

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
 Data File : VX042079.D
 Acq On : 27 Jun 2024 16:58
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/01/2024
 Supervised By : Mahesh Dadoda 07/01/2024

Quant Time: Jun 28 04:06:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.898	128	30345	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	171450	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	157322	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	58670	28.086	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.633%	
60) 4-Bromofluorobenzene	11.079	95	72662	29.838	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.467%	
63) Toluene-d8	8.647	98	199510	29.641	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.800%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	35372	18.007	ug/l	96
3) Chloromethane	1.307	50	37231	16.956	ug/l	97
4) Vinyl Chloride	1.374	62	37026	17.243	ug/l	97
5) Bromomethane	1.593	94	17922	15.613	ug/l	96
6) Chloroethane	1.666	64	22790	24.841	ug/l	99
7) Trichlorofluoromethane	1.874	101	51614	19.086	ug/l	99
8) Diethyl Ether	2.136	74	22013	18.809	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	34900	18.984	ug/l	98
10) 1,1-Dichloroethene	2.307	96	34910	18.824	ug/l	98
11) Methyl Iodide	2.441	142	43011	17.820	ug/l	99
12) Methyl Acetate	2.709	43	49184	20.802	ug/l	99
13) Acrolein	2.239	56	36349	76.245	ug/l	99
14) Acrylonitrile	3.069	53	107153	95.484	ug/l	98
15) Acetone	2.392	58	28108	87.556	ug/l	92
16) Carbon Disulfide	2.502	76	72003	17.716	ug/l	99
17) Allyl chloride	2.660	41	52935	18.795	ug/l	96
18) Methylene Chloride	2.788	84	40472	19.026	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	34502	18.572	ug/l	98
20) Diisopropyl ether	3.770	45	110335	19.059	ug/l	98
21) 1,1-Dichloroethane	3.605	63	63314	19.146	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	43811	19.482	ug/l	98
23) tert-Butyl Alcohol	2.989	59	40859	97.931	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	112729	19.651	ug/l	98
25) Chloroform	5.093	83	65579	19.513	ug/l	97
26) Cyclohexane	5.465	56	52594	18.311	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	43281	19.342	ug/l	98
30) 2-Butanone	4.568	43	146438	97.940	ug/l	98
31) 2,2-Dichloropropane	4.465	77	46478	18.956	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	55798	19.671	ug/l	99
33) Carbon Tetrachloride	5.678	117	48334	19.757	ug/l	100
34) Benzene	6.038	78	145566	19.528	ug/l	98
35) Methacrylonitrile	4.928	41	29347	19.541	ug/l	95
36) 1,2-Dichloroethane	6.086	62	45155	19.445	ug/l	99
37) Trichloroethene	7.129	130	39036	19.172	ug/l	99
38) Methylcyclohexane	7.379	83	55468	18.714	ug/l	98
39) 1,2-Dichloropropane	7.434	63	35020	19.722	ug/l	98
40) Dibromomethane	7.580	93	25906	19.722	ug/l	97
41) Bromodichloromethane	7.824	83	47079	20.006	ug/l	98
42) Vinyl Acetate	3.727	43	489075	97.723	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	55989	19.971	ug/l	97
44) Isopropyl Acetate	6.348	43	81984	19.525	ug/l	100
45) 1,4-Dioxane	7.671	88	16739	327.042	ug/l #	94
46) Methyl methacrylate	7.696	41	39888	19.429	ug/l	96
47) n-amyl Acetate	10.842	43	72123	19.138	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	46650	19.254	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	52982	19.494	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	37947	19.868	ug/l	96
51) Ethyl methacrylate	9.116	69	59202	19.512	ug/l	100
52) 1,3-Dichloropropane	9.311	76	62091	19.885	ug/l	98
53) Dibromochloromethane	9.519	129	41729	19.964	ug/l	99
54) 1,2-Dibromoethane	9.610	107	40876	20.295	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	144010	101.971	ug/l	99
56) Bromoform	10.799	173	33538	19.678	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	285740	101.359	ug/l	99
59) 2-Hexanone	9.433	43	219780	101.008	ug/l	98
61) Tetrachloroethene	9.275	164	38378	19.386	ug/l	98
62) Toluene	8.720	91	160380	20.146	ug/l	99
64) Chlorobenzene	10.080	112	107858	19.896	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	38471	20.548	ug/l	99
66) Ethyl Benzene	10.195	91	173149	19.894	ug/l	99
67) m/p-Xylenes	10.299	106	140542	40.144	ug/l	98
68) o-Xylene	10.640	106	70059	20.072	ug/l	99
69) Styrene	10.659	104	116981	20.056	ug/l	100
70) Isopropylbenzene	10.964	105	179978	20.508	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	61733	20.325	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	55000m	22.357	ug/l	
73) Bromobenzene	11.201	156	51343	20.057	ug/l	98
74) n-propylbenzene	11.305	91	191662	19.881	ug/l	99
75) 2-Chlorotoluene	11.366	91	122842	20.066	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	147299	20.034	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16322	17.935	ug/l	94
78) 4-Chlorotoluene	11.457	91	133871	19.685	ug/l	99
79) tert-butylbenzene	11.713	119	159841	20.481	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	148171	20.172	ug/l	100
81) sec-Butylbenzene	11.890	105	184467	20.265	ug/l	100
82) p-Isopropyltoluene	12.006	119	160161	20.078	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	88947	19.487	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	87713	19.306	ug/l	99
85) n-Butylbenzene	12.335	91	116365	18.865	ug/l	100
86) Hexachloroethane	12.536	117	25190	19.337	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	90271	19.556	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12430	19.786	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	58427	18.699	ug/l	98
90) Hexachlorobutadiene	13.725	225	29229	18.983	ug/l	95
91) Naphthalene	13.774	128	187633	19.873	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	62841	19.419	ug/l	97

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

