

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV082924\
 Data File : VV037181.D
 Acq On : 30 Aug 2024 00:41
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.00mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050380

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/30/2024
 Supervised By : Semsettin Yesilyurt 08/30/2024

Quant Time: Aug 30 01:45:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM082624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 30 01:20:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	587756	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	572806	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	290370	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	201191	37.420	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.840%
7) Chloroethane-d5	1.532	69	171677	41.315	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.620%
11) 1,1-Dichloroethene-d2	2.060	65	93725	41.475	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.960%
21) 2-Butanone-d5	3.793	46	189144m	90.844	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.840%
24) Chloroform-d	4.243	84	402168	47.793	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.580%
26) 1,2-Dichloroethane-d4	4.937	65	244675	46.172	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.340%
32) Benzene-d6	4.953	84	772519	44.652	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.300%
36) 1,2-Dichloropropane-d6	5.986	67	247981	45.762	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.520%
41) Toluene-d8	7.236	98	692653	44.360	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.720%
43) trans-1,3-Dichloroprop...	7.551	79	103931	41.456	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.920%
47) 2-Hexanone-d5	8.024	63	132960	89.904	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	89.900%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	307507	46.790	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.580%
66) 1,2-Dichlorobenzene-d4	11.554	152	261834	45.023	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.040%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	250631	50.461	ug/L	99
3) Chloromethane	1.217	50	261906	46.888	ug/L	99
5) Vinyl chloride	1.282	62	269973	51.485	ug/L	100
6) Bromomethane	1.487	94	151586	51.591	ug/L	100
8) Chloroethane	1.548	64	167516	52.228	ug/L	99
9) Trichlorofluoromethane	1.712	101	357918	52.304	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	210873	51.810	ug/L	100
12) 1,1-Dichloroethene	2.069	96	197344	51.464	ug/L	96
13) Acetone	2.111	43	140696	63.008	ug/L	98
14) Carbon disulfide	2.240	76	555849	47.749	ug/L	100
15) Methyl Acetate	2.372	43	193143	51.593	ug/L	99
16) Methylene chloride	2.442	84	229301	53.000	ug/L	98
17) trans-1,2-Dichloroethene	2.690	96	205990	51.746	ug/L	99
18) Methyl tert-butyl Ether	2.706	73	647925	51.742	ug/L	100
19) 1,1-Dichloroethane	3.105	63	421587	53.328	ug/L	99
20) cis-1,2-Dichloroethene	3.809	96	226641	51.524	ug/L	98
22) 2-Butanone	3.873	43	198220	80.625	ug/L	98
23) Bromochloromethane	4.140	128	115934	53.691	ug/L	97
25) Chloroform	4.272	83	420667	52.542	ug/L	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.037	62	311443	53.030	ug/L	100
29) Cyclohexane	4.574	56	335180	49.767	ug/L	99
30) 1,1,1-Trichloroethane	4.507	97	342174	51.916	ug/L	99
31) Carbon tetrachloride	4.728	117	287560	51.706	ug/L	99
33) Benzene	5.002	78	881969	53.353	ug/L	100
34) Trichloroethene	5.828	95	226646	51.945	ug/L	98
35) Methylcyclohexane	6.043	83	351037	49.518	ug/L	98
37) 1,2-Dichloropropane	6.088	63	228545	51.570	ug/L	99
38) Bromodichloromethane	6.429	83	298629	52.574	ug/L	99
39) cis-1,3-Dichloropropene	6.950	75	339486	48.542	ug/L	99
40) 4-Methyl-2-pentanone	7.156	43	449635	99.797	ug/L	99
42) Toluene	7.310	91	922476	53.596	ug/L	99
44) trans-1,3-Dichloropropene	7.577	75	300924	48.139	ug/L	99
45) 1,1,2-Trichloroethane	7.764	97	215034	52.123	ug/L	98
46) Tetrachloroethene	7.899	164	163569	52.249	ug/L	98
48) 2-Hexanone	8.072	43	311104	89.283	ug/L	98
49) Dibromochloromethane	8.172	129	212138	51.354	ug/L	99
50) 1,2-Dibromoethane	8.278	107	217374	52.070	ug/L	99
51) Chlorobenzene	8.809	112	593897	52.121	ug/L	100
52) Ethylbenzene	8.940	91	1020514	52.492	ug/L	100
53) m,p-Xylene	9.069	106	384982	53.446	ug/L	98
54) o-Xylene	9.474	106	374114	53.045	ug/L	99
55) Styrene	9.490	104	663118	54.187	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.172	83	313836	51.364	ug/L	98
59) Bromoform	9.661	173	134377	49.698	ug/L	100
60) Isopropylbenzene	9.860	105	1001612	53.208	ug/L	99
61) 1,2,3-Trichloropropane	10.204	75	232361	51.441	ug/L	100
62) 1,3,5-Trimethylbenzene	10.471	105	809400	52.554	ug/L	99
63) 1,2,4-Trimethylbenzene	10.847	105	811030	52.767	ug/L	99
64) 1,3-Dichlorobenzene	11.111	146	448182	51.560	ug/L	98
65) 1,4-Dichlorobenzene	11.204	146	465015	52.269	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	446039	52.187	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.358	75	51833	46.013	ug/L	98
69) 1,3,5-Trichlorobenzene	12.577	180	299313	49.487	ug/L	100
70) 1,2,4-trichlorobenzene	13.191	180	280094	49.180	ug/L	99
71) Naphthalene	13.432	128	811165	49.324	ug/L	100
72) 1,2,3-Trichlorobenzene	13.673	180	278706	49.657	ug/L	99

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

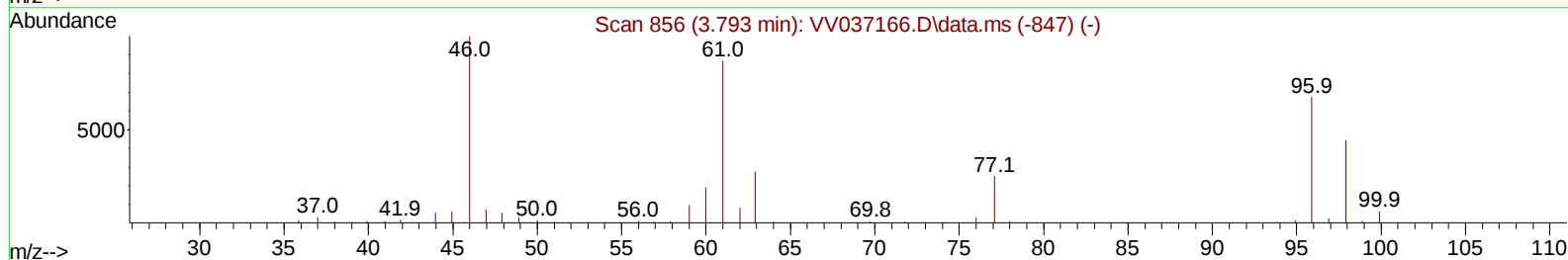
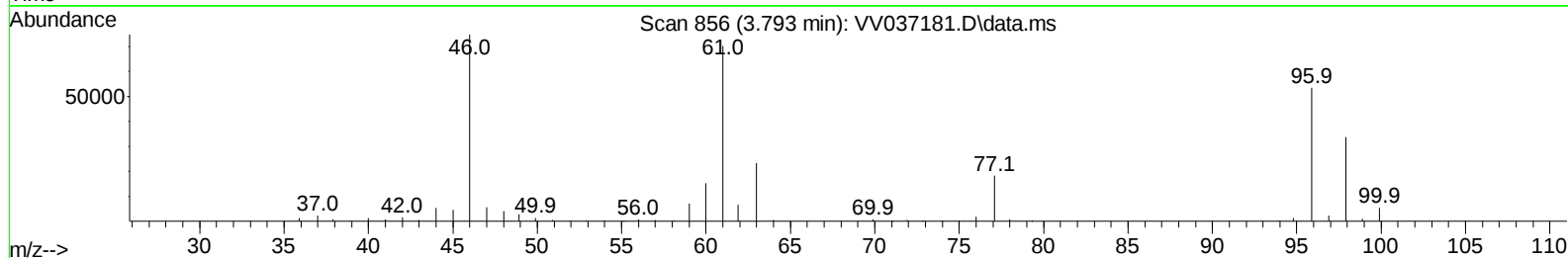
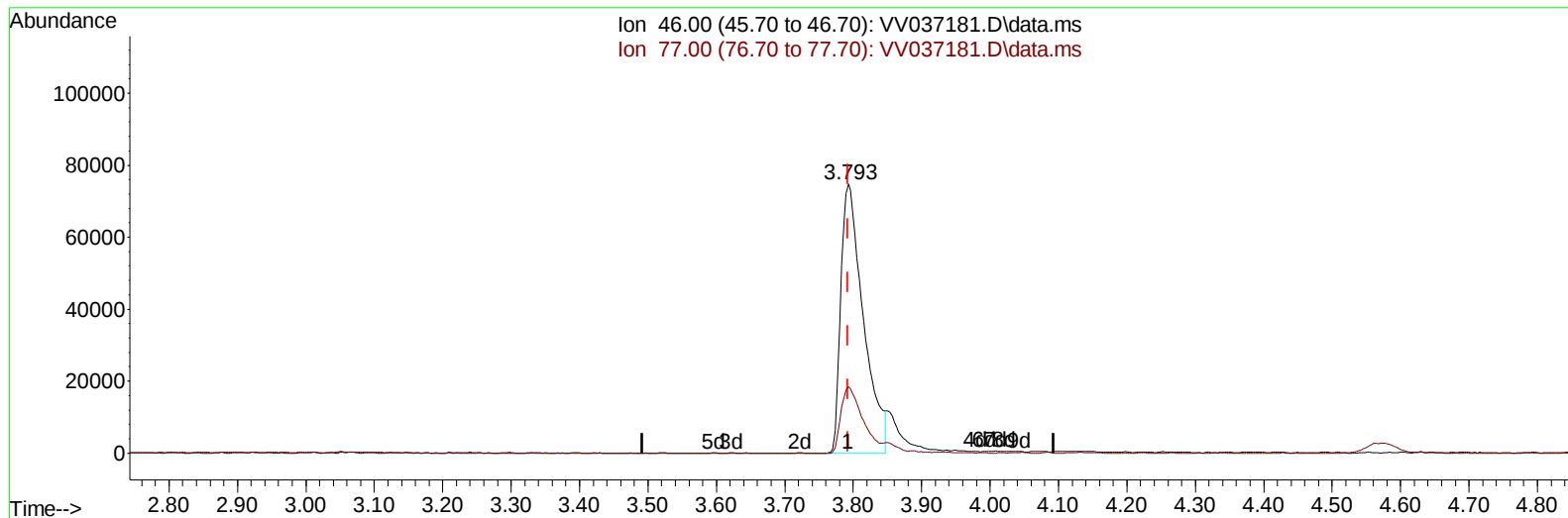
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TIC: VV037181.D\data.ms

(21) 2-Butanone-d5 (S)

3.793min (+ 0.000) 82.50 ug/L

response 171772

Ion	Exp%	Act%
46.00	100.00	100.00
77.00	20.60	23.63
0.00	0.00	0.00
0.00	0.00	0.00

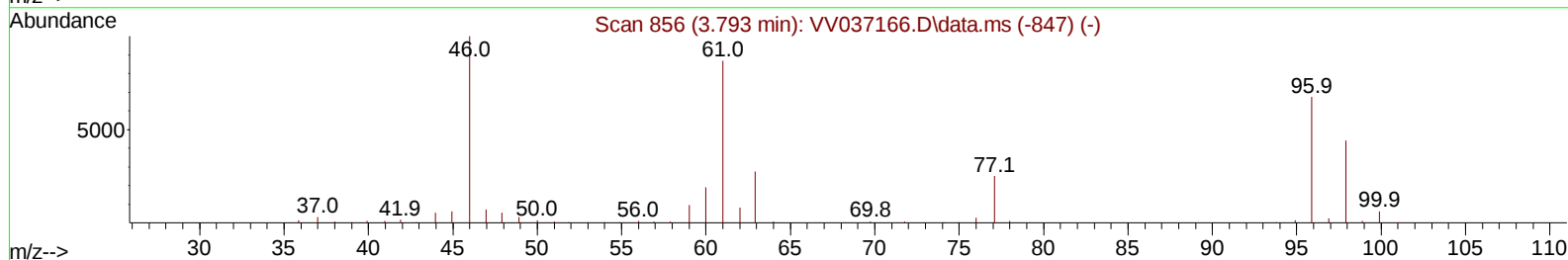
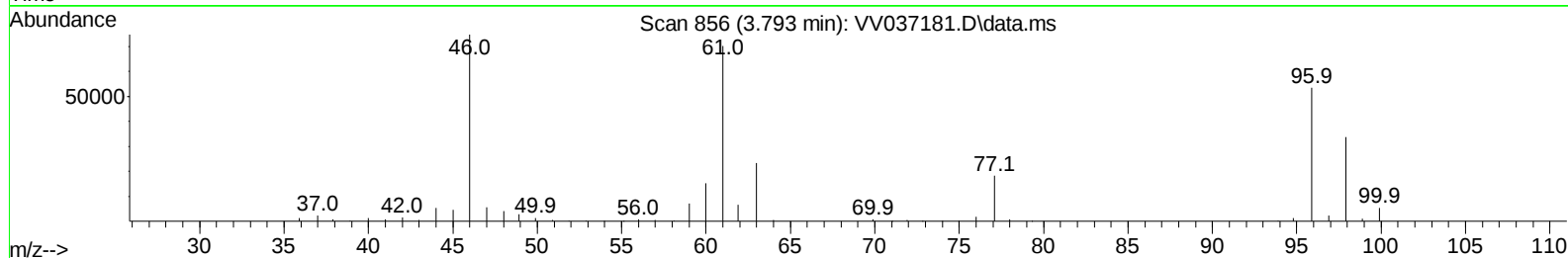
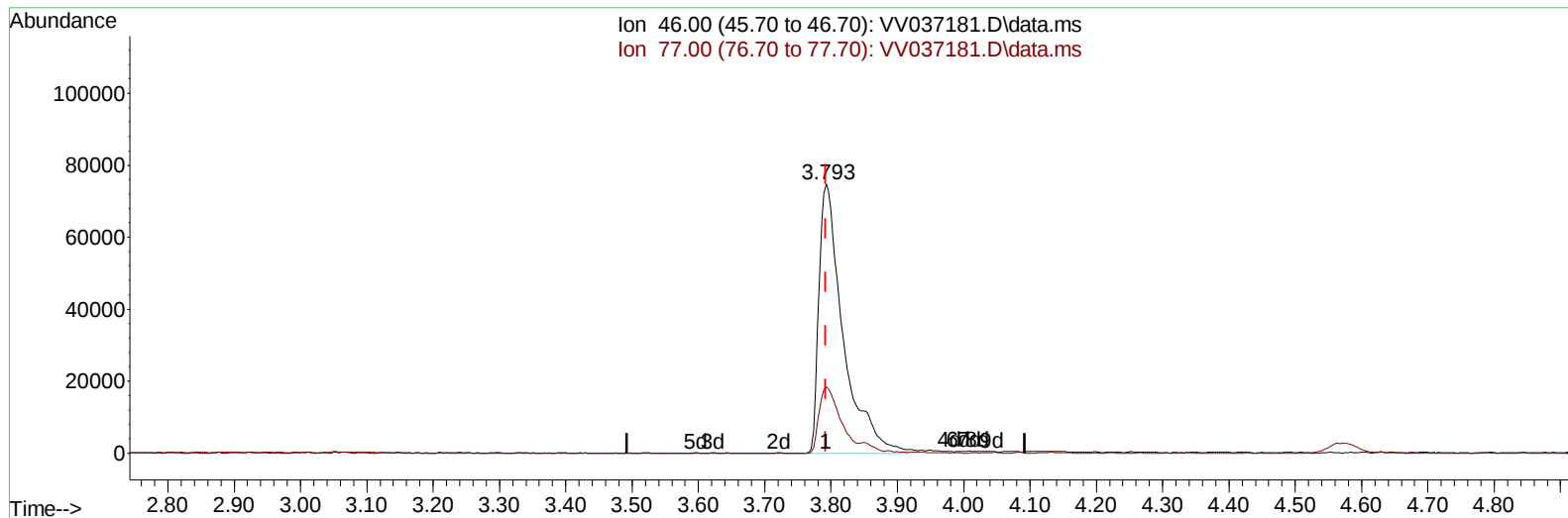
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TIC: VV037181.D\data.ms

(21) 2-Butanone-d5 (S)

3.793min (+ 0.000) 90.84 ug/L m

response 189144

Ion	Exp%	Act%
46.00	100.00	100.00
77.00	20.60	21.46
0.00	0.00	0.00
0.00	0.00	0.00

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

Internal Standards						
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28) Chlorobenzene-d5	8.780	117	572806	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	290370	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	201191	37.420	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	74.840%	
7) Chloroethane-d5	1.532	69	171677	41.315	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	82.620%	
11) 1,1-Dichloroethene-d2	2.060	65	93725	41.475	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	82.960%	
21) 2-Butanone-d5	3.793	46	189144m	90.844	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	=	90.840%	
24) Chloroform-d	4.243	84	402168	47.793	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	95.580%	
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Spiked Amount 50.000	Range 70	- 125	Recovery	=	92.340%	
32) Benzene-d6	4.953	84	772519	44.652	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	89.300%	
36) 1,2-Dichloropropane-d6	5.986	67	247981	45.762	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	91.520%	
41) Toluene-d8	7.236	98	692653	44.360	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	88.720%	
43) trans-1,3-Dichloroprop...	7.551	79	103931	41.456	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	82.920%	
47) 2-Hexanone-d5	8.024	63	132960	89.904	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	89.900%	
56) 1,1,2,2-Tetrachloroeth...	10.146	84	307507	46.790	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	93.580%	
66) 1,2-Dichlorobenzene-d4	11.554	152	261834	45.023	ug/L	0.00
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Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	250631	50.461	ug/L	99
3) Chloromethane	1.217	50	261906	46.888	ug/L	99
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18) Methyl tert-butyl Ether	2.706	73	647925	51.742	ug/L	100
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35) Methylcyclohexane	6.043	83	351037	49.518	ug/L	98
37) 1,2-Dichloropropane	6.088	63	228545	51.570	ug/L	99
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39) cis-1,3-Dichloropropene	6.950	75	339486	48.542	ug/L	99
40) 4-Methyl-2-pentanone	7.156	43	449635	99.797	ug/L	99
42) Toluene	7.310	91	922476	53.596	ug/L	99
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45) 1,1,2-Trichloroethane	7.764	97	215034	52.123	ug/L	98
46) Tetrachloroethene	7.899	164	163569	52.249	ug/L	98
48) 2-Hexanone	8.072	43	311104	89.283	ug/L	98
49) Dibromochloromethane	8.172	129	212138	51.354	ug/L	99
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52) Ethylbenzene	8.940	91	1020514	52.492	ug/L	100
53) m,p-Xylene	9.069	106	384982	53.446	ug/L	98
54) o-Xylene	9.474	106	374114	53.045	ug/L	99
55) Styrene	9.490	104	663118	54.187	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.172	83	313836	51.364	ug/L	98
59) Bromoform	9.661	173	134377	49.698	ug/L	100
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61) 1,2,3-Trichloropropane	10.204	75	232361	51.441	ug/L	100
62) 1,3,5-Trimethylbenzene	10.471	105	809400	52.554	ug/L	99
63) 1,2,4-Trimethylbenzene	10.847	105	811030	52.767	ug/L	99
64) 1,3-Dichlorobenzene	11.111	146	448182	51.560	ug/L	98
65) 1,4-Dichlorobenzene	11.204	146	465015	52.269	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	446039	52.187	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.358	75	51833	46.013	ug/L	98
69) 1,3,5-Trichlorobenzene	12.577	180	299313	49.487	ug/L	100
70) 1,2,4-trichlorobenzene	13.191	180	280094	49.180	ug/L	99
71) Naphthalene	13.432	128	811165	49.324	ug/L	100
72) 1,2,3-Trichlorobenzene	13.673	180	278706	49.657	ug/L	99

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

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