

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
 Data File : VL040328.D
 Acq On : 10 Apr 2023 17:02
 Operator : SY/MD
 Sample : 02213-13 LOD 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2023

Quant Time: Apr 11 04:16:14 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 Apr 11 04:15:53 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	888050	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.626	114	2288126	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2080379	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.754	95	1788351	10.265	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	95746	0.550	ppbv	94
3) Chlorodifluoromethane	2.645	51	55401	0.496	ppbv	98
4) Chloromethane	2.784	50	37049	0.537	ppbv	94
5) Vinyl Chloride	2.890	62	27107	0.485	ppbv	100
6) Bromomethane	3.092	94	10597	0.547	ppbv	88
7) Chloroethane	3.163	64	11082m	0.517	ppbv	
8) Dichlorotetrafluoroethane	2.825	85	81031	0.543	ppbv	99
9) Propene	2.661	41	20738	0.485	ppbv	99
10) Heptane	7.562	43	40469m	0.393	ppbv	
11) Trichlorofluoromethane	3.533	101	80743	0.511	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.038	101	58872	0.497	ppbv	97
13) Ethanol	3.231	45	2827m	0.901	ppbv	
14) Bromoethene	3.340	108	21420	0.484	ppbv #	92
15) Acetone	3.456	43	65662	0.607	ppbv #	88
16) 1,3-Butadiene	2.954	39	21862	0.445	ppbv	96
17) tert-Butyl alcohol	3.864	59	46184	0.449	ppbv #	93
18) 1,1-Dichloroethene	3.854	96	25759	0.506	ppbv	87
19) Isopropyl Alcohol	3.568	45	24863	0.480	ppbv #	82
20) Methylene Chloride	3.906	84	25257	0.555	ppbv	94
21) Allyl Chloride	3.967	41	30735	0.439	ppbv	92
22) trans-1,2-Dichloroethene	4.420	96	25074m	0.484	ppbv	
23) Vinyl Acetate	4.607	43	12879	0.428	ppbv #	72
24) 1,1-Dichloroethane	4.536	63	54510	0.508	ppbv	99
25) Ethyl Acetate	5.185	43	94059	0.465	ppbv	98
26) Hexane	5.185	57	36060	0.434	ppbv	82
27) Carbon Disulfide	4.099	76	47915	0.413	ppbv #	93
28) Methyl tert-Butyl Ether	4.565	73	44383	0.465	ppbv	97
29) Chloroform	5.243	83	76244	0.520	ppbv	96
30) Cyclohexane	6.581	84	23961m	0.366	ppbv	
31) cis-1,2-Dichloroethene	5.050	61	37159	0.459	ppbv #	88
32) 1,1,1-Trichloroethane	5.970	97	72257m	0.514	ppbv	
34) 2-Butanone	4.767	43	57348m	0.508	ppbv	
35) Carbon Tetrachloride	6.472	117	71034m	0.495	ppbv	
36) Benzene	6.343	78	73815	0.423	ppbv	95
37) 1,2-Dichloroethane	5.780	62	57733	0.509	ppbv	100
38) Trichloroethene	7.266	130	36631	0.384	ppbv	97
39) 1,2-Dichloropropane	7.047	63	29911	0.437	ppbv	99
40) 1,4-Dioxane	7.298	88	10472	0.387	ppbv #	68
41) Tetrahydrofuran	5.549	42	23698m	0.364	ppbv	
42) Bromodichloromethane	7.221	83	62491	0.403	ppbv	96
43) Methyl Methacrylate	7.459	69	22072	0.341	ppbv	91
44) 2,2,4-Trimethylpentane	7.298	57	122010m	0.420	ppbv	
45) t-1,3-Dichloropropene	8.687	75	17530m	0.310	ppbv	

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Apr 11 04:15:53 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	24389	0.304	ppbv	#	95
47) 1,1,2-Trichloroethane	8.873	97	34773m	0.476	ppbv		
48) Dibromochloromethane	9.690	129	48813m	0.406	ppbv		
49) Bromoform	12.388	173	35239m	0.391	ppbv		
50) 4-Methyl-2-Pentanone	8.172	43	69771m	0.399	ppbv		
51) 2-Hexanone	9.561	43	39714m	0.293	ppbv		
52) Tetrachloroethene	10.594	164	24673m	0.468	ppbv		
53) Toluene	9.198	91	62566m	0.342	ppbv		
54) 1,2-Dibromoethane	9.992	107	33233m	0.442	ppbv		
56) 1,1,1,2-Tetrachloroethane	11.484	131	45869	0.524	ppbv	#	1
57) Chlorobenzene	11.497	112	73167m	0.494	ppbv		
58) Ethyl Benzene	12.069	91	84263	0.356	ppbv	#	87
59) m/p-Xylene	12.352	91	168654m	0.777	ppbv		
60) o-Xylene	13.034	91	78287m	0.377	ppbv		
61) Styrene	12.880	104	29022	0.276	ppbv		93
62) Isopropylbenzene	14.008	105	125092m	0.423	ppbv		
63) 1,1,2,2-Tetrachloroethane	13.028	83	38042m	0.521	ppbv		
64) n-propylbenzene	14.899	120	28717m	0.397	ppbv		
65) tert-Butylbenzene	16.072	119	98558	0.387	ppbv		89
66) Benzyl Chloride	16.317	91	7254m	0.438	ppbv		
67) sec-Butylbenzene	16.616	105	144462	0.397	ppbv		99
69) p-Isopropyltoluene	16.979	119	107900	0.381	ppbv		97
70) n-Butylbenzene	17.870	91	120852m	0.387	ppbv		
71) 2-Chlorotoluene	14.783	91	85602	0.381	ppbv		97
72) 4-Ethyltoluene	15.175	105	82839	0.365	ppbv	#	94
73) 1,3,5-Trimethylbenzene	15.333	105	79570m	0.387	ppbv		
74) 1,2,4-Trimethylbenzene	16.092	105	99162m	0.423	ppbv		
75) 1,3-Dichlorobenzene	16.310	146	56361m	0.444	ppbv		
76) 1,4-Dichlorobenzene	16.458	146	55404m	0.458	ppbv		
77) 1,2-Dichlorobenzene	17.130	146	58359m	0.478	ppbv		
78) Hexachloro-1,3-Butadiene	22.612	225	44506	0.498	ppbv		98
79) Naphthalene	21.371	128	45728m	0.330	ppbv		
80) Naphthalene,2-methyl-	24.374	142	15312m	0.436	ppbv		
81) 1,2,4-Trichlorobenzene	21.130	180	30624m	0.359	ppbv		

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

