

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019090.D
 Acq On : 23 Oct 2020 20:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 11:16:07 AM

Quant Time: Oct 26 05:09:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 03:21:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	43078	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	241871	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	215593	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	88310	30.78	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.60%
60) 4-Bromofluorobenzene	11.12	95	100438	31.04	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	103.47%
63) Toluene-d8	8.70	98	290254	30.49	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	38315	17.699	ug/l 99
3) Chloromethane	1.31	50	36689	18.756	ug/l 98
4) Vinyl Chloride	1.39	62	46692	18.213	ug/l 97
5) Bromomethane	1.64	94	38427	21.641	ug/l 96
6) Chloroethane	1.72	64	30855	17.760	ug/l 99
7) Trichlorofluoromethane	1.92	101	80073	17.937	ug/l 94
8) Diethyl Ether	2.17	74	30515	18.236	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	38124	17.873	ug/l 99
10) 1,1-Dichloroethene	2.36	96	37955	17.503	ug/l 94
11) Methyl Iodide	2.49	142	30829	18.159	ug/l 96
12) Methyl Acetate	2.75	43	40993	19.096	ug/l 99
13) Acrolein	2.27	56	19550	98.905	ug/l 98
14) Acrylonitrile	3.11	53	92856	92.071	ug/l 99
15) Acetone	2.42	58	28378	98.225	ug/l 93
16) Carbon Disulfide	2.55	76	103144	17.112	ug/l 99
17) Allyl chloride	2.71	41	48997	18.088	ug/l 98
18) Methylene Chloride	2.84	84	44643	18.052	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	44977	17.759	ug/l 97
20) Diisopropyl ether	3.82	45	98597	17.968	ug/l # 84
21) 1,1-Dichloroethane	3.67	63	72322	17.951	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	51889	17.687	ug/l 100
23) tert-Butyl Alcohol	3.01	59	46081	94.246	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	123198	17.967	ug/l 99
25) Chloroform	5.18	83	80629	18.062	ug/l 100
26) Cyclohexane	5.55	56	55153	17.617	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	59476	17.431	ug/l 99
30) 2-Butanone	4.64	43	126031	92.715	ug/l 98
31) 2,2-Dichloropropane	4.55	77	62967	16.129	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	71847	17.519	ug/l 99
33) Carbon Tetrachloride	5.75	117	60895	17.110	ug/l 96
34) Benzene	6.11	78	179647	17.893	ug/l 98
35) Methacrylonitrile	5.01	41	25977	17.653	ug/l 95
36) 1,2-Dichloroethane	6.16	62	62299	18.089	ug/l 100
37) Trichloroethene	7.19	130	50080	17.354	ug/l 97
38) Methylcyclohexane	7.44	83	64687	16.913	ug/l 98
39) 1,2-Dichloropropane	7.49	63	42696	18.321	ug/l 95
40) Dibromomethane	7.63	93	32370	17.897	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	62438	17.461	ug/l	99
42) Vinyl Acetate	3.78	43	464425	87.807	ug/l	99
43) Ethyl Acetate	4.79	43	49929	17.509	ug/l	99
44) Isopropyl Acetate	6.41	43	82497	17.276	ug/l	100
45) 1,4-Dioxane	7.71	88	18447	367.529	ug/l	99
46) Methyl methacrylate	7.74	41	39577	17.511	ug/l	99
47) n-amyl Acetate	10.88	43	68670	17.928	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	65445	16.349	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	73007	17.138	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	46880	17.895	ug/l	96
51) Ethyl methacrylate	9.16	69	66705	17.451	ug/l	99
52) 1,3-Dichloropropane	9.35	76	77743	18.216	ug/l	98
53) Dibromochloromethane	9.56	129	49105	16.838	ug/l	100
54) 1,2-Dibromoethane	9.65	107	49066	17.236	ug/l	96
55) 2-Chloroethyl vinyl ether	8.29	63	175901	86.107	ug/l	100
56) Bromoform	10.84	173	34342	16.844	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	253955	93.407	ug/l	99
59) 2-Hexanone	9.47	43	190002	93.782	ug/l	99
61) Tetrachloroethene	9.32	164	47170	18.443	ug/l	96
62) Toluene	8.76	91	202013	17.829	ug/l	98
64) Chlorobenzene	10.12	112	125480	17.815	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	45165	17.631	ug/l	100
66) Ethyl Benzene	10.24	91	222250	17.891	ug/l	97
67) m/p-Xylenes	10.34	106	172264	36.361	ug/l	99
68) o-Xylene	10.68	106	81360	18.006	ug/l	98
69) Styrene	10.70	104	136495	17.930	ug/l	99
70) Isopropylbenzene	11.00	105	221105	18.199	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	68888	19.641	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	63323m	20.076	ug/l	
73) Bromobenzene	11.24	156	55011	18.527	ug/l	100
74) n-propylbenzene	11.34	91	252300	18.341	ug/l	99
75) 2-Chlorotoluene	11.40	91	148296	19.058	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	183755	18.639	ug/l	98
77) t-1,4-Dichloro-2-butene	11.05	75	20558	16.412	ug/l	93
78) 4-Chlorotoluene	11.49	91	170454	18.641	ug/l	100
79) tert-butylbenzene	11.76	119	177647	18.299	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	183070	18.681	ug/l	100
81) sec-Butylbenzene	11.93	105	212559	18.504	ug/l	99
82) p-Isopropyltoluene	12.05	119	193735	18.300	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	99815	18.809	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	100872	18.721	ug/l	99
85) n-Butylbenzene	12.37	91	172971	18.248	ug/l	100
86) Hexachloroethane	12.58	117	28287	17.396	ug/l	100
87) 1,2-Dichlorobenzene	12.37	146	98361	19.361	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	14973	18.862	ug/l	93
89) 1,2,4-Trichlorobenzene	13.63	180	65199	17.833	ug/l	98
90) Hexachlorobutadiene	13.76	225	26426	17.047	ug/l	99
91) Naphthalene	13.82	128	216790	18.113	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	64263	18.272	ug/l	98

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

