

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058558.D
 Acq On : 7 Oct 2019 11:26
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 10:50:16 AM

Quant Time: Oct 08 14:45:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	74360	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	433446	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	385715	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	197726	30.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.27%
60) 4-Bromofluorobenzene	12.41	95	197139	29.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.47%
63) Toluene-d8	10.08	98	552191	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	90723	20.288	ug/l 100
3) Chloromethane	2.04	50	118326	22.917	ug/l 98
4) Vinyl Chloride	2.17	62	109355	21.225	ug/l 96
5) Bromomethane	2.55	94	54420	19.453	ug/l 99
6) Chloroethane	2.68	64	68160	22.386	ug/l 98
7) Trichlorofluoromethane	3.00	101	129480	21.344	ug/l 97
8) Diethyl Ether	3.39	74	54959	20.379	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	83716	20.048	ug/l 98
10) 1,1-Dichloroethene	3.72	96	81803	20.039	ug/l 96
11) Methyl Iodide	3.93	142	71893	17.177	ug/l 99
12) Methyl Acetate	4.30	43	111333	20.477	ug/l 99
13) Acrolein	3.58	56	30585	197.831	ug/l 99
14) Acrylonitrile	4.96	53	225098	100.270	ug/l 99
15) Acetone	3.79	58	81910	131.591	ug/l 99
16) Carbon Disulfide	4.03	76	226303	19.949	ug/l 99
17) Allyl chloride	4.30	41	162045	21.252	ug/l 95
18) Methylene Chloride	4.52	84	102237	21.231	ug/l 94
19) trans-1,2-Dichloroethene	5.01	96	90919	19.867	ug/l 96
20) Diisopropyl ether	5.93	45	331730	20.418	ug/l 96
21) 1,1-Dichloroethane	5.82	63	188823	20.769	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	105855	19.913	ug/l 97
23) tert-Butyl Alcohol	4.76	59	86103	103.897	ug/l 100
24) Methyl tert-Butyl Ether	5.01	73	301060	20.546	ug/l 97
25) Chloroform	7.35	83	187227	20.337	ug/l 99
26) Cyclohexane	7.63	56	160654	18.905	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	139238	19.680	ug/l 98
30) 2-Butanone	6.81	43	339973	105.825	ug/l 99
31) 2,2-Dichloropropane	6.80	77	171365	23.526	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	160118	20.982	ug/l 99
33) Carbon Tetrachloride	7.75	117	134892	20.805	ug/l 100
34) Benzene	8.02	78	404190	20.138	ug/l 97
35) Methacrylonitrile	7.16	41	63753m	23.072	ug/l
36) 1,2-Dichloroethane	8.11	62	157389	20.018	ug/l 99
37) Trichloroethene	8.82	130	100901	20.081	ug/l 99
38) Methylcyclohexane	9.07	83	152693	17.847	ug/l 99
39) 1,2-Dichloropropane	9.11	63	112176	20.490	ug/l 98
40) Dibromomethane	9.20	93	69576	20.136	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	141783	20.760	ug/l	100
42) Vinyl Acetate	5.87	43	1366878	111.434	ug/l	100
43) Ethyl Acetate	6.91	43	124150	19.463	ug/l	94
44) Isopropyl Acetate	8.15	43	219588	19.231	ug/l #	81
45) 1,4-Dioxane	9.19	88	36009	373.814	ug/l	97
46) Methyl methacrylate	9.19	41	102217	18.889	ug/l	96
47) n-amyl Acetate	12.07	43	192640	19.382	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	155542	20.842	ug/l	95
49) cis-1,3-Dichloropropene	9.83	75	171919	20.691	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	99938	20.695	ug/l	98
51) Ethyl methacrylate	10.43	69	143698	18.808	ug/l	98
52) 1,3-Dichloropropane	10.71	76	170739	19.908	ug/l	99
53) Dibromochloromethane	10.90	129	97921	20.184	ug/l	98
54) 1,2-Dibromoethane	11.00	107	98241	19.935	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	360790	111.521	ug/l	100
56) Bromoform	12.13	173	61274	20.024	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	638813	105.699	ug/l	100
59) 2-Hexanone	10.75	43	484286	105.995	ug/l	99
61) Tetrachloroethene	10.63	164	87471	21.646	ug/l	97
62) Toluene	10.15	91	436042	20.641	ug/l	100
64) Chlorobenzene	11.44	112	258401	19.905	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	97205	21.360	ug/l	99
66) Ethyl Benzene	11.51	91	485602	21.081	ug/l	100
67) m/p-Xylenes	11.62	106	347768	39.325	ug/l	99
68) o-Xylene	11.95	106	165760	19.276	ug/l	94
69) Styrene	11.97	104	272496	18.950	ug/l	99
70) Isopropylbenzene	12.25	105	458926	20.594	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	138046	19.491	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	137651m	22.599	ug/l	
73) Bromobenzene	12.53	156	108148	20.036	ug/l	98
74) n-propylbenzene	12.60	91	540117	21.024	ug/l	99
75) 2-Chlorotoluene	12.68	91	324305	20.181	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	384142	20.020	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	40209	20.237	ug/l	95
78) 4-Chlorotoluene	12.78	91	331714	20.140	ug/l	99
79) tert-butylbenzene	13.00	119	318917	19.197	ug/l	100
80) 1,2,4-Trimethylbenzene	13.05	105	384940	20.098	ug/l	98
81) sec-Butylbenzene	13.18	105	429643	19.718	ug/l	99
82) p-Isopropyltoluene	13.30	119	385739	19.658	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	189503	19.030	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	187851	18.953	ug/l	100
85) n-Butylbenzene	13.62	91	344590	18.901	ug/l	99
86) Hexachloroethane	13.88	117	64044	20.207	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	189478	19.486	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	27019	19.546	ug/l	96
89) 1,2,4-Trichlorobenzene	14.92	180	106511	16.766	ug/l	96
90) Hexachlorobutadiene	15.02	225	51098	16.623	ug/l	96
91) Naphthalene	15.13	128	301750	17.296	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	101067	16.564	ug/l	98

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

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