

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052691.D
 Acq On : 6 Dec 2018 11:04
 Operator : MD\SY
 Sample : PB115376TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 06:37:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1157179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1807542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1565715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	574969	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	626702	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
35) Dibromofluoromethane	7.59	113	420867	37.77	ug/l	0.00
Spiked Amount			Recovery	=	75.54%	
50) Toluene-d8	10.09	98	2200025	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	12.40	95	678046	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	

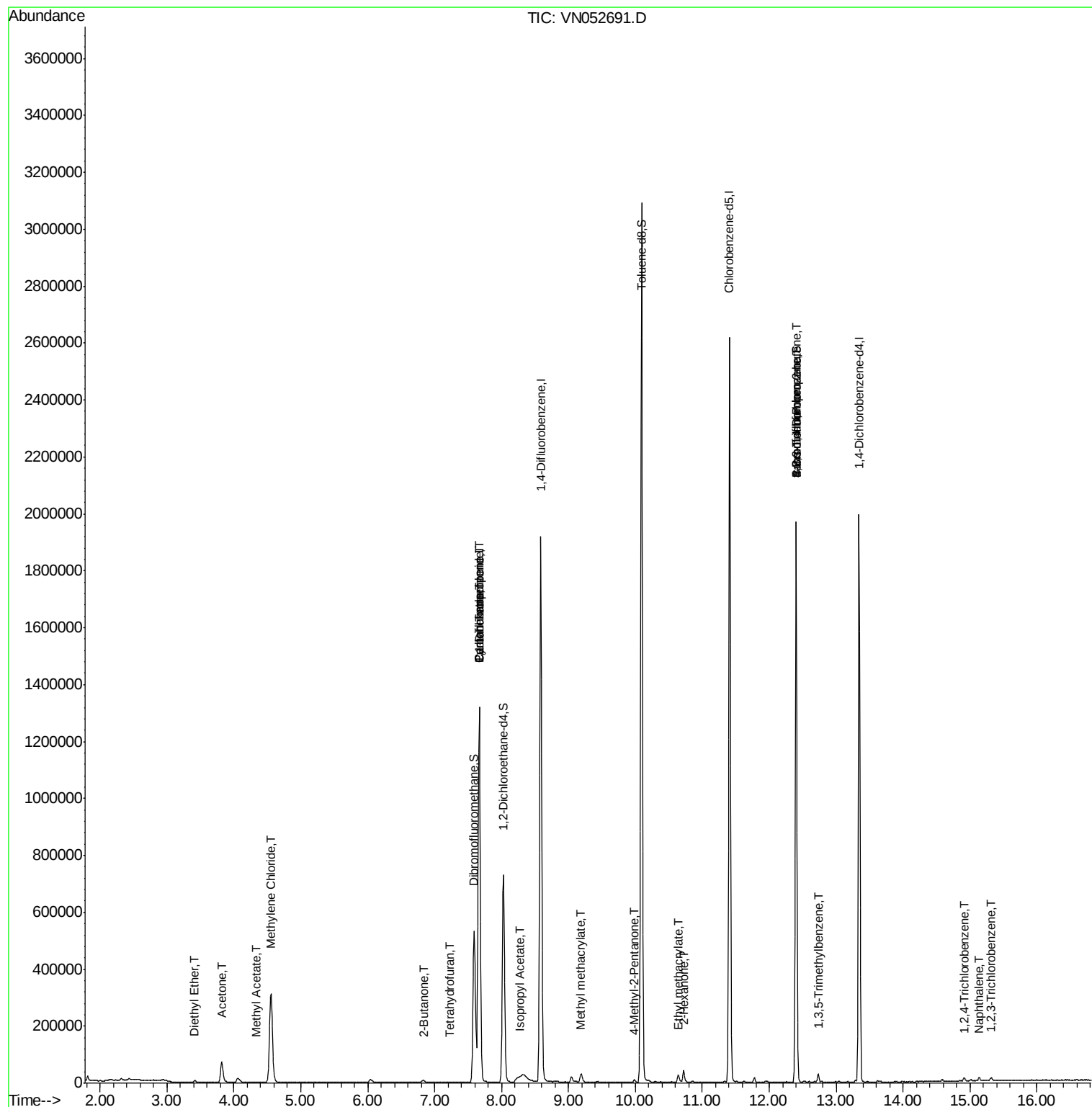
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	3204	0.481	ug/l	71
16) Acetone	3.82	43	122516	36.866	ug/l	98
18) Methyl Acetate	4.33	43	2602	0.273	ug/l #	80
20) Methylene Chloride	4.55	84	246255	18.936	ug/l	97
25) 2-Butanone	6.85	43	3732	0.792	ug/l #	50
29) Tetrahydrofuran	7.23	42	2058	0.677	ug/l #	72
31) Cyclohexane	7.67	56	21119	0.613	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	79314	4.647	ug/l #	49
38) Carbon Tetrachloride	7.67	117	101922	6.596	ug/l #	16
43) Isopropyl Acetate	8.27	43	22457	1.274	ug/l #	51
48) Methyl methacrylate	9.17	41	14845	1.615	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	7004	0.708	ug/l	92
56) Ethyl methacrylate	10.65	69	454	2.722	ug/l #	1
59) 2-Hexanone	10.72	43	36635	5.519	ug/l #	24
71) Bromoform	12.40	173	4224	0.568	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	322988	36.429	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13585	0.378	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	322988	121.654	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	3724	3.174	ug/l	90
95) Naphthalene	15.14	128	11102	3.906	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	4798	3.210	ug/l	98

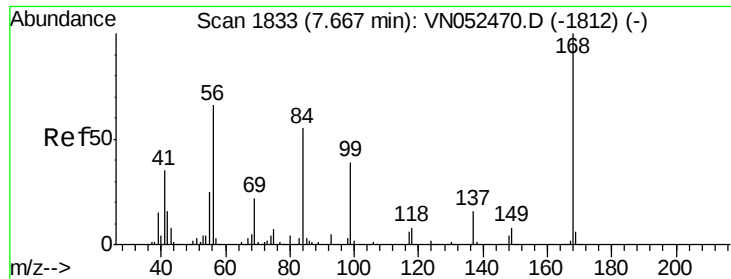
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

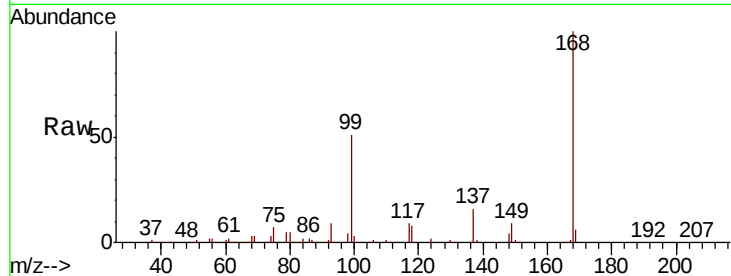
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1157179

Ion Ratio Lower Upper

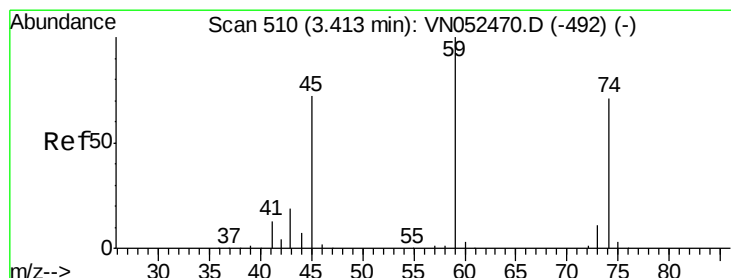
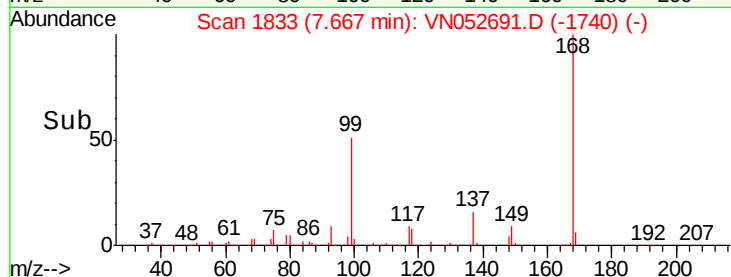
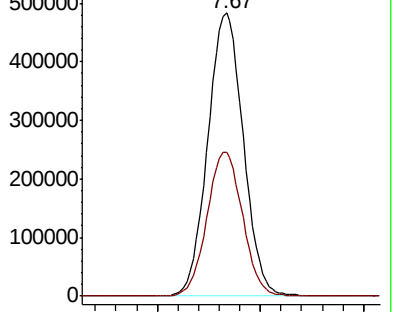
168 100

99 50.9 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 0.481 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN052691.D

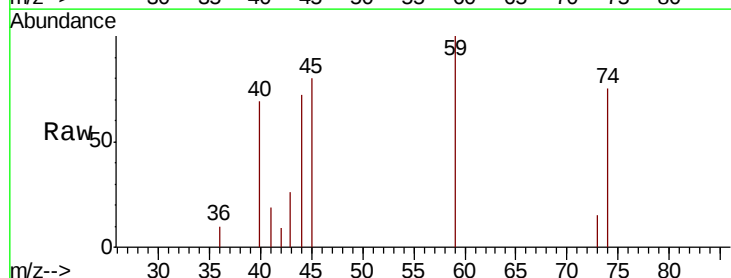
Acq: 6 Dec 2018 11:04

Tgt Ion: 74 Resp: 3204

Ion Ratio Lower Upper

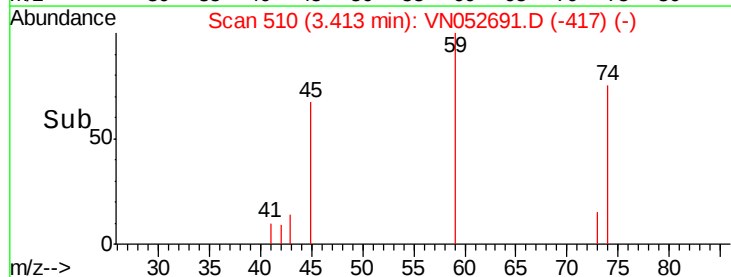
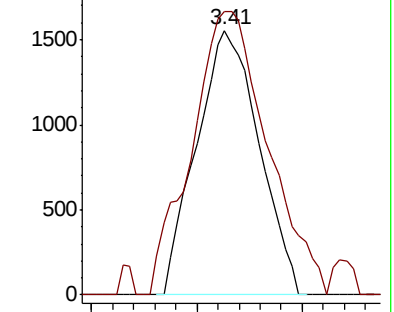
74 100

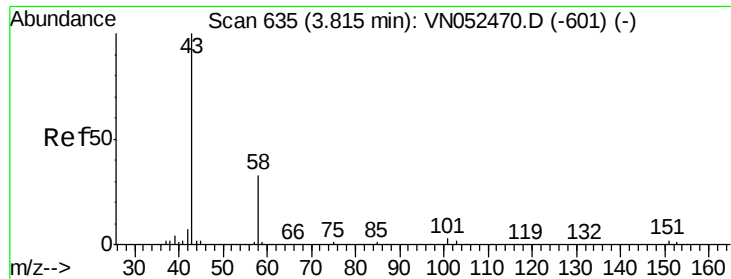
45 130.2 50.4 151.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#16

Acetone

Concen: 36.866 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

Instrument :

MSVOA_N

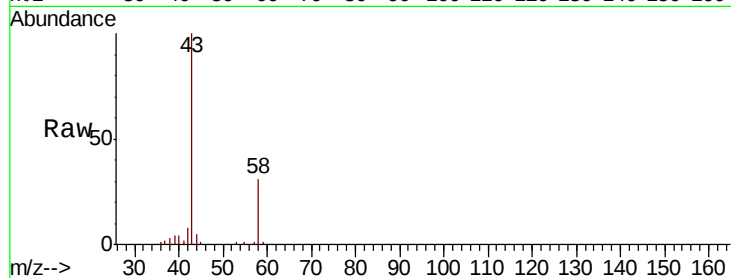
ClientSampled :

Tot Ion: 43 Resp: 122516

Ion Ratio Lower Upper

43 100

58 31.3 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-601) (-)

3.82

50000

40000

30000

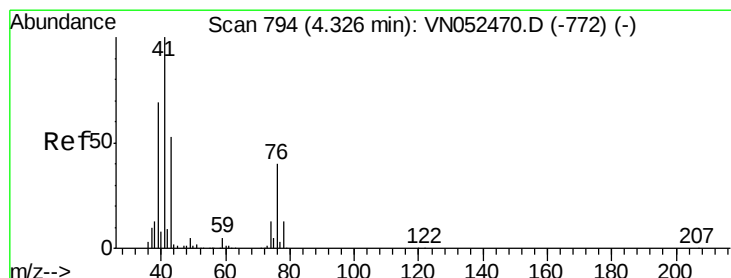
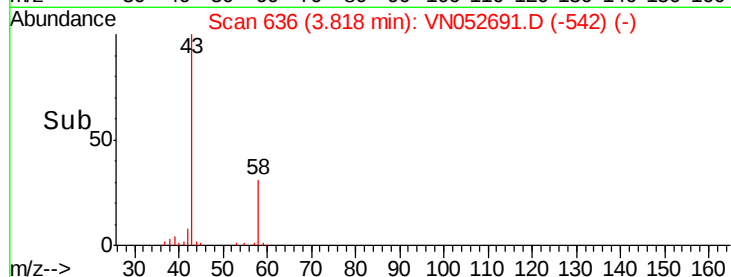
20000

10000

0

Time-->

3.70 3.80 3.90



#18

Methyl Acetate

Concen: 0.273 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052691.D

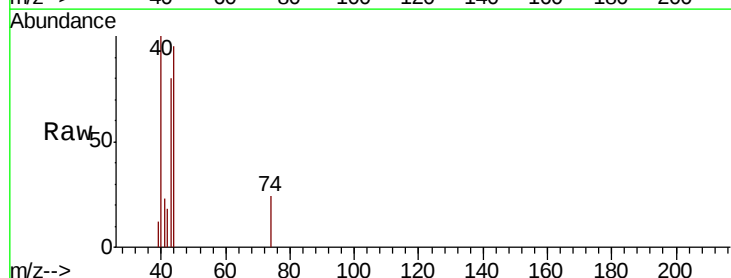
Acq: 6 Dec 2018 11:04

Tgt Ion: 43 Resp: 2602

Ion Ratio Lower Upper

43 100

74 13.3 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-772) (-)

Ion 74.00 (73.70 to 74.70): VN052470.D (-772) (-)

4.33

1200

1000

800

600

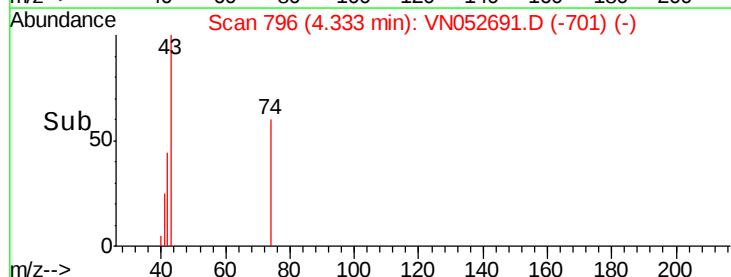
400

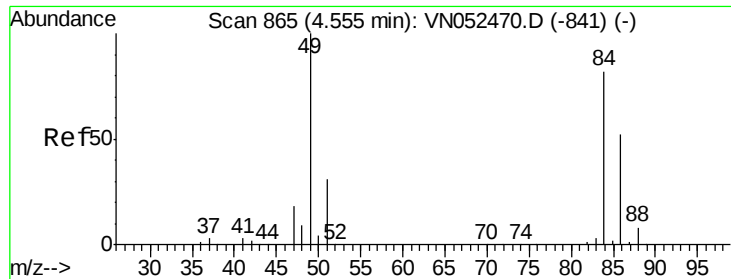
200

0

Time-->

4.25 4.30 4.35 4.40

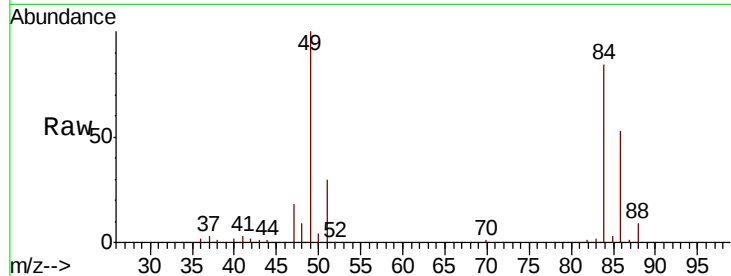




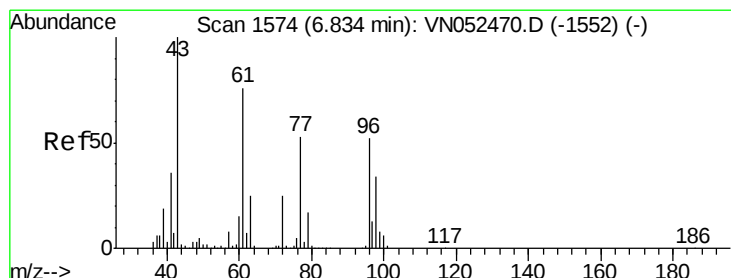
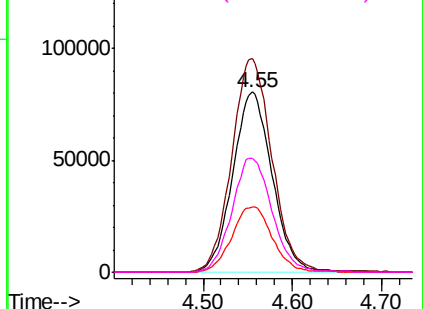
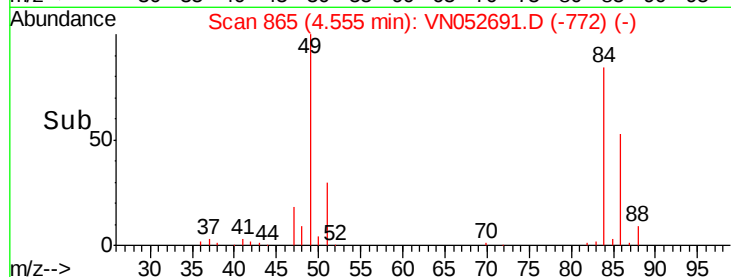
#20
Methvlene Chloride
Concen: 18.936 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 246255
Ion Ratio Lower Upper
84 100
49 118.2 98.0 147.0
51 35.9 30.1 45.1
86 62.9 50.7 76.1

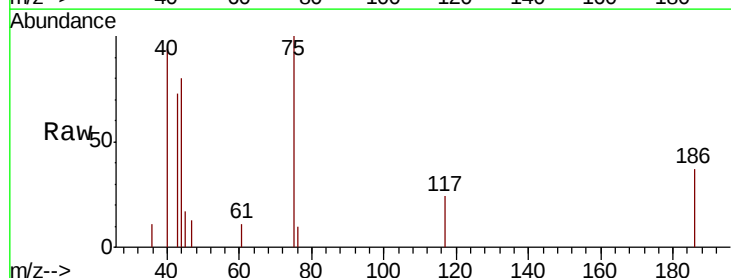


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

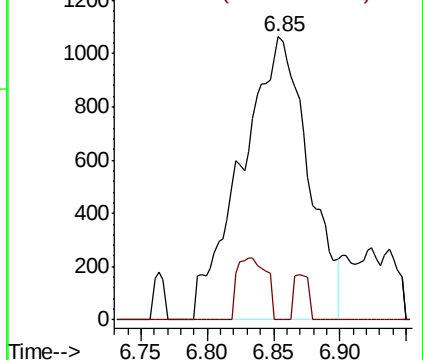
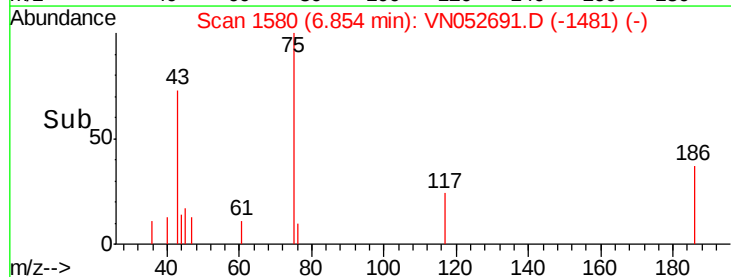


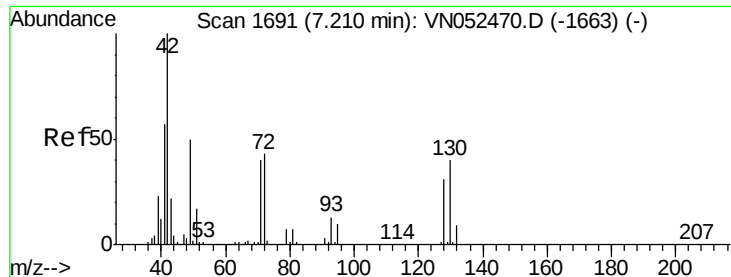
#25
2-Butanone
Concen: 0.792 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion: 43 Resp: 3732
Ion Ratio Lower Upper
43 100
72 0.0 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

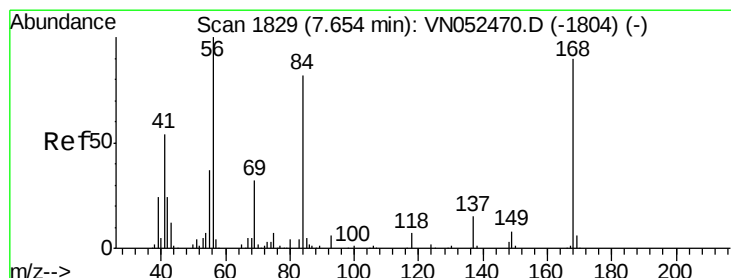
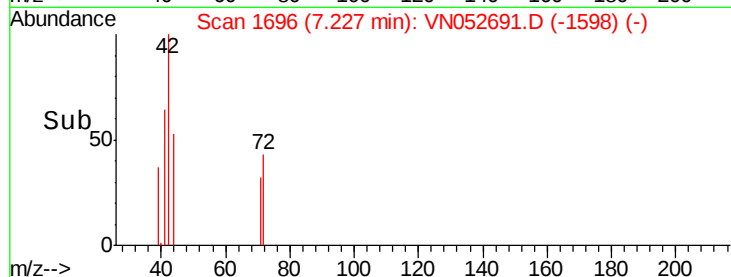
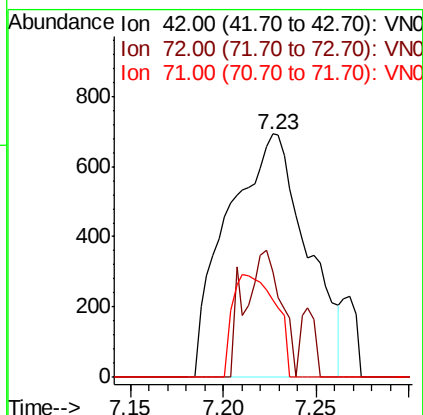
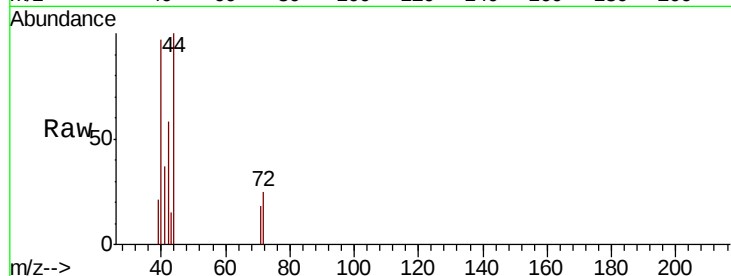




#29
Tetrahydrofuran
Concen: 0.677 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

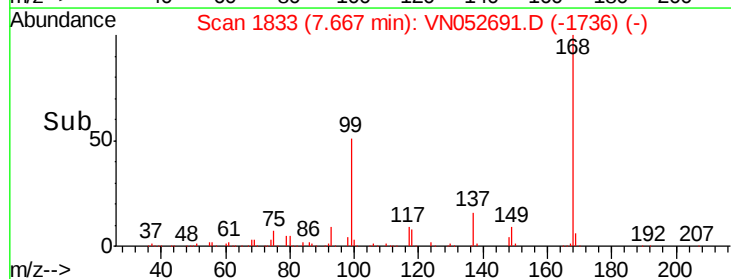
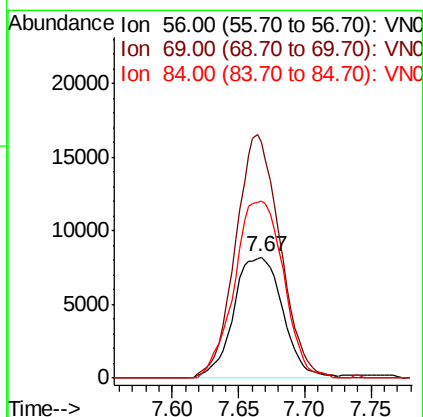
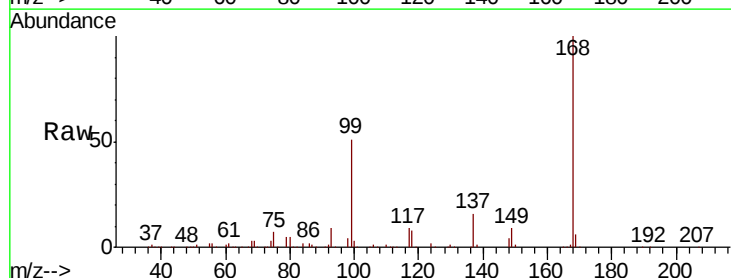
Instrument :
MSVOA_N
ClientSampled :

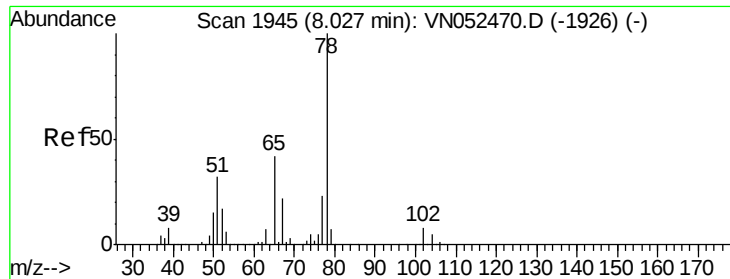
Tot Ion: 42 Resp: 2058
Ion Ratio Lower Upper
42 100
72 24.0 33.3 49.9#
71 22.8 32.0 48.0#



#31
Cyclohexane
Concen: 0.613 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion: 56 Resp: 21119
Ion Ratio Lower Upper
56 100
69 195.0 25.8 38.6#
84 146.7 65.3 97.9#

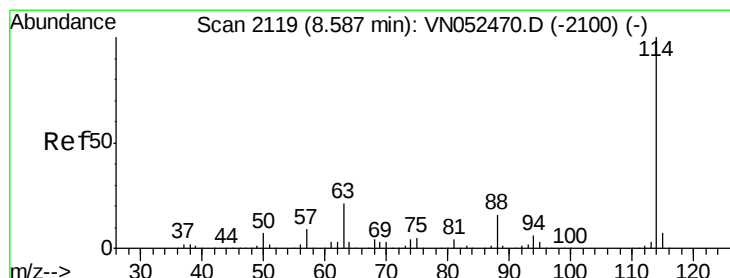
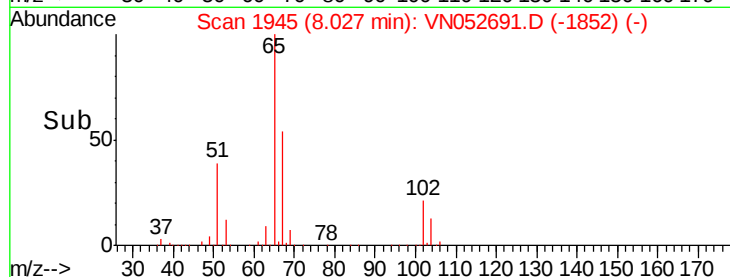
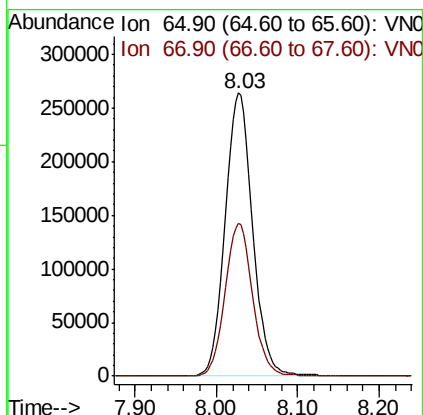
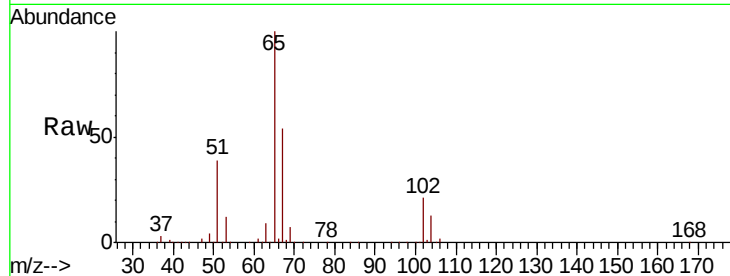




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052691.D
 Acq: 6 Dec 2018 11:04

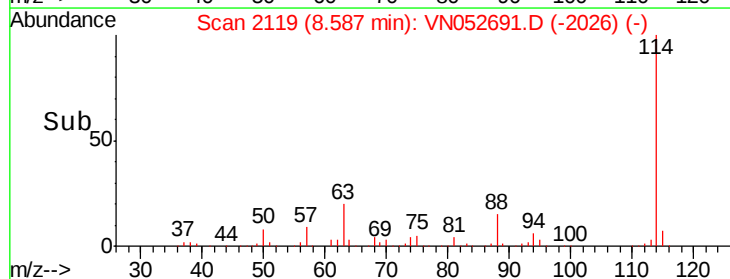
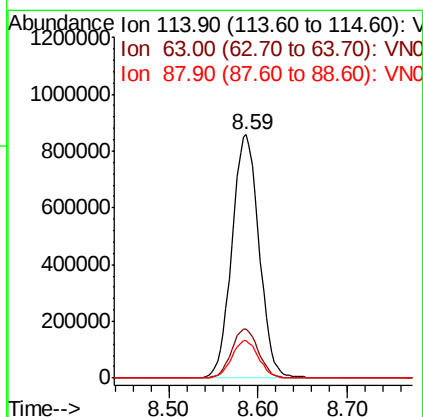
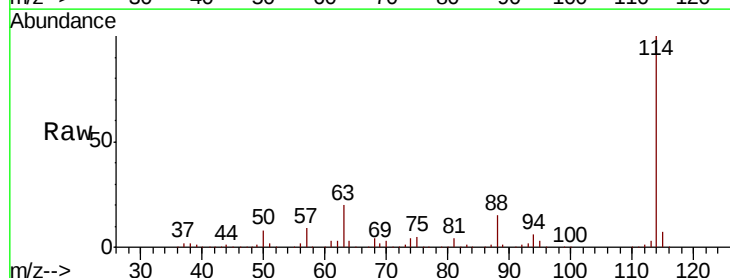
Instrument :
 MSVOA_N
 ClientSampleId :

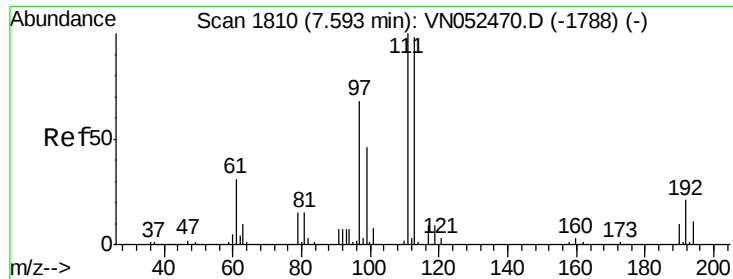
Tot Ion: 65 Resp: 626702
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052691.D
 Acq: 6 Dec 2018 11:04

Tgt Ion: 114 Resp: 1807542
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.8
 88 15.3 0.0 31.6

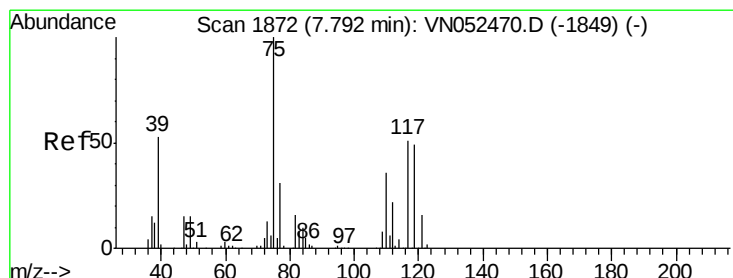
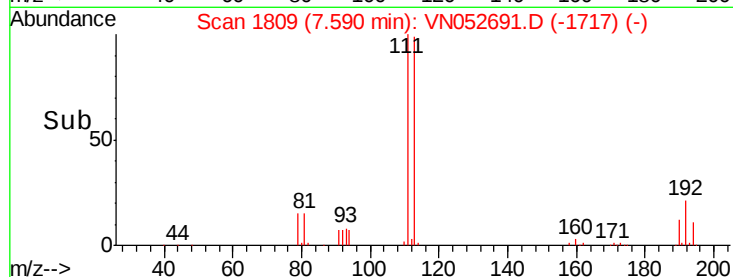
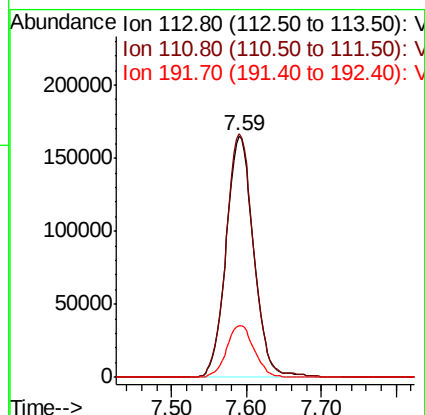
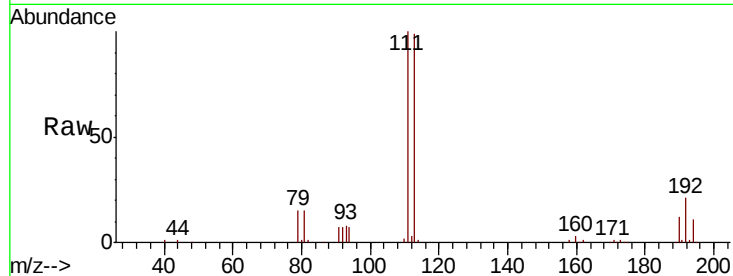




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

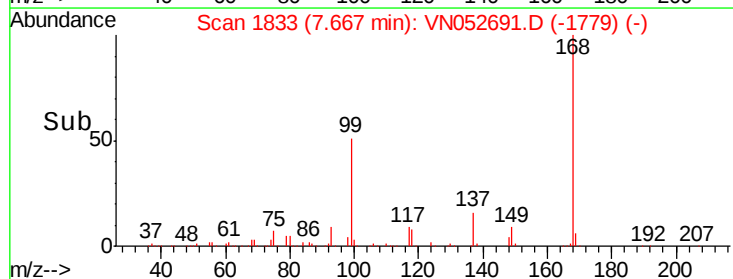
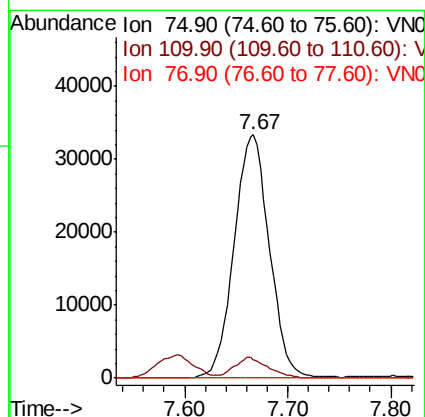
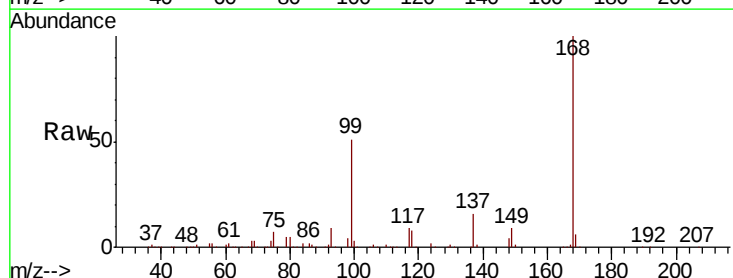
Instrument :
MSVOA_N
ClientSampleId :

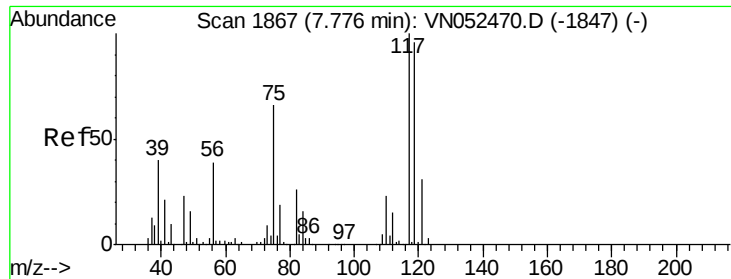
Tot Ion:113 Resp: 420867
Ion Ratio Lower Upper
113 100
111 101.4 82.0 123.0
192 21.5 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.647 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion: 75 Resp: 79314
Ion Ratio Lower Upper
75 100
110 8.0 17.5 52.6#
77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.596 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

Instrument :

MSVOA_N

ClientSampleId :

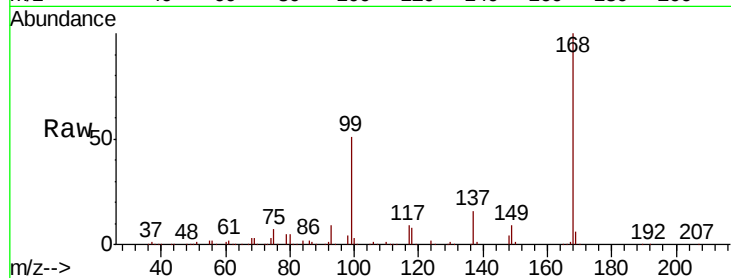
Tot Ion:117 Resp: 101922

Ion Ratio Lower Upper

117 100

119 4.9 76.8 115.2#

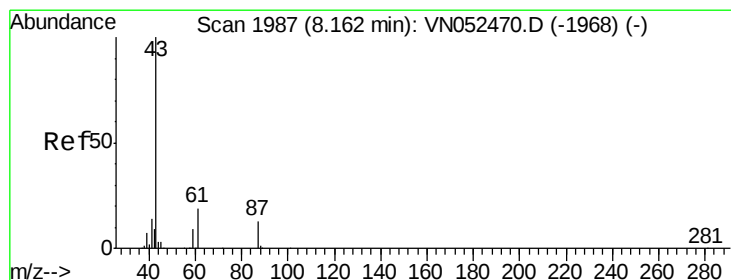
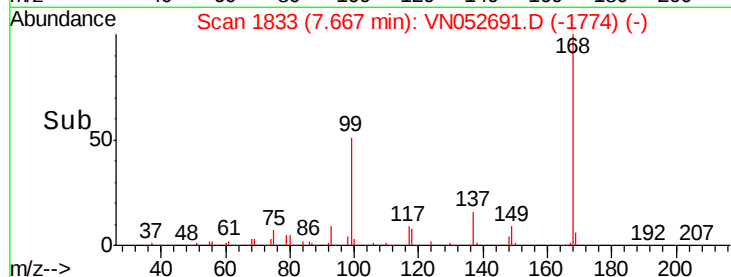
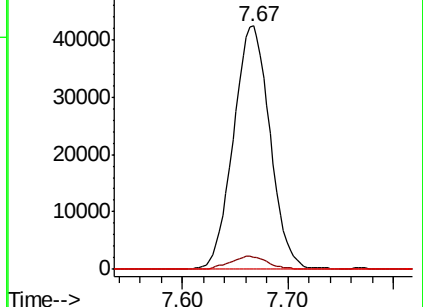
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.274 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.10 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

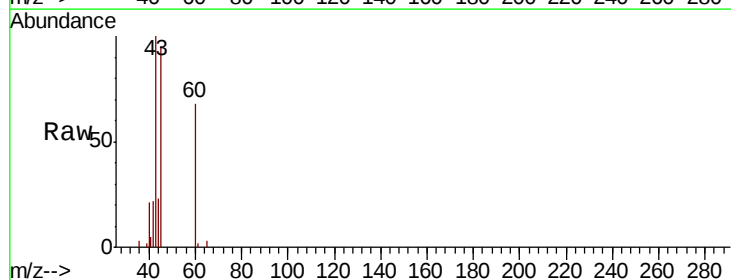
Tgt Ion: 43 Resp: 22457

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

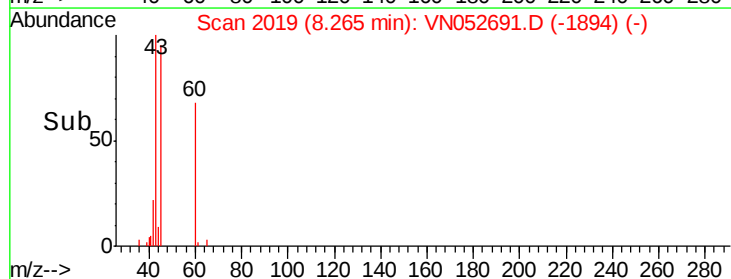
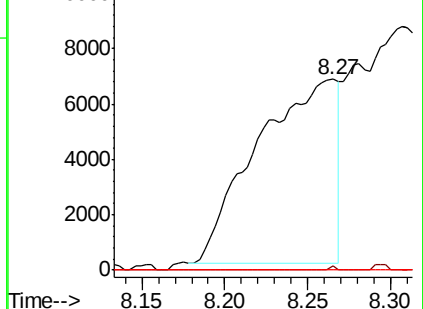
87 0.0 10.6 15.8#

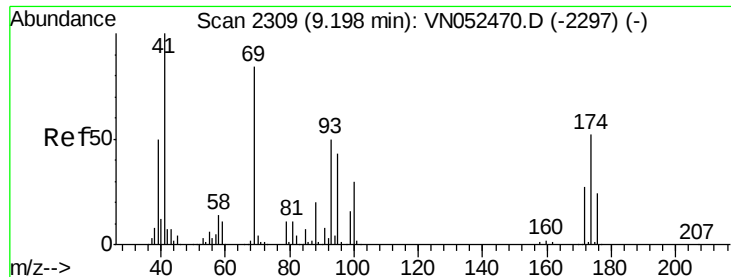


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

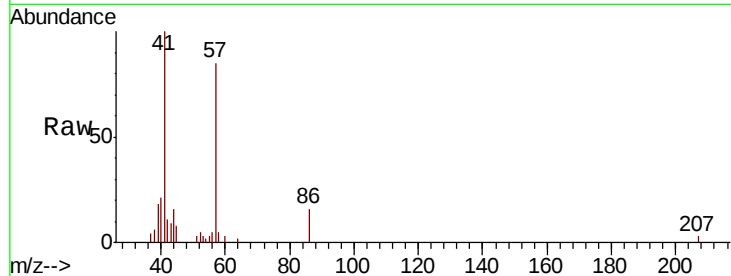




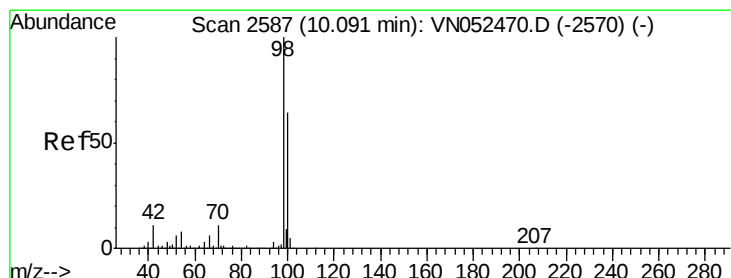
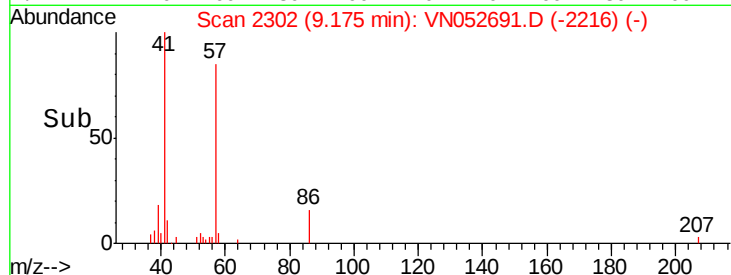
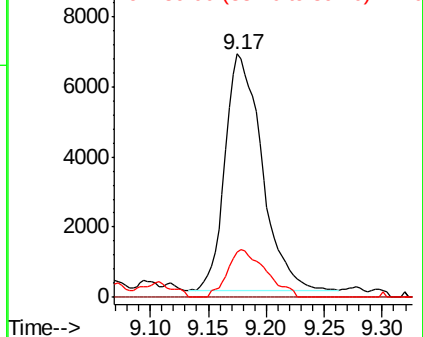
#48
Methvl methacrylate
Concen: 1.615 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 14845
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 20.7 42.6 64.0#

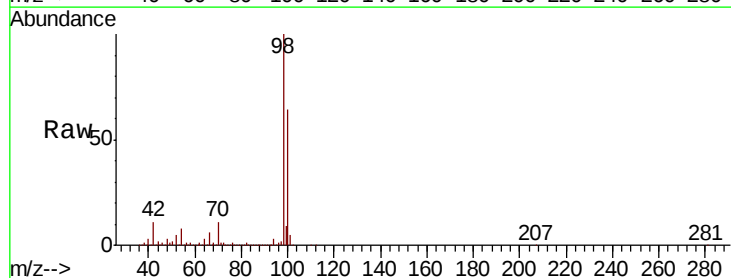


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

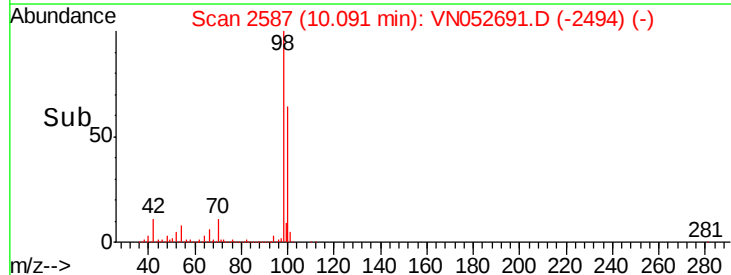
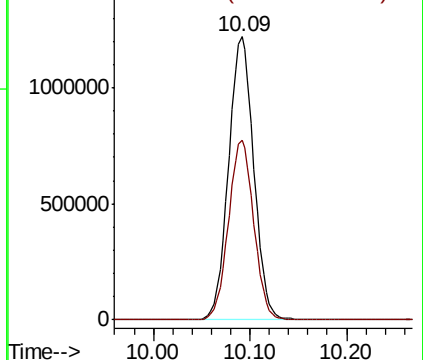


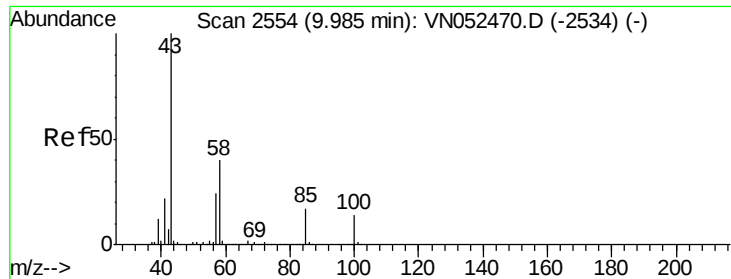
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion: 98 Resp: 2200025
Ion Ratio Lower Upper
98 100
100 63.8 51.3 76.9



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

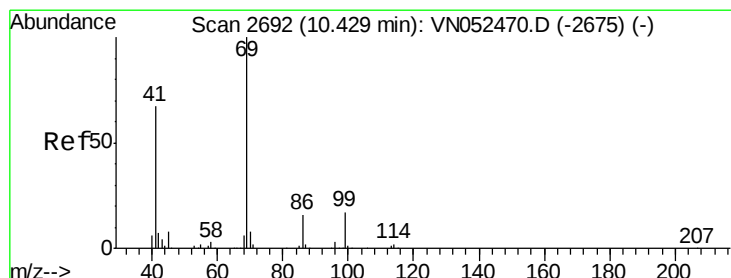
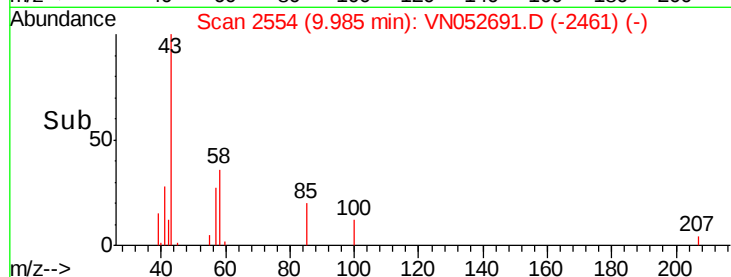
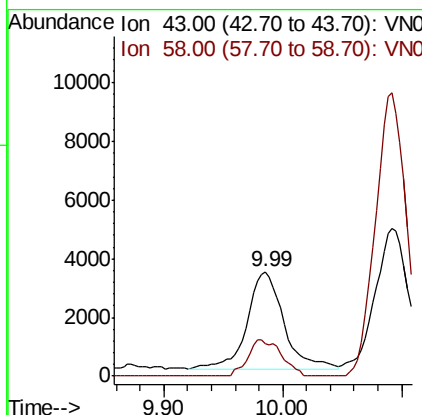
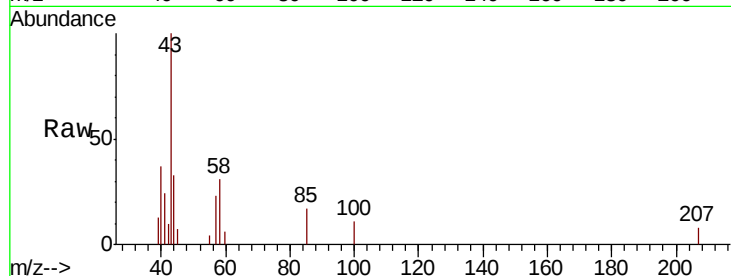




#51
4-Methyl-2-Pentanone
Concen: 0.708 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

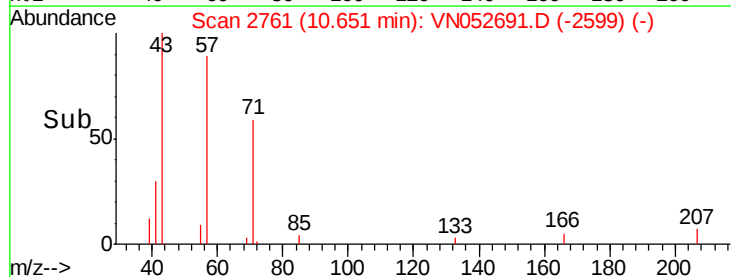
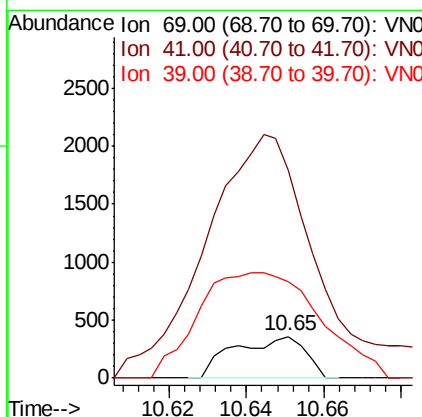
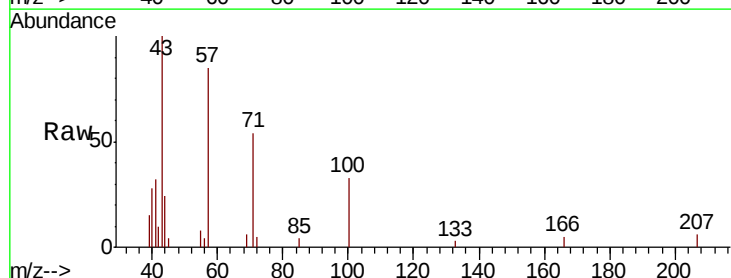
Instrument :
MSVOA_N
ClientSampleId :

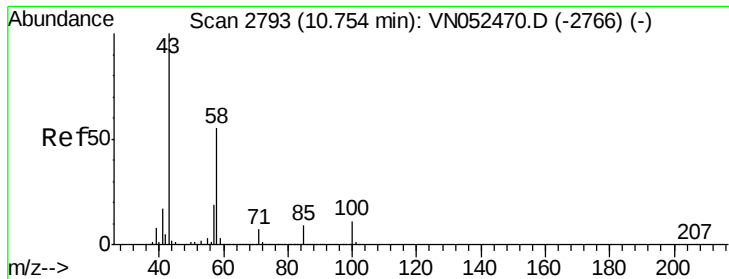
Tot Ion: 43 Resp: 7004
Ion Ratio Lower Upper
43 100
58 34.5 31.5 47.3



#56
Ethyl methacrylate
Concen: 2.722 ug/l
RT: 10.65 min Scan# 2761
Delta R.T. 0.22 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion: 69 Resp: 454
Ion Ratio Lower Upper
69 100
41 922.0 52.6 79.0#
39 437.7 25.9 38.9#

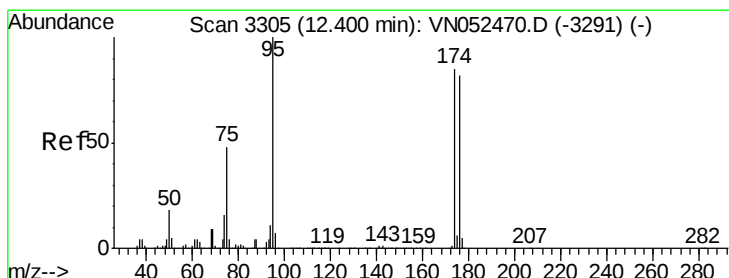
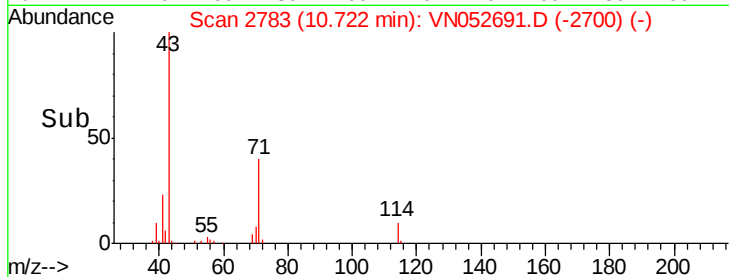
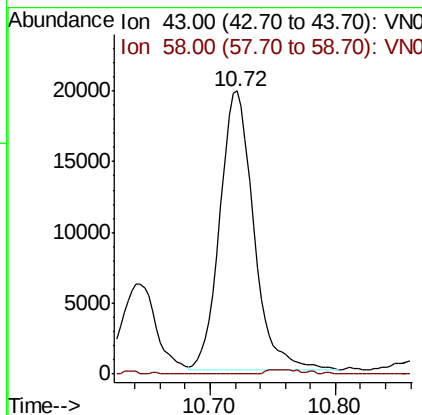
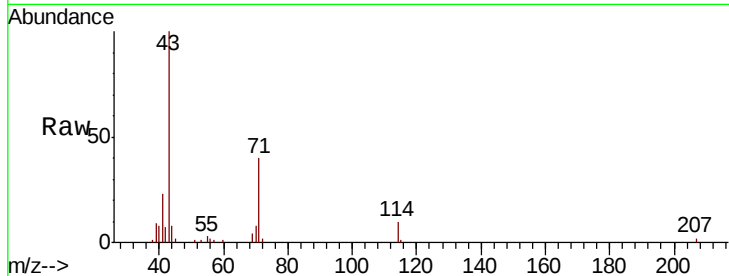




#59
2-Hexanone
Concen: 5.519 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. -0.03 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

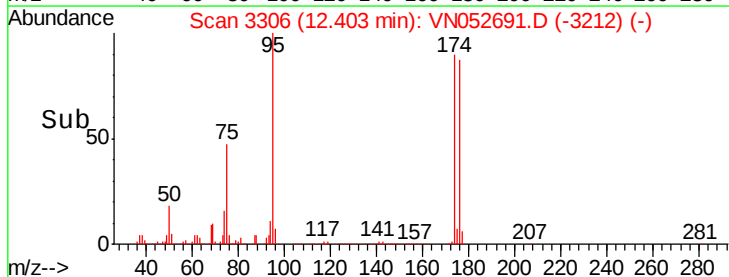
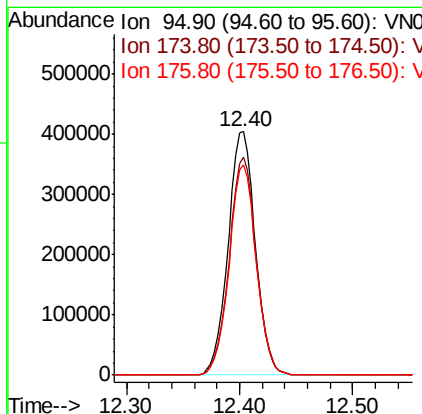
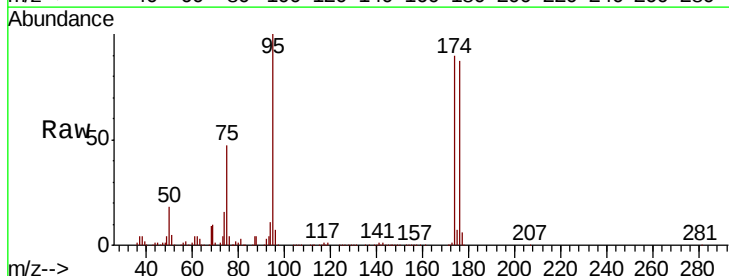
Instrument :
MSVOA_N
ClientSampled :

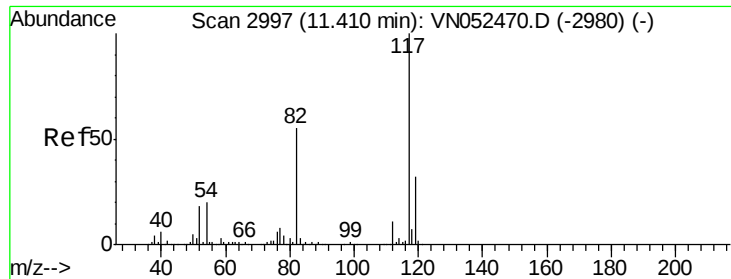
Tot Ion: 43 Resp: 36635
Ion Ratio Lower Upper
43 100
58 0.0 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion: 95 Resp: 678046
Ion Ratio Lower Upper
95 100
174 88.6 0.0 173.0
176 85.7 0.0 166.2

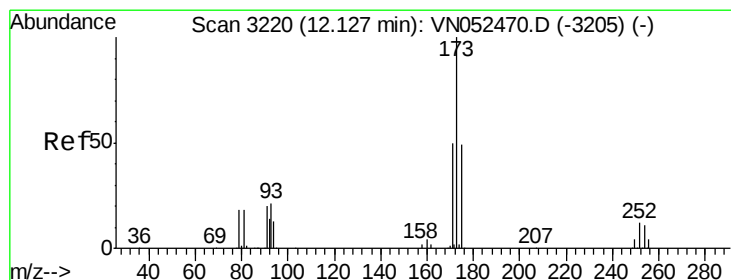
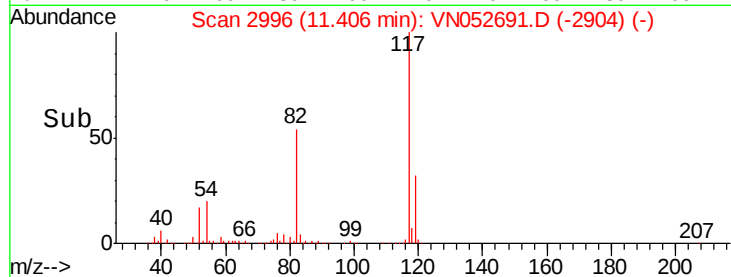
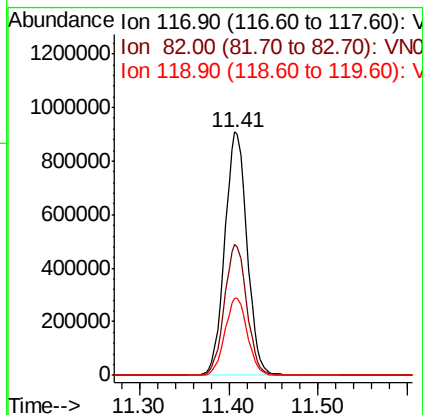
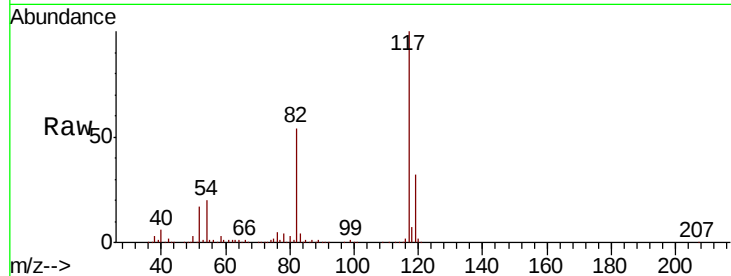




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

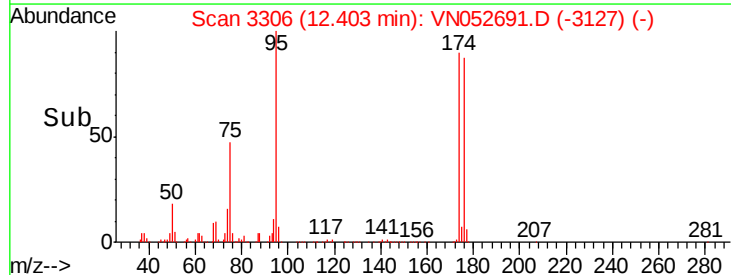
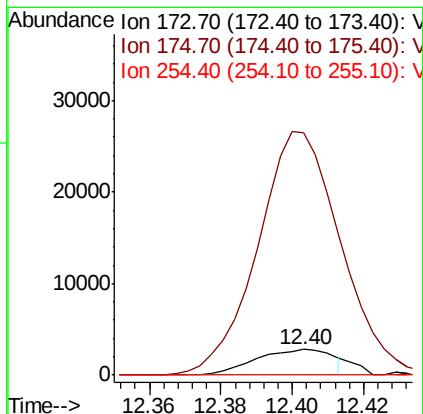
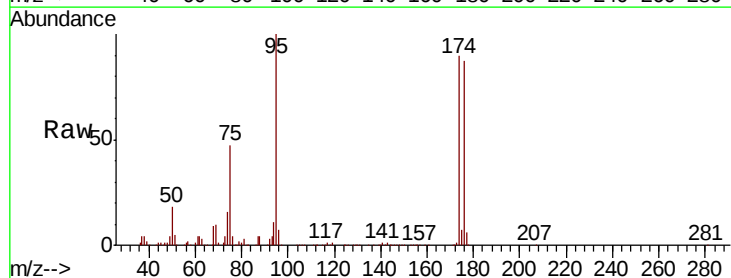
Instrument :
MSVOA_N
ClientSampled :

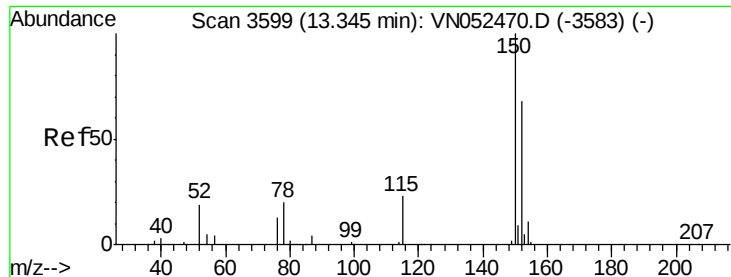
Tot Ion:117 Resp: 1565715
Ion Ratio Lower Upper
117 100
82 53.9 43.6 65.4
119 31.8 25.4 38.2



#71
Bromoform
Concen: 0.568 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052691.D
Acq: 6 Dec 2018 11:04

Tgt Ion:173 Resp: 4224
Ion Ratio Lower Upper
173 100
175 882.1 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

Instrument :

MSVOA_N

ClientSampleId :

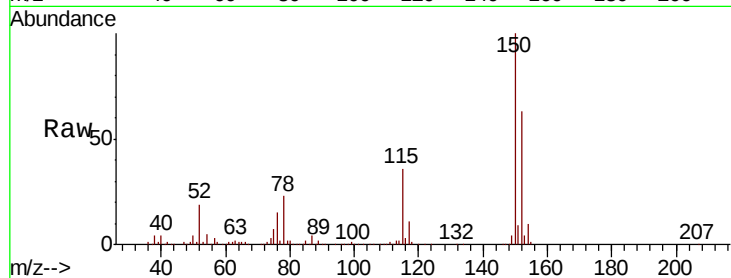
Tot Ion:152 Resp: 574969

Ion Ratio Lower Upper

152 100

115 56.2 28.4 85.2

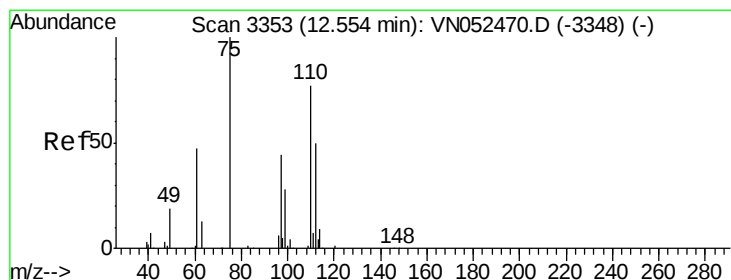
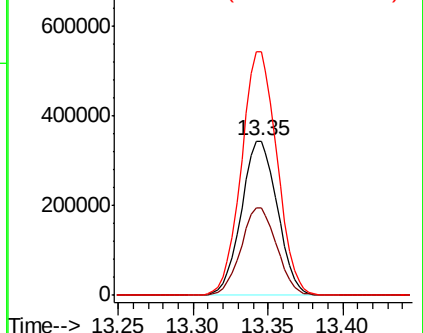
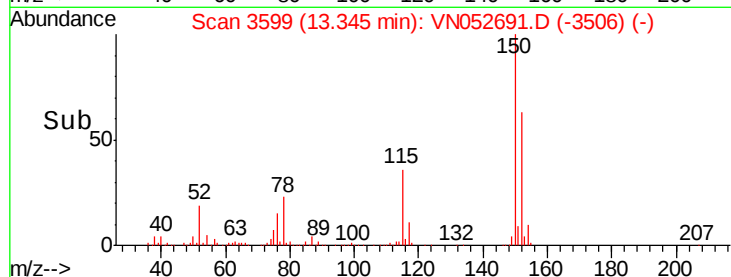
150 156.1 0.0 346.0



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: 36.429 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052691.D

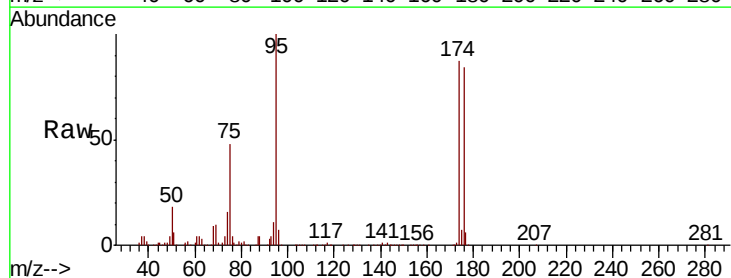
Acq: 6 Dec 2018 11:04

Tgt Ion: 75 Resp: 322988

Ion Ratio Lower Upper

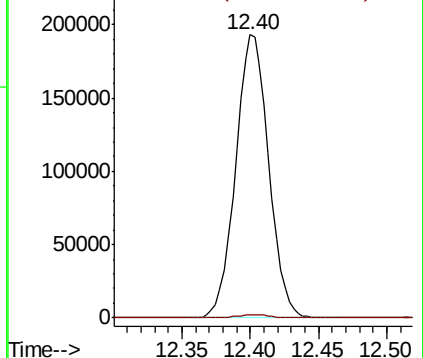
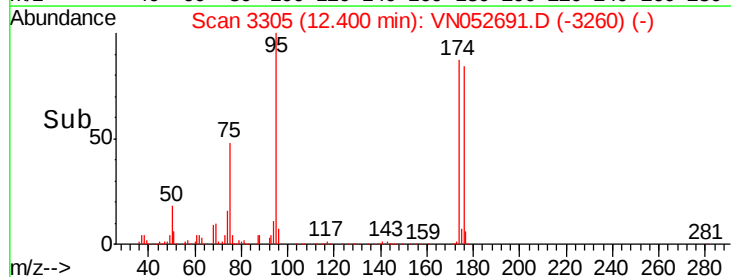
75 100

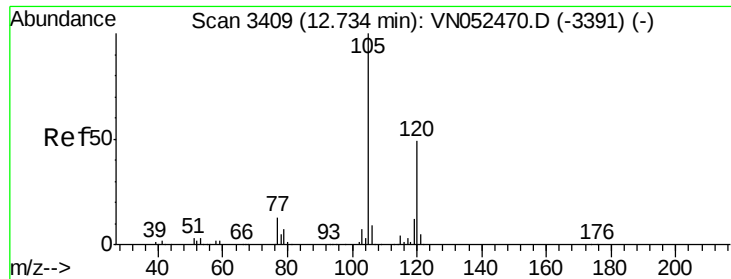
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.378 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

Instrument :

MSVOA_N

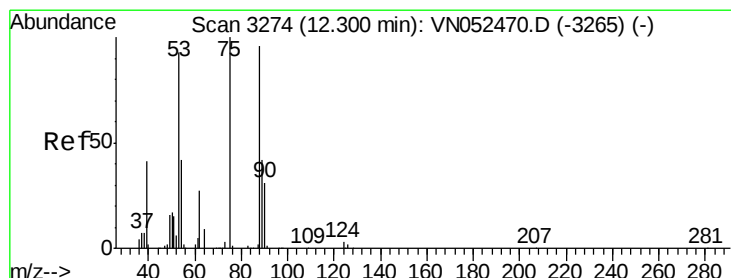
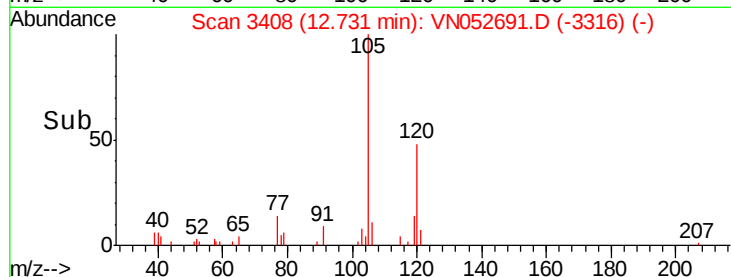
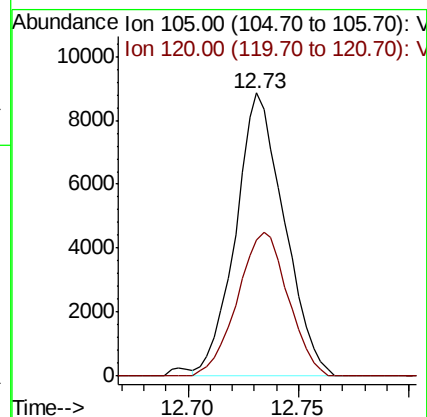
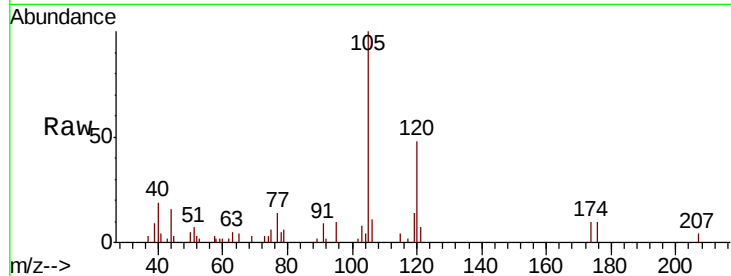
ClientSampleId :

Tot Ion:105 Resp: 13585

Ion Ratio Lower Upper

105 100

120 52.7 24.3 73.0



#81

trans-1,4-Dichloro-2-butene

Concen: 121.654 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052691.D

Acq: 6 Dec 2018 11:04

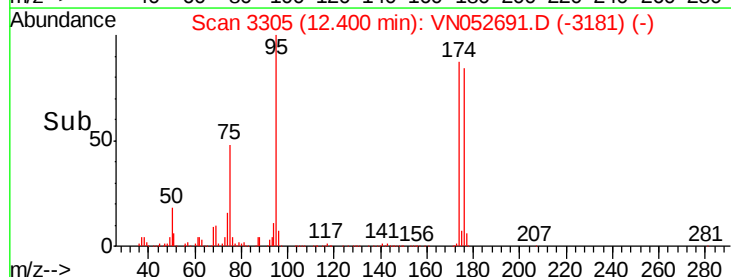
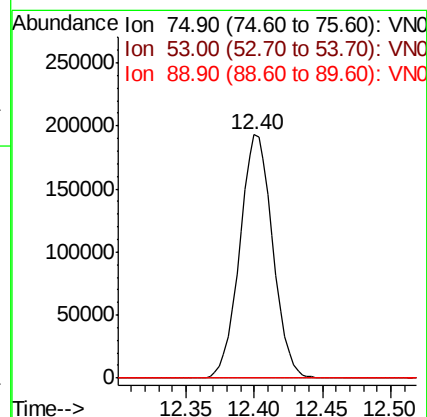
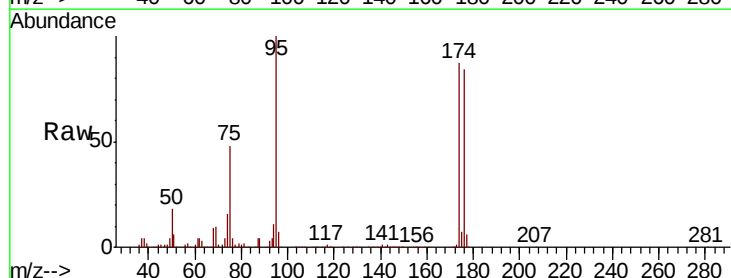
Tgt Ion: 75 Resp: 322988

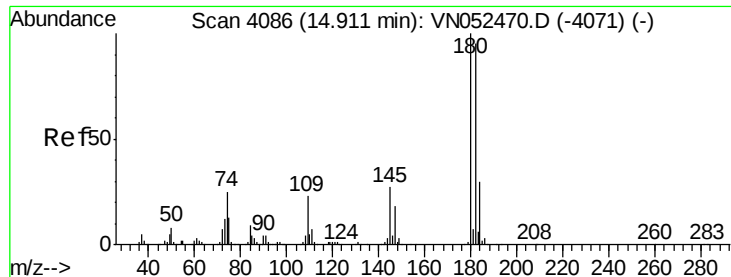
Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

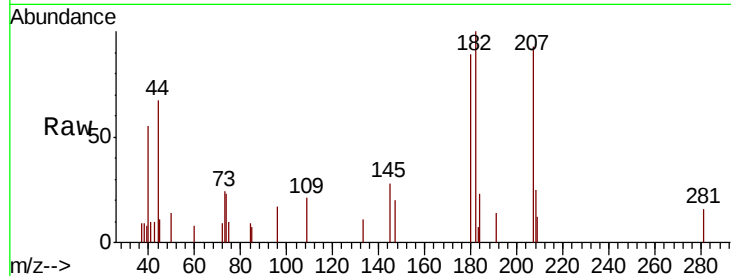




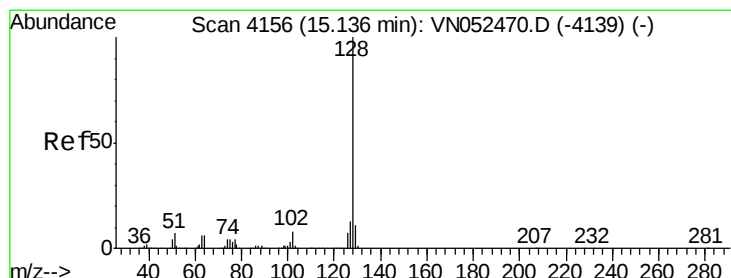
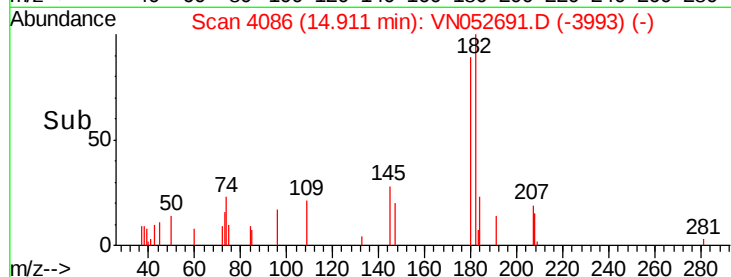
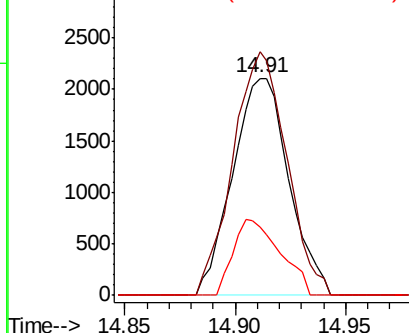
#93
 1,2,4-Trichlorobenzene
 Concen: 3.174 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052691.D
 Acq: 6 Dec 2018 11:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 3724
 Ion Ratio Lower Upper
 180 100
 182 107.3 47.8 143.4
 145 29.1 14.1 42.3

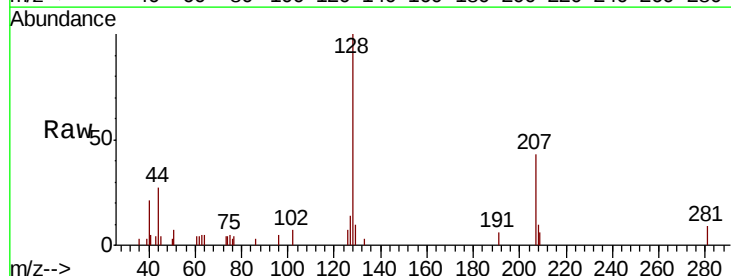


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

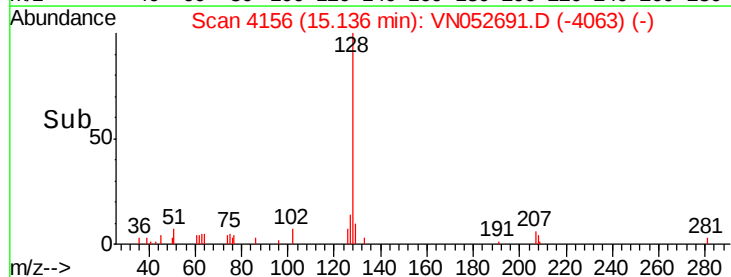
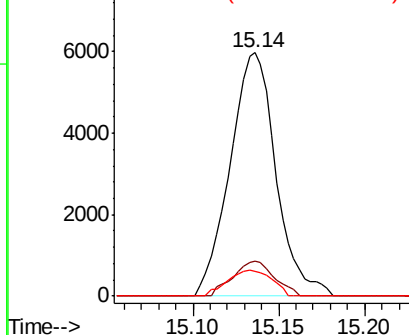


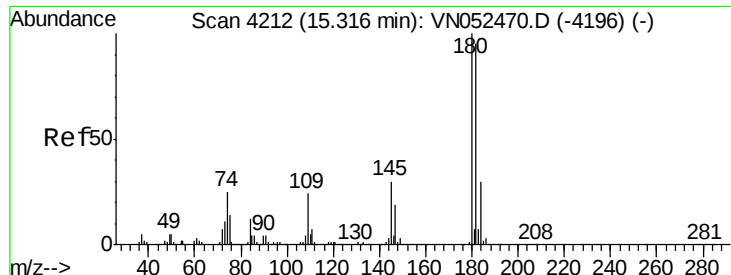
#95
 Naphthalene
 Concen: 3.906 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN052691.D
 Acq: 6 Dec 2018 11:04

Tgt Ion:128 Resp: 11102
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.2 15.2
 129 10.3 8.7 13.1



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

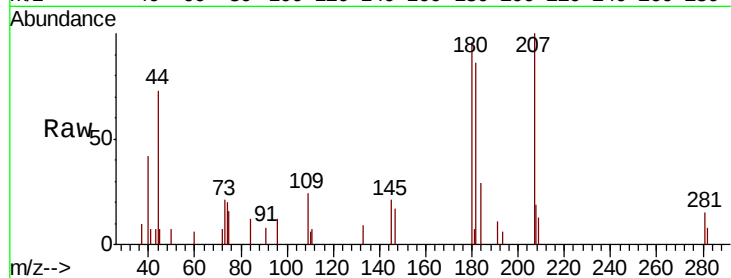




#96
 1,2,3-Trichlorobenzene
 Concen: 3.210 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN052691.D
 Acq: 6 Dec 2018 11:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.8	143.3
145	26.8	15.2	45.5



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

