

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058968.D
 Acq On : 24 Oct 2019 17:46
 Operator : JC/SP
 Sample : K5148-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:26:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	324654	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	515802	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	482926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	176543	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	239527	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
35) Dibromofluoromethane	7.57	113	172772	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
50) Toluene-d8	10.08	98	672992	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.40	95	211200	43.69	ug/l	0.00
Spiked Amount			Recovery	=	87.38%	

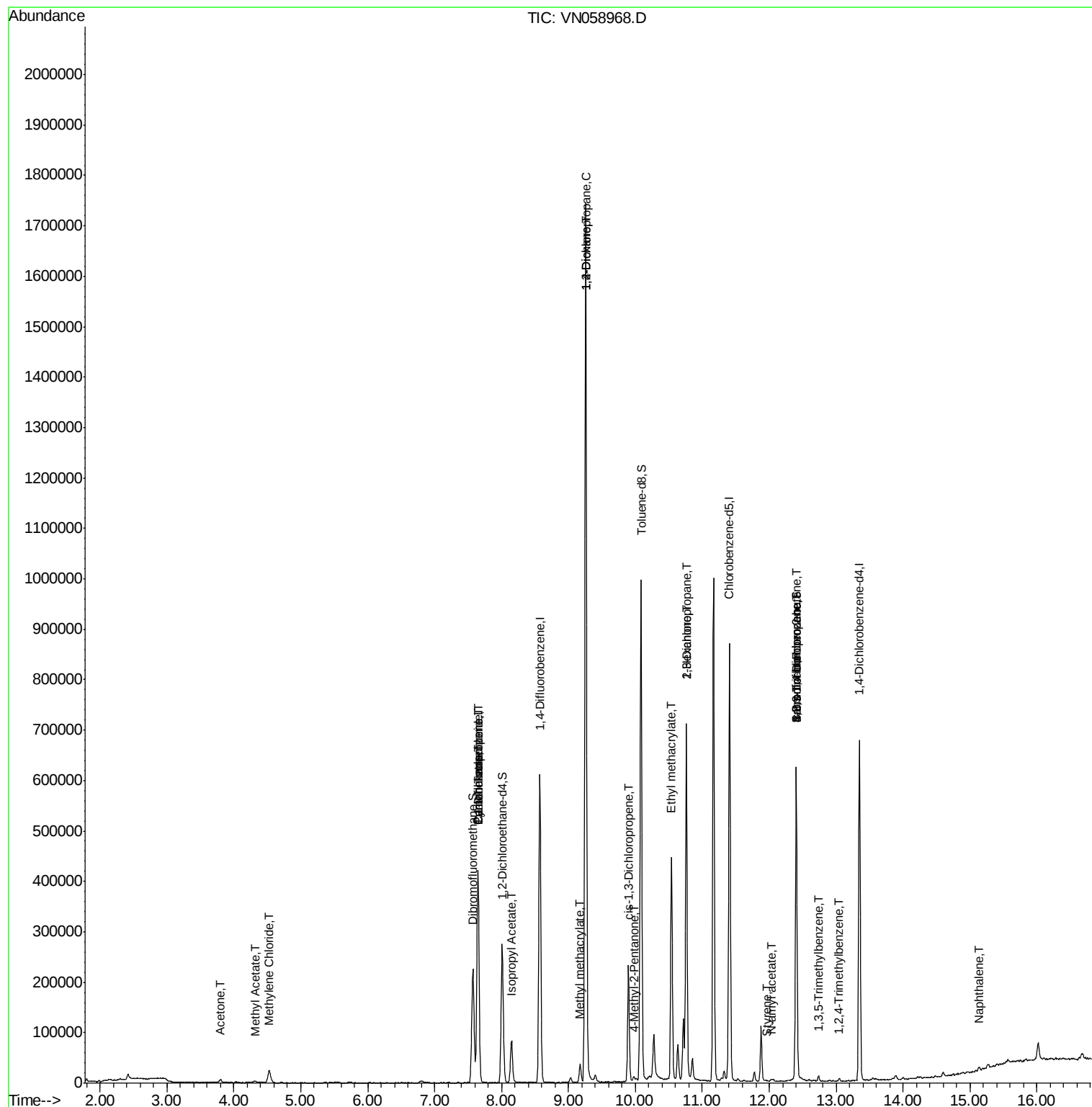
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	10359	4.403	ug/l	97
18) Methyl Acetate	4.31	43	5887	1.101	ug/l #	88
20) Methylene Chloride	4.53	84	17485	4.352	ug/l	95
31) Cyclohexane	7.65	56	7566	1.106	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	27211	5.153	ug/l #	51
38) Carbon Tetrachloride	7.65	117	33964	6.243	ug/l #	17
43) Isopropyl Acetate	8.15	43	98615	10.686	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1927	0.453	ug/l #	44
48) Methyl methacrylate	9.17	41	5573	1.331	ug/l #	14
49) 1,4-Dioxane	9.26	88	175	2.546	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6513	1.208	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	38792	5.920	ug/l #	67
56) Ethyl methacrylate	10.54	69	1913	2.386	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6964	1.047	ug/l #	43
59) 2-Hexanone	10.76	43	107092	25.712	ug/l #	52
70) Styrene	11.97	104	105	1.723	ug/l #	24
71) Bromoform	12.40	173	1189	0.413	ug/l #	1
74) N-amyl acetate	12.03	43	4617	0.789	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	113124	27.648	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	5023	0.463	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	113124	72.025	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.04	105	3388	0.317	ug/l	96
95) Naphthalene	15.14	128	4232	2.625	ug/l	97

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

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

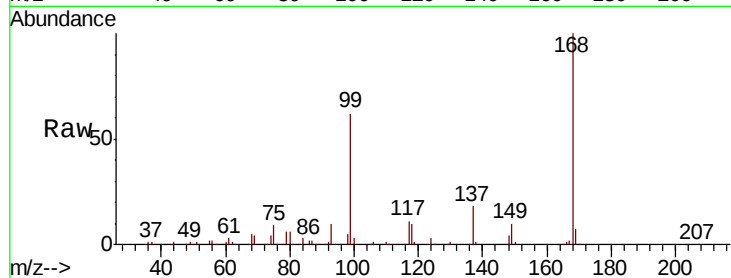
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 324654

Ion Ratio Lower Upper

168 100

99 61.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VN058846.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN058846.D (-1807) (-)

7.65

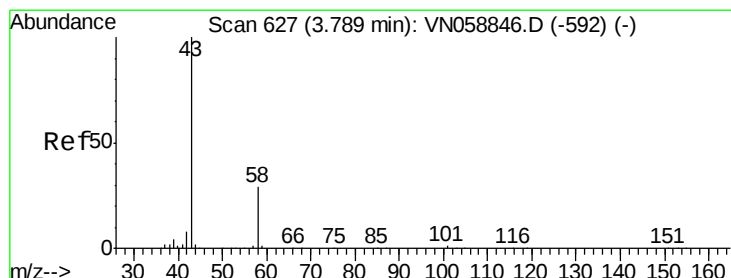
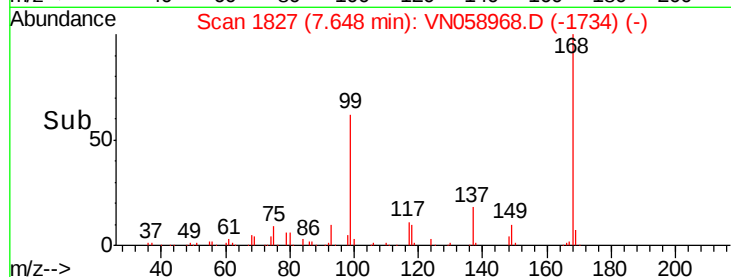
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 4.403 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058968.D

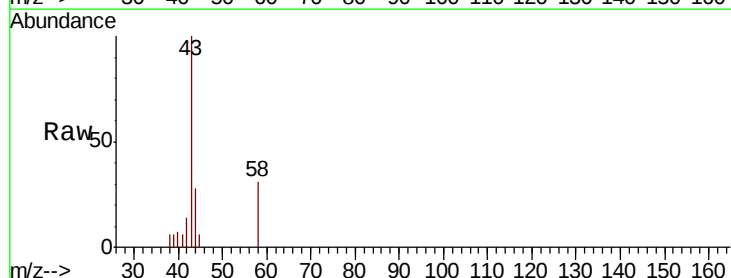
Acq: 24 Oct 2019 17:46

Tgt Ion: 43 Resp: 10359

Ion Ratio Lower Upper

43 100

58 30.7 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-592) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-592) (-)

3.80

4000

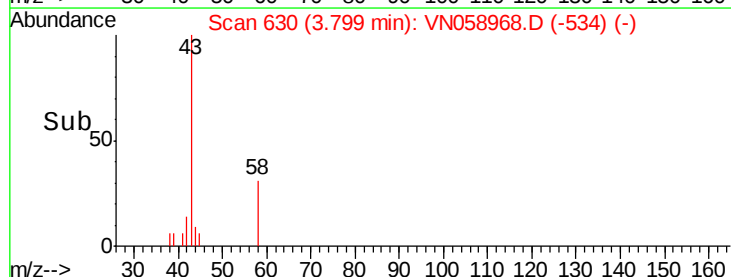
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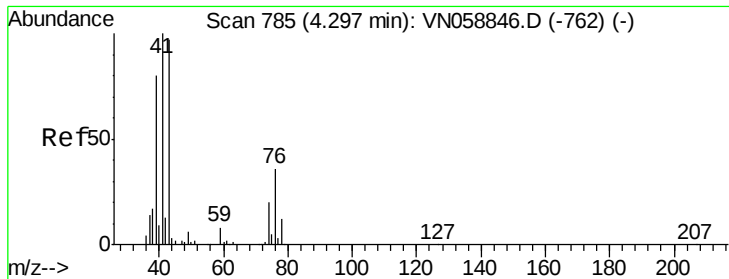
2000

1000

0

Time-->

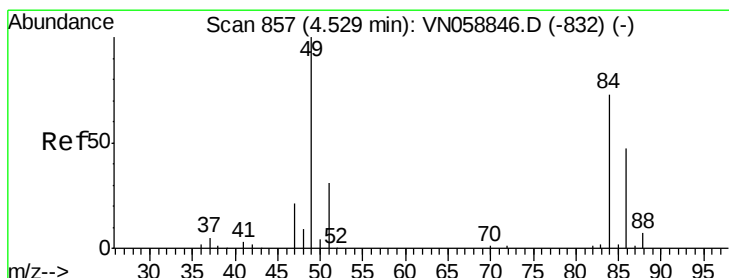
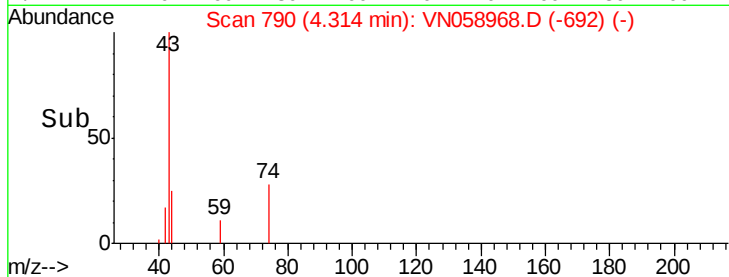
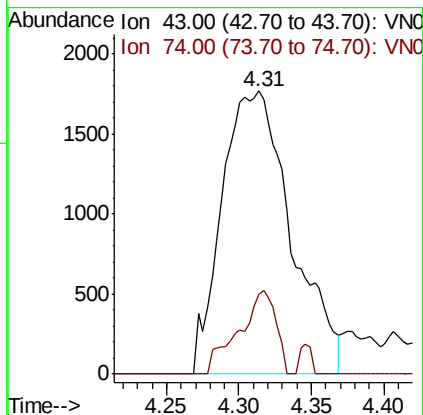
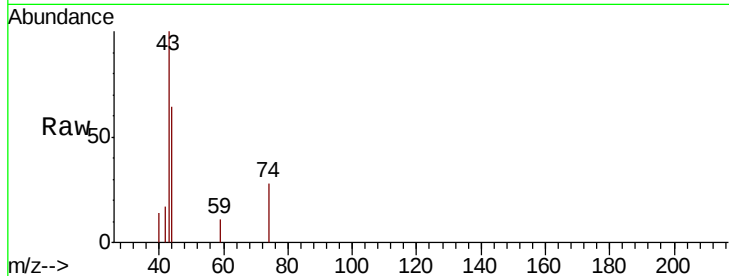




#18
Methvl Acetate
Concen: 1.101 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.02 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

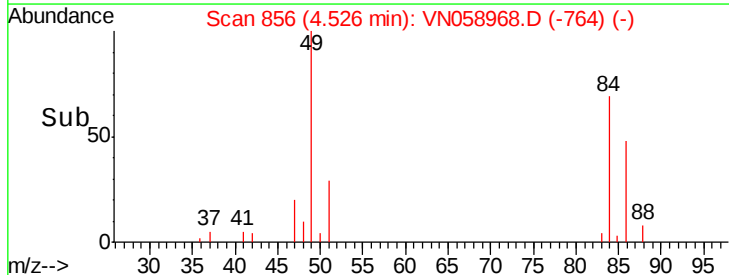
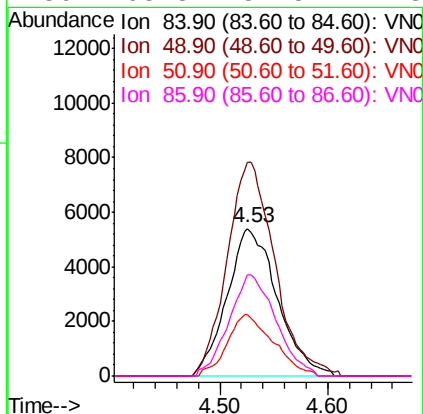
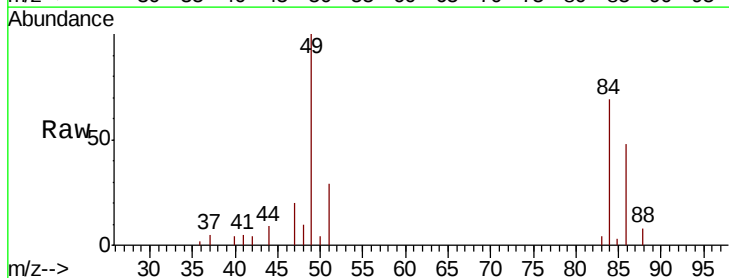
Instrument :
MSVOA_N
ClientSampleId :

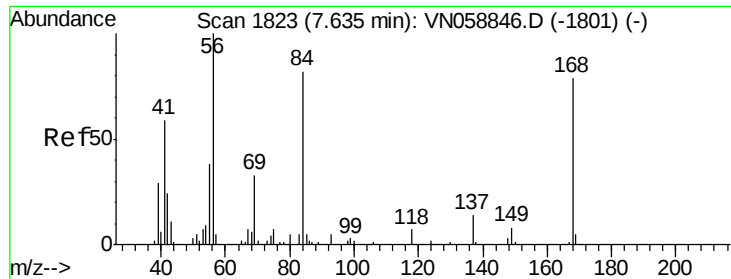
Tot Ion: 43 Resp: 5887
Ion Ratio Lower Upper
43 100
74 15.8 17.1 25.7#



#20
Methylene Chloride
Concen: 4.352 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Tgt Ion: 84 Resp: 17485
Ion Ratio Lower Upper
84 100
49 144.7 109.6 164.4
51 41.5 33.8 50.6
86 68.8 51.5 77.3

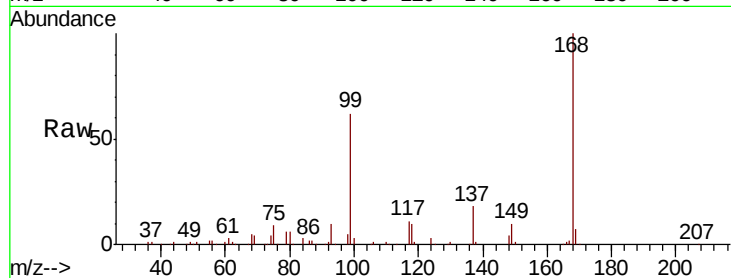




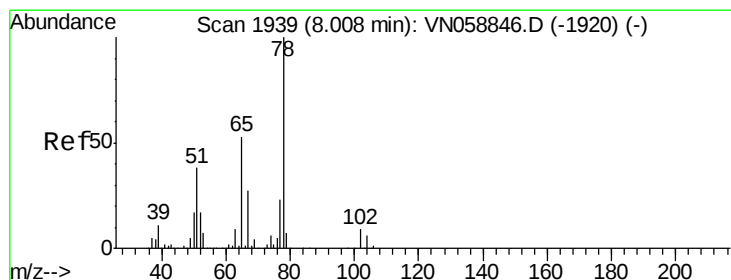
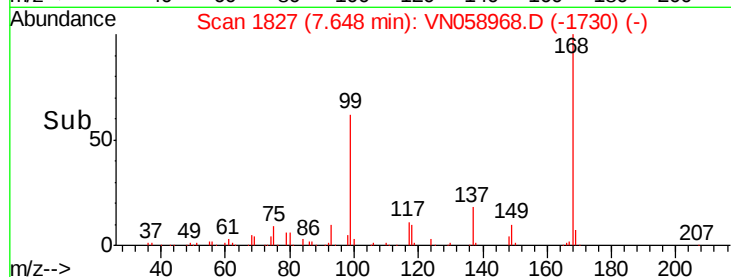
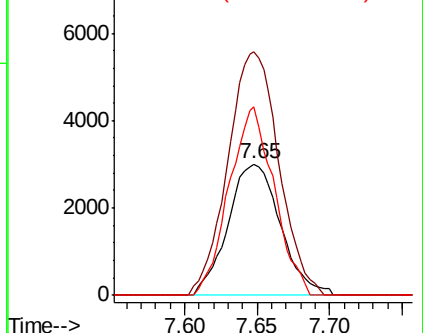
#31
Cyclohexane
Concen: 1.106 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7566
Ion Ratio Lower Upper
56 100
69 185.2 26.2 39.4#
84 143.2 65.6 98.4#

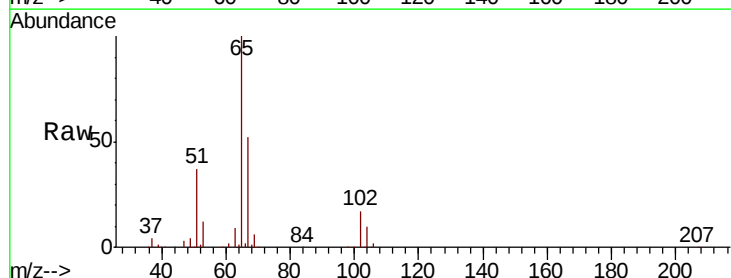


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

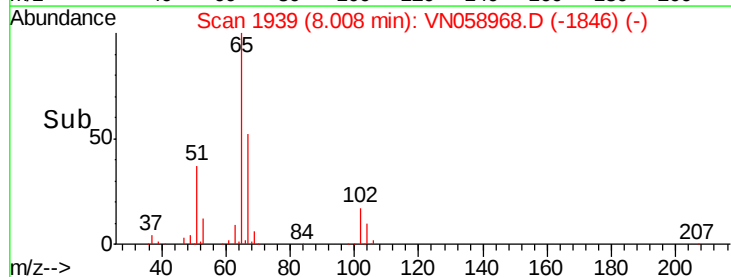
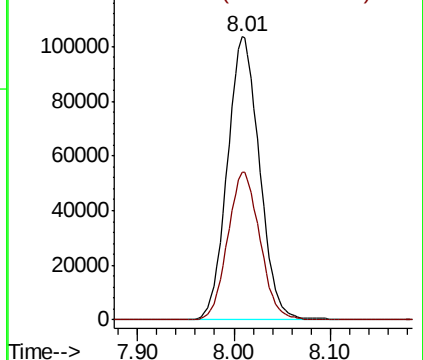


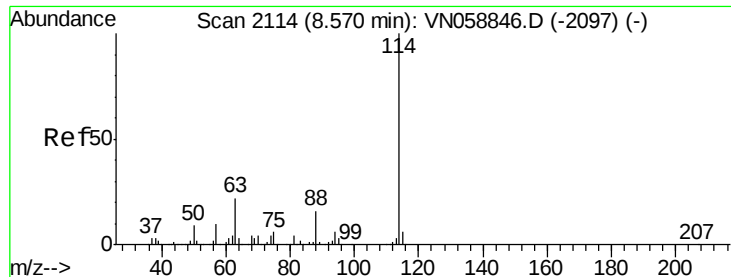
#33
1,2-Dichloroethane-d4
Concen: 50.304 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Tgt Ion: 65 Resp: 239527
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.2



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

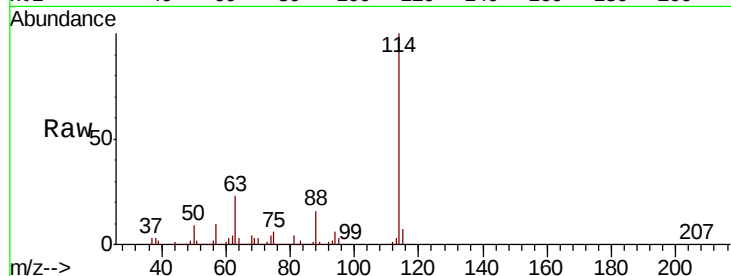




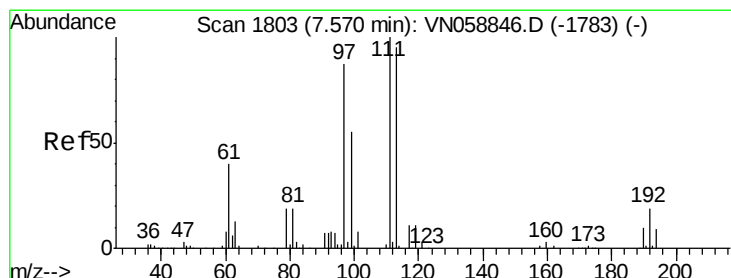
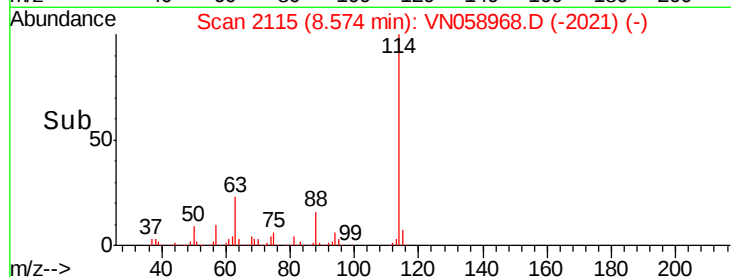
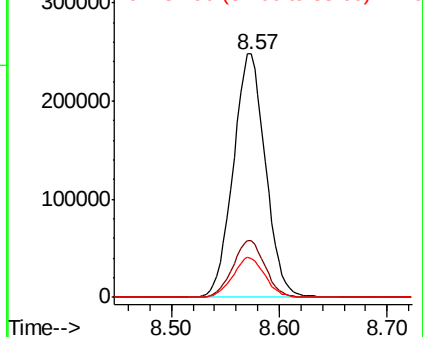
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	44.4
88	16.1	0.0	31.4

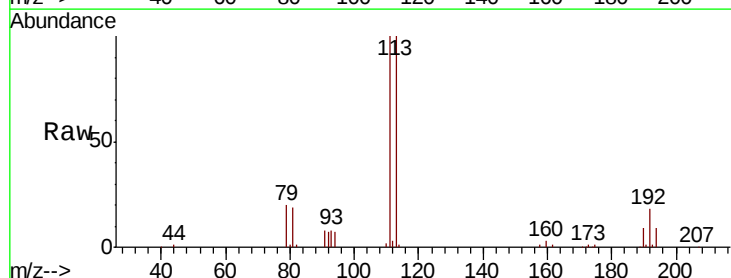


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

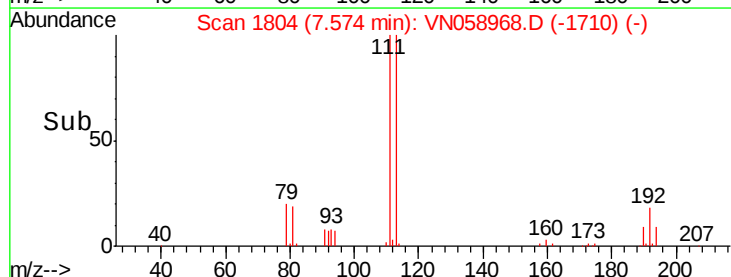
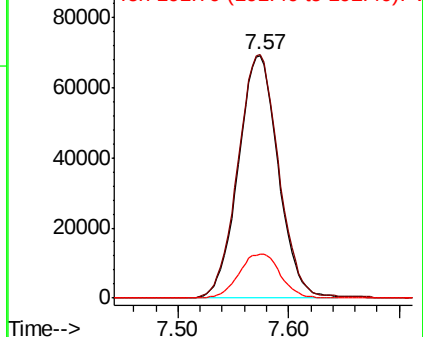


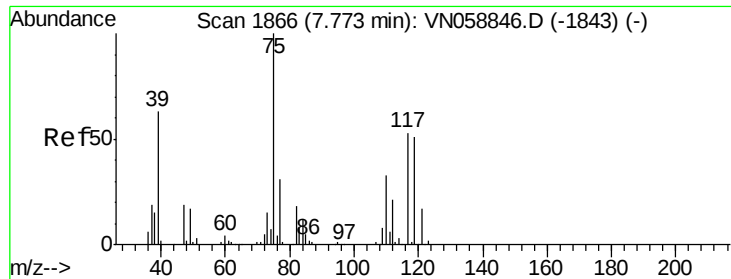
#35
Dibromofluoromethane
Concen: 50.946 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.0	123.0
192	18.9	15.0	22.6



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

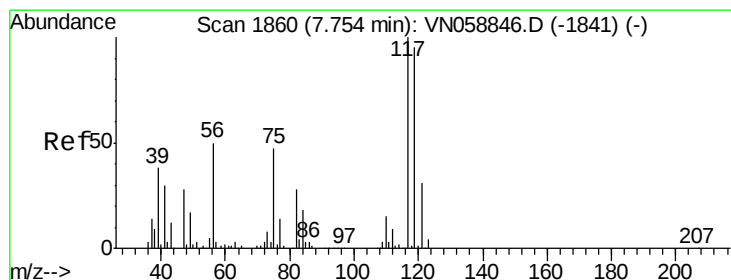
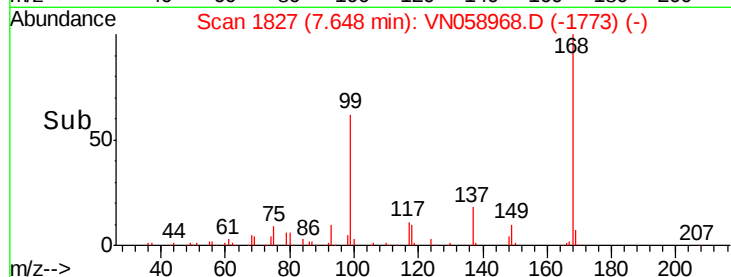
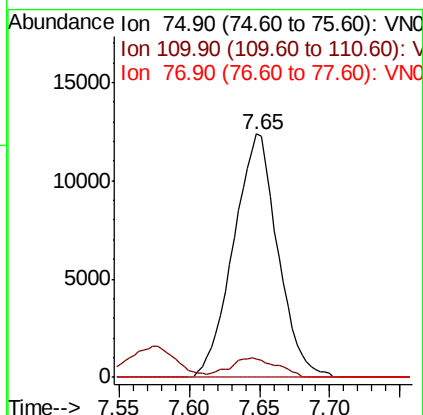
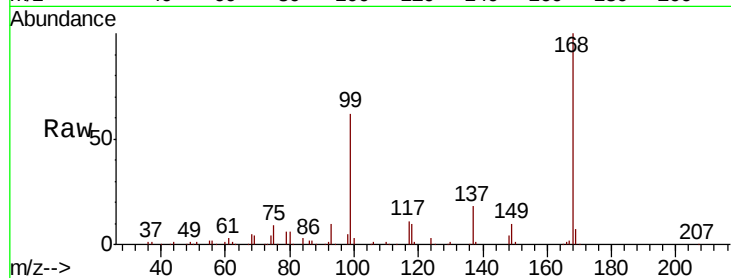




#36
 1,1-Dichloropropene
 Concen: 5.153 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

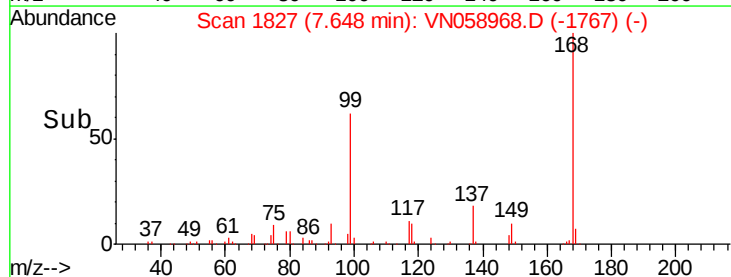
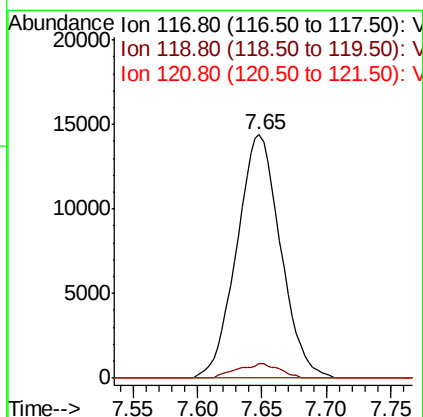
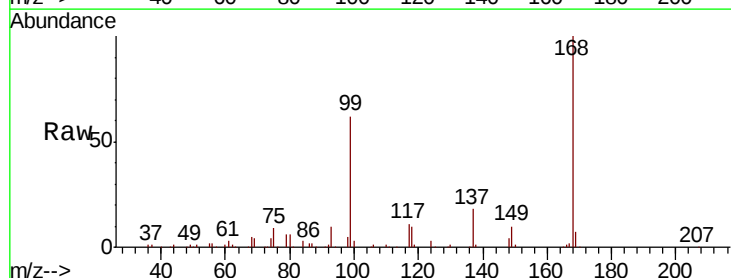
Instrument :
 MSVOA_N
 ClientSampled :

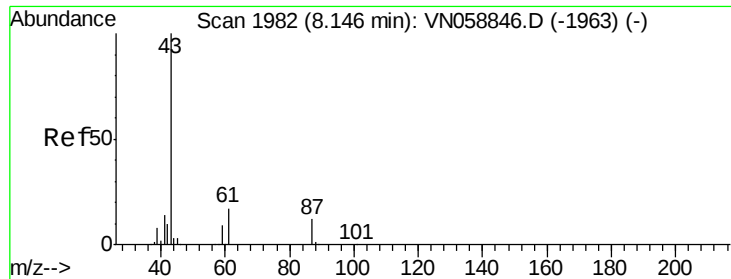
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.243 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.7	113.5#
121	0.0	25.0	37.6#



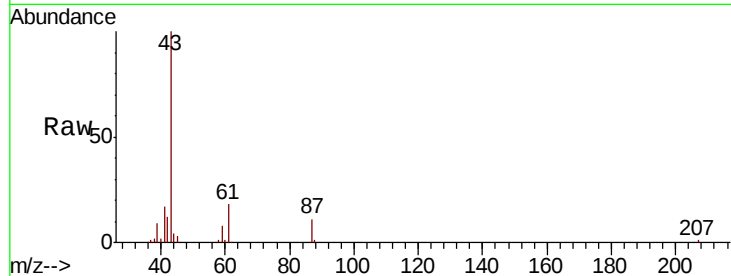


#43

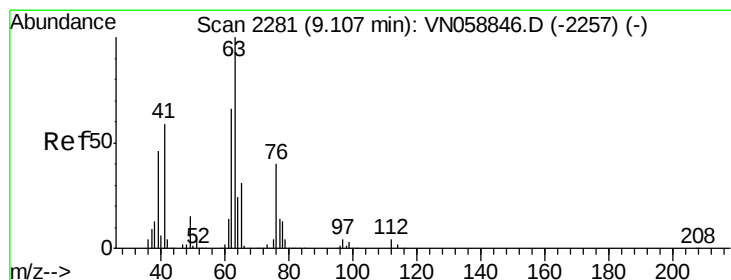
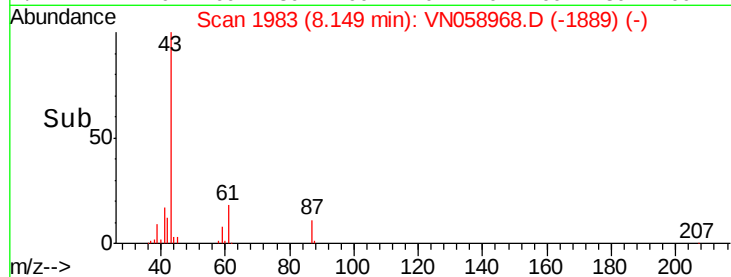
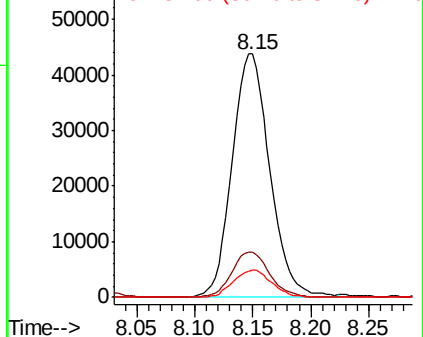
Isopropyl Acetate
 Concen: 10.686 ug/l
 RT: 8.15 min Scan# 1983
 Delta R.T. 0.00 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.7	20.2	30.2#
87	11.3	9.5	14.3



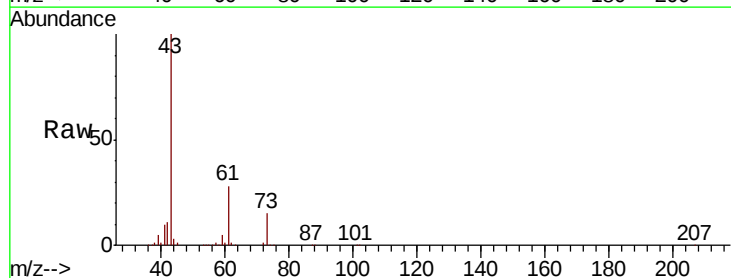
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



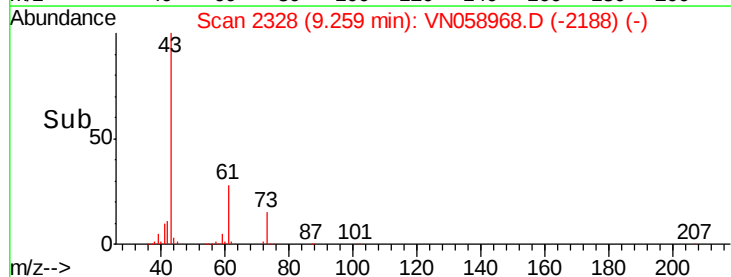
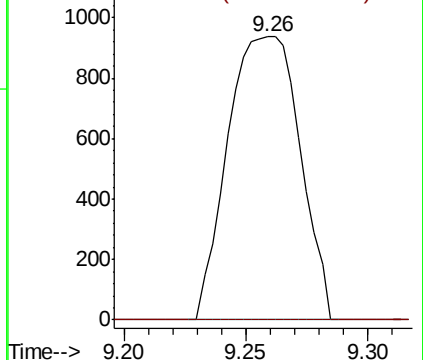
#45

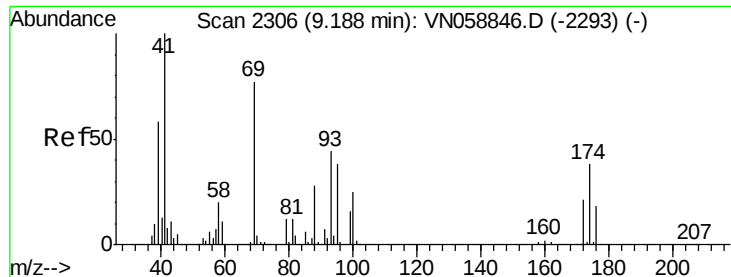
1,2-Dichloropropane
 Concen: 0.453 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.5	36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 64.90 (64.60 to 65.60): VN0

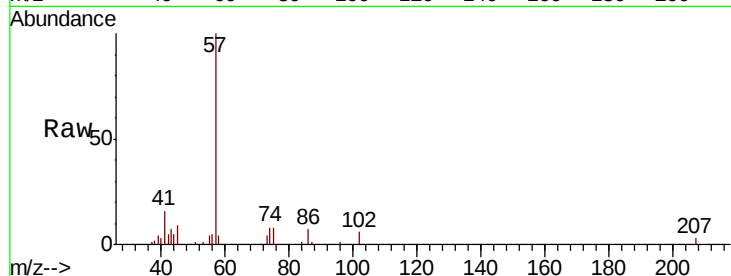




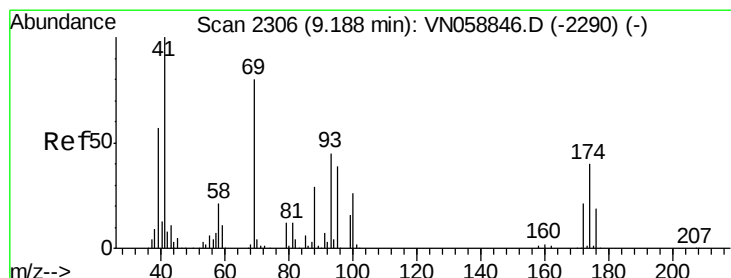
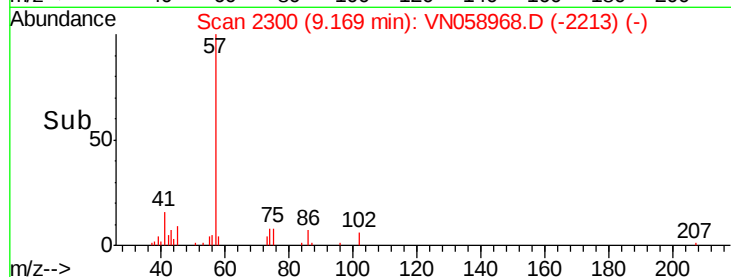
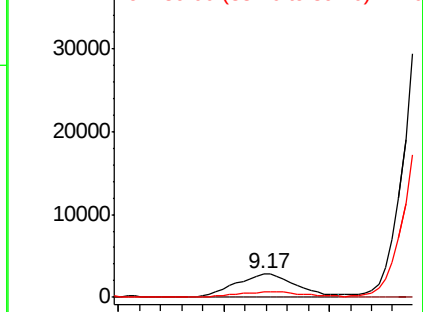
#48
Methyl methacrylate
Concen: 1.331 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 5573
Ion Ratio Lower Upper
41 100
69 0.0 63.8 95.6#
39 0.0 47.8 71.8#

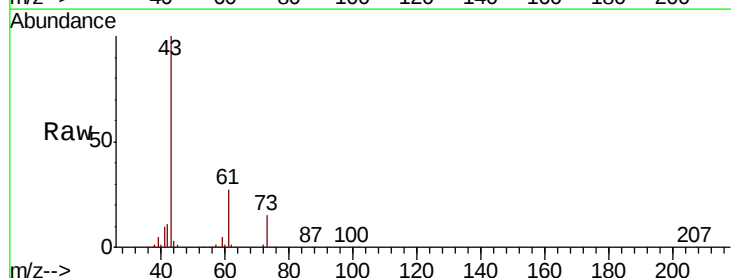


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

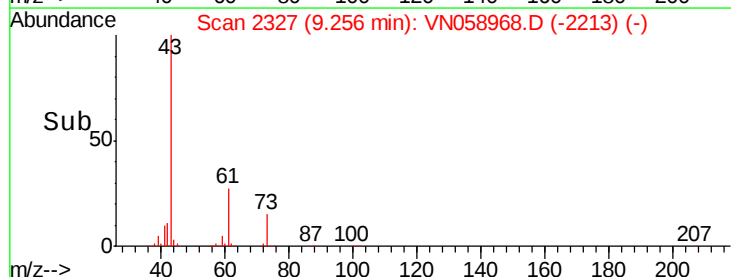
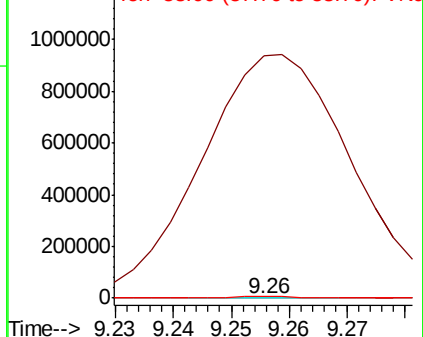


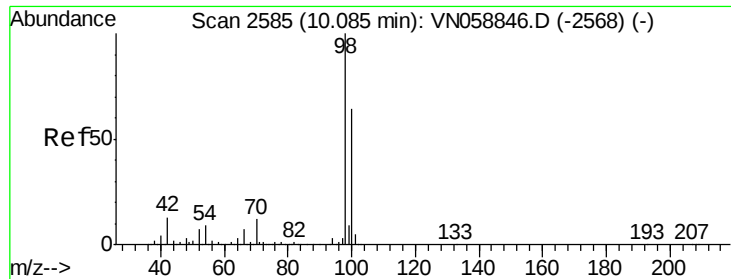
#49
1,4-Dioxane
Concen: 2.546 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.07 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 997385.7 29.1 43.7#
58 4706.3 59.4 89.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 51.122 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

Instrument :

MSVOA_N

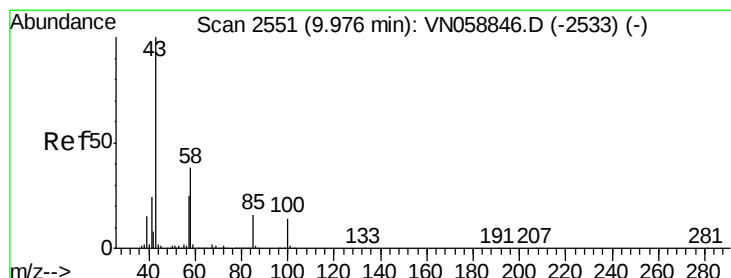
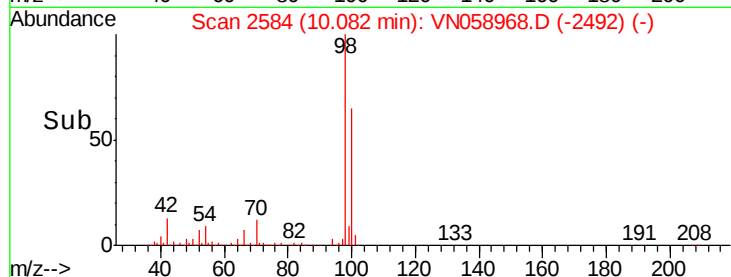
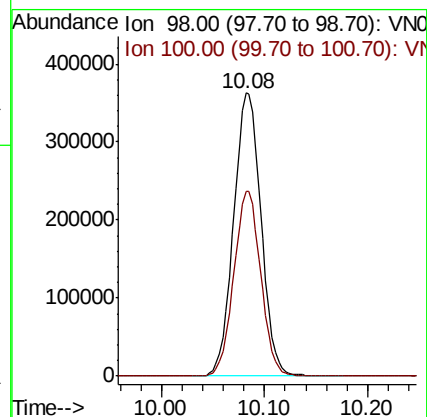
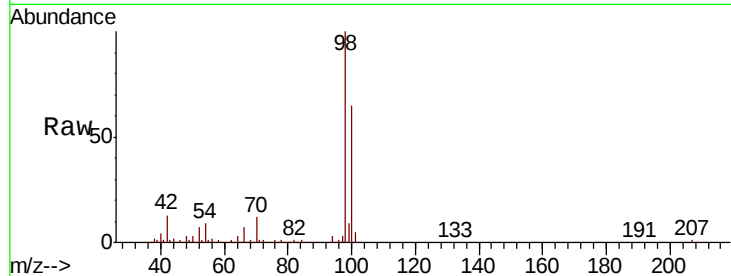
ClientSampled :

Tot Ion: 98 Resp: 672992

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.2



#51

4-Methyl-2-Pentanone

Concen: 1.208 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058968.D

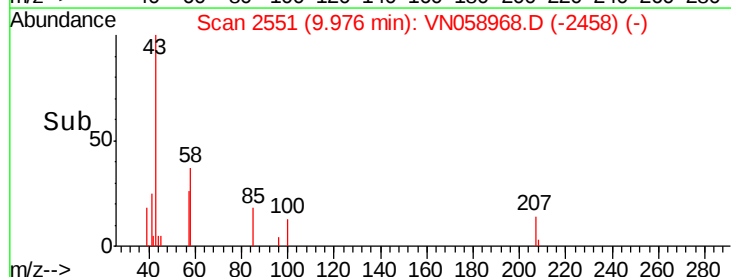
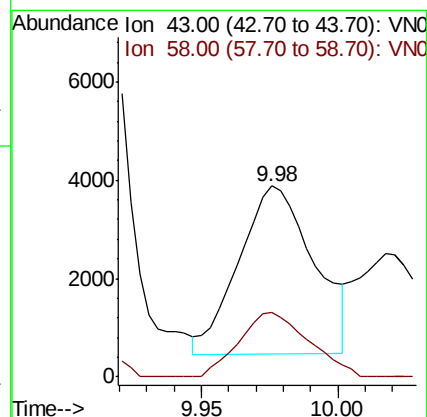
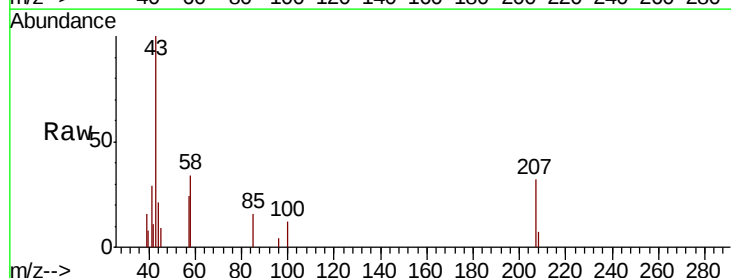
Acq: 24 Oct 2019 17:46

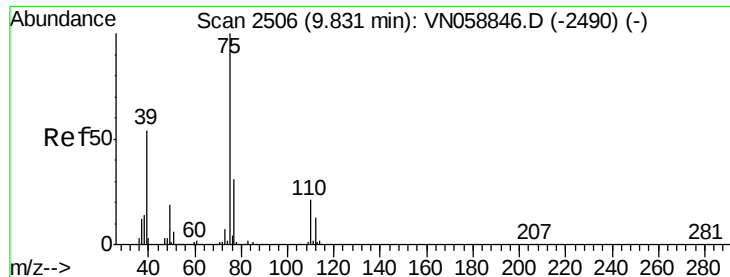
Tgt Ion: 43 Resp: 6513

Ion Ratio Lower Upper

43 100

58 35.6 29.9 44.9



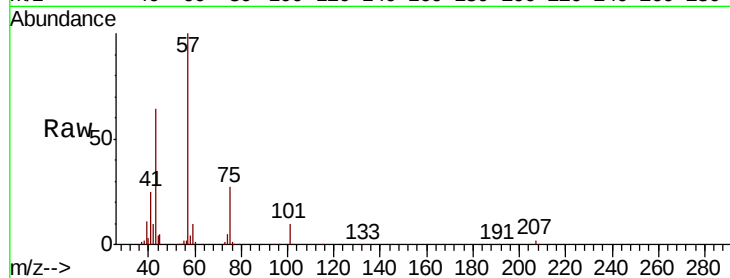


#54

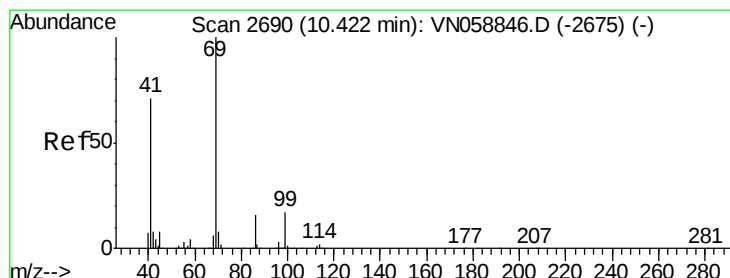
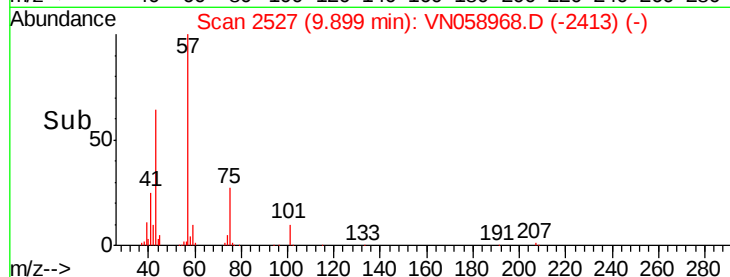
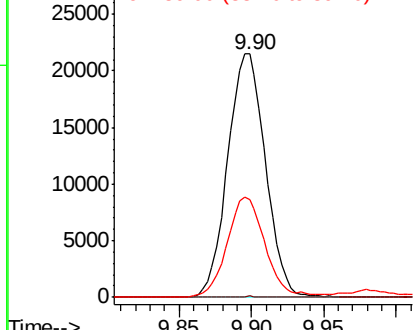
cis-1,3-Dichloropropene
 Concen: 5.920 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	24.7	37.1#
39	40.1	43.5	65.3#



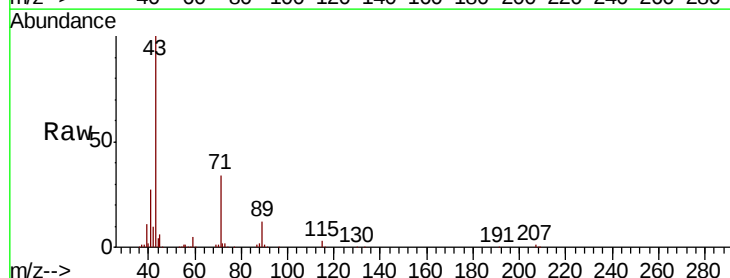
Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 76.90 (76.60 to 77.60): VNC
 Ion 39.00 (38.70 to 39.70): VNC



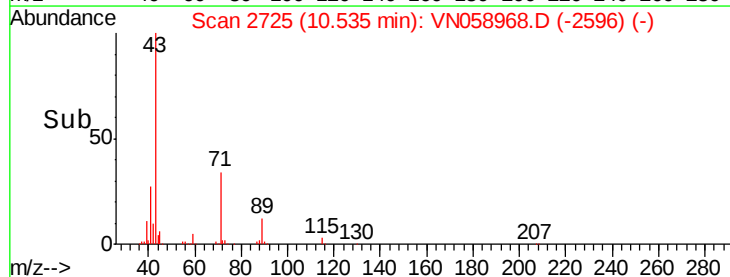
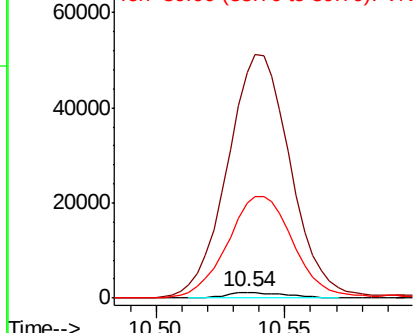
#56

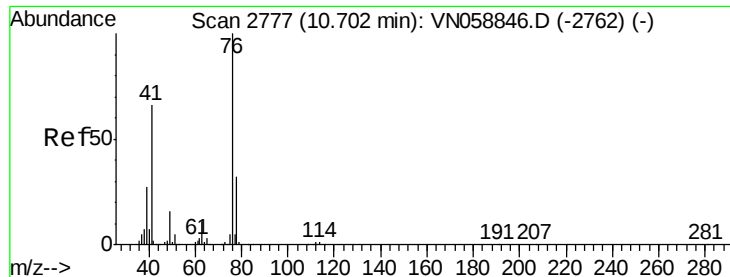
Ethyl methacrylate
 Concen: 2.386 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.11 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4619.8	57.2	85.8#
39	2006.8	31.0	46.4#



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

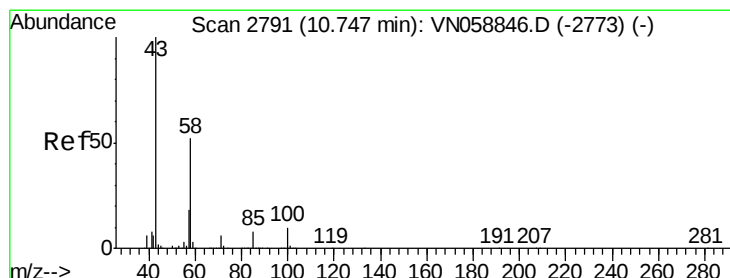
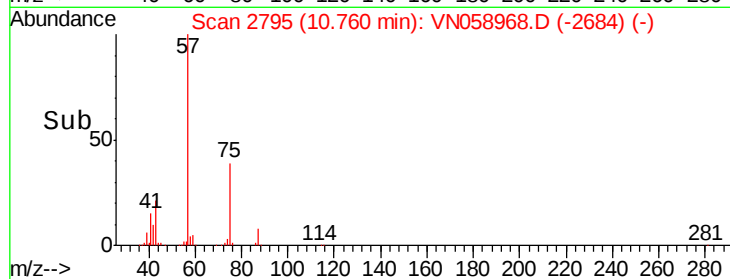
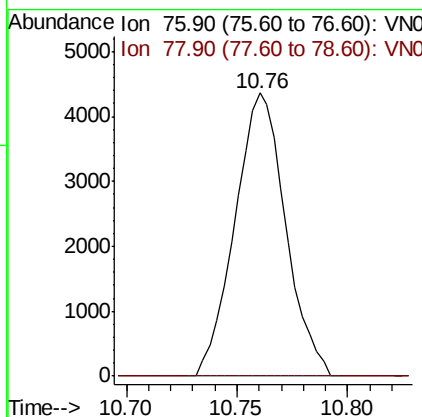
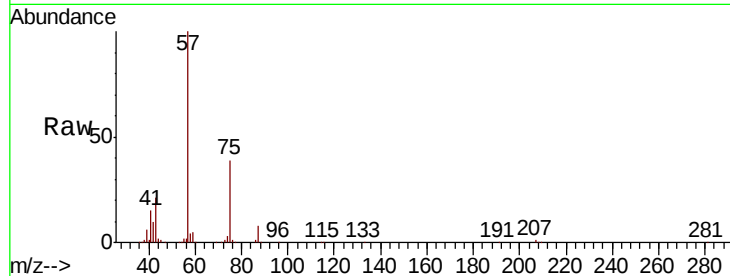




#57
 1,3-Dichloropropane
 Concen: 1.047 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

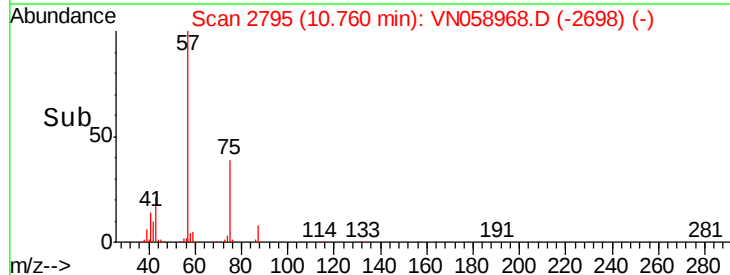
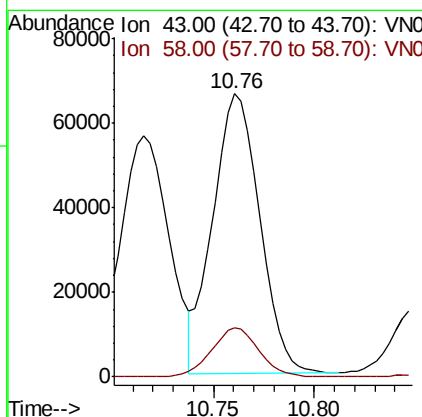
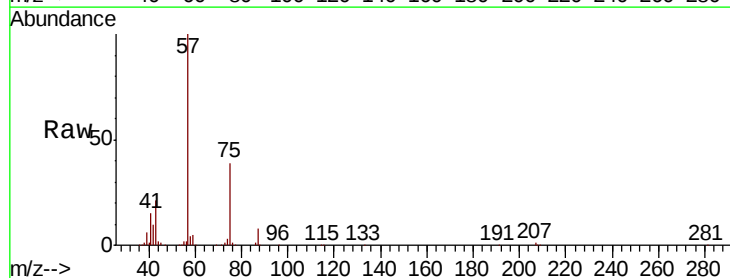
Instrument :
 MSVOA_N
 ClientSampleId :

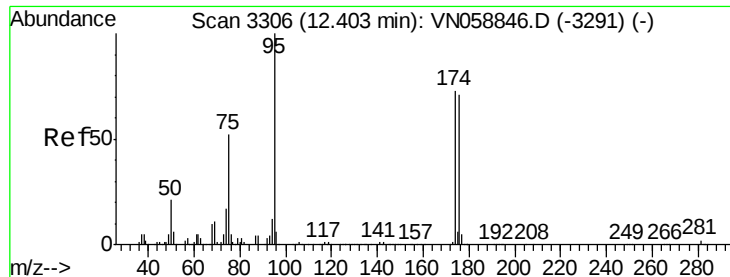
Tot Ion: 76 Resp: 6964
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 25.712 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Tgt Ion: 43 Resp: 107092
 Ion Ratio Lower Upper
 43 100
 58 17.9 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 43.688 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

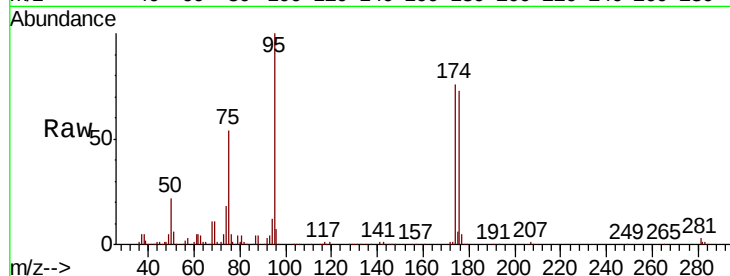
Tot Ion: 95 Resp: 211200

Ion Ratio Lower Upper

95 100

174 76.3 0.0 147.6

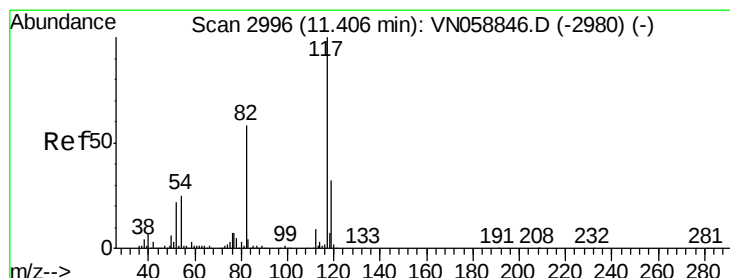
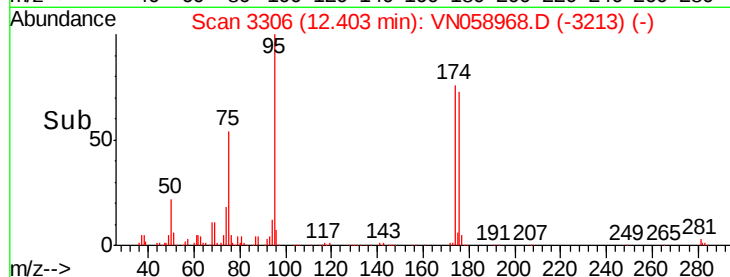
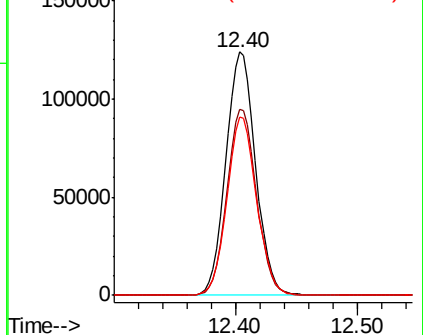
176 73.2 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

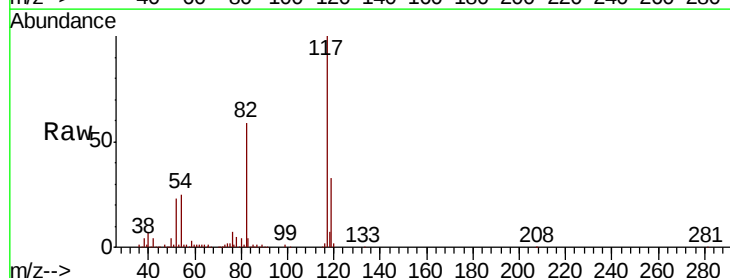
Tgt Ion: 117 Resp: 482926

Ion Ratio Lower Upper

117 100

82 58.7 46.6 69.8

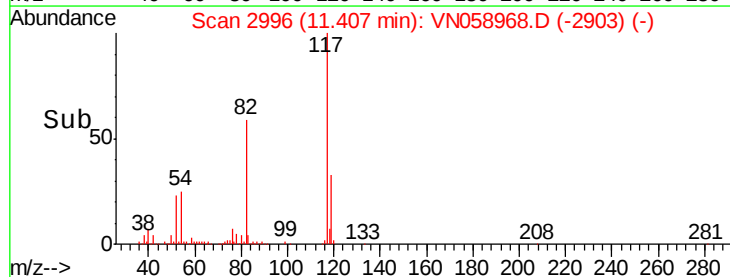
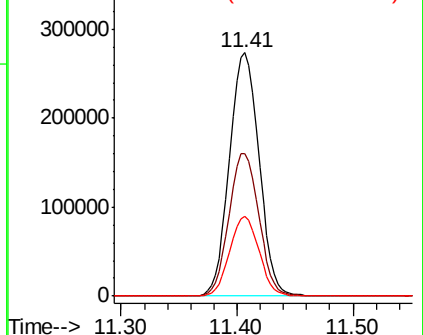
119 32.9 25.6 38.4

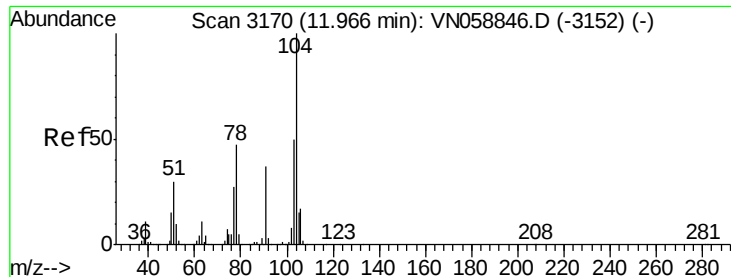


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

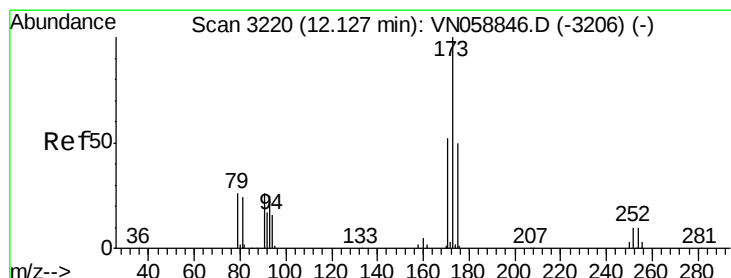
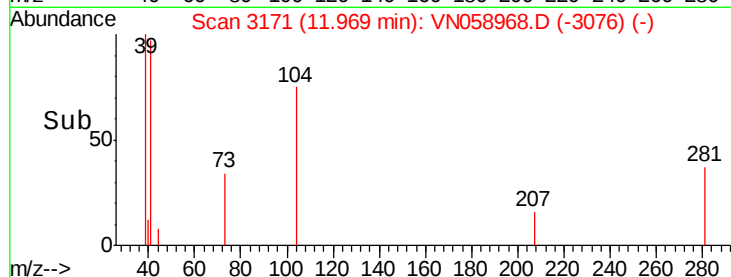
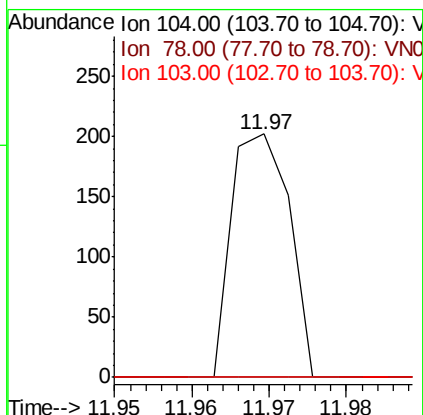
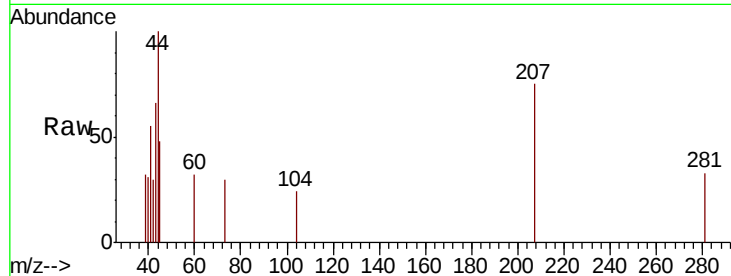




#70
Stvrene
Concen: 1.723 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

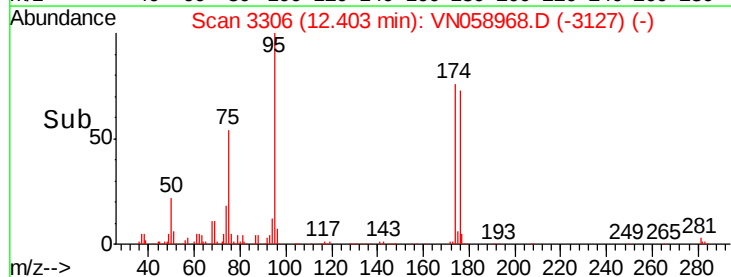
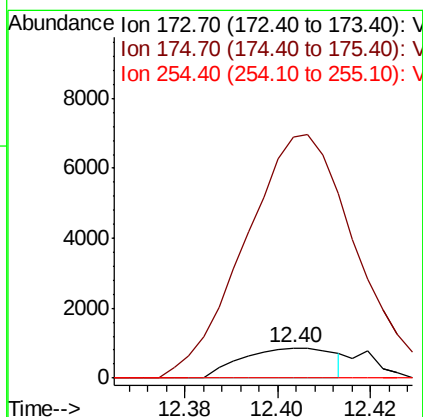
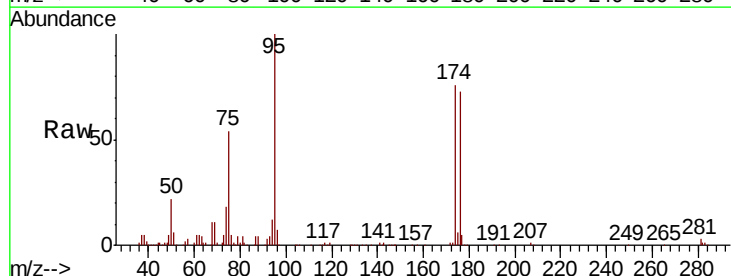
Instrument :
MSVOA_N
ClientSampled :

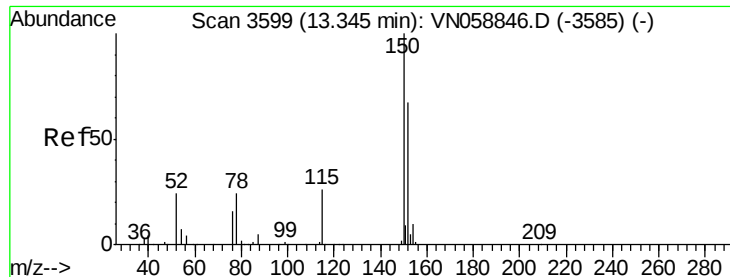
Tot Ion:104 Resp: 105
Ion Ratio Lower Upper
104 100
78 0.0 42.8 64.2#
103 0.0 44.3 66.5#



#71
Bromoform
Concen: 0.413 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN058968.D
Acq: 24 Oct 2019 17:46

Tgt Ion:173 Resp: 1189
Ion Ratio Lower Upper
173 100
175 786.3 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

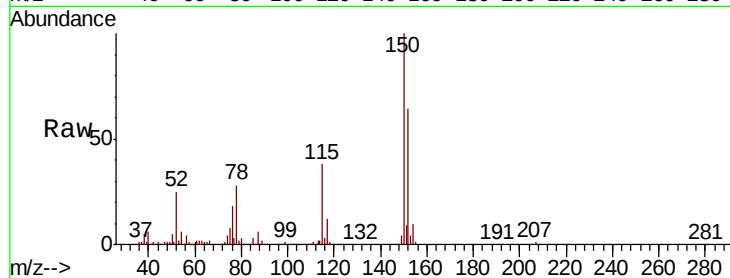
Tot Ion:152 Resp: 176543

Ion Ratio Lower Upper

152 100

115 60.7 30.5 91.5

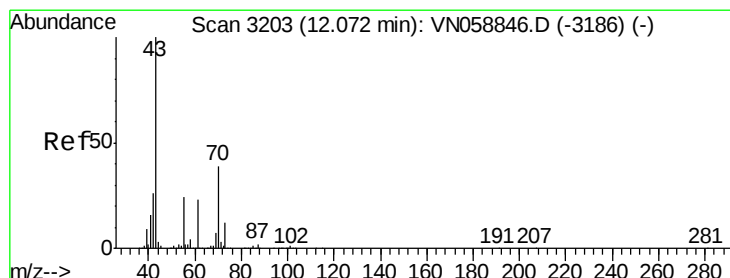
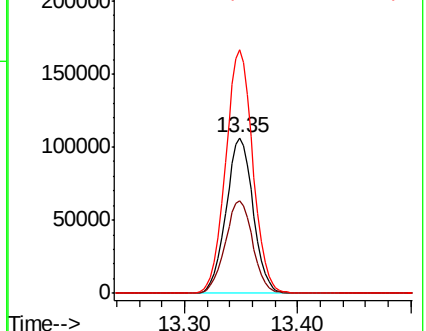
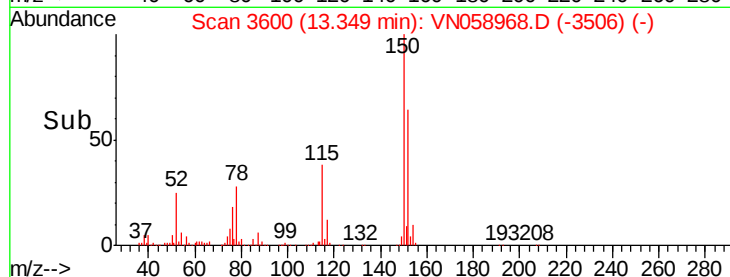
150 157.4 0.0 344.4



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: 0.789 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

Tgt Ion: 43 Resp: 4617

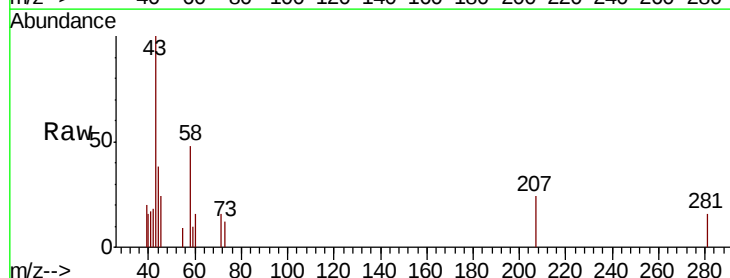
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 3.7 19.7 29.5#

61 0.0 18.2 27.4#

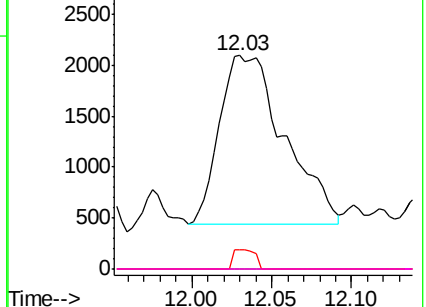
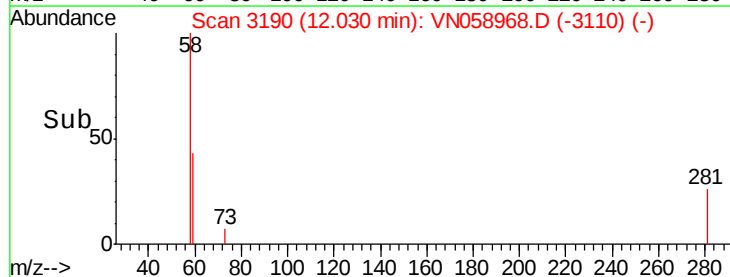


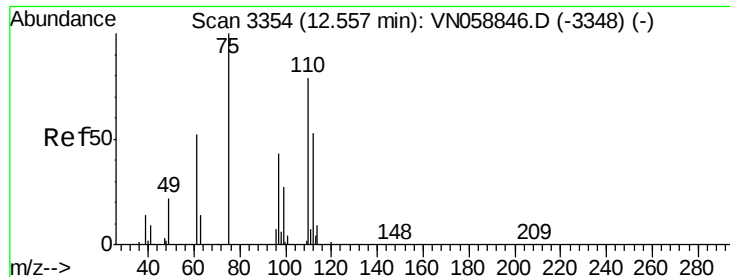
Abundance Ion 43.00 (42.70 to 43.70): VNO

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

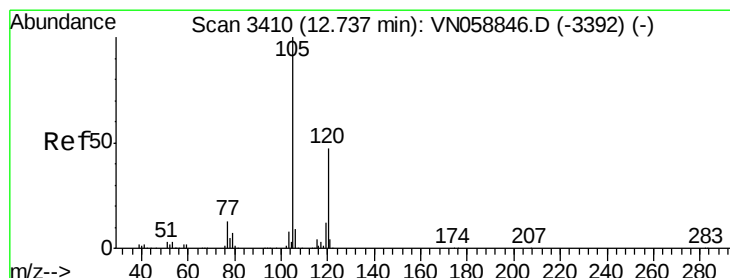
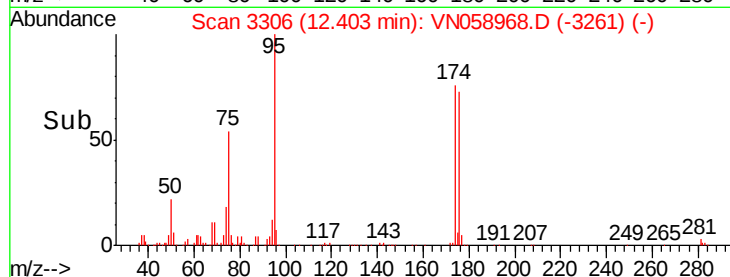
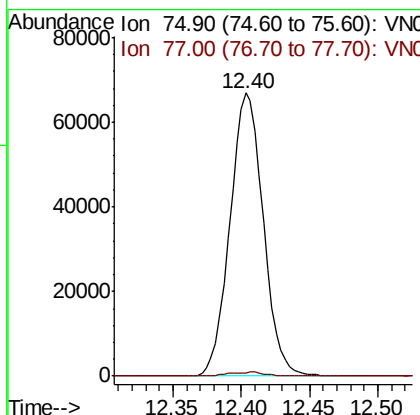
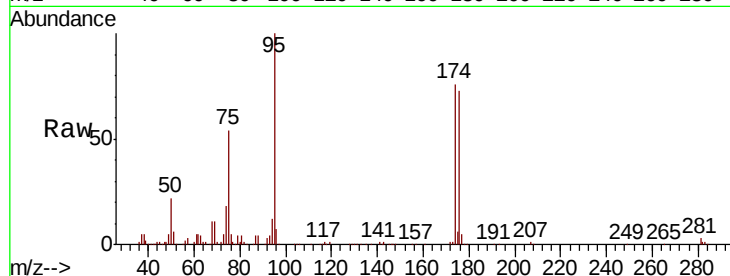




#76
 1,2,3-Trichloropropane
 Concen: 27.648 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

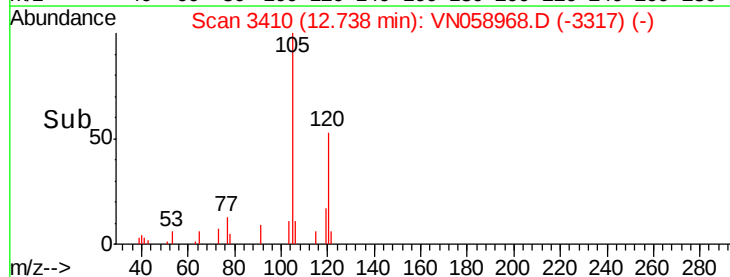
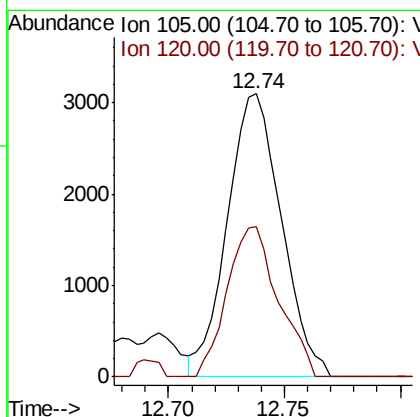
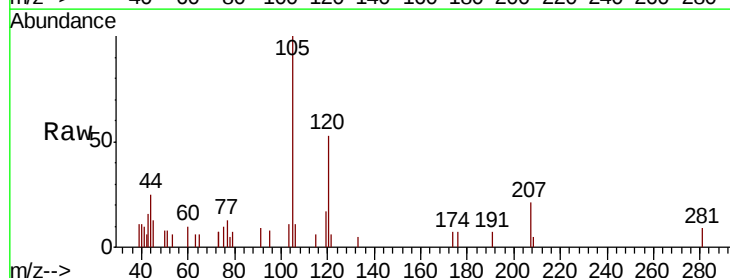
Instrument :
 MSVOA_N
 ClientSampleId :

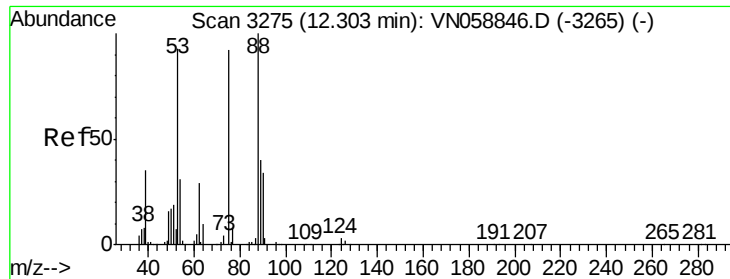
Tot Ion: 75 Resp: 113124
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.463 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058968.D
 Acq: 24 Oct 2019 17:46

Tgt Ion: 105 Resp: 5023
 Ion Ratio Lower Upper
 105 100
 120 50.2 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 72.025 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

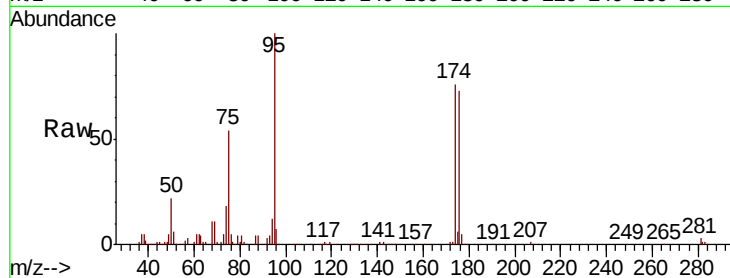
Tot Ion: 75 Resp: 113124

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

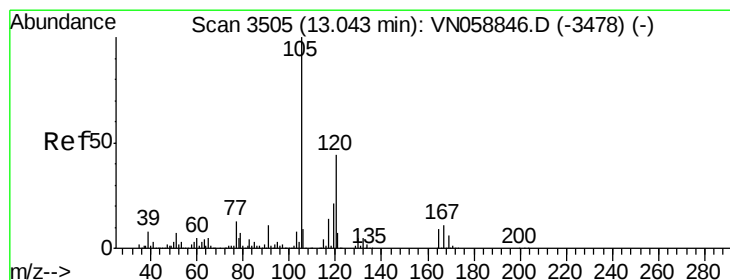
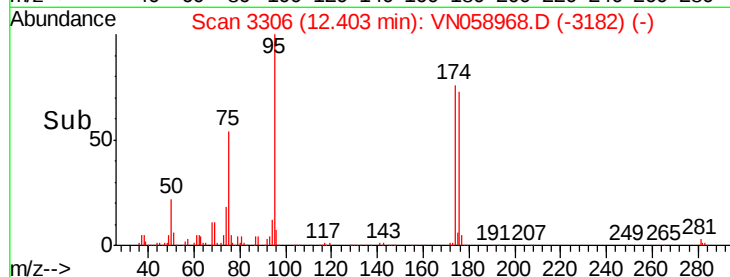
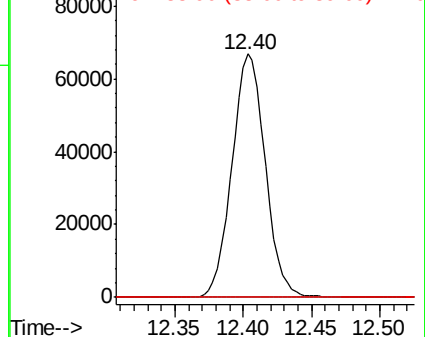
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN058846.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN058846.D (-3265) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.317 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN058968.D

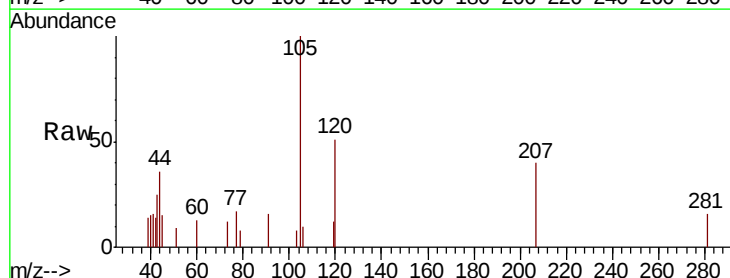
Acq: 24 Oct 2019 17:46

Tgt Ion: 105 Resp: 3388

Ion Ratio Lower Upper

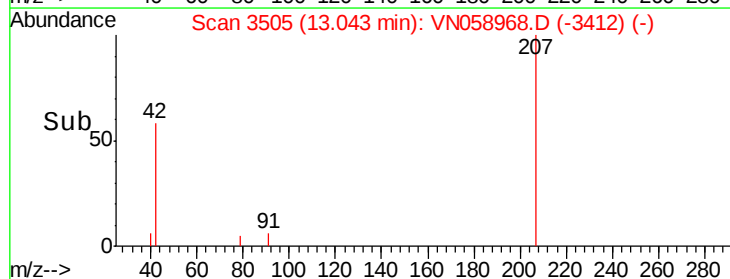
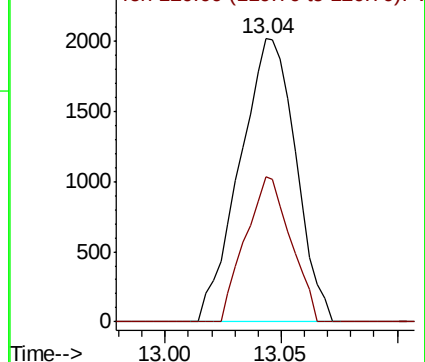
105 100

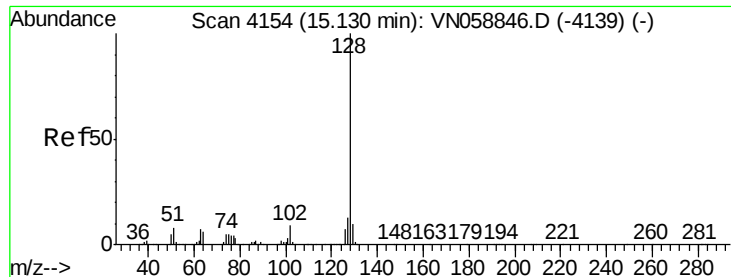
120 41.5 21.9 65.8



Abundance Ion 105.00 (104.70 to 105.70): VN058846.D (-3478) (-)

Ion 120.00 (119.70 to 120.70): VN058846.D (-3478) (-)





#95

Naphthalene

Concen: 2.625 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058968.D

Acq: 24 Oct 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

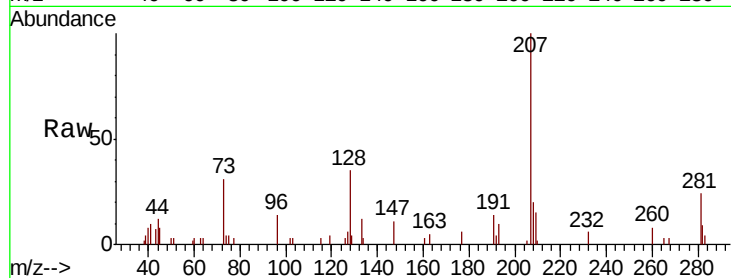
Tot Ion:128 Resp: 4232

Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.2

129 8.5 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

