

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055260.D
 Acq On : 25 Apr 2019 23:03
 Operator : JC/SP
 Sample : K2549-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-10

Quant Time: Apr 26 05:26:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 05:19:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	68155	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	356277	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	289672	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	161411	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	12.40	95	95570	21.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	71.63%
63) Toluene-d8	10.09	98	427707	31.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.60%

Target Compounds

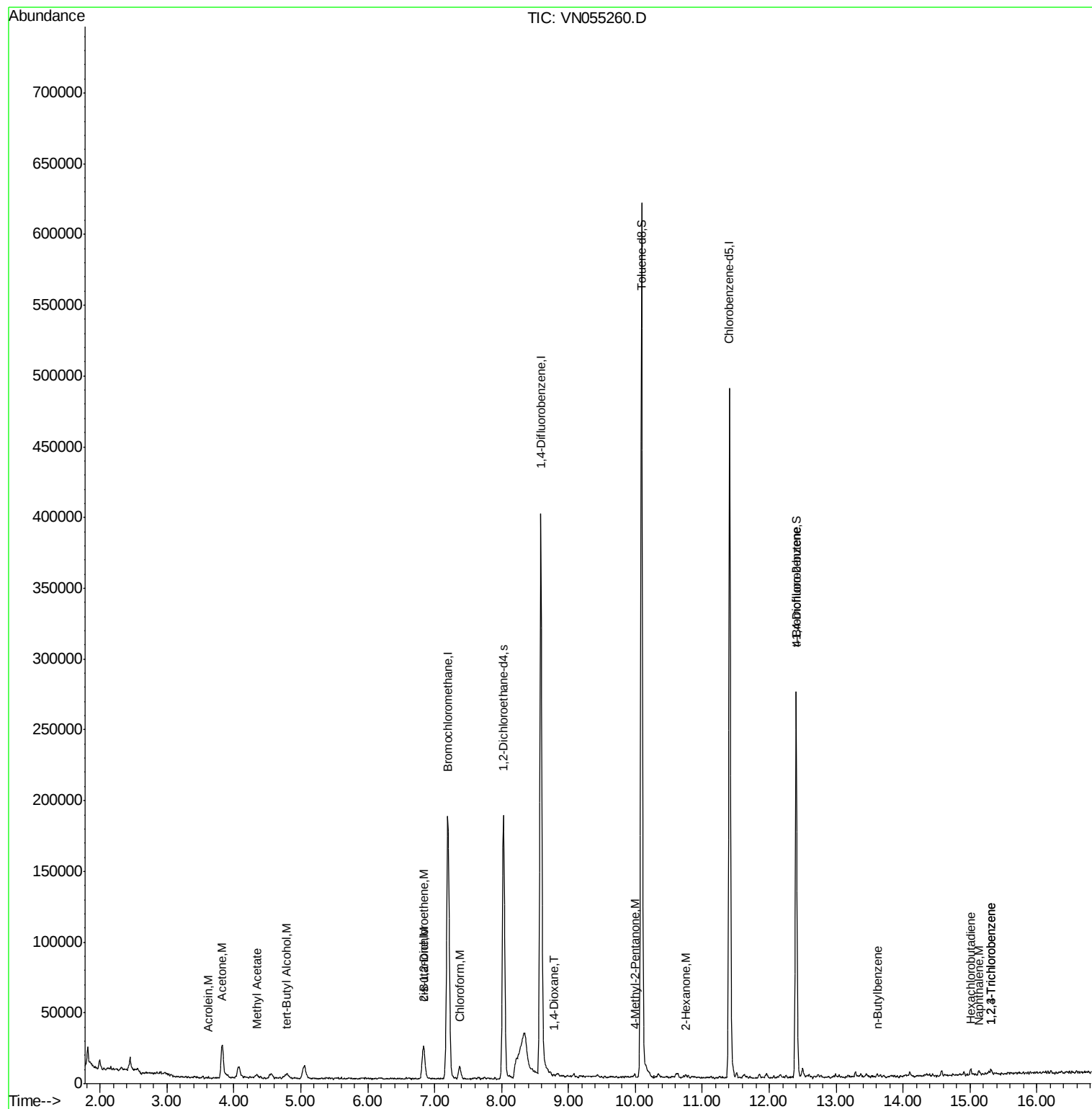
					Ovalue	
12) Methyl Acetate	4.33	43	2427	0.453	ug/l #	65
13) Acrolein	3.62	56	271	1.137	ug/l #	61
15) Acetone	3.82	58	11435	24.947	ug/l	83
22) cis-1,2-Dichloroethene	6.83	96	13886	2.981	ug/l	83
23) tert-Butyl Alcohol	4.78	59	1384	3.563	ug/l #	100
25) Chloroform	7.38	83	9348	1.181	ug/l	98
30) 2-Butanone	6.84	43	494	0.216	ug/l #	80
45) 1,4-Dioxane	8.78	88	88	1.946	ug/l #	32
58) 4-Methyl-2-Pentanone	9.99	43	1542	0.341	ug/l #	85
59) 2-Hexanone	10.75	43	1150	0.397	ug/l #	38
77) t-1,4-Dichloro-2-butene	12.40	75	46724	43.844	ug/l #	3
85) n-Butylbenzene	13.62	91	2005	0.202	ug/l	95
89) 1,2,4-Trichlorobenzene	15.31	180	1119	0.437	ug/l	91
90) Hexachlorobutadiene	15.01	225	879	0.406	ug/l	97
91) Naphthalene	15.13	128	2458	0.416	ug/l #	78
92) 1,2,3-Trichlorobenzene	15.31	180	1119	0.419	ug/l	90

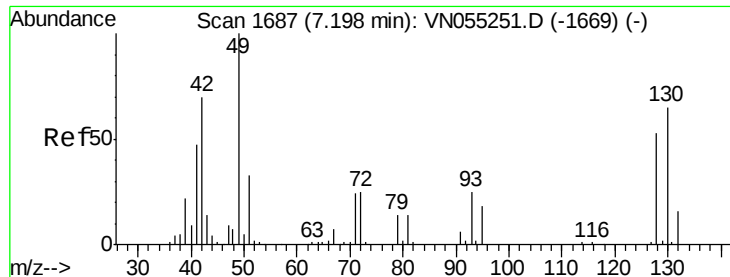
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 26 05:19:18 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN055260.D

Acq: 25 Apr 2019 23:03

Instrument :
MSVOA_N
ClientSampled :
55-ST-10

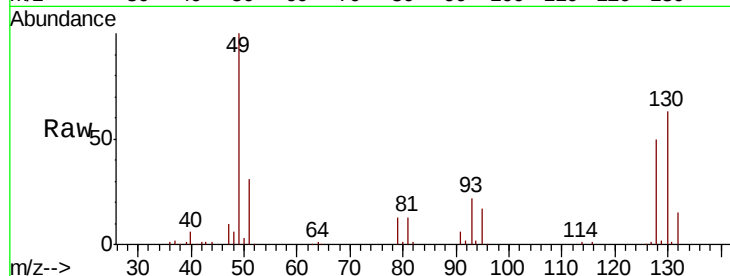
Tot Ion:128 Resp: 68155

Ion Ratio Lower Upper

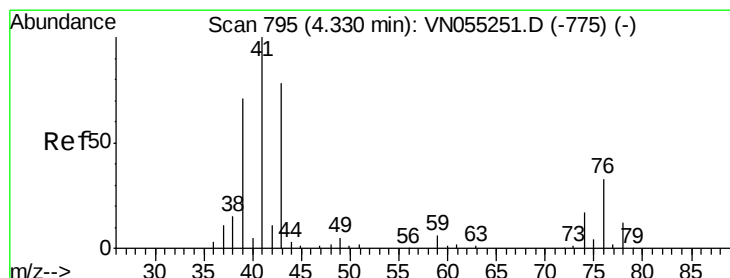
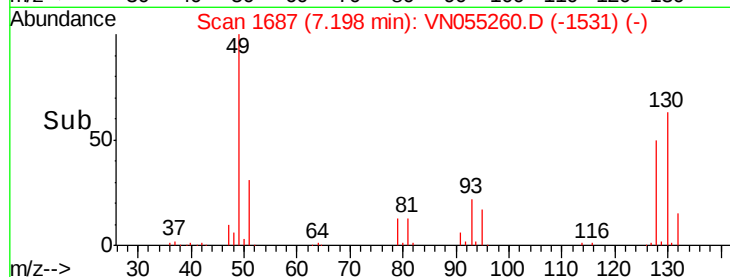
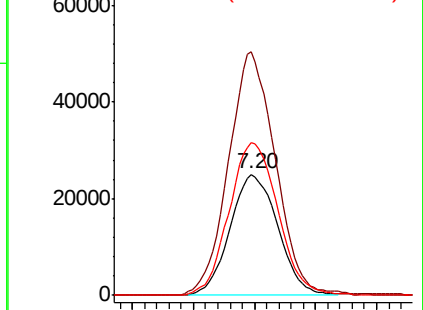
128 100

49 196.2 0.0 485.0

130 128.9 0.0 324.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.453 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055260.D

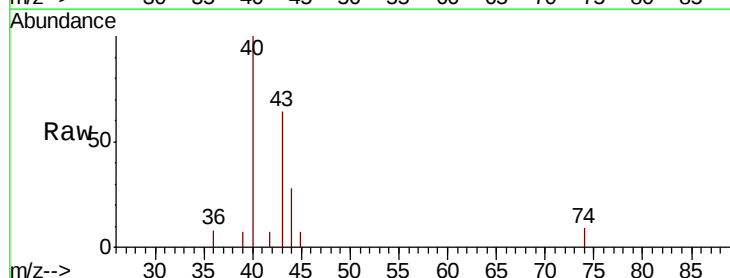
Acq: 25 Apr 2019 23:03

Tgt Ion: 43 Resp: 2427

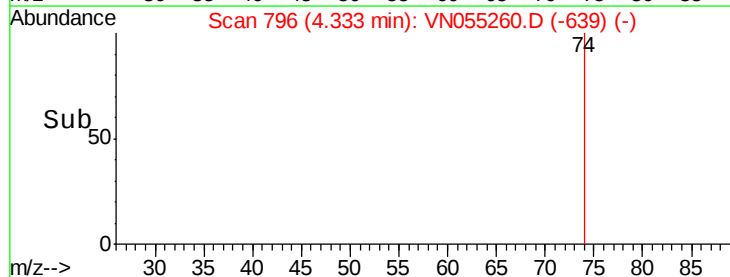
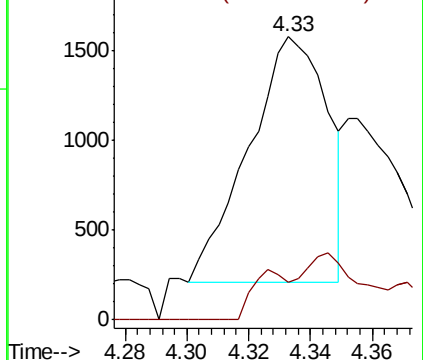
Ion Ratio Lower Upper

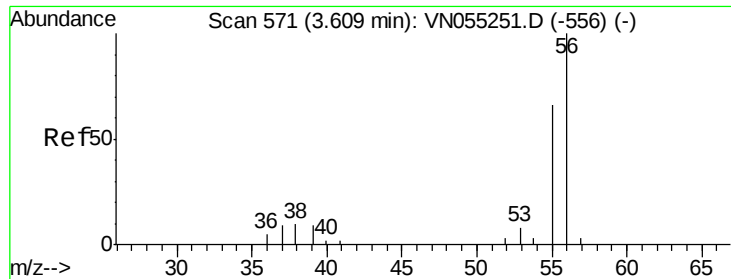
43 100

74 5.6 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 1.137 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN055260.D

Acq: 25 Apr 2019 23:03

Instrument :

MSVOA_N

ClientSampled :

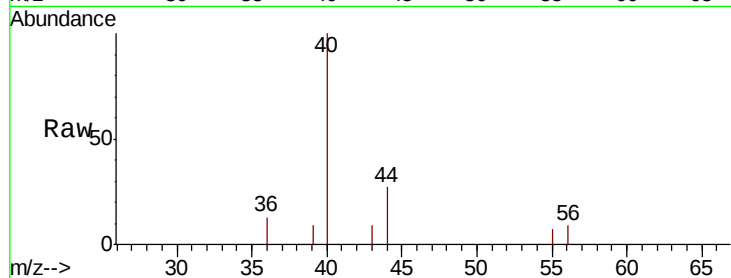
55-ST-10

Tot Ion: 56 Resp: 271

Ion Ratio Lower Upper

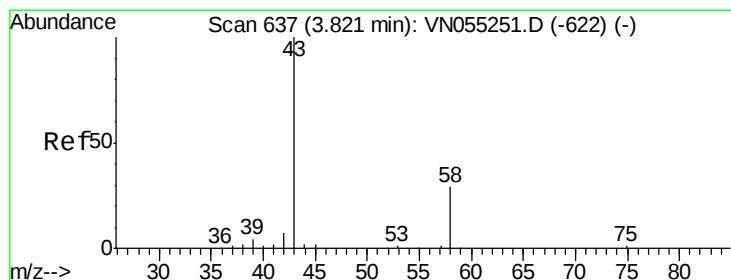
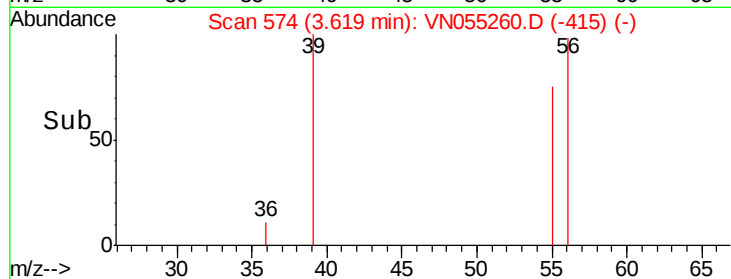
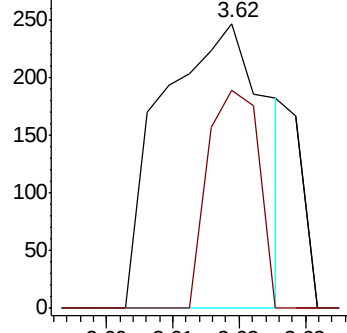
56 100

55 37.3 54.9 82.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 24.947 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055260.D

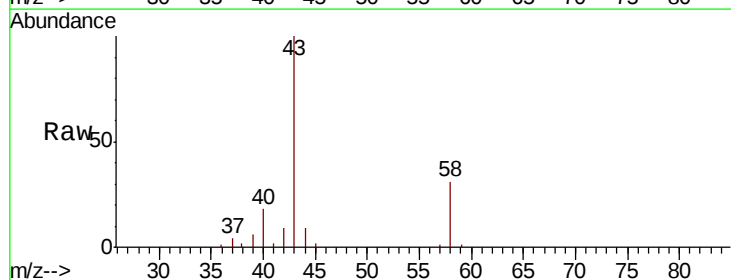
Acq: 25 Apr 2019 23:03

Tgt Ion: 58 Resp: 11435

Ion Ratio Lower Upper

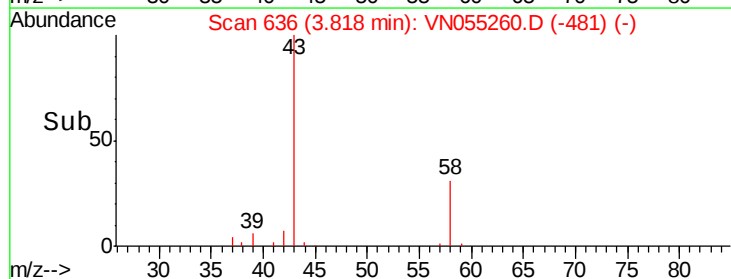
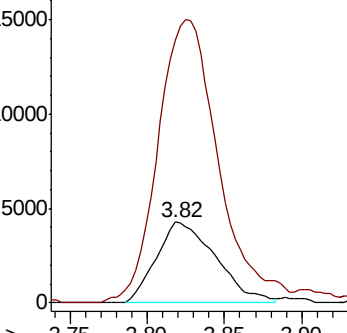
58 100

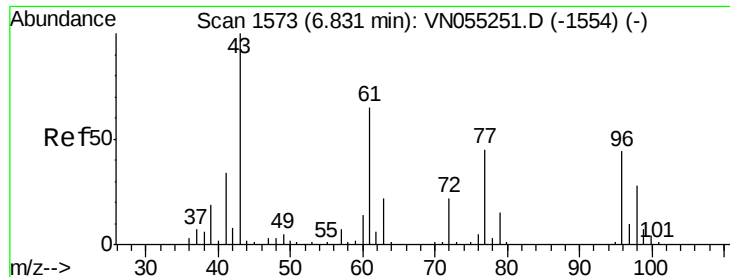
43 310.5 278.2 417.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#22

cis-1,2-Dichloroethene

Concen: 2.981 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN055260.D

Acq: 25 Apr 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

55-ST-10

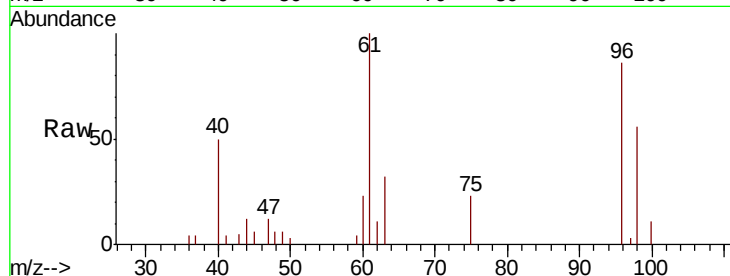
Tot Ion: 96 Resp: 13886

Ion Ratio Lower Upper

96 100

61 132.9 129.1 193.7

98 62.4 53.2 79.8



Abundance Ion 96.00 (95.70 to 96.70): VN055260.D (-1417) (-)

Ion 61.00 (60.70 to 61.70): VN055260.D (-1417) (-)

Ion 98.00 (97.70 to 98.70): VN055260.D (-1417) (-)

6.83

8000

6000

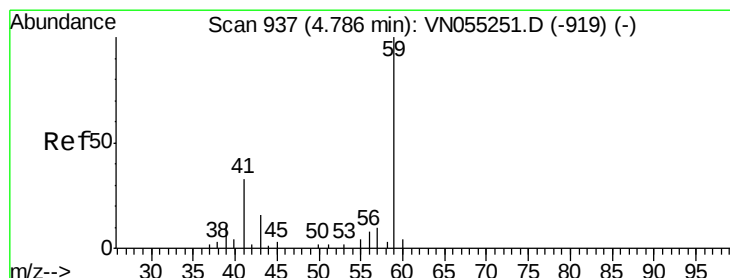
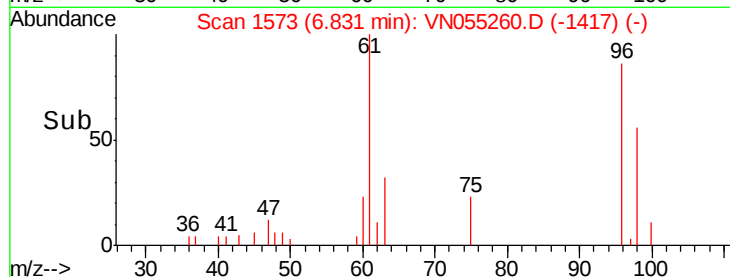
4000

2000

0

Time-->

6.75 6.80 6.85 6.90



#23

tert-Butyl Alcohol

Concen: 3.563 ug/l

RT: 4.78 min Scan# 935

Delta R.T. -0.01 min

Lab File: VN055260.D

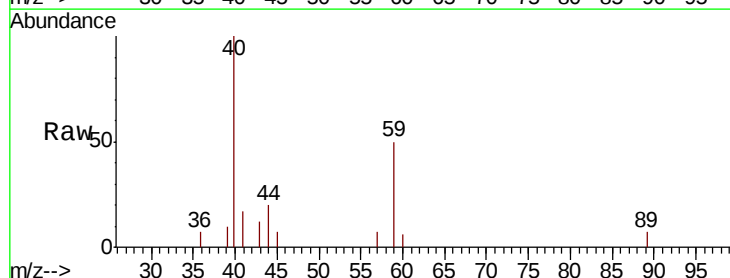
Acq: 25 Apr 2019 23:03

Tgt Ion: 59 Resp: 1384

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN055260.D (-781) (-)

Ion 52.00 (51.70 to 52.70): VN055260.D (-781) (-)

4.78

1500

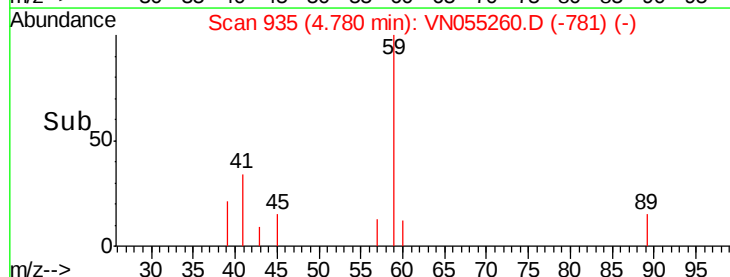
1000

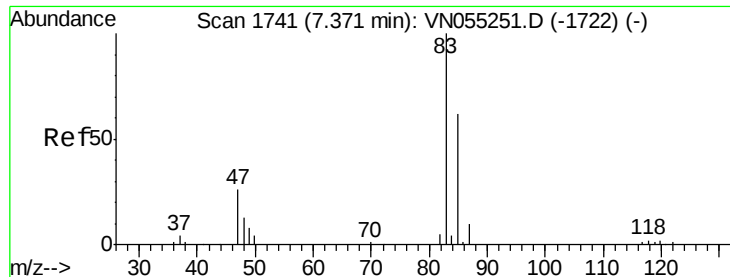
500

0

Time-->

4.74 4.76 4.78 4.80

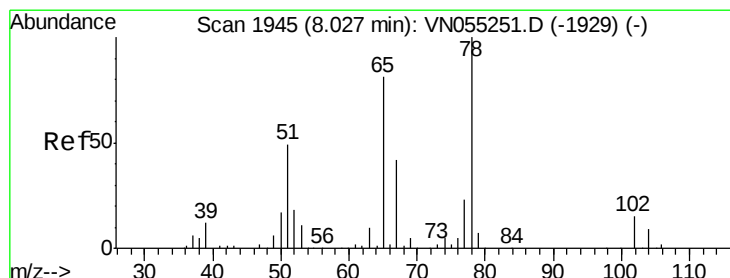
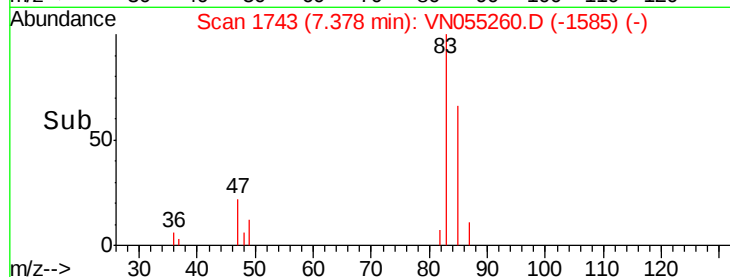
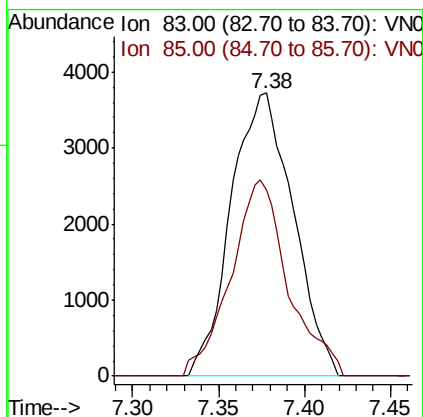
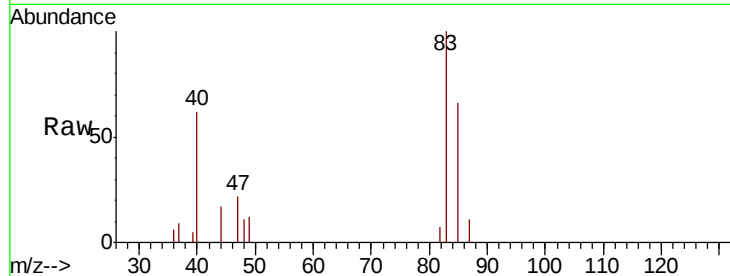




#25
Chloroform
Concen: 1.181 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN055260.D
Acq: 25 Apr 2019 23:03

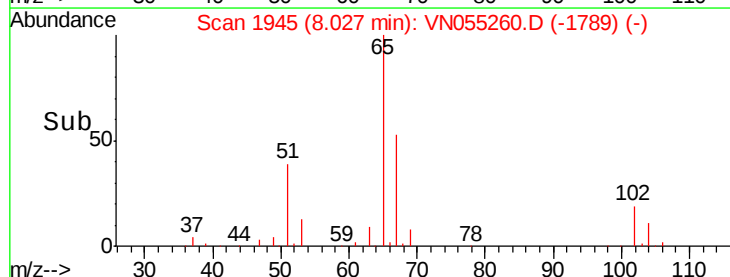
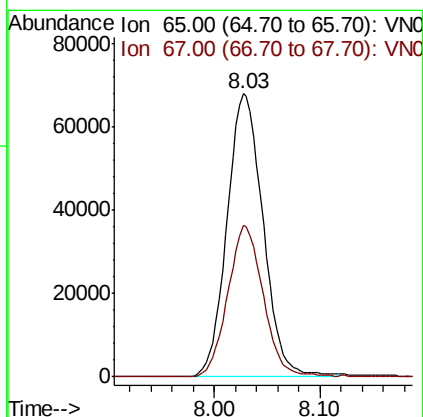
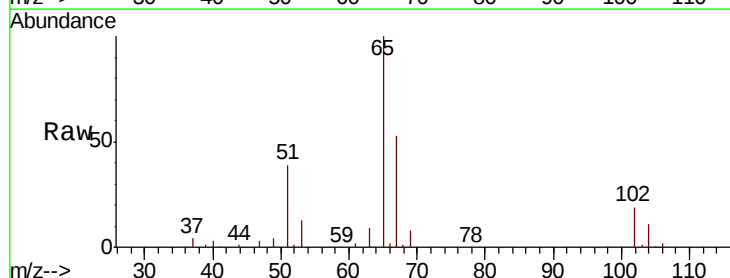
Instrument :
MSVOA_N
ClientSampleId :
55-ST-10

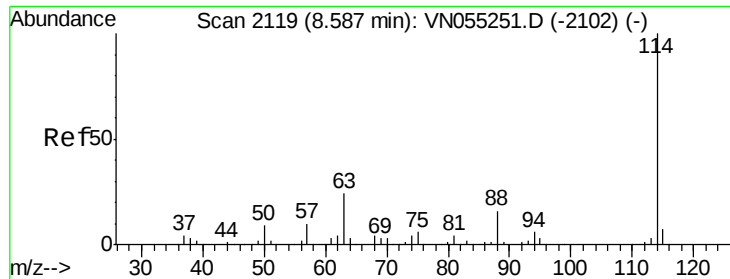
Tot Ion: 83 Resp: 9348
Ion Ratio Lower Upper
83 100
85 60.6 49.7 74.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055260.D
Acq: 25 Apr 2019 23:03

Tgt Ion: 65 Resp: 161411
Ion Ratio Lower Upper
65 100
67 52.0 41.9 62.9

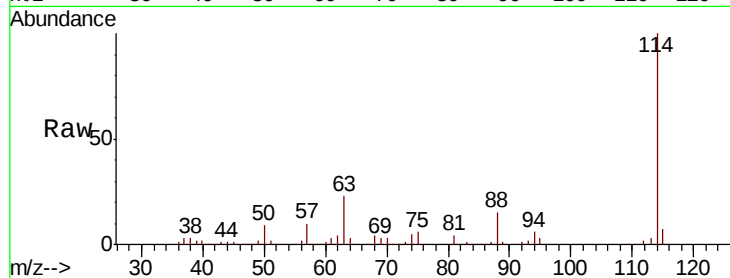




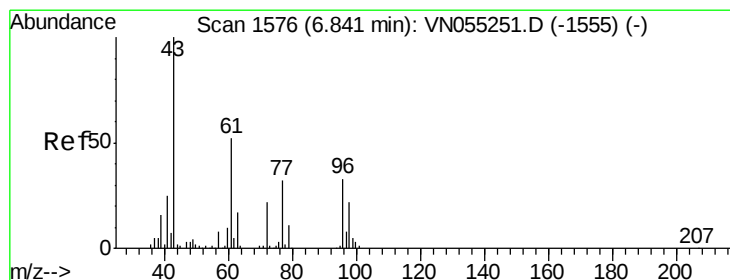
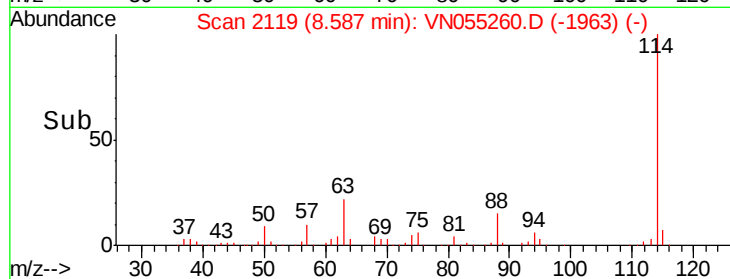
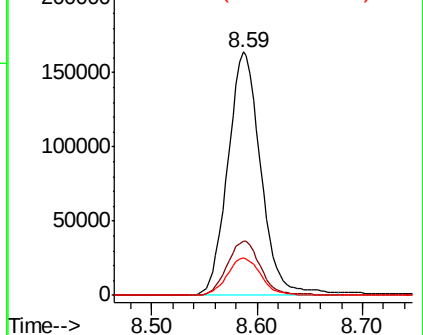
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055260.D
 Acq: 25 Apr 2019 23:03

Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-10

Tot Ion:114 Resp: 356277
 Ion Ratio Lower Upper
 114 100
 63 22.3 18.2 27.2
 88 15.5 12.6 18.8

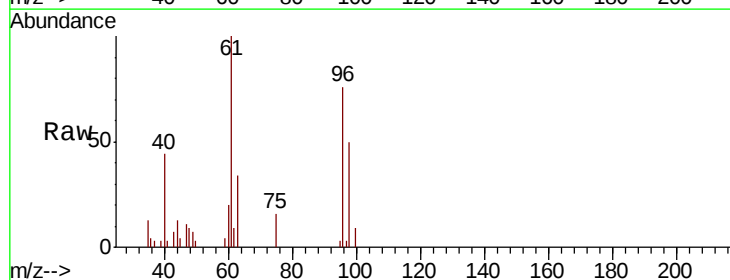


Abundance Ion 114.00 (113.70 to 114.70): VN055260.D (-1963) (-)
 Ion 63.00 (62.70 to 63.70): VN055260.D (-1963) (-)
 Ion 88.00 (87.70 to 88.70): VN055260.D (-1963) (-)

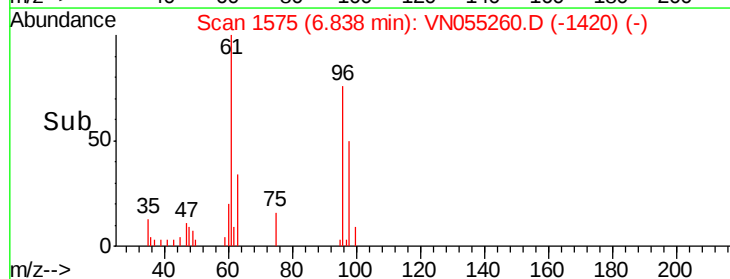
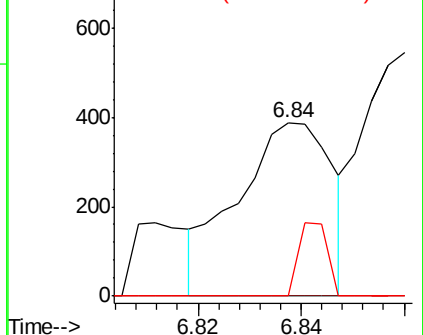


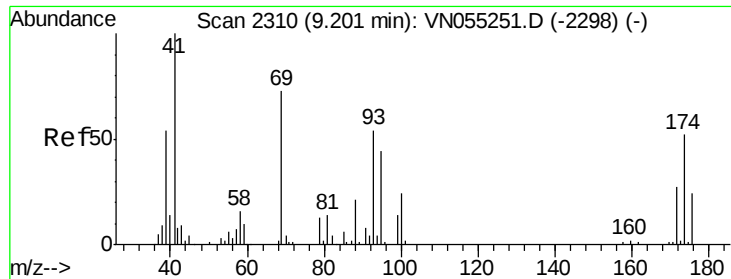
#30
 2-Butanone
 Concen: 0.216 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN055260.D
 Acq: 25 Apr 2019 23:03

Tgt Ion: 43 Resp: 494
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.0 9.0#
 72 12.8 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN055260.D (-1420) (-)
 Ion 57.00 (56.70 to 57.70): VN055260.D (-1420) (-)
 Ion 72.00 (71.70 to 72.70): VN055260.D (-1420) (-)

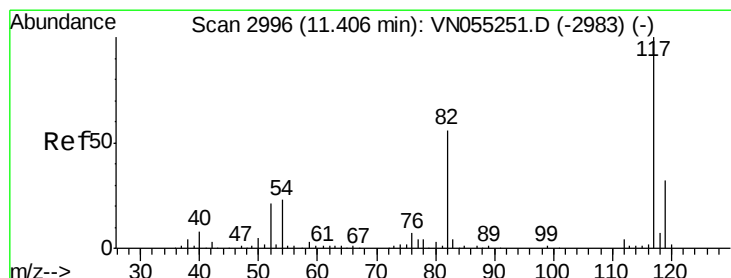
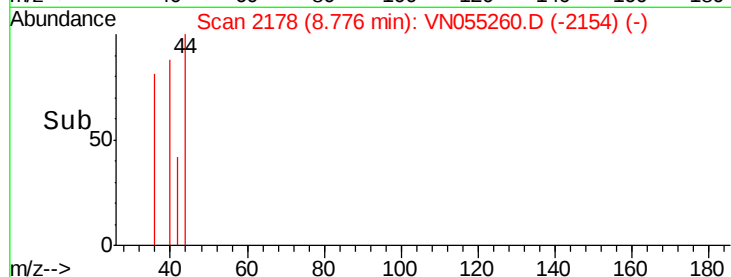
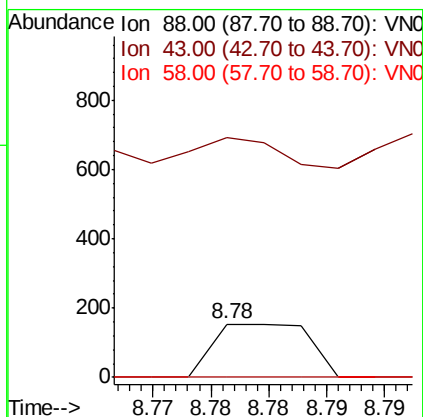
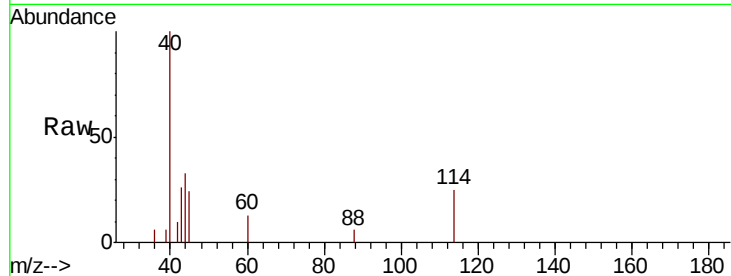




#45
 1,4-Dioxane
 Concen: 1.946 ug/l
 RT: 8.78 min Scan# 2178
 Delta R.T. -0.42 min
 Lab File: VN055260.D
 Acq: 25 Apr 2019 23:03

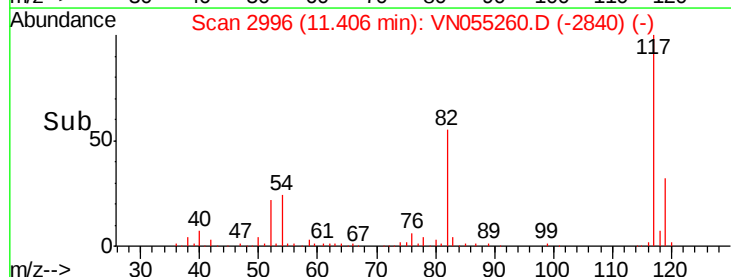
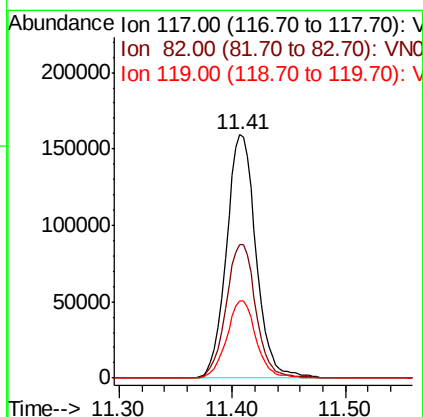
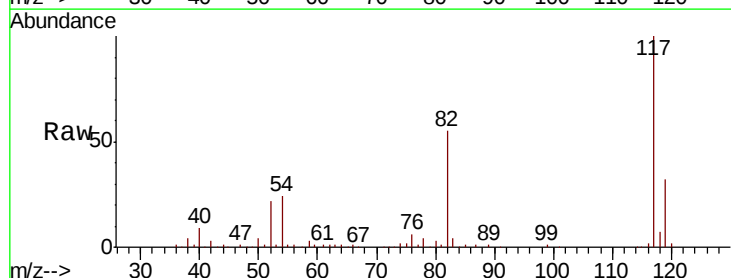
Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-10

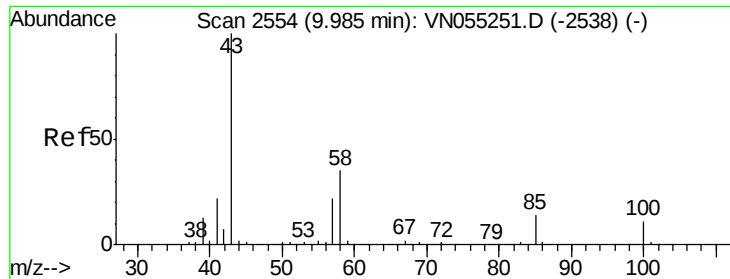
Tot Ion: 88 Resp: 88
 Ion Ratio Lower Upper
 88 100
 43 50.0 29.4 44.0#
 58 0.0 62.4 93.6#



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN055260.D
 Acq: 25 Apr 2019 23:03

Tgt Ion: 117 Resp: 289672
 Ion Ratio Lower Upper
 117 100
 82 55.1 45.3 67.9
 119 31.6 25.4 38.0

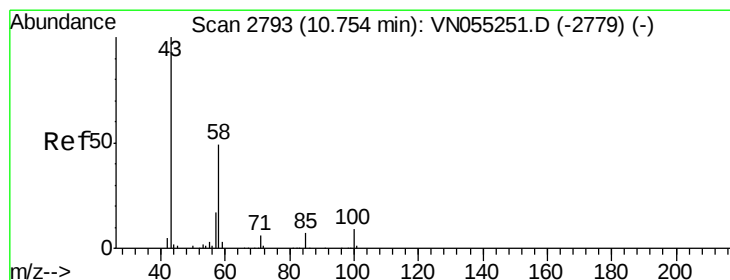
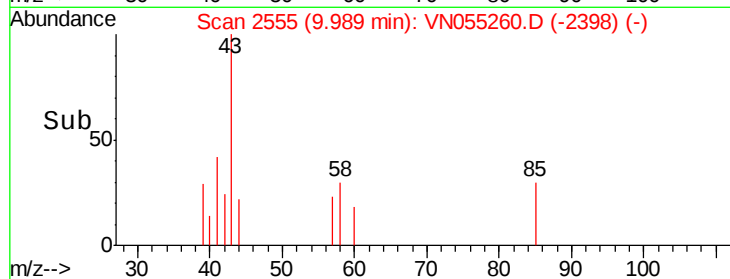
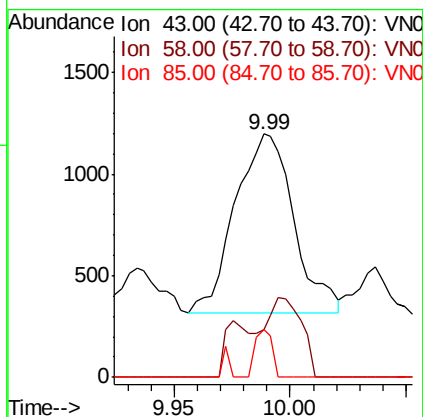
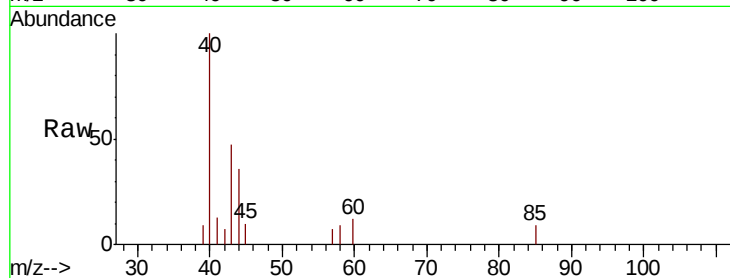




#58
4-Methyl-2-Pentanone
Concen: 0.341 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN055260.D
Acq: 25 Apr 2019 23:03

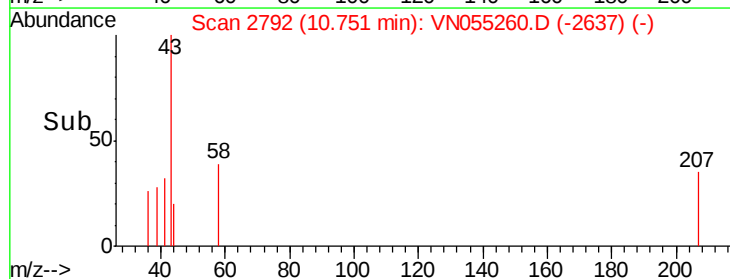
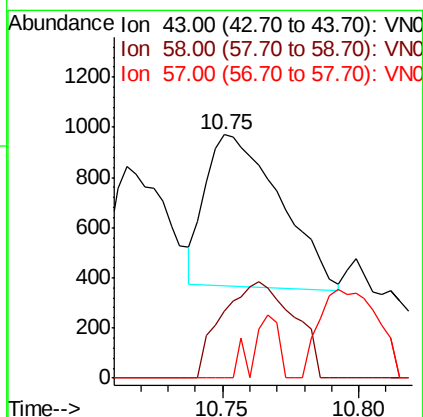
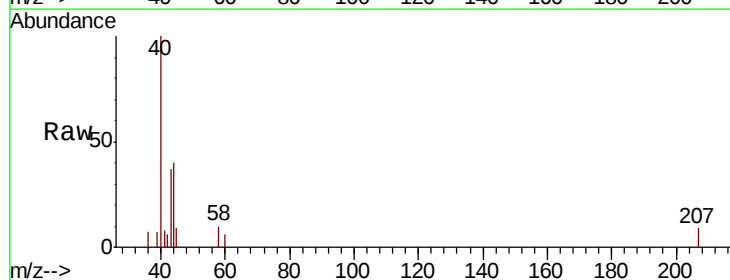
Instrument :
MSVOA_N
ClientSampled :
55-ST-10

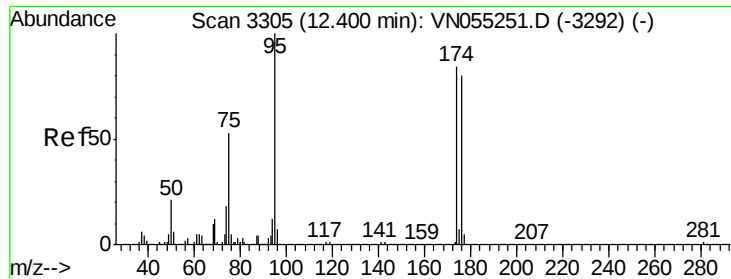
Tot Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
58 26.9 28.6 43.0#
85 8.0 11.4 17.2#



#59
2-Hexanone
Concen: 0.397 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN055260.D
Acq: 25 Apr 2019 23:03

Tgt Ion: 43 Resp: 1150
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6#
57 2.7 13.4 20.2#





#60

4-Bromofluorobenzene

Concen: 0.397 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055260.D

Acq: 25 Apr 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

55-ST-10

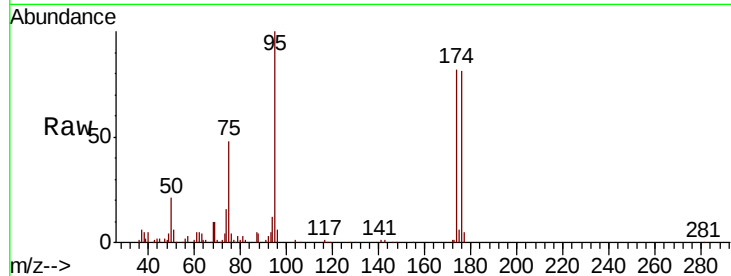
Tot Ion: 95 Resp: 95570

Ion Ratio Lower Upper

95 100

174 85.0 68.1 102.1

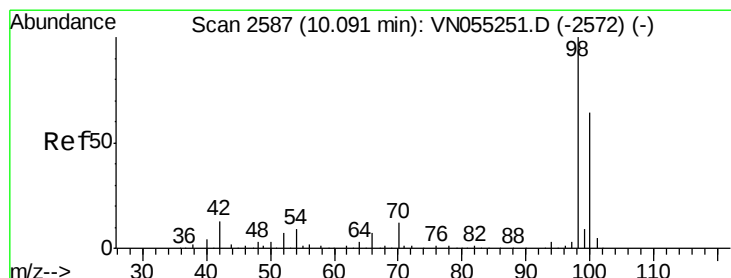
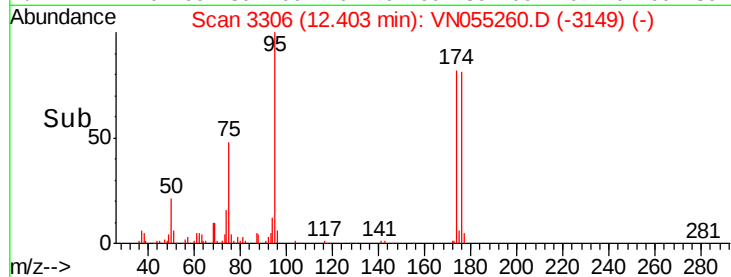
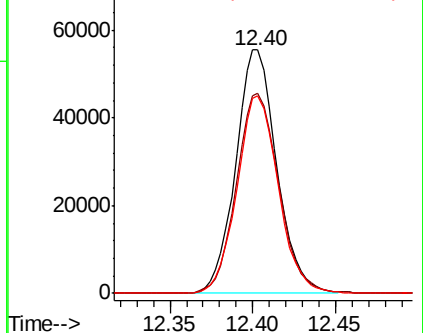
176 81.6 65.8 98.6



Abundance Ion 95.00 (94.70 to 95.70): VN055260.D (-3149) (-)

Ion 174.00 (173.70 to 174.70): VN055260.D (-3149) (-)

Ion 176.00 (175.70 to 176.70): VN055260.D (-3149) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055260.D

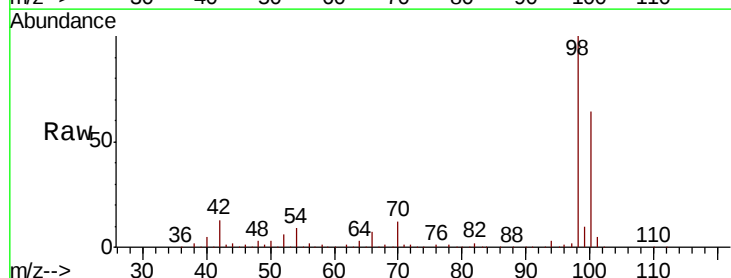
Acq: 25 Apr 2019 23:03

Tgt Ion: 98 Resp: 427707

Ion Ratio Lower Upper

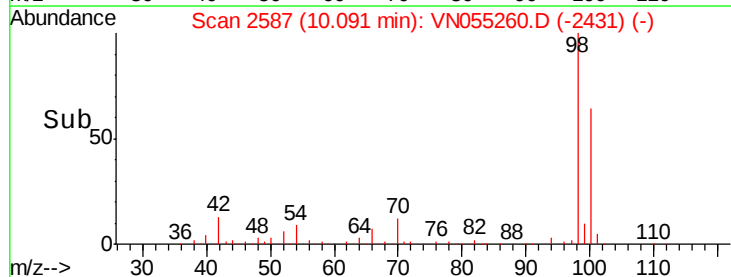
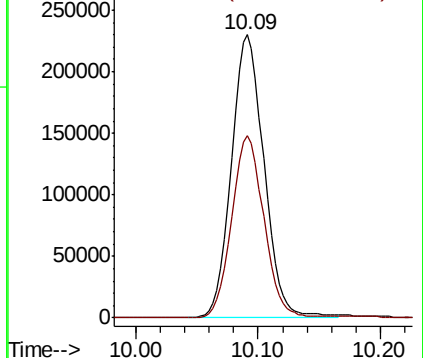
98 100

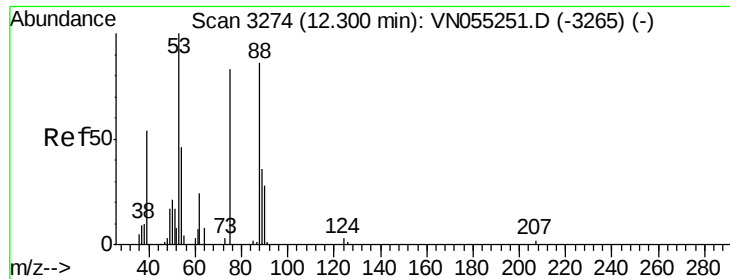
100 63.4 50.0 75.0



Abundance Ion 98.00 (97.70 to 98.70): VN055260.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN055260.D (-2431) (-)

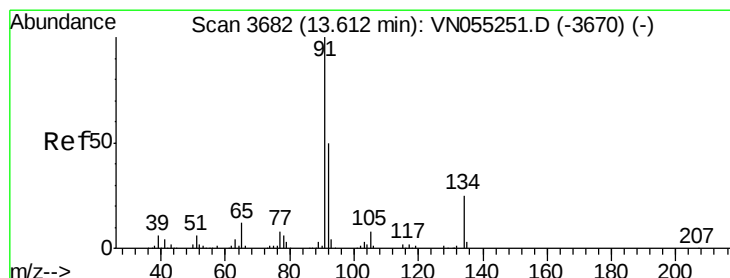
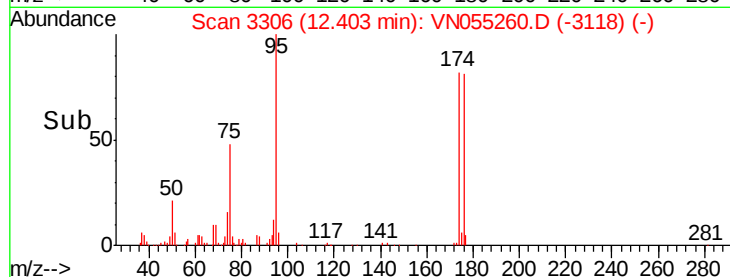
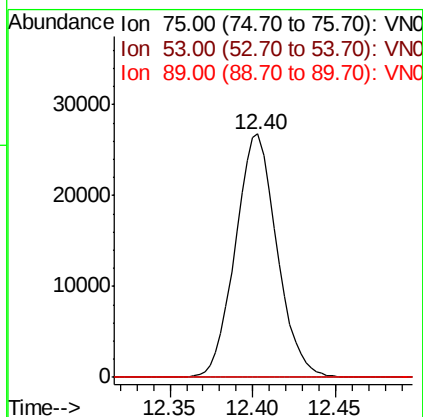
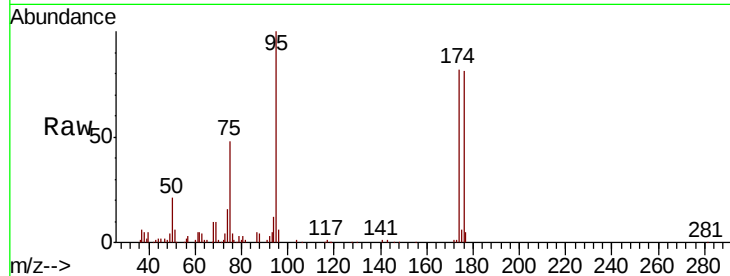




#77
t-1,4-Dichloro-2-butene
Concen: 43.844 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN055260.D
Acq: 25 Apr 2019 23:03

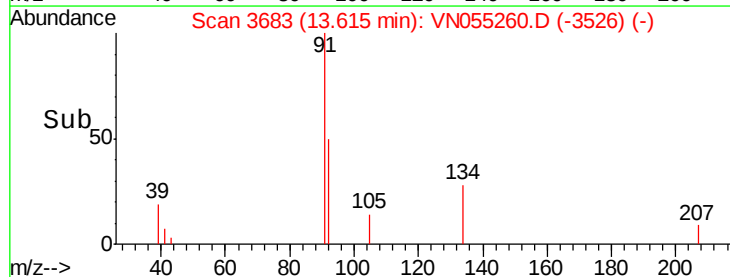
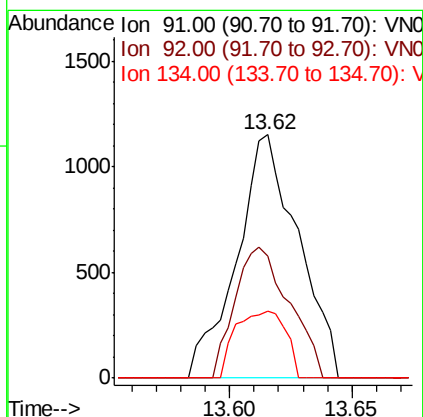
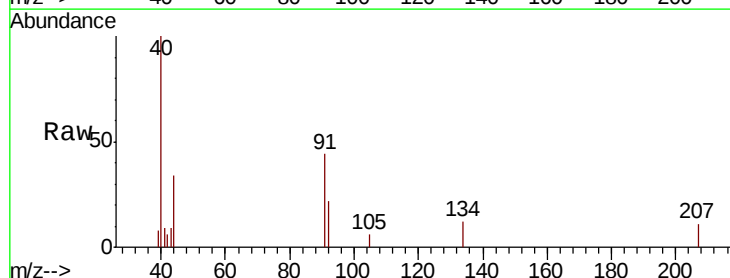
Instrument :
MSVOA_N
ClientSampleId :
55-ST-10

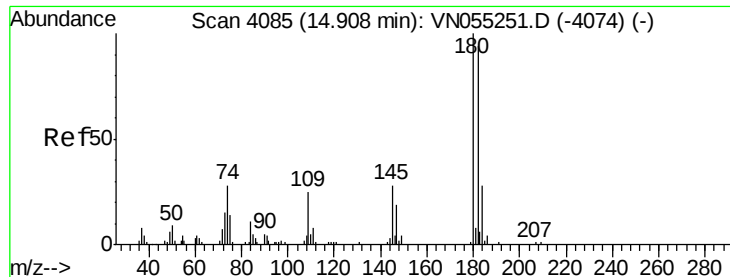
Tot Ion: 75 Resp: 46724
Ion Ratio Lower Upper
75 100
53 0.0 59.5 178.5#
89 0.0 23.1 69.2#



#85
n-Butylbenzene
Concen: 0.202 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055260.D
Acq: 25 Apr 2019 23:03

Tgt Ion: 91 Resp: 2005
Ion Ratio Lower Upper
91 100
92 47.7 0.0 102.8
134 22.3 0.0 50.0

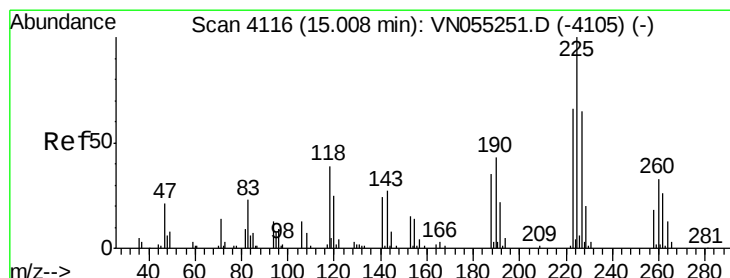
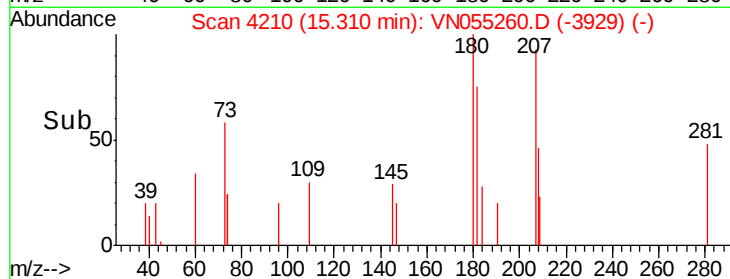
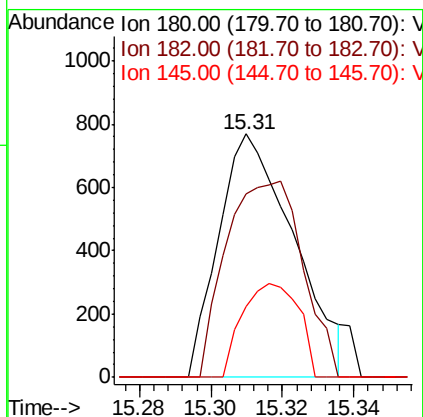
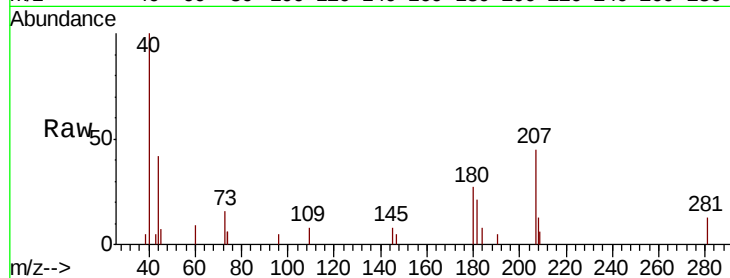




#89
 1,2,4-Trichlorobenzene
 Concen: 0.437 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.40 min
 Lab File: VN055260.D
 Acq: 25 Apr 2019 23:03

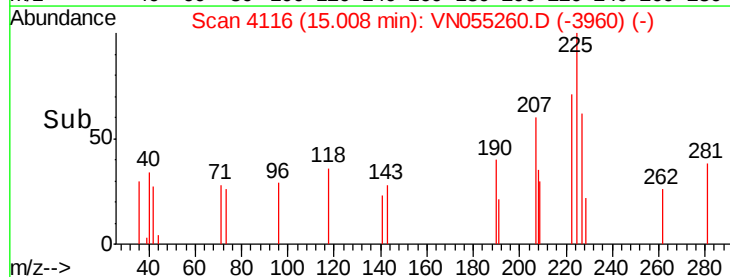
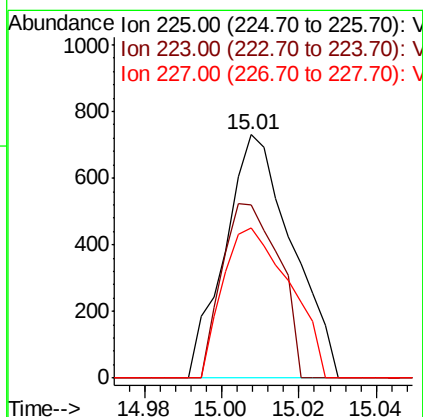
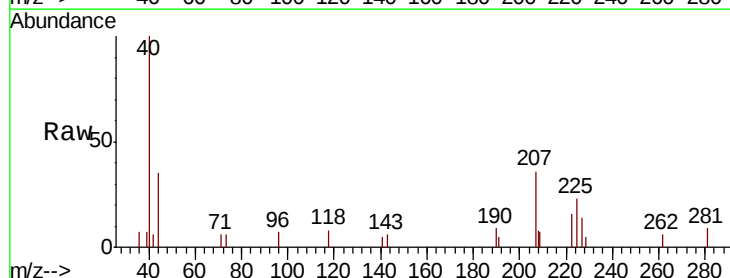
Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-10

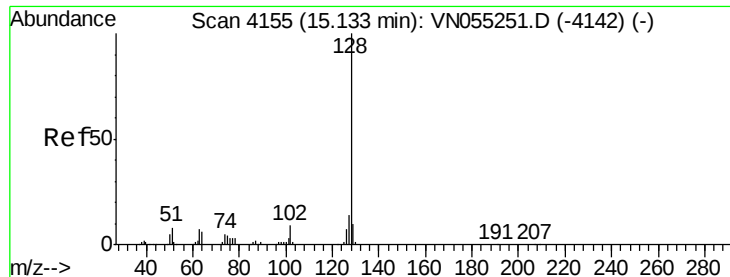
Tot Ion:180 Resp: 1119
 Ion Ratio Lower Upper
 180 100
 182 82.0 74.8 112.2
 145 28.9 23.2 34.8



#90
 Hexachlorobutadiene
 Concen: 0.406 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055260.D
 Acq: 25 Apr 2019 23:03

Tgt Ion:225 Resp: 879
 Ion Ratio Lower Upper
 225 100
 223 60.8 0.0 125.2
 227 61.9 0.0 128.4





#91

Naphthalene

Concen: 0.416 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055260.D

Acq: 25 Apr 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

55-ST-10

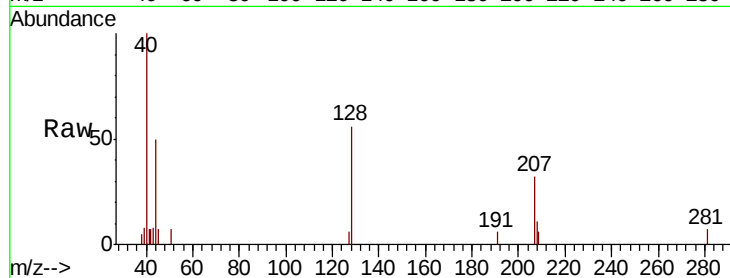
Tot Ion:128 Resp: 2458

Ion Ratio Lower Upper

128 100

127 2.7 10.6 16.0#

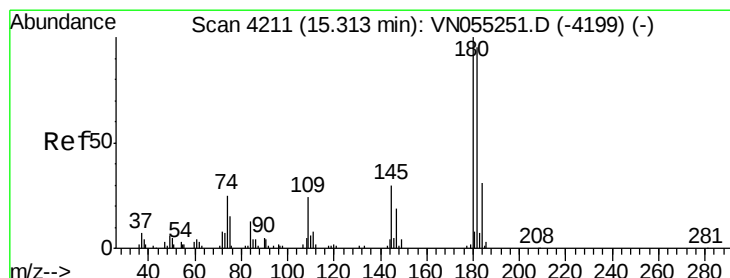
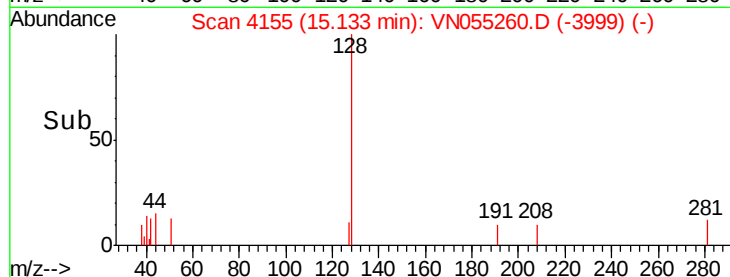
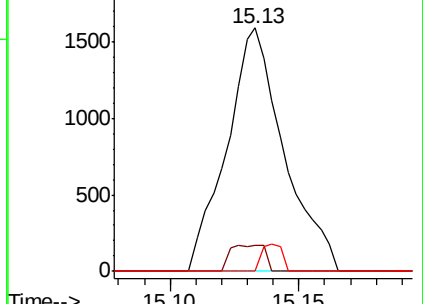
129 3.9 8.0 12.0#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.419 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN055260.D

Acq: 25 Apr 2019 23:03

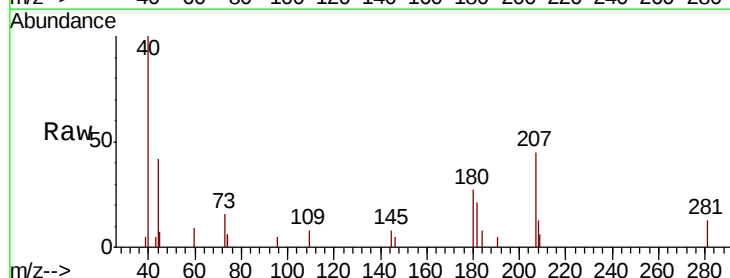
Tgt Ion:180 Resp: 1119

Ion Ratio Lower Upper

180 100

182 82.0 0.0 188.0

145 28.9 0.0 60.0



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

