

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018941.D
 Acq On : 15 Oct 2020 18:44
 Operator : JC/SP
 Sample : L4214-08 5.0PPB L00
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2020

Manual Integrations
 APPROVED

apatel
 10/16/2020 2:11:39 PM

Quant Time: Oct 16 02:47:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 15:32:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	47874	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	273634	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	240901	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	96420	31.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.23%
60) 4-Bromofluorobenzene	11.12	95	109751	29.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.53%
63) Toluene-d8	8.70	98	324357	30.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	11291	4.975 ug/l	98
3) Chloromethane	1.32	50	13191	5.138 ug/l	100
4) Vinyl Chloride	1.39	62	16934	5.375 ug/l	98
5) Bromomethane	1.62	94	15845	8.493 ug/l	94
6) Chloroethane	1.71	64	11247	5.176 ug/l	97
7) Trichlorofluoromethane	1.92	101	26362	5.315 ug/l	96
8) Diethyl Ether	2.17	74	10643	5.452 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	14052	5.096 ug/l	99
10) 1,1-Dichloroethene	2.35	96	15075	5.260 ug/l	97
11) Methyl Iodide	2.49	142	12793	3.759 ug/l	99
12) Methyl Acetate	2.75	43	14804	5.267 ug/l	99
13) Acrolein	2.27	56	14758	27.461 ug/l	95
14) Acrylonitrile	3.12	53	34899	26.691 ug/l	98
15) Acetone	2.42	58	10606	24.099 ug/l	93
16) Carbon Disulfide	2.55	76	36860	5.244 ug/l	99
17) Allyl chloride	2.71	41	19667	5.288 ug/l	96
18) Methylene Chloride	2.84	84	16166	5.597 ug/l	95
19) trans-1,2-Dichloroethene	3.14	96	15046	5.213 ug/l	95
20) Diisopropyl ether	3.83	45	36060	5.225 ug/l #	84
21) 1,1-Dichloroethane	3.67	63	24770	5.251 ug/l	97
22) cis-1,2-Dichloroethene	4.56	96	17466	5.344 ug/l	95
23) tert-Butyl Alcohol	3.01	59	21129	29.025 ug/l	100
24) Methyl tert-Butyl Ether	3.17	73	41899	5.294 ug/l	96
25) Chloroform	5.18	83	26770	5.346 ug/l	94
26) Cyclohexane	5.55	56	19411	5.112 ug/l #	97
29) 1,1-Dichloropropene	5.77	75	19882	5.011 ug/l	99
30) 2-Butanone	4.64	43	51742	26.172 ug/l	99
31) 2,2-Dichloropropane	4.55	77	23759m	5.084 ug/l	
32) 1,1,1-Trichloroethane	5.46	97	24355	5.058 ug/l #	90
33) Carbon Tetrachloride	5.76	117	22285	5.050 ug/l	96
34) Benzene	6.11	78	59783	5.085 ug/l	100
35) Methacrylonitrile	5.00	41	10103	4.938 ug/l	98
36) 1,2-Dichloroethane	6.16	62	19815	5.127 ug/l	100
37) Trichloroethene	7.19	130	16490	4.779 ug/l	93
38) Methylcyclohexane	7.44	83	21812	4.822 ug/l	99
39) 1,2-Dichloropropane	7.49	63	14782	5.140 ug/l	98
40) Dibromomethane	7.64	93	10753	5.091 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	21586	5.020	ug/l	99
42) Vinyl Acetate	3.79	43	176060	24.863	ug/l	100
43) Ethyl Acetate	4.79	43	18978	4.638	ug/l	98
44) Isopropyl Acetate	6.42	43	33788	5.142	ug/l #	100
45) 1,4-Dioxane	7.72	88	7058	100.651	ug/l	96
46) Methyl methacrylate	7.75	41	15588	5.103	ug/l	100
47) n-amyl Acetate	10.88	43	27405	4.993	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	24557	5.002	ug/l	94
49) cis-1,3-Dichloropropene	8.41	75	26172	5.013	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	15506	5.116	ug/l	96
51) Ethyl methacrylate	9.16	69	23983	5.027	ug/l	96
52) 1,3-Dichloropropane	9.35	76	25794	5.157	ug/l	97
53) Dibromochloromethane	9.57	129	17767	4.928	ug/l	100
54) 1,2-Dibromoethane	9.65	107	17318	5.198	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	63488	25.228	ug/l	98
56) Bromoform	10.84	173	13171	4.732	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	100837	26.231	ug/l	99
59) 2-Hexanone	9.47	43	76573	26.015	ug/l	100
61) Tetrachloroethene	9.32	164	14269	4.817	ug/l	92
62) Toluene	8.76	91	66245	5.132	ug/l	100
64) Chlorobenzene	10.12	112	41908	5.104	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	16228	5.092	ug/l	97
66) Ethyl Benzene	10.24	91	72298	5.054	ug/l	98
67) m/p-Xylenes	10.34	106	55592	9.919	ug/l	98
68) o-Xylene	10.68	106	26661	5.030	ug/l	99
69) Styrene	10.69	104	43583	4.783	ug/l	98
70) Isopropylbenzene	11.00	105	71022	5.043	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	21542	4.911	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	20420m	4.982	ug/l	
73) Bromobenzene	11.24	156	17366	4.789	ug/l	95
74) n-propylbenzene	11.34	91	77637	4.840	ug/l	99
75) 2-Chlorotoluene	11.40	91	45249	4.880	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	57139	4.845	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	8492	4.786	ug/l	93
78) 4-Chlorotoluene	11.49	91	51493	4.716	ug/l	100
79) tert-butylbenzene	11.76	119	58291	4.880	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	56548	4.812	ug/l	100
81) sec-Butylbenzene	11.93	105	65950	4.815	ug/l	98
82) p-Isopropyltoluene	12.05	119	60262	4.719	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	30597	4.743	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	30355	4.668	ug/l	99
85) n-Butylbenzene	12.37	91	50417	4.412	ug/l	99
86) Hexachloroethane	12.58	117	10704	4.941	ug/l	94
87) 1,2-Dichlorobenzene	12.37	146	29341	4.698	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	5397	5.082	ug/l	92
89) 1,2,4-Trichlorobenzene	13.63	180	18940	4.153	ug/l	99
90) Hexachlorobutadiene	13.77	225	8124	4.265	ug/l	98
91) Naphthalene	13.82	128	66933	4.501	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	19191	4.316	ug/l	99

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

