

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\
 Data File : VN053283.D
 Acq On : 4 Jan 2019 15:46
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/7/2019 11:10:06 AM

Quant Time: Jan 05 00:21:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	138792	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	793817	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	718280	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	267439	30.33	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.10%
60) 4-Bromofluorobenzene	12.40	95	336612	30.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.10%
63) Toluene-d8	10.09	98	965745	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	193348	20.908	ug/l 100
3) Chloromethane	2.06	50	219328	20.208	ug/l 99
4) Vinyl Chloride	2.19	62	211865	19.837	ug/l 98
5) Bromomethane	2.58	94	114591	16.641	ug/l 98
6) Chloroethane	2.71	64	121261	19.710	ug/l 99
7) Trichlorofluoromethane	3.03	101	271880	20.613	ug/l 99
8) Diethyl Ether	3.41	74	99047	20.213	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	170616	20.589	ug/l 97
10) 1,1-Dichloroethene	3.74	96	158022	19.540	ug/l 96
11) Methyl Iodide	3.96	142	186107	15.714	ug/l 100
12) Methyl Acetate	4.33	43	141991	22.527	ug/l 94
13) Acrolein	3.61	56	59514	79.082	ug/l 99
14) Acrylonitrile	4.99	53	315539	111.899	ug/l 98
15) Acetone	3.82	58	73472	122.597	ug/l 92
16) Carbon Disulfide	4.06	76	480505	19.314	ug/l 99
17) Allyl chloride	4.33	41	234922	18.466	ug/l 98
18) Methylene Chloride	4.55	84	184165	19.898	ug/l 94
19) trans-1,2-Dichloroethene	5.04	96	168084	19.667	ug/l 91
20) Diisopropyl ether	5.95	45	552175	20.267	ug/l 99
21) 1,1-Dichloroethane	5.85	63	318561	20.081	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	195177	20.273	ug/l 95
23) tert-Butyl Alcohol	4.77	59	55172	116.063	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	439127	20.824	ug/l 96
25) Chloroform	7.37	83	308335	20.221	ug/l 97
26) Cyclohexane	7.66	56	294539	19.907	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	244452	20.330	ug/l 99
30) 2-Butanone	6.83	43	350157	116.723	ug/l 97
31) 2,2-Dichloropropane	6.83	77	197807	16.993	ug/l 96
32) 1,1,1-Trichloroethane	7.57	97	258552	20.523	ug/l 97
33) Carbon Tetrachloride	7.77	117	225610	20.458	ug/l 98
34) Benzene	8.04	78	734763	20.333	ug/l 97
35) Methacrylonitrile	7.17	41	91151	23.547	ug/l 95
36) 1,2-Dichloroethane	8.12	62	218753	20.852	ug/l 98
37) Trichloroethene	8.83	130	201452	20.578	ug/l 94
38) Methylcyclohexane	9.08	83	283700	20.172	ug/l 97
39) 1,2-Dichloropropane	9.12	63	193257	20.480	ug/l 98
40) Dibromomethane	9.21	93	113929	21.349	ug/l 96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\
 Data File : VN053283.D
 Acq On : 4 Jan 2019 15:46
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/7/2019 11:10:06 AM

Quant Time: Jan 05 00:21:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	234501	20.462	ug/l	98
42) Vinyl Acetate	5.90	43	1748958	106.863	ug/l	97
43) Ethyl Acetate	6.93	43	151950	22.681	ug/l #	65
44) Isopropyl Acetate	8.16	43	274852	22.024	ug/l #	78
45) 1,4-Dioxane	9.20	88	33553	439.673	ug/l	95
46) Methyl methacrylate	9.20	41	136899	21.714	ug/l	95
47) n-amyl Acetate	12.07	43	256449	23.399	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	230077	19.670	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	273594	19.864	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	164072	21.443	ug/l	98
51) Ethyl methacrylate	10.43	69	213397	21.399	ug/l	92
52) 1,3-Dichloropropane	10.71	76	281173	21.332	ug/l	99
53) Dibromochloromethane	10.90	129	179446	20.881	ug/l	99
54) 1,2-Dibromoethane	11.00	107	163331	21.160	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	611488	106.847	ug/l	99
56) Bromoform	12.13	173	124655	21.204	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	798072	116.601	ug/l	98
59) 2-Hexanone	10.75	43	541338	114.565	ug/l	97
61) Tetrachloroethene	10.63	164	222590	20.970	ug/l	96
62) Toluene	10.16	91	804419	20.420	ug/l	100
64) Chlorobenzene	11.43	112	507487	20.530	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	178297	20.562	ug/l	98
66) Ethyl Benzene	11.51	91	870164	20.370	ug/l	99
67) m/p-Xylenes	11.62	106	670861	41.523	ug/l	98
68) o-Xylene	11.95	106	320553	20.475	ug/l	99
69) Styrene	11.96	104	531134	20.784	ug/l	99
70) Isopropylbenzene	12.25	105	851387	20.669	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	188322	21.718	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	164494m	21.663	ug/l	
73) Bromobenzene	12.53	156	221253	20.896	ug/l	94
74) n-propylbenzene	12.59	91	991148	21.256	ug/l	98
75) 2-Chlorotoluene	12.67	91	580034	21.004	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	697304	21.340	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	51862	19.438	ug/l	95
78) 4-Chlorotoluene	12.77	91	595357	21.179	ug/l	99
79) tert-butylbenzene	12.99	119	603716	21.185	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	704994	21.527	ug/l	99
81) sec-Butylbenzene	13.17	105	816144	21.628	ug/l	100
82) p-Isopropyltoluene	13.29	119	708182	21.718	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	393116	21.805	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	385317	21.925	ug/l	98
85) n-Butylbenzene	13.62	91	579020	21.835	ug/l	99
86) Hexachloroethane	13.88	117	106595	20.474	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	370376	22.109	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	23011	18.556	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	112263	13.807	ug/l	100
90) Hexachlorobutadiene	15.01	225	95721	19.449	ug/l	99
91) Naphthalene	15.13	128	179572	10.409	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	68781	9.482	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\
Data File : VN053283.D
Acq On : 4 Jan 2019 15:46
Operator : MD\SY
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
1/7/2019 11:10:06 AM

Quant Time: Jan 05 00:21:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 28 10:33:50 2018
Response via : Initial Calibration

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

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

