

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
 Data File : VN058396.D
 Acq On : 26 Sep 2019 19:46
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/27/2019 11:20:17 AM

Quant Time: Sep 27 05:54:57 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	82291	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	512034	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	440756	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	225210	30.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.20%
60) 4-Bromofluorobenzene	12.41	95	222512	29.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.27%
63) Toluene-d8	10.09	98	633508	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	100681	20.345 ug/l	95
3) Chloromethane	2.04	50	113615	19.884 ug/l	99
4) Vinyl Chloride	2.17	62	112491	19.729 ug/l	97
5) Bromomethane	2.50	94	34627	11.185 ug/l	95
6) Chloroethane	2.62	64	69674	20.677 ug/l	93
7) Trichlorofluoromethane	2.96	101	151197	22.522 ug/l	100
8) Diethyl Ether	3.38	74	66570	22.306 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	98662	21.350 ug/l	99
10) 1,1-Dichloroethene	3.70	96	97353	21.550 ug/l	96
11) Methyl Iodide	3.91	142	83350	17.995 ug/l	99
12) Methyl Acetate	4.30	43	133136	22.127 ug/l	100
13) Acrolein	3.59	56	18375	107.399 ug/l	99
14) Acrylonitrile	4.96	53	245905	98.981 ug/l	99
15) Acetone	3.80	58	62736	91.074 ug/l	96
16) Carbon Disulfide	4.01	76	221897	17.675 ug/l	99
17) Allyl chloride	4.29	41	169921	20.137 ug/l	96
18) Methylene Chloride	4.52	84	111844	20.987 ug/l	95
19) trans-1,2-Dichloroethene	5.00	96	107187	21.164 ug/l	96
20) Diisopropyl ether	5.93	45	380652	21.171 ug/l	96
21) 1,1-Dichloroethane	5.82	63	212635	21.134 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	124791	21.213 ug/l	97
23) tert-Butyl Alcohol	4.83	59	70570m	76.947 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	352972	21.767 ug/l	99
25) Chloroform	7.35	83	208646	20.480 ug/l	99
26) Cyclohexane	7.63	56	192797	20.501 ug/l	# 99
29) 1,1-Dichloropropene	7.77	75	162691	19.465 ug/l	99
30) 2-Butanone	6.82	43	326124	85.934 ug/l	98
31) 2,2-Dichloropropane	6.80	77	154629	17.970 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	177258	19.663 ug/l	98
33) Carbon Tetrachloride	7.75	117	141660	18.496 ug/l	98
34) Benzene	8.02	78	476625	20.102 ug/l	99
35) Methacrylonitrile	7.15	41	60118	18.417 ug/l	88
36) 1,2-Dichloroethane	8.11	62	180583	19.443 ug/l	99
37) Trichloroethene	8.82	130	117102	19.728 ug/l	97
38) Methylcyclohexane	9.07	83	184274	18.233 ug/l	96
39) 1,2-Dichloropropane	9.11	63	128853	19.924 ug/l	99
40) Dibromomethane	9.20	93	77687	19.032 ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	148246	18.375	ug/l	98
42) Vinyl Acetate	5.87	43	1532715	105.776	ug/l	100
43) Ethyl Acetate	6.91	43	147931	19.632	ug/l	99
44) Isopropyl Acetate	8.15	43	272485	20.201	ug/l	97
45) 1,4-Dioxane	9.20	88	23397	205.608	ug/l	94
46) Methyl methacrylate	9.19	41	115249	18.028	ug/l	98
47) n-amyl Acetate	12.08	43	226036	19.252	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	162540	18.437	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	182582	18.601	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	110784	19.420	ug/l	98
51) Ethyl methacrylate	10.43	69	167171	18.522	ug/l	97
52) 1,3-Dichloropropane	10.71	76	195213	19.268	ug/l	100
53) Dibromochloromethane	10.90	129	104191	18.180	ug/l	100
54) 1,2-Dibromoethane	11.00	107	112099	19.256	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	384103	100.504	ug/l	100
56) Bromoform	12.13	173	59047	16.334	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	705746	102.191	ug/l	99
59) 2-Hexanone	10.75	43	569296	109.041	ug/l	97
61) Tetrachloroethene	10.63	164	93660	20.283	ug/l	99
62) Toluene	10.15	91	570364	23.628	ug/l	100
64) Chlorobenzene	11.44	112	296852	20.012	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	102405	19.692	ug/l	99
66) Ethyl Benzene	11.51	91	572424	21.747	ug/l	99
67) m/p-Xylenes	11.62	106	429453	42.497	ug/l	98
68) o-Xylene	11.95	106	199431	20.296	ug/l	96
69) Styrene	11.97	104	325035	19.781	ug/l	99
70) Isopropylbenzene	12.25	105	528258	20.745	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	157060	19.406	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	128448m	18.454	ug/l	
73) Bromobenzene	12.53	156	122409	19.847	ug/l	99
74) n-propylbenzene	12.60	91	610508	20.797	ug/l	100
75) 2-Chlorotoluene	12.68	91	364116	19.829	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	443263	20.216	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	39813	17.536	ug/l	99
78) 4-Chlorotoluene	12.78	91	364665	19.376	ug/l	99
79) tert-butylbenzene	13.00	119	375713	19.791	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	454161	20.751	ug/l	98
81) sec-Butylbenzene	13.18	105	486831	19.552	ug/l	100
82) p-Isopropyltoluene	13.30	119	435096	19.404	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	218637	19.213	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	214677	18.955	ug/l	99
85) n-Butylbenzene	13.62	91	376411	18.068	ug/l	99
86) Hexachloroethane	13.88	117	59435	16.411	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	216903	19.520	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	27049	17.124	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	119152	16.414	ug/l	99
90) Hexachlorobutadiene	15.02	225	54616	15.549	ug/l	96
91) Naphthalene	15.13	128	352695	17.692	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	111194	15.948	ug/l	99

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

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