

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057970.D
 Acq On : 12 Sep 2019 14:52
 Operator : JC/SP
 Sample : K4644-25
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E1-(0)

Quant Time: Sep 13 04:45:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	279284	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	478533	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	439219	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	225330	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	318965	56.39	ug/l	0.00
Spiked Amount			Recovery	=	112.78%	
35) Dibromofluoromethane	7.58	113	219064	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	10.09	98	856829	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	12.41	95	289202	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	

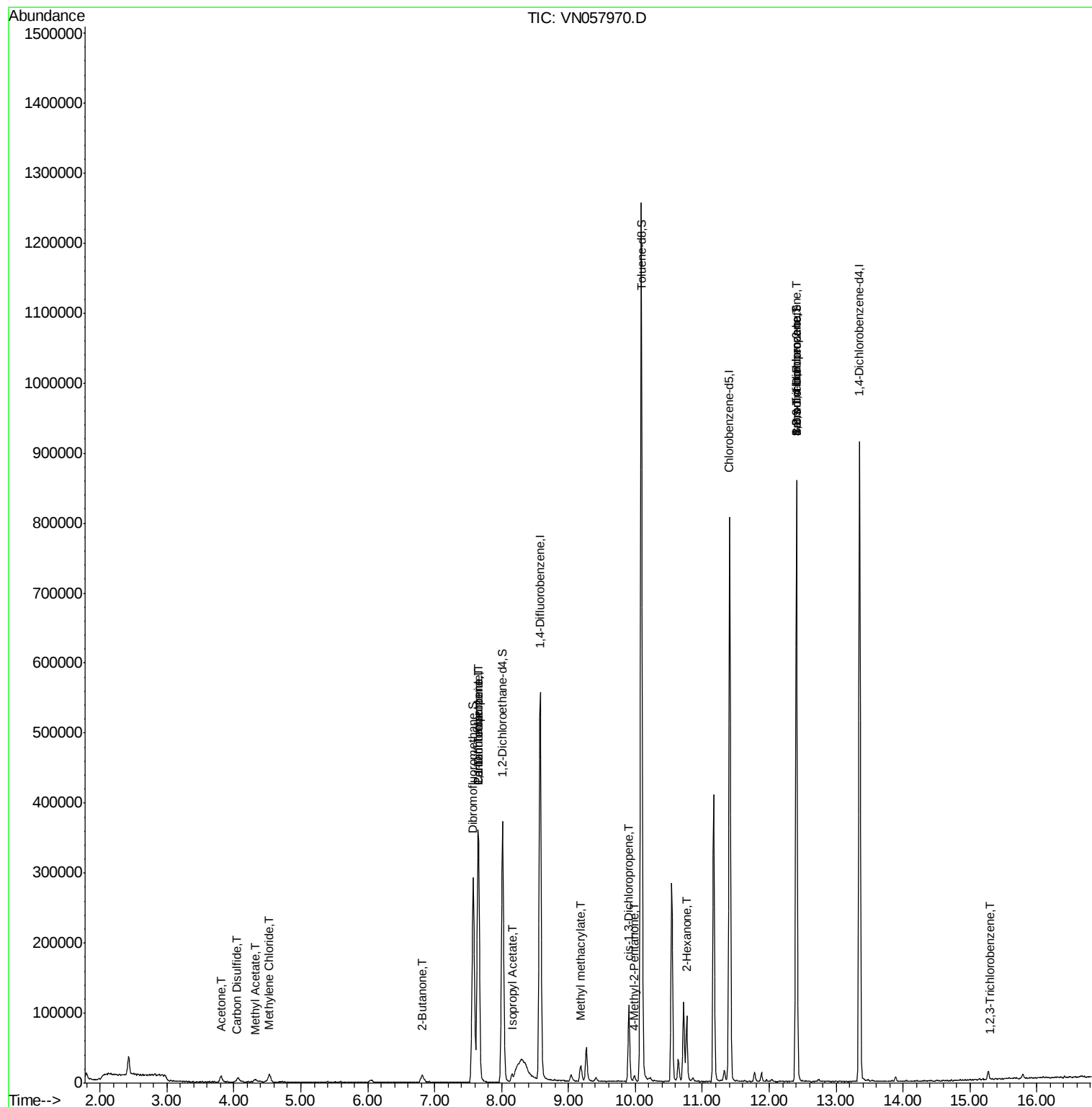
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	314	Below Cal	#	2
16) Acetone	3.81	43	14109	7.609	ug/l	97
17) Carbon Disulfide	4.04	76	212	0.204	ug/l #	75
18) Methyl Acetate	4.31	43	6177	1.249	ug/l #	64
20) Methylene Chloride	4.53	84	7587	0.941	ug/l	93
25) 2-Butanone	6.82	43	684	0.255	ug/l #	49
31) Cyclohexane	7.65	56	7634	Below Cal	#	43
36) 1,1-Dichloropropene	7.65	75	24853	4.478	ug/l #	50
38) Carbon Tetrachloride	7.65	117	28745	5.673	ug/l #	17
43) Isopropyl Acetate	8.16	43	12971	1.345	ug/l #	87
48) Methyl methacrylate	9.17	41	4644	0.949	ug/l #	25
51) 4-Methyl-2-Pentanone	9.98	43	5583	0.978	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	18022	2.642	ug/l #	74
59) 2-Hexanone	10.77	43	14723	3.442	ug/l #	62
71) Bromoform	12.40	173	947	0.381	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	159054	31.203	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	159054	109.805	ug/l #	6
95) Naphthalene	15.14	128	1065	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	29	1.004	ug/l #	12

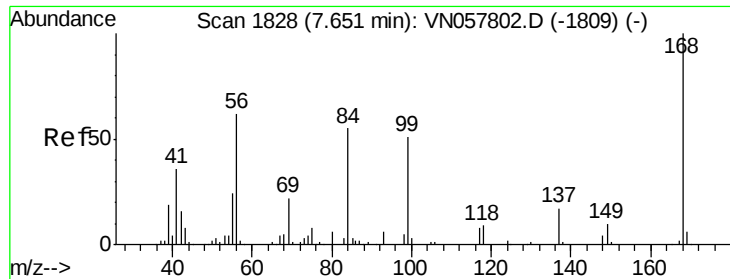
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

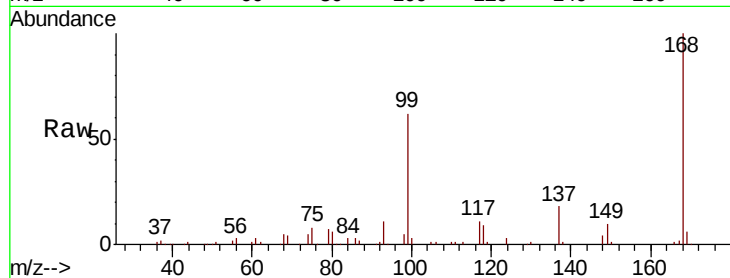
T11-E1-(0)

Tgt Ion: 168 Resp: 279284

Ion Ratio Lower Upper

168 100

99 61.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

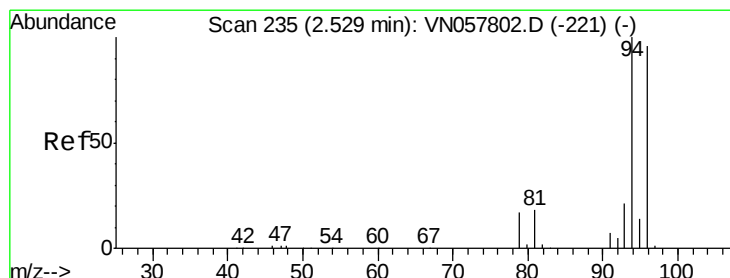
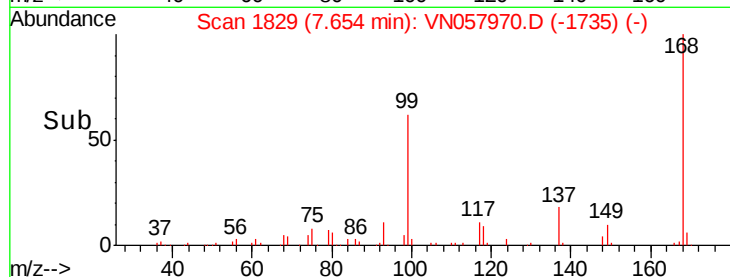
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN057970.D

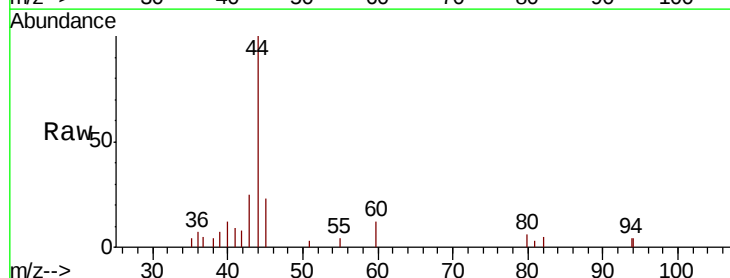
Acq: 12 Sep 2019 14:52

Tgt Ion: 94 Resp: 314

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

500

400

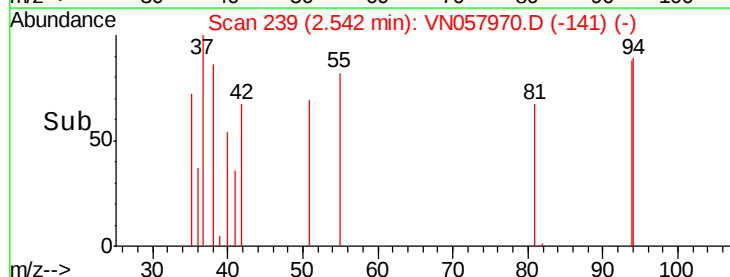
300

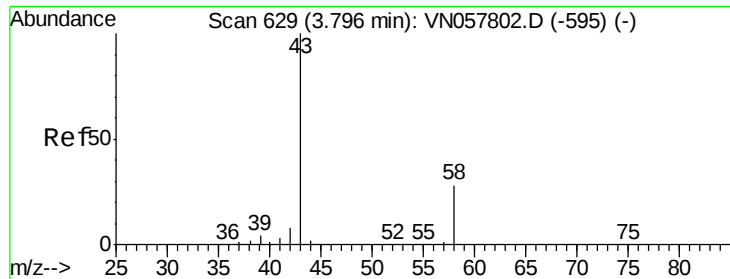
200

100

0

Time-->





#16

Acetone

Concen: 7.609 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

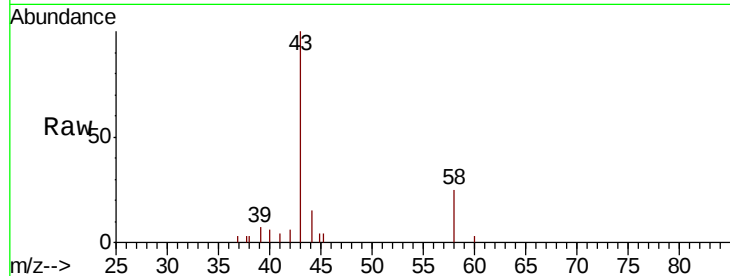
T11-E1-(0)

Tgt Ion: 43 Resp: 14109

Ion Ratio Lower Upper

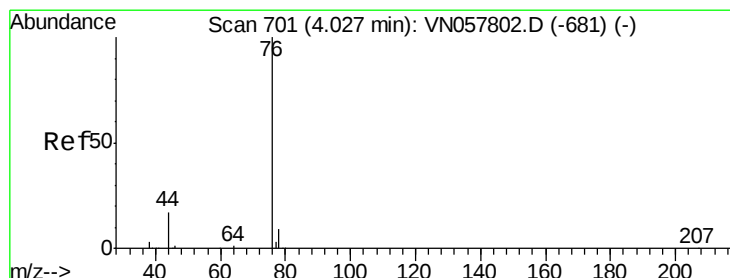
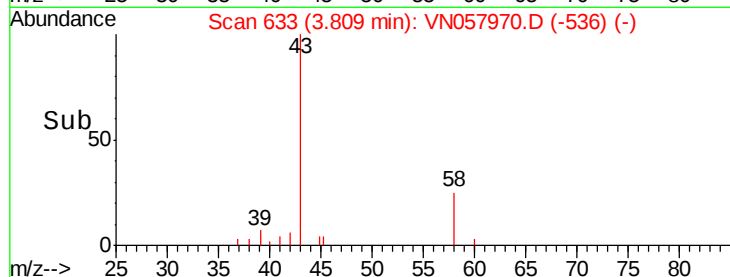
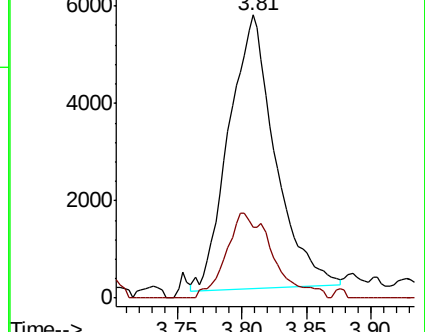
43 100

58 26.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057970.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN057970.D (-536) (-)



#17

Carbon Disulfide

Concen: 0.204 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN057970.D

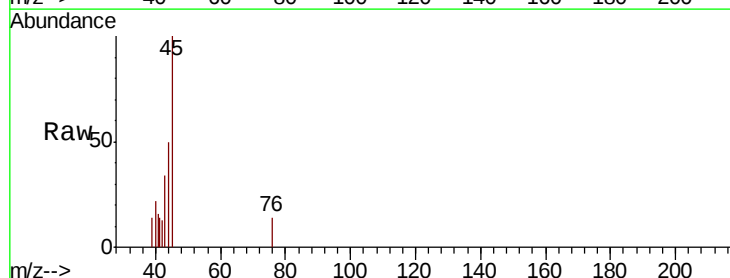
Acq: 12 Sep 2019 14:52

Tgt Ion: 76 Resp: 212

Ion Ratio Lower Upper

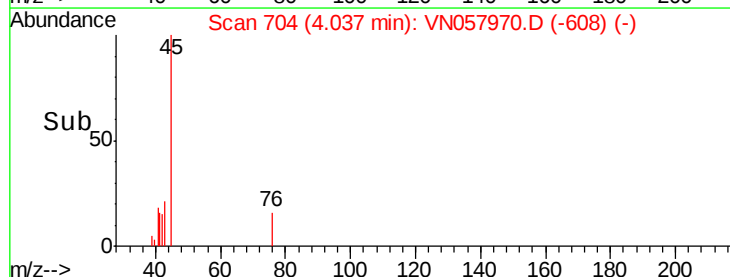
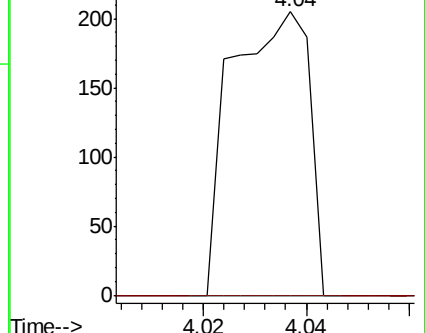
76 100

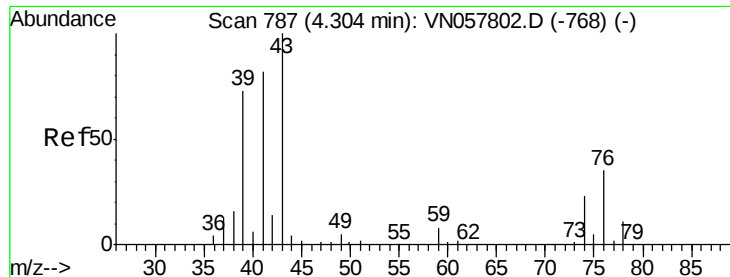
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN057970.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN057970.D (-608) (-)

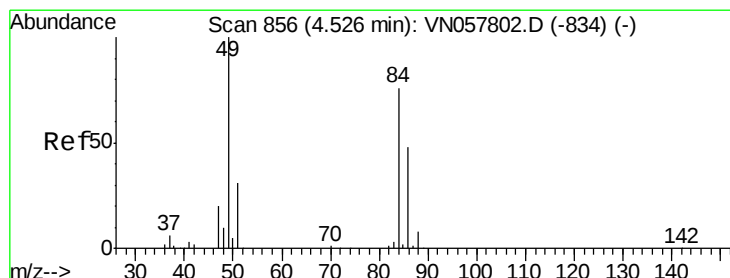
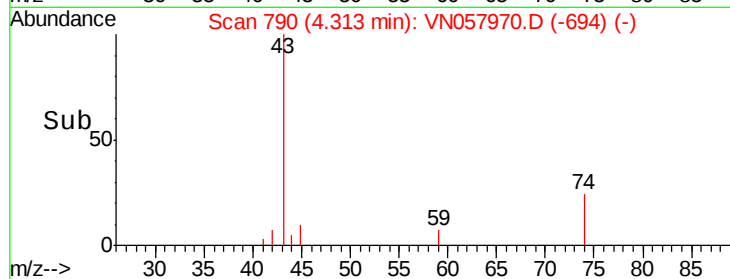
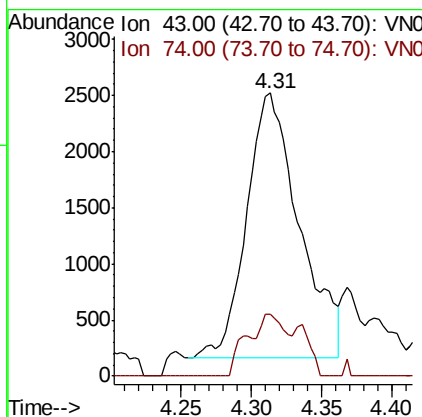
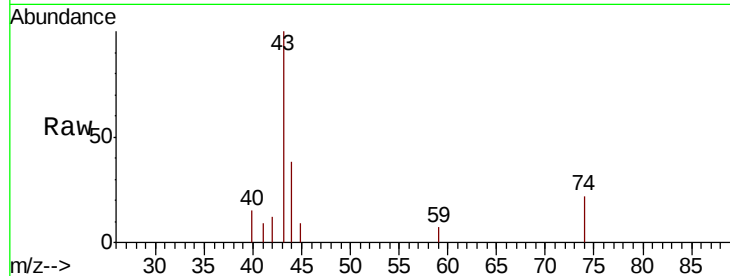




#18
Methyl Acetate
Concen: 1.249 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

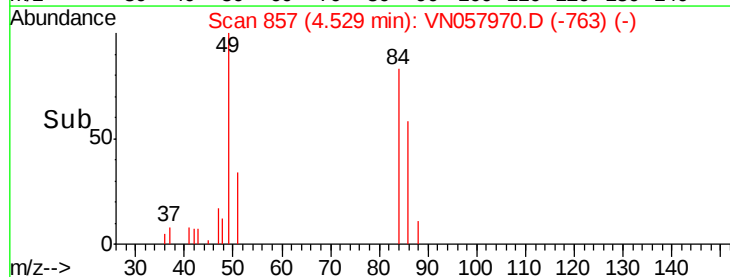
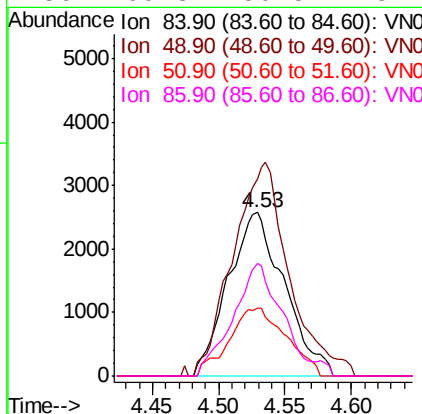
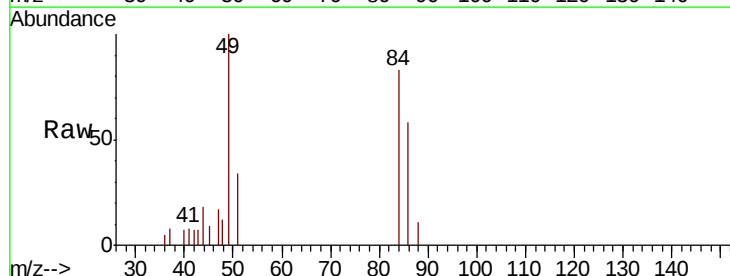
Instrument :
MSVOA_N
ClientSampleId :
T11-E1-(0)

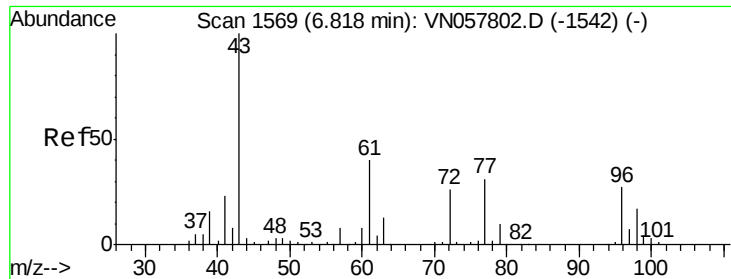
Tgt Ion: 43 Resp: 6177
Ion Ratio Lower Upper
43 100
74 5.2 17.9 26.9#



#20
Methylene Chloride
Concen: 0.941 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

Tgt Ion: 84 Resp: 7587
Ion Ratio Lower Upper
84 100
49 120.3 104.8 157.2
51 41.3 33.0 49.4
86 69.3 50.5 75.7





#25

2-Butanone

Concen: 0.255 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

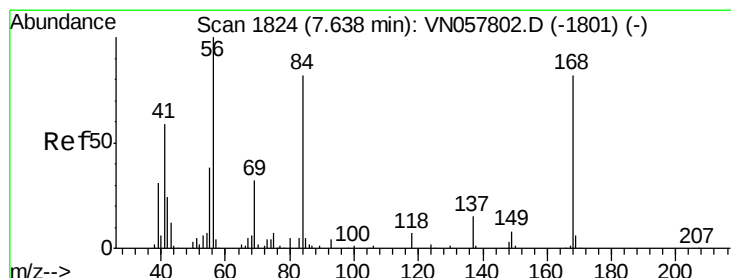
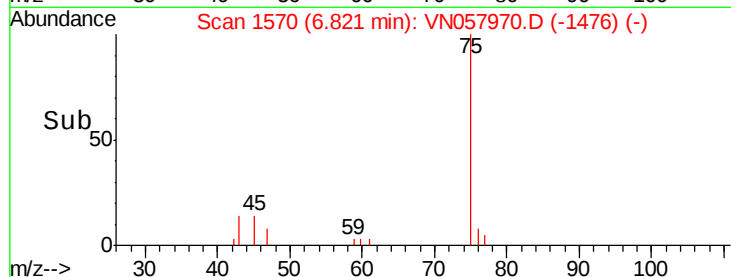
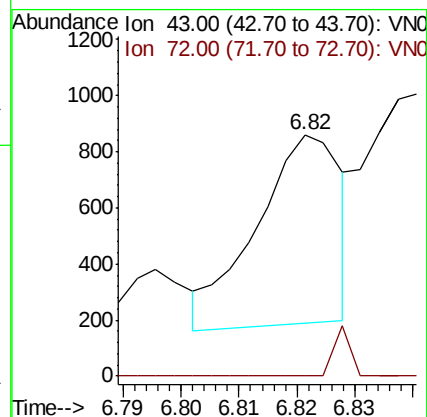
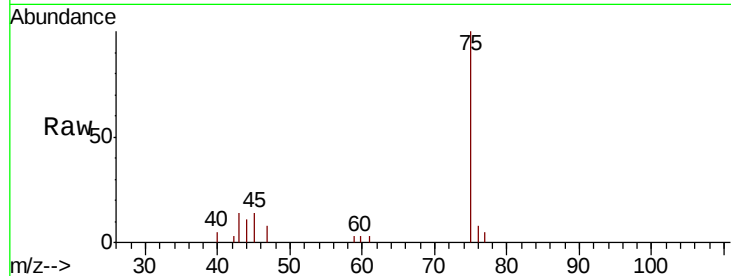
T11-E1-(0)

Tgt Ion: 43 Resp: 684

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

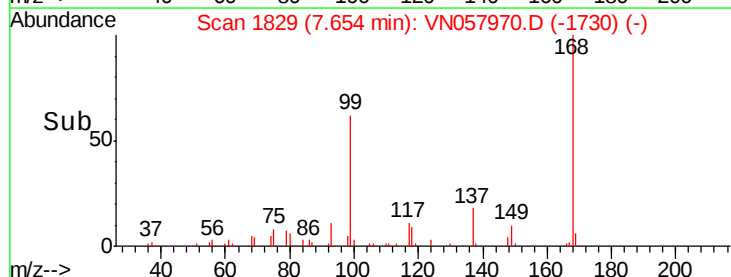
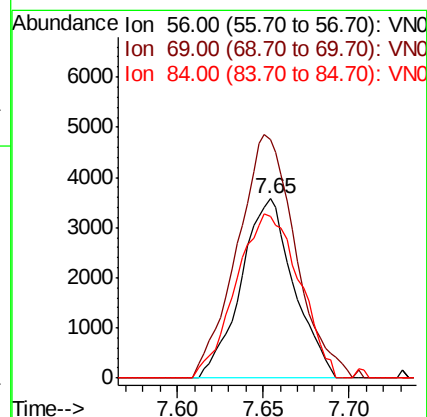
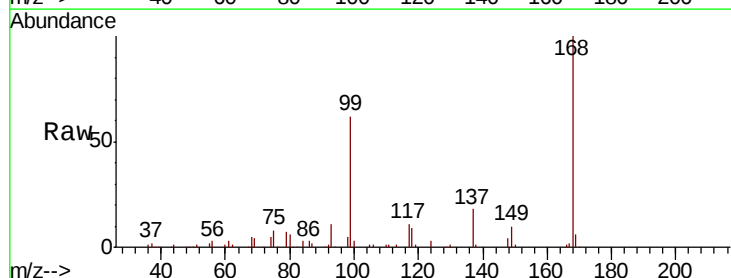
Tgt Ion: 56 Resp: 7634

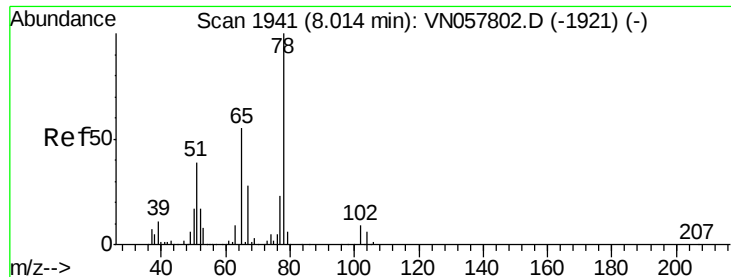
Ion Ratio Lower Upper

56 100

69 133.0 25.9 38.9#

84 90.3 65.6 98.4

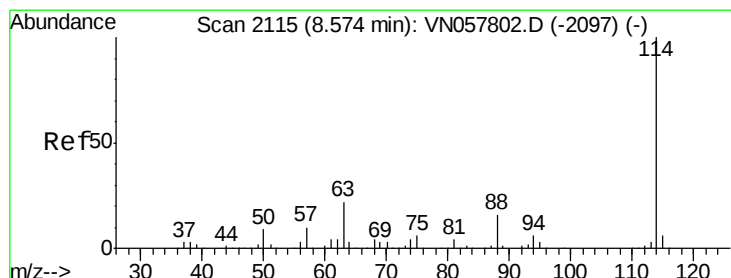
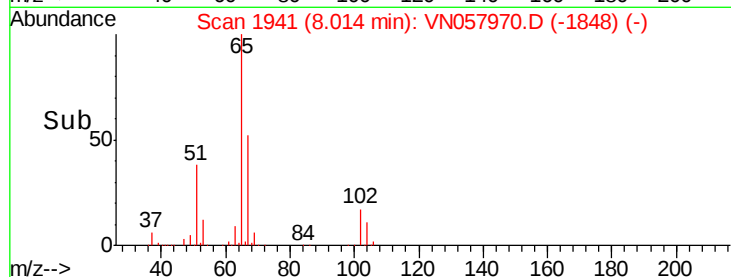
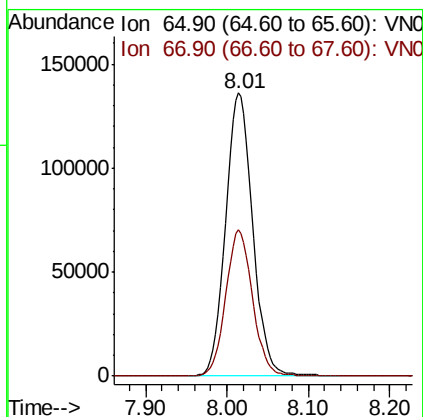
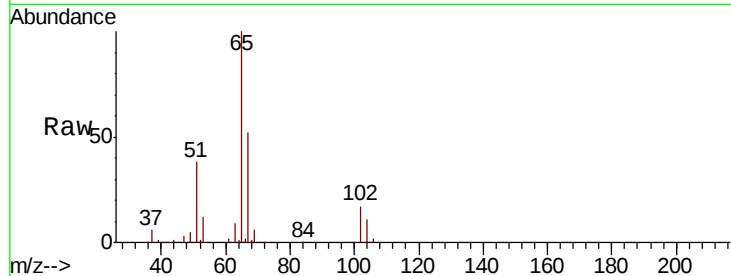




#33
 1,2-Dichloroethane-d4
 Concen: 56.387 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057970.D
 Acq: 12 Sep 2019 14:52

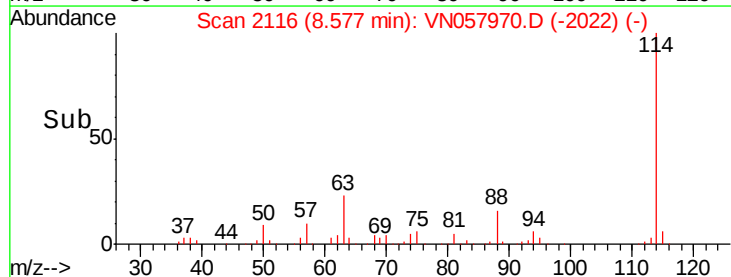
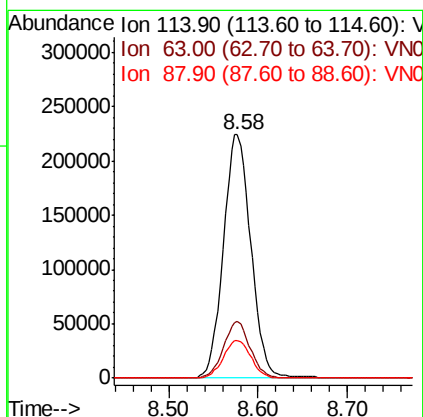
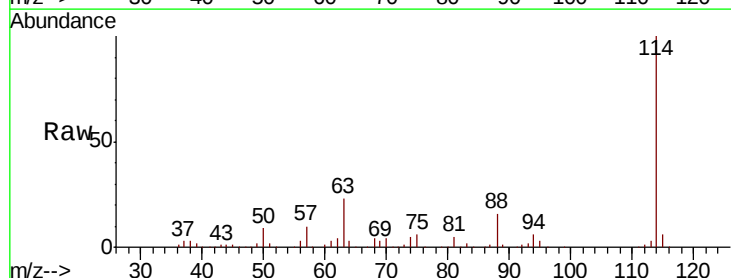
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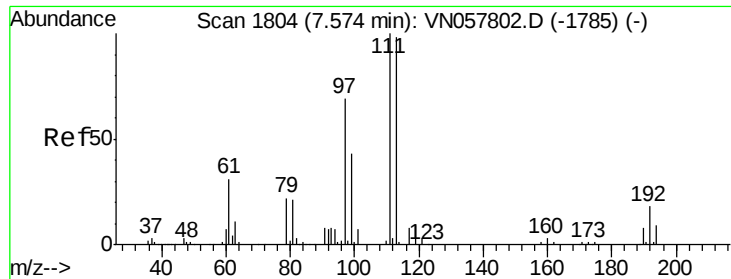
Tgt Ion: 65 Resp: 318965
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057970.D
 Acq: 12 Sep 2019 14:52

Tgt Ion: 114 Resp: 478533
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 44.0
 88 15.5 0.0 31.4

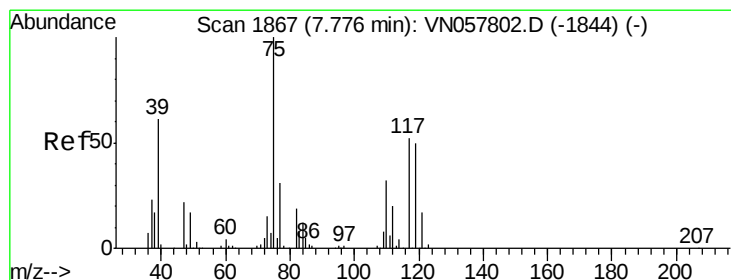
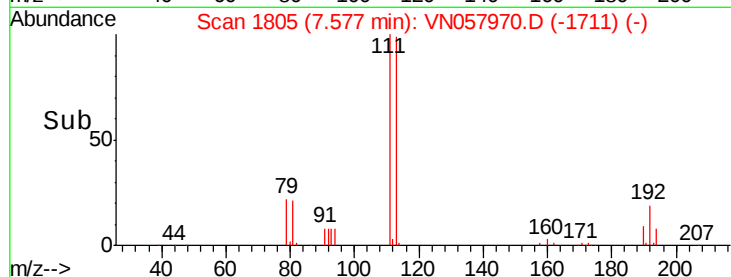
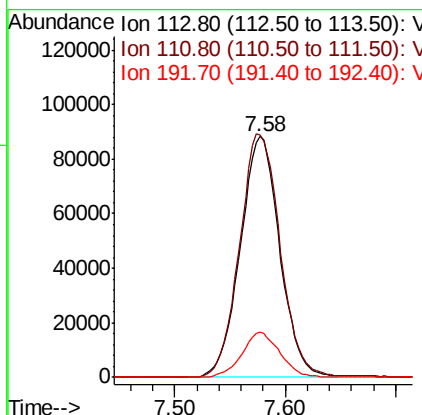
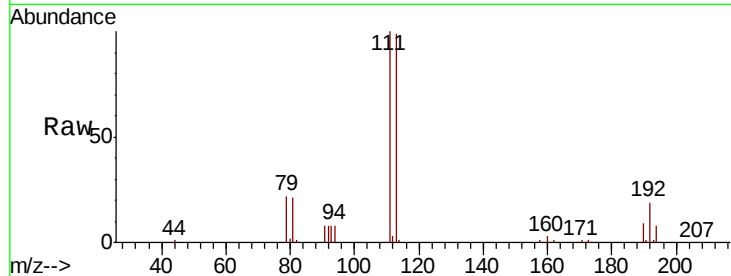




#35
 Dibromofluoromethane
 Concen: 49.599 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057970.D
 Acq: 12 Sep 2019 14:52

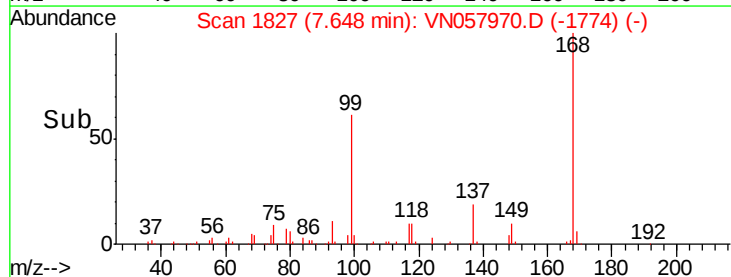
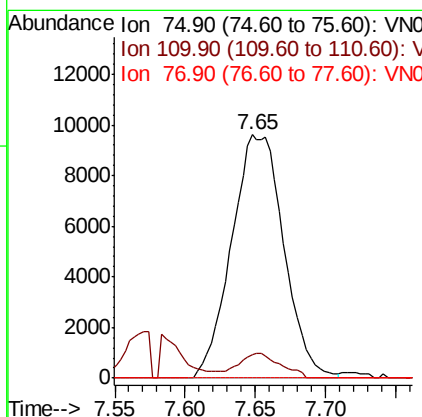
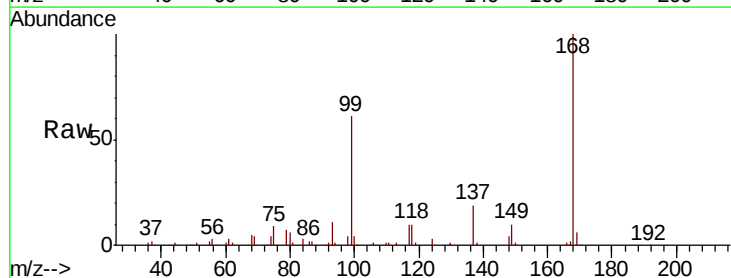
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E1-(0)

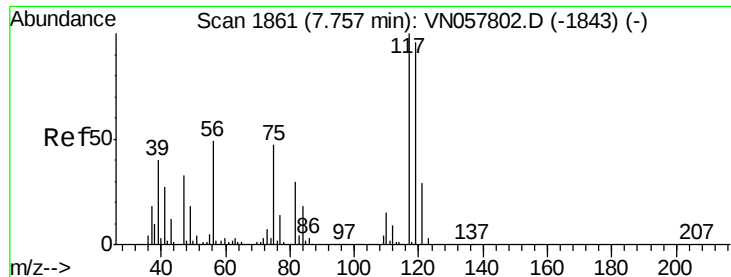
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	81.3	121.9
192	18.0	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.478 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057970.D
 Acq: 12 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.673 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(0)

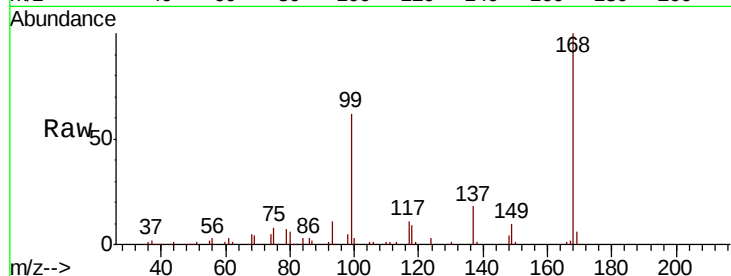
Tgt Ion:117 Resp: 28745

Ion Ratio Lower Upper

117 100

119 5.9 76.9 115.3#

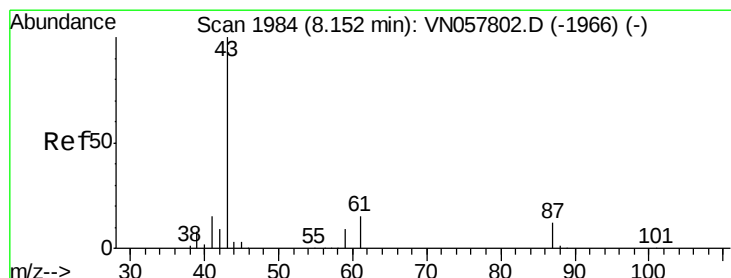
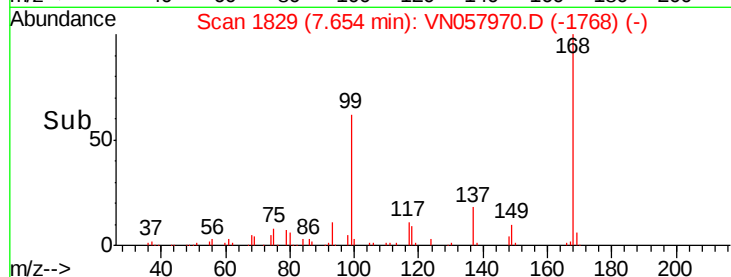
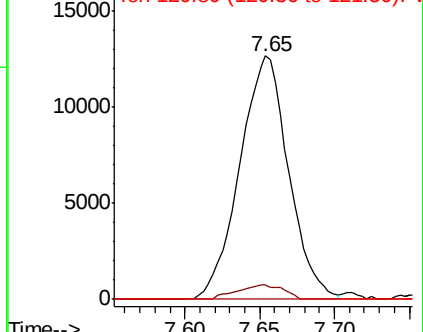
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.345 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

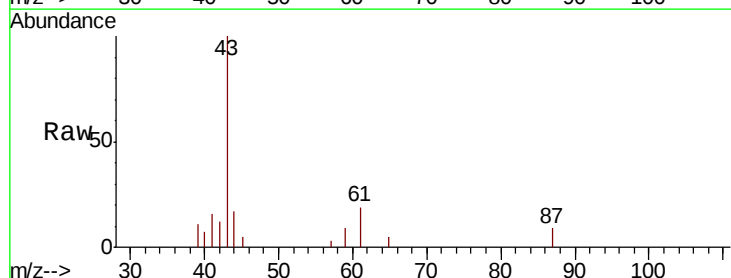
Tgt Ion: 43 Resp: 12971

Ion Ratio Lower Upper

43 100

61 19.8 20.1 30.1#

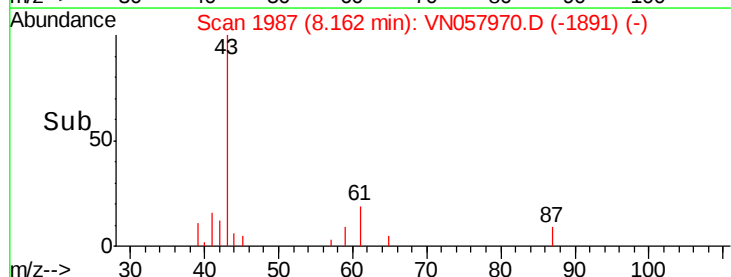
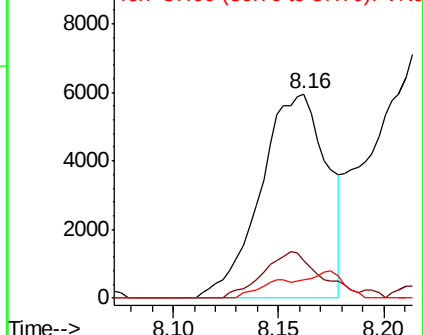
87 4.4 9.5 14.3#

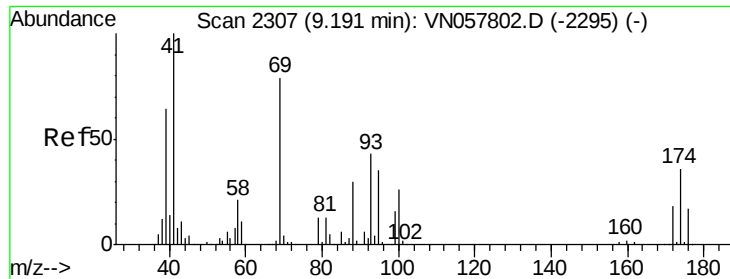


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

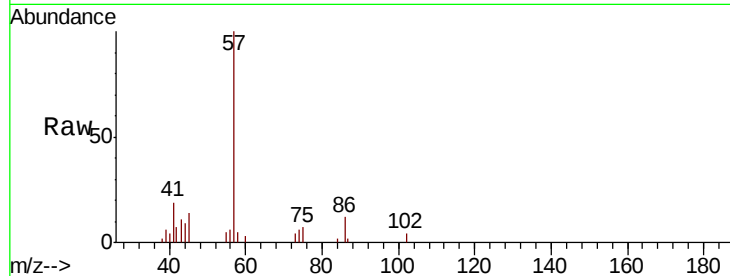




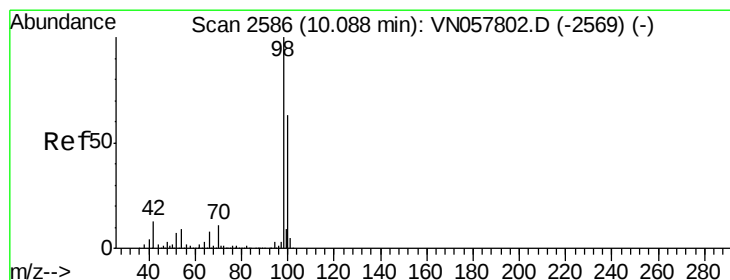
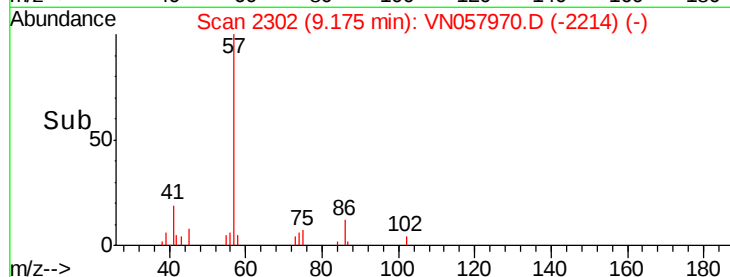
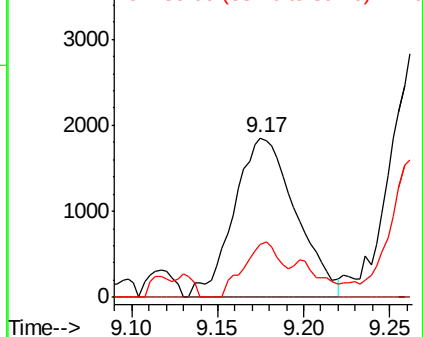
#48
Methyl methacrylate
Concen: 0.949 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
T11-E1-(0)

Tgt Ion: 41 Resp: 4644
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 21.0 52.7 79.1#

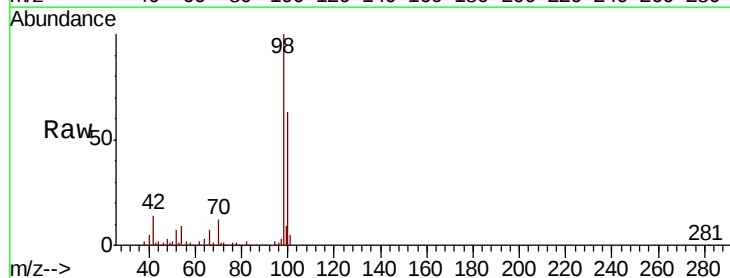


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

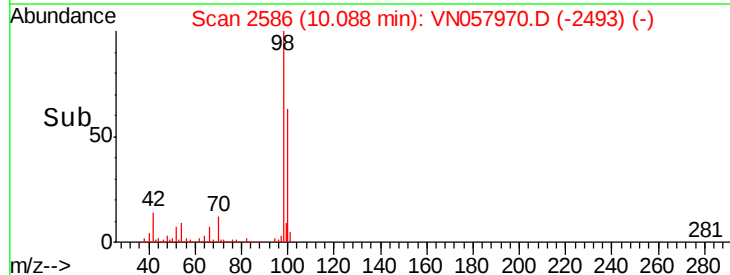
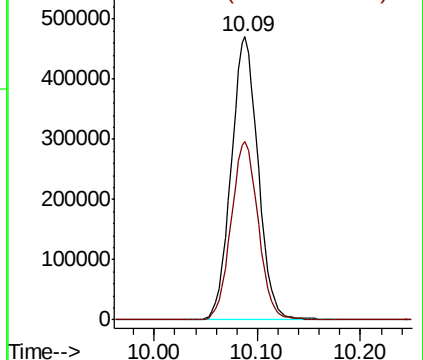


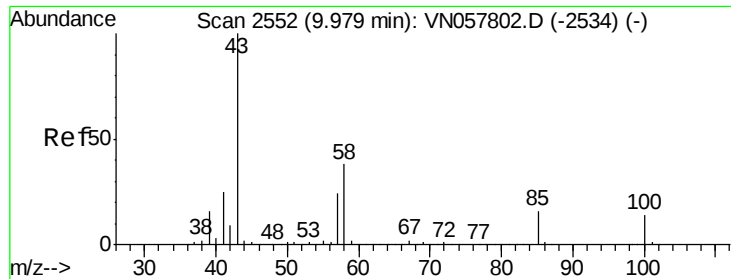
#50
Toluene-d8
Concen: 49.967 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

Tgt Ion: 98 Resp: 856829
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5



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

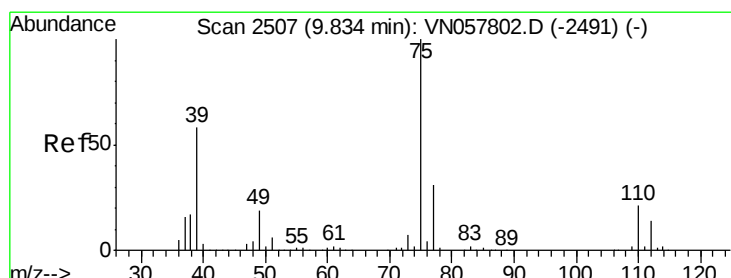
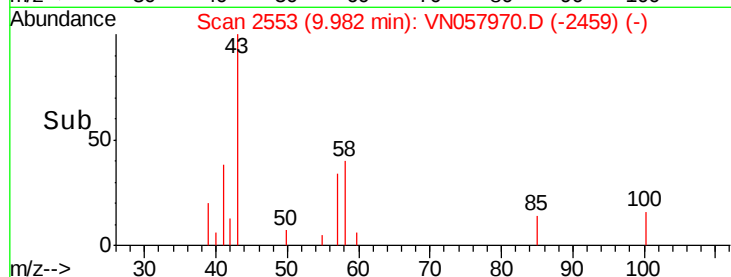
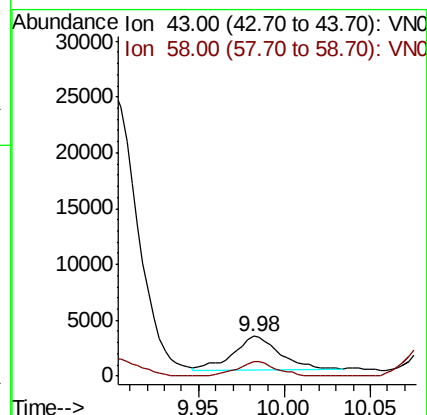
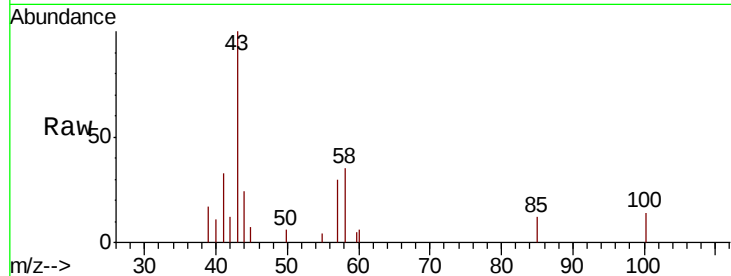




#51
4-Methyl-2-Pentanone
Concen: 0.978 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

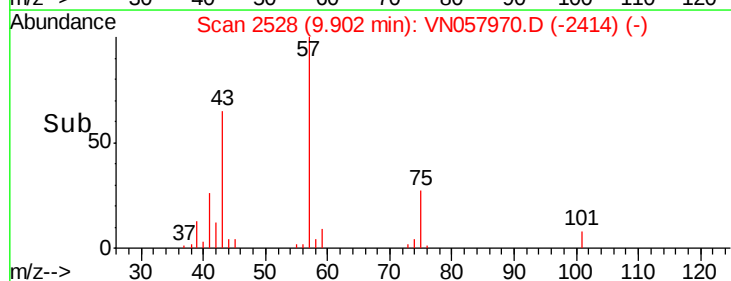
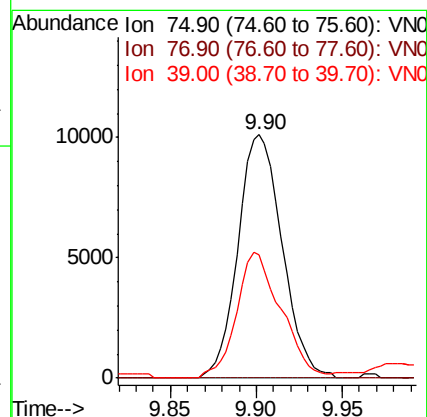
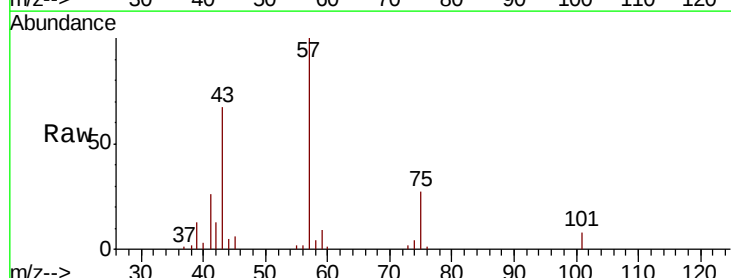
Instrument :
MSVOA_N
ClientSampleId :
T11-E1-(0)

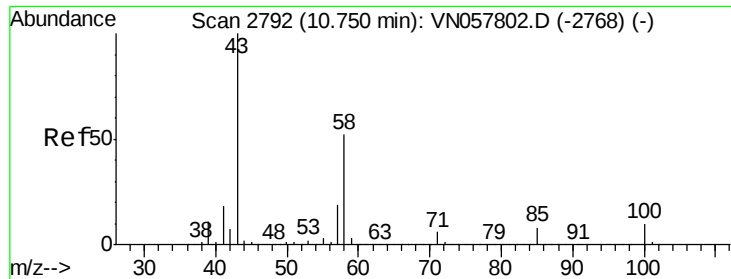
Tgt Ion: 43 Resp: 5583
Ion Ratio Lower Upper
43 100
58 36.9 29.8 44.6



#54
cis-1,3-Dichloropropene
Concen: 2.642 ug/l
RT: 9.90 min Scan# 2528
Delta R.T. 0.07 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

Tgt Ion: 75 Resp: 18022
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 50.4 46.2 69.4





#59

2-Hexanone

Concen: 3.442 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

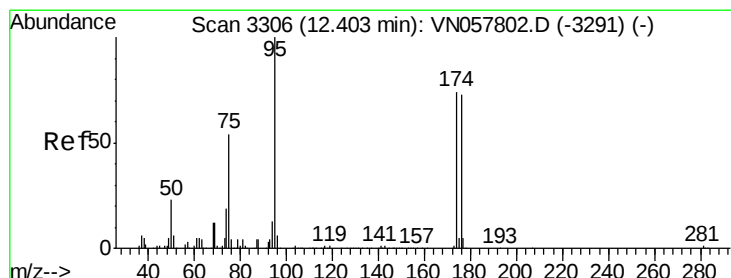
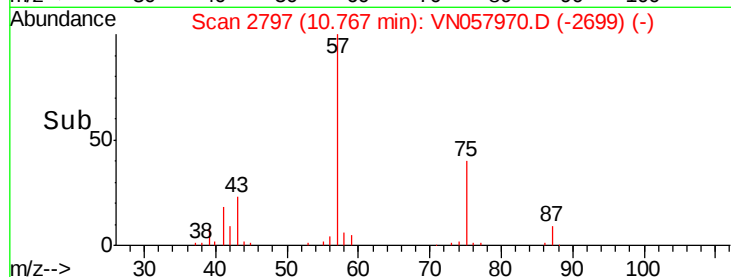
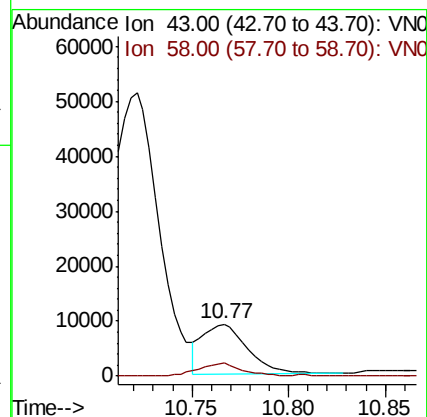
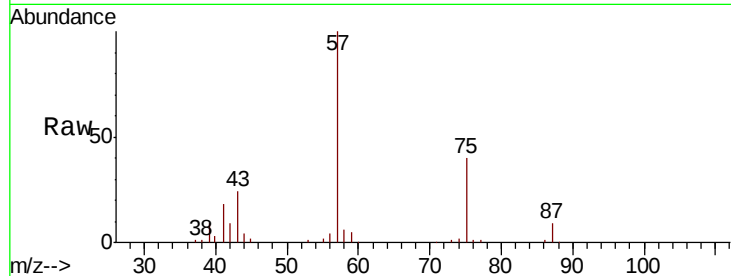
T11-E1-(0)

Tgt Ion: 43 Resp: 14723

Ion Ratio Lower Upper

43 100

58 24.9 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 44.255 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

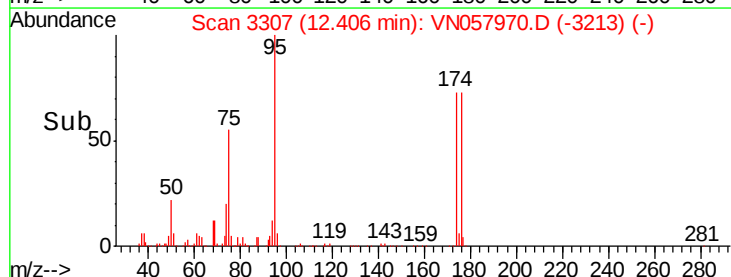
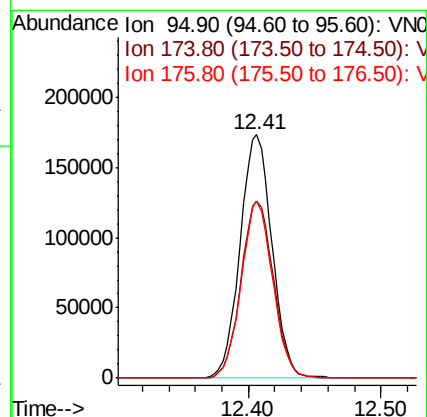
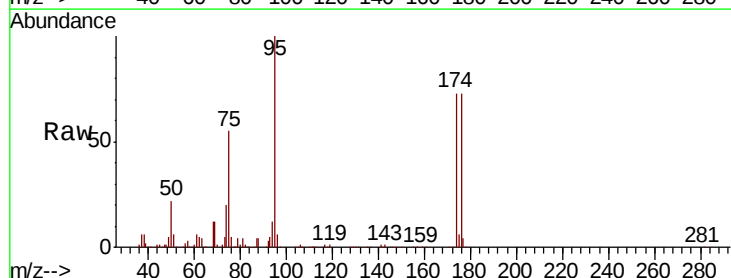
Tgt Ion: 95 Resp: 289202

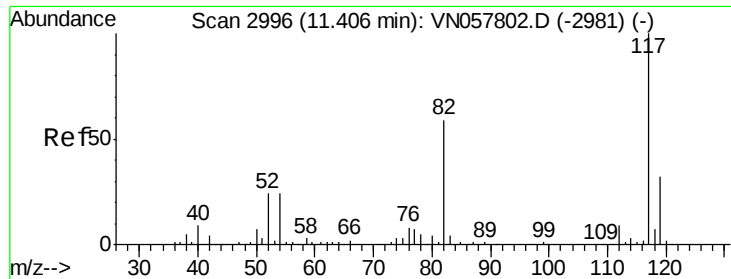
Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.2

176 71.9 0.0 146.0

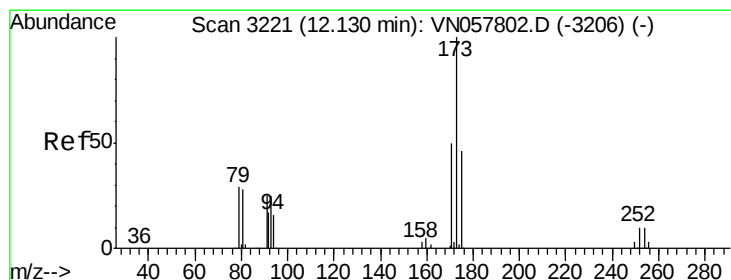
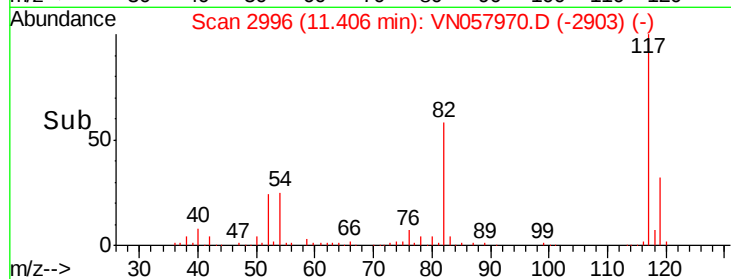
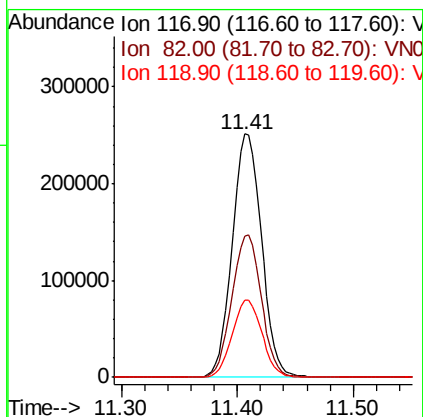
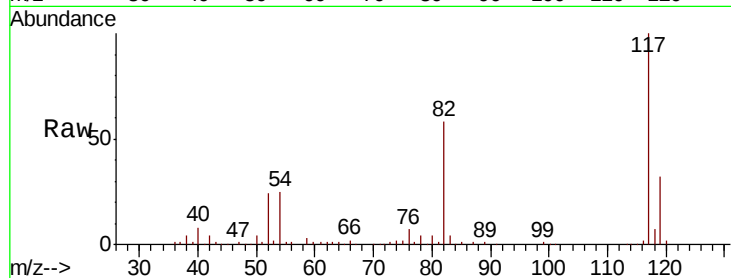




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

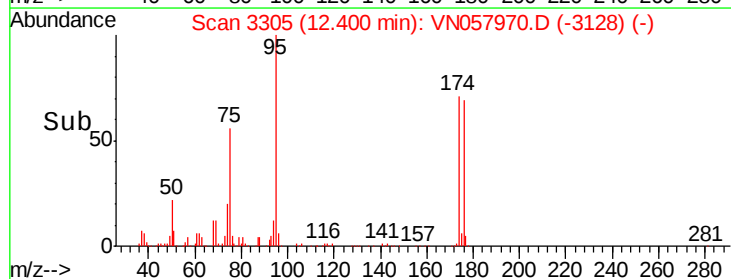
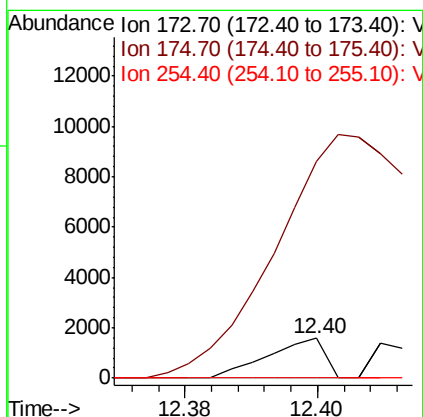
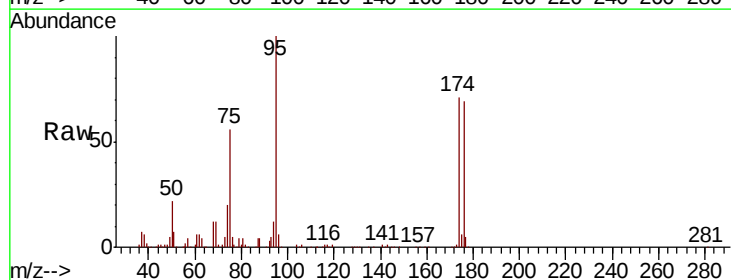
Instrument :
MSVOA_N
ClientSampleId :
T11-E1-(0)

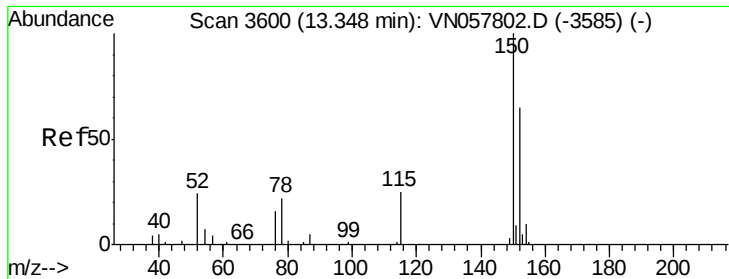
Tgt Ion:117 Resp: 439219
Ion Ratio Lower Upper
117 100
82 58.0 47.2 70.8
119 31.8 25.3 37.9



#71
Bromoform
Concen: 0.381 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057970.D
Acq: 12 Sep 2019 14:52

Tgt Ion:173 Resp: 947
Ion Ratio Lower Upper
173 100
175 1442.8 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: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(0)

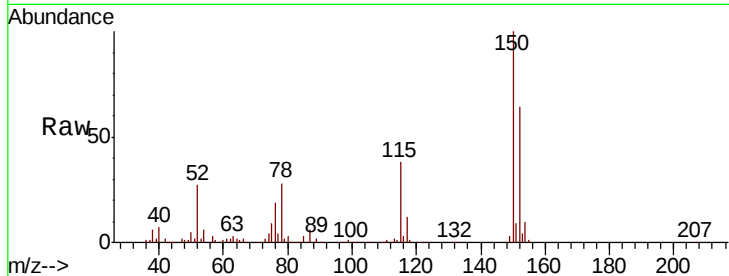
Tgt Ion: 152 Resp: 225330

Ion Ratio Lower Upper

152 100

115 60.6 30.3 91.0

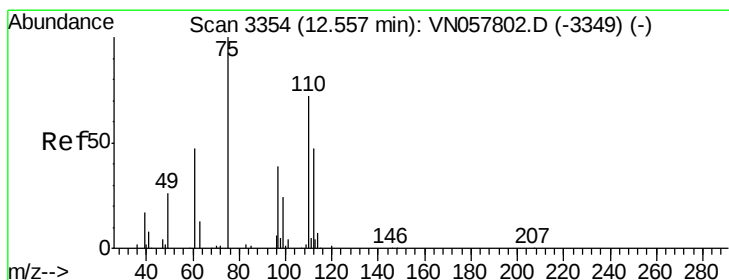
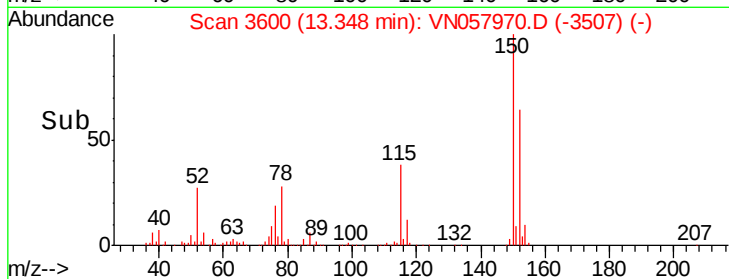
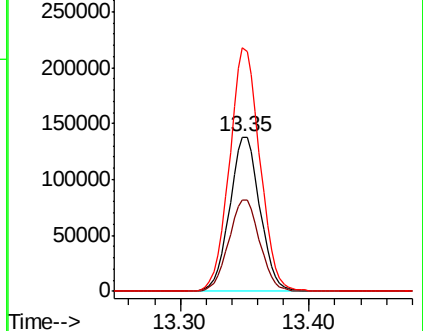
150 157.9 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 31.203 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057970.D

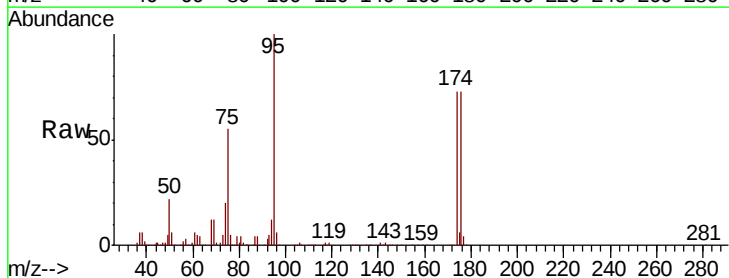
Acq: 12 Sep 2019 14:52

Tgt Ion: 75 Resp: 159054

Ion Ratio Lower Upper

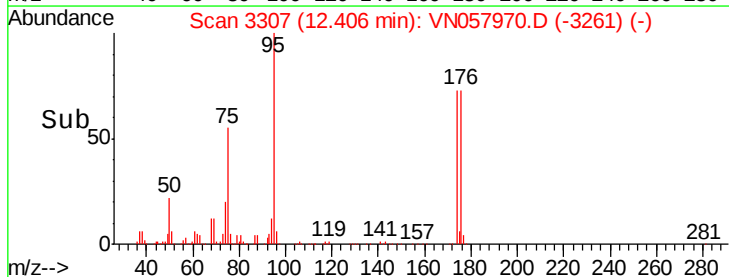
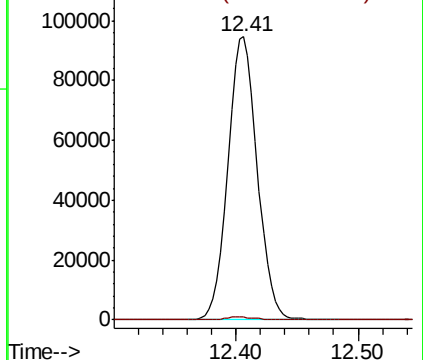
75 100

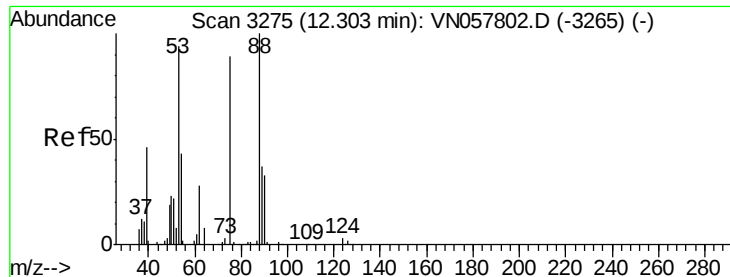
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.805 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(0)

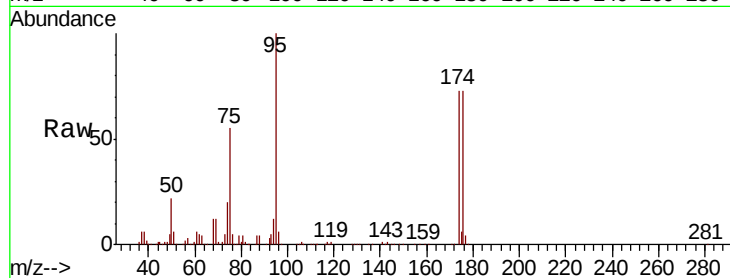
Tgt Ion: 75 Resp: 159054

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

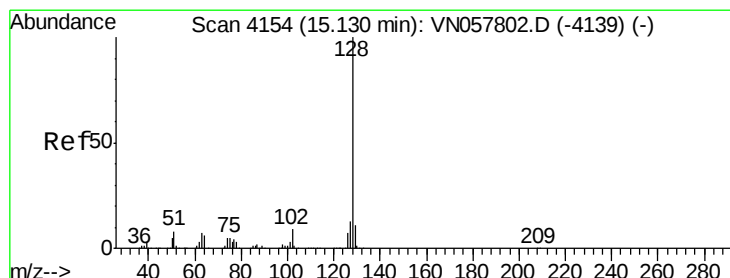
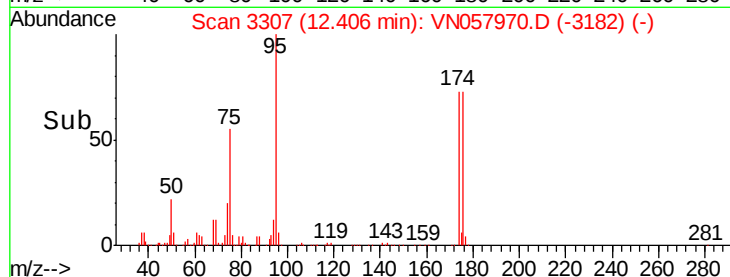
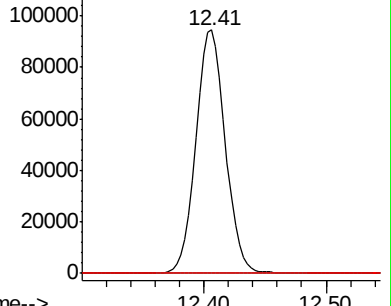
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057970.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN057970.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN057970.D (-3307) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN057970.D

Acq: 12 Sep 2019 14:52

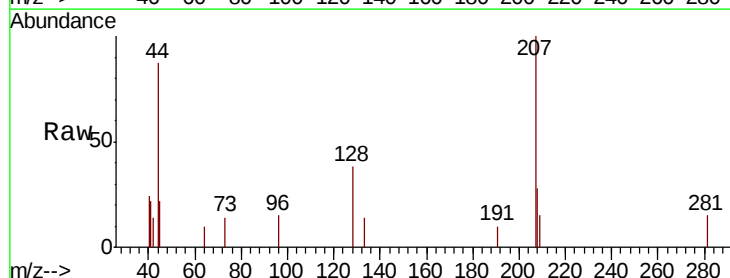
Tgt Ion: 128 Resp: 1065

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

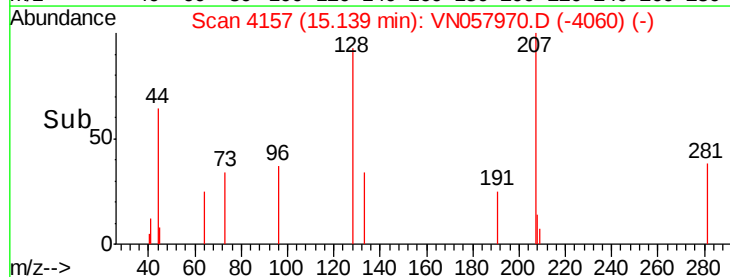
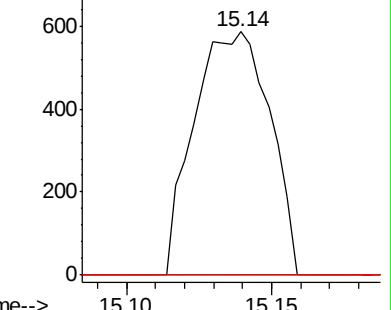
129 0.0 8.6 12.8#

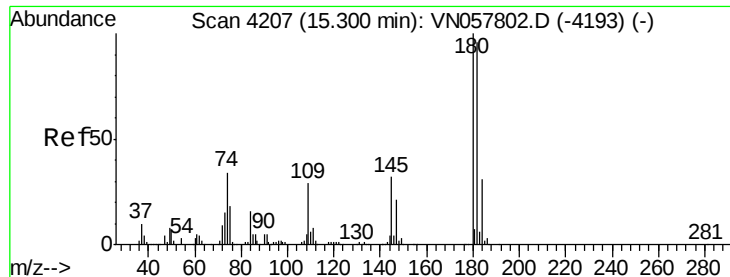


Abundance Ion 128.00 (127.70 to 128.70): VN057970.D (-4157) (-)

Ion 127.00 (126.70 to 127.70): VN057970.D (-4157) (-)

Ion 129.00 (128.70 to 129.70): VN057970.D (-4157) (-)

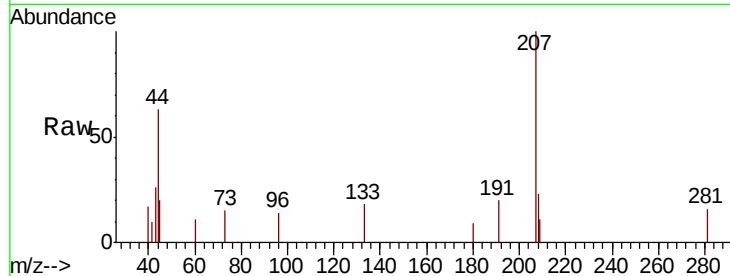




#96
 1,2,3-Trichlorobenzene
 Concen: 1.004 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN057970.D
 Acq: 12 Sep 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E1-(0)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.8#
145	0.0	16.3	48.8#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

