

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058838.D
 Acq On : 17 Oct 2019 19:12
 Operator : JC/SP
 Sample : K5394-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

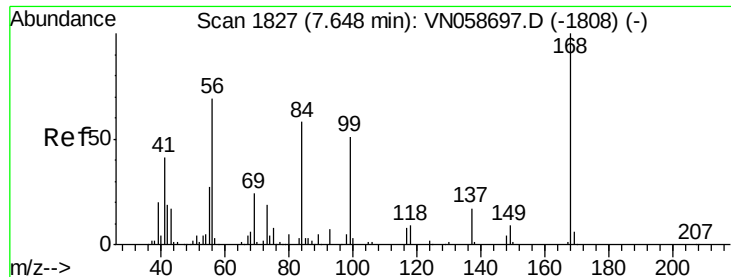
Quant Time: Oct 18 01:30:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	373459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	609208	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	556170	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208952	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	282225	53.98	ug/l	0.00
Spiked Amount			Recovery	=	107.96%	
35) Dibromofluoromethane	7.57	113	200832	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	
50) Toluene-d8	10.09	98	777169	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.40	95	242612	42.59	ug/l	0.00
Spiked Amount			Recovery	=	85.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	248	0.293	ug/l #	72
16) Acetone	3.79	43	10763	4.972	ug/l	97
18) Methyl Acetate	4.30	43	3682	0.671	ug/l	94
20) Methylene Chloride	4.53	84	11448	2.531	ug/l	95
25) 2-Butanone	6.82	43	1000	0.320	ug/l #	50
31) Cyclohexane	7.65	56	8839	1.153	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32334	5.249	ug/l #	50
38) Carbon Tetrachloride	7.65	117	38667	6.441	ug/l #	16
43) Isopropyl Acetate	8.15	43	84969	8.007	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1708	0.361	ug/l #	45
48) Methyl methacrylate	9.18	41	4701	0.977	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	4865	0.816	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	26601	3.573	ug/l #	72
56) Ethyl methacrylate	10.54	69	1452	0.224	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3482	0.461	ug/l #	42
59) 2-Hexanone	10.76	43	51904	11.269	ug/l #	54
71) Bromoform	12.40	173	1557	0.509	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	131873	28.769	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131873	77.062	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

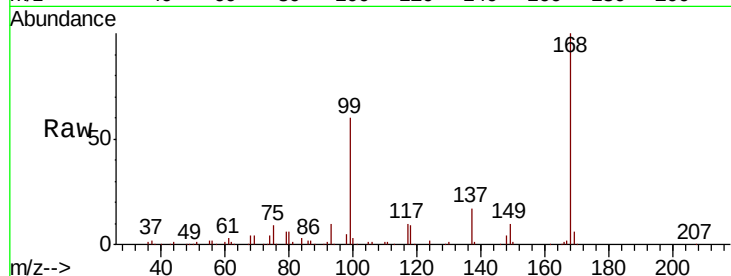
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 373459

Ion Ratio Lower Upper

168 100

99 60.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

150000

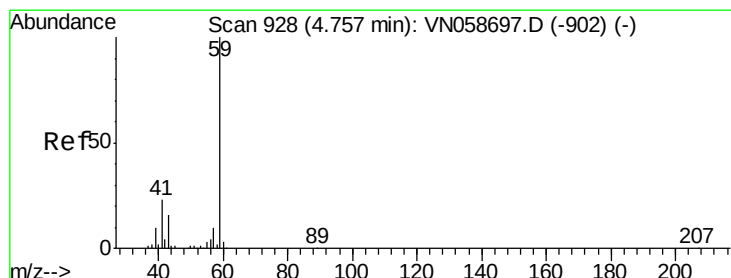
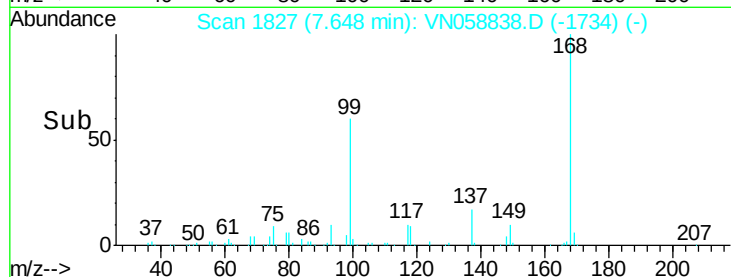
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.293 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058838.D

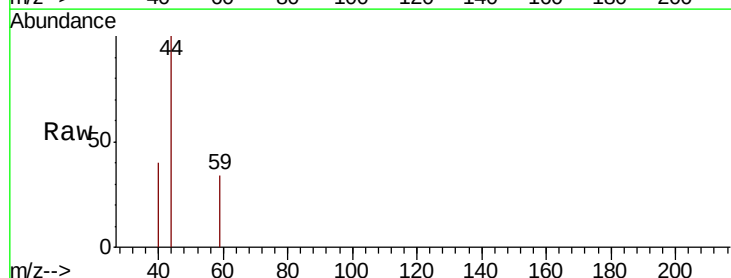
Acq: 17 Oct 2019 19:12

Tgt Ion: 59 Resp: 248

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

250

200

150

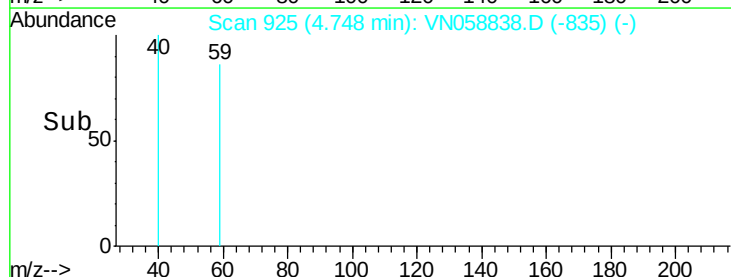
100

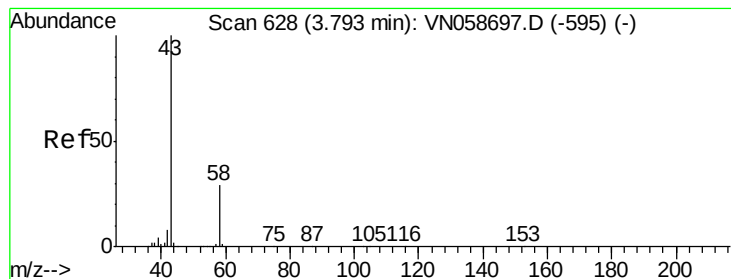
50

0

4.74 4.76

Time-->





#16

Acetone

Concen: 4.972 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

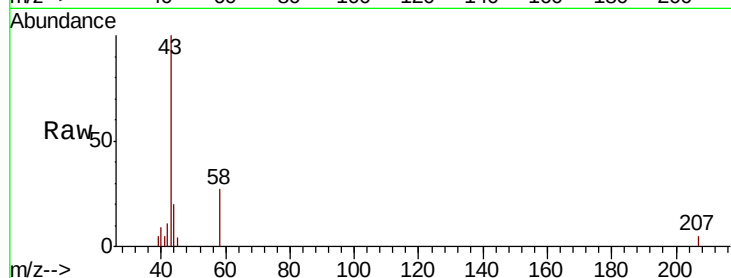
ClientSampleId :

Tot Ion: 43 Resp: 10763

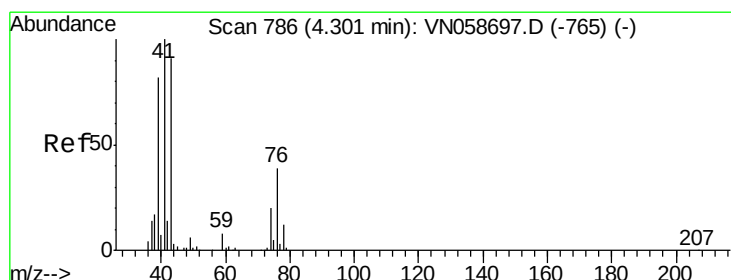
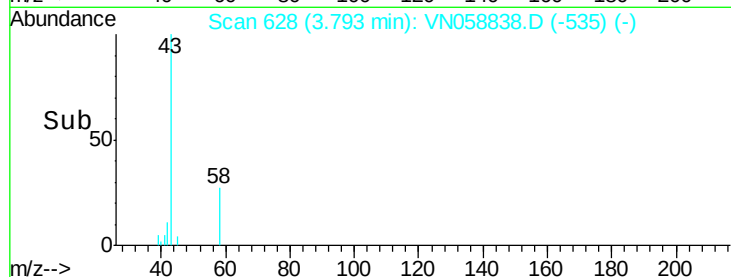
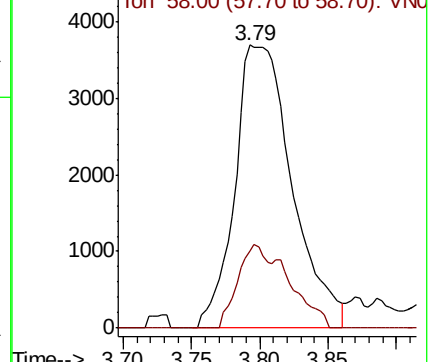
Ion Ratio Lower Upper

43 100

58 27.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN0



#18

Methyl Acetate

Concen: 0.671 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058838.D

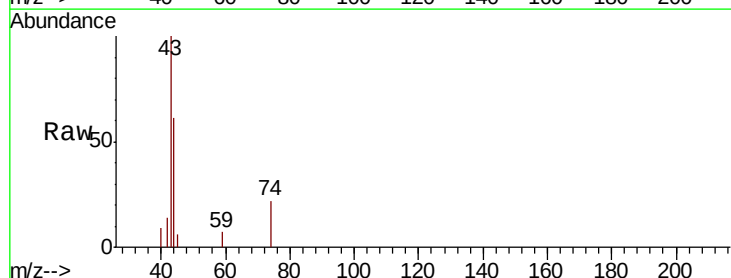
Acq: 17 Oct 2019 19:12

Tgt Ion: 43 Resp: 3682

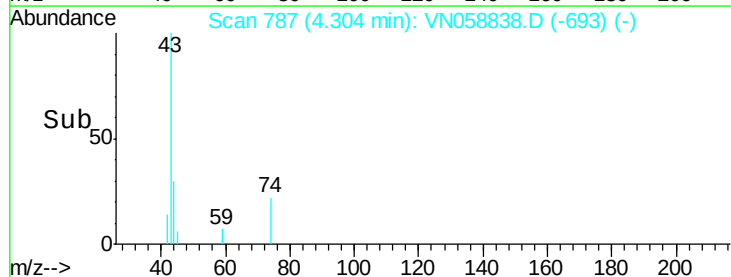
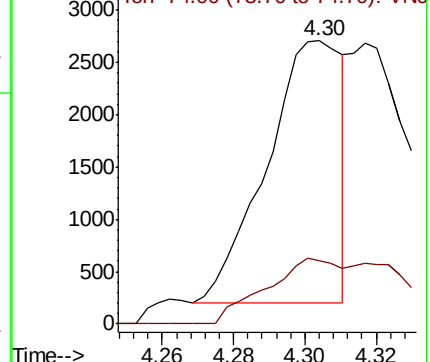
Ion Ratio Lower Upper

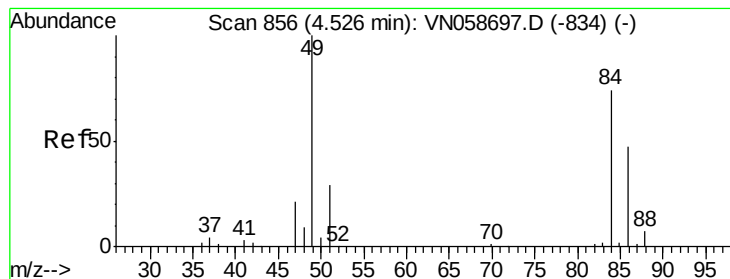
43 100

74 24.4 17.2 25.8



Abundance Ion 43.00 (42.70 to 43.70): VN0





#20

Methvlene Chloride

Concen: 2.531 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 11448

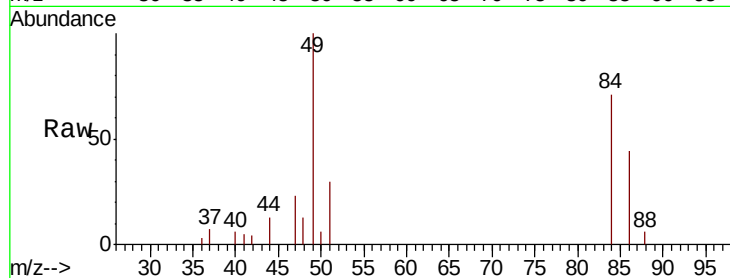
Ion Ratio Lower Upper

84 100

49 141.3 107.6 161.4

51 42.5 31.4 47.0

86 61.9 50.3 75.5

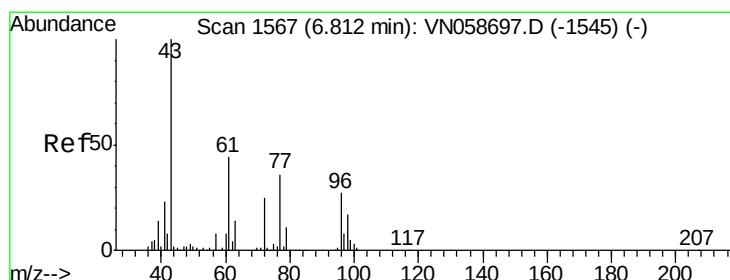
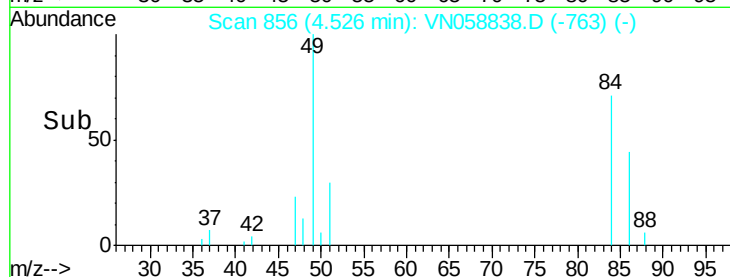
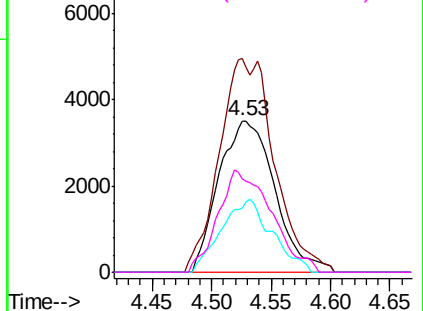


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.320 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN058838.D

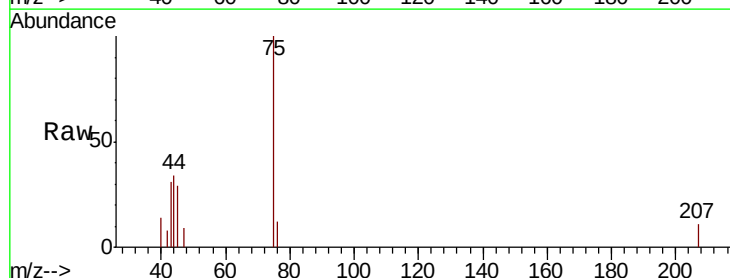
Acq: 17 Oct 2019 19:12

Tgt Ion: 43 Resp: 1000

Ion Ratio Lower Upper

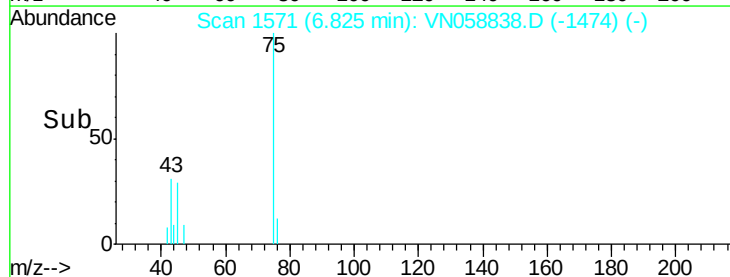
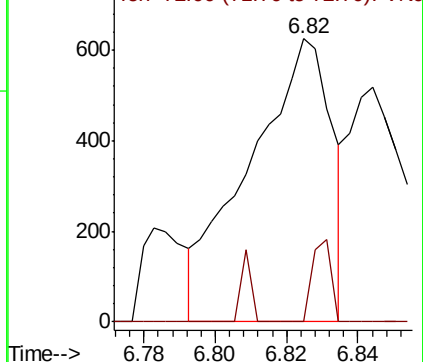
43 100

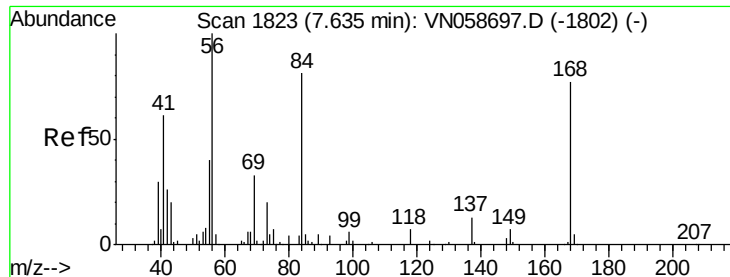
72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

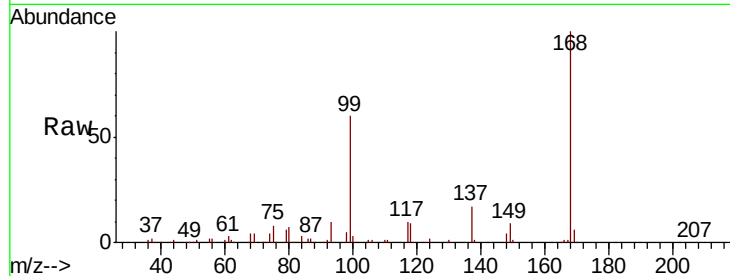




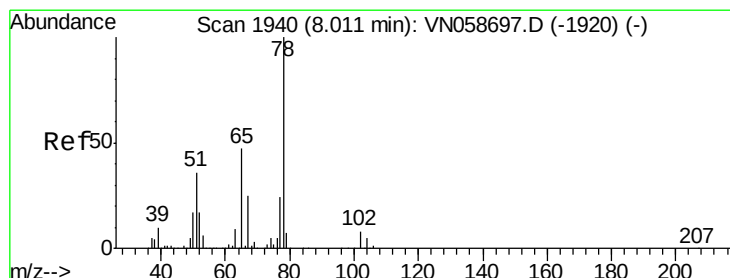
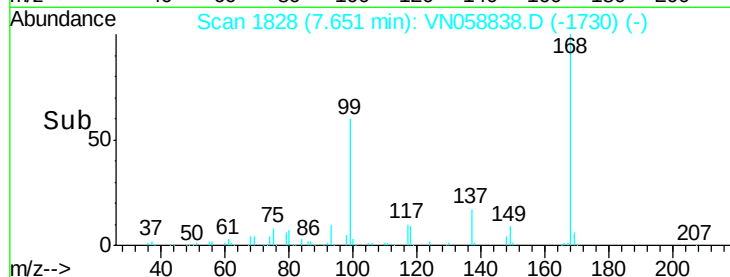
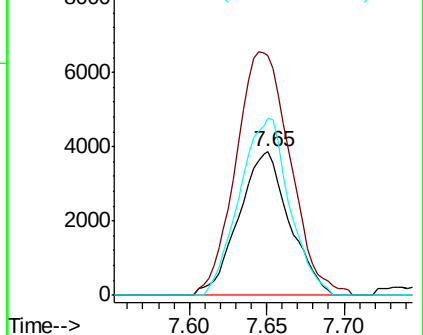
#31
Cyclohexane
Concen: 1.153 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 8839
Ion Ratio Lower Upper
56 100
69 166.5 26.2 39.4#
84 123.0 64.9 97.3#

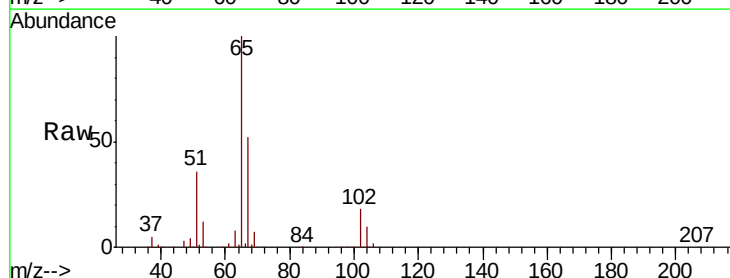


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

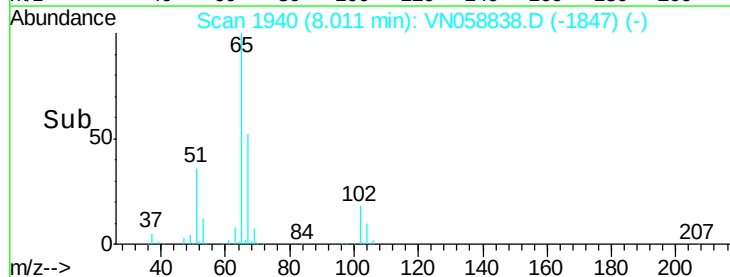
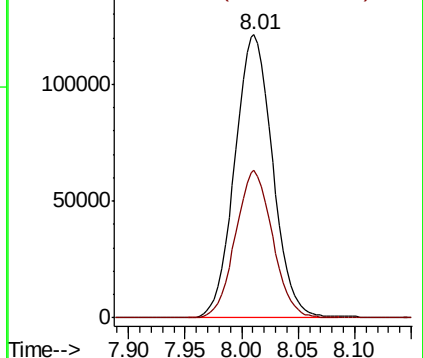


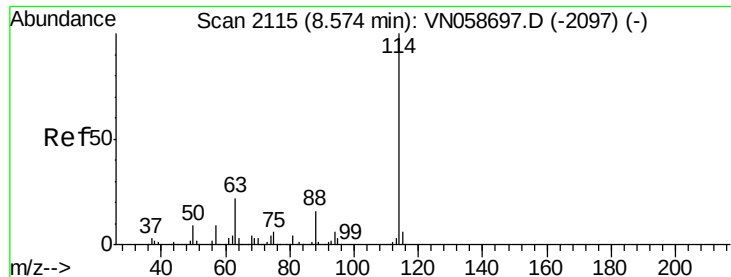
#33
1,2-Dichloroethane-d4
Concen: 53.980 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

Tgt Ion: 65 Resp: 282225
Ion Ratio Lower Upper
65 100
67 51.1 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: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

ClientSampleId :

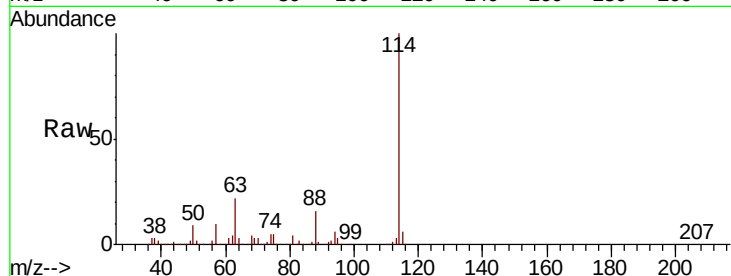
Tot Ion:114 Resp: 609208

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

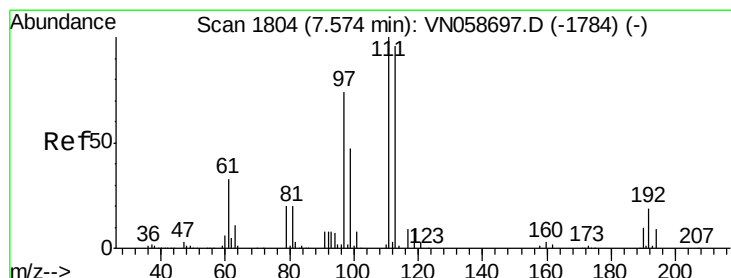
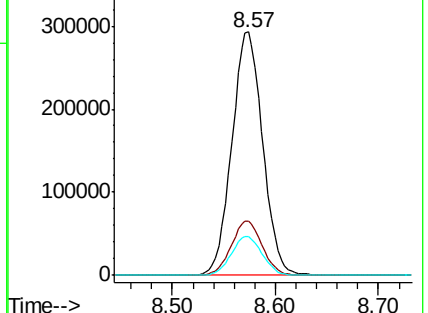
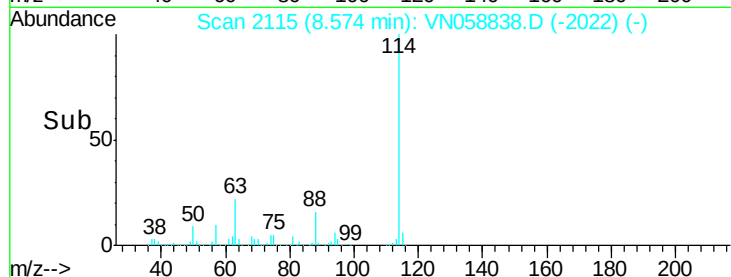
88 15.9 0.0 32.0



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: 53.371 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

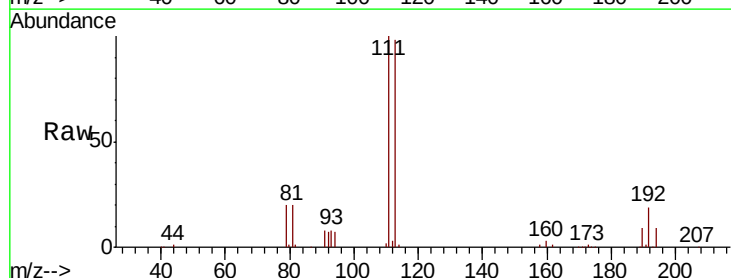
Tgt Ion:113 Resp: 200832

Ion Ratio Lower Upper

113 100

111 101.0 82.3 123.5

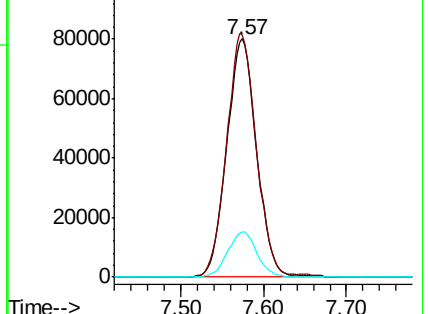
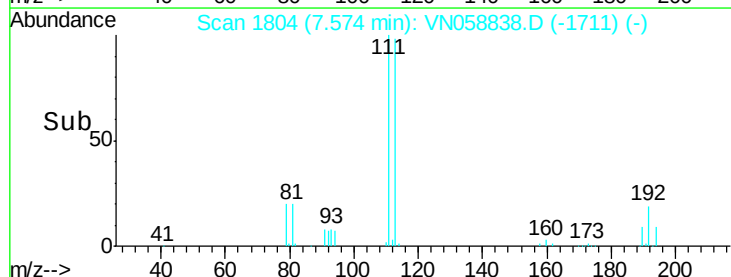
192 18.7 15.0 22.6

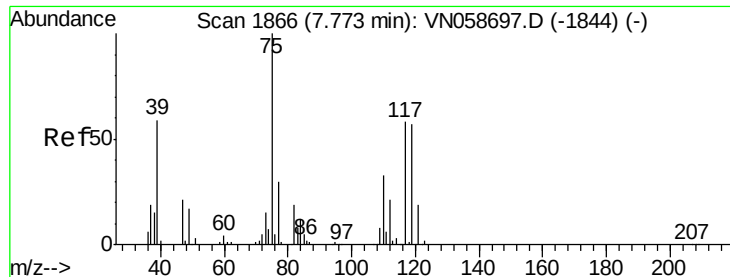


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

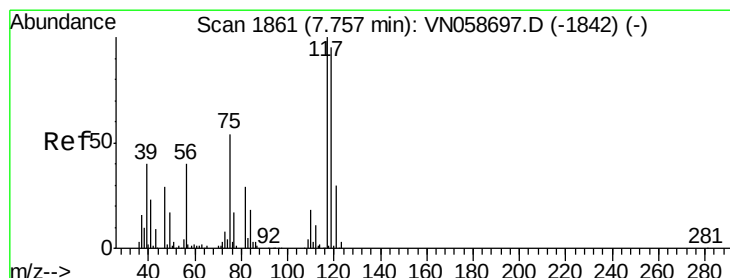
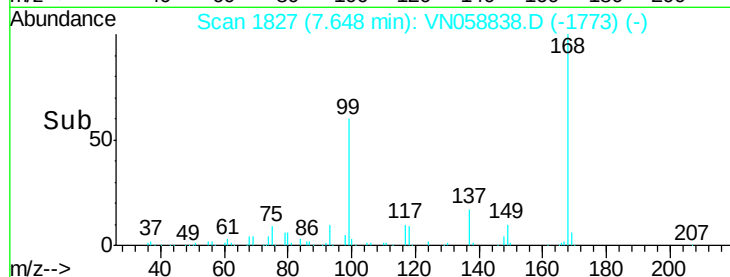
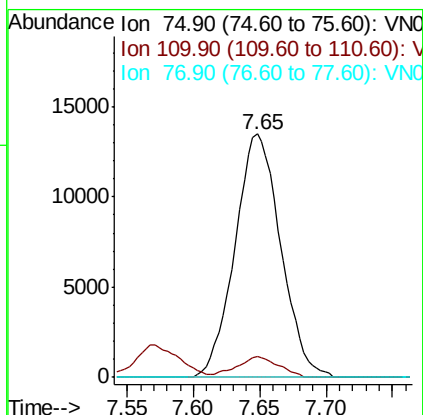
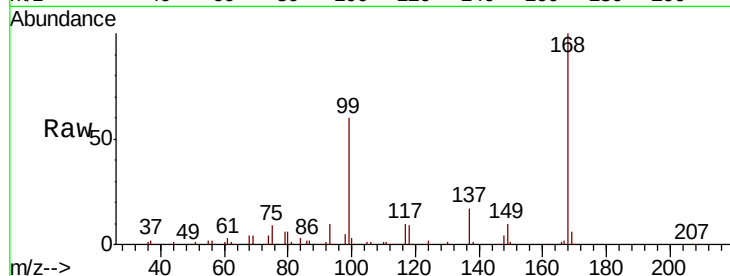




#36
 1,1-Dichloropropene
 Concen: 5.249 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058838.D
 Acq: 17 Oct 2019 19:12

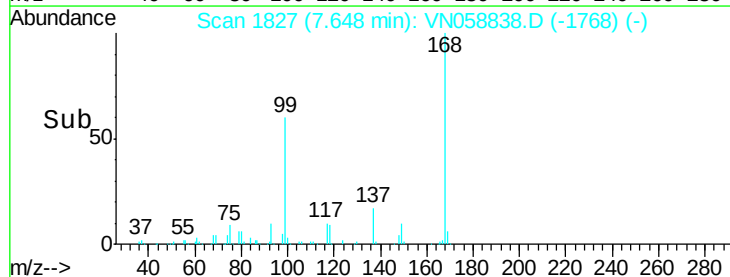
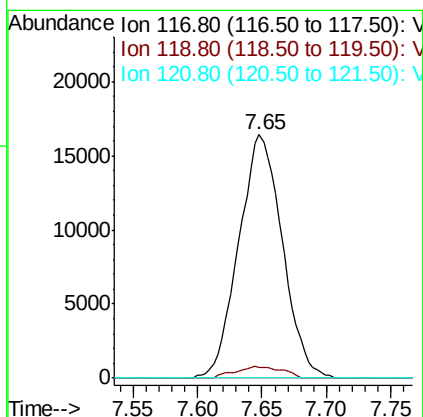
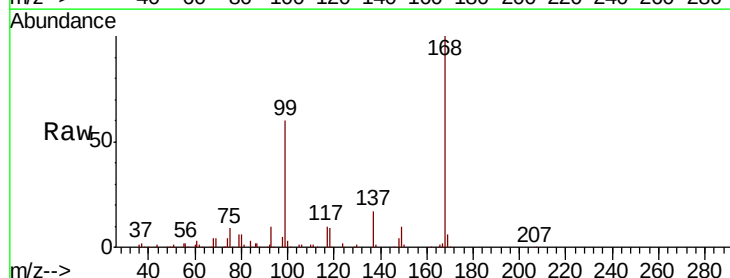
Instrument :
 MSVOA_N
 ClientSampleId :

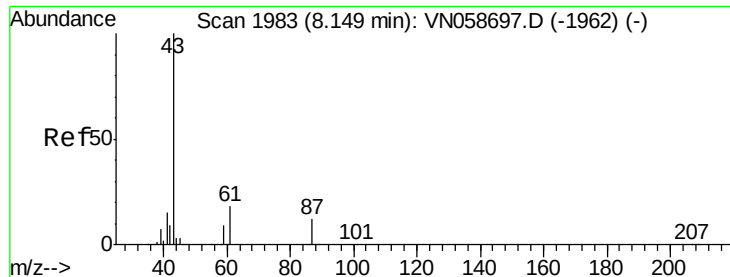
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.441 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058838.D
 Acq: 17 Oct 2019 19:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 8.007 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

ClientSampleId :

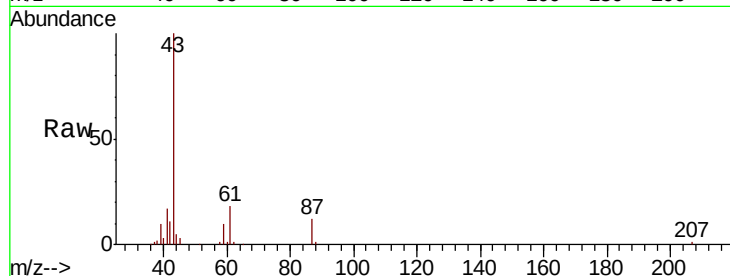
Tot Ion: 43 Resp: 84969

Ion Ratio Lower Upper

43 100

61 18.0 20.3 30.5#

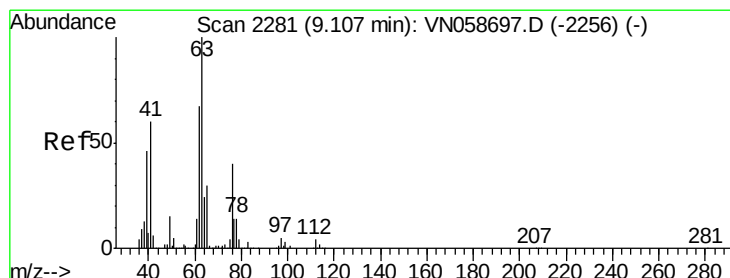
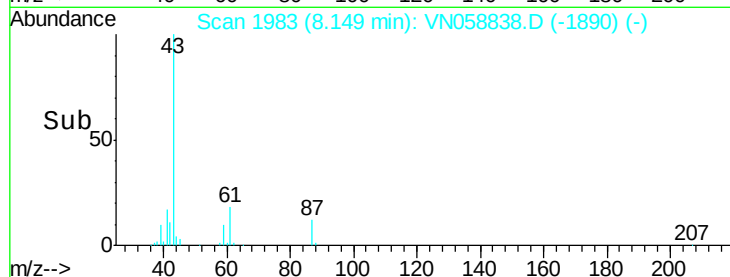
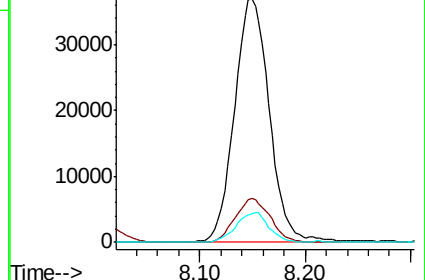
87 11.4 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058697.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058697.D (-1962) (-)



#45

1,2-Dichloropropane

Concen: 0.361 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058838.D

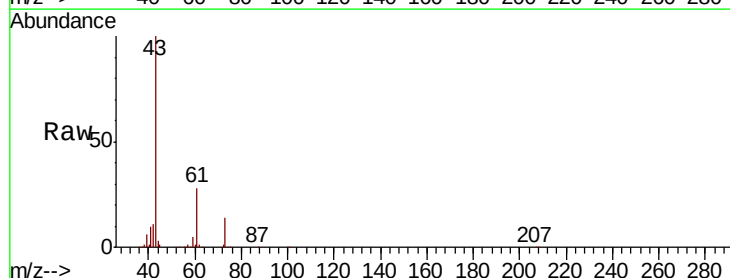
Acq: 17 Oct 2019 19:12

Tgt Ion: 63 Resp: 1708

Ion Ratio Lower Upper

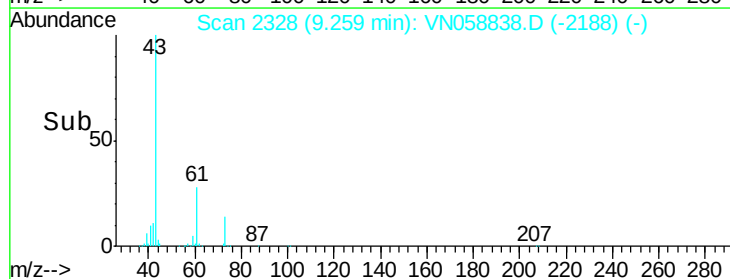
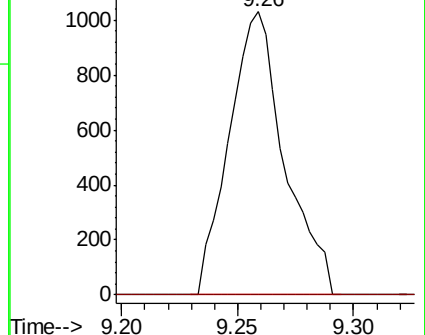
63 100

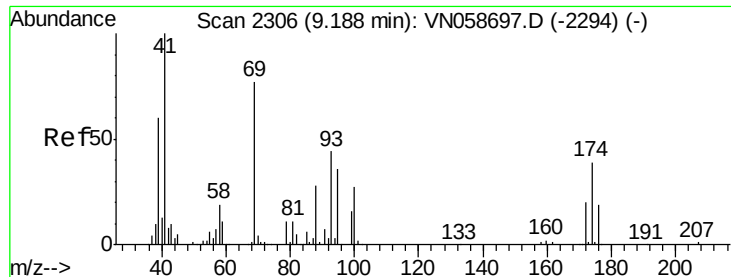
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN058697.D (-2256) (-)

Ion 64.90 (64.60 to 65.60): VN058697.D (-2256) (-)

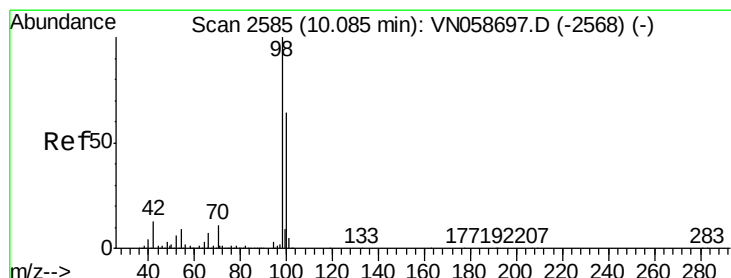
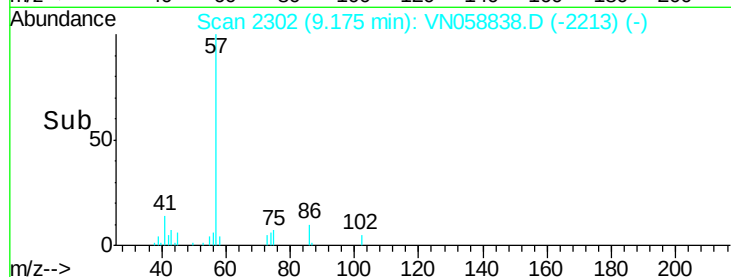
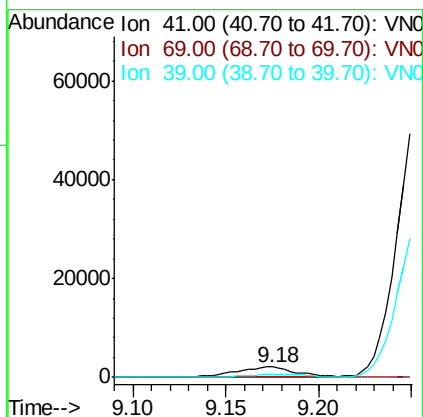
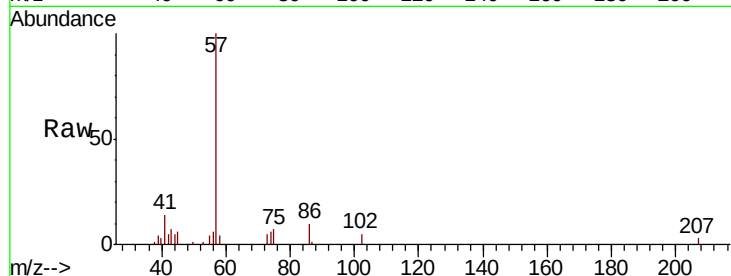




#48
Methvl methacrylate
Concen: 0.977 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.01 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

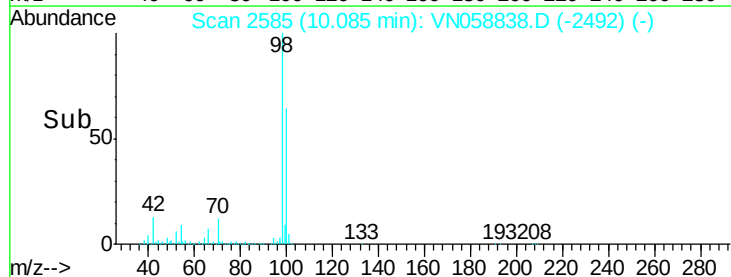
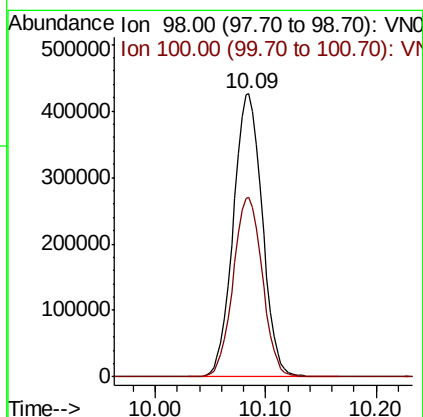
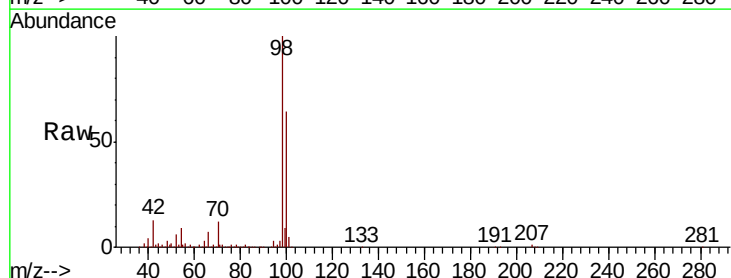
Instrument :
MSVOA_N
ClientSampled :

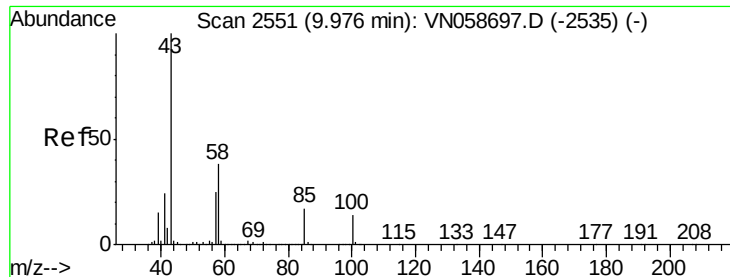
Tot Ion: 41 Resp: 4701
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#50
Toluene-d8
Concen: 51.648 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

Tgt Ion: 98 Resp: 777169
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.816 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

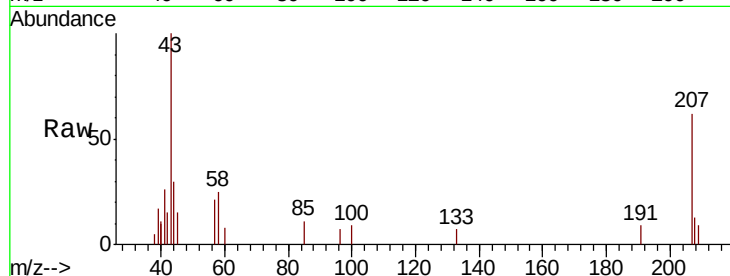
ClientSampleId :

Tot Ion: 43 Resp: 4865

Ion Ratio Lower Upper

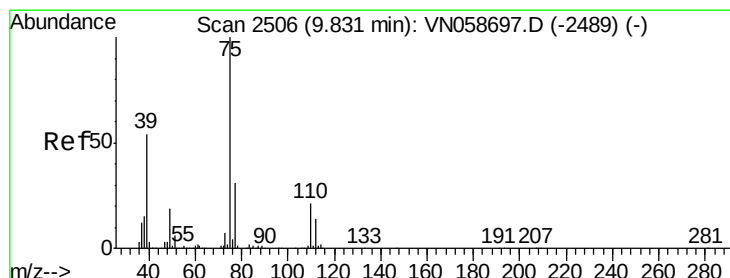
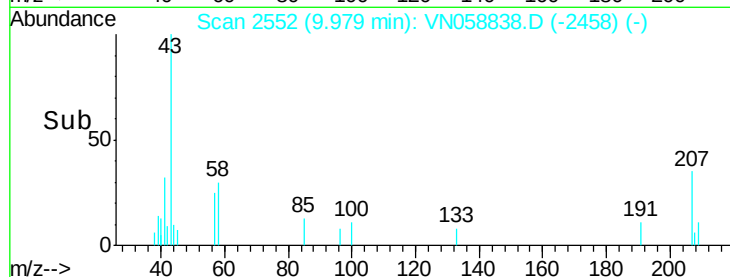
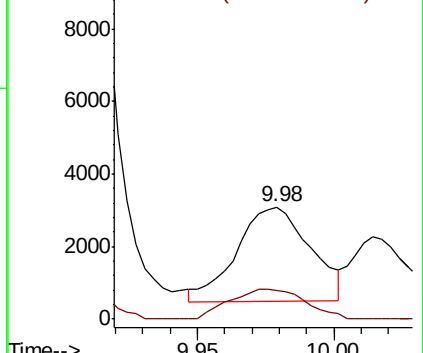
43 100

58 32.8 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: 3.573 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.06 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

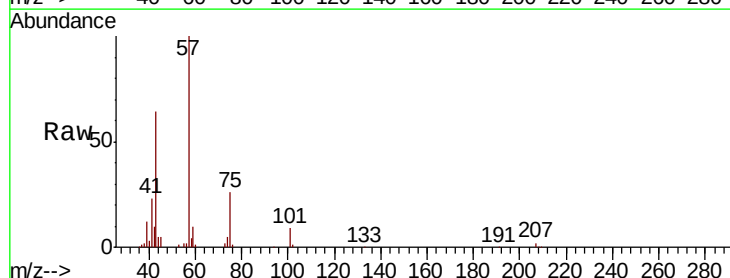
Tgt Ion: 75 Resp: 26601

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

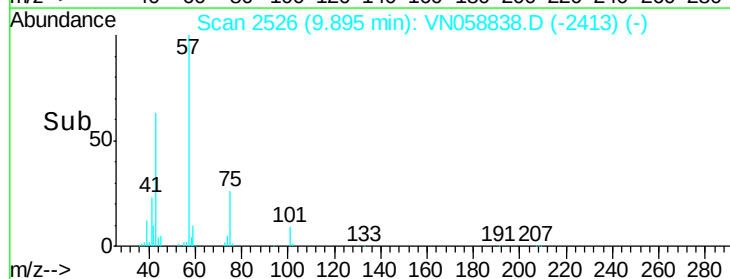
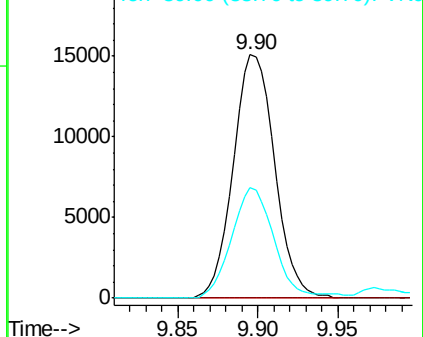
39 45.4 43.1 64.7

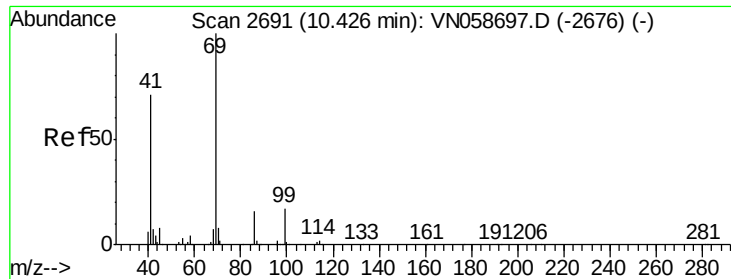


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.224 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

ClientSampleId :

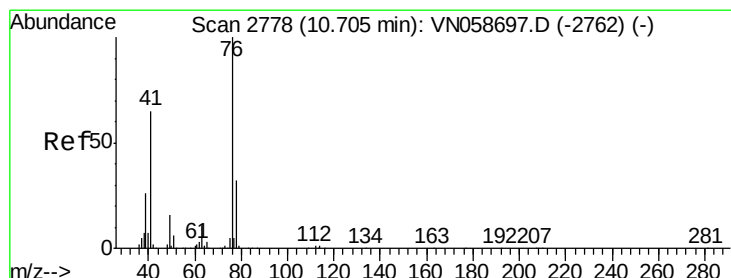
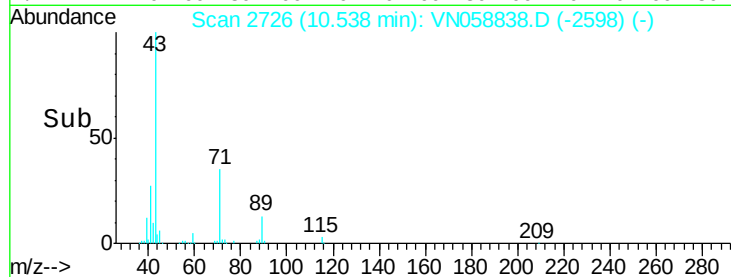
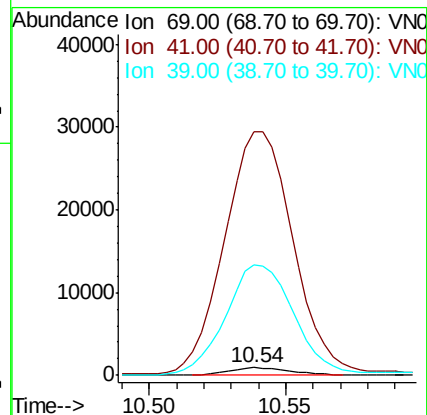
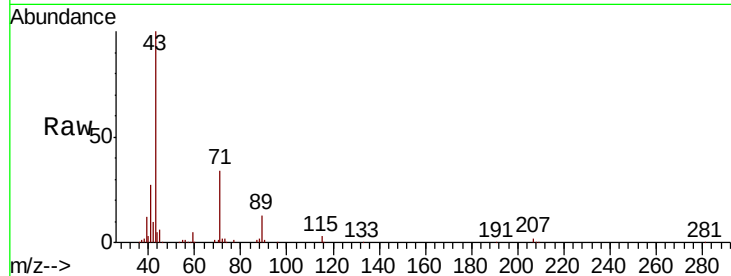
Tot Ion: 69 Resp: 1452

Ion Ratio Lower Upper

69 100

41 3612.5 56.8 85.2#

39 1606.8 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.461 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058838.D

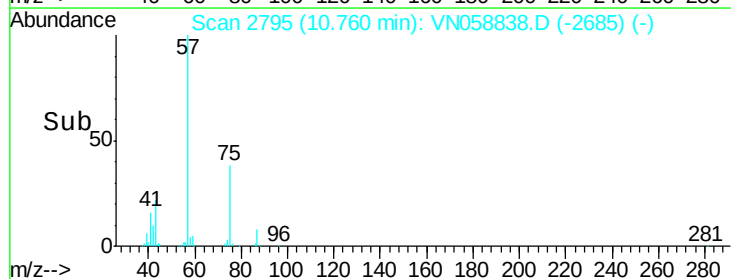
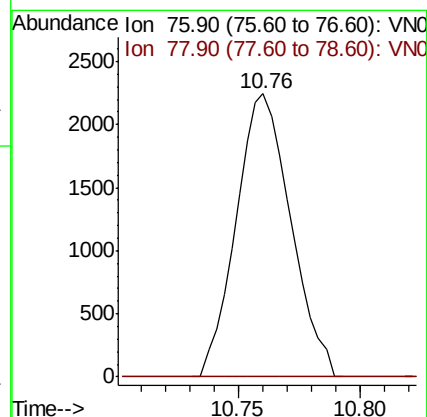
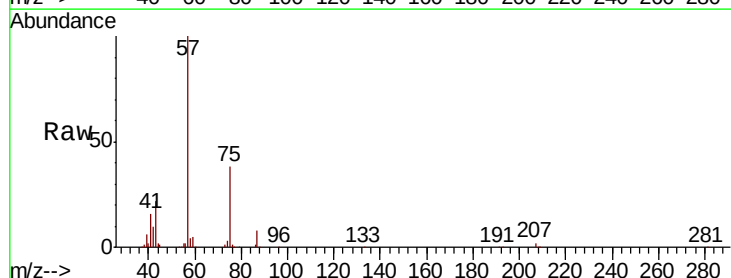
Acq: 17 Oct 2019 19:12

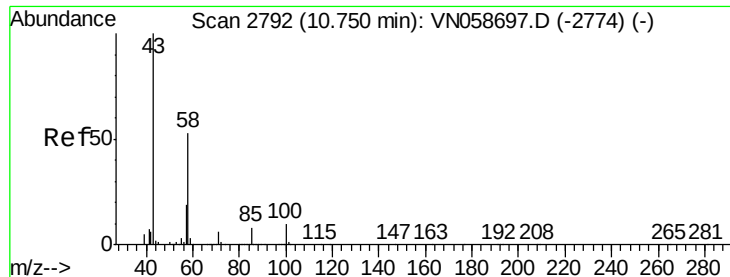
Tgt Ion: 76 Resp: 3482

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

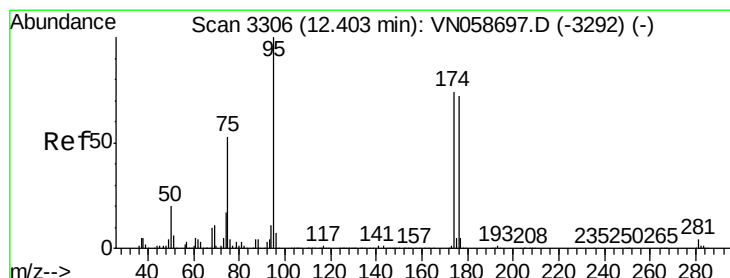
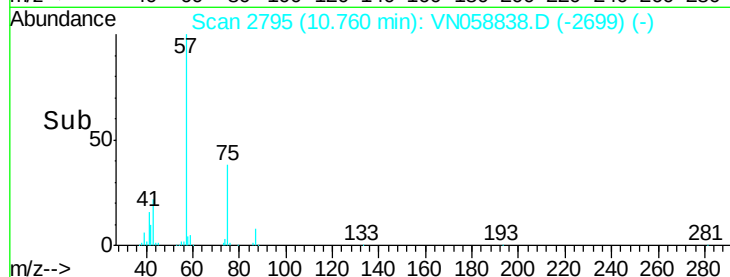
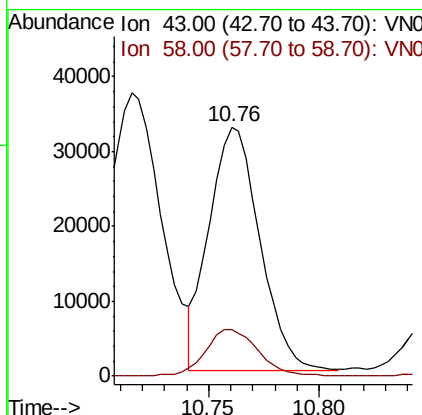
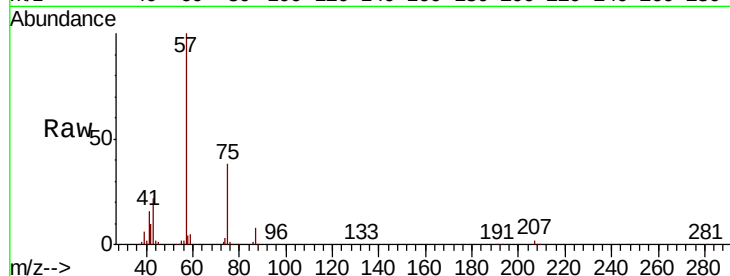




#59
2-Hexanone
Concen: 11.269 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

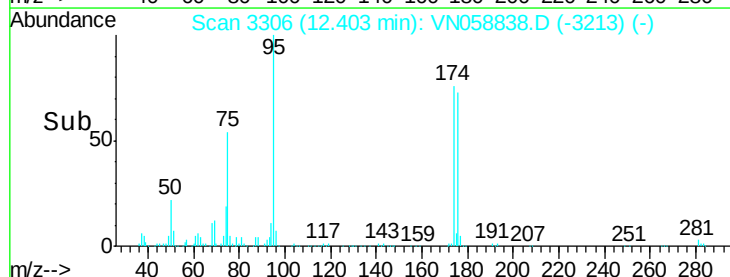
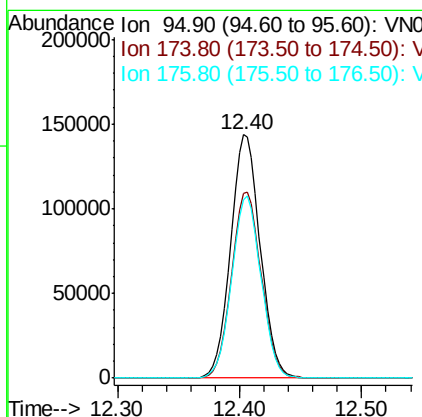
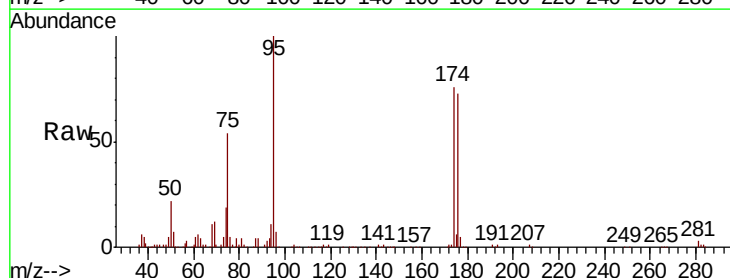
Instrument :
MSVOA_N
ClientSampled :

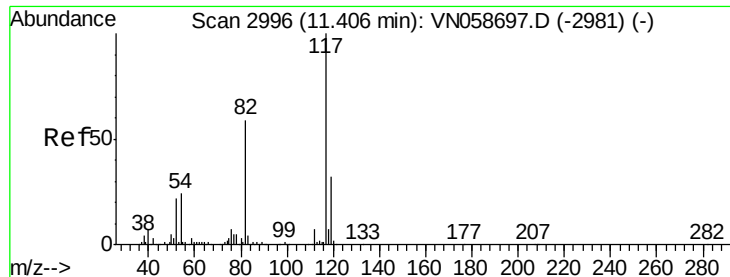
Tot Ion: 43 Resp: 51904
Ion Ratio Lower Upper
43 100
58 19.9 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 42.594 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

Tgt Ion: 95 Resp: 242612
Ion Ratio Lower Upper
95 100
174 76.9 0.0 150.4
176 74.2 0.0 146.8

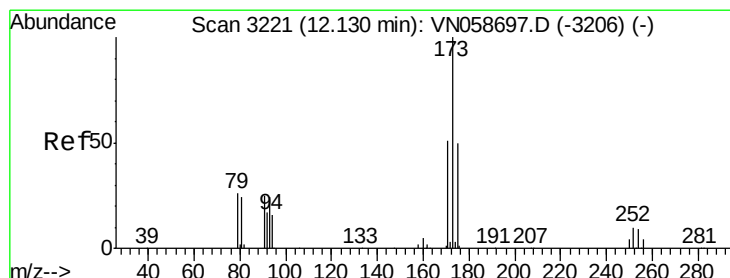
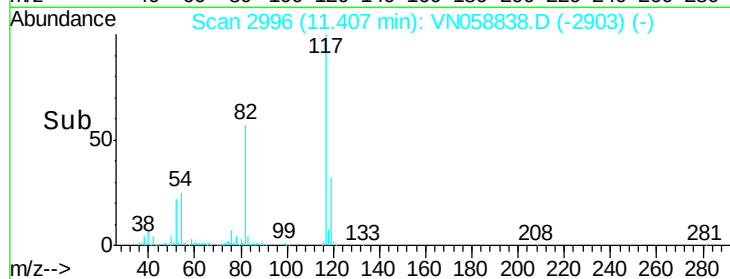
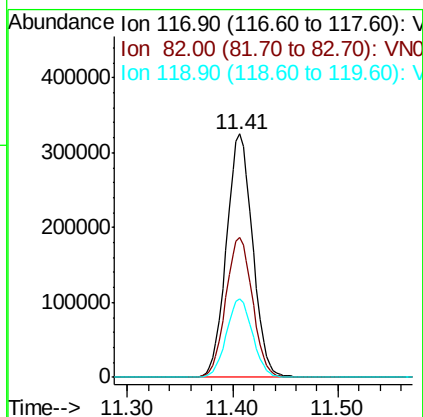
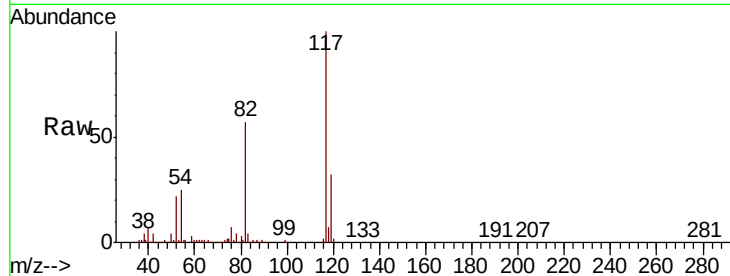




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

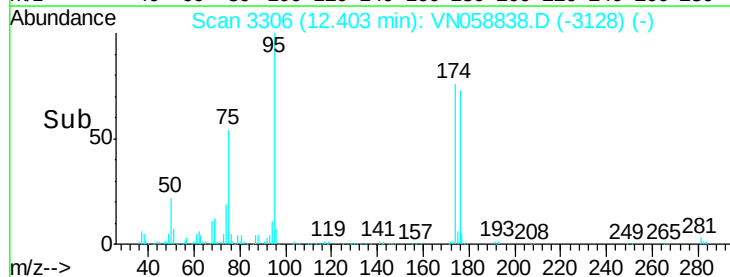
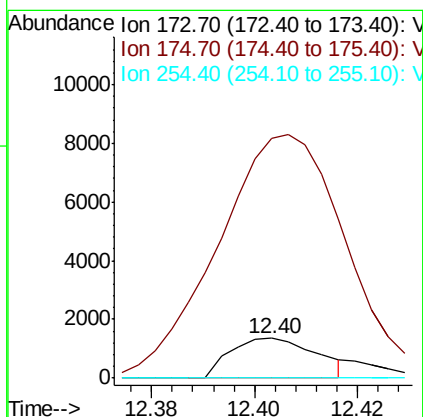
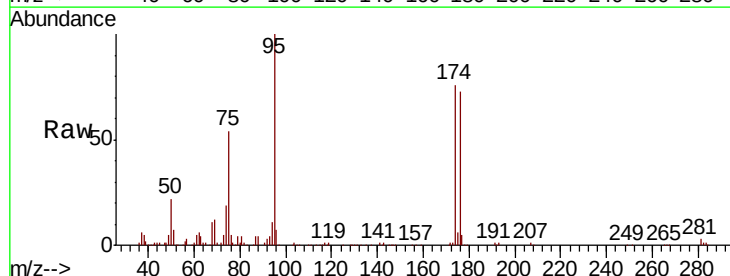
Instrument :
MSVOA_N
ClientSampleId :

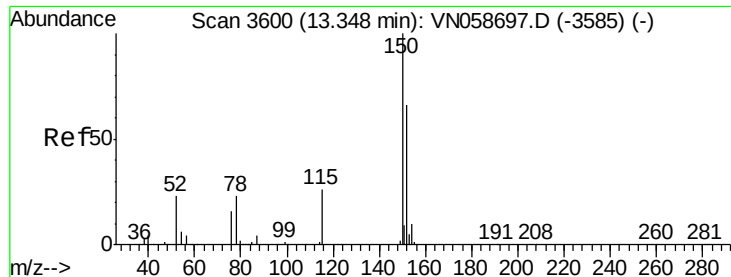
Tot Ion:117 Resp: 556170
Ion Ratio Lower Upper
117 100
82 57.5 47.0 70.4
119 32.0 25.4 38.2



#71
Bromoform
Concen: 0.509 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058838.D
Acq: 17 Oct 2019 19:12

Tgt Ion:173 Resp: 1557
Ion Ratio Lower Upper
173 100
175 800.6 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: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

ClientSampleId :

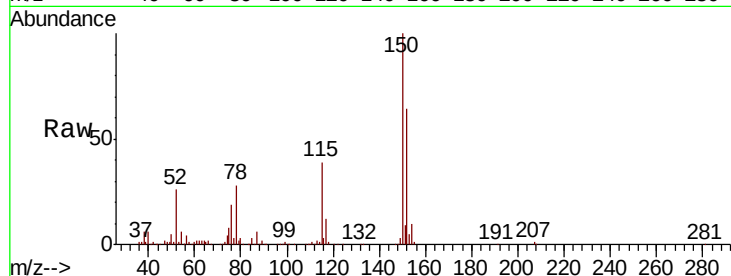
Tot Ion:152 Resp: 208952

Ion Ratio Lower Upper

152 100

115 60.8 30.4 91.2

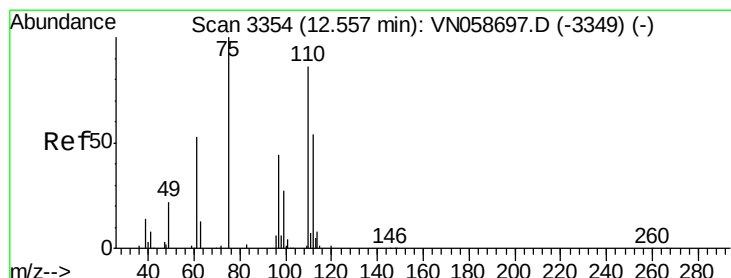
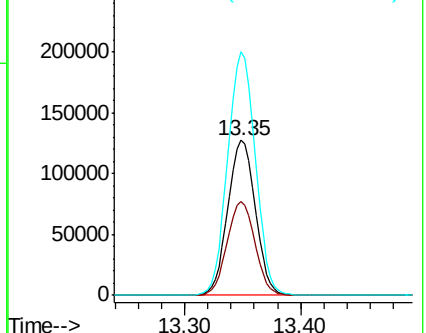
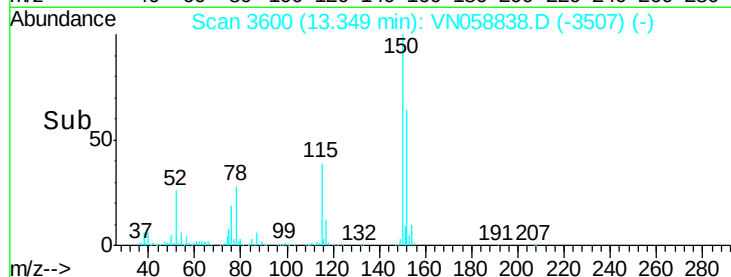
150 158.2 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 28.769 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058838.D

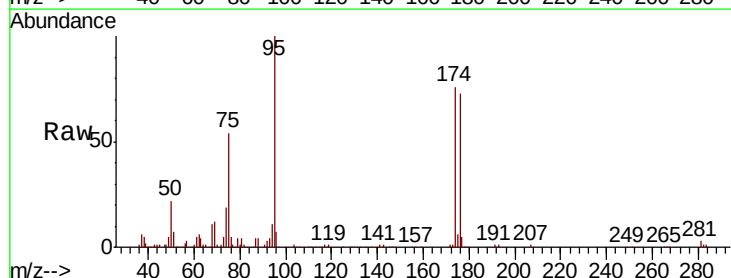
Acq: 17 Oct 2019 19:12

Tgt Ion: 75 Resp: 131873

Ion Ratio Lower Upper

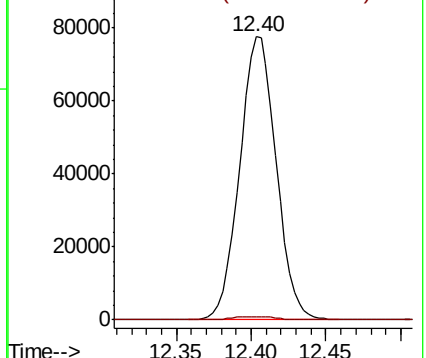
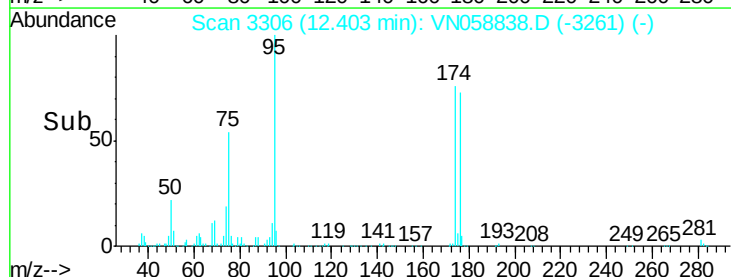
75 100

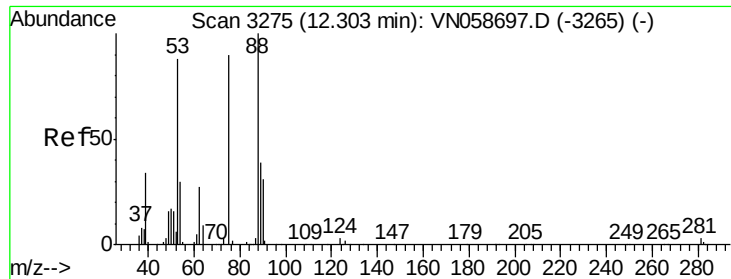
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 77.062 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058838.D

Acq: 17 Oct 2019 19:12

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 131873

Ion Ratio Lower Upper

75 100

53 0.1 78.4 117.6#

89 0.0 34.9 52.3#

