

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013166.D
 Acq On : 21 Oct 2019 20:46
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:32:37 PM

Quant Time: Oct 22 02:35:56 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	5.01	128	27550	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	155172	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	136174	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	61416	28.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.40%
60) 4-Bromofluorobenzene	11.14	95	68777	29.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.70%
63) Toluene-d8	8.71	98	187656	30.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	35801	18.099	ug/l 96
3) Chloromethane	1.32	50	32163	18.651	ug/l 92
4) Vinyl Chloride	1.40	62	31820	17.848	ug/l 96
5) Bromomethane	1.64	94	20193	20.989	ug/l 96
6) Chloroethane	1.72	64	21157	18.596	ug/l 99
7) Trichlorofluoromethane	1.92	101	51485	17.969	ug/l 94
8) Diethyl Ether	2.18	74	17898	18.302	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	30850	17.629	ug/l 98
10) 1,1-Dichloroethene	2.37	96	30323	17.941	ug/l 98
11) Methyl Iodide	2.50	142	34101	15.666	ug/l 100
12) Methyl Acetate	2.76	43	40455	18.536	ug/l 99
13) Acrolein	2.28	56	26278	80.885	ug/l 98
14) Acrylonitrile	3.13	53	85786	93.989	ug/l 97
15) Acetone	2.43	58	23753	78.990	ug/l 94
16) Carbon Disulfide	2.56	76	75852	16.806	ug/l 98
17) Allyl chloride	2.72	41	46942	17.461	ug/l 94
18) Methylene Chloride	2.85	84	35053	17.912	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	32795	18.286	ug/l 93
20) Diisopropyl ether	3.84	45	97706	18.791	ug/l 99
21) 1,1-Dichloroethane	3.69	63	57234	18.129	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	37695	18.432	ug/l 97
23) tert-Butyl Alcohol	3.03	59	37700	78.399	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	105056	18.024	ug/l 98
25) Chloroform	5.20	83	60824	18.334	ug/l 97
26) Cyclohexane	5.57	56	49287	17.792	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	44286	18.371	ug/l # 87
30) 2-Butanone	4.65	43	114278	90.376	ug/l 98
31) 2,2-Dichloropropane	4.57	77	45889	16.465	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	53164	18.226	ug/l 98
33) Carbon Tetrachloride	5.78	117	44338	17.685	ug/l 98
34) Benzene	6.14	78	131910	19.008	ug/l 96
35) Methacrylonitrile	5.03	41	24154	18.626	ug/l 97
36) 1,2-Dichloroethane	6.18	62	49399	18.831	ug/l 99
37) Trichloroethene	7.21	130	35848	18.623	ug/l 96
38) Methylcyclohexane	7.46	83	52910	17.997	ug/l 98
39) 1,2-Dichloropropane	7.51	63	32343	18.988	ug/l 98
40) Dibromomethane	7.65	93	23038	18.935	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	44498	18.138	ug/l #	99
42) Vinyl Acetate	3.80	43	409234	93.329	ug/l	100
43) Ethyl Acetate	4.81	43	45482	19.721	ug/l	98
44) Isopropyl Acetate	6.43	43	73490	18.960	ug/l	100
45) 1,4-Dioxane	7.73	88	15884	324.037	ug/l	99
46) Methyl methacrylate	7.76	41	34909	18.303	ug/l	95
47) n-amyl Acetate	10.89	43	59419	18.186	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	47530	17.662	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	52245	17.842	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	33912	18.874	ug/l	97
51) Ethyl methacrylate	9.17	69	51553	18.299	ug/l	98
52) 1,3-Dichloropropane	9.37	76	56825	18.780	ug/l	99
53) Dibromochloromethane	9.58	129	34597	17.850	ug/l	96
54) 1,2-Dibromoethane	9.67	107	36707	19.107	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	114206	99.792	ug/l	98
56) Bromoform	10.85	173	23025	16.745	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	223603	97.448	ug/l	99
59) 2-Hexanone	9.48	43	168072	93.462	ug/l	99
61) Tetrachloroethene	9.33	164	36473	20.204	ug/l	100
62) Toluene	8.78	91	142027	19.321	ug/l	99
64) Chlorobenzene	10.14	112	89911	19.076	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	33441	18.940	ug/l	99
66) Ethyl Benzene	10.25	91	160826	19.009	ug/l	98
67) m/p-Xylenes	10.35	106	120624	37.513	ug/l	98
68) o-Xylene	10.70	106	58656	19.109	ug/l	93
69) Styrene	10.71	104	99076	18.756	ug/l	99
70) Isopropylbenzene	11.01	105	154247	18.313	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	48841	18.923	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	41574m	18.545	ug/l	
73) Bromobenzene	11.25	156	37484	18.544	ug/l	97
74) n-propylbenzene	11.35	91	169414	18.325	ug/l	100
75) 2-Chlorotoluene	11.42	91	106516	18.413	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	132883	18.794	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	14214	16.331	ug/l	95
78) 4-Chlorotoluene	11.51	91	125961	19.056	ug/l	99
79) tert-butylbenzene	11.76	119	125380	18.416	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	134482	19.039	ug/l	98
81) sec-Butylbenzene	11.94	105	148931	18.362	ug/l	99
82) p-Isopropyltoluene	12.06	119	139452	18.805	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	68108	18.450	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	68245	18.693	ug/l	98
85) n-Butylbenzene	12.39	91	109523	17.387	ug/l	98
86) Hexachloroethane	12.59	117	22211	17.160	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	66756	18.642	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	10746	16.897	ug/l	93
89) 1,2,4-Trichlorobenzene	13.64	180	41375	18.578	ug/l	97
90) Hexachlorobutadiene	13.78	225	18795	16.622	ug/l	99
91) Naphthalene	13.83	128	138512	19.120	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	41593	18.229	ug/l	99

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

