

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057917.D
 Acq On : 11 Sep 2019 12:07
 Operator : JC/SP
 Sample : K4643-40
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D1-(0)

Quant Time: Sep 12 01:32:28 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	285140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	494658	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	443859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227963	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	330100	57.16	ug/l	0.00
Spiked Amount						
				Recovery	=	114.32%
35) Dibromofluoromethane	7.58	113	224924	49.27	ug/l	0.00
Spiked Amount						
				Recovery	=	98.54%
50) Toluene-d8	10.09	98	890874	50.26	ug/l	0.00
Spiked Amount						
				Recovery	=	100.52%
62) 4-Bromofluorobenzene	12.40	95	292744	43.34	ug/l	0.00
Spiked Amount						
				Recovery	=	86.68%

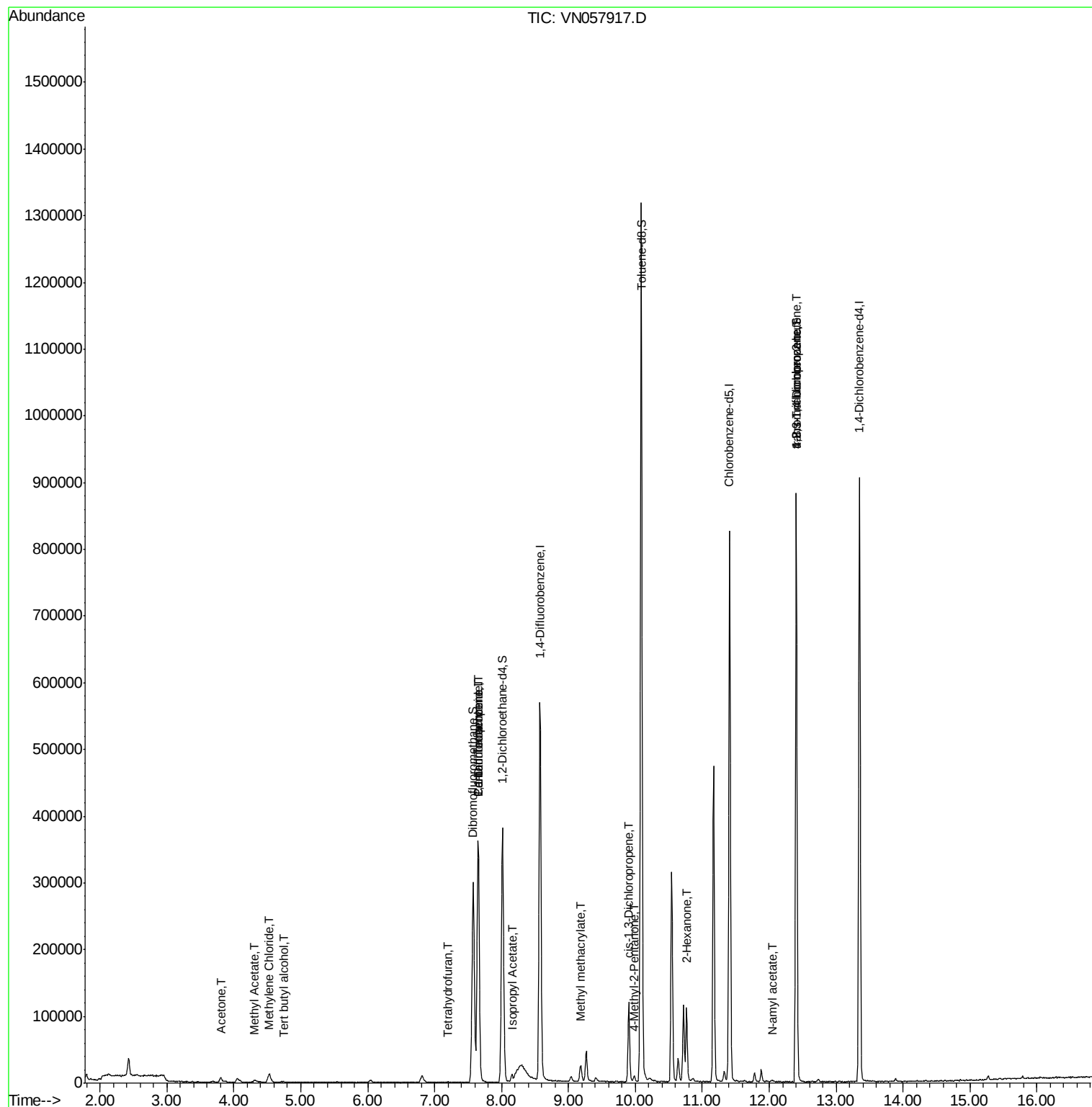
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	63	Below Cal		94
11) Tert butyl alcohol	4.73	59	295	0.422	ug/l #	72
16) Acetone	3.80	43	10714	5.659	ug/l	92
18) Methyl Acetate	4.30	43	2698	0.534	ug/l #	71
20) Methylene Chloride	4.53	84	9244	1.367	ug/l	89
29) Tetrahydrofuran	7.20	42	879	0.521	ug/l #	43
31) Cyclohexane	7.64	56	8049	Below Cal	#	47
36) 1,1-Dichloropropene	7.65	75	24532	4.276	ug/l #	46
38) Carbon Tetrachloride	7.65	117	29815	5.692	ug/l #	15
43) Isopropyl Acetate	8.16	43	13038	1.308	ug/l	95
48) Methyl methacrylate	9.18	41	3779	0.747	ug/l #	28
51) 4-Methyl-2-Pentanone	9.98	43	5905	1.001	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	20575	2.918	ug/l #	70
59) 2-Hexanone	10.76	43	15135	3.423	ug/l #	58
74) N-amyl acetate	12.04	43	2344	0.304	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	160312	31.087	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160312	109.395	ug/l #	6
95) Naphthalene	15.14	128	746	Below Cal	#	69

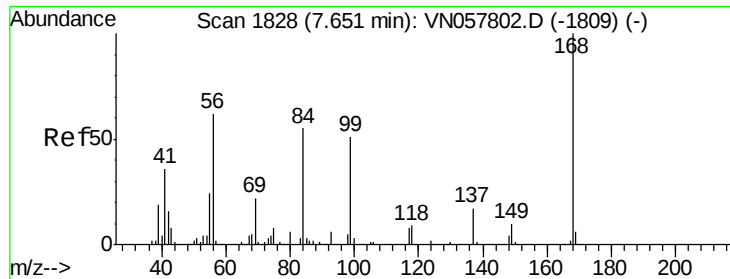
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1828

Delta R.T. 0.00 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

Instrument :

MSVOA_N

ClientSampled :

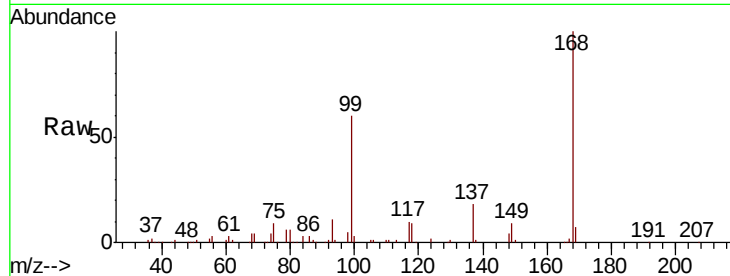
T11-D1-(0)

Tgt Ion:168 Resp: 285140

Ion Ratio Lower Upper

168 100

99 60.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

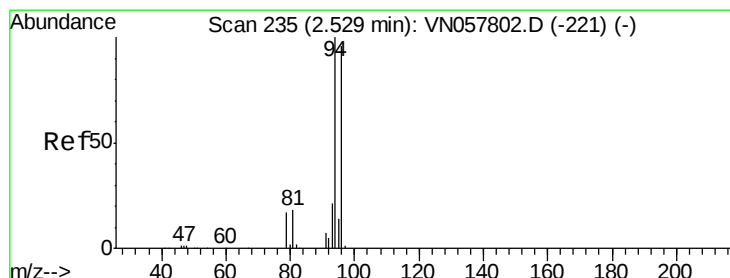
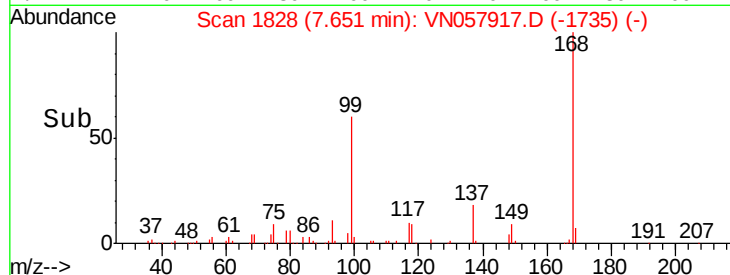
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN057917.D

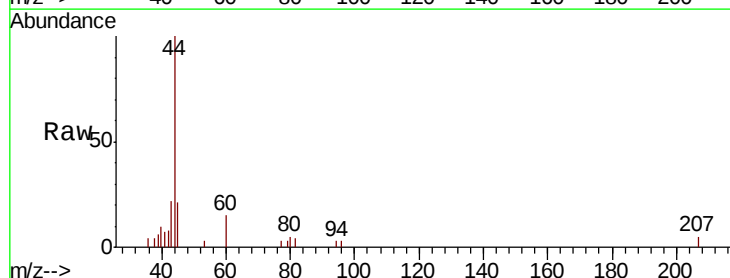
Acq: 11 Sep 2019 12:07

Tgt Ion: 94 Resp: 63

Ion Ratio Lower Upper

94 100

96 90.7 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

250

200

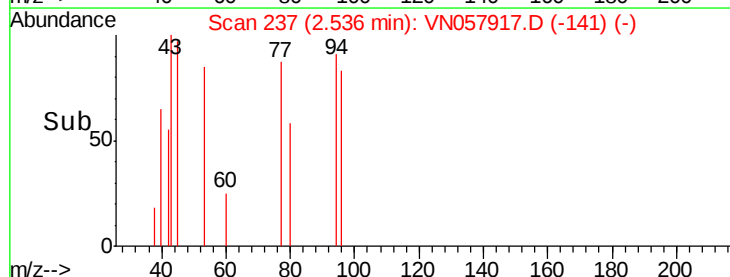
150

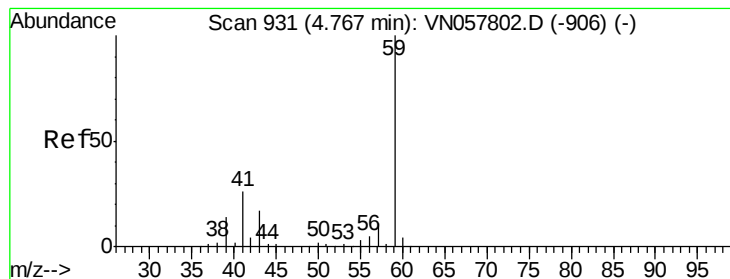
100

50

0

Time-->



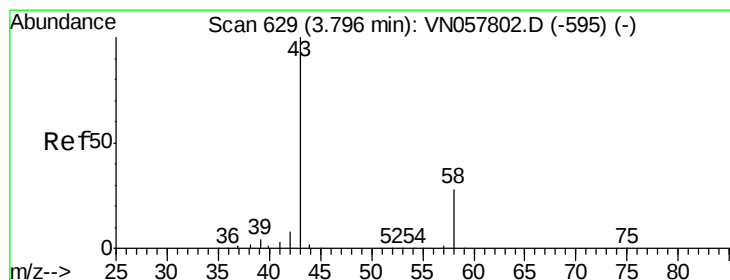
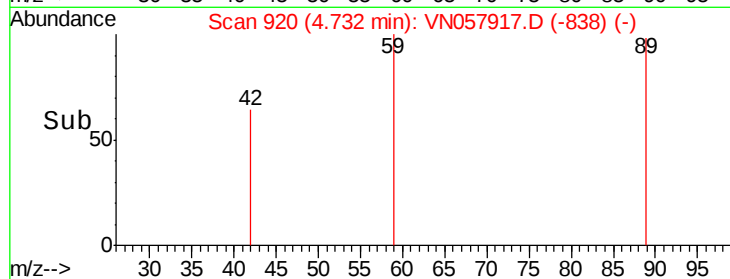
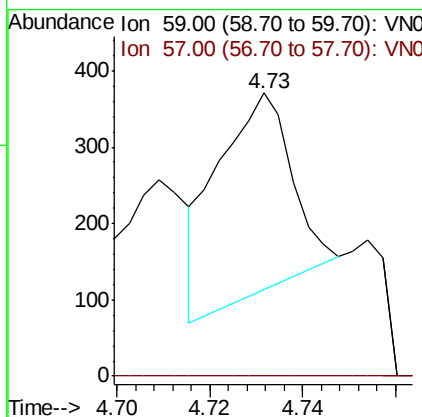
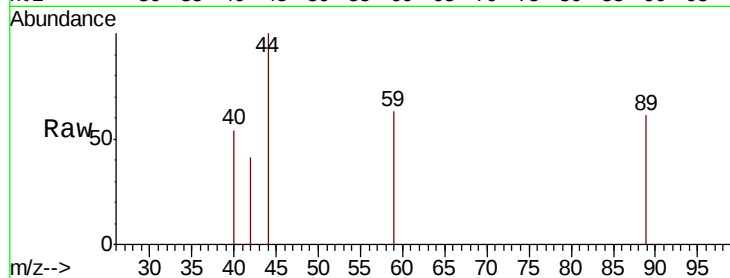


#11

Tert butyl alcohol
 Concen: 0.422 ug/l
 RT: 4.73 min Scan# 920
 Delta R.T. -0.04 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

Instrument :
 MSVOA_N
 ClientSampled :
 T11-D1-(0)

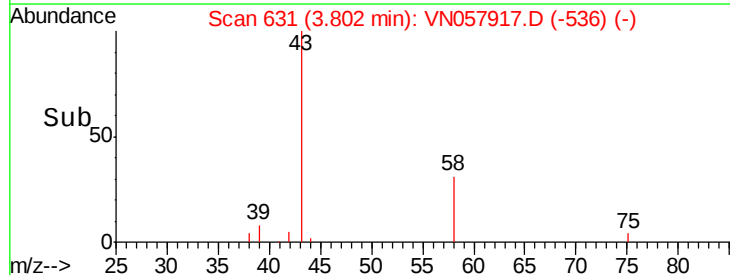
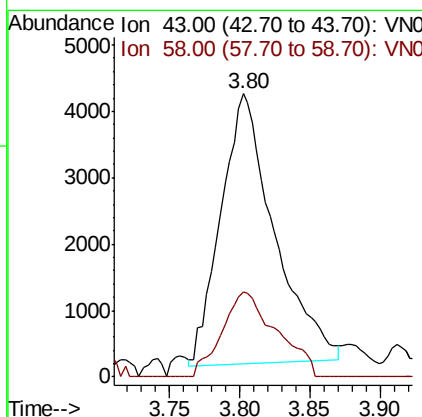
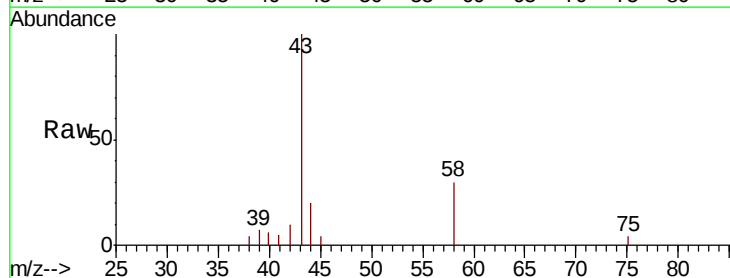
Tgt Ion: 59 Resp: 295
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

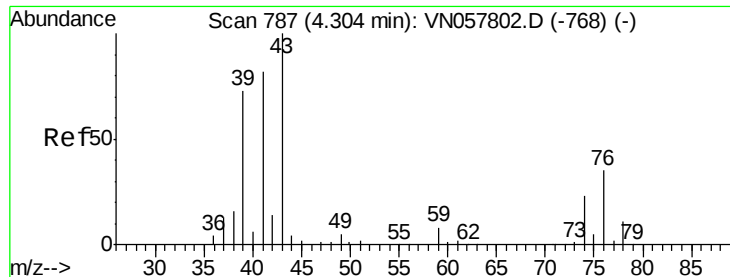


#16

Acetone
 Concen: 5.659 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

Tgt Ion: 43 Resp: 10714
 Ion Ratio Lower Upper
 43 100
 58 32.1 22.2 33.2

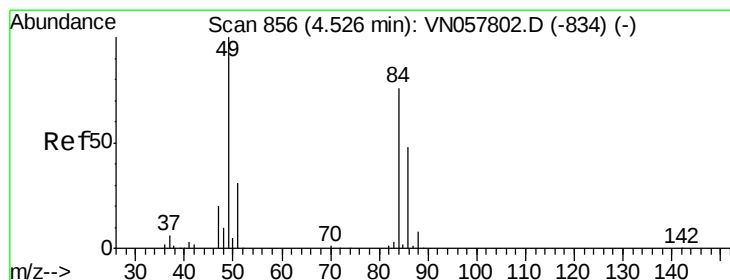
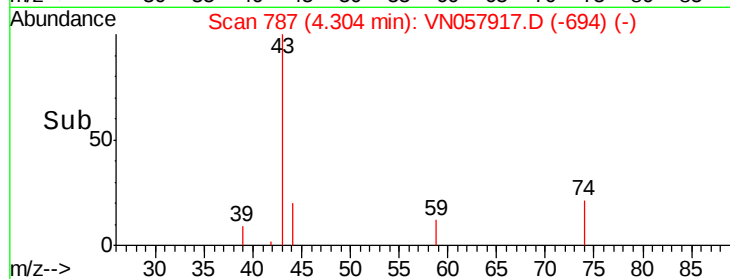
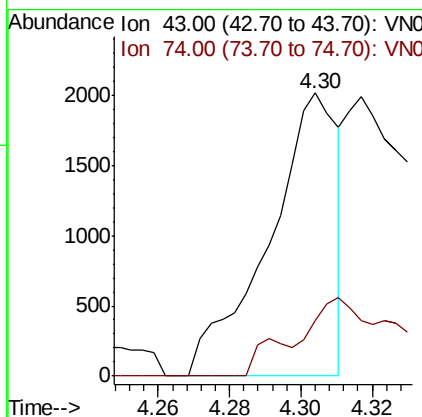
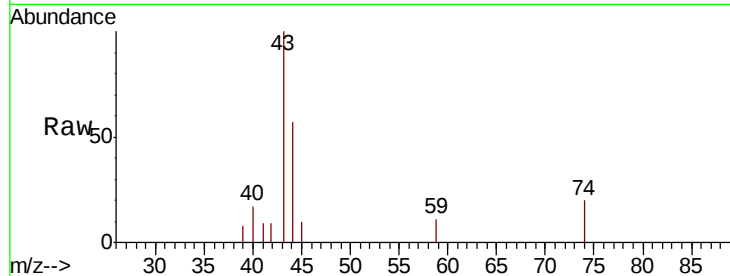




#18
Methyl Acetate
Concen: 0.534 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057917.D
Acq: 11 Sep 2019 12:07

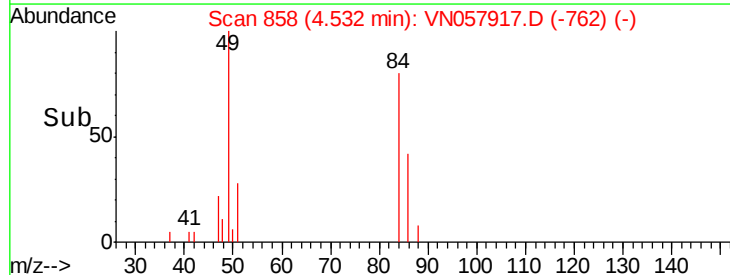
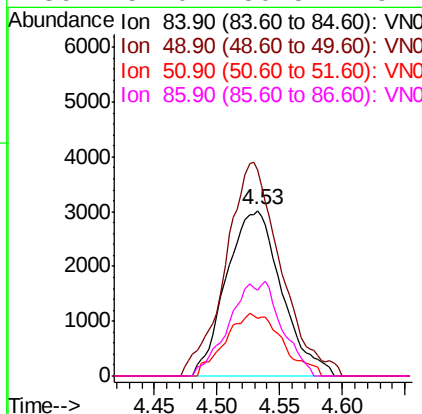
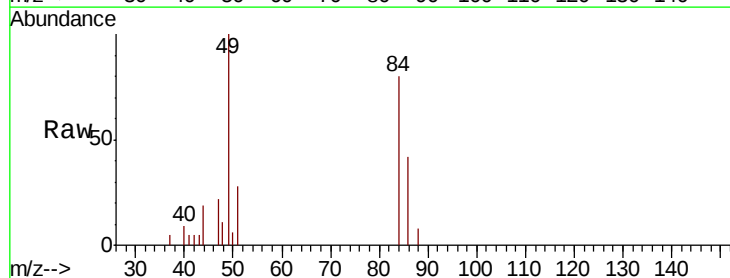
Instrument :
MSVOA_N
ClientSampleId :
T11-D1-(0)

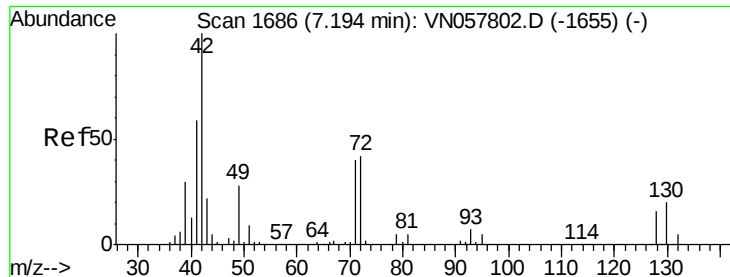
Tgt Ion: 43 Resp: 2698
Ion Ratio Lower Upper
43 100
74 36.2 17.9 26.9#



#20
Methylene Chloride
Concen: 1.367 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057917.D
Acq: 11 Sep 2019 12:07

Tgt Ion: 84 Resp: 9244
Ion Ratio Lower Upper
84 100
49 119.5 104.8 157.2
51 34.8 33.0 49.4
86 52.0 50.5 75.7





#29

Tetrahydrofuran

Concen: 0.521 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

T11-D1-(0)

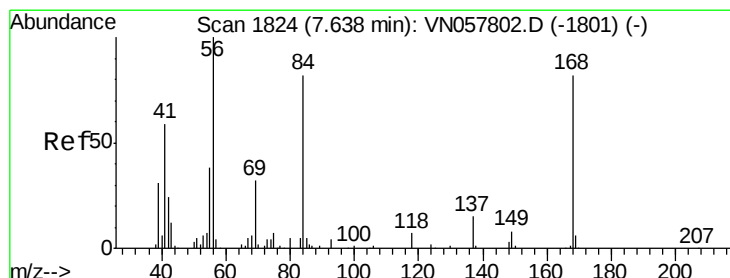
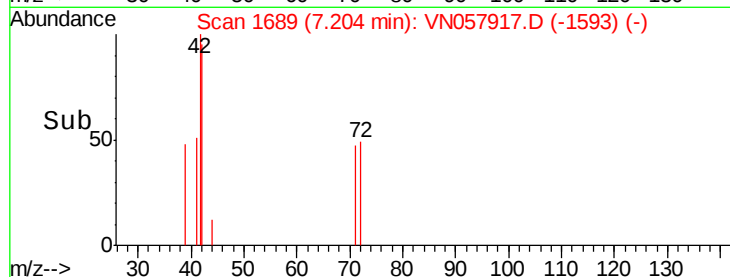
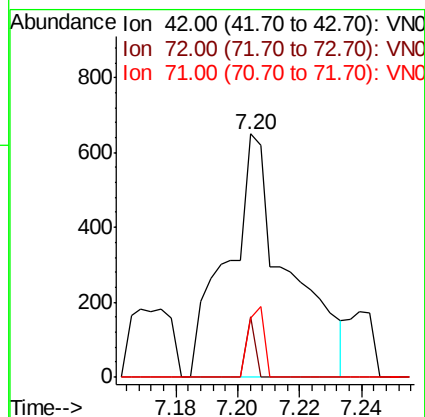
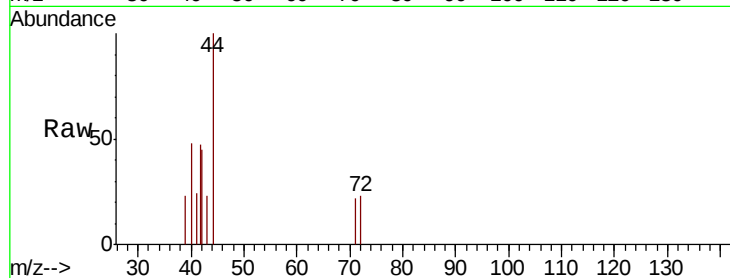
Tgt Ion: 42 Resp: 879

Ion Ratio Lower Upper

42 100

72 3.5 33.7 50.5#

71 7.6 31.9 47.9#



#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

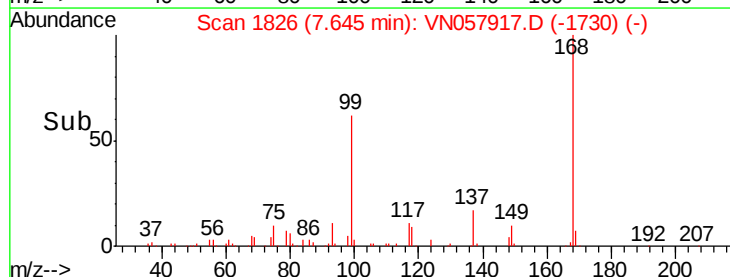
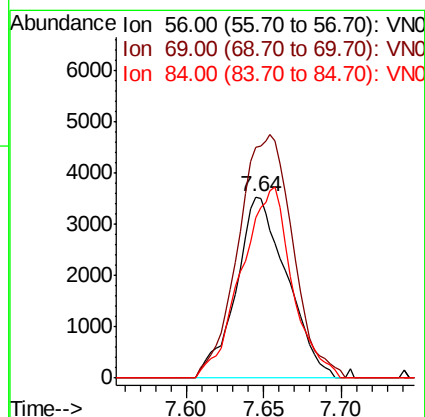
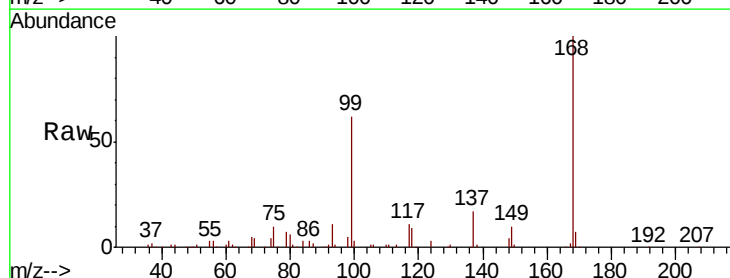
Tgt Ion: 56 Resp: 8049

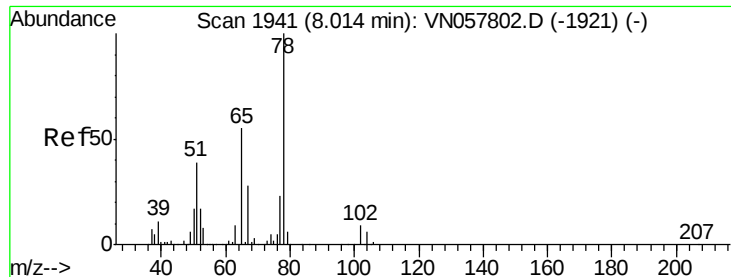
Ion Ratio Lower Upper

56 100

69 127.5 25.9 38.9#

84 88.6 65.6 98.4

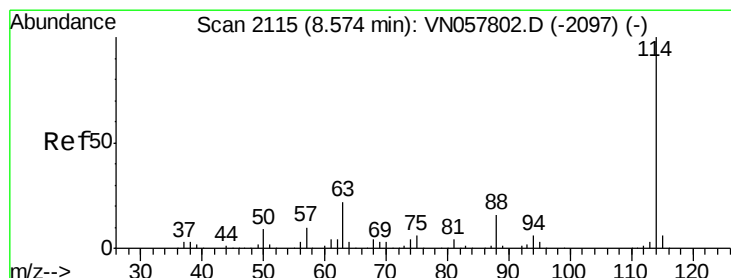
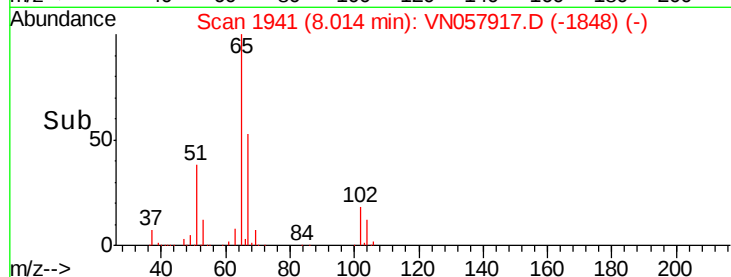
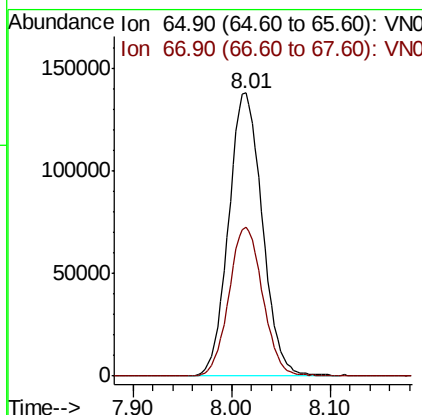
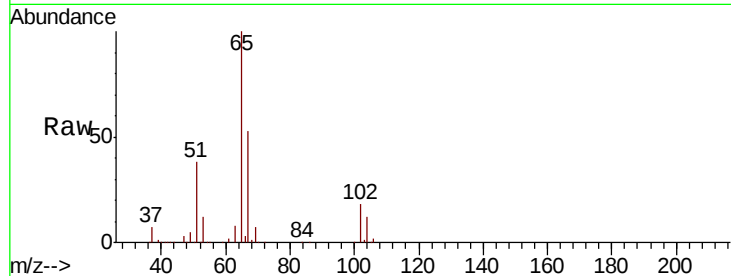




#33
 1,2-Dichloroethane-d4
 Concen: 57.157 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

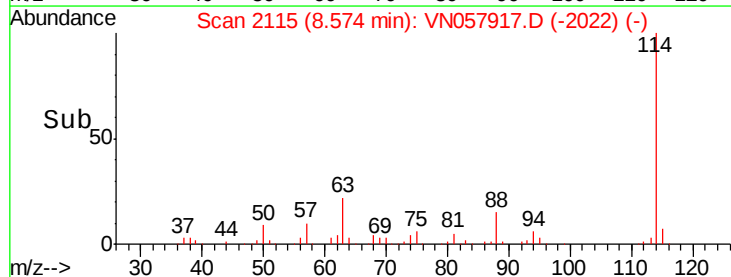
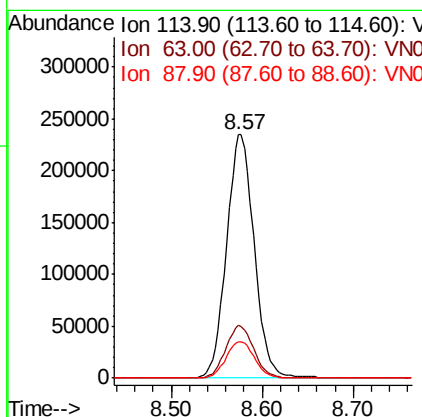
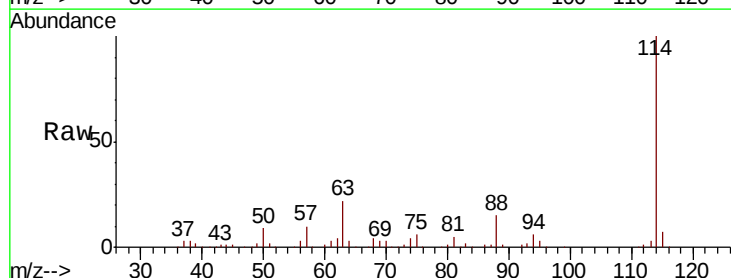
Instrument :
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 T11-D1-(0)

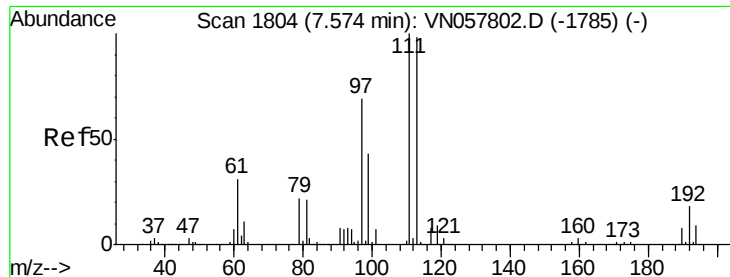
Tgt Ion: 65 Resp: 330100
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

Tgt Ion: 114 Resp: 494658
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 44.0
 88 15.1 0.0 31.4

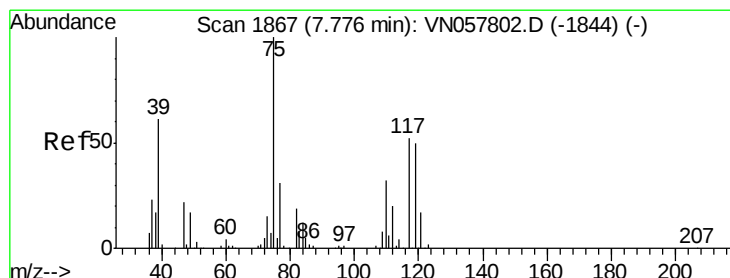
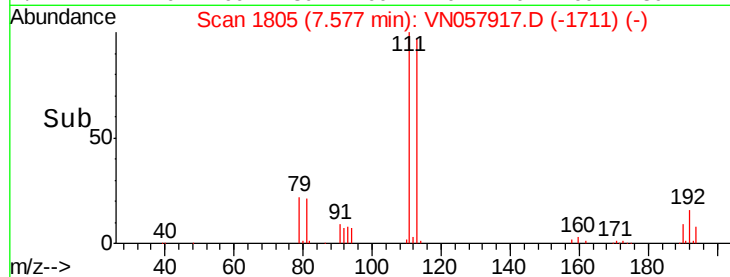
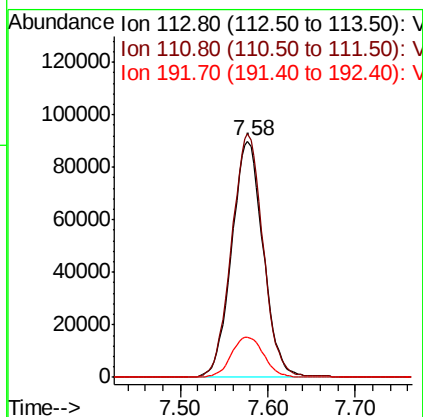
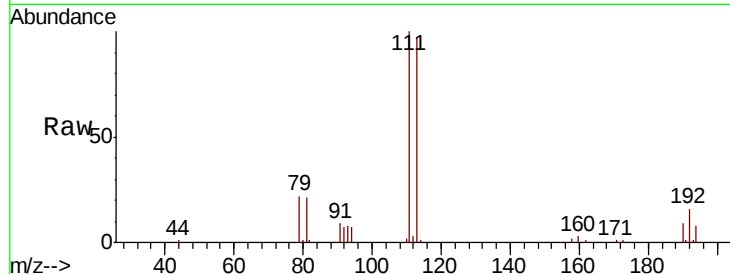




#35
 Dibromofluoromethane
 Concen: 49.266 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

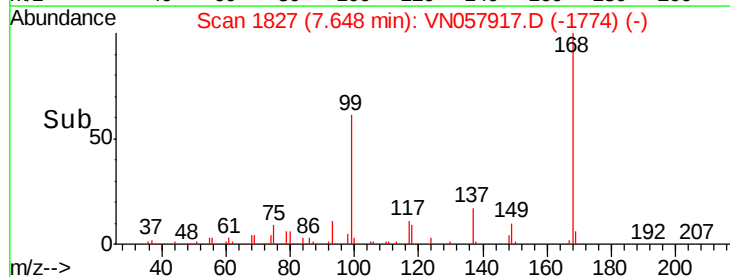
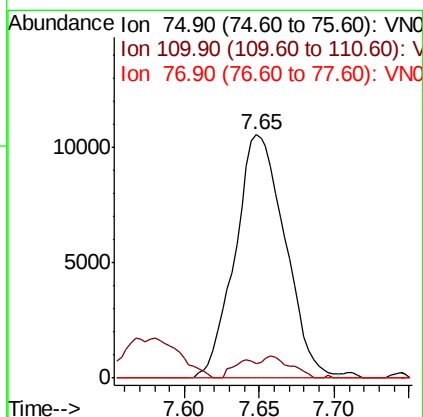
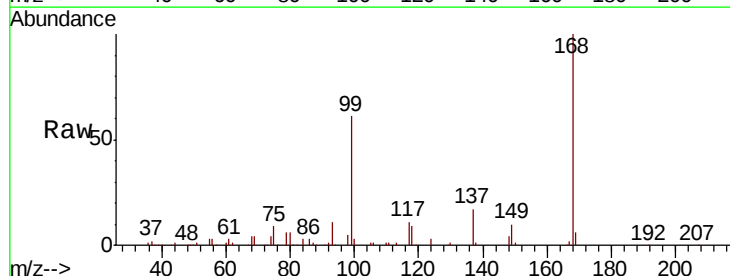
Instrument :
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 T11-D1-(0)

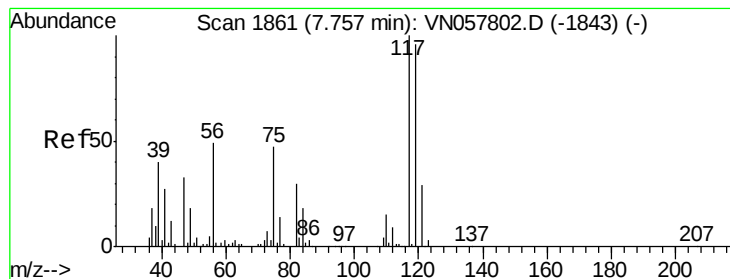
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.3	121.9
192	17.6	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.276 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.4	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.692 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

T11-D1-(0)

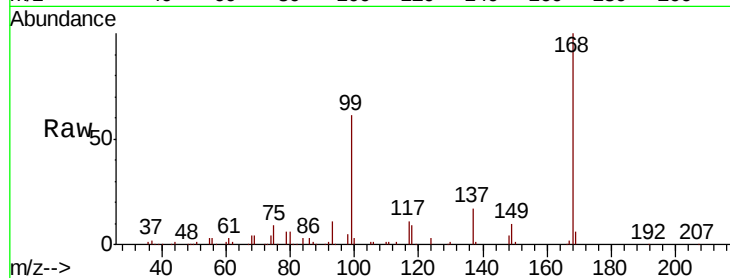
Tgt Ion:117 Resp: 29815

Ion Ratio Lower Upper

117 100

119 4.2 76.9 115.3#

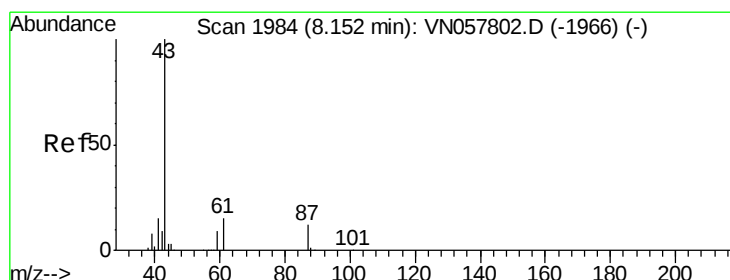
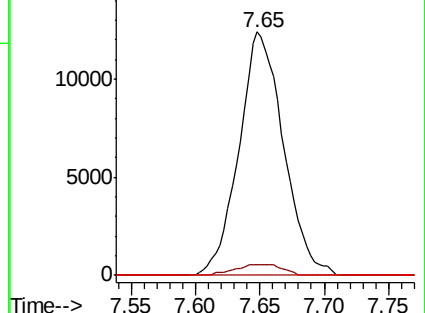
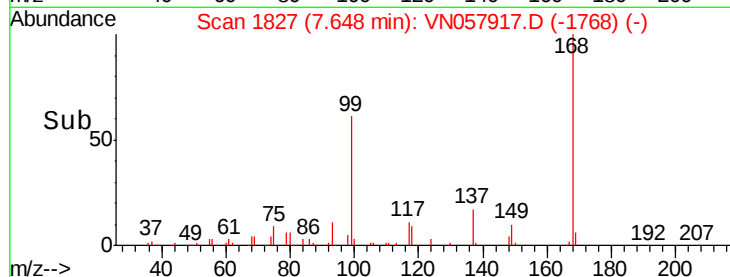
121 0.0 23.4 35.2#



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: 1.308 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

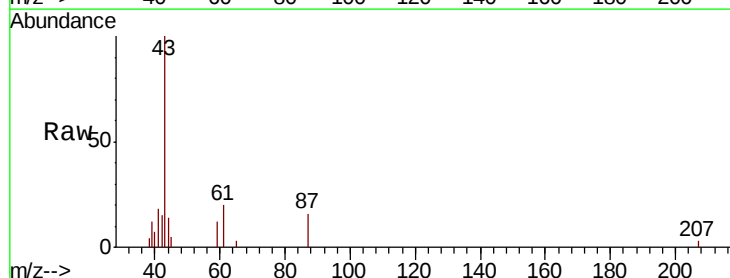
Tgt Ion: 43 Resp: 13038

Ion Ratio Lower Upper

43 100

61 21.8 20.1 30.1

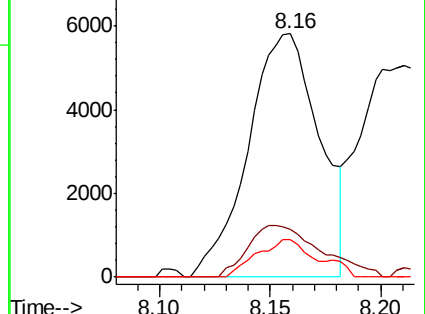
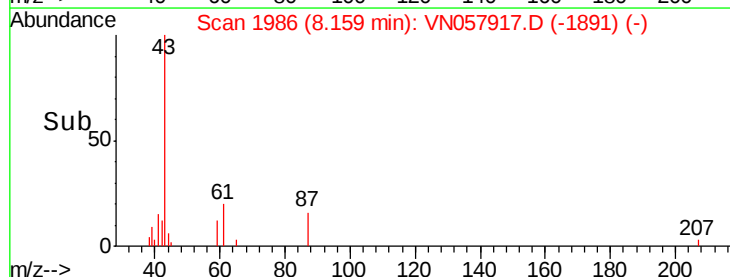
87 13.0 9.5 14.3

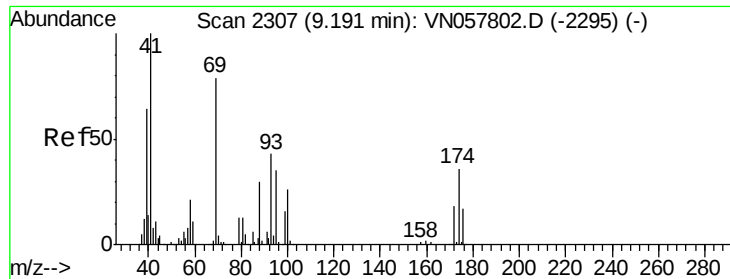


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

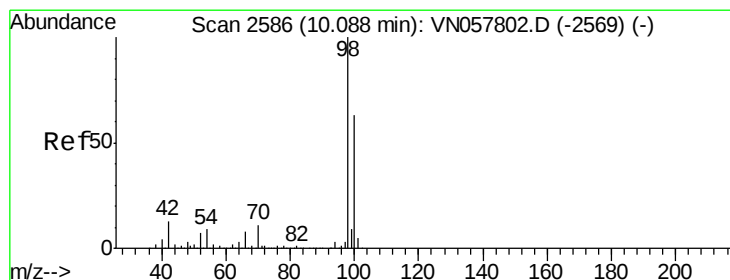
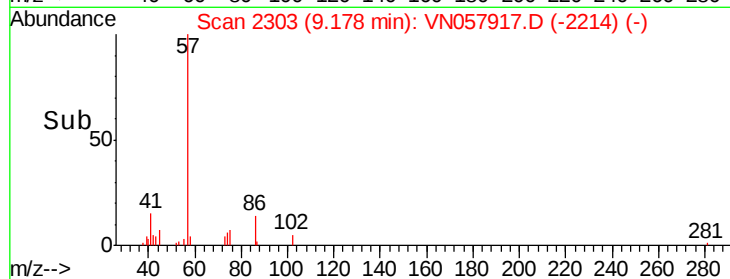
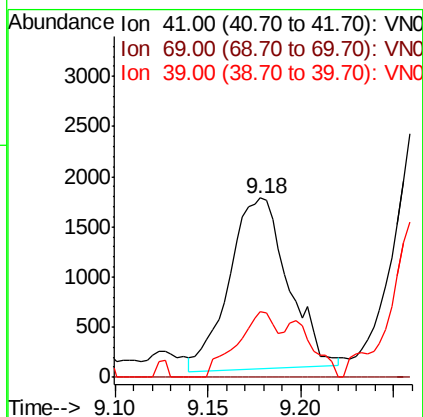
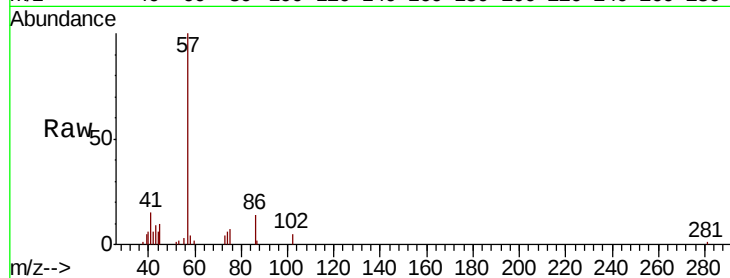




#48
Methyl methacrylate
Concen: 0.747 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057917.D
Acq: 11 Sep 2019 12:07

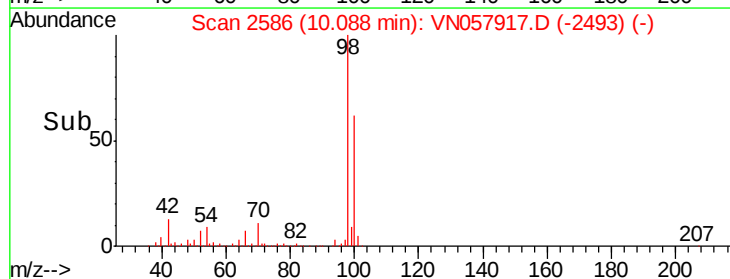
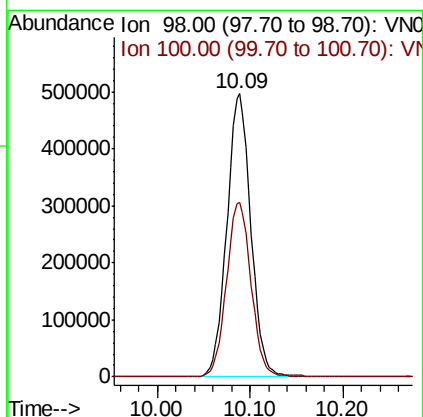
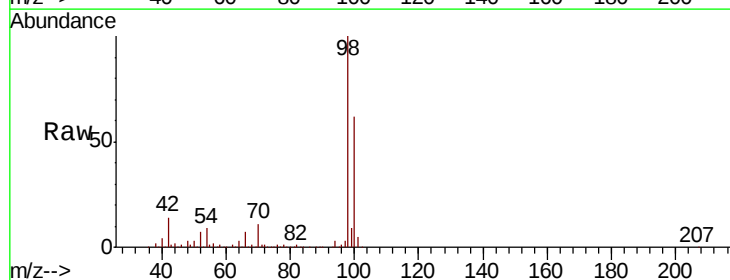
Instrument :
MSVOA_N
ClientSampleId :
T11-D1-(0)

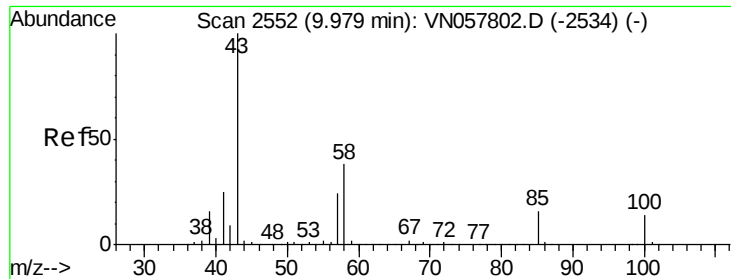
Tgt Ion: 41 Resp: 3779
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 25.1 52.7 79.1#



#50
Toluene-d8
Concen: 50.259 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057917.D
Acq: 11 Sep 2019 12:07

Tgt Ion: 98 Resp: 890874
Ion Ratio Lower Upper
98 100
100 63.0 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.001 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

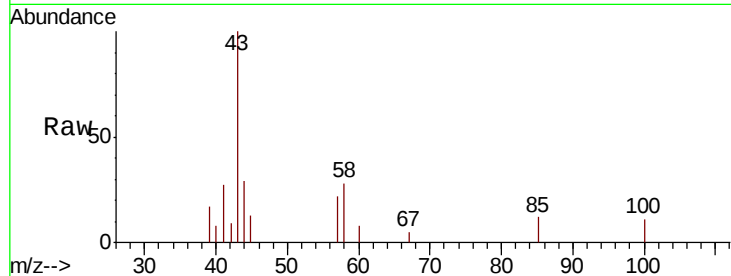
T11-D1-(0)

Tgt Ion: 43 Resp: 5905

Ion Ratio Lower Upper

43 100

58 37.2 29.8 44.6



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

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

20000

15000

10000

5000

0

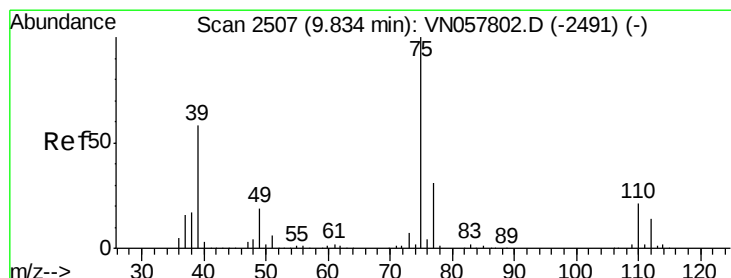
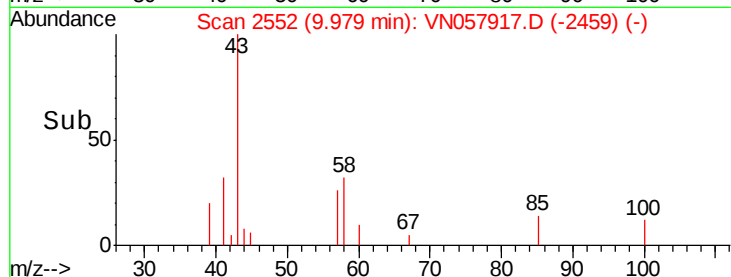
9.95

9.98

10.00

10.05

Time-->



#54

cis-1,3-Dichloropropene

Concen: 2.918 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

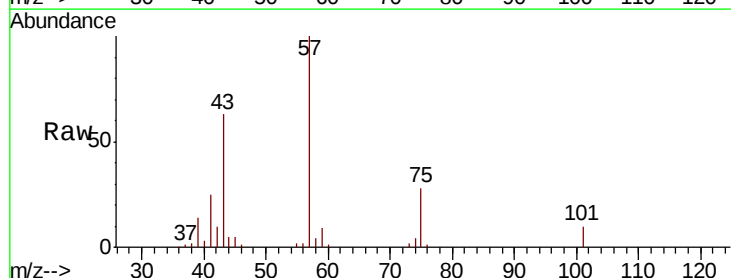
Tgt Ion: 75 Resp: 20575

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 46.4 46.2 69.4



Abundance Ion 74.90 (74.60 to 75.60): VN057917.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN057917.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN057917.D (-2414) (-)

15000

10000

5000

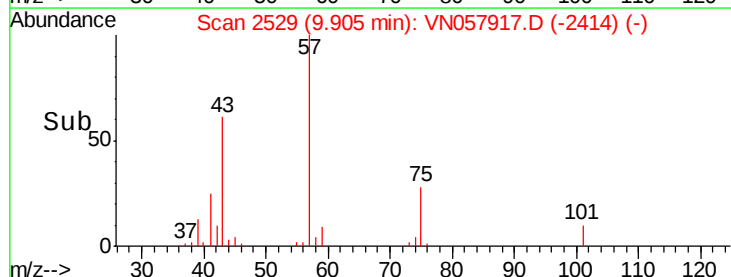
0

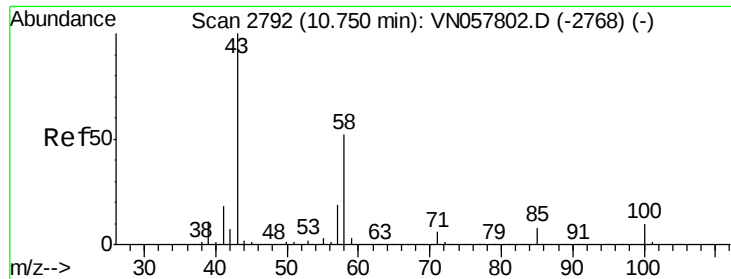
9.85

9.90

9.95

Time-->

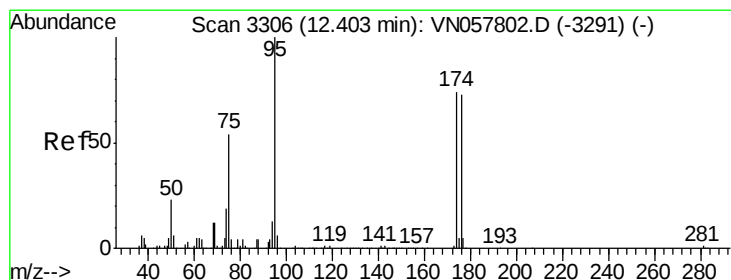
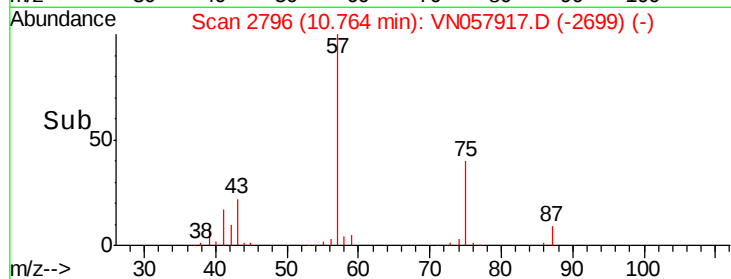
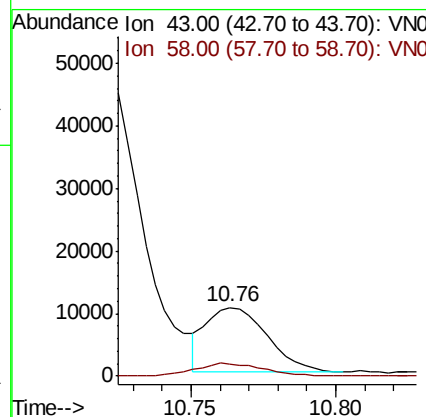
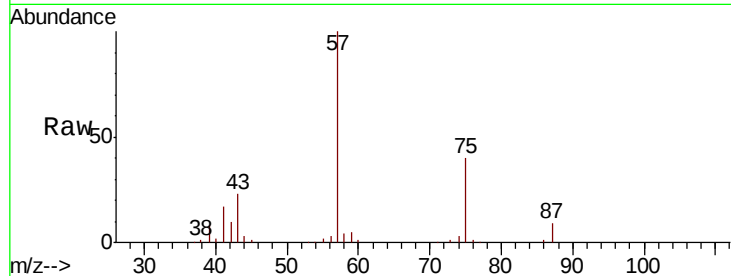




#59
 2-Hexanone
 Concen: 3.423 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

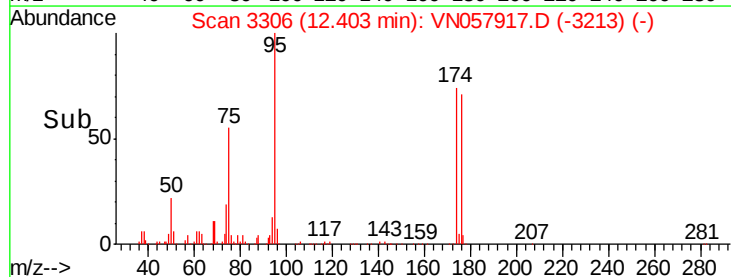
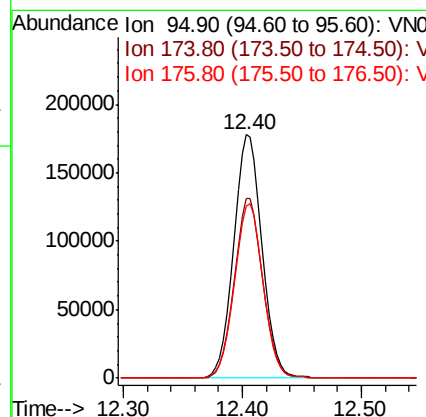
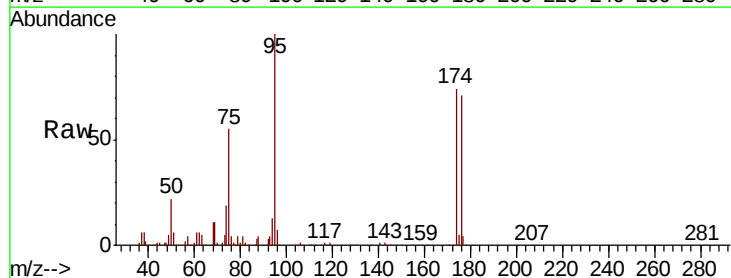
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D1-(0)

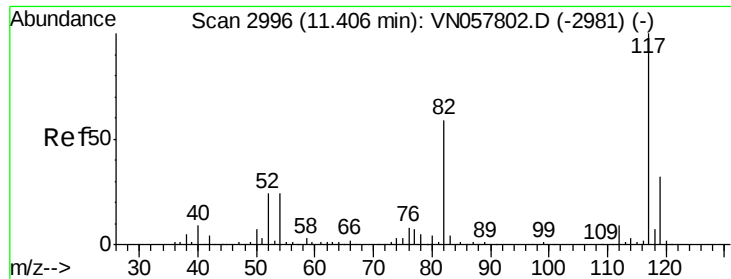
Tgt Ion: 43 Resp: 15135
 Ion Ratio Lower Upper
 43 100
 58 21.9 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.337 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

Tgt Ion: 95 Resp: 292744
 Ion Ratio Lower Upper
 95 100
 174 74.1 0.0 150.2
 176 72.4 0.0 146.0

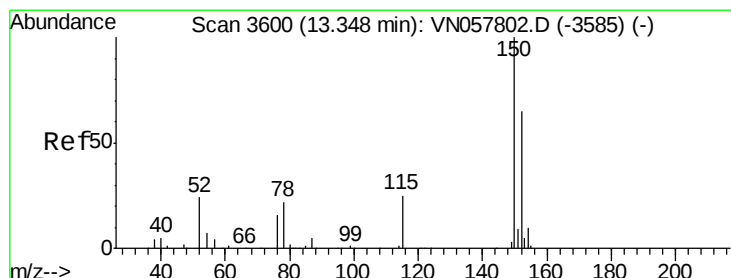
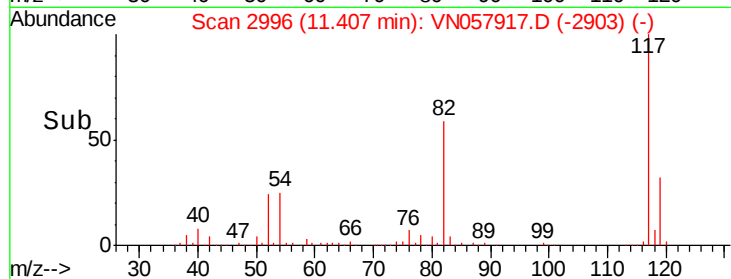
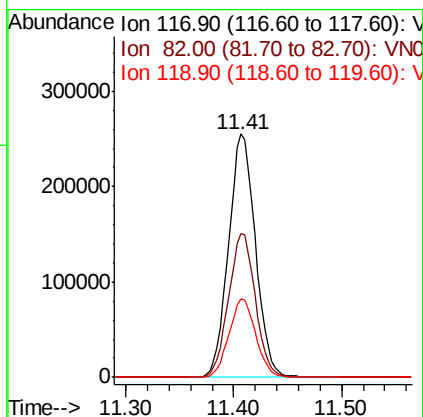
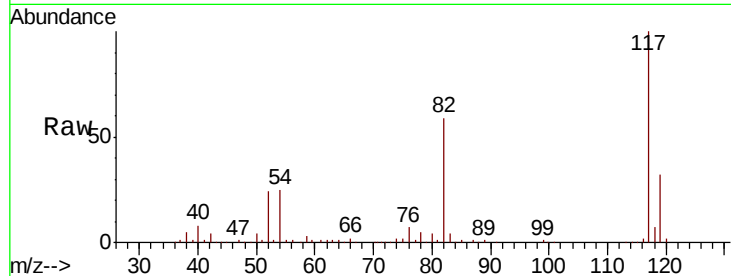




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

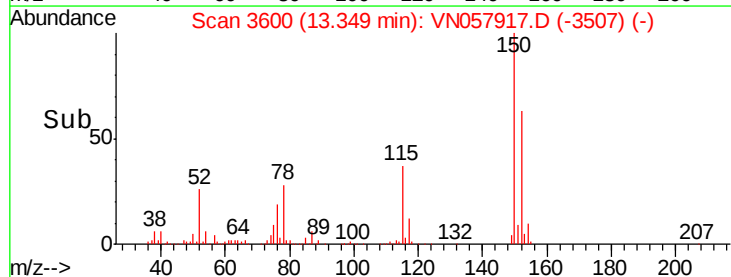
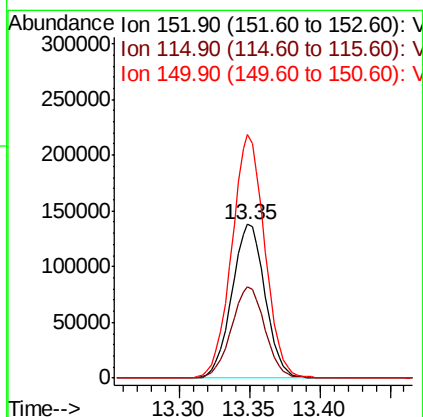
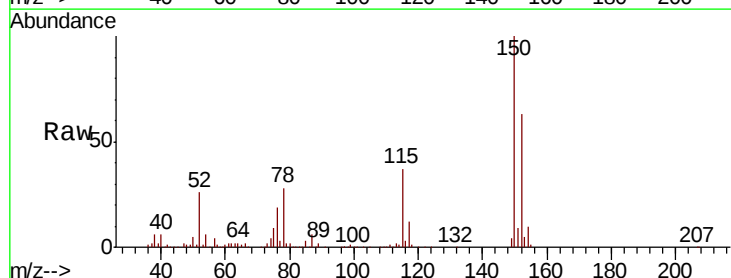
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D1-(0)

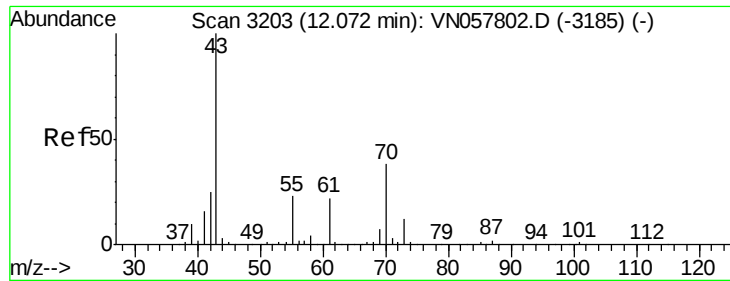
Tgt Ion:117 Resp: 443859
 Ion Ratio Lower Upper
 117 100
 82 59.2 47.2 70.8
 119 32.2 25.3 37.9



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057917.D
 Acq: 11 Sep 2019 12:07

Tgt Ion:152 Resp: 227963
 Ion Ratio Lower Upper
 152 100
 115 59.8 30.3 91.0
 150 156.9 0.0 352.4





#74

N-ethyl acetate

Concen: 0.304 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057917.D

Acq: 11 Sep 2019 12:07

Instrument :

MSVOA_N

ClientSampleID :

T11-D1-(0)

Tgt Ion: 43 Resp: 2344

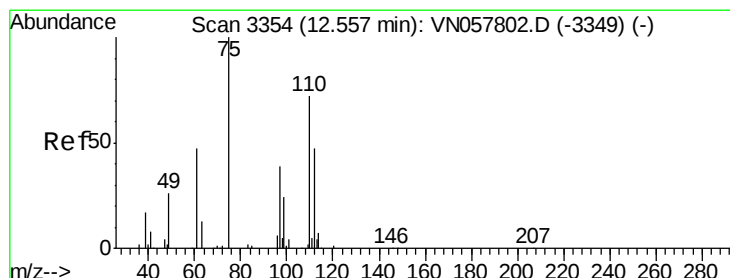
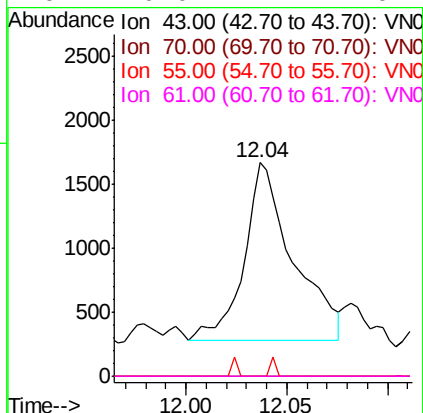
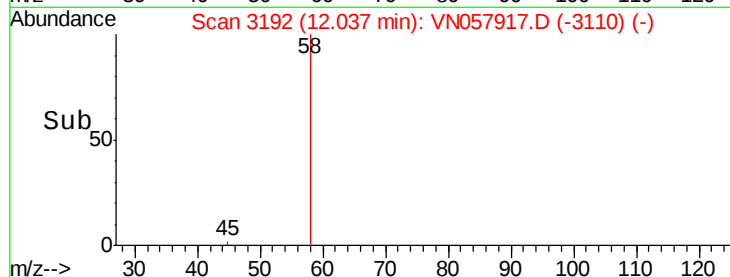
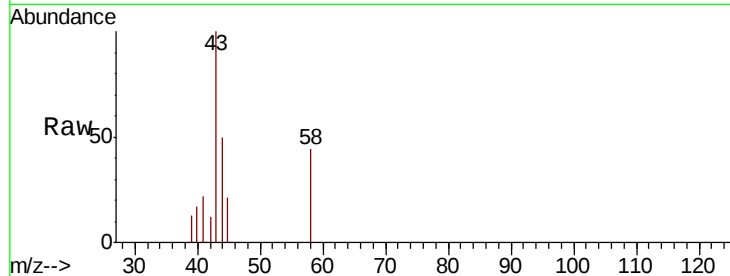
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.2 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 31.087 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057917.D

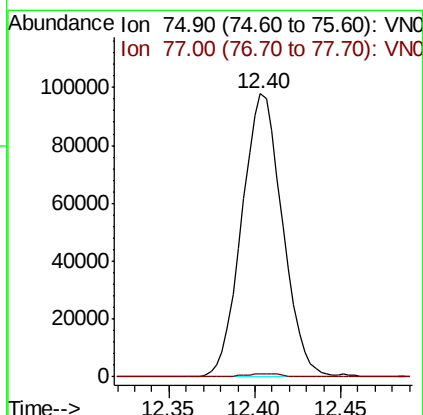
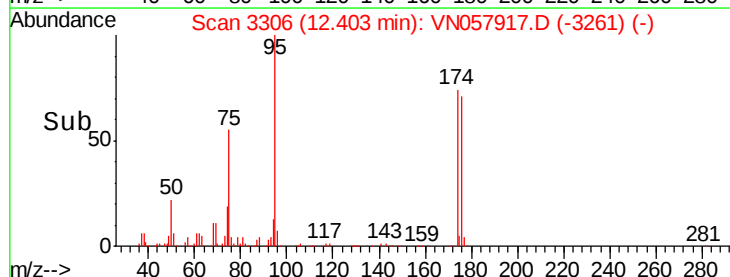
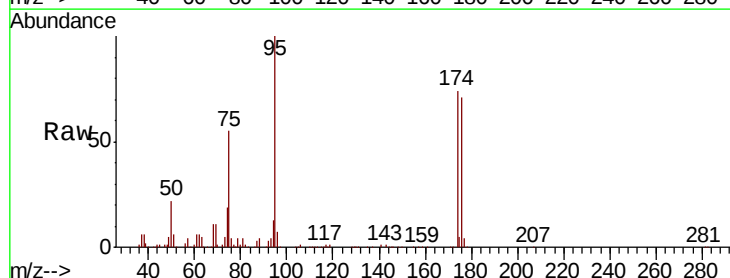
Acq: 11 Sep 2019 12:07

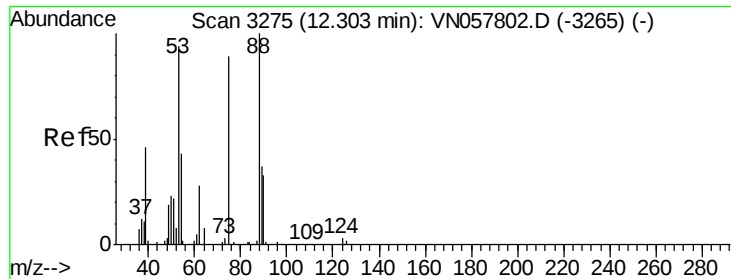
Tgt Ion: 75 Resp: 160312

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

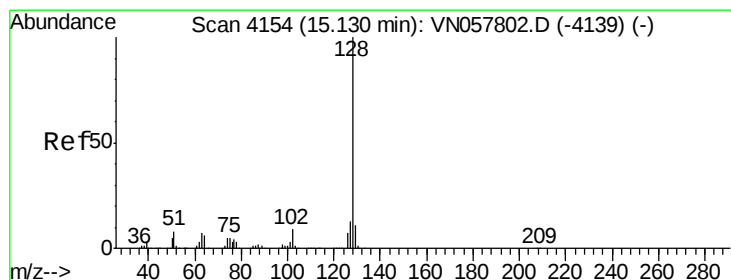
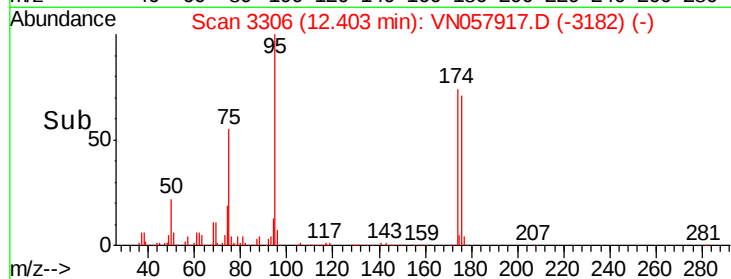
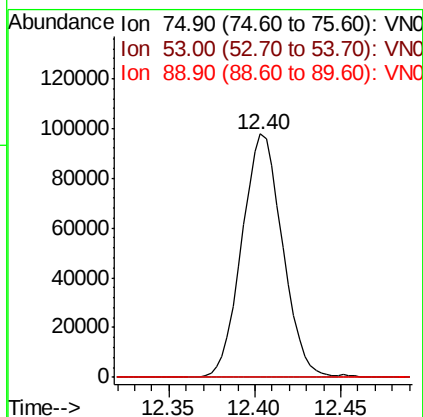
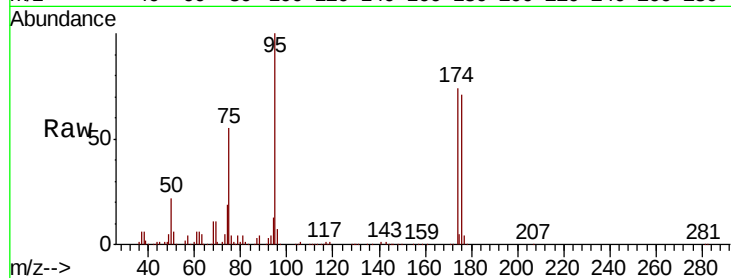




#81
trans-1,4-Dichloro-2-butene
Concen: 109.395 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057917.D
Acq: 11 Sep 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
T11-D1-(0)

Tgt Ion: 75 Resp: 160312
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# 4158
Delta R.T. 0.01 min
Lab File: VN057917.D
Acq: 11 Sep 2019 12:07

Tgt Ion: 128 Resp: 746
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

