

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042865.D
 Acq On : 06 Aug 2024 12:35
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX080624

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2024
 Supervised By : Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 04:56:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	40136	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	247479	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	229155	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	108749	29.342	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.800%		
60) 4-Bromofluorobenzene	11.079	95	109765	29.360	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.867%		
63) Toluene-d8	8.647	98	309339	29.885	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.600%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	47729	20.222	ug/l	99
3) Chloromethane	1.301	50	45094	20.815	ug/l	99
4) Vinyl Chloride	1.374	62	46595	20.147	ug/l	96
5) Bromomethane	1.599	94	26198	18.586	ug/l	98
6) Chloroethane	1.666	64	27627	20.086	ug/l	93
7) Trichlorofluoromethane	1.874	101	78971	21.414	ug/l	97
8) Diethyl Ether	2.136	74	29419	20.297	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	52134	20.733	ug/l	99
10) 1,1-Dichloroethene	2.313	96	46721	19.452	ug/l	98
11) Methyl Iodide	2.441	142	43814	19.824	ug/l	94
12) Methyl Acetate	2.709	43	118855	22.637	ug/l	97
13) Acrolein	2.239	56	12114	79.794	ug/l	96
14) Acrylonitrile	3.069	53	163896	102.692	ug/l	99
15) Acetone	2.386	58	49915	96.466	ug/l	97
16) Carbon Disulfide	2.502	76	90763	18.160	ug/l	100
17) Allyl chloride	2.660	41	82949	21.342	ug/l	99
18) Methylene Chloride	2.788	84	58596	21.035	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	49131	20.087	ug/l	97
20) Diisopropyl ether	3.764	45	180397	21.249	ug/l	96
21) 1,1-Dichloroethane	3.605	63	98968	20.500	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	63114	20.563	ug/l	97
23) tert-Butyl Alcohol	2.989	59	69243	94.104	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	180591	20.774	ug/l	99
25) Chloroform	5.093	83	106346	20.358	ug/l	95
26) Cyclohexane	5.464	56	73879	19.399	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	64331	20.171	ug/l	99
30) 2-Butanone	4.562	43	239557	102.000	ug/l	99
31) 2,2-Dichloropropane	4.471	77	81236	21.799	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	91278	20.673	ug/l	98
33) Carbon Tetrachloride	5.666	117	76777	20.328	ug/l	97
34) Benzene	6.038	78	212979	20.859	ug/l	97
35) Methacrylonitrile	4.922	41	47700	21.497	ug/l	93
36) 1,2-Dichloroethane	6.086	62	77559	20.582	ug/l	100
37) Trichloroethene	7.123	130	51319	19.853	ug/l	94
38) Methylcyclohexane	7.379	83	79451	20.101	ug/l	99
39) 1,2-Dichloropropane	7.428	63	52626	20.218	ug/l	99
40) Dibromomethane	7.580	93	40235	20.473	ug/l	99
41) Bromodichloromethane	7.818	83	77975	20.008	ug/l	99
42) Vinyl Acetate	3.721	43	706669	102.879	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	83403	21.169	ug/l	97
44) Isopropyl Acetate	6.342	43	129558	20.432	ug/l	99
45) 1,4-Dioxane	7.665	88	29062m	437.799	ug/l	
46) Methyl methacrylate	7.696	41	62148	19.722	ug/l	97
47) n-amyl Acetate	10.842	43	109668	20.218	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	73561	19.690	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	82499	20.390	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	57206	21.342	ug/l	97
51) Ethyl methacrylate	9.116	69	88621	20.206	ug/l	99
52) 1,3-Dichloropropane	9.311	76	91996	20.914	ug/l	99
53) Dibromochloromethane	9.519	129	61872	19.835	ug/l	98
54) 1,2-Dibromoethane	9.610	107	58287	20.909	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	224119	110.654	ug/l	99
56) Bromoform	10.799	173	42535	19.022	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	456027	105.675	ug/l	100
59) 2-Hexanone	9.433	43	354825	104.027	ug/l	99
61) Tetrachloroethene	9.275	164	47663	20.950	ug/l	94
62) Toluene	8.720	91	232043	20.674	ug/l	100
64) Chlorobenzene	10.079	112	150714	20.981	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	53110	20.366	ug/l	97
66) Ethyl Benzene	10.195	91	255918	20.515	ug/l	97
67) m/p-Xylenes	10.299	106	195463	41.442	ug/l	99
68) o-Xylene	10.640	106	95344	20.507	ug/l	97
69) Styrene	10.653	104	162362	20.280	ug/l	99
70) Isopropylbenzene	10.963	105	258478	21.123	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	93939	21.285	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	75256m	20.875	ug/l	
73) Bromobenzene	11.195	156	63022	20.269	ug/l	98
74) n-propylbenzene	11.305	91	292328	20.421	ug/l	100
75) 2-Chlorotoluene	11.366	91	185560	21.238	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	213102	20.547	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	23500	18.334	ug/l	95
78) 4-Chlorotoluene	11.451	91	207887	20.747	ug/l	99
79) tert-butylbenzene	11.713	119	222242	20.883	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	221113	21.609	ug/l	98
81) sec-Butylbenzene	11.890	105	272091	20.860	ug/l	99
82) p-Isopropyltoluene	12.006	119	223441	20.456	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	120115	20.989	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	115192	20.021	ug/l	97
85) n-Butylbenzene	12.335	91	188351	19.131	ug/l	99
86) Hexachloroethane	12.536	117	37454	18.999	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	119137	20.898	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	19382	19.440	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	71920	19.390	ug/l	97
90) Hexachlorobutadiene	13.725	225	31856	19.875	ug/l	98
91) Naphthalene	13.774	128	252315	20.208	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	75602	20.184	ug/l	99

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

