

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070220\
 Data File : VX017154.D
 Acq On : 02 Jul 2020 17:26
 Operator : JC/SP
 Sample : L3192-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-610-614

Quant Time: Jul 03 00:53:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

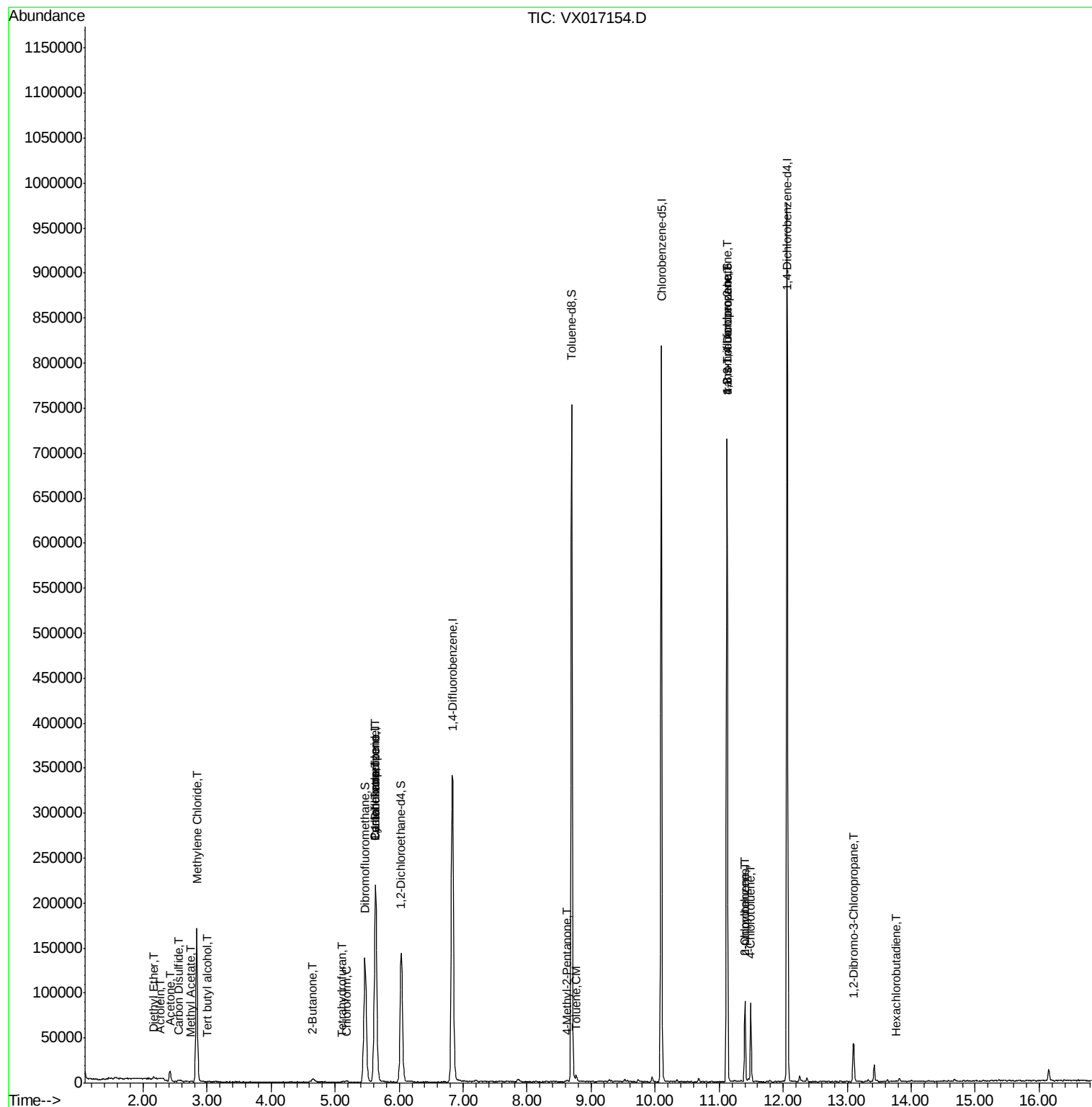
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	210846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	354901	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	372046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	196324	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	138751	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	
35) Dibromofluoromethane	5.47	113	119615	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
50) Toluene-d8	8.70	98	432858	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	
62) 4-Bromofluorobenzene	11.12	95	181510	55.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.86%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.17	74	1190	1.402	ug/l	82
11) Tert butyl alcohol	3.01	59	337	0.680	ug/l #	73
13) Acrolein	2.26	56	260	0.877	ug/l #	70
16) Acetone	2.42	43	12157	12.502	ug/l #	88
17) Carbon Disulfide	2.56	76	1358	0.256	ug/l #	93
18) Methyl Acetate	2.75	43	587	0.231	ug/l #	77
20) Methylene Chloride	2.84	84	76447	34.030	ug/l	96
25) 2-Butanone	4.64	43	1646	1.016	ug/l	98
29) Tetrahydrofuran	5.10	42	322	0.301	ug/l #	61
30) Chloroform	5.18	83	1362	0.327	ug/l	91
31) Cyclohexane	5.64	56	4384	1.249	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15215	4.536	ug/l #	51
38) Carbon Tetrachloride	5.63	117	20895	5.656	ug/l #	17
44) Trichloroethene	7.19	130	453	Below Cal		60
51) 4-Methyl-2-Pentanone	8.62	43	1307	0.388	ug/l #	76
52) Toluene	8.76	92	1965	0.319	ug/l	84
76) 1,2,3-Trichloropropane	11.12	75	90805	23.521	ug/l #	37
78) n-propylbenzene	11.40	91	39638	2.726	ug/l #	51
79) 2-Chlorotoluene	11.40	91	39638	4.504	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	90805	60.911	ug/l #	13
82) 4-Chlorotoluene	11.49	91	37373	3.552	ug/l	90
88) 1,4-Dichlorobenzene	12.01	146	512	Below Cal		89
92) 1,2-Dibromo-3-Chloropropan	13.10	75	910	0.943	ug/l #	1
94) Hexachlorobutadiene	13.77	225	210	0.977	ug/l	83

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

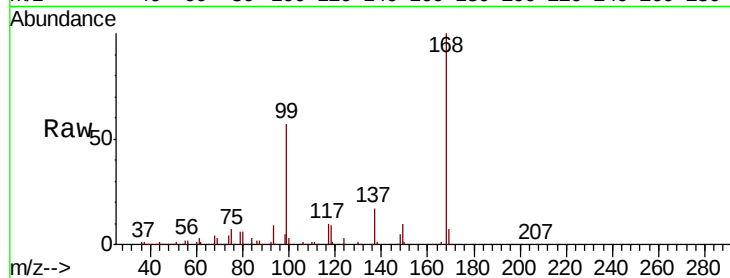
BP-MW180-SOIL-610-614

Tot Ion:168 Resp: 210846

Ion Ratio Lower Upper

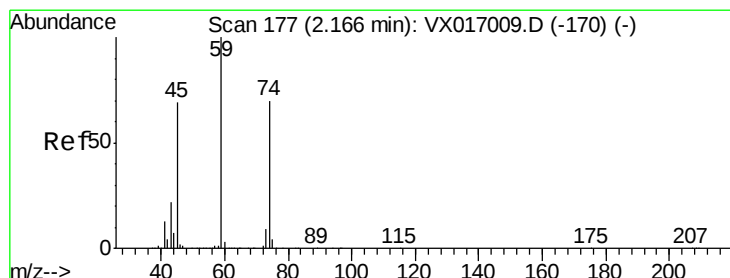
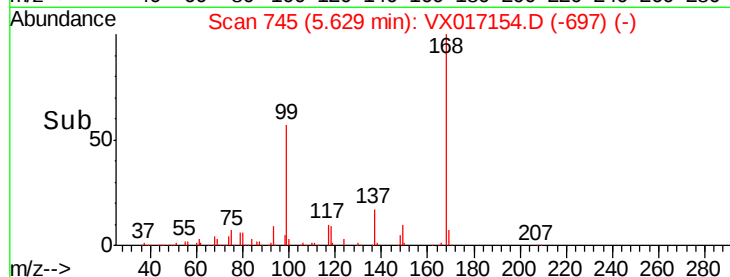
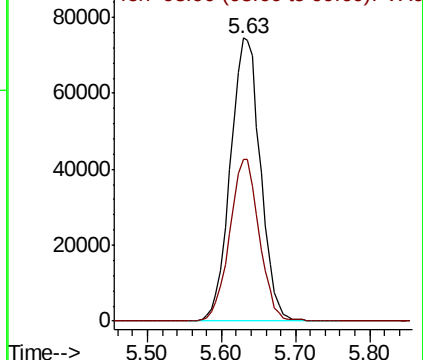
168 100

99 57.1 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.402 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017154.D

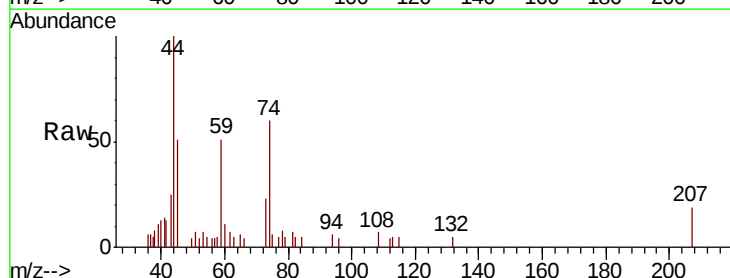
Acq: 02 Jul 2020 17:26

Tgt Ion: 74 Resp: 1190

Ion Ratio Lower Upper

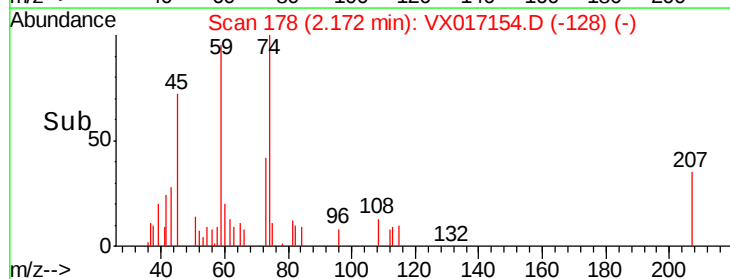
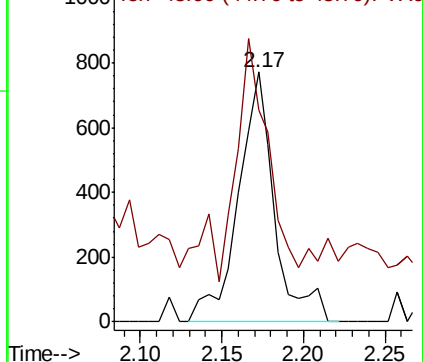
74 100

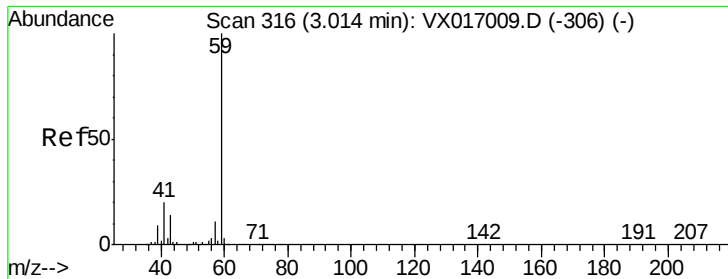
45 82.0 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

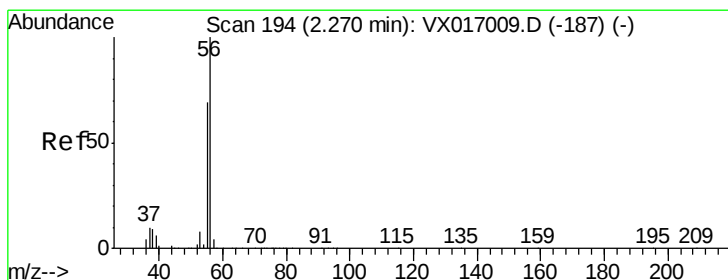
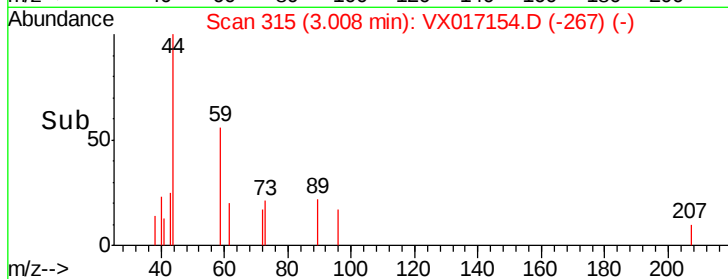
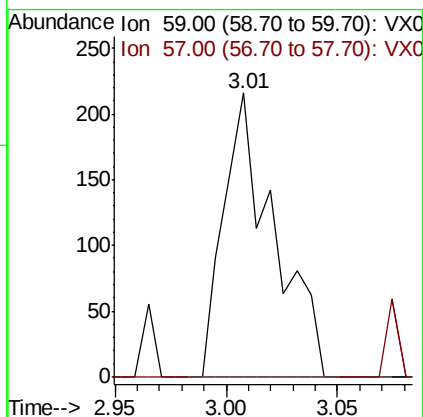
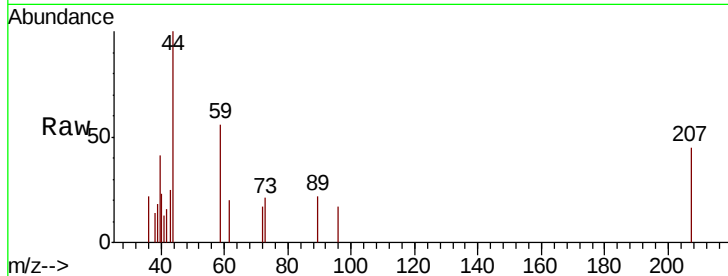




#11
Tert butvl alcohol
Concen: 0.680 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

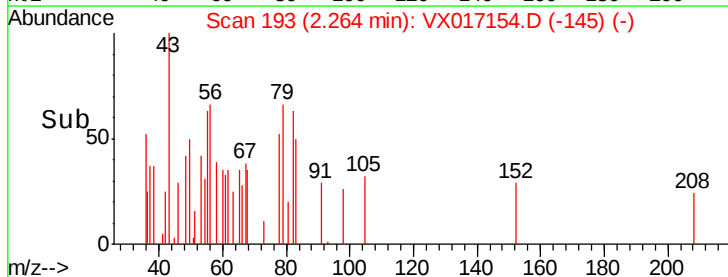
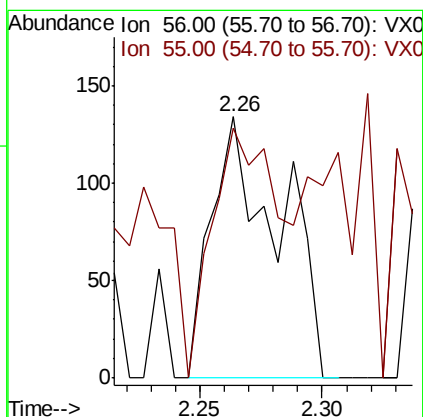
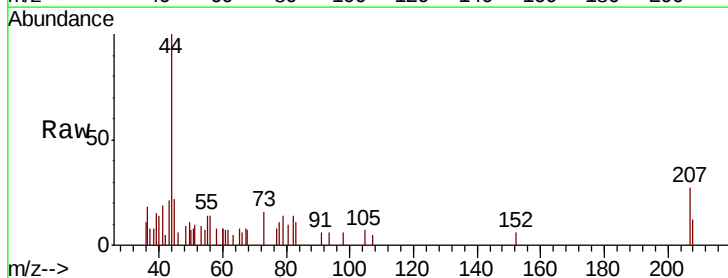
Instrument :
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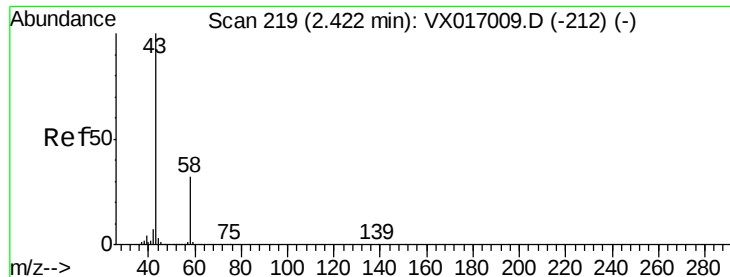
Tot Ion: 59 Resp: 337
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.877 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

Tgt Ion: 56 Resp: 260
Ion Ratio Lower Upper
56 100
55 94.2 55.7 83.5#





#16

Acetone

Concen: 12.502 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

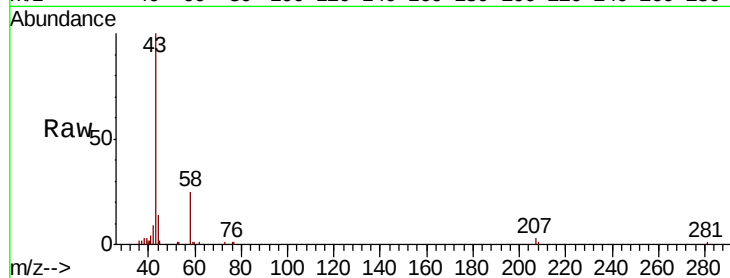
BP-MW180-SOIL-610-614

Tot Ion: 43 Resp: 12157

Ion Ratio Lower Upper

43 100

58 25.4 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8000

6000

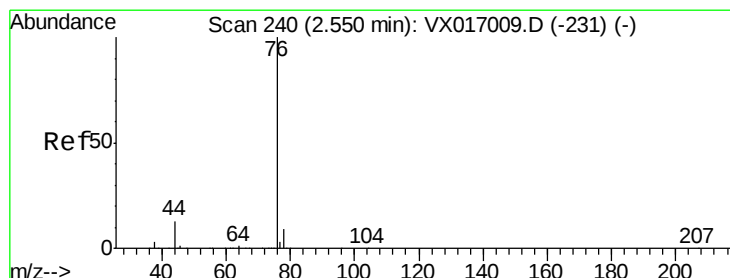
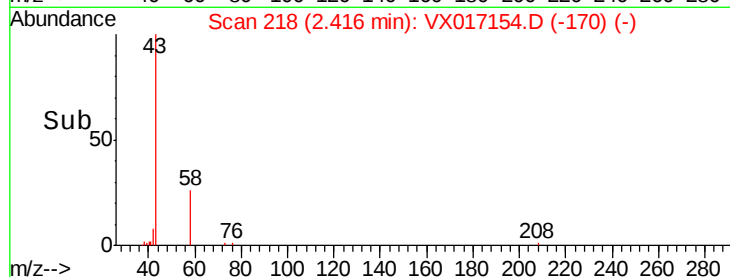
4000

2000

0

2.35 2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.256 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017154.D

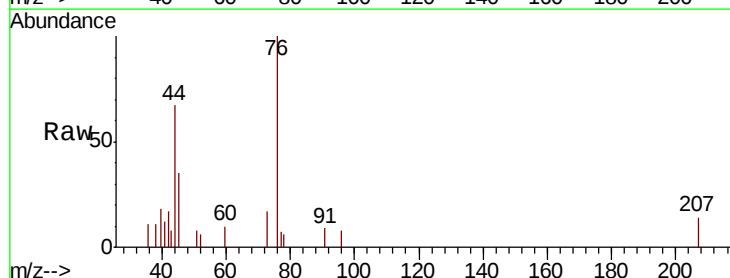
Acq: 02 Jul 2020 17:26

Tgt Ion: 76 Resp: 1358

Ion Ratio Lower Upper

76 100

78 6.5 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1000

800

600

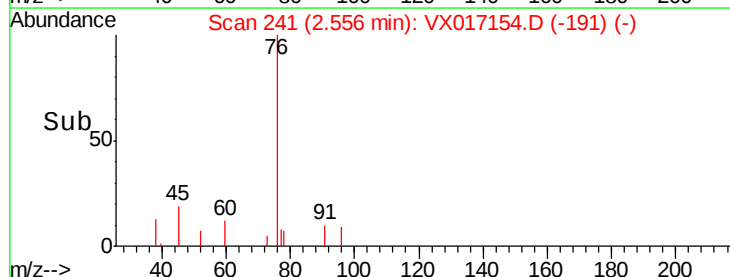
400

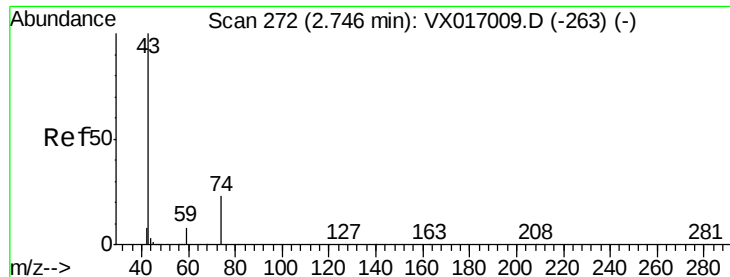
200

0

2.50 2.55 2.60

Time-->

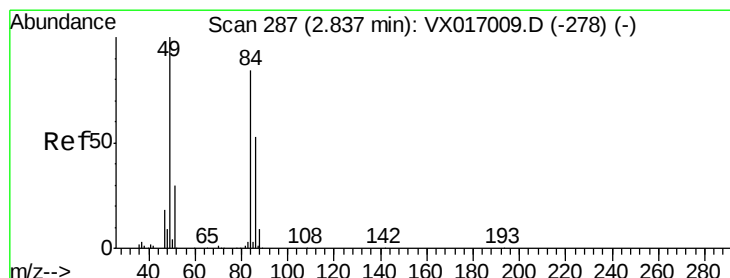
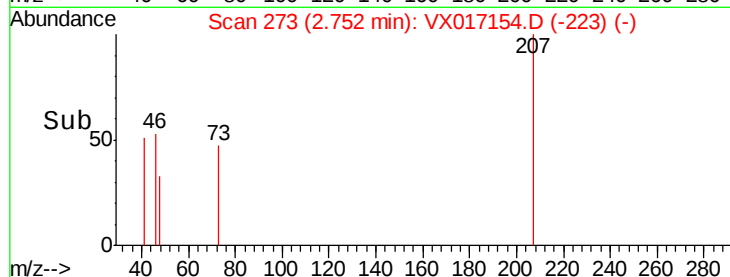
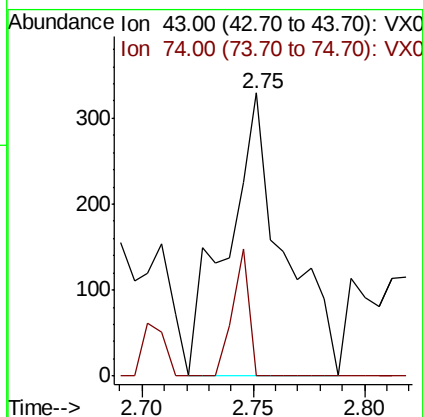
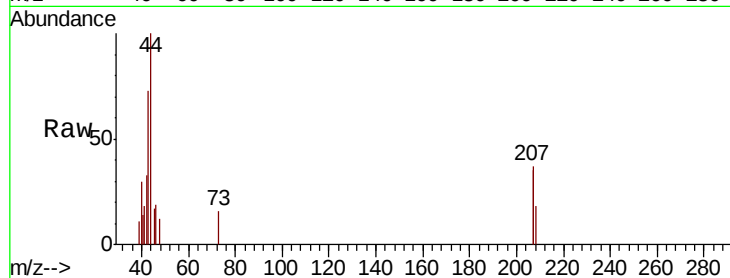




#18
Methyl Acetate
Concen: 0.231 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

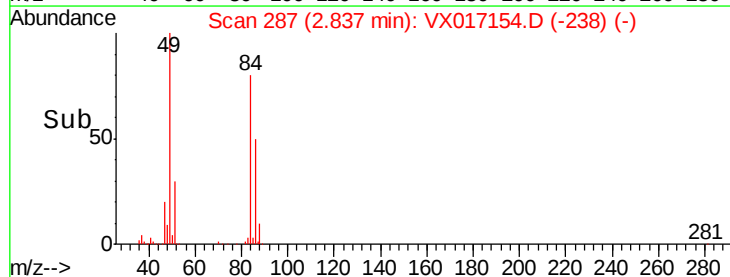
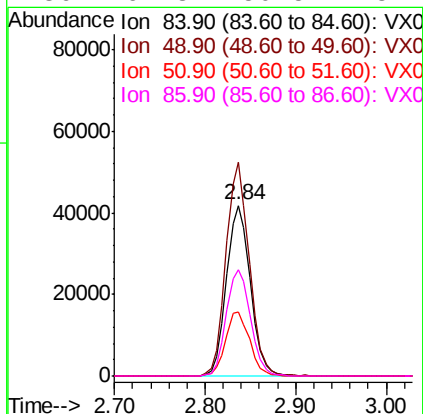
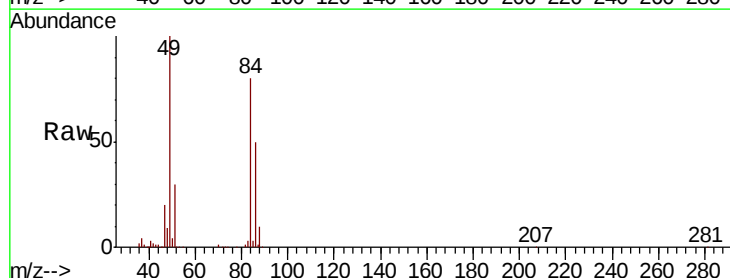
Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-610-614

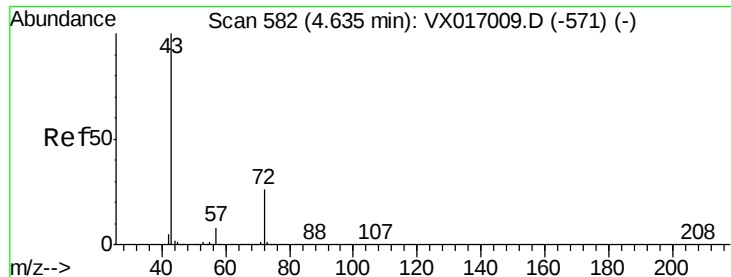
Tot Ion: 43 Resp: 587
Ion Ratio Lower Upper
43 100
74 12.8 19.3 28.9#



#20
Methylene Chloride
Concen: 34.030 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

Tgt Ion: 84 Resp: 76447
Ion Ratio Lower Upper
84 100
49 125.3 94.7 142.1
51 37.5 28.6 42.8
86 62.3 50.5 75.7





#25

2-Butanone

Concen: 1.016 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

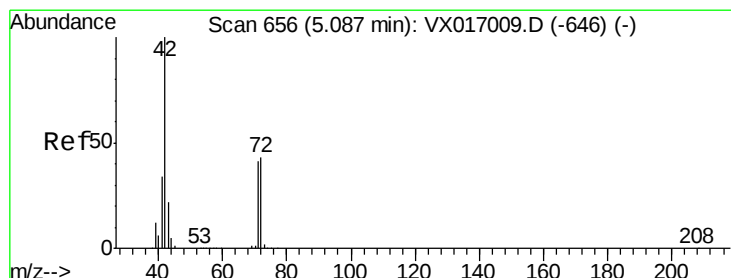
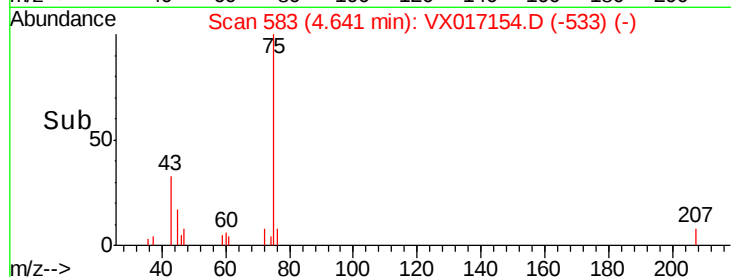
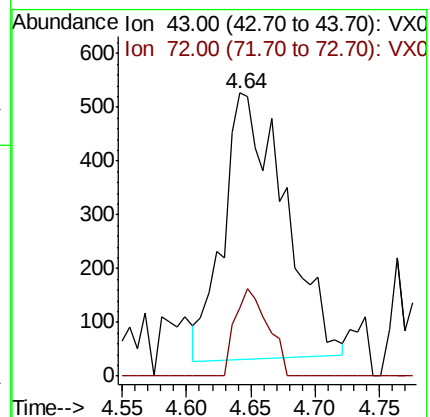
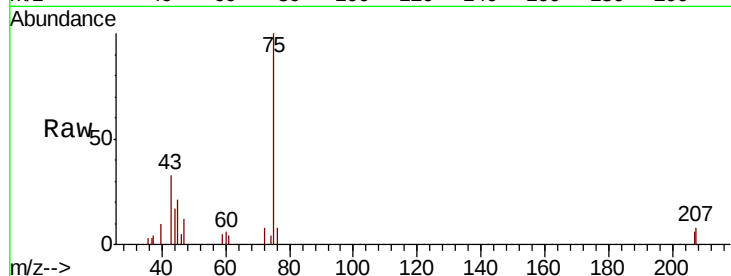
BP-MW180-SOIL-610-614

Tot Ion: 43 Resp: 1646

Ion Ratio Lower Upper

43 100

72 27.2 20.8 31.2



#29

Tetrahydrofuran

Concen: 0.301 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

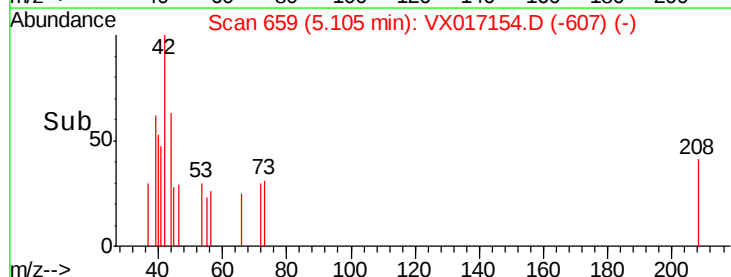
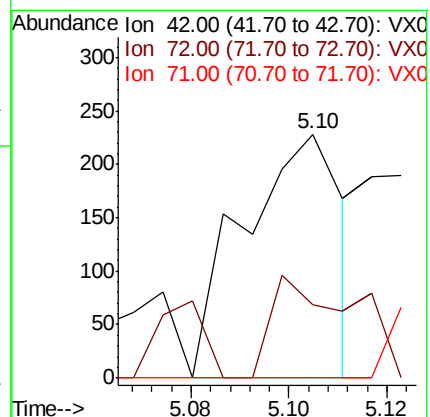
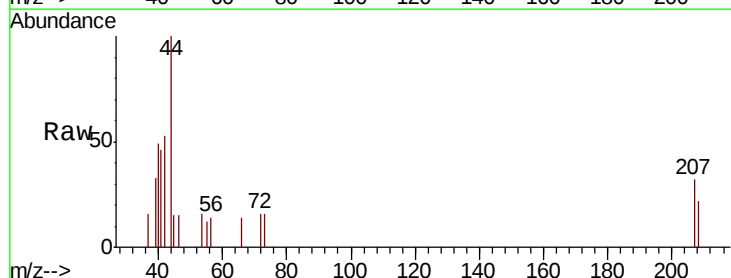
Tgt Ion: 42 Resp: 322

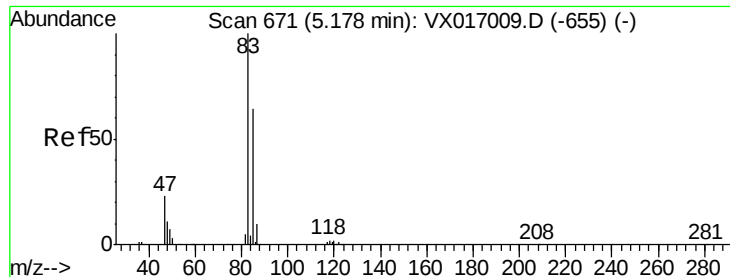
Ion Ratio Lower Upper

42 100

72 34.8 35.3 52.9#

71 0.0 33.1 49.7#

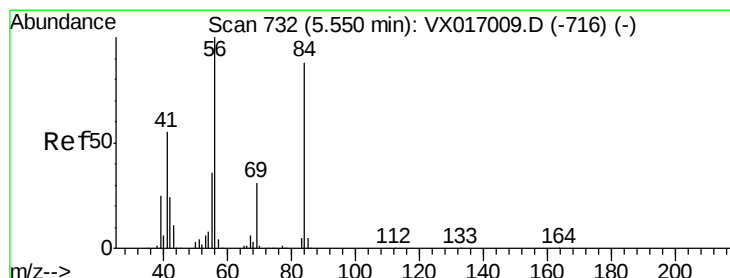
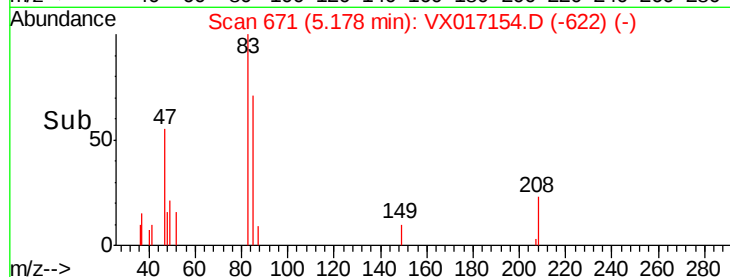
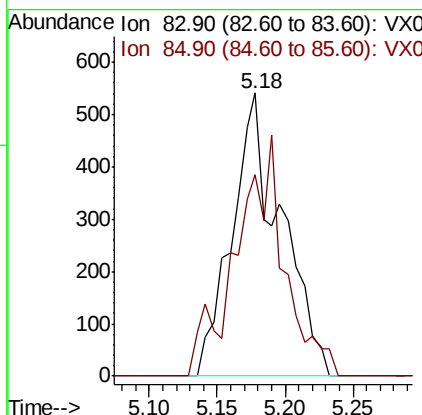
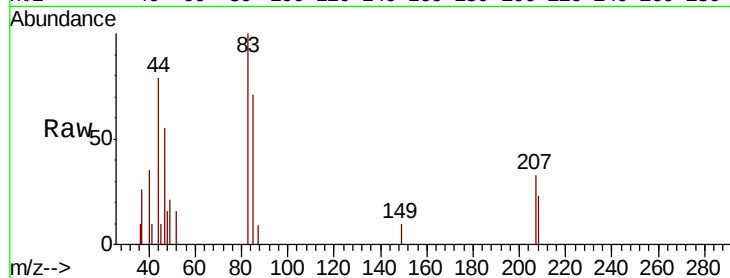




#30
Chloroform
Concen: 0.327 ug/l
RT: 5.18 min Scan# 671
Delta R.T. -0.00 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

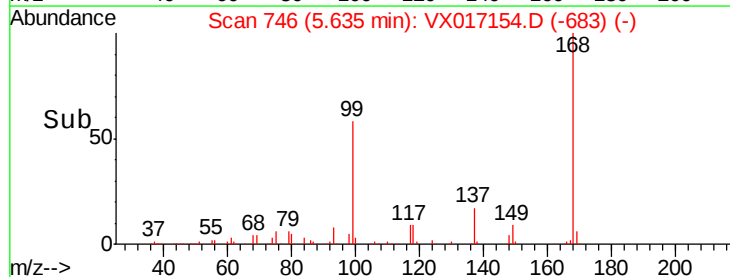
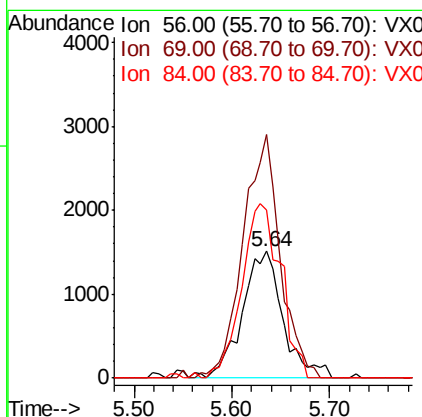
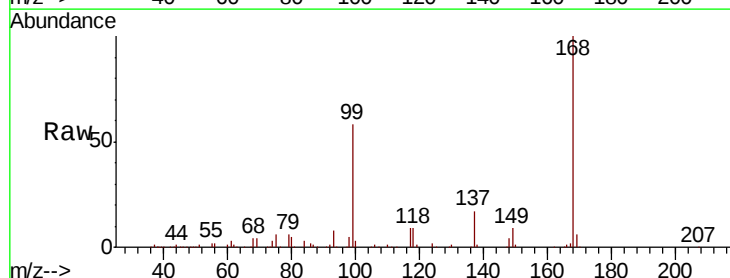
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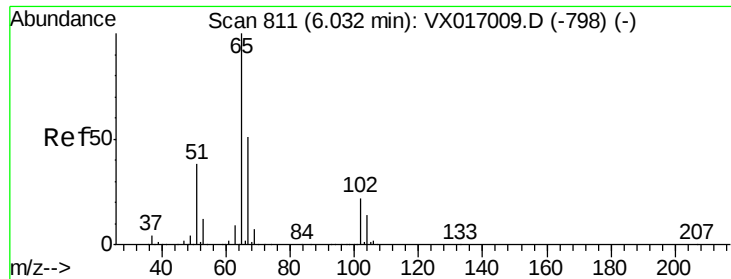
Tot Ion: 83 Resp: 1362
Ion Ratio Lower Upper
83 100
85 71.0 51.4 77.2



#31
Cyclohexane
Concen: 1.249 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

Tgt Ion: 56 Resp: 4384
Ion Ratio Lower Upper
56 100
69 192.3 25.0 37.4#
84 133.1 69.1 103.7#

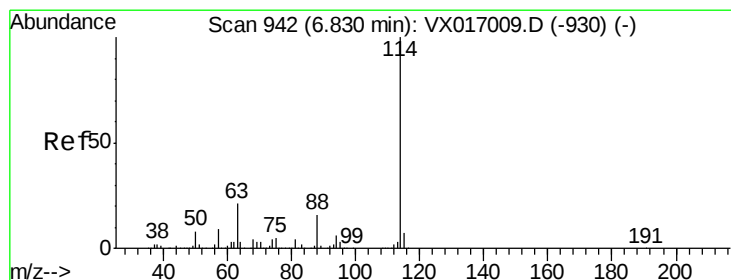
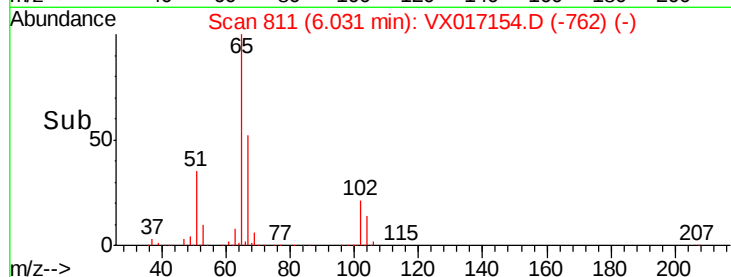
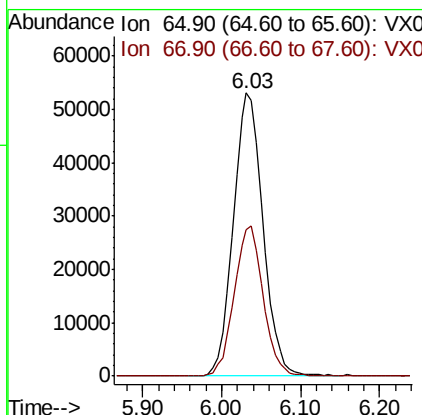
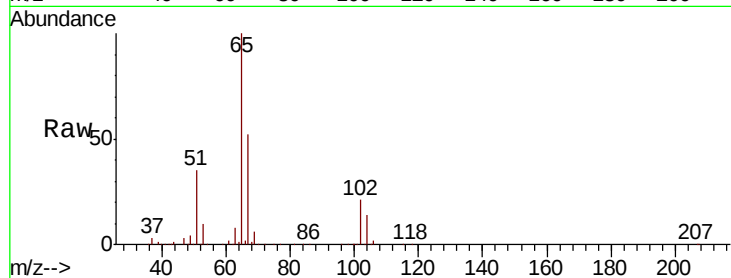




#33
 1,2-Dichloroethane-d4
 Concen: 53.380 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017154.D
 Acq: 02 Jul 2020 17:26

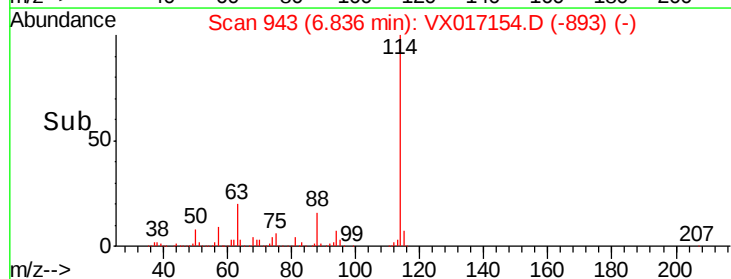
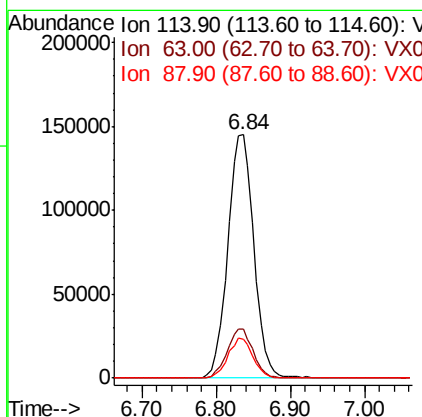
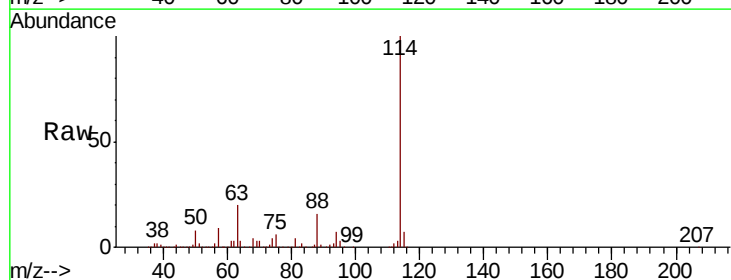
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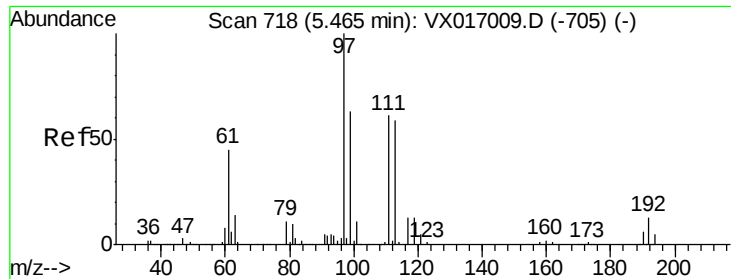
Tot Ion: 65 Resp: 138751
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017154.D
 Acq: 02 Jul 2020 17:26

Tgt Ion: 114 Resp: 354901
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.8 0.0 32.4

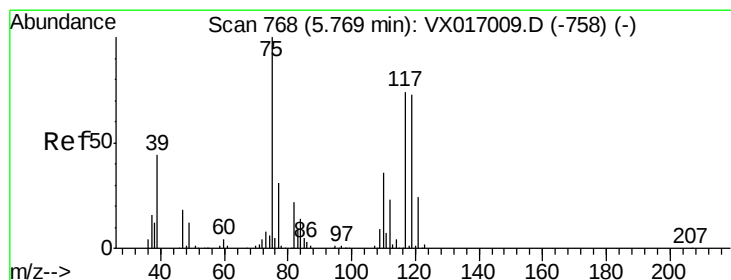
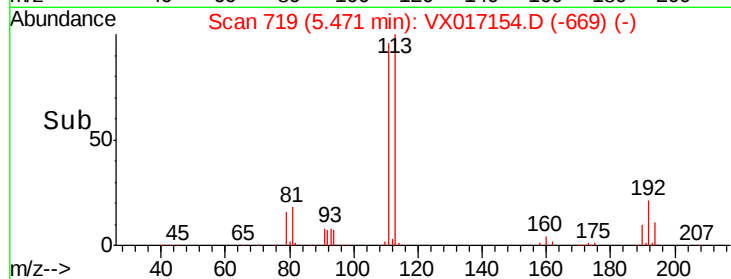
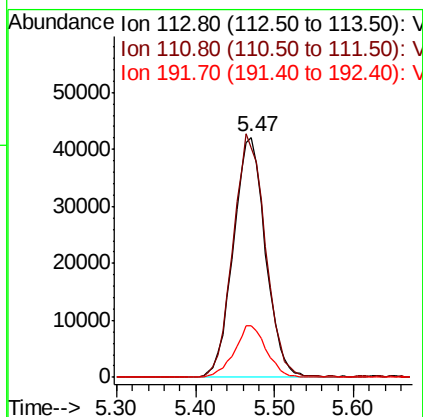
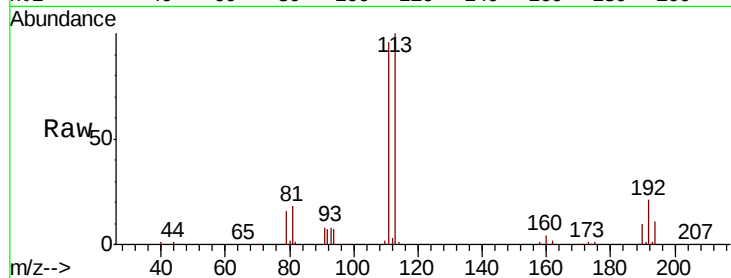




#35
 Dibromofluoromethane
 Concen: 53.281 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017154.D
 Acq: 02 Jul 2020 17:26

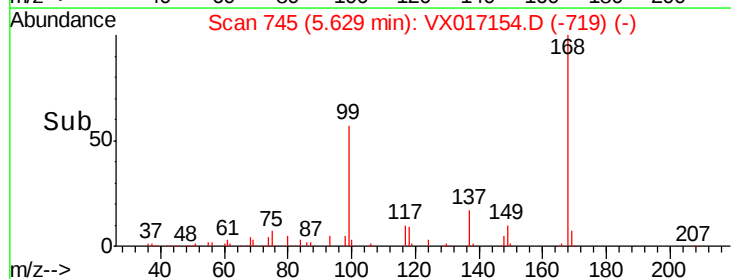
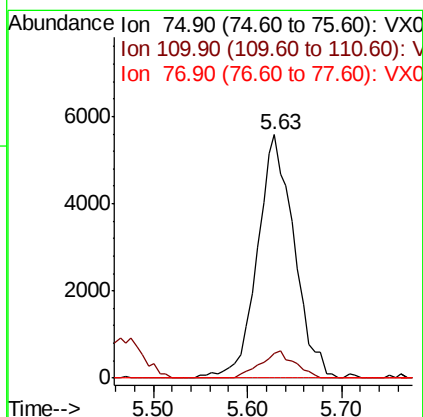
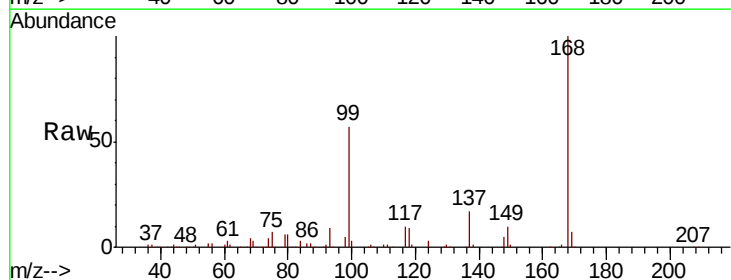
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-610-614

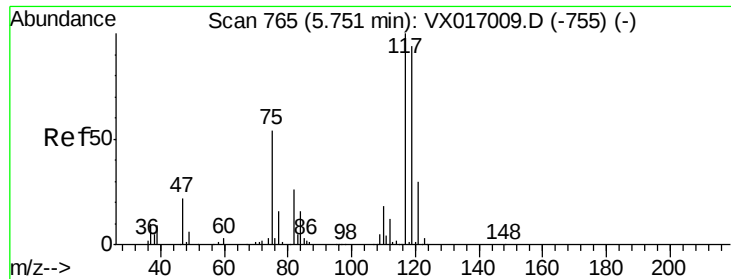
Tot Ion:113 Resp: 119615
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 21.3 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 4.536 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017154.D
 Acq: 02 Jul 2020 17:26

Tgt Ion: 75 Resp: 15215
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.1#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.656 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-610-614

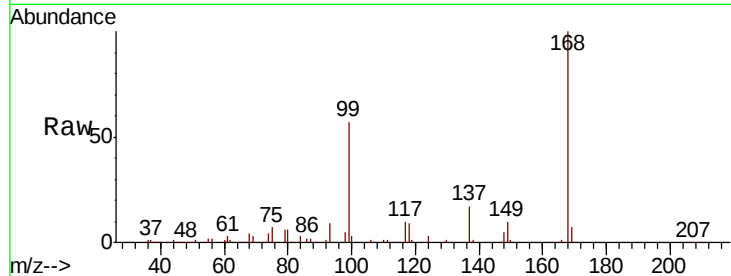
Tot Ion:117 Resp: 20895

Ion Ratio Lower Upper

117 100

119 5.5 75.4 113.0#

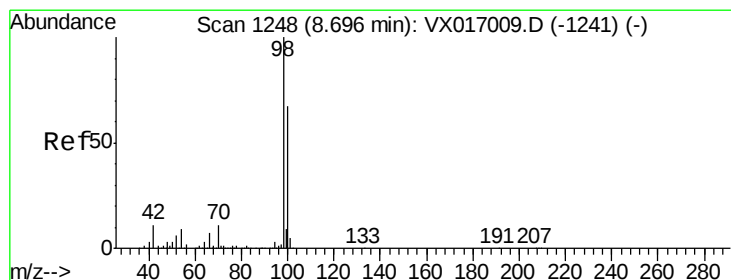
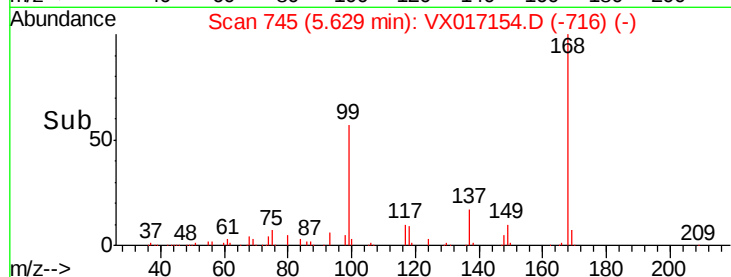
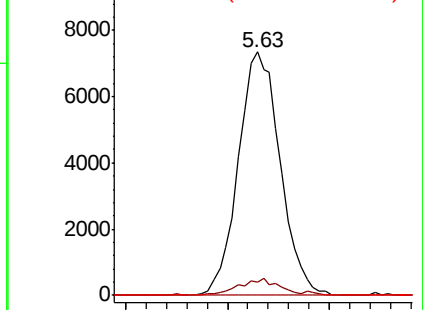
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 52.142 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017154.D

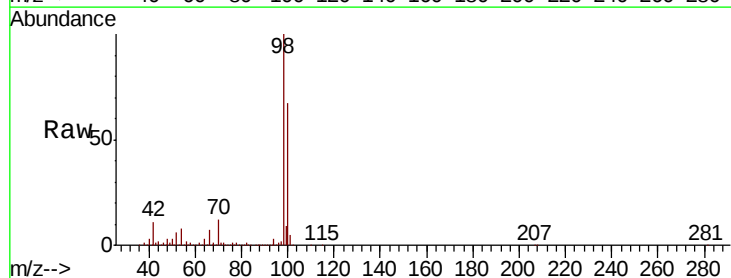
Acq: 02 Jul 2020 17:26

Tgt Ion: 98 Resp: 432858

Ion Ratio Lower Upper

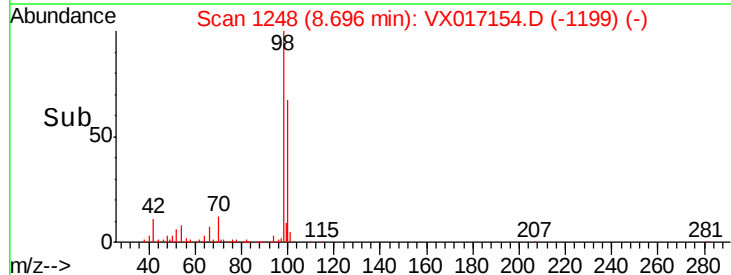
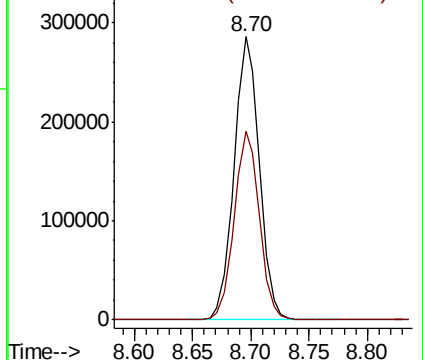
98 100

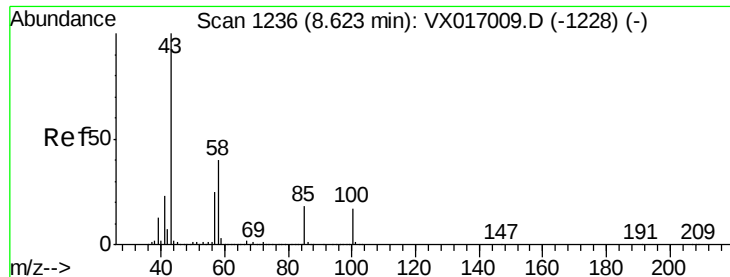
100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.388 ug/l

RT: 8.62 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

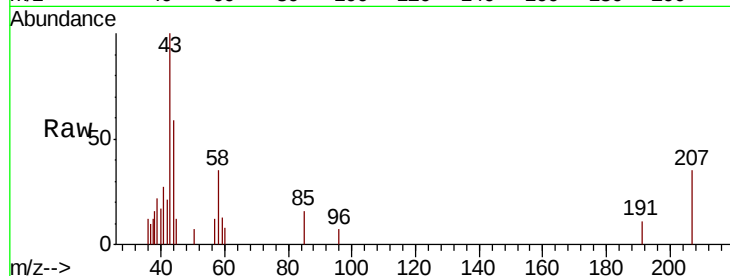
BP-MW180-SOIL-610-614

Tot Ion: 43 Resp: 1307

Ion Ratio Lower Upper

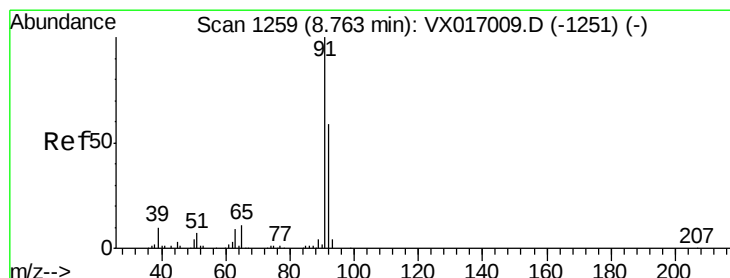
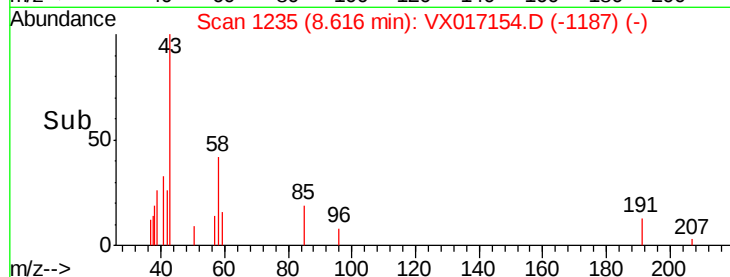
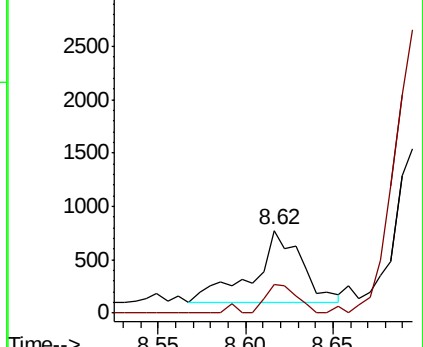
43 100

58 25.3 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 0.319 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX017154.D

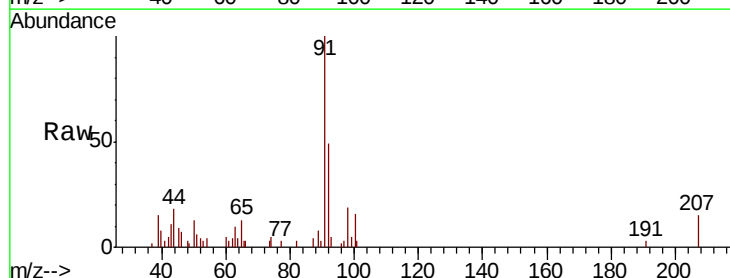
Acq: 02 Jul 2020 17:26

Tgt Ion: 92 Resp: 1965

Ion Ratio Lower Upper

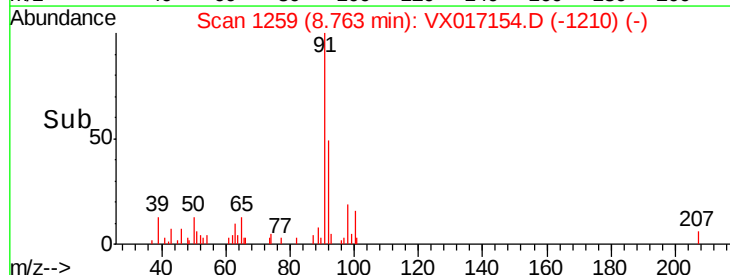
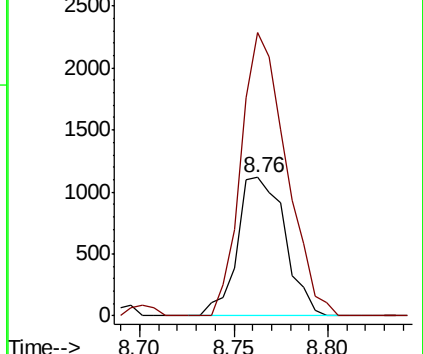
92 100

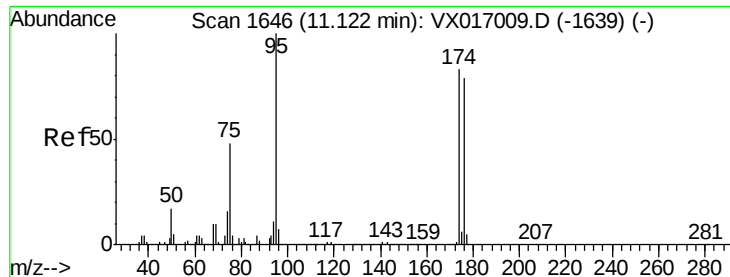
91 192.6 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#62

4-Bromofluorobenzene

Concen: 55.932 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-610-614

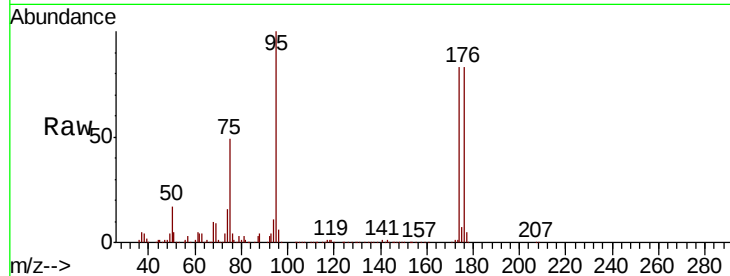
Tot Ion: 95 Resp: 181510

Ion Ratio Lower Upper

95 100

174 84.6 0.0 164.0

176 81.7 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX017154.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX017154.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX017154.D (-1597) (-)

11.12

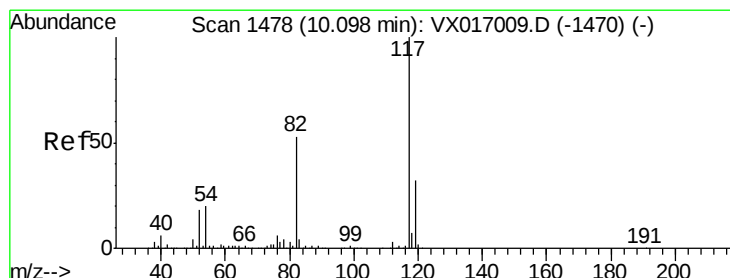
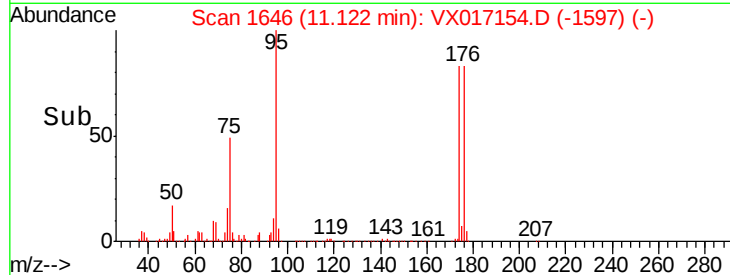
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

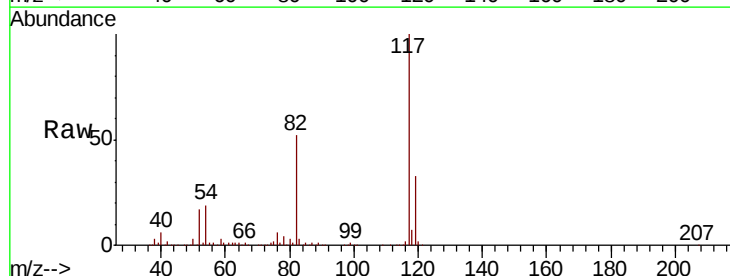
Tgt Ion: 117 Resp: 372046

Ion Ratio Lower Upper

117 100

82 52.2 42.6 63.8

119 32.6 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VX017154.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX017154.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX017154.D (-1429) (-)

10.10

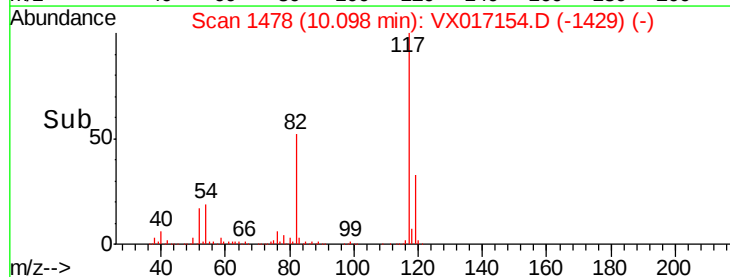
300000

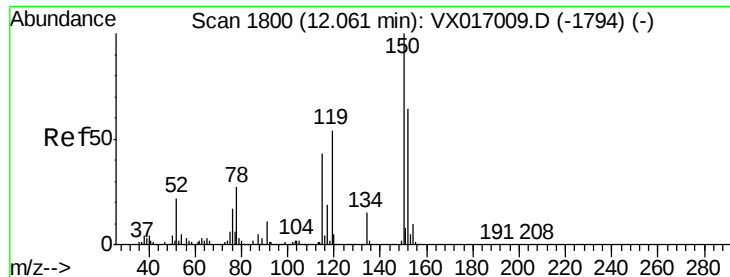
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-610-614

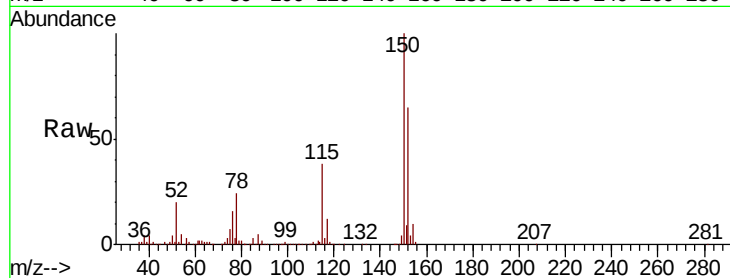
Tot Ion:152 Resp: 196324

Ion Ratio Lower Upper

152 100

115 57.6 40.9 122.7

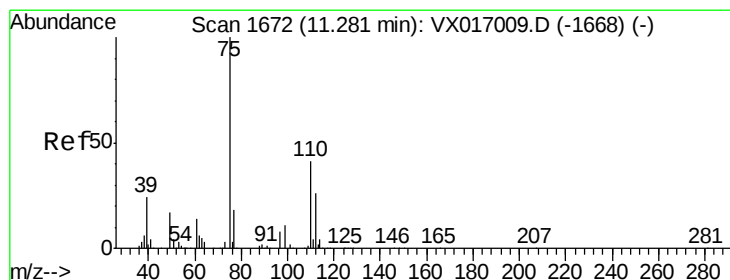
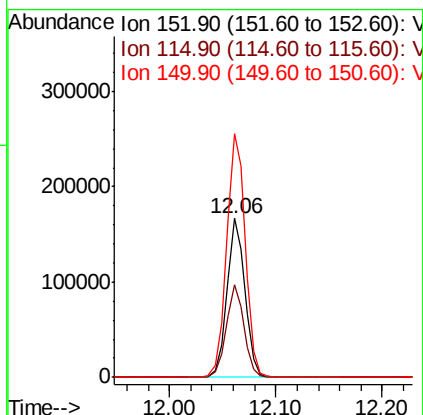
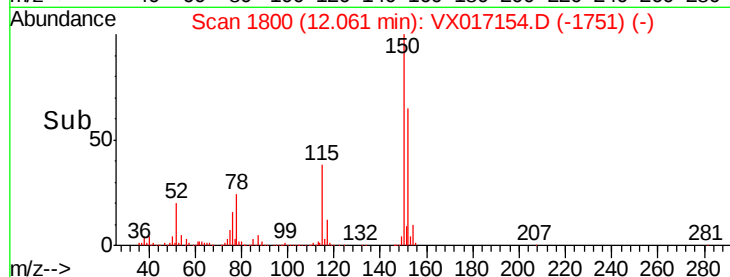
150 158.7 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.521 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017154.D

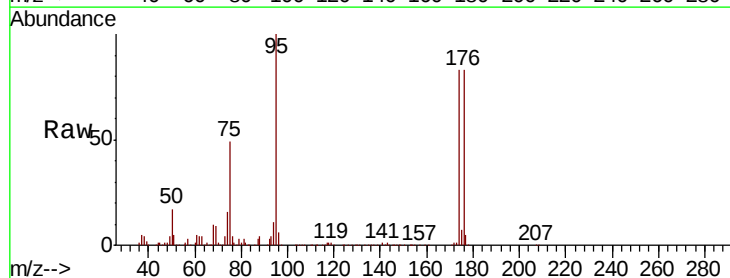
Acq: 02 Jul 2020 17:26

Tgt Ion: 75 Resp: 90805

Ion Ratio Lower Upper

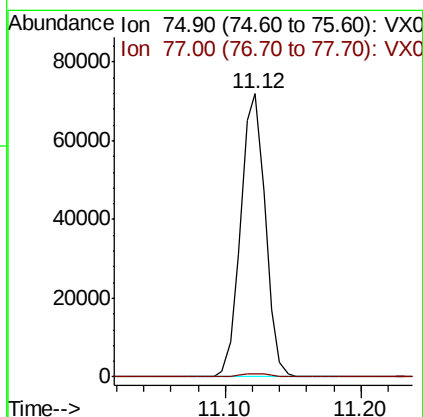
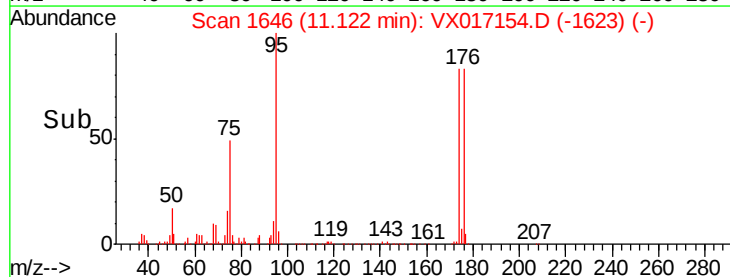
75 100

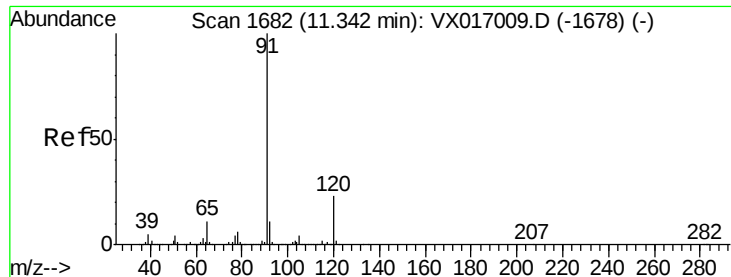
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

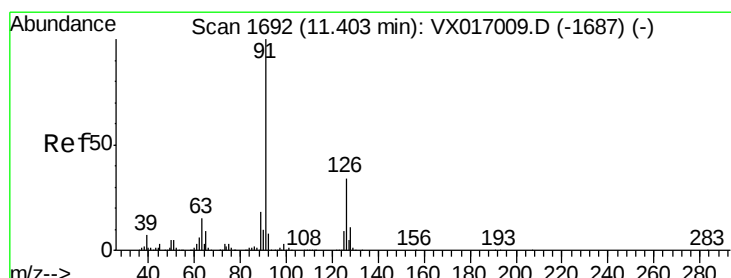
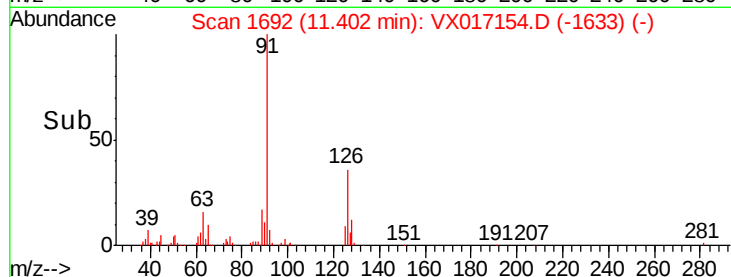
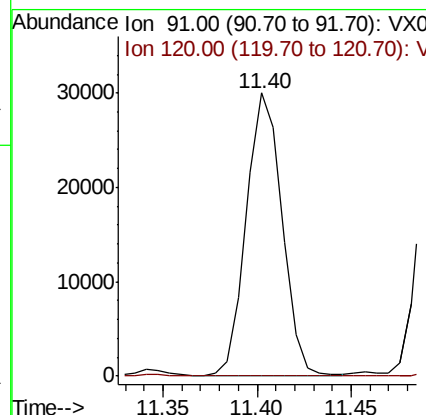
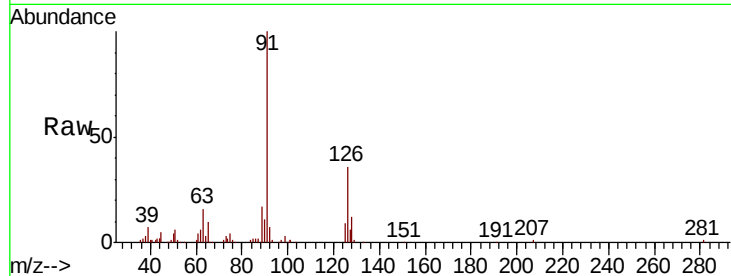




#78
n-propylbenzene
Concen: 2.726 ug/l
RT: 11.40 min Scan# 1692
Delta R.T. 0.06 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

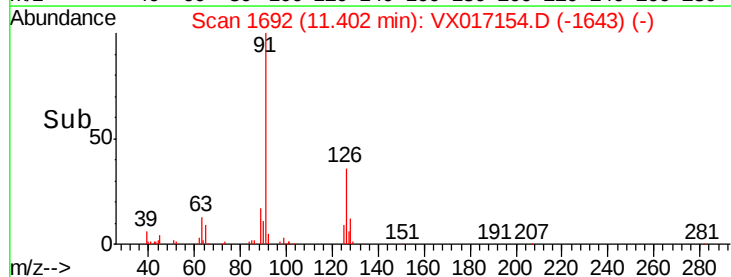
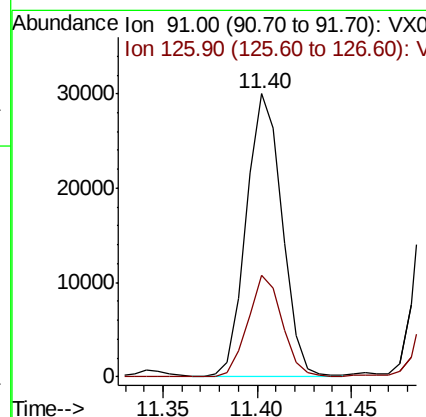
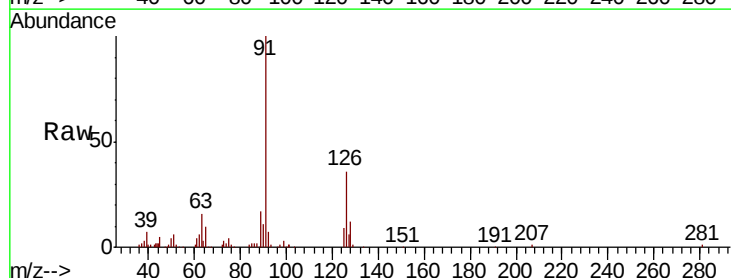
Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-610-614

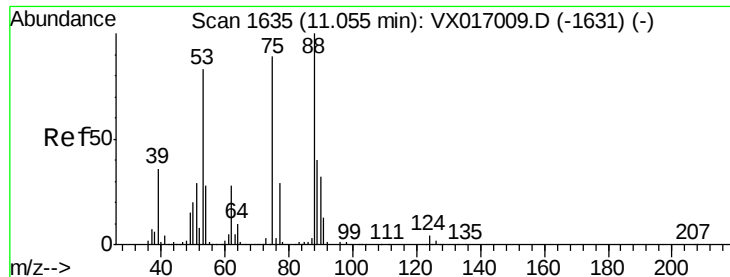
Tot Ion: 91 Resp: 39638
Ion Ratio Lower Upper
91 100
120 0.0 11.9 35.9#



#79
2-Chlorotoluene
Concen: 4.504 ug/l
RT: 11.40 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VX017154.D
Acq: 02 Jul 2020 17:26

Tgt Ion: 91 Resp: 39638
Ion Ratio Lower Upper
91 100
126 34.2 17.4 52.3





#81

trans-1,4-Dichloro-2-butene

Concen: 60.911 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-610-614

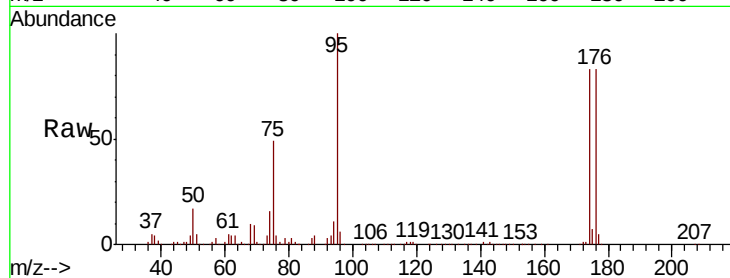
Tot Ion: 75 Resp: 90805

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

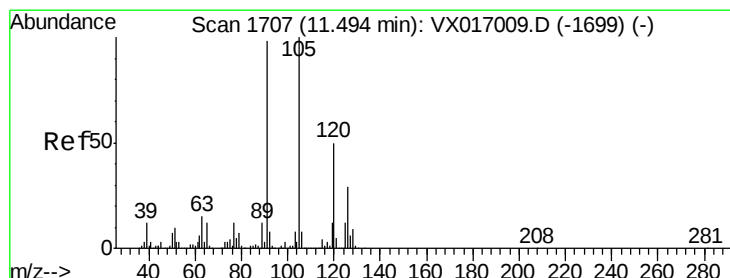
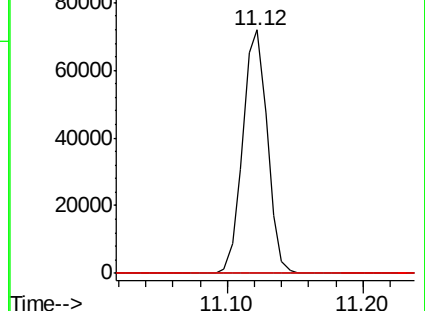
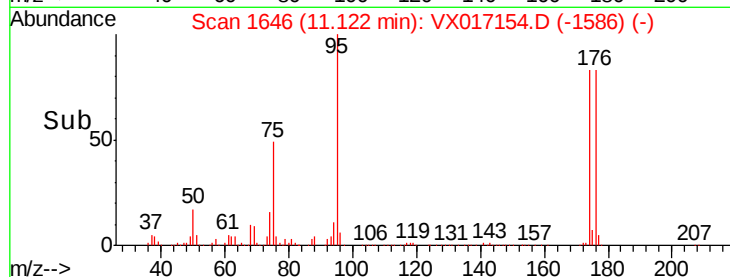
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 3.552 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX017154.D

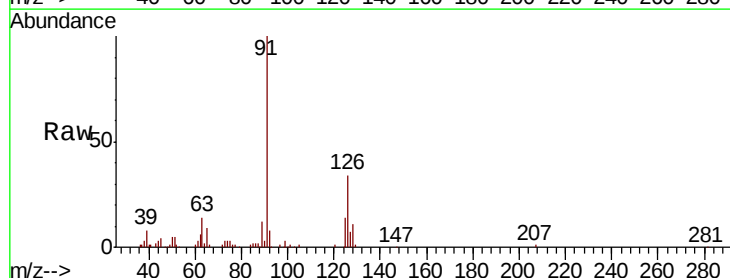
Acq: 02 Jul 2020 17:26

Tgt Ion: 91 Resp: 37373

Ion Ratio Lower Upper

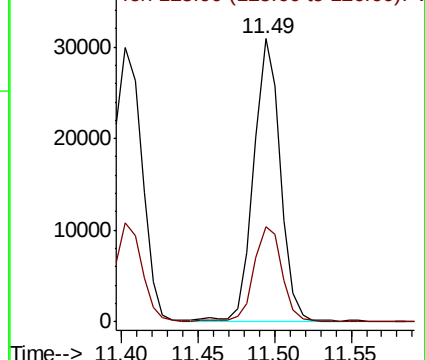
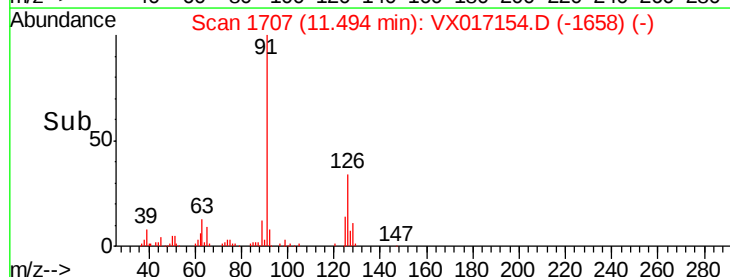
91 100

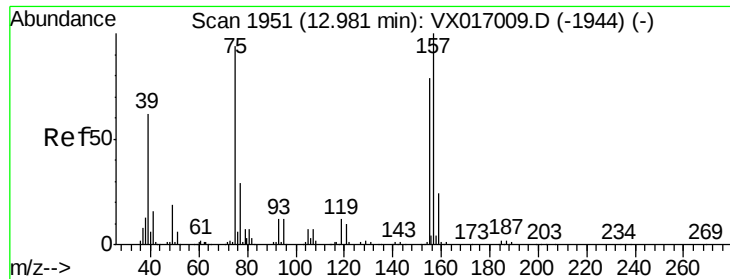
126 35.9 15.2 45.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.943 ug/l

RT: 13.10 min Scan# 1970

Delta R.T. 0.12 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-610-614

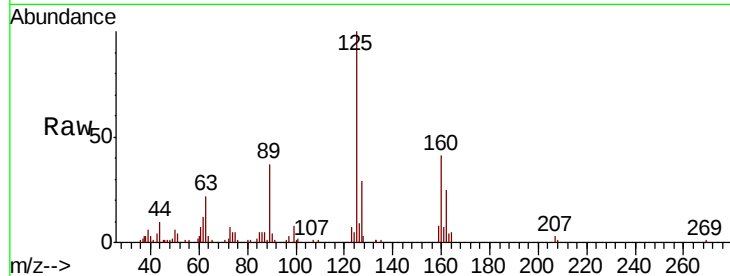
Tot Ion: 75 Resp: 910

Ion Ratio Lower Upper

75 100

155 0.0 45.1 135.2#

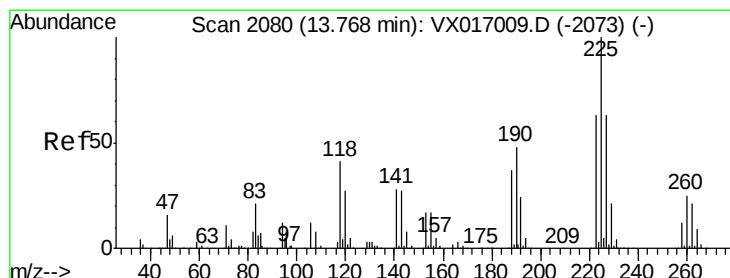
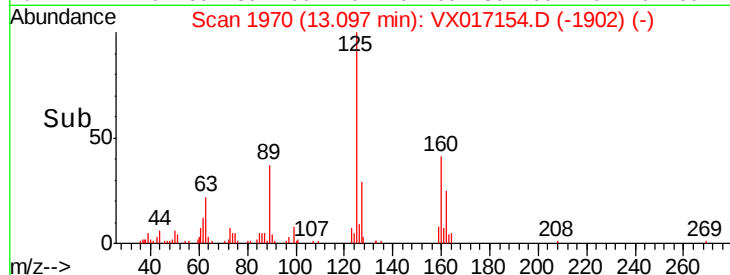
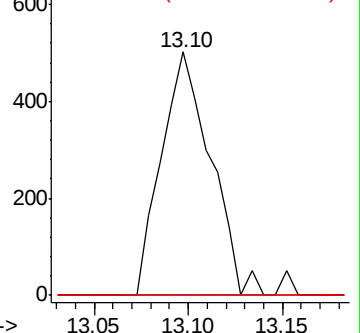
157 0.0 56.5 169.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#94

Hexachlorobutadiene

Concen: 0.977 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017154.D

Acq: 02 Jul 2020 17:26

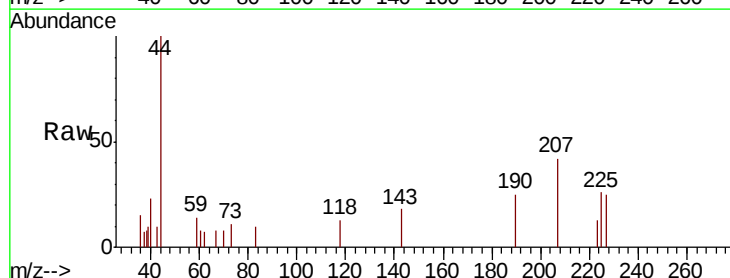
Tgt Ion: 225 Resp: 210

Ion Ratio Lower Upper

225 100

223 45.2 32.5 97.5

227 58.6 33.1 99.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

