

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021319\
 Data File : VX007504.D
 Acq On : 13 Feb 2019 00:49
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX021319

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:52:59 AM

Quant Time: Feb 13 08:18:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	80168	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	428954	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	379283	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	159573	30.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.57%
60) 4-Bromofluorobenzene	11.13	95	175739	30.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.63%
63) Toluene-d8	8.71	98	508212	29.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	84264	20.756	ug/l 96
3) Chloromethane	1.33	50	99773	22.362	ug/l 96
4) Vinyl Chloride	1.41	62	105820	21.086	ug/l 98
5) Bromomethane	1.64	94	89094	19.880	ug/l 99
6) Chloroethane	1.73	64	73527	21.553	ug/l 93
7) Trichlorofluoromethane	1.93	101	169008	21.483	ug/l 100
8) Diethyl Ether	2.19	74	66821	21.264	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	92104	20.751	ug/l 98
10) 1,1-Dichloroethene	2.38	96	93247	21.172	ug/l 96
11) Methyl Iodide	2.51	142	109599	17.314	ug/l 96
12) Methyl Acetate	2.78	43	122577	20.181	ug/l 99
13) Acrolein	2.30	56	110793	104.570	ug/l 99
14) Acrylonitrile	3.15	53	298449	106.642	ug/l 100
15) Acetone	2.45	58	80401	105.859	ug/l 90
16) Carbon Disulfide	2.57	76	260777	22.328	ug/l 98
17) Allyl chloride	2.73	41	159071	21.080	ug/l 99
18) Methylene Chloride	2.86	84	102455	20.686	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	102710	21.804	ug/l 94
20) Diisopropyl ether	3.87	45	294821	20.674	ug/l 98
21) 1,1-Dichloroethane	3.70	63	167045	20.894	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	110097	21.001	ug/l 99
23) tert-Butyl Alcohol	3.07	59	135609	115.286	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	323222	21.147	ug/l 98
25) Chloroform	5.21	83	171899	20.358	ug/l 95
26) Cyclohexane	5.57	56	139998	20.882	ug/l # 3
29) 1,1-Dichloropropene	5.80	75	121884	20.370	ug/l 99
30) 2-Butanone	4.70	43	381095	107.625	ug/l 99
31) 2,2-Dichloropropane	4.59	77	93583	19.251	ug/l 97
32) 1,1,1-Trichloroethane	5.50	97	145964	20.409	ug/l 99
33) Carbon Tetrachloride	5.79	117	124624	19.712	ug/l 99
34) Benzene	6.15	78	389688	20.659	ug/l 99
35) Methacrylonitrile	5.06	41	77723	21.111	ug/l 97
36) 1,2-Dichloroethane	6.20	62	133170	20.745	ug/l 99
37) Trichloroethene	7.21	130	113229	20.879	ug/l 98
38) Methylcyclohexane	7.46	83	138655	20.018	ug/l 99
39) 1,2-Dichloropropane	7.51	63	97232	20.724	ug/l 98
40) Dibromomethane	7.66	93	69497	20.510	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	117761	19.583	ug/l	99
42) Vinyl Acetate	3.82	43	1315632	106.148	ug/l	100
43) Ethyl Acetate	4.86	43	148041m	21.831	ug/l	
44) Isopropyl Acetate	6.46	43	217121	20.738	ug/l	99
45) 1,4-Dioxane	7.75	88	54722	442.870	ug/l	98
46) Methyl methacrylate	7.77	41	110267	20.798	ug/l	98
47) n-amyl Acetate	10.90	43	191362	20.737	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	124391	20.038	ug/l	97
49) cis-1,3-Dichloropropene	8.44	75	139893	20.237	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	105555	21.364	ug/l	92
51) Ethyl methacrylate	9.18	69	148102	20.676	ug/l	98
52) 1,3-Dichloropropane	9.37	76	167805	21.056	ug/l	100
53) Dibromochloromethane	9.58	129	103548	20.150	ug/l	100
54) 1,2-Dibromoethane	9.67	107	112726	20.836	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	386099	106.023	ug/l	100
56) Bromoform	10.86	173	76802	19.814	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	738580	108.261	ug/l	100
59) 2-Hexanone	9.49	43	562371	108.526	ug/l	100
61) Tetrachloroethene	9.33	164	111721	20.750	ug/l	95
62) Toluene	8.79	91	428553	20.747	ug/l	98
64) Chlorobenzene	10.14	112	281945	21.004	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	101744	20.926	ug/l	99
66) Ethyl Benzene	10.25	91	448125	20.444	ug/l	98
67) m/p-Xylenes	10.36	106	351235	40.853	ug/l	100
68) o-Xylene	10.70	106	172439	20.565	ug/l	100
69) Styrene	10.71	104	278269	20.565	ug/l	99
70) Isopropylbenzene	11.02	105	456525	20.637	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	153637	21.009	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	138932m	20.779	ug/l	
73) Bromobenzene	11.26	156	127488	21.108	ug/l	99
74) n-propylbenzene	11.36	91	502116	20.442	ug/l	100
75) 2-Chlorotoluene	11.42	91	304854	20.757	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	367004	20.324	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	38851	20.130	ug/l	89
78) 4-Chlorotoluene	11.51	91	347991	20.759	ug/l	99
79) tert-butylbenzene	12.06	119	384095	20.031	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	377335	20.584	ug/l	100
81) sec-Butylbenzene	11.94	105	441496	20.473	ug/l	100
82) p-Isopropyltoluene	12.06	119	384095	20.031	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	217686	20.502	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	220173	20.780	ug/l	98
85) n-Butylbenzene	12.39	91	314537	19.768	ug/l	99
86) Hexachloroethane	12.60	117	61725	19.389	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	220519	20.693	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	31213	20.453	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	147641	21.094	ug/l	100
90) Hexachlorobutadiene	13.78	225	68330	20.895	ug/l	99
91) Naphthalene	13.83	128	476901	21.364	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	149735	21.045	ug/l	98

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

