

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029982.D
 Acq On : 08 Jul 2022 18:49
 Operator : JC/MD
 Sample : N3214-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2022

Quant Time: Jul 09 04:03:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 04:03:40 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

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

Internal Standards						
1) Bromochloromethane	4.904	128	30886	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	171236	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	150237	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	70648	28.052	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.500%		
60) 4-Bromofluorobenzene	11.085	95	80971	28.598	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.333%		
63) Toluene-d8	8.653	98	244360	29.996	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3878	1.836	ug/l	90
3) Chloromethane	1.288	50	4950	2.248	ug/l #	75
4) Vinyl Chloride	1.374	62	5375	2.154	ug/l	96
5) Bromomethane	1.605	94	2179	2.119	ug/l	88
6) Chloroethane	1.685	64	3924m	2.936	ug/l	
7) Trichlorofluoromethane	1.886	101	7443	2.353	ug/l	96
8) Diethyl Ether	2.136	74	3510	2.609	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.325	101	5057	2.374	ug/l	96
10) 1,1-Dichloroethene	2.319	96	5657	2.601	ug/l	90
11) Methyl Iodide	2.453	142	1640	0.909	ug/l	86
12) Methyl Acetate	2.709	43	9158	2.585	ug/l	92
13) Acrolein	2.245	56	4245	10.201	ug/l	96
14) Acrylonitrile	3.068	53	17833	11.697	ug/l	95
15) Acetone	2.392	58	5536	13.368	ug/l	70
16) Carbon Disulfide	2.514	76	12958	2.282	ug/l	97
17) Allyl chloride	2.660	41	8900	2.322	ug/l	90
18) Methylene Chloride	2.788	84	7441	2.936	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	6135	2.599	ug/l #	78
20) Diisopropyl ether	3.763	45	18003	2.345	ug/l #	89
21) 1,1-Dichloroethane	3.617	63	10294	2.490	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	6623	2.363	ug/l	96
23) tert-Butyl Alcohol	2.947	59	15832m	22.669	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	16480	2.349	ug/l	94
25) Chloroform	5.105	83	9753	2.367	ug/l	97
26) Cyclohexane	5.471	56	9144m	2.387	ug/l	
29) 1,1-Dichloropropene	5.702	75	7666	2.617	ug/l	76
30) 2-Butanone	4.568	43	25360	12.826	ug/l #	97
31) 2,2-Dichloropropane	4.489	77	5959m	2.128	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	7752	2.461	ug/l #	64
33) Carbon Tetrachloride	5.684	117	6755	2.553	ug/l	88
34) Benzene	6.044	78	23556	2.502	ug/l	97
35) Methacrylonitrile	4.934	41	5230m	2.613	ug/l	
36) 1,2-Dichloroethane	6.098	62	7387	2.578	ug/l	96
37) Trichloroethene	7.129	130	6913	2.746	ug/l	97
38) Methylcyclohexane	7.379	83	8973	2.361	ug/l #	69
39) 1,2-Dichloropropane	7.434	63	6387	2.665	ug/l	97
40) Dibromomethane	7.586	93	4283	2.637	ug/l	91
41) Bromodichloromethane	7.830	83	7298	2.515	ug/l	97
42) Vinyl Acetate	3.727	43	74770	11.825	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	10311m	2.769	ug/l	
44) Isopropyl Acetate	6.348	43	13574	2.399	ug/l	100
45) 1,4-Dioxane	7.677	88	3431m	51.657	ug/l	
46) Methyl methacrylate	7.702	41	6578	2.453	ug/l	94
47) n-amyl Acetate	10.848	43	10310	2.121	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	6828	2.129	ug/l	94
49) cis-1,3-Dichloropropene	8.372	75	7971	2.214	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	6016	2.500	ug/l	95
51) Ethyl methacrylate	9.116	69	8938	2.387	ug/l	99
52) 1,3-Dichloropropane	9.311	76	9774	2.525	ug/l	94
53) Dibromochloromethane	9.525	129	5141	2.308	ug/l	99
54) 1,2-Dibromoethane	9.616	107	5866	2.347	ug/l	93
55) 2-Chloroethyl vinyl ether	8.244	63	21728	11.256	ug/l	96
56) Bromoform	10.799	173	3462	2.220	ug/l	94
58) 4-Methyl-2-Pentanone	8.580	43	46271	12.469	ug/l	98
59) 2-Hexanone	9.433	43	34097	11.879	ug/l	96
61) Tetrachloroethene	9.281	164	5972	2.647	ug/l	94
62) Toluene	8.720	91	24855	2.487	ug/l	100
64) Chlorobenzene	10.079	112	14974	2.509	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	4892	2.351	ug/l	92
66) Ethyl Benzene	10.195	91	26134	2.461	ug/l	99
67) m/p-Xylenes	10.305	106	20255	4.915	ug/l	99
68) o-Xylene	10.640	106	9788	2.385	ug/l	93
69) Styrene	10.659	104	16248	2.392	ug/l	97
70) Isopropylbenzene	10.963	105	25082	2.427	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.213	83	9111	2.425	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	8036m	2.379	ug/l	
73) Bromobenzene	11.201	156	5895	2.379	ug/l	90
74) n-propylbenzene	11.305	91	27235	2.197	ug/l	96
75) 2-Chlorotoluene	11.366	91	18353	2.514	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	19752	2.277	ug/l	97
77) t-1,4-Dichloro-2-butene	11.024	75	2130	1.833	ug/l	84
78) 4-Chlorotoluene	11.457	91	18376	2.243	ug/l	94
79) tert-butylbenzene	11.719	119	20210	2.395	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	19048	2.136	ug/l	94
81) sec-Butylbenzene	11.890	105	24722	2.164	ug/l	98
82) p-Isopropyltoluene	12.012	119	18975	2.063	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	10916	2.277	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	10994	2.261	ug/l	98
85) n-Butylbenzene	12.335	91	16437	1.905	ug/l	98
86) Hexachloroethane	12.536	117	2751	1.800	ug/l	95
87) 1,2-Dichlorobenzene	12.341	146	11837	2.501	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1917	2.237	ug/l #	83
89) 1,2,4-Trichlorobenzene	13.591	180	6391	2.181	ug/l	99
90) Hexachlorobutadiene	13.731	225	2707	2.435	ug/l	94
91) Naphthalene	13.780	128	24672	2.112	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	6899	2.311	ug/l	94

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

