

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019234.D
 Acq On : 03 Nov 2020 14:24
 Operator : SY/MD
 Sample : L4485-12
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 7:00:27 PM

Quant Time: Nov 04 07:30:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 07:03:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	239601	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	234728	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	119057	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	84952	45.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.88%
7) Chloroethane-d5	1.58	69	73385	50.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.30%
11) 1,1-Dichloroethene-d2	2.12	63	136654	39.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.84%
21) 2-Butanone-d5	3.91	46	114129	111.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.94%
24) Chloroform-d	4.38	84	167873	48.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.02%
26) 1,2-Dichloroethane-d4	5.06	65	120268	49.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.76%
32) Benzene-d6	5.07	84	315571	48.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.38%
36) 1,2-Dichloropropane-d6	6.09	67	95051	49.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.24%
41) Toluene-d8	7.33	98	285294	47.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.50%
43) trans-1,3-Dichloropropene-	7.64	79	53636	48.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.90%
47) 2-Hexanone-d5	8.11	63	72889	97.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.02%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	120829	46.86	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.72%
66) 1,2-Dichlorobenzene-d4	11.65	152	122494	51.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3672	2.502	ug/L	99
3) Chloromethane	1.25	50	3998	2.616	ug/L	99
5) Vinyl chloride	1.32	62	4307	2.707	ug/L #	61
6) Bromomethane	1.53	94	2831	2.648	ug/L	91
8) Chloroethane	1.60	64	2981	2.865	ug/L	98
9) Trichlorofluoromethane	1.77	101	6643	2.522	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4292	3.430	ug/L	90
12) 1,1-Dichloroethene	2.13	96	4247	3.283	ug/L #	1
13) Acetone	2.20	43	4965	6.403	ug/L	95
14) Carbon disulfide	2.31	76	9668	2.603	ug/L	96
15) Methyl Acetate	2.46	43	3772	2.511	ug/L	100
16) Methylene chloride	2.52	84	4294	2.793	ug/L	96
17) trans-1,2-Dichloroethene	2.78	96	3752	2.674	ug/L	95
18) Methyl tert-butyl Ether	2.79	73	11651	2.362	ug/L	96
19) 1,1-Dichloroethane	3.22	63	6582	2.394	ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	4036m	2.603	ug/L	
22) 2-Butanone	4.02	43	3774m	3.834	ug/L	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	1985m	2.325	ug/L	
25) Chloroform	4.40	83	8720	2.958	ug/L	85
27) 1,2-Dichloroethane	5.16	62	6260	2.498	ug/L #	85
29) Cyclohexane	4.70	56	4799	2.389	ug/L	96
30) 1,1,1-Trichloroethane	4.64	97	6705	2.463	ug/L	97
31) Carbon tetrachloride	4.86	117	5594	2.380	ug/L	97
33) Benzene	5.13	78	13947	2.391	ug/L	100
34) Trichloroethene	5.95	95	3993	2.519	ug/L	86
35) Methylcyclohexane	6.15	83	4994	2.603	ug/L	95
37) 1,2-Dichloropropane	6.21	63	3859	2.479	ug/L #	84
38) Bromodichloromethane	6.54	83	4929	2.200	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	5855m	2.350	ug/L	
40) 4-Methyl-2-pentanone	7.25	43	9070	4.337	ug/L	97
42) Toluene	7.41	91	17096	2.711	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	6124	2.399	ug/L	89
45) 1,1,2-Trichloroethane	7.87	97	3772	2.451	ug/L	94
46) Tetrachloroethene	8.00	164	3109	2.404	ug/L	96
48) 2-Hexanone	8.17	43	10510	6.647	ug/L #	82
49) Dibromochloromethane	8.27	129	4372	2.382	ug/L	99
50) 1,2-Dibromoethane	8.38	107	3846	2.411	ug/L #	84
51) Chlorobenzene	8.90	112	10291	2.440	ug/L	98
52) Ethylbenzene	9.04	91	15420	2.217	ug/L	94
53) m,p-Xylene	9.16	106	5990	2.300	ug/L	96
54) o-Xylene	9.57	106	5540	2.158	ug/L	97
55) Styrene	9.59	104	9340	2.044	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.26	83	5847	2.512	ug/L #	98
59) Bromoform	9.75	173	2820	2.134	ug/L #	91
60) Isopropylbenzene	9.95	105	14304	2.292	ug/L	99
61) 1,2,3-Trichloropropane	10.29	75	4572	2.472	ug/L	98
62) 1,3,5-Trimethylbenzene	10.56	105	11202	2.155	ug/L	97
63) 1,2,4-Trimethylbenzene	10.94	105	10358	2.037	ug/L	94
64) 1,3-Dichlorobenzene	11.21	146	8221	2.519	ug/L	90
65) 1,4-Dichlorobenzene	11.29	146	8587	2.543	ug/L	89
67) 1,2-Dichlorobenzene	11.67	146	8653	2.591	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.45	75	1411	2.615	ug/L #	85
69) 1,3,5-Trichlorobenzene	12.67	180	5547	2.368	ug/L	97
70) 1,2,4-trichlorobenzene	13.29	180	4821	2.187	ug/L	99
71) Naphthalene	13.53	128	10525	1.693	ug/L	97
72) 1,2,3-Trichlorobenzene	13.77	180	4496	2.058	ug/L	99

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

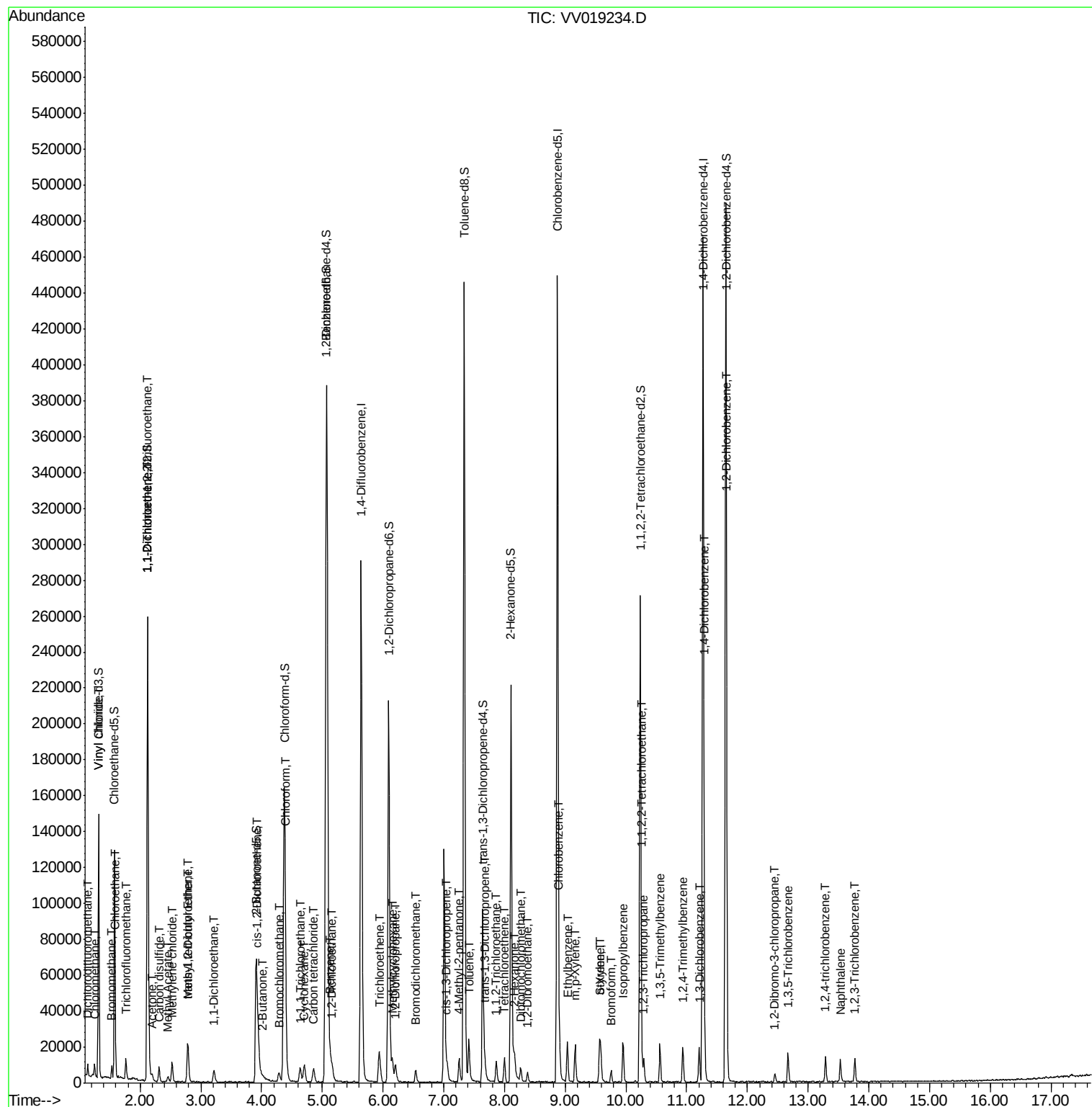
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Data File : VV019234.D
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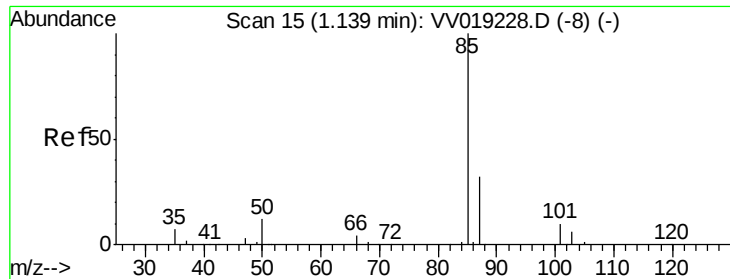
Instrument :
MSVOA_V
ClientSampleID :
MDL-WATER-05

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#2

Dichlorodifluoromethane

Concen: 2.502 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tot Ion: 85 Resp: 3672

Ion Ratio Lower Upper

85 100

87 32.0 25.9 38.9

Instrument :

MSVOA_V

ClientSampleId :

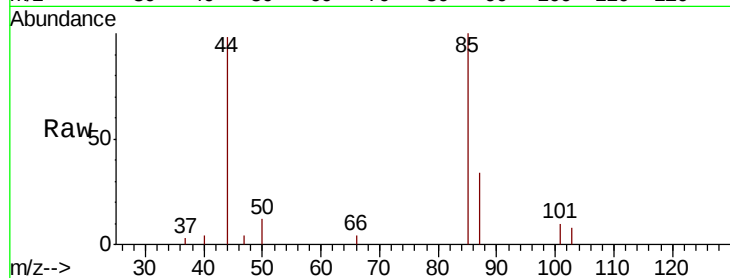
MDL-WATER-05

Manual Integrations

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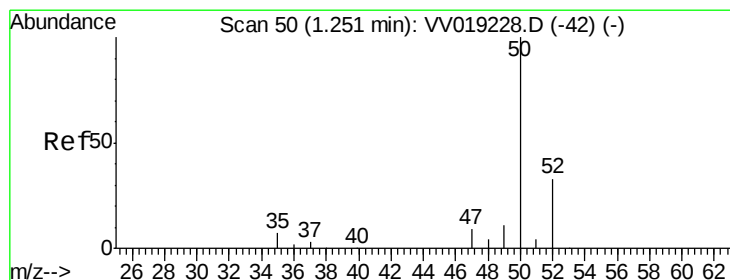
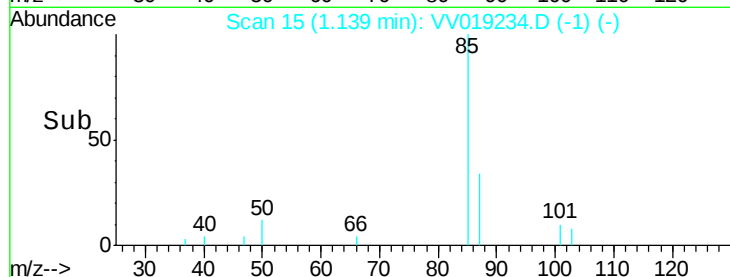
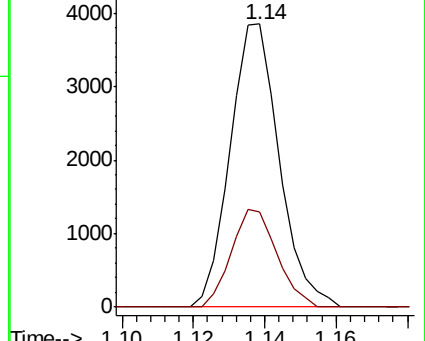
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Abundance Ion 85.00 (84.70 to 85.70): VV019228.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019228.D (-8) (-)



#3

Chloromethane

Concen: 2.616 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019234.D

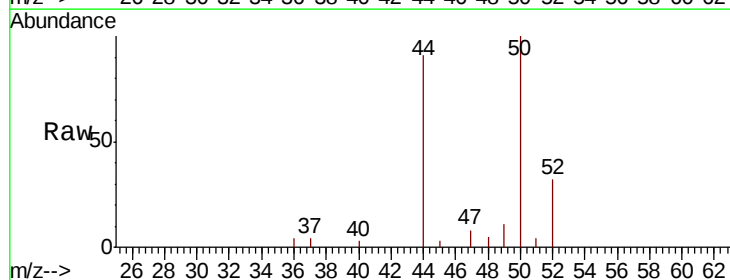
Acq: 03 Nov 2020 14:24

Tgt Ion: 50 Resp: 3998

Ion Ratio Lower Upper

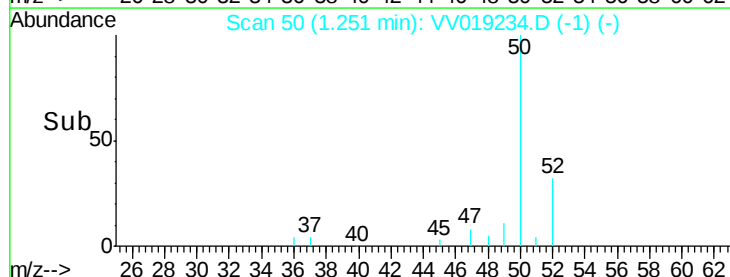
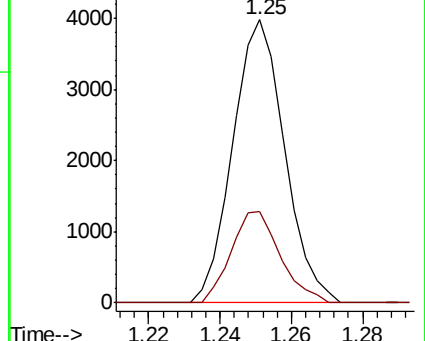
50 100

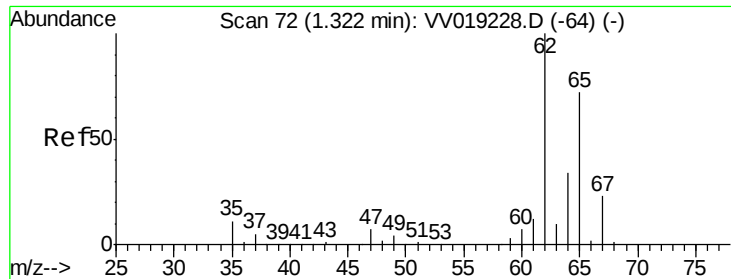
52 32.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019228.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019228.D (-42) (-)





#5

Vinyl chloride

Concen: 2.707 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion: 62 Resp: 4307

Ion Ratio Lower Upper

62 100

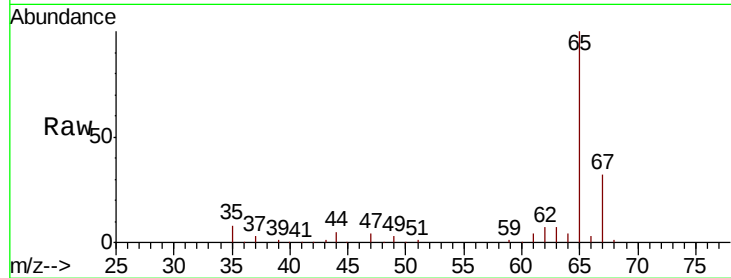
64 55.3 23.3 43.3#

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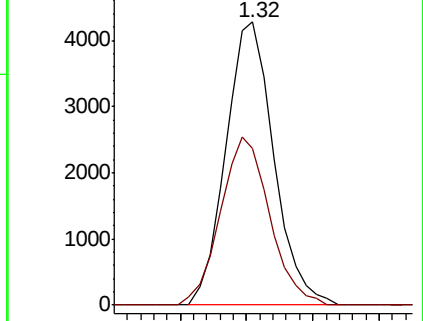
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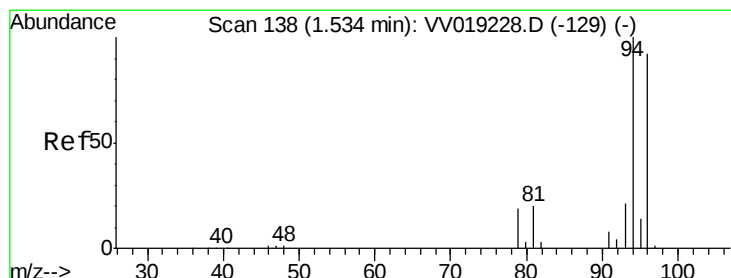
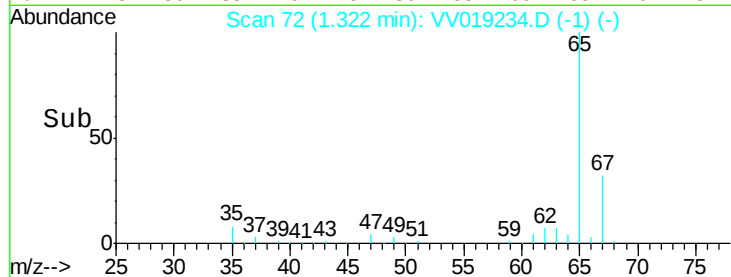


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



Time-->



#6

Bromomethane

Concen: 2.648 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019234.D

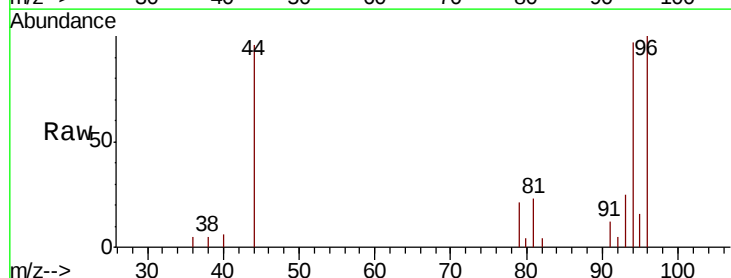
Acq: 03 Nov 2020 14:24

Tgt Ion: 94 Resp: 2831

Ion Ratio Lower Upper

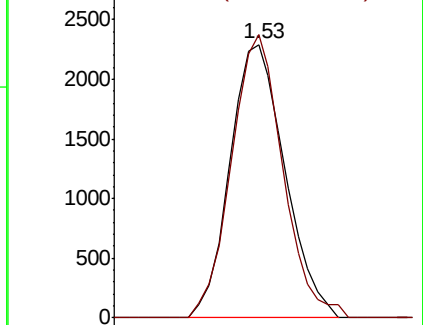
94 100

96 103.6 66.4 123.2

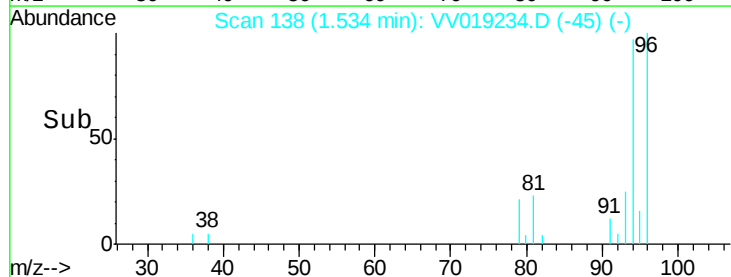


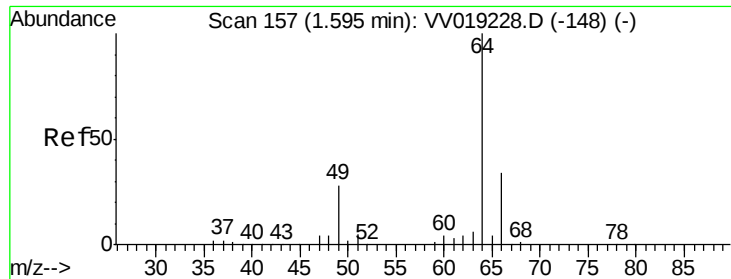
Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



Time-->





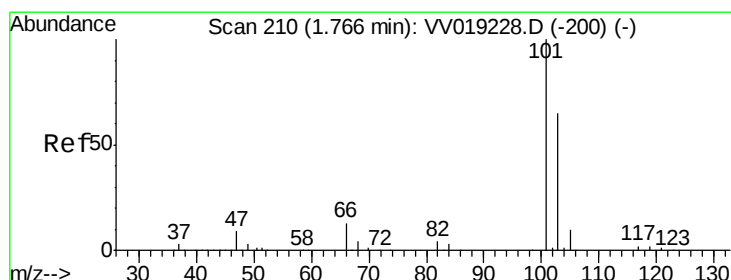
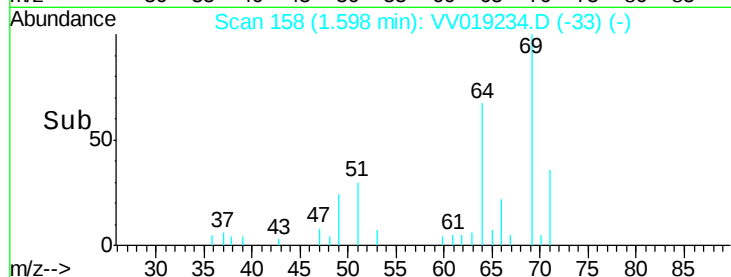
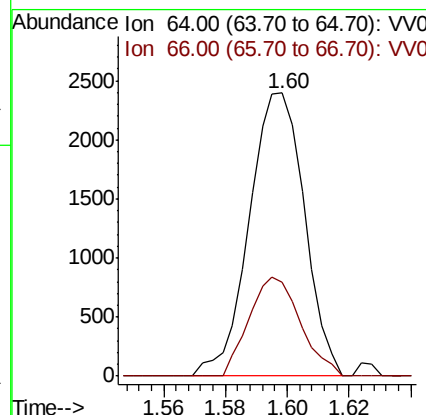
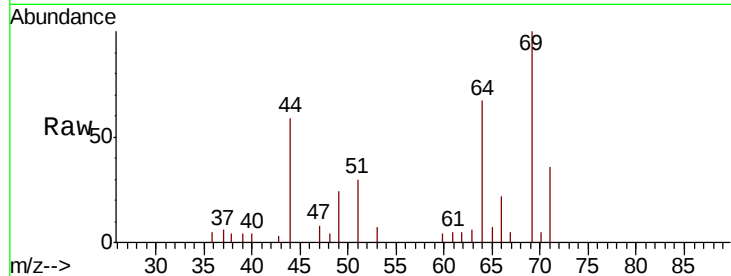
#8
Chloroethane
Concen: 2.865 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion: 64 Resp: 2981
Ion Ratio Lower Upper
64 100
66 33.3 22.5 41.9

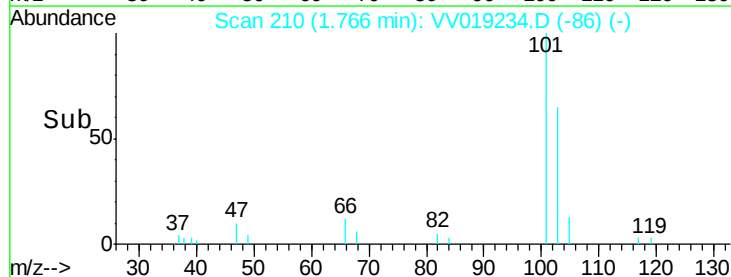
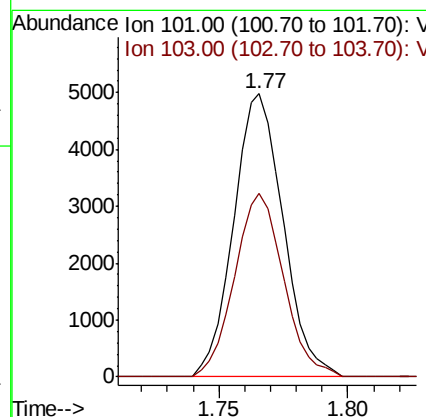
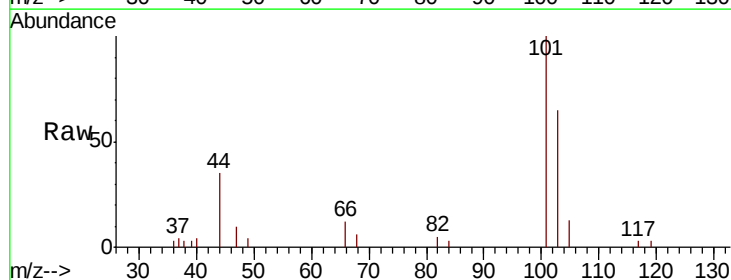
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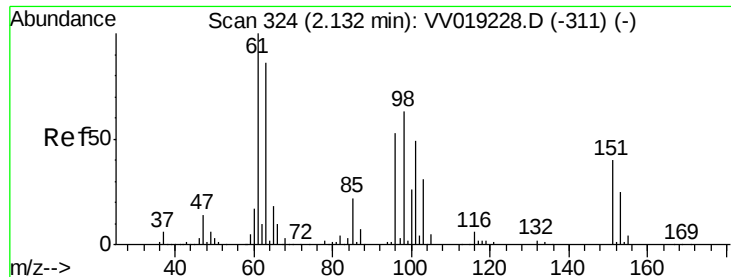
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#9
Trichlorofluoromethane
Concen: 2.522 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 101 Resp: 6643
Ion Ratio Lower Upper
101 100
103 64.0 52.3 78.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.430 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

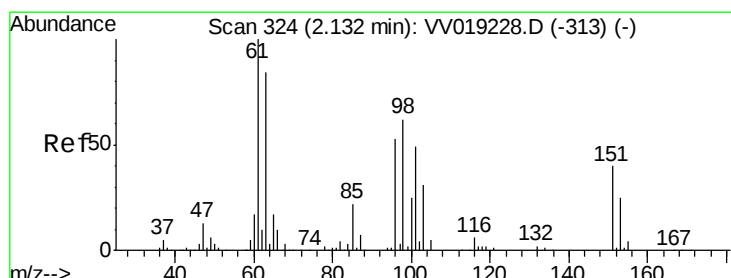
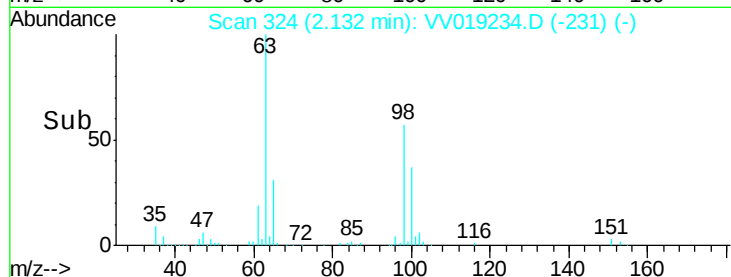
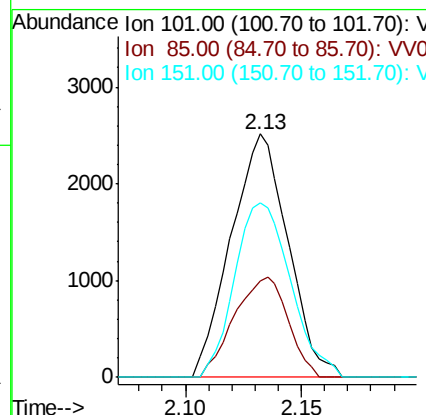
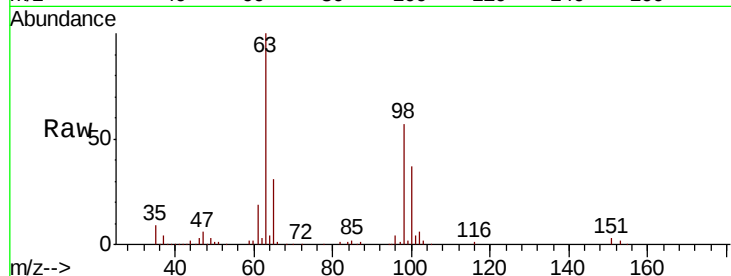
ClientSampleId :

MDL-WATER-05

Tot Ion:	101	Resp:	4292
Ion	Ratio	Lower	Upper
101	100		
85	38.7	35.6	53.4
151	70.3	64.1	96.1

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.283 ug/L

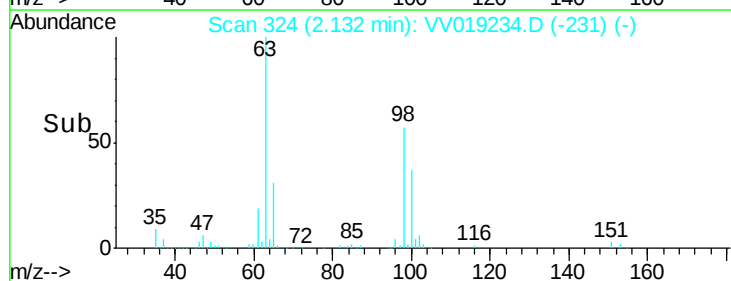
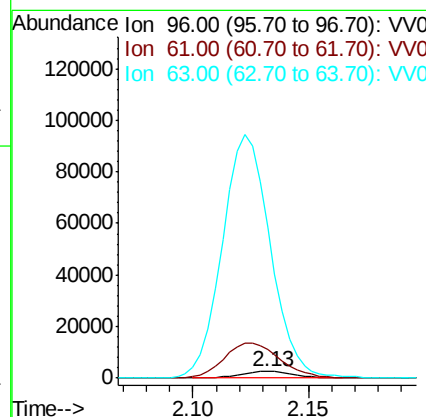
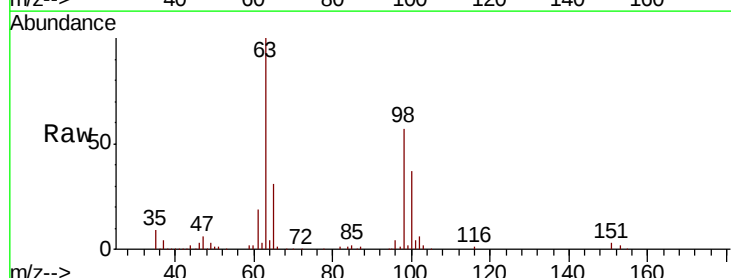
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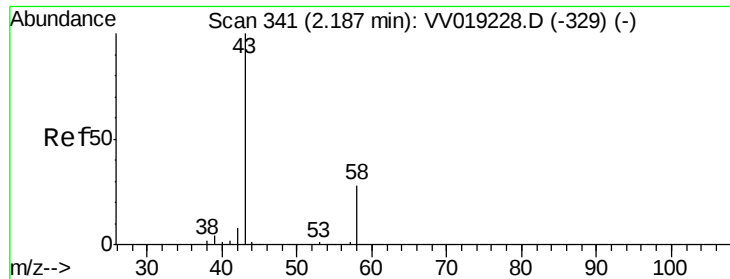
Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tgt Ion:	96	Resp:	4247
Ion	Ratio	Lower	Upper
96	100		
61	417.9	133.6	248.0#
63	2224.0	103.0	191.2#





#13

Acetone

Concen: 6.403 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tot Ion: 43 Resp: 4965

Ion Ratio Lower Upper

43 100

58 26.3 0.0 57.8

Instrument :

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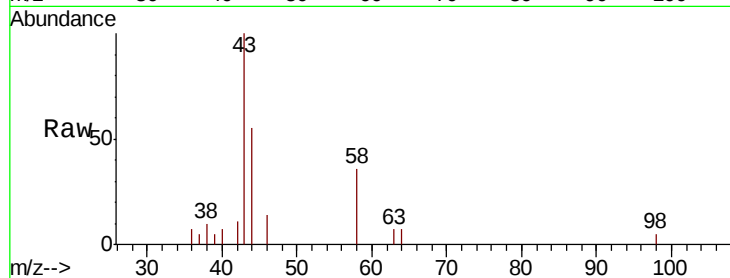
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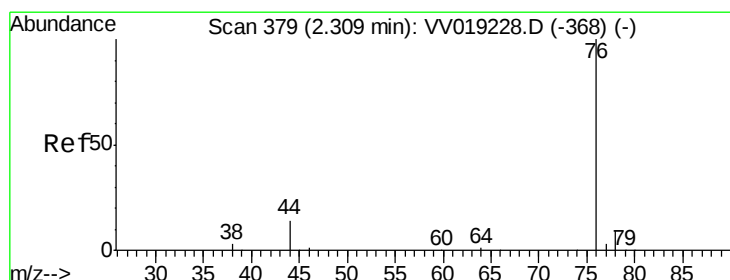
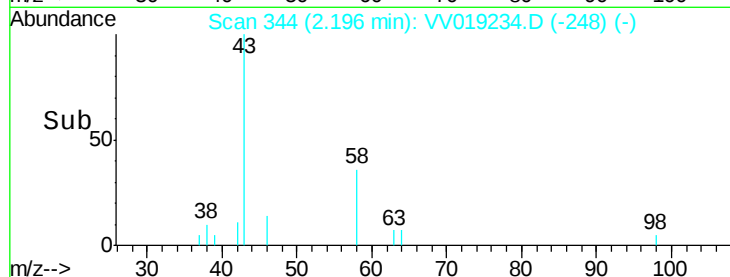
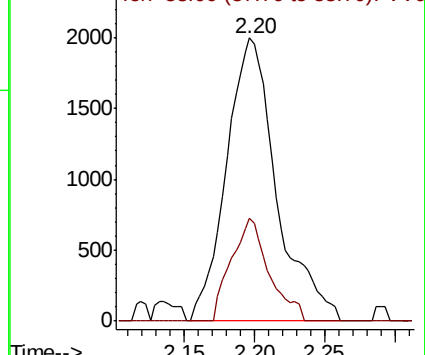
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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 2.603 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019234.D

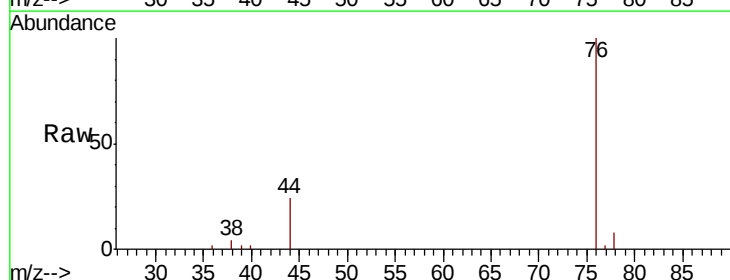
Acq: 03 Nov 2020 14:24

Tgt Ion: 76 Resp: 9668

Ion Ratio Lower Upper

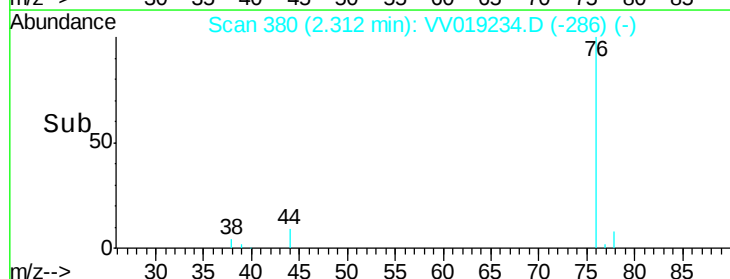
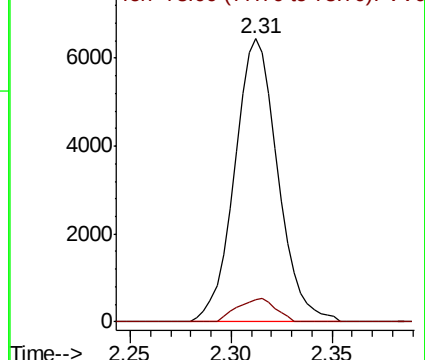
76 100

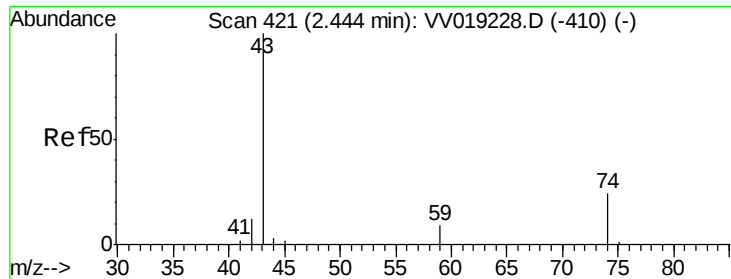
78 7.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





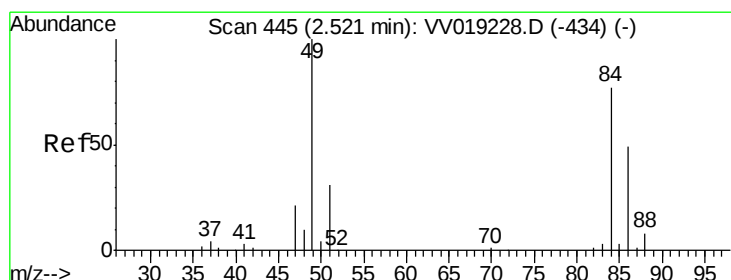
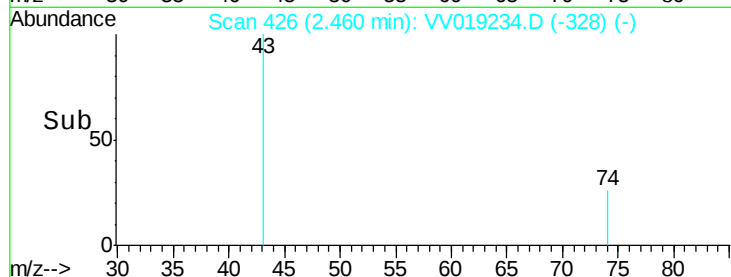
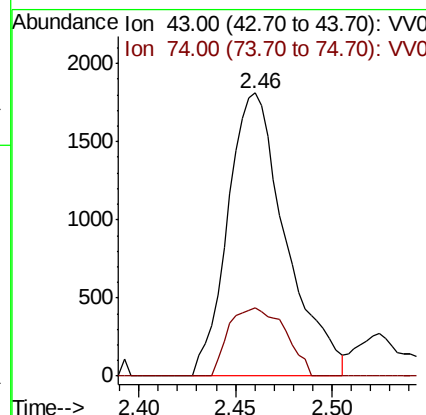
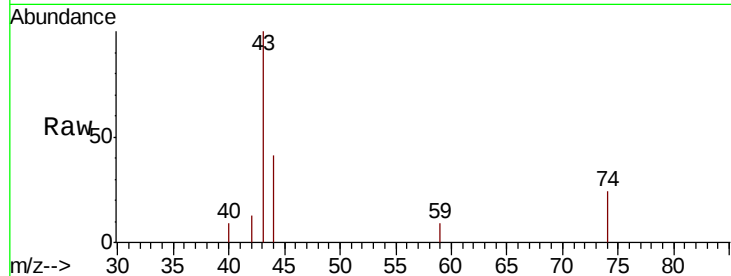
#15
Methvl Acetate
Concen: 2.511 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.02 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion: 43 Resp: 3772
Ion Ratio Lower Upper
43 100
74 23.4 18.8 28.2

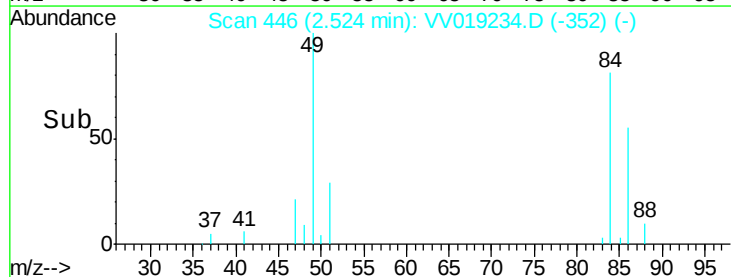
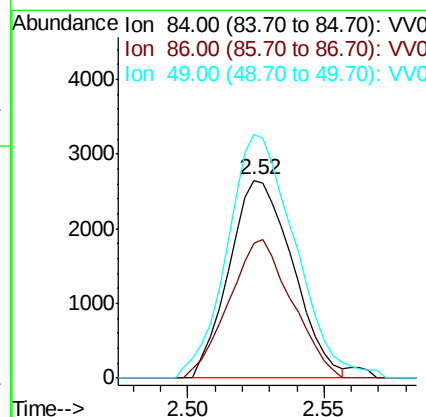
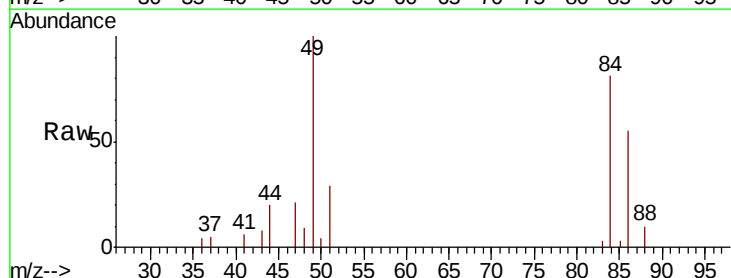
Manual Integrations
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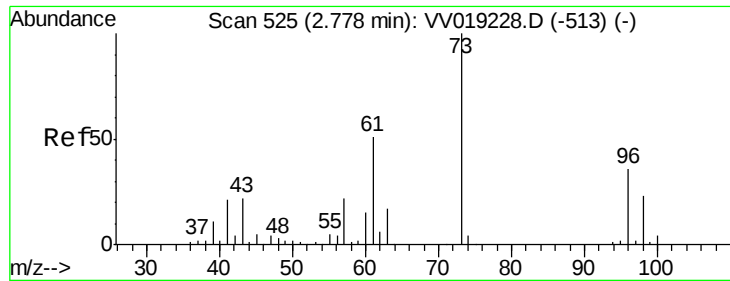
MMDadoda
11/5/2020 7:00:27 PM



#16
Methylene chloride
Concen: 2.793 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 84 Resp: 4294
Ion Ratio Lower Upper
84 100
86 68.2 45.6 84.8
49 123.0 89.3 165.9





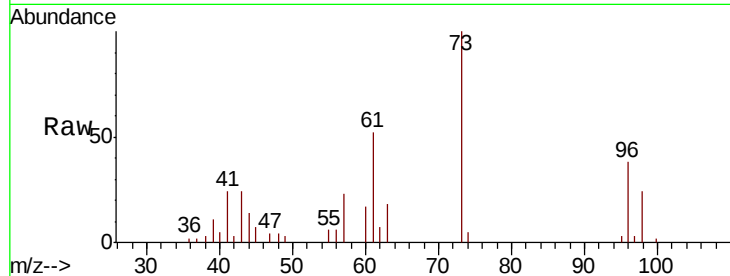
#17
trans-1,2-Dichloroethene
Concen: 2.674 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

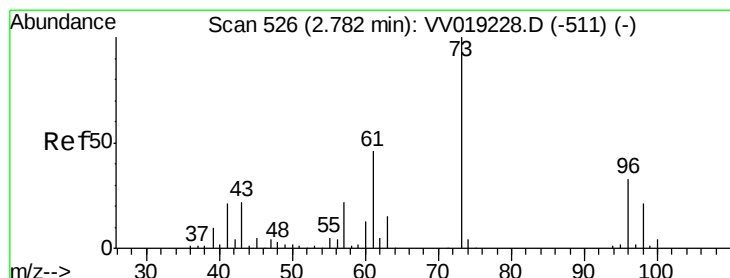
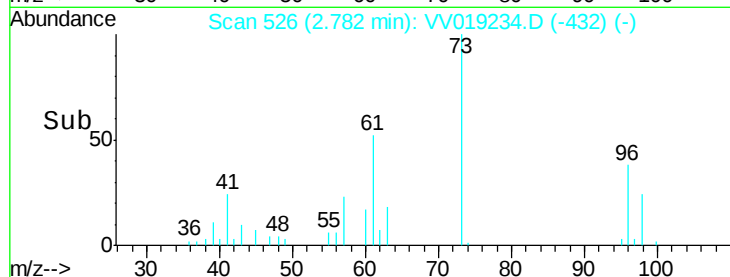
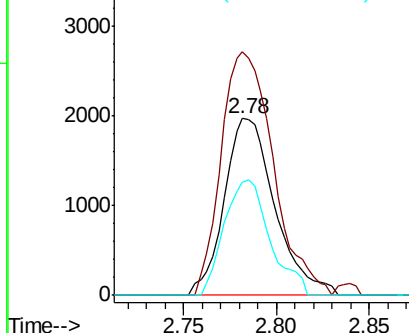
Tot Ion	Ratio	Lower	Upper
96	100		
61	137.9	100.7	187.1
98	64.3	42.9	79.7

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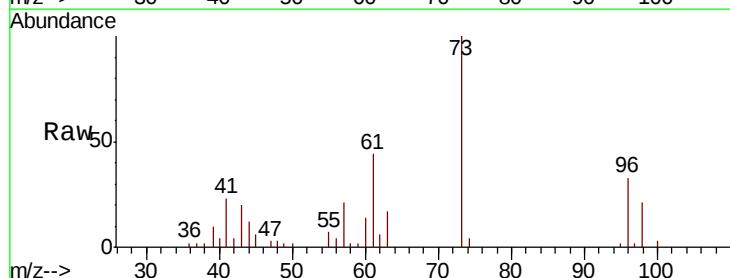


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

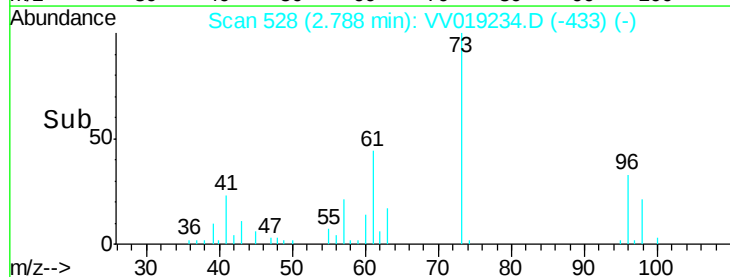
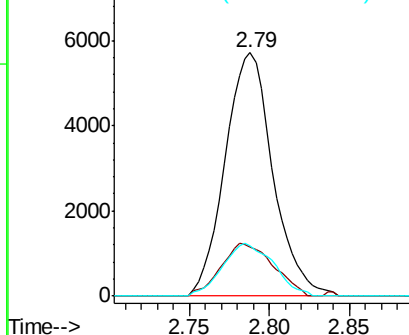


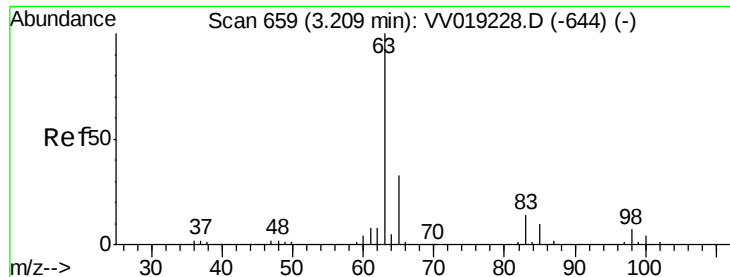
#18
Methyl tert-butyl Ether
Concen: 2.362 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
73	100		
43	23.8	17.9	26.9
57	23.4	17.1	25.7



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





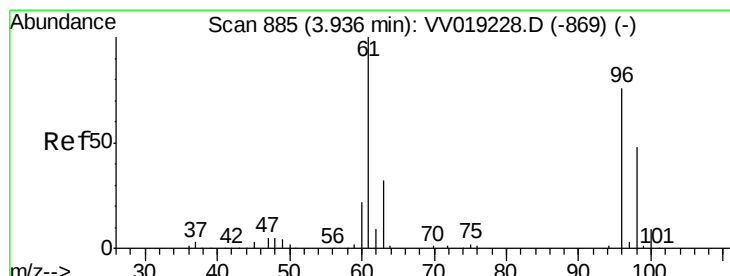
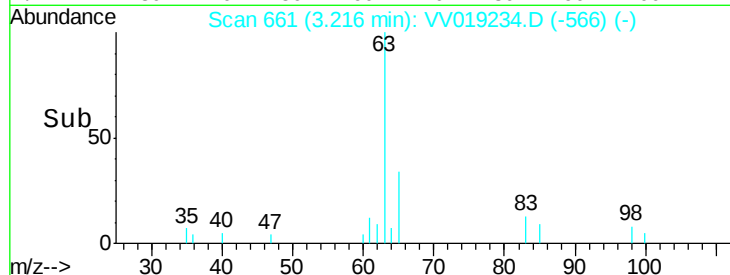
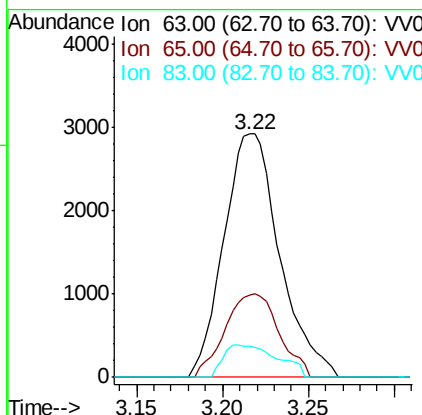
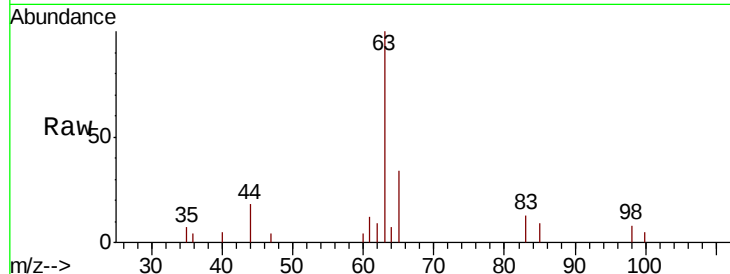
#19
 1,1-Dichloroethane
 Concen: 2.394 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion:	63	Resp:	6582
Ion	Ratio	Lower	Upper
63	100		
65	34.0	21.8	40.6
83	12.6	9.5	17.7

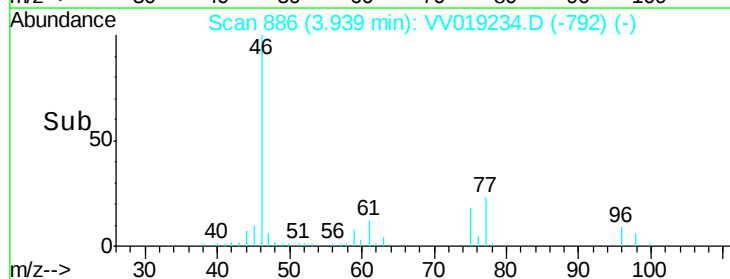
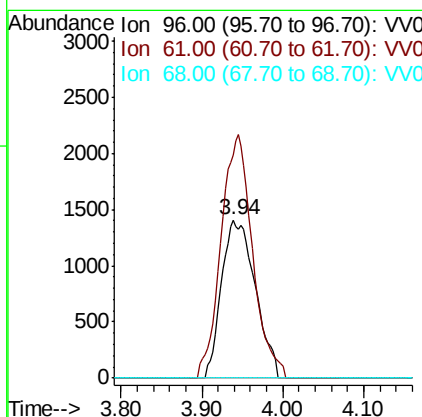
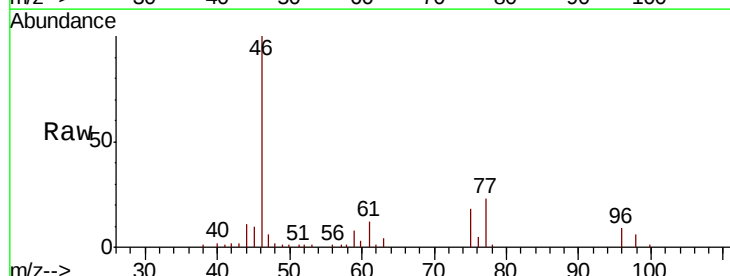
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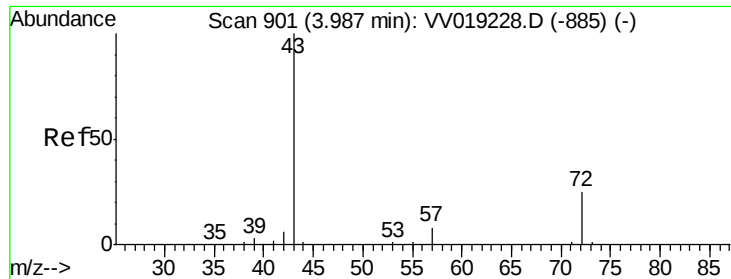
MMDadoda
 11/5/2020 7:00:27 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.603 ug/L m
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion:	96	Resp:	4036
Ion	Ratio	Lower	Upper
96	100		
61	140.6	95.6	177.6
68	0.0	0.0	0.0





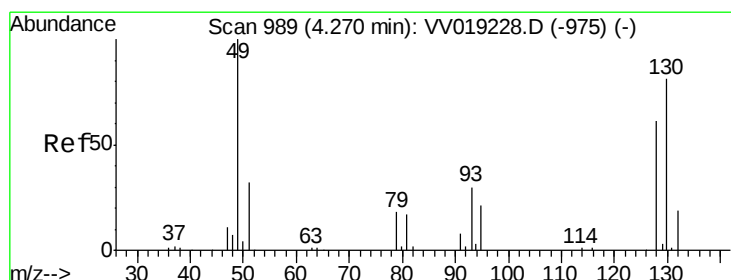
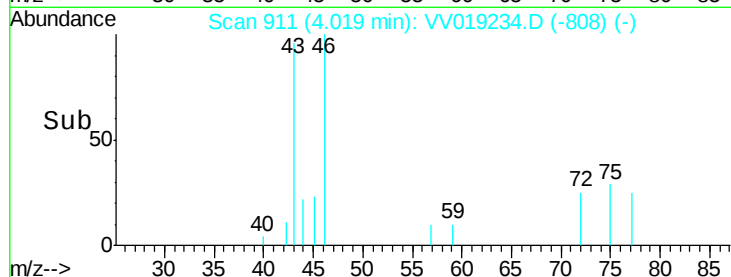
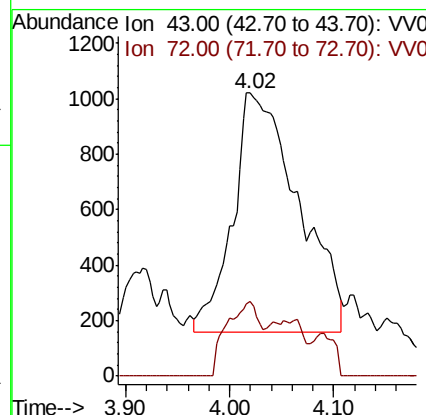
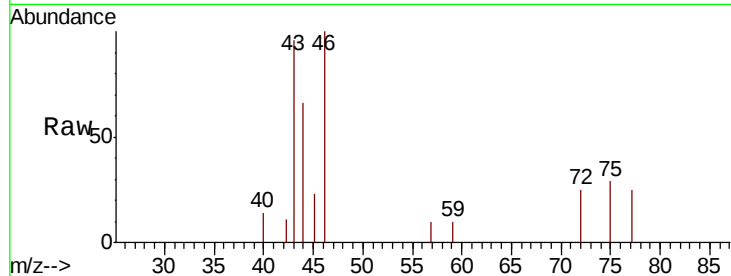
#22
2-Butanone
Concen: 3.834 ug/L m
RT: 4.02 min Scan# 911
Delta R.T. 0.03 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion: 43 Resp: 3774
Ion Ratio Lower Upper
43 100
72 5.3 12.7 38.0#

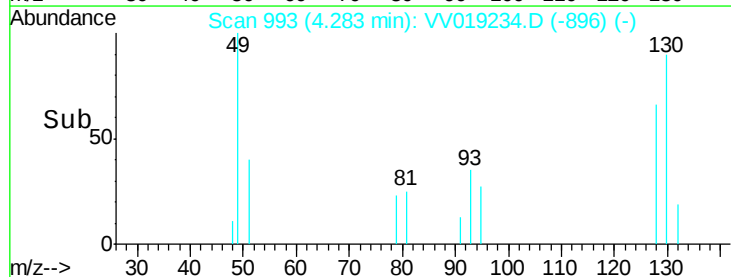
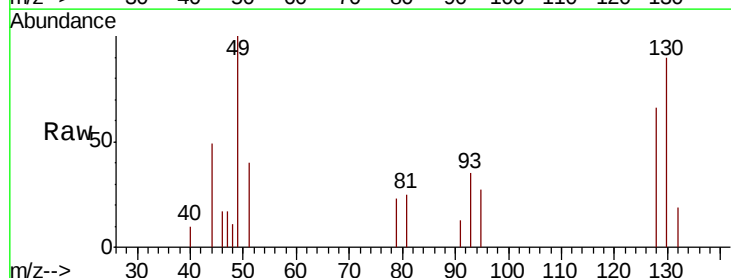
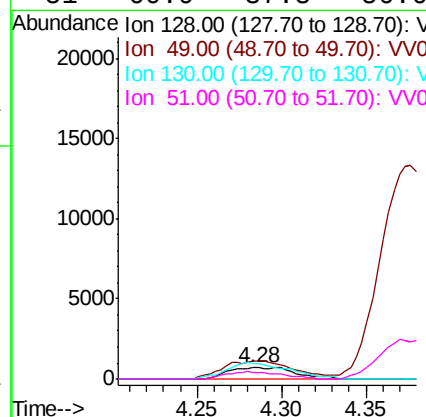
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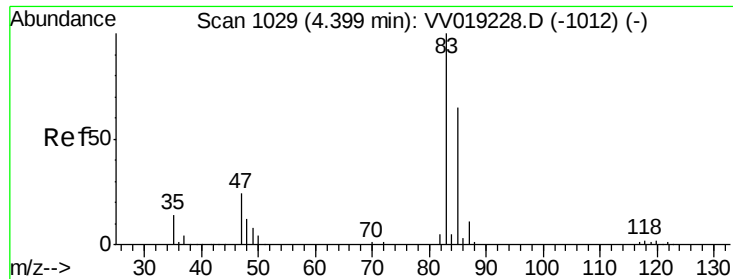
MMDadoda
11/5/2020 7:00:27 PM



#23
Bromochloromethane
Concen: 2.325 ug/L m
RT: 4.28 min Scan# 993
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 128 Resp: 1985
Ion Ratio Lower Upper
128 100
49 152.0 108.8 202.2
130 137.1 88.5 164.3
51 60.9 37.8 56.6#





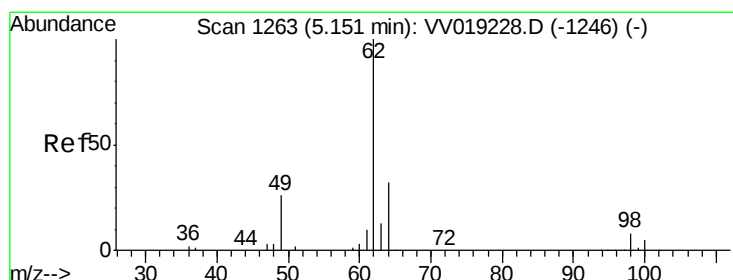
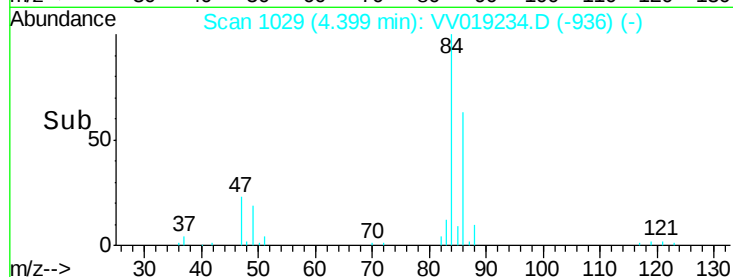
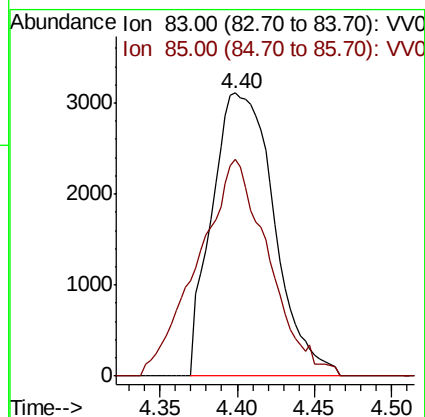
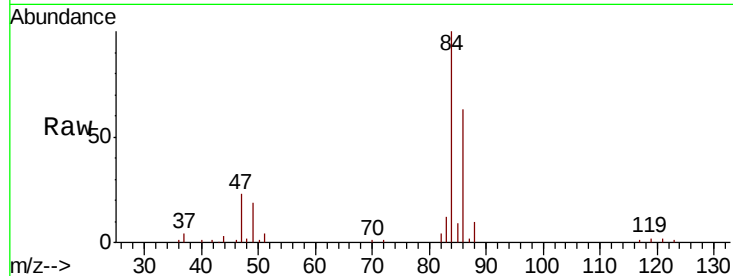
#25
Chloroform
Concen: 2.958 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion: 83 Resp: 8720
Ion Ratio Lower Upper
83 100
85 76.6 45.4 84.4

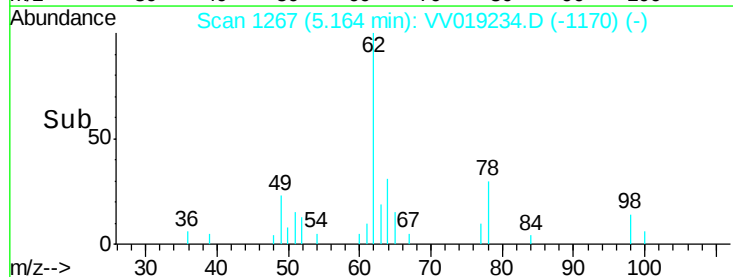
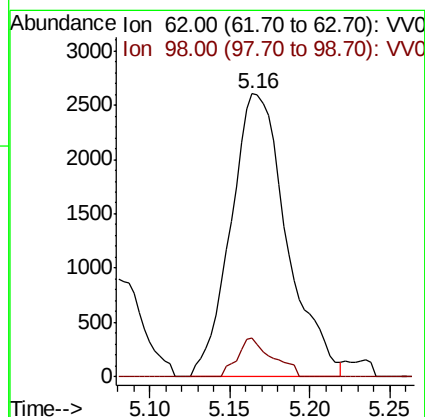
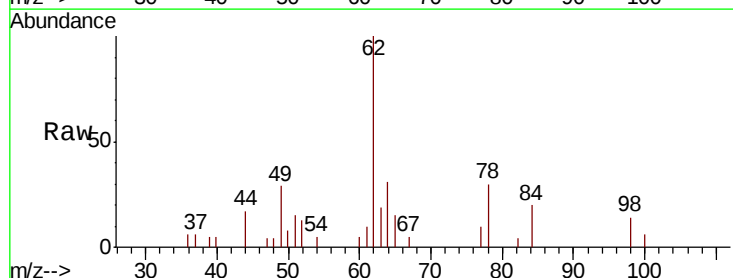
Manual Integrations
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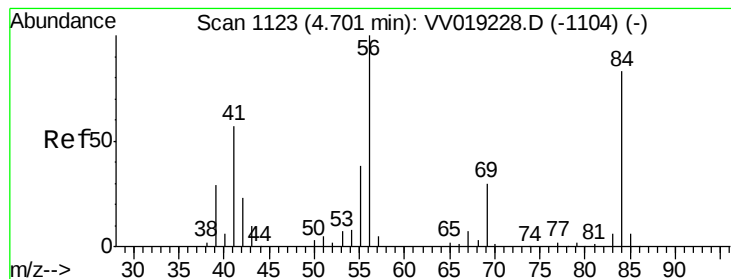
MMDadoda
11/5/2020 7:00:27 PM



#27
1,2-Dichloroethane
Concen: 2.498 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 62 Resp: 6260
Ion Ratio Lower Upper
62 100
98 13.7 6.8 10.2#





#29

Cyclohexane

Concen: 2.389 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

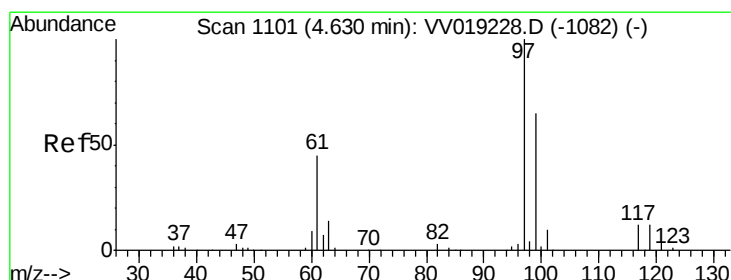
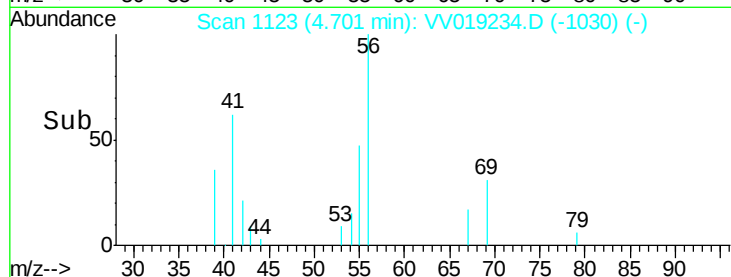
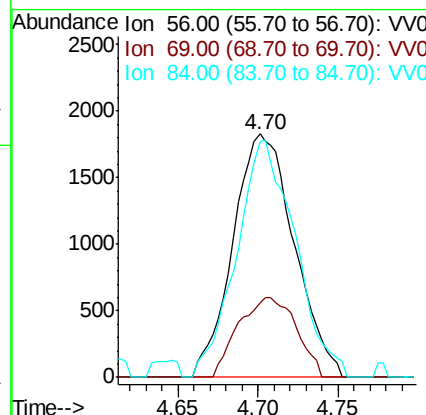
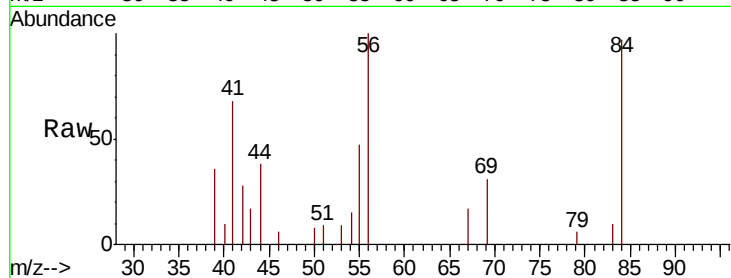
ClientSampleId :

MDL-WATER-05

Tot Ion:	56	Resp:	4799
Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.6	36.8
84	93.6	70.5	105.7

Manual Integrations
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#30

1,1,1-Trichloroethane

Concen: 2.463 ug/L

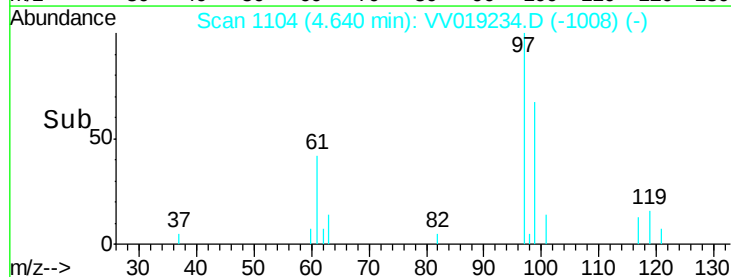
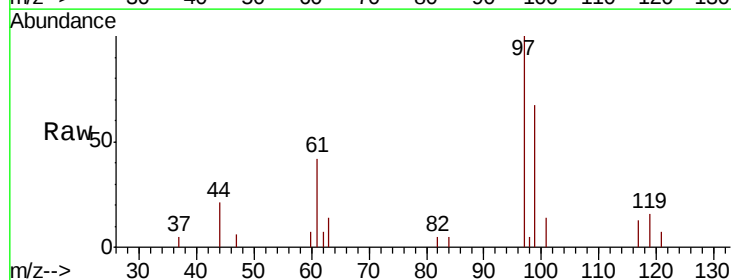
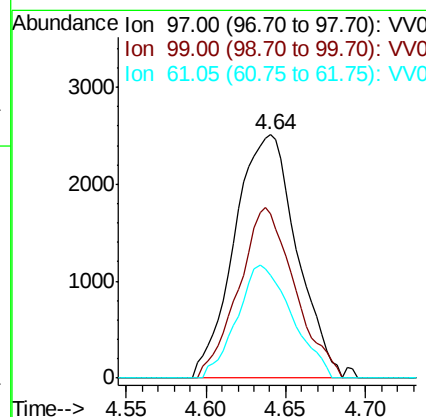
RT: 4.64 min Scan# 1104

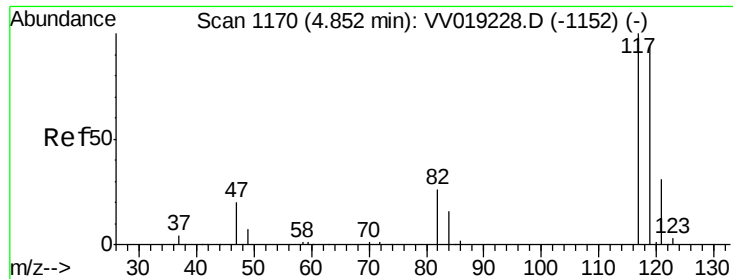
Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tgt Ion:	97	Resp:	6705
Ion	Ratio	Lower	Upper
97	100		
99	63.0	52.0	78.0
61	40.9	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.380 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion:117 Resp: 5594

Ion Ratio Lower Upper

117 100

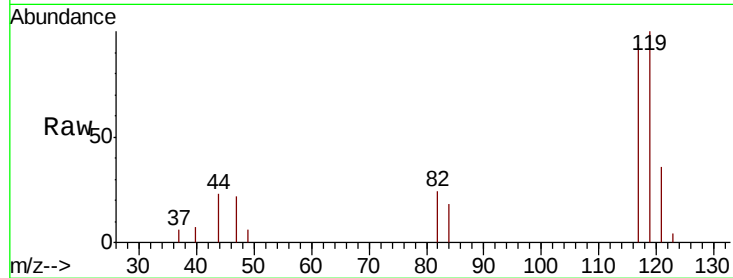
119 99.9 77.8 116.6

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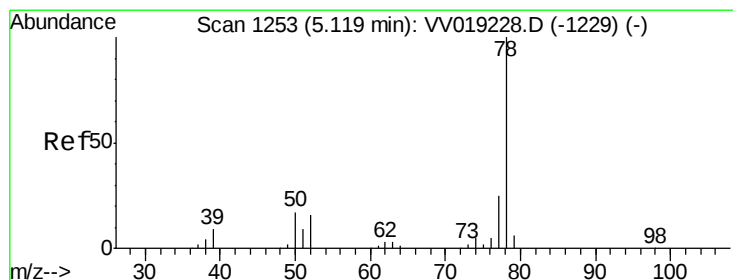
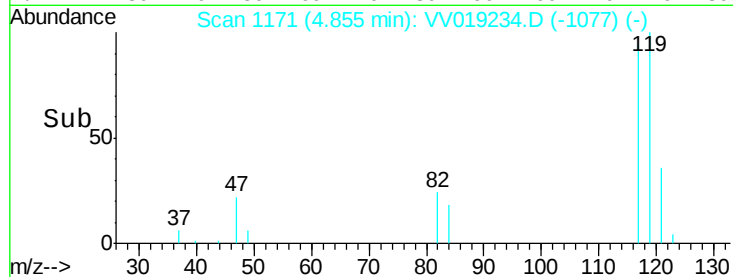
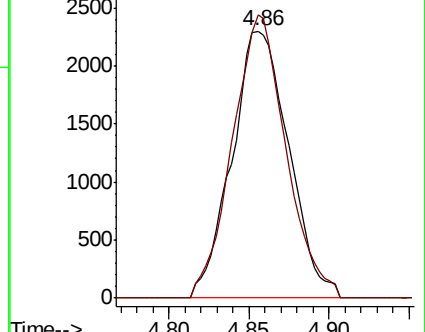
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.391 ug/L

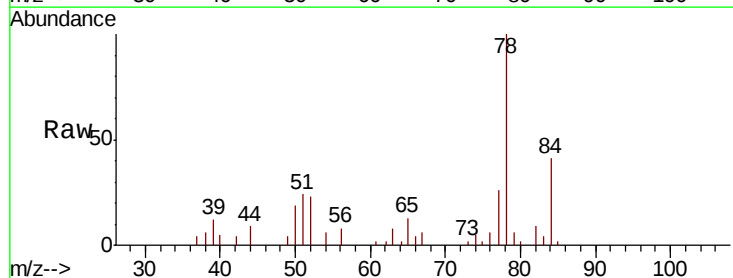
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

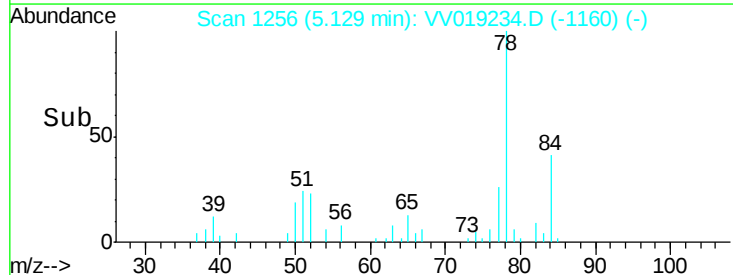
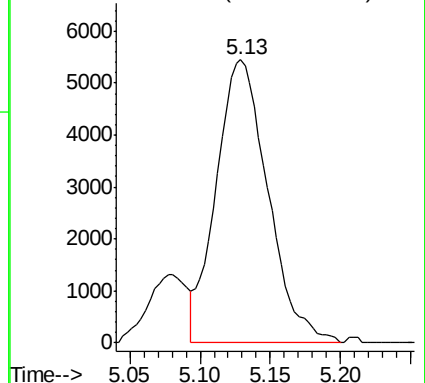
Lab File: VV019234.D

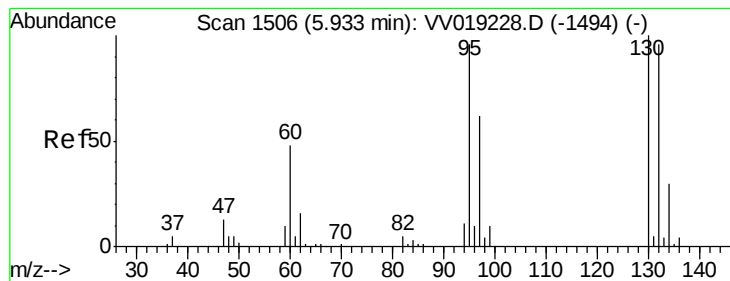
Acq: 03 Nov 2020 14:24

Tgt Ion: 78 Resp: 13947



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.519 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion: 95 Resp: 3993

Ion Ratio Lower Upper

95 100

97 56.8 45.4 84.4

132 79.9 68.5 127.3

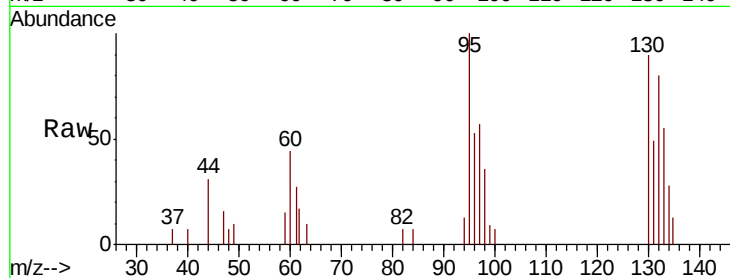
130 89.7 72.0 133.6

Manual Integrations

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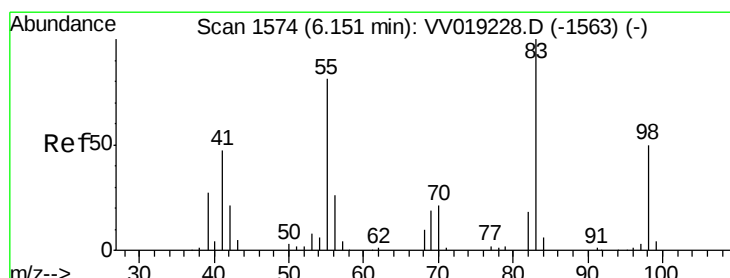
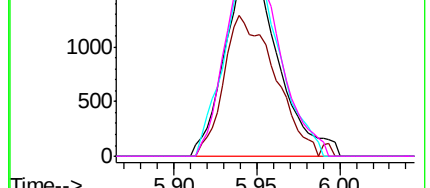
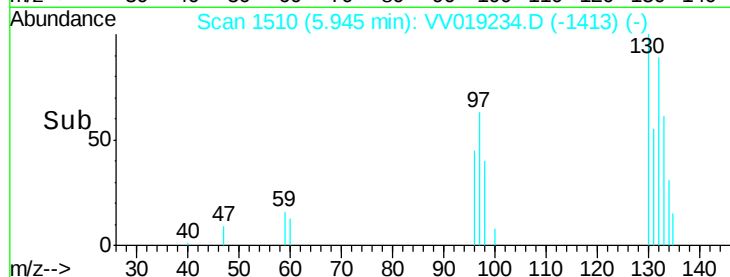
Abundance Ion 95.00 (94.70 to 95.70): VV019234.D (-1413) (-)

Ion 97.00 (96.70 to 97.70): VV019234.D (-1413) (-)

Ion 132.00 (131.70 to 132.70): VV019234.D (-1413) (-)

Ion 130.00 (129.70 to 130.70): VV019234.D (-1413) (-)

Time-->



#35

Methylcyclohexane

Concen: 2.603 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

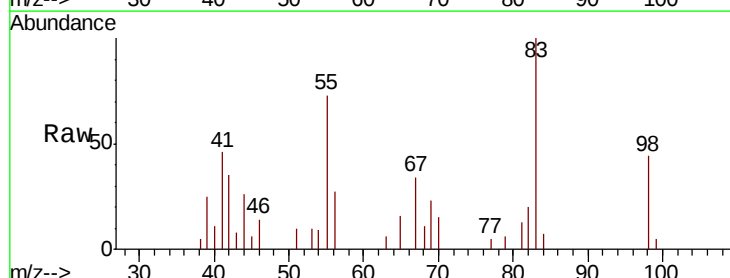
Tgt Ion: 83 Resp: 4994

Ion Ratio Lower Upper

83 100

55 72.1 62.8 94.2

98 48.3 38.6 58.0

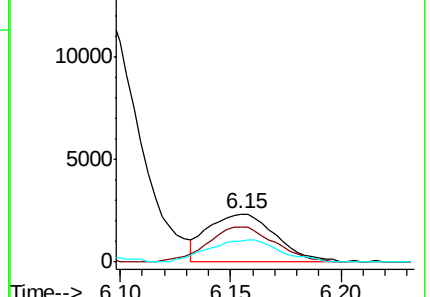
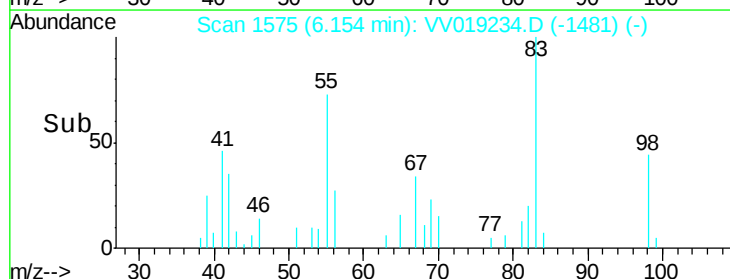


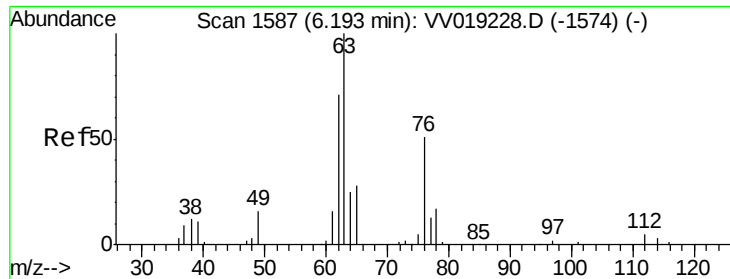
Abundance Ion 83.00 (82.70 to 83.70): VV019234.D (-1481) (-)

Ion 55.00 (54.70 to 55.70): VV019234.D (-1481) (-)

Ion 98.00 (97.70 to 98.70): VV019234.D (-1481) (-)

Time-->





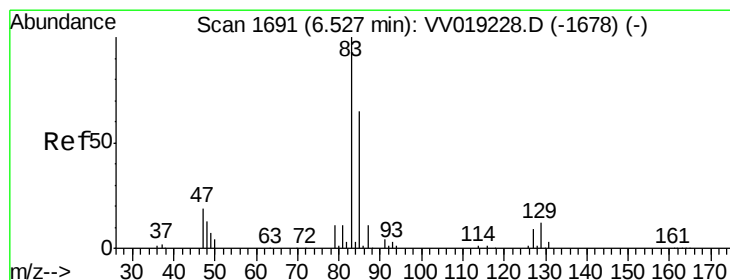
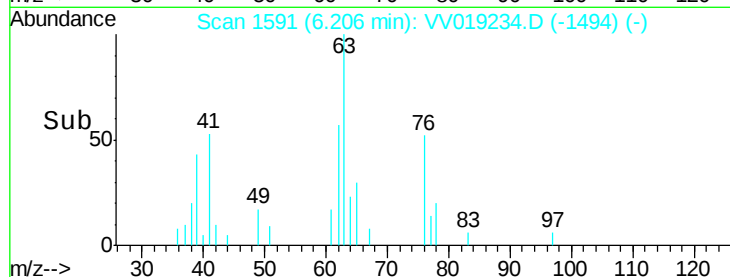
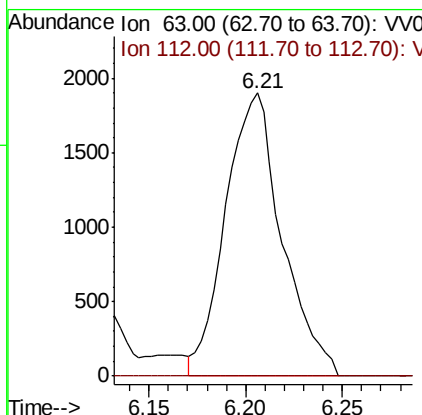
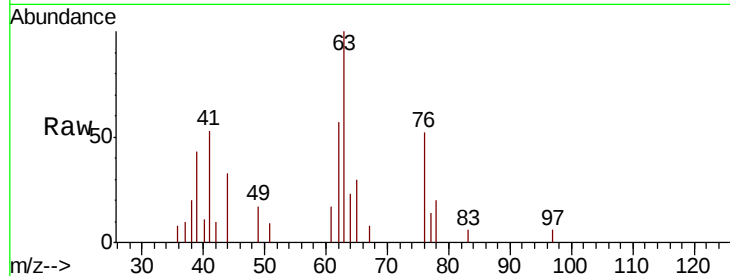
#37
 1,2-Dichloropropane
 Concen: 2.479 ug/L
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion: 63 Resp: 3859
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.2#

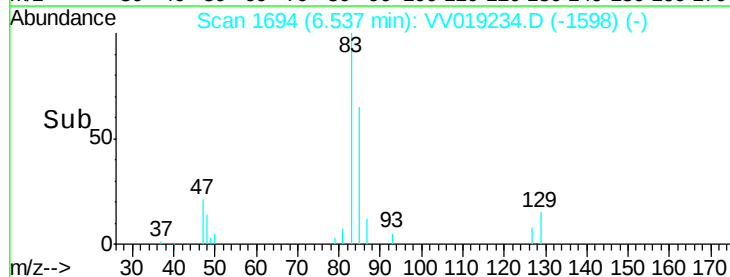
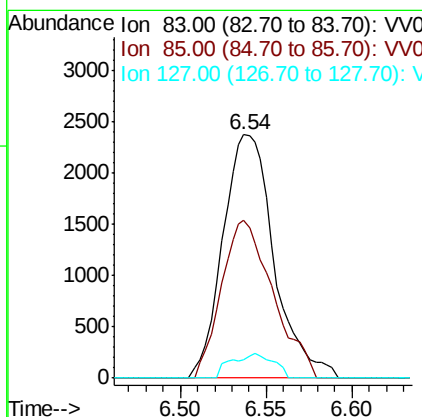
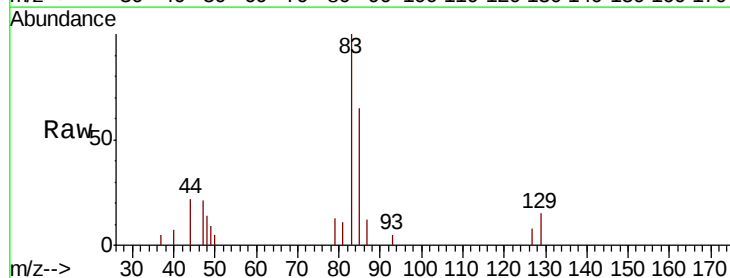
Manual Integrations
 APPROVED

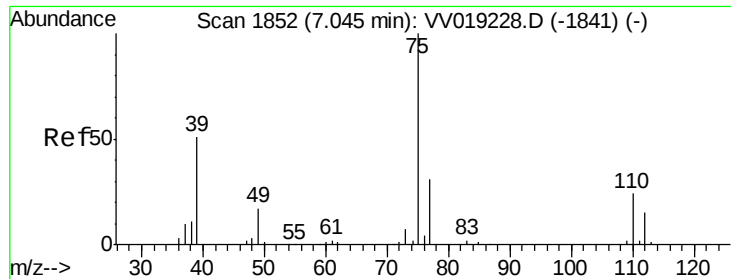
MMDadoda
 11/5/2020 7:00:27 PM



#38
 Bromodichloromethane
 Concen: 2.200 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion: 83 Resp: 4929
 Ion Ratio Lower Upper
 83 100
 85 64.9 44.0 81.8
 127 7.7 7.3 10.9





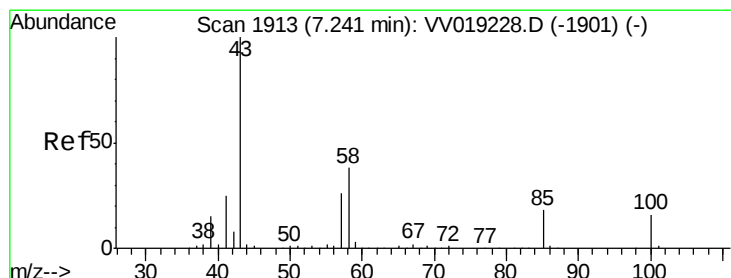
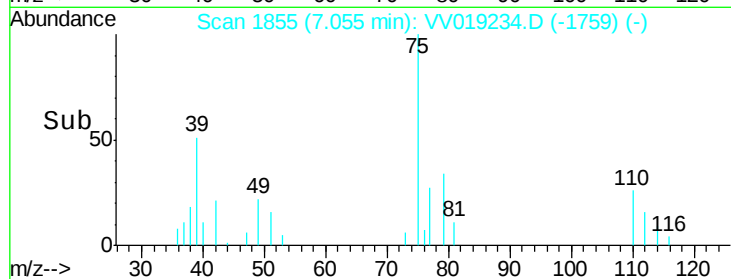
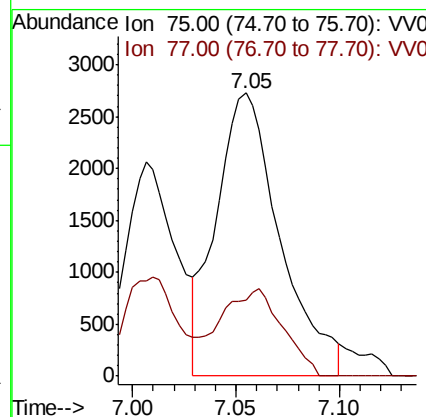
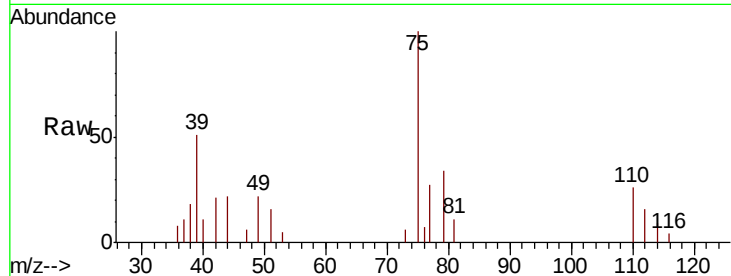
#39
 cis-1,3-Dichloropropene
 Concen: 2.350 ug/L m
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
75	100		
77	26.7	22.2	41.2

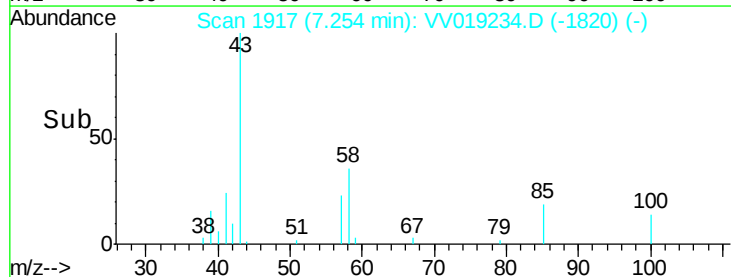
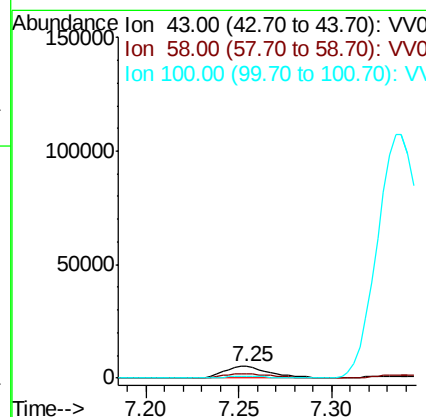
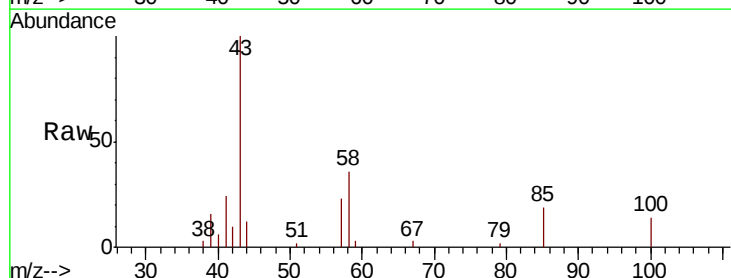
Manual Integrations
 APPROVED

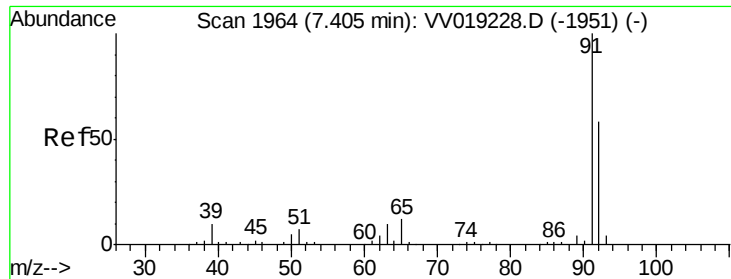
MMDadoda
 11/5/2020 7:00:27 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.337 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.9	30.5	45.7
100	13.4	12.7	19.1





#42

Toluene

Concen: 2.711 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion: 91 Resp: 17096

Ion Ratio Lower Upper

91 100

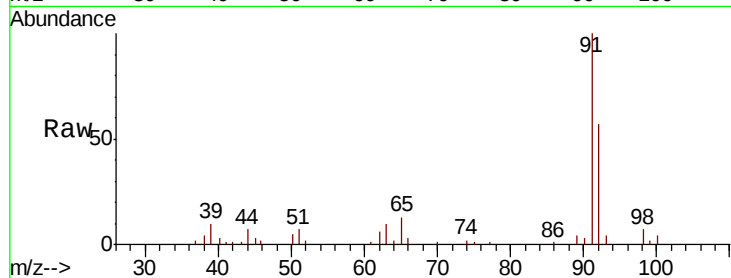
92 56.7 40.6 75.4

Manual Integrations

APPROVED

MMDadoda

11/5/2020 7:00:27 PM



Abundance Ion 91.00 (90.70 to 91.70): VV019228.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV019228.D (-1951) (-)

7.41

10000

8000

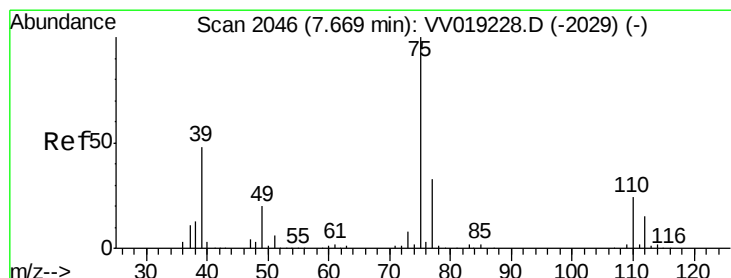
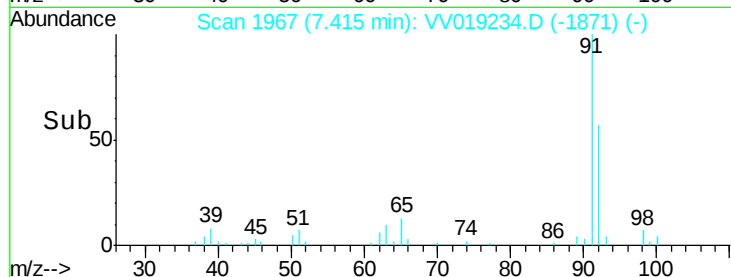
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.399 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019234.D

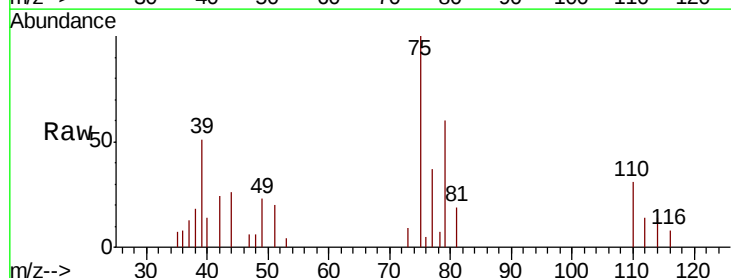
Acq: 03 Nov 2020 14:24

Tgt Ion: 75 Resp: 6124

Ion Ratio Lower Upper

75 100

77 36.8 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019228.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019228.D (-2029) (-)

7.68

3000

2500

2000

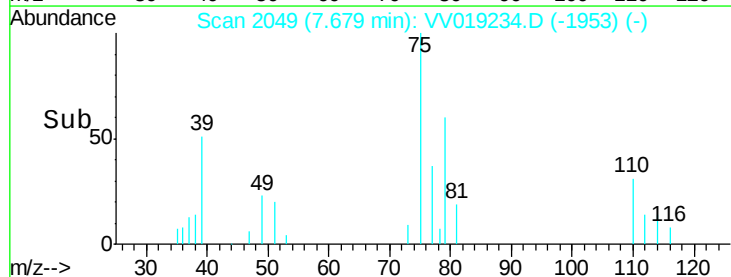
1500

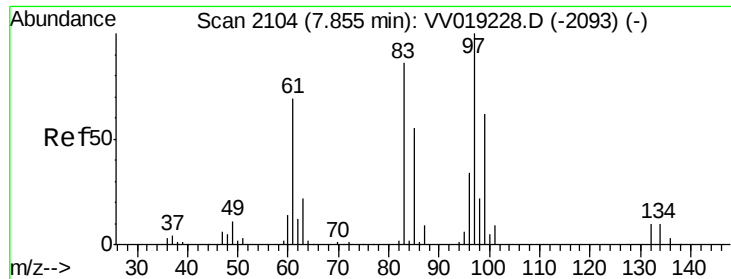
1000

500

0

Time-->





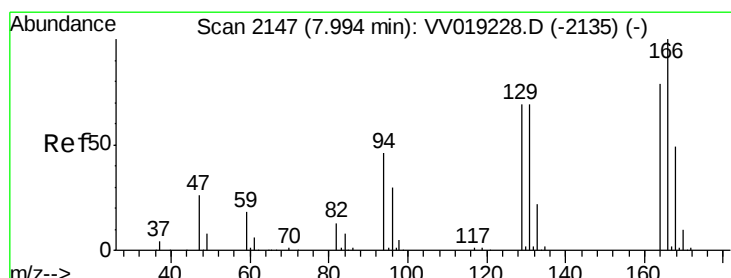
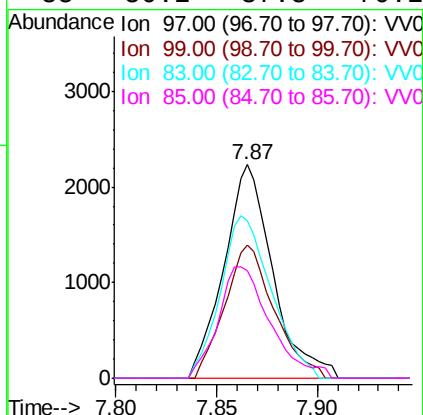
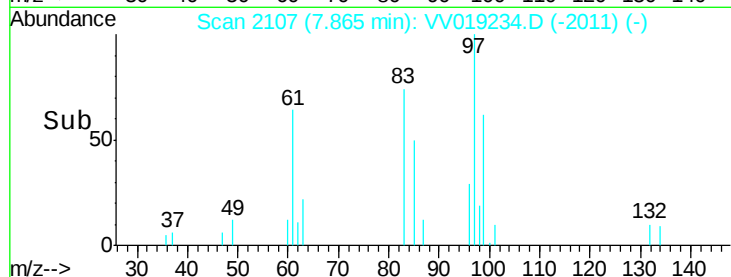
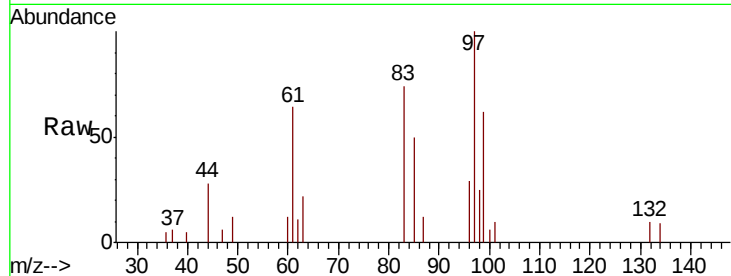
#45
1,1,2-Trichloroethane
Concen: 2.451 ug/L
RT: 7.87 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion:	97	Resp:	3772
Ion	Ratio	Lower	Upper
97	100		
99	62.5	45.1	83.9
83	73.8	57.6	107.0
85	50.2	37.8	70.2

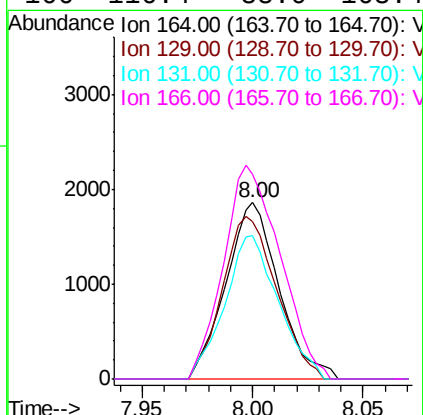
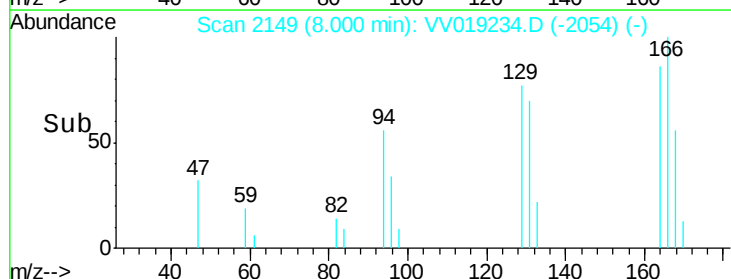
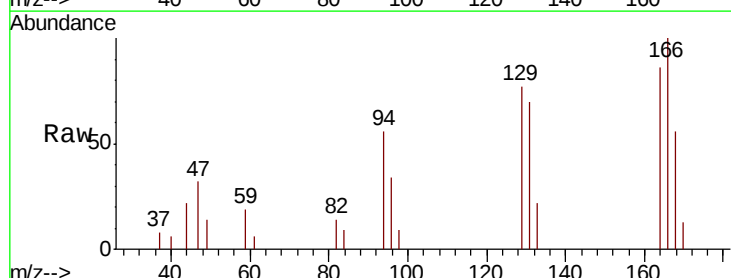
Manual Integrations
APPROVED

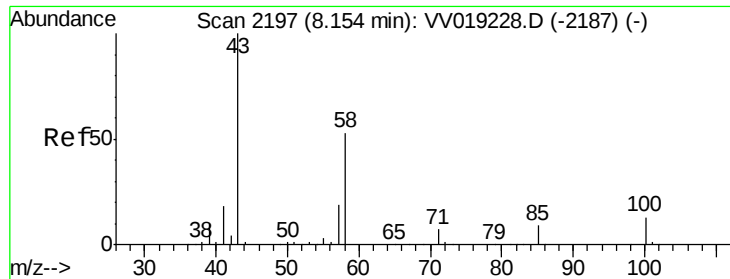
MMDadoda
11/5/2020 7:00:27 PM



#46
Tetrachloroethene
Concen: 2.404 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion:	164	Resp:	3109
Ion	Ratio	Lower	Upper
164	100		
129	89.5	62.6	116.3
131	81.4	59.0	109.6
166	116.4	88.0	163.4





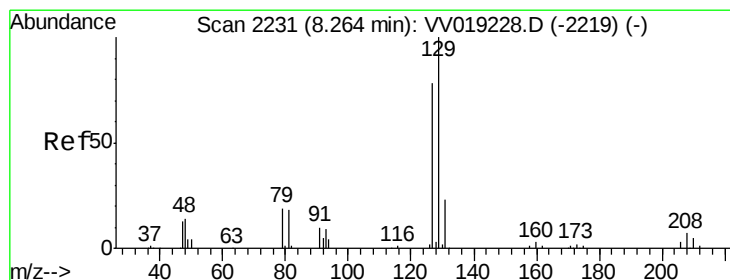
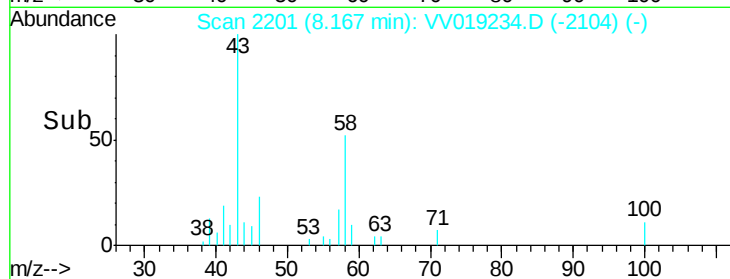
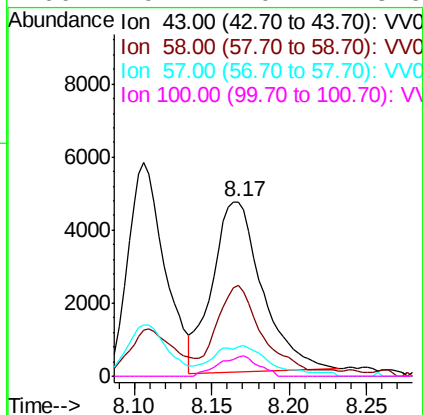
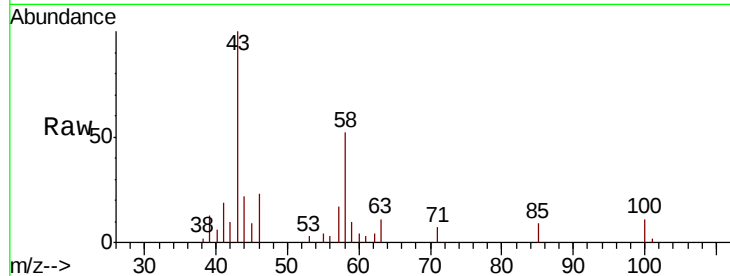
#48
2-Hexanone
Concen: 6.647 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.2	42.6	63.8
57	4.4	15.8	23.8#
100	9.4	10.4	15.6#

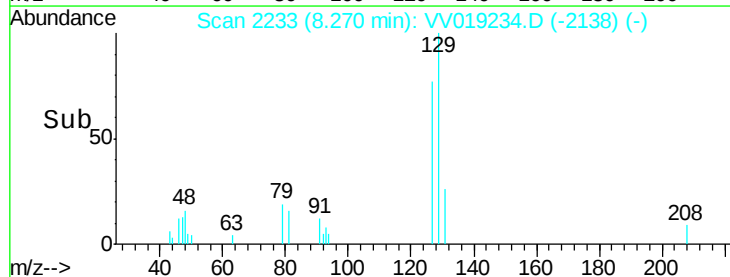
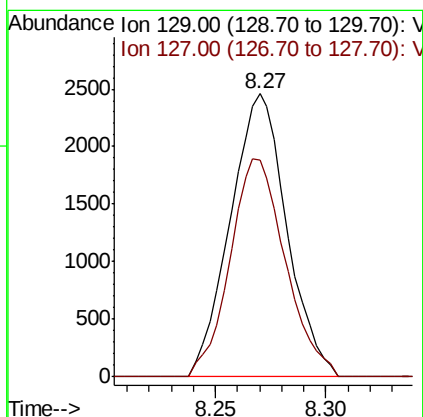
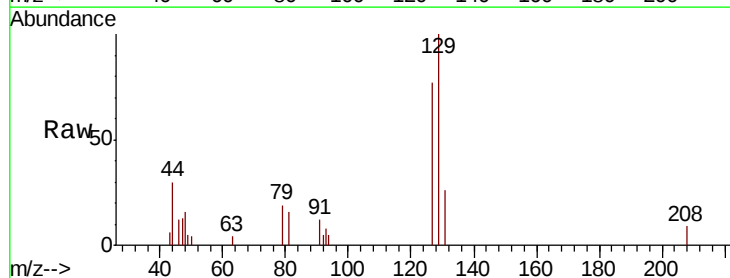
Manual Integrations
APPROVED

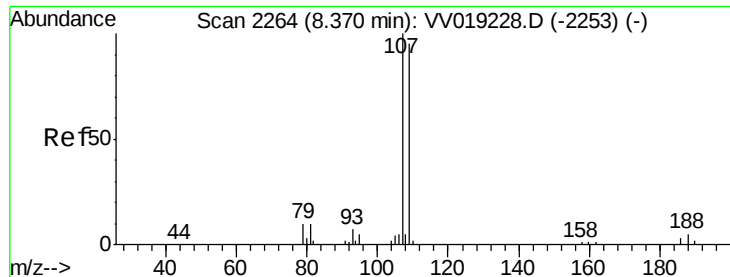
MMDadoda
11/5/2020 7:00:27 PM



#49
Dibromochloromethane
Concen: 2.382 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	54.4	101.0





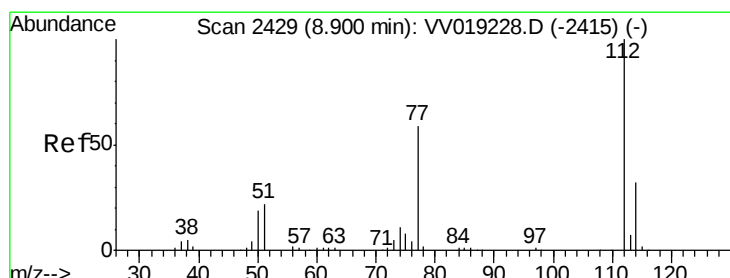
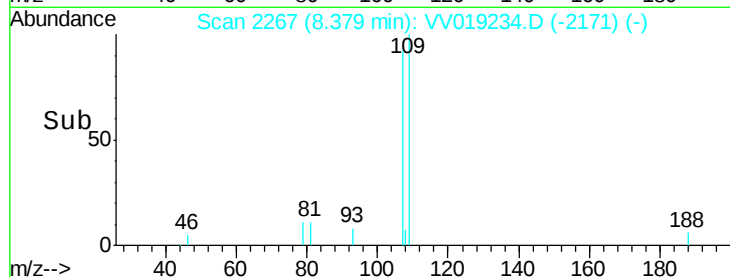
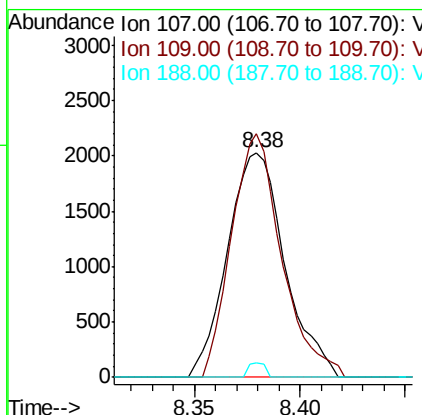
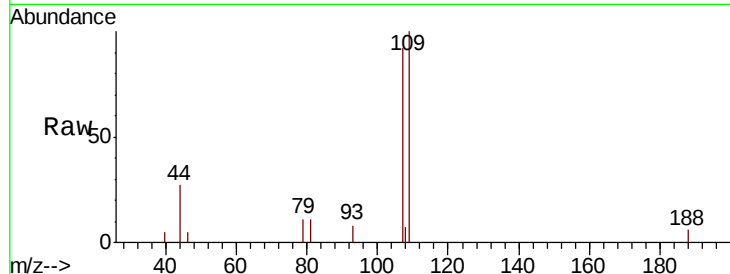
#50
1,2-Dibromoethane
Concen: 2.411 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	108.2	64.8	120.4	
188	6.4	3.8	5.8#	

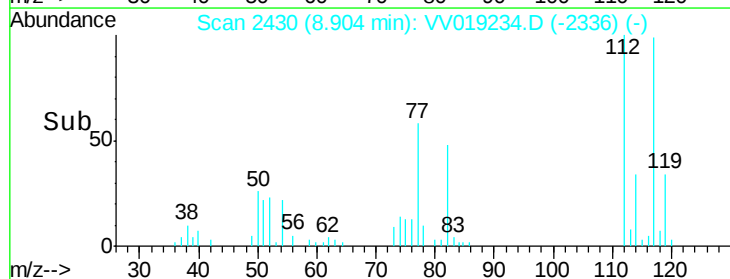
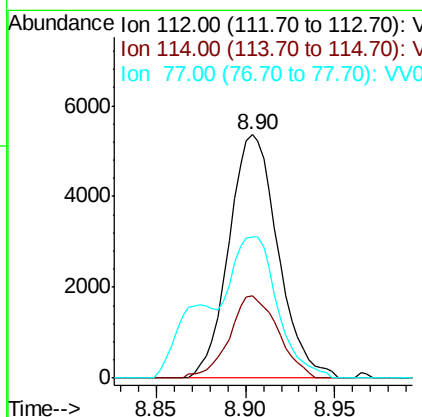
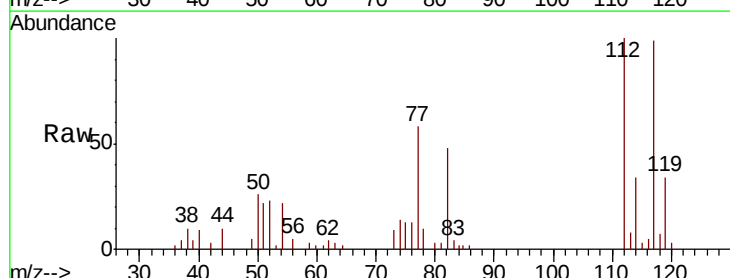
Manual Integrations
APPROVED

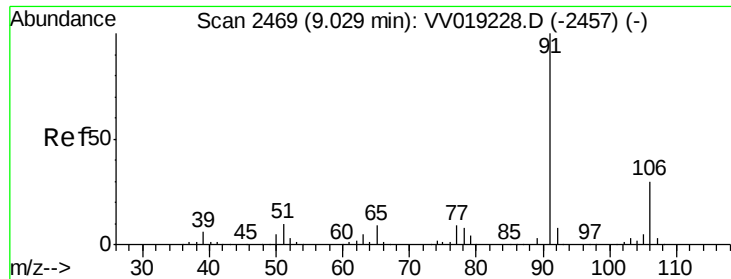
MMDadoda
11/5/2020 7:00:27 PM



#51
Chlorobenzene
Concen: 2.440 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	33.6	22.7	42.1	
77	58.1	47.3	70.9	





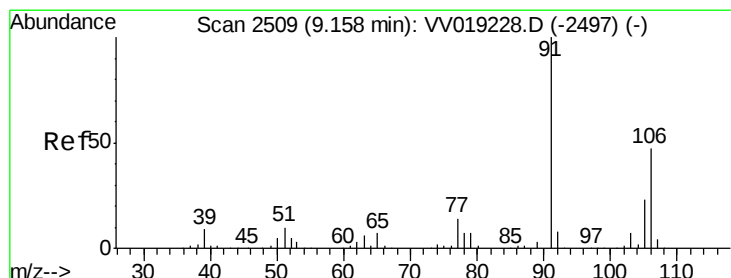
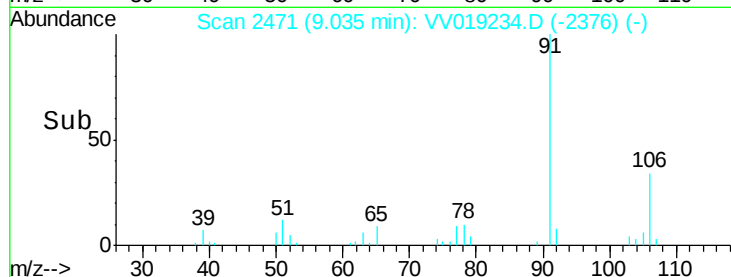
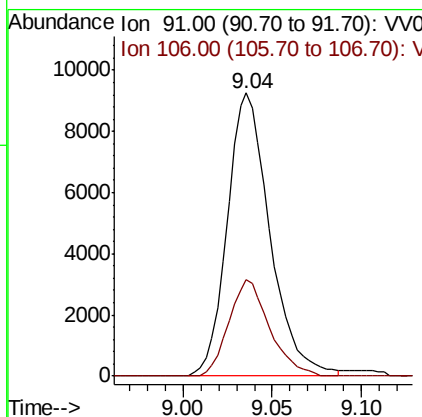
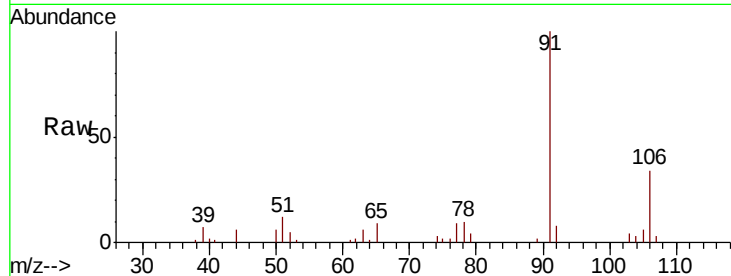
#52
Ethylbenzene
Concen: 2.217 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion: 91 Resp: 15420
Ion Ratio Lower Upper
91 100
106 34.1 21.6 40.0

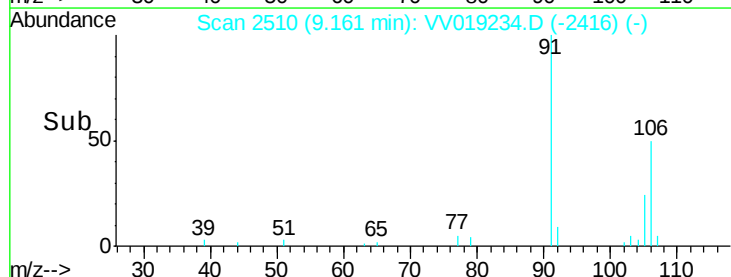
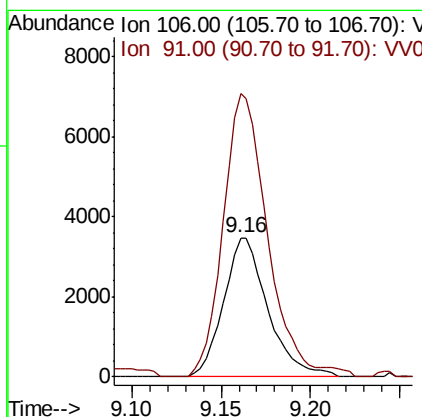
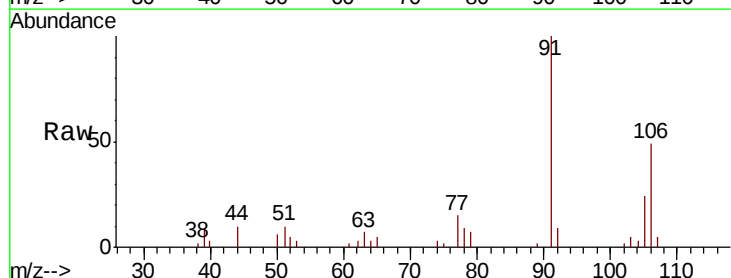
Manual Integrations
APPROVED

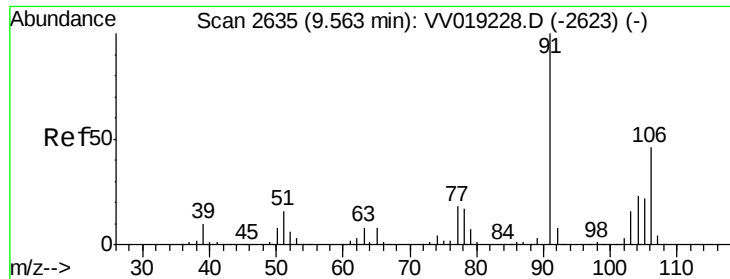
MMDadoda
11/5/2020 7:00:27 PM



#53
m,p-Xylene
Concen: 2.300 ug/L
RT: 9.16 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 106 Resp: 5990
Ion Ratio Lower Upper
106 100
91 203.9 147.2 273.4





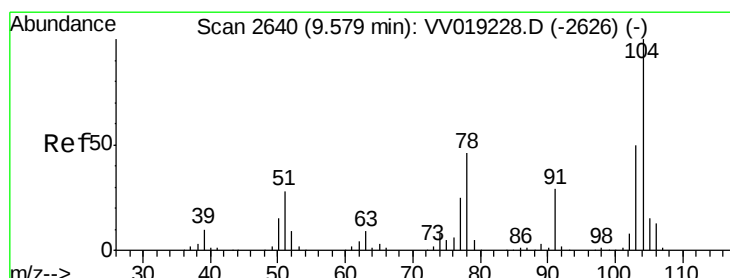
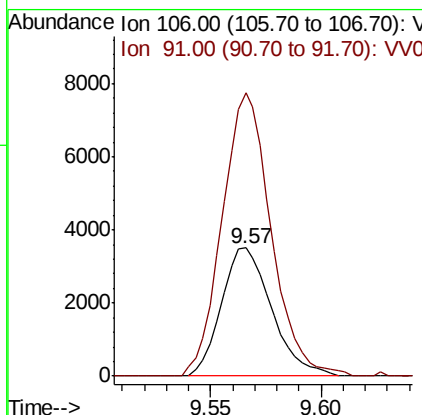
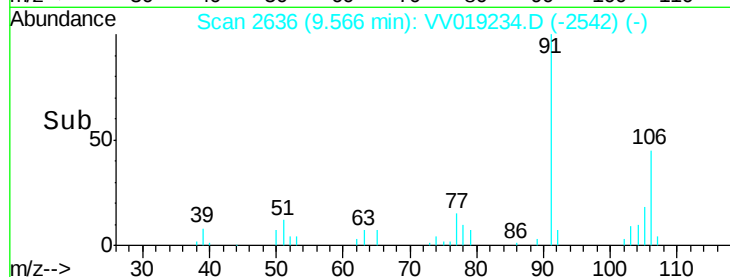
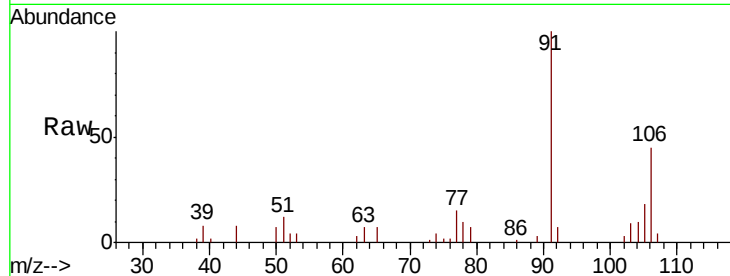
#54
o-Xylene
Concen: 2.158 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion:106 Resp: 5540
Ion Ratio Lower Upper
106 100
91 220.7 151.6 281.6

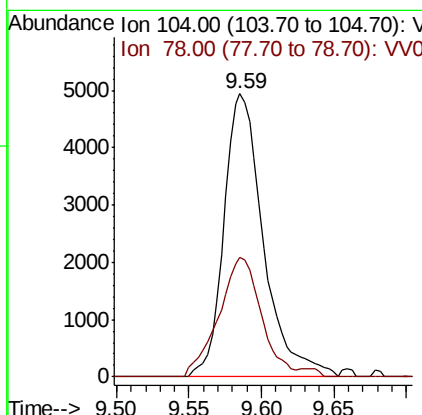
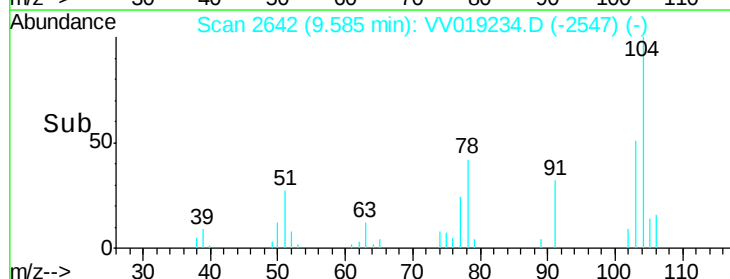
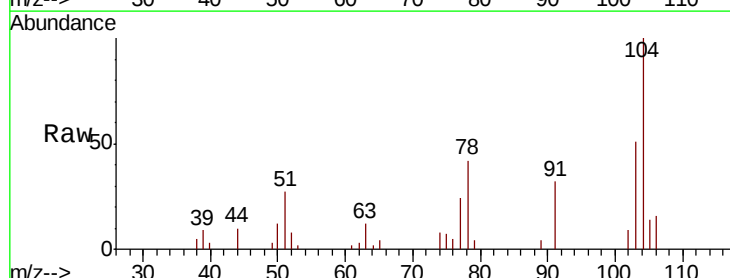
Manual Integrations
APPROVED

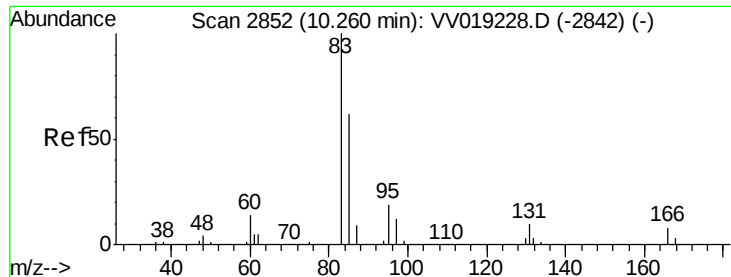
MMDadoda
11/5/2020 7:00:27 PM



#55
Styrene
Concen: 2.044 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion:104 Resp: 9340
Ion Ratio Lower Upper
104 100
78 42.3 32.6 60.5





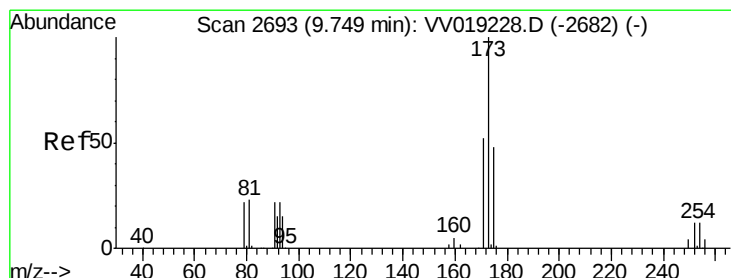
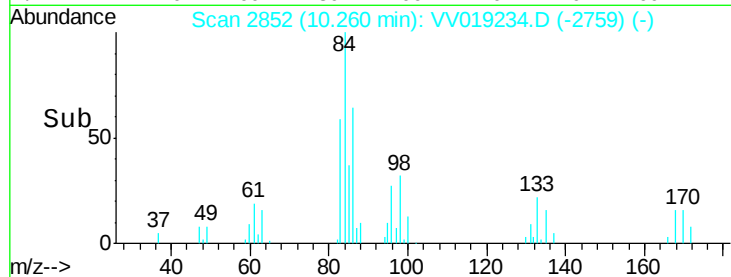
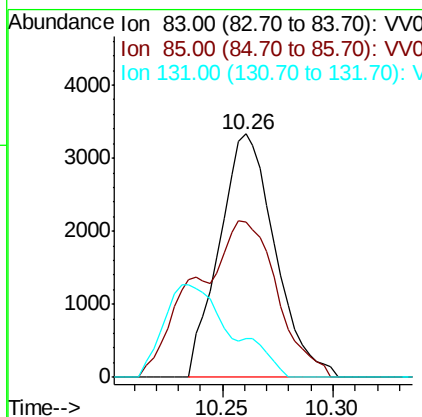
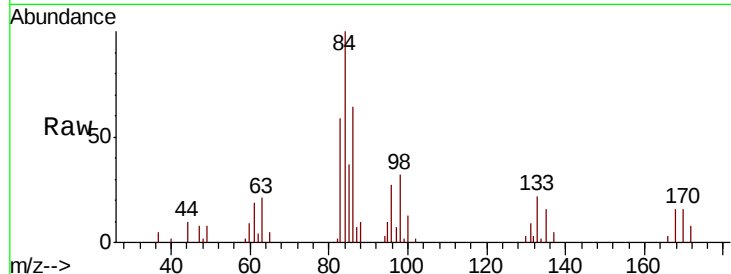
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.512 ug/L
 RT: 10.26 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.9	45.0	83.6
131	16.1	8.9	13.3#

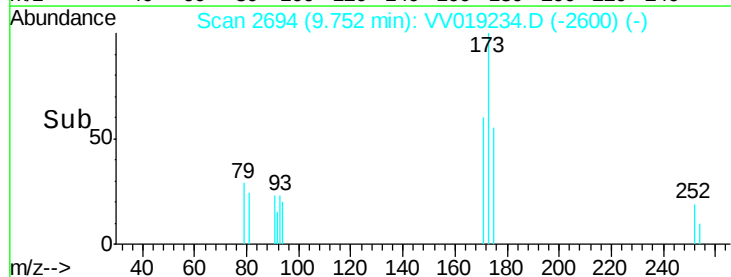
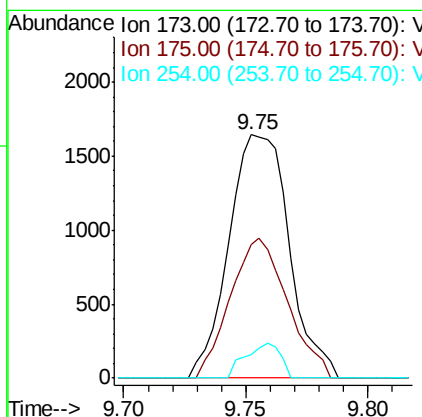
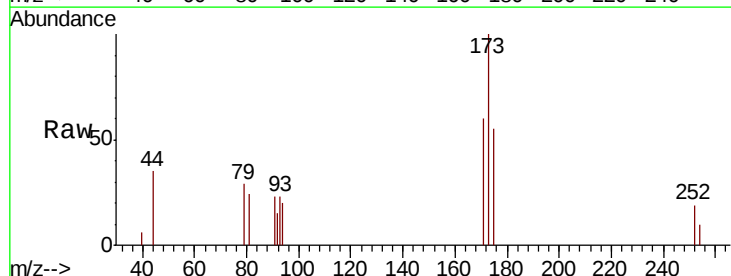
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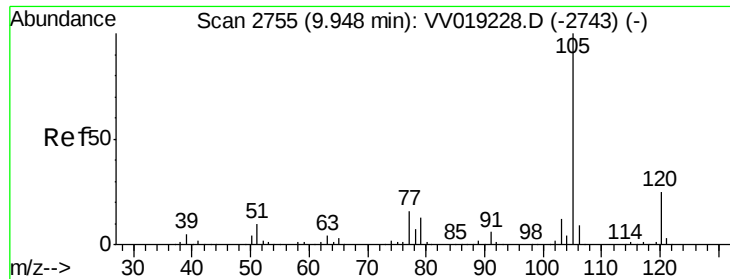
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#59
 Bromoform
 Concen: 2.134 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
173	100		
175	54.4	38.4	57.6
254	8.2	9.0	13.6#





#60

Isopropylbenzene

Concen: 2.292 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

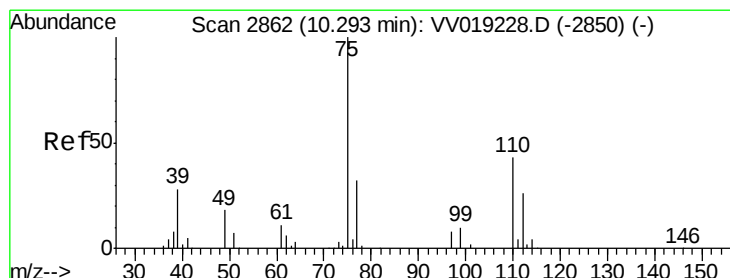
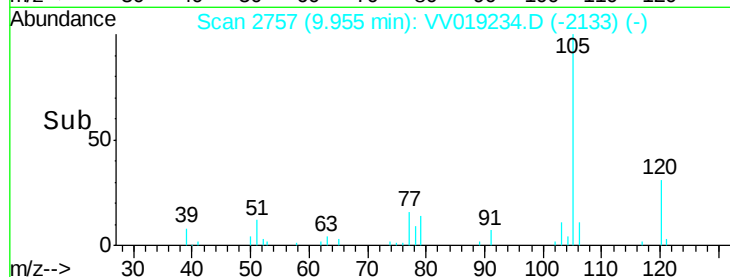
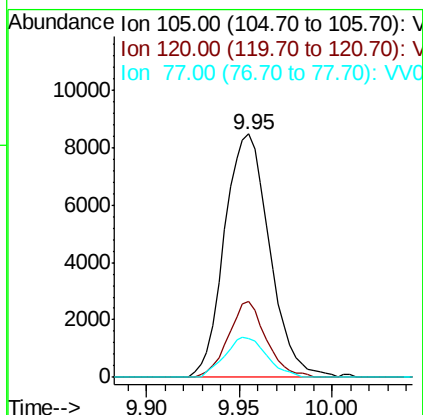
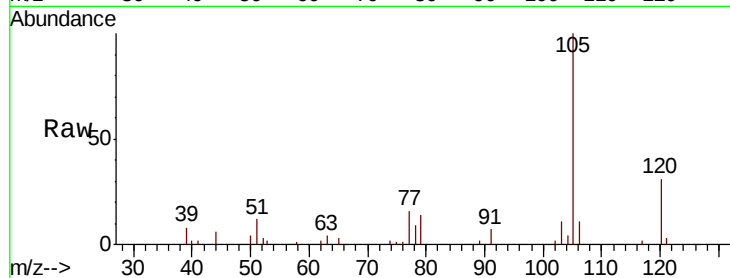
ClientSampleId :

MDL-WATER-05

Tot Ion:	105	Resp:	14304
Ion Ratio	Lower	Upper	
105	100		
120	26.0	21.0	31.4
77	15.4	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.472 ug/L

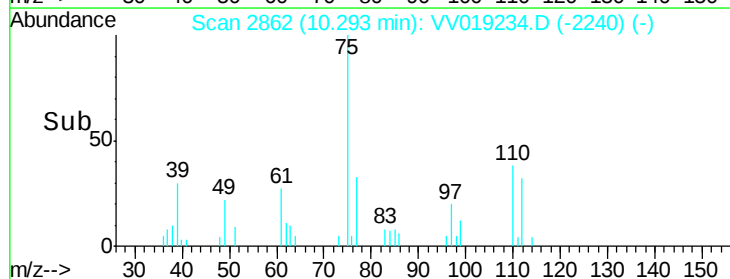
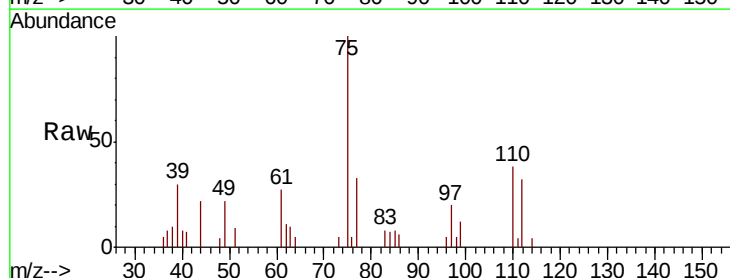
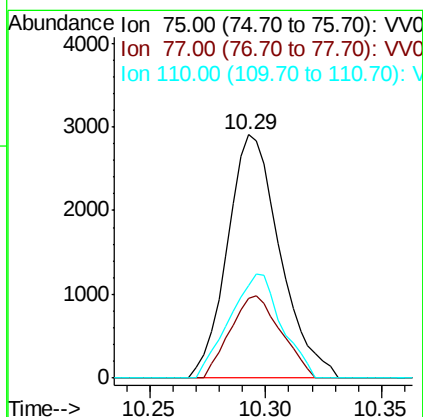
RT: 10.29 min Scan# 2862

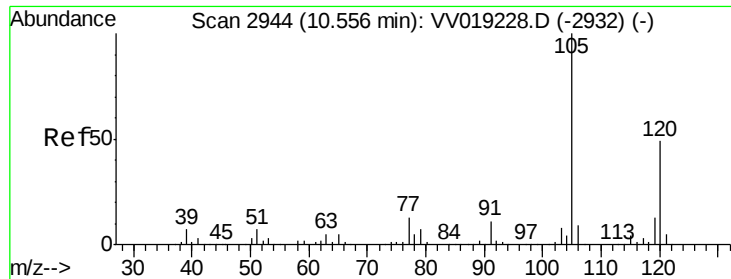
Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tgt Ion:	75	Resp:	4572
Ion Ratio	Lower	Upper	
75	100		
77	32.5	24.8	37.2
110	42.3	33.4	50.2





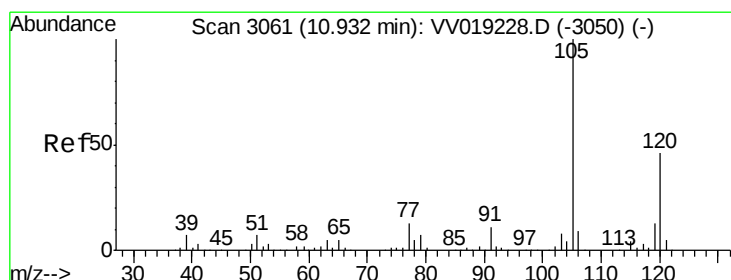
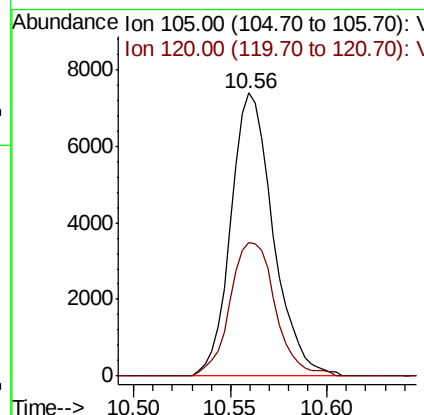
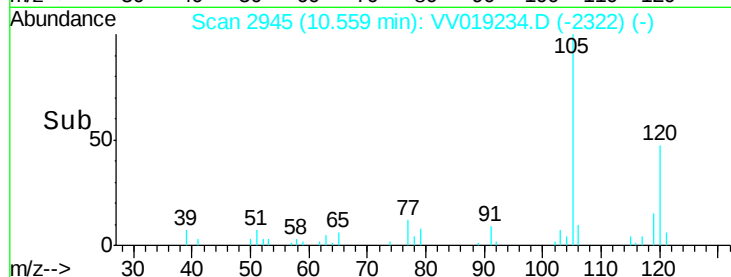
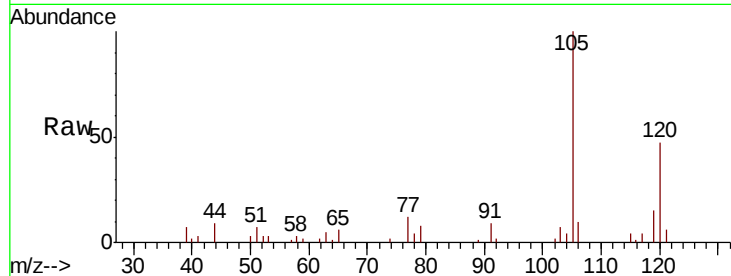
#62
 1,3,5-Trimethylbenzene
 Concen: 2.155 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion:105 Resp: 11202
 Ion Ratio Lower Upper
 105 100
 120 50.1 38.3 57.5

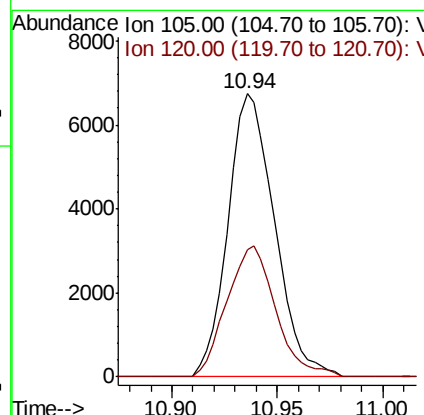
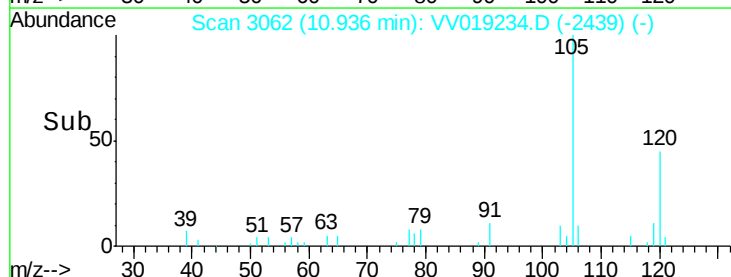
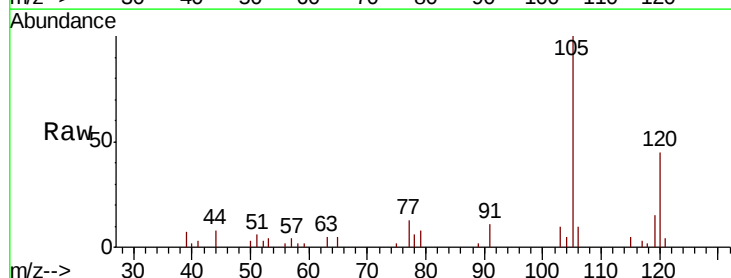
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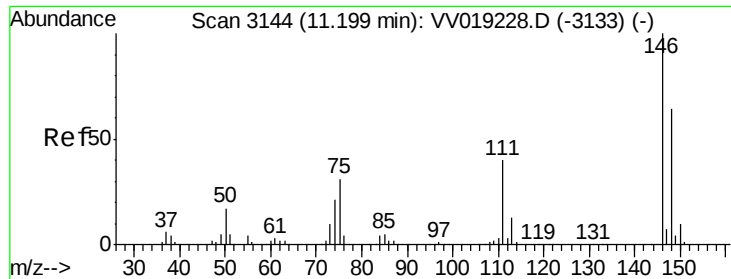
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.037 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion:105 Resp: 10358
 Ion Ratio Lower Upper
 105 100
 120 48.3 35.7 53.5





#64

1,3-Dichlorobenzene

Concen: 2.519 ug/L

RT: 11.21 min Scan# 3147

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

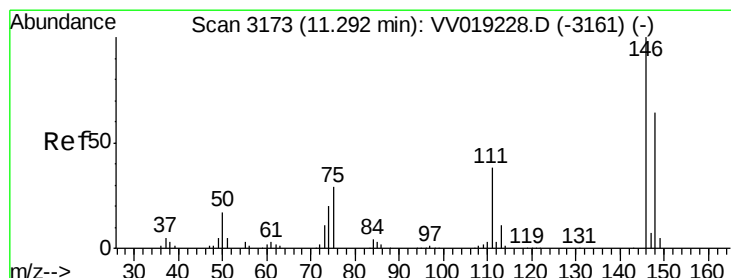
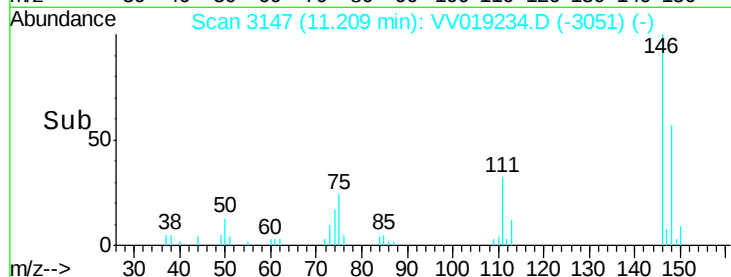
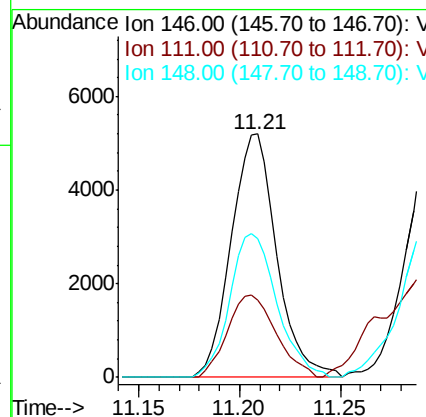
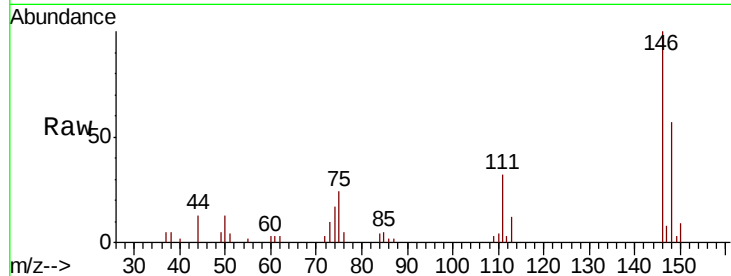
ClientSampleId :

MDL-WATER-05

Tot Ion:	146	Resp:	8221
Ion Ratio	Lower	Upper	
146	100		
111	31.9	27.3	50.7
148	57.0	45.2	84.0

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#65

1,4-Dichlorobenzene

Concen: 2.543 ug/L

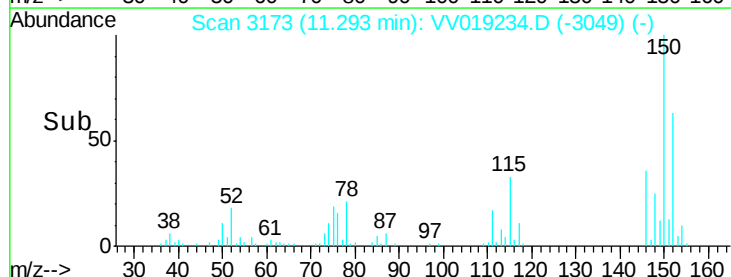
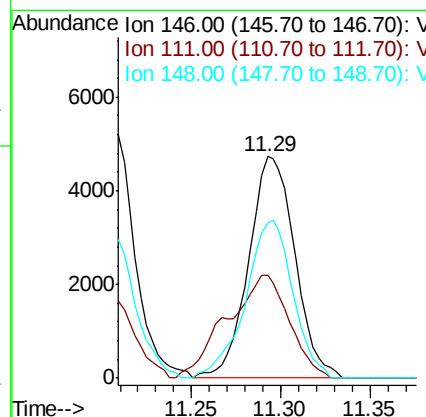
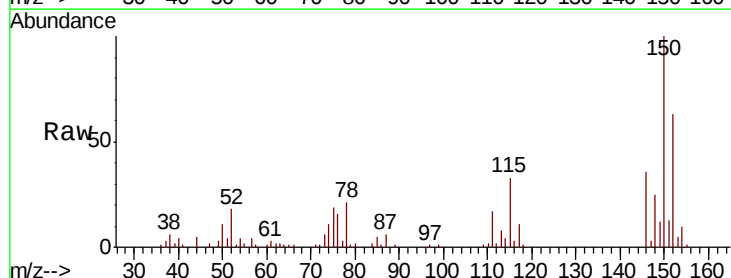
RT: 11.29 min Scan# 3173

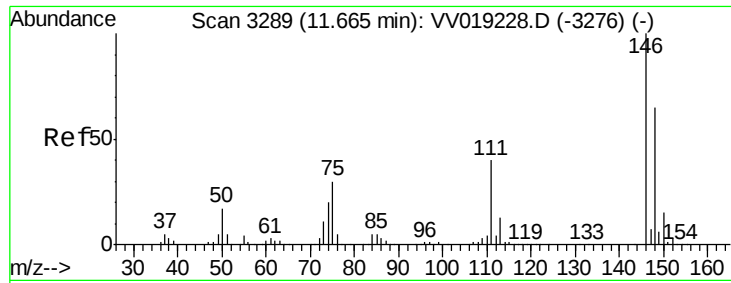
Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tgt Ion:	146	Resp:	8587
Ion Ratio	Lower	Upper	
146	100		
111	46.5	25.9	48.1
148	70.1	44.9	83.5





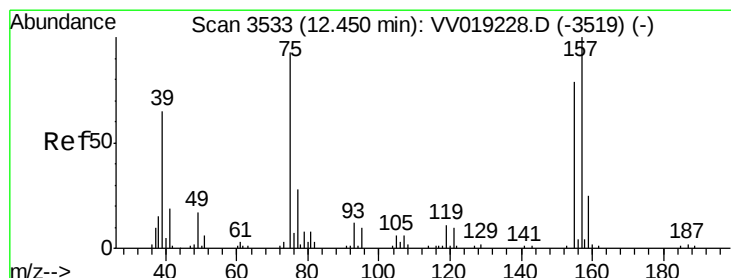
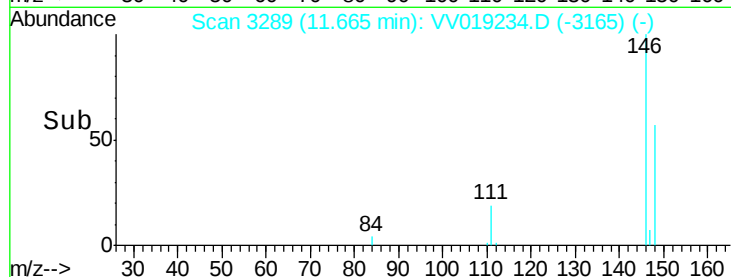
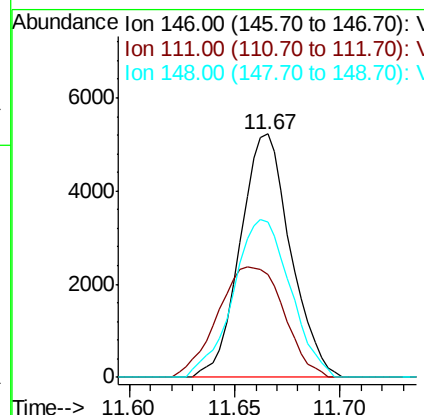
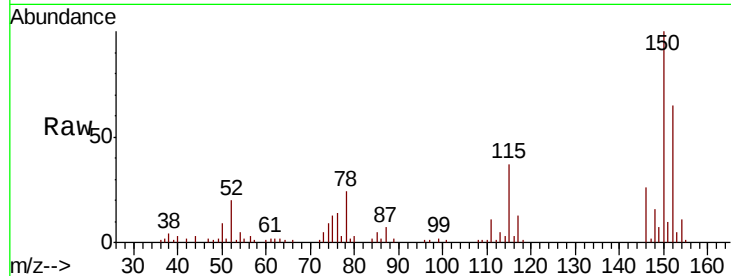
#67
 1,2-Dichlorobenzene
 Concen: 2.591 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	32.6	48.8
148	63.7	50.1	75.1

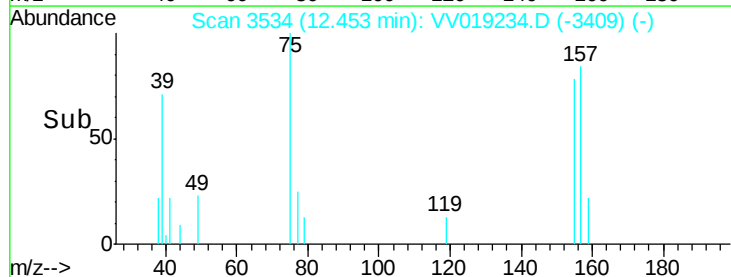
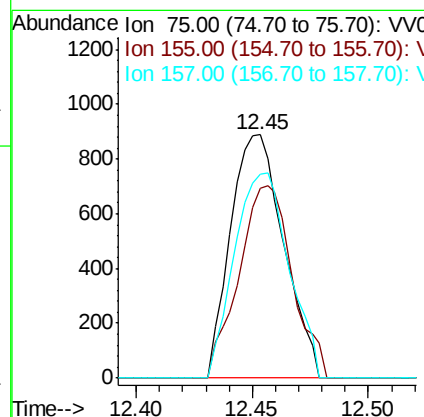
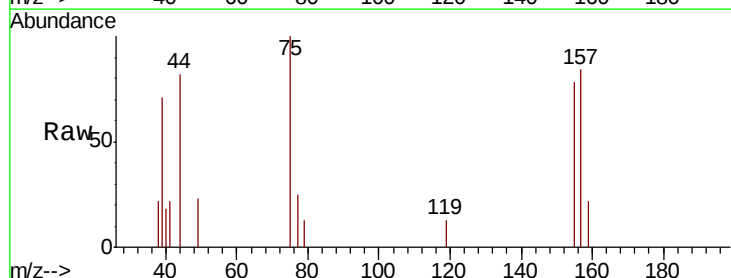
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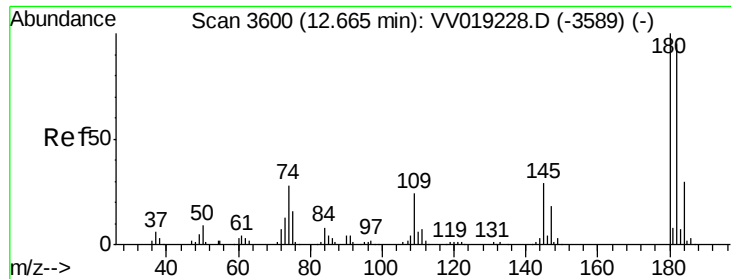
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.615 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.8	65.8	98.6
157	83.8	86.3	129.5





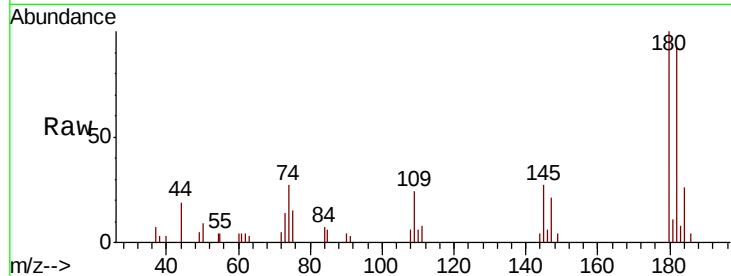
#69
 1,3,5-Trichlorobenzene
 Concen: 2.368 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.7	116.5
184	27.5	24.9	37.3
145	27.0	23.4	35.0

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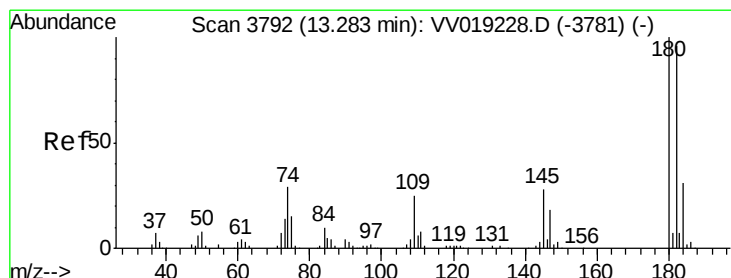
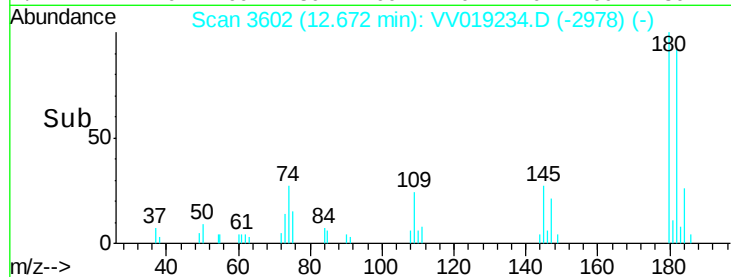
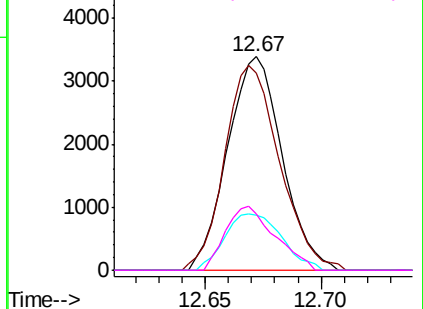
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

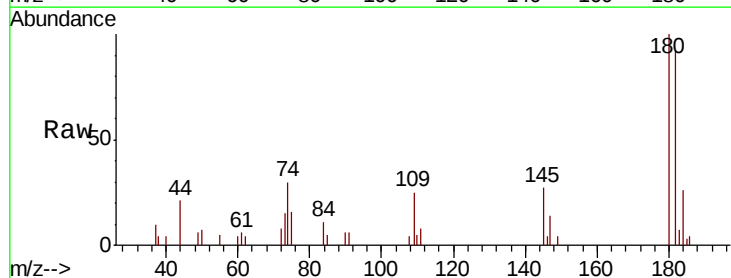
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 2.187 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.6	114.8
145	27.6	23.2	34.8

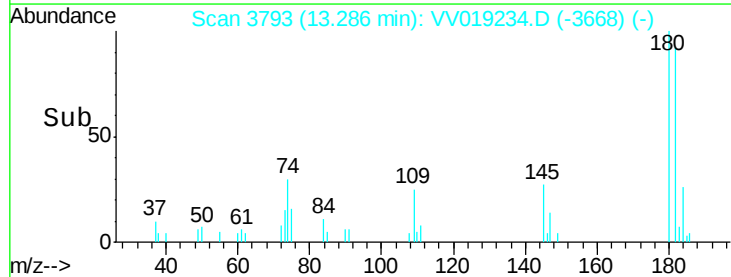
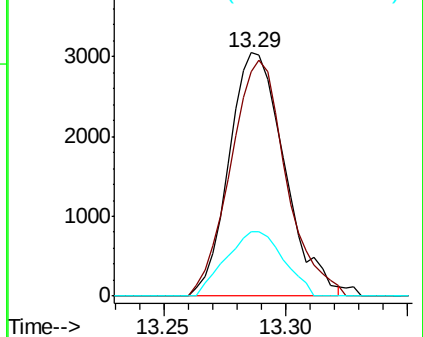


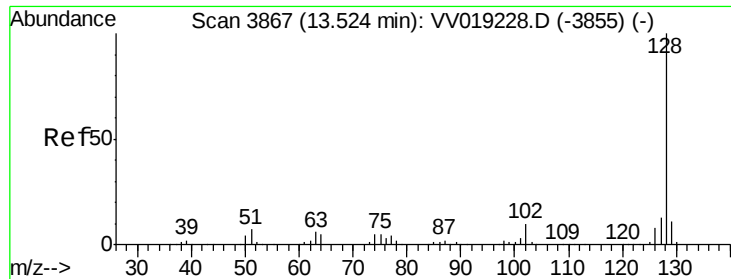
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





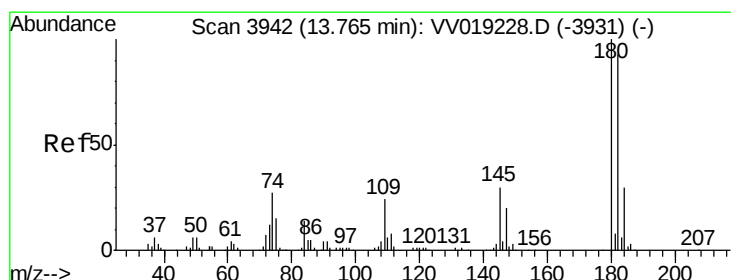
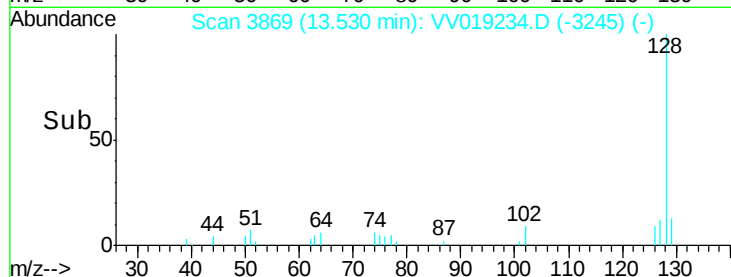
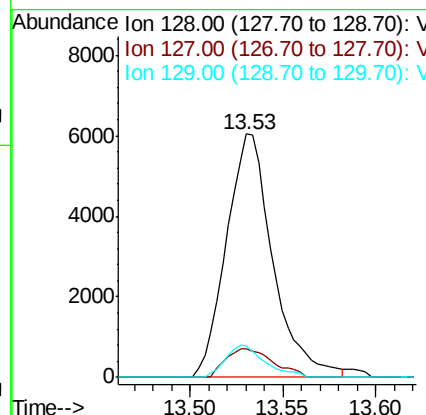
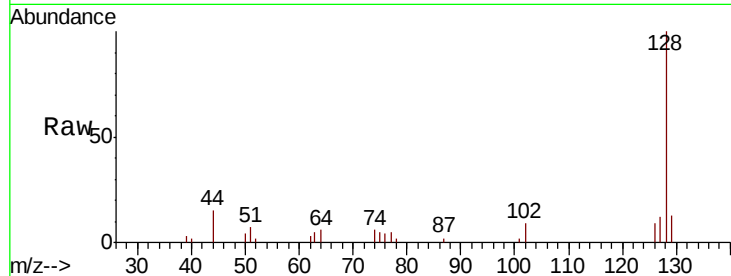
#71
Naphthalene
Concen: 1.693 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.7	16.1
129	11.3	8.6	13.0

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#72
1,2,3-Trichlorobenzene
Concen: 2.058 ug/L
RT: 13.77 min Scan# 3944
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.4	116.0
145	31.5	24.7	37.1

