

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081219\
 Data File : VN057232.D
 Acq On : 12 Aug 2019 22:07
 Operator : JC/SP
 Sample : K4229-31
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A3-(0)

Quant Time: Aug 13 01:49:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

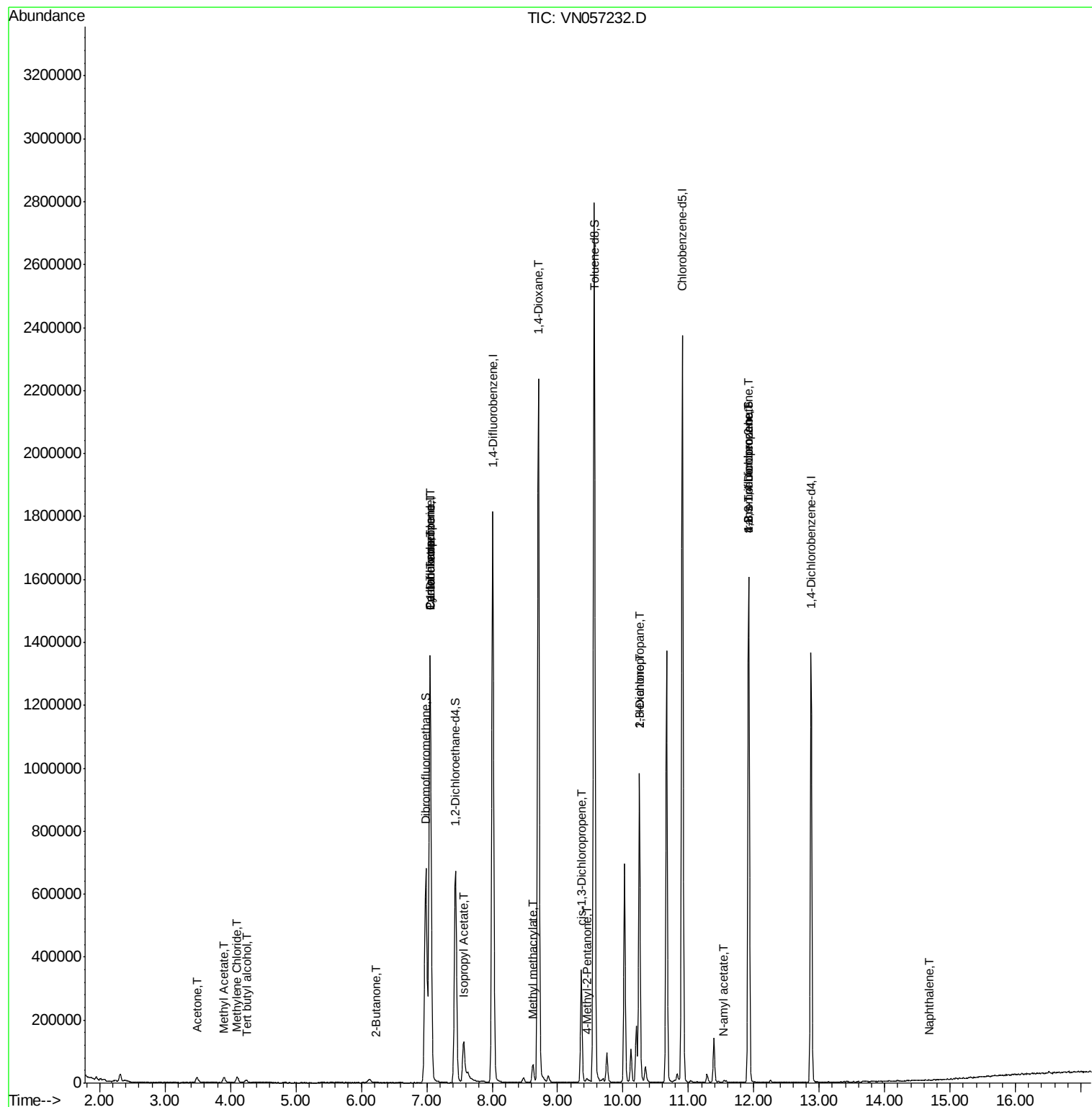
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1292024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1816879	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1522931	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	410013	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	602519	45.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.68%	
35) Dibromofluoromethane	6.99	113	548246	48.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.18%	
50) Toluene-d8	9.56	98	2097204	48.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.16%	
62) 4-Bromofluorobenzene	11.92	95	571035	40.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.26%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.25	59	7577	4.007	ug/l #	73
16) Acetone	3.48	43	24018	5.985	ug/l	98
18) Methyl Acetate	3.90	43	29571	1.840	ug/l	98
20) Methylene Chloride	4.10	84	12488	0.943	ug/l	95
25) 2-Butanone	6.22	43	1539	0.251	ug/l #	87
31) Cyclohexane	7.06	56	18579	0.964	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	76306	5.101	ug/l #	48
38) Carbon Tetrachloride	7.05	117	107923	6.923	ug/l #	16
43) Isopropyl Acetate	7.56	43	169444	8.052	ug/l #	83
48) Methyl methacrylate	8.62	41	8589	0.866	ug/l #	10
49) 1,4-Dioxane	8.70	88	171	0.846	ug/l #	1
51) 4-Methyl-2-Pentanone	9.45	43	8639	0.705	ug/l	89
54) cis-1,3-Dichloropropene	9.36	75	72812	3.993	ug/l #	62
57) 1,3-Dichloropropane	10.25	76	10625	0.557	ug/l #	42
59) 2-Hexanone	10.25	43	134267	16.198	ug/l #	50
73) Isopropylbenzene	11.77	105	75	Below Cal	#	48
74) N-amyl acetate	11.54	43	4871	0.469	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.92	83	284	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	259610	31.334	ug/l #	100
79) 2-Chlorotoluene	12.26	91	105	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	259610	93.099	ug/l #	14
83) tert-Butylbenzene	12.53	119	138	Below Cal	#	28
95) Naphthalene	14.67	128	113	2.813	ug/l #	69

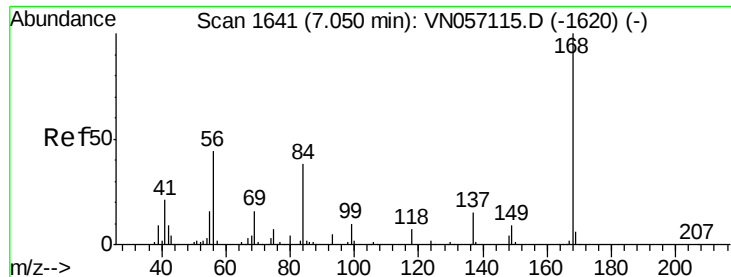
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN081219\
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Instrument :
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ClientSampleId :
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Quant Time: Aug 13 01:49:36 2019
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Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:49:25 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampled :

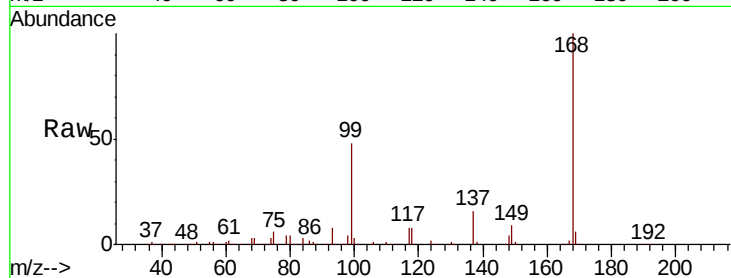
2S-A3-(0)

Tgt Ion:168 Resp: 1292024

Ion Ratio Lower Upper

168 100

99 47.9 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.05

600000

500000

400000

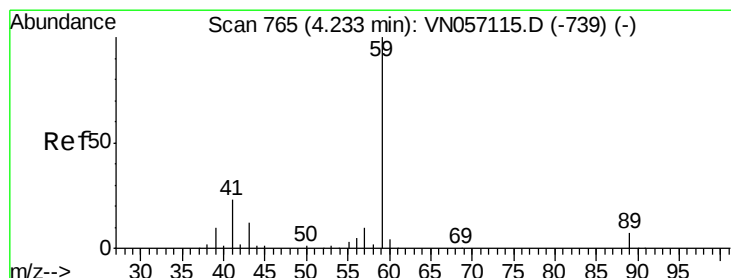
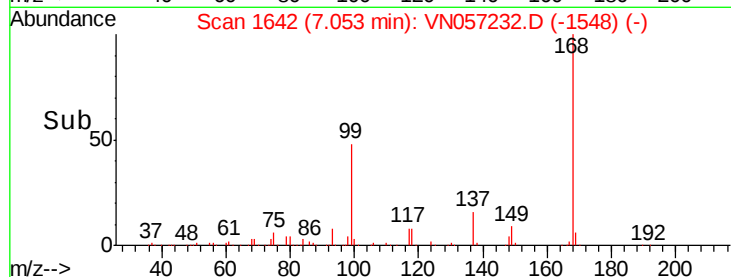
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 4.007 ug/l

RT: 4.25 min Scan# 769

Delta R.T. 0.01 min

Lab File: VN057232.D

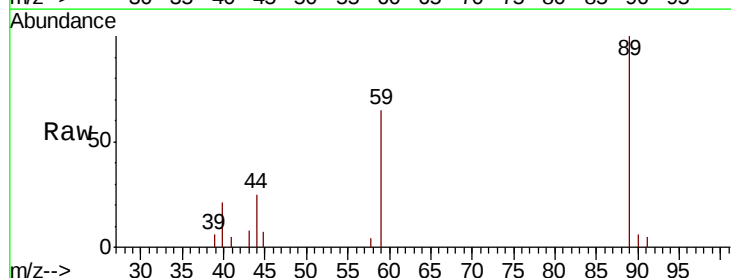
Acq: 12 Aug 2019 22:07

Tgt Ion: 59 Resp: 7577

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.25

2500

2000

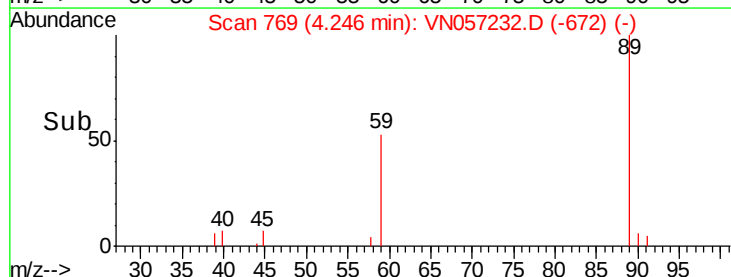
1500

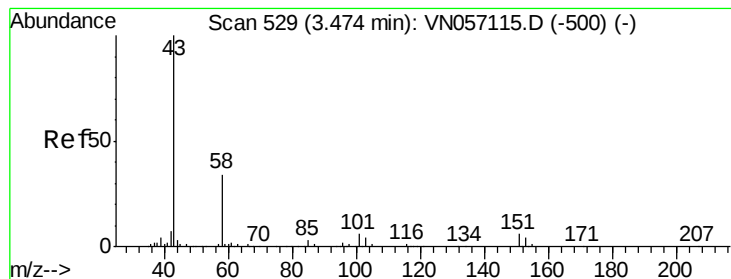
1000

500

0

Time--> 4.15 4.20 4.25 4.30





#16

Acetone

Concen: 5.985 ug/l

RT: 3.48 min Scan# 532

Delta R.T. 0.01 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampled :

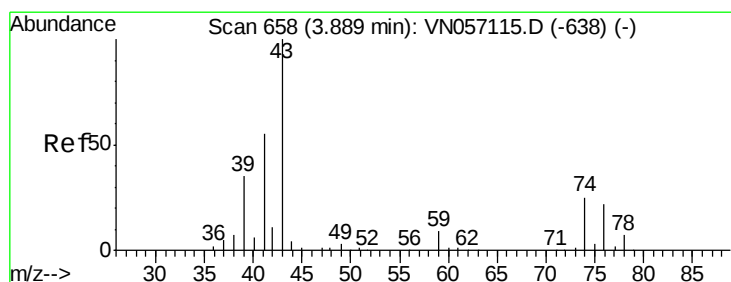
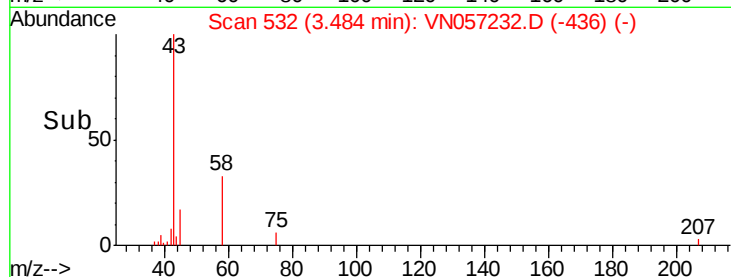
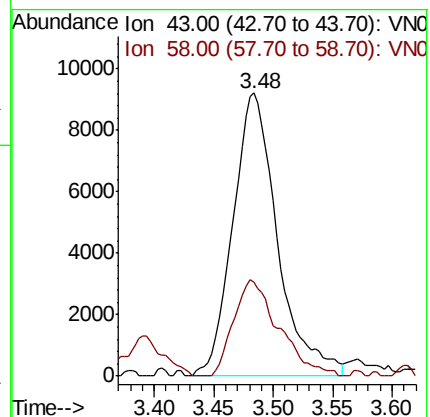
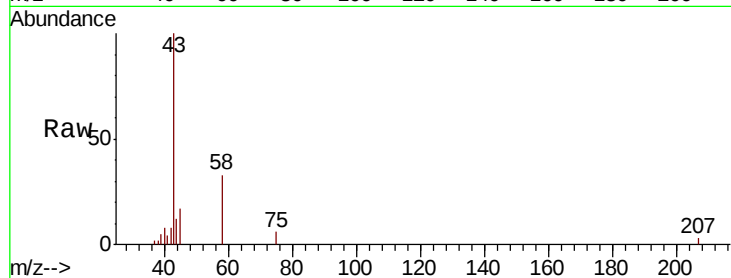
2S-A3-(0)

Tgt Ion: 43 Resp: 24018

Ion Ratio Lower Upper

43 100

58 33.2 27.4 41.2



#18

Methyl Acetate

Concen: 1.840 ug/l

RT: 3.90 min Scan# 660

Delta R.T. 0.01 min

Lab File: VN057232.D

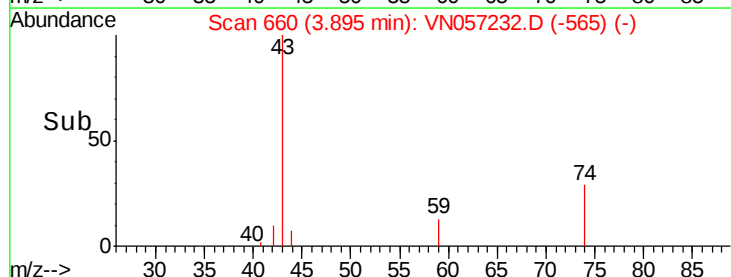
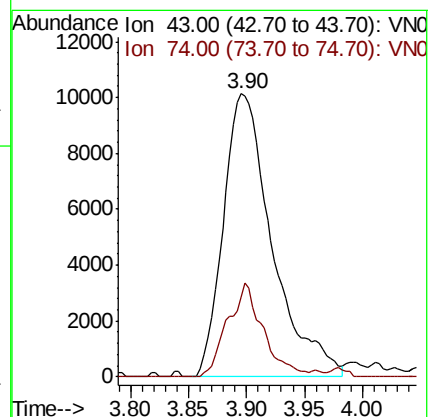
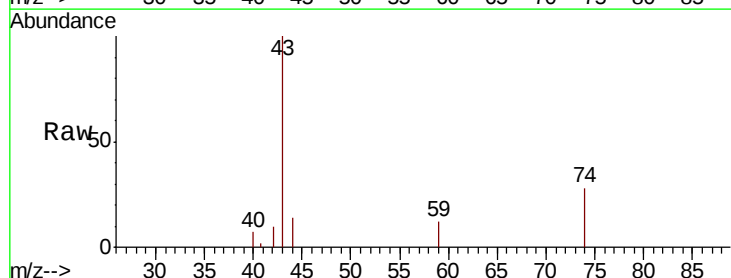
Acq: 12 Aug 2019 22:07

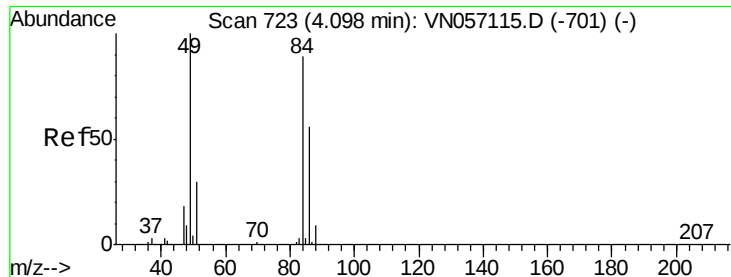
Tgt Ion: 43 Resp: 29571

Ion Ratio Lower Upper

43 100

74 24.2 20.2 30.4

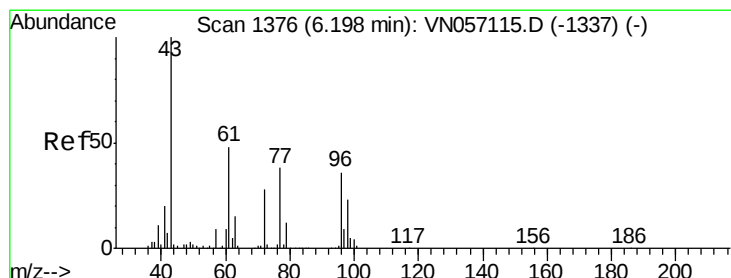
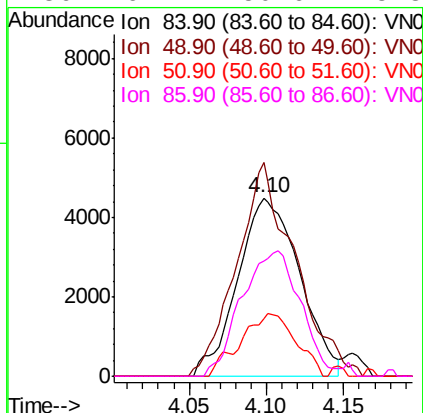
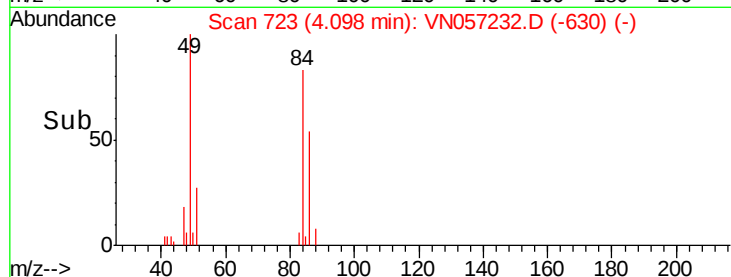
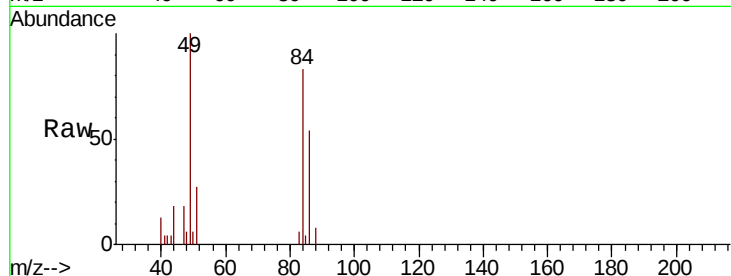




#20
Methylene Chloride
Concen: 0.943 ug/l
RT: 4.10 min Scan# 723
Delta R.T. -0.00 min
Lab File: VN057232.D
Acq: 12 Aug 2019 22:07

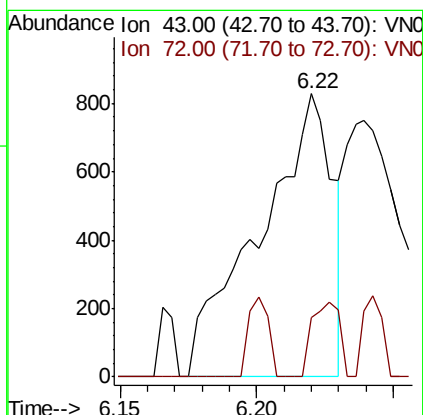
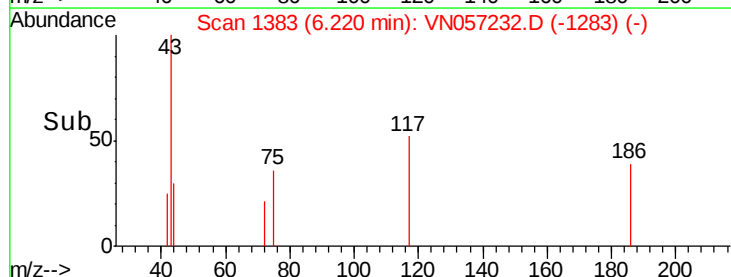
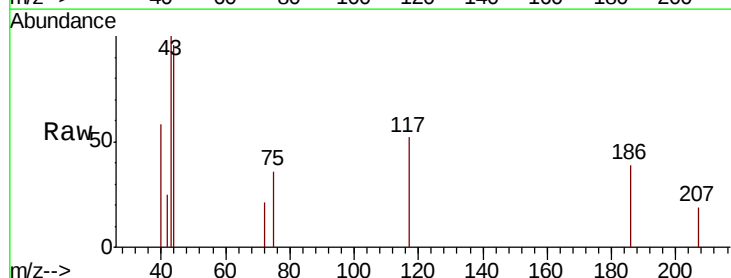
Instrument :
MSVOA_N
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2S-A3-(0)

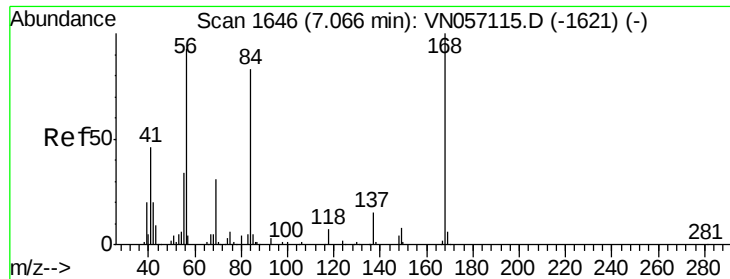
Tgt Ion:	84	Resp:	12488
Ion	Ratio	Lower	Upper
84	100		
49	119.8	89.5	134.3
51	32.5	27.2	40.8
86	64.7	50.6	75.8



#25
2-Butanone
Concen: 0.251 ug/l
RT: 6.22 min Scan# 1383
Delta R.T. 0.02 min
Lab File: VN057232.D
Acq: 12 Aug 2019 22:07

Tgt Ion:	43	Resp:	1539
Ion	Ratio	Lower	Upper
43	100		
72	20.8	22.2	33.4#

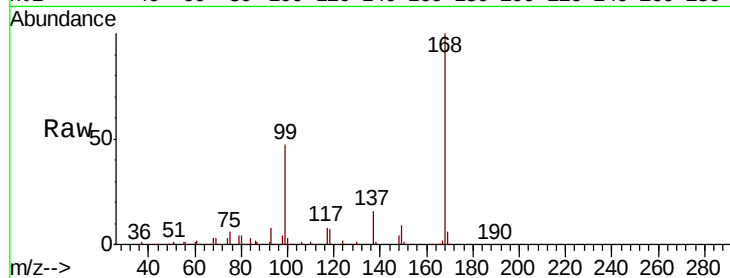




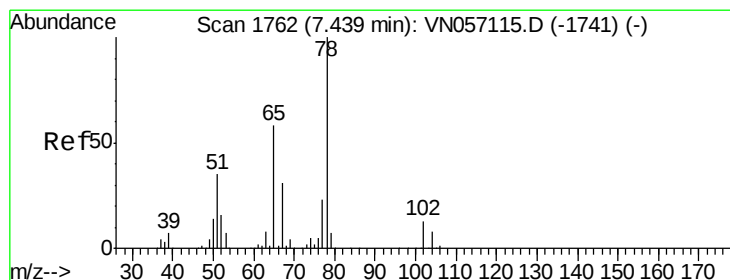
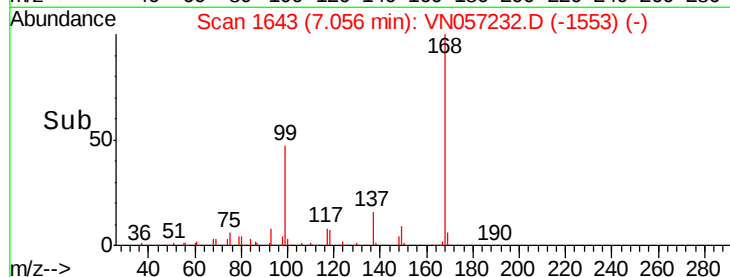
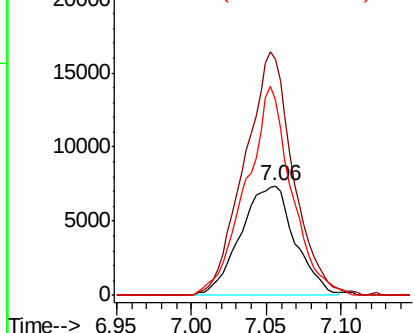
#31
Cyclohexane
Concen: 0.964 ug/l
RT: 7.06 min Scan# 1643
Delta R.T. -0.01 min
Lab File: VN057232.D
Acq: 12 Aug 2019 22:07

Instrument :
MSVOA_N
ClientSampled :
2S-A3-(0)

Tgt Ion: 56 Resp: 18579
Ion Ratio Lower Upper
56 100
69 216.2 26.9 40.3#
84 178.7 71.9 107.9#

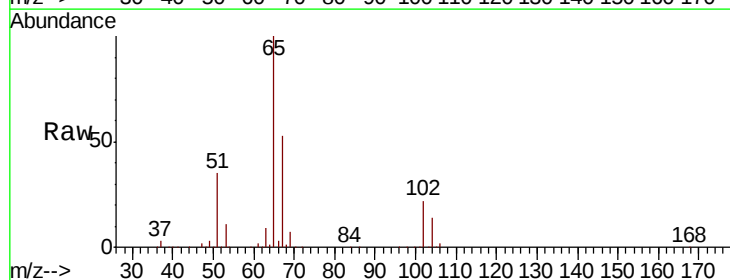


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

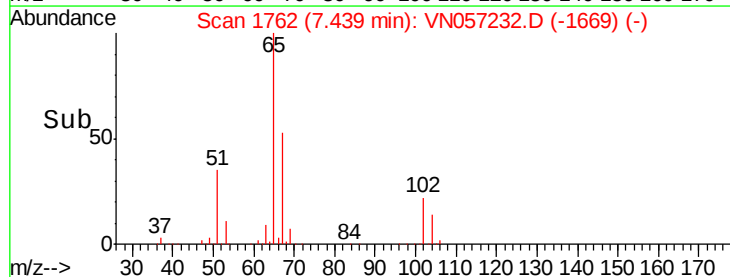
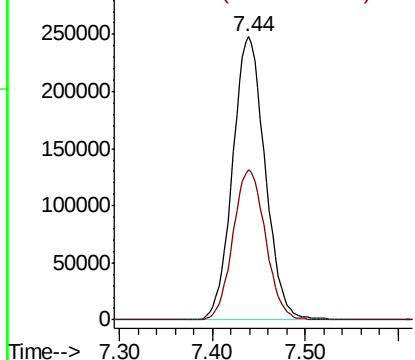


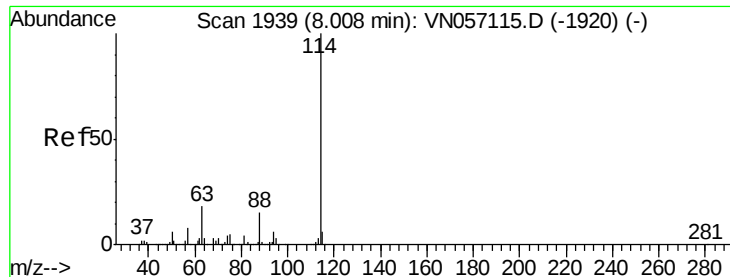
#33
1,2-Dichloroethane-d4
Concen: 45.345 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VN057232.D
Acq: 12 Aug 2019 22:07

Tgt Ion: 65 Resp: 602519
Ion Ratio Lower Upper
65 100
67 53.2 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

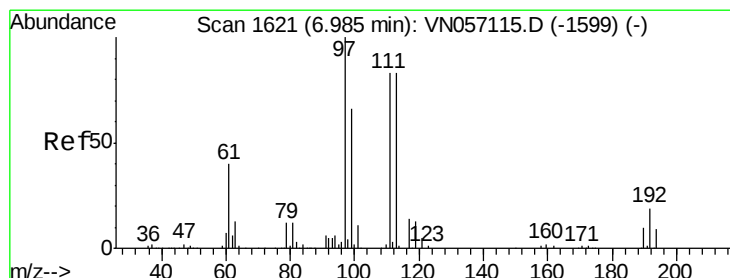
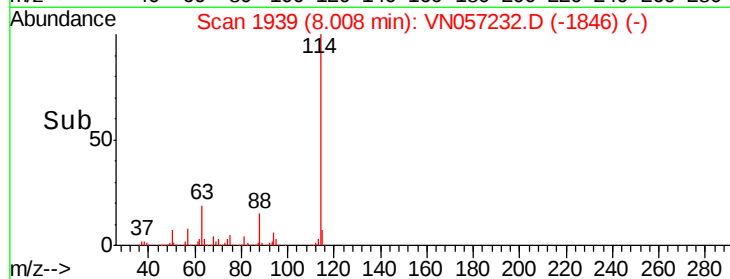
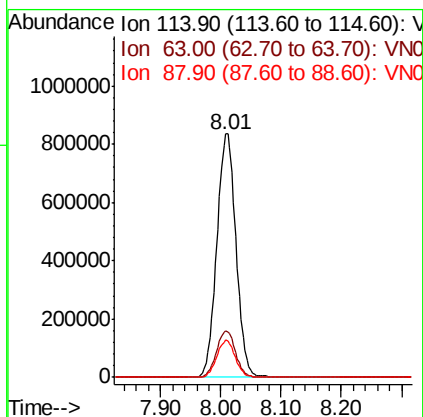
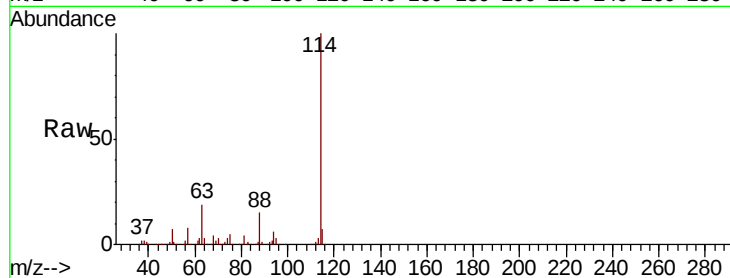




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

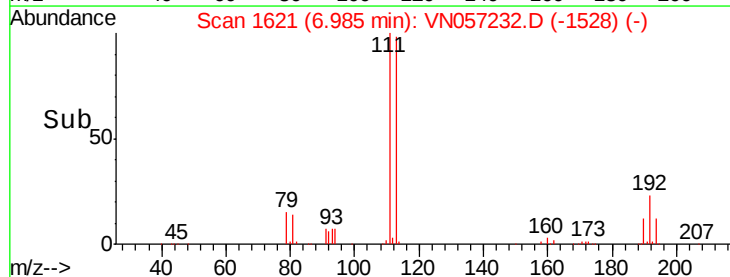
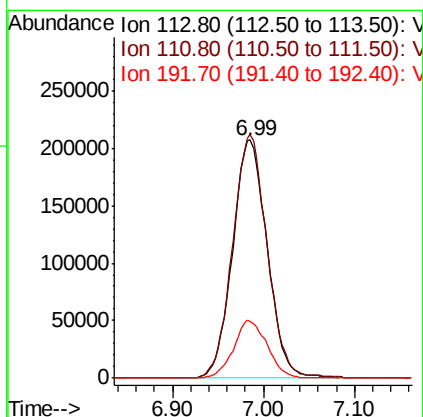
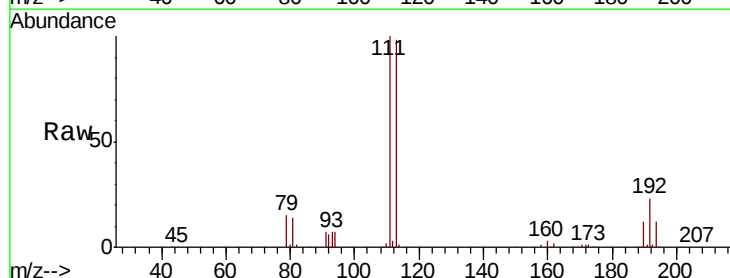
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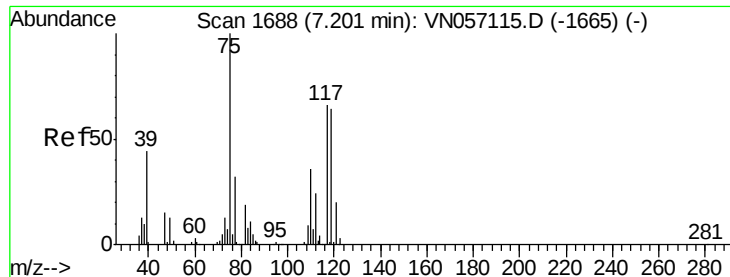
Tgt Ion:114 Resp: 1816879
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 36.2
 88 15.2 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 48.087 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

Tgt Ion:113 Resp: 548246
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.3 121.9
 192 23.7 19.0 28.4

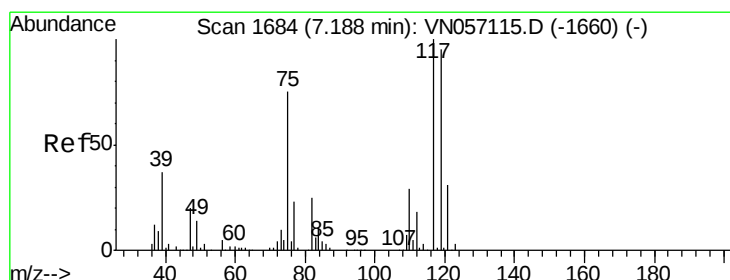
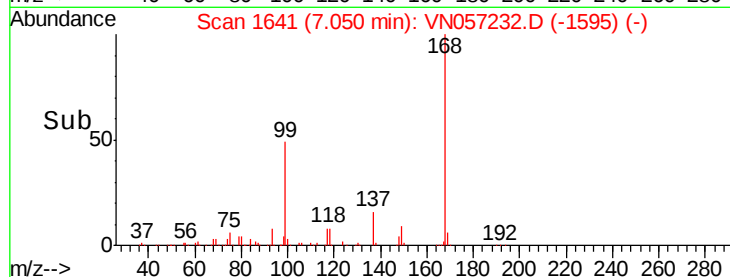
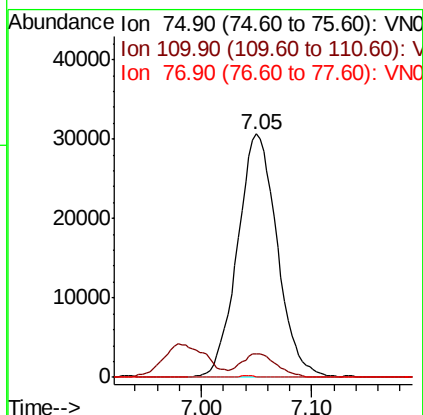
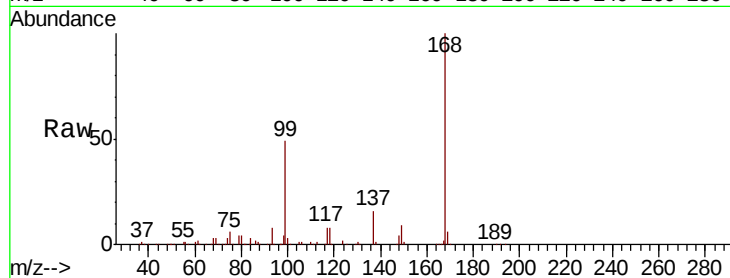




#36
 1,1-Dichloropropene
 Concen: 5.101 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.15 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

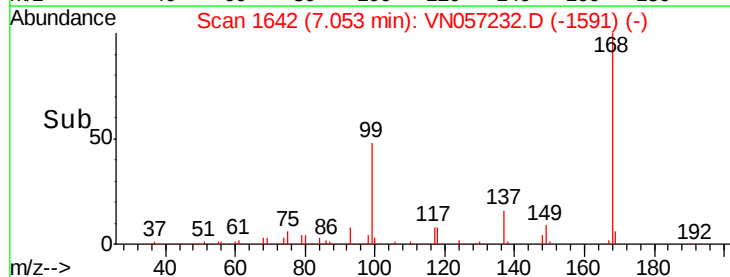
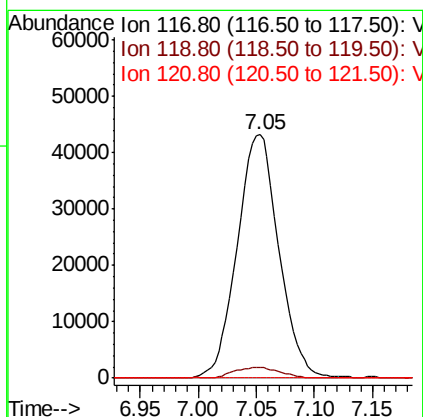
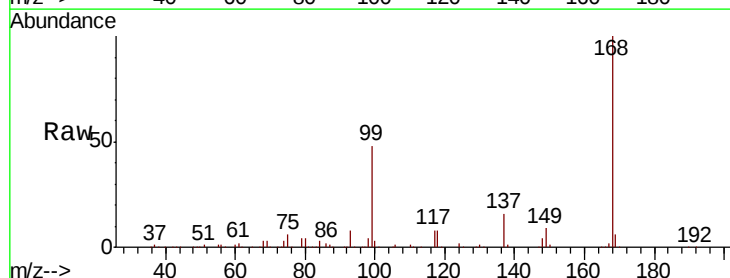
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 MSVOA_N
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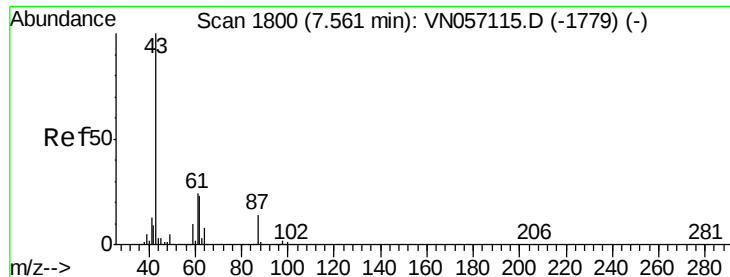
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.7	56.1#
77	0.2	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.923 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.14 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.8	113.6#
121	0.0	24.4	36.6#





#43

Isopropyl Acetate

Concen: 8.052 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

2S-A3-(0)

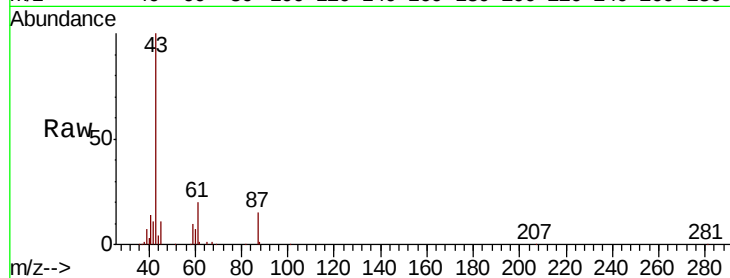
Tgt Ion: 43 Resp: 169444

Ion Ratio Lower Upper

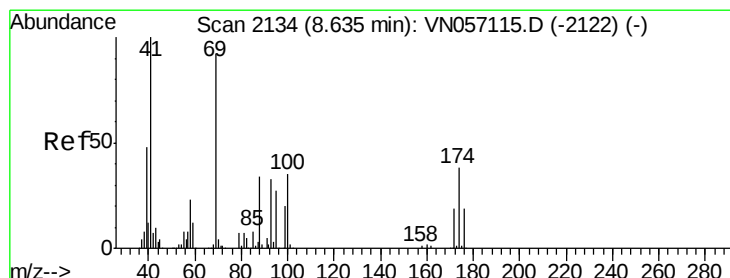
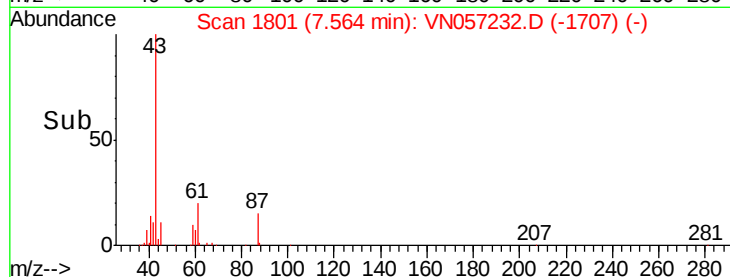
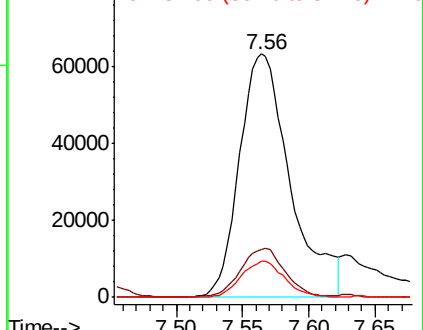
43 100

61 17.7 24.2 36.2#

87 12.7 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.866 ug/l

RT: 8.62 min Scan# 2129

Delta R.T. -0.02 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

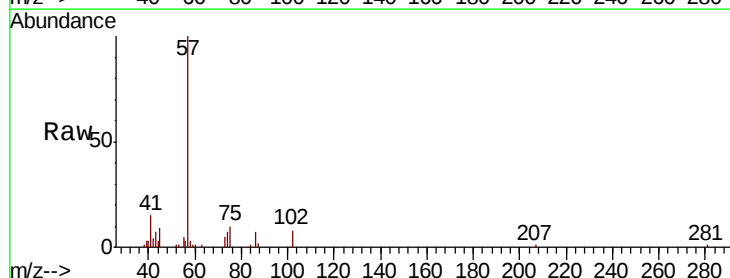
Tgt Ion: 41 Resp: 8589

Ion Ratio Lower Upper

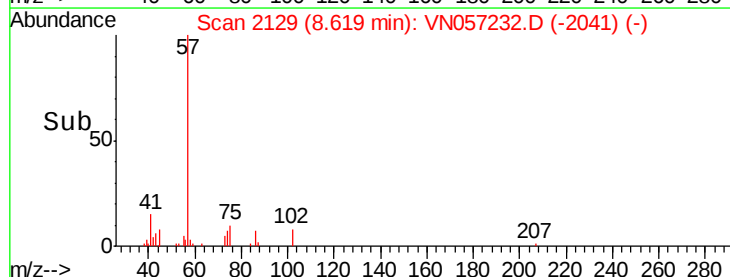
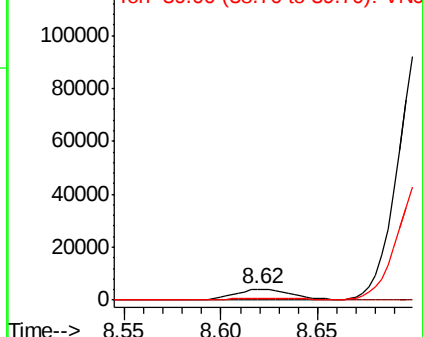
41 100

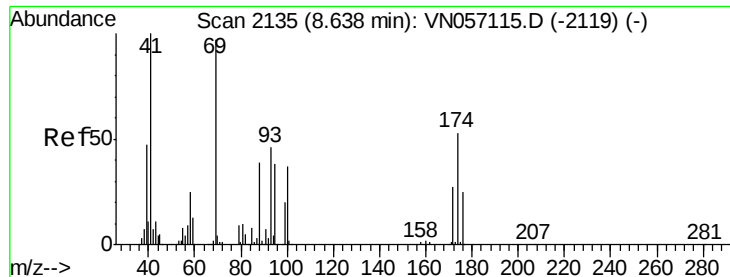
69 0.0 77.5 116.3#

39 0.0 39.8 59.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 0.846 ug/l

RT: 8.70 min Scan# 2153

Delta R.T. 0.06 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

2S-A3-(0)

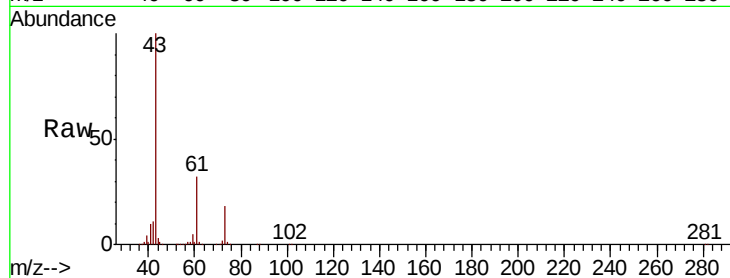
Tgt Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 1301304.1 21.7 32.5#

58 5986.0 51.1 76.7#

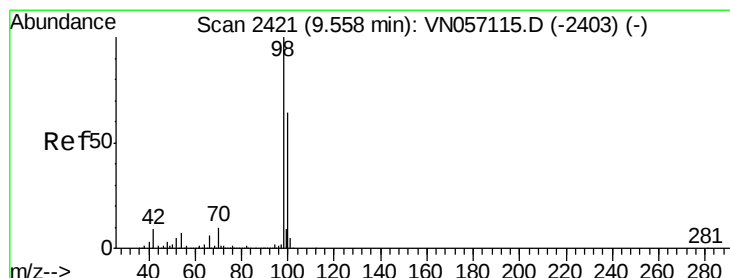
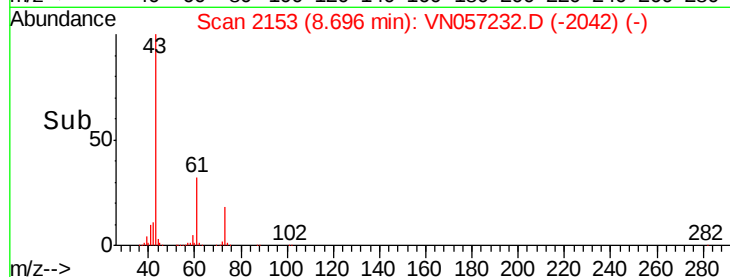
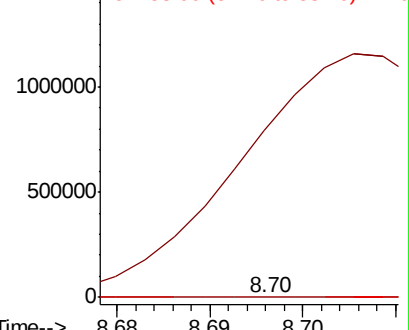


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.080 ug/l

RT: 9.56 min Scan# 2422

Delta R.T. 0.00 min

Lab File: VN057232.D

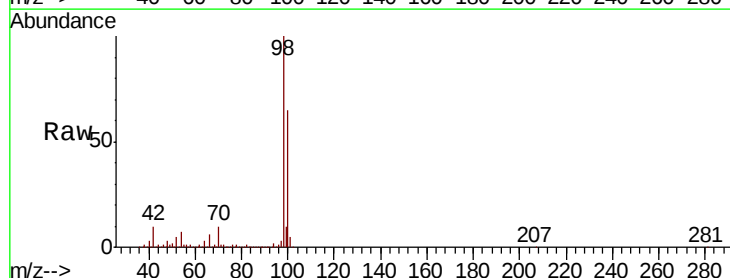
Acq: 12 Aug 2019 22:07

Tgt Ion: 98 Resp: 2097204

Ion Ratio Lower Upper

98 100

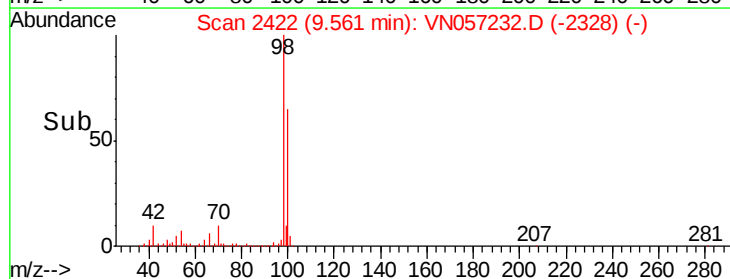
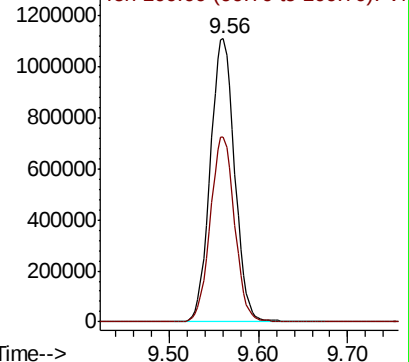
100 65.1 51.2 76.8

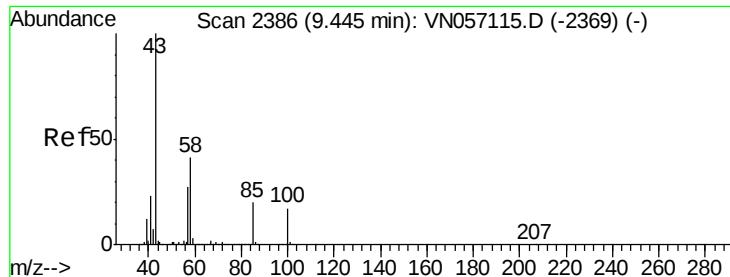


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.705 ug/l

RT: 9.45 min Scan# 2386

Delta R.T. -0.00 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

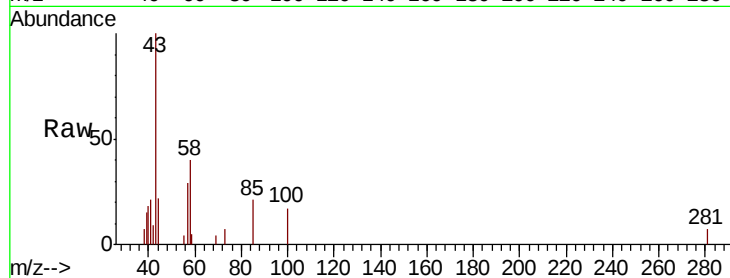
2S-A3-(0)

Tgt Ion: 43 Resp: 8639

Ion Ratio Lower Upper

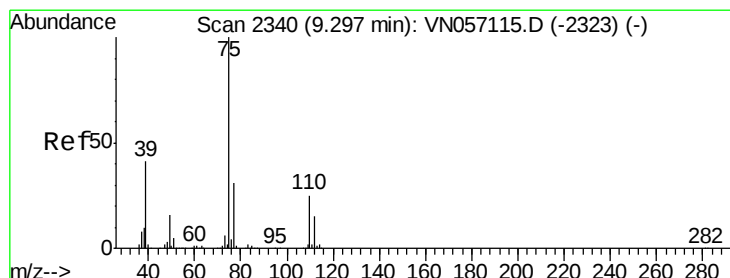
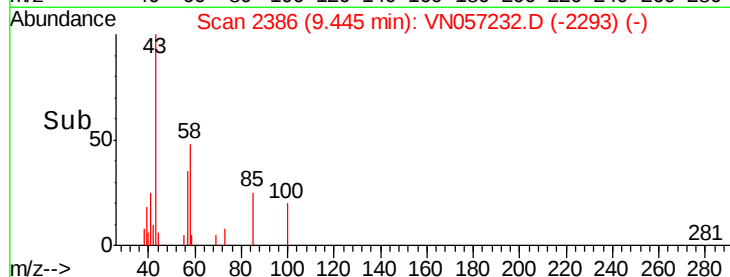
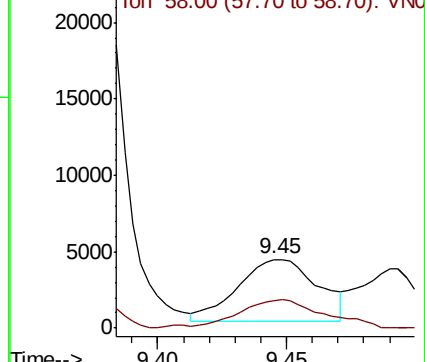
43 100

58 48.6 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 3.993 ug/l

RT: 9.36 min Scan# 2361

Delta R.T. 0.07 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

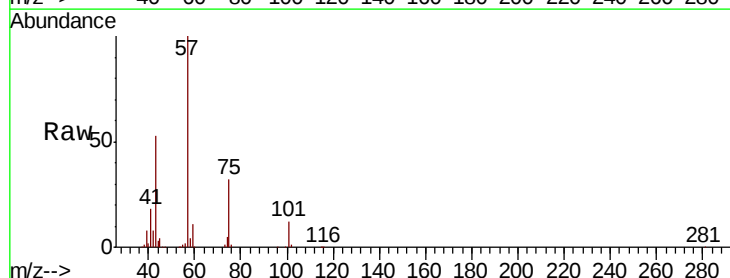
Tgt Ion: 75 Resp: 72812

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

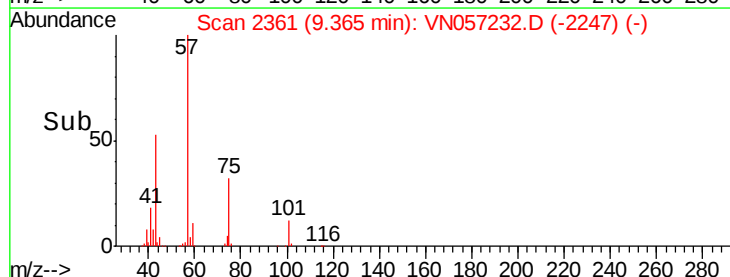
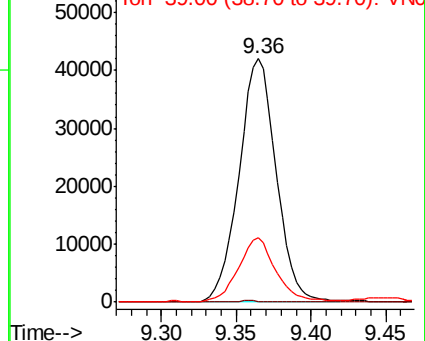
39 26.2 32.5 48.7#

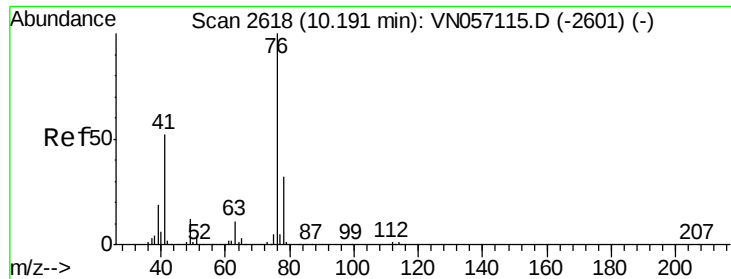


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

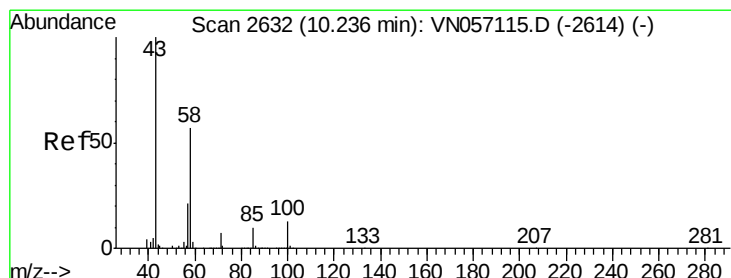
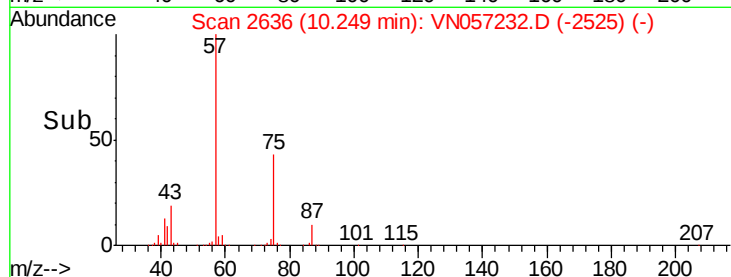
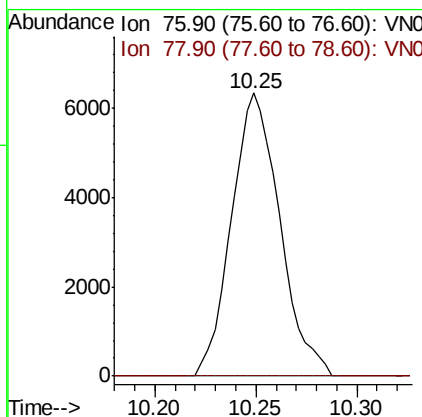
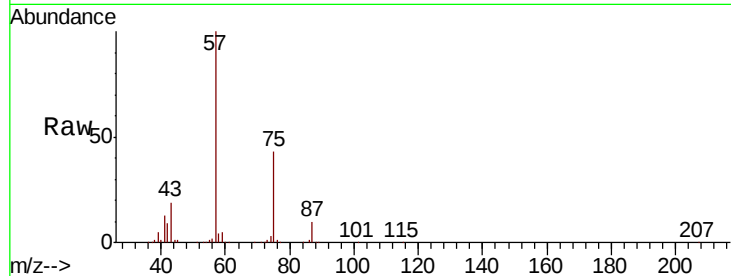




#57
 1,3-Dichloropropane
 Concen: 0.557 ug/l
 RT: 10.25 min Scan# 2636
 Delta R.T. 0.06 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

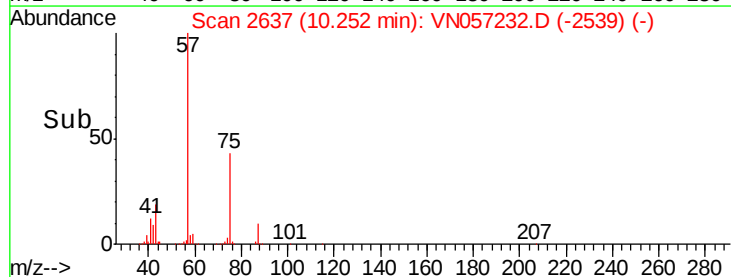
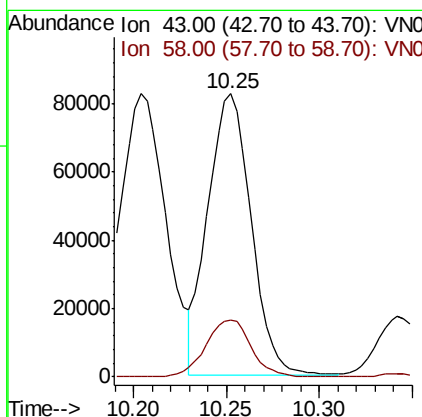
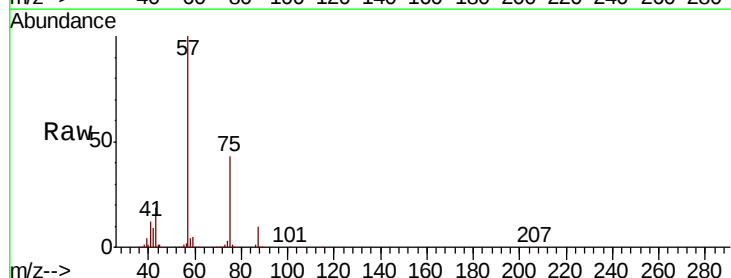
Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A3-(0)

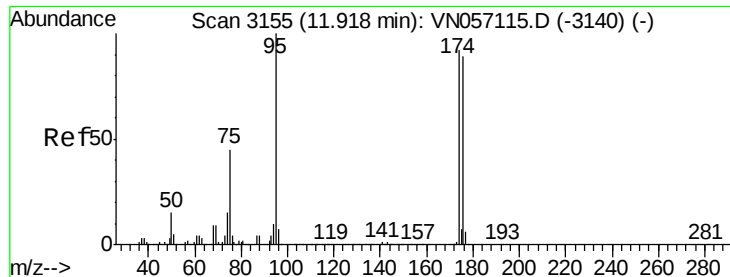
Tgt Ion: 76 Resp: 10625
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 16.198 ug/l
 RT: 10.25 min Scan# 2637
 Delta R.T. 0.02 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

Tgt Ion: 43 Resp: 134267
 Ion Ratio Lower Upper
 43 100
 58 21.0 29.2 87.6#





#62

4-Bromofluorobenzene

Concen: 40.630 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

2S-A3-(0)

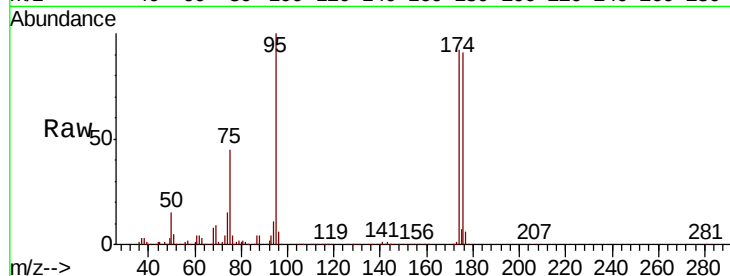
Tgt Ion: 95 Resp: 571035

Ion Ratio Lower Upper

95 100

174 94.3 0.0 185.0

176 92.4 0.0 181.2

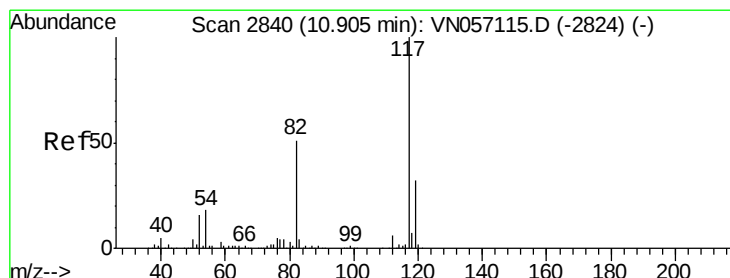
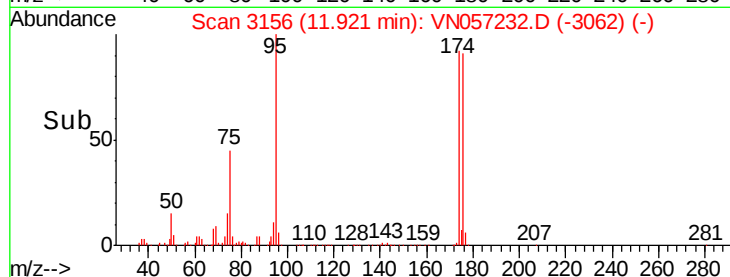


Abundance Ion 94.90 (94.60 to 95.60): VN057115.D (-3140) (-)

Ion 173.80 (173.50 to 174.50): VN057115.D (-3140) (-)

Ion 175.80 (175.50 to 176.50): VN057115.D (-3140) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

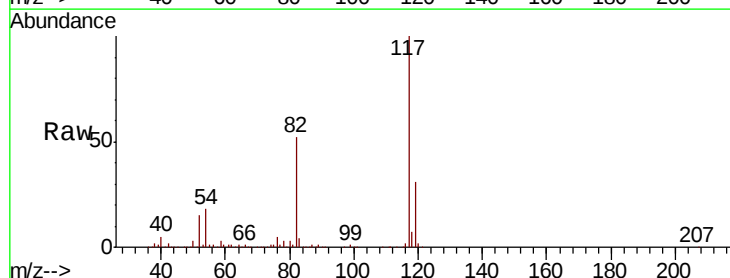
Tgt Ion: 117 Resp: 1522931

Ion Ratio Lower Upper

117 100

82 51.6 40.8 61.2

119 31.5 25.7 38.5

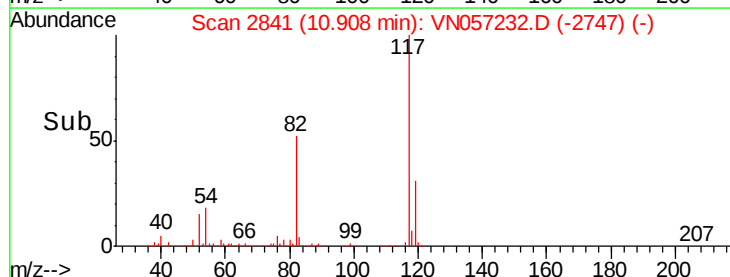


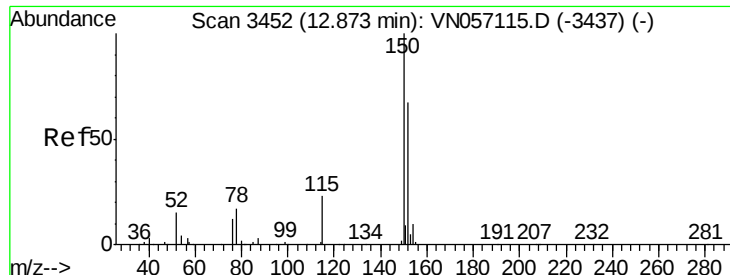
Abundance Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

Ion 82.00 (81.70 to 82.70): VN057115.D (-2824) (-)

Ion 118.90 (118.60 to 119.60): VN057115.D (-2824) (-)

Time-->

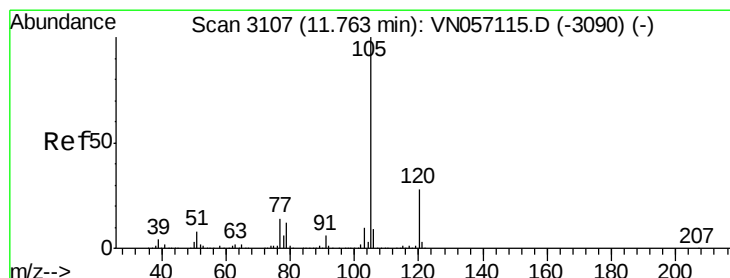
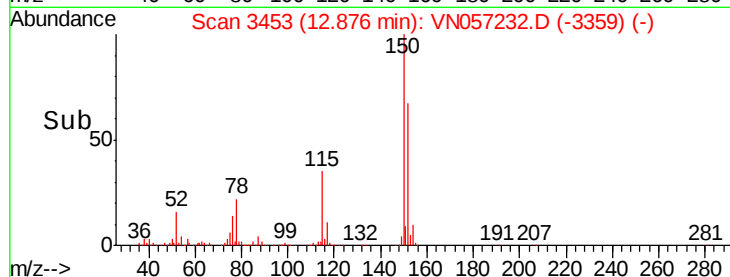
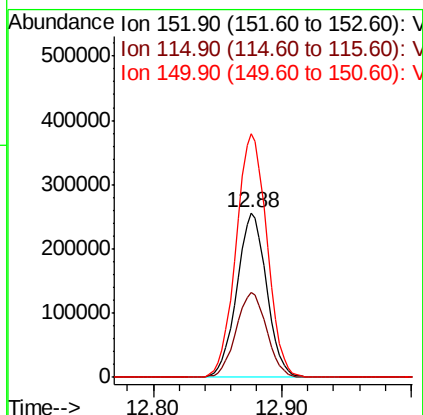
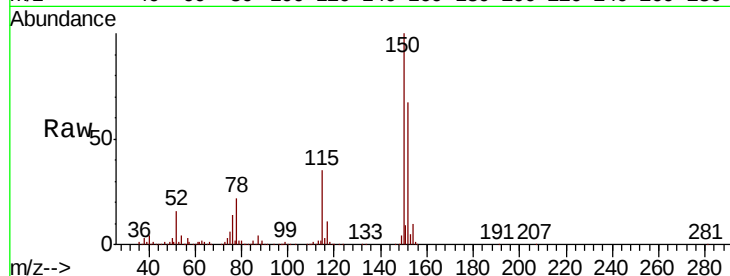




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.88 min Scan# 3453
 Delta R.T. 0.00 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

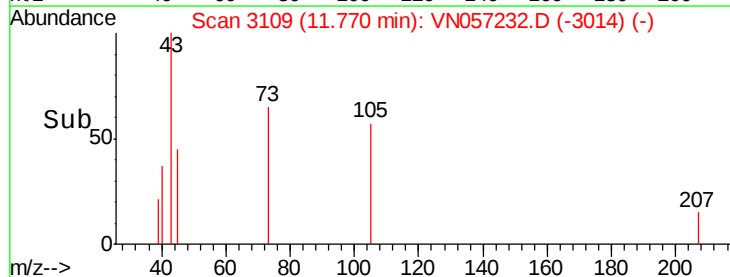
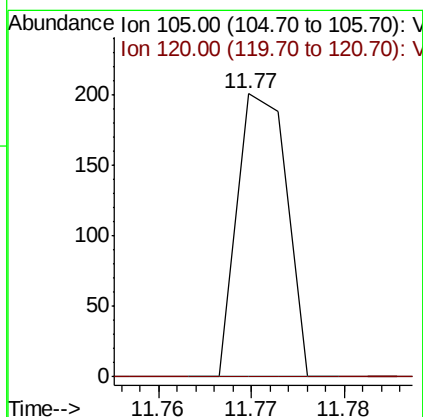
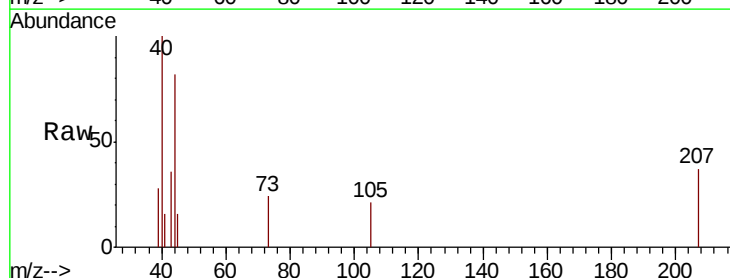
Instrument :
 MSVOA_N
 ClientSampled :
 2S-A3-(0)

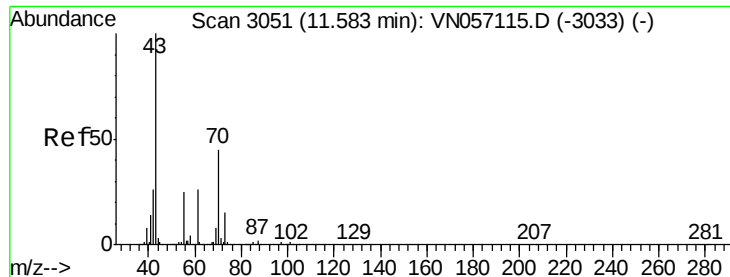
Tgt Ion:152 Resp: 410013
 Ion Ratio Lower Upper
 152 100
 115 53.4 27.5 82.5
 150 153.5 0.0 341.6



#73
 Isopropylbenzene
 Concen: Below Cal
 RT: 11.77 min Scan# 3109
 Delta R.T. 0.01 min
 Lab File: VN057232.D
 Acq: 12 Aug 2019 22:07

Tgt Ion:105 Resp: 75
 Ion Ratio Lower Upper
 105 100
 120 0.0 13.7 41.0#





#74

N-ethyl acetate

Concen: 0.469 ug/l

RT: 11.54 min Scan# 3037

Delta R.T. -0.05 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

2S-A3-(0)

Tgt Ion: 43 Resp: 4871

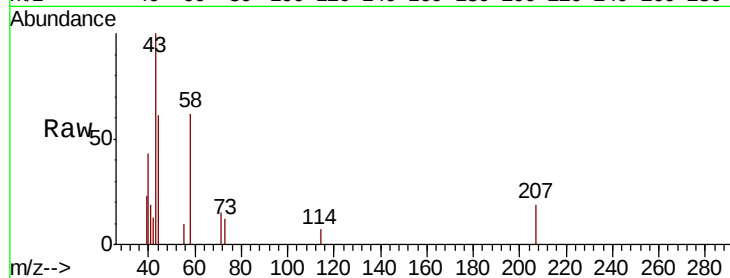
Ion Ratio Lower Upper

43 100

70 0.0 36.8 55.2#

55 8.2 20.6 31.0#

61 0.0 21.0 31.4#

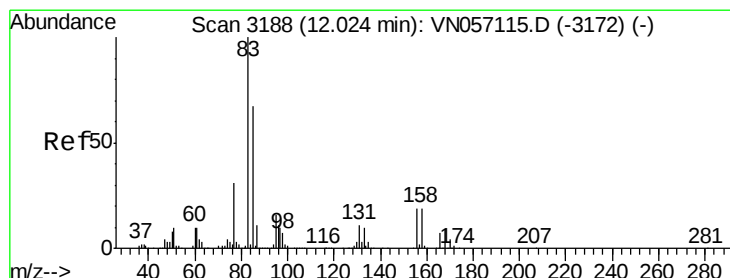
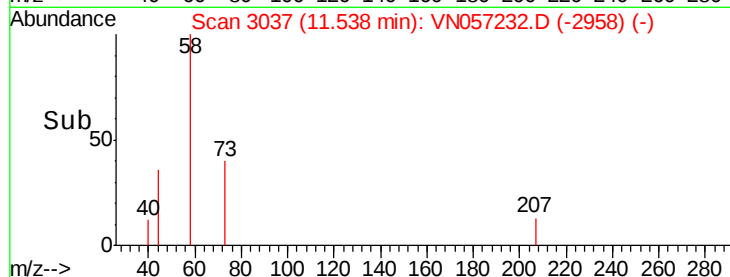
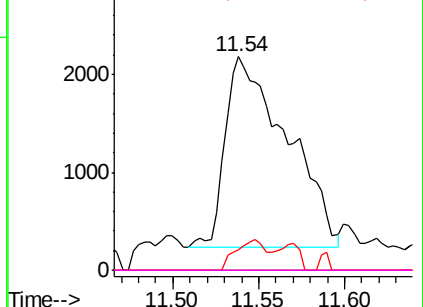


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.92 min Scan# 3157

Delta R.T. -0.10 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

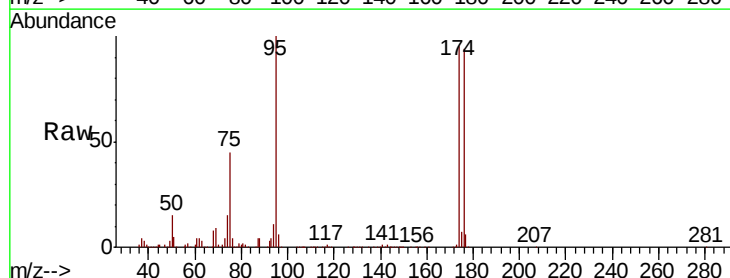
Tgt Ion: 83 Resp: 284

Ion Ratio Lower Upper

83 100

131 148.9 5.5 16.4#

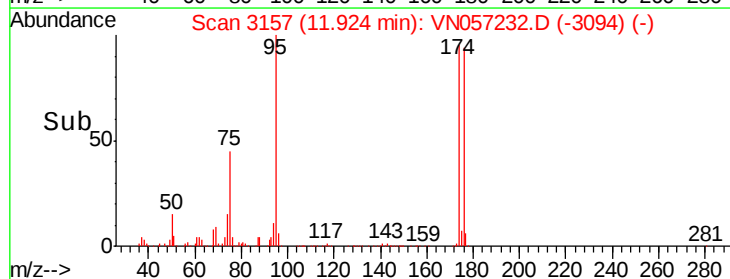
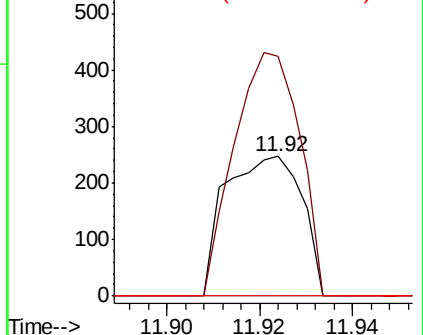
85 0.0 32.4 97.0#

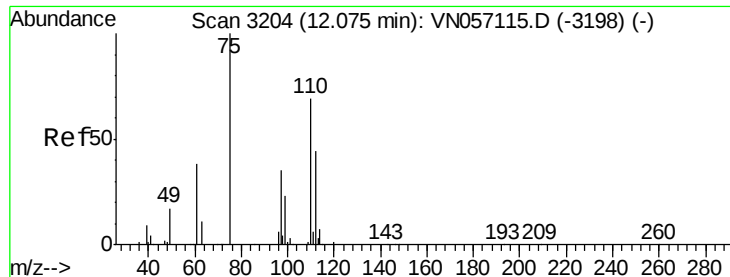


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 31.334 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

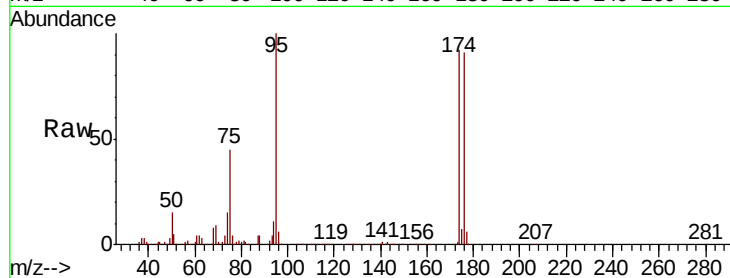
2S-A3-(0)

Tgt Ion: 75 Resp: 259610

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

150000

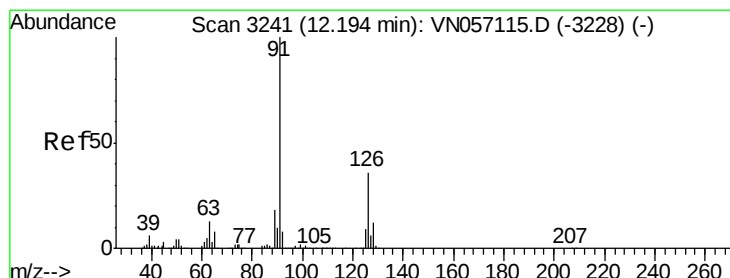
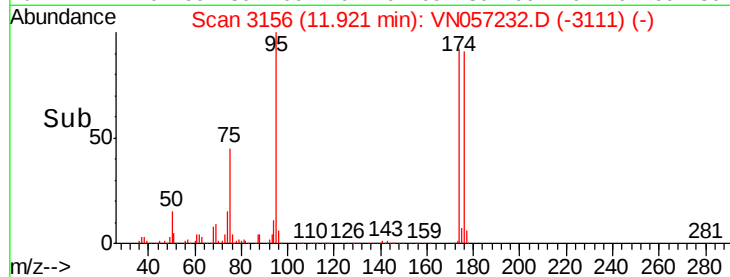
100000

50000

0

11.85 11.90 11.95 12.00

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.26 min Scan# 3260

Delta R.T. 0.06 min

Lab File: VN057232.D

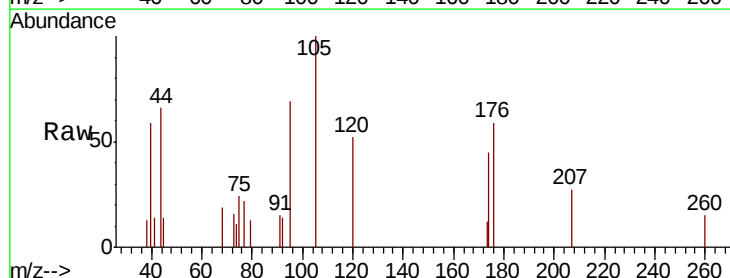
Acq: 12 Aug 2019 22:07

Tgt Ion: 91 Resp: 105

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

200

150

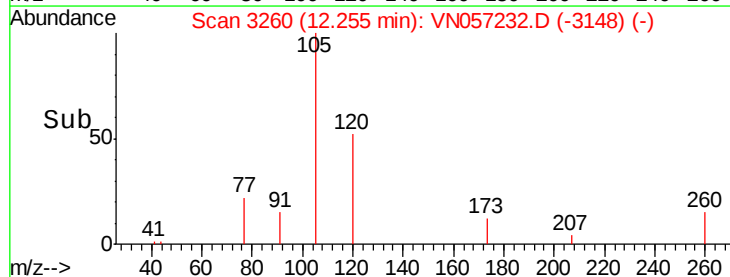
100

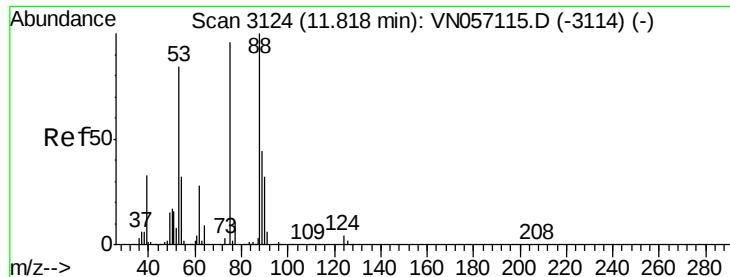
50

0

12.24 12.25 12.26 12.27

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 93.099 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.10 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

Instrument :

MSVOA_N

ClientSampleId :

2S-A3-(0)

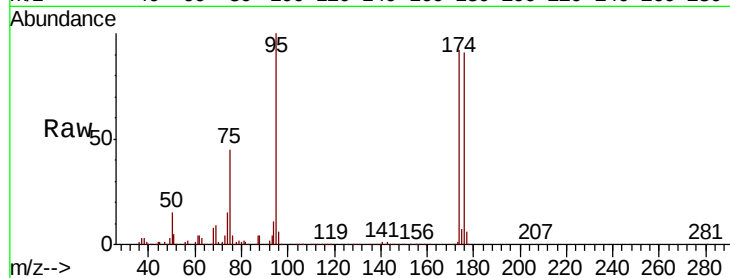
Tgt Ion: 75 Resp: 259610

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

89 0.0 36.4 54.6#



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

11.92

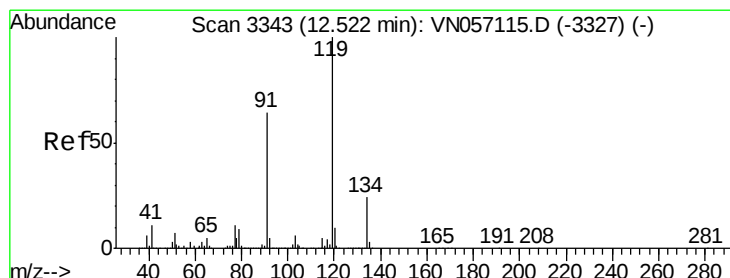
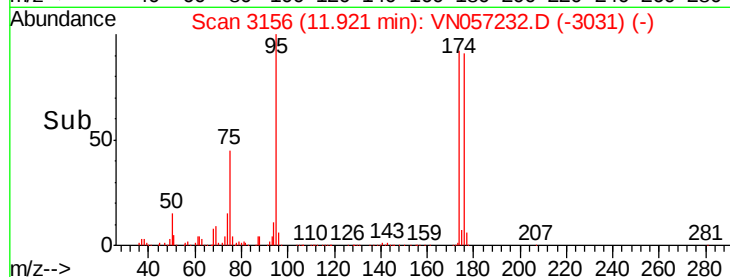
150000

100000

50000

0

Time-->



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.53 min Scan# 3346

Delta R.T. 0.01 min

Lab File: VN057232.D

Acq: 12 Aug 2019 22:07

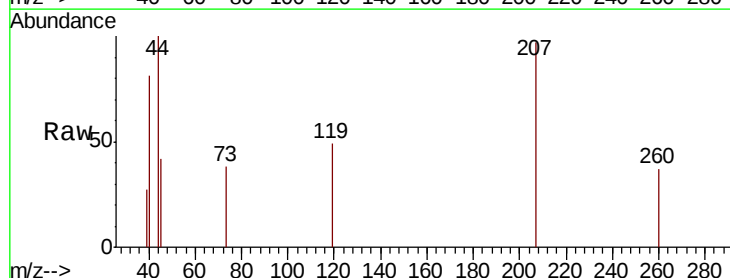
Tgt Ion: 119 Resp: 138

Ion Ratio Lower Upper

119 100

91 0.0 31.4 94.2#

134 0.0 13.2 39.6#



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

12.53

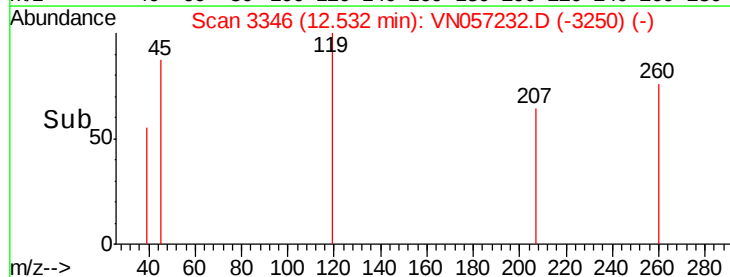
300

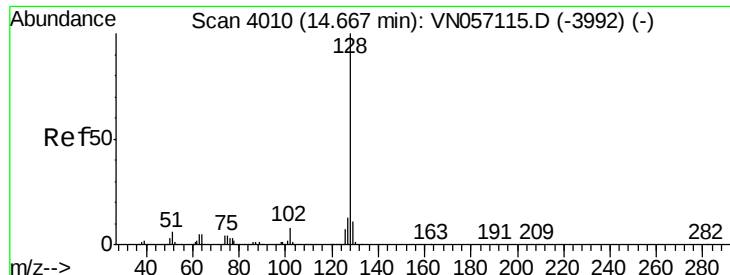
200

100

0

Time-->

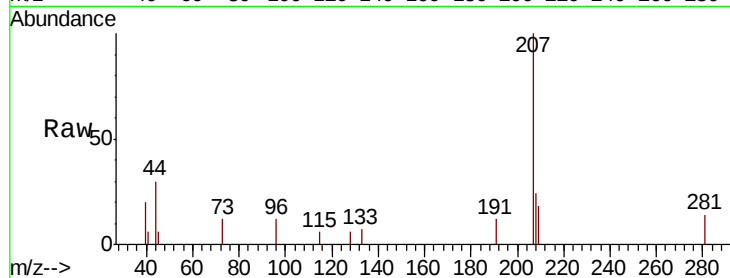




#95
Naphthalene
Concen: 2.813 ug/l
RT: 14.67 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VN057232.D
Acq: 12 Aug 2019 22:07

Instrument :
MSVOA_N
ClientSampleId :
2S-A3-(0)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.8	13.2#



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

