

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057994.D
 Acq On : 13 Sep 2019 00:53
 Operator : JC/SP
 Sample : K4680-34
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(1.5)

Quant Time: Sep 13 04:53:22 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	235260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	428903	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	376978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	183860	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	313399	65.77	ug/l	0.00
Spiked Amount			Recovery	=	131.54%	
35) Dibromofluoromethane	7.58	113	212367	53.65	ug/l	0.00
Spiked Amount			Recovery	=	107.30%	
50) Toluene-d8	10.09	98	742188	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.41	95	241657	41.26	ug/l	0.00
Spiked Amount			Recovery	=	82.52%	

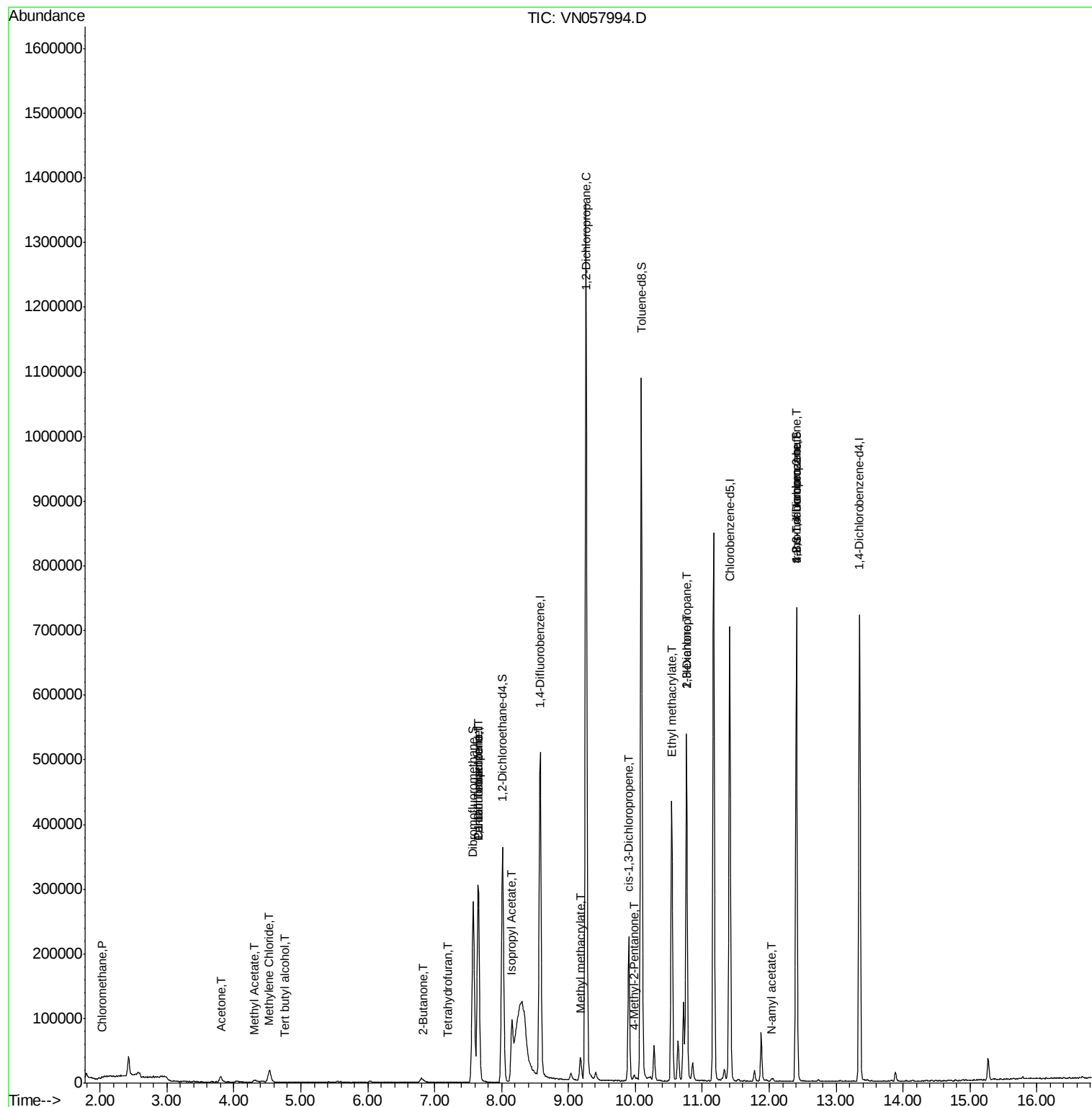
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	665	0.201	ug/l	93
5) Bromomethane	2.56	94	305	Below Cal	#	2
11) Tert butyl alcohol	4.75	59	126	0.218	ug/l #	72
16) Acetone	3.80	43	14530	9.302	ug/l	97
18) Methyl Acetate	4.31	43	5569	1.337	ug/l #	69
20) Methylene Chloride	4.53	84	13249	3.306	ug/l	96
25) 2-Butanone	6.83	43	1972	0.872	ug/l #	49
29) Tetrahydrofuran	7.19	42	527	0.378	ug/l #	34
31) Cyclohexane	7.65	56	6314	Below Cal	#	15
36) 1,1-Dichloropropene	7.65	75	21270	4.276	ug/l #	51
38) Carbon Tetrachloride	7.65	117	24365	5.365	ug/l #	16
43) Isopropyl Acetate	8.16	43	119002	13.769	ug/l #	81
45) 1,2-Dichloropropane	9.26	63	1658	0.380	ug/l #	44
48) Methyl methacrylate	9.18	41	4469	1.019	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	6460	1.263	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	36456	5.963	ug/l #	70
56) Ethyl methacrylate	10.54	69	1944	0.323	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5150	0.748	ug/l #	43
59) 2-Hexanone	10.76	43	80046	20.881	ug/l #	54
74) N-amyl acetate	12.03	43	3256	0.524	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	131448	31.604	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131448	111.215	ug/l #	6
95) Naphthalene	15.14	128	509	Below Cal	#	77

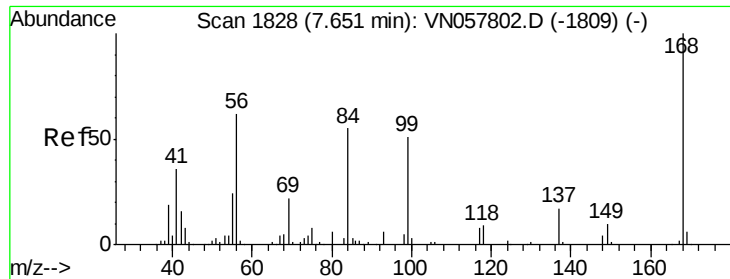
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
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ClientSampleId :
T3-2-(1.5)

Quant Time: Sep 13 04:53:22 2019
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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

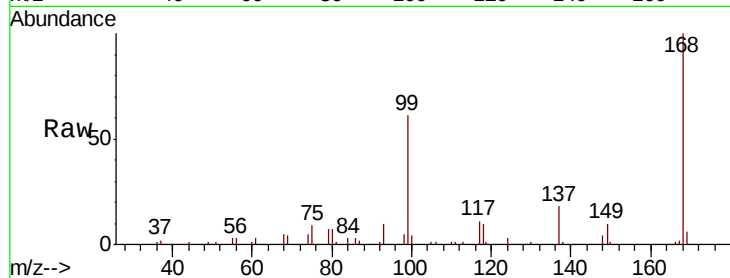
Instrument :
MSVOA_N
ClientSampled :
T3-2-(1.5)

Tgt Ion: 168 Resp: 235260

Ion Ratio Lower Upper

168 100

99 61.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

100000

80000

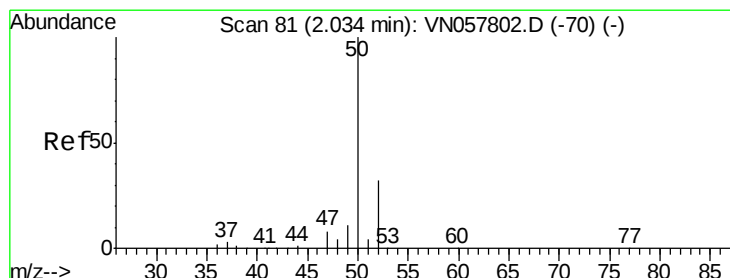
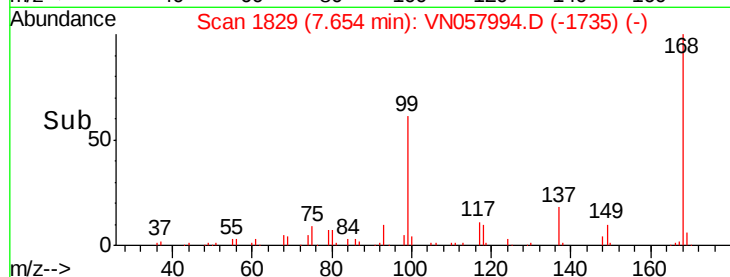
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.201 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057994.D

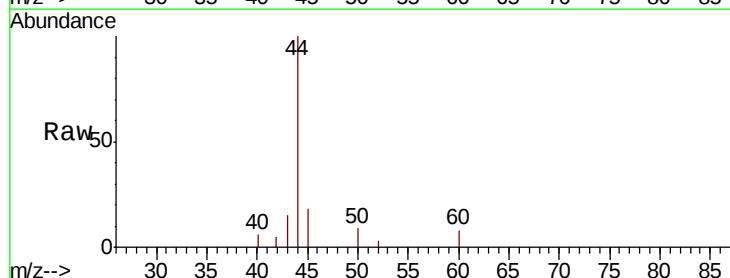
Acq: 13 Sep 2019 00:53

Tgt Ion: 50 Resp: 665

Ion Ratio Lower Upper

50 100

52 35.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.03

600

500

400

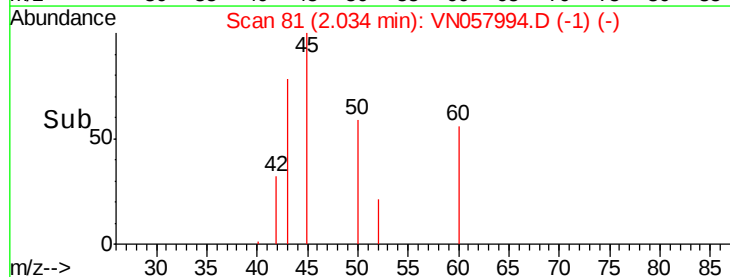
300

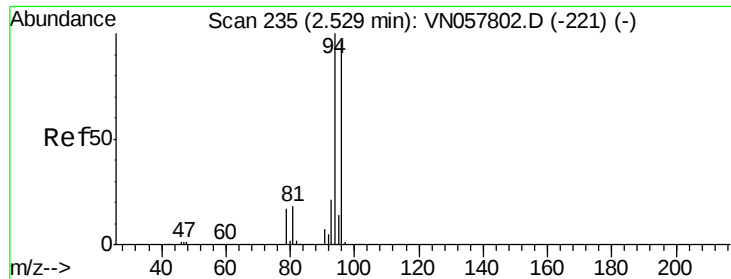
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 246

Delta R.T. 0.04 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

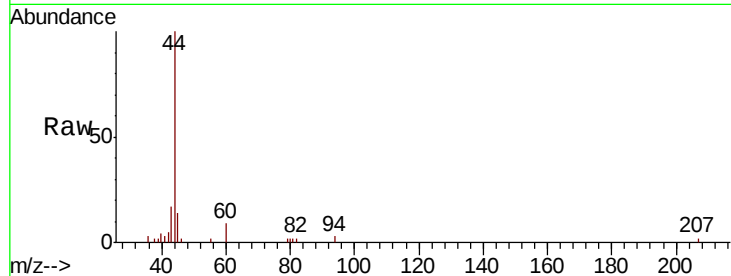
T3-2-(1.5)

Tgt Ion: 94 Resp: 305

Ion Ratio Lower Upper

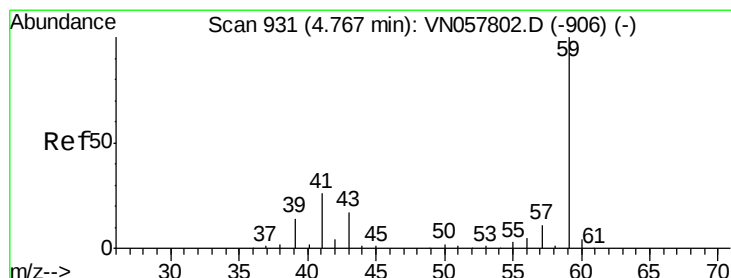
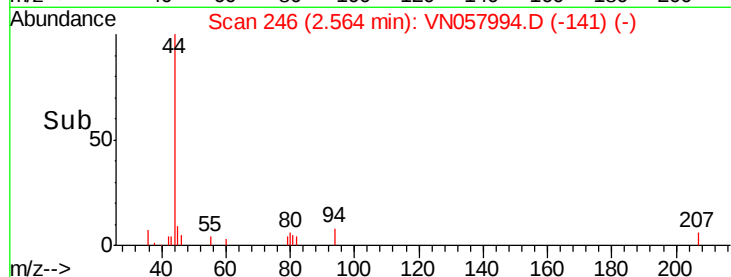
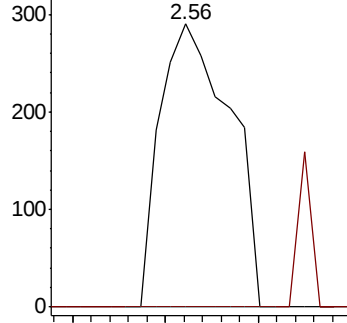
94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.218 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN057994.D

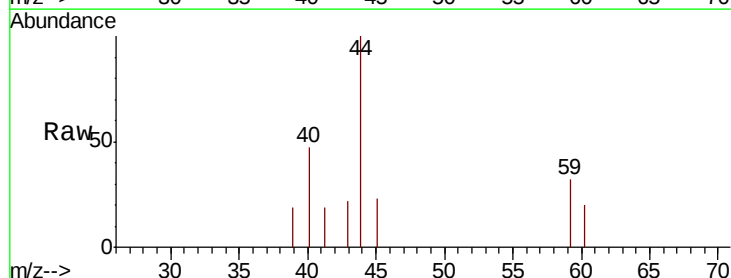
Acq: 13 Sep 2019 00:53

Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

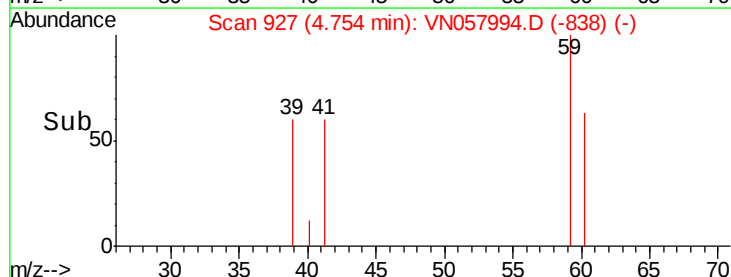
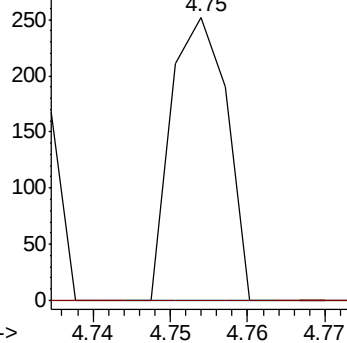
59 100

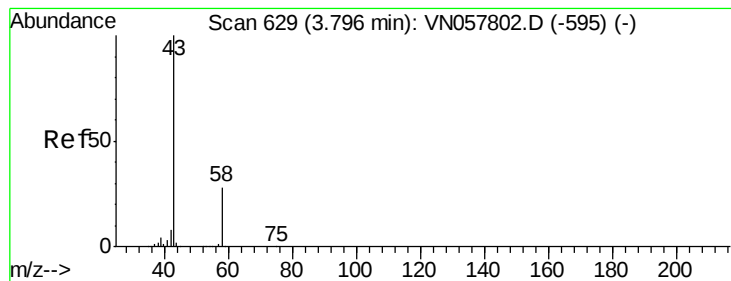
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 9.302 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

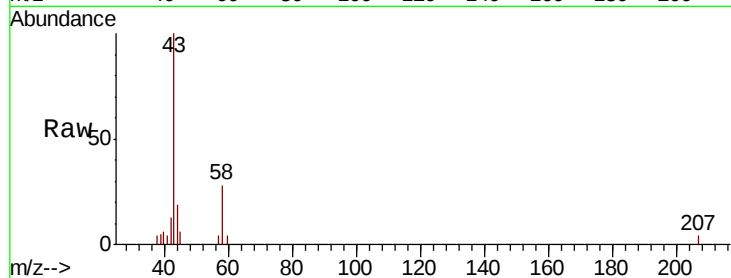
T3-2-(1.5)

Tgt Ion: 43 Resp: 14530

Ion Ratio Lower Upper

43 100

58 29.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-595) (-)

3.80

6000

5000

4000

3000

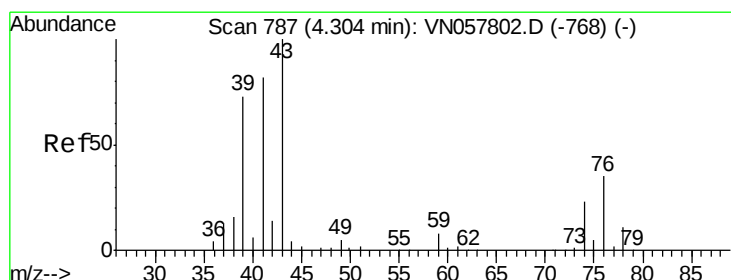
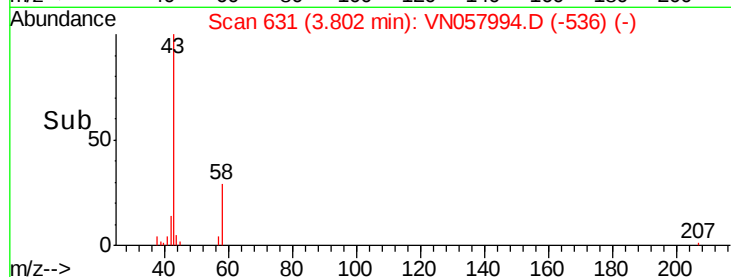
2000

1000

0

Time-->

3.70 3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 1.337 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN057994.D

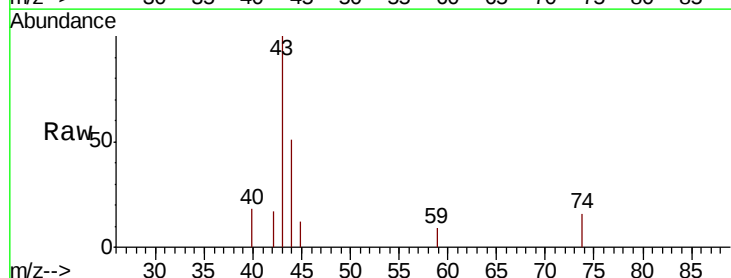
Acq: 13 Sep 2019 00:53

Tgt Ion: 43 Resp: 5569

Ion Ratio Lower Upper

43 100

74 7.5 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN057802.D (-768) (-)

4.31

2500

2000

1500

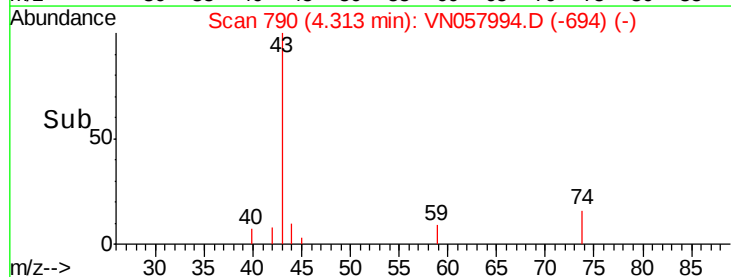
1000

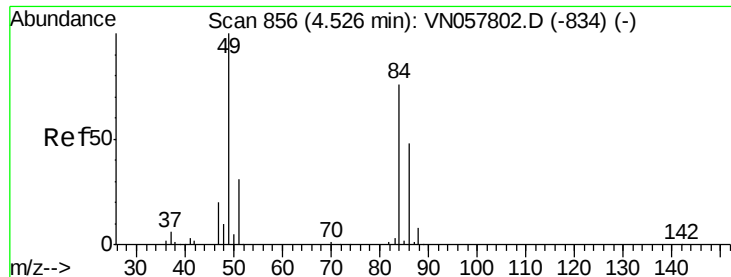
500

0

Time-->

4.25 4.30 4.35

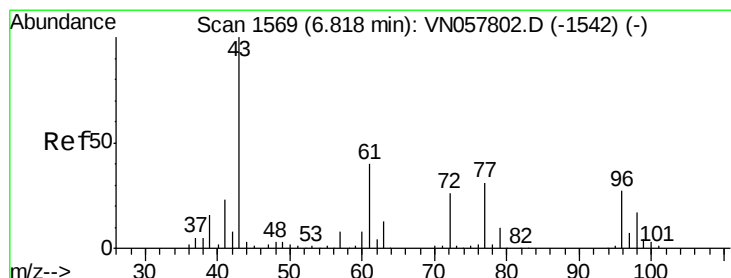
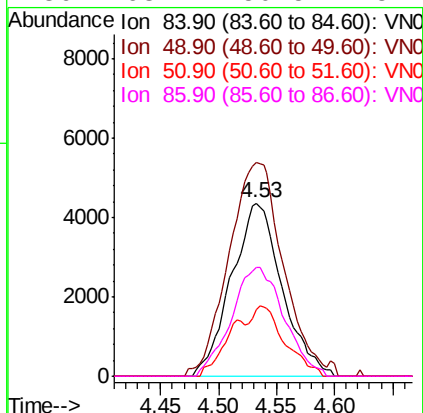
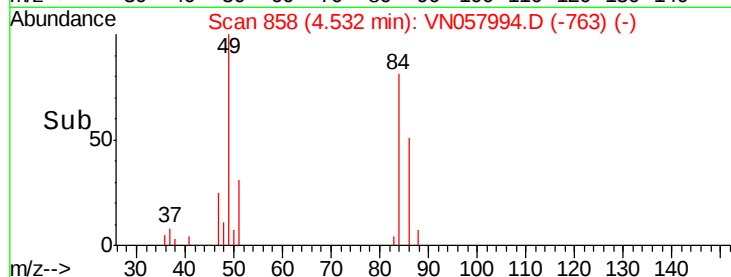
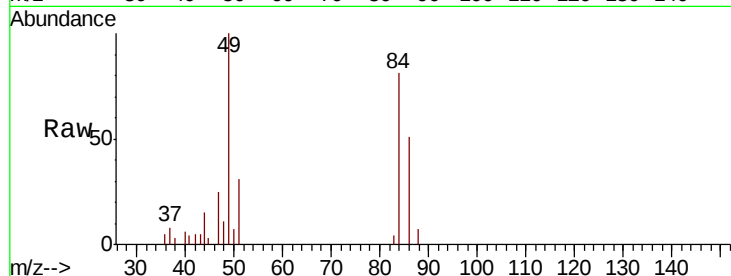




#20
Methylene Chloride
Concen: 3.306 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057994.D
Acq: 13 Sep 2019 00:53

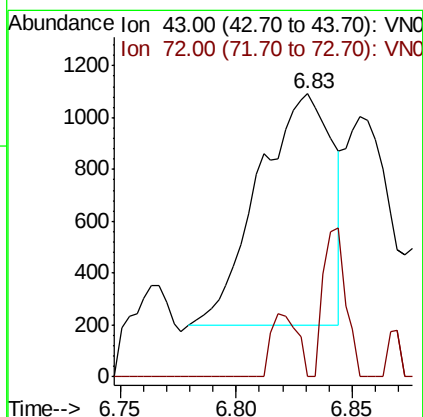
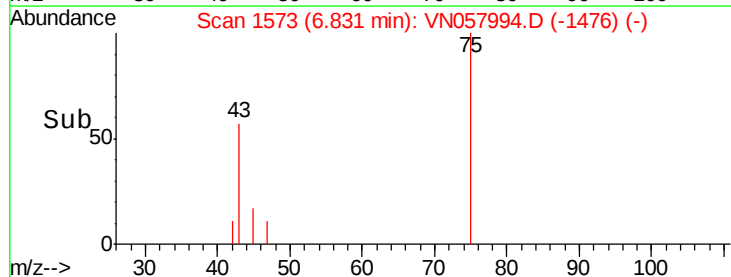
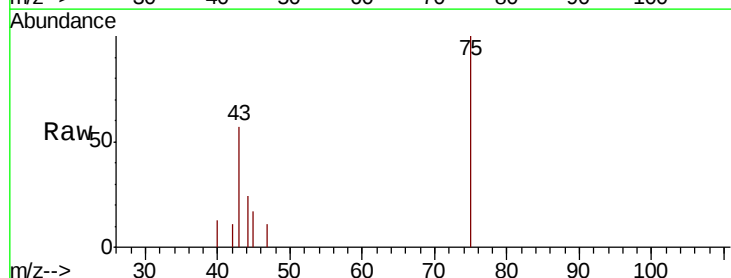
Instrument :
MSVOA_N
ClientSampleId :
T3-2-(1.5)

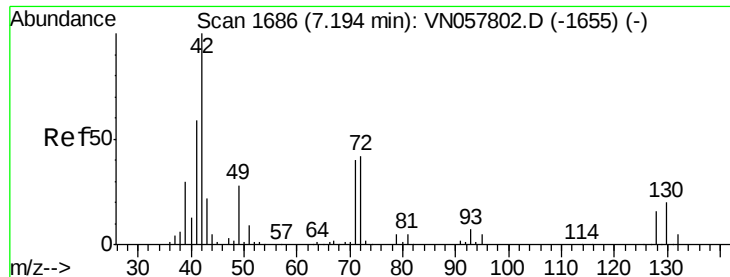
Tgt Ion: 84 Resp: 13249
Ion Ratio Lower Upper
84 100
49 123.4 104.8 157.2
51 38.2 33.0 49.4
86 63.1 50.5 75.7



#25
2-Butanone
Concen: 0.872 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057994.D
Acq: 13 Sep 2019 00:53

Tgt Ion: 43 Resp: 1972
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.378 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(1.5)

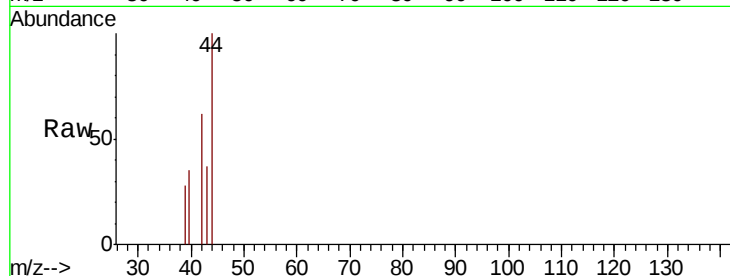
Tgt Ion: 42 Resp: 527

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

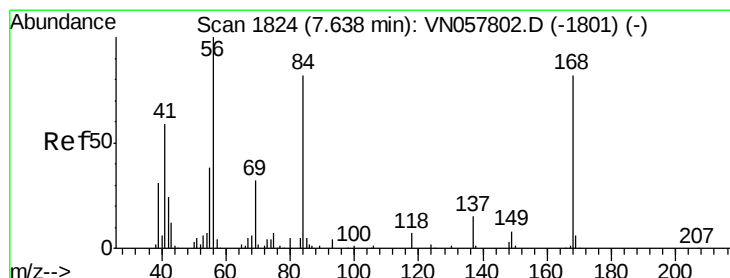
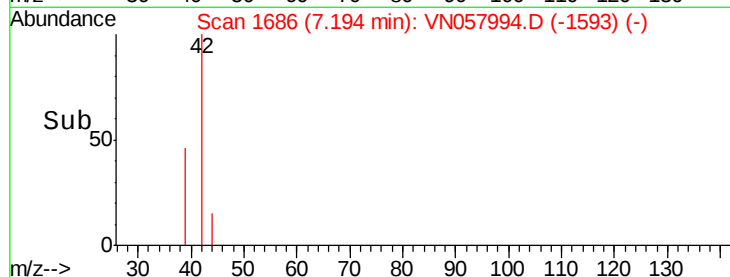
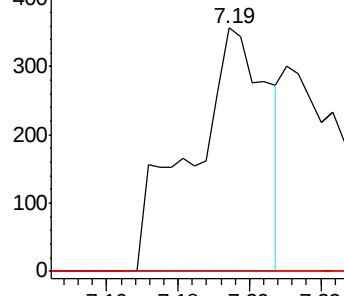
71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

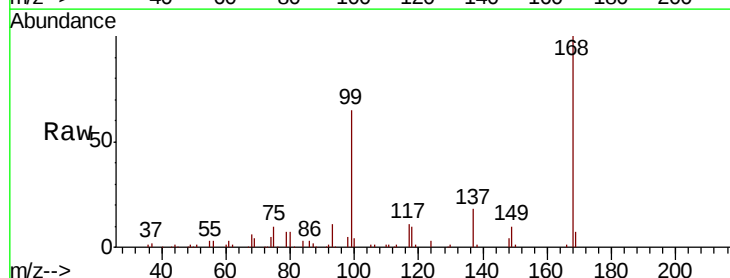
Tgt Ion: 56 Resp: 6314

Ion Ratio Lower Upper

56 100

69 151.0 25.9 38.9#

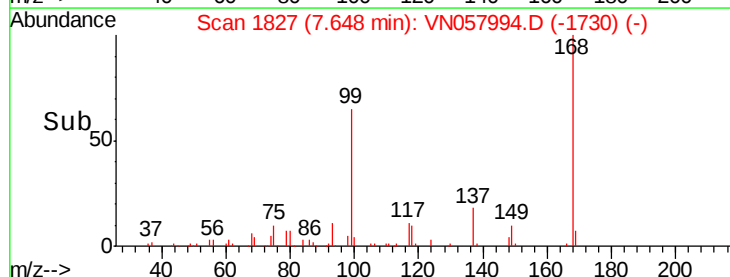
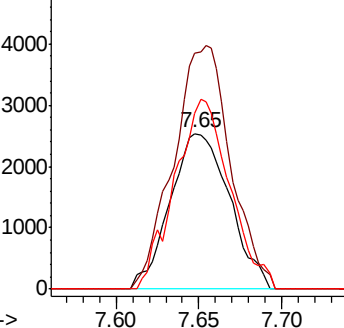
84 113.0 65.6 98.4#

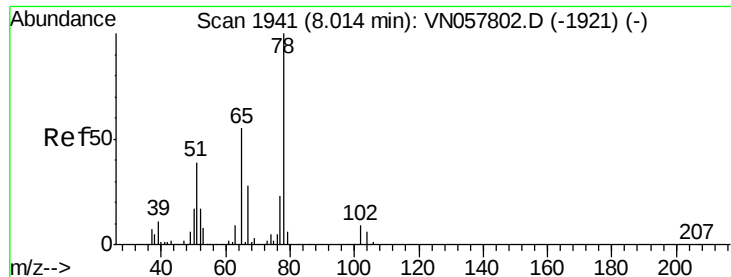


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

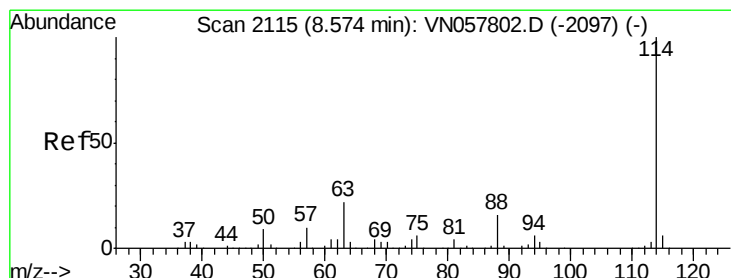
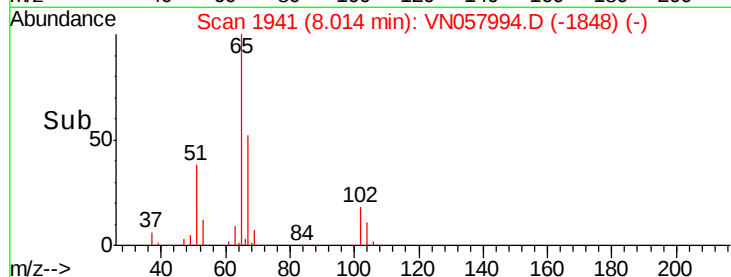
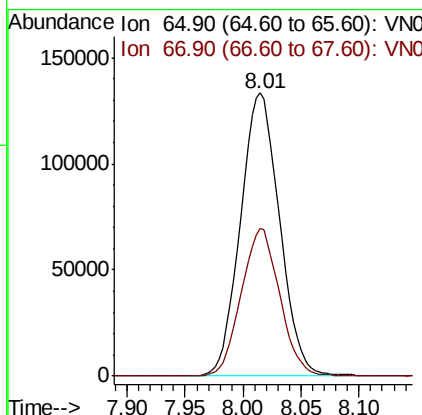
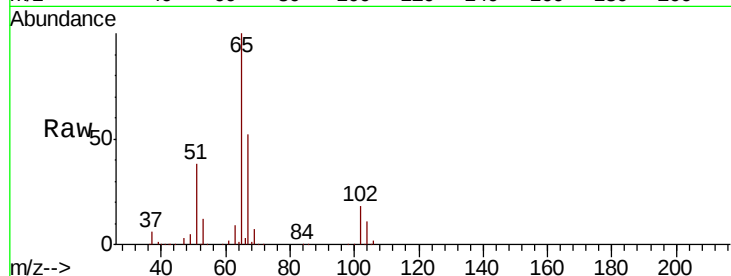




#33
 1,2-Dichloroethane-d4
 Concen: 65.771 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

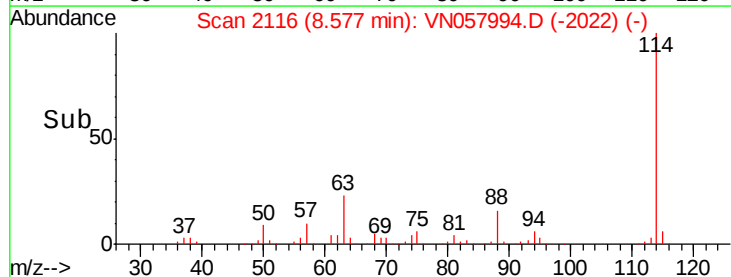
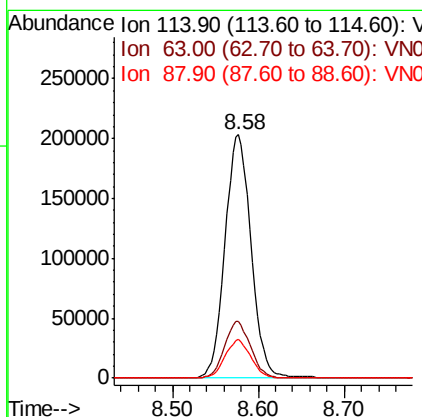
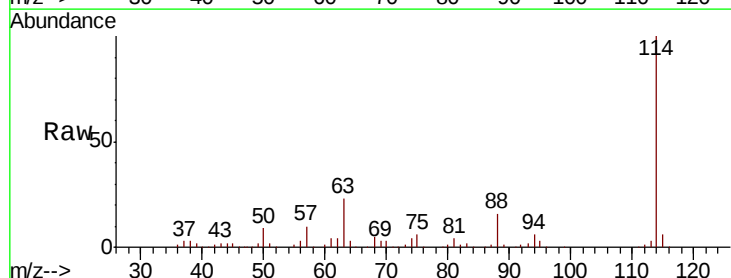
Instrument :
 MSVOA_N
 ClientSampled :
 T3-2-(1.5)

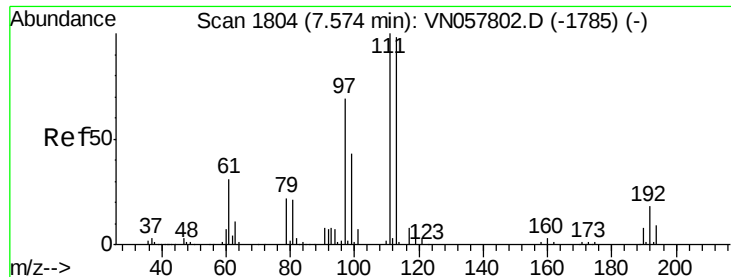
Tgt Ion: 65 Resp: 313399
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

Tgt Ion: 114 Resp: 428903
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 44.0
 88 15.7 0.0 31.4

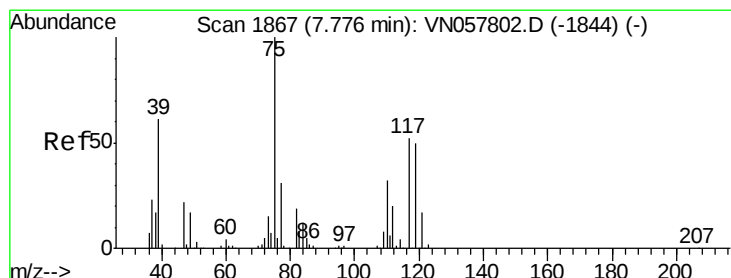
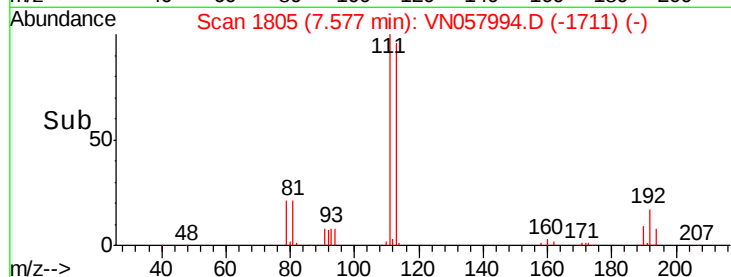
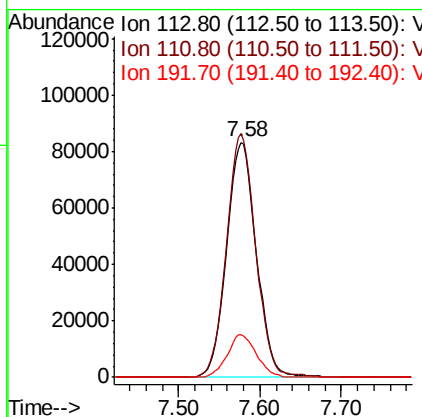
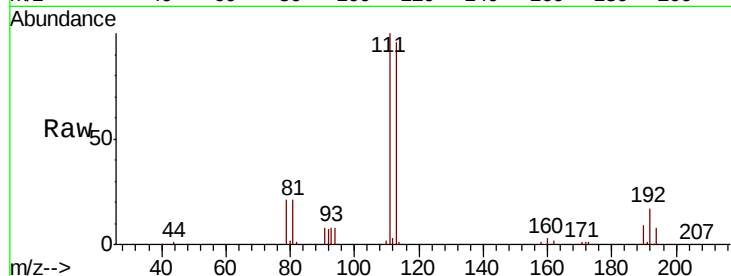




#35
 Dibromofluoromethane
 Concen: 53.647 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

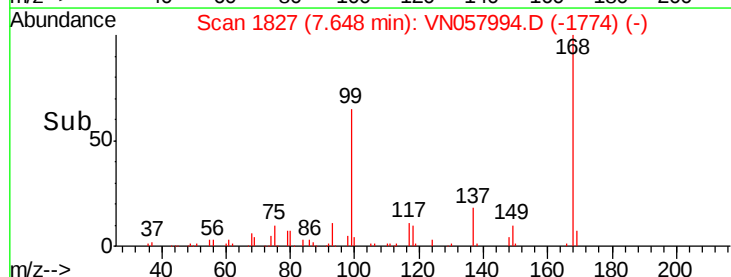
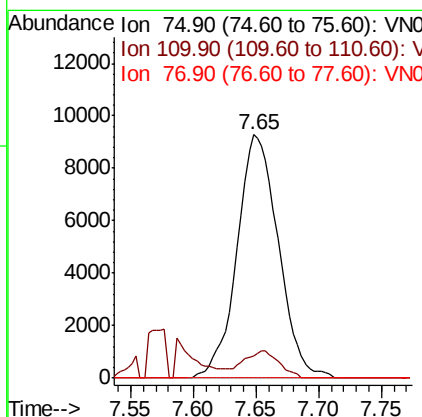
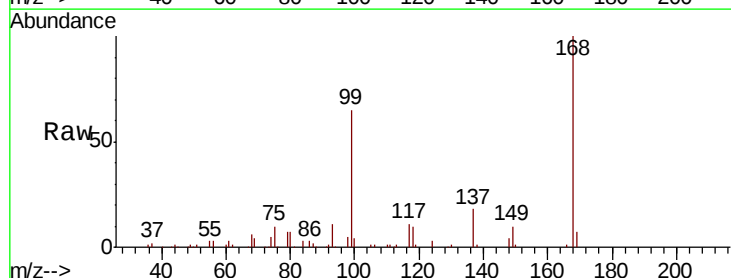
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(1.5)

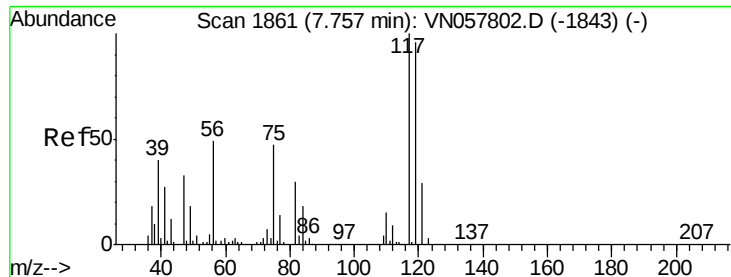
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.3	121.9
192	17.9	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.276 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.365 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(1.5)

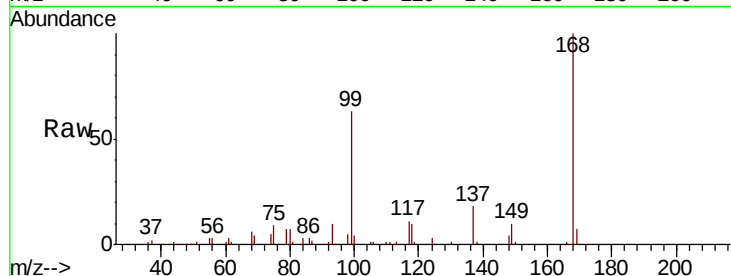
Tgt Ion:117 Resp: 24365

Ion Ratio Lower Upper

117 100

119 5.5 76.9 115.3#

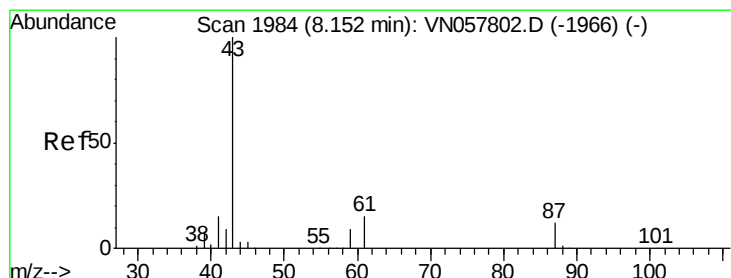
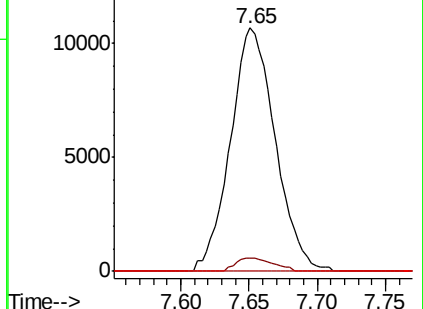
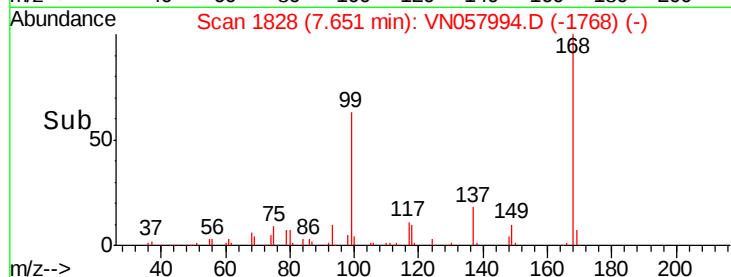
121 0.0 23.4 35.2#



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: 13.769 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

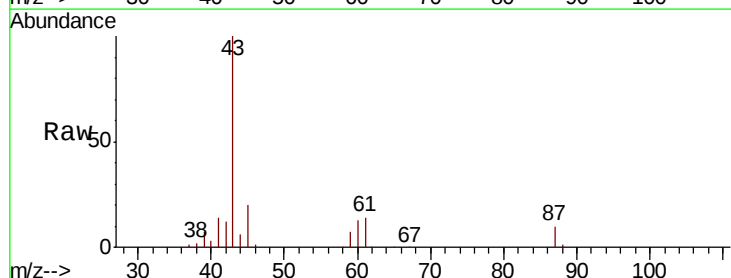
Tgt Ion: 43 Resp: 119002

Ion Ratio Lower Upper

43 100

61 13.3 20.1 30.1#

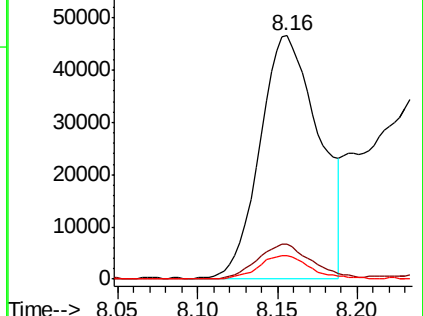
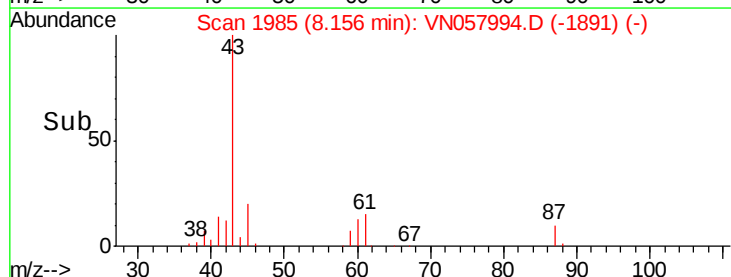
87 8.4 9.5 14.3#

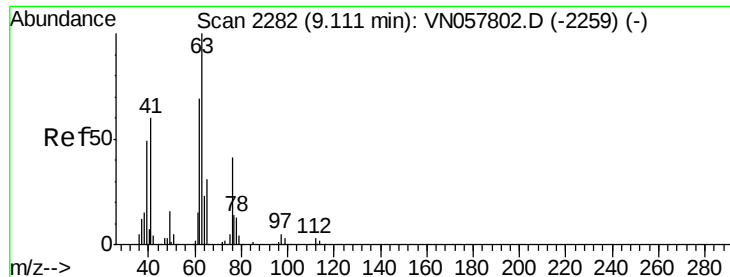


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

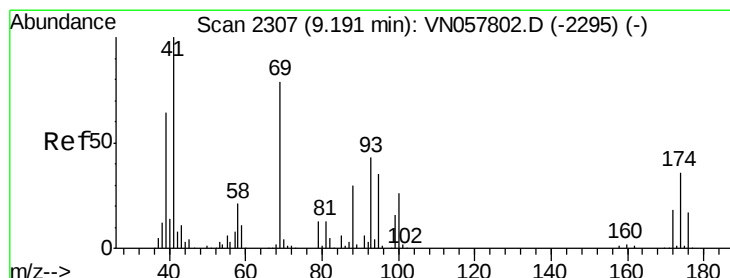
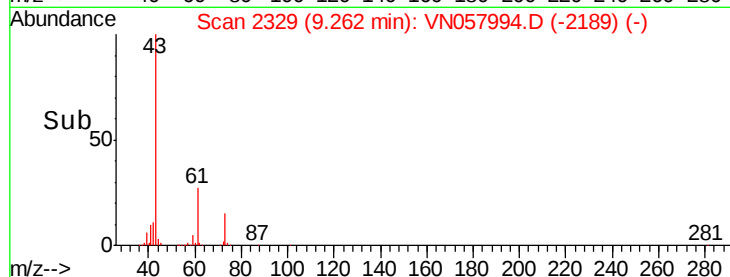
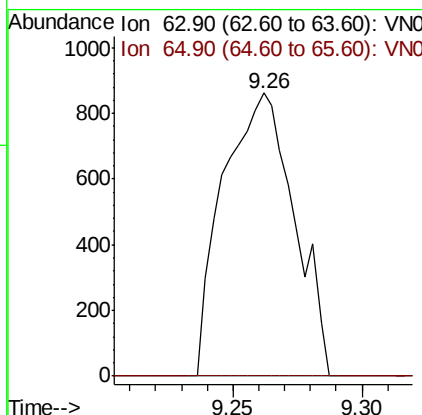
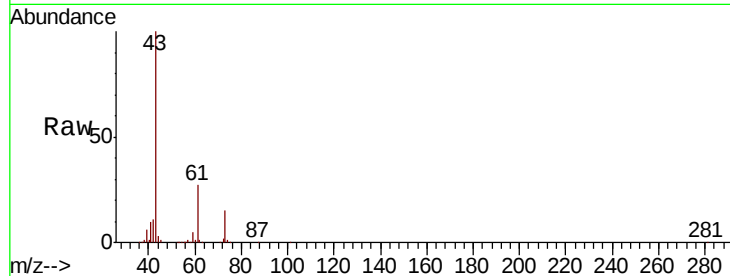




#45
 1,2-Dichloropropane
 Concen: 0.380 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

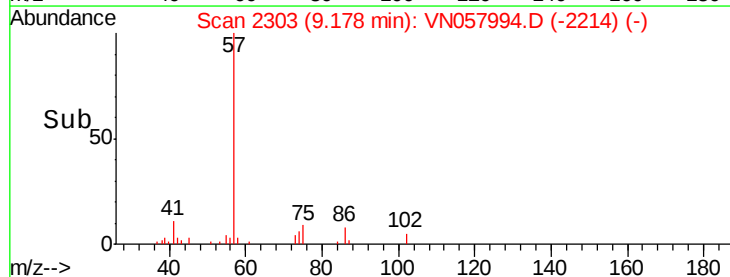
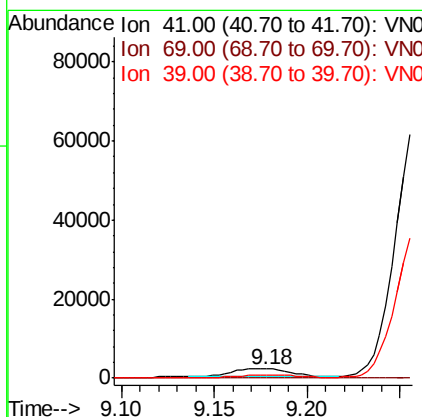
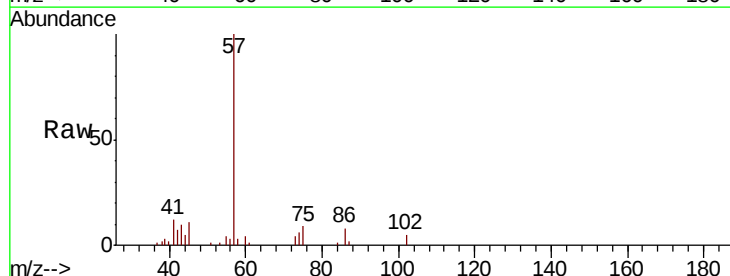
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(1.5)

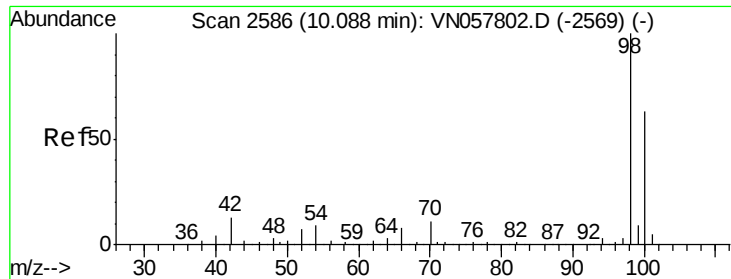
Tgt Ion: 63 Resp: 1658
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.019 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.01 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

Tgt Ion: 41 Resp: 4469
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 48.290 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

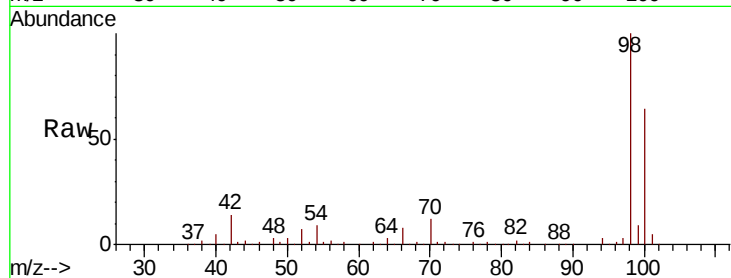
T3-2-(1.5)

Tgt Ion: 98 Resp: 742188

Ion Ratio Lower Upper

98 100

100 63.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

400000

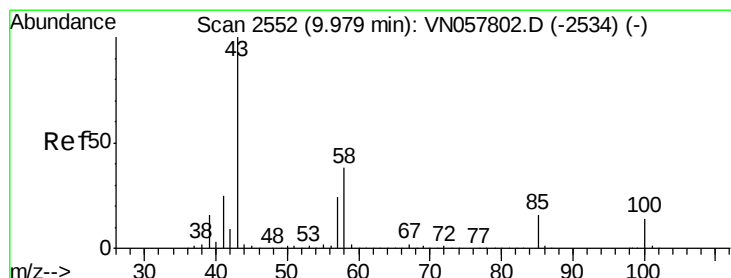
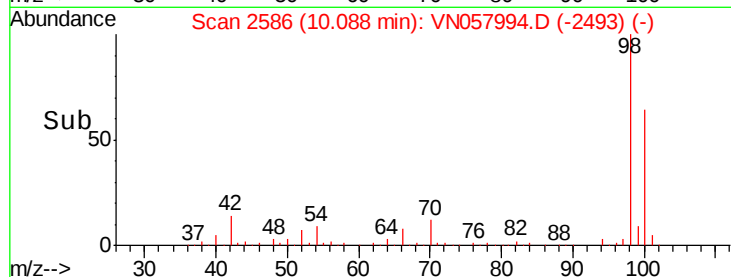
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.263 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057994.D

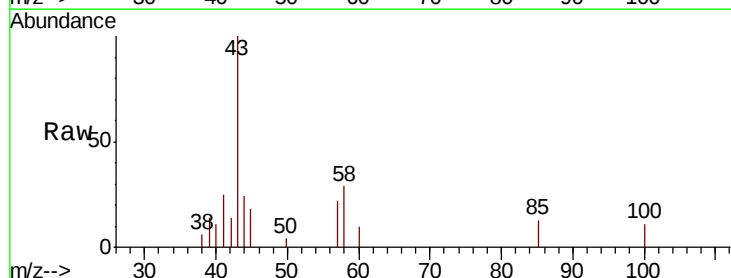
Acq: 13 Sep 2019 00:53

Tgt Ion: 43 Resp: 6460

Ion Ratio Lower Upper

43 100

58 38.7 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) (-)

9.99

5000

4000

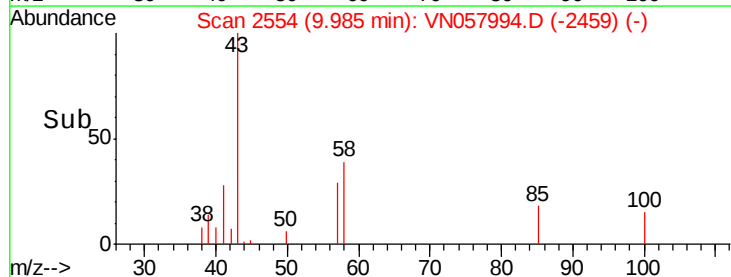
3000

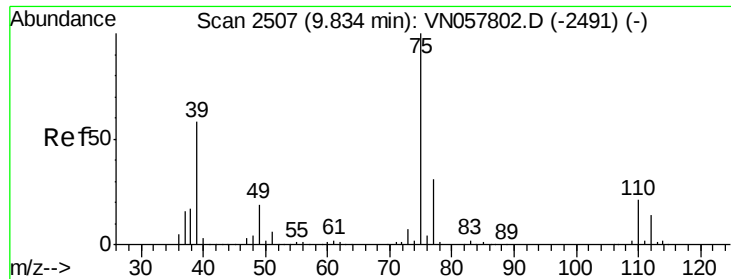
2000

1000

0

Time-->



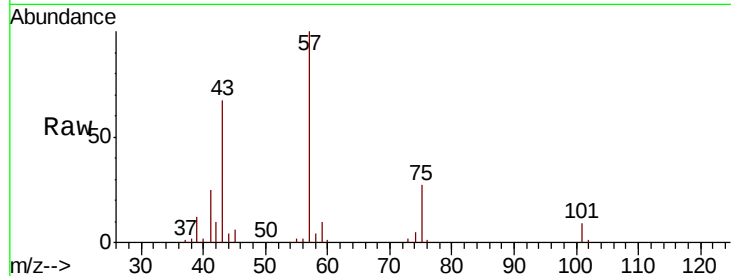


#54

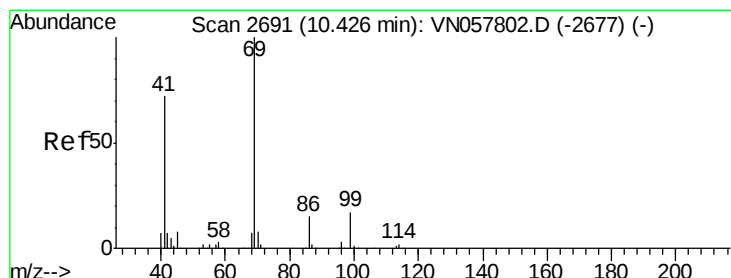
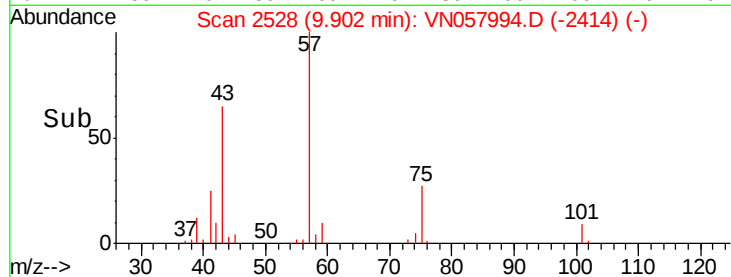
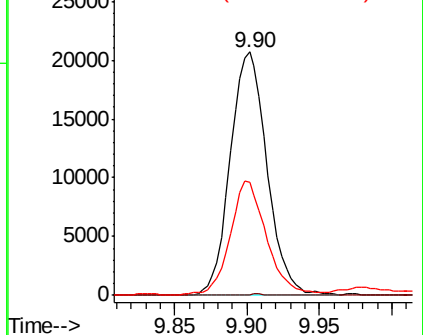
cis-1,3-Dichloropropene
 Concen: 5.963 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(1.5)

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	45.6	46.2	69.4#



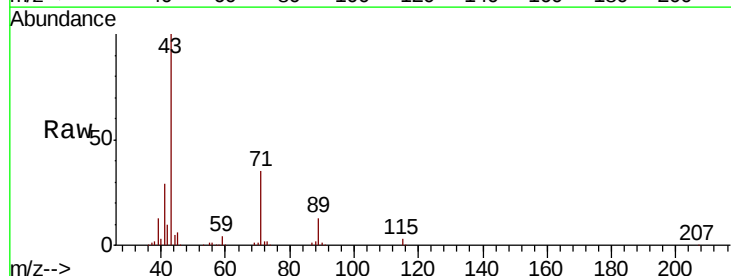
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



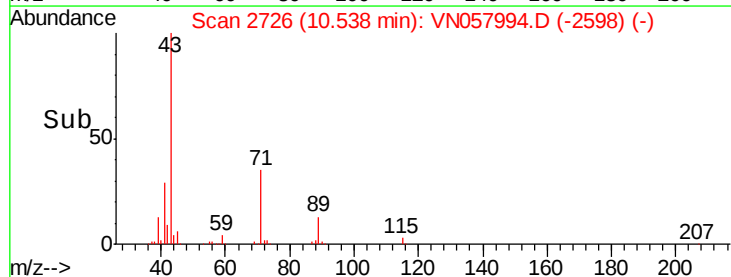
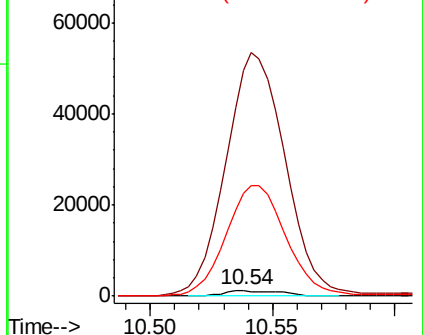
#56

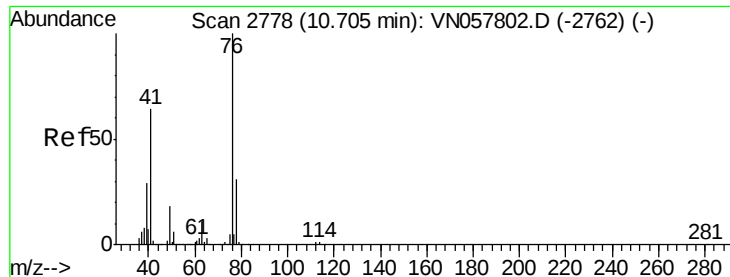
Ethyl methacrylate
 Concen: 0.323 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4699.4	56.7	85.1#
39	2150.2	36.3	54.5#



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

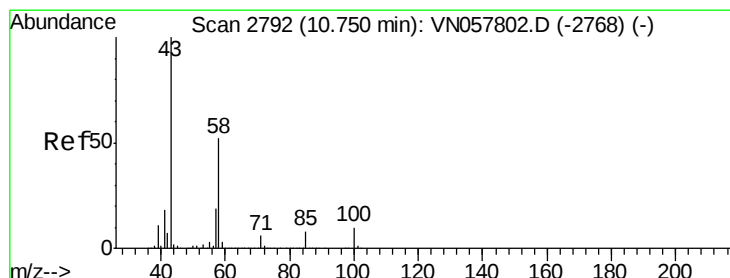
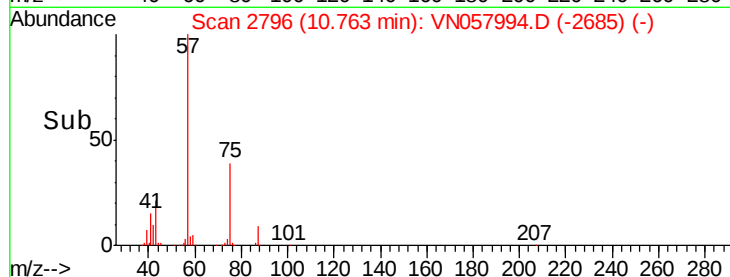
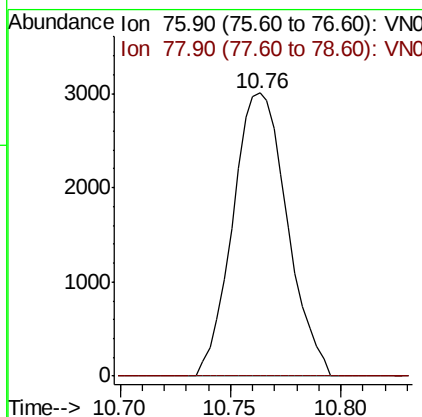
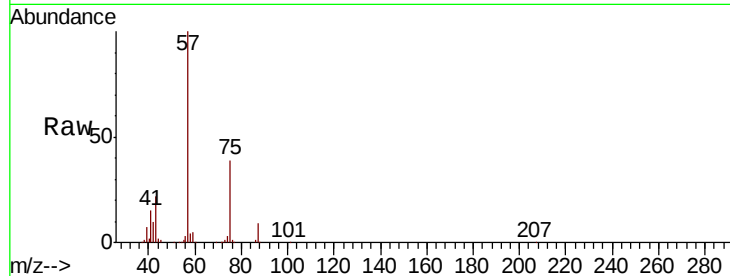




#57
 1,3-Dichloropropane
 Concen: 0.748 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

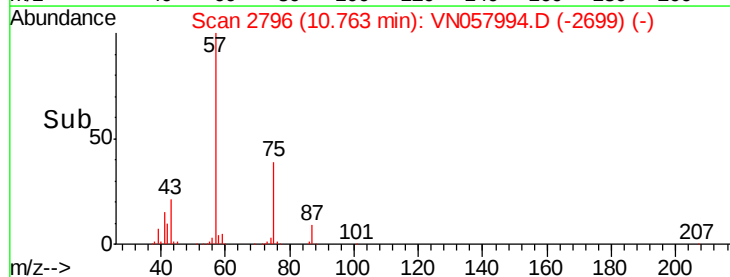
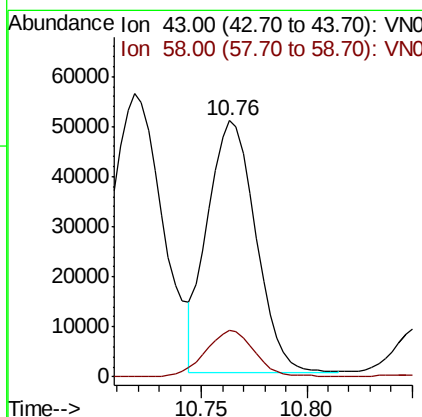
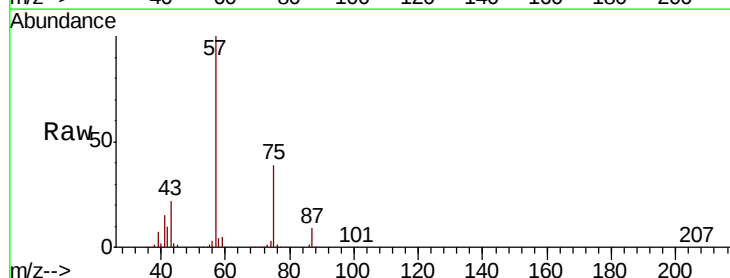
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(1.5)

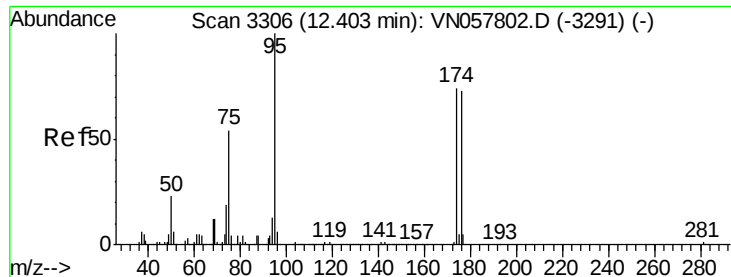
Tgt Ion: 76 Resp: 5150
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 20.881 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057994.D
 Acq: 13 Sep 2019 00:53

Tgt Ion: 43 Resp: 80046
 Ion Ratio Lower Upper
 43 100
 58 19.1 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 41.259 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(1.5)

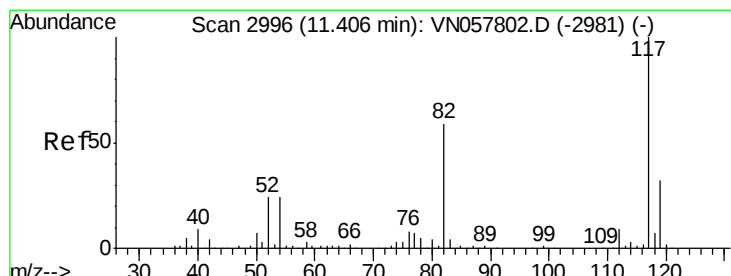
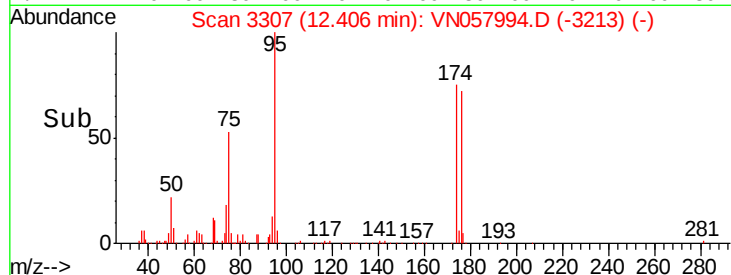
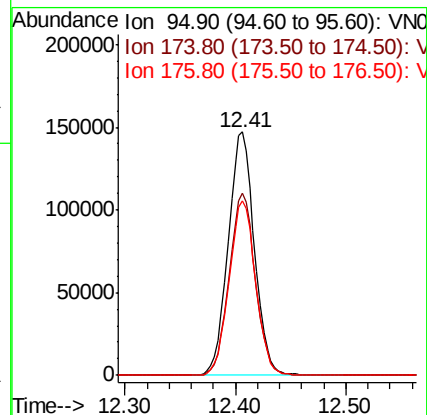
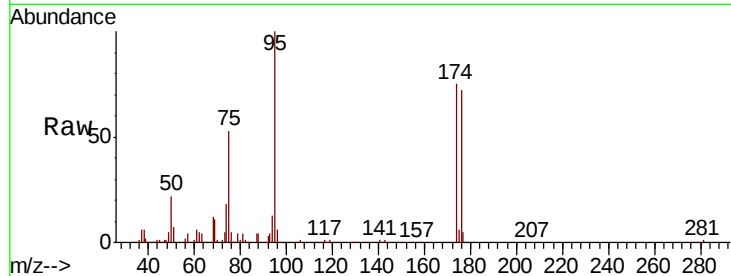
Tgt Ion: 95 Resp: 241657

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.2

176 72.6 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: VN057994.D

Acq: 13 Sep 2019 00:53

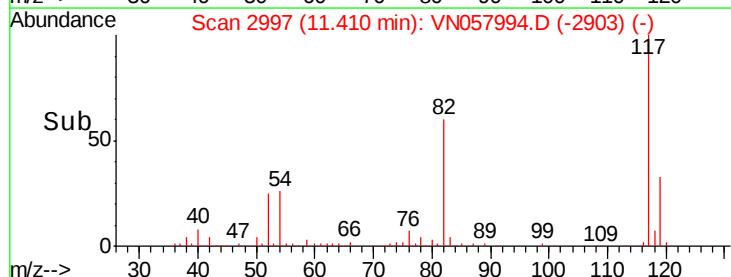
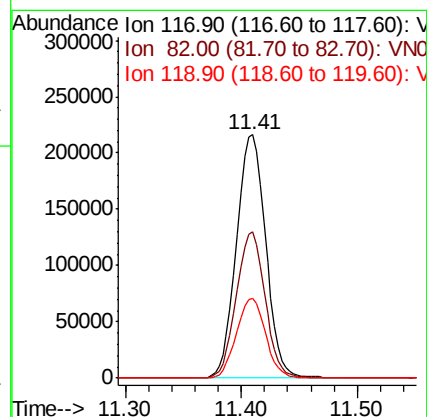
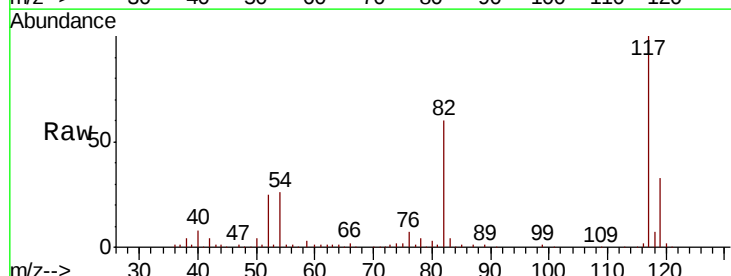
Tgt Ion: 117 Resp: 376978

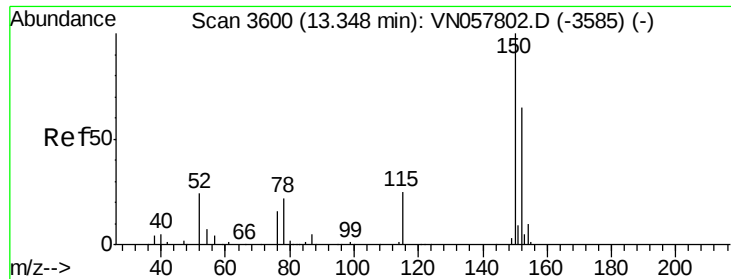
Ion Ratio Lower Upper

117 100

82 59.9 47.2 70.8

119 32.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(1.5)

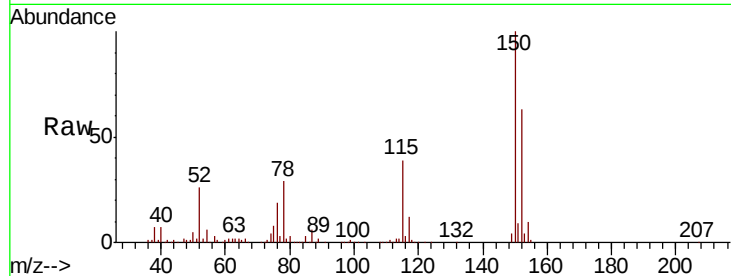
Tgt Ion:152 Resp: 183860

Ion Ratio Lower Upper

152 100

115 61.3 30.3 91.0

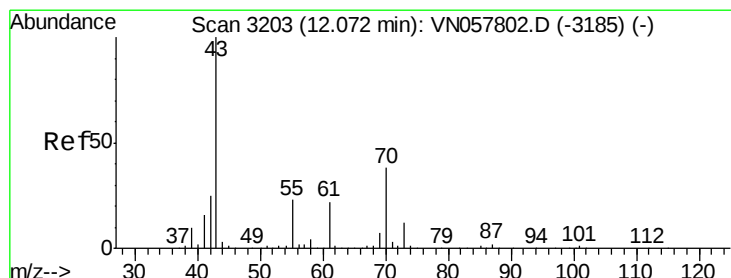
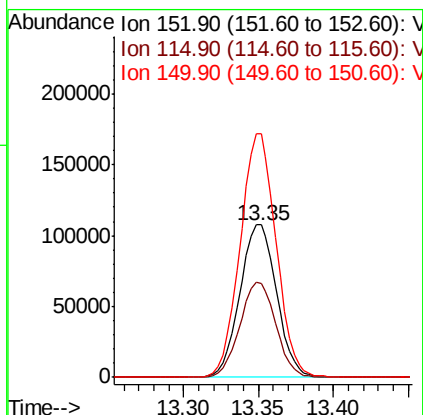
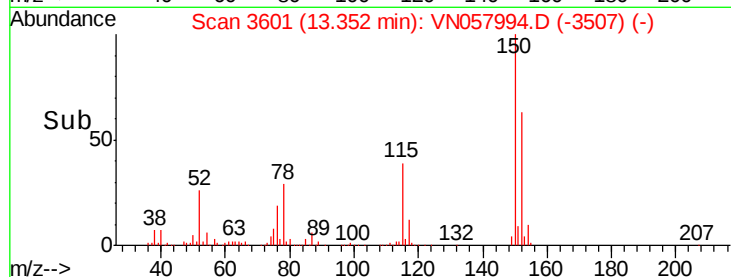
150 156.3 0.0 352.4



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: 0.524 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Tgt Ion: 43 Resp: 3256

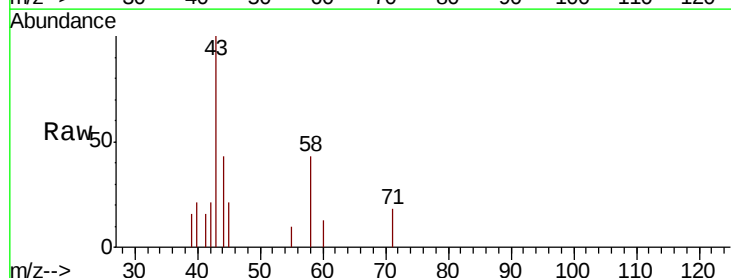
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.1 18.6 27.8#

61 0.0 17.4 26.2#

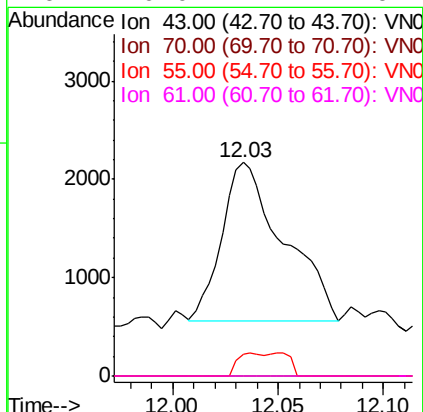
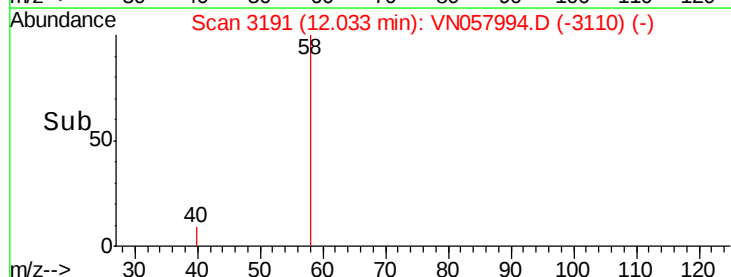


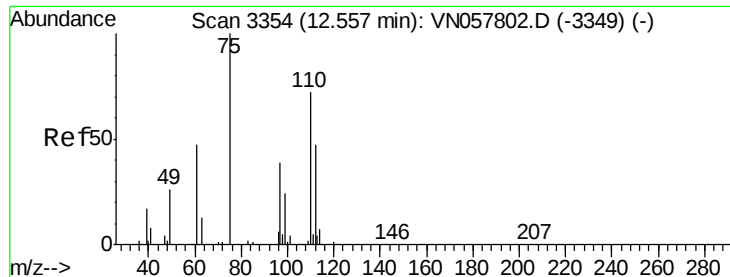
Abundance Ion 43.00 (42.70 to 43.70): VNO

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





#76

1,2,3-Trichloropropane

Concen: 31.604 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

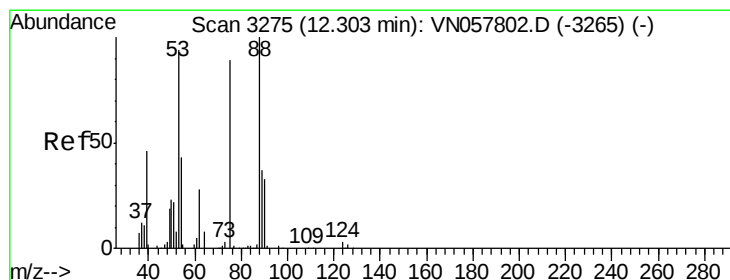
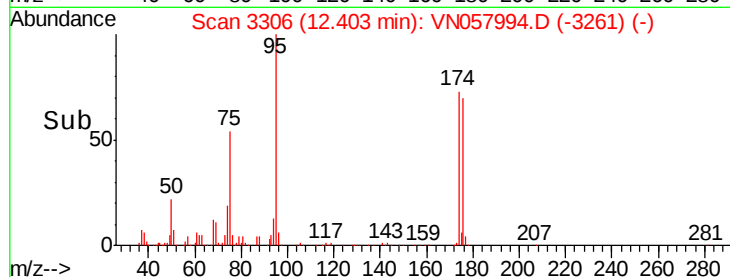
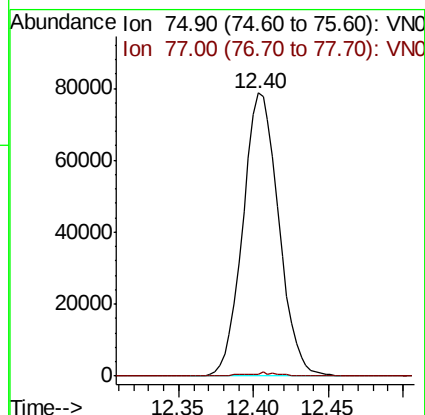
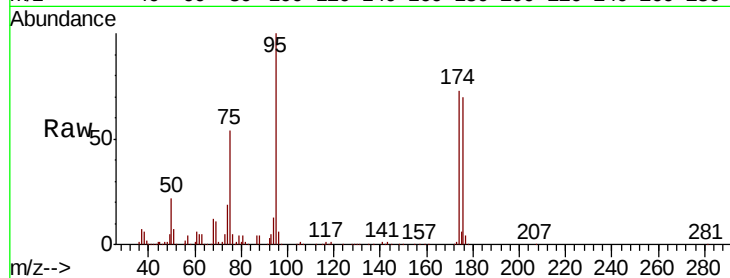
T3-2-(1.5)

Tgt Ion: 75 Resp: 131448

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 111.215 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

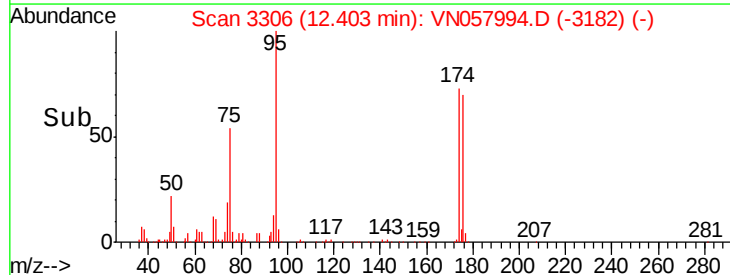
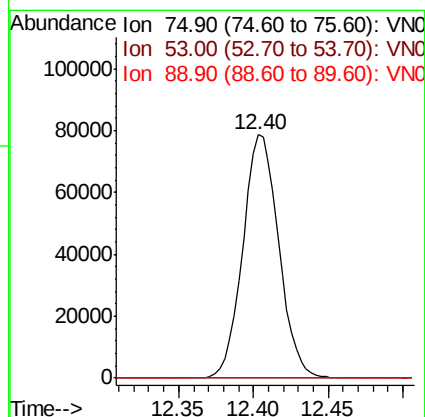
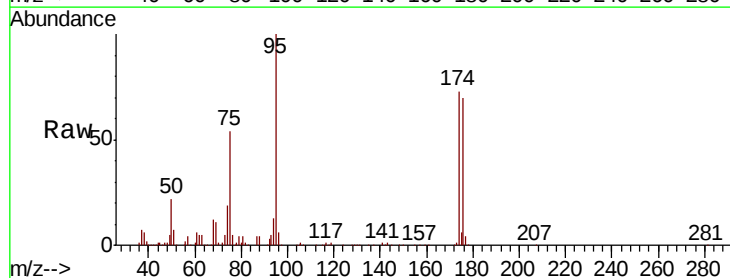
Tgt Ion: 75 Resp: 131448

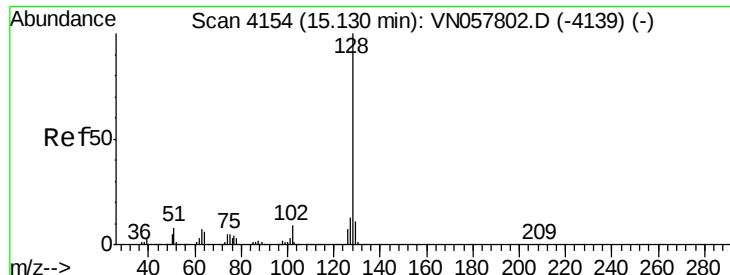
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057994.D

Acq: 13 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(1.5)

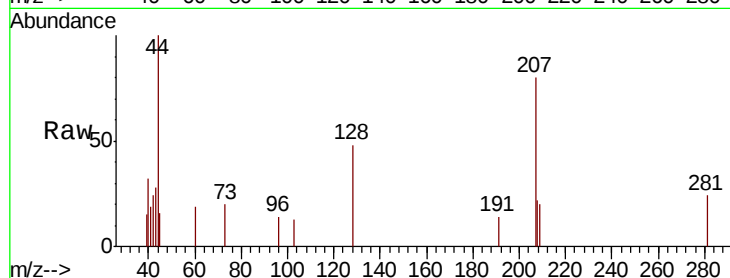
Tgt Ion:128 Resp: 509

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 6.1 8.6 12.8#



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

