

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058037.D
 Acq On : 13 Sep 2019 23:03
 Operator : JC/SP
 Sample : K4694-26
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-3-(1.5)

Quant Time: Sep 14 03:40:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	302844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	527717	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	479181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	247476	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	331995	54.12	ug/l	0.00
Spiked Amount			Recovery	=	108.24%	
35) Dibromofluoromethane	7.58	113	229522	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	
50) Toluene-d8	10.09	98	871832	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
62) 4-Bromofluorobenzene	12.40	95	304126	42.20	ug/l	0.00
Spiked Amount			Recovery	=	84.40%	

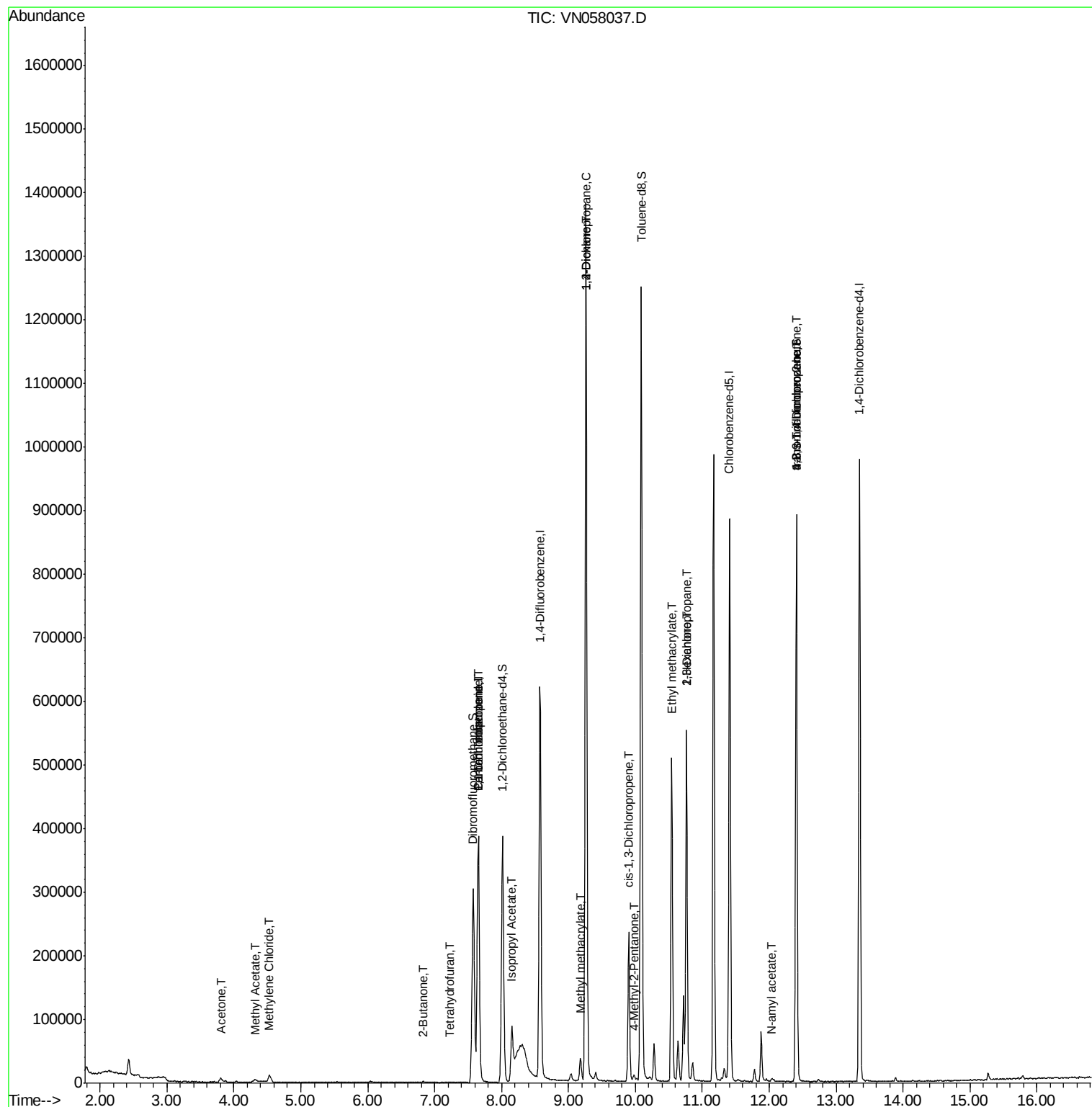
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	324	Below Cal		86
16) Acetone	3.81	43	9896	4.921	ug/l	92
18) Methyl Acetate	4.31	43	5615	1.047	ug/l #	83
20) Methylene Chloride	4.53	84	7148	0.652	ug/l	92
25) 2-Butanone	6.84	43	1998	0.687	ug/l	94
29) Tetrahydrofuran	7.21	42	426	0.238	ug/l #	56
31) Cyclohexane	7.65	56	8647	Below Cal	#	7
36) 1,1-Dichloropropene	7.65	75	26207	4.282	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32403	5.799	ug/l #	16
43) Isopropyl Acetate	8.15	43	113941	10.715	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	1492	0.278	ug/l #	44
48) Methyl methacrylate	9.17	41	4751	0.881	ug/l #	13
49) 1,4-Dioxane	9.26	88	123	1.348	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7082	1.125	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	38366	5.101	ug/l #	71
56) Ethyl methacrylate	10.54	69	1770	0.239	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4843	0.572	ug/l #	43
59) 2-Hexanone	10.76	43	87974	18.652	ug/l #	52
74) N-amyl acetate	12.04	43	3460	0.414	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	166614	29.761	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166614	104.731	ug/l #	6
95) Naphthalene	15.14	128	733	Below Cal	#	69

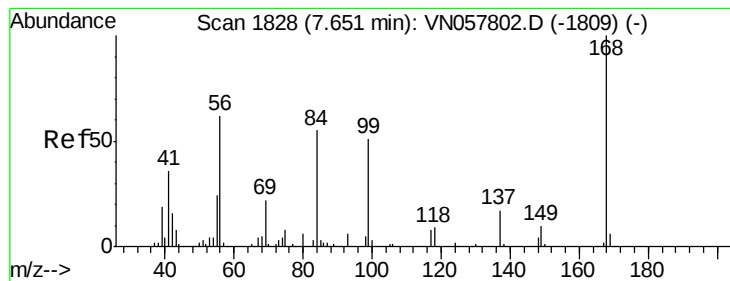
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

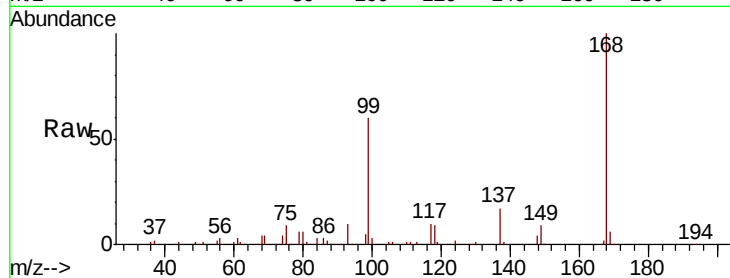
T1-3-(1.5)

Tgt Ion:168 Resp: 302844

Ion Ratio Lower Upper

168 100

99 60.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

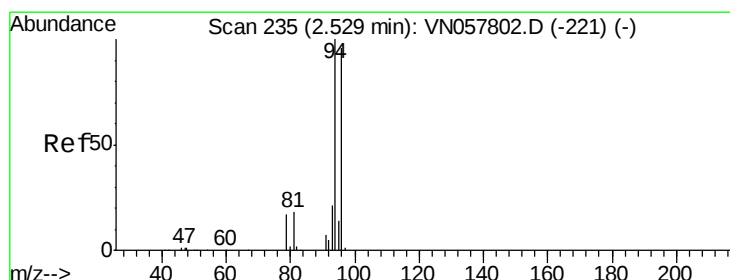
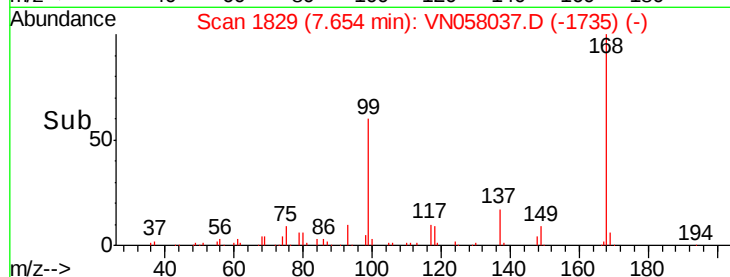
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN058037.D

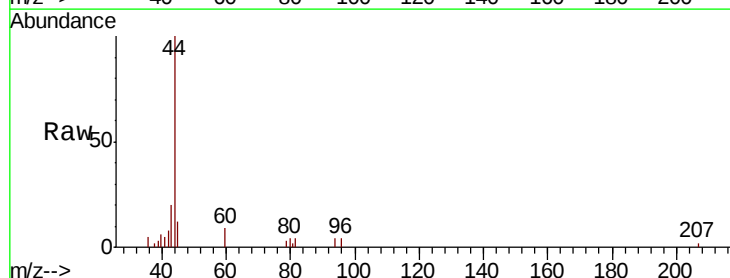
Acq: 13 Sep 2019 23:03

Tgt Ion: 94 Resp: 324

Ion Ratio Lower Upper

94 100

96 110.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

300

250

200

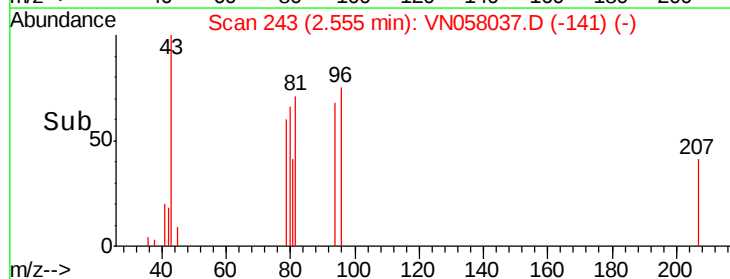
150

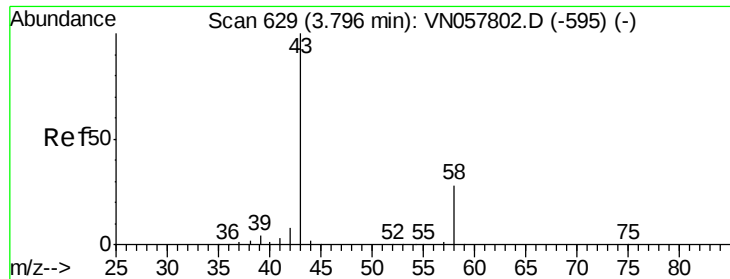
100

50

0

Time-->





#16

Acetone

Concen: 4.921 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

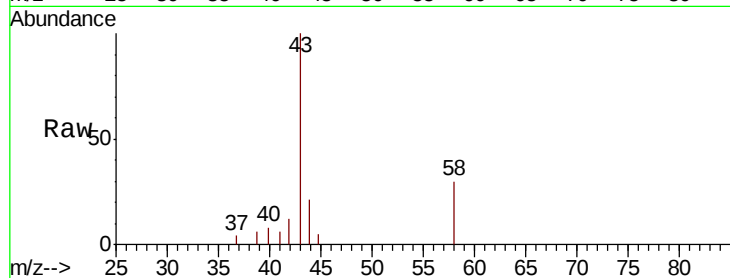
T1-3-(1.5)

Tgt Ion: 43 Resp: 9896

Ion Ratio Lower Upper

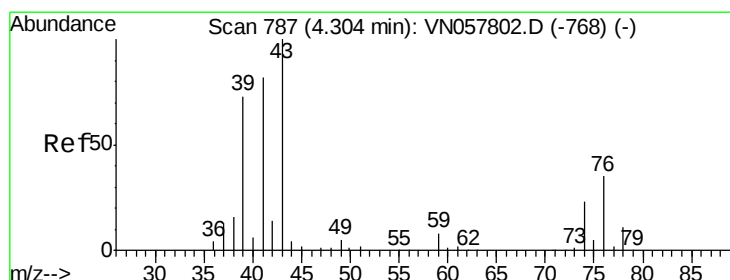
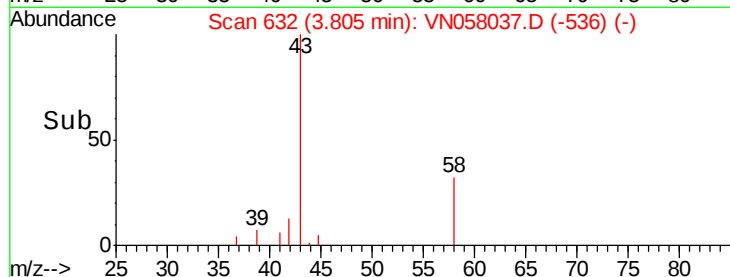
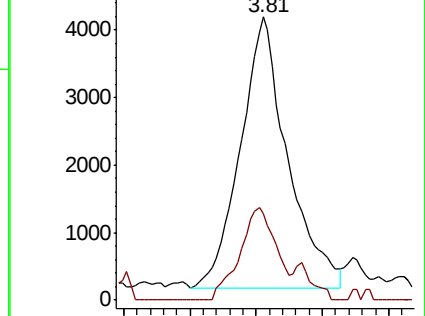
43 100

58 31.7 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.047 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058037.D

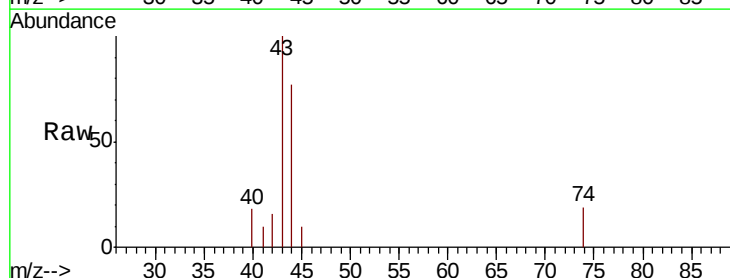
Acq: 13 Sep 2019 23:03

Tgt Ion: 43 Resp: 5615

Ion Ratio Lower Upper

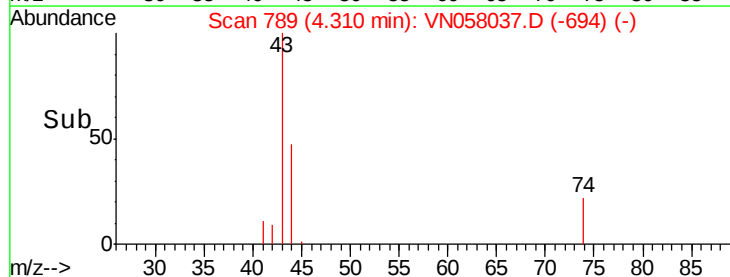
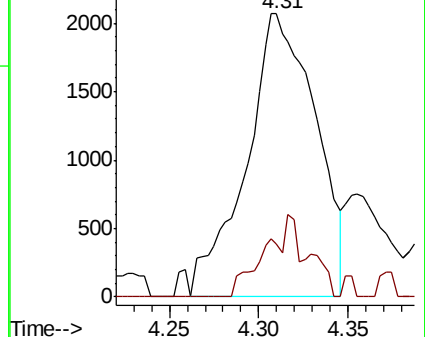
43 100

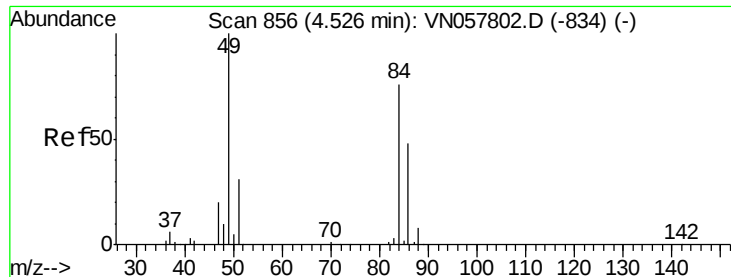
74 14.4 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

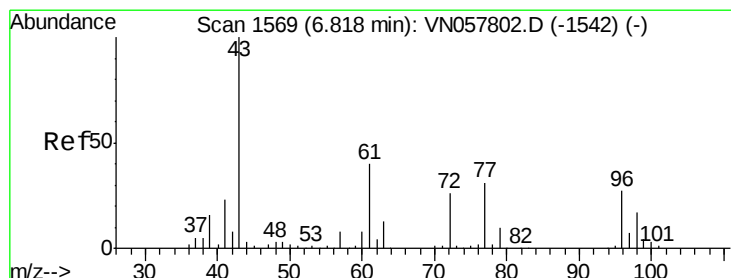
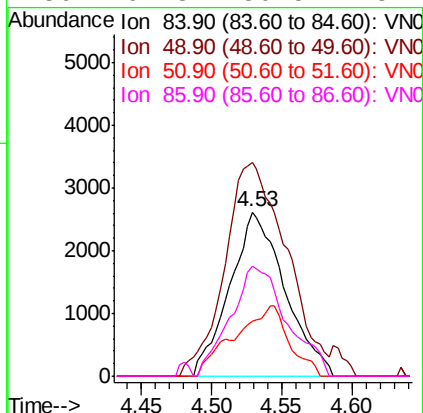
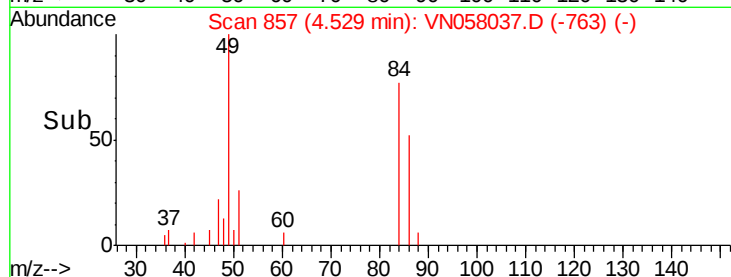
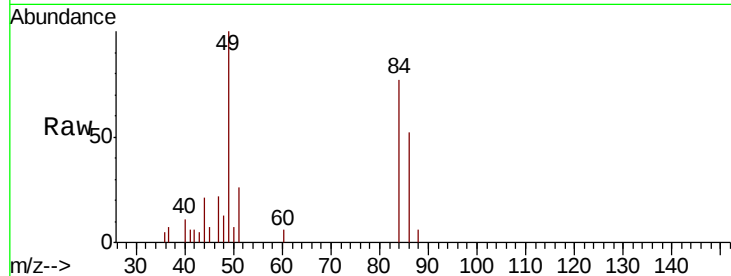




#20
Methylene Chloride
Concen: 0.652 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058037.D
Acq: 13 Sep 2019 23:03

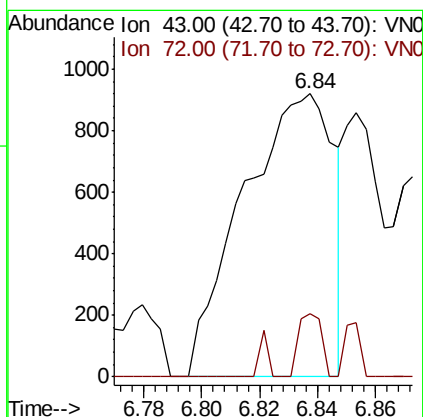
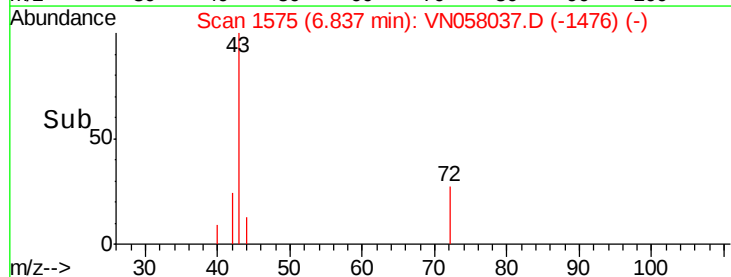
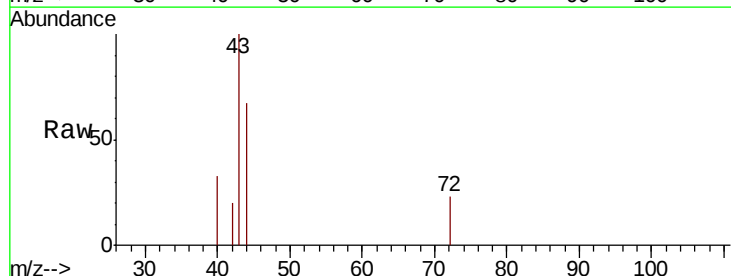
Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

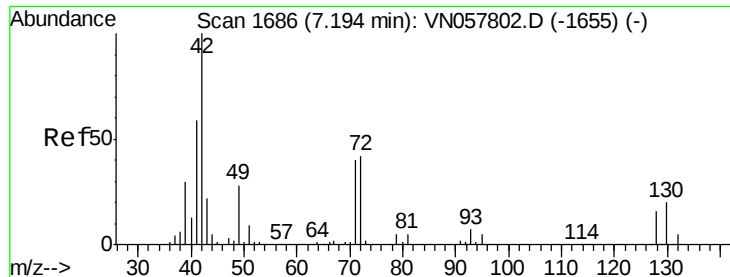
Tgt Ion: 84 Resp: 7148
Ion Ratio Lower Upper
84 100
49 120.9 104.8 157.2
51 33.6 33.0 49.4
86 67.3 50.5 75.7



#25
2-Butanone
Concen: 0.687 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN058037.D
Acq: 13 Sep 2019 23:03

Tgt Ion: 43 Resp: 1998
Ion Ratio Lower Upper
43 100
72 22.5 20.6 30.8





#29

Tetrahydrofuran

Concen: 0.238 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.02 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampled :

T1-3-(1.5)

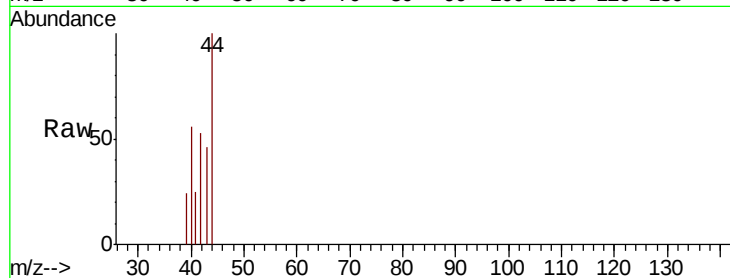
Tgt Ion: 42 Resp: 426

Ion Ratio Lower Upper

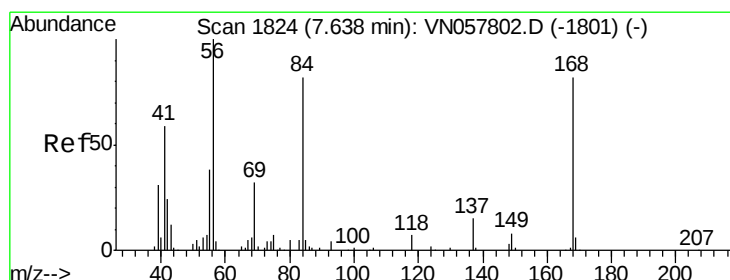
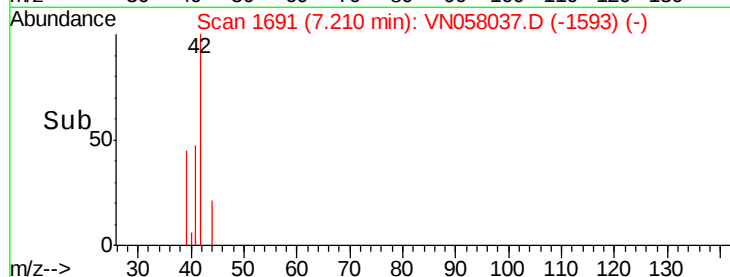
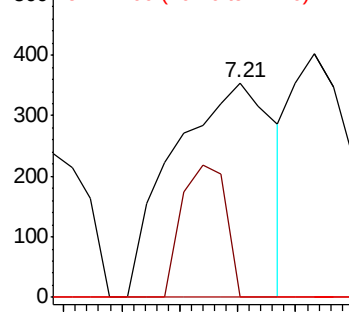
42 100

72 27.0 33.7 50.5#

71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

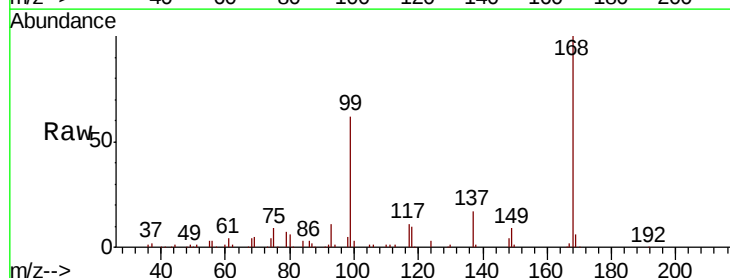
Tgt Ion: 56 Resp: 8647

Ion Ratio Lower Upper

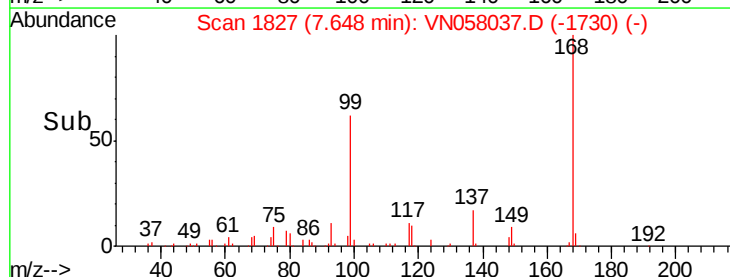
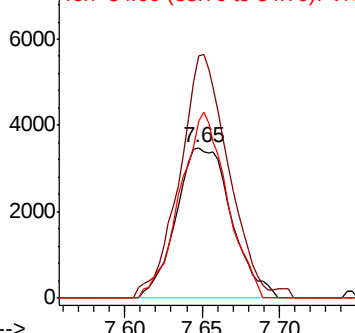
56 100

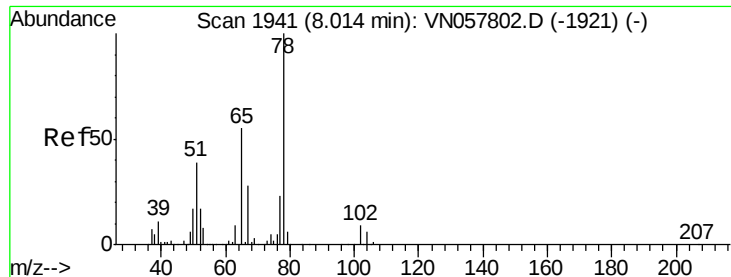
69 160.9 25.9 38.9#

84 117.5 65.6 98.4#



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

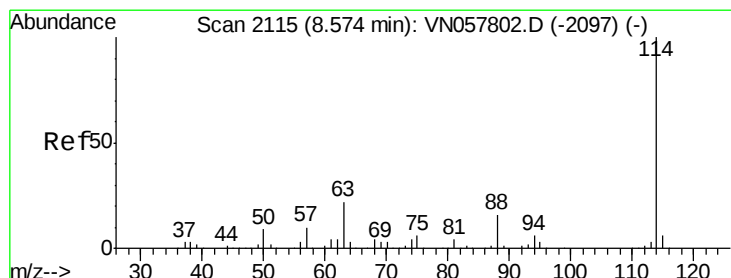
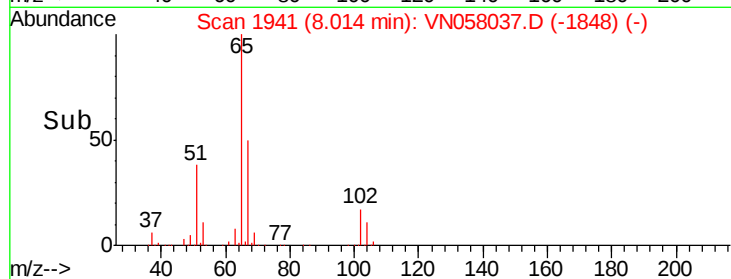
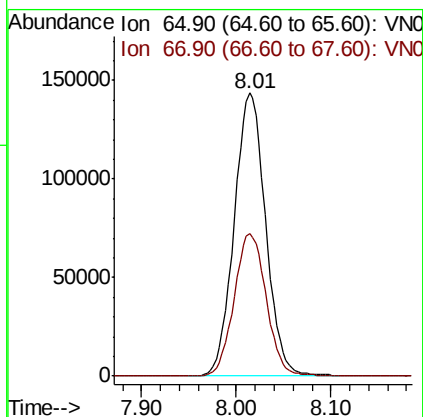
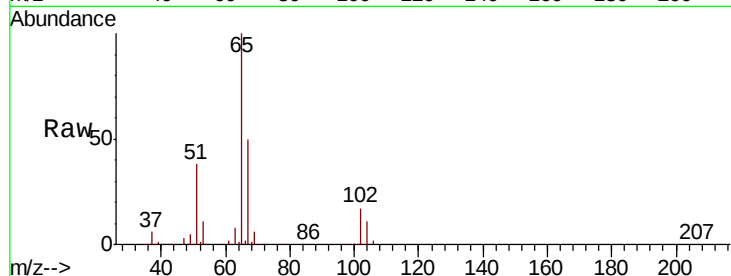




#33
 1,2-Dichloroethane-d4
 Concen: 54.125 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058037.D
 Acq: 13 Sep 2019 23:03

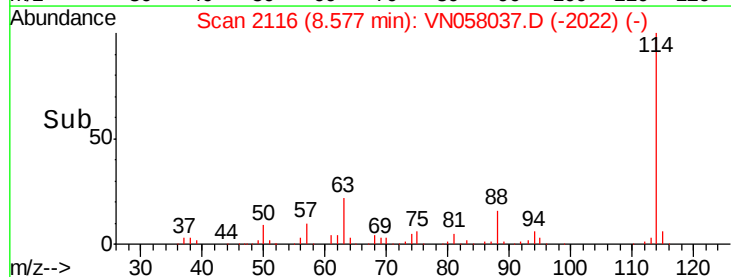
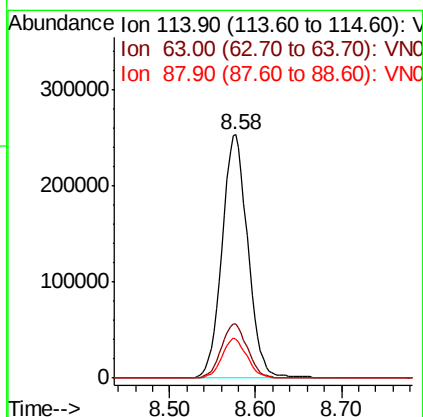
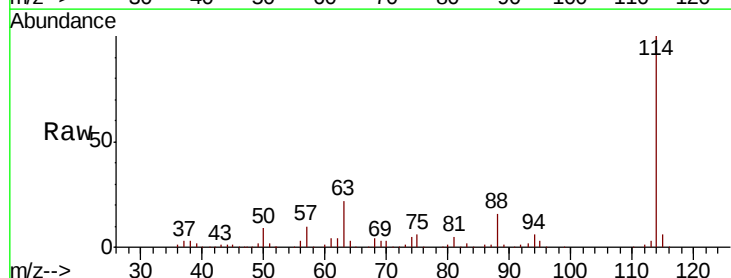
Instrument :
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 ClientSampleId :
 T1-3-(1.5)

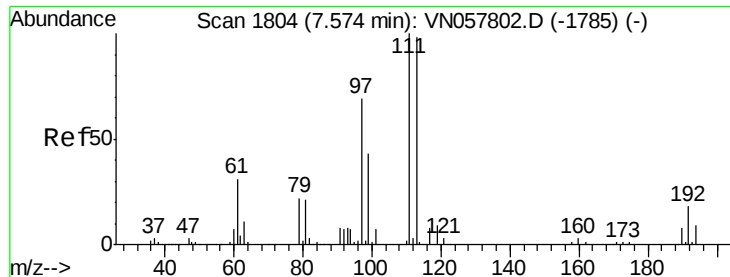
Tgt Ion: 65 Resp: 331995
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058037.D
 Acq: 13 Sep 2019 23:03

Tgt Ion: 114 Resp: 527717
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 16.0 0.0 31.4

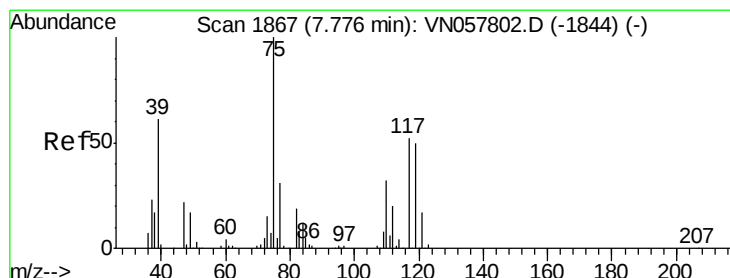
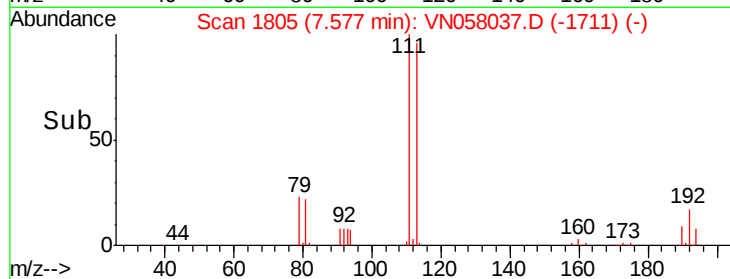
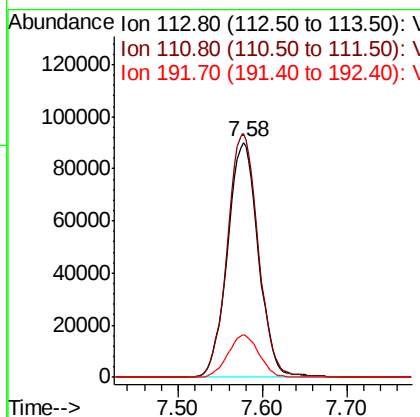
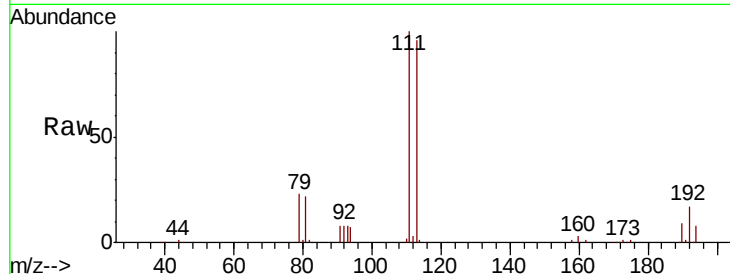




#35
 Dibromofluoromethane
 Concen: 47.124 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058037.D
 Acq: 13 Sep 2019 23:03

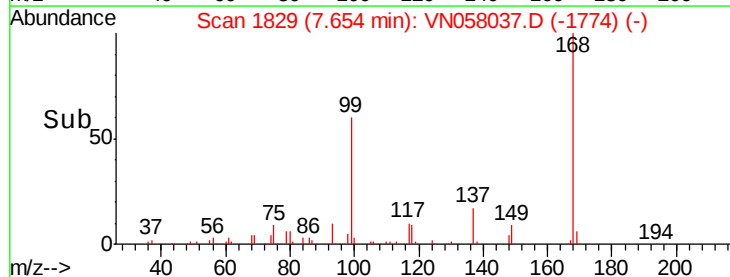
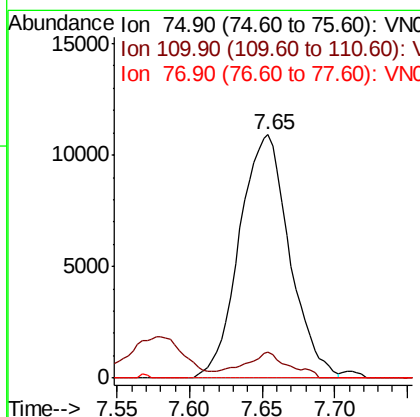
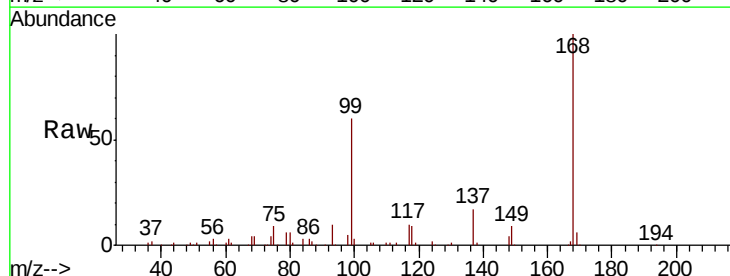
Instrument :
 MSVOA_N
 ClientSampleId :
 T1-3-(1.5)

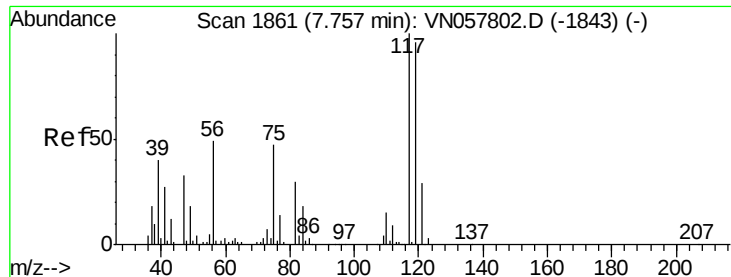
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.3	121.9
192	18.2	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.282 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058037.D
 Acq: 13 Sep 2019 23:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.799 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

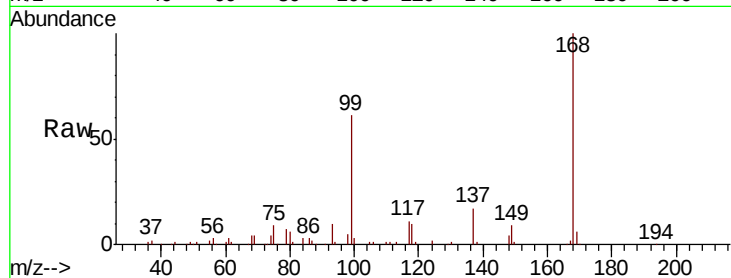
Tgt Ion:117 Resp: 32403

Ion Ratio Lower Upper

117 100

119 4.9 76.9 115.3#

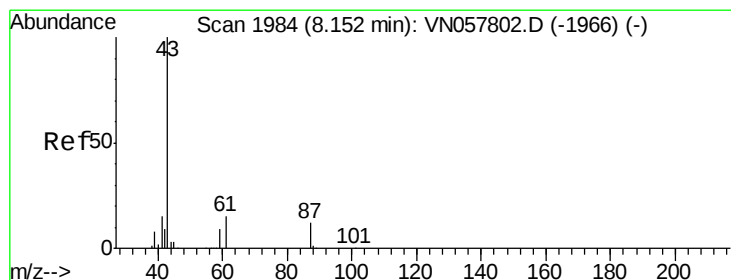
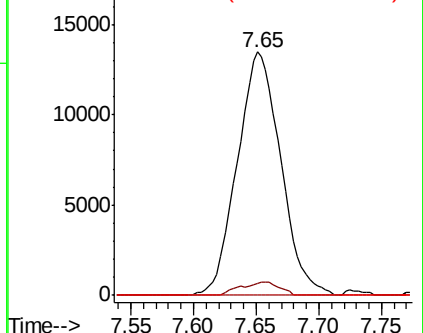
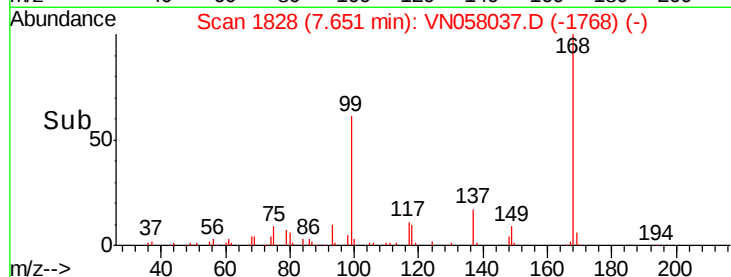
121 0.0 23.4 35.2#



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



#43

Isopropyl Acetate

Concen: 10.715 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

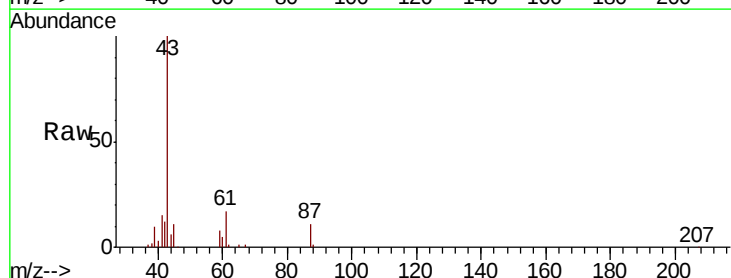
Tgt Ion: 43 Resp: 113941

Ion Ratio Lower Upper

43 100

61 14.9 20.1 30.1#

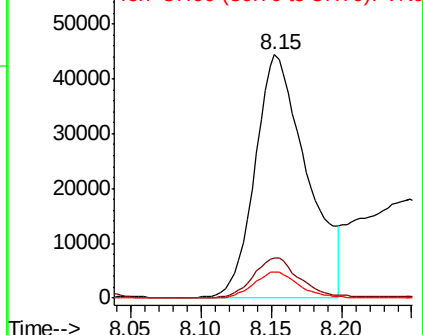
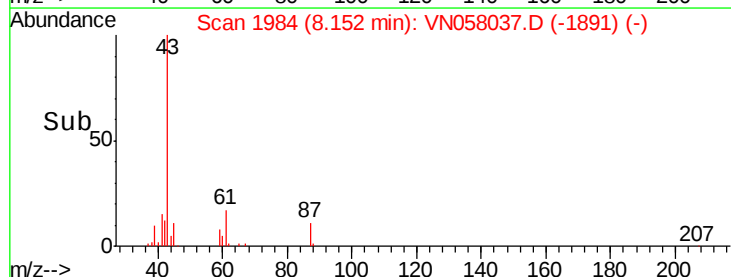
87 9.2 9.5 14.3#

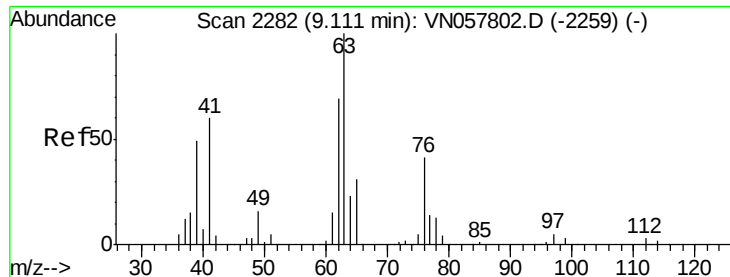


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.278 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.16 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

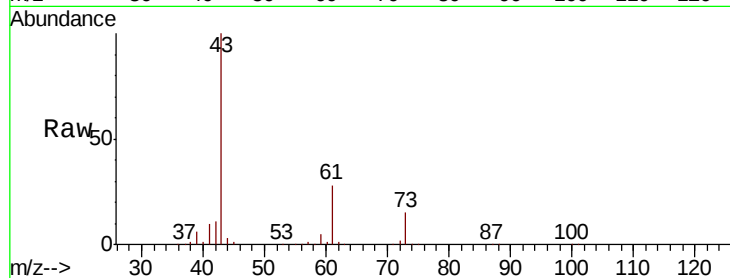
T1-3-(1.5)

Tgt Ion: 63 Resp: 1492

Ion Ratio Lower Upper

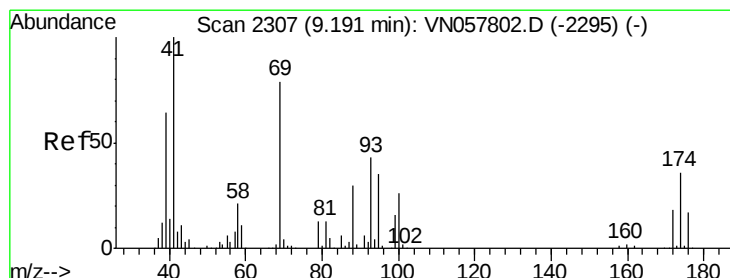
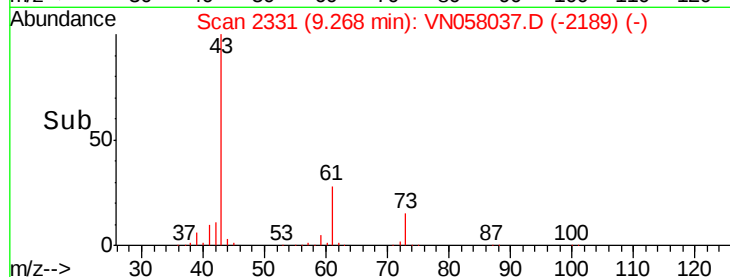
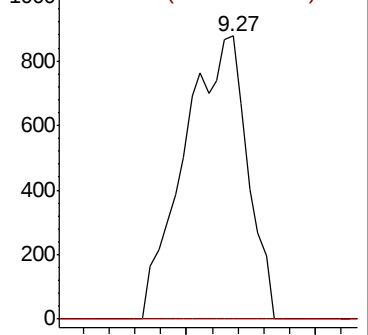
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 0.881 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

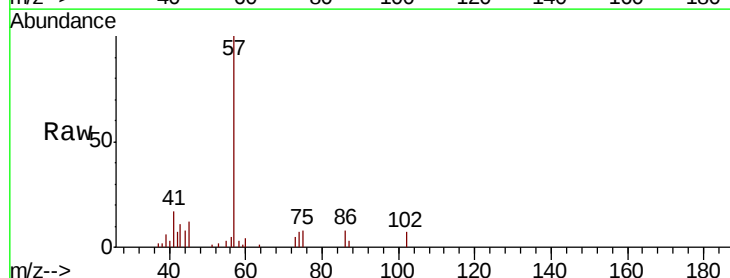
Tgt Ion: 41 Resp: 4751

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

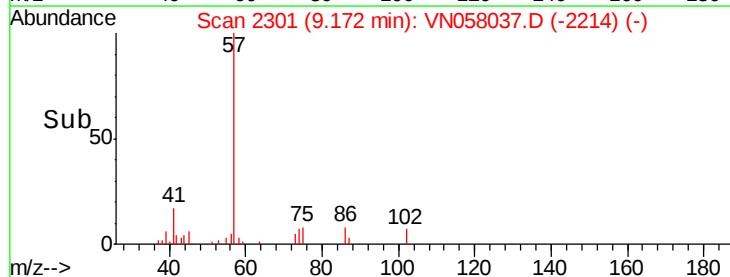
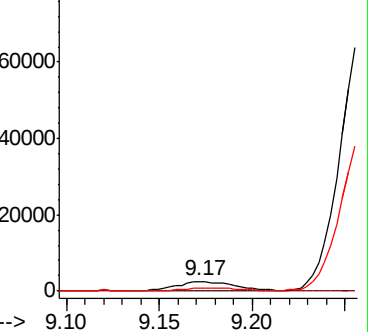
39 0.0 52.7 79.1#

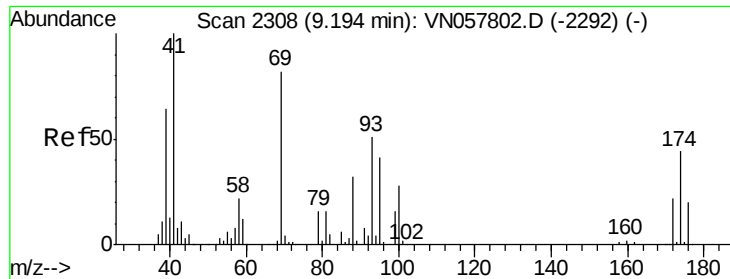


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.348 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

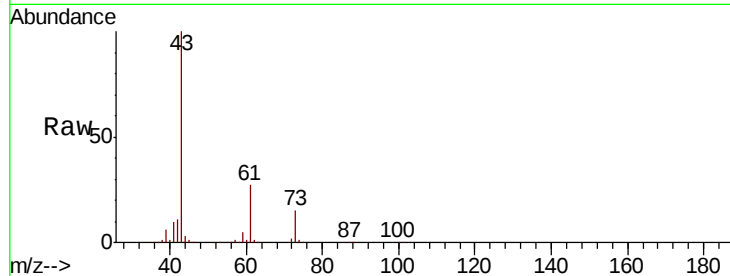
Tgt Ion: 88 Resp: 123

Ion Ratio Lower Upper

88 100

43 1099858.5 28.5 42.7#

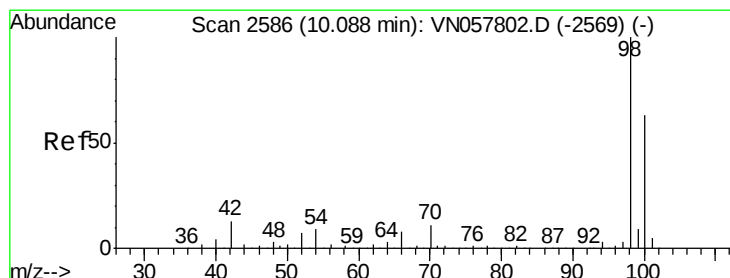
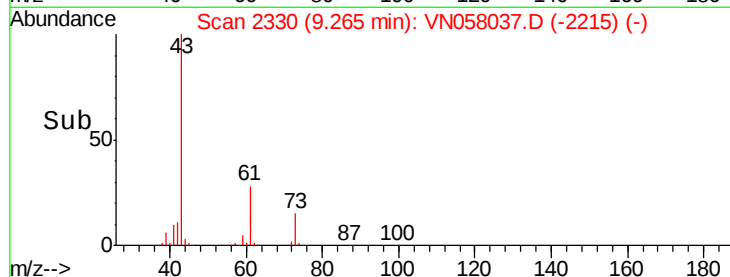
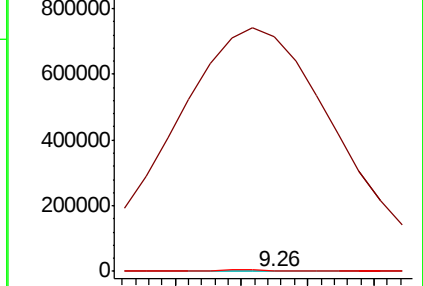
58 5378.9 55.8 83.6#



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: 46.103 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058037.D

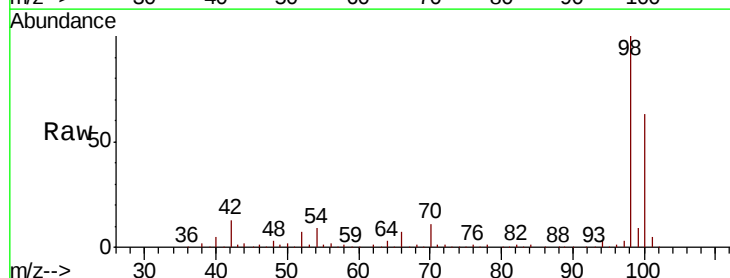
Acq: 13 Sep 2019 23:03

Tgt Ion: 98 Resp: 871832

Ion Ratio Lower Upper

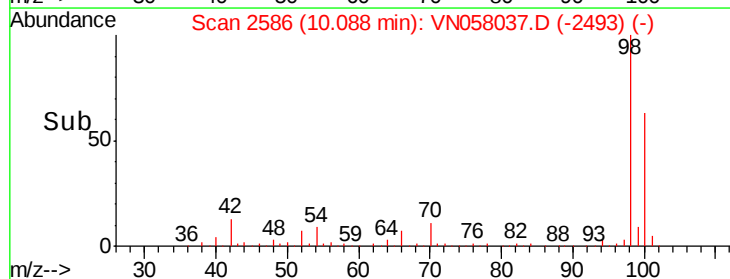
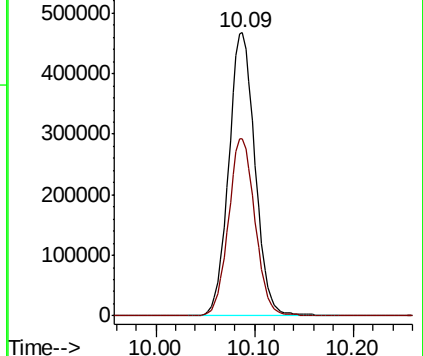
98 100

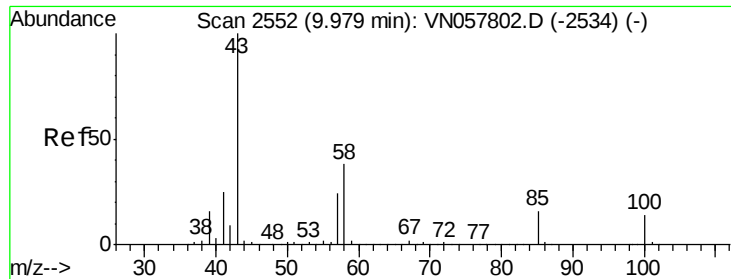
100 63.3 50.3 75.5



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: 1.125 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

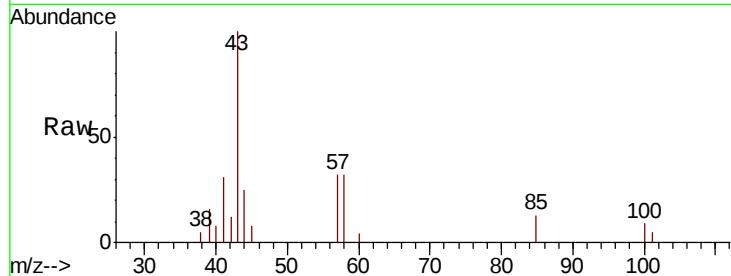
T1-3-(1.5)

Tgt Ion: 43 Resp: 7082

Ion Ratio Lower Upper

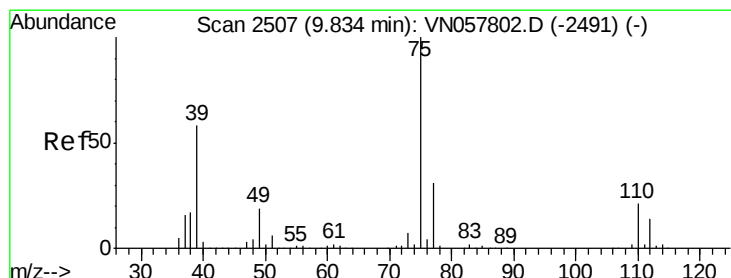
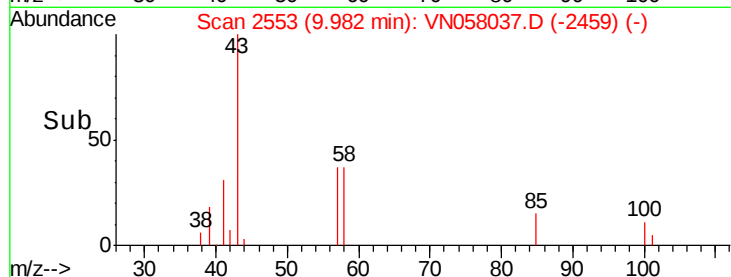
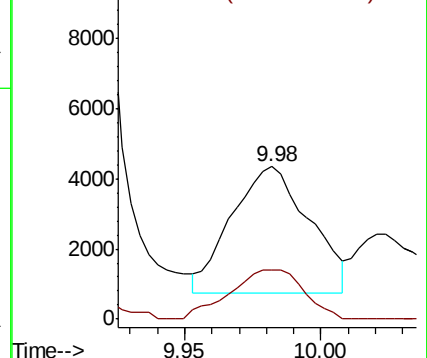
43 100

58 37.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.101 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

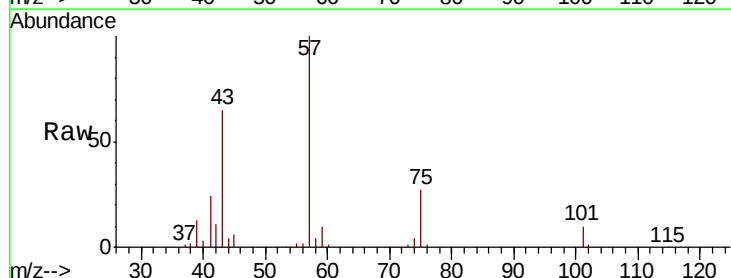
Tgt Ion: 75 Resp: 38366

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

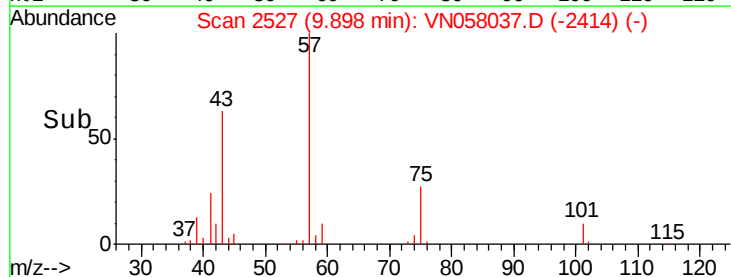
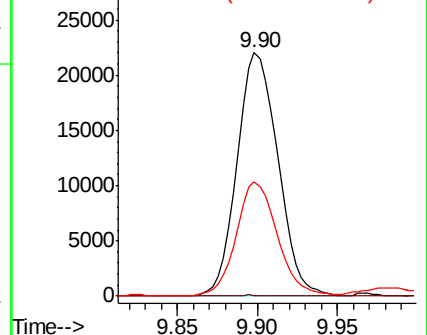
39 46.8 46.2 69.4

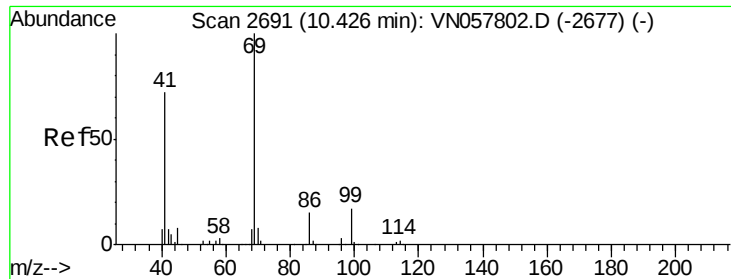


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)





#56

Ethyl methacrylate

Concen: 0.239 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

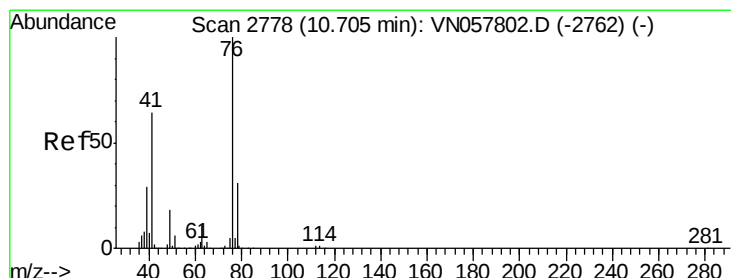
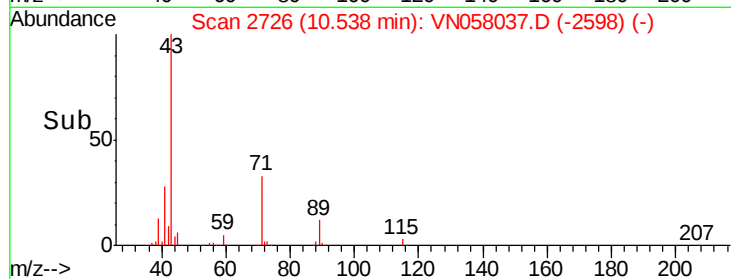
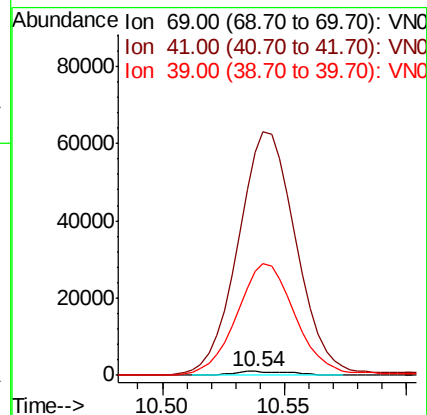
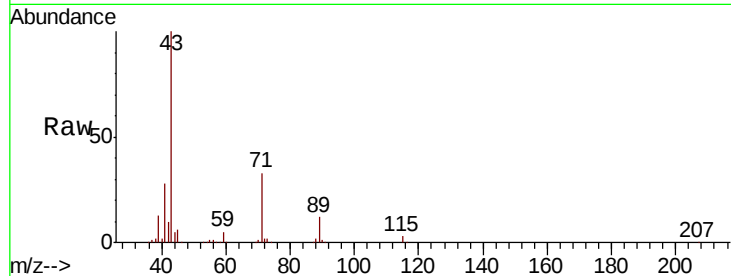
Tgt Ion: 69 Resp: 1770

Ion Ratio Lower Upper

69 100

41 5871.5 56.7 85.1#

39 2762.2 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.572 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058037.D

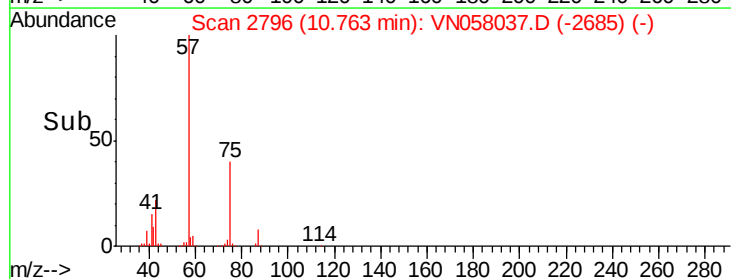
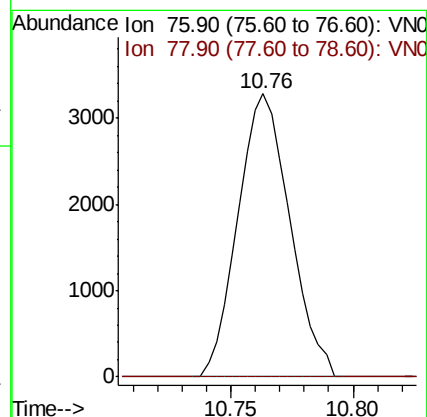
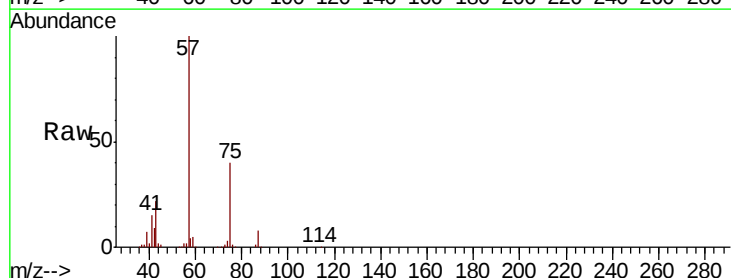
Acq: 13 Sep 2019 23:03

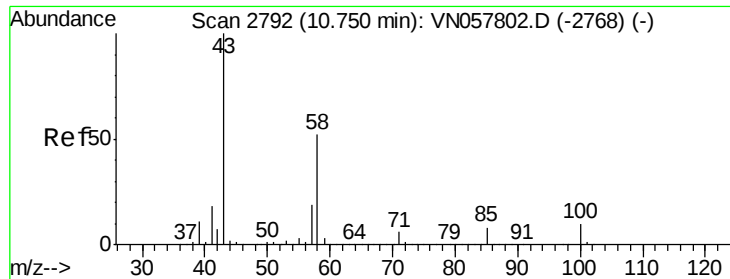
Tgt Ion: 76 Resp: 4843

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

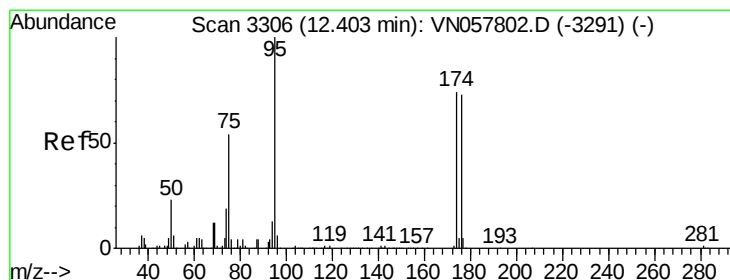
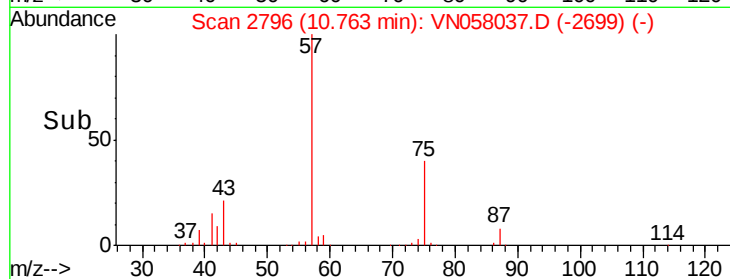
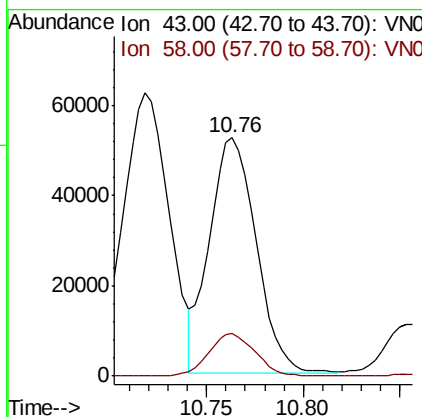
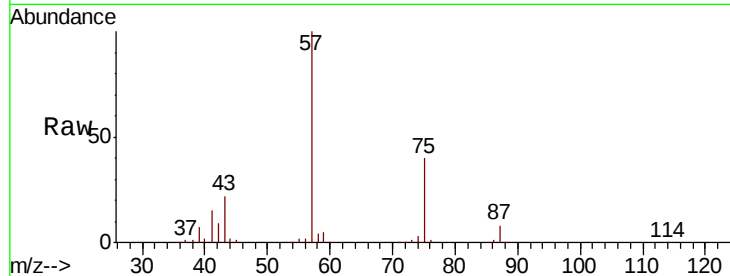




#59
2-Hexanone
Concen: 18.652 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058037.D
Acq: 13 Sep 2019 23:03

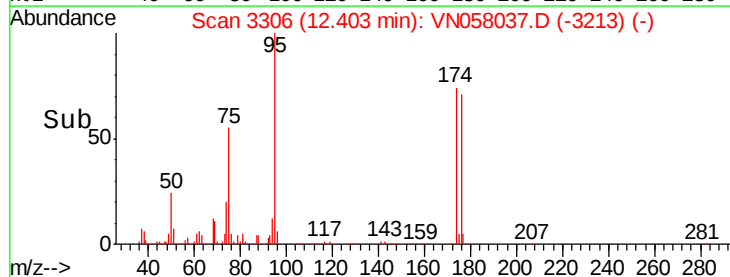
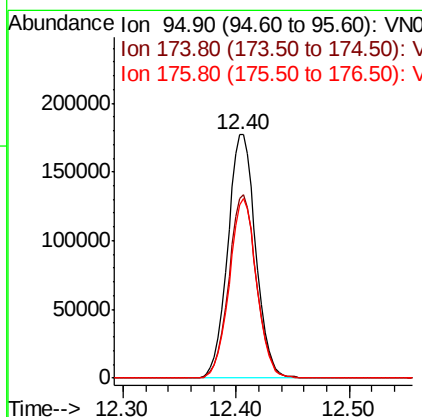
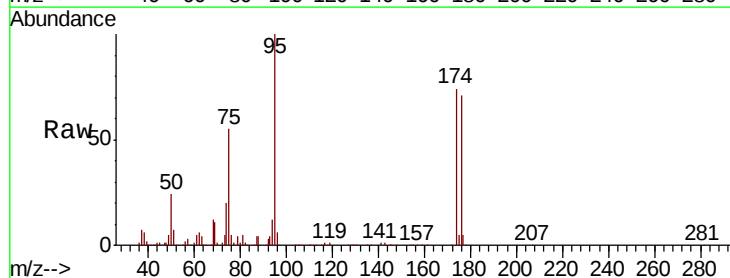
Instrument :
MSVOA_N
ClientSampleId :
T1-3-(1.5)

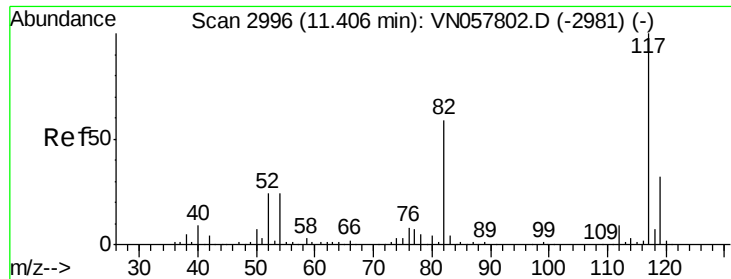
Tgt Ion: 43 Resp: 87974
Ion Ratio Lower Upper
43 100
58 17.9 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.202 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058037.D
Acq: 13 Sep 2019 23:03

Tgt Ion: 95 Resp: 304126
Ion Ratio Lower Upper
95 100
174 74.2 0.0 150.2
176 72.0 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

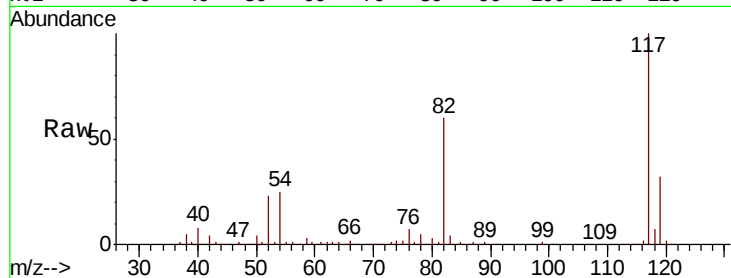
Tgt Ion:117 Resp: 479181

Ion Ratio Lower Upper

117 100

82 59.6 47.2 70.8

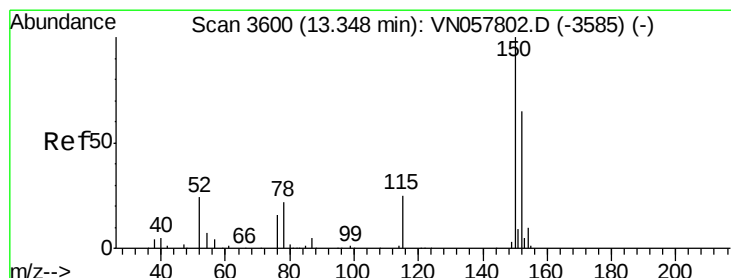
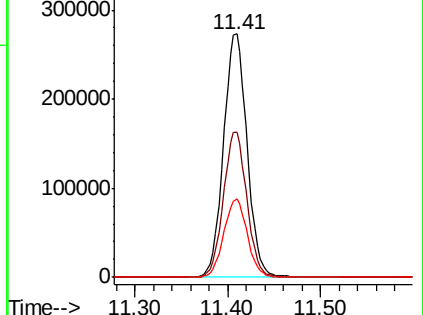
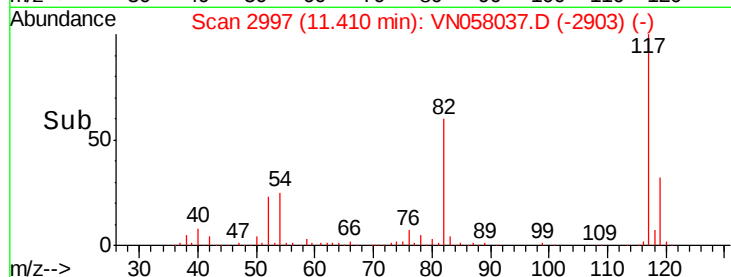
119 32.2 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

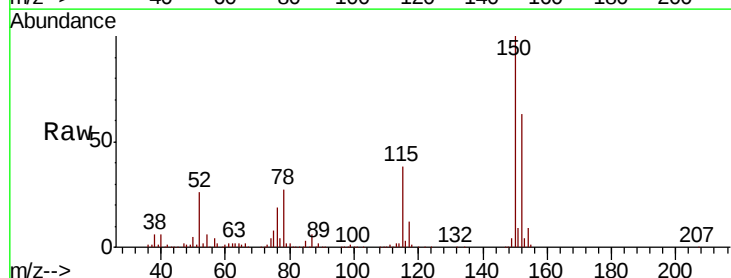
Tgt Ion:152 Resp: 247476

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

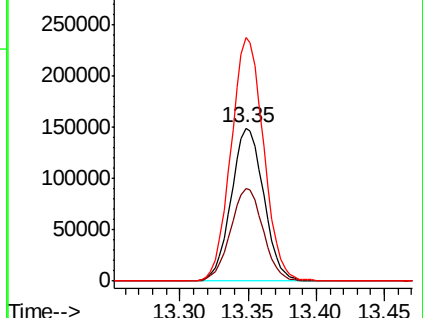
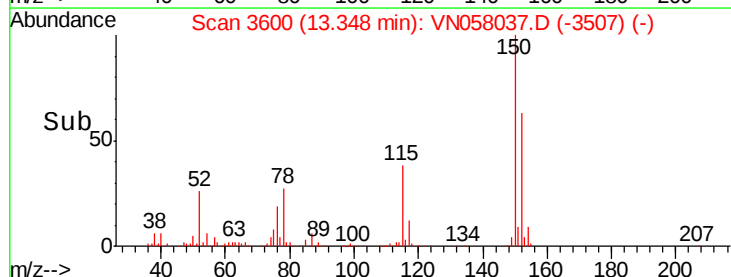
150 159.0 0.0 352.4

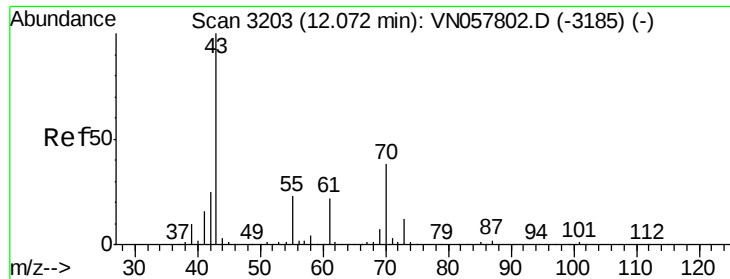


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

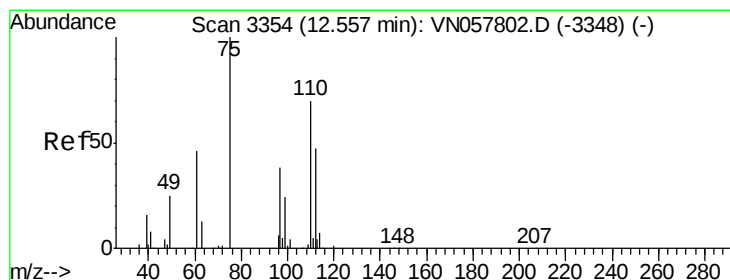
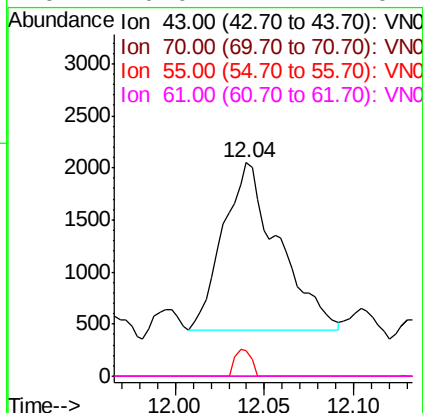
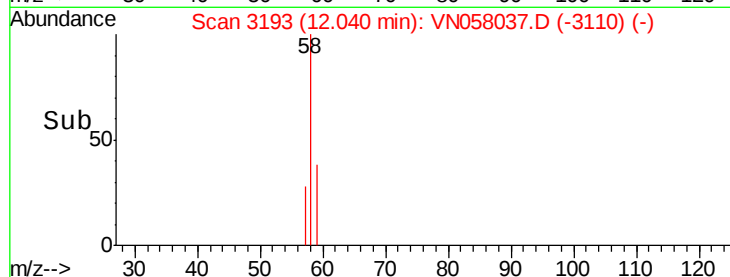
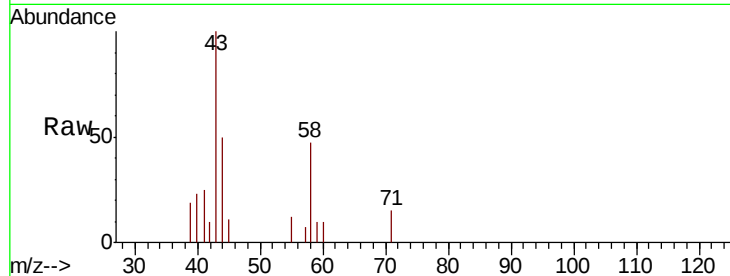




#74
N-ethyl acetate
Concen: 0.414 ug/l
RT: 12.04 min Scan# 3193
Delta R.T. -0.03 min
Lab File: VN058037.D
Acq: 13 Sep 2019 23:03

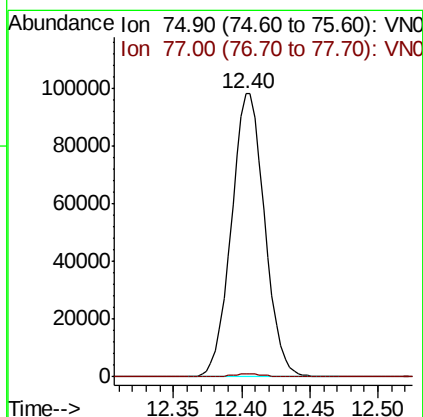
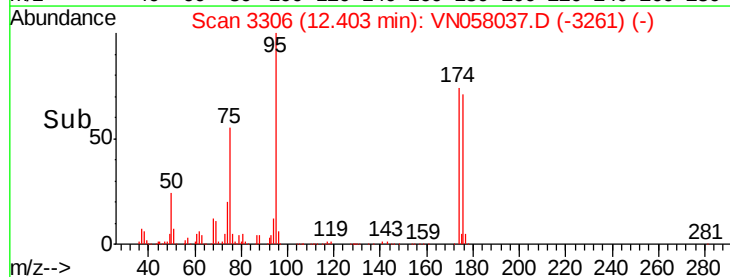
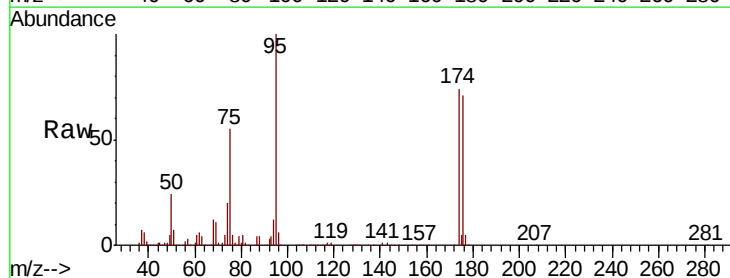
Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

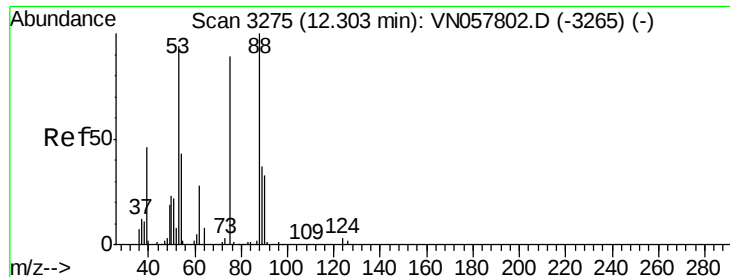
Tgt Ion: 43 Resp: 3460
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 4.7 18.6 27.8#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 29.761 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN058037.D
Acq: 13 Sep 2019 23:03

Tgt Ion: 75 Resp: 166614
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 104.731 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

Instrument :

MSVOA_N

ClientSampled :

T1-3-(1.5)

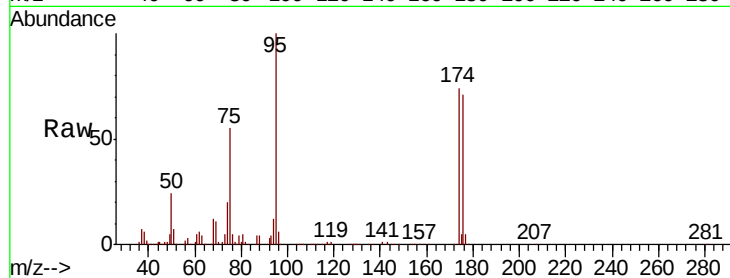
Tgt Ion: 75 Resp: 166614

Ion Ratio Lower Upper

75 100

53 0.1 88.4 132.6#

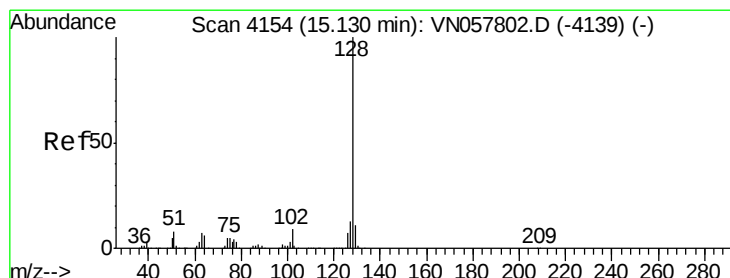
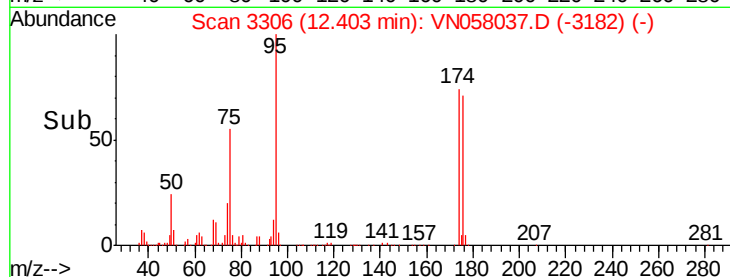
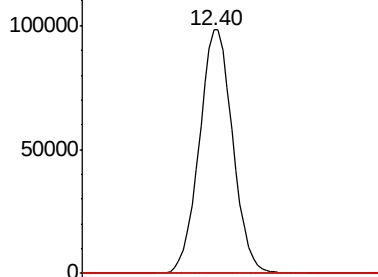
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058037.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058037.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058037.D (-3306) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058037.D

Acq: 13 Sep 2019 23:03

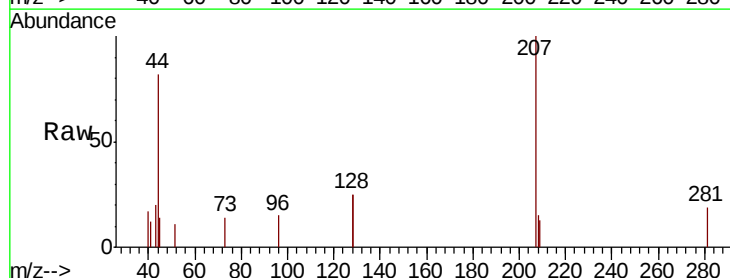
Tgt Ion: 128 Resp: 733

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058037.D (-4156) (-)

Ion 127.00 (126.70 to 127.70): VN058037.D (-4156) (-)

Ion 129.00 (128.70 to 129.70): VN058037.D (-4156) (-)

