

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018940.D
 Acq On : 15 Oct 2020 18:21
 Operator : JC/SP
 Sample : L4214-07 2.5PPB LOD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations
 APPROVED

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

Quant Time: Oct 16 02:45:43 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	47763	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	268249	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	234342	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	95460	31.33	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.43%
60) 4-Bromofluorobenzene	11.12	95	104166	28.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.17%
63) Toluene-d8	8.70	98	317728	31.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	5444	2.404 ug/l	96
3) Chloromethane	1.31	50	6095	2.380 ug/l	94
4) Vinyl Chloride	1.39	62	8498	2.704 ug/l	99
5) Bromomethane	1.63	94	7609	4.088 ug/l	98
6) Chloroethane	1.72	64	5601	2.584 ug/l	95
7) Trichlorofluoromethane	1.92	101	12439	2.514 ug/l	97
8) Diethyl Ether	2.17	74	4834	2.482 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	6759	2.457 ug/l	93
10) 1,1-Dichloroethene	2.36	96	7101	2.483 ug/l	98
11) Methyl Iodide	2.49	142	6056	1.784 ug/l	99
12) Methyl Acetate	2.75	43	7260	2.589 ug/l	94
13) Acrolein	2.28	56	6404	11.944 ug/l	89
14) Acrylonitrile	3.12	53	16817	12.891 ug/l	99
15) Acetone	2.42	58	5431	12.369 ug/l	83
16) Carbon Disulfide	2.55	76	18214	2.597 ug/l	97
17) Allyl chloride	2.71	41	8931	2.407 ug/l	97
18) Methylene Chloride	2.83	84	8359	2.901 ug/l	94
19) trans-1,2-Dichloroethene	3.14	96	6907	2.398 ug/l	96
20) Diisopropyl ether	3.83	45	16789	2.438 ug/l #	88
21) 1,1-Dichloroethane	3.67	63	11695	2.485 ug/l	100
22) cis-1,2-Dichloroethene	4.56	96	8626	2.646 ug/l	93
23) tert-Butyl Alcohol	3.02	59	10172	14.006 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	19526	2.473 ug/l	93
25) Chloroform	5.18	83	12546	2.512 ug/l	97
26) Cyclohexane	5.55	56	8929	2.357 ug/l #	98
29) 1,1-Dichloropropene	5.78	75	9091	2.337 ug/l	98
30) 2-Butanone	4.64	43	23385	12.066 ug/l	99
31) 2,2-Dichloropropane	4.56	77	11060m	2.414 ug/l	
32) 1,1,1-Trichloroethane	5.46	97	11226	2.378 ug/l	96
33) Carbon Tetrachloride	5.76	117	10263	2.372 ug/l	97
34) Benzene	6.11	78	27379	2.375 ug/l	97
35) Methacrylonitrile	5.01	41	6695m	3.338 ug/l	
36) 1,2-Dichloroethane	6.17	62	9681	2.555 ug/l #	93
37) Trichloroethene	7.19	130	7870	2.327 ug/l	91
38) Methylcyclohexane	7.44	83	10591	2.389 ug/l	98
39) 1,2-Dichloropropane	7.49	63	6760	2.398 ug/l	100
40) Dibromomethane	7.64	93	5184	2.503 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.87	83	9934	2.357	ug/l	99
42) Vinyl Acetate	3.79	43	80833	11.644	ug/l	100
43) Ethyl Acetate	4.80	43	9720	2.423	ug/l	98
44) Isopropyl Acetate	6.42	43	15879	2.465	ug/l	# 100
45) 1,4-Dioxane	7.72	88	3339	48.572	ug/l	# 91
46) Methyl methacrylate	7.75	41	7663	2.559	ug/l	93
47) n-amyl Acetate	10.88	43	12184	2.265	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	11252	2.338	ug/l	95
49) cis-1,3-Dichloropropene	8.42	75	12295	2.402	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	7468	2.513	ug/l	94
51) Ethyl methacrylate	9.16	69	10844	2.319	ug/l	99
52) 1,3-Dichloropropane	9.35	76	11683	2.383	ug/l	94
53) Dibromochloromethane	9.57	129	7917	2.240	ug/l	96
54) 1,2-Dibromoethane	9.65	107	7989	2.446	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	29085	11.789	ug/l	98
56) Bromoform	10.84	173	5776	2.117	ug/l	94
58) 4-Methyl-2-Pentanone	8.62	43	46686	12.485	ug/l	99
59) 2-Hexanone	9.47	43	35519	12.405	ug/l	99
61) Tetrachloroethene	9.32	164	6652	2.308	ug/l	95
62) Toluene	8.77	91	30089	2.396	ug/l	100
64) Chlorobenzene	10.12	112	18583	2.327	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	7401	2.387	ug/l	97
66) Ethyl Benzene	10.23	91	32575	2.341	ug/l	99
67) m/p-Xylenes	10.34	106	24740	4.538	ug/l	97
68) o-Xylene	10.68	106	12109	2.348	ug/l	99
69) Styrene	10.70	104	19825	2.237	ug/l	99
70) Isopropylbenzene	11.00	105	31216	2.279	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	10129	2.374	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	9278m	2.327	ug/l	
73) Bromobenzene	11.24	156	7734	2.192	ug/l	96
74) n-propylbenzene	11.34	91	34442	2.207	ug/l	100
75) 2-Chlorotoluene	11.40	91	20439	2.266	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	25938	2.261	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	3837	2.223	ug/l	95
78) 4-Chlorotoluene	11.49	91	23250	2.189	ug/l	100
79) tert-butylbenzene	11.76	119	25415	2.187	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	25724	2.250	ug/l	100
81) sec-Butylbenzene	11.93	105	29467	2.211	ug/l	98
82) p-Isopropyltoluene	12.05	119	26076	2.099	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	13498	2.151	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	13660	2.159	ug/l	99
85) n-Butylbenzene	12.37	91	22874	2.058	ug/l	97
86) Hexachloroethane	12.58	117	4747	2.253	ug/l	91
87) 1,2-Dichlorobenzene	12.38	146	12615	2.077	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	2404	2.327	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	8451	1.905	ug/l	94
90) Hexachlorobutadiene	13.76	225	3767	2.033	ug/l	97
91) Naphthalene	13.82	128	30074	2.079	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	8655	2.001	ug/l	96

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

