

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013093.D
 Acq On : 16 Oct 2019 13:51
 Operator : JC/SP
 Sample : VX1016WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1016WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:52:10 PM

Quant Time: Oct 17 03:29:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	31124	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	175853	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	157551	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	70738	29.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.80%
60) 4-Bromofluorobenzene	11.14	95	80355	29.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.13%
63) Toluene-d8	8.71	98	218568	30.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	40356	19.232	ug/l 98
3) Chloromethane	1.32	50	38633	18.757	ug/l 97
4) Vinyl Chloride	1.40	62	38525	18.751	ug/l 98
5) Bromomethane	1.63	94	23265	24.230	ug/l 99
6) Chloroethane	1.72	64	23465	18.577	ug/l 97
7) Trichlorofluoromethane	1.92	101	57621	19.087	ug/l 97
8) Diethyl Ether	2.18	74	21267	19.143	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	36274	19.062	ug/l 97
10) 1,1-Dichloroethene	2.36	96	34792	18.585	ug/l 99
11) Methyl Iodide	2.50	142	31585	13.795	ug/l 99
12) Methyl Acetate	2.76	43	49204	18.795	ug/l 95
13) Acrolein	2.28	56	30767	81.674	ug/l 98
14) Acrylonitrile	3.13	53	100528	92.001	ug/l 99
15) Acetone	2.43	58	34726	89.771	ug/l 92
16) Carbon Disulfide	2.56	76	92197	18.212	ug/l 97
17) Allyl chloride	2.72	41	58580	18.440	ug/l 96
18) Methylene Chloride	2.85	84	39980	18.772	ug/l 93
19) trans-1,2-Dichloroethene	3.15	96	37789	18.852	ug/l 92
20) Diisopropyl ether	3.84	45	116674	19.143	ug/l # 86
21) 1,1-Dichloroethane	3.69	63	67433	19.185	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	43028	18.678	ug/l 98
23) tert-Butyl Alcohol	3.03	59	45930	83.196	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	120311	18.856	ug/l 100
25) Chloroform	5.20	83	69036	18.995	ug/l 96
26) Cyclohexane	5.57	56	60218	18.854	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	51573	19.227	ug/l 99
30) 2-Butanone	4.65	43	145481	92.078	ug/l 100
31) 2,2-Dichloropropane	4.57	77	57329	18.893	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	58315	18.584	ug/l 99
33) Carbon Tetrachloride	5.78	117	50306	18.686	ug/l 95
34) Benzene	6.13	78	153801	19.314	ug/l 99
35) Methacrylonitrile	5.03	41	28548	18.426	ug/l 93
36) 1,2-Dichloroethane	6.18	62	55502	19.277	ug/l 99
37) Trichloroethene	7.21	130	40414	18.997	ug/l 100
38) Methylcyclohexane	7.46	83	63614	19.377	ug/l 99
39) 1,2-Dichloropropane	7.50	63	37890	18.947	ug/l 99
40) Dibromomethane	7.65	93	25596	18.847	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	50663	18.788	ug/l	97
42) Vinyl Acetate	3.80	43	495581	95.783	ug/l	100
43) Ethyl Acetate	4.81	43	54261	19.083	ug/l	98
44) Isopropyl Acetate	6.43	43	85596	18.667	ug/l	98
45) 1,4-Dioxane	7.73	88	20605	365.631	ug/l	97
46) Methyl methacrylate	7.76	41	42136	18.802	ug/l	89
47) n-amyl Acetate	10.89	43	70808	18.137	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	55753	18.682	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	61438	18.661	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	38773	18.917	ug/l	98
51) Ethyl methacrylate	9.17	69	58937	18.283	ug/l	97
52) 1,3-Dichloropropane	9.37	76	66465	19.322	ug/l	100
53) Dibromochloromethane	9.57	129	37759	17.940	ug/l	98
54) 1,2-Dibromoethane	9.67	107	40396	18.738	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	138757	97.842	ug/l	99
56) Bromoform	10.85	173	25675	17.530	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	269255	93.924	ug/l	100
59) 2-Hexanone	9.48	43	206382	92.256	ug/l	100
61) Tetrachloroethene	9.33	164	39533	19.695	ug/l	93
62) Toluene	8.78	91	163464	19.092	ug/l	99
64) Chlorobenzene	10.14	112	103342	18.991	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	36992	18.509	ug/l	99
66) Ethyl Benzene	10.25	91	186227	19.056	ug/l	97
67) m/p-Xylenes	10.35	106	140802	38.297	ug/l	99
68) o-Xylene	10.70	106	68213	19.053	ug/l	97
69) Styrene	10.71	104	113177	18.363	ug/l	98
70) Isopropylbenzene	11.01	105	183661	19.207	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	58505	18.800	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	46160m	17.839	ug/l	
73) Bromobenzene	11.25	156	42295	18.545	ug/l	97
74) n-propylbenzene	11.35	91	200308	18.754	ug/l	100
75) 2-Chlorotoluene	11.42	91	124225	18.985	ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	155938	19.164	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	17710	17.685	ug/l	96
78) 4-Chlorotoluene	11.51	91	144719	19.127	ug/l	99
79) tert-butylbenzene	11.77	119	145701	19.035	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	151394	18.657	ug/l	97
81) sec-Butylbenzene	11.94	105	168953	18.323	ug/l	100
82) p-Isopropyltoluene	12.06	119	160010	19.031	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	77399	18.724	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	76954	18.509	ug/l	98
85) n-Butylbenzene	12.38	91	129997	18.113	ug/l	98
86) Hexachloroethane	12.59	117	26222	17.997	ug/l	95
87) 1,2-Dichlorobenzene	12.38	146	73565	18.044	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	12815	17.933	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	48127	18.920	ug/l	98
90) Hexachlorobutadiene	13.78	225	22761	18.852	ug/l	98
91) Naphthalene	13.83	128	149923	17.329	ug/l	97
92) 1,2,3-Trichlorobenzene	14.01	180	46268	18.158	ug/l	99

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

