

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN058000.D
 Acq On : 13 Sep 2019 3:05
 Operator : JC/SP
 Sample : K4644-30
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E2-(4)

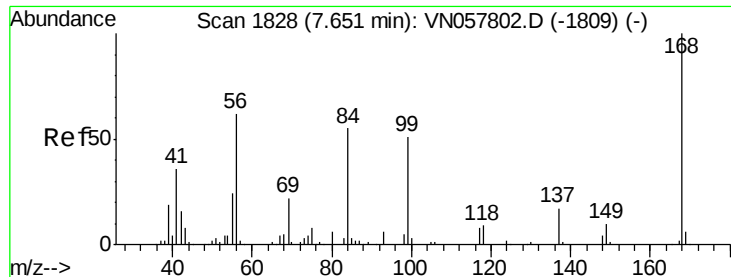
Quant Time: Sep 13 04:54:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	267032	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	460664	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	421710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	215855	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	317353	58.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.36%	
35) Dibromofluoromethane	7.58	113	214956	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
50) Toluene-d8	10.09	98	830693	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.41	95	275947	43.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	78	Below Cal	#	2
14) Allyl chloride	4.31	41	1284	0.231	ug/l #	21
16) Acetone	3.80	43	15986	9.016	ug/l	100
18) Methyl Acetate	4.30	43	74556	15.771	ug/l	99
20) Methylene Chloride	4.53	84	7803	1.108	ug/l #	84
25) 2-Butanone	6.83	43	4029	1.570	ug/l	98
31) Cyclohexane	7.65	56	7402	Below Cal	#	37
36) 1,1-Dichloropropene	7.65	75	23120	4.328	ug/l #	50
38) Carbon Tetrachloride	7.65	117	27989	5.738	ug/l #	16
43) Isopropyl Acetate	8.16	43	20596	2.219	ug/l #	78
48) Methyl methacrylate	9.18	41	3253	0.691	ug/l #	21
51) 4-Methyl-2-Pentanone	9.98	43	5469	0.996	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	16996	2.588	ug/l #	74
56) Ethyl methacrylate	10.54	69	1451	0.225	ug/l #	1
59) 2-Hexanone	10.77	43	13500	3.279	ug/l #	60
74) N-amyl acetate	12.04	43	1819	0.250	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	151355	30.996	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151355	109.076	ug/l #	6
95) Naphthalene	15.14	128	399	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058000.D

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ClientSampleId :

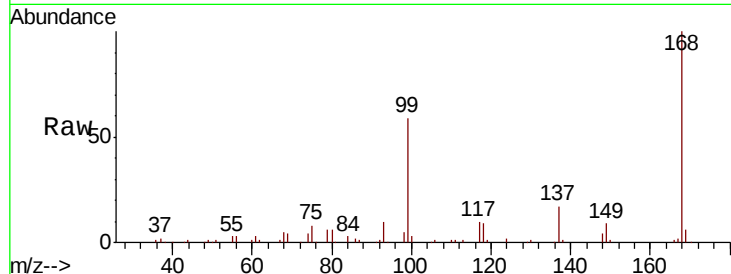
T11-E2-(4)

Tgt Ion:168 Resp: 267032

Ion Ratio Lower Upper

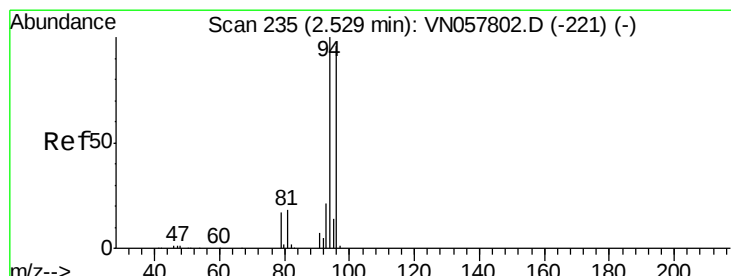
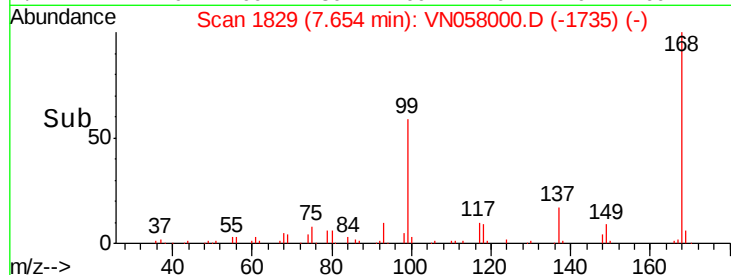
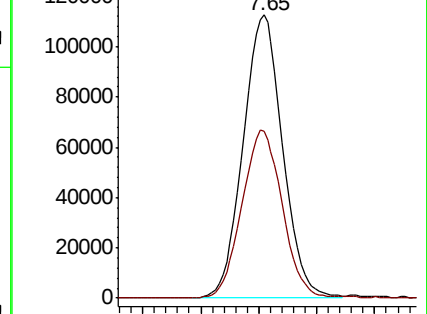
168 100

99 59.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN058000.D

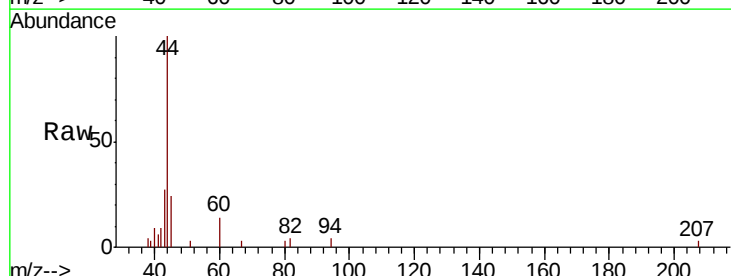
Acq: 13 Sep 2019 3:05

Tgt Ion: 94 Resp: 78

Ion Ratio Lower Upper

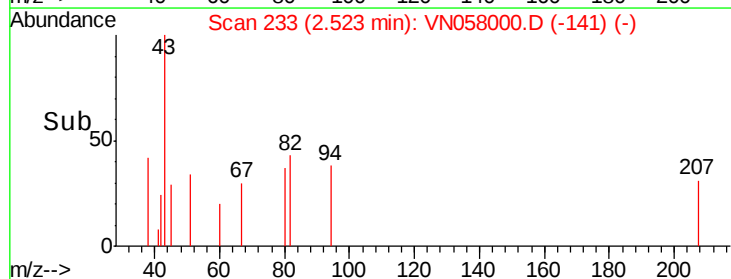
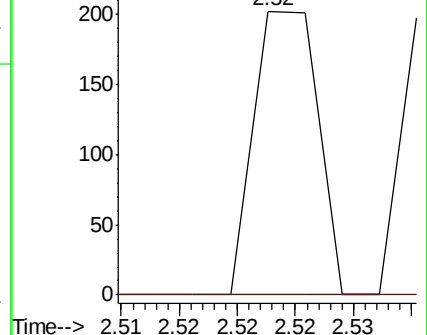
94 100

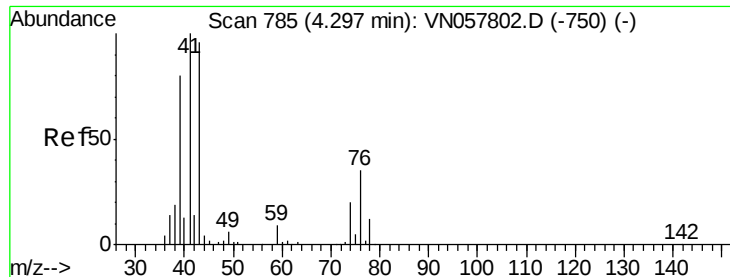
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

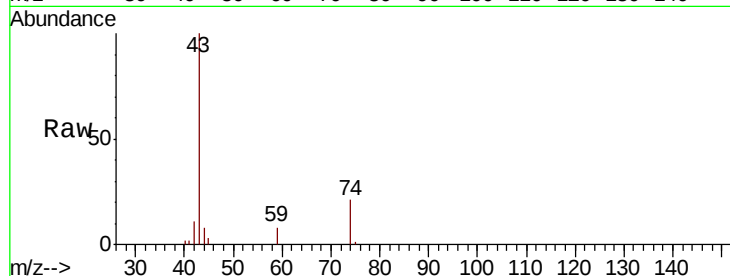




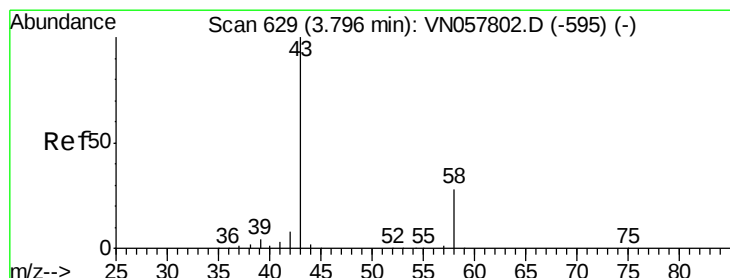
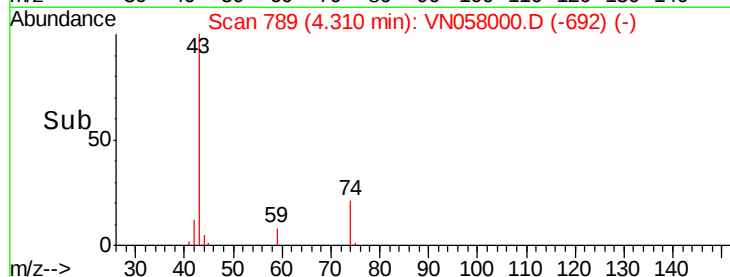
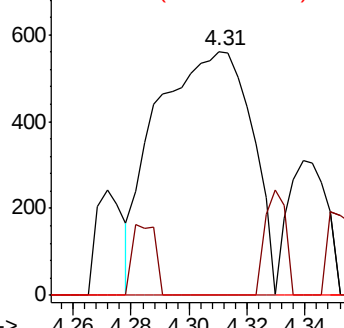
#14
 Allyl chloride
 Concen: 0.231 ug/l
 RT: 4.31 min Scan# 789
 Delta R.T. 0.01 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E2-(4)

Tgt Ion: 41 Resp: 1284
 Ion Ratio Lower Upper
 41 100
 39 0.0 59.4 89.2#
 76 0.0 26.0 39.0#

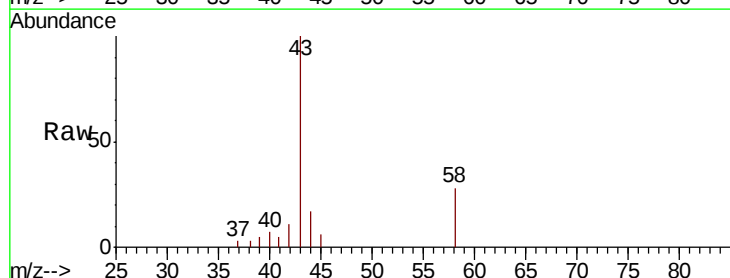


Abundance Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO
 Ion 75.90 (75.60 to 76.60): VNO

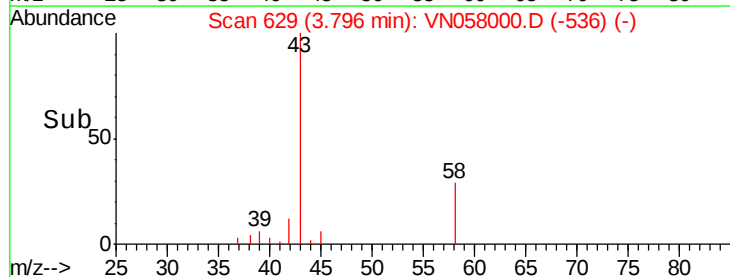
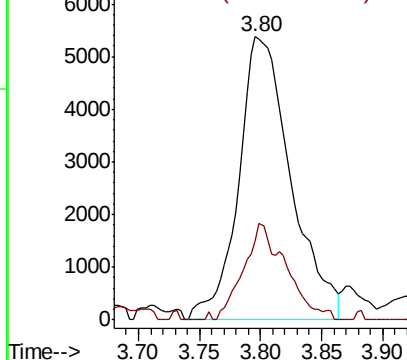


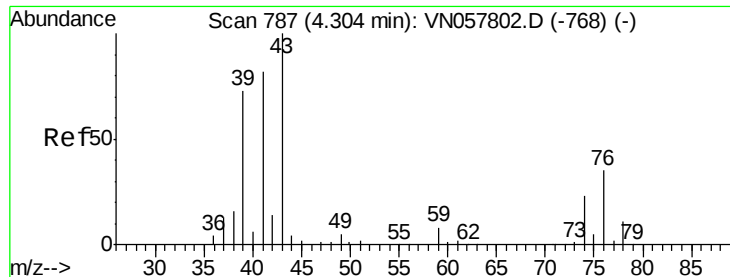
#16
 Acetone
 Concen: 9.016 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

Tgt Ion: 43 Resp: 15986
 Ion Ratio Lower Upper
 43 100
 58 27.6 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

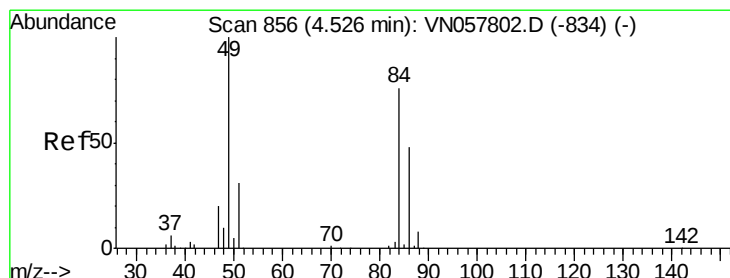
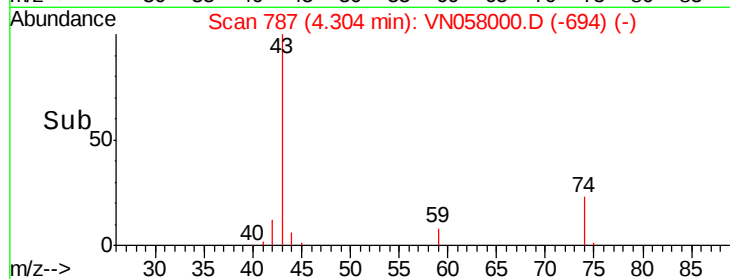
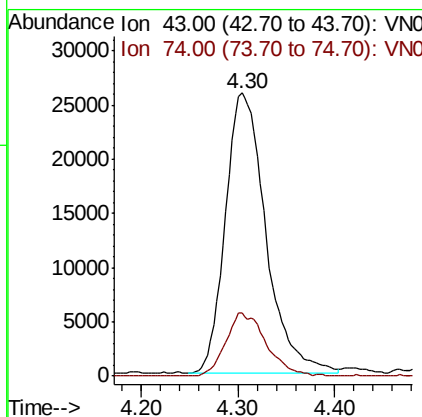
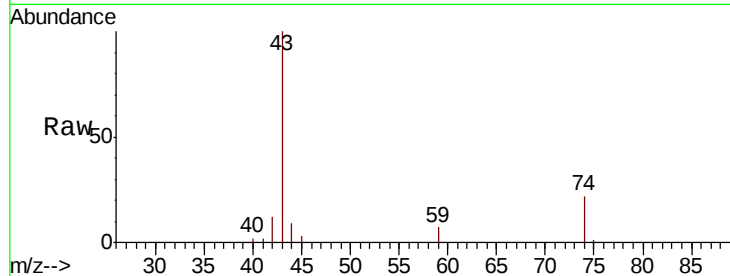




#18
Methyl Acetate
Concen: 15.771 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

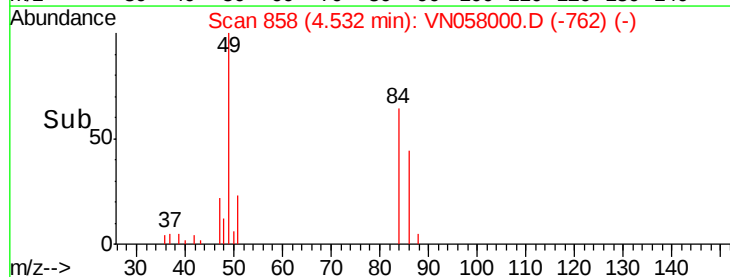
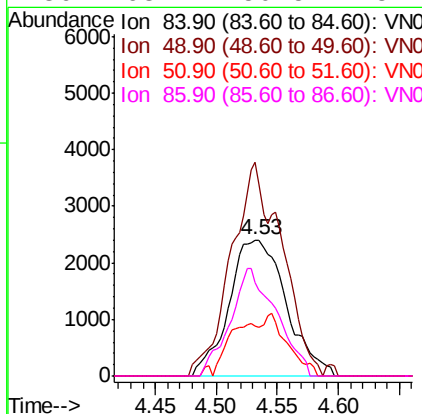
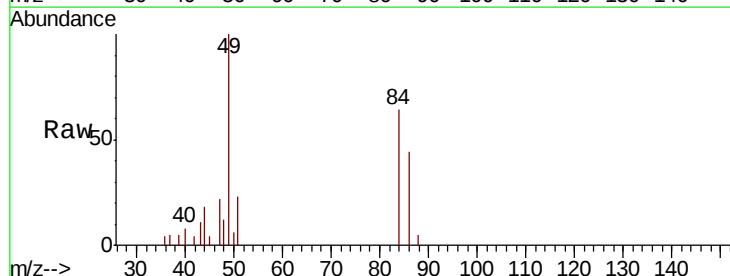
Instrument :
MSVOA_N
ClientSampleId :
T11-E2-(4)

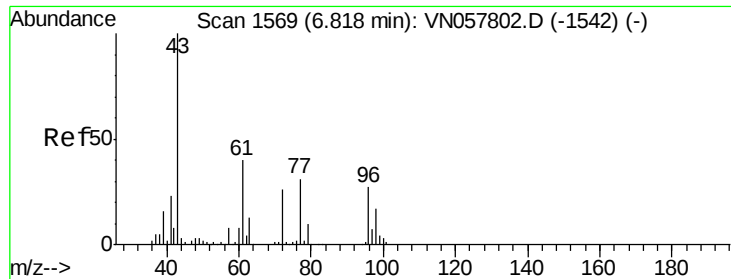
Tgt Ion: 43 Resp: 74556
Ion Ratio Lower Upper
43 100
74 22.7 17.9 26.9



#20
Methylene Chloride
Concen: 1.108 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

Tgt Ion: 84 Resp: 7803
Ion Ratio Lower Upper
84 100
49 157.3 104.8 157.2#
51 36.9 33.0 49.4
86 68.7 50.5 75.7

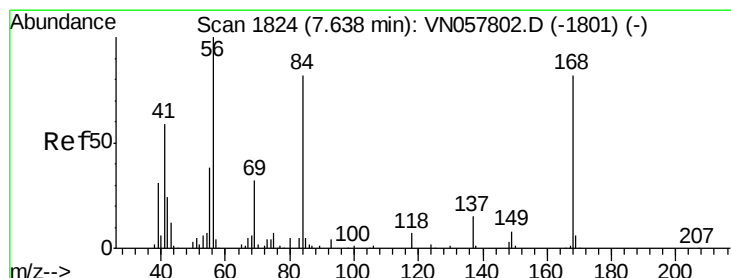
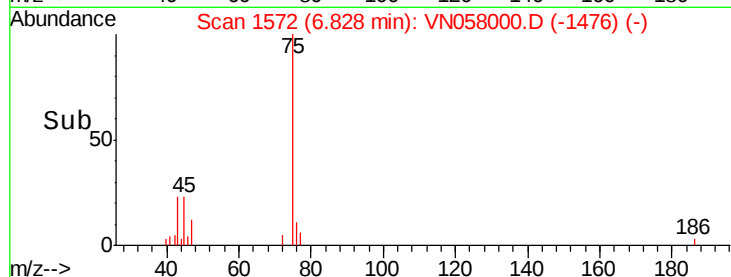
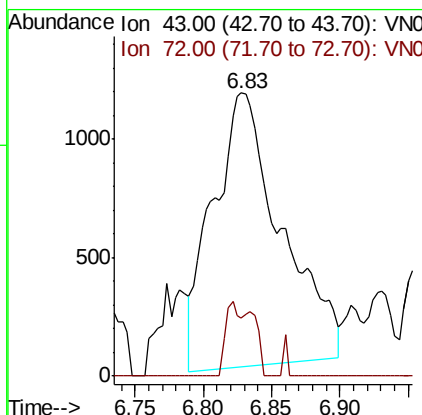
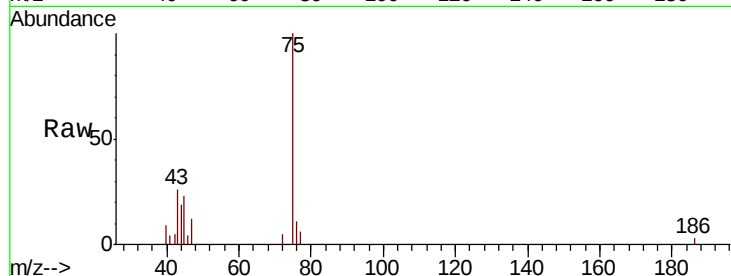




#25
2-Butanone
Concen: 1.570 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

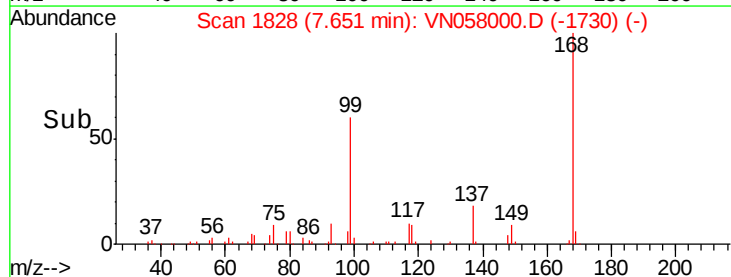
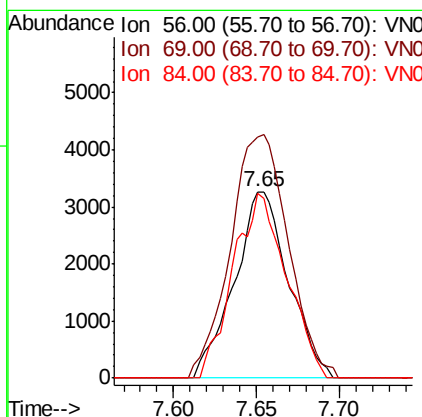
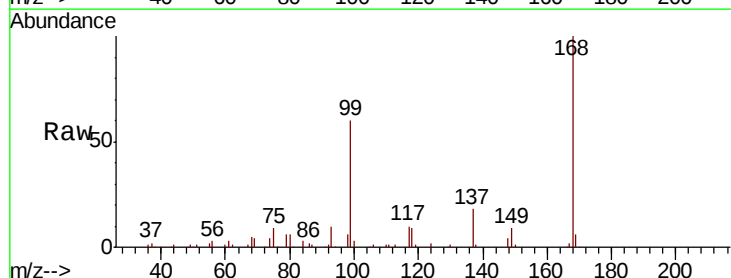
Instrument :
MSVOA_N
ClientSampled :
T11-E2-(4)

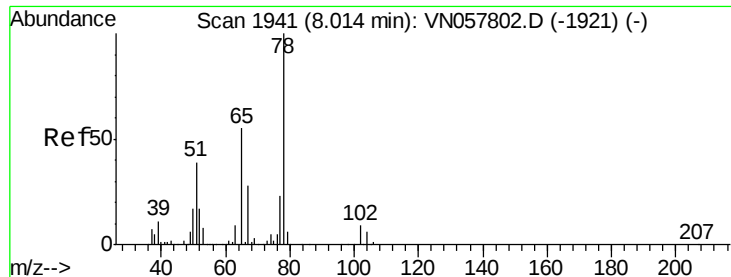
Tgt Ion: 43 Resp: 4029
Ion Ratio Lower Upper
43 100
72 24.6 20.6 30.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

Tgt Ion: 56 Resp: 7402
Ion Ratio Lower Upper
56 100
69 129.5 25.9 38.9#
84 99.3 65.6 98.4#

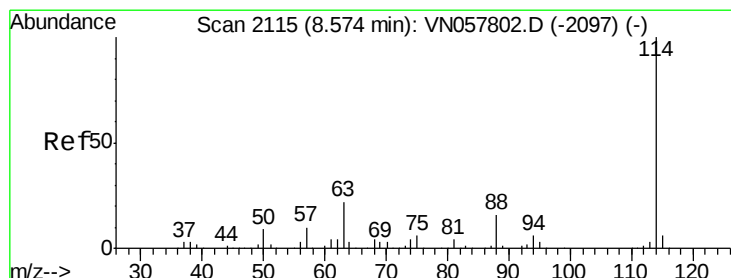
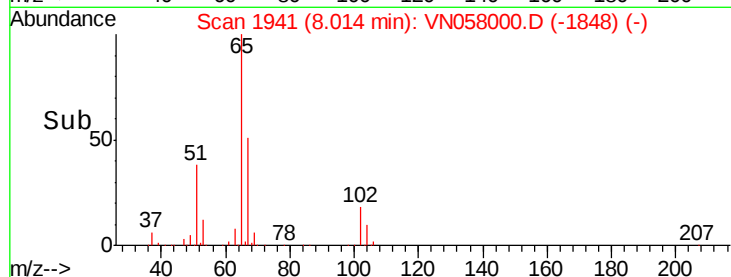
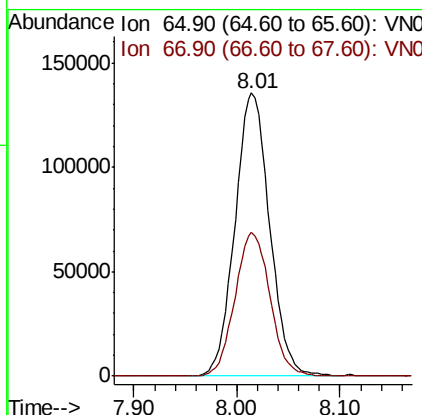
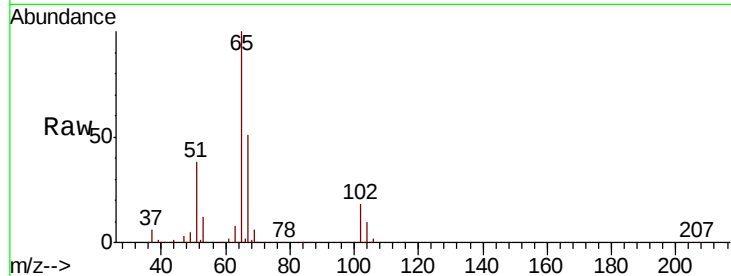




#33
 1,2-Dichloroethane-d4
 Concen: 58.676 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

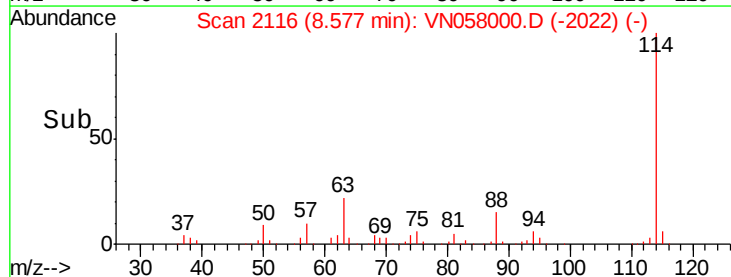
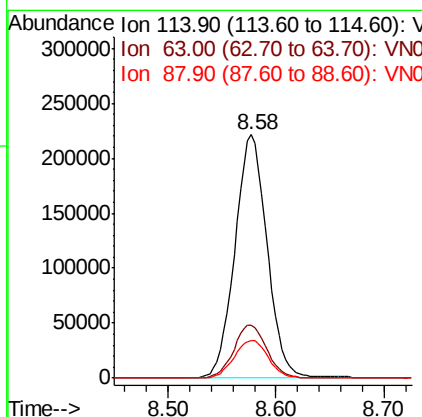
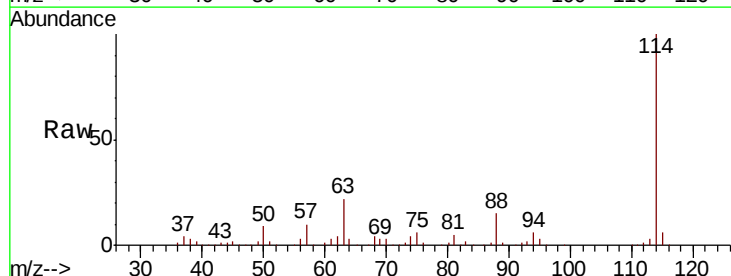
Instrument :
 MSVOA_N
 ClientSampled :
 T11-E2-(4)

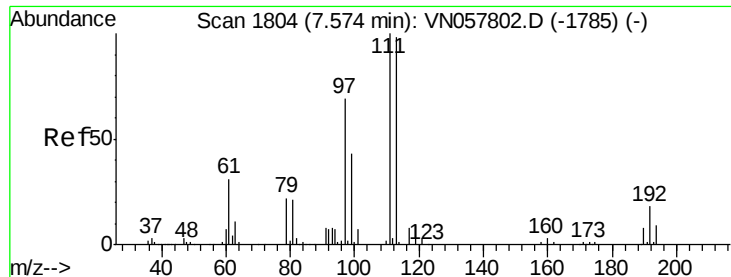
Tgt Ion: 65 Resp: 317353
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

Tgt Ion: 114 Resp: 460664
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 44.0
 88 15.3 0.0 31.4

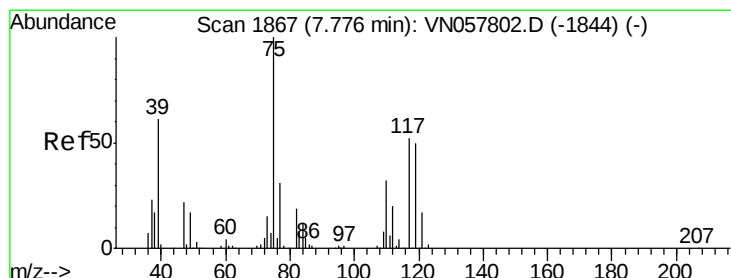
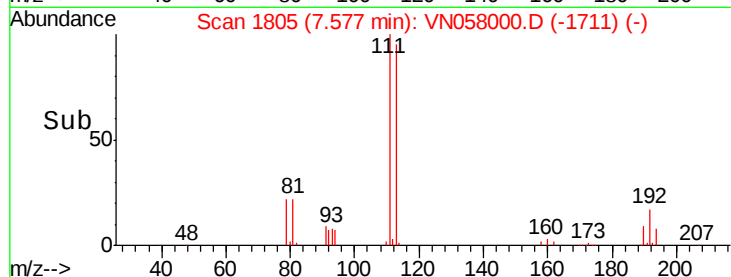
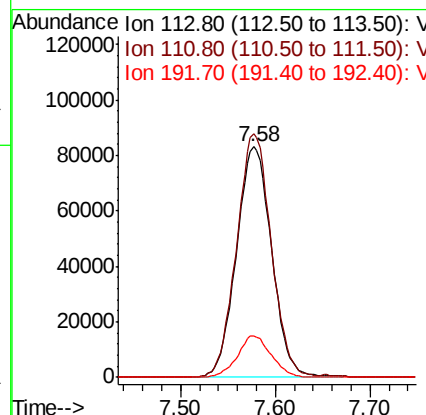
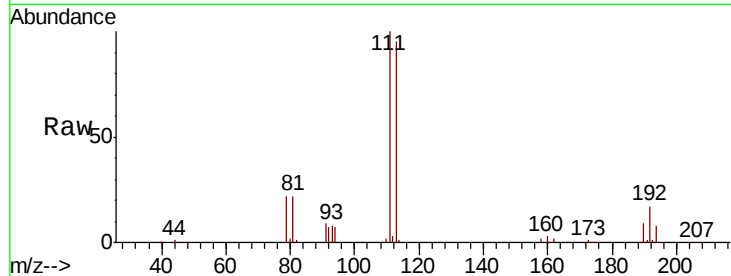




#35
 Dibromofluoromethane
 Concen: 50.557 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

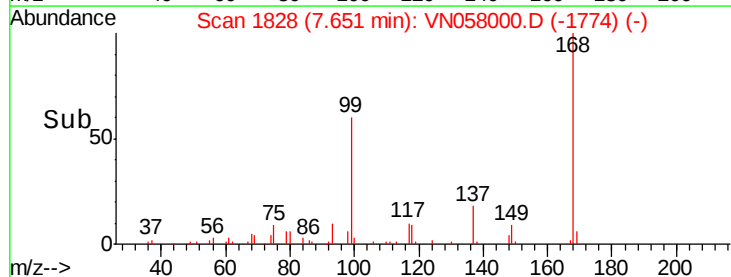
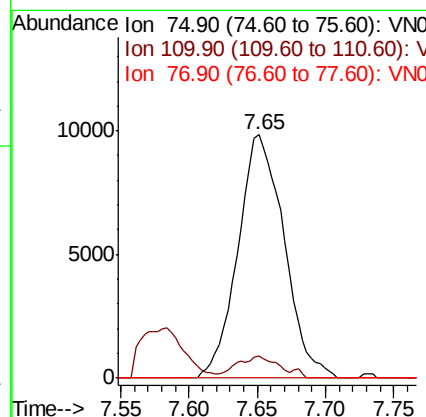
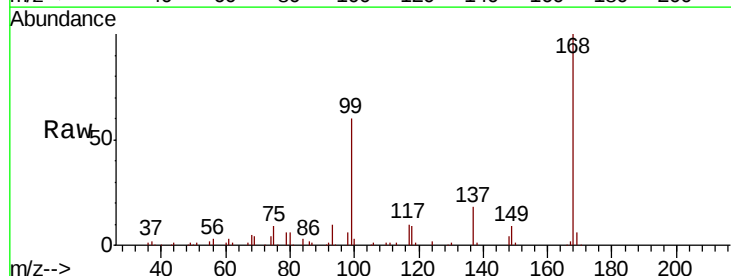
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E2-(4)

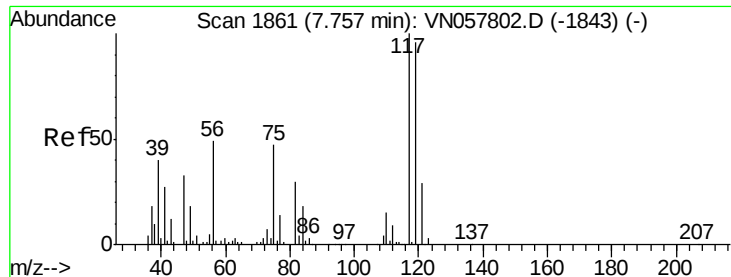
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.3	121.9
192	17.3	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.328 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.738 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

Instrument :

MSVOA_N

ClientSampleId :

T11-E2-(4)

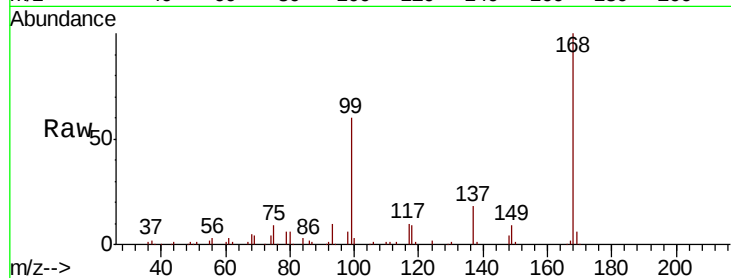
Tgt Ion:117 Resp: 27989

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

121 0.0 23.4 35.2#

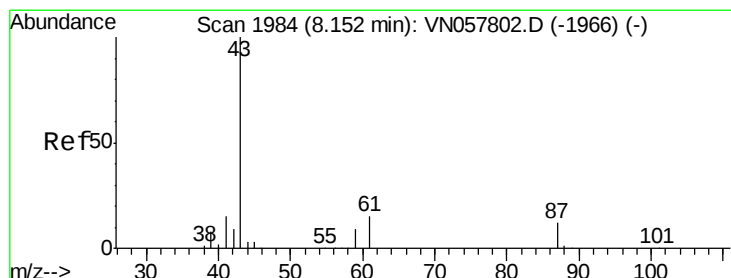
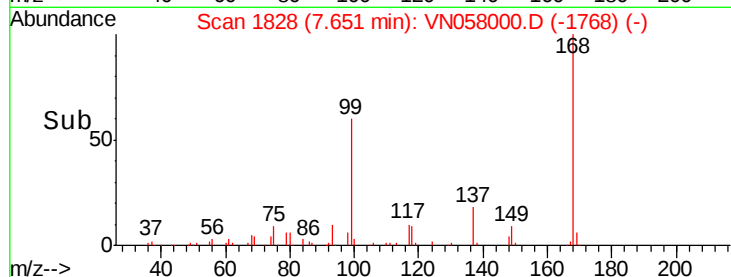
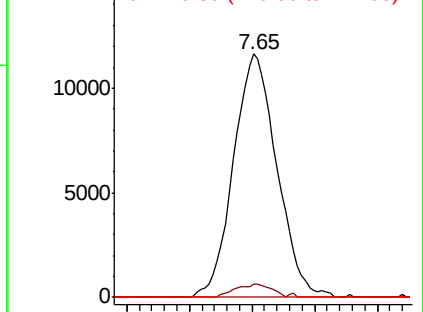


Abundance

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: 2.219 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

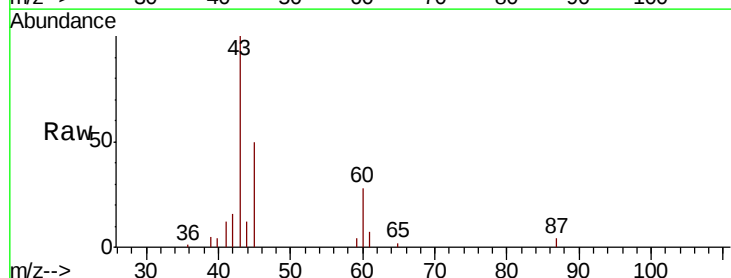
Tgt Ion: 43 Resp: 20596

Ion Ratio Lower Upper

43 100

61 12.6 20.1 30.1#

87 6.1 9.5 14.3#

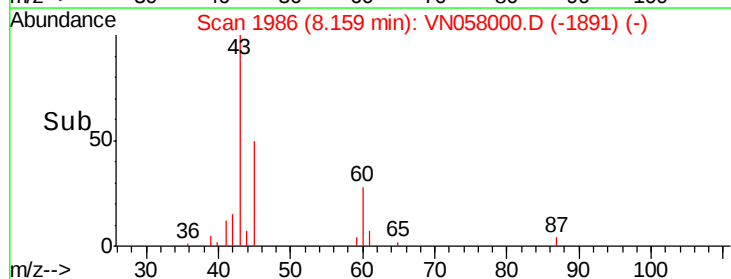
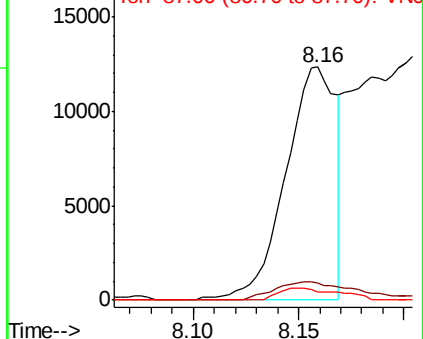


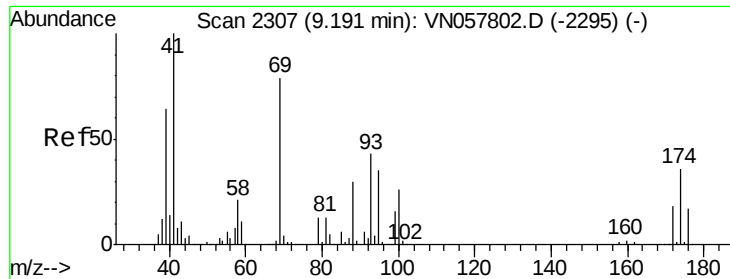
Abundance

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

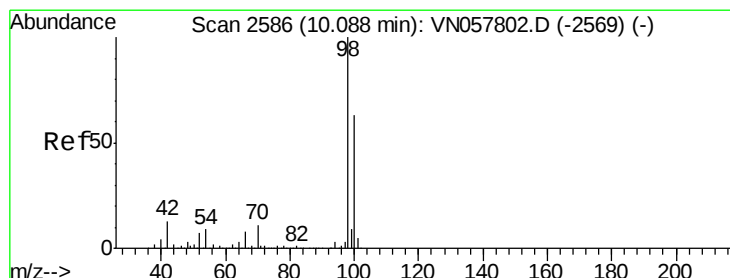
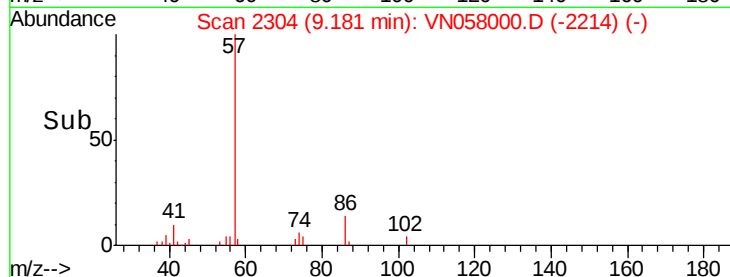
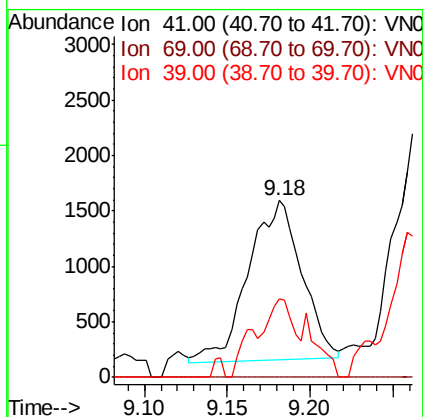
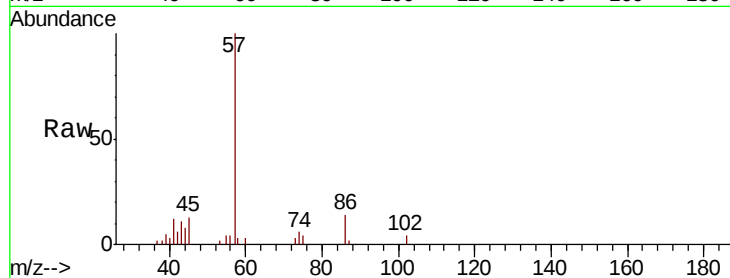




#48
Methyl methacrylate
Concen: 0.691 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

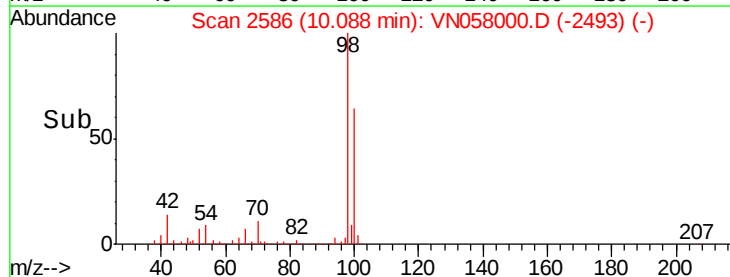
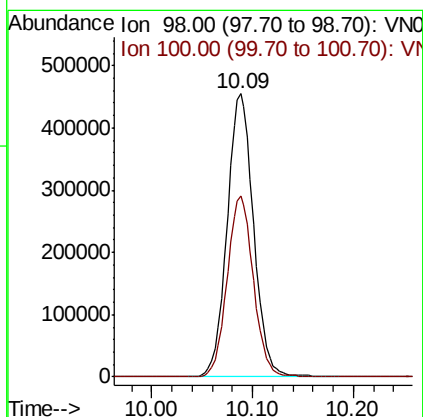
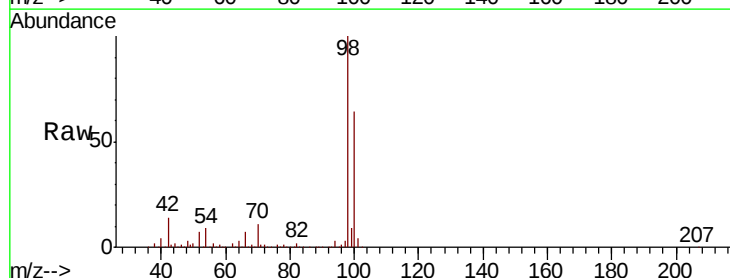
Instrument :
MSVOA_N
ClientSampleId :
T11-E2-(4)

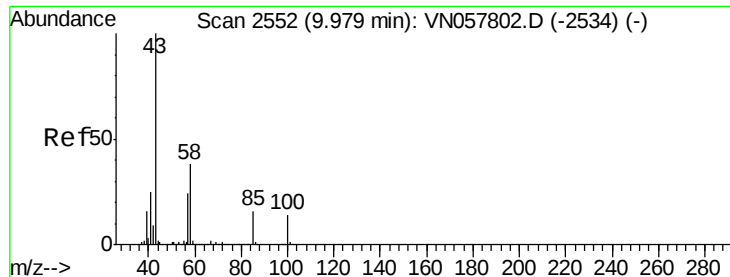
Tgt Ion: 41 Resp: 3253
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 13.0 52.7 79.1#



#50
Toluene-d8
Concen: 50.322 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

Tgt Ion: 98 Resp: 830693
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5

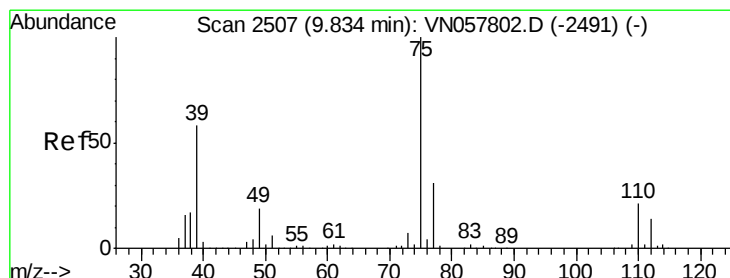
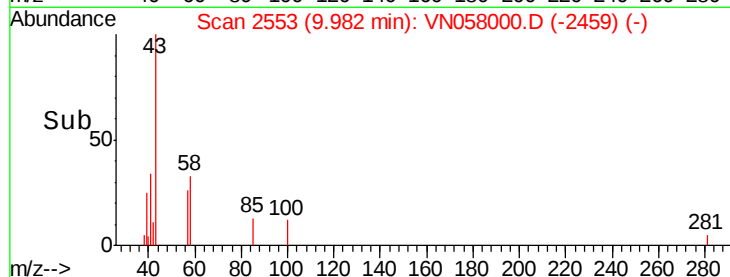
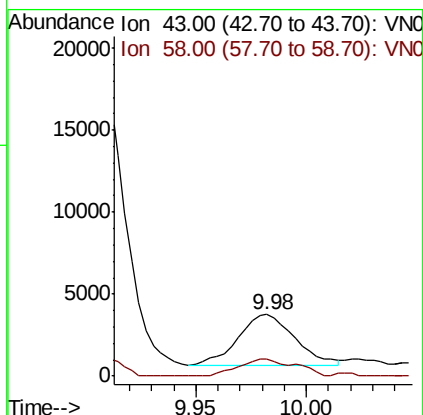
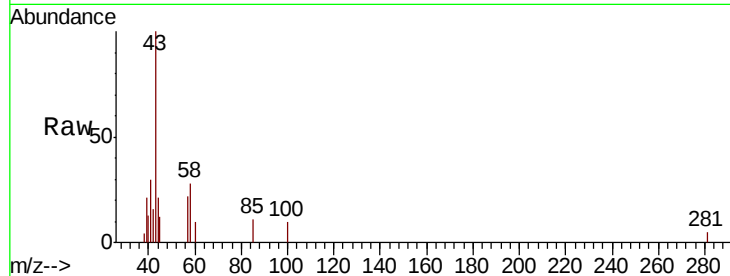




#51
 4-Methyl-2-Pentanone
 Concen: 0.996 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. 0.00 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

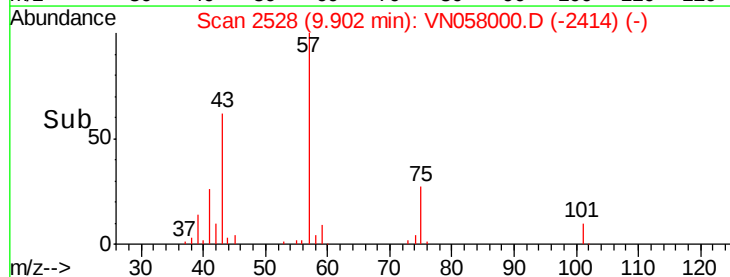
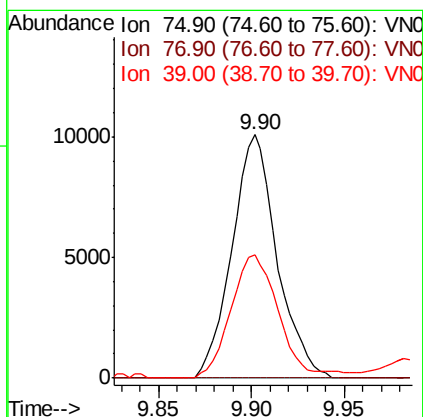
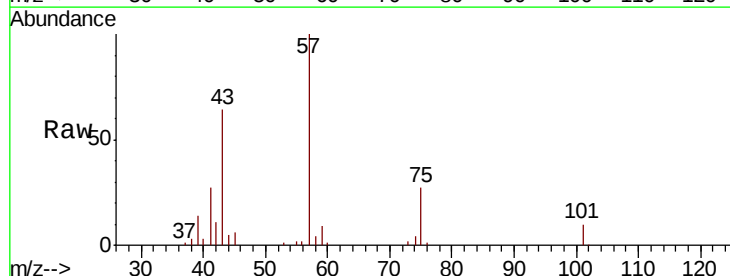
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E2-(4)

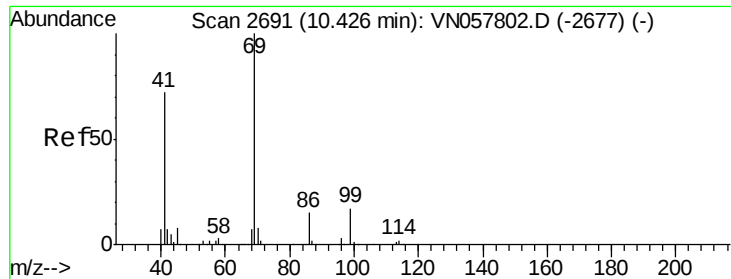
Tgt Ion: 43 Resp: 5469
 Ion Ratio Lower Upper
 43 100
 58 34.0 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 2.588 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058000.D
 Acq: 13 Sep 2019 3:05

Tgt Ion: 75 Resp: 16996
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 50.6 46.2 69.4

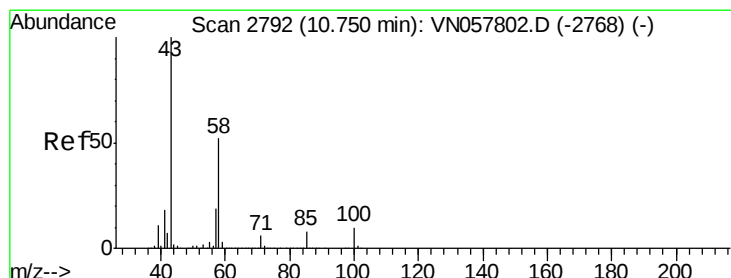
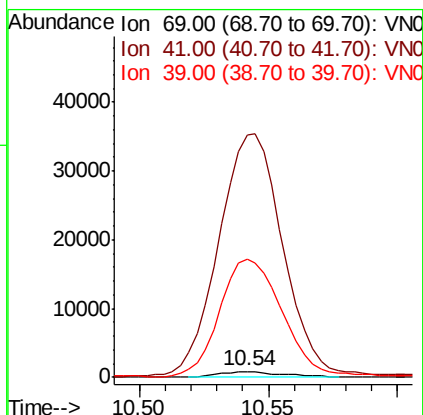
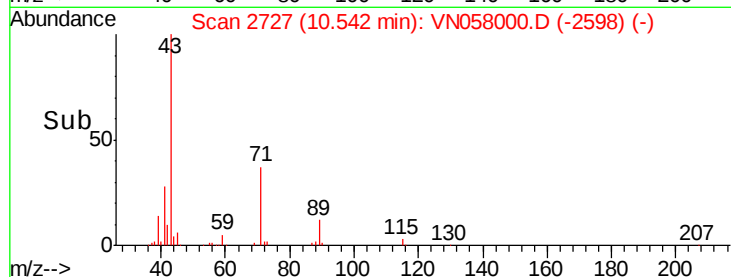
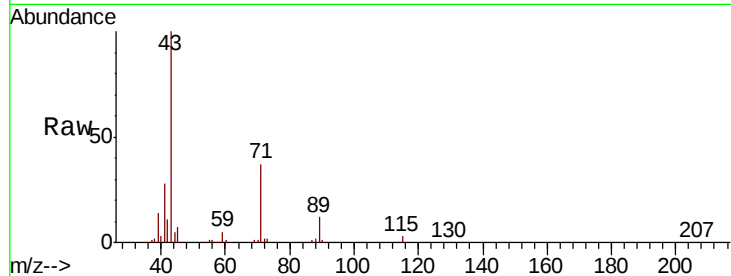




#56
Ethyl methacrylate
Concen: 0.225 ug/l
RT: 10.54 min Scan# 2727
Delta R.T. 0.12 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

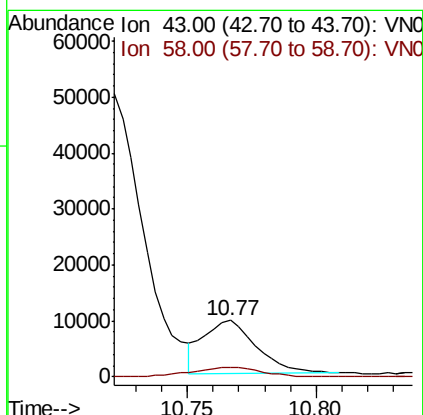
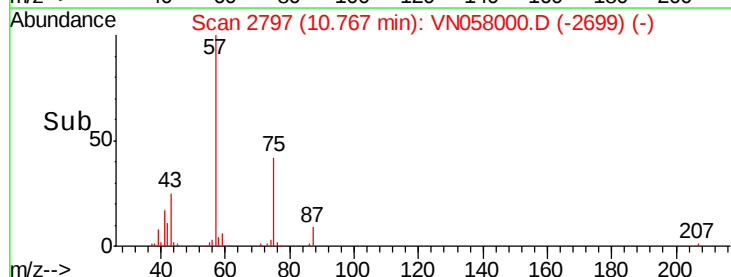
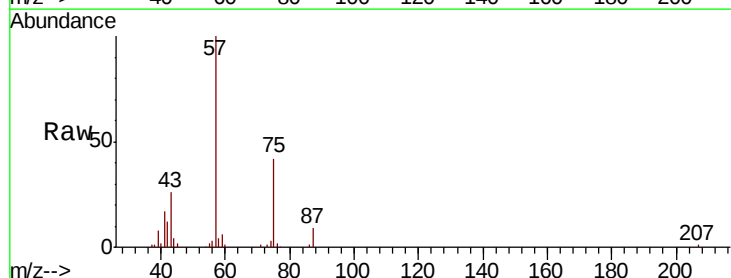
Instrument :
MSVOA_N
ClientSampleId :
T11-E2-(4)

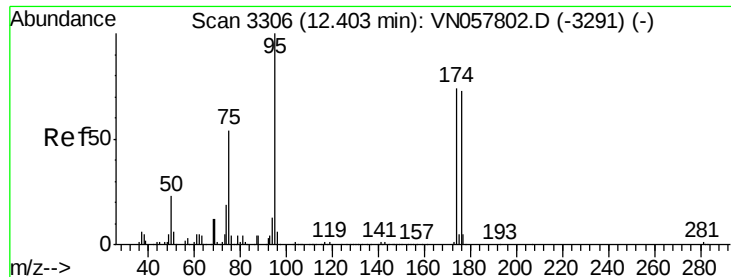
Tgt Ion: 69 Resp: 1451
Ion Ratio Lower Upper
69 100
41 4281.5 56.7 85.1#
39 2036.9 36.3 54.5#



#59
2-Hexanone
Concen: 3.279 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

Tgt Ion: 43 Resp: 13500
Ion Ratio Lower Upper
43 100
58 23.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.865 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

Instrument :

MSVOA_N

ClientSampleId :

T11-E2-(4)

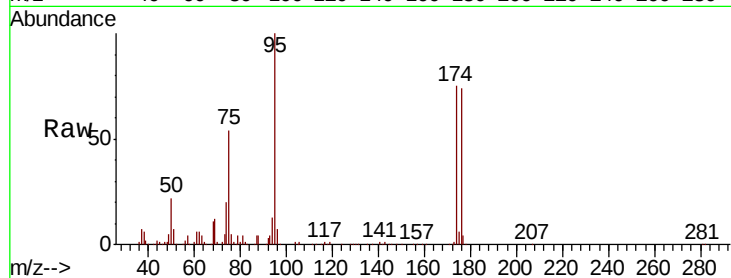
Tgt Ion: 95 Resp: 275947

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.2

176 72.5 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.41

200000

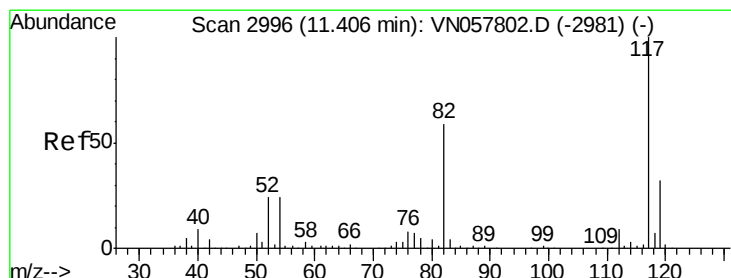
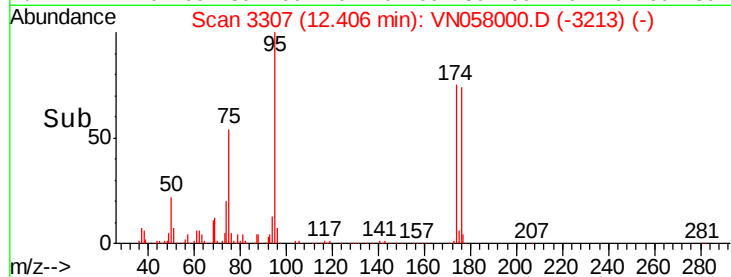
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

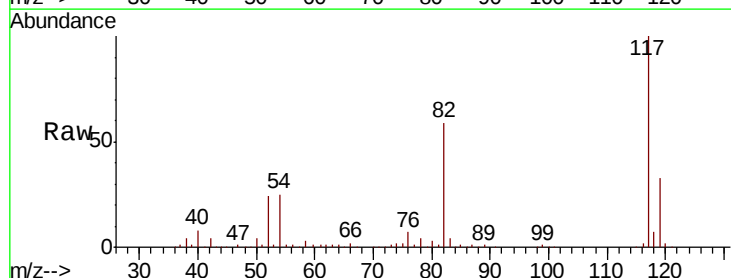
Tgt Ion: 117 Resp: 421710

Ion Ratio Lower Upper

117 100

82 59.2 47.2 70.8

119 32.6 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

300000

250000

200000

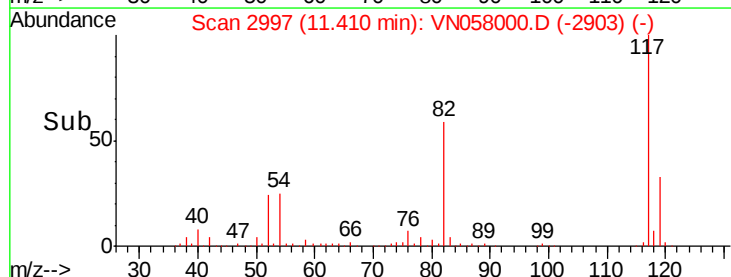
150000

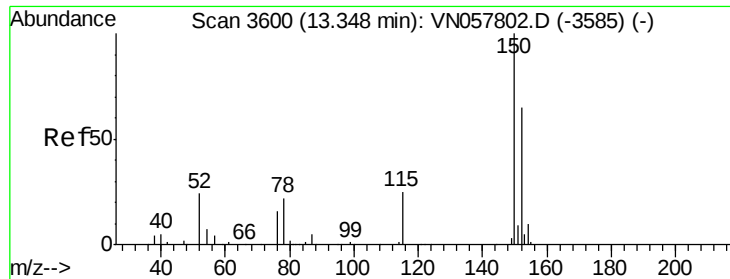
100000

50000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

Instrument :

MSVOA_N

ClientSampleId :

T11-E2-(4)

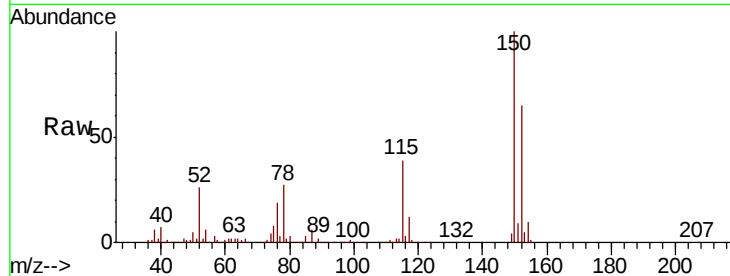
Tgt Ion:152 Resp: 215855

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

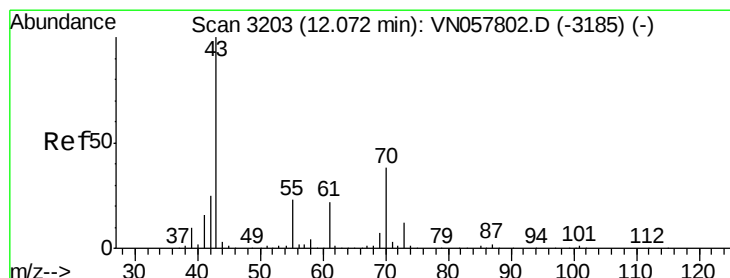
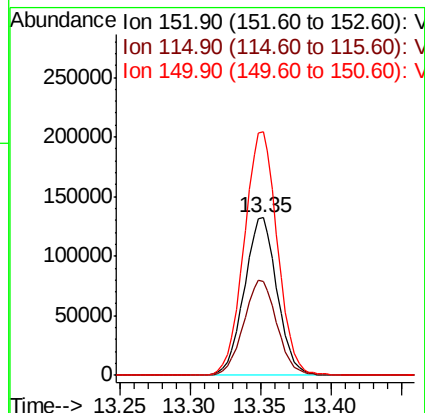
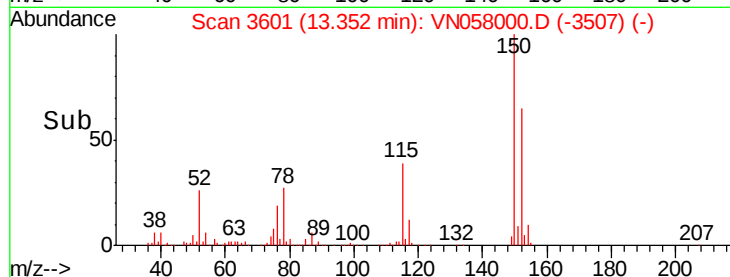
150 156.7 0.0 352.4



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: 0.250 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

Tgt Ion: 43 Resp: 1819

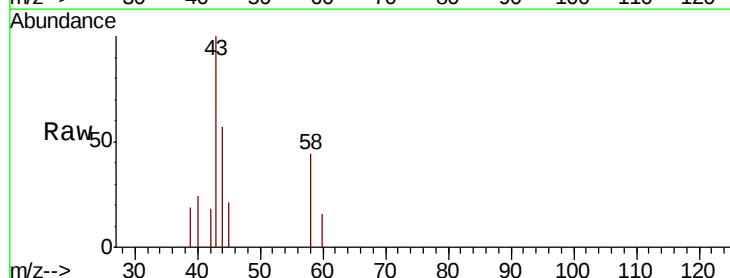
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.6 18.6 27.8#

61 0.0 17.4 26.2#

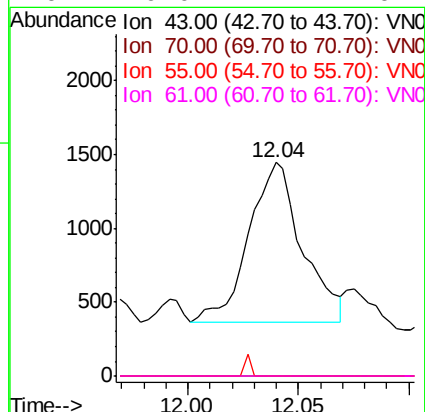
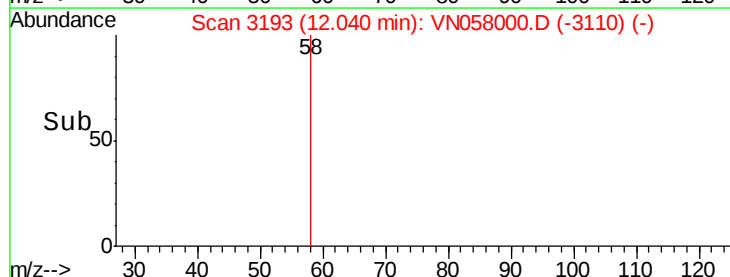


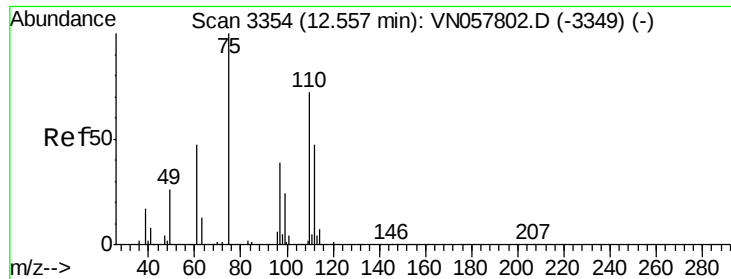
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 30.996 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

Instrument :

MSVOA_N

ClientSampleId :

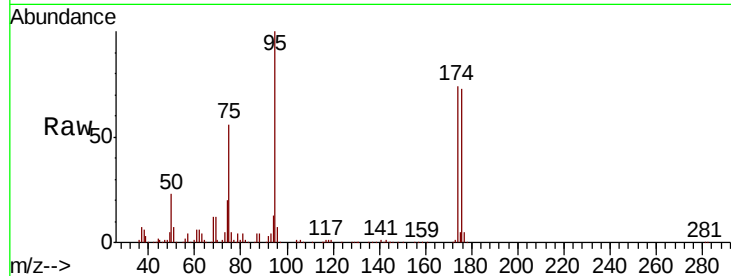
T11-E2-(4)

Tgt Ion: 75 Resp: 151355

Ion Ratio Lower Upper

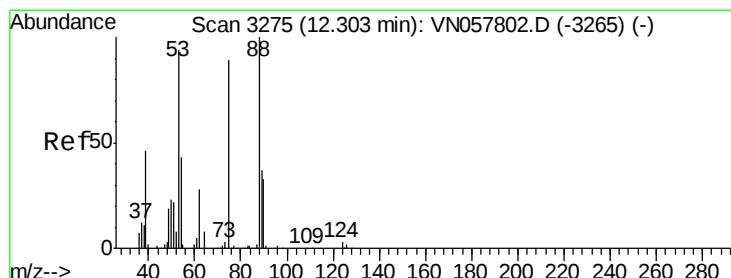
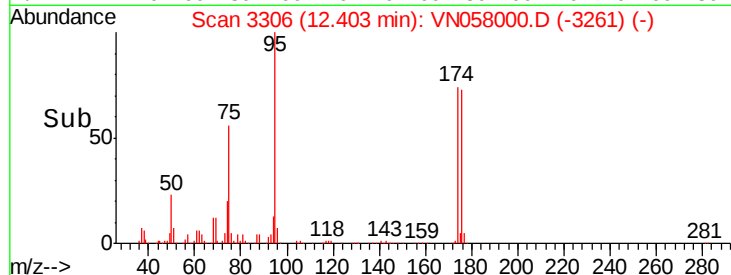
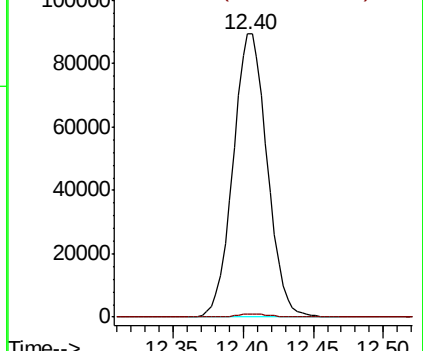
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 109.076 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058000.D

Acq: 13 Sep 2019 3:05

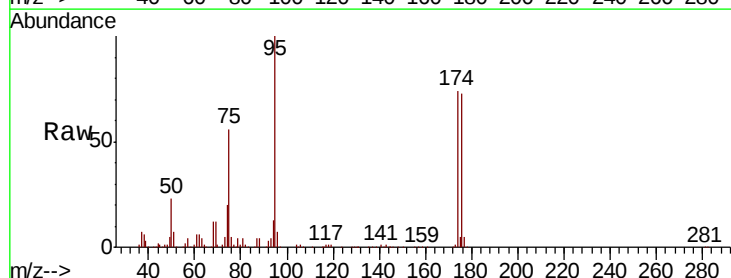
Tgt Ion: 75 Resp: 151355

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

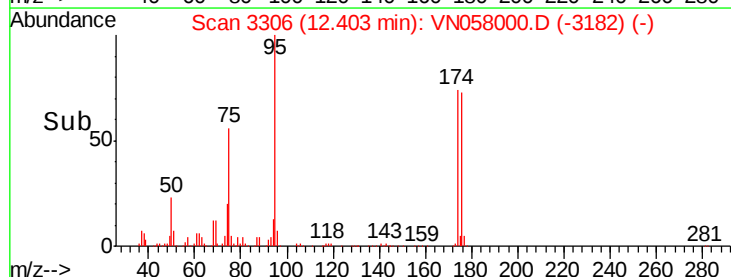
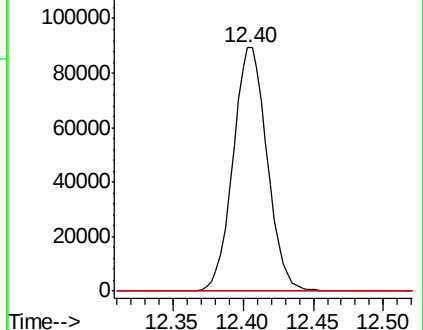
89 0.0 35.3 52.9#

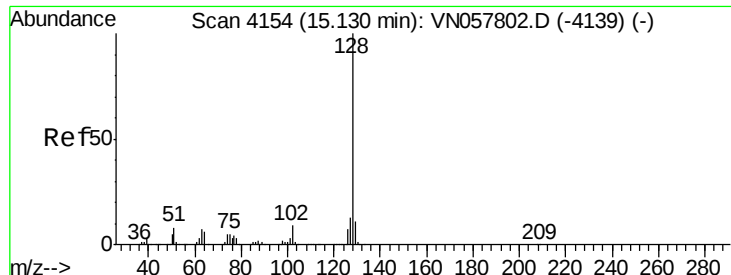


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

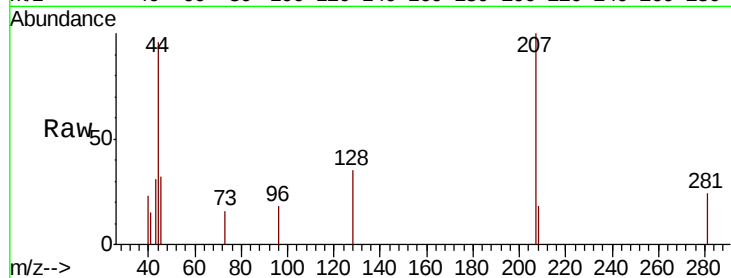




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN058000.D
Acq: 13 Sep 2019 3:05

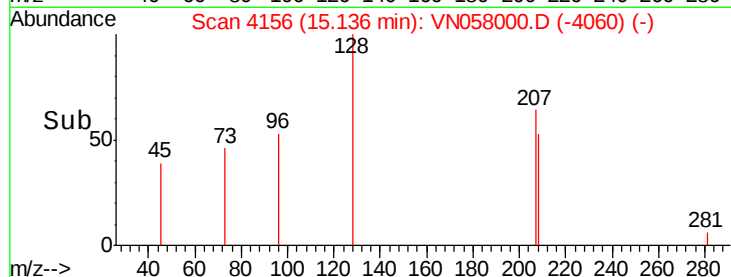
Instrument :
MSVOA_N
ClientSampleId :
T11-E2-(4)

Tgt Ion:128 Resp: 399
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): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

15.14



Time--> 15.10 15.12 15.14 15.16