

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
 Data File : VX042563.D
 Acq On : 25 Jul 2024 13:07
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/26/2024
 Supervised By : Mahesh Dadoda 07/26/2024

Quant Time: Jul 26 01:36:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	20626	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	115108	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107702	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44419	30.065	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	11.079	95	49730	29.677	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.933%			
63) Toluene-d8	8.646	98	138973	29.704	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	24214	19.585	ug/l	99
3) Chloromethane	1.300	50	21170	16.376	ug/l	98
4) Vinyl Chloride	1.373	62	19639	15.292	ug/l	98
5) Bromomethane	1.599	94	11242	17.438	ug/l	97
6) Chloroethane	1.666	64	11782	21.286	ug/l	96
7) Trichlorofluoromethane	1.873	101	30301	18.857	ug/l	100
8) Diethyl Ether	2.135	74	11950	17.733	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.318	101	23229	18.562	ug/l	99
10) 1,1-Dichloroethene	2.312	96	22180	18.443	ug/l	97
11) Methyl Iodide	2.446	142	26119	19.209	ug/l	99
12) Methyl Acetate	2.708	43	42542	21.523	ug/l	98
13) Acrolein	2.239	56	14057	56.614	ug/l	95
14) Acrylonitrile	3.068	53	69964	94.257	ug/l	98
15) Acetone	2.391	58	18280	82.794	ug/l	94
16) Carbon Disulfide	2.501	76	41950	17.645	ug/l	99
17) Allyl chloride	2.660	41	34321	17.936	ug/l	94
18) Methylene Chloride	2.788	84	25613	18.649	ug/l	93
19) trans-1,2-Dichloroethene	3.086	96	22251	18.317	ug/l	100
20) Diisopropyl ether	3.769	45	73524	18.234	ug/l	97
21) 1,1-Dichloroethane	3.605	63	42973	18.774	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	28891	18.992	ug/l	100
23) tert-Butyl Alcohol	2.989	59	27835	98.398	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	78422	19.537	ug/l	99
25) Chloroform	5.092	83	46160	19.512	ug/l	99
26) Cyclohexane	5.464	56	32363	17.072	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	28160	18.761	ug/l	96
30) 2-Butanone	4.568	43	93671	93.471	ug/l	99
31) 2,2-Dichloropropane	4.470	77	30469	17.657	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	39680	20.467	ug/l	100
33) Carbon Tetrachloride	5.677	117	34012	20.088	ug/l	95
34) Benzene	6.037	78	95266	19.329	ug/l	100
35) Methacrylonitrile	4.934	41	20276	20.503	ug/l	96
36) 1,2-Dichloroethane	6.092	62	32702	20.458	ug/l	98
37) Trichloroethene	7.122	130	26369	19.895	ug/l	100
38) Methylcyclohexane	7.378	83	34141	17.689	ug/l	99
39) 1,2-Dichloropropane	7.433	63	23350	19.273	ug/l	98
40) Dibromomethane	7.579	93	17670	20.205	ug/l	99
41) Bromodichloromethane	7.823	83	32798	19.996	ug/l	97
42) Vinyl Acetate	3.727	43	298584	92.091	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	35110	19.741	ug/l #	82
44) Isopropyl Acetate	6.348	43	52969	18.959	ug/l	98
45) 1,4-Dioxane	7.671	88	9416	300.831	ug/l #	90
46) Methyl methacrylate	7.695	41	25322	18.598	ug/l	96
47) n-amyl Acetate	10.841	43	44756	18.029	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	30468	18.633	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	34532	18.789	ug/l	98
50) 1,1,2-Trichloroethane	9.152	97	26242	20.462	ug/l	98
51) Ethyl methacrylate	9.116	69	38146	19.020	ug/l	98
52) 1,3-Dichloropropane	9.311	76	41282	19.816	ug/l	100
53) Dibromochloromethane	9.524	129	28712	20.373	ug/l	98
54) 1,2-Dibromoethane	9.610	107	26923	20.185	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	91428	94.051	ug/l	99
56) Bromoform	10.798	173	22376	19.701	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	185235	97.588	ug/l	100
59) 2-Hexanone	9.433	43	142071	95.562	ug/l	100
61) Tetrachloroethene	9.274	164	25960	19.869	ug/l	98
62) Toluene	8.720	91	105343	19.564	ug/l	99
64) Chlorobenzene	10.079	112	70178	19.313	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	25911	19.816	ug/l	98
66) Ethyl Benzene	10.195	91	112522	19.176	ug/l	99
67) m/p-Xylenes	10.298	106	92374	39.375	ug/l	97
68) o-Xylene	10.640	106	45253	19.382	ug/l	100
69) Styrene	10.658	104	75778	19.298	ug/l	98
70) Isopropylbenzene	10.963	105	117154	19.680	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	41203	20.114	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	35321m	21.716	ug/l	
73) Bromobenzene	11.201	156	34412	20.228	ug/l	97
74) n-propylbenzene	11.304	91	124949	19.000	ug/l	99
75) 2-Chlorotoluene	11.365	91	81070	19.602	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	97947	19.695	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9733	16.316	ug/l	99
78) 4-Chlorotoluene	11.457	91	87446	18.981	ug/l	99
79) tert-butylbenzene	11.713	119	104981	19.774	ug/l	99
80) 1,2,4-Trimethylbenzene	11.749	105	98067	19.597	ug/l	99
81) sec-Butylbenzene	11.890	105	119092	18.984	ug/l	100
82) p-Isopropyltoluene	12.006	119	105353	19.380	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	58978	19.301	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	59320	19.544	ug/l	99
85) n-Butylbenzene	12.335	91	75248	17.625	ug/l	100
86) Hexachloroethane	12.536	117	17019	18.411	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	60775	19.677	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	8333	19.856	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	38618	18.469	ug/l	100
90) Hexachlorobutadiene	13.725	225	19557	18.847	ug/l	96
91) Naphthalene	13.773	128	118088	18.939	ug/l	100
92) 1,2,3-Trichlorobenzene	13.962	180	41010	19.041	ug/l	98

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

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