

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057982.D
 Acq On : 12 Sep 2019 20:27
 Operator : JC/SP
 Sample : K4644-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(4)

Quant Time: Sep 13 04:50:20 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

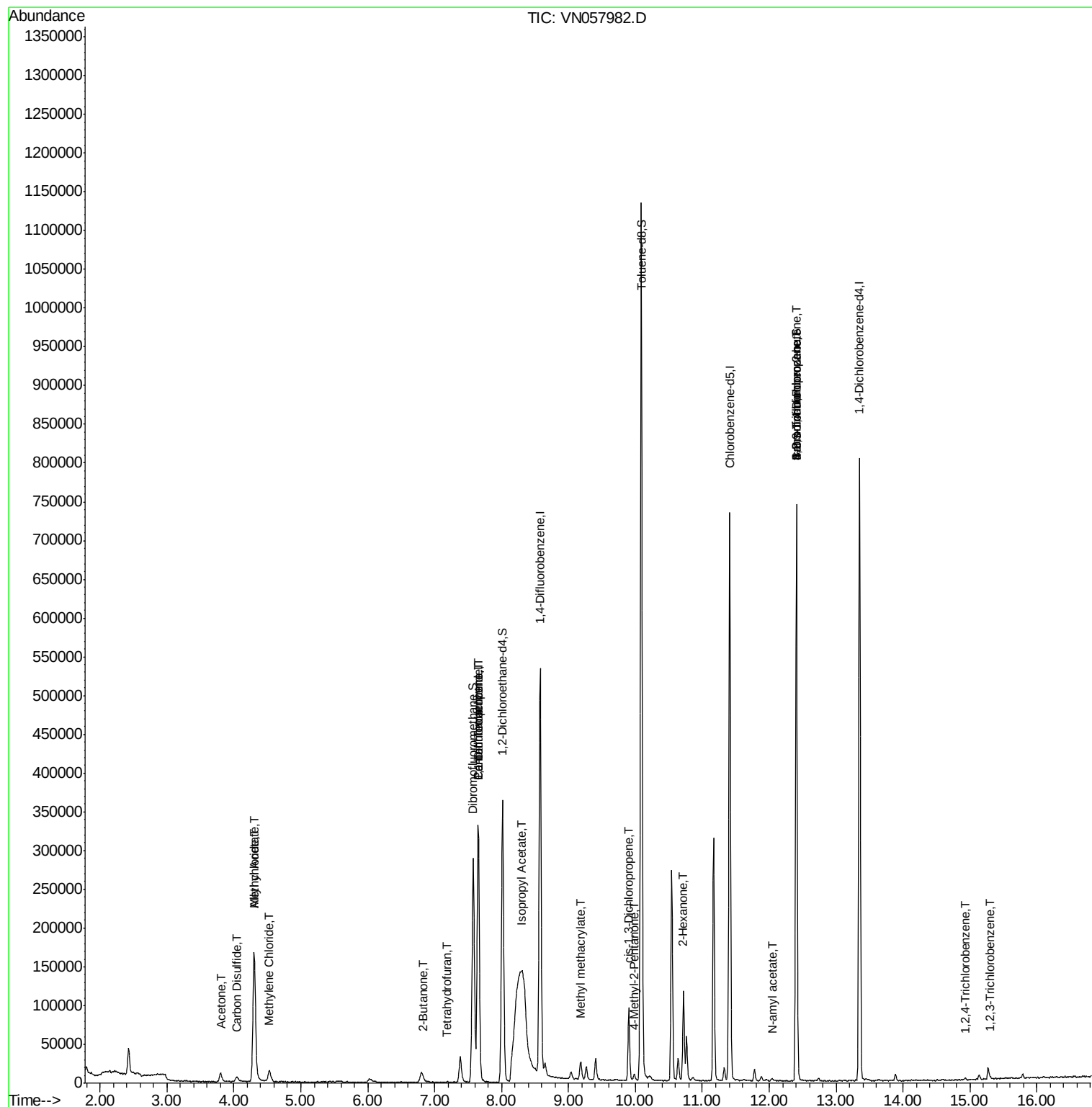
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	259354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	449735	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	400900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	202623	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	317028	60.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	120.70%	
35) Dibromofluoromethane	7.58	113	213639	51.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.94%	
50) Toluene-d8	10.09	98	765498	47.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.00%	
62) 4-Bromofluorobenzene	12.41	95	249524	40.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.26%	
Target Compounds						
5) Bromomethane	2.55	94	345	Below Cal		95
14) Allyl chloride	4.31	41	6427	1.189 ug/l #		21
16) Acetone	3.80	43	17617	10.230 ug/l		95
17) Carbon Disulfide	4.03	76	249	0.216 ug/l #		75
18) Methyl Acetate	4.30	43	317486	69.147 ug/l		99
20) Methylene Chloride	4.52	84	9644	1.754 ug/l		94
25) 2-Butanone	6.83	43	1606	0.644 ug/l #		86
29) Tetrahydrofuran	7.19	42	502	0.327 ug/l #		34
31) Cyclohexane	7.64	56	6712	Below Cal #		24
36) 1,1-Dichloropropene	7.65	75	22001	4.218 ug/l #		46
38) Carbon Tetrachloride	7.65	117	26240	5.510 ug/l #		16
43) Isopropyl Acetate	8.28	43	307033	33.880 ug/l #		56
48) Methyl methacrylate	9.17	41	1234	0.268 ug/l #		34
51) 4-Methyl-2-Pentanone	9.99	43	6322	1.179 ug/l		96
54) cis-1,3-Dichloropropene	9.90	75	15793	2.464 ug/l #		65
59) 2-Hexanone	10.72	43	90851	22.602 ug/l #		27
71) Bromoform	12.40	173	728	0.321 ug/l #		30
74) N-amyl acetate	12.04	43	2923	0.427 ug/l #		49
76) 1,2,3-Trichloropropane	12.41	75	139351	30.402 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.41	75	139351	106.984 ug/l #		6
93) 1,2,4-Trichlorobenzene	14.92	180	948	0.202 ug/l #		58
95) Naphthalene	15.14	128	4923	Below Cal		99
96) 1,2,3-Trichlorobenzene	15.31	180	1162	1.276 ug/l #		70

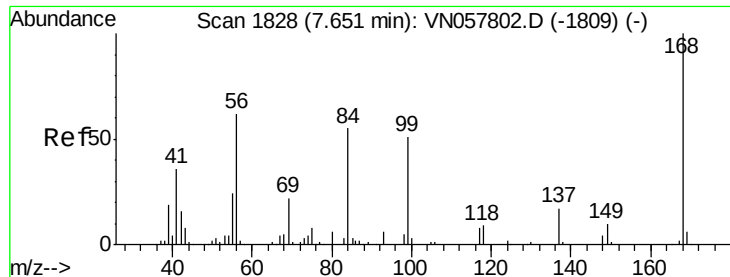
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

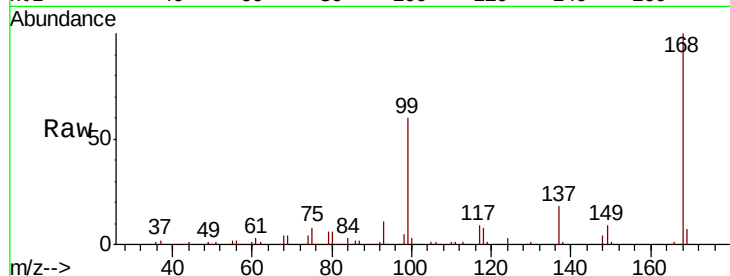
T11-E4-(4)

Tgt Ion:168 Resp: 259354

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): VN

7.65

120000

100000

80000

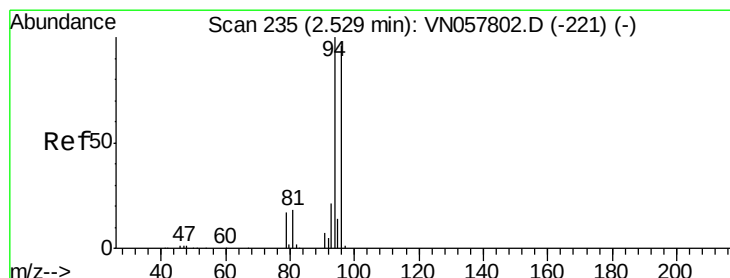
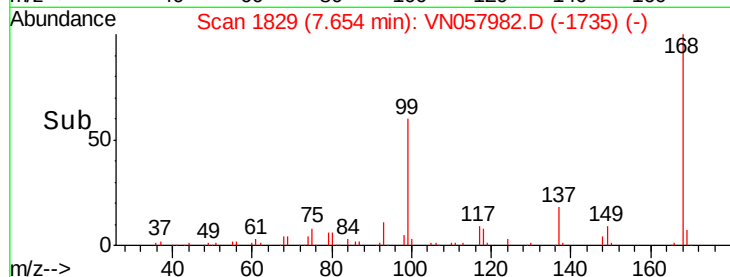
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057982.D

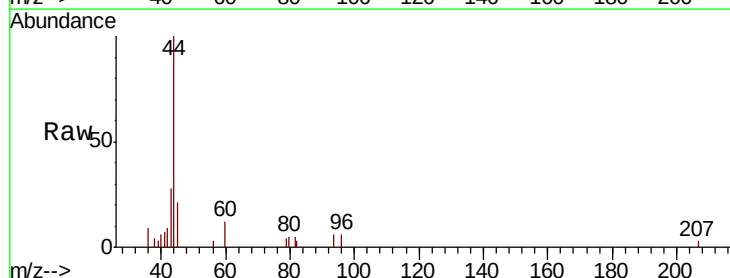
Acq: 12 Sep 2019 20:27

Tgt Ion: 94 Resp: 345

Ion Ratio Lower Upper

94 100

96 100.9 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.55

400

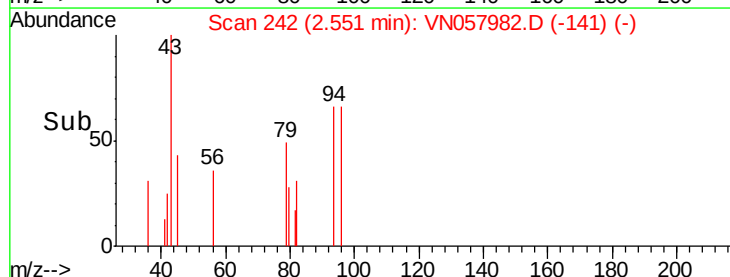
300

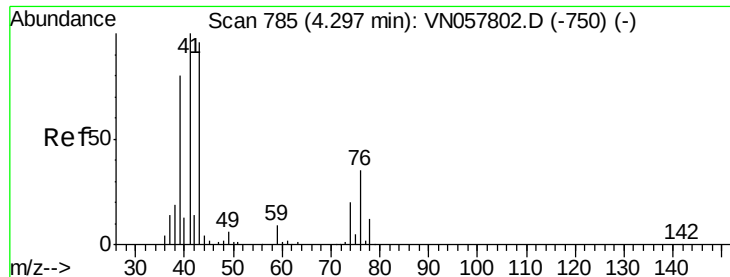
200

100

0

Time-->

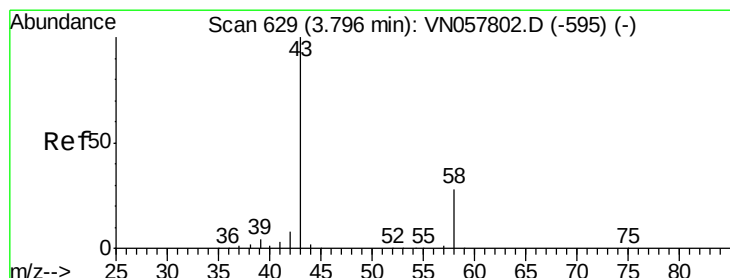
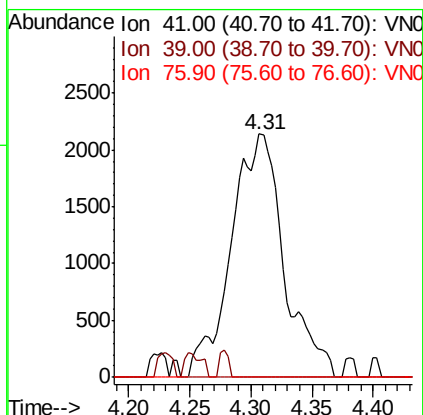
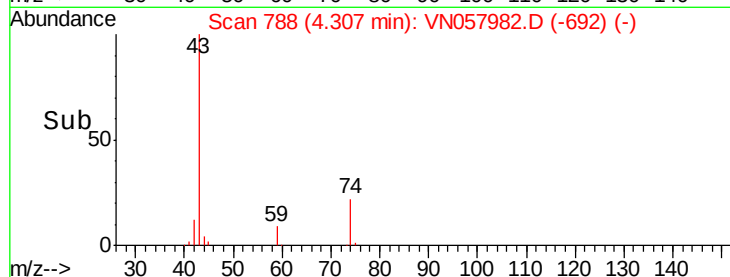
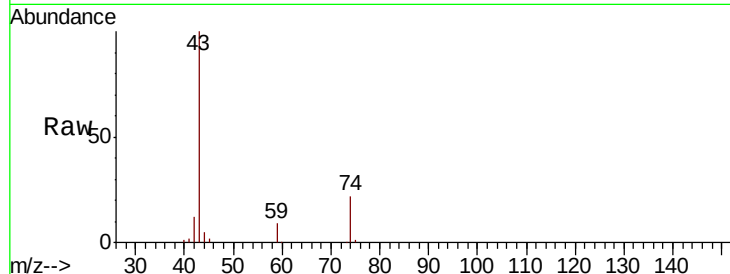




#14
 Allyl chloride
 Concen: 1.189 ug/l
 RT: 4.31 min Scan# 788
 Delta R.T. 0.01 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

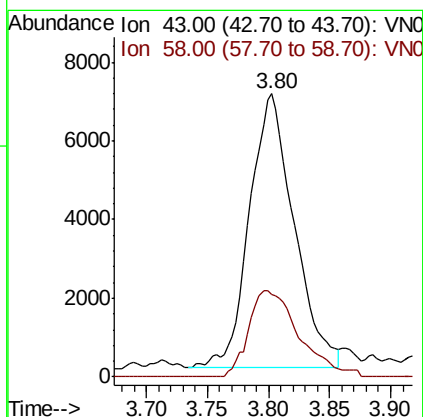
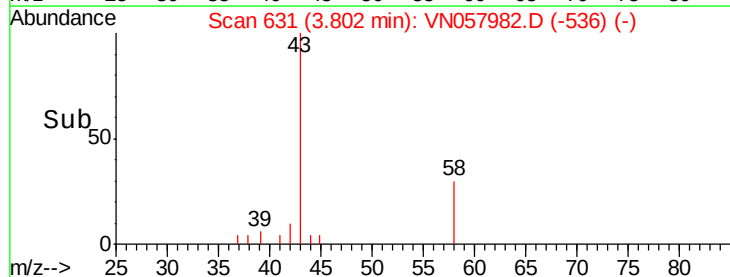
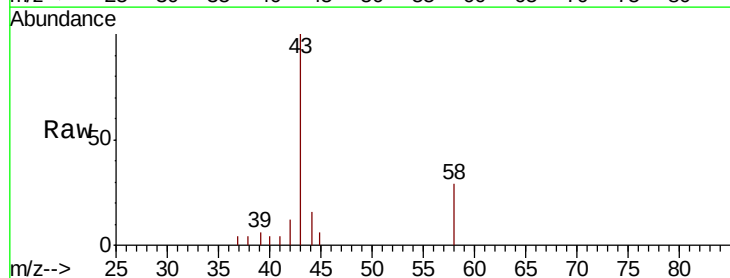
Instrument :
 MSVOA_N
 ClientSampled :
 T11-E4-(4)

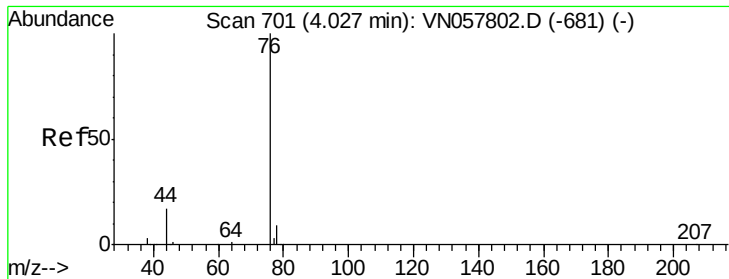
Tgt Ion: 41 Resp: 6427
 Ion Ratio Lower Upper
 41 100
 39 0.0 59.4 89.2#
 76 0.0 26.0 39.0#



#16
 Acetone
 Concen: 10.230 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

Tgt Ion: 43 Resp: 17617
 Ion Ratio Lower Upper
 43 100
 58 30.3 22.2 33.2





#17

Carbon Disulfide

Concen: 0.216 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampled :

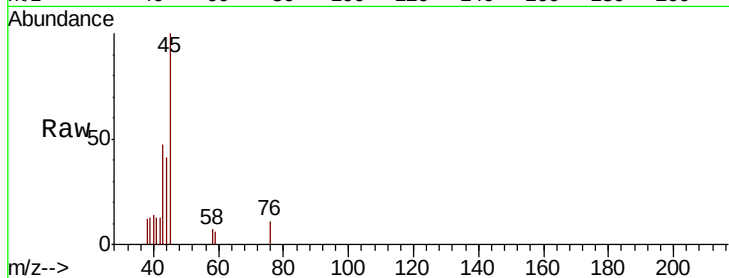
T11-E4-(4)

Tgt Ion: 76 Resp: 249

Ion Ratio Lower Upper

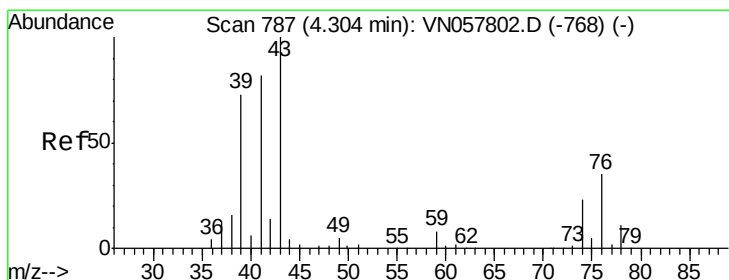
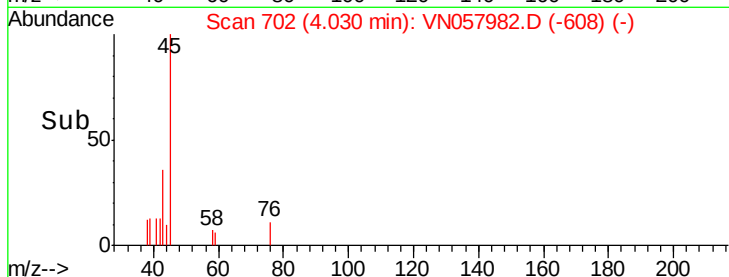
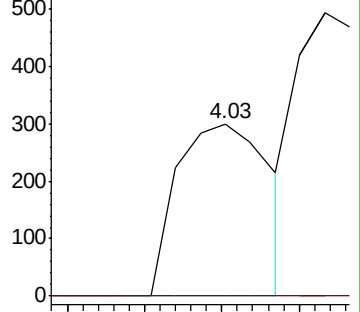
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 69.147 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN057982.D

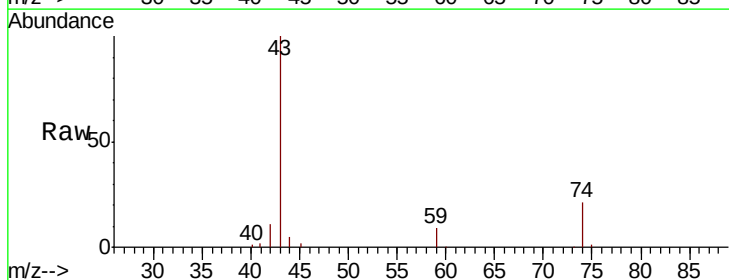
Acq: 12 Sep 2019 20:27

Tgt Ion: 43 Resp: 317486

Ion Ratio Lower Upper

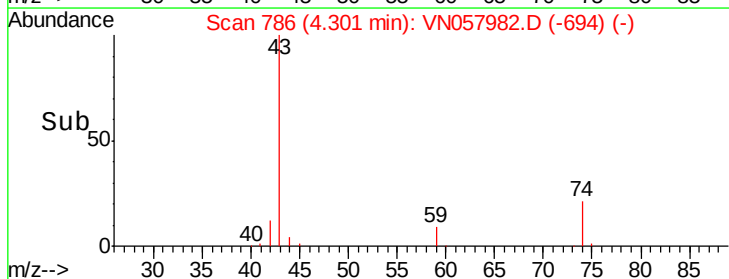
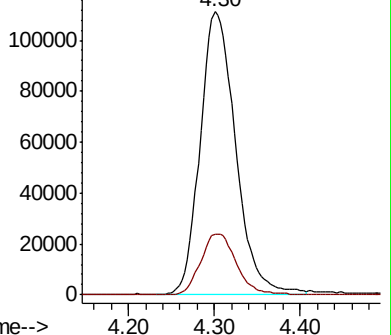
43 100

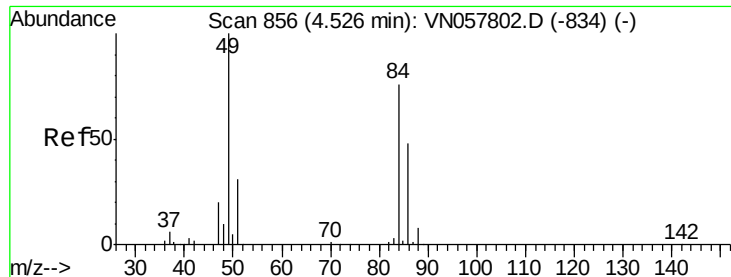
74 21.8 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 1.754 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(4)

Tgt Ion: 84 Resp: 9644

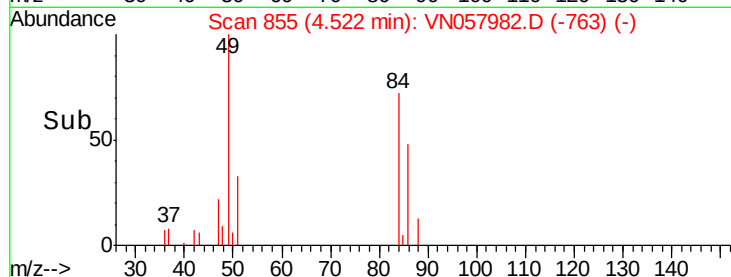
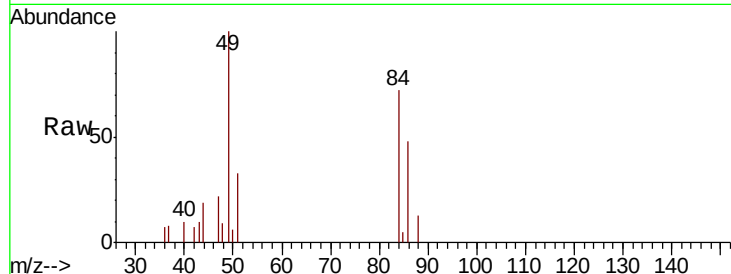
Ion Ratio Lower Upper

84 100

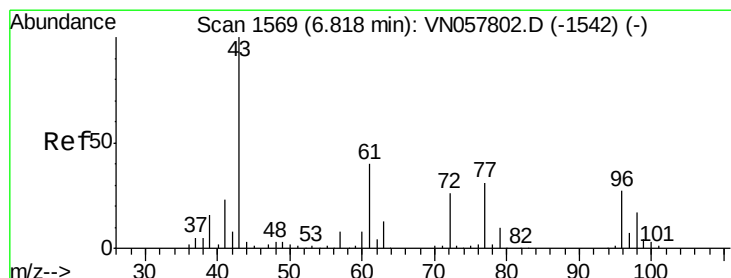
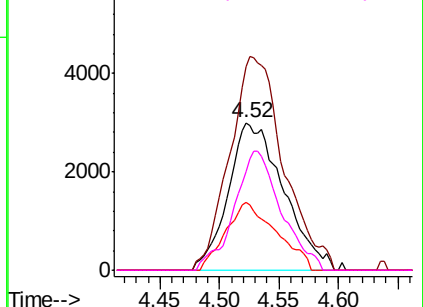
49 138.0 104.8 157.2

51 45.9 33.0 49.4

86 66.6 50.5 75.7



Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.644 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN057982.D

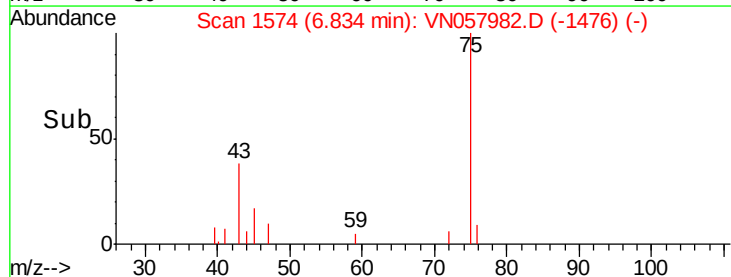
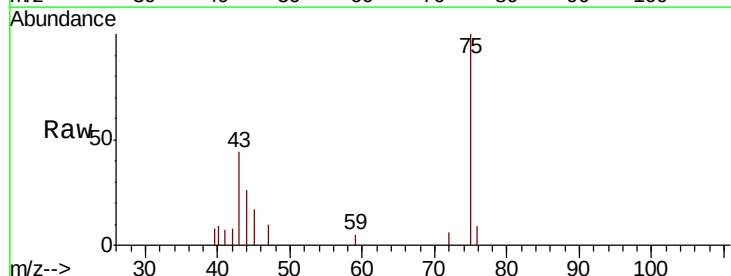
Acq: 12 Sep 2019 20:27

Tgt Ion: 43 Resp: 1606

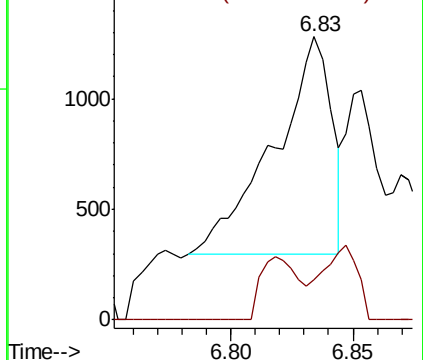
Ion Ratio Lower Upper

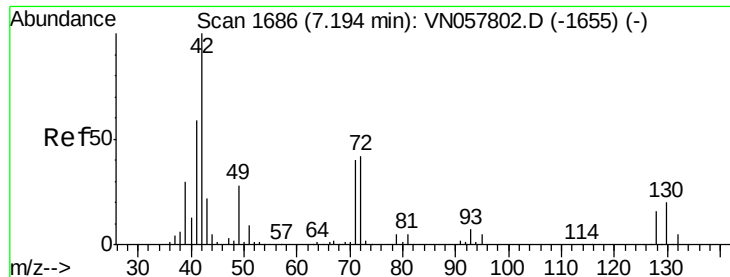
43 100

72 18.8 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.327 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

T11-E4-(4)

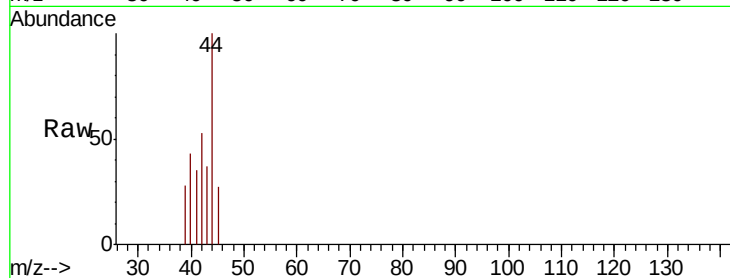
Tgt Ion: 42 Resp: 502

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

7.19

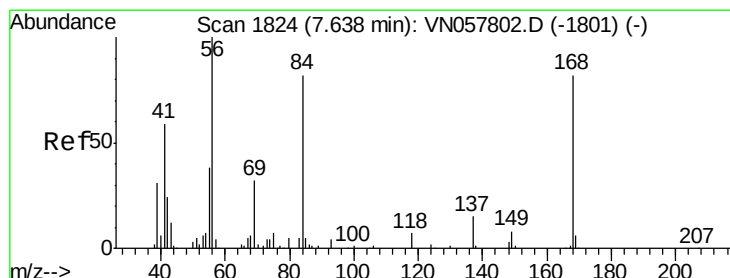
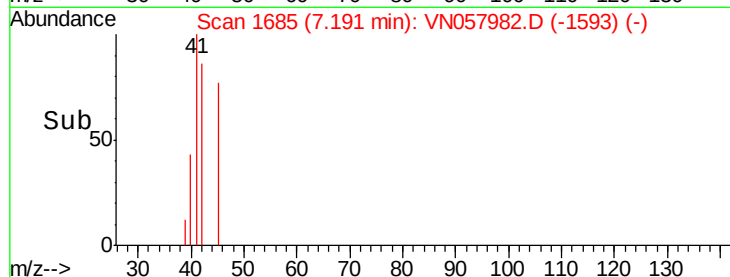
300

200

100

0

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

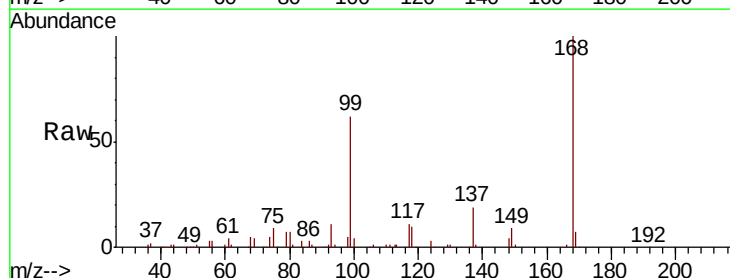
Tgt Ion: 56 Resp: 6712

Ion Ratio Lower Upper

56 100

69 143.7 25.9 38.9#

84 106.6 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

7.64

6000

5000

4000

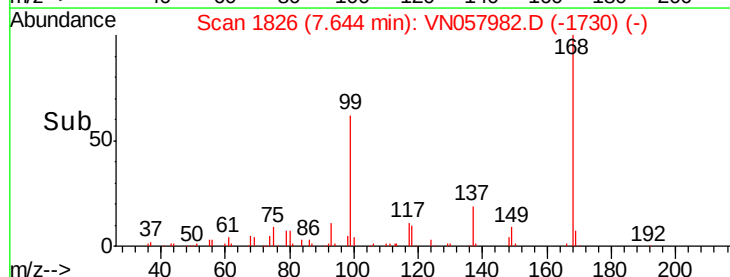
3000

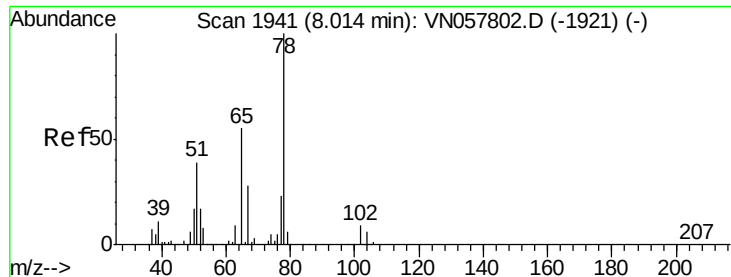
2000

1000

0

Time-->

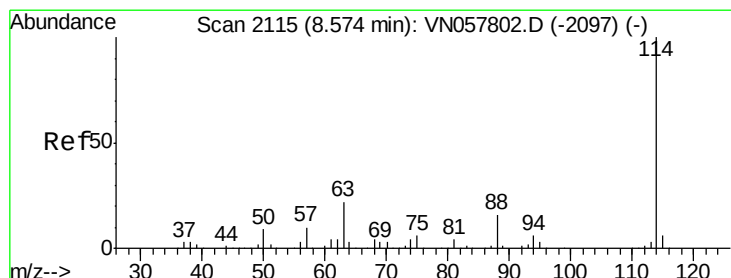
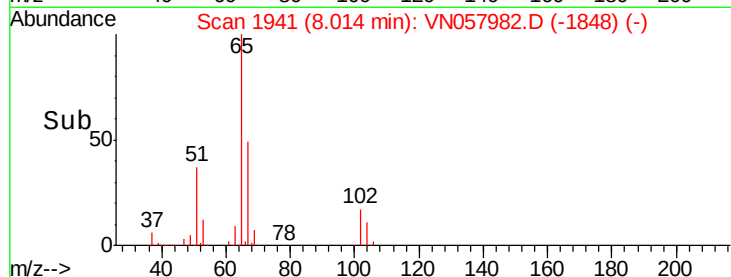
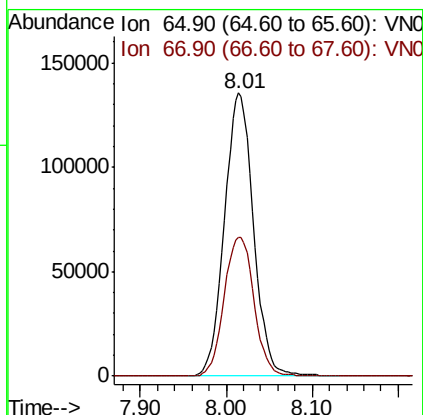
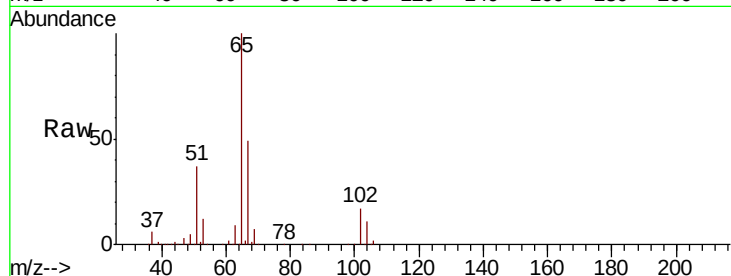




#33
 1,2-Dichloroethane-d4
 Concen: 60.352 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

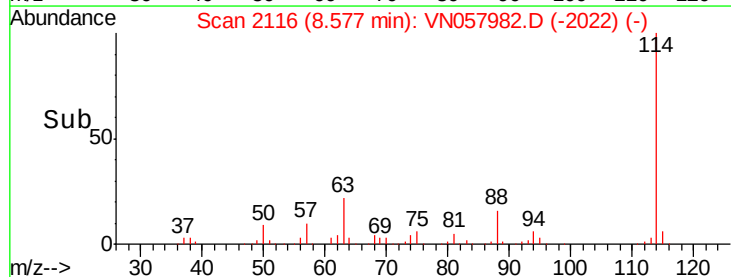
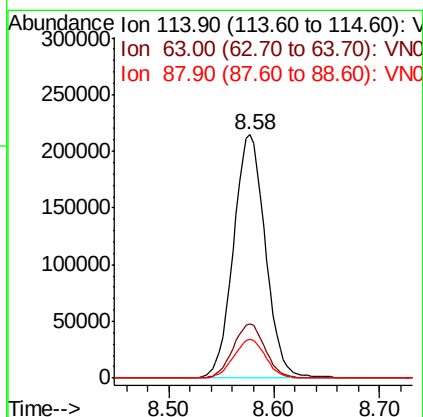
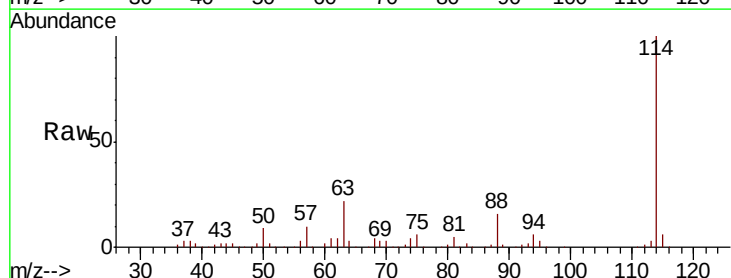
Instrument :
 MSVOA_N
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 T11-E4-(4)

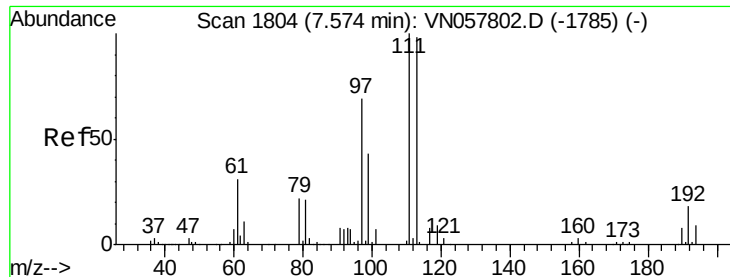
Tgt Ion: 65 Resp: 317028
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

Tgt Ion: 114 Resp: 449735
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 16.1 0.0 31.4

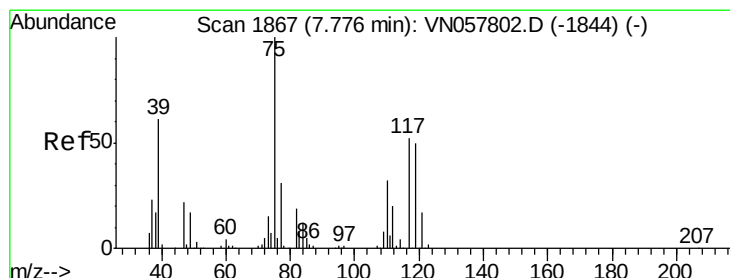
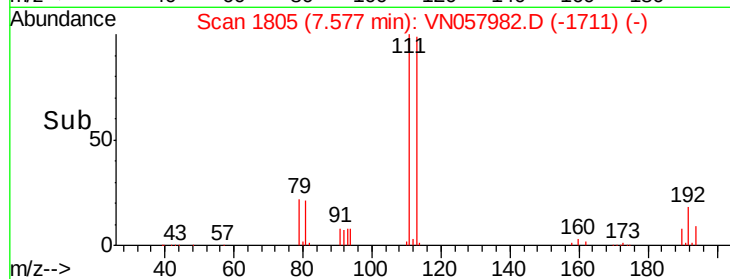
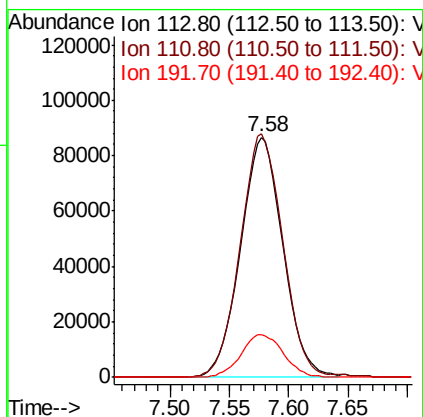
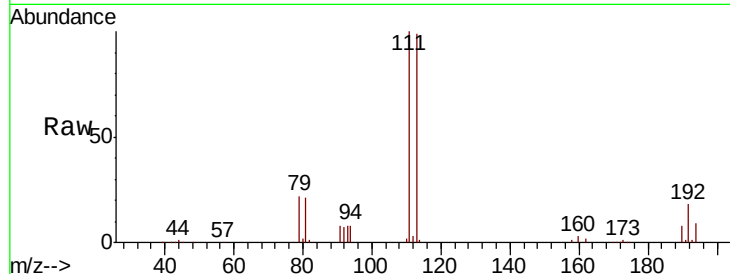




#35
 Dibromofluoromethane
 Concen: 51.468 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

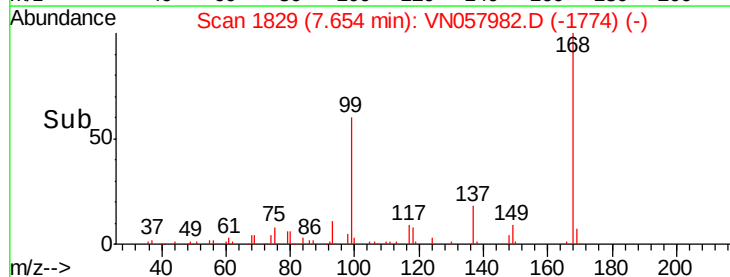
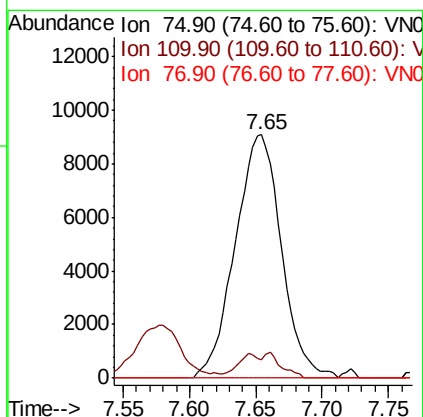
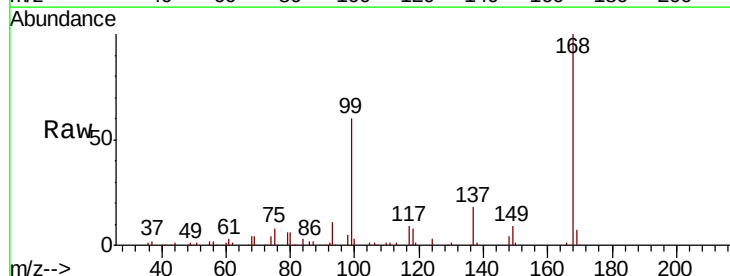
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(4)

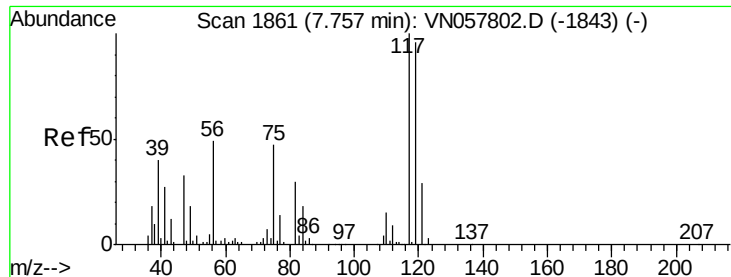
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.3	121.9
192	17.9	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.218 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.9	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.510 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampled :

T11-E4-(4)

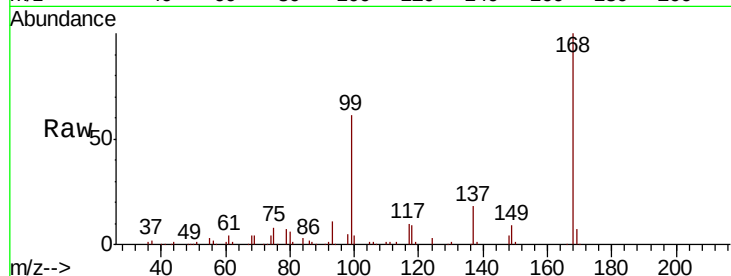
Tgt Ion:117 Resp: 26240

Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

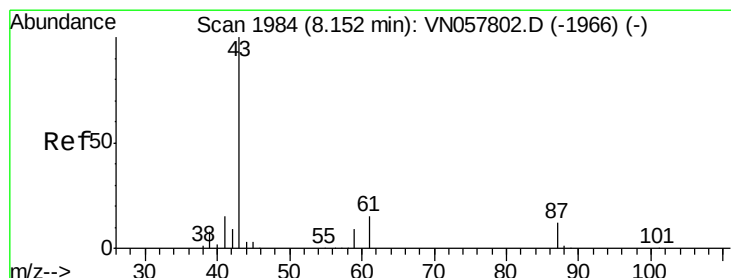
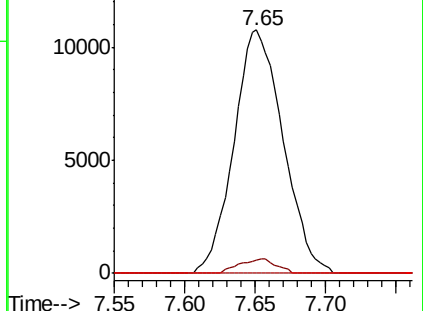
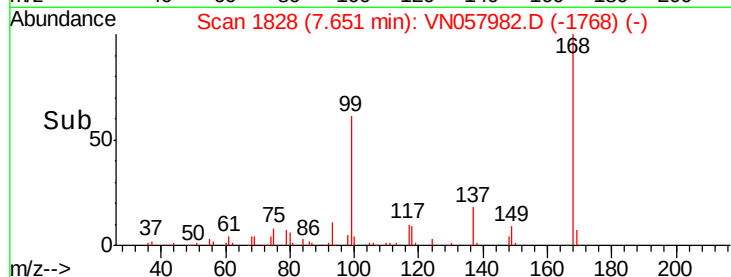
121 0.0 23.4 35.2#



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: 33.880 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.13 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

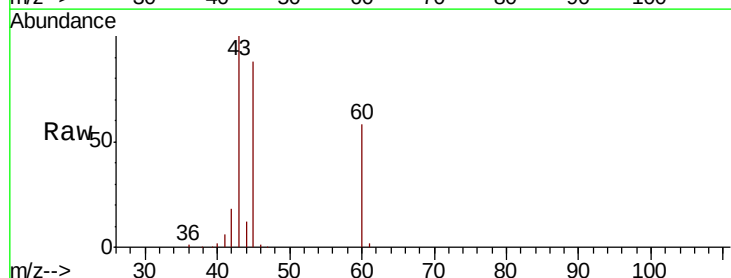
Tgt Ion: 43 Resp: 307033

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

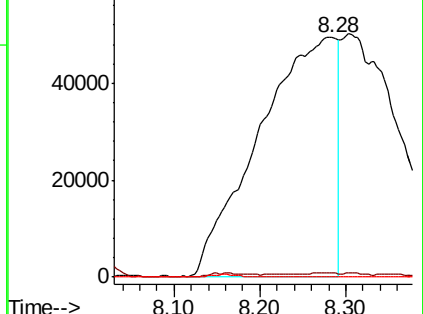
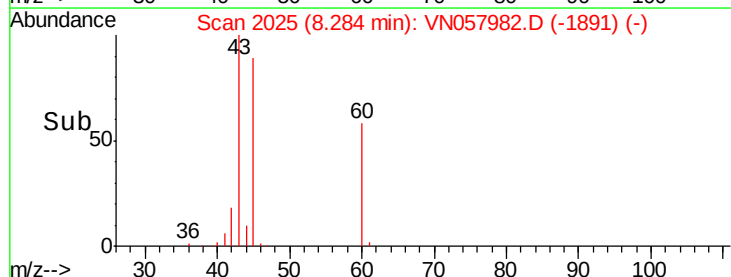
87 0.0 9.5 14.3#

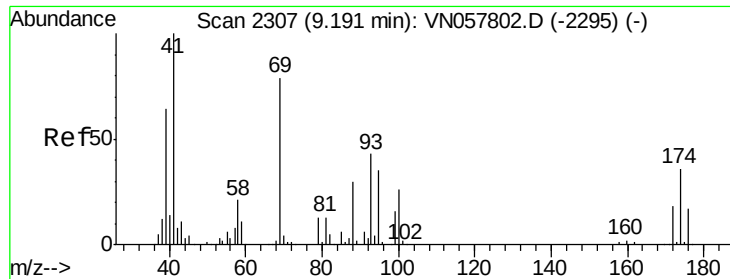


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

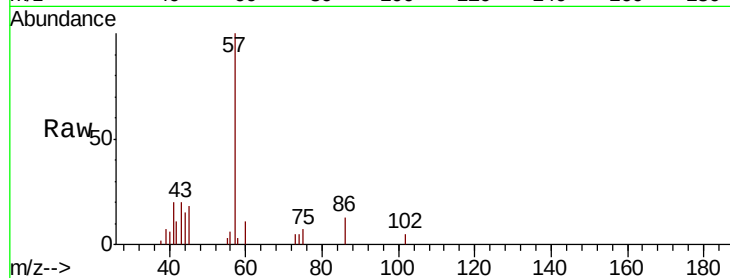




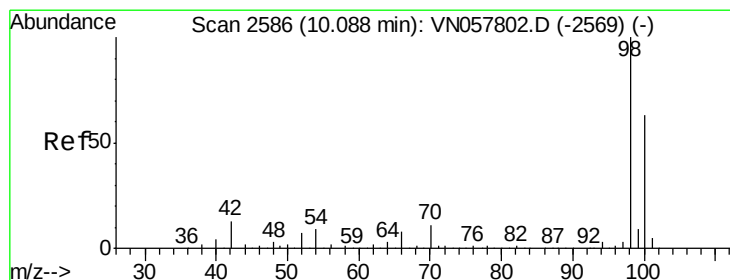
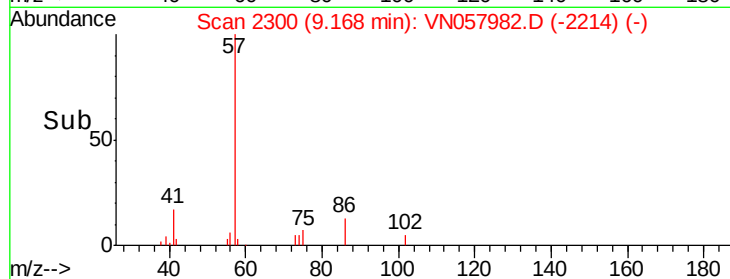
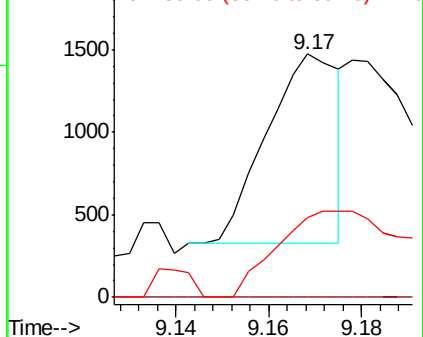
#48
Methyl methacrylate
Concen: 0.268 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN057982.D
Acq: 12 Sep 2019 20:27

Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(4)

Tgt Ion: 41 Resp: 1234
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 96.4 52.7 79.1#

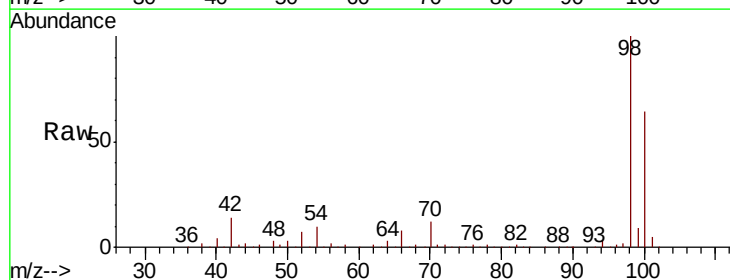


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

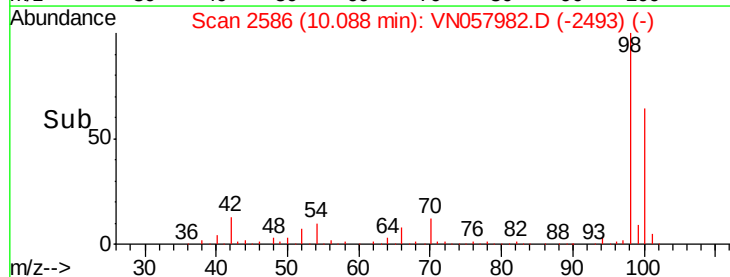
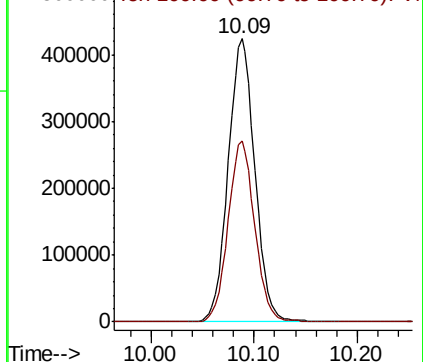


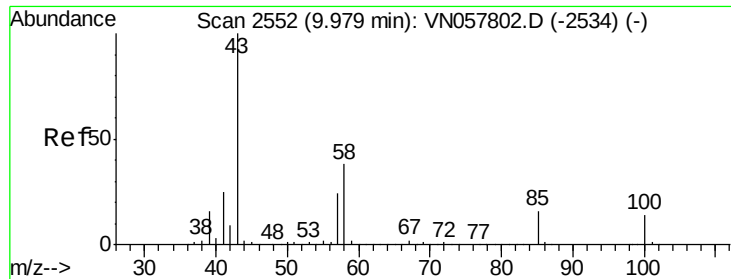
#50
Toluene-d8
Concen: 47.499 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057982.D
Acq: 12 Sep 2019 20:27

Tgt Ion: 98 Resp: 765498
Ion Ratio Lower Upper
98 100
100 63.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

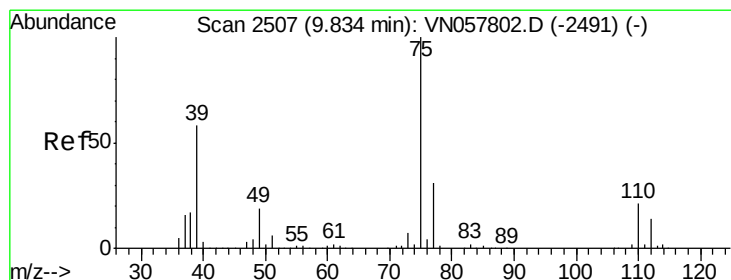
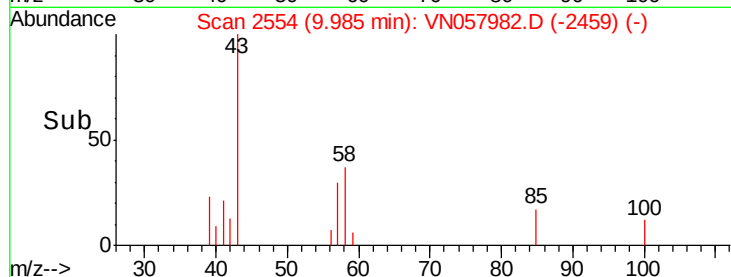
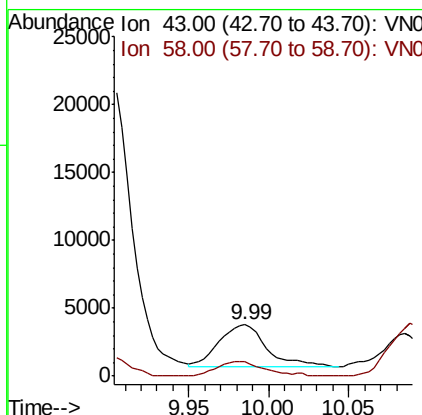
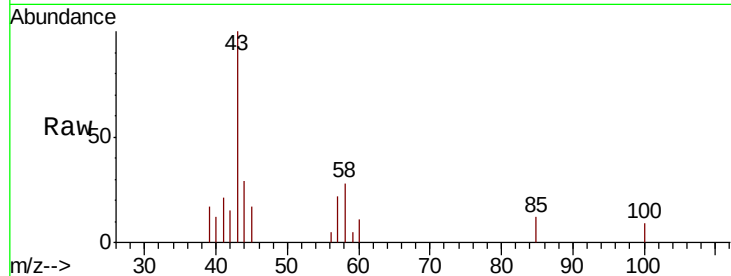




#51
 4-Methyl-2-Pentanone
 Concen: 1.179 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.01 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

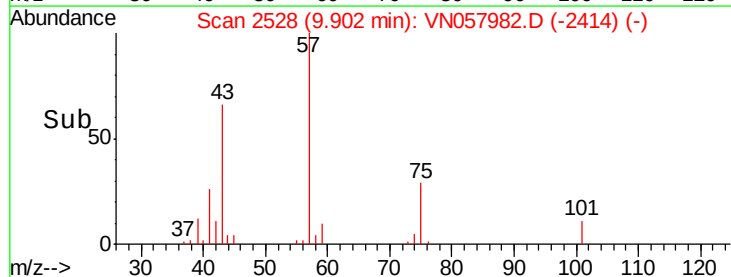
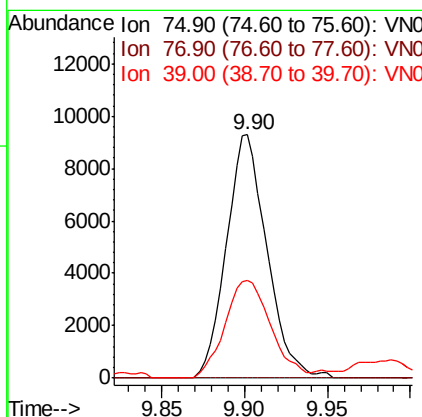
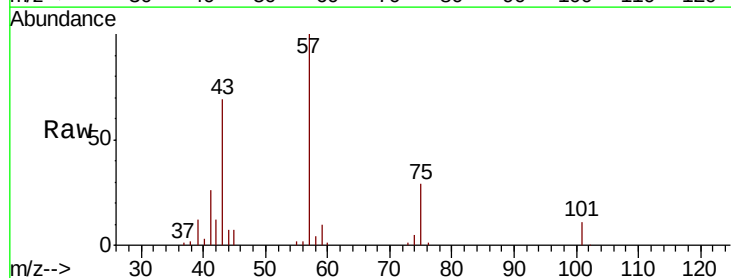
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(4)

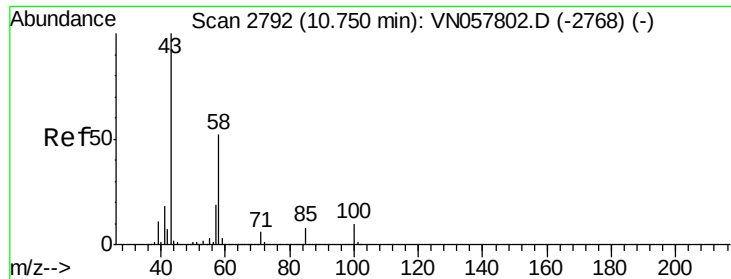
Tgt Ion: 43 Resp: 6322
 Ion Ratio Lower Upper
 43 100
 58 35.0 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 2.464 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

Tgt Ion: 75 Resp: 15793
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 40.3 46.2 69.4#

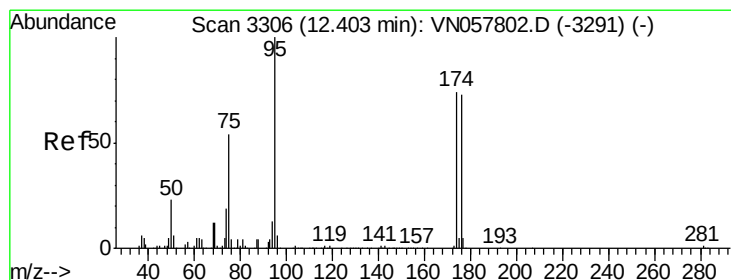
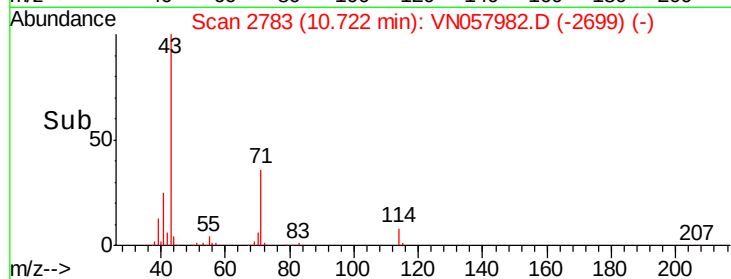
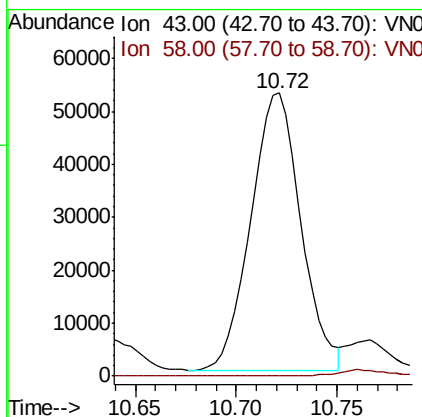
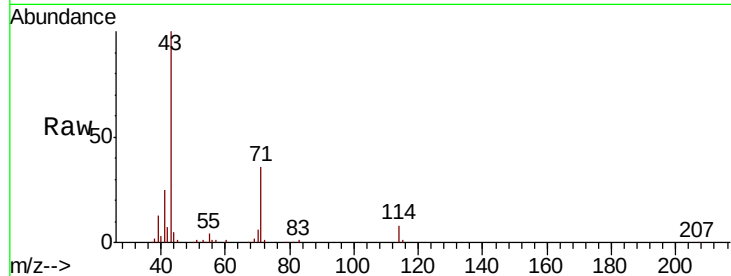




#59
2-Hexanone
Concen: 22.602 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. -0.03 min
Lab File: VN057982.D
Acq: 12 Sep 2019 20:27

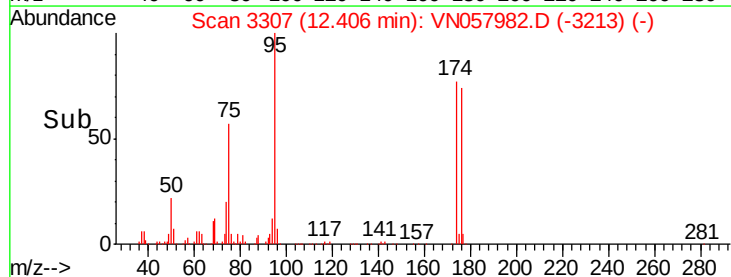
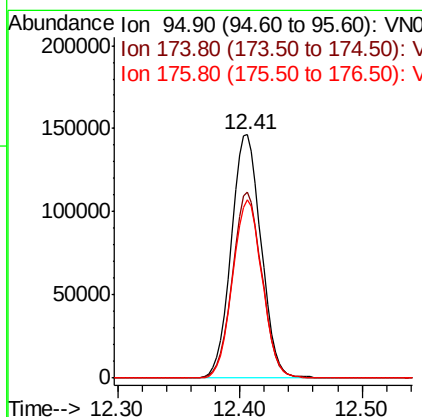
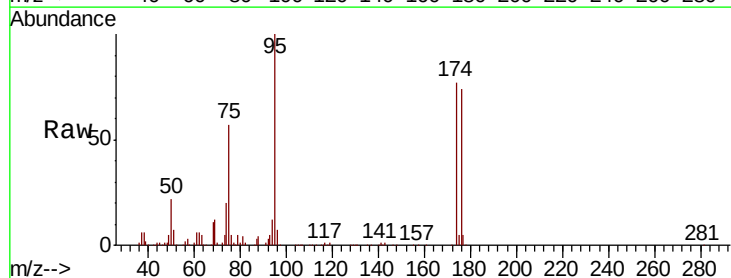
Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(4)

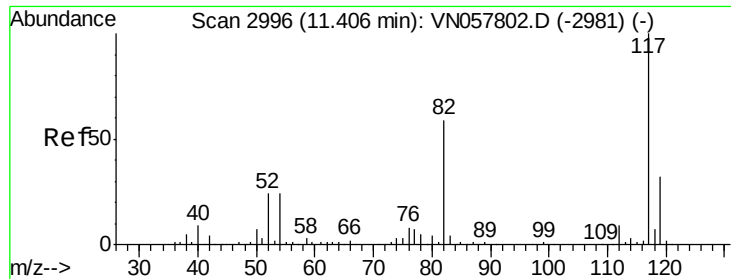
Tgt Ion: 43 Resp: 90851
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 40.629 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057982.D
Acq: 12 Sep 2019 20:27

Tgt Ion: 95 Resp: 249524
Ion Ratio Lower Upper
95 100
174 75.4 0.0 150.2
176 72.5 0.0 146.0

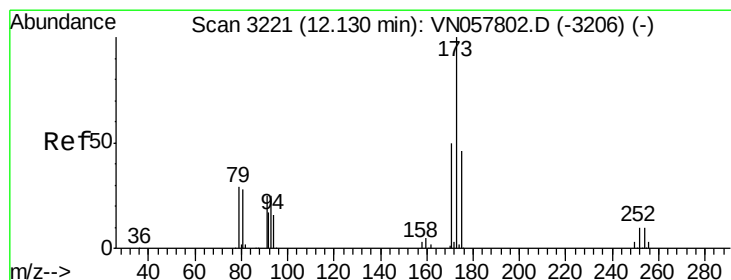
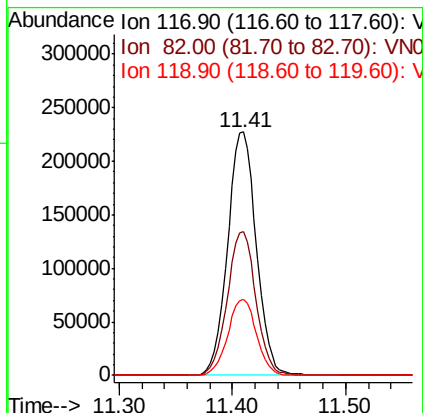
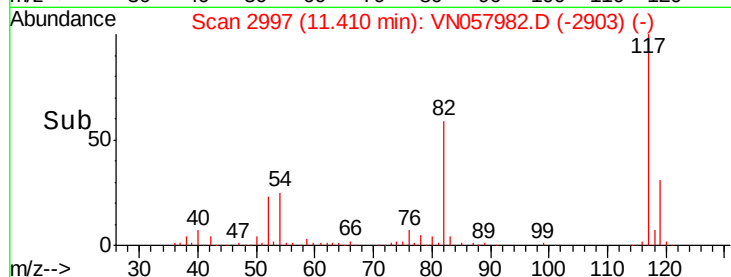
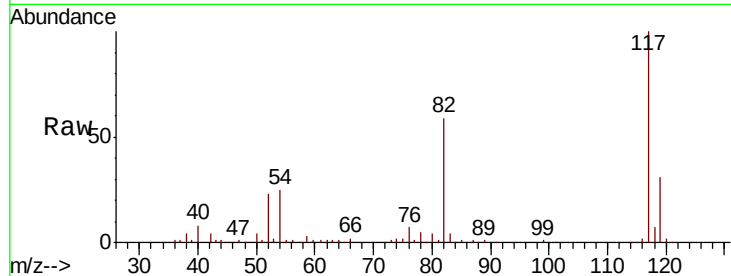




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN057982.D
Acq: 12 Sep 2019 20:27

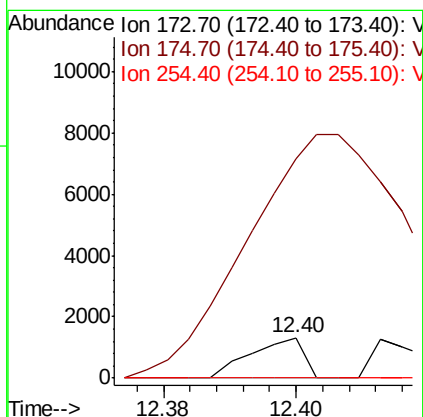
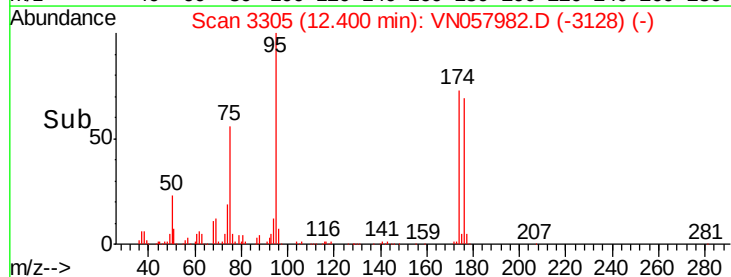
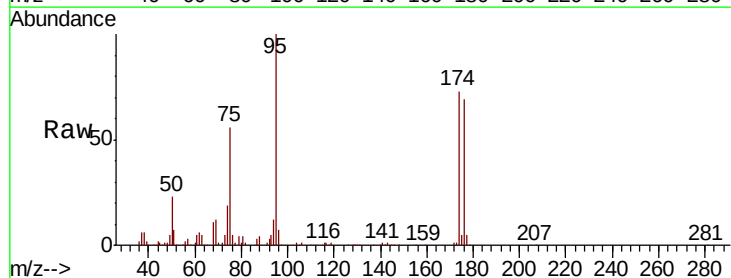
Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(4)

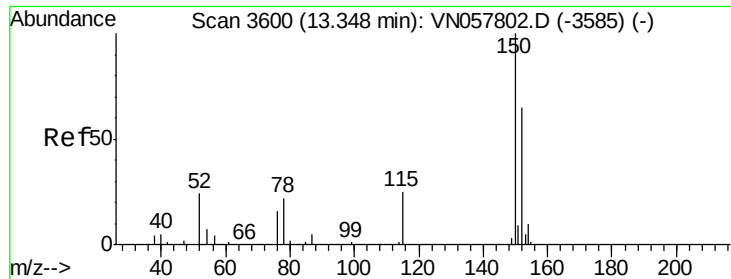
Tgt Ion:117 Resp: 400900
Ion Ratio Lower Upper
117 100
82 58.8 47.2 70.8
119 31.4 25.3 37.9



#71
Bromoform
Concen: 0.321 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057982.D
Acq: 12 Sep 2019 20:27

Tgt Ion:173 Resp: 728
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

T11-E4-(4)

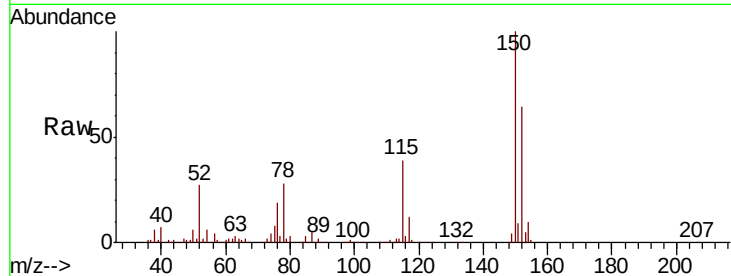
Tgt Ion:152 Resp: 202623

Ion Ratio Lower Upper

152 100

115 60.9 30.3 91.0

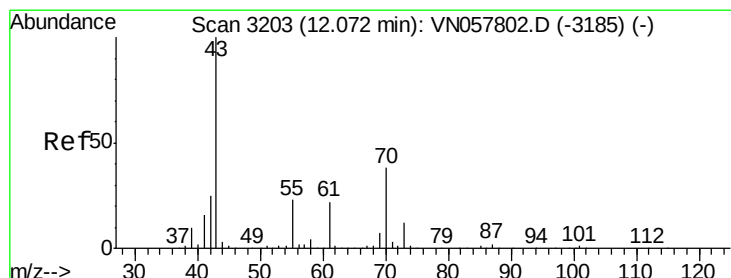
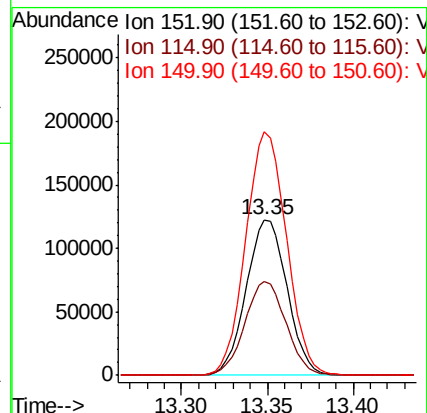
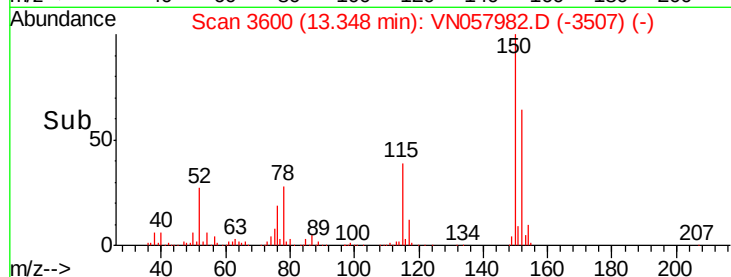
150 156.5 0.0 352.4



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: 0.427 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Tgt Ion: 43 Resp: 2923

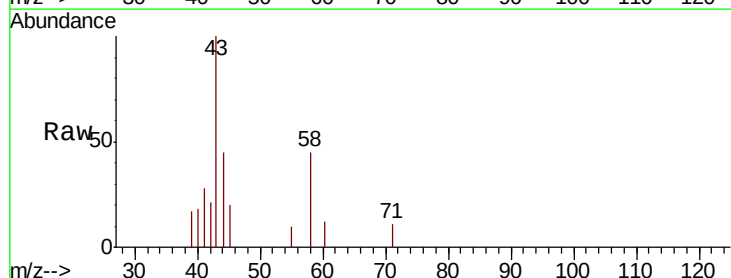
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.1 18.6 27.8#

61 0.0 17.4 26.2#

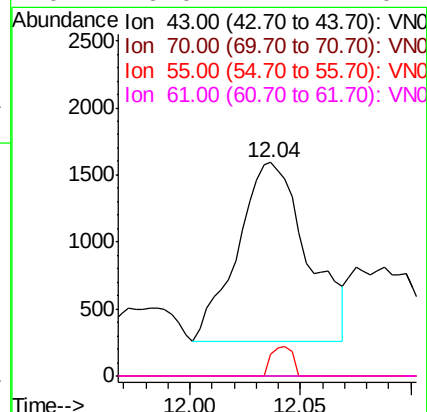
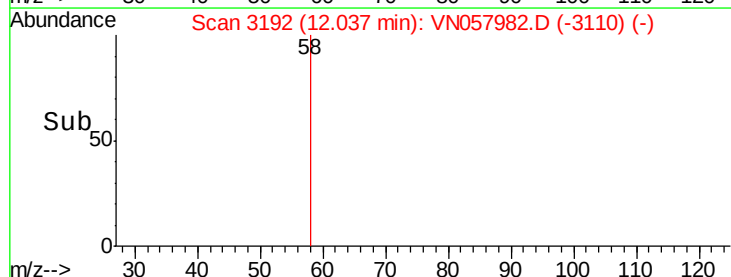


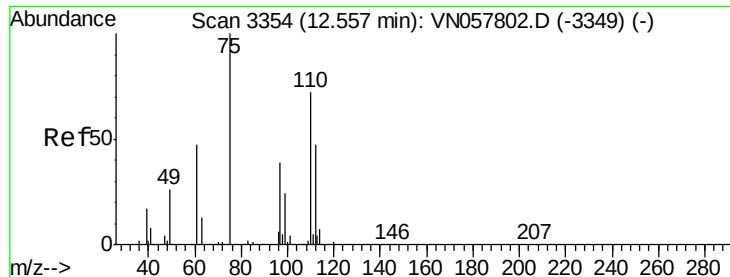
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 30.402 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

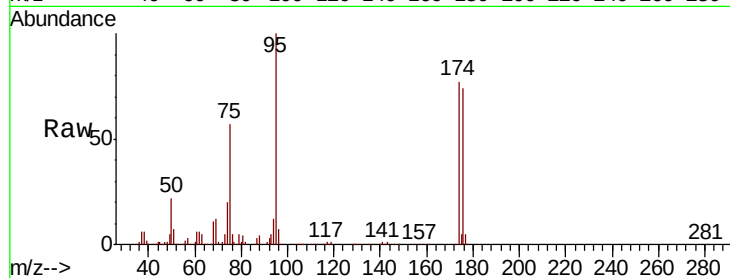
T11-E4-(4)

Tgt Ion: 75 Resp: 139351

Ion Ratio Lower Upper

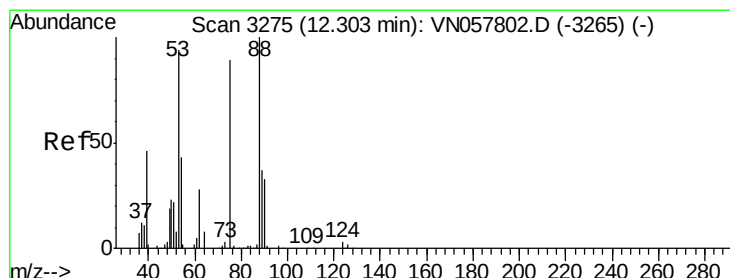
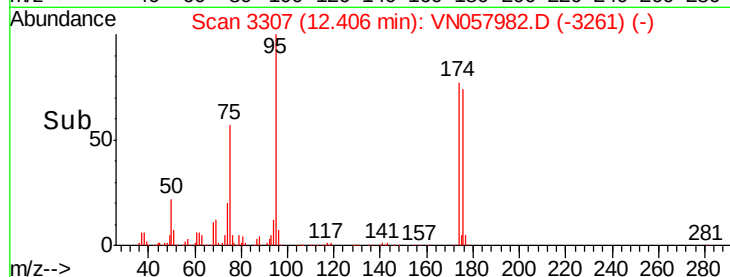
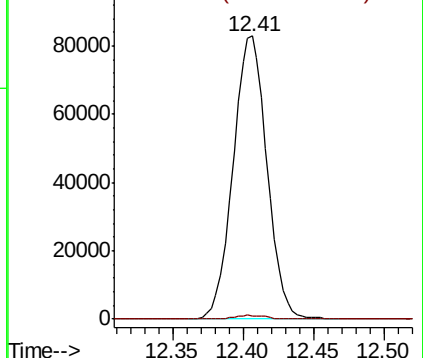
75 100

77 1.2 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: 106.984 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057982.D

Acq: 12 Sep 2019 20:27

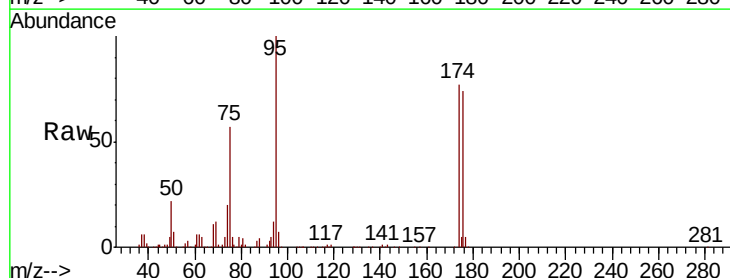
Tgt Ion: 75 Resp: 139351

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

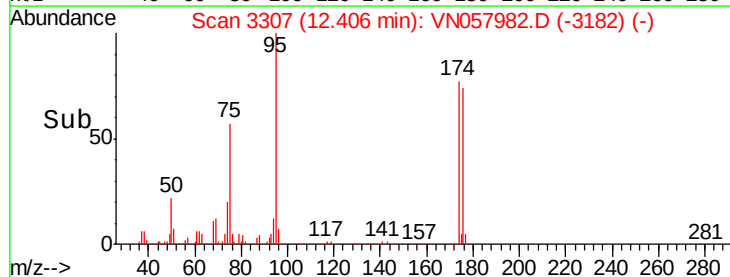
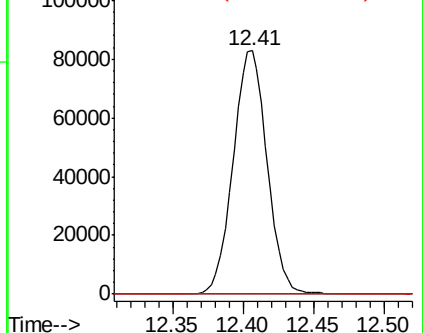
89 0.0 35.3 52.9#

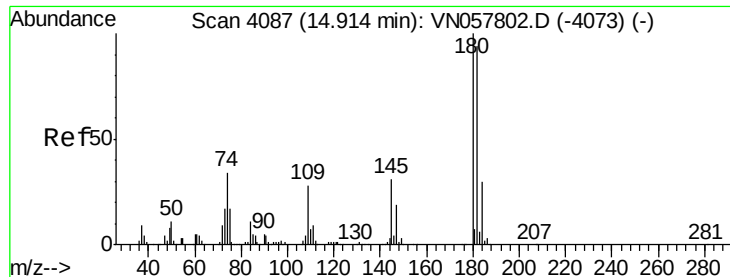


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

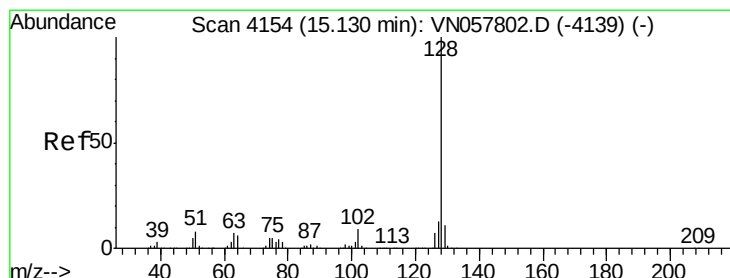
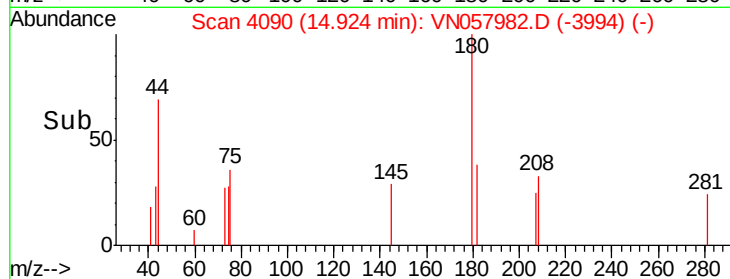
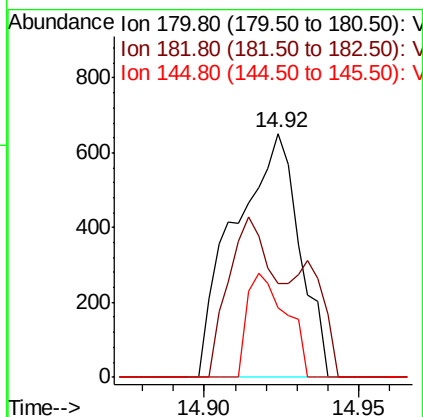
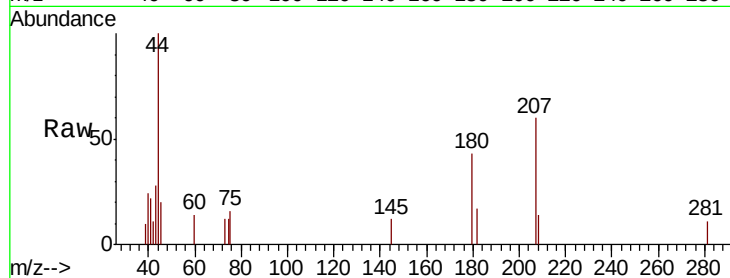




#93
 1,2,4-Trichlorobenzene
 Concen: 0.202 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

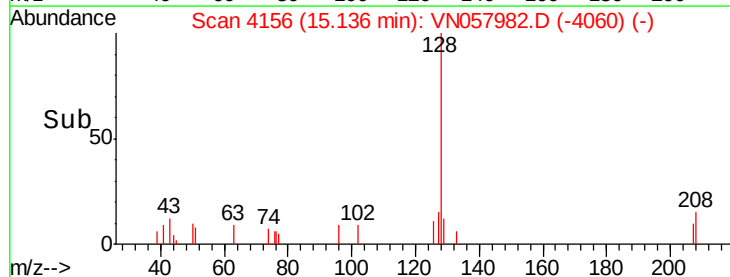
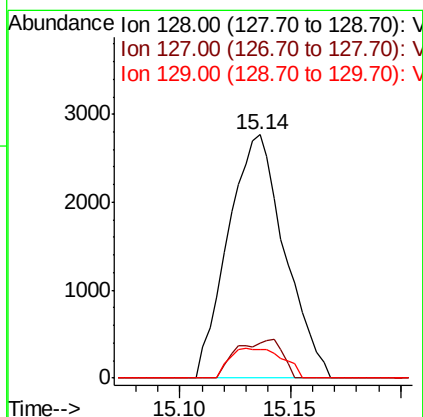
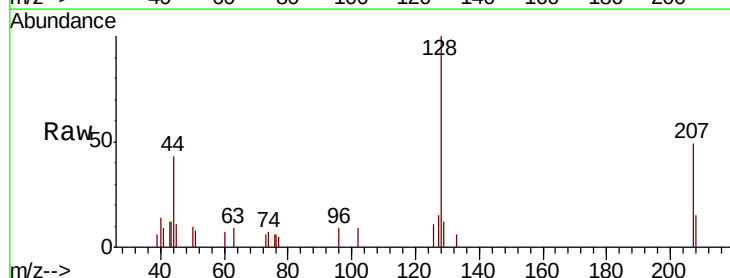
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(4)

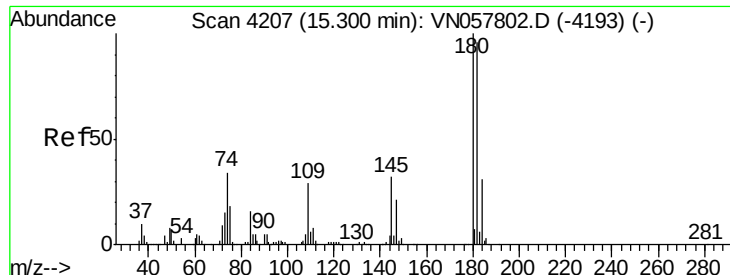
Tgt Ion:180 Resp: 948
 Ion Ratio Lower Upper
 180 100
 182 43.5 46.9 140.8#
 145 25.6 14.9 44.7



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

Tgt Ion:128 Resp: 4923
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.3 15.5
 129 11.4 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 1.276 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN057982.D
 Acq: 12 Sep 2019 20:27

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(4)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	73.4	48.3	144.8
145	5.9	16.3	48.8#

