

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032749.D
 Acq On : 11 Nov 2022 01:45
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

Quant Time: Nov 11 04:56:59 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	4.897	128	12825	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	91639	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	102771	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	37904	37.643	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 125.467%#		
60) 4-Bromofluorobenzene	11.079	95	59941	31.690	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 105.633%		
63) Toluene-d8	8.652	98	102791	21.267	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 70.900%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	112619	168.325	ug/l	99
3) Chloromethane	1.294	50	108781	160.985	ug/l	98
4) Vinyl Chloride	1.373	62	123745	144.385	ug/l	99
5) Bromomethane	1.611	94	106362	136.146	ug/l	98
6) Chloroethane	1.684	64	104373	142.845	ug/l	89
7) Trichlorofluoromethane	1.885	101	240049	135.567	ug/l	100
8) Diethyl Ether	2.135	74	77741	132.329	ug/l	74
9) 1,1,2-Trichlorotrifluo...	2.330	101	127054	145.692	ug/l	97
10) 1,1-Dichloroethene	2.318	96	121618	149.856	ug/l	87
11) Methyl Iodide	2.452	142	150702	169.764	ug/l	99
12) Methyl Acetate	2.702	43	183276	180.915	ug/l #	88
13) Acrolein	2.239	56	121943	1151.703	ug/l	98
14) Acrylonitrile	3.068	53	329696	821.053	ug/l	99
15) Acetone	2.385	58	84308	781.776	ug/l	77
16) Carbon Disulfide	2.513	76	313158	168.807	ug/l	99
17) Allyl chloride	2.666	41	199166	186.658	ug/l	91
18) Methylene Chloride	2.788	84	135278	145.647	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	136838	148.366	ug/l #	83
20) Diisopropyl ether	3.763	45	450351	186.579	ug/l #	81
21) 1,1-Dichloroethane	3.611	63	247549	162.646	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	159846	144.829	ug/l	89
23) tert-Butyl Alcohol	2.989	59	111007	753.933	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	451887	161.360	ug/l #	91
25) Chloroform	5.098	83	277147	154.926	ug/l	100
26) Cyclohexane	5.470	56	219601	173.612	ug/l #	84
29) 1,1-Dichloropropene	5.696	75	199726	130.071	ug/l	96
30) 2-Butanone	4.562	43	464607	724.103	ug/l	91
31) 2,2-Dichloropropane	4.476	77	174753	117.479	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	257236	127.728	ug/l	95
33) Carbon Tetrachloride	5.677	117	226703	124.515	ug/l	98
34) Benzene	6.037	78	561111	125.236	ug/l #	96
35) Methacrylonitrile	4.921	41	109269	158.600	ug/l	93
36) 1,2-Dichloroethane	6.086	62	229308	139.165	ug/l #	93
37) Trichloroethene	7.128	130	155004	108.733	ug/l	89
38) Methylcyclohexane	7.384	83	227113	123.270	ug/l	89
39) 1,2-Dichloropropane	7.433	63	141862	134.776	ug/l	97
40) Dibromomethane	7.580	93	108469	122.304	ug/l	98
41) Bromodichloromethane	7.823	83	215051	131.844	ug/l	97
42) Vinyl Acetate	3.727	43	1849407	781.851	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	193753	148.912	ug/l #	88
44) Isopropyl Acetate	6.342	43	324301	155.340	ug/l	96
45) 1,4-Dioxane	7.701	88	59939	2255.814	ug/l #	85
46) Methyl methacrylate	7.695	41	163340	164.056	ug/l	85
47) n-amyl Acetate	10.841	43	298514	164.045	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	228429	140.673	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	238911	135.581	ug/l #	91
50) 1,1,2-Trichloroethane	9.152	97	152372	120.769	ug/l	96
51) Ethyl methacrylate	9.116	69	232453	137.075	ug/l	80
52) 1,3-Dichloropropane	9.311	76	247154	125.147	ug/l	100
53) Dibromochloromethane	9.524	129	174871	123.854	ug/l	98
54) 1,2-Dibromoethane	9.610	107	168021	120.673	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	554928	675.512	ug/l	93
56) Bromoform	10.798	173	127895	123.585	ug/l	100
58) 4-Methyl-2-Pentanone	8.573	43	981192	657.971	ug/l	92
59) 2-Hexanone	9.433	43	728857	655.286	ug/l	92
61) Tetrachloroethene	9.274	164	136371	84.898	ug/l	92
62) Toluene	8.720	91	651163	108.478	ug/l	98
64) Chlorobenzene	10.079	112	408270	101.721	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	156761	102.111	ug/l	100
66) Ethyl Benzene	10.195	91	739445	109.733	ug/l	97
67) m/p-Xylenes	10.305	106	580558	210.323	ug/l	90
68) o-Xylene	10.646	106	283894	104.476	ug/l	91
69) Styrene	10.658	104	482699	108.949	ug/l	95
70) Isopropylbenzene	10.963	105	761395	107.480	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	226721	110.544	ug/l	98
72) 1,2,3-Trichloropropane	11.237	75	204398m	114.583	ug/l	
73) Bromobenzene	11.201	156	183865	97.930	ug/l	87
74) n-propylbenzene	11.304	91	879233	112.204	ug/l	95
75) 2-Chlorotoluene	11.365	91	526101	111.435	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	648199	108.616	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	68835	130.314	ug/l	99
78) 4-Chlorotoluene	11.457	91	611797	113.673	ug/l	93
79) tert-butylbenzene	11.719	119	637073	106.959	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	631351	106.682	ug/l	95
81) sec-Butylbenzene	11.890	105	766194	105.278	ug/l	96
82) p-Isopropyltoluene	12.012	119	649186	102.363	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	342946	96.892	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	345518	95.905	ug/l	99
85) n-Butylbenzene	12.335	91	562013	112.275	ug/l	95
86) Hexachloroethane	12.542	117	111590	110.279	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	334991	95.184	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.944	75	51816	125.619	ug/l #	80
89) 1,2,4-Trichlorobenzene	13.591	180	210908	92.385	ug/l	99
90) Hexachlorobutadiene	13.725	225	82179	89.244	ug/l	100
91) Naphthalene	13.774	128	704637	96.964	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	208262	91.566	ug/l	97

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

