

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062520\
 Data File : VX016959.D
 Acq On : 25 Jun 2020 17:21
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/26/2020 3:34:28 PM

Quant Time: Jun 26 09:28:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	38720	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	212591	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	190179	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	87315	28.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.57%
60) 4-Bromofluorobenzene	11.12	95	93098	29.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.83%
63) Toluene-d8	8.70	98	258102	30.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	32994	17.523	ug/l 98
3) Chloromethane	1.32	50	46108	18.058	ug/l 97
4) Vinyl Chloride	1.39	62	49050	18.837	ug/l 95
5) Bromomethane	1.64	94	41289	22.022	ug/l 98
6) Chloroethane	1.71	64	30130	17.941	ug/l 99
7) Trichlorofluoromethane	1.92	101	79396	18.749	ug/l 93
8) Diethyl Ether	2.17	74	28303	18.368	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	42109	18.736	ug/l 97
10) 1,1-Dichloroethene	2.35	96	42318	19.091	ug/l 92
11) Methyl Iodide	2.50	142	39418	13.318	ug/l 99
12) Methyl Acetate	2.75	43	53121	18.999	ug/l 98
13) Acrolein	2.28	56	16187	36.689	ug/l 96
14) Acrylonitrile	3.12	53	121353	91.637	ug/l 99
15) Acetone	2.42	58	32433	94.637	ug/l 97
16) Carbon Disulfide	2.55	76	128433	18.431	ug/l 100
17) Allyl chloride	2.71	41	77422	18.658	ug/l 96
18) Methylene Chloride	2.84	84	48897	18.315	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	45107	17.960	ug/l 97
20) Diisopropyl ether	3.82	45	153983	18.568	ug/l 96
21) 1,1-Dichloroethane	3.67	63	84991	18.587	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	52075	18.623	ug/l 97
23) tert-Butyl Alcohol	3.01	59	49034	83.588	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	147540	18.641	ug/l 100
25) Chloroform	5.18	83	85703	18.486	ug/l 98
26) Cyclohexane	5.55	56	72525	18.182	ug/l # 100
29) 1,1-Dichloropropene	5.78	75	63389	18.304	ug/l 99
30) 2-Butanone	4.64	43	166296	92.123	ug/l 100
31) 2,2-Dichloropropane	4.56	77	71722	18.058	ug/l 100
32) 1,1,1-Trichloroethane	5.47	97	77357	18.460	ug/l 99
33) Carbon Tetrachloride	5.75	117	67450	18.150	ug/l 92
34) Benzene	6.12	78	188208	18.664	ug/l 98
35) Methacrylonitrile	5.01	41	36542	18.342	ug/l 95
36) 1,2-Dichloroethane	6.17	62	69075	17.886	ug/l 100
37) Trichloroethene	7.19	130	49858	18.120	ug/l 94
38) Methylcyclohexane	7.44	83	72603	18.409	ug/l 99
39) 1,2-Dichloropropane	7.49	63	49285	18.760	ug/l 99
40) Dibromomethane	7.64	93	34717	19.174	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	69650	18.577	ug/l	99
42) Vinyl Acetate	3.79	43	680783	93.586	ug/l	100
43) Ethyl Acetate	4.80	43	70073	18.740	ug/l	99
44) Isopropyl Acetate	6.42	43	113685	18.445	ug/l	99
45) 1,4-Dioxane	7.71	88	18323	294.685	ug/l	94
46) Methyl methacrylate	7.74	41	54314	19.043	ug/l	92
47) n-amyl Acetate	10.88	43	98070	18.002	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	75395	18.187	ug/l	95
49) cis-1,3-Dichloropropene	8.41	75	81190	18.635	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	46317	18.329	ug/l	96
51) Ethyl methacrylate	9.16	69	71083	18.330	ug/l	99
52) 1,3-Dichloropropane	9.35	76	81866	18.870	ug/l	98
53) Dibromochloromethane	9.57	129	53239	18.330	ug/l	99
54) 1,2-Dibromoethane	9.65	107	49686	18.530	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	205479	100.687	ug/l	100
56) Bromoform	10.84	173	35776	17.352	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	339068	96.790	ug/l	99
59) 2-Hexanone	9.47	43	249424	95.402	ug/l	99
61) Tetrachloroethene	9.32	164	40891	16.860	ug/l	92
62) Toluene	8.76	91	201097	19.333	ug/l	100
64) Chlorobenzene	10.12	112	122705	18.829	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.20	131	46555	18.977	ug/l	97
66) Ethyl Benzene	10.24	91	219470	19.026	ug/l	99
67) m/p-Xylenes	10.34	106	164782	37.868	ug/l	99
68) o-Xylene	10.68	106	79807	19.093	ug/l	97
69) Styrene	10.69	104	132599	18.527	ug/l	98
70) Isopropylbenzene	11.00	105	210306	18.550	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	70303	20.192	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	65406m	19.561	ug/l	
73) Bromobenzene	11.24	156	51739	18.083	ug/l	96
74) n-propylbenzene	11.34	91	247546	18.390	ug/l	99
75) 2-Chlorotoluene	11.40	91	147745	18.822	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	176872	18.586	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	24482	18.067	ug/l	98
78) 4-Chlorotoluene	11.49	91	171898	18.496	ug/l	99
79) tert-butylbenzene	11.76	119	170795	18.735	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	178510	18.685	ug/l	99
81) sec-Butylbenzene	11.93	105	200731	18.186	ug/l	98
82) p-Isopropyltoluene	12.05	119	180331	18.095	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	95599	18.645	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	97209	18.869	ug/l	100
85) n-Butylbenzene	12.37	91	161857	17.546	ug/l	98
86) Hexachloroethane	12.58	117	36318	18.622	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	92708	19.317	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	15754	19.887	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	58092	17.941	ug/l	100
90) Hexachlorobutadiene	13.76	225	20253	16.443	ug/l	97
91) Naphthalene	13.82	128	199013	18.751	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	57994	18.353	ug/l	98

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

