

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
 Data File : VN059127.D
 Acq On : 7 Nov 2019 17:22
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/8/2019 9:39:29 AM

Quant Time: Nov 08 03:16:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	72262	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	405319	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	368243	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	173412	28.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.23%
60) 4-Bromofluorobenzene	12.40	95	185232	28.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.87%
63) Toluene-d8	10.08	98	519662	29.89	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	78994	20.176	ug/l 100
3) Chloromethane	2.04	50	107387	20.533	ug/l 99
4) Vinyl Chloride	2.17	62	111414	20.612	ug/l 96
5) Bromomethane	2.53	94	46468m	13.924	ug/l
6) Chloroethane	2.68	64	67387	19.834	ug/l 97
7) Trichlorofluoromethane	2.99	101	142373	21.400	ug/l 99
8) Diethyl Ether	3.39	74	58029	22.869	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	89238	23.181	ug/l 97
10) 1,1-Dichloroethene	3.71	96	82204	21.742	ug/l 95
11) Methyl Iodide	3.92	142	59537	11.307	ug/l 96
12) Methyl Acetate	4.30	43	139185	23.009	ug/l 96
13) Acrolein	3.58	56	73335	109.720	ug/l 99
14) Acrylonitrile	4.96	53	276603	116.048	ug/l 96
15) Acetone	3.79	58	85338	120.616	ug/l 79
16) Carbon Disulfide	4.02	76	236404	21.437	ug/l 99
17) Allyl chloride	4.29	41	163439	21.718	ug/l 89
18) Methylene Chloride	4.53	84	101391	22.145	ug/l 94
19) trans-1,2-Dichloroethene	5.01	96	89564	21.760	ug/l 86
20) Diisopropyl ether	5.92	45	337825	22.034	ug/l 93
21) 1,1-Dichloroethane	5.82	63	184414	21.721	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	103805	21.152	ug/l 98
23) tert-Butyl Alcohol	4.76	59	100711	103.301	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	297609	21.099	ug/l 96
25) Chloroform	7.35	83	179922	21.248	ug/l 97
26) Cyclohexane	7.63	56	154412	20.721	ug/l # 97
29) 1,1-Dichloropropene	7.77	75	128976	20.215	ug/l 98
30) 2-Butanone	6.81	43	367928	102.046	ug/l 99
31) 2,2-Dichloropropane	6.80	77	152146	20.232	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	149006	20.192	ug/l 99
33) Carbon Tetrachloride	7.75	117	130069	20.363	ug/l 99
34) Benzene	8.02	78	403261	21.469	ug/l 97
35) Methacrylonitrile	7.15	41	47274m	14.842	ug/l
36) 1,2-Dichloroethane	8.10	62	140059	19.502	ug/l 97
37) Trichloroethene	8.82	130	95736	20.746	ug/l 100
38) Methylcyclohexane	9.07	83	151971	20.543	ug/l 100
39) 1,2-Dichloropropane	9.10	63	110062	21.441	ug/l 99
40) Dibromomethane	9.19	93	66138	20.409	ug/l 96

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

41) Bromodichloromethane	9.39	83	137498	20.769	ug/l	98
42) Vinyl Acetate	5.87	43	1374833	108.878	ug/l	99
43) Ethyl Acetate	6.90	43	147468	20.838	ug/l #	93
44) Isopropyl Acetate	8.15	43	233578	20.377	ug/l	92
45) 1,4-Dioxane	9.18	88	36090	410.019	ug/l	97
46) Methyl methacrylate	9.18	41	105651	20.076	ug/l	93
47) n-amyl Acetate	12.07	43	187713	18.473	ug/l	96
48) t-1,3-Dichloropropene	10.37	75	155475	20.250	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	168948	20.955	ug/l	93
50) 1,1,2-Trichloroethane	10.55	97	98484	21.289	ug/l	96
51) Ethyl methacrylate	10.42	69	147153	19.893	ug/l	94
52) 1,3-Dichloropropane	10.70	76	171347	20.798	ug/l	98
53) Dibromochloromethane	10.90	129	102874	20.721	ug/l	98
54) 1,2-Dibromoethane	11.00	107	99452	20.741	ug/l	100
55) 2-Chloroethyl vinyl ether	9.68	63	319397	86.802	ug/l	99
56) Bromoform	12.13	173	74030	21.405	ug/l	99
58) 4-Methyl-2-Pentanone	9.97	43	743540	110.683	ug/l	98
59) 2-Hexanone	10.74	43	540555	102.640	ug/l	97
61) Tetrachloroethene	10.63	164	85521	21.492	ug/l	97
62) Toluene	10.15	91	420851	21.246	ug/l	99
64) Chlorobenzene	11.43	112	250769	20.707	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	96020	21.145	ug/l	99
66) Ethyl Benzene	11.51	91	456690	20.822	ug/l	100
67) m/p-Xylenes	11.62	106	335042	40.887	ug/l	98
68) o-Xylene	11.95	106	162382	20.441	ug/l	99
69) Styrene	11.96	104	261289	19.910	ug/l	98
70) Isopropylbenzene	12.25	105	439066	20.472	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	153016	21.192	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	133128m	20.348	ug/l	
73) Bromobenzene	12.53	156	106500	20.444	ug/l	99
74) n-propylbenzene	12.59	91	512669	20.422	ug/l	99
75) 2-Chlorotoluene	12.68	91	308245	20.408	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	371803	20.240	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	49896	20.019	ug/l	90
78) 4-Chlorotoluene	12.77	91	312307	20.062	ug/l	99
79) tert-butylbenzene	12.99	119	317777	20.248	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	368119	20.167	ug/l	99
81) sec-Butylbenzene	13.17	105	418974	19.837	ug/l	99
82) p-Isopropyltoluene	13.29	119	379157	19.991	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	188055	19.949	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	179042	19.015	ug/l	99
85) n-Butylbenzene	13.62	91	309814	17.842	ug/l	98
86) Hexachloroethane	13.88	117	70861	20.530	ug/l	95
87) 1,2-Dichlorobenzene	13.66	146	182111	19.569	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	29966	18.646	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	96955	16.500	ug/l	99
90) Hexachlorobutadiene	15.01	225	61630	20.311	ug/l	99
91) Naphthalene	15.13	128	260671	15.025	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	98191	17.166	ug/l	98

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

