

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032747.D
 Acq On : 11 Nov 2022 00:35
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Nov 11 04:56:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 04:46:19 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	11681	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	81475	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	89990	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34066	37.144	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 123.800%#			
60) 4-Bromofluorobenzene	11.079	95	50260	30.346	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.167%			
63) Toluene-d8	8.647	98	90295	21.335	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 71.133%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	22176	36.391	ug/l	98
3) Chloromethane	1.294	50	21642	35.165	ug/l	98
4) Vinyl Chloride	1.374	62	24502	31.389	ug/l	96
5) Bromomethane	1.611	94	21022	29.544	ug/l	95
6) Chloroethane	1.685	64	18590	27.934	ug/l	92
7) Trichlorofluoromethane	1.886	101	46747	28.986	ug/l	99
8) Diethyl Ether	2.130	74	14917	27.878	ug/l	70
9) 1,1,2-Trichlorotrifluo...	2.331	101	24694	31.090	ug/l	97
10) 1,1-Dichloroethene	2.319	96	23166	31.340	ug/l #	82
11) Methyl Iodide	2.453	142	22922	28.350	ug/l	99
12) Methyl Acetate	2.703	43	34778	37.692	ug/l	90
13) Acrolein	2.239	56	21909	227.187	ug/l	98
14) Acrylonitrile	3.068	53	60823	166.304	ug/l	99
15) Acetone	2.386	58	16370	166.663	ug/l	82
16) Carbon Disulfide	2.514	76	56100	33.202	ug/l	100
17) Allyl chloride	2.666	41	36015	37.059	ug/l	89
18) Methylene Chloride	2.788	84	26796	31.675	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	25167	29.960	ug/l #	83
20) Diisopropyl ether	3.763	45	80318	36.534	ug/l #	83
21) 1,1-Dichloroethane	3.611	63	46818	33.773	ug/l	94
22) cis-1,2-Dichloroethene	4.495	96	29271	29.119	ug/l	89
23) tert-Butyl Alcohol	2.983	59	22001	164.060	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	81129	31.807	ug/l #	90
25) Chloroform	5.092	83	50528	31.012	ug/l	99
26) Cyclohexane	5.470	56	39841	34.582	ug/l #	85
29) 1,1-Dichloropropene	5.696	75	36367	26.638	ug/l	96
30) 2-Butanone	4.562	43	84962	148.934	ug/l	90
31) 2,2-Dichloropropane	4.477	77	31057	23.483	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	45585	25.458	ug/l	95
33) Carbon Tetrachloride	5.684	117	39581	24.452	ug/l	97
34) Benzene	6.037	78	103048	25.869	ug/l #	94
35) Methacrylonitrile	4.928	41	18993	31.007	ug/l	90
36) 1,2-Dichloroethane	6.092	62	43136	29.445	ug/l #	93
37) Trichloroethene	7.129	130	28803	22.725	ug/l	90
38) Methylcyclohexane	7.379	83	40797	24.906	ug/l	88
39) 1,2-Dichloropropane	7.434	63	25779	27.547	ug/l	95
40) Dibromomethane	7.586	93	19910	25.250	ug/l	98
41) Bromodichloromethane	7.824	83	37039	25.541	ug/l	97
42) Vinyl Acetate	3.721	43	322707	153.446	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.714	43	34878	30.150	ug/l	#	88
44) Isopropyl Acetate	6.342	43	56116	30.233	ug/l		93
45) 1,4-Dioxane	7.690	88	11133	471.262	ug/l	#	84
46) Methyl methacrylate	7.696	41	28473	32.165	ug/l		86
47) n-amyl Acetate	10.841	43	50220	31.041	ug/l		94
48) t-1,3-Dichloropropene	8.982	75	37048	25.661	ug/l		98
49) cis-1,3-Dichloropropene	8.366	75	39725	25.356	ug/l	#	87
50) 1,1,2-Trichloroethane	9.153	97	26534	23.654	ug/l		91
51) Ethyl methacrylate	9.116	69	39929	26.483	ug/l		85
52) 1,3-Dichloropropane	9.311	76	45114	25.693	ug/l		98
53) Dibromochloromethane	9.525	129	28319	22.559	ug/l		99
54) 1,2-Dibromoethane	9.610	107	28566	23.075	ug/l		96
55) 2-Chloroethyl vinyl ether	8.244	63	97312	133.235	ug/l	#	93
56) Bromoform	10.799	173	19952	21.685	ug/l		98
58) 4-Methyl-2-Pentanone	8.574	43	180909	138.544	ug/l	#	91
59) 2-Hexanone	9.433	43	133941	137.524	ug/l		90
61) Tetrachloroethene	9.275	164	24669	17.539	ug/l		94
62) Toluene	8.720	91	116315	22.129	ug/l		99
64) Chlorobenzene	10.079	112	71713	20.405	ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	27362	20.354	ug/l		99
66) Ethyl Benzene	10.195	91	130303	22.083	ug/l		97
67) m/p-Xylenes	10.305	106	100845	41.723	ug/l		87
68) o-Xylene	10.640	106	49579	20.837	ug/l		90
69) Styrene	10.659	104	82400	21.240	ug/l		95
70) Isopropylbenzene	10.963	105	132849	21.417	ug/l		96
71) 1,1,2,2-Tetrachloroethane	11.213	83	40936	22.794	ug/l		96
72) 1,2,3-Trichloropropane	11.238	75	36663m	23.472	ug/l		
73) Bromobenzene	11.201	156	32253	19.618	ug/l		90
74) n-propylbenzene	11.305	91	150606	21.949	ug/l		95
75) 2-Chlorotoluene	11.366	91	91648	22.169	ug/l		93
76) 1,3,5-Trimethylbenzene	11.451	105	112745	21.575	ug/l		96
77) t-1,4-Dichloro-2-butene	11.018	75	10018	21.659	ug/l		91
78) 4-Chlorotoluene	11.457	91	104912	22.261	ug/l		93
79) tert-butylbenzene	11.713	119	108177	20.742	ug/l		94
80) 1,2,4-Trimethylbenzene	11.750	105	111855	21.585	ug/l		93
81) sec-Butylbenzene	11.890	105	130692	20.508	ug/l		95
82) p-Isopropyltoluene	12.012	119	110394	19.879	ug/l		95
83) 1,3-Dichlorobenzene	11.969	146	59777	19.287	ug/l		98
84) 1,4-Dichlorobenzene	12.042	146	59777	18.949	ug/l		98
85) n-Butylbenzene	12.335	91	92825	21.178	ug/l		94
86) Hexachloroethane	12.536	117	17279	19.501	ug/l		100
87) 1,2-Dichlorobenzene	12.335	146	59095	19.176	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8117	22.473	ug/l	#	83
89) 1,2,4-Trichlorobenzene	13.591	180	35488	17.753	ug/l		99
90) Hexachlorobutadiene	13.725	225	14286	17.718	ug/l		99
91) Naphthalene	13.774	128	122264	19.214	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	36759	18.457	ug/l		96

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

