

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055918.D
 Acq On : 31 May 2019 14:43
 Operator : JC/SP
 Sample : K3134-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: May 31 18:06:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

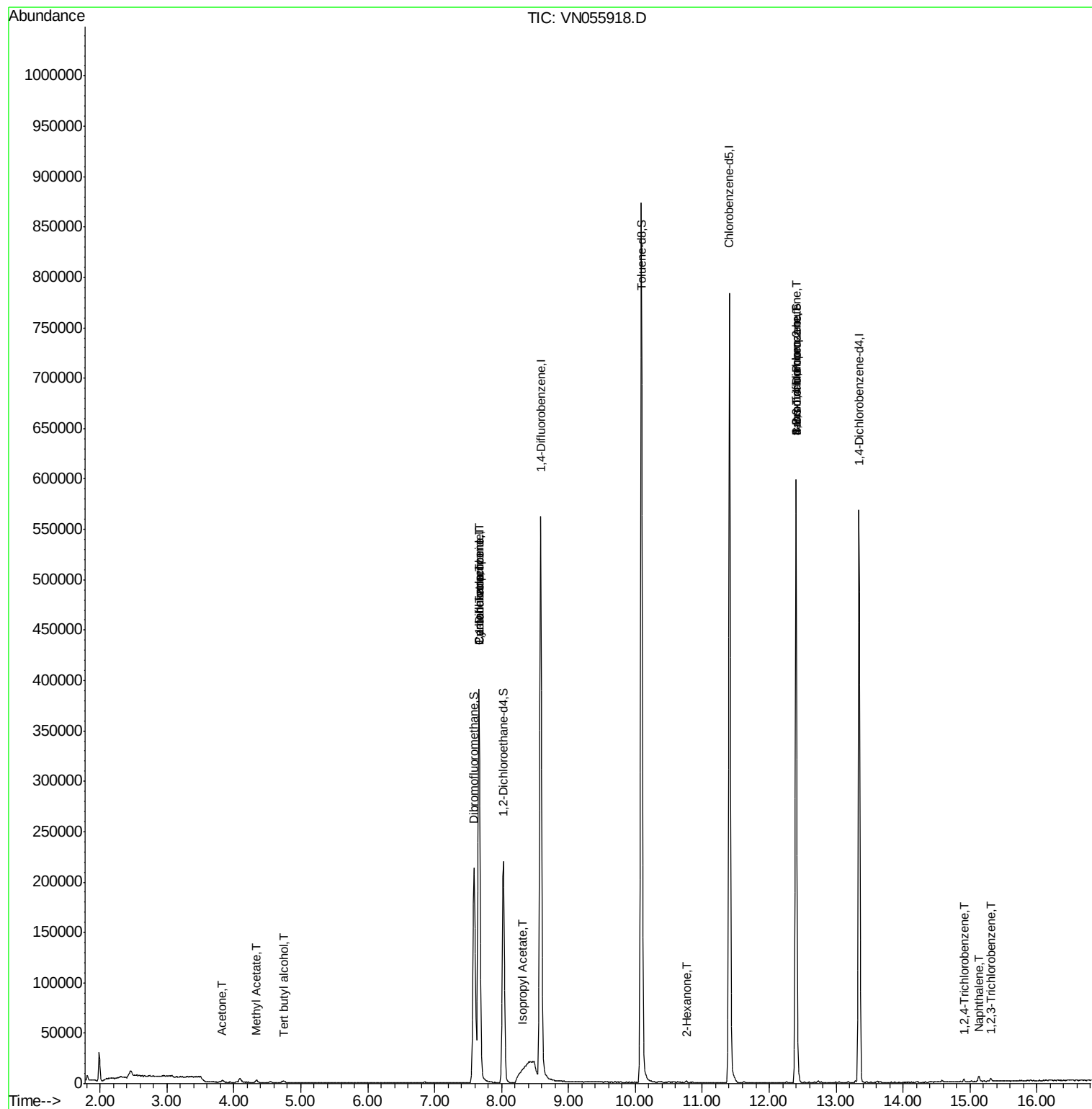
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	365127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	555140	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	503850	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	168838	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	184417	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.59	113	162921	46.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.84%	
50) Toluene-d8	10.09	98	659809	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
62) 4-Bromofluorobenzene	12.40	95	209032	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	716	0.994	ug/l #	74
16) Acetone	3.83	43	3897	2.351	ug/l	93
18) Methyl Acetate	4.33	43	5040	0.238	ug/l #	73
31) Cyclohexane	7.66	56	5730	1.012	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22558	4.663	ug/l #	47
38) Carbon Tetrachloride	7.66	117	30999	6.152	ug/l #	14
43) Isopropyl Acetate	8.31	43	18924	2.409	ug/l #	53
59) 2-Hexanone	10.76	43	1247	0.379	ug/l	73
71) Bromoform	12.40	173	1403	0.409	ug/l #	1
73) Isopropylbenzene	12.25	105	771	Below Cal	#	48
74) N-amyl acetate	12.07	43	720	Below Cal	#	49
76) 1,2,3-Trichloropropane	12.40	75	96776	32.165	ug/l #	100
79) 2-Chlorotoluene	12.67	91	509	Below Cal		87
80) 1,3,5-Trimethylbenzene	12.73	105	760	Below Cal		95
81) trans-1,4-Dichloro-2-buten	12.40	75	96776	77.121	ug/l #	15
83) tert-Butylbenzene	12.99	119	579	Below Cal	#	76
84) 1,2,4-Trimethylbenzene	13.04	105	845	Below Cal		76
85) sec-Butylbenzene	13.17	105	889	Below Cal		79
93) 1,2,4-Trichlorobenzene	14.91	180	1075	3.941	ug/l	92
94) Hexachlorobutadiene	15.02	225	292	Below Cal	#	50
95) Naphthalene	15.13	128	5637	0.722	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	1458	0.485	ug/l	93

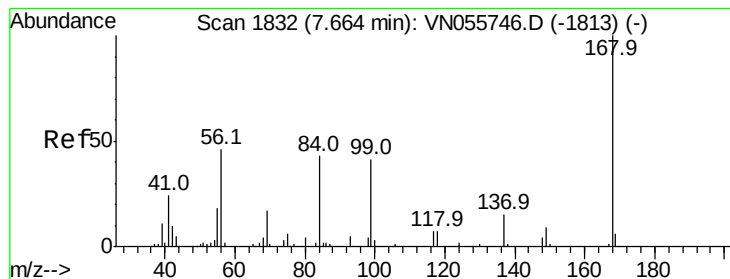
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

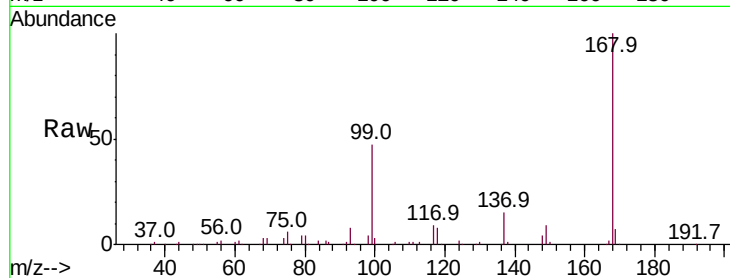
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 365127

Ion Ratio Lower Upper

168 100

99 47.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

150000

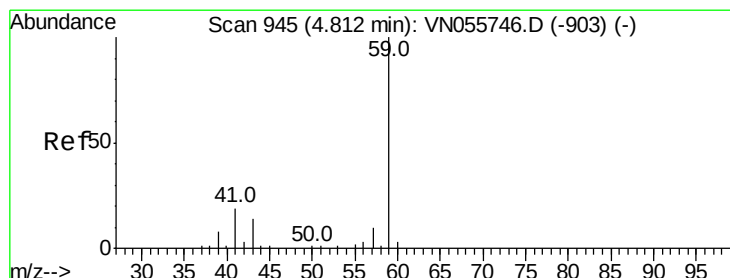
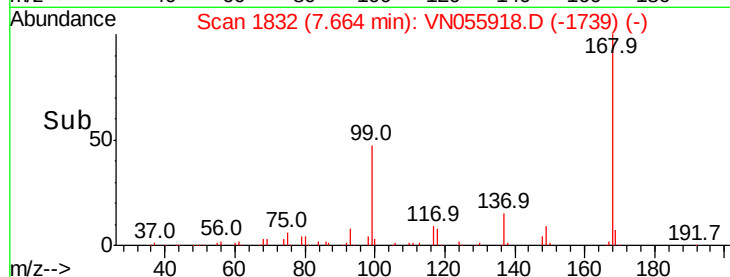
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.994 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.08 min

Lab File: VN055918.D

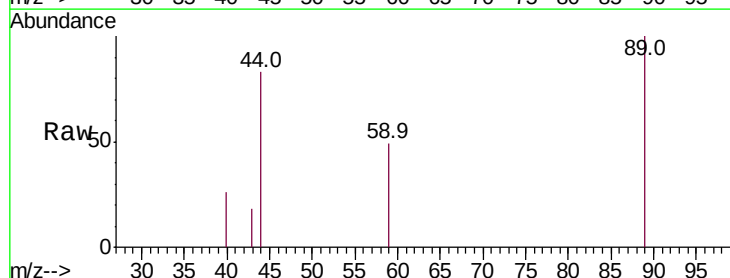
Acq: 31 May 2019 14:43

Tgt Ion: 59 Resp: 716

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.73

600

500

400

300

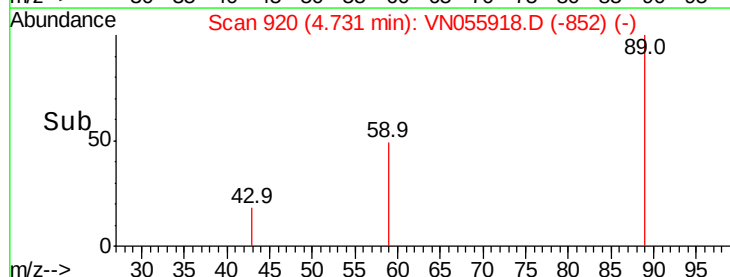
200

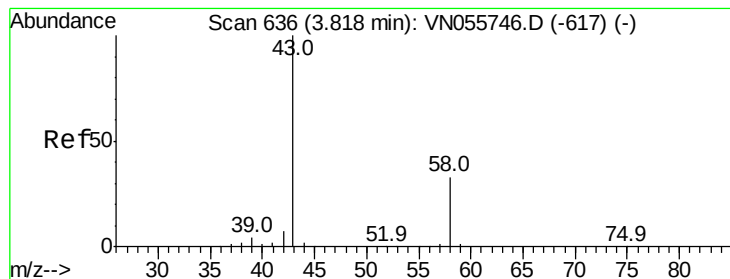
100

0

4.70 4.72 4.74

Time-->





#16

Acetone

Concen: 2.351 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

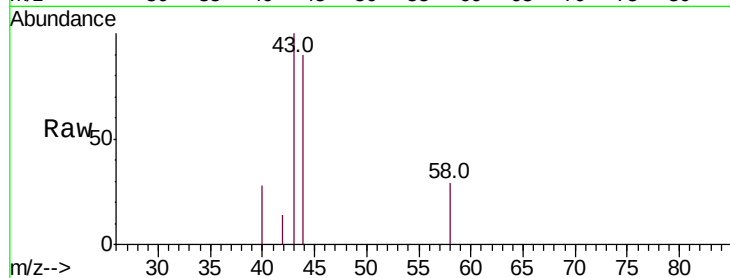
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 3897

Ion Ratio Lower Upper

43 100

58 29.5 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

1000

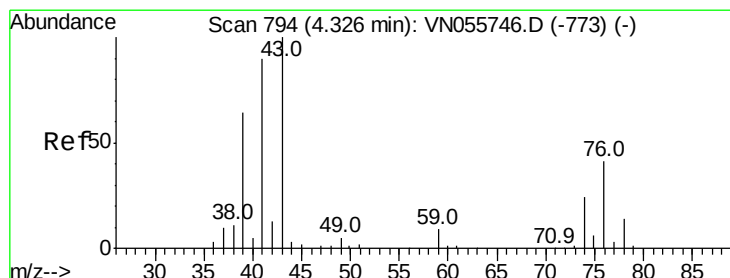
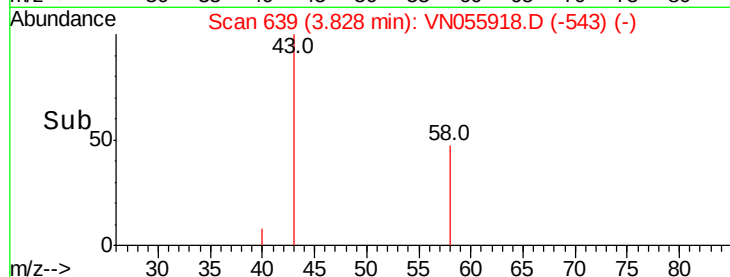
500

0

Time-->

3.75 3.80 3.85 3.90

3.83



#18

Methyl Acetate

Concen: 0.238 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN055918.D

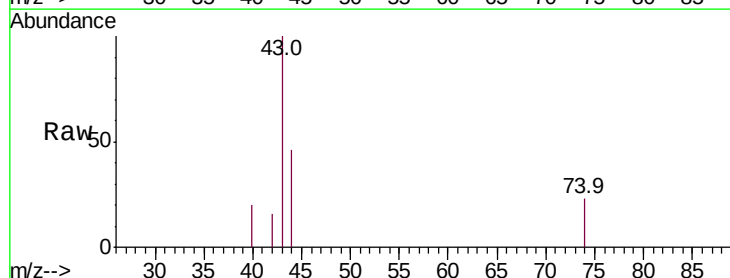
Acq: 31 May 2019 14:43

Tgt Ion: 43 Resp: 5040

Ion Ratio Lower Upper

43 100

74 11.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1500

1000

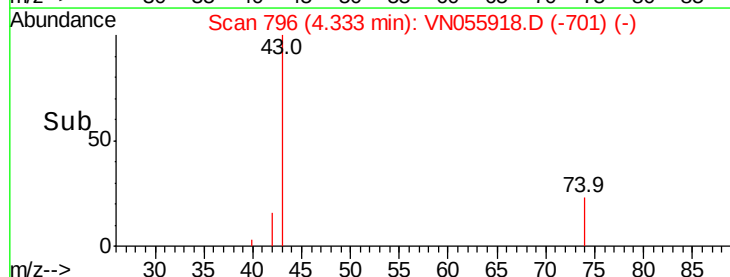
500

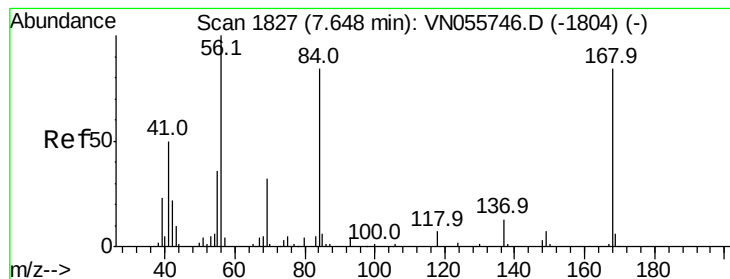
0

Time-->

4.25 4.30 4.35 4.40

4.33





#31

Cyclohexane

Concen: 1.012 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

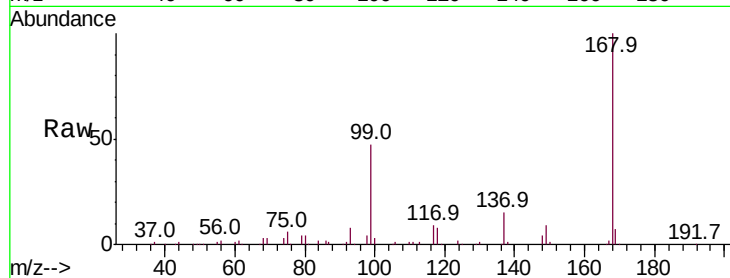
Tot Ion: 56 Resp: 5730

Ion Ratio Lower Upper

56 100

69 182.8 25.6 38.4#

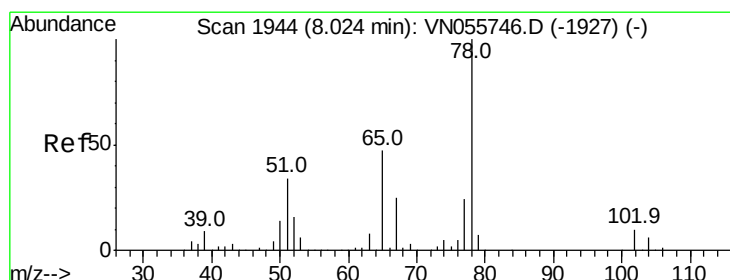
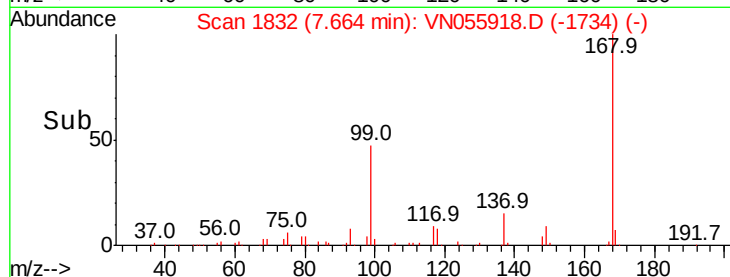
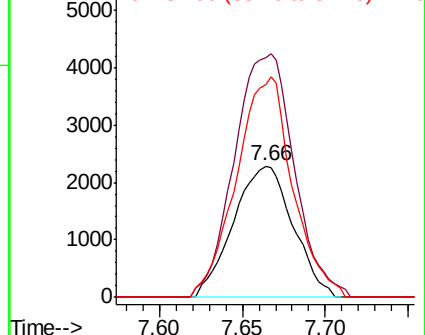
84 162.1 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.907 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055918.D

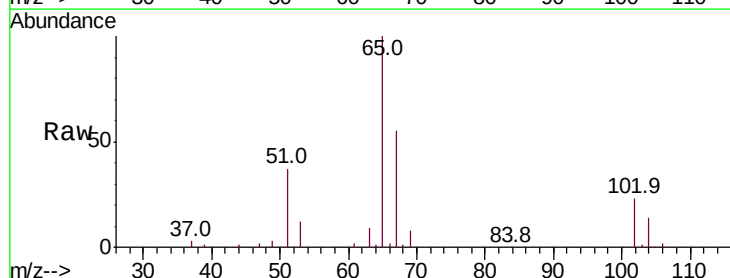
Acq: 31 May 2019 14:43

Tgt Ion: 65 Resp: 184417

Ion Ratio Lower Upper

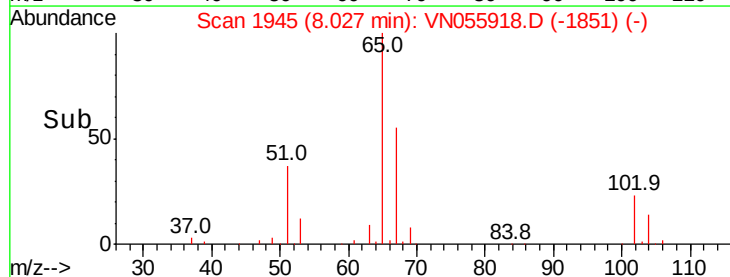
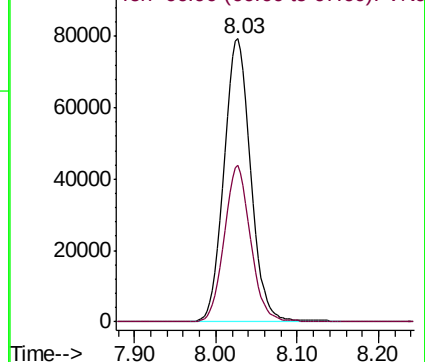
65 100

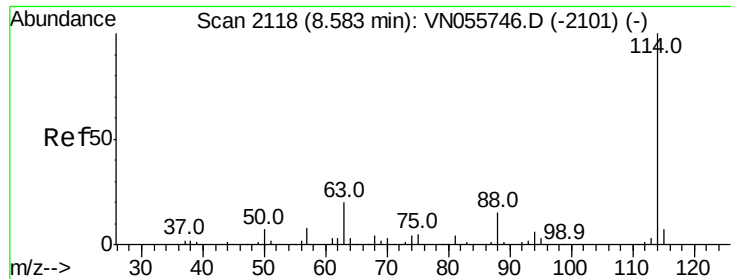
67 54.4 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

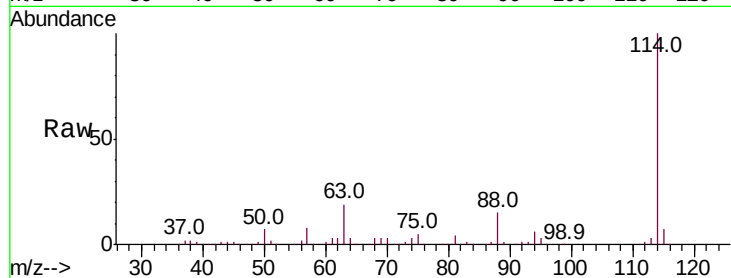




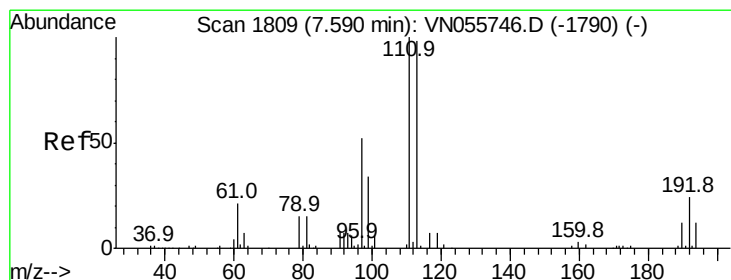
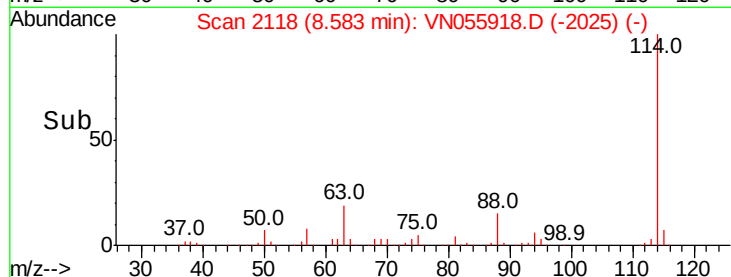
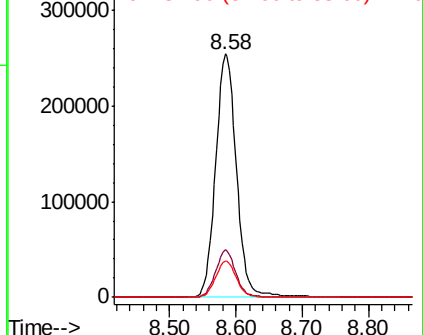
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055918.D
 Acq: 31 May 2019 14:43

Instrument :
 MSVOA_N
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 STORAGE-BLANK-SOIL-REF-6

Tot Ion:114 Resp: 555140
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.0 0.0 31.0

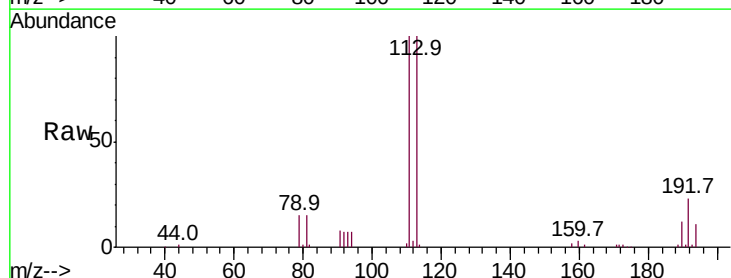


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

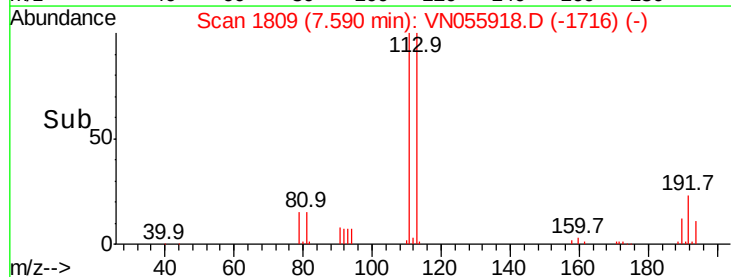
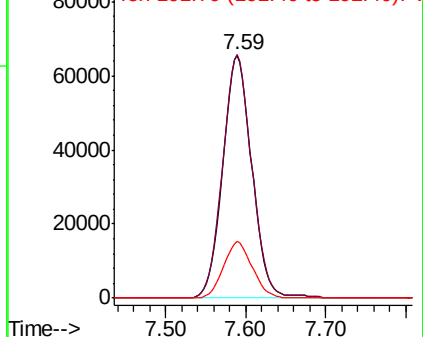


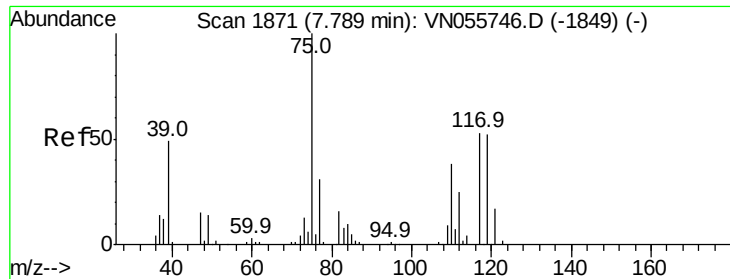
#35
 Dibromofluoromethane
 Concen: 46.419 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055918.D
 Acq: 31 May 2019 14:43

Tgt Ion:113 Resp: 162921
 Ion Ratio Lower Upper
 113 100
 111 100.0 81.9 122.9
 192 23.2 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

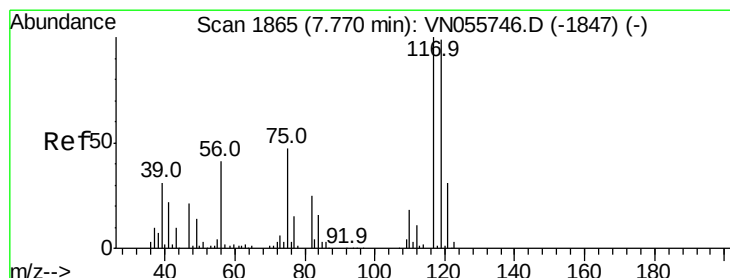
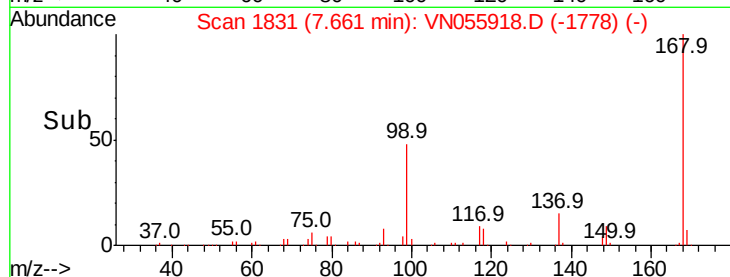
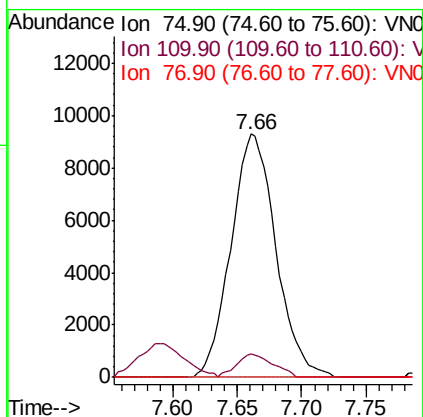
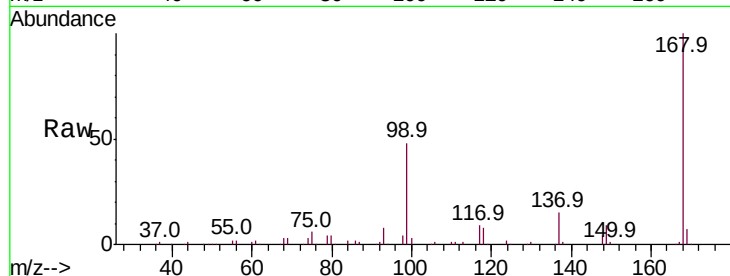




#36
 1,1-Dichloropropene
 Concen: 4.663 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055918.D
 Acq: 31 May 2019 14:43

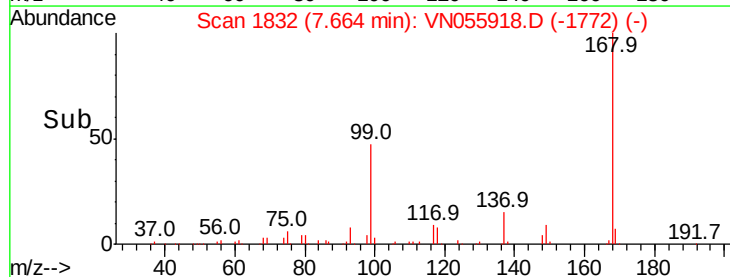
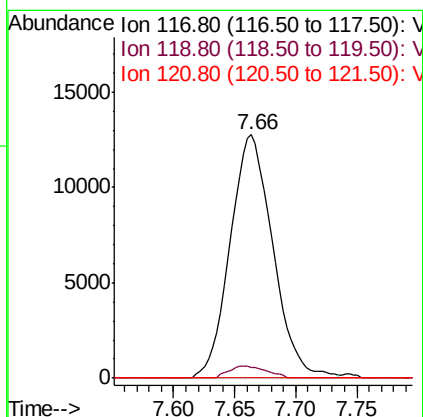
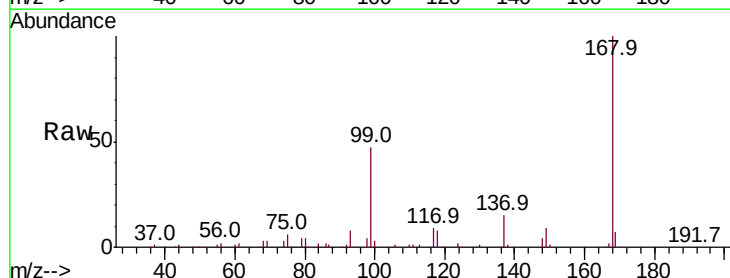
Instrument :
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 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

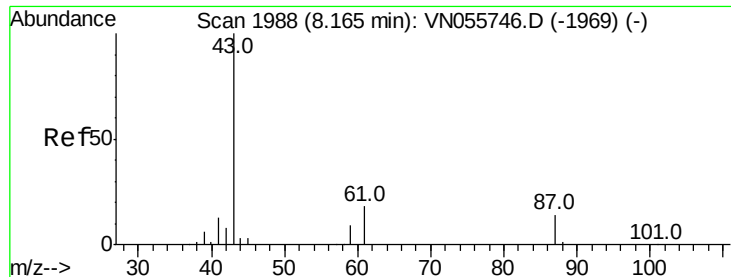
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.152 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055918.D
 Acq: 31 May 2019 14:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 2.409 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

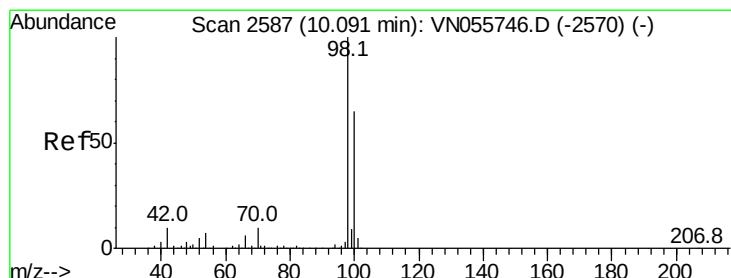
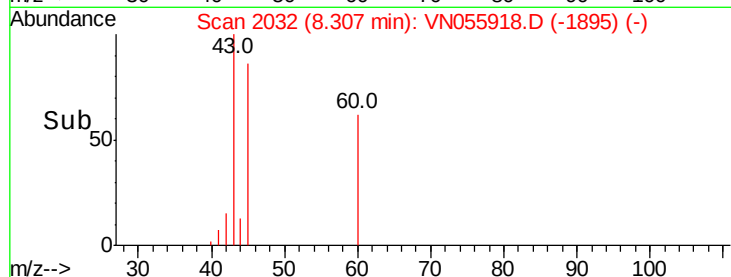
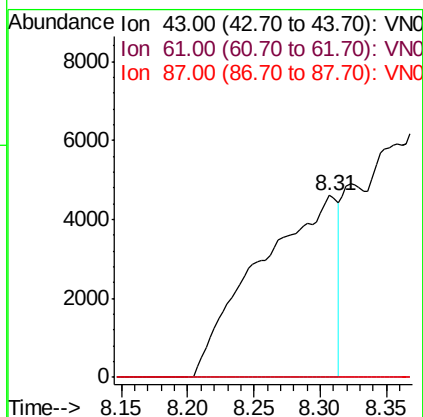
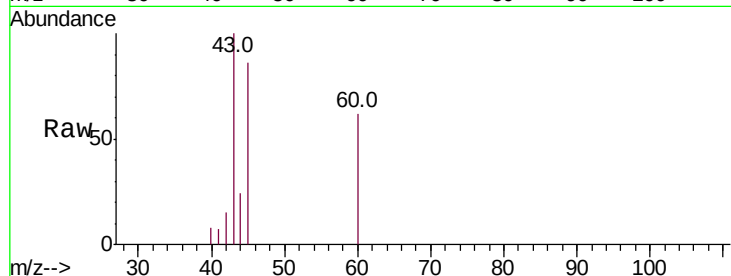
Tot Ion: 43 Resp: 18924

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 49.008 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055918.D

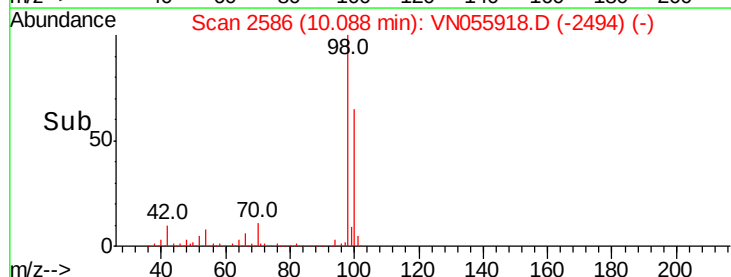
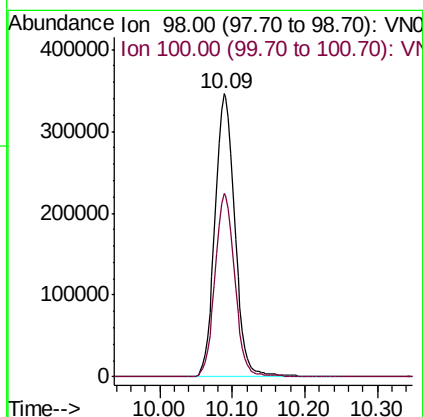
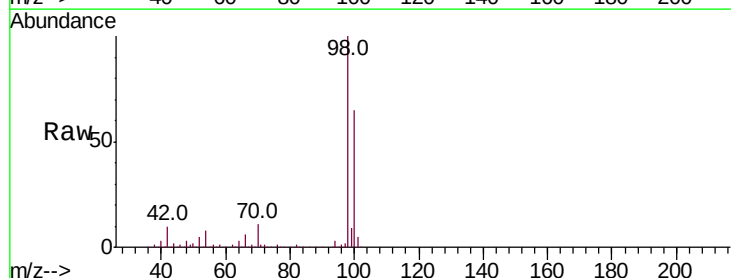
Acq: 31 May 2019 14:43

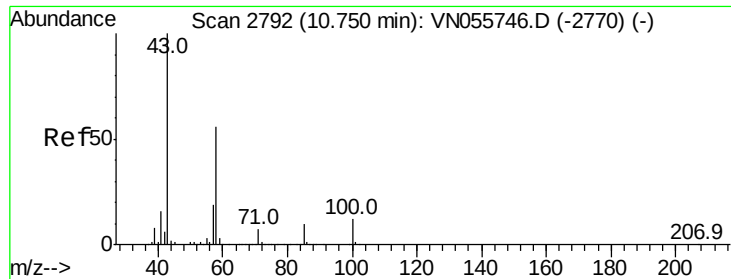
Tgt Ion: 98 Resp: 659809

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9

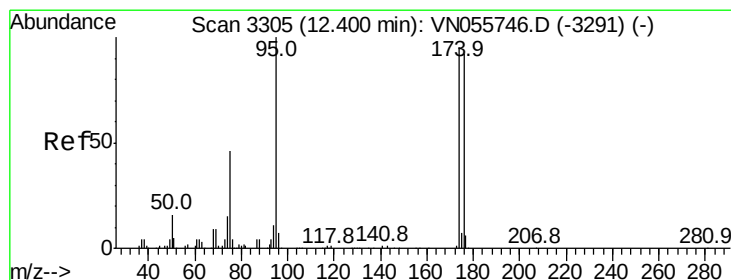
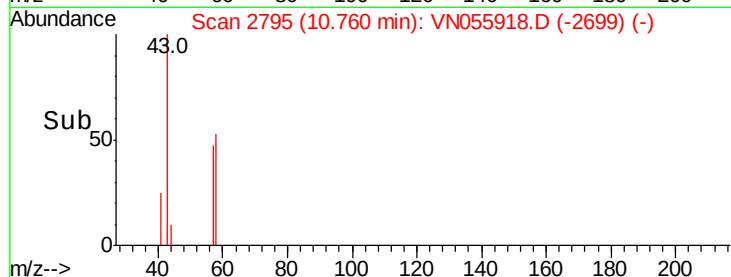
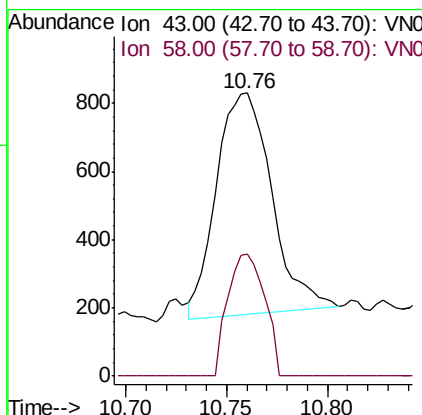
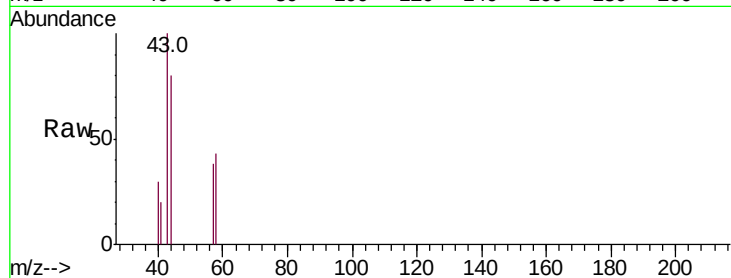




#59
2-Hexanone
Concen: 0.379 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN055918.D
Acq: 31 May 2019 14:43

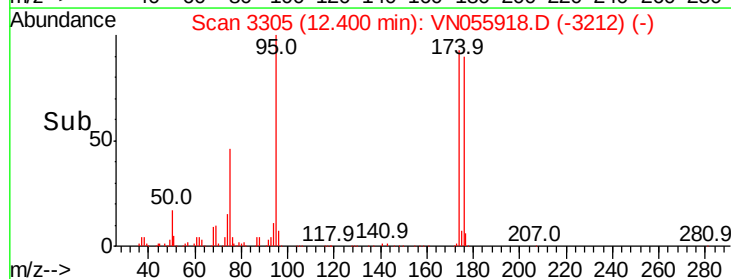
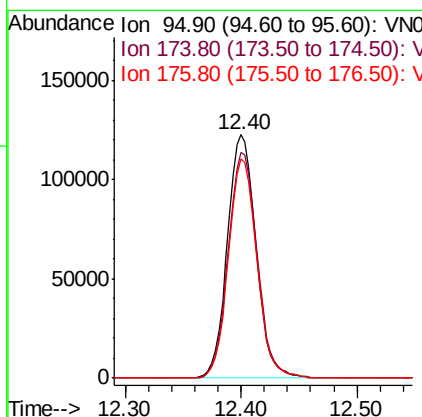
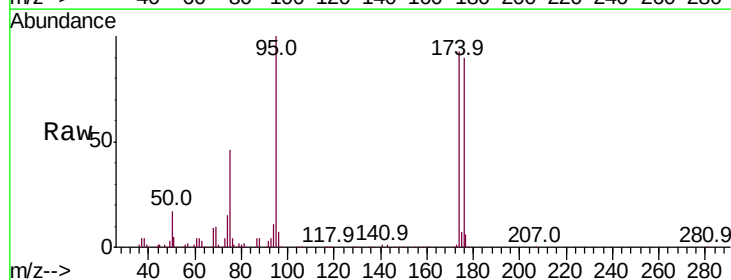
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

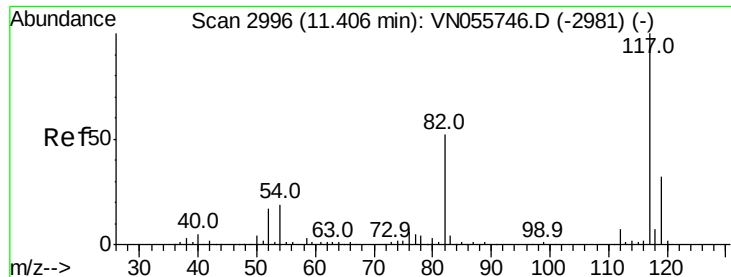
Tot Ion: 43 Resp: 1247
Ion Ratio Lower Upper
43 100
58 36.9 28.2 84.7



#62
4-Bromofluorobenzene
Concen: 45.280 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055918.D
Acq: 31 May 2019 14:43

Tgt Ion: 95 Resp: 209032
Ion Ratio Lower Upper
95 100
174 94.1 0.0 191.0
176 89.7 0.0 185.2

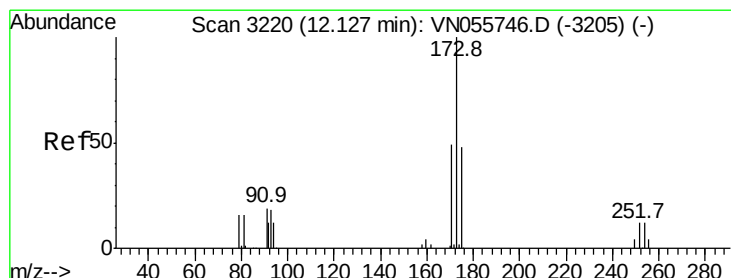
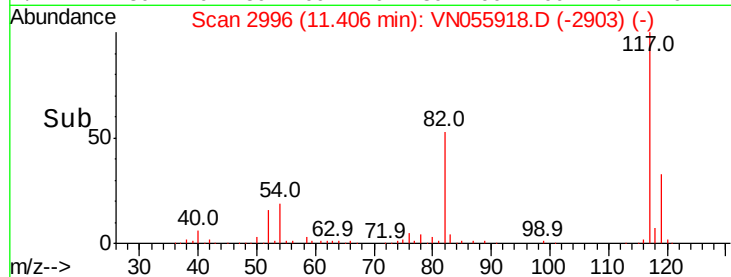
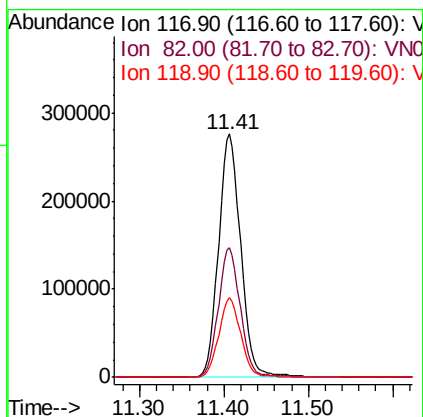
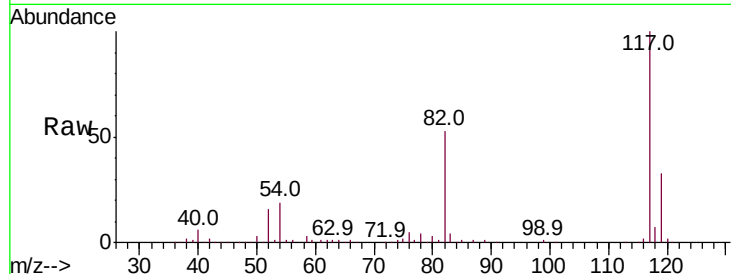




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055918.D
Acq: 31 May 2019 14:43

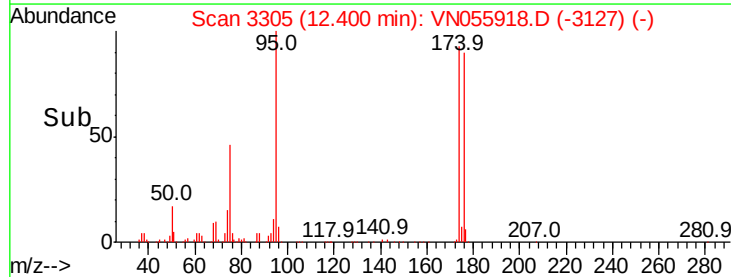
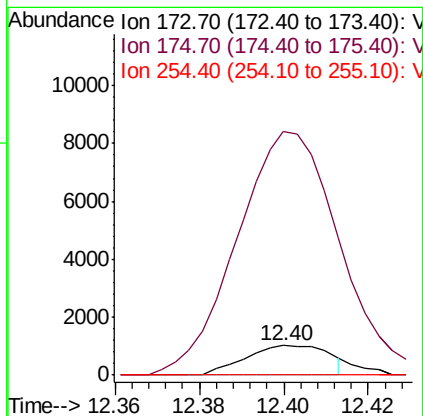
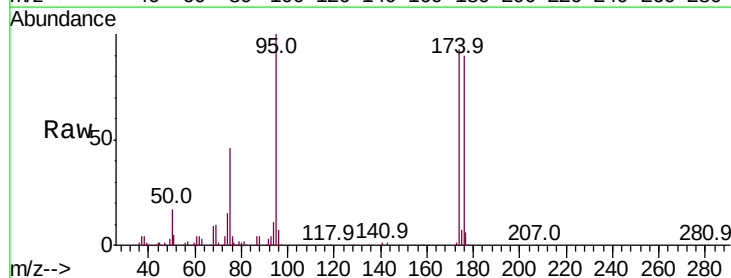
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

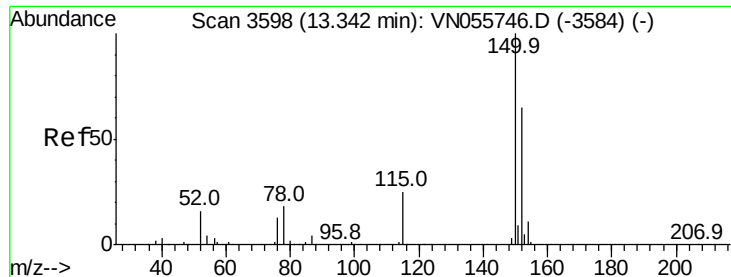
Tot Ion:117 Resp: 503850
Ion Ratio Lower Upper
117 100
82 53.1 41.8 62.8
119 32.6 25.4 38.0



#71
Bromoform
Concen: 0.409 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055918.D
Acq: 31 May 2019 14:43

Tgt Ion:173 Resp: 1403
Ion Ratio Lower Upper
173 100
175 894.1 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

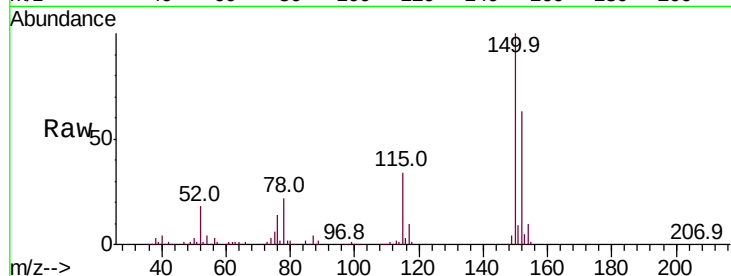
Tot Ion:152 Resp: 168838

Ion Ratio Lower Upper

152 100

115 54.0 27.0 81.0

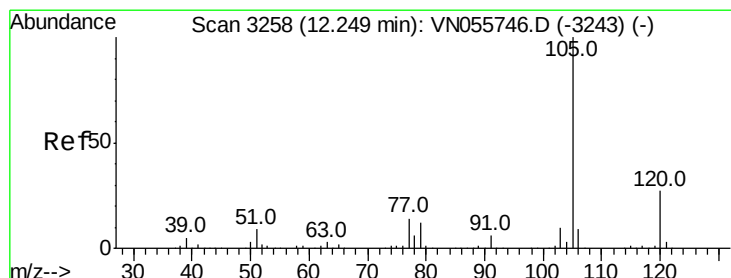
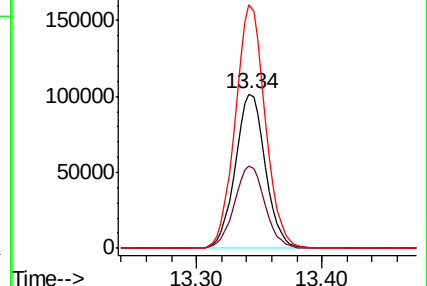
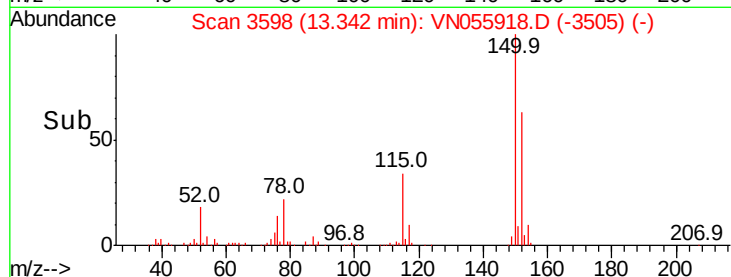
150 156.7 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055918.D

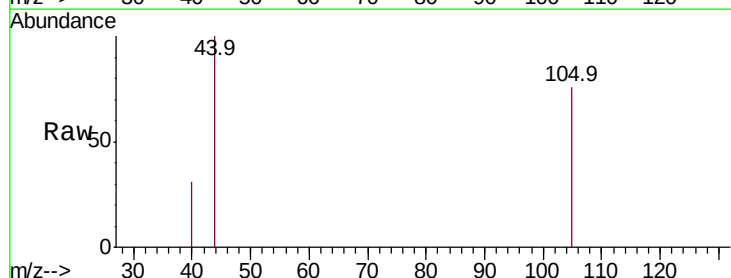
Acq: 31 May 2019 14:43

Tgt Ion:105 Resp: 771

Ion Ratio Lower Upper

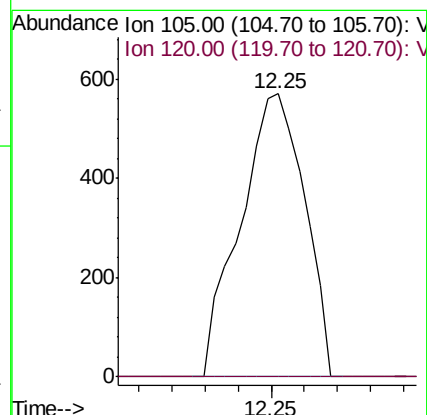
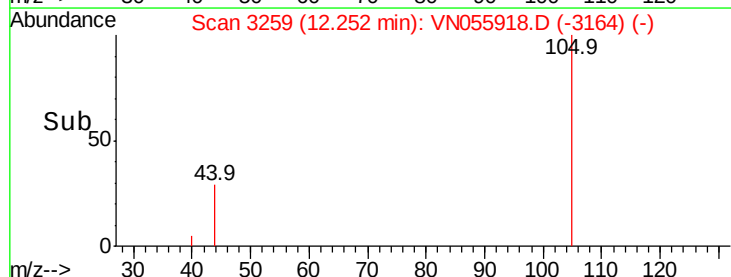
105 100

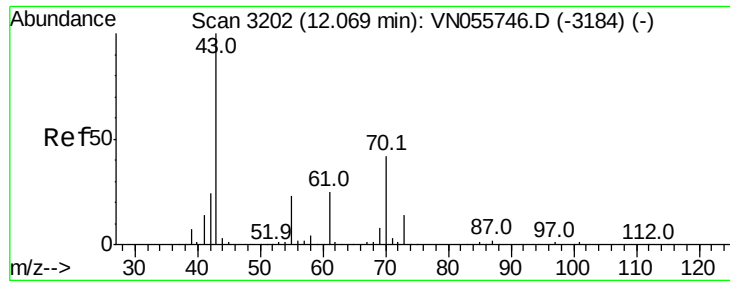
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 720

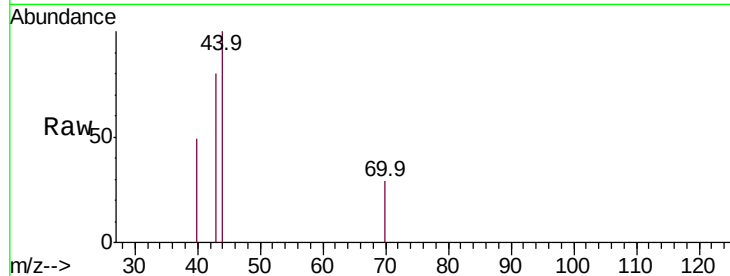
Ion Ratio Lower Upper

43 100

70 8.2 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

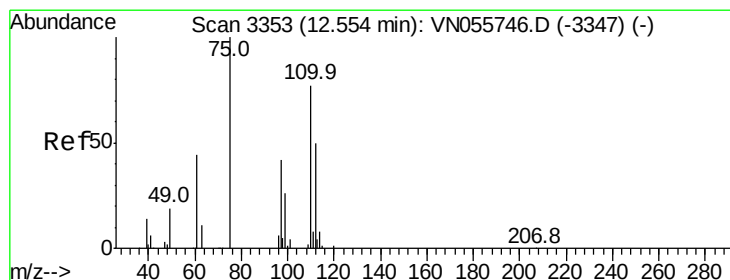
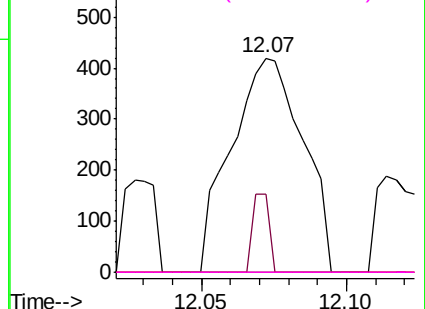
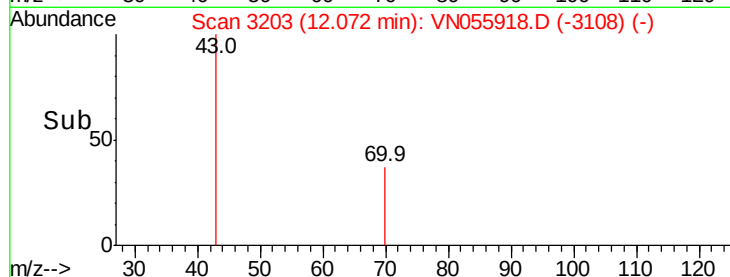


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.165 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055918.D

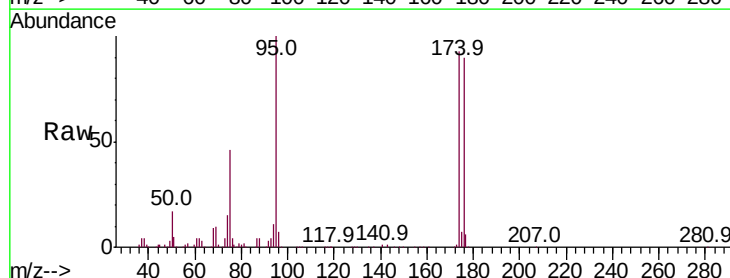
Acq: 31 May 2019 14:43

Tgt Ion: 75 Resp: 96776

Ion Ratio Lower Upper

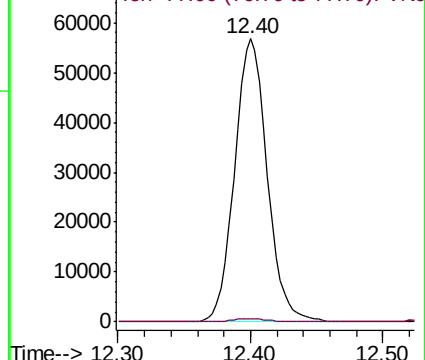
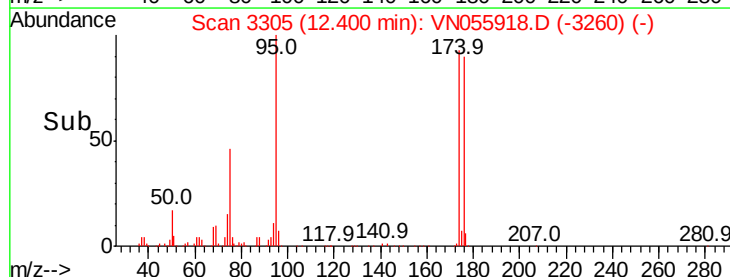
75 100

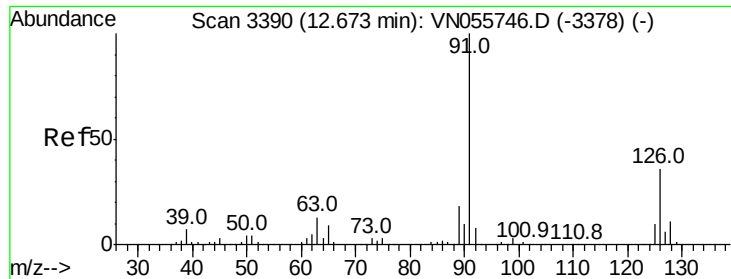
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

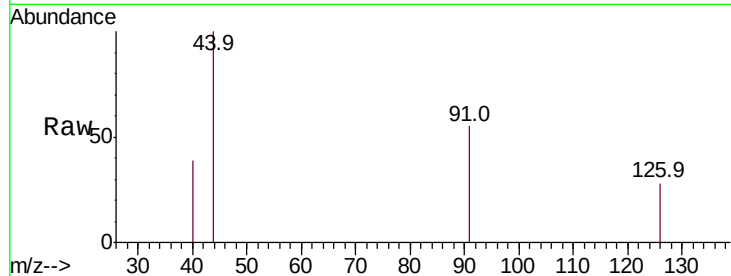
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 91 Resp: 509

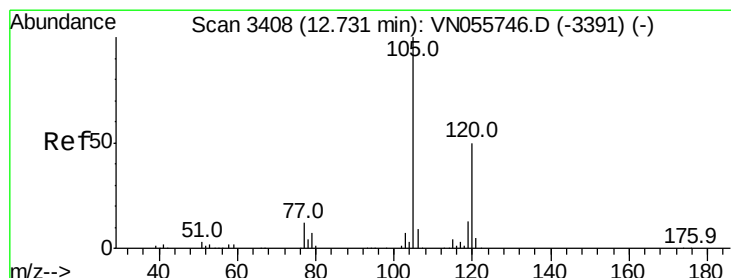
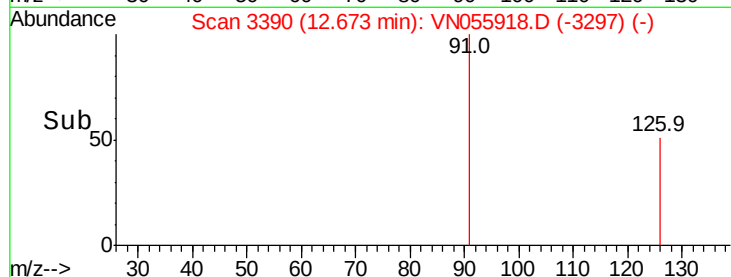
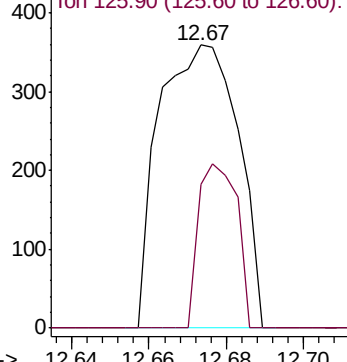
Ion Ratio Lower Upper

91 100

126 28.5 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055918.D

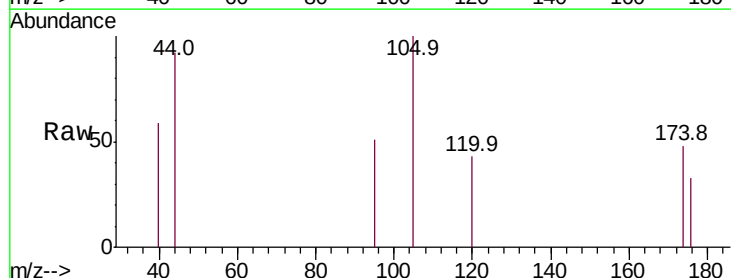
Acq: 31 May 2019 14:43

Tgt Ion: 105 Resp: 760

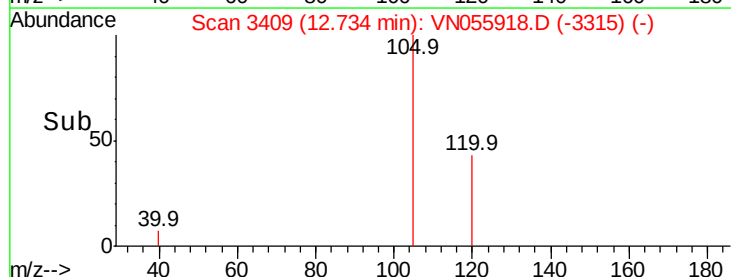
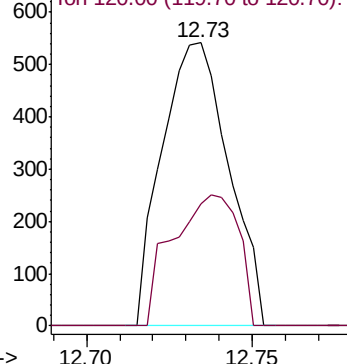
Ion Ratio Lower Upper

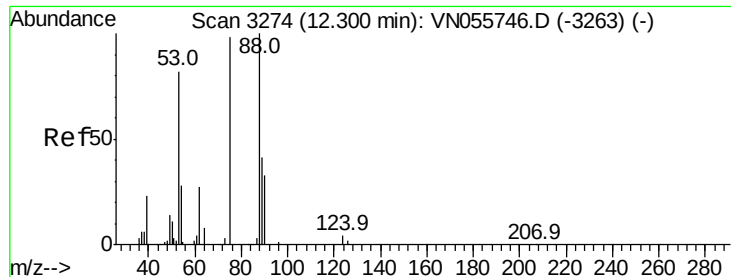
105 100

120 45.8 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 77.121 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

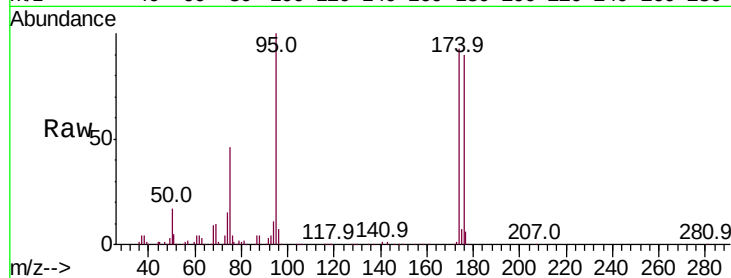
Tot Ion: 75 Resp: 96776

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

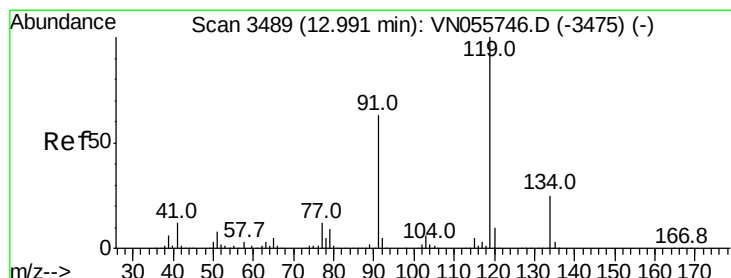
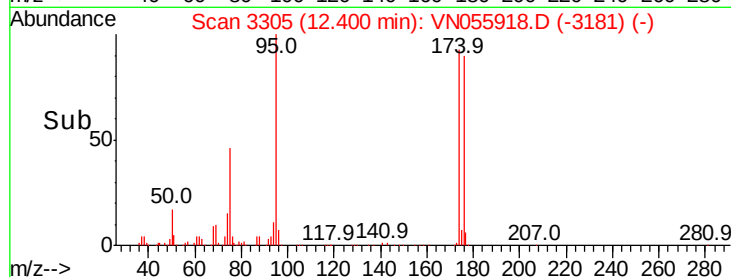
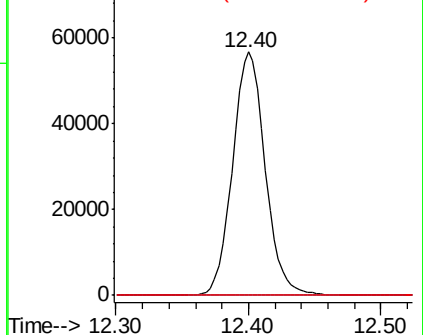
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

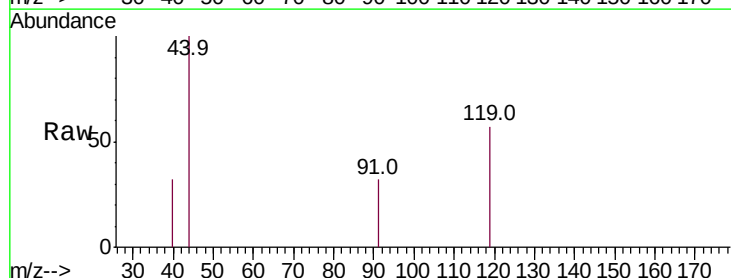
Tgt Ion: 119 Resp: 579

Ion Ratio Lower Upper

119 100

91 52.3 30.9 92.8

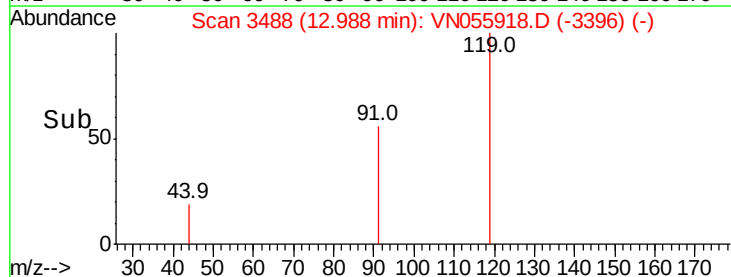
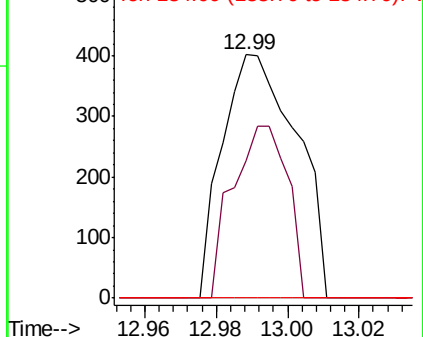
134 0.0 13.3 39.8#

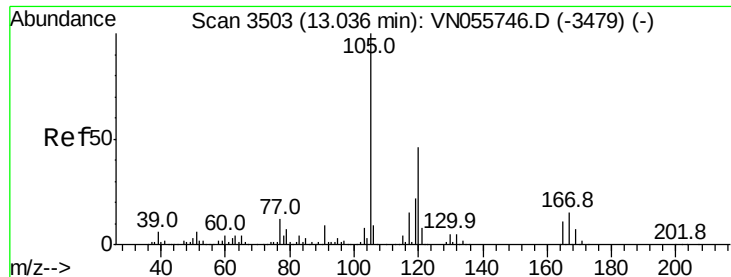


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

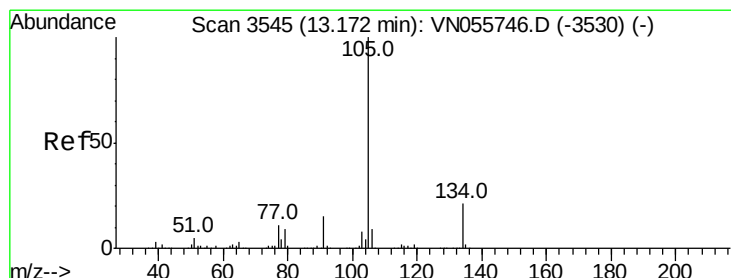
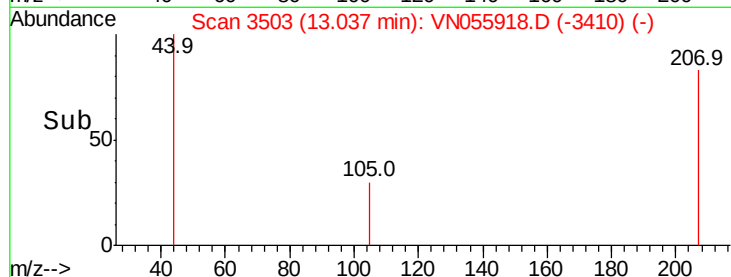
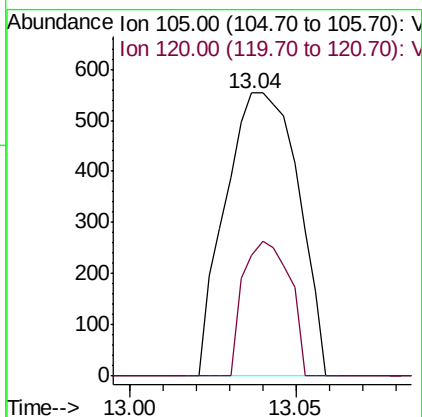
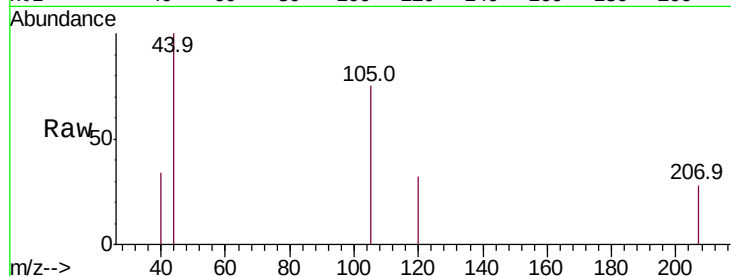




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN055918.D
Acq: 31 May 2019 14:43

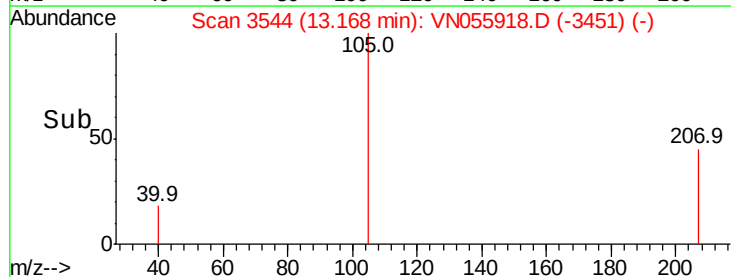
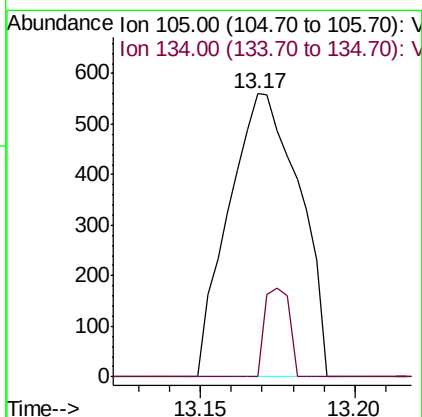
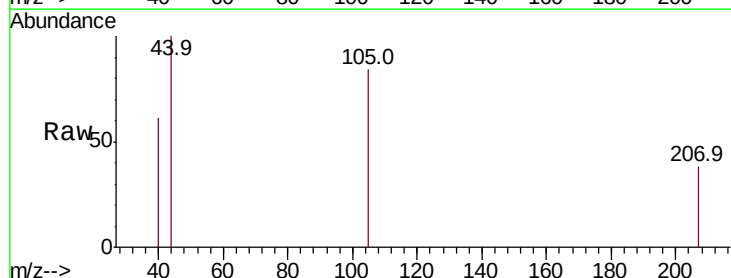
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

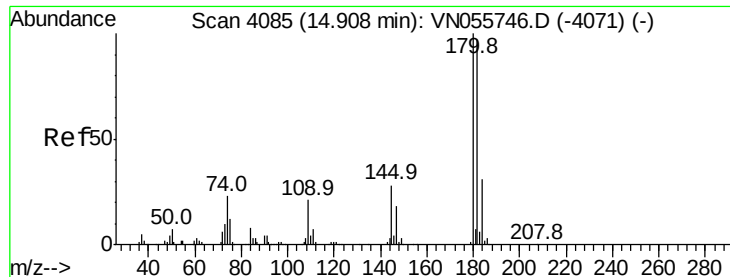
Tot Ion:105 Resp: 845
Ion Ratio Lower Upper
105 100
120 30.4 23.0 69.0



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3544
Delta R.T. -0.00 min
Lab File: VN055918.D
Acq: 31 May 2019 14:43

Tgt Ion:105 Resp: 889
Ion Ratio Lower Upper
105 100
134 10.9 10.4 31.2

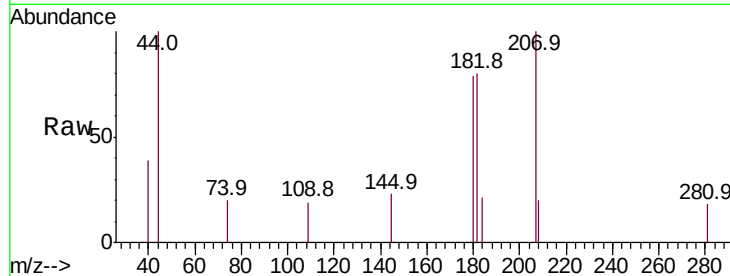




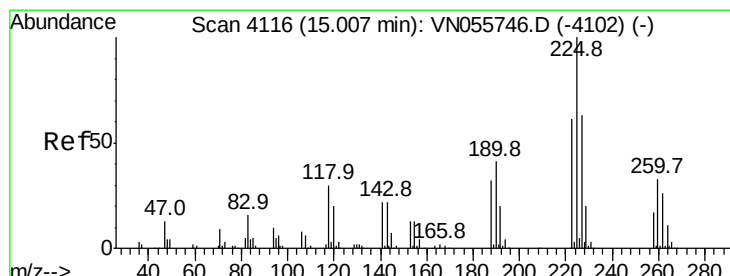
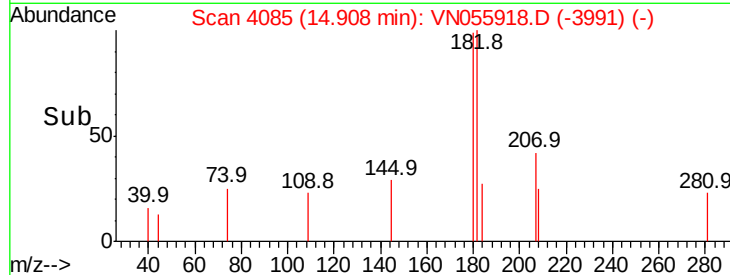
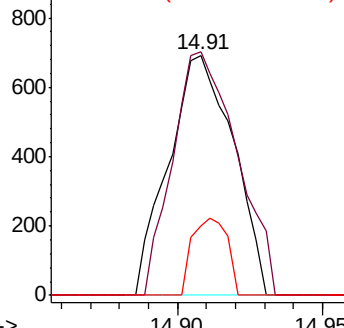
#93
 1,2,4-Trichlorobenzene
 Concen: 3.941 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055918.D
 Acq: 31 May 2019 14:43

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tot Ion:180 Resp: 1075
 Ion Ratio Lower Upper
 180 100
 182 100.7 48.3 144.9
 145 17.4 14.0 41.9

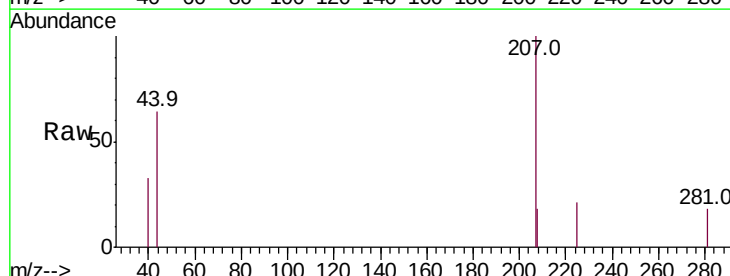


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

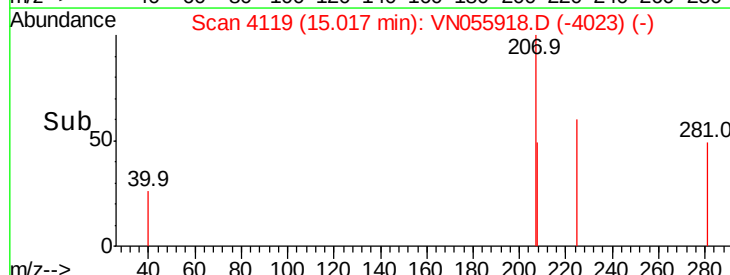
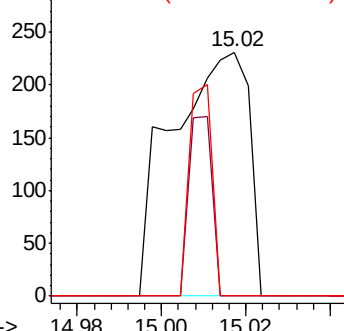


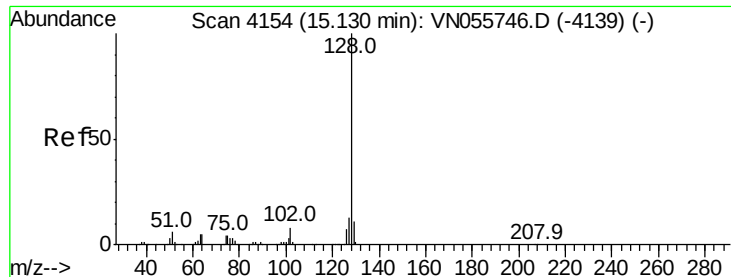
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.01 min
 Lab File: VN055918.D
 Acq: 31 May 2019 14:43

Tgt Ion:225 Resp: 292
 Ion Ratio Lower Upper
 225 100
 223 22.3 30.9 92.7#
 227 26.0 31.6 94.7#



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





#95

Naphthalene

Concen: 0.722 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

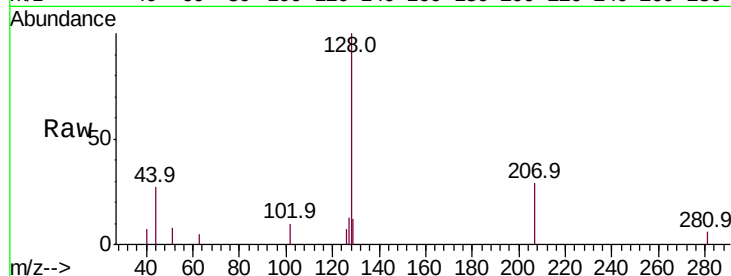
Tot Ion:128 Resp: 5637

Ion Ratio Lower Upper

128 100

127 11.3 10.3 15.5

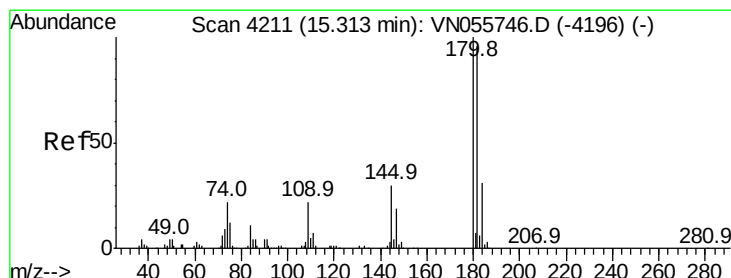
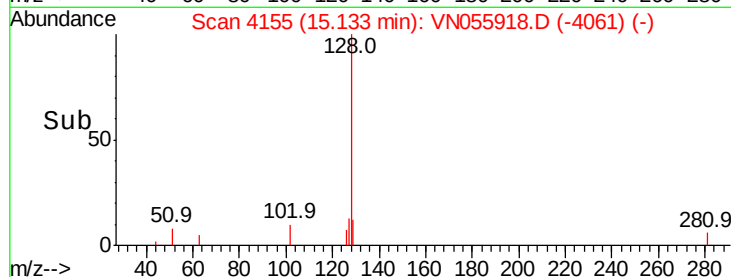
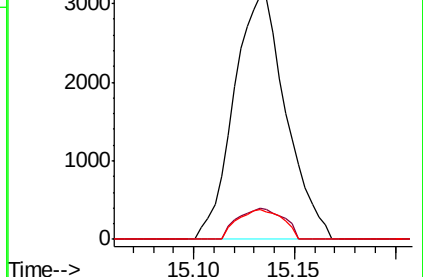
129 10.6 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 0.485 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN055918.D

Acq: 31 May 2019 14:43

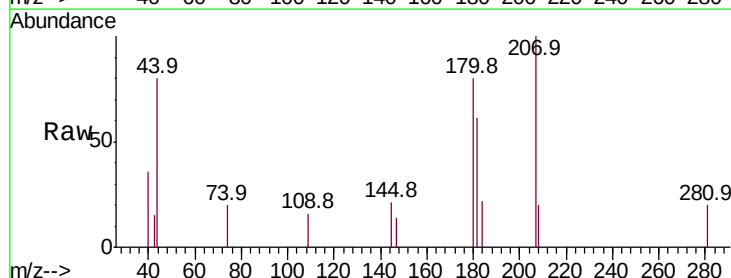
Tgt Ion:180 Resp: 1458

Ion Ratio Lower Upper

180 100

182 91.1 47.9 143.7

145 21.5 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

