	3.854	96	27316	0.524	ppbv	85
19) Isopropyl Alcohol	3.565	45	29498	0.555	ppbv #	83
20) Methylene Chloride	3.909	84	27213	0.583	ppbv #	86
21) Allyl Chloride	3.970	41	37449	0.521	ppbv	96
22) trans-1,2-Dichloroethene	4.420	96	27824m	0.524	ppbv	
23) Vinyl Acetate	4.603	43	15384m	0.499	ppbv	
24) 1,1-Dichloroethane	4.536	63	56833	0.516	ppbv	99
25) Ethyl Acetate	5.182	43	104314	0.502	ppbv	98
26) Hexane	5.192	57	38275m	0.449	ppbv	
27) Carbon Disulfide	4.099	76	51308	0.431	ppbv	97
28) Methyl tert-Butyl Ether	4.568	73	47083	0.481	ppbv	93
29) Chloroform	5.250	83	83137	0.552	ppbv	96
30) Cyclohexane	6.578	84	26027m	0.388	ppbv	
31) cis-1,2-Dichloroethene	5.047	61	40340m	0.486	ppbv	
32) 1,1,1-Trichloroethane	5.979	97	76529m	0.531	ppbv	
34) 2-Butanone	4.767	43	62878	0.556	ppbv	99
35) Carbon Tetrachloride	6.468	117	78648	0.547	ppbv	91
36) Benzene	6.343	78	81986	0.469	ppbv	96
37) 1,2-Dichloroethane	5.783	62	59260m	0.521	ppbv	
38) Trichloroethene	7.262	130	44788	0.469	ppbv	94
39) 1,2-Dichloropropane	7.044	63	34963m	0.510	ppbv	
40) 1,4-Dioxane	7.304	88	12924m	0.477	ppbv	
41) Tetrahydrofuran	5.558	42	27877m	0.427	ppbv	
42) Bromodichloromethane	7.221	83	76775	0.494	ppbv	99
43) Methyl Methacrylate	7.465	69	25654m	0.395	ppbv	
44) 2,2,4-Trimethylpentane	7.298	57	139458	0.479	ppbv	92
45) t-1,3-Dichloropropene	8.687	75	20411m	0.361	ppbv	

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2023
 Supervised By :Mahesh Dadoda 04/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.118	75	29169	0.363	ppbv	# 88
47) 1,1,2-Trichloroethane	8.873	97	37156m	0.508	ppbv	
48) Dibromochloromethane	9.687	129	53497m	0.445	ppbv	
49) Bromoform	12.391	173	40751m	0.451	ppbv	
50) 4-Methyl-2-Pentanone	8.179	43	74160	0.424	ppbv	98
51) 2-Hexanone	9.545	43	52817m	0.389	ppbv	
52) Tetrachloroethene	10.590	164	27240m	0.515	ppbv	
53) Toluene	9.201	91	71301	0.390	ppbv	97
54) 1,2-Dibromoethane	9.989	107	37726m	0.501	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.481	131	46862m	0.534	ppbv	
57) Chlorobenzene	11.507	112	82301m	0.555	ppbv	
58) Ethyl Benzene	12.066	91	95953m	0.404	ppbv	
59) m/p-Xylene	12.346	91	195963m	0.901	ppbv	
60) o-Xylene	13.040	91	87870	0.422	ppbv	97
61) Styrene	12.880	104	32674m	0.310	ppbv	
62) Isopropylbenzene	14.008	105	136496	0.461	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.024	83	43117	0.589	ppbv	96
64) n-propylbenzene	14.892	120	33197m	0.458	ppbv	
65) tert-Butylbenzene	16.069	119	117922m	0.462	ppbv	
66) Benzyl Chloride	16.307	91	6351m	0.383	ppbv	
67) sec-Butylbenzene	16.616	105	174058	0.477	ppbv	96
69) p-Isopropyltoluene	16.985	119	125792m	0.442	ppbv	
70) n-Butylbenzene	17.870	91	135648	0.433	ppbv	99
71) 2-Chlorotoluene	14.783	91	96149	0.426	ppbv	100
72) 4-Ethyltoluene	15.172	105	98900m	0.435	ppbv	
73) 1,3,5-Trimethylbenzene	15.333	105	94636	0.459	ppbv	89
74) 1,2,4-Trimethylbenzene	16.088	105	108944	0.464	ppbv	91
75) 1,3-Dichlorobenzene	16.304	146	65170m	0.512	ppbv	
76) 1,4-Dichlorobenzene	16.458	146	55961	0.461	ppbv	90
77) 1,2-Dichlorobenzene	17.130	146	61947m	0.507	ppbv	
78) Hexachloro-1,3-Butadiene	22.609	225	54714m	0.610	ppbv	
79) Naphthalene	21.374	128	52408m	0.377	ppbv	
80) Naphthalene,2-methyl-	24.371	142	15934m	0.453	ppbv	
81) 1,2,4-Trichlorobenzene	21.133	180	37102m	0.433	ppbv	

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

