

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058057.D
 Acq On : 14 Sep 2019 7:28
 Operator : JC/SP
 Sample : K4825-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 01:56:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	334780	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	580706	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	537757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278163	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	386600	57.01	ug/l	0.00
Spiked Amount			Recovery	=	114.02%	
35) Dibromofluoromethane	7.58	113	260832	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.08	98	1052204	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	12.40	95	350306	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	

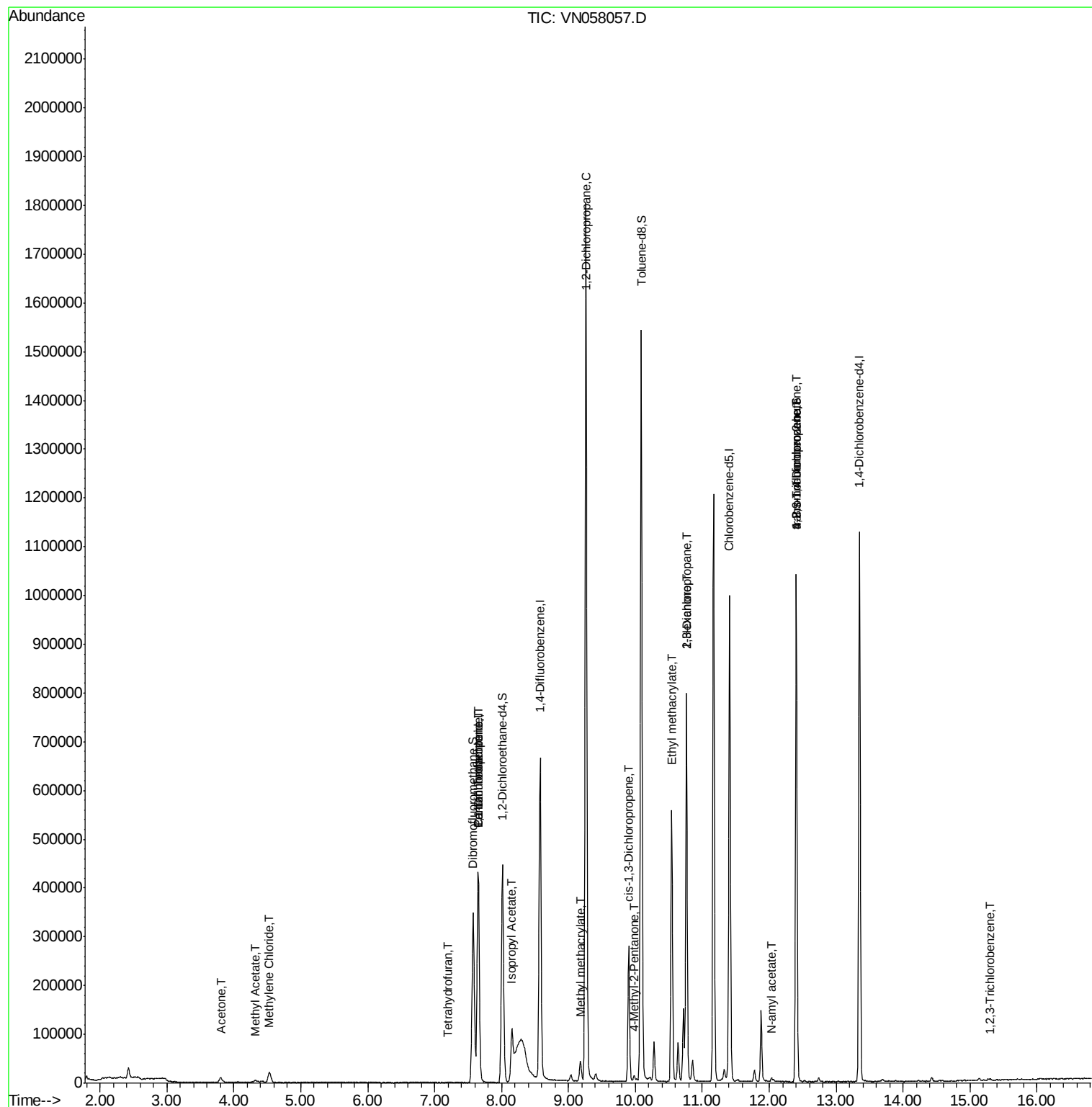
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	62	Below Cal		94
16) Acetone	3.80	43	16834	7.573	ug/l	98
18) Methyl Acetate	4.31	43	4224	0.713	ug/l #	89
20) Methylene Chloride	4.53	84	15852	2.579	ug/l	86
29) Tetrahydrofuran	7.20	42	699	0.353	ug/l #	42
31) Cyclohexane	7.65	56	8480	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	28767	4.271	ug/l #	47
38) Carbon Tetrachloride	7.65	117	34560	5.621	ug/l #	16
43) Isopropyl Acetate	8.15	43	149342	12.763	ug/l #	82
45) 1,2-Dichloropropane	9.26	63	2266	0.384	ug/l #	44
48) Methyl methacrylate	9.18	41	7547	1.271	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6397	0.924	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	46007	5.558	ug/l #	68
56) Ethyl methacrylate	10.54	69	1864	0.229	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7910	0.848	ug/l #	43
59) 2-Hexanone	10.76	43	119464	23.017	ug/l #	53
74) N-amyl acetate	12.03	43	7366	0.784	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	192075	30.524	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	192075	107.416	ug/l #	6
95) Naphthalene	15.13	128	3823	Below Cal	#	90
96) 1,2,3-Trichlorobenzene	15.30	180	625	1.107	ug/l	85

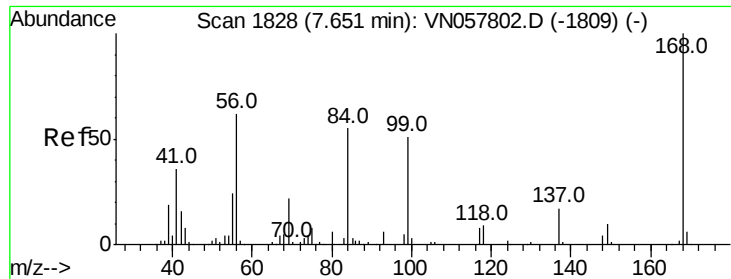
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091419\
Data File : VN058057.D
Acq On : 14 Sep 2019 7:28
Operator : JC/SP
Sample : K4825-15
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 60 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 16 01:56:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
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# 1828

Delta R.T. 0.00 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

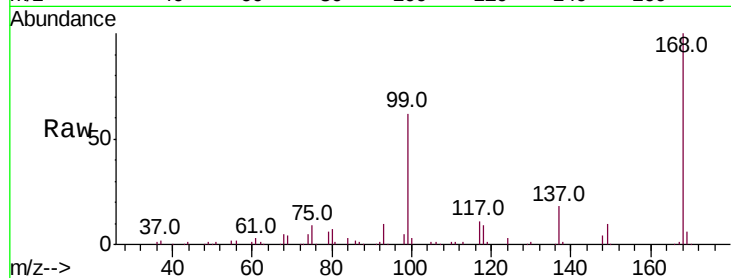
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 334780

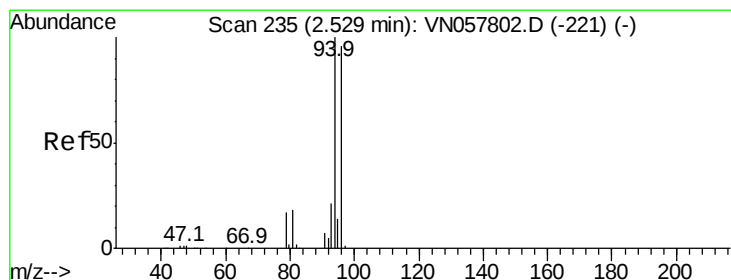
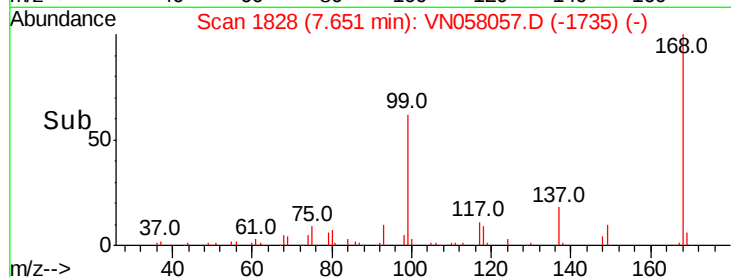
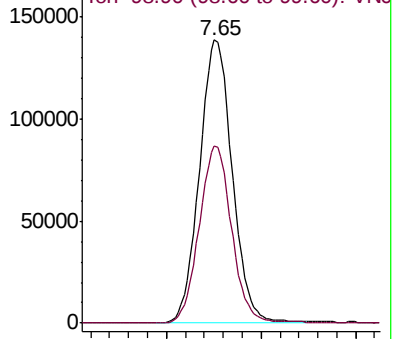
Ion Ratio Lower Upper

168 100

99 62.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN058057.D (-1735) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. 0.00 min

Lab File: VN058057.D

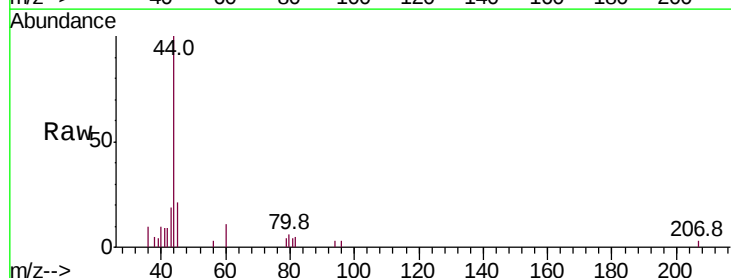
Acq: 14 Sep 2019 7:28

Tgt Ion: 94 Resp: 62

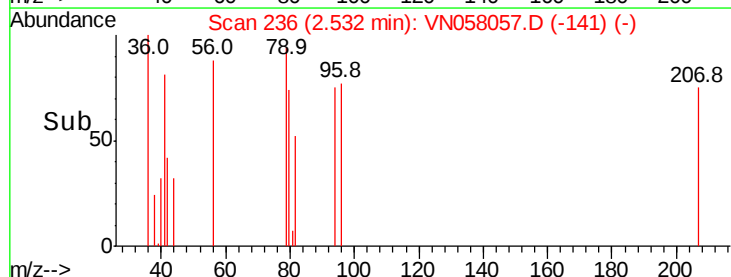
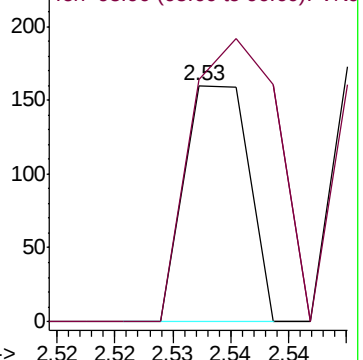
Ion Ratio Lower Upper

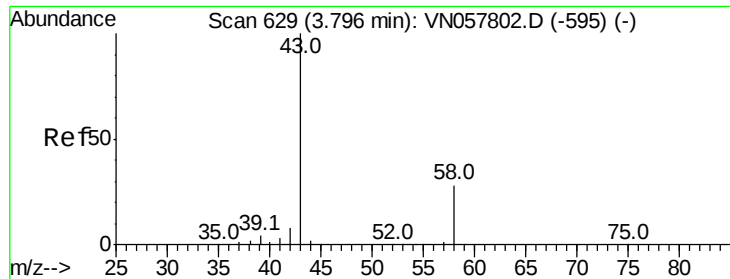
94 100

96 102.5 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN058057.D (-141) (-)





#16

Acetone

Concen: 7.573 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

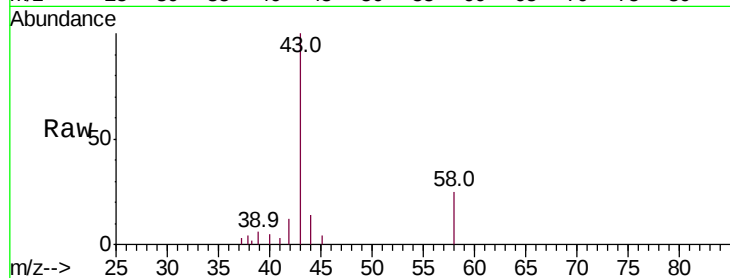
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 16834

Ion Ratio Lower Upper

43 100

58 26.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058057.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN058057.D (-536) (-)

3.80

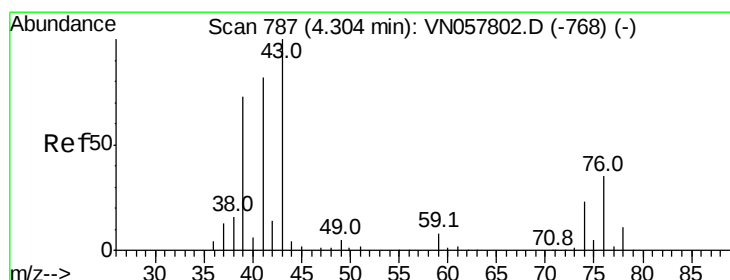
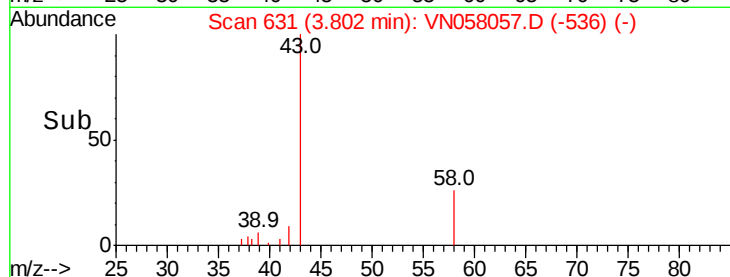
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 0.713 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058057.D

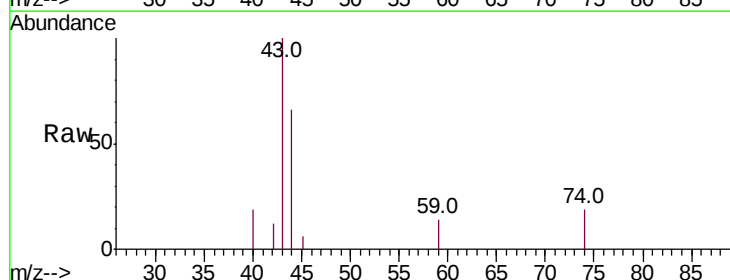
Acq: 14 Sep 2019 7:28

Tgt Ion: 43 Resp: 4224

Ion Ratio Lower Upper

43 100

74 17.0 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058057.D (-694) (-)

Ion 74.00 (73.70 to 74.70): VN058057.D (-694) (-)

4.31

3000

2500

2000

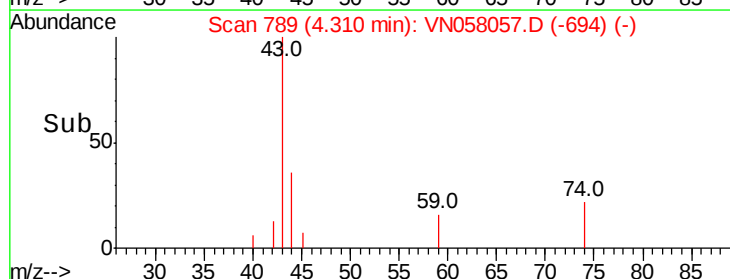
1500

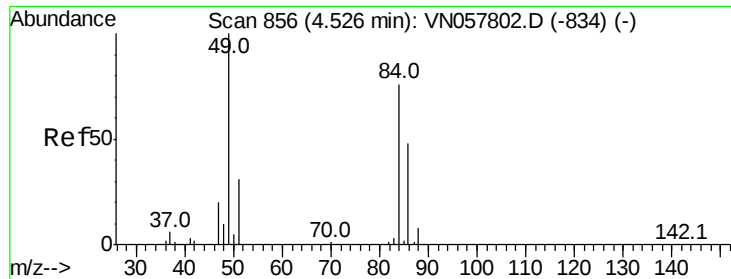
1000

500

0

Time-->

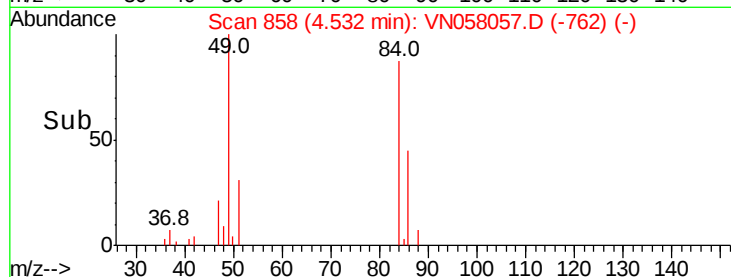
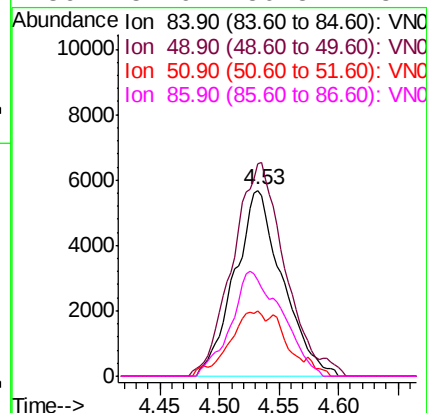
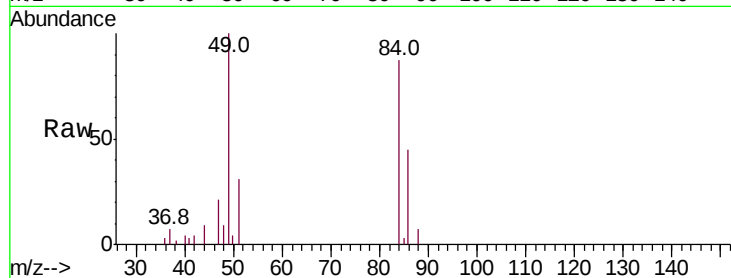




#20
Methvlene Chloride
Concen: 2.579 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

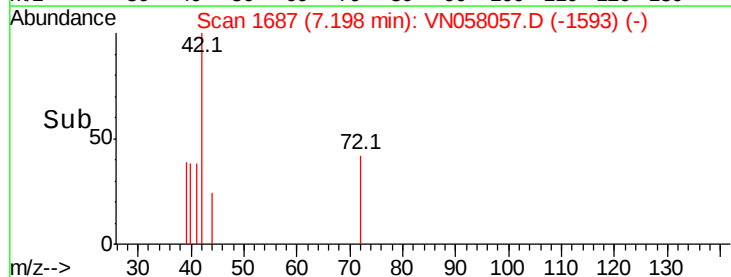
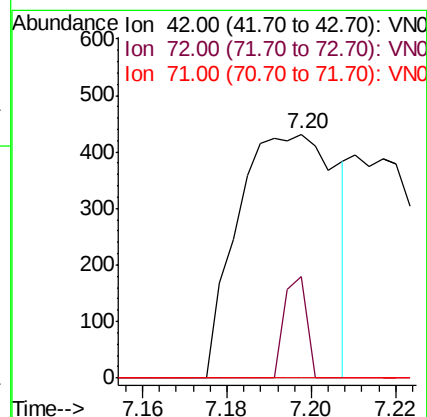
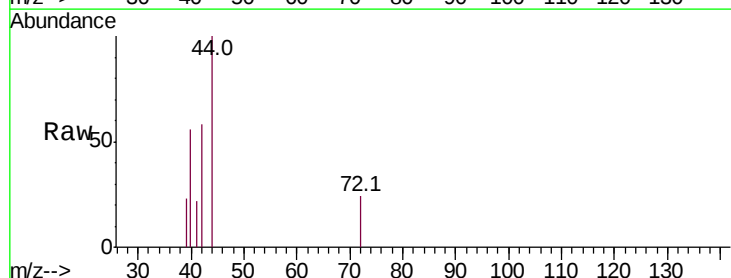
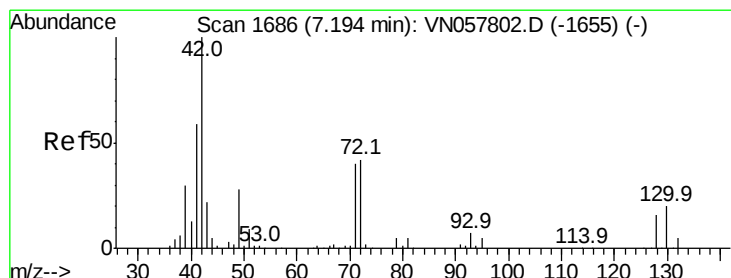
Instrument :
MSVOA_N
ClientSampleId :

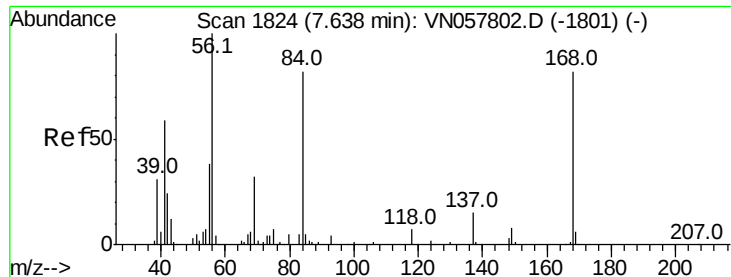
Tot Ion: 84 Resp: 15852
Ion Ratio Lower Upper
84 100
49 112.1 104.8 157.2
51 35.4 33.0 49.4
86 51.9 50.5 75.7



#29
Tetrahydrofuran
Concen: 0.353 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

Tgt Ion: 42 Resp: 699
Ion Ratio Lower Upper
42 100
72 9.3 33.7 50.5#
71 0.0 31.9 47.9#

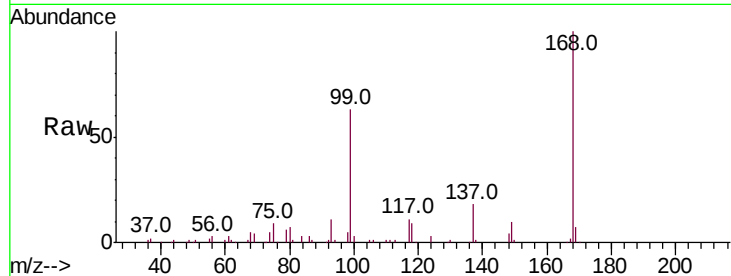




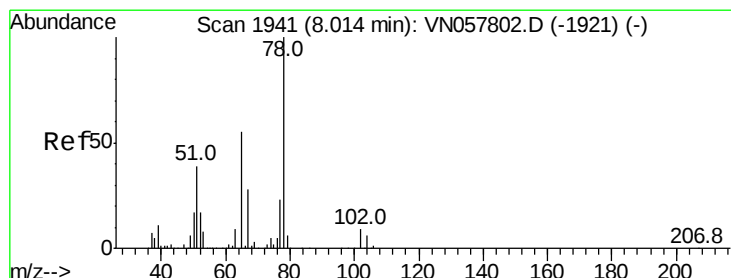
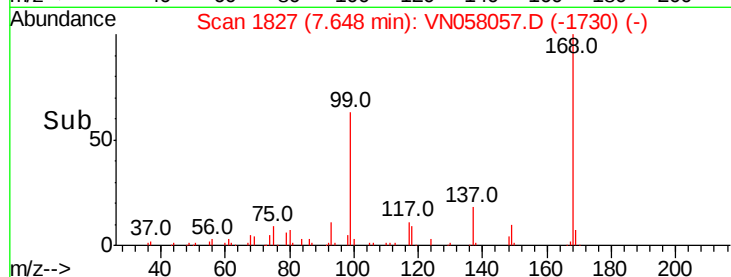
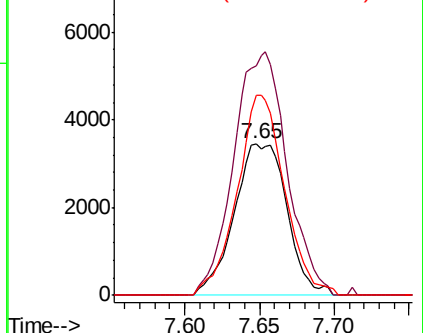
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 8480
Ion Ratio Lower Upper
56 100
69 150.6 25.9 38.9#
84 131.4 65.6 98.4#

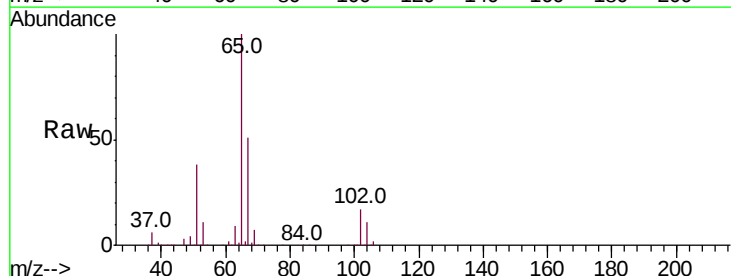


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

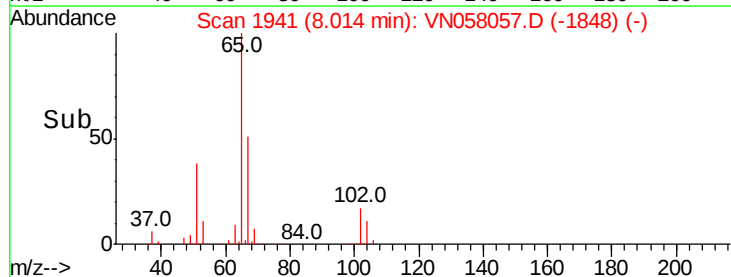
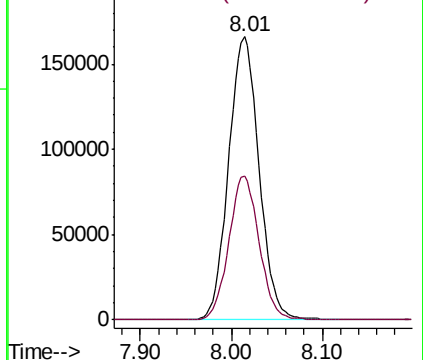


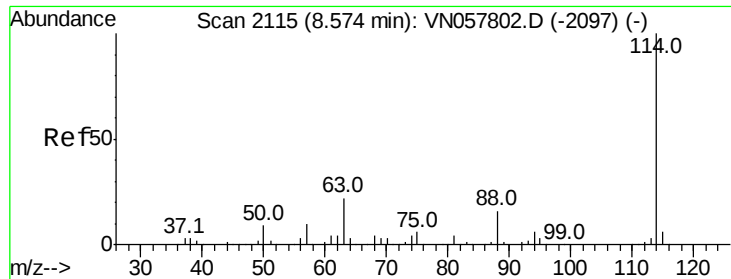
#33
1,2-Dichloroethane-d4
Concen: 57.015 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

Tgt Ion: 65 Resp: 386600
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

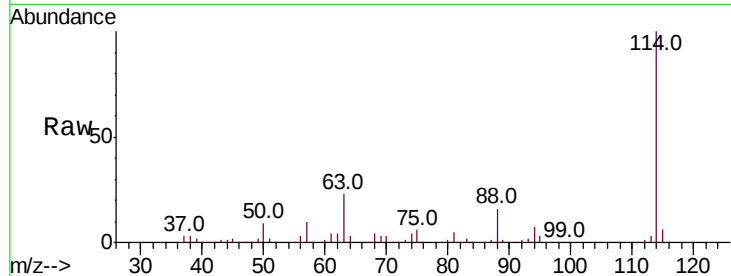




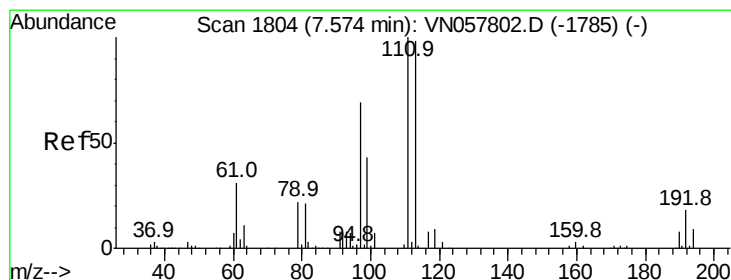
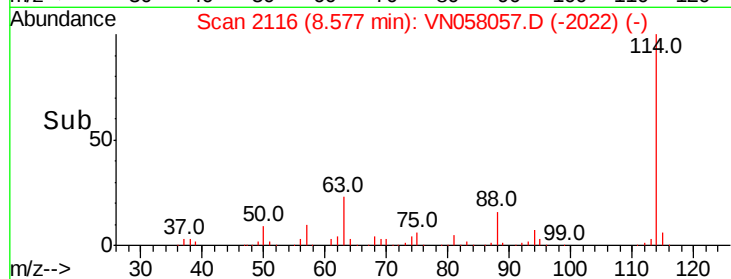
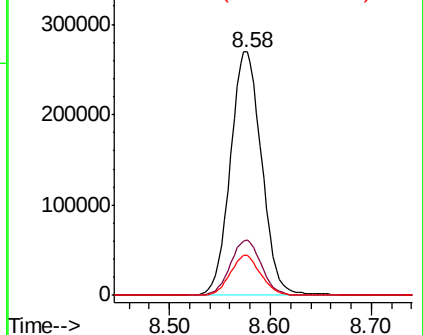
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058057.D
 Acq: 14 Sep 2019 7:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	44.0
88	16.4	0.0	31.4

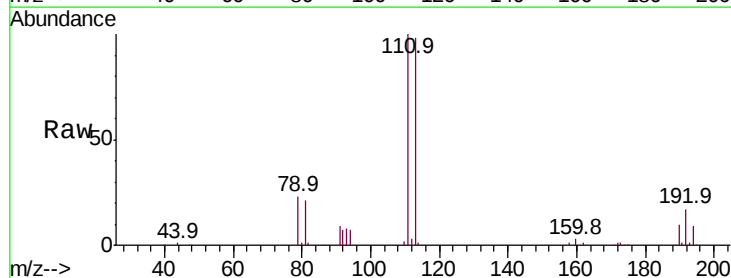


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

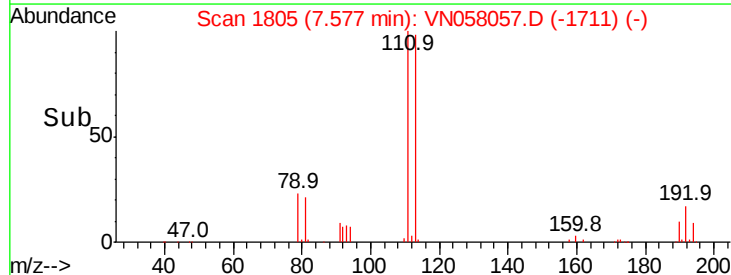
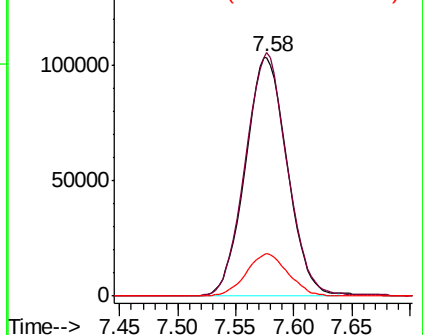


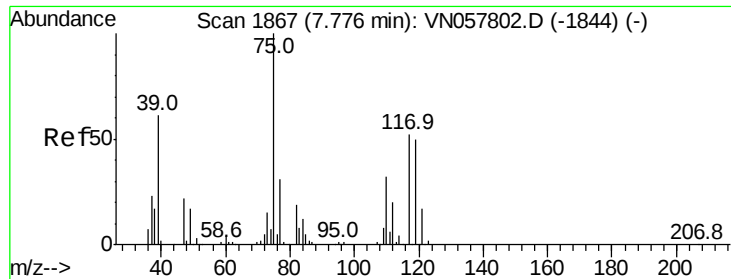
#35
 Dibromofluoromethane
 Concen: 48.666 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058057.D
 Acq: 14 Sep 2019 7:28

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



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

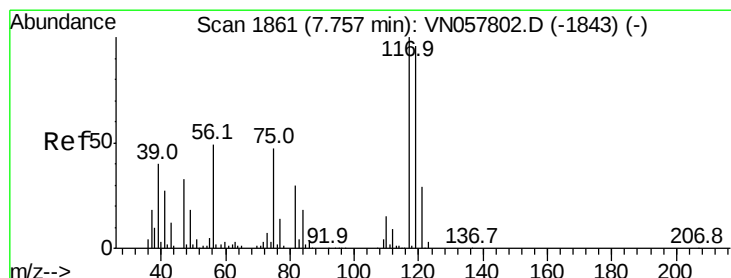
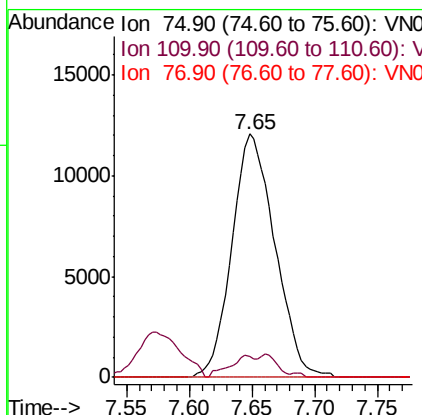
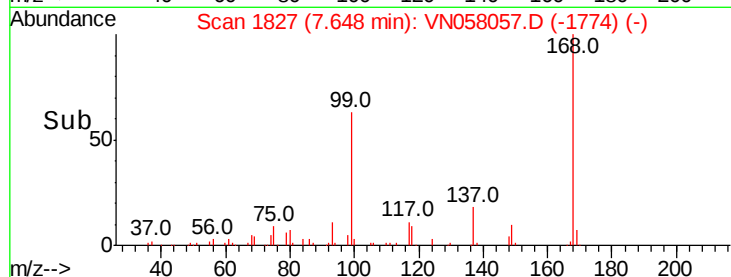
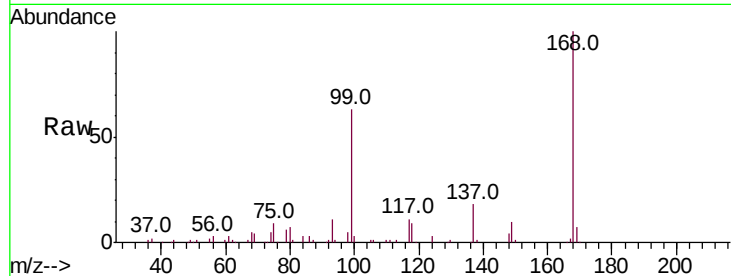




#36
 1,1-Dichloropropene
 Concen: 4.271 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058057.D
 Acq: 14 Sep 2019 7:28

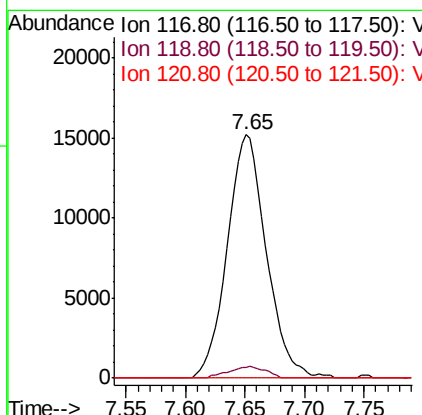
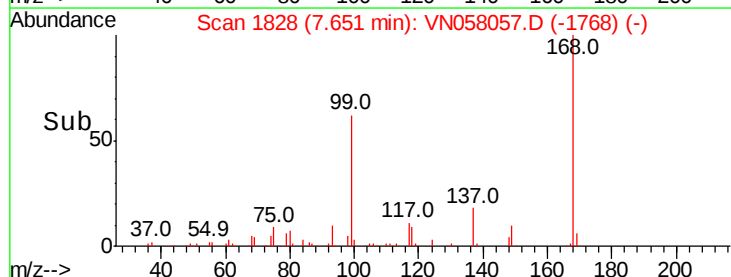
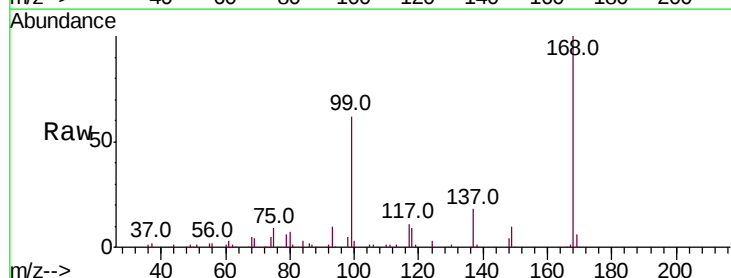
Instrument :
 MSVOA_N
 ClientSampleId :

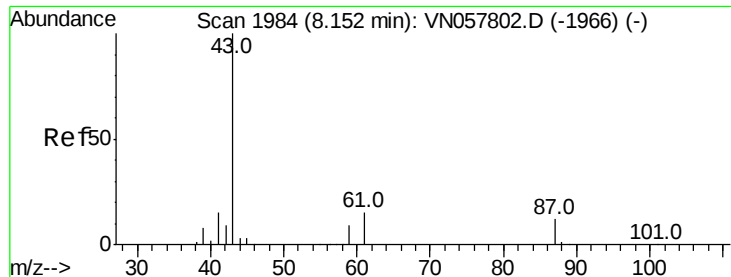
Tot Ion	Ratio	Lower	Upper
75	100		
110	4.9	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.621 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058057.D
 Acq: 14 Sep 2019 7:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 12.763 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

Instrument :

MSVOA_N

ClientSampleId :

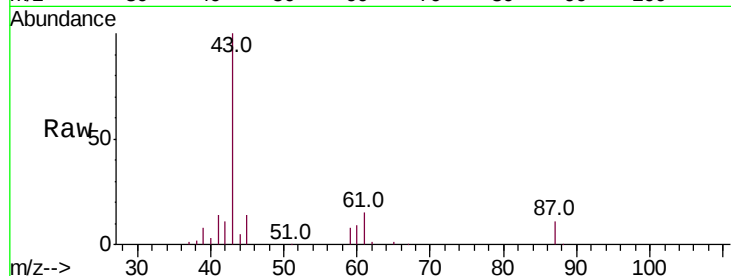
Tot Ion: 43 Resp: 149342

Ion Ratio Lower Upper

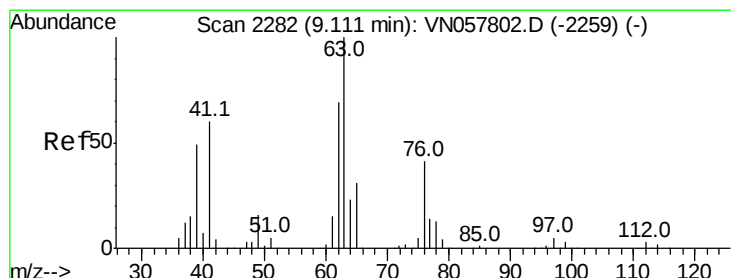
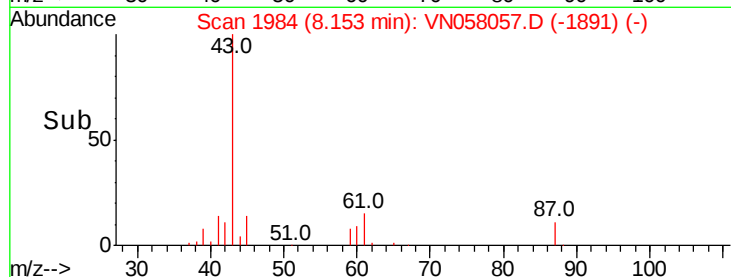
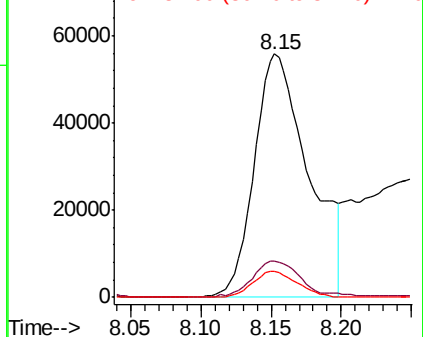
43 100

61 13.6 20.1 30.1#

87 8.8 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



#45

1,2-Dichloropropane

Concen: 0.384 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058057.D

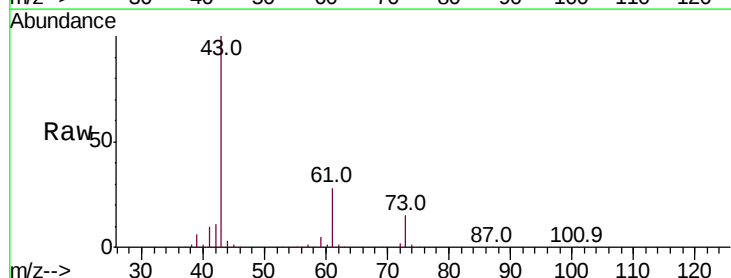
Acq: 14 Sep 2019 7:28

Tgt Ion: 63 Resp: 2266

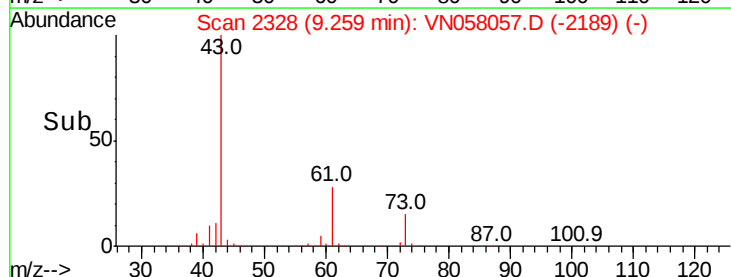
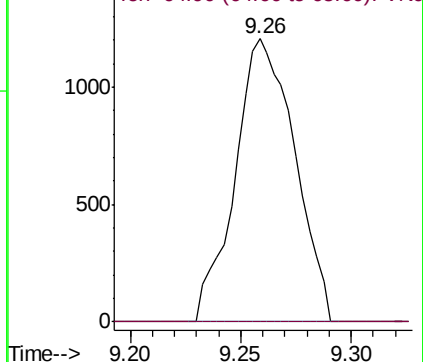
Ion Ratio Lower Upper

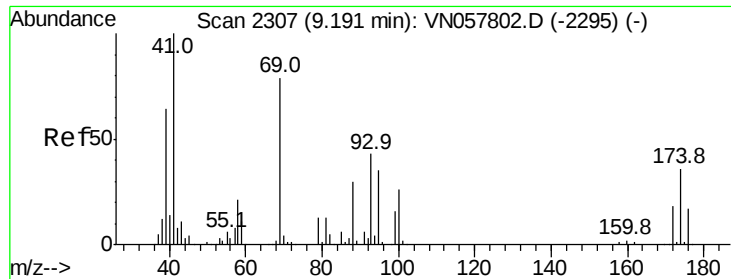
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

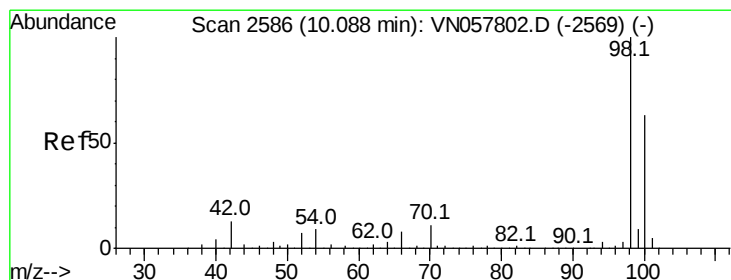
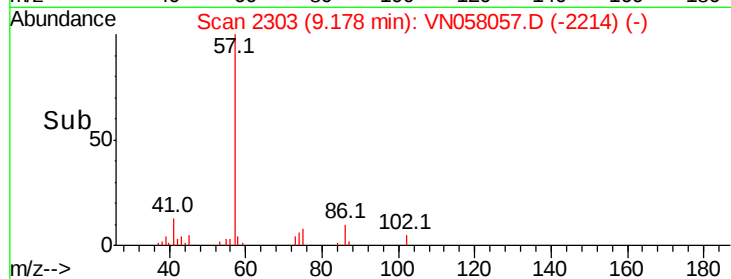
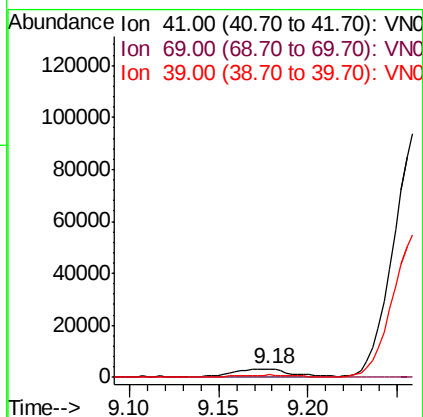
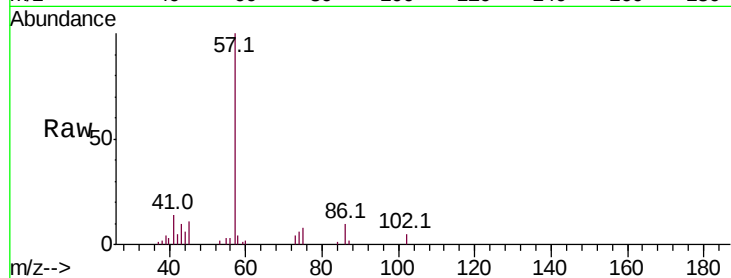




#48
Methvl methacrylate
Concen: 1.271 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

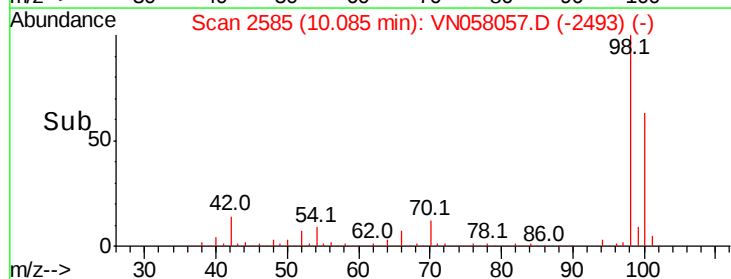
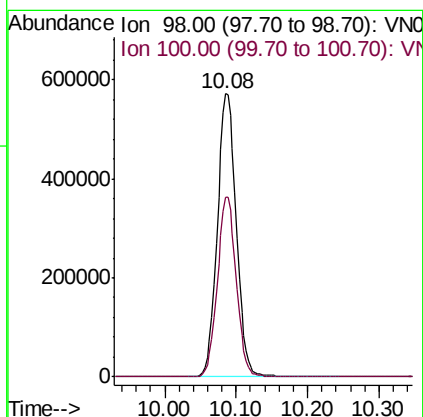
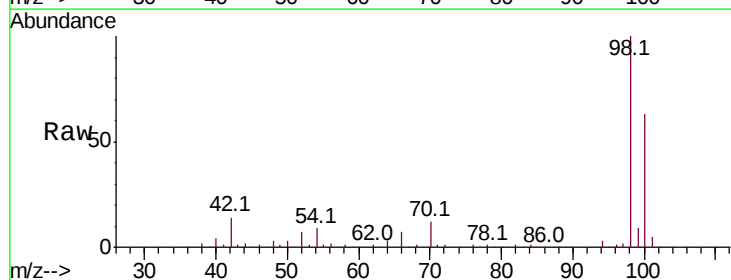
Instrument :
MSVOA_N
ClientSampled :

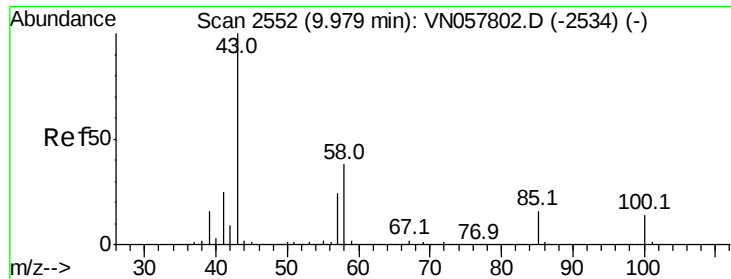
Tot Ion: 41 Resp: 7547
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 50.564 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

Tgt Ion: 98 Resp: 1052204
Ion Ratio Lower Upper
98 100
100 63.0 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.924 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

Instrument :

MSVOA_N

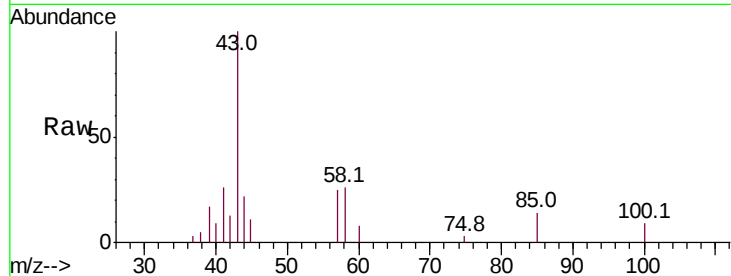
ClientSampled :

Tot Ion: 43 Resp: 6397

Ion Ratio Lower Upper

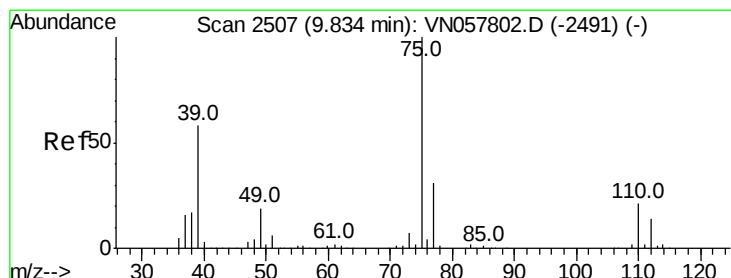
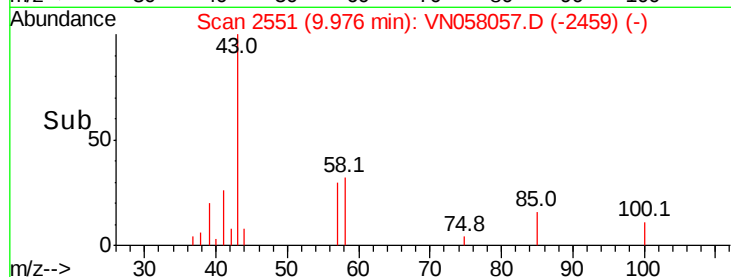
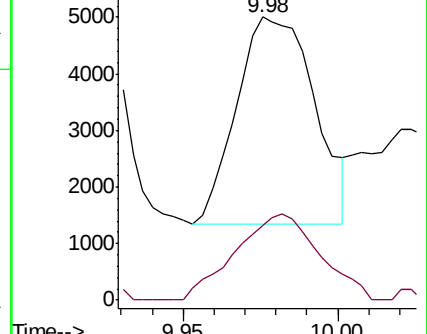
43 100

58 45.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.558 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

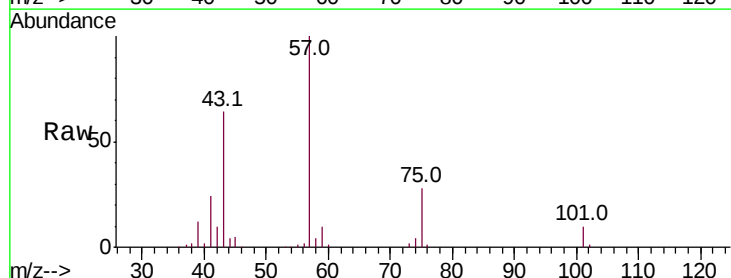
Tgt Ion: 75 Resp: 46007

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

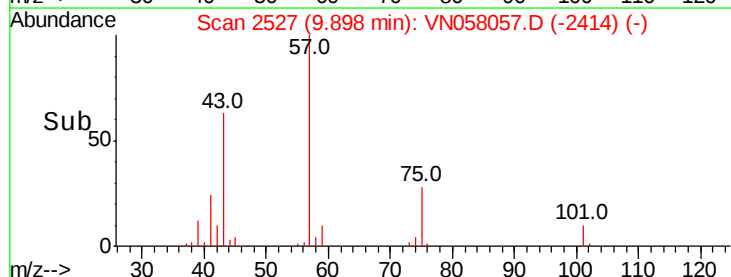
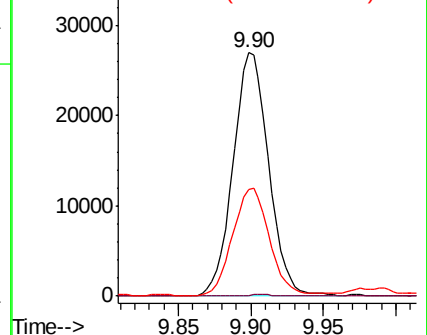
39 44.0 46.2 69.4#

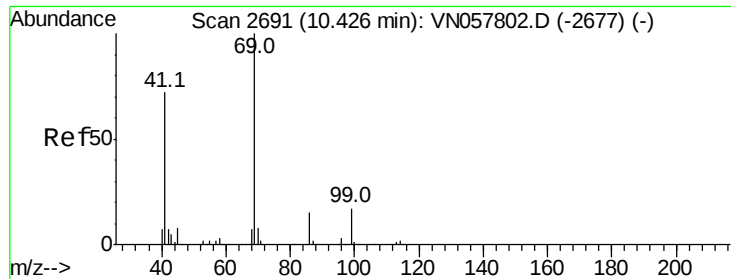


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.229 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

Instrument :

MSVOA_N

ClientSampleId :

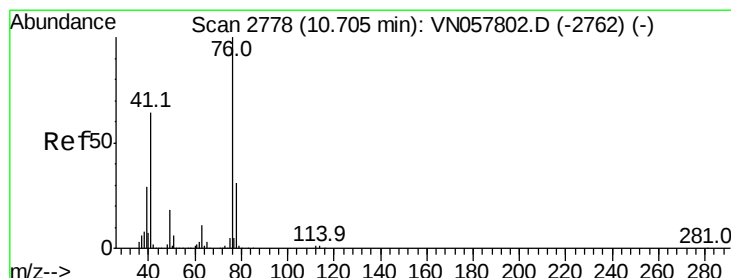
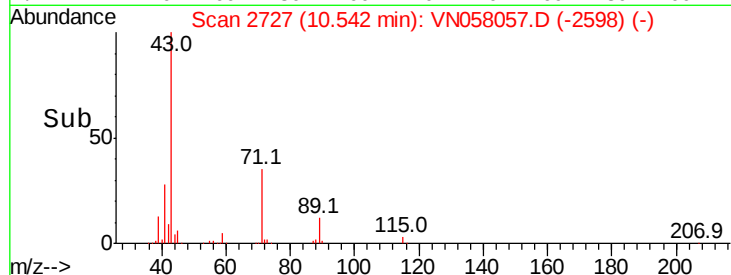
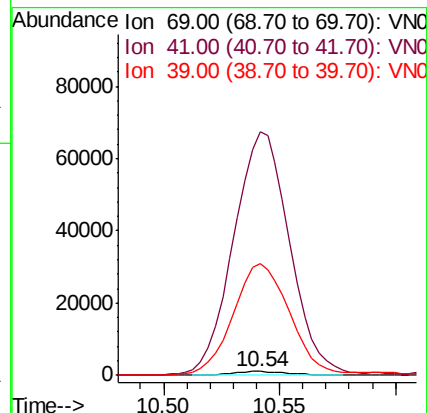
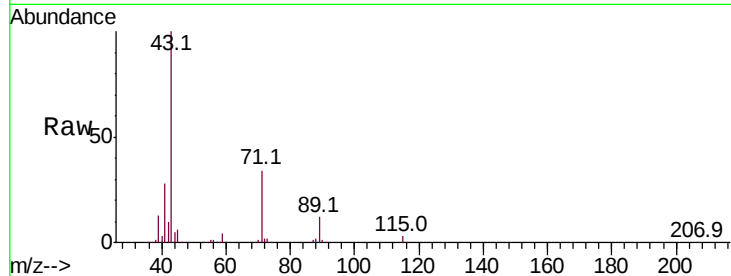
Tot Ion: 69 Resp: 1864

Ion Ratio Lower Upper

69 100

41 6022.0 56.7 85.1#

39 2822.7 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.848 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058057.D

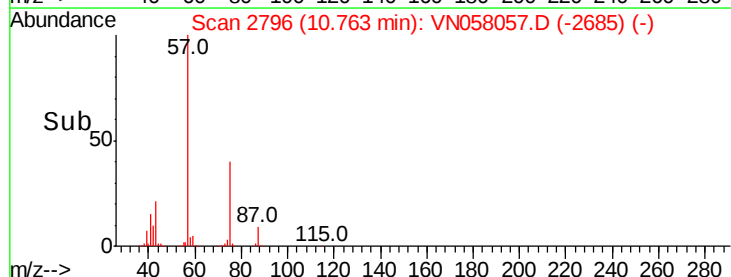
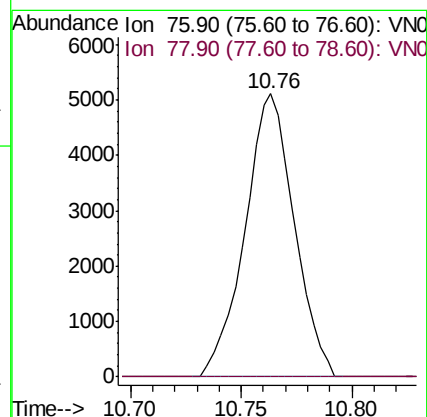
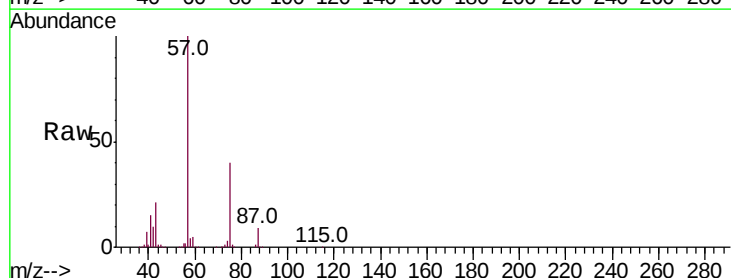
Acq: 14 Sep 2019 7:28

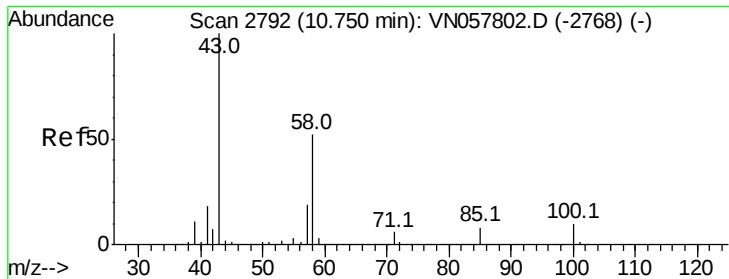
Tgt Ion: 76 Resp: 7910

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 23.017 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

Instrument :

MSVOA_N

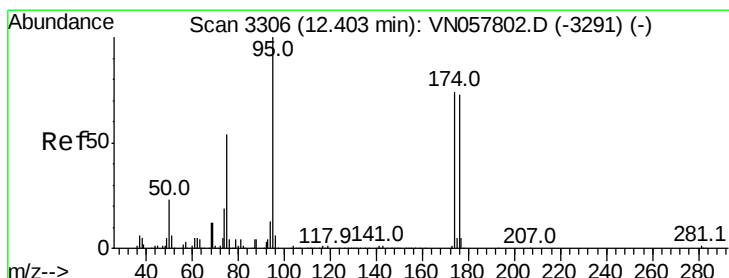
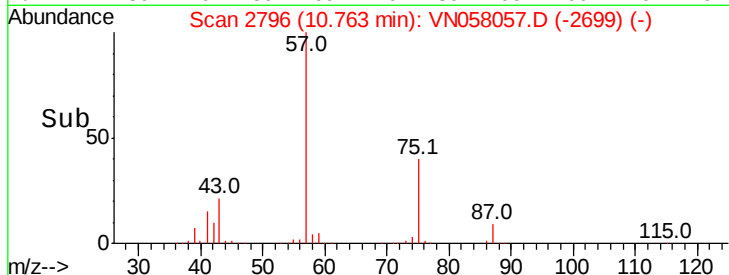
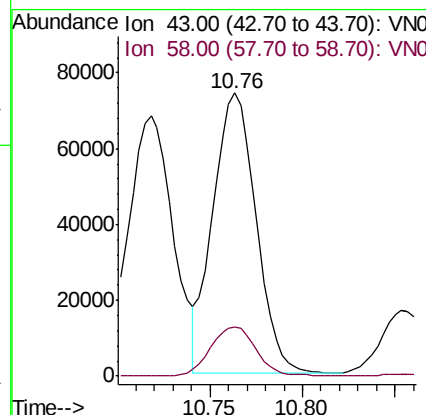
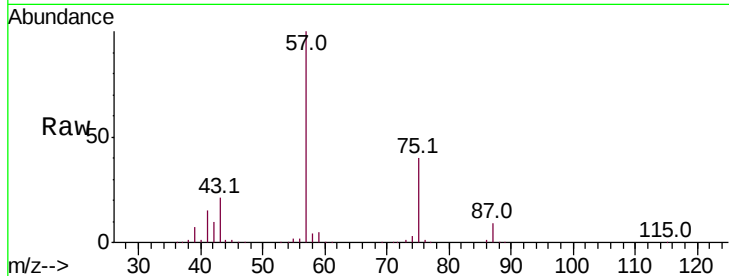
ClientSampled :

Tot Ion: 43 Resp: 119464

Ion Ratio Lower Upper

43 100

58 18.7 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 44.174 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

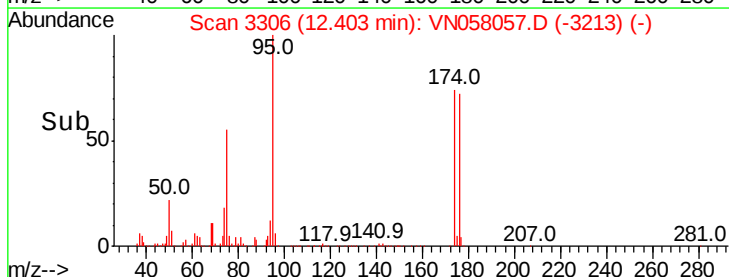
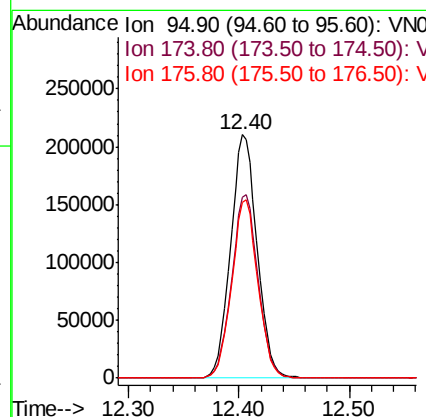
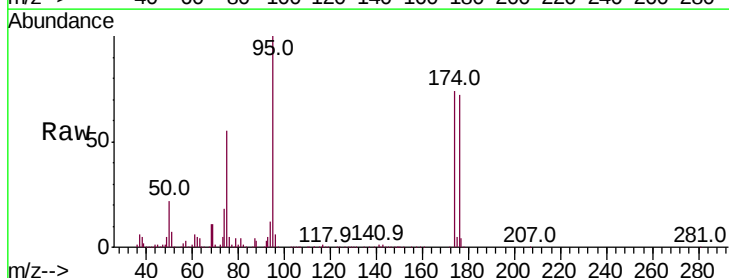
Tgt Ion: 95 Resp: 350306

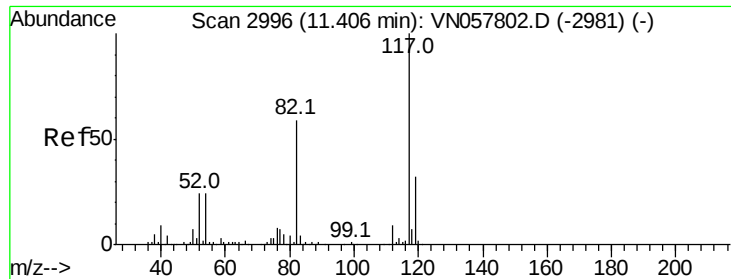
Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

176 72.1 0.0 146.0

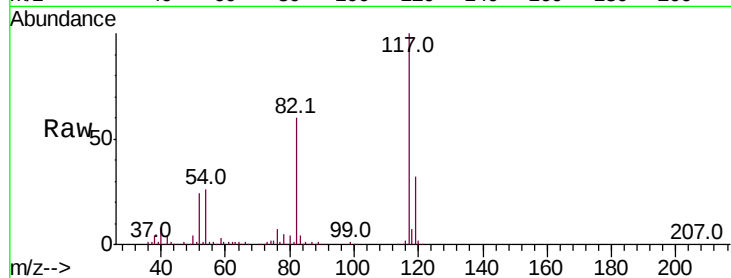




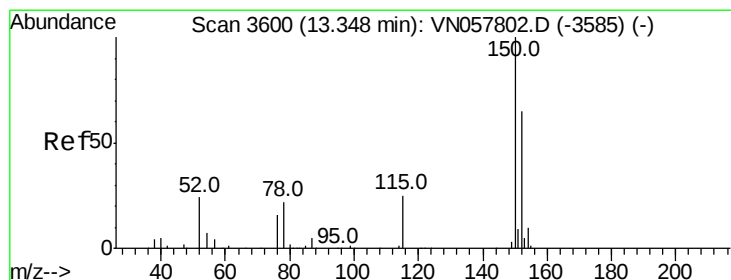
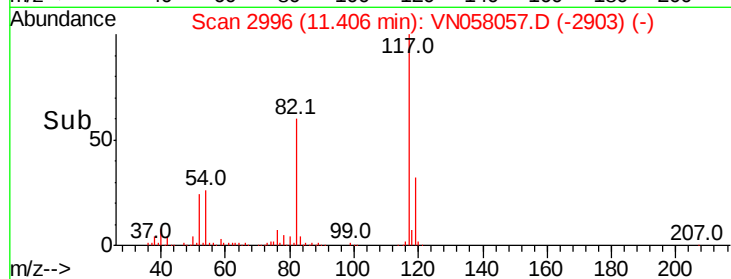
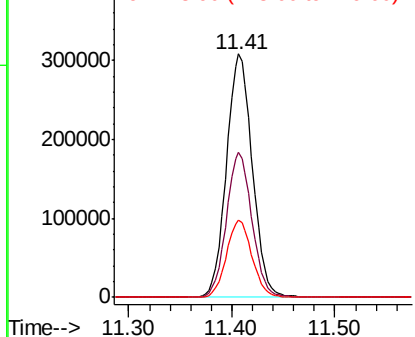
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 537757
Ion Ratio Lower Upper
117 100
82 59.7 47.2 70.8
119 31.6 25.3 37.9

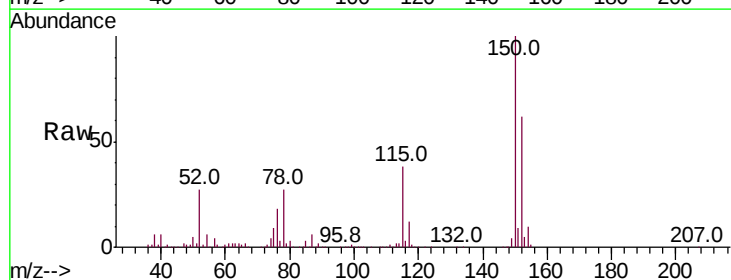


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

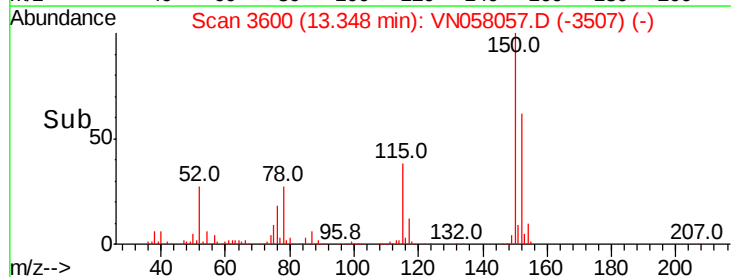
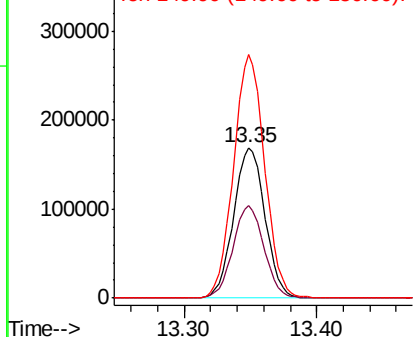


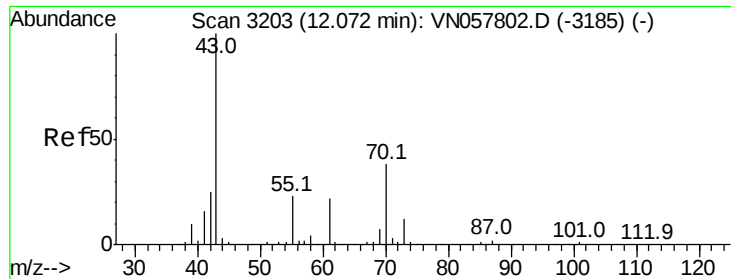
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058057.D
Acq: 14 Sep 2019 7:28

Tgt Ion:152 Resp: 278163
Ion Ratio Lower Upper
152 100
115 60.8 30.3 91.0
150 160.4 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-amvl acetate

Concen: 0.784 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 7366

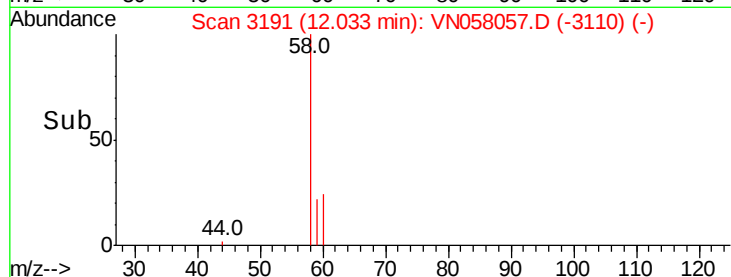
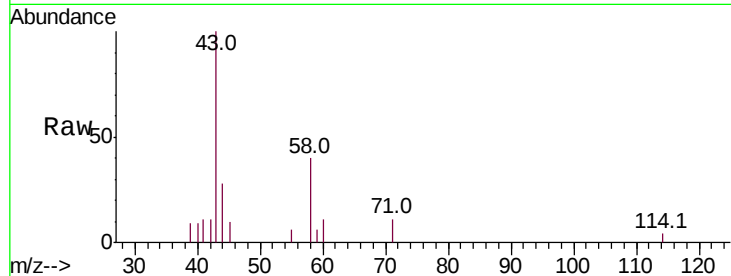
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.3 18.6 27.8#

61 0.0 17.4 26.2#

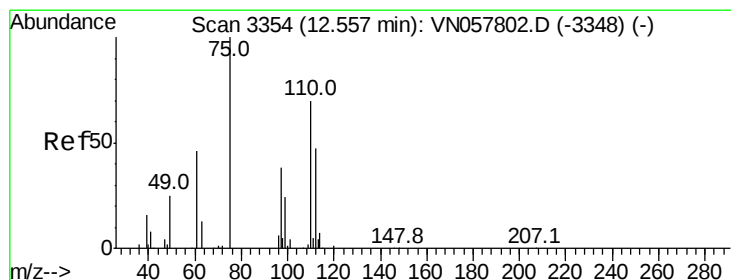
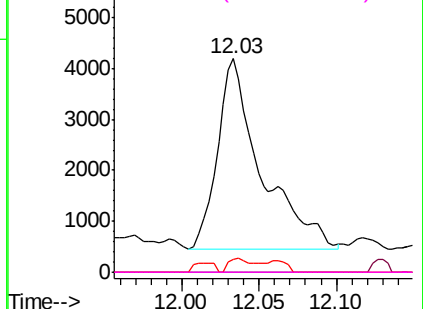


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.524 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058057.D

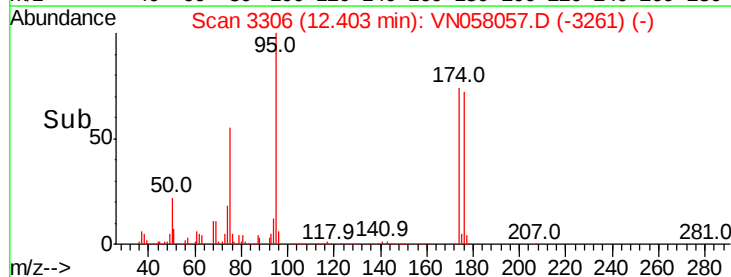
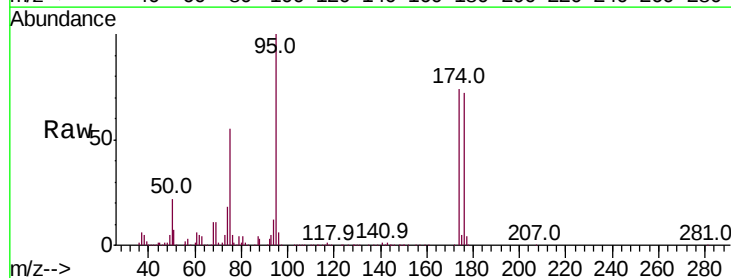
Acq: 14 Sep 2019 7:28

Tgt Ion: 75 Resp: 192075

Ion Ratio Lower Upper

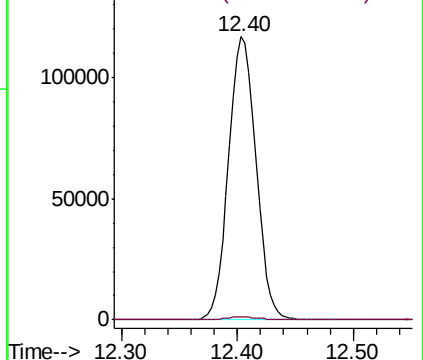
75 100

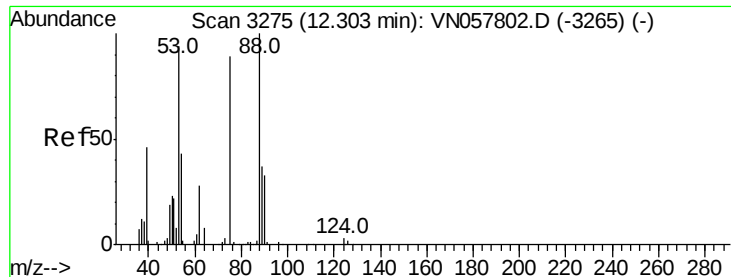
77 1.2 0.0 0.0#



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: 107.416 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

Instrument :

MSVOA_N

ClientSampleId :

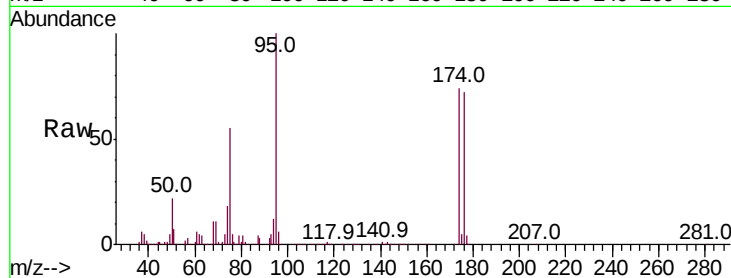
Tot Ion: 75 Resp: 192075

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): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)

12.40

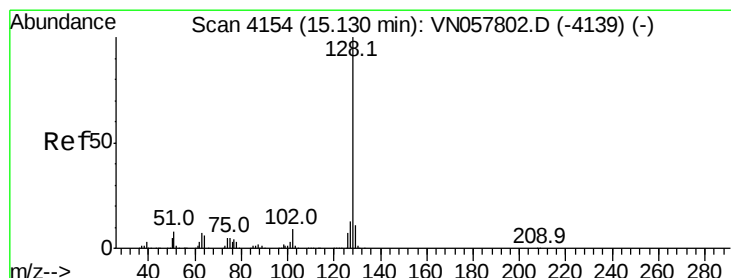
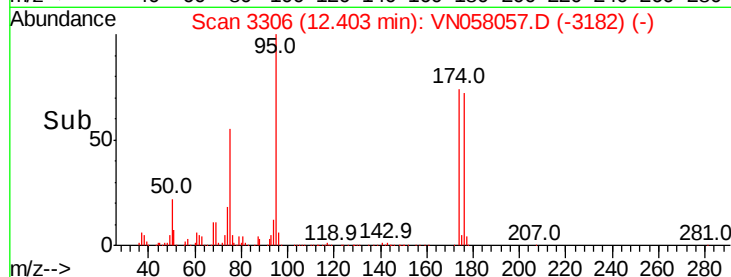
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN058057.D

Acq: 14 Sep 2019 7:28

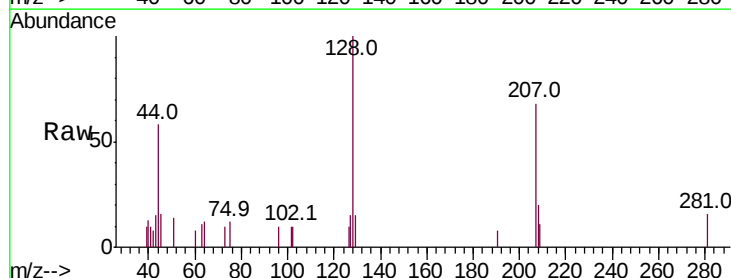
Tgt Ion: 128 Resp: 3823

Ion Ratio Lower Upper

128 100

127 6.9 10.3 15.5#

129 9.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

2500

2000

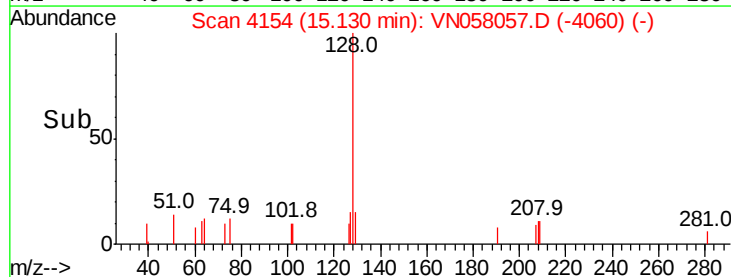
1500

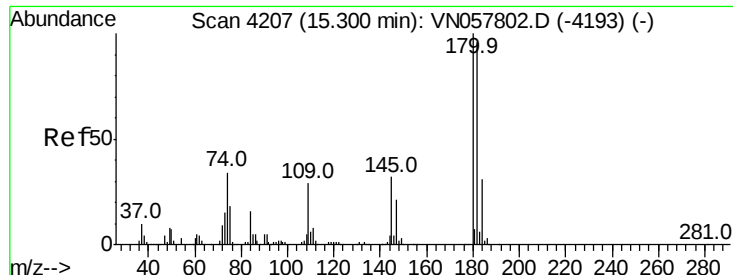
1000

500

0

Time--> 15.10 15.15 15.20

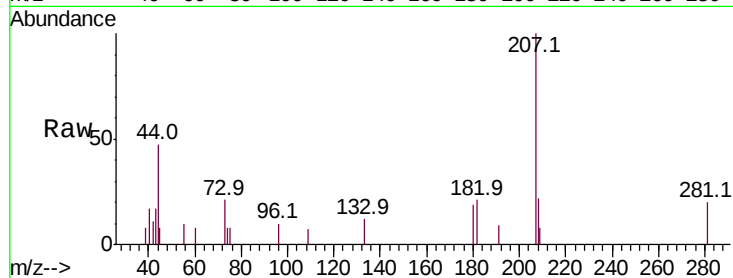




#96
 1,2,3-Trichlorobenzene
 Concen: 1.107 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058057.D
 Acq: 14 Sep 2019 7:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	109.4	48.3	144.8
145	20.3	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

