

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\
 Data File : VX003717.D
 Acq On : 27 Jul 2018 15:18
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 3:42:31 PM

Quant Time: Jul 27 15:36:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 14:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	22170	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	121638	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	116003	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	48534	32.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.83%
60) 4-Bromofluorobenzene	11.14	95	57539	30.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.90%
63) Toluene-d8	8.72	98	154000	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	154487	91.797	ug/l 100
3) Chloromethane	1.32	50	215342	128.837	ug/l 98
4) Vinyl Chloride	1.40	62	230520	126.491	ug/l 100
5) Bromomethane	1.64	94	125789	166.470	ug/l 100
6) Chloroethane	1.70	64	143760	132.353	ug/l 98
7) Trichlorofluoromethane	1.92	101	309951	127.662	ug/l 99
8) Diethyl Ether	2.19	74	134163	135.127	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	183246	123.297	ug/l 95
10) 1,1-Dichloroethene	2.37	96	178734	129.607	ug/l 94
11) Methyl Iodide	2.50	142	279657	191.648	ug/l 89
12) Methyl Acetate	2.78	43	331375	148.010	ug/l 96
13) Acrolein	2.29	56	151802	872.611	ug/l 99
14) Acrylonitrile	3.16	53	648182	769.287	ug/l 99
15) Acetone	2.45	58	167918	760.213	ug/l 83
16) Carbon Disulfide	2.56	76	512964	130.221	ug/l 99
17) Allyl chloride	2.72	41	368204	140.370	ug/l 92
18) Methylene Chloride	2.85	84	206997	127.909	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	190757	128.271	ug/l 100
20) Diisopropyl ether	3.87	45	698151	147.300	ug/l 98
21) 1,1-Dichloroethane	3.69	63	377159	135.682	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	210287	132.999	ug/l # 73
23) tert-Butyl Alcohol	3.10	59	270502	773.218	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	634702	137.810	ug/l 92
25) Chloroform	5.22	83	348529	139.228	ug/l 99
26) Cyclohexane	5.57	56	315942	145.600	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	265483	138.423	ug/l 99
30) 2-Butanone	4.72	43	826965	771.679	ug/l 95
31) 2,2-Dichloropropane	4.59	77	244777	118.172	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	302853	139.479	ug/l 98
33) Carbon Tetrachloride	5.78	117	266309	139.751	ug/l 95
34) Benzene	6.15	78	794936	140.756	ug/l 99
35) Methacrylonitrile	5.07	41	176177	155.392	ug/l 92
36) 1,2-Dichloroethane	6.20	62	277198	141.145	ug/l 96
37) Trichloroethene	7.21	130	207261	132.708	ug/l 97
38) Methylcyclohexane	7.46	83	311868	143.866	ug/l 97
39) 1,2-Dichloropropane	7.52	63	211503	144.938	ug/l 97
40) Dibromomethane	7.66	93	135418	141.307	ug/l 98

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

41) Bromodichloromethane	7.90	83	267875	149.588	ug/l	98
42) Vinyl Acetate	3.83	43	3004565	729.793	ug/l	99
43) Ethyl Acetate	4.87	43	310055	152.322	ug/l	96
44) Isopropyl Acetate	6.48	43	494544	158.511	ug/l	95
45) 1,4-Dioxane	7.76	88	111069	3335.285	ug/l #	85
46) Methyl methacrylate	7.79	41	260470	161.443	ug/l	90
47) n-amyl Acetate	10.90	43	492180	183.150	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	331919	152.294	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	316773	160.495	ug/l	92
50) 1,1,2-Trichloroethane	9.22	97	207539	143.584	ug/l	99
51) Ethyl methacrylate	9.19	69	349233	165.794	ug/l	85
52) 1,3-Dichloropropane	9.38	76	349037	147.022	ug/l	99
53) Dibromochloromethane	9.59	129	221892	153.610	ug/l	100
54) 1,2-Dibromoethane	9.68	107	219889	146.695	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	887295	892.846	ug/l	100
56) Bromoform	10.86	173	185786	168.218	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	1692327	818.956	ug/l	93
59) 2-Hexanone	9.51	43	1334986	843.488	ug/l	93
61) Tetrachloroethene	9.34	164	191882	108.074	ug/l	98
62) Toluene	8.79	91	881242	139.240	ug/l	99
64) Chlorobenzene	10.14	112	574581	137.097	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	210711	141.744	ug/l	98
66) Ethyl Benzene	10.26	91	1010254	144.454	ug/l	99
67) m/p-Xylenes	10.37	106	782710	287.625	ug/l	98
68) o-Xylene	10.70	106	380315	145.252	ug/l	98
69) Styrene	10.71	104	654334	150.337	ug/l	97
70) Isopropylbenzene	11.02	105	1013820	146.029	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	355561	163.296	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	291256m	114.364	ug/l	
73) Bromobenzene	11.26	156	267343	138.530	ug/l	99
74) n-propylbenzene	11.37	91	1198198	148.177	ug/l	100
75) 2-Chlorotoluene	11.43	91	695022	143.693	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	880799	149.926	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	116104	190.892	ug/l	95
78) 4-Chlorotoluene	11.51	91	832779	147.392	ug/l	100
79) tert-butylbenzene	12.07	119	927089	149.001	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	898389	150.493	ug/l	98
81) sec-Butylbenzene	11.95	105	1027632	147.851	ug/l	99
82) p-Isopropyltoluene	12.07	119	927089	149.001	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	504933	141.216	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	511157	141.637	ug/l	100
85) n-Butylbenzene	12.39	91	853143	156.172	ug/l	100
86) Hexachloroethane	12.60	117	156747	171.141	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	515639	144.262	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	82967	183.408	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	370457	144.360	ug/l	100
90) Hexachlorobutadiene	13.79	225	159421	126.790	ug/l	99
91) Naphthalene	13.84	128	1127954	152.408	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	354260	136.171	ug/l	100

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

