

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
 Data File : VN058370.D
 Acq On : 26 Sep 2019 9:06
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/27/2019 11:18:52 AM

Quant Time: Sep 27 03:33:27 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	7.18	128	80914	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	475079	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	424705	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	217538	30.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.37%
60) 4-Bromofluorobenzene	12.40	95	214641	29.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.37%
63) Toluene-d8	10.09	98	608746	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	104401	21.456 ug/l	95
3) Chloromethane	2.04	50	114897	20.450 ug/l	100
4) Vinyl Chloride	2.17	62	114467	20.418 ug/l	99
5) Bromomethane	2.55	94	63012	20.700 ug/l	94
6) Chloroethane	2.69	64	68327	20.623 ug/l	99
7) Trichlorofluoromethane	3.00	101	137950	20.898 ug/l	99
8) Diethyl Ether	3.39	74	59591	20.307 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	93748	20.632 ug/l	98
10) 1,1-Dichloroethene	3.72	96	90146	20.294 ug/l	98
11) Methyl Iodide	3.93	142	97427	21.392 ug/l	98
12) Methyl Acetate	4.30	43	111905	18.915 ug/l	98
13) Acrolein	3.59	56	15821	94.045 ug/l	99
14) Acrylonitrile	4.96	53	238039	97.445 ug/l	99
15) Acetone	3.80	58	95997	141.730 ug/l	98
16) Carbon Disulfide	4.03	76	236920	19.193 ug/l	99
17) Allyl chloride	4.30	41	164135	19.782 ug/l	95
18) Methylene Chloride	4.53	84	107854	20.583 ug/l	93
19) trans-1,2-Dichloroethene	5.01	96	100463	20.174 ug/l	94
20) Diisopropyl ether	5.93	45	351813	19.900 ug/l	97
21) 1,1-Dichloroethane	5.83	63	202406	20.459 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	116752	20.184 ug/l	98
23) tert-Butyl Alcohol	4.75	59	81058	89.887 ug/l	100
24) Methyl tert-Butyl Ether	5.02	73	310650	19.483 ug/l	98
25) Chloroform	7.36	83	202317	20.196 ug/l	100
26) Cyclohexane	7.64	56	182303	19.715 ug/l	# 100
29) 1,1-Dichloropropene	7.78	75	153825	19.836 ug/l	99
30) 2-Butanone	6.81	43	387705	110.107 ug/l	99
31) 2,2-Dichloropropane	6.81	77	164364	20.587 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	169420	20.255 ug/l	100
33) Carbon Tetrachloride	7.76	117	141446	19.904 ug/l	97
34) Benzene	8.03	78	444655	20.213 ug/l	99
35) Methacrylonitrile	7.15	41	53032	17.510 ug/l	89
36) 1,2-Dichloroethane	8.11	62	168815	19.589 ug/l	99
37) Trichloroethene	8.82	130	109844	19.945 ug/l	98
38) Methylcyclohexane	9.07	83	184073	19.630 ug/l	99
39) 1,2-Dichloropropane	9.11	63	120877	20.144 ug/l	96
40) Dibromomethane	9.20	93	76003	20.068 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	149557	19.979	ug/l	98
42) Vinyl Acetate	5.87	43	1439808	107.094	ug/l	100
43) Ethyl Acetate	6.91	43	141369	20.221	ug/l	100
44) Isopropyl Acetate	8.15	43	230526	18.420	ug/l	99
45) 1,4-Dioxane	9.19	88	37431	354.524	ug/l	95
46) Methyl methacrylate	9.19	41	110364	18.607	ug/l	99
47) n-amyl Acetate	12.07	43	197335	18.115	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	156576	19.142	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	178661	19.618	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	105219	19.879	ug/l	97
51) Ethyl methacrylate	10.43	69	155622	18.583	ug/l	98
52) 1,3-Dichloropropane	10.71	76	183840	19.557	ug/l	97
53) Dibromochloromethane	10.90	129	100732	18.944	ug/l	97
54) 1,2-Dibromoethane	11.00	107	105220	19.480	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	318074	89.701	ug/l	99
56) Bromoform	12.13	173	60127	17.927	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	689469	103.607	ug/l	100
59) 2-Hexanone	10.75	43	541596	107.656	ug/l	99
61) Tetrachloroethene	10.63	164	88600	19.913	ug/l	99
62) Toluene	10.15	91	480524	20.659	ug/l	98
64) Chlorobenzene	11.43	112	287154	20.089	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	97801	19.518	ug/l	99
66) Ethyl Benzene	11.51	91	530418	20.913	ug/l	99
67) m/p-Xylenes	11.62	106	388435	39.891	ug/l	100
68) o-Xylene	11.95	106	183191	19.348	ug/l	94
69) Styrene	11.97	104	310785	19.628	ug/l	99
70) Isopropylbenzene	12.25	105	511074	20.829	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	150954	19.357	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	141593m	21.112	ug/l	
73) Bromobenzene	12.53	156	117199	19.720	ug/l	98
74) n-propylbenzene	12.60	91	603034	21.318	ug/l	99
75) 2-Chlorotoluene	12.68	91	349925	19.776	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	430595	20.381	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	36498	16.683	ug/l	96
78) 4-Chlorotoluene	12.78	91	358885	19.790	ug/l	100
79) tert-butylbenzene	13.00	119	362231	19.802	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	435523	20.652	ug/l	99
81) sec-Butylbenzene	13.18	105	498914	20.795	ug/l	100
82) p-Isopropyltoluene	13.29	119	441210	20.420	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	212328	19.364	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	207290	18.995	ug/l	99
85) n-Butylbenzene	13.62	91	409825	20.416	ug/l	99
86) Hexachloroethane	13.88	117	66041	18.924	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	208960	19.516	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	26752	17.576	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	123964	17.722	ug/l	98
90) Hexachlorobutadiene	15.02	225	65685	19.407	ug/l	97
91) Naphthalene	15.13	128	353346	18.394	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	125276	18.647	ug/l	98

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

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