

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058840.D
 Acq On : 17 Oct 2019 19:56
 Operator : JC/SP
 Sample : K5394-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:31:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	352699	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	570300	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	525877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	199398	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	265255	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	
35) Dibromofluoromethane	7.57	113	188678	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
50) Toluene-d8	10.09	98	731885	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.40	95	235905	44.24	ug/l	0.00
Spiked Amount			Recovery	=	88.48%	

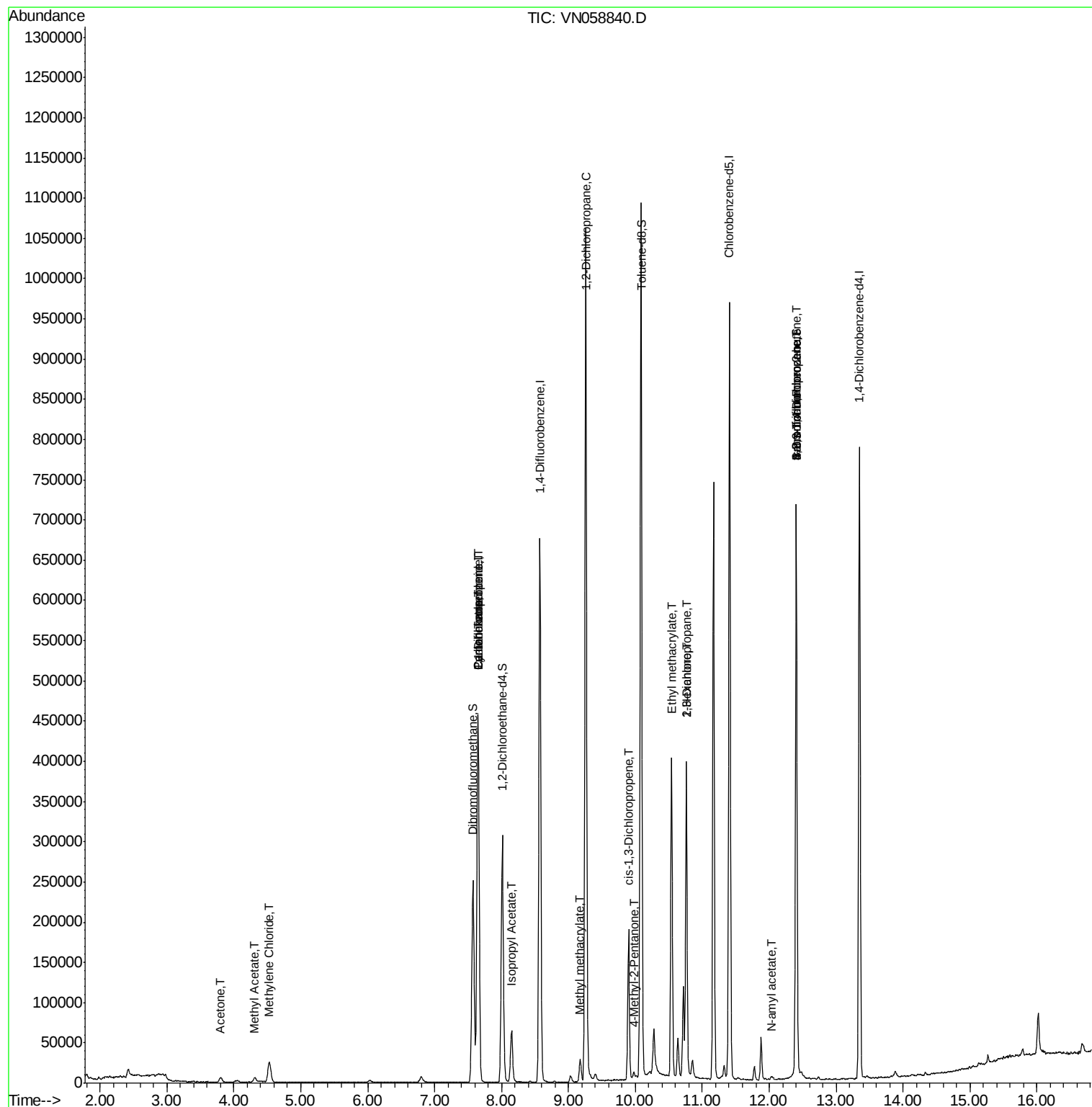
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	10811	5.289	ug/l	93
18) Methyl Acetate	4.31	43	9676	1.866	ug/l	99
20) Methylene Chloride	4.53	84	18749	4.389	ug/l	92
31) Cyclohexane	7.64	56	9217	1.273	ug/l #	25
36) 1,1-Dichloropropene	7.65	75	30521	5.293	ug/l #	51
38) Carbon Tetrachloride	7.65	117	37170	6.614	ug/l #	18
43) Isopropyl Acetate	8.15	43	78067	7.858	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1114	0.251	ug/l #	45
48) Methyl methacrylate	9.18	41	5036	1.118	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	6487	1.163	ug/l #	83
54) cis-1,3-Dichloropropene	9.90	75	30168	4.328	ug/l #	69
56) Ethyl methacrylate	10.54	69	1941	0.320	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3733	0.528	ug/l #	47
59) 2-Hexanone	10.76	43	60008	13.918	ug/l #	53
71) Bromoform	12.41	173	1364	0.471	ug/l #	1
74) N-amyl acetate	12.03	43	2551	0.393	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	124115	28.374	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	124115	76.004	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

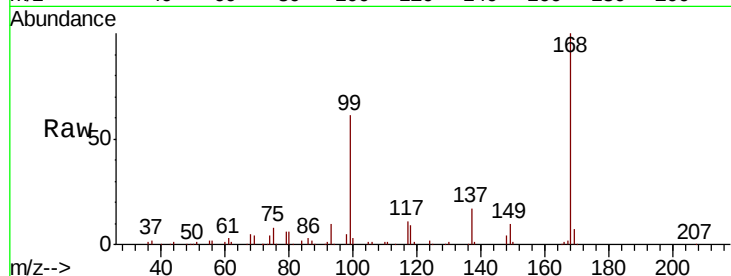
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 352699

Ion Ratio Lower Upper

168 100

99 61.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

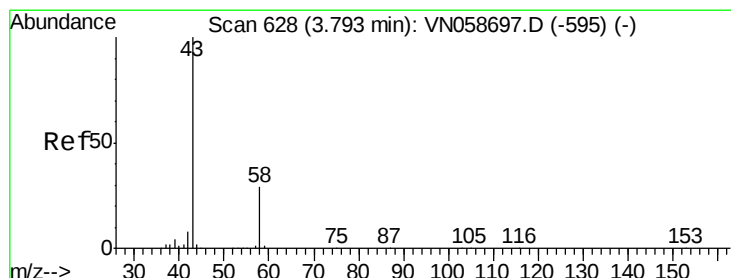
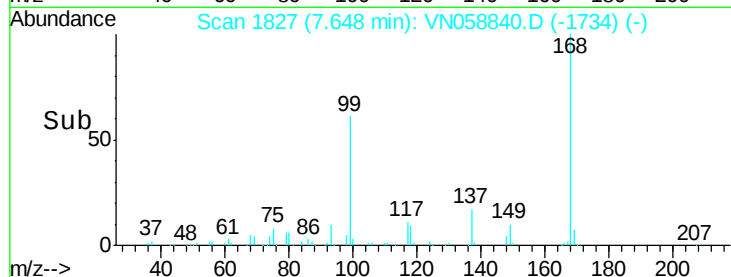
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 5.289 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058840.D

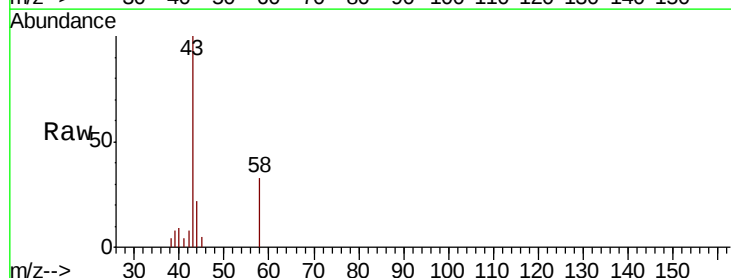
Acq: 17 Oct 2019 19:56

Tgt Ion: 43 Resp: 10811

Ion Ratio Lower Upper

43 100

58 33.1 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

4000

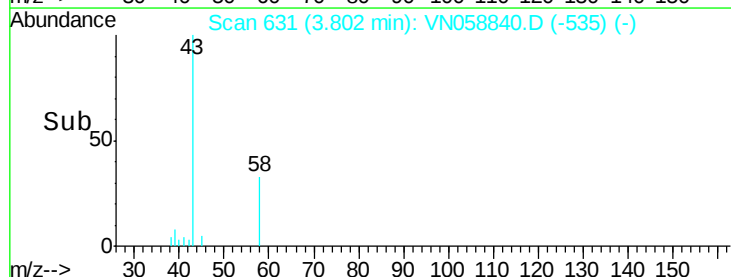
3000

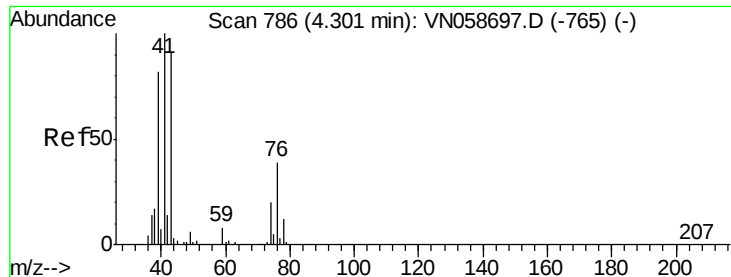
2000

1000

0

Time-->

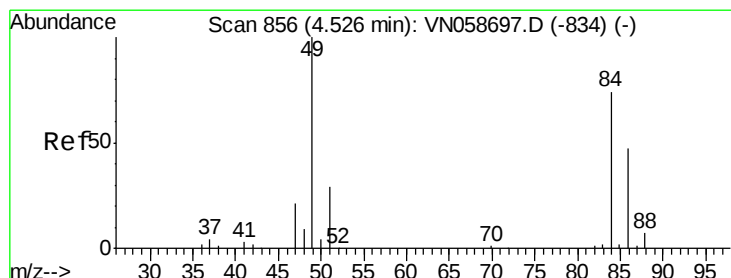
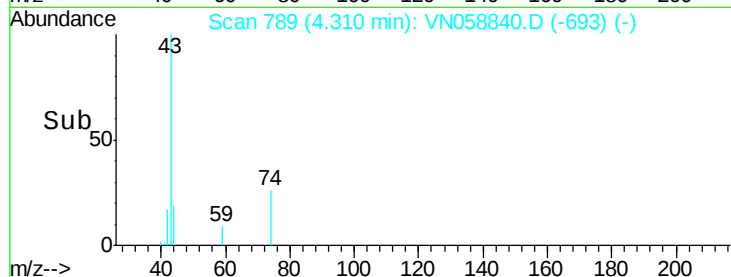
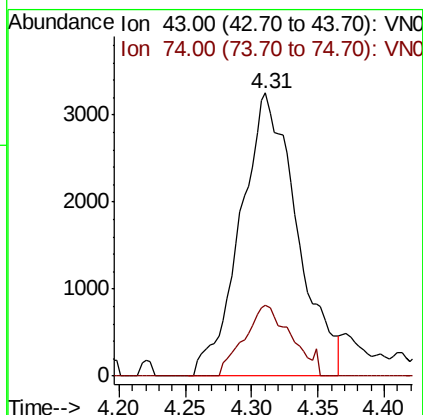
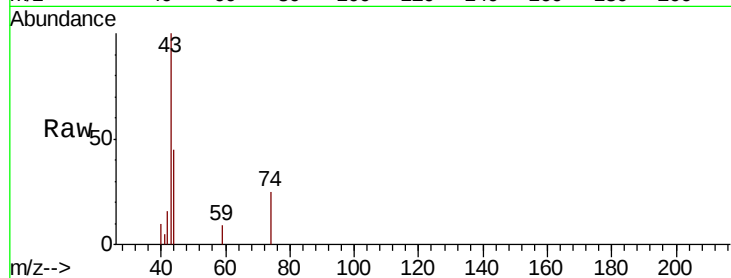




#18
Methyl Acetate
Concen: 1.866 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058840.D
Acq: 17 Oct 2019 19:56

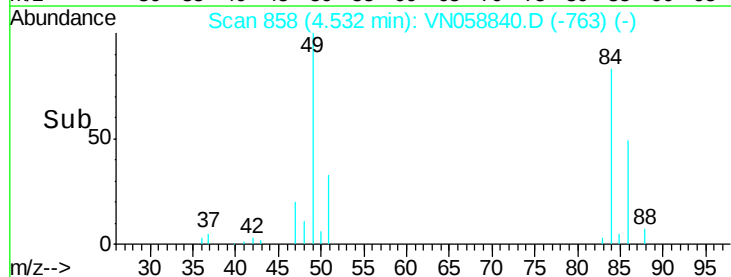
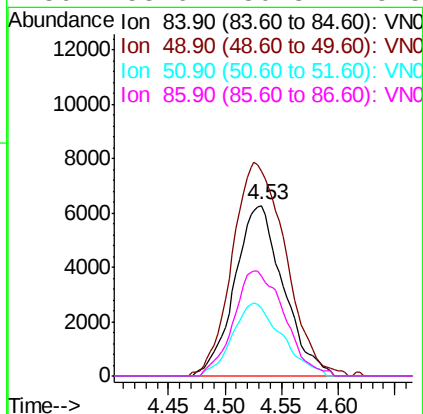
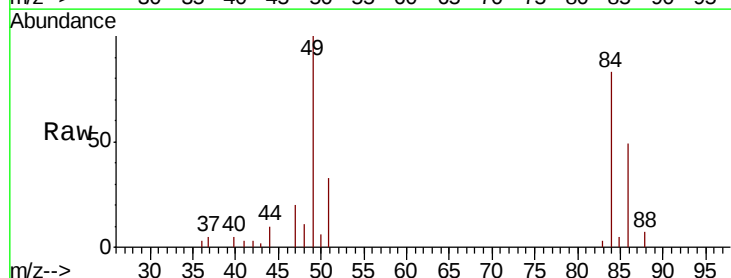
Instrument :
MSVOA_N
ClientSampled :

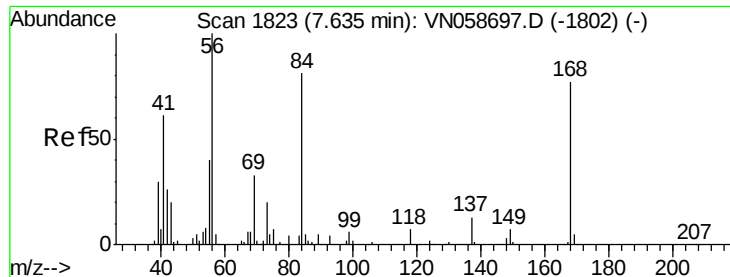
Tot Ion: 43 Resp: 9676
Ion Ratio Lower Upper
43 100
74 20.9 17.2 25.8



#20
Methylene Chloride
Concen: 4.389 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058840.D
Acq: 17 Oct 2019 19:56

Tgt Ion: 84 Resp: 18749
Ion Ratio Lower Upper
84 100
49 120.3 107.6 161.4
51 39.5 31.4 47.0
86 58.6 50.3 75.5





#31

Cyclohexane

Concen: 1.273 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :
MSVOA_N
ClientSampled :

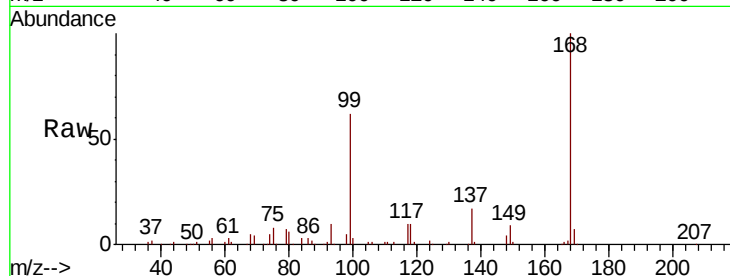
Tot Ion: 56 Resp: 9217

Ion Ratio Lower Upper

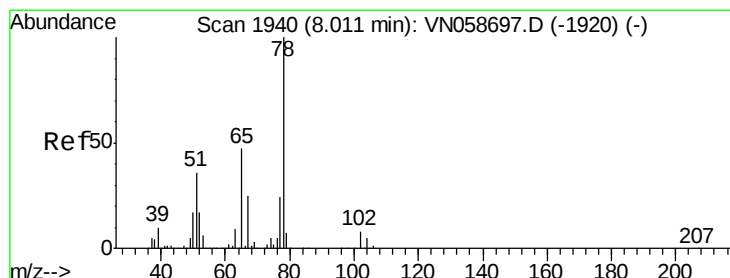
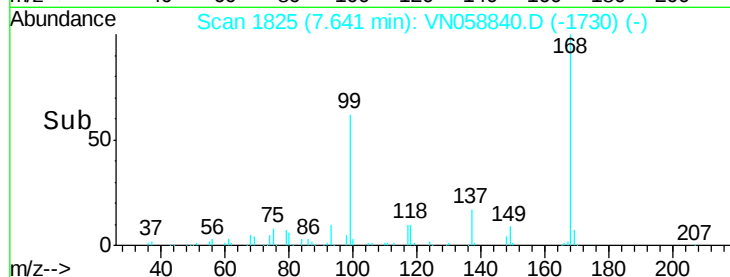
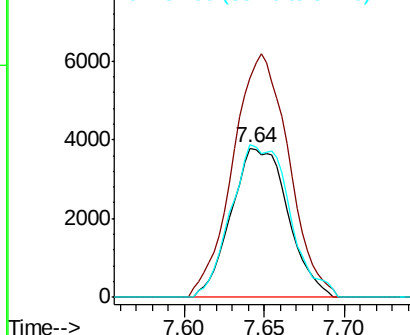
56 100

69 146.5 26.2 39.4#

84 102.6 64.9 97.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.720 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058840.D

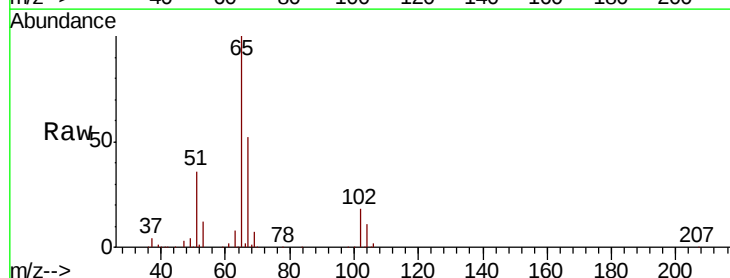
Acq: 17 Oct 2019 19:56

Tgt Ion: 65 Resp: 265255

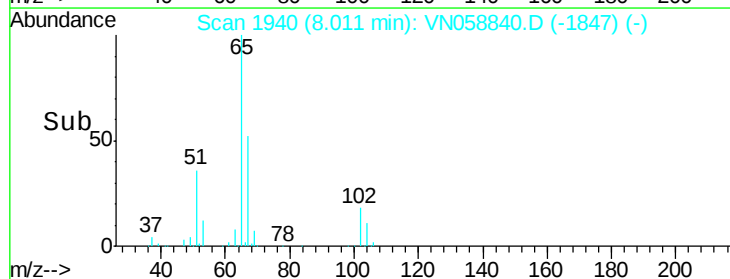
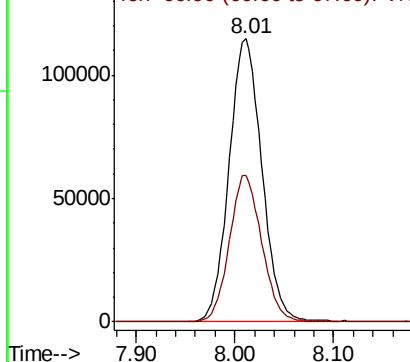
Ion Ratio Lower Upper

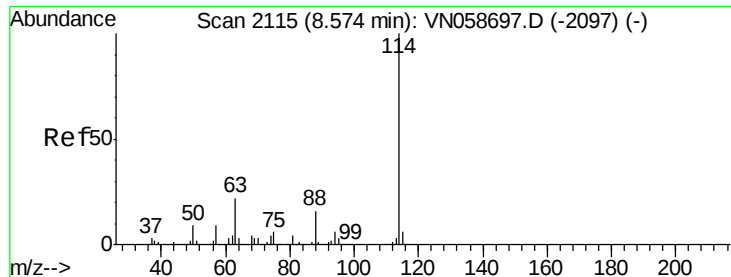
65 100

67 51.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

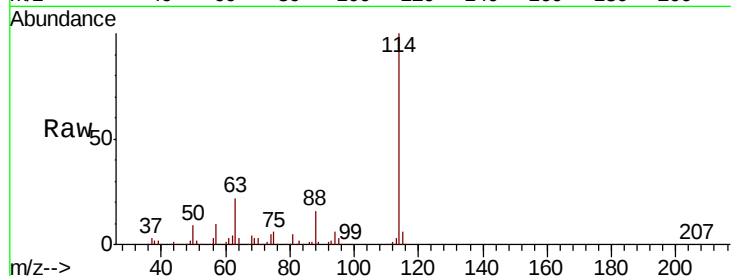




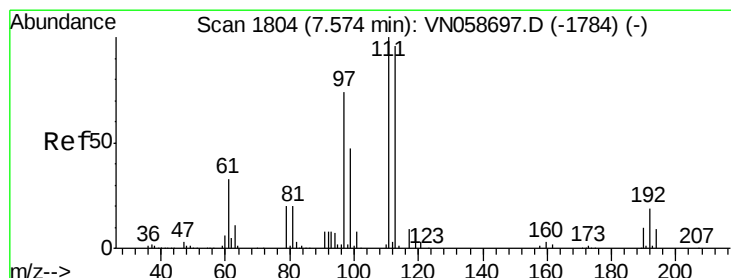
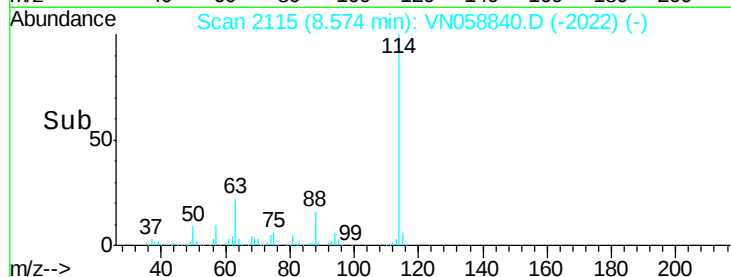
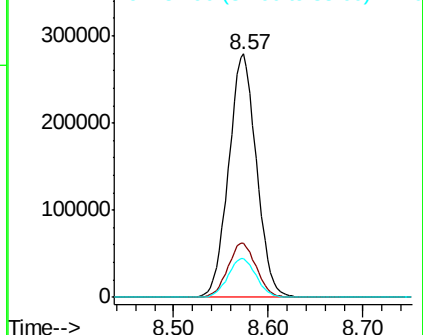
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058840.D
 Acq: 17 Oct 2019 19:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.8
88	15.7	0.0	32.0

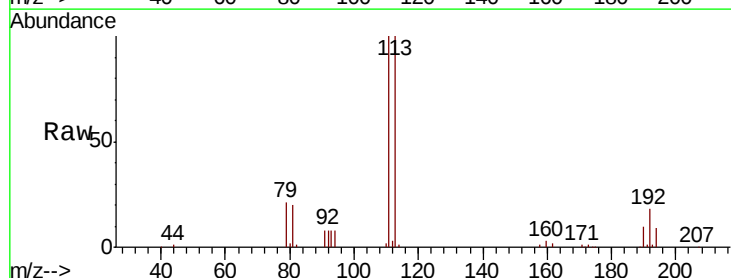


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

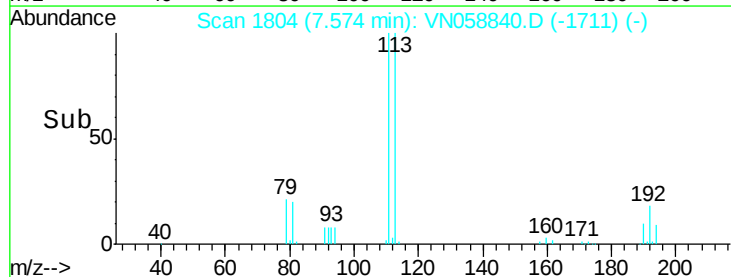
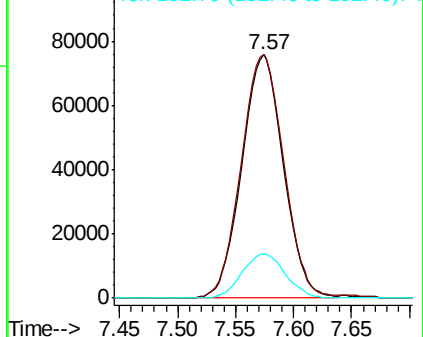


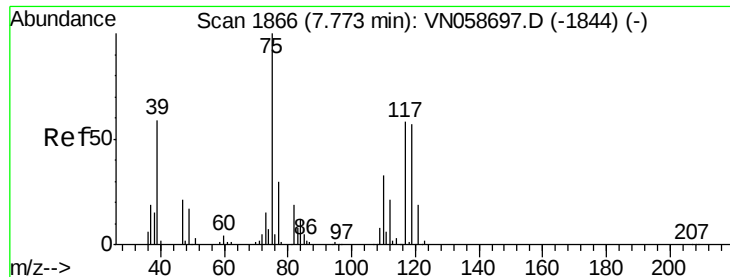
#35
 Dibromofluoromethane
 Concen: 53.562 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058840.D
 Acq: 17 Oct 2019 19:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.3	123.5
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: 5.293 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.12 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

ClientSampleId :

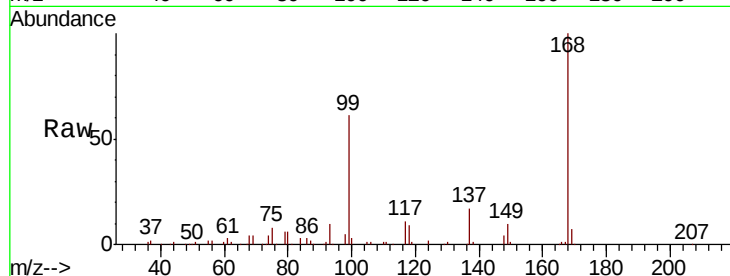
Tot Ion: 75 Resp: 30521

Ion Ratio Lower Upper

75 100

110 8.9 16.6 49.8#

77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058697.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN058697.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN058697.D (-1844) (-)

7.65

15000

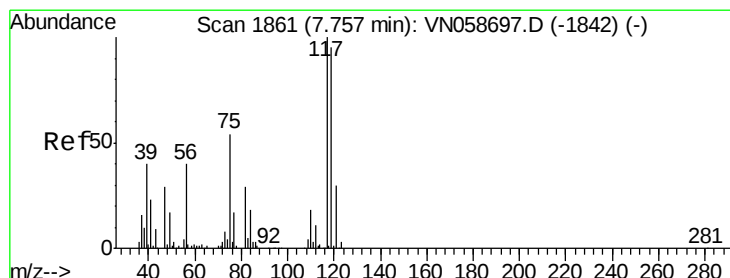
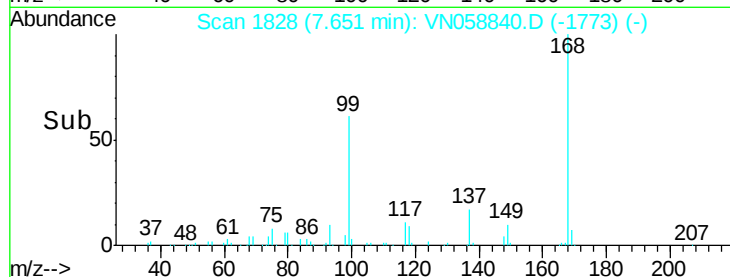
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 6.614 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

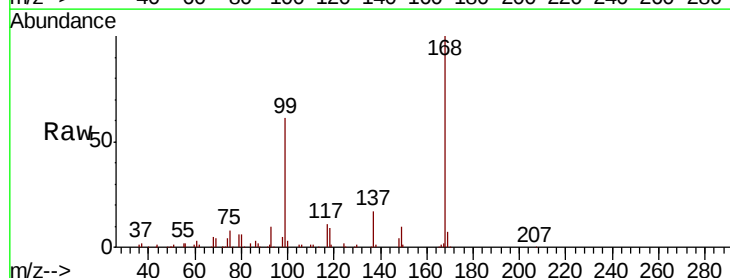
Tgt Ion: 117 Resp: 37170

Ion Ratio Lower Upper

117 100

119 6.6 75.7 113.5#

121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): VN058697.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN058697.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN058697.D (-1842) (-)

7.65

20000

15000

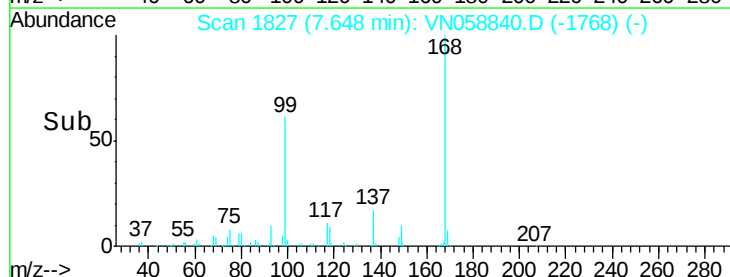
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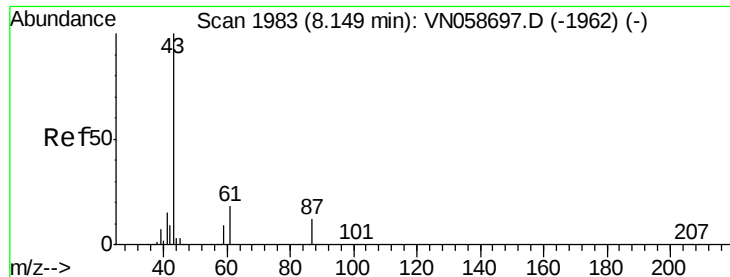
5000

0

7.55 7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 7.858 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

ClientSampleId :

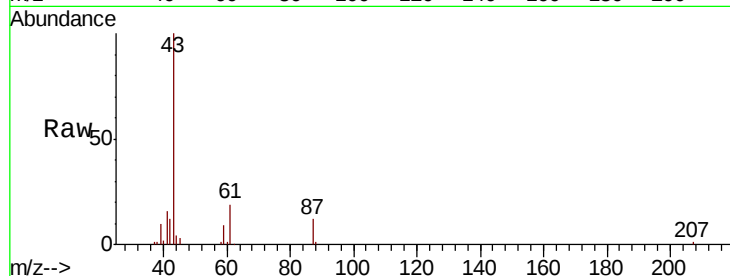
Tot Ion: 43 Resp: 78067

Ion Ratio Lower Upper

43 100

61 19.2 20.3 30.5#

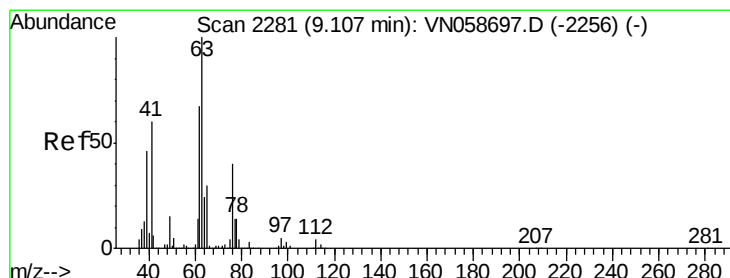
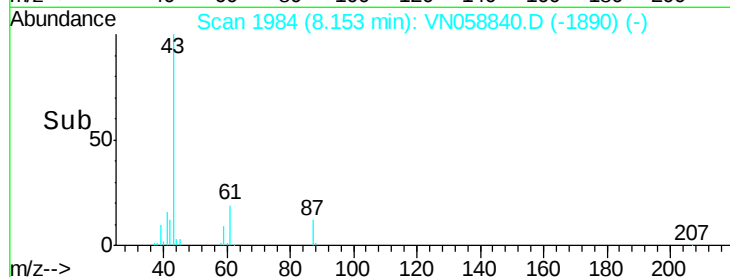
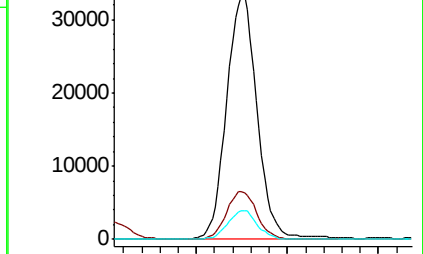
87 11.2 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058840.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058840.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058840.D (-1890) (-)



#45

1,2-Dichloropropane

Concen: 0.251 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058840.D

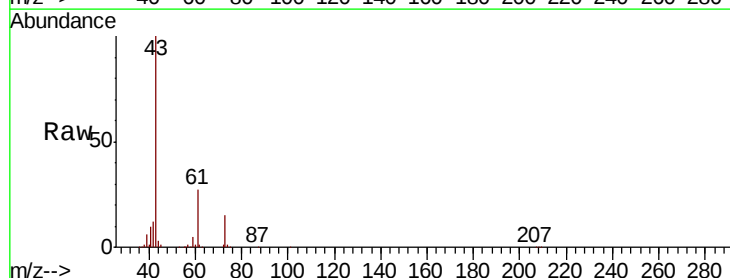
Acq: 17 Oct 2019 19:56

Tgt Ion: 63 Resp: 1114

Ion Ratio Lower Upper

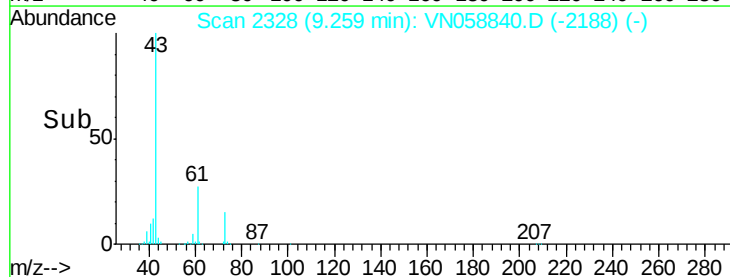
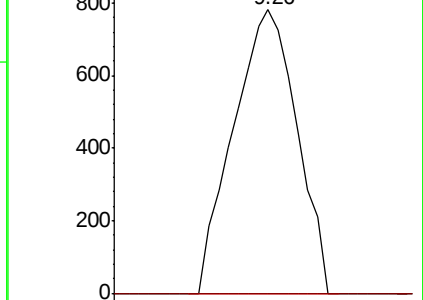
63 100

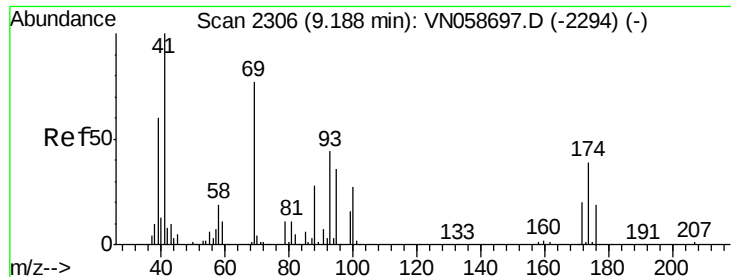
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN058840.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN058840.D (-2188) (-)

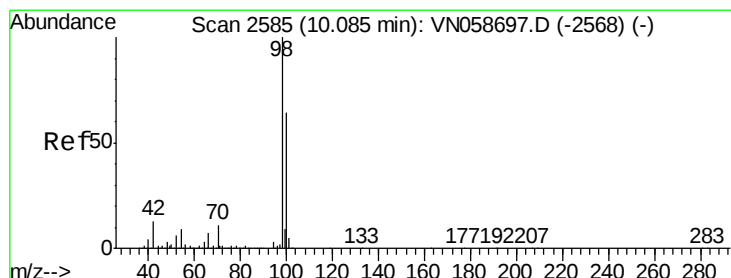
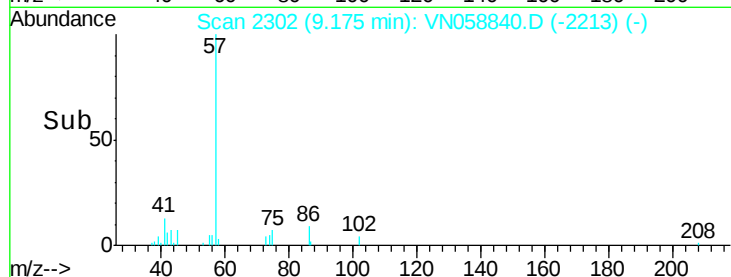
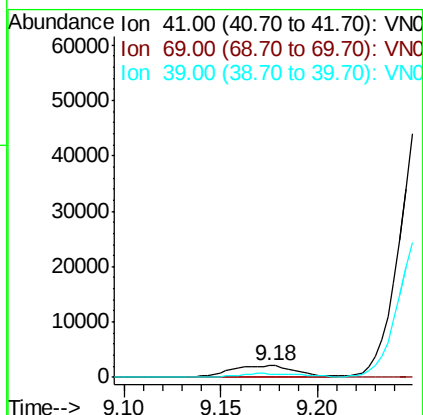
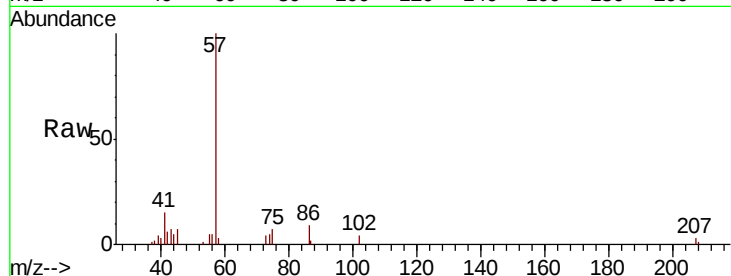




#48
Methvl methacrylate
Concen: 1.118 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.01 min
Lab File: VN058840.D
Acq: 17 Oct 2019 19:56

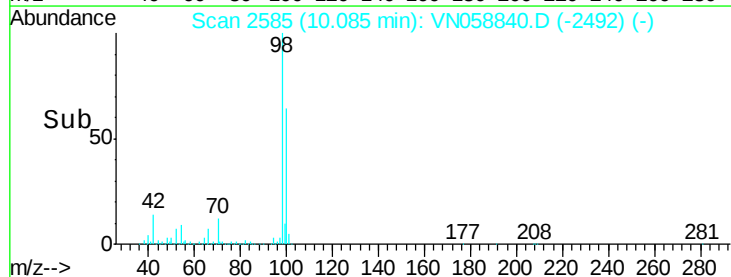
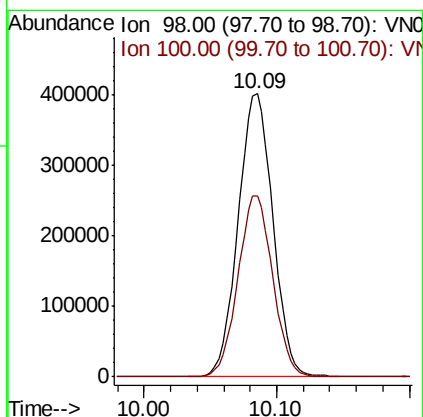
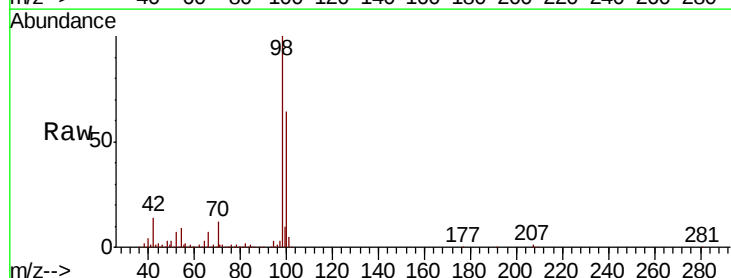
Instrument :
MSVOA_N
ClientSampleId :

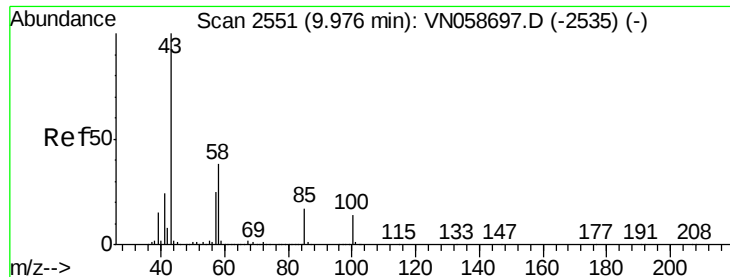
Tot Ion: 41 Resp: 5036
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#50
Toluene-d8
Concen: 51.957 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058840.D
Acq: 17 Oct 2019 19:56

Tgt Ion: 98 Resp: 731885
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.163 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

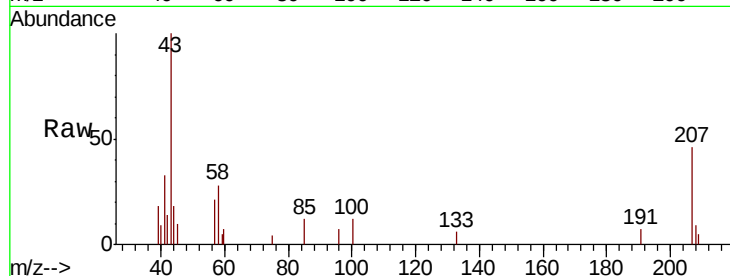
ClientSampleId :

Tot Ion: 43 Resp: 6487

Ion Ratio Lower Upper

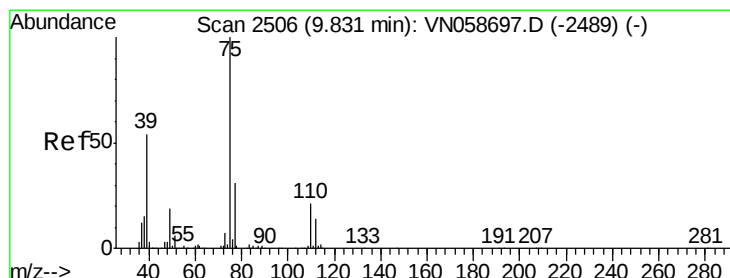
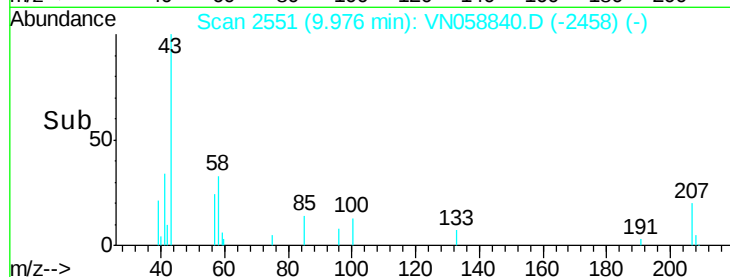
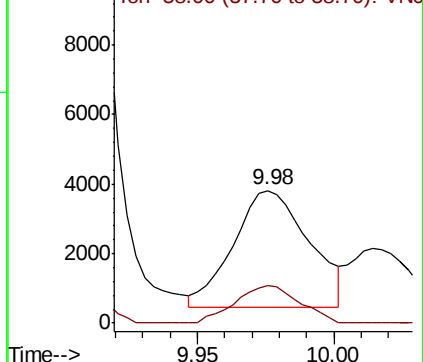
43 100

58 27.4 30.3 45.5#



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: 4.328 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

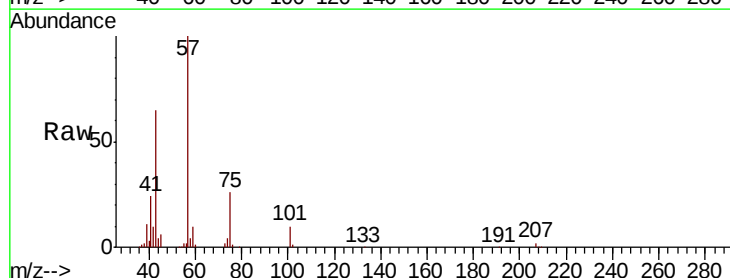
Tgt Ion: 75 Resp: 30168

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

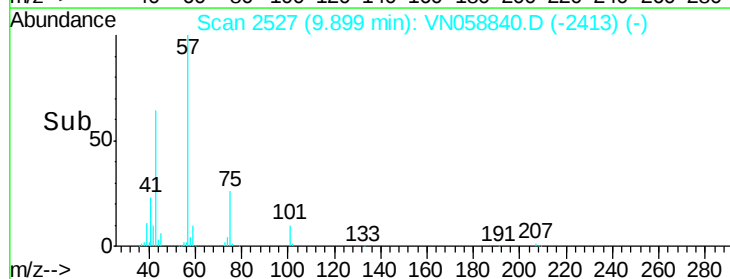
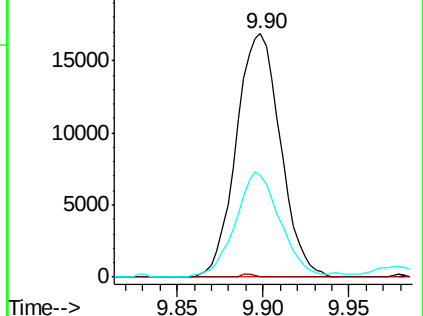
39 41.9 43.1 64.7#

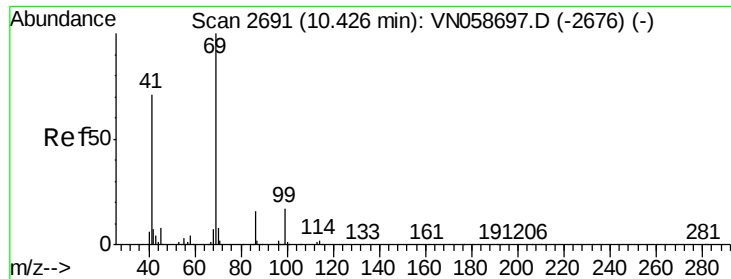


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.320 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

ClientSampled :

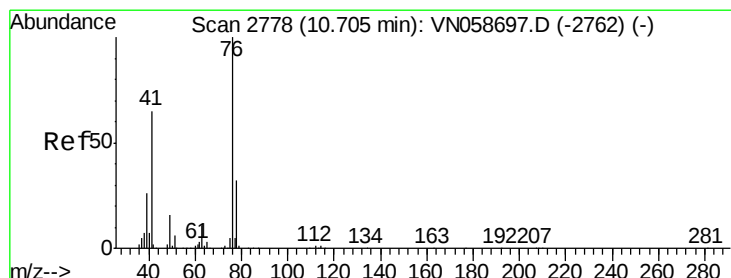
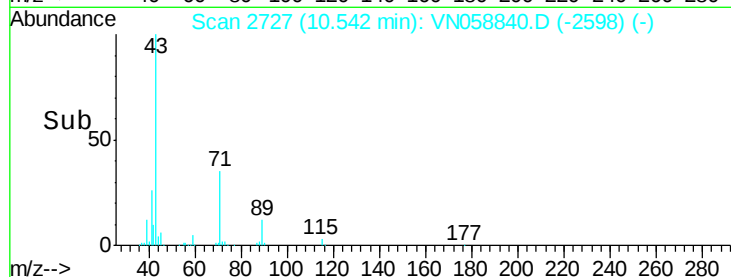
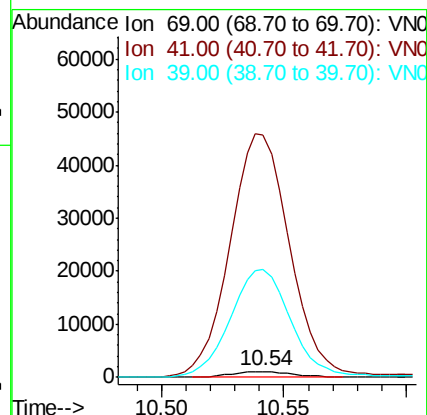
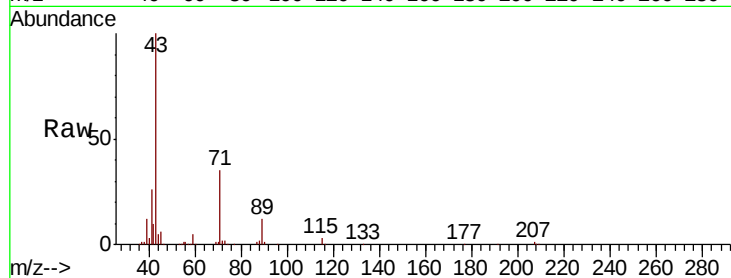
Tot Ion: 69 Resp: 1941

Ion Ratio Lower Upper

69 100

41 4047.1 56.8 85.2#

39 1817.6 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.528 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058840.D

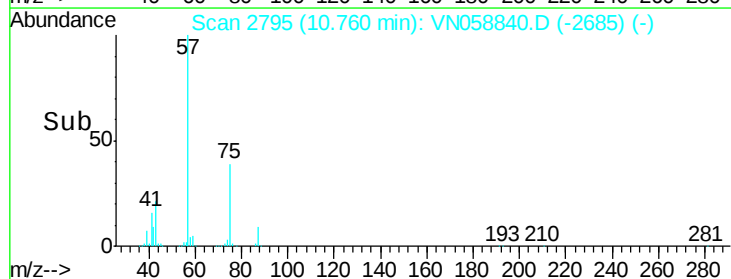
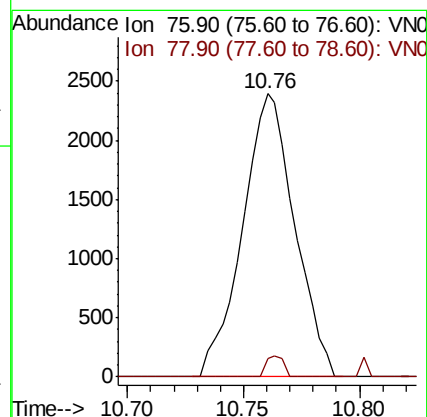
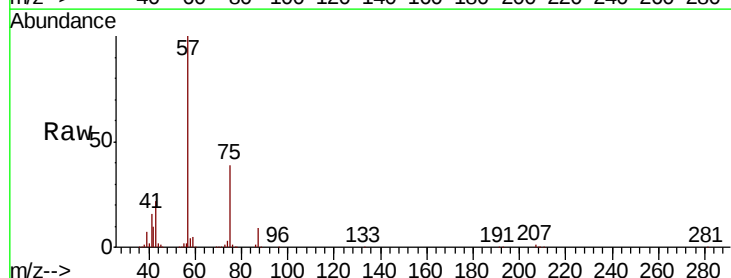
Acq: 17 Oct 2019 19:56

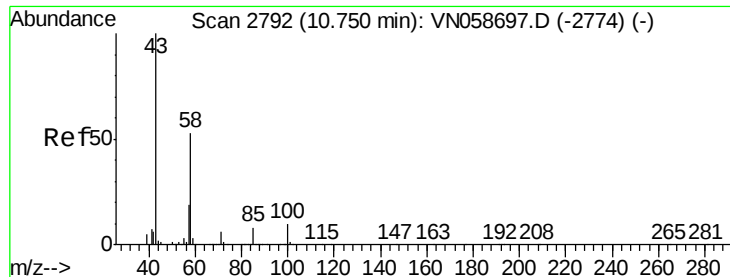
Tgt Ion: 76 Resp: 3733

Ion Ratio Lower Upper

76 100

78 2.5 25.9 38.9#





#59

2-Hexanone

Concen: 13.918 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

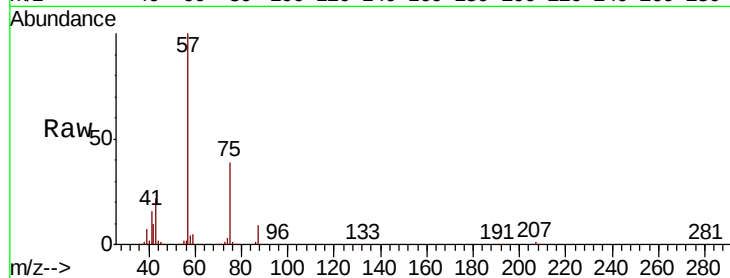
ClientSampleId :

Tot Ion: 43 Resp: 60008

Ion Ratio Lower Upper

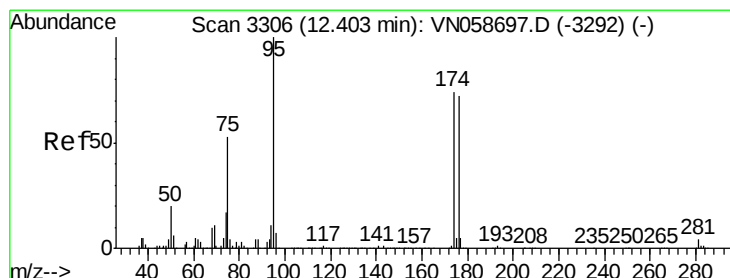
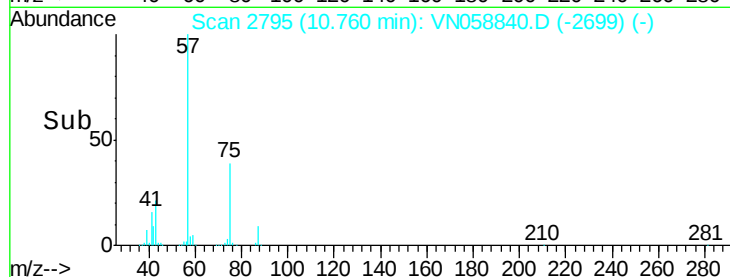
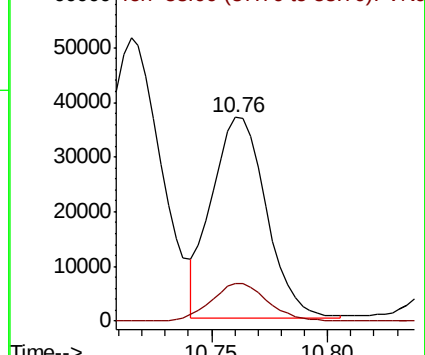
43 100

58 19.5 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.242 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

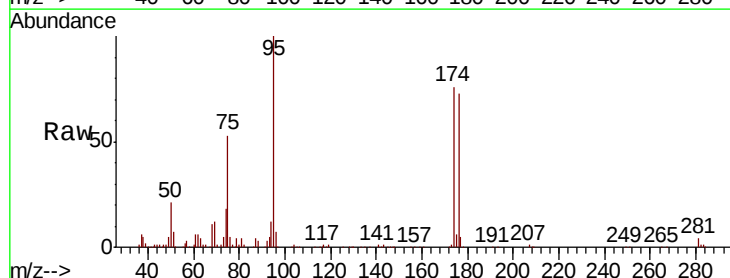
Tgt Ion: 95 Resp: 235905

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.4

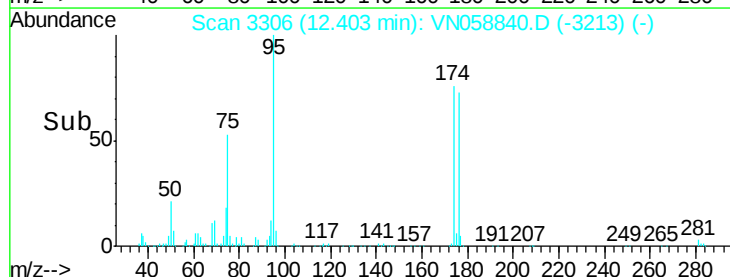
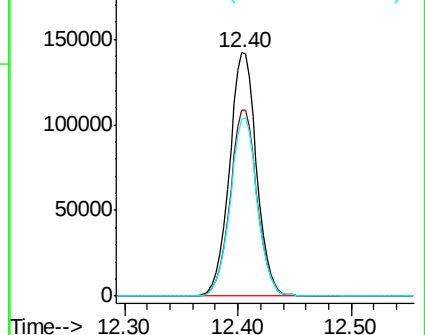
176 73.2 0.0 146.8

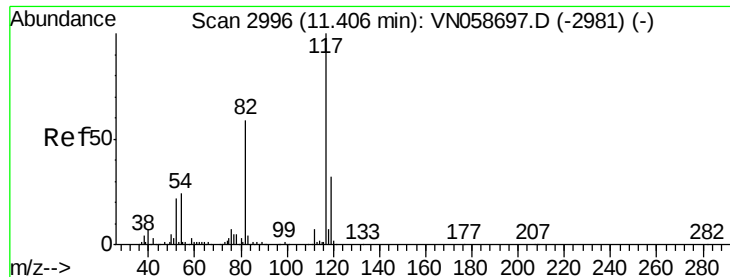


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

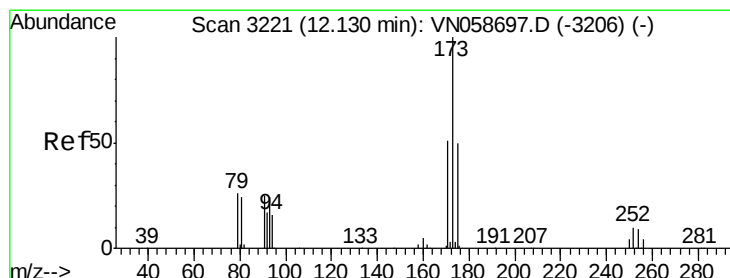
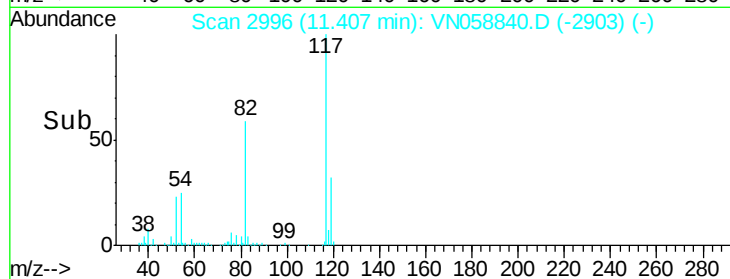
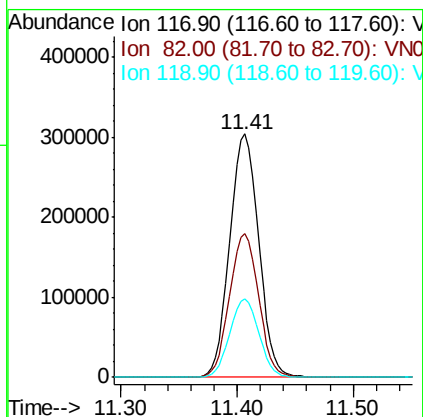
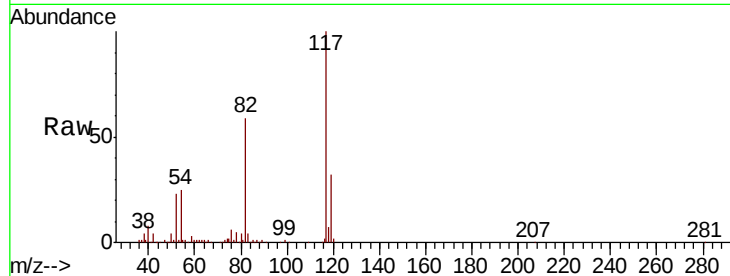




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058840.D
Acq: 17 Oct 2019 19:56

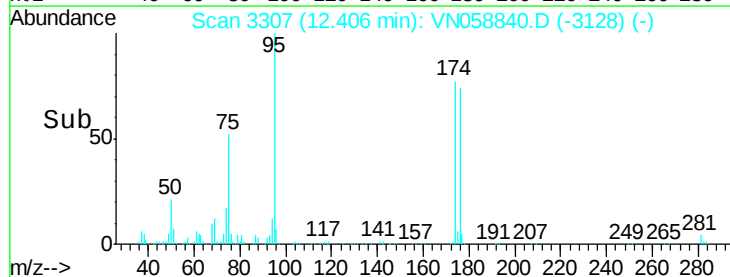
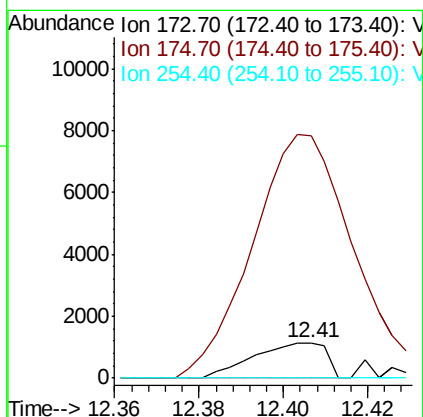
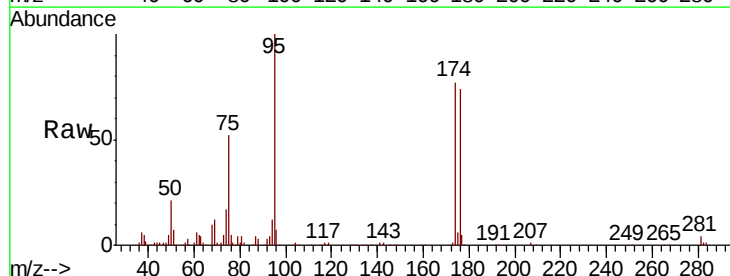
Instrument :
MSVOA_N
ClientSampleId :

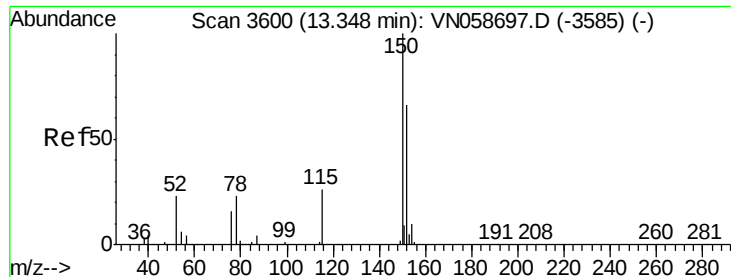
Tot Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.0	70.4
119	32.2	25.4	38.2



#71
Bromoform
Concen: 0.471 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058840.D
Acq: 17 Oct 2019 19:56

Tgt Ion	Ratio	Lower	Upper
173	100		
175	836.9	24.6	73.8#
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: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

ClientSampleId :

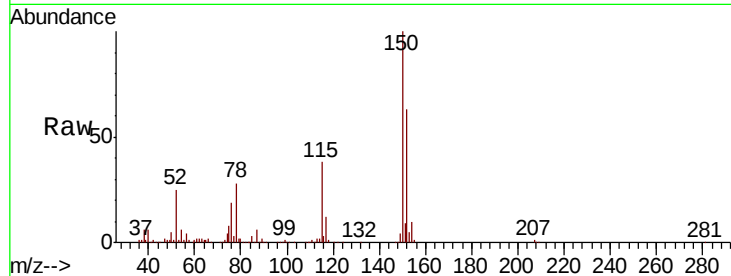
Tot Ion:152 Resp: 199398

Ion Ratio Lower Upper

152 100

115 61.8 30.4 91.2

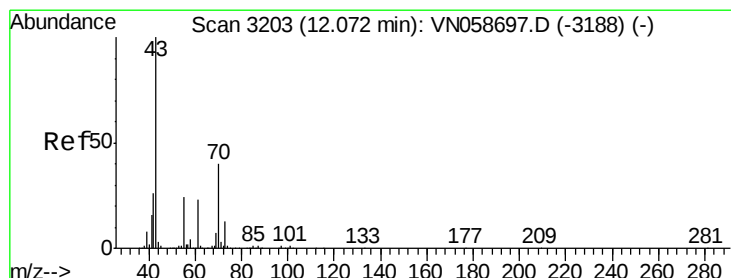
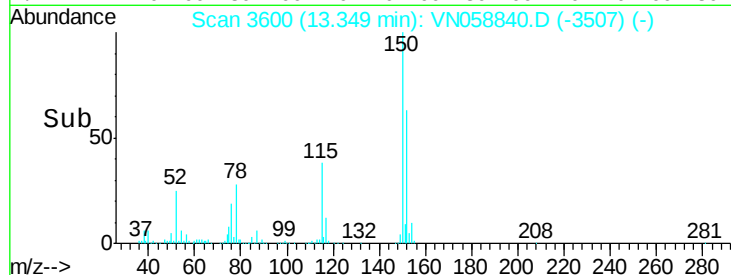
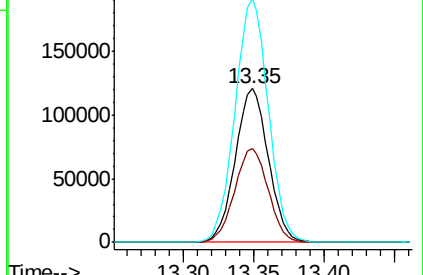
150 159.2 0.0 345.4



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: 0.393 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Tgt Ion: 43 Resp: 2551

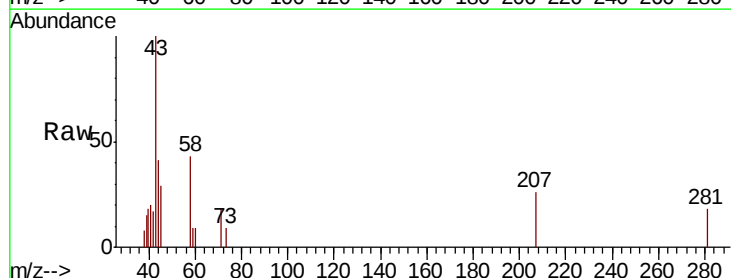
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 0.0 19.6 29.4#

61 0.0 18.6 28.0#

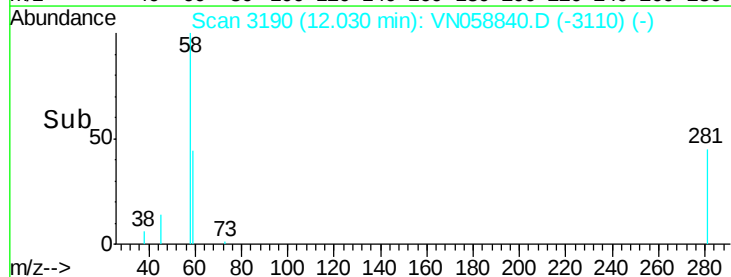
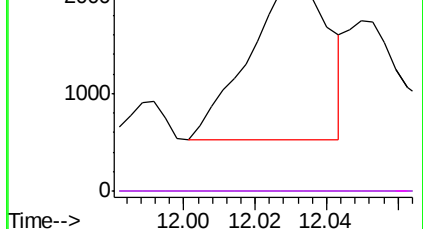


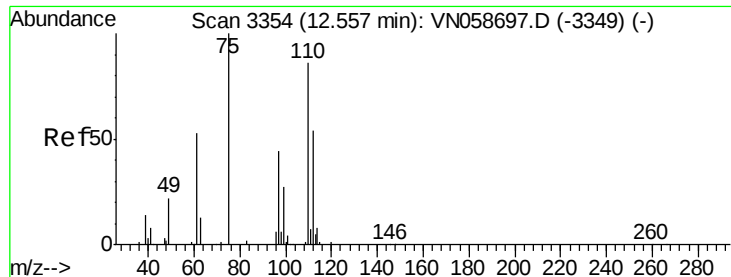
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.374 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Instrument :

MSVOA_N

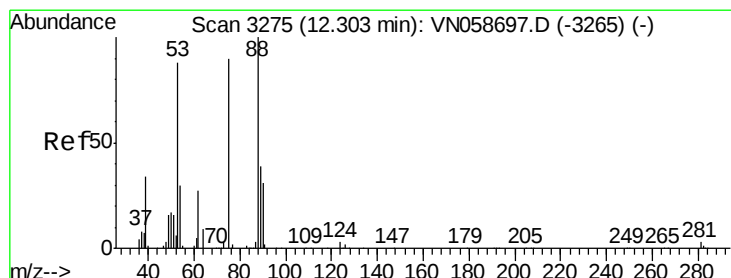
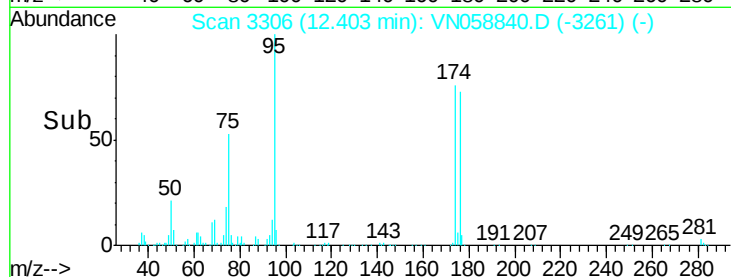
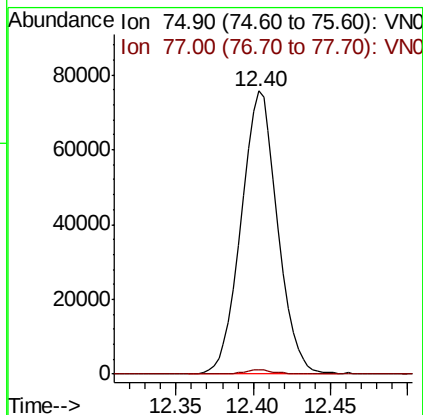
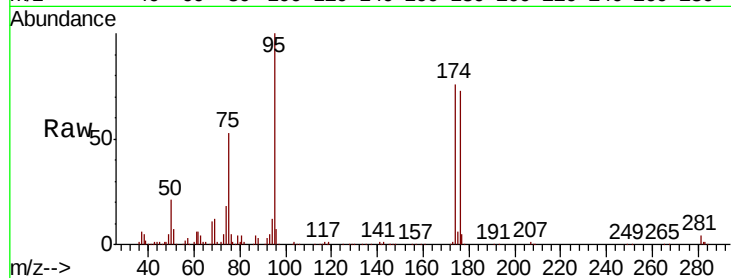
ClientSampleId :

Tot Ion: 75 Resp: 124115

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.004 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058840.D

Acq: 17 Oct 2019 19:56

Tgt Ion: 75 Resp: 124115

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#

