

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019225.D
 Acq On : 03 Nov 2020 02:51
 Operator : SY/MD
 Sample : L4485-10
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-03

Quant Time: Nov 03 05:31:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 05:28:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	229115	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	223422	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	111737	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	87268	49.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.70%
7) Chloroethane-d5	1.58	69	74123	53.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.00%
11) 1,1-Dichloroethene-d2	2.13	63	134449	41.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.14%
21) 2-Butanone-d5	3.91	46	109164	111.97	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.97%
24) Chloroform-d	4.38	84	166945	50.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.90%
26) 1,2-Dichloroethane-d4	5.06	65	119881	51.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.98%
32) Benzene-d6	5.07	84	318148	51.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.14%
36) 1,2-Dichloropropane-d6	6.09	67	97100	52.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.44%
41) Toluene-d8	7.34	98	288220	50.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.30%
43) trans-1,3-Dichloropropene-	7.64	79	51112	49.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.02%
47) 2-Hexanone-d5	8.11	63	71566	100.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.08%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	121735	49.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.20%
66) 1,2-Dichlorobenzene-d4	11.65	152	122112	54.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.26%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3349	2.386 ug/L	97
3) Chloromethane	1.25	50	4015	2.747 ug/L	99
5) Vinyl chloride	1.32	62	4320	2.840 ug/L #	73
6) Bromomethane	1.53	94	3063	2.996 ug/L	88
8) Chloroethane	1.60	64	2988	3.003 ug/L	97
9) Trichlorofluoromethane	1.77	101	6446	2.559 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3985	3.330 ug/L #	77
12) 1,1-Dichloroethene	2.14	96	4396	3.554 ug/L #	1
13) Acetone	2.20	43	4546	6.131 ug/L	80
14) Carbon disulfide	2.32	76	9376	2.640 ug/L	99
15) Methyl Acetate	2.46	43	4283	2.981 ug/L #	68
16) Methylene chloride	2.53	84	4396	2.990 ug/L	97
17) trans-1,2-Dichloroethene	2.78	96	3413	2.544 ug/L	88
18) Methyl tert-butyl Ether	2.79	73	12632	2.678 ug/L	100
19) 1,1-Dichloroethane	3.22	63	7079	2.693 ug/L	97
20) cis-1,2-Dichloroethene	3.95	96	3875	2.613 ug/L	98
23) Bromochloromethane	4.28	128	1343	1.645 ug/L	88

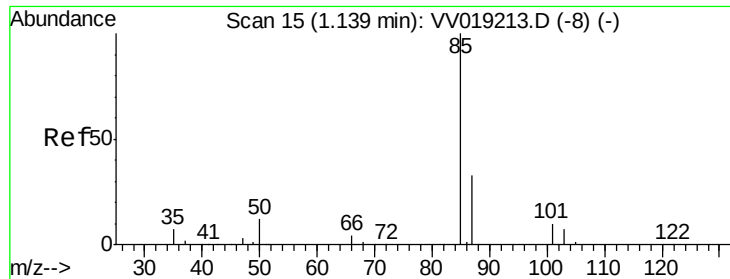
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.41	83	8468	3.004	ug/L	97
27) 1,2-Dichloroethane	5.17	62	7106	2.966	ug/L	95
29) Cyclohexane	4.70	56	4121	2.155	ug/L #	67
30) 1,1,1-Trichloroethane	4.64	97	6578	2.539	ug/L	99
31) Carbon tetrachloride	4.86	117	4926	2.202	ug/L	96
33) Benzene	5.13	78	13472	2.426	ug/L	100
34) Trichloroethene	5.95	95	3709	2.458	ug/L	94
35) Methylcyclohexane	6.16	83	4109	2.250	ug/L	95
37) 1,2-Dichloropropane	6.21	63	4021	2.714	ug/L #	89
38) Bromodichloromethane	6.54	83	5099	2.391	ug/L	93
39) cis-1,3-Dichloropropene	7.05	75	5766	2.432	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	9693	4.869	ug/L	97
42) Toluene	7.41	91	16764	2.793	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	5715	2.352	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	3769	2.573	ug/L	93
46) Tetrachloroethene	8.00	164	2798	2.273	ug/L	99
48) 2-Hexanone	8.16	43	9170	6.093	ug/L	93
49) Dibromochloromethane	8.27	129	4449	2.547	ug/L	90
50) 1,2-Dibromoethane	8.38	107	3940	2.595	ug/L	91
51) Chlorobenzene	8.90	112	9809	2.443	ug/L	97
52) Ethylbenzene	9.04	91	14319	2.162	ug/L	97
53) m,p-Xylene	9.16	106	5448	2.198	ug/L	96
54) o-Xylene	9.57	106	5371	2.198	ug/L	90
55) Styrene	9.59	104	8546	1.965	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.26	83	6155	2.778	ug/L #	94
59) Bromoform	9.75	173	3174	2.559	ug/L #	97
60) Isopropylbenzene	9.95	105	13019	2.223	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	5110	2.944	ug/L	97
62) 1,3,5-Trimethylbenzene	10.56	105	10317	2.115	ug/L	99
63) 1,2,4-Trimethylbenzene	10.94	105	9903	2.075	ug/L	93
64) 1,3-Dichlorobenzene	11.21	146	7976	2.604	ug/L	93
65) 1,4-Dichlorobenzene	11.30	146	8322	2.626	ug/L	96
67) 1,2-Dichlorobenzene	11.66	146	8271	2.639	ug/L #	90
68) 1,2-Dibromo-3-chloropropan	12.45	75	1274	2.516	ug/L	91
69) 1,3,5-Trichlorobenzene	12.67	180	5168	2.351	ug/L	99
70) 1,2,4-trichlorobenzene	13.29	180	4426	2.139	ug/L	98
71) Naphthalene	13.53	128	10654	1.826	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4295	2.094	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.386 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

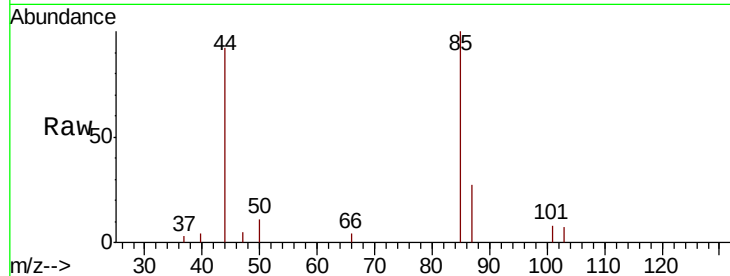
MDL-WATER-03

Tot Ion: 85 Resp: 3349

Ion Ratio Lower Upper

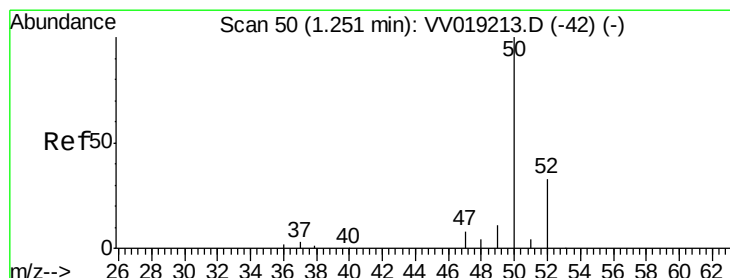
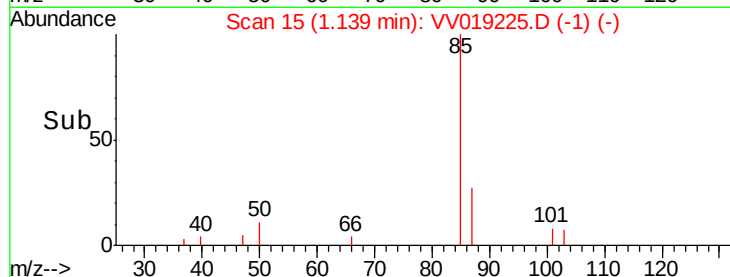
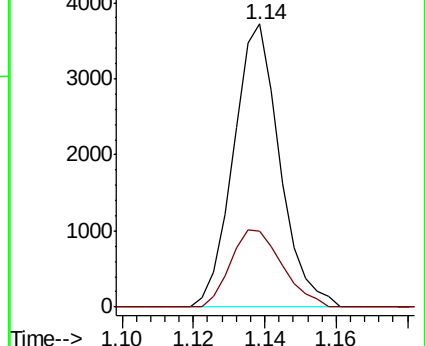
85 100

87 30.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV019213.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019213.D (-8) (-)



#3

Chloromethane

Concen: 2.747 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019225.D

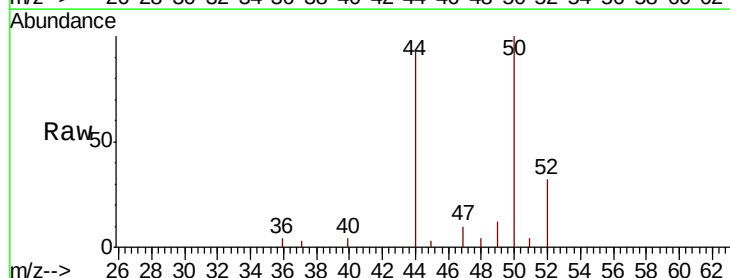
Acq: 03 Nov 2020 02:51

Tgt Ion: 50 Resp: 4015

Ion Ratio Lower Upper

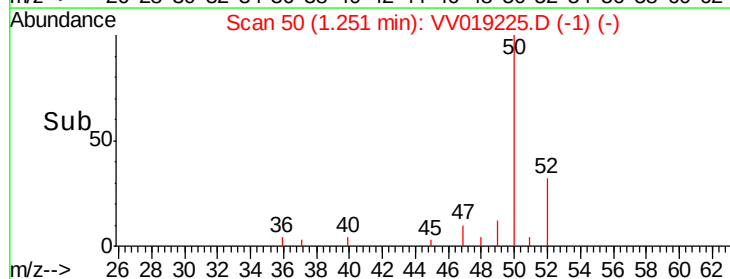
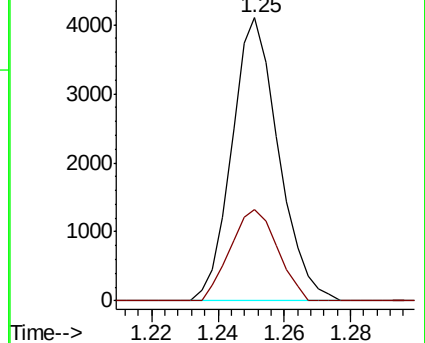
50 100

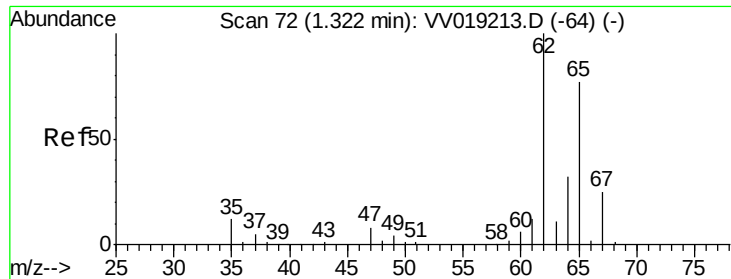
52 32.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019213.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019213.D (-42) (-)





#5

Vinyl chloride

Concen: 2.840 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

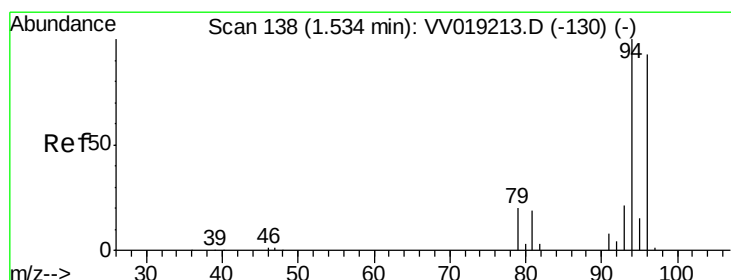
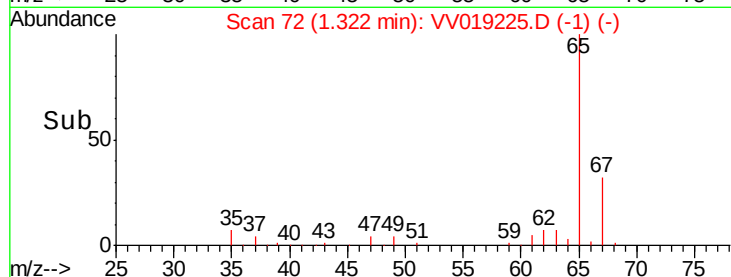
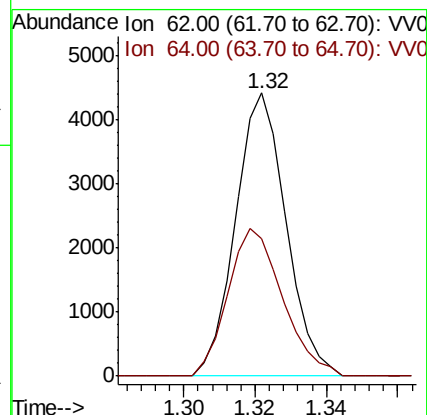
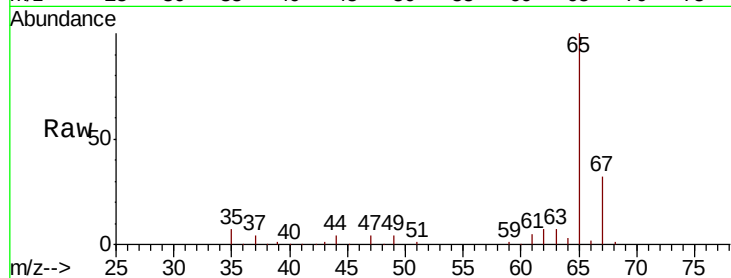
MDL-WATER-03

Tot Ion: 62 Resp: 4320

Ion Ratio Lower Upper

62 100

64 48.7 23.3 43.3#



#6

Bromomethane

Concen: 2.996 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019225.D

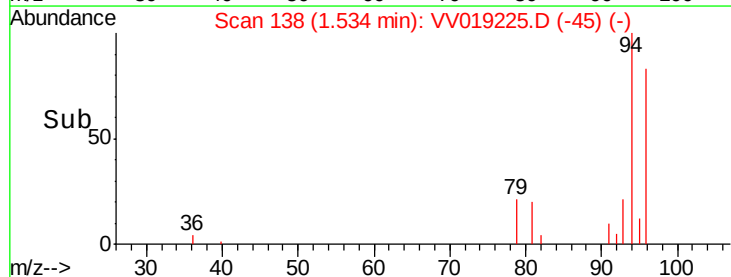
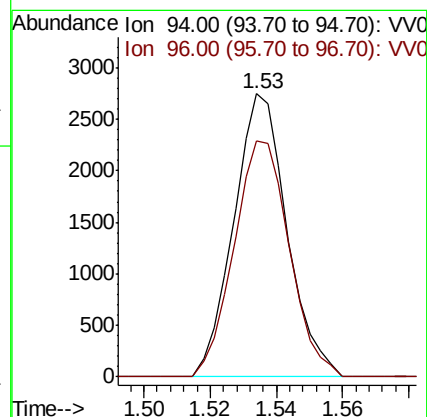
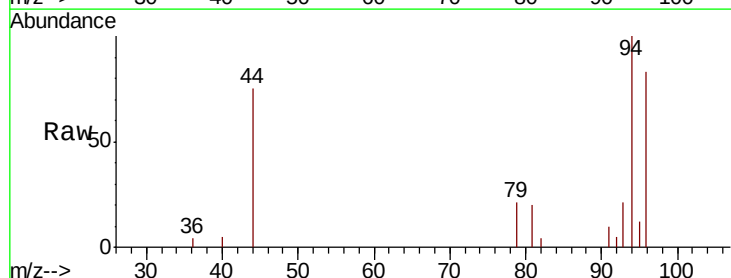
Acq: 03 Nov 2020 02:51

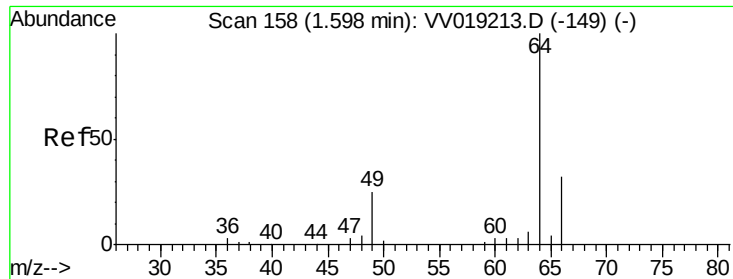
Tgt Ion: 94 Resp: 3063

Ion Ratio Lower Upper

94 100

96 83.4 66.4 123.2





#8

Chloroethane

Concen: 3.003 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

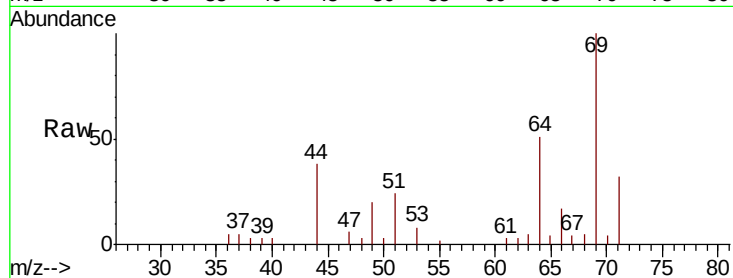
MDL-WATER-03

Tot Ion: 64 Resp: 2988

Ion Ratio Lower Upper

64 100

66 33.7 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019213.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV019225.D (-34) (-)

1.60

2500

2000

1500

1000

500

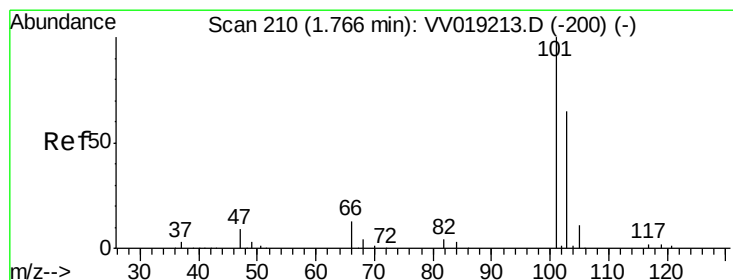
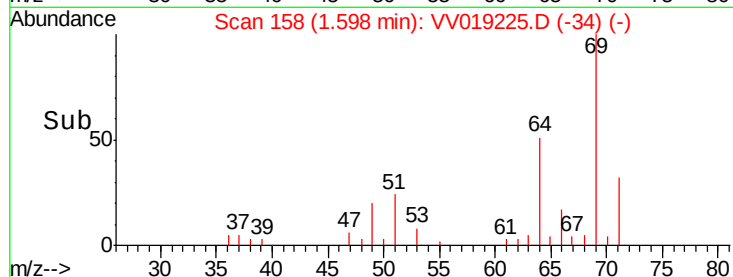
0

Time-->

1.55

1.60

1.65



#9

Trichlorofluoromethane

Concen: 2.559 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019225.D

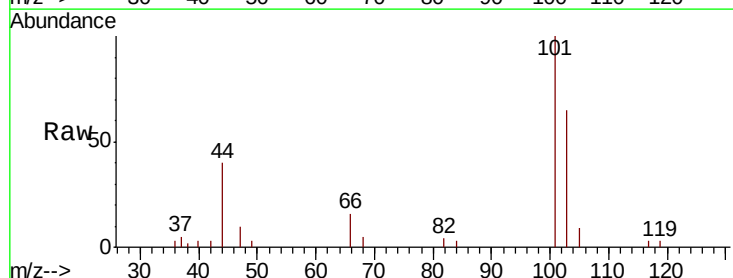
Acq: 03 Nov 2020 02:51

Tgt Ion: 101 Resp: 6446

Ion Ratio Lower Upper

101 100

103 62.3 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019213.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019225.D (-86) (-)

1.77

5000

4000

3000

2000

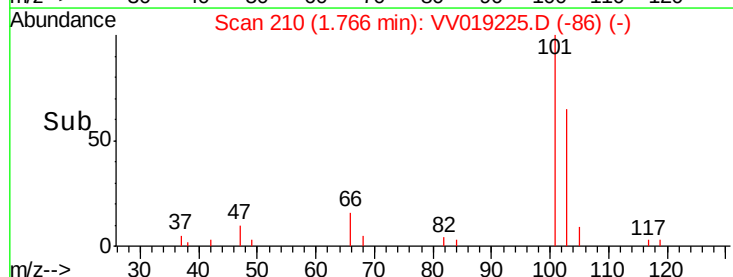
1000

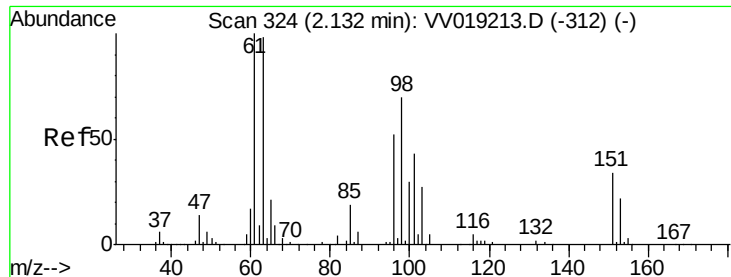
0

Time-->

1.75

1.80





#10

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

Concen: 3.330 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

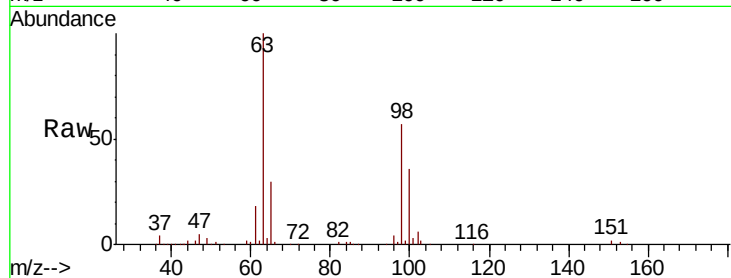
Tot Ion:101 Resp: 3985

Ion Ratio Lower Upper

101 100

85 34.8 35.6 53.4#

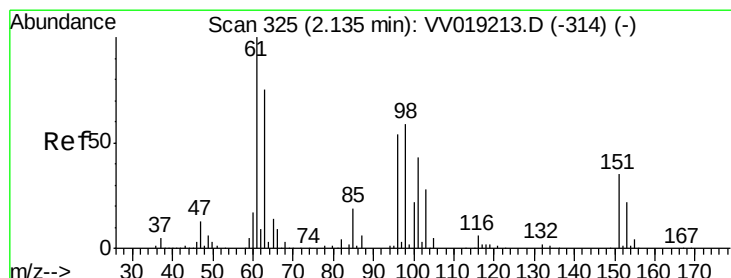
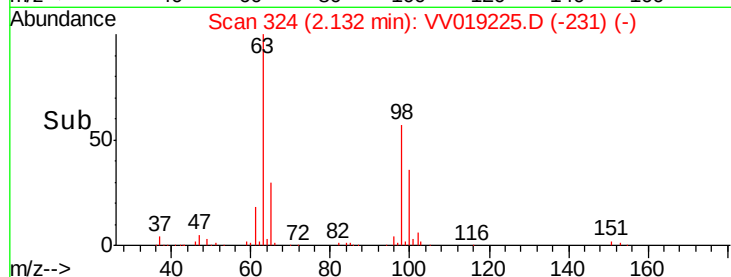
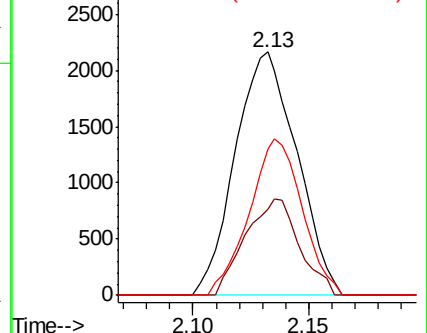
151 55.3 64.1 96.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.554 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

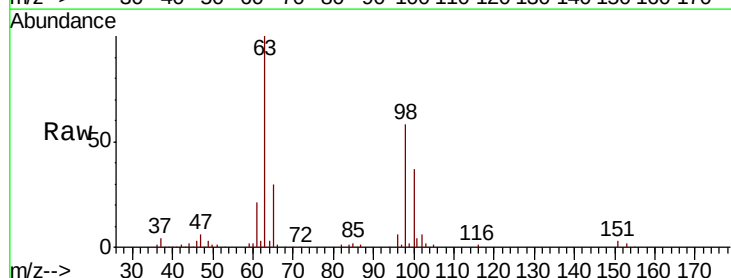
Tgt Ion: 96 Resp: 4396

Ion Ratio Lower Upper

96 100

61 372.1 133.6 248.0#

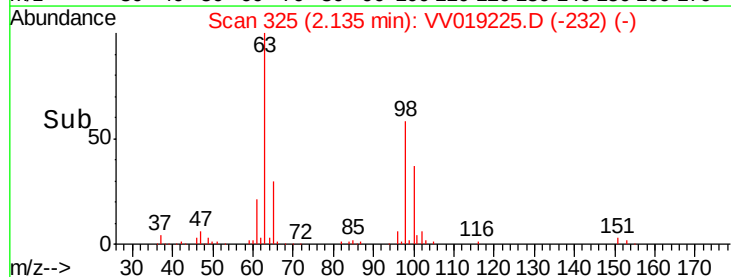
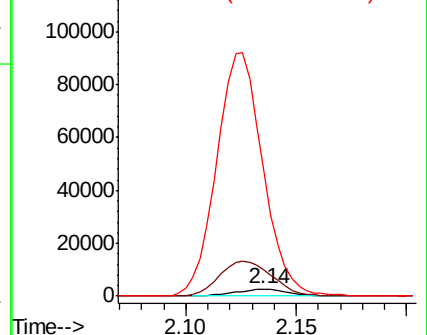
63 1757.0 103.0 191.2#

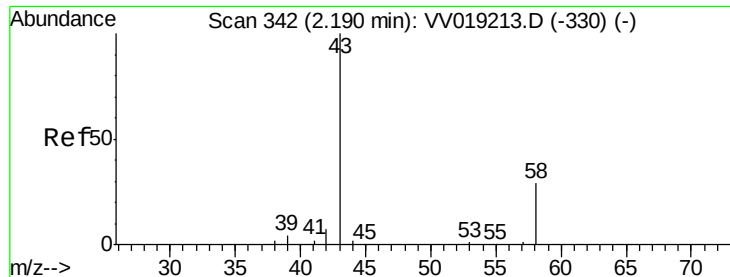


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.131 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

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Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

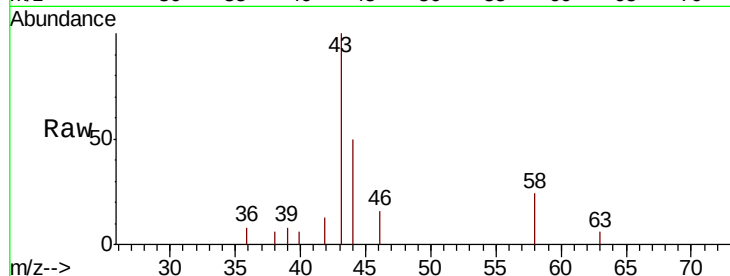
MDL-WATER-03

Tot Ion: 43 Resp: 4546

Ion Ratio Lower Upper

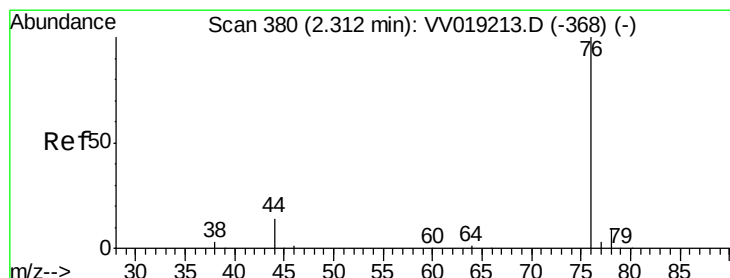
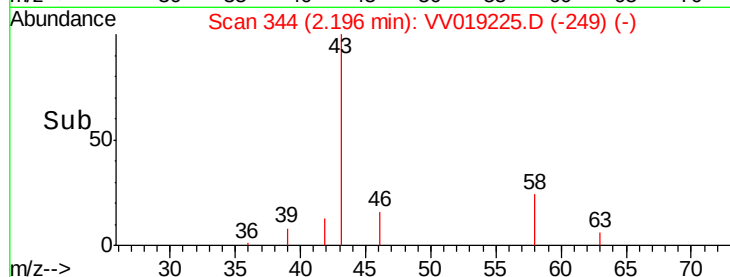
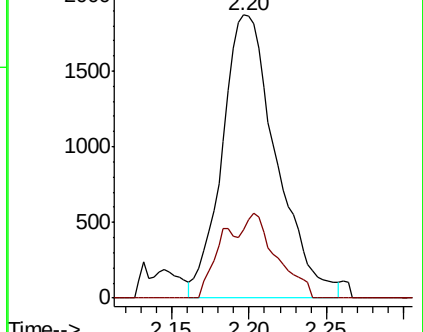
43 100

58 18.3 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV019213.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV019213.D (-330) (-)



#14

Carbon disulfide

Concen: 2.640 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV019225.D

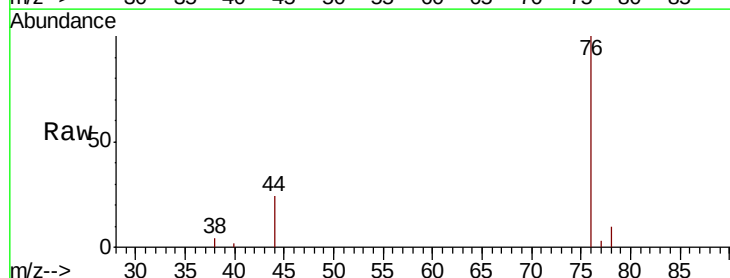
Acq: 03 Nov 2020 02:51

Tgt Ion: 76 Resp: 9376

Ion Ratio Lower Upper

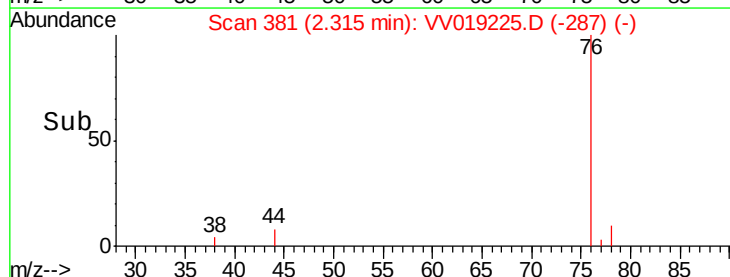
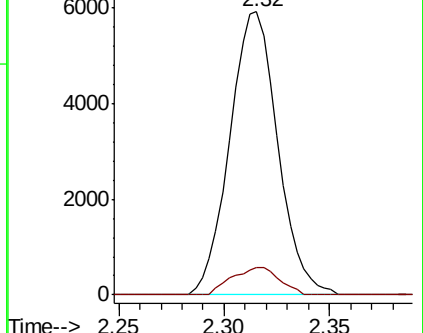
76 100

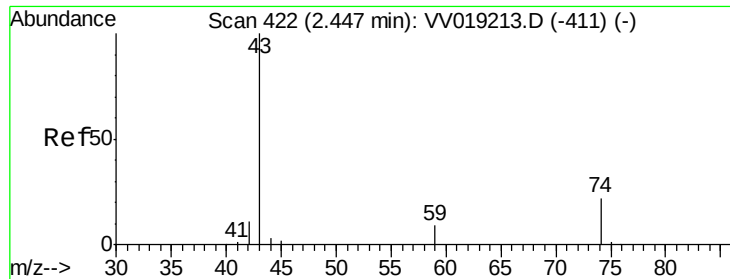
78 9.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019213.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019213.D (-368) (-)

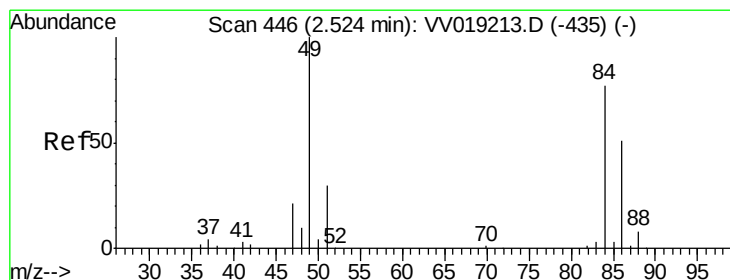
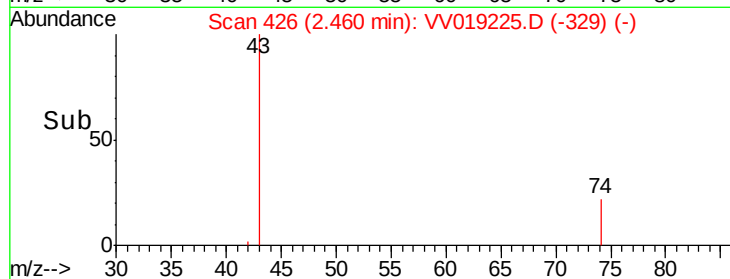
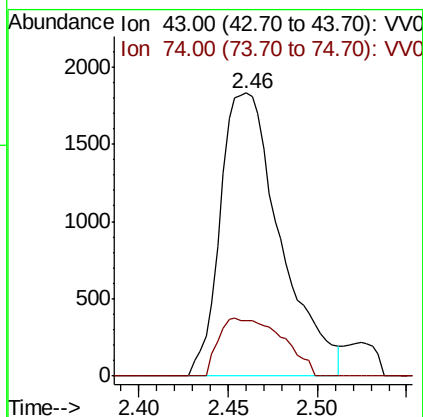
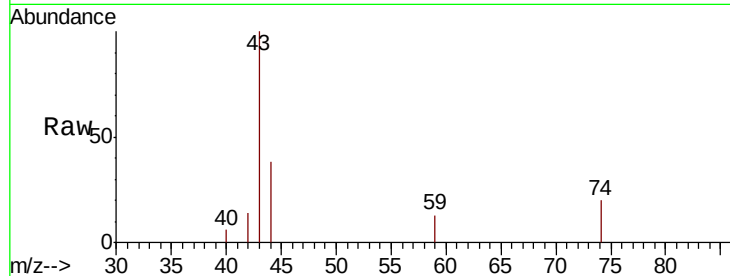




#15
Methvl Acetate
Concen: 2.981 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

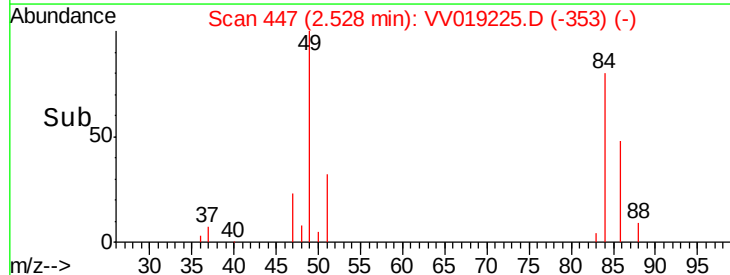
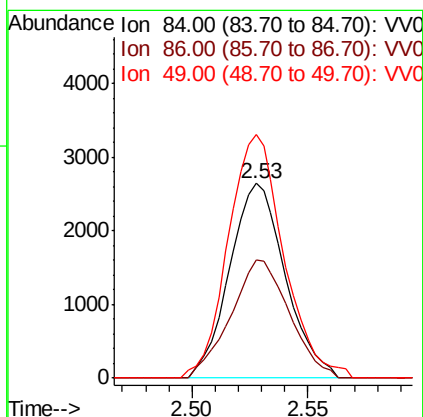
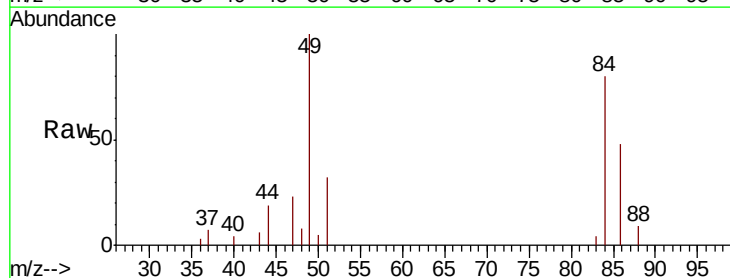
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

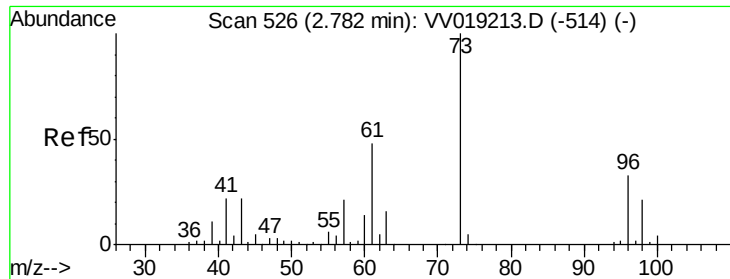
Tot Ion: 43 Resp: 4283
Ion Ratio Lower Upper
43 100
74 8.0 18.8 28.2#



#16
Methylene chloride
Concen: 2.990 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 84 Resp: 4396
Ion Ratio Lower Upper
84 100
86 60.7 45.6 84.8
49 125.2 89.3 165.9

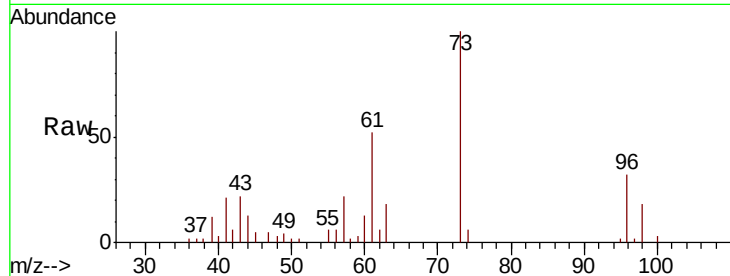




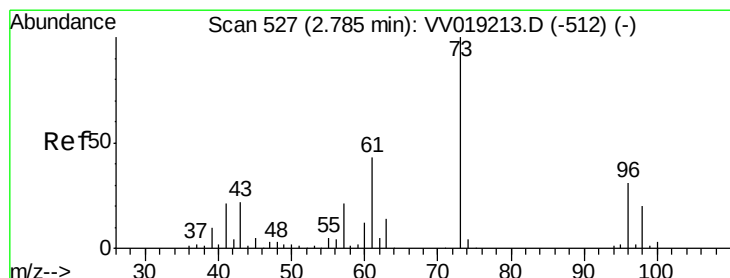
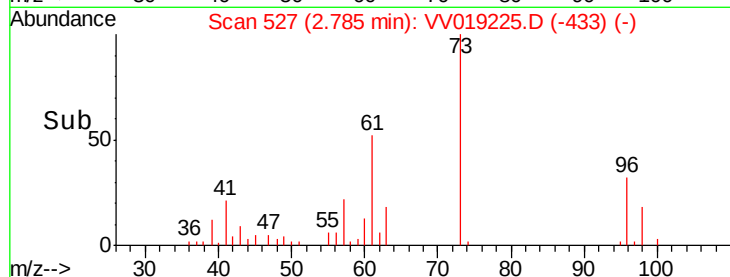
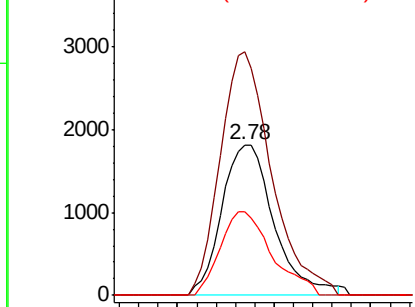
#17
trans-1,2-Dichloroethene
Concen: 2.544 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion: 96 Resp: 3413
Ion Ratio Lower Upper
96 100
61 162.0 100.7 187.1
98 55.7 42.9 79.7

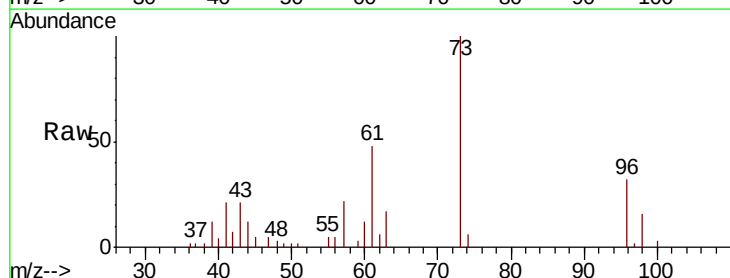


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

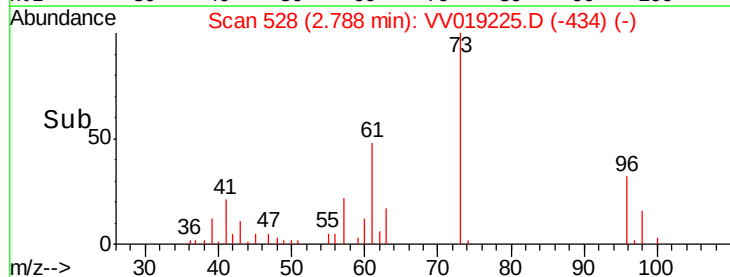
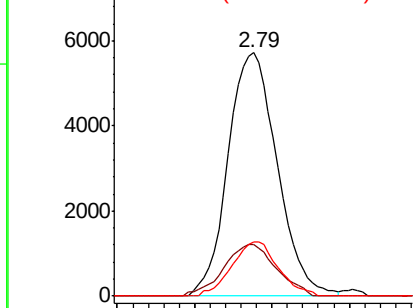


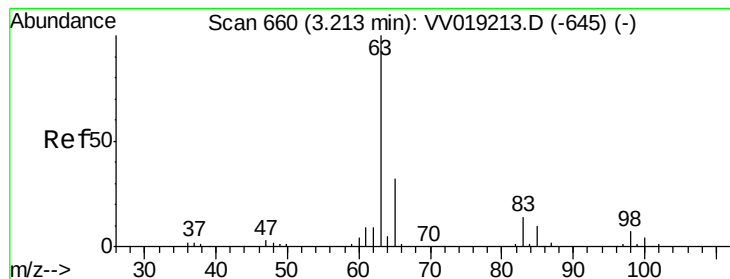
#18
Methyl tert-butyl Ether
Concen: 2.678 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 73 Resp: 12632
Ion Ratio Lower Upper
73 100
43 22.6 17.9 26.9
57 21.2 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: 2.693 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

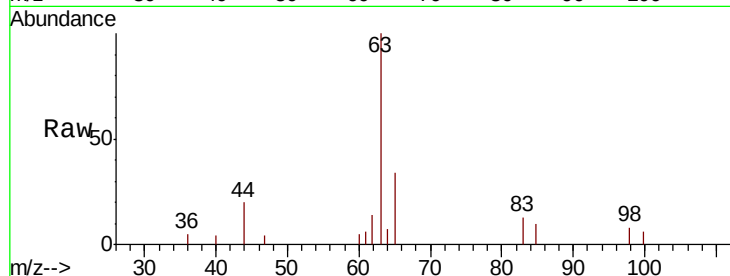
Tot Ion: 63 Resp: 7079

Ion Ratio Lower Upper

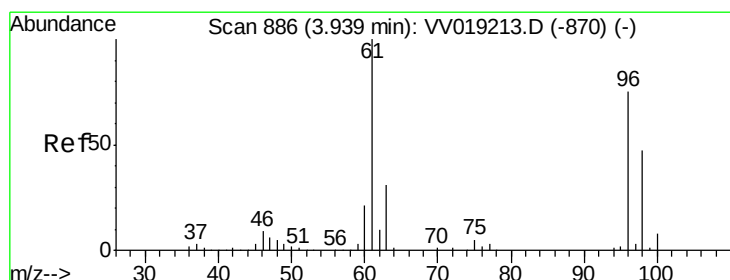
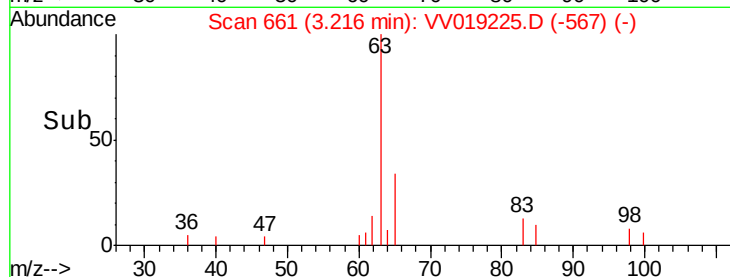
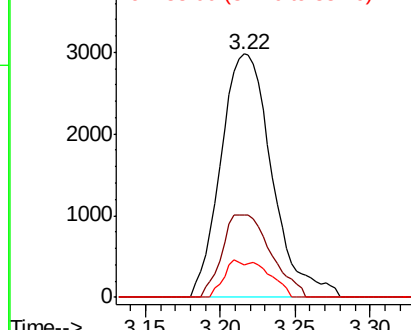
63 100

65 33.9 21.8 40.6

83 13.4 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.613 ug/L

RT: 3.95 min Scan# 888

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

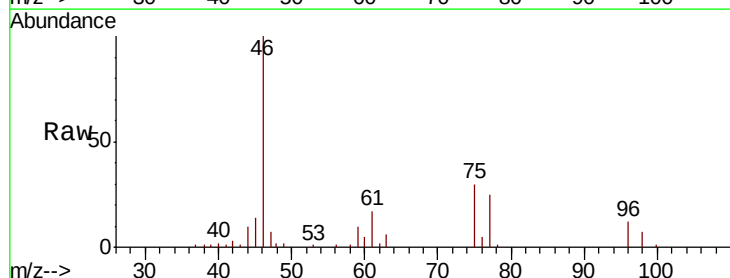
Tgt Ion: 96 Resp: 3875

Ion Ratio Lower Upper

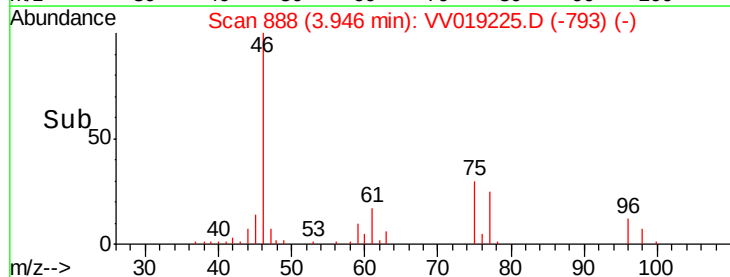
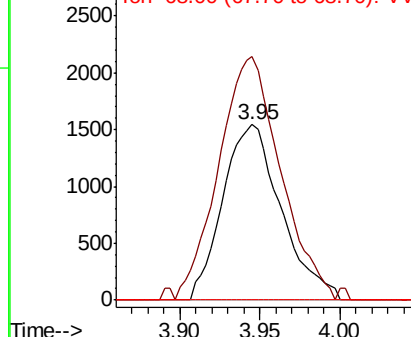
96 100

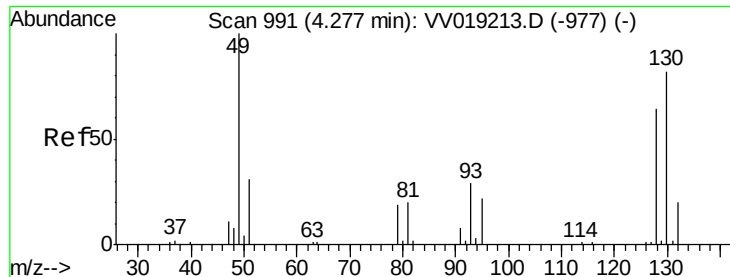
61 138.6 95.6 177.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#23

Bromochloromethane

Concen: 1.645 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion:128 Resp: 1343

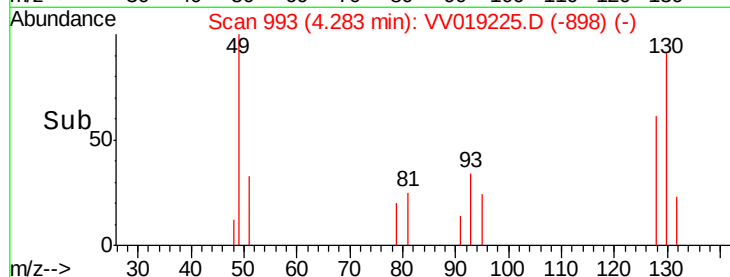
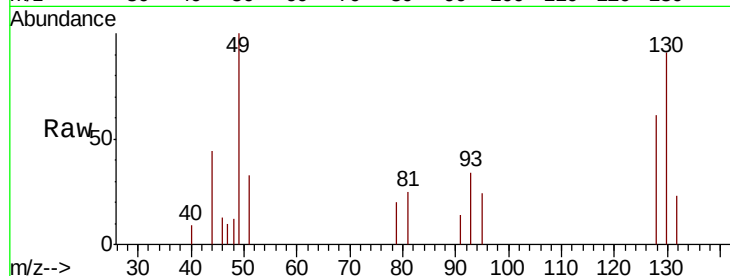
Ion Ratio Lower Upper

128 100

49 164.0 108.8 202.2

130 149.5 88.5 164.3

51 54.6 37.8 56.6

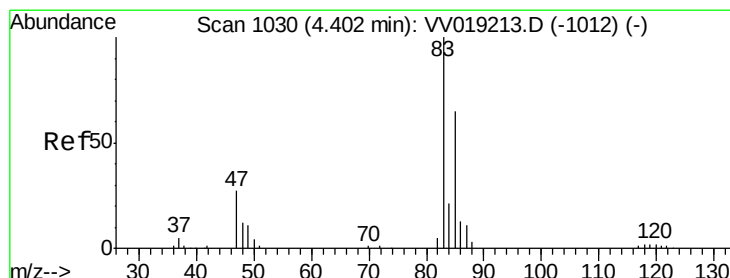
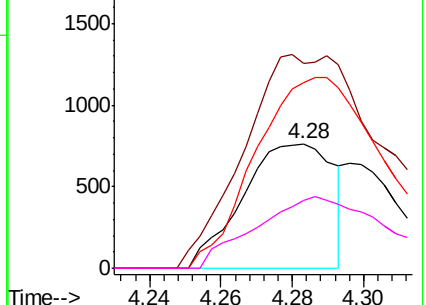


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 3.004 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV019225.D

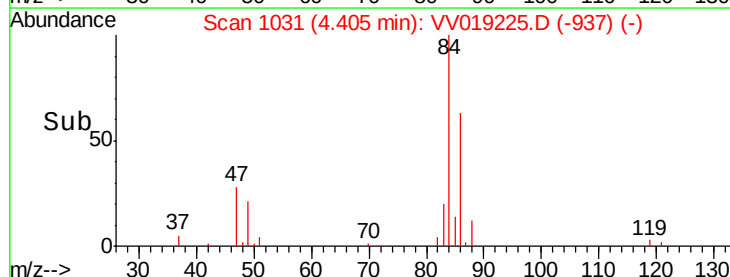
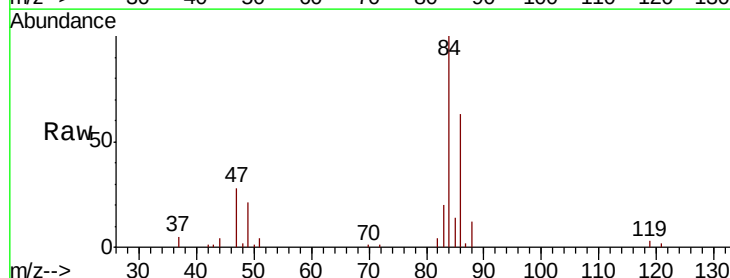
Acq: 03 Nov 2020 02:51

Tgt Ion: 83 Resp: 8468

Ion Ratio Lower Upper

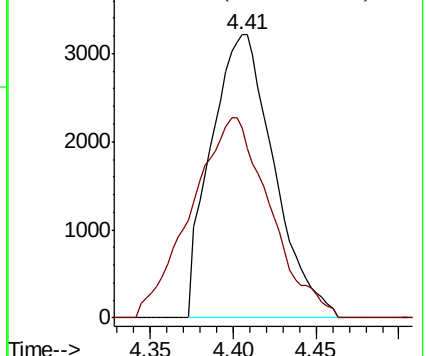
83 100

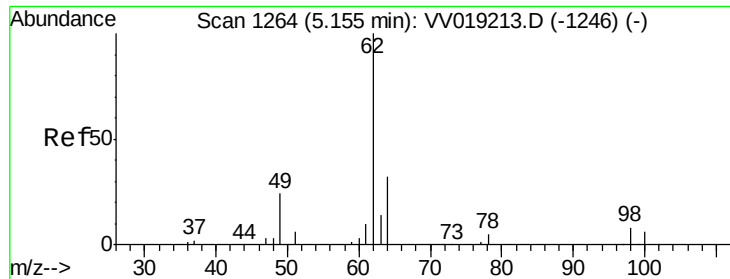
85 67.1 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

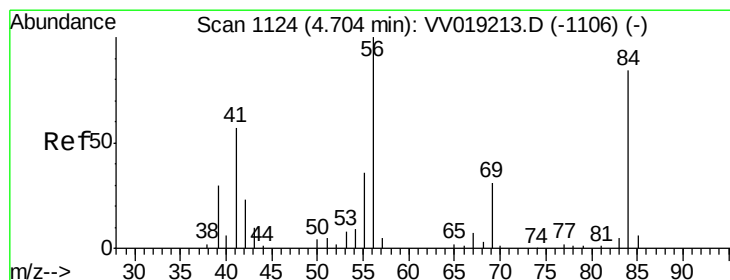
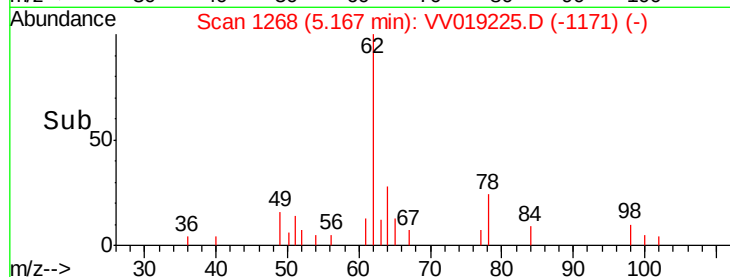
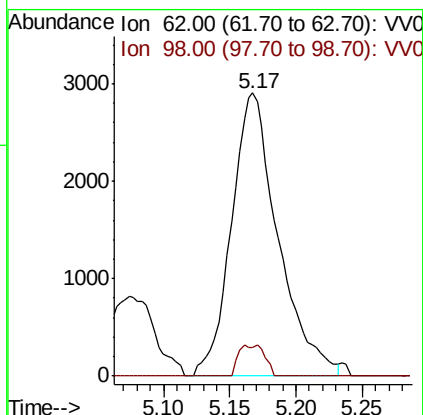
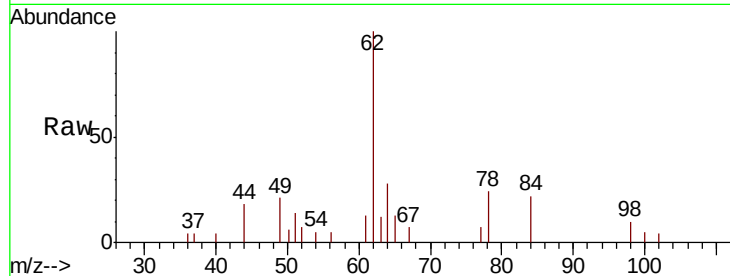




#27
 1,2-Dichloroethane
 Concen: 2.966 ug/L
 RT: 5.17 min Scan# 1268
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

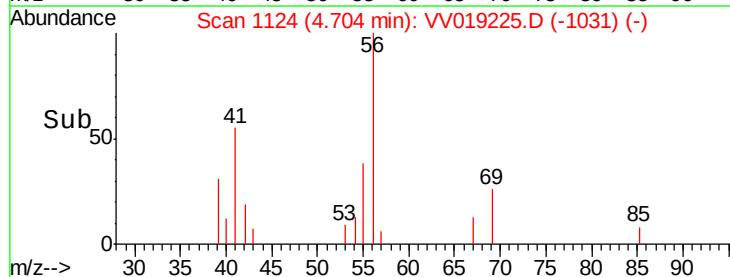
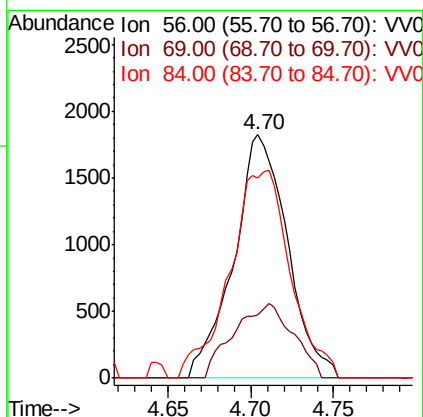
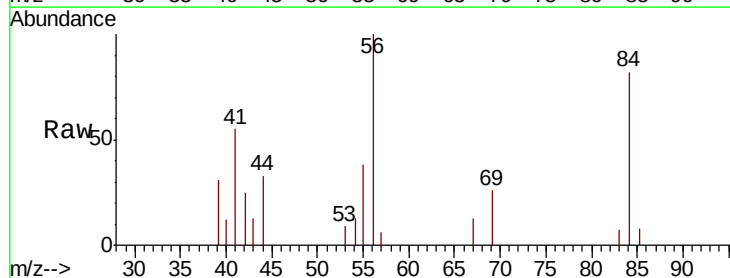
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

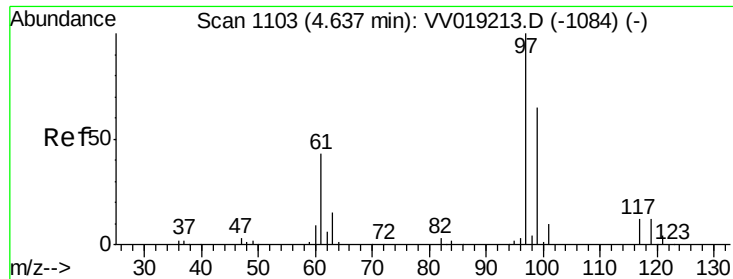
Tot Ion: 62 Resp: 7106
 Ion Ratio Lower Upper
 62 100
 98 10.1 6.8 10.2



#29
 Cyclohexane
 Concen: 2.155 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion: 56 Resp: 4121
 Ion Ratio Lower Upper
 56 100
 69 33.7 24.6 36.8
 84 48.6 70.5 105.7#

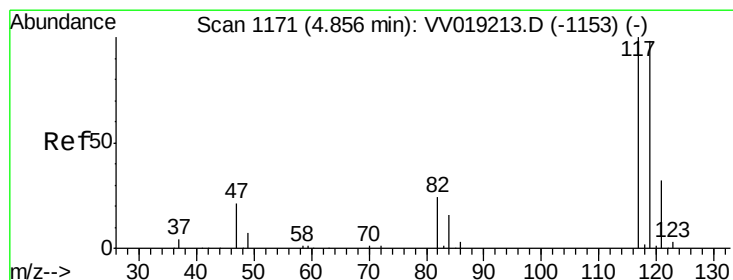
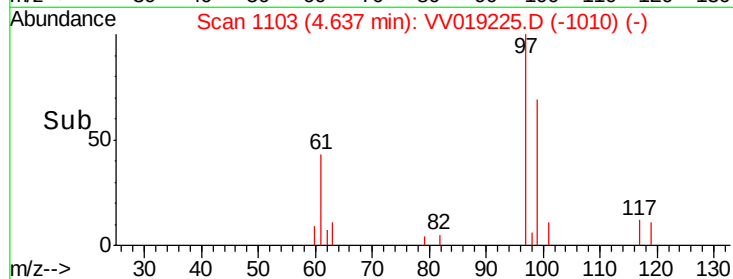
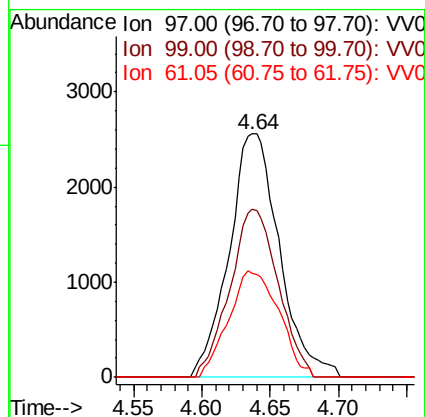
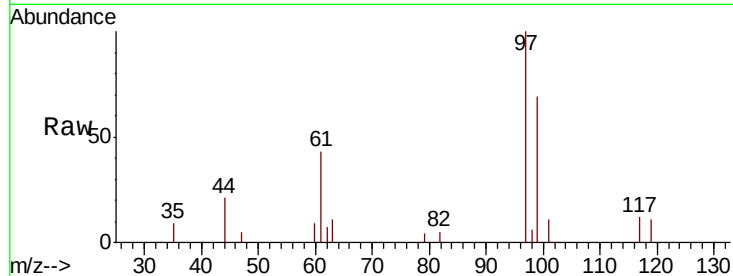




#30
 1,1,1-Trichloroethane
 Concen: 2.539 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

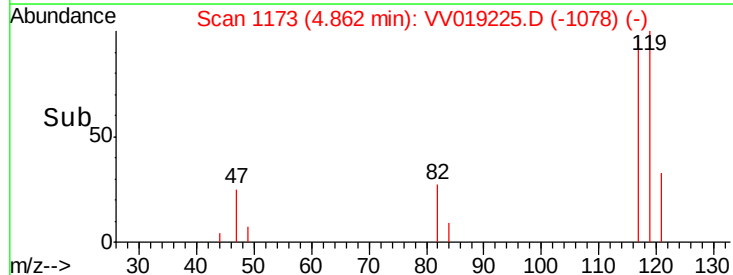
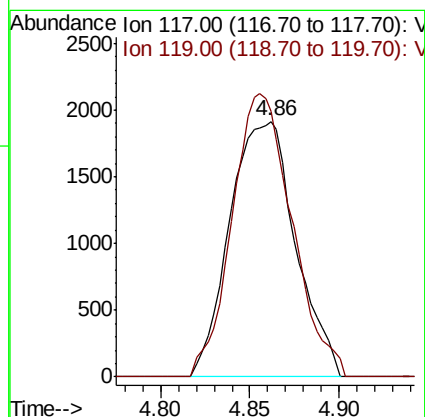
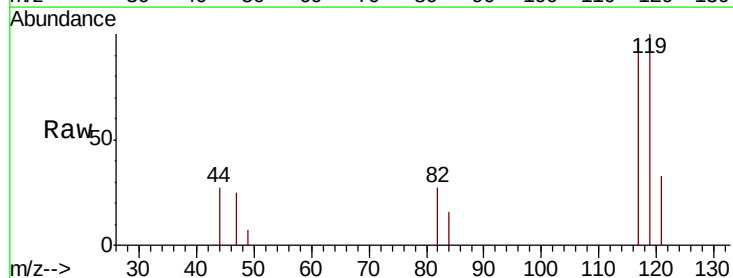
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

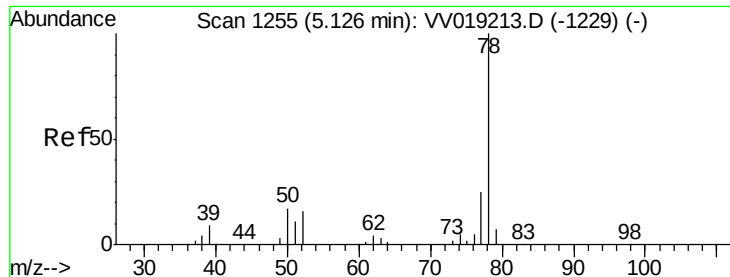
Tot Ion: 97 Resp: 6578
 Ion Ratio Lower Upper
 97 100
 99 65.9 52.0 78.0
 61 43.3 35.3 52.9



#31
 Carbon tetrachloride
 Concen: 2.202 ug/L
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion: 117 Resp: 4926
 Ion Ratio Lower Upper
 117 100
 119 101.3 77.8 116.6





#33

Benzene

Concen: 2.426 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

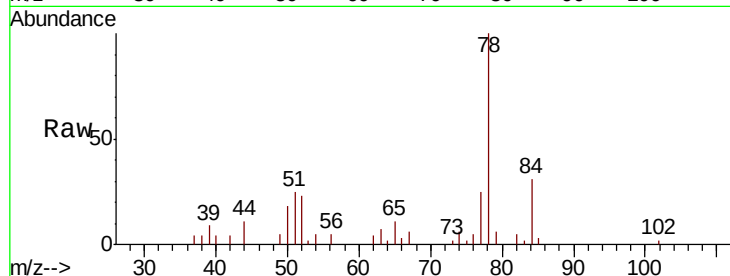
Instrument :

MSVOA_V

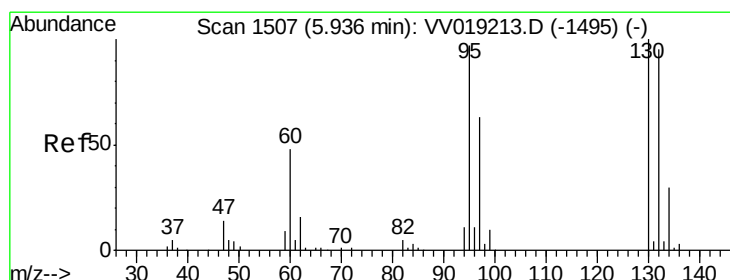
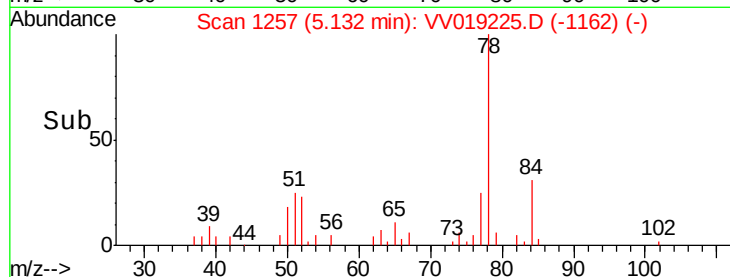
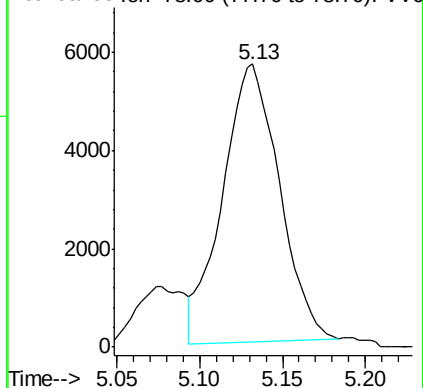
ClientSampleId :

MDL-WATER-03

Tgt Ion: 78 Resp: 13472



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 2.458 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion: 95 Resp: 3709

Ion	Ratio	Lower	Upper
95	100		
97	68.4	45.4	84.4
132	92.3	68.5	127.3
130	95.8	72.0	133.6

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

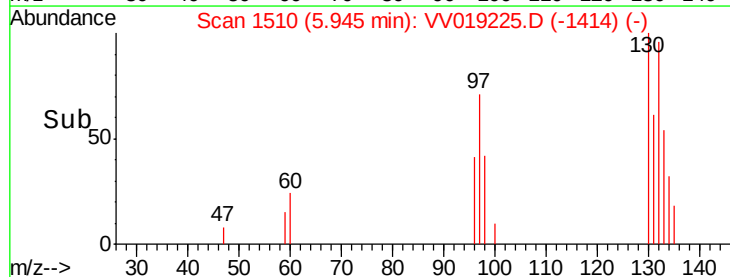
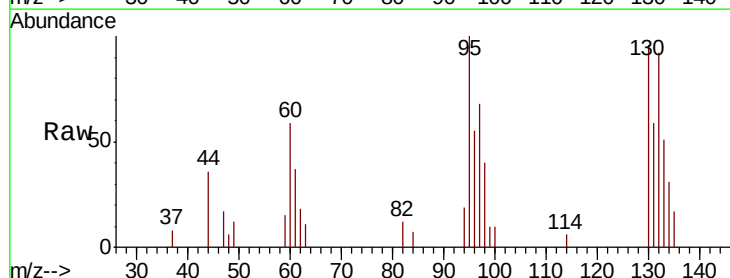
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Time-->



Abundance Ion 95.00 (94.70 to 95.70): VV0

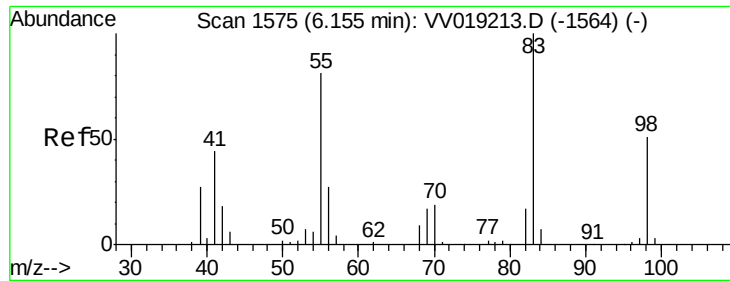
Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Time-->

Time-->



#35

Methvlcvclohexane

Concen: 2.250 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

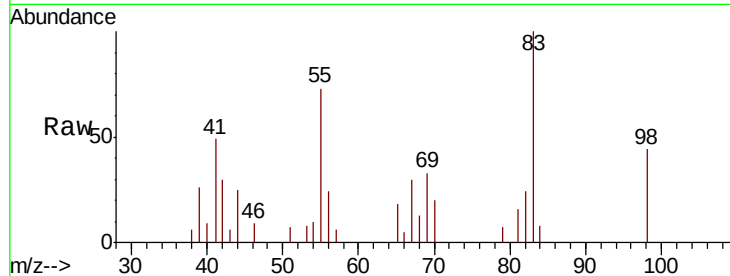
Tot Ion: 83 Resp: 4109

Ion Ratio Lower Upper

83 100

55 73.8 62.8 94.2

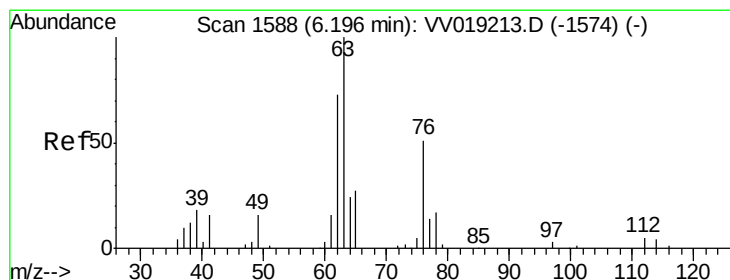
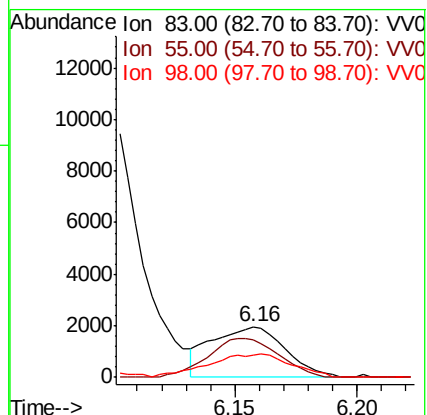
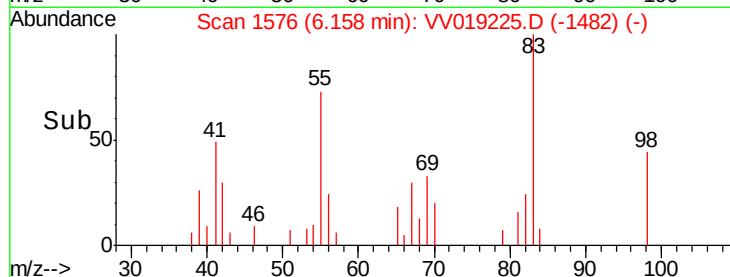
98 51.8 38.6 58.0



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#37

1,2-Dichloropropane

Concen: 2.714 ug/L

RT: 6.21 min Scan# 1591

Delta R.T. 0.01 min

Lab File: VV019225.D

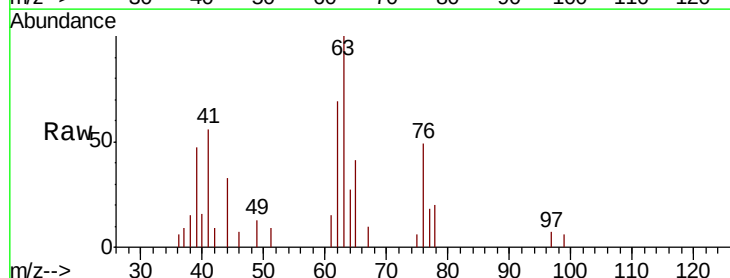
Acq: 03 Nov 2020 02:51

Tgt Ion: 63 Resp: 4021

Ion Ratio Lower Upper

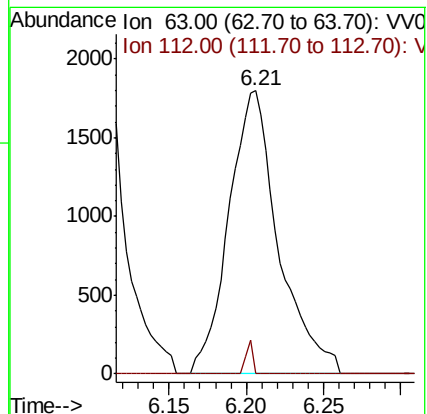
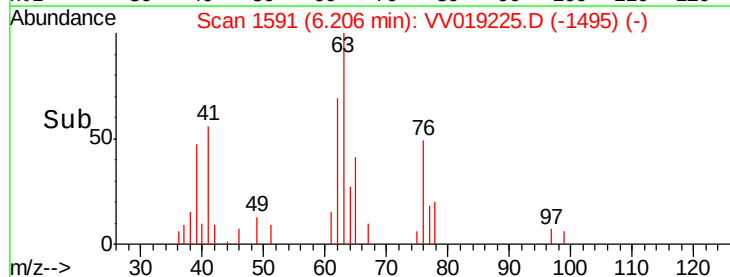
63 100

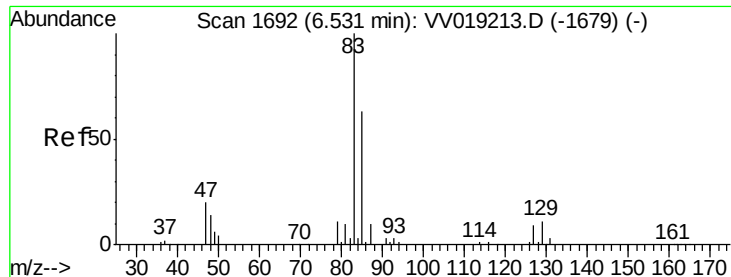
112 1.5 4.2 6.2#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V

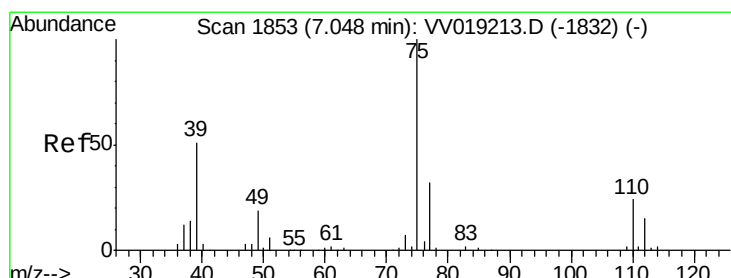
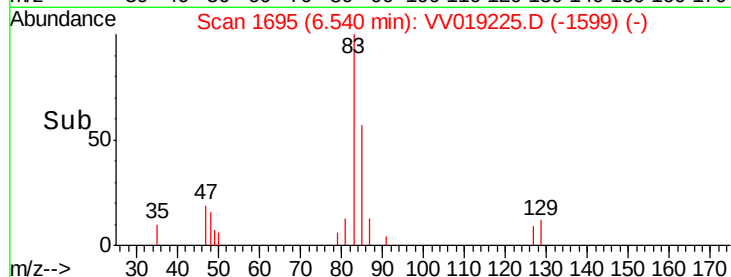
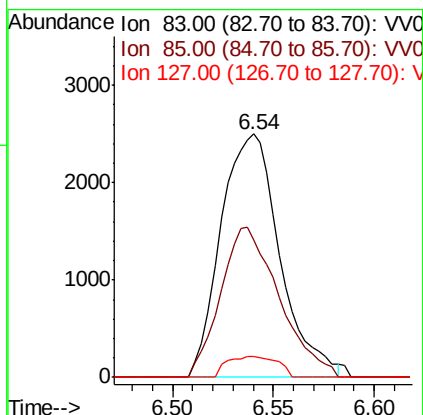
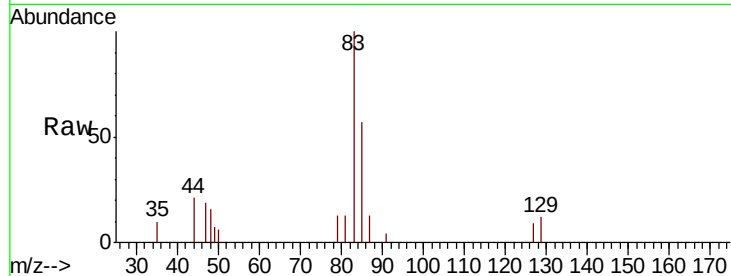




#38
 Bromodichloromethane
 Concen: 2.391 ug/L
 RT: 6.54 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

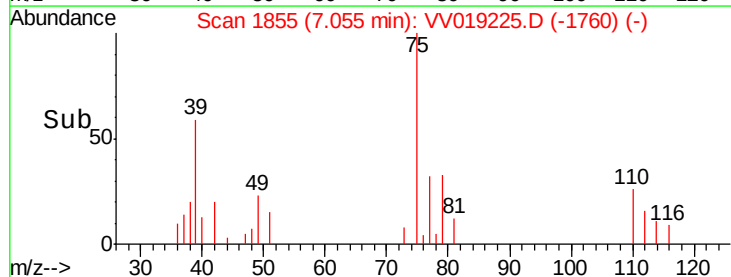
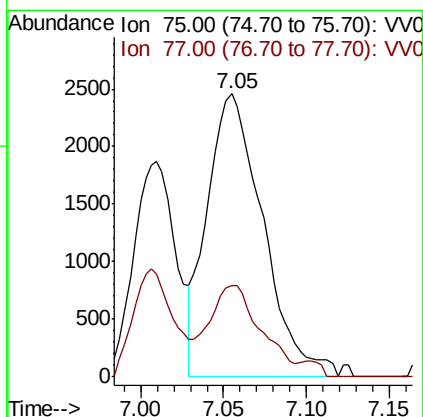
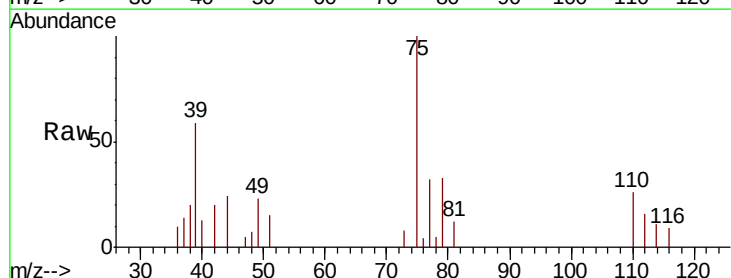
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

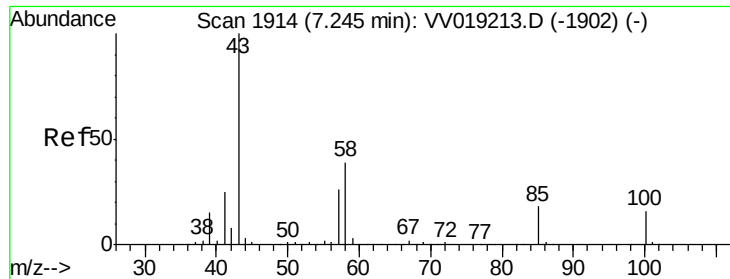
Tot Ion: 83 Resp: 5099
 Ion Ratio Lower Upper
 83 100
 85 56.6 44.0 81.8
 127 8.7 7.3 10.9



#39
 cis-1,3-Dichloropropene
 Concen: 2.432 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion: 75 Resp: 5766
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.2 41.2

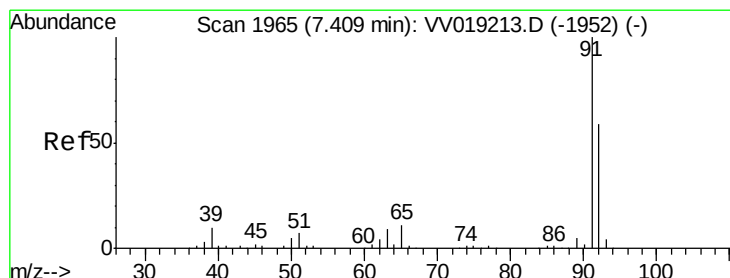
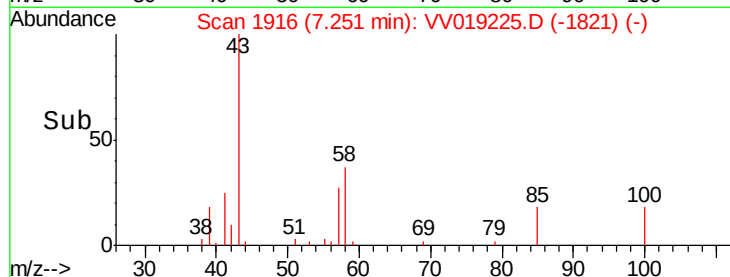
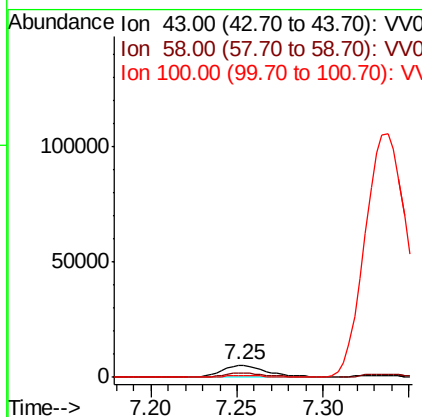
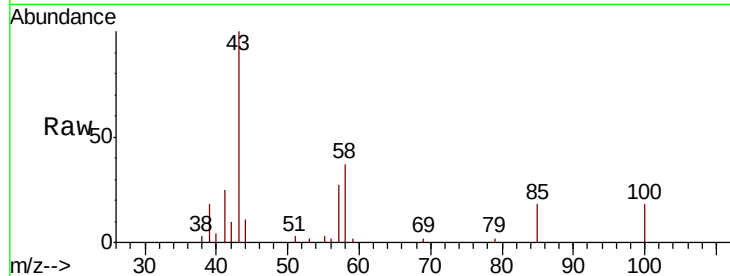




#40
4-Methyl-2-pentanone
Concen: 4.869 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

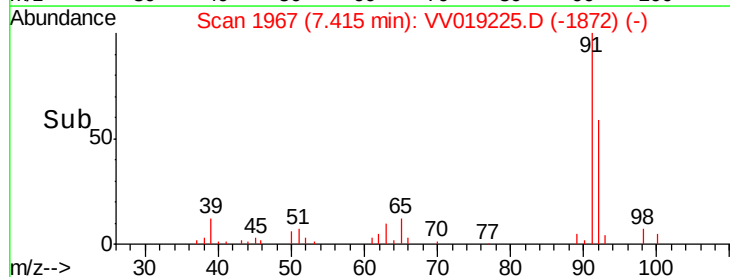
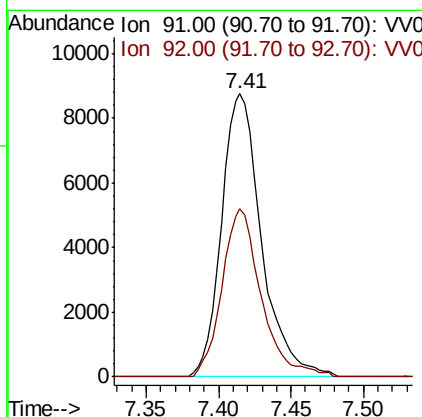
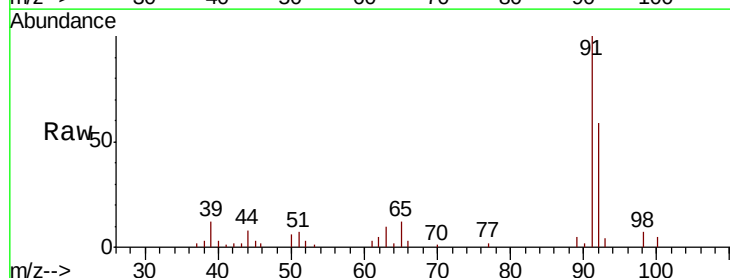
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

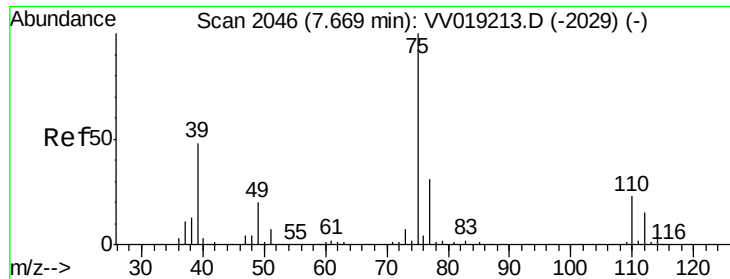
Tot Ion: 43 Resp: 9693
Ion Ratio Lower Upper
43 100
58 36.1 30.5 45.7
100 14.4 12.7 19.1



#42
Toluene
Concen: 2.793 ug/L
RT: 7.41 min Scan# 1967
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 91 Resp: 16764
Ion Ratio Lower Upper
91 100
92 59.3 40.6 75.4





#44

trans-1,3-Dichloropropene

Concen: 2.352 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

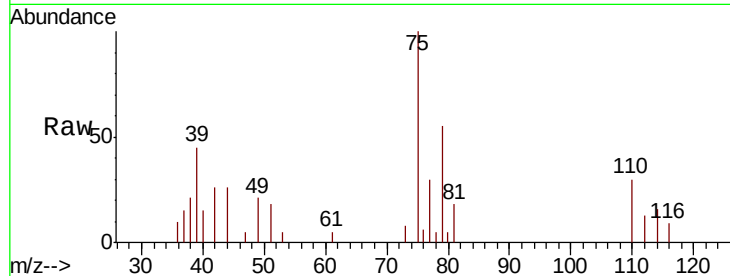
MDL-WATER-03

Tot Ion: 75 Resp: 5715

Ion Ratio Lower Upper

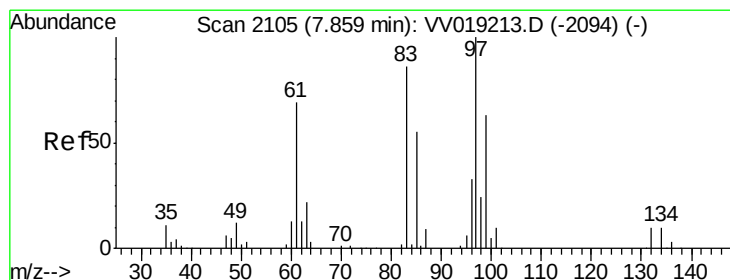
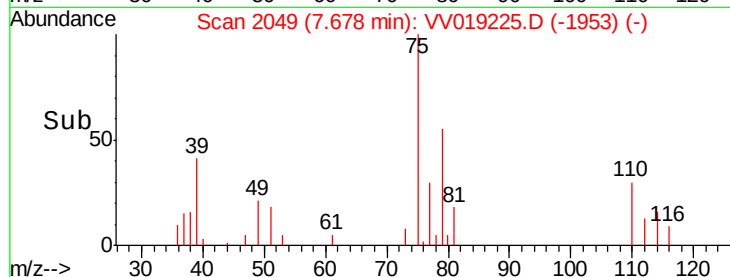
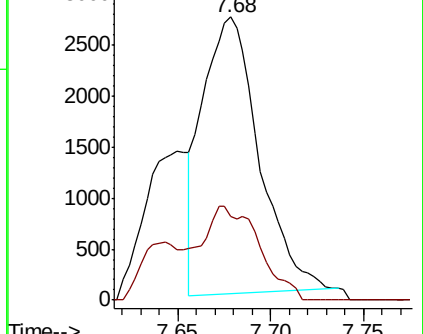
75 100

77 29.6 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#45

1,1,2-Trichloroethane

Concen: 2.573 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion: 97 Resp: 3769

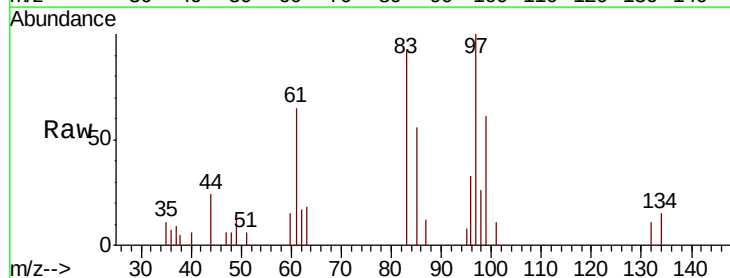
Ion Ratio Lower Upper

97 100

99 60.6 45.1 83.9

83 92.1 57.6 107.0

85 55.6 37.8 70.2

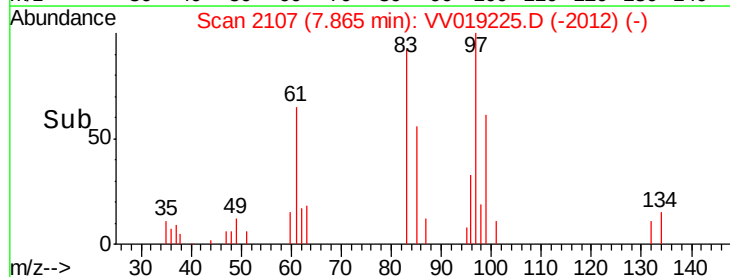
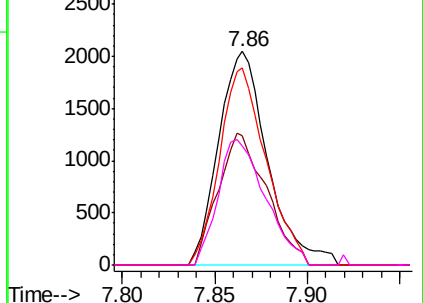


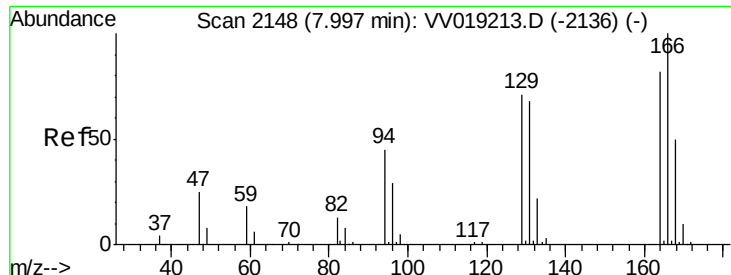
Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

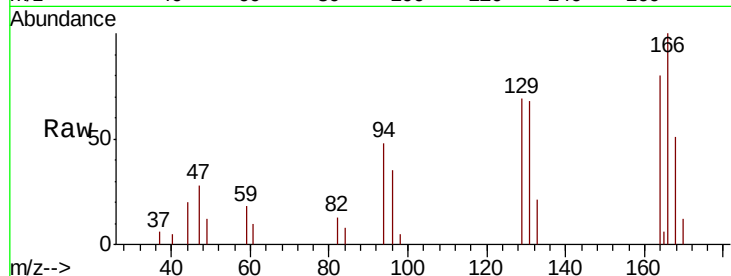




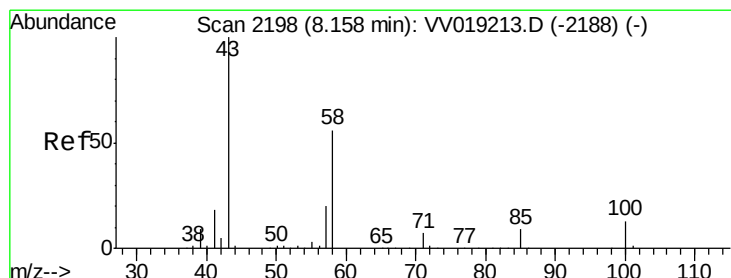
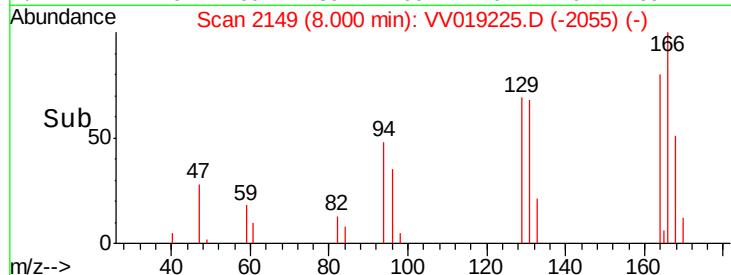
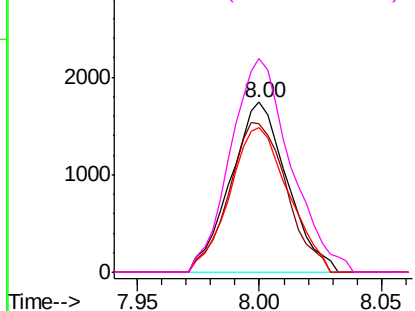
#46
Tetrachloroethene
Concen: 2.273 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion:164 Resp: 2798
Ion Ratio Lower Upper
164 100
129 87.3 62.6 116.3
131 84.9 59.0 109.6
166 125.6 88.0 163.4

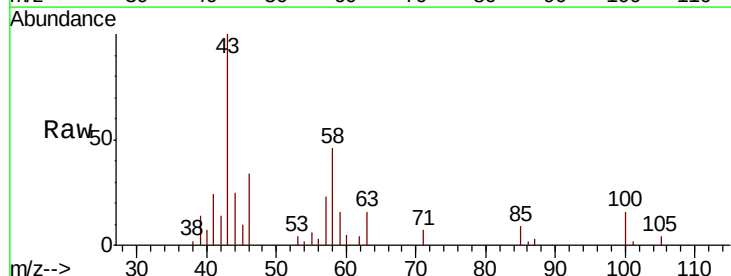


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

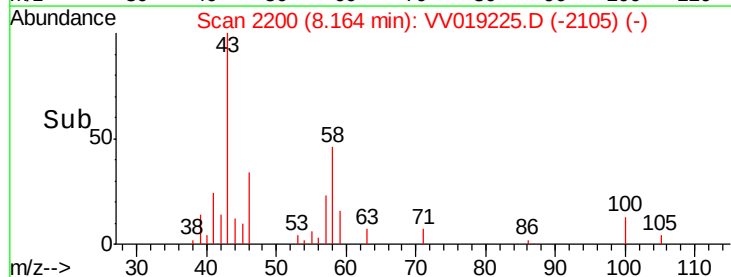
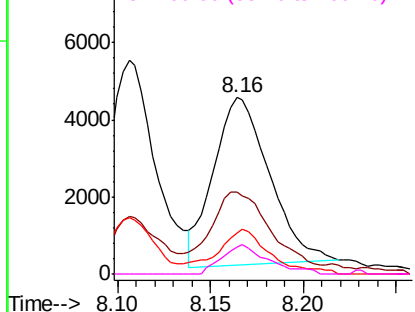


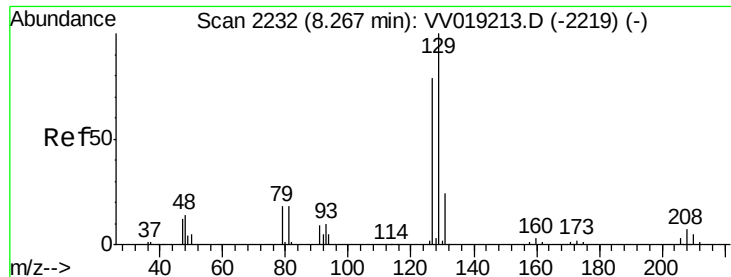
#48
2-Hexanone
Concen: 6.093 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 43 Resp: 9170
Ion Ratio Lower Upper
43 100
58 46.1 42.6 63.8
57 22.4 15.8 23.8
100 13.1 10.4 15.6



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

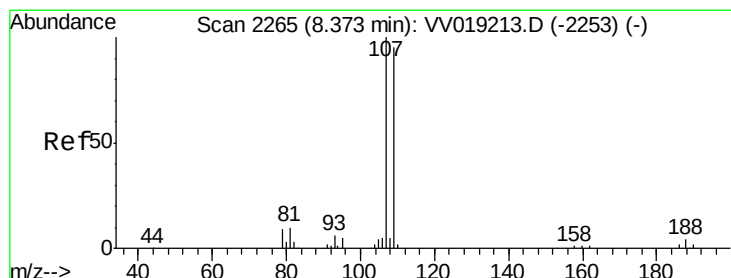
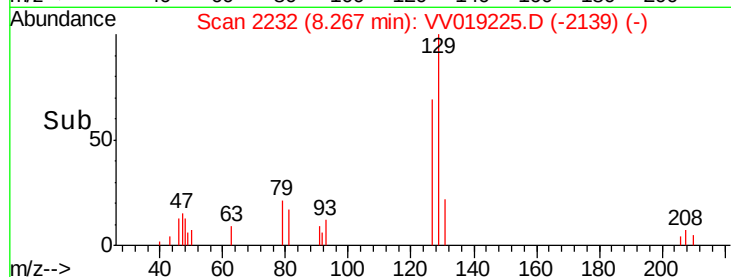
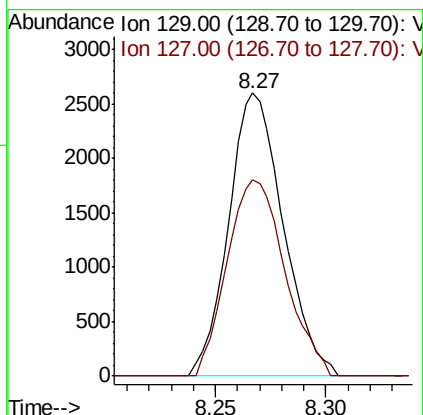
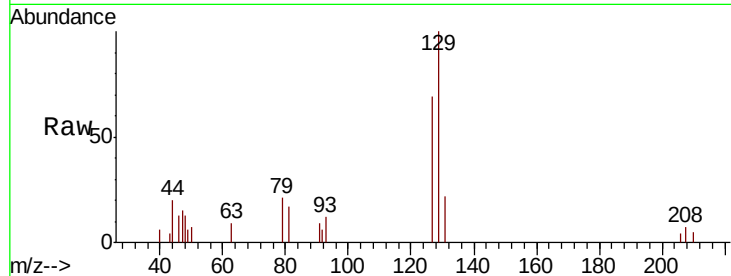




#49
 Dibromochloromethane
 Concen: 2.547 ug/L
 RT: 8.27 min Scan# 2232
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

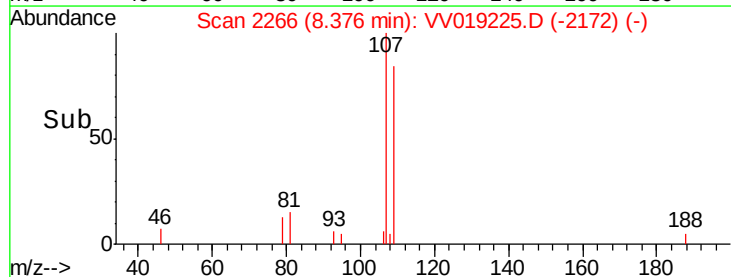
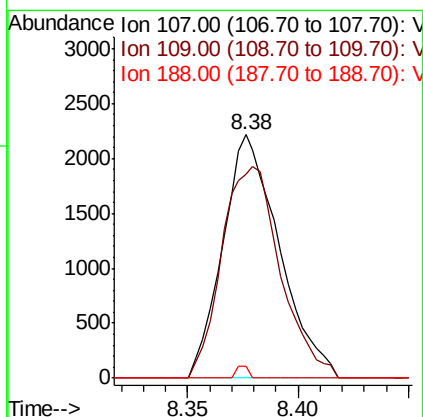
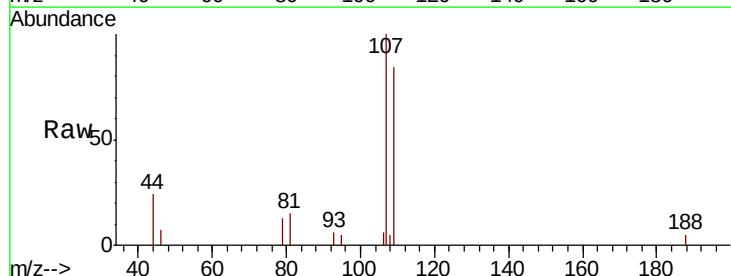
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

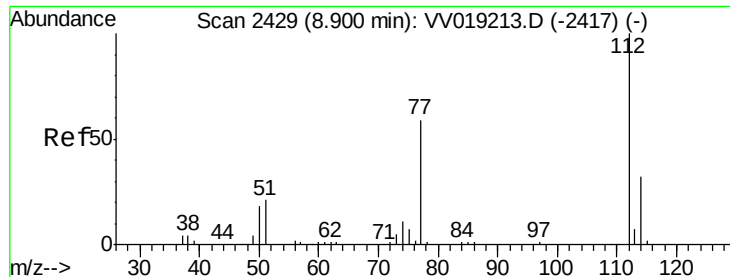
Tot Ion:129 Resp: 4449
 Ion Ratio Lower Upper
 129 100
 127 69.4 54.4 101.0



#50
 1,2-Dibromoethane
 Concen: 2.595 ug/L
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion:107 Resp: 3940
 Ion Ratio Lower Upper
 107 100
 109 83.6 64.8 120.4
 188 4.9 3.8 5.8

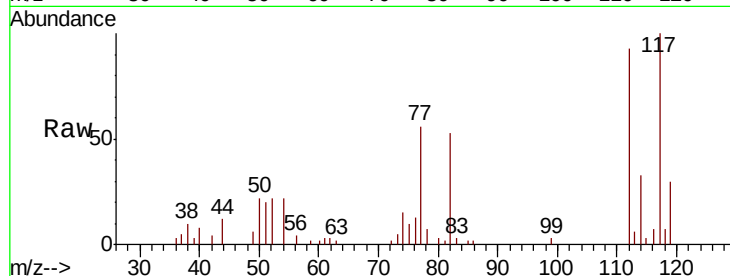




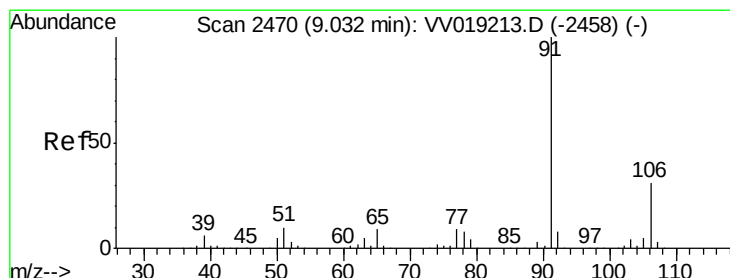
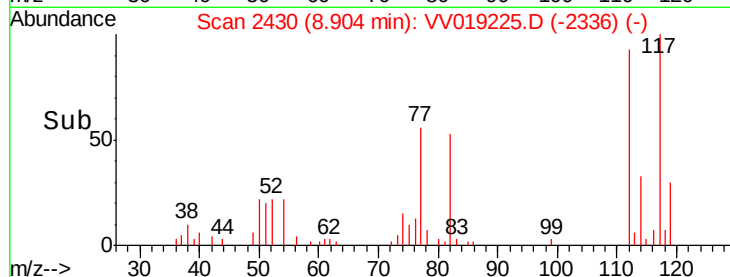
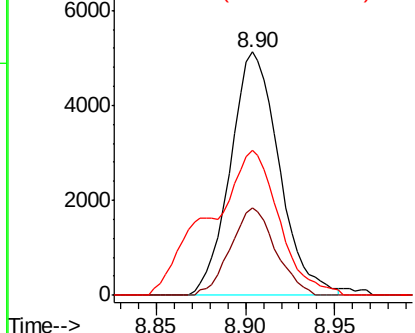
#51
Chlorobenzene
Concen: 2.443 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampled :
MDL-WATER-03

Tot Ion:112 Resp: 9809
Ion Ratio Lower Upper
112 100
114 35.9 22.7 42.1
77 59.8 47.3 70.9

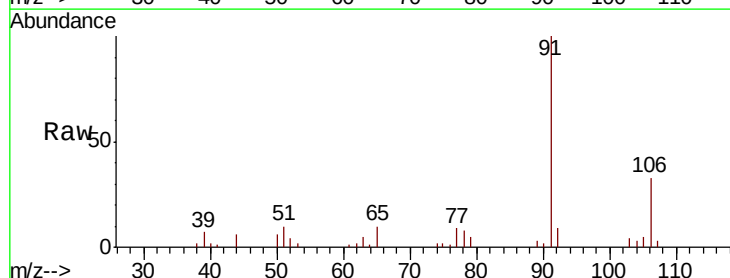


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

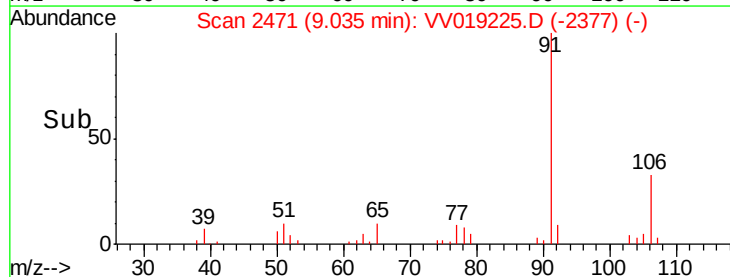
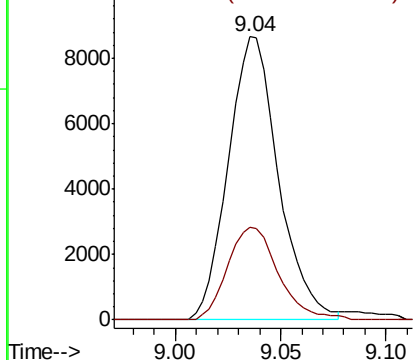


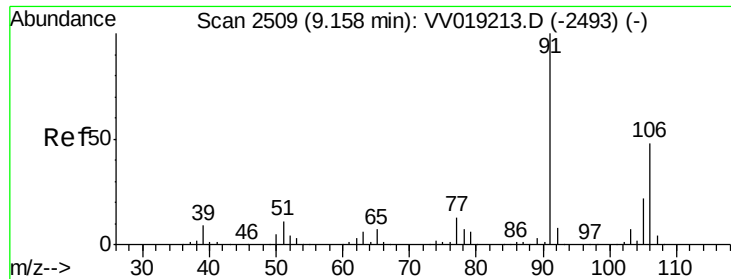
#52
Ethylbenzene
Concen: 2.162 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 91 Resp: 14319
Ion Ratio Lower Upper
91 100
106 32.6 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 106.00 (105.70 to 106.70): V

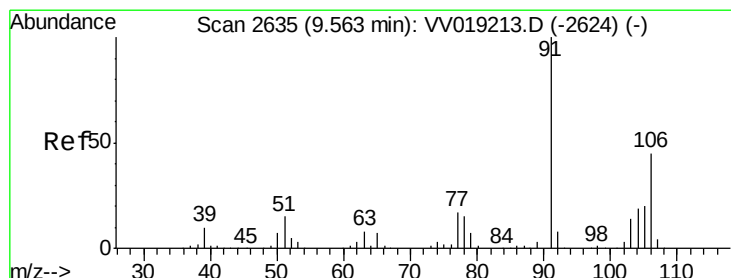
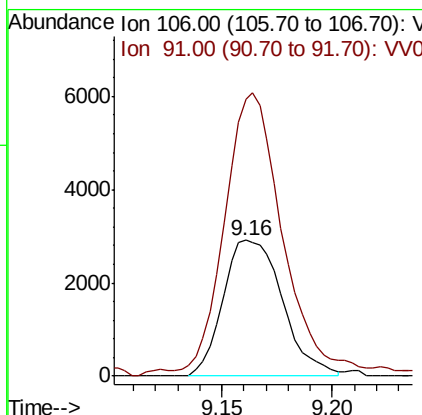
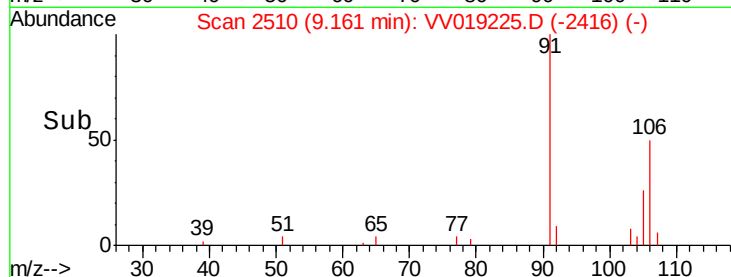
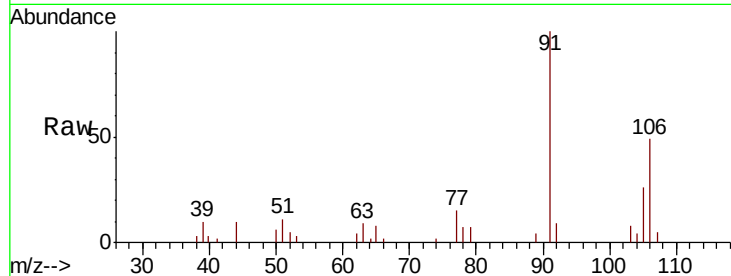




#53
 m,p-Xylene
 Concen: 2.198 ug/L
 RT: 9.16 min Scan# 2510
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

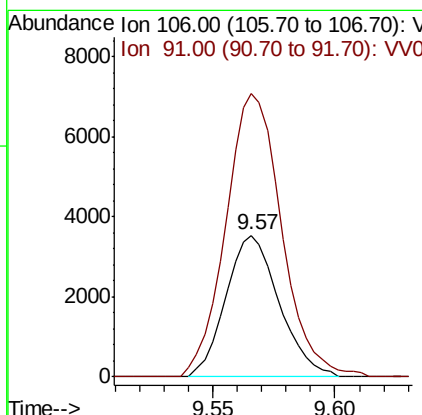
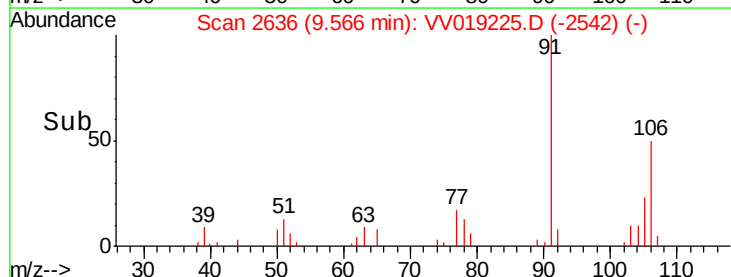
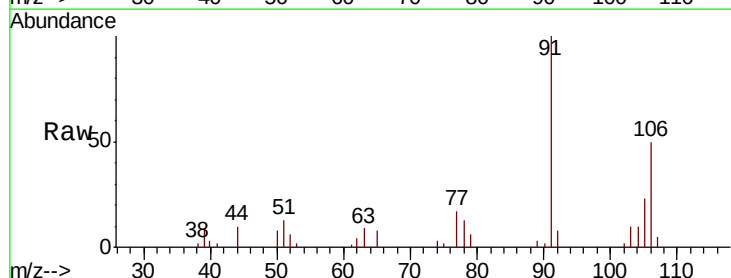
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

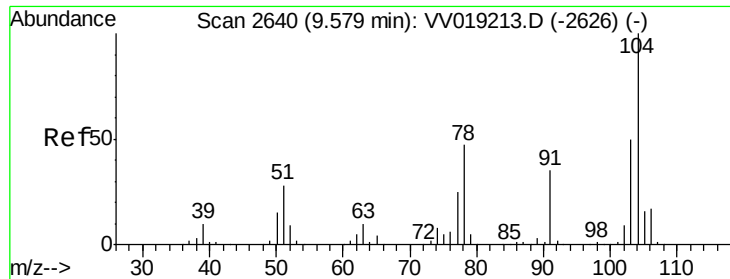
Tot Ion:106 Resp: 5448
 Ion Ratio Lower Upper
 106 100
 91 203.7 147.2 273.4



#54
 o-Xylene
 Concen: 2.198 ug/L
 RT: 9.57 min Scan# 2636
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion:106 Resp: 5371
 Ion Ratio Lower Upper
 106 100
 91 199.9 151.6 281.6





#55

Stvrene

Concen: 1.965 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

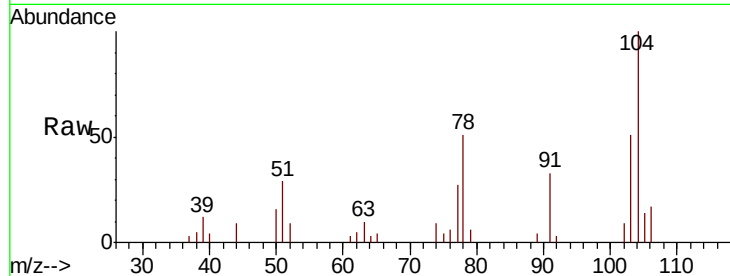
MDL-WATER-03

Tot Ion:104 Resp: 8546

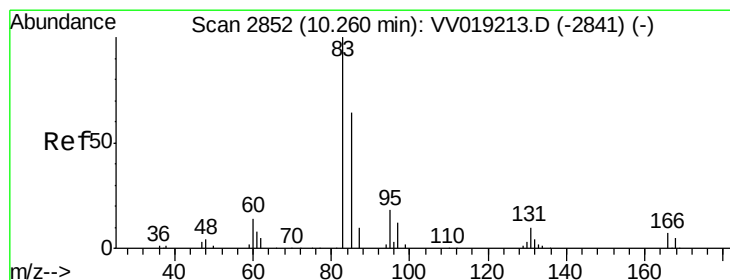
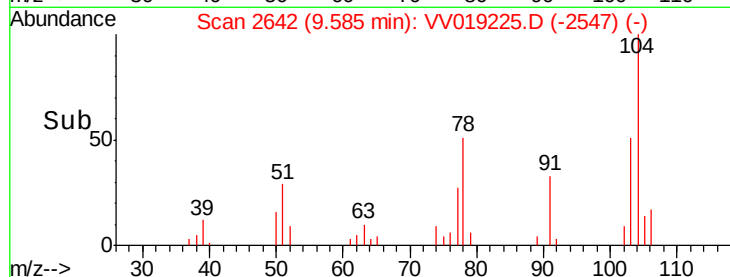
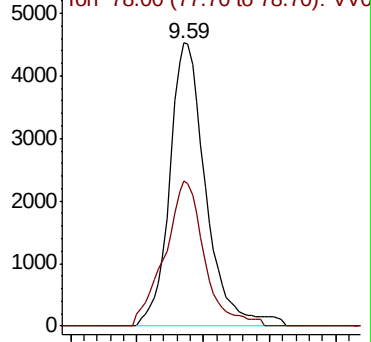
Ion Ratio Lower Upper

104 100

78 51.3 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): VV019213.D (-2626) (-)



#57

1,1,2,2-Tetrachloroethane

Concen: 2.778 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

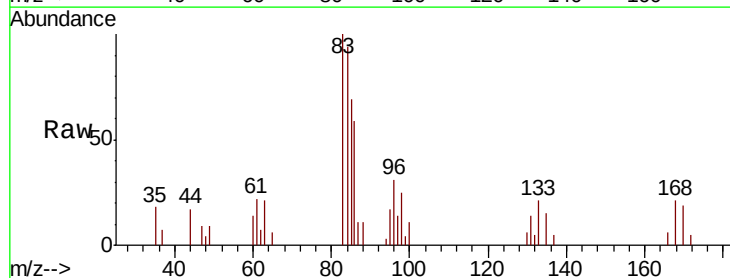
Tgt Ion: 83 Resp: 6155

Ion Ratio Lower Upper

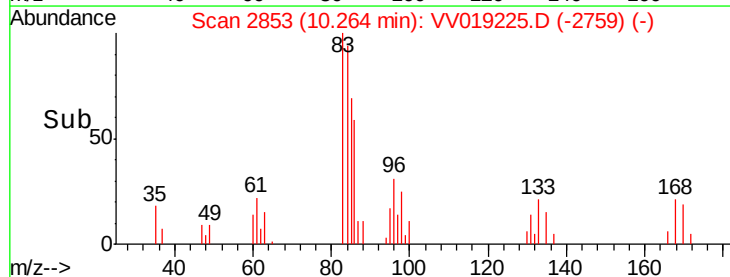
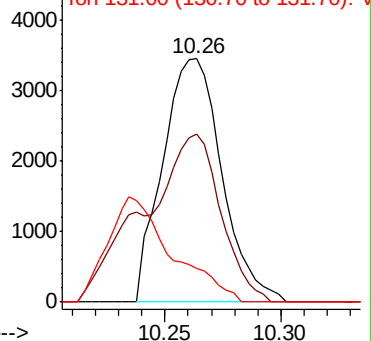
83 100

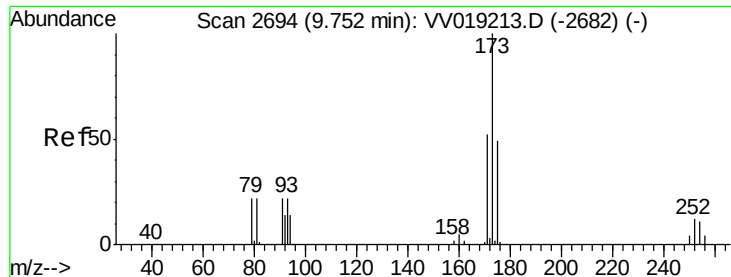
85 68.8 45.0 83.6

131 14.1 8.9 13.3#



Abundance Ion 83.00 (82.70 to 83.70): VV019213.D (-2841) (-)





#59

Bromoform

Concen: 2.559 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

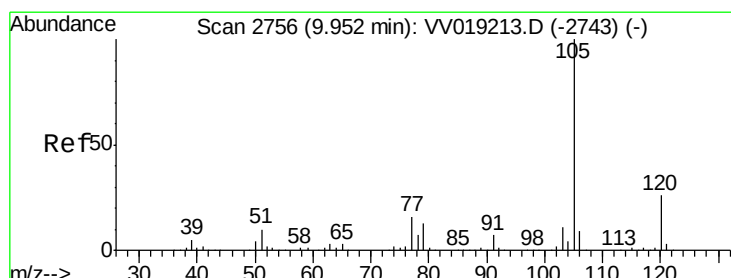
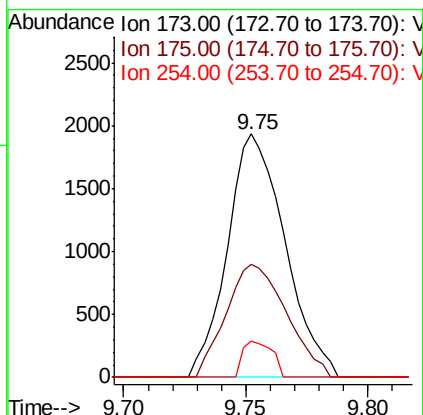
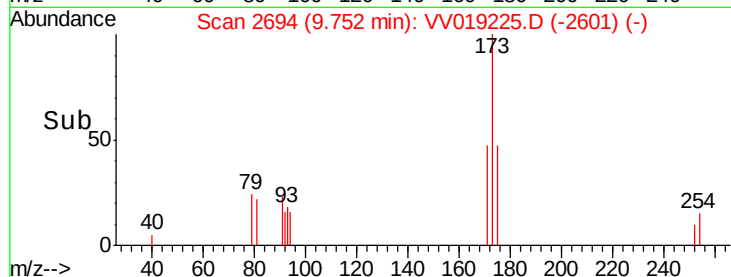
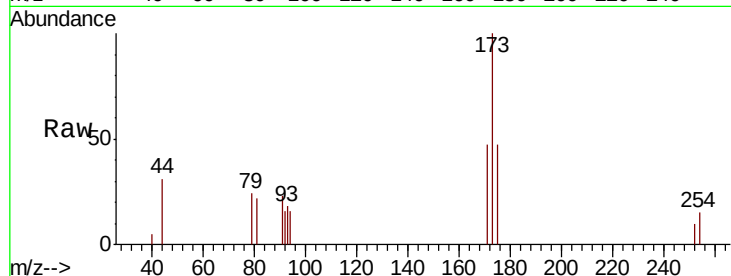
Tot Ion:173 Resp: 3174

Ion Ratio Lower Upper

173 100

175 48.6 38.4 57.6

254 7.5 9.0 13.6#



#60

Isopropylbenzene

Concen: 2.223 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

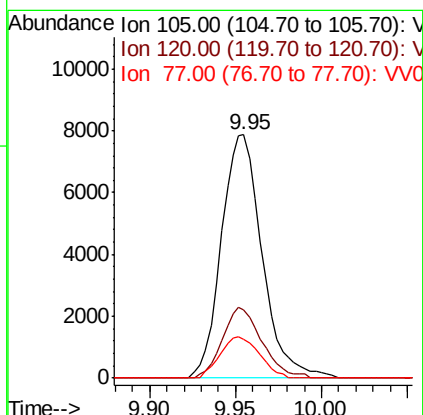
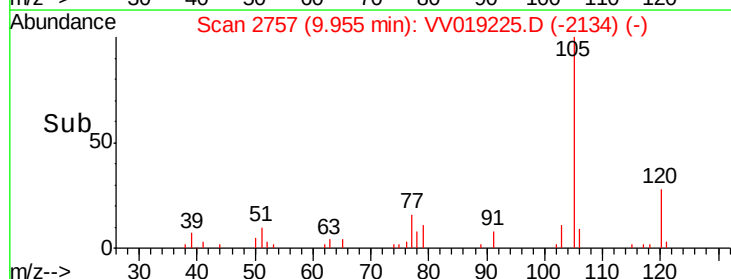
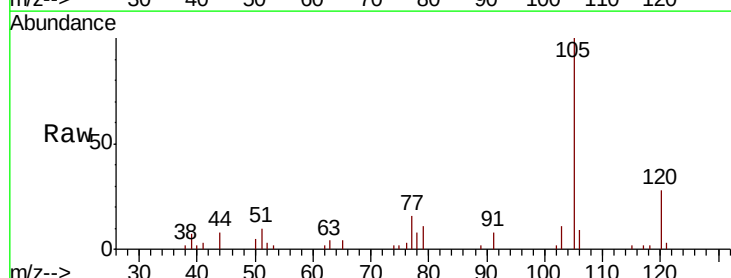
Tgt Ion:105 Resp: 13019

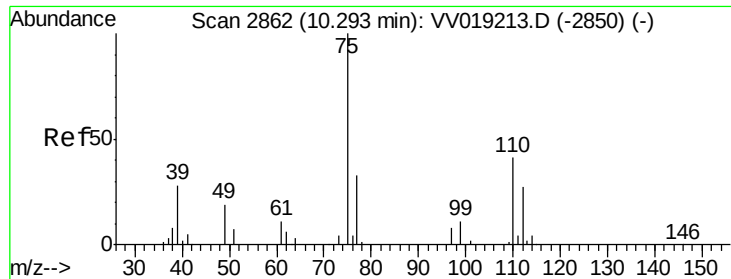
Ion Ratio Lower Upper

105 100

120 28.0 21.0 31.4

77 16.4 13.0 19.6

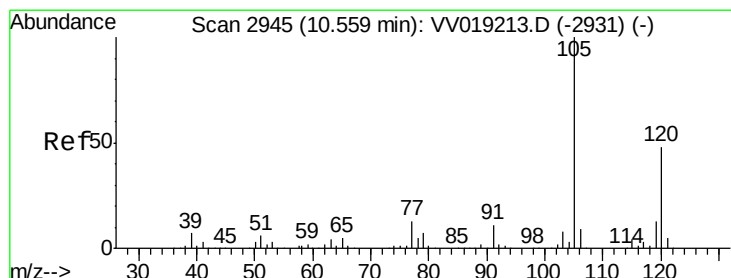
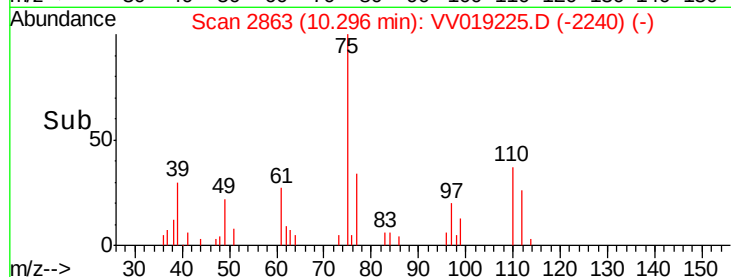
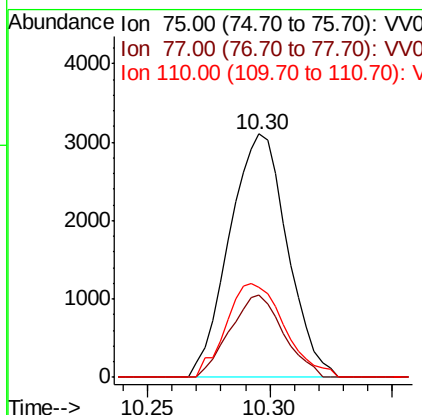
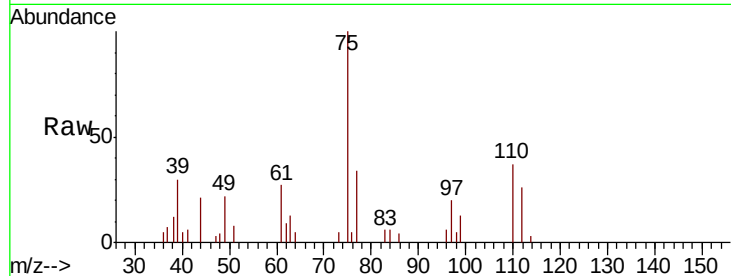




#61
 1,2,3-Trichloropropane
 Concen: 2.944 ug/L
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

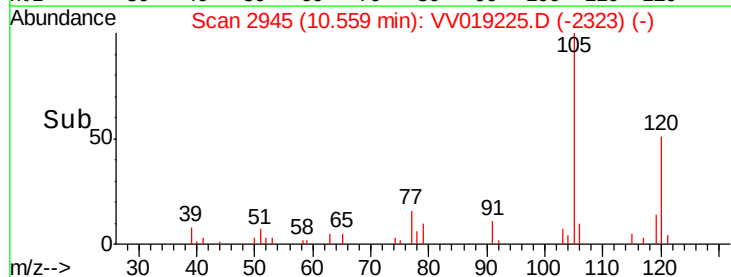
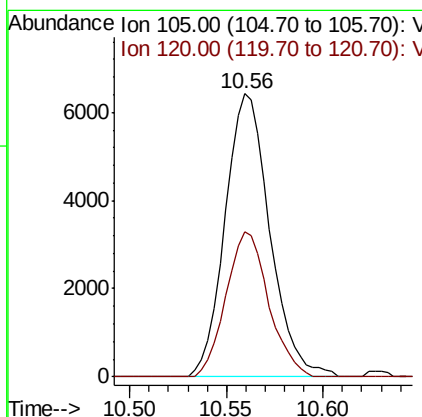
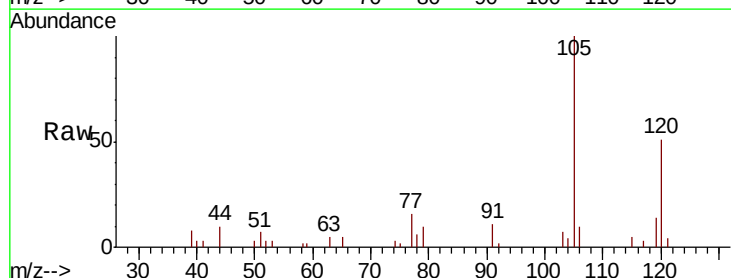
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

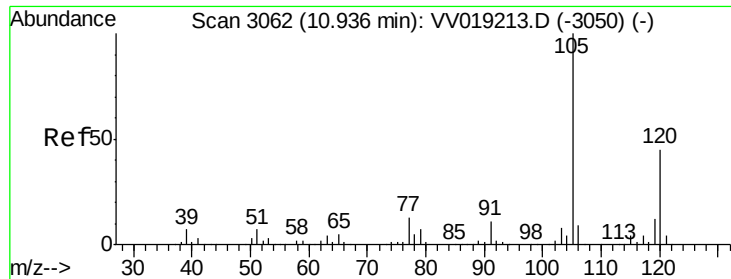
Tot Ion: 75 Resp: 5110
 Ion Ratio Lower Upper
 75 100
 77 31.3 24.8 37.2
 110 39.0 33.4 50.2



#62
 1,3,5-Trimethylbenzene
 Concen: 2.115 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion: 105 Resp: 10317
 Ion Ratio Lower Upper
 105 100
 120 48.6 38.3 57.5

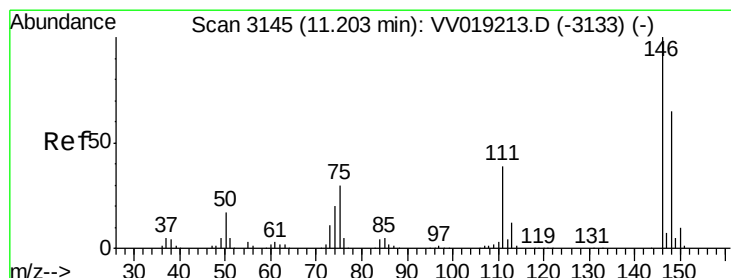
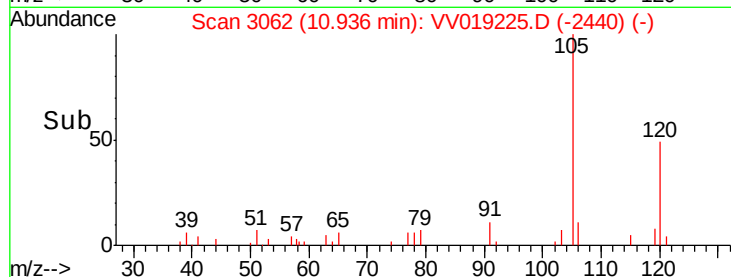
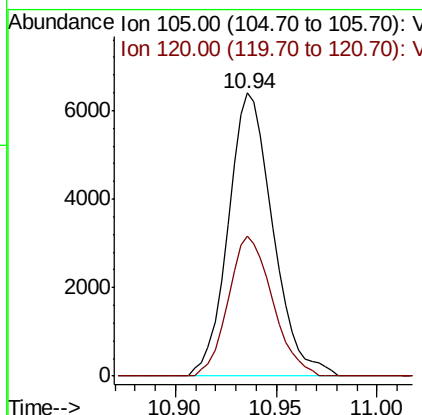
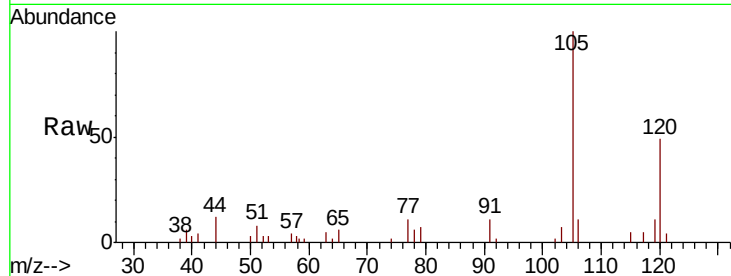




#63
 1,2,4-Trimethylbenzene
 Concen: 2.075 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

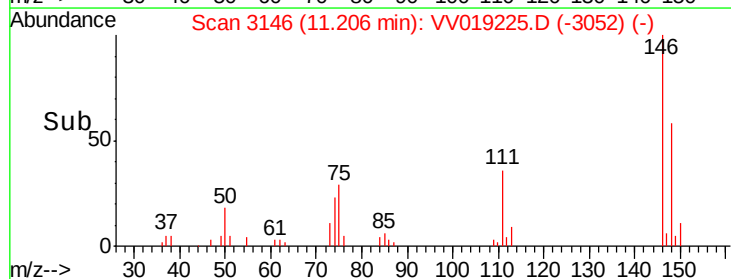
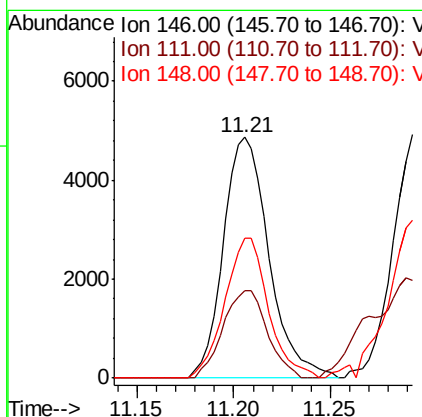
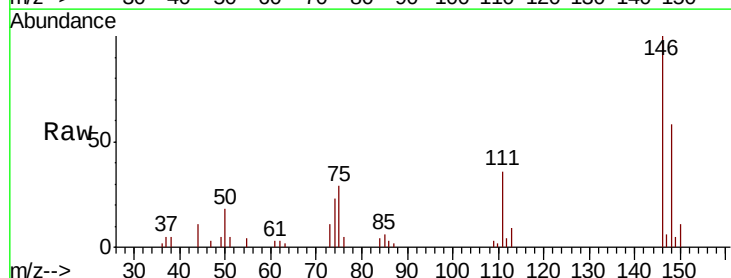
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

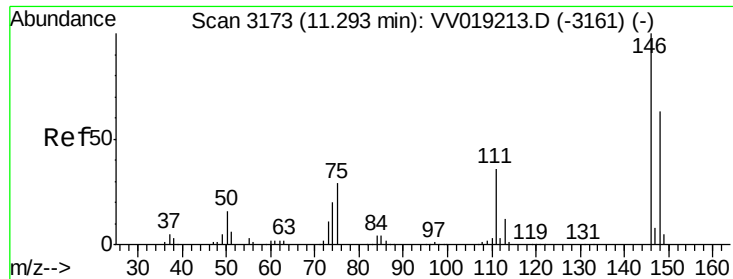
Tot Ion:105 Resp: 9903
 Ion Ratio Lower Upper
 105 100
 120 49.0 35.7 53.5



#64
 1,3-Dichlorobenzene
 Concen: 2.604 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion:146 Resp: 7976
 Ion Ratio Lower Upper
 146 100
 111 36.2 27.3 50.7
 148 58.3 45.2 84.0

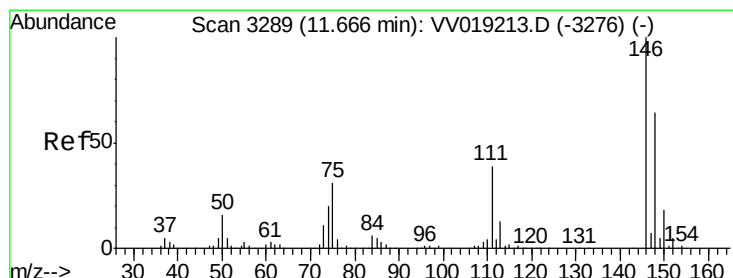
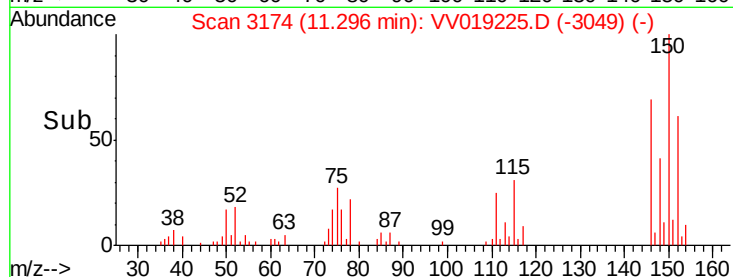
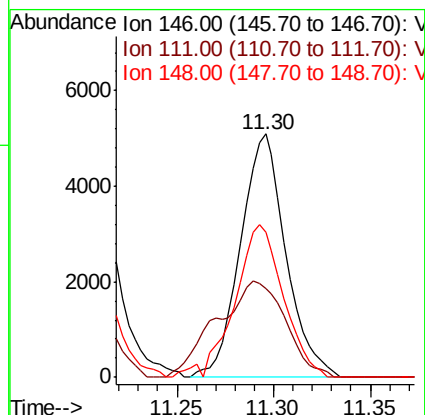
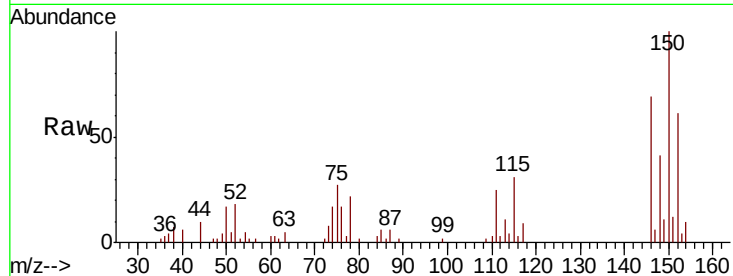




#65
 1,4-Dichlorobenzene
 Concen: 2.626 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

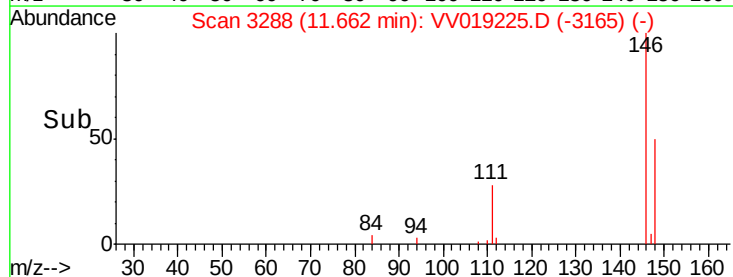
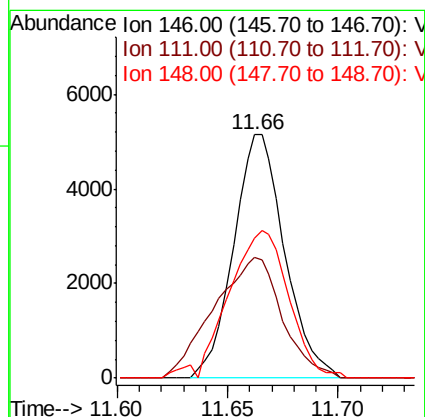
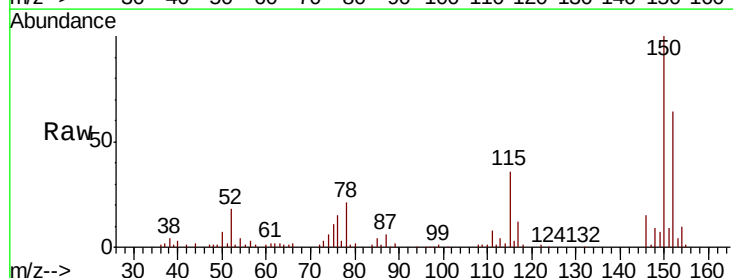
Instrument :
 MSVOA_V
 ClientSampled :
 MDL-WATER-03

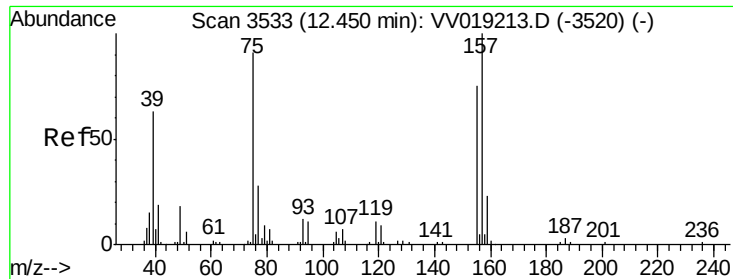
Tot Ion:146 Resp: 8322
 Ion Ratio Lower Upper
 146 100
 111 36.6 25.9 48.1
 148 59.7 44.9 83.5



#67
 1,2-Dichlorobenzene
 Concen: 2.639 ug/L
 RT: 11.66 min Scan# 3288
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion:146 Resp: 8271
 Ion Ratio Lower Upper
 146 100
 111 49.8 32.6 48.8#
 148 57.6 50.1 75.1





#68

1,2-Dibromo-3-chloropropane

Concen: 2.516 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

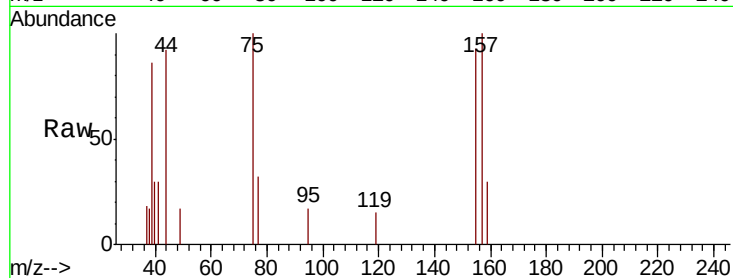
Tot Ion: 75 Resp: 1274

Ion Ratio Lower Upper

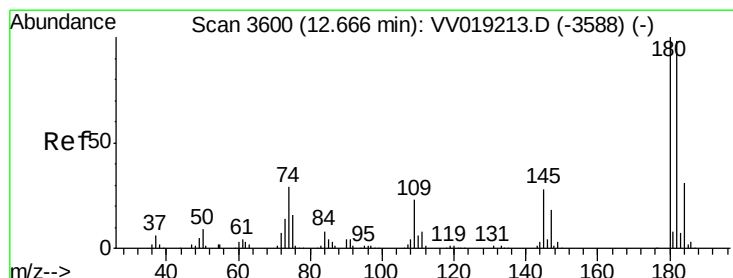
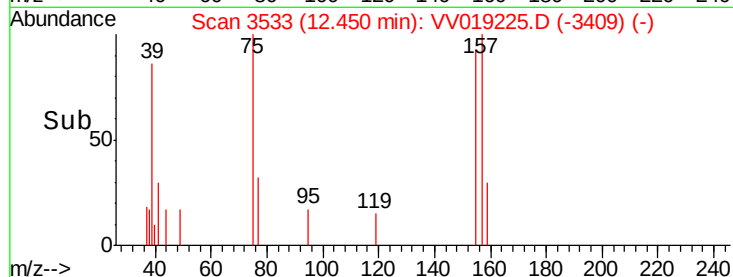
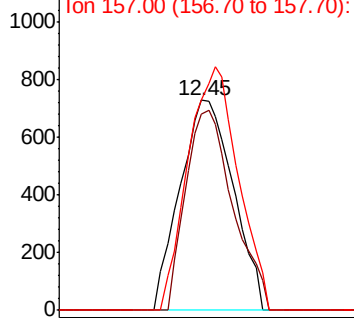
75 100

155 93.2 65.8 98.6

157 100.3 86.3 129.5



Abundance Ion 75.00 (74.70 to 75.70): VV019225.D (-3409) (-)



#69

1,3,5-Trichlorobenzene

Concen: 2.351 ug/L

RT: 12.67 min Scan# 3602

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion: 180 Resp: 5168

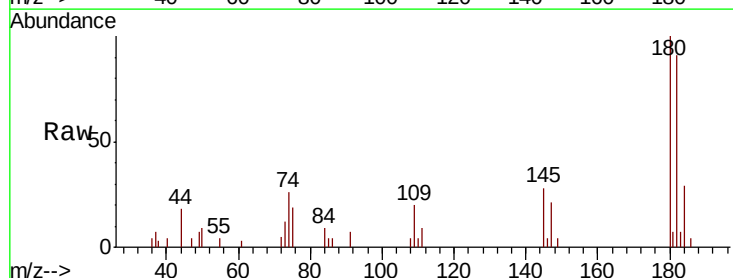
Ion Ratio Lower Upper

180 100

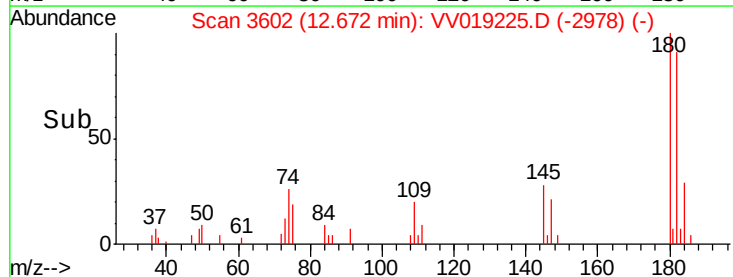
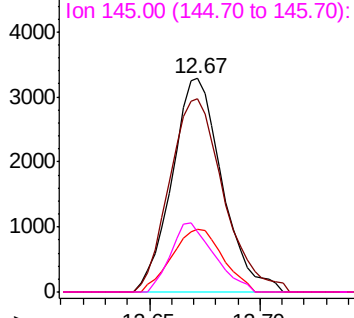
182 97.6 77.7 116.5

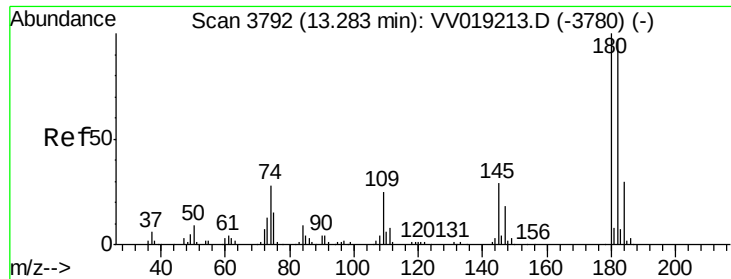
184 29.9 24.9 37.3

145 28.1 23.4 35.0



Abundance Ion 180.00 (179.70 to 180.70): VV019225.D (-2978) (-)

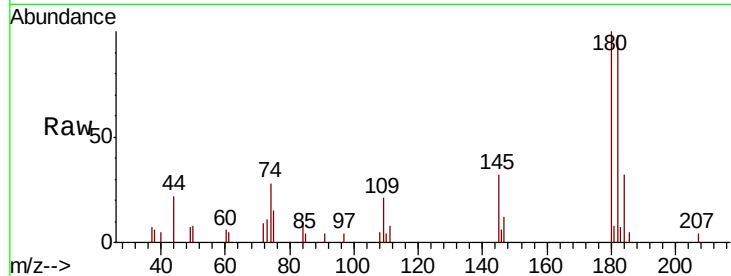




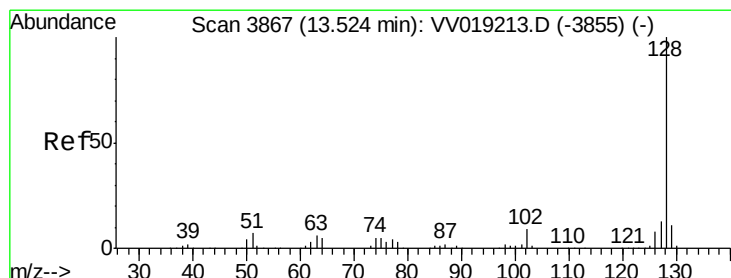
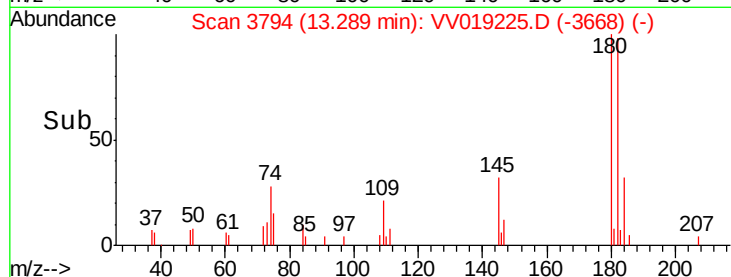
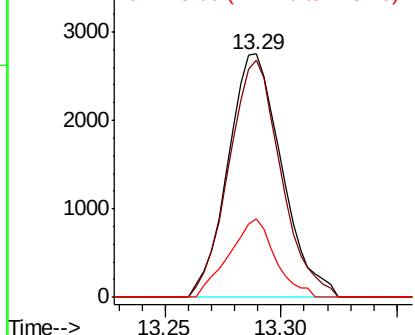
#70
 1,2,4-trichlorobenzene
 Concen: 2.139 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampled :
 MDL-WATER-03

Tot Ion:180 Resp: 4426
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.6 114.8
 145 27.8 23.2 34.8

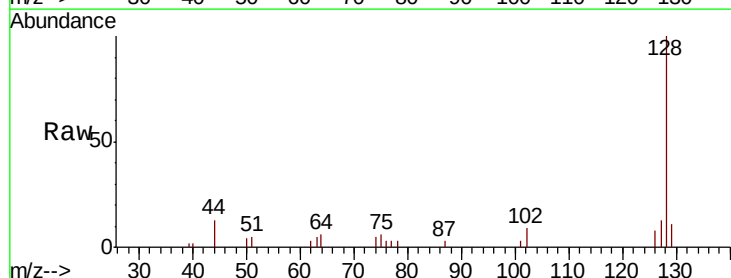


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

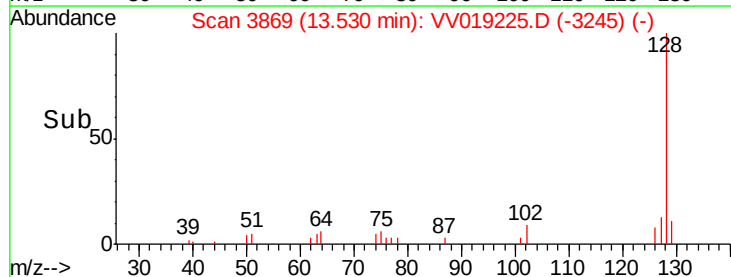
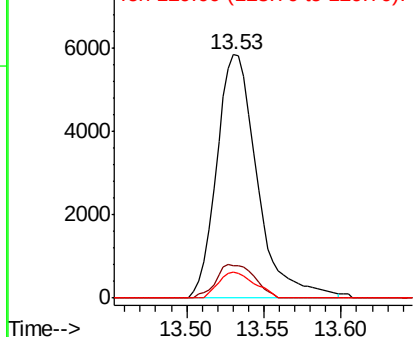


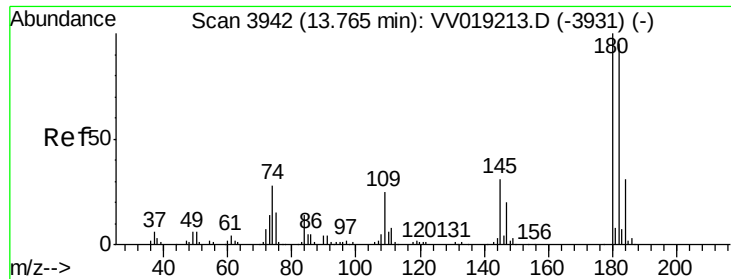
#71
 Naphthalene
 Concen: 1.826 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion:128 Resp: 10654
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.7 16.1
 129 9.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

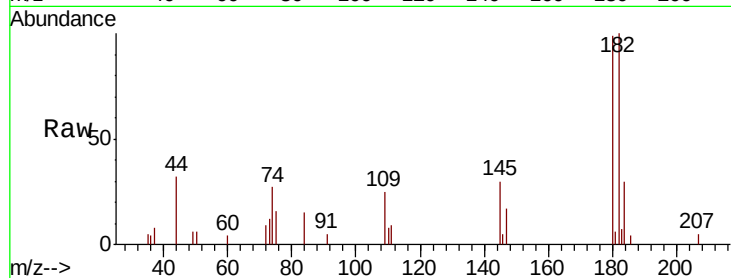




#72
 1,2,3-Trichlorobenzene
 Concen: 2.094 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.6	77.4	116.0
145	31.0	24.7	37.1



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

