

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102819\
 Data File : VX013259.D
 Acq On : 28 Oct 2019 19:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/30/2019 12:08:00 PM

Quant Time: Oct 29 14:33:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	21915	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	122103	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	110108	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	53358	30.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.10%
60) 4-Bromofluorobenzene	11.14	95	58798	30.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.23%
63) Toluene-d8	8.71	98	151131	30.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.87%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.19	85	28035	17.818	ug/l	96
3) Chloromethane	1.32	50	22048	16.073	ug/l	98
4) Vinyl Chloride	1.40	62	23684	16.700	ug/l	97
5) Bromomethane	1.64	94	16042	20.962	ug/l	94
6) Chloroethane	1.72	64	15193	16.787	ug/l	97
7) Trichlorofluoromethane	1.92	101	42698	18.734	ug/l	98
8) Diethyl Ether	2.18	74	13605	17.490	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.37	101	24712	17.752	ug/l	98
10) 1,1-Dichloroethene	2.37	96	23404	17.408	ug/l	98
11) Methyl Iodide	2.50	142	27546	15.909	ug/l	98
12) Methyl Acetate	2.76	43	29993	17.276	ug/l	98
13) Acrolein	2.28	56	24123	93.344	ug/l	99
14) Acrylonitrile	3.13	53	63590	87.585	ug/l	100
15) Acetone	2.43	58	18659	78.005	ug/l	99
16) Carbon Disulfide	2.56	76	59201	16.490	ug/l	98
17) Allyl chloride	2.72	41	35609	16.651	ug/l	95
18) Methylene Chloride	2.84	84	26598	17.086	ug/l	94
19) trans-1,2-Dichloroethene	3.16	96	24991	17.518	ug/l	93
20) Diisopropyl ether	3.84	45	72103	17.433	ug/l	97
21) 1,1-Dichloroethane	3.69	63	44756	17.822	ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	28799	17.703	ug/l	99
23) tert-Butyl Alcohol	3.03	59	30838	80.619	ug/l #	100
24) Methyl tert-Butyl Ether	3.19	73	84269	18.175	ug/l	99
25) Chloroform	5.20	83	49858	18.893	ug/l	99
26) Cyclohexane	5.57	56	37128	16.849	ug/l #	97
29) 1,1-Dichloropropene	5.79	75	35345	18.633	ug/l	87
30) 2-Butanone	4.66	43	87178	87.616	ug/l	98
31) 2,2-Dichloropropane	4.57	77	39294	17.917	ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	46129	20.097	ug/l	98
33) Carbon Tetrachloride	5.77	117	39144	19.842	ug/l	96
34) Benzene	6.14	78	100531	18.409	ug/l	99
35) Methacrylonitrile	5.03	41	18245	17.880	ug/l	97
36) 1,2-Dichloroethane	6.18	62	41349	20.031	ug/l	99
37) Trichloroethene	7.21	130	29339	19.370	ug/l	88
38) Methylcyclohexane	7.46	83	40393	17.461	ug/l	99
39) 1,2-Dichloropropane	7.51	63	24563	18.326	ug/l	99
40) Dibromomethane	7.65	93	18302	19.116	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	36690	19.006	ug/l	100
42) Vinyl Acetate	3.80	43	306571	88.851	ug/l	99
43) Ethyl Acetate	4.82	43	33459	18.437	ug/l	97
44) Isopropyl Acetate	6.43	43	54423	17.843	ug/l	99
45) 1,4-Dioxane	7.73	88	12077	313.098	ug/l	95
46) Methyl methacrylate	7.76	41	26623	17.739	ug/l	97
47) n-amyl Acetate	10.89	43	45569	17.724	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	38405	18.136	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	42618	18.496	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	26902	19.027	ug/l	95
51) Ethyl methacrylate	9.17	69	40467	18.254	ug/l	97
52) 1,3-Dichloropropane	9.37	76	45561	19.135	ug/l	100
53) Dibromochloromethane	9.57	129	30153	19.771	ug/l	95
54) 1,2-Dibromoethane	9.67	107	29483	19.503	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	85656	95.115	ug/l	97
56) Bromoform	10.85	173	20049	18.529	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	166916	89.964	ug/l	99
59) 2-Hexanone	9.48	43	127725	87.840	ug/l	98
61) Tetrachloroethene	9.33	164	29591	20.272	ug/l	98
62) Toluene	8.78	91	111506	18.760	ug/l	99
64) Chlorobenzene	10.14	112	69899	18.341	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	27522	19.278	ug/l	99
66) Ethyl Benzene	10.25	91	129285	18.898	ug/l	99
67) m/p-Xylenes	10.35	106	94966	36.525	ug/l	96
68) o-Xylene	10.70	106	46592	18.772	ug/l	98
69) Styrene	10.71	104	79673	18.653	ug/l	98
70) Isopropylbenzene	11.01	105	129746	19.050	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	37407	17.924	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	37550m	20.716	ug/l	
73) Bromobenzene	11.25	156	30999	18.966	ug/l	90
74) n-propylbenzene	11.35	91	133484	17.857	ug/l	99
75) 2-Chlorotoluene	11.42	91	82799	17.701	ug/l	95
76) 1,3,5-Trimethylbenzene	11.50	105	105533	18.459	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	11382	16.173	ug/l	94
78) 4-Chlorotoluene	11.51	91	100022	18.714	ug/l	99
79) tert-butylbenzene	11.76	119	103134	18.734	ug/l	96
80) 1,2,4-Trimethylbenzene	11.81	105	107418	18.808	ug/l	98
81) sec-Butylbenzene	11.94	105	115766	17.652	ug/l	98
82) p-Isopropyltoluene	12.06	119	109003	18.178	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	56269	18.851	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	55590	18.831	ug/l	99
85) n-Butylbenzene	12.39	91	89238	17.520	ug/l	98
86) Hexachloroethane	12.59	117	18521	17.696	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	54057	18.669	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	9752	18.964	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	33214	18.444	ug/l	99
90) Hexachlorobutadiene	13.78	225	16725	18.293	ug/l	98
91) Naphthalene	13.83	128	106719	18.219	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	33642	18.235	ug/l	99

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

