

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054690.D
 Acq On : 26 Mar 2019 11:28
 Operator : JC/SP
 Sample : K2056-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:05:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	560042	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	884762	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	747953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	255645	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	361837	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
35) Dibromofluoromethane	7.59	113	283551	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	10.09	98	1069318	49.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	319783	43.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.70%	

Target Compounds

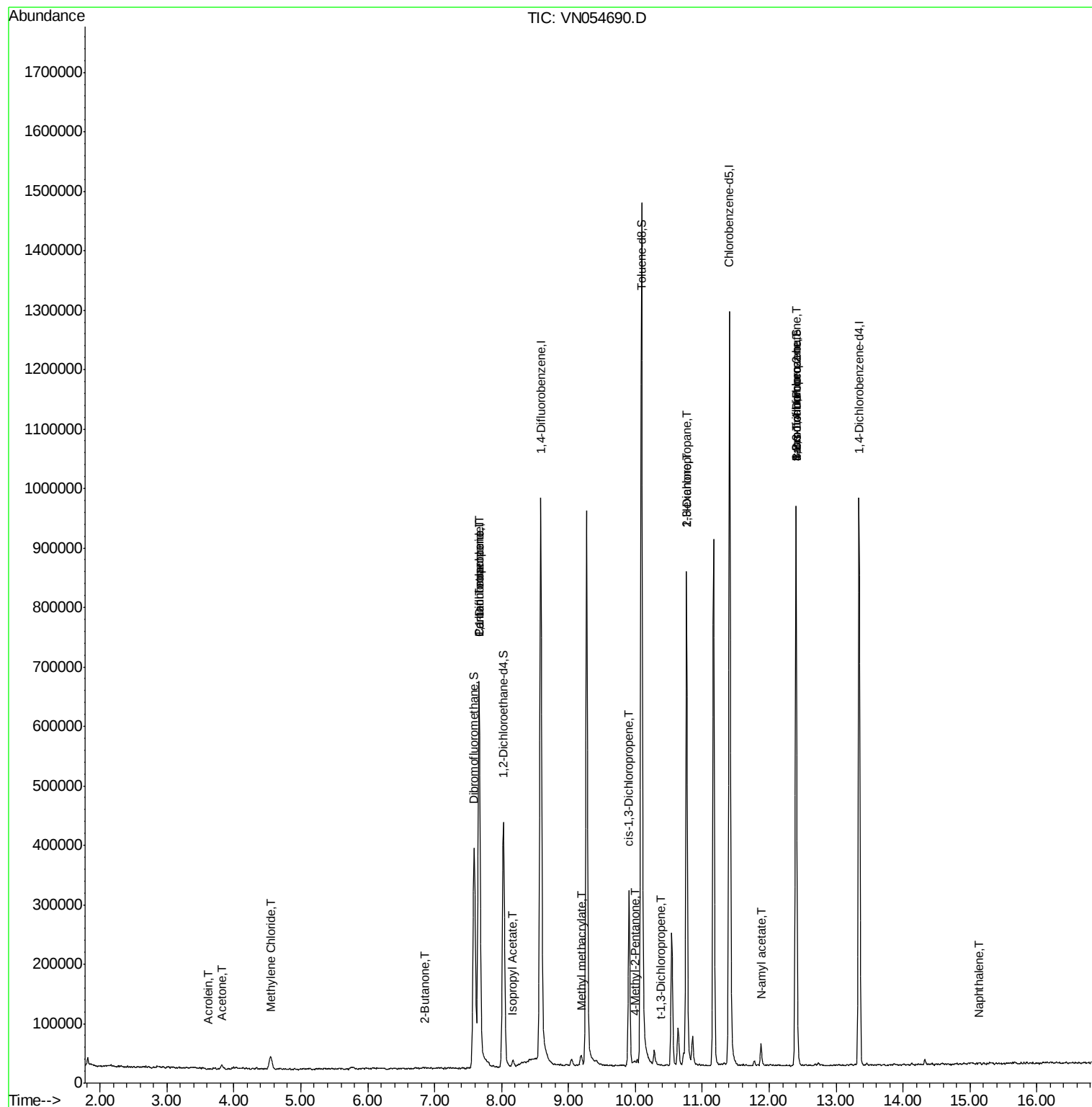
					Qvalue	
13) Acrolein	3.61	56	194	0.333	ug/l #	14
16) Acetone	3.82	43	11124	5.311	ug/l #	77
20) Methylene Chloride	4.54	84	6420	1.040	ug/l #	80
25) 2-Butanone	6.85	43	1046	0.390	ug/l #	46
31) Cyclohexane	7.67	56	11776	Below Cal	#	28
36) 1,1-Dichloropropene	7.66	75	41164	4.976	ug/l #	48
38) Carbon Tetrachloride	7.66	117	53447	6.648	ug/l #	15
43) Isopropyl Acetate	8.17	43	13360	1.344	ug/l #	92
48) Methyl methacrylate	9.18	41	6737	1.249	ug/l #	25
51) 4-Methyl-2-Pentanone	9.99	43	4767	0.866	ug/l	95
53) t-1,3-Dichloropropene	10.37	75	160	2.250	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	48926	5.426	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	8641	0.950	ug/l #	43
59) 2-Hexanone	10.76	43	137022	38.092	ug/l #	48
71) Bromoform	12.40	173	2825	2.938	ug/l #	1
74) N-amyl acetate	11.88	43	12073	2.038	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	166864	41.133	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166864	135.977	ug/l #	11
94) Hexachlorobutadiene	15.01	225	71	Below Cal	#	3
95) Naphthalene	15.14	128	1850	0.203	ug/l #	74

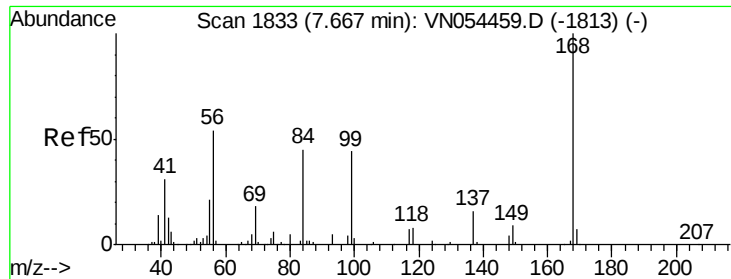
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Mar 27 04:05:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

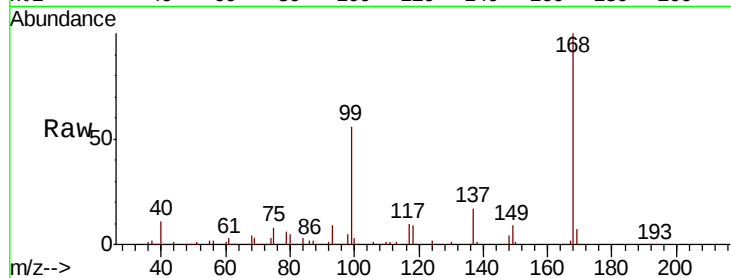
ClientSampled :

Tot Ion:168 Resp: 560042

Ion Ratio Lower Upper

168 100

99 56.0 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054459.D (-1813) (-)

7.66

250000

200000

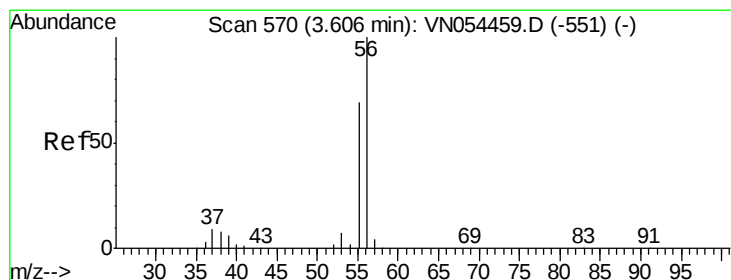
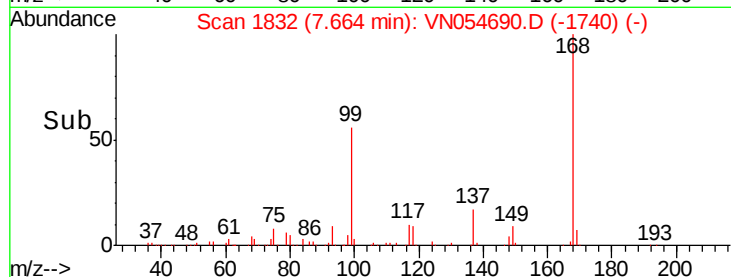
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.333 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054690.D

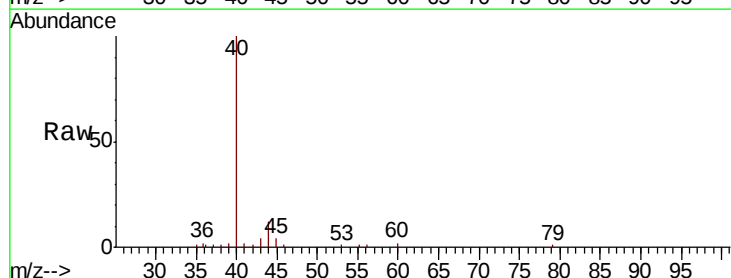
Acq: 26 Mar 2019 11:28

Tgt Ion: 56 Resp: 194

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054459.D (-551) (-)

Ion 55.00 (54.70 to 55.70): VN054459.D (-551) (-)

3.61

250

200

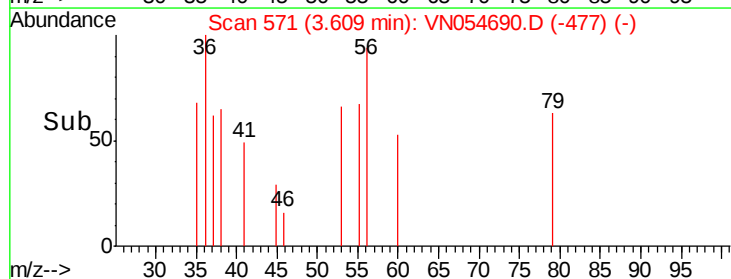
150

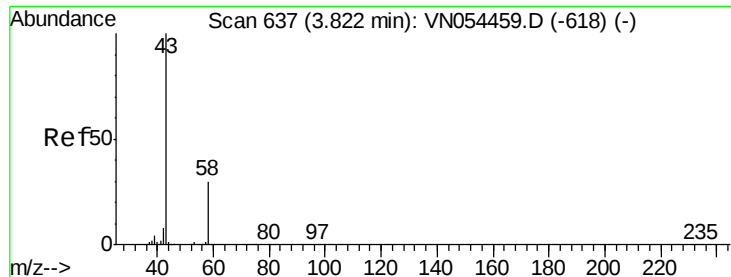
100

50

0

Time-->





#16

Acetone

Concen: 5.311 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

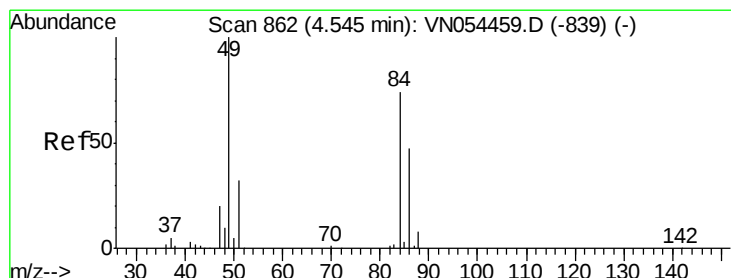
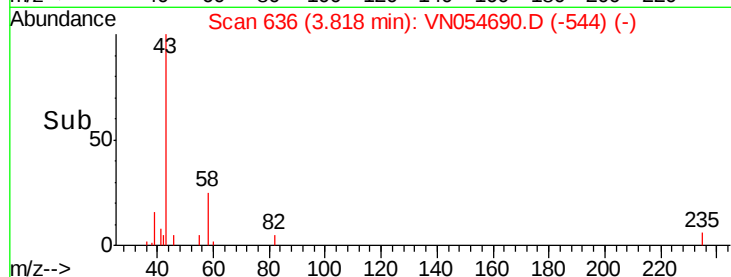
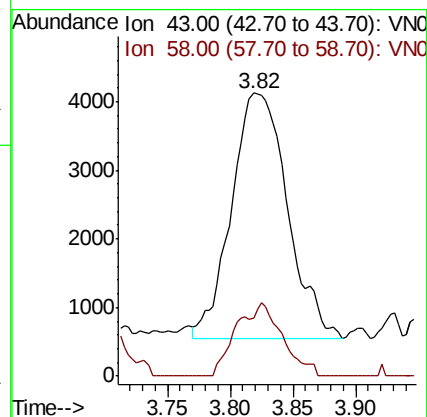
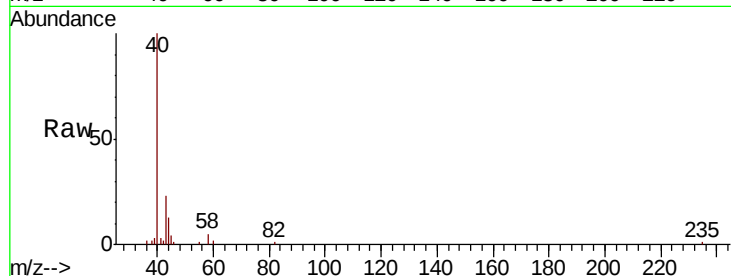
ClientSampleId :

Tot Ion: 43 Resp: 11124

Ion Ratio Lower Upper

43 100

58 23.4 29.9 44.9#



#20

Methylene Chloride

Concen: 1.040 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Tgt Ion: 84 Resp: 6420

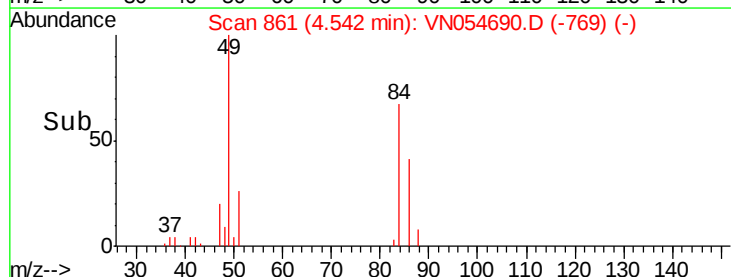
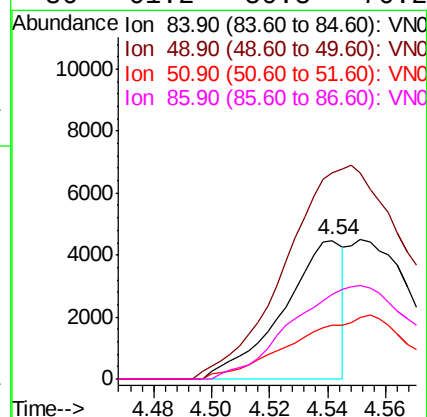
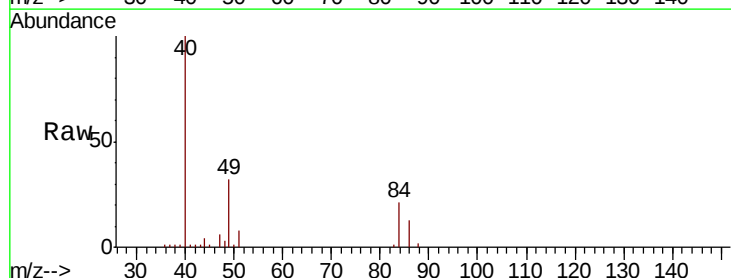
Ion Ratio Lower Upper

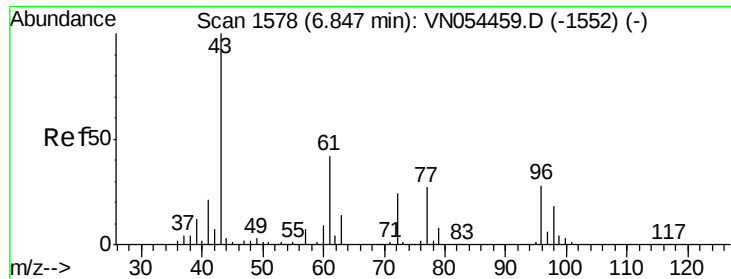
84 100

49 148.9 89.7 134.5#

51 38.5 28.2 42.4

86 61.2 50.8 76.2





#25

2-Butanone

Concen: 0.390 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

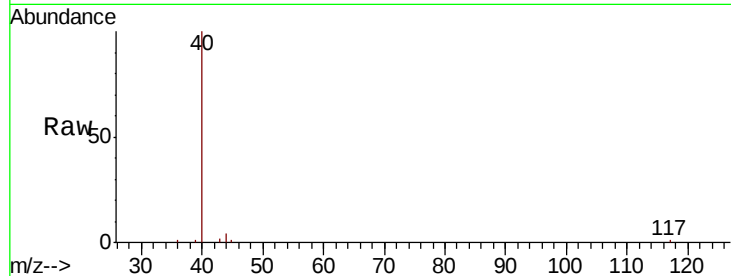
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1046

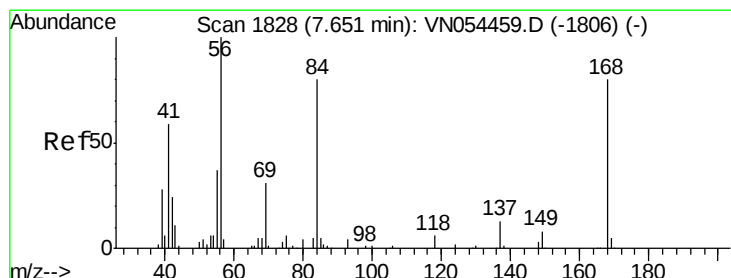
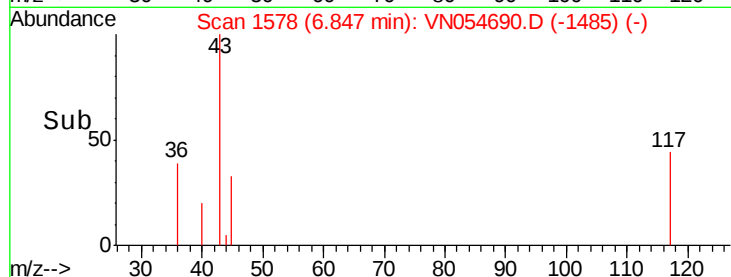
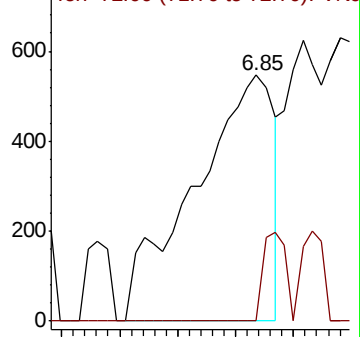
Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1552) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

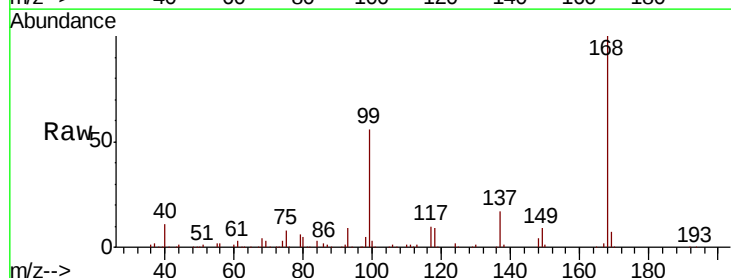
Tgt Ion: 56 Resp: 11776

Ion Ratio Lower Upper

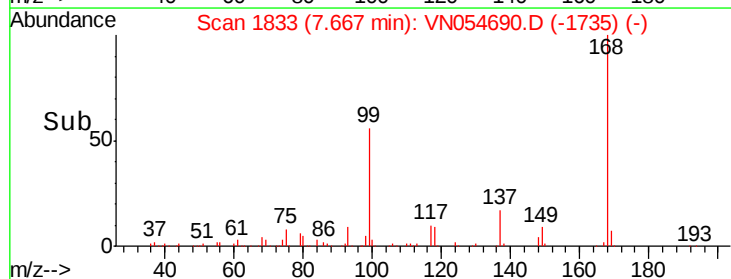
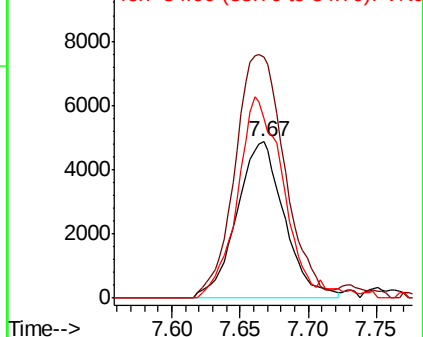
56 100

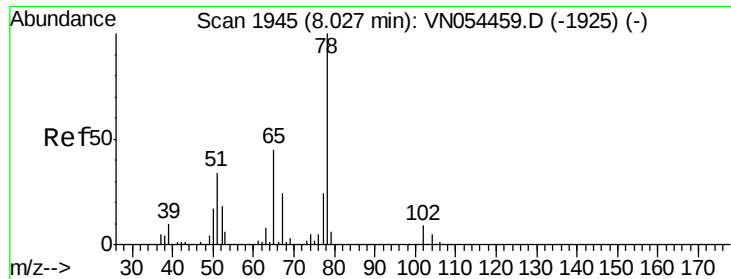
69 154.3 27.8 41.6#

84 114.4 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN054459.D (-1806) (-)

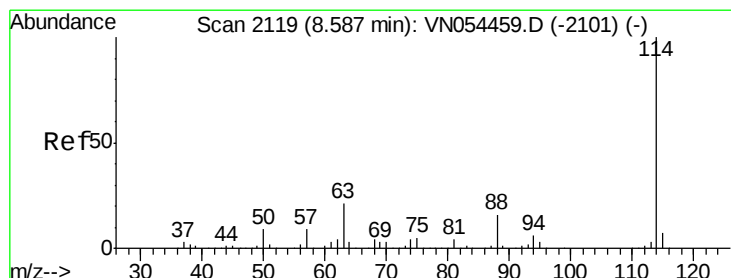
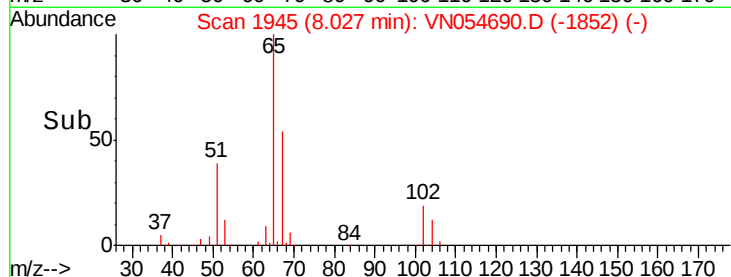
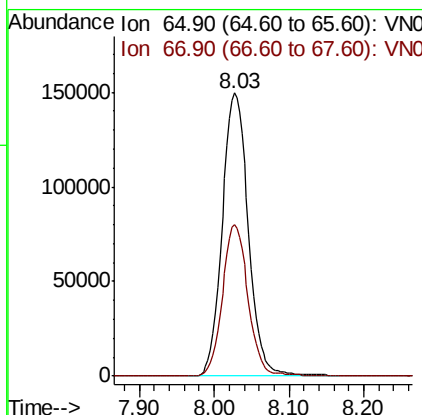
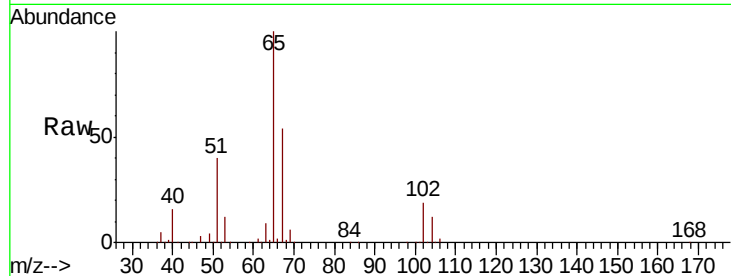




#33
 1,2-Dichloroethane-d4
 Concen: 51.943 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054690.D
 Acq: 26 Mar 2019 11:28

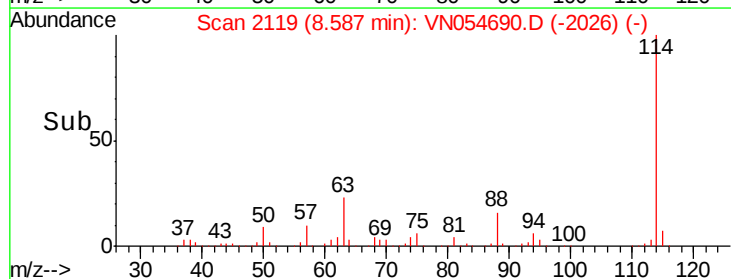
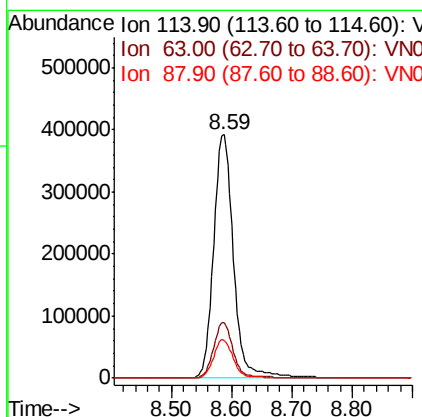
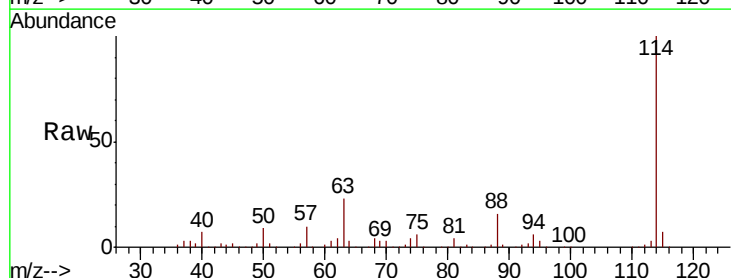
Instrument :
 MSVOA_N
 ClientSampleId :

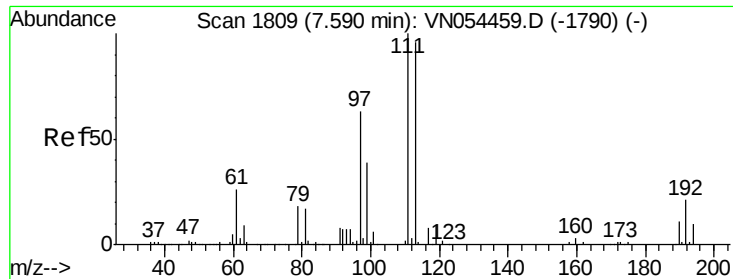
Tot Ion: 65 Resp: 361837
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054690.D
 Acq: 26 Mar 2019 11:28

Tgt Ion: 114 Resp: 884762
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 15.7 0.0 30.2

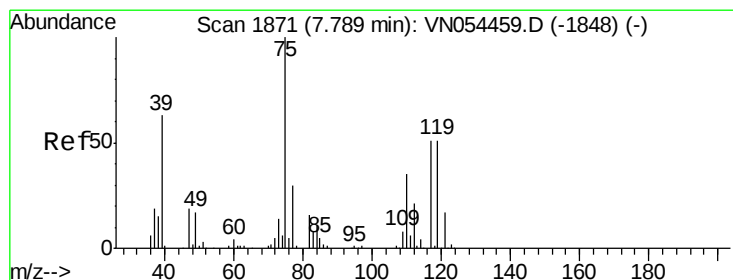
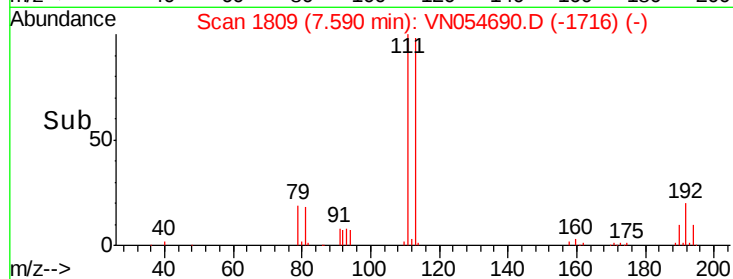
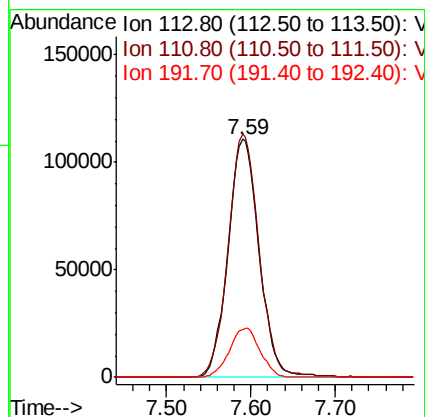
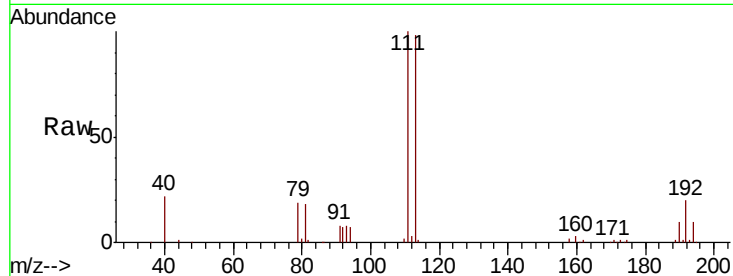




#35
 Dibromofluoromethane
 Concen: 49.745 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054690.D
 Acq: 26 Mar 2019 11:28

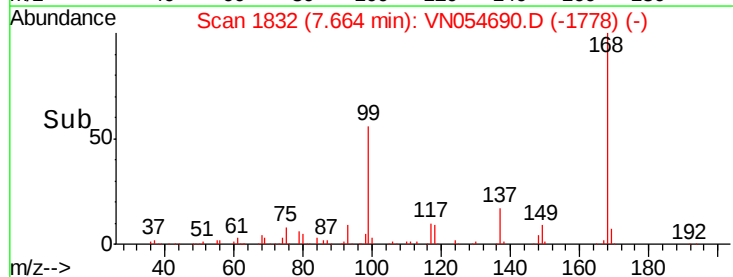
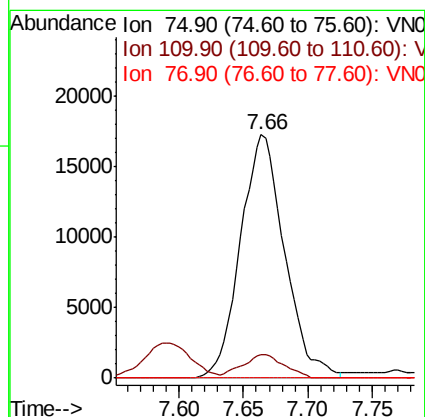
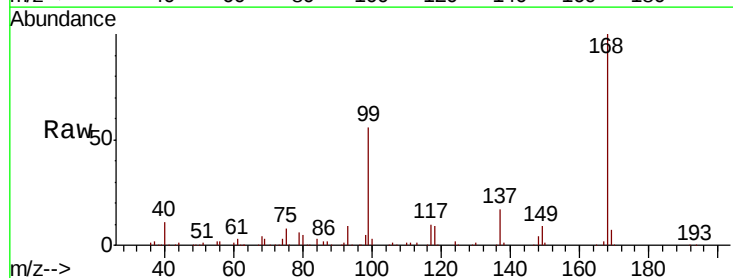
Instrument :
 MSVOA_N
 ClientSampleId :

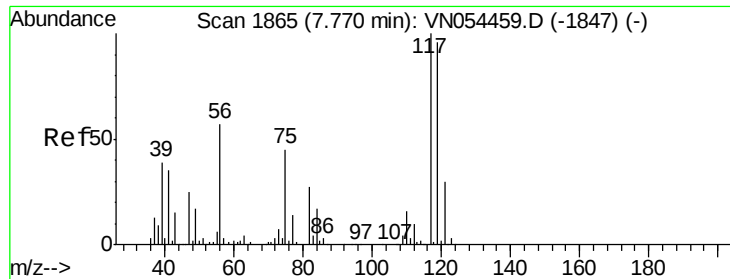
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.2	123.4
192	20.4	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.976 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054690.D
 Acq: 26 Mar 2019 11:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.648 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

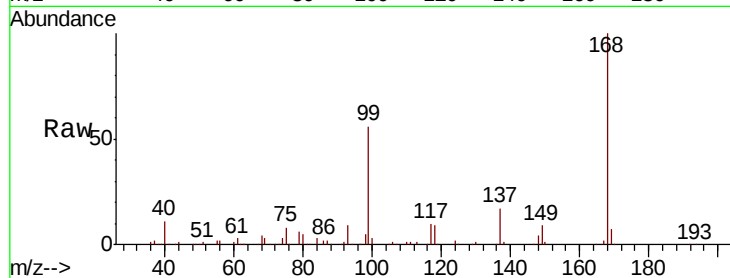
Tot Ion:117 Resp: 53447

Ion Ratio Lower Upper

117 100

119 3.8 76.3 114.5#

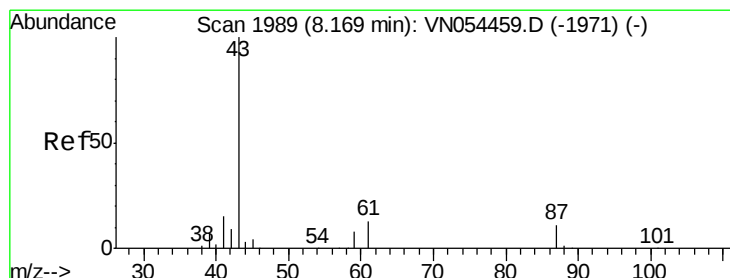
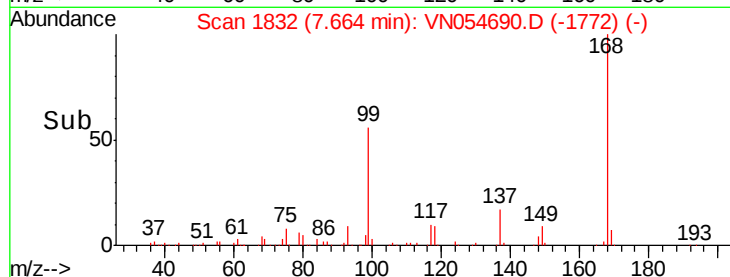
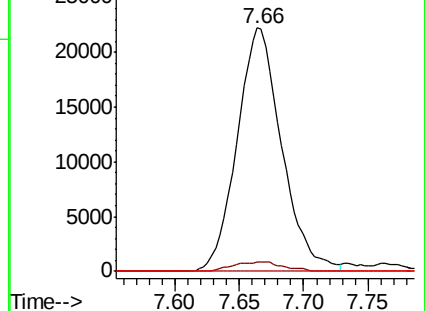
121 0.0 24.6 36.8#



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: 1.344 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

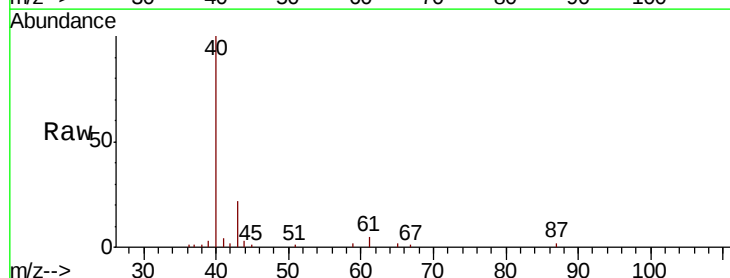
Tgt Ion: 43 Resp: 13360

Ion Ratio Lower Upper

43 100

61 18.4 15.8 23.8

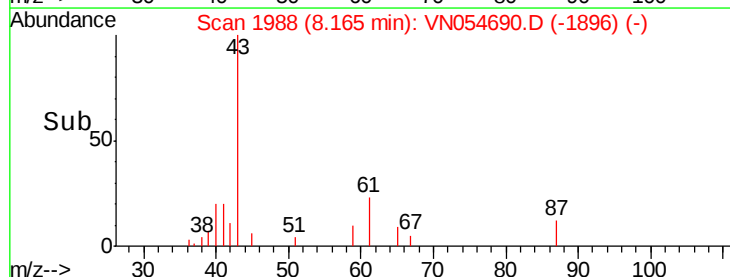
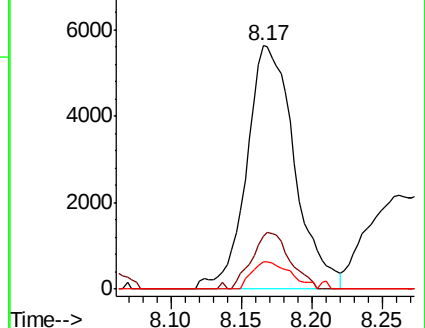
87 9.2 12.0 18.0#

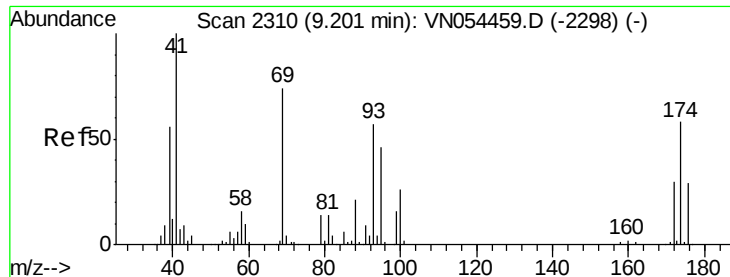


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

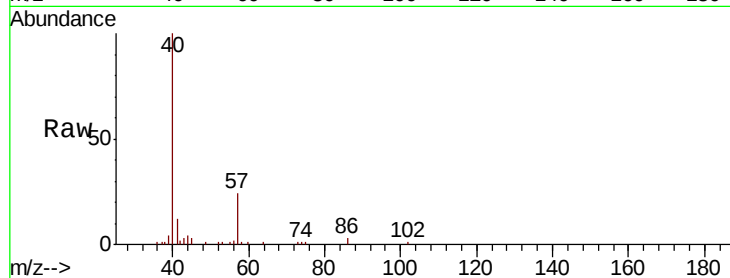




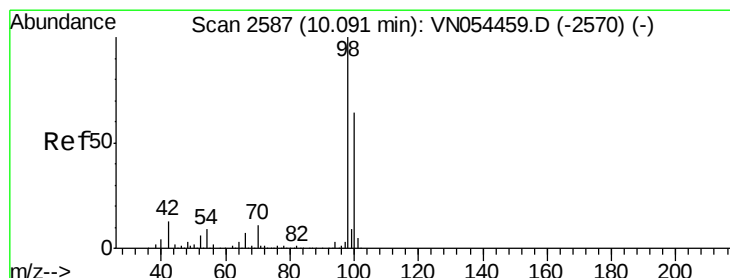
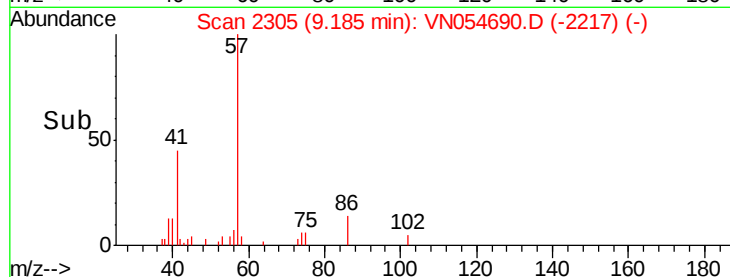
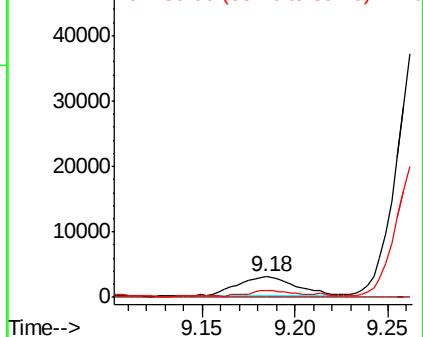
#48
Methyl methacrylate
Concen: 1.249 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 6737
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 27.5 47.5 71.3#

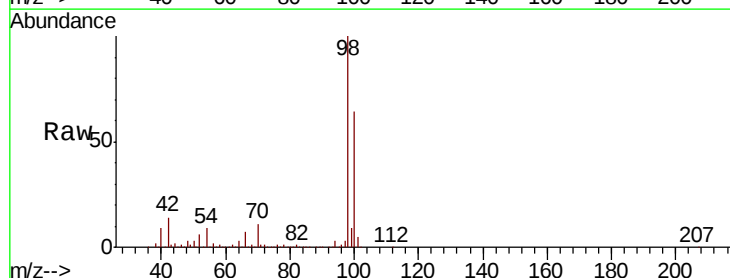


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

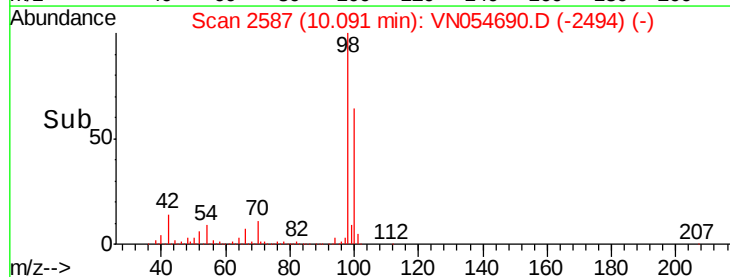
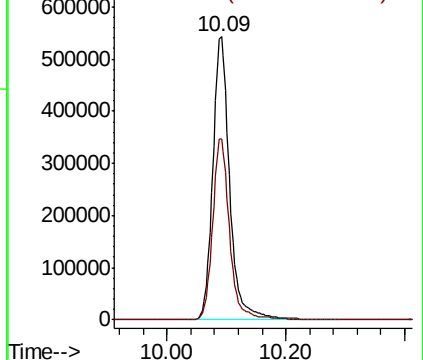


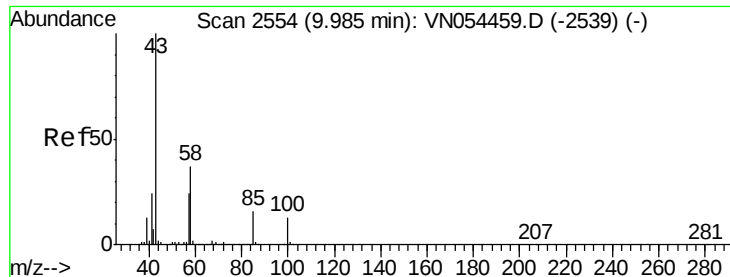
#50
Toluene-d8
Concen: 49.901 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Tgt Ion: 98 Resp: 1069318
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



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: 0.866 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

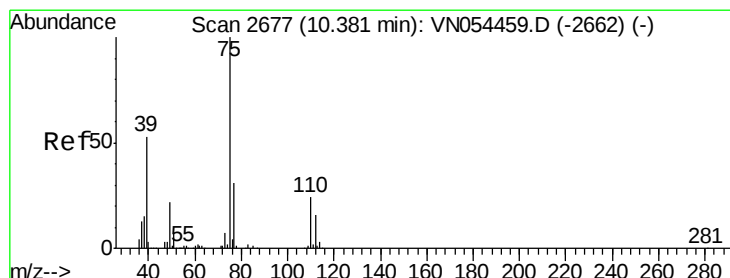
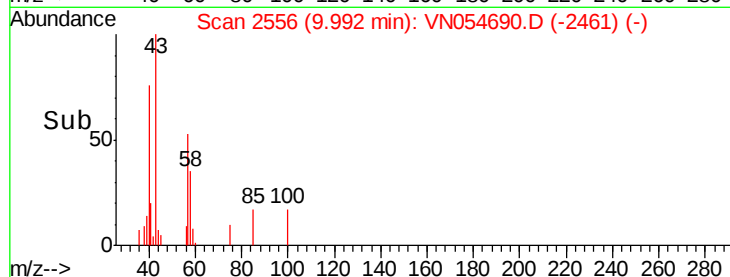
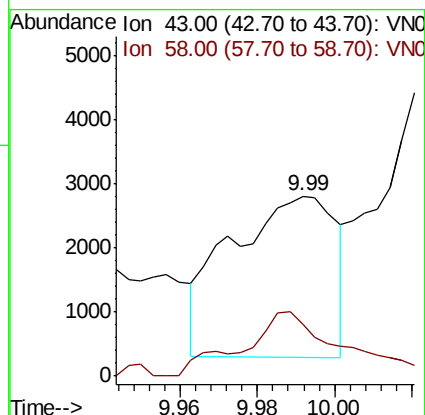
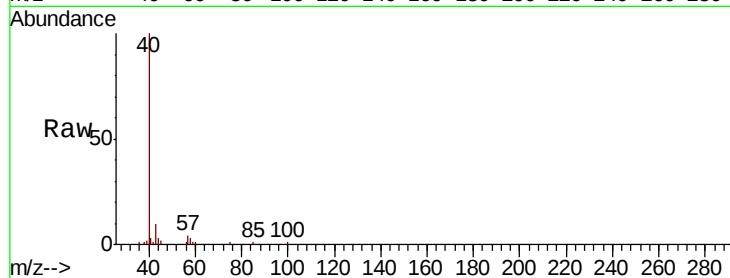
ClientSampled :

Tot Ion: 43 Resp: 4767

Ion Ratio Lower Upper

43 100

58 36.9 31.8 47.6



#53

t-1,3-Dichloropropene

Concen: 2.250 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.01 min

Lab File: VN054690.D

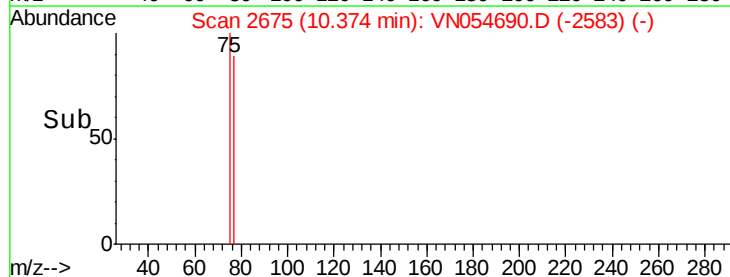
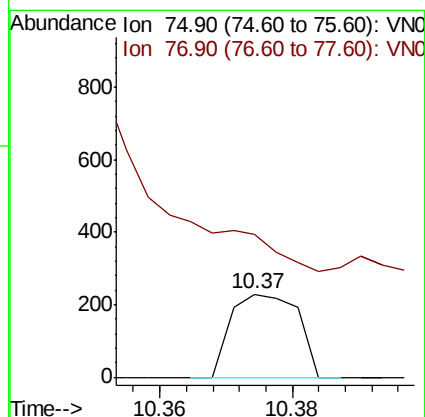
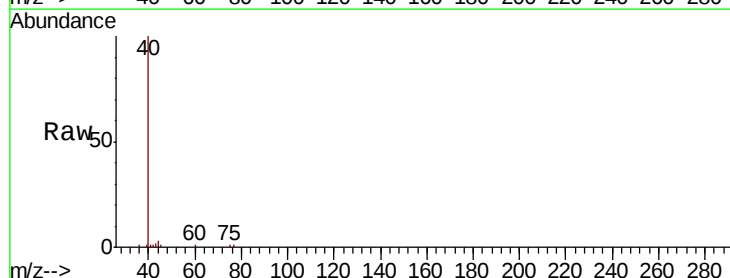
Acq: 26 Mar 2019 11:28

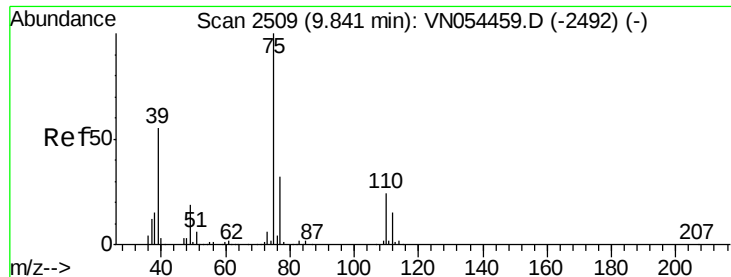
Tgt Ion: 75 Resp: 160

Ion Ratio Lower Upper

75 100

77 39.7 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 5.426 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

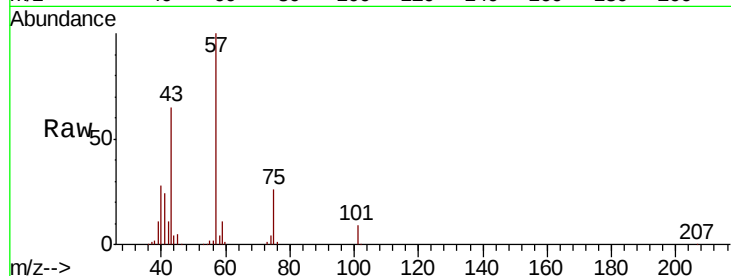
Tot Ion: 75 Resp: 48926

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

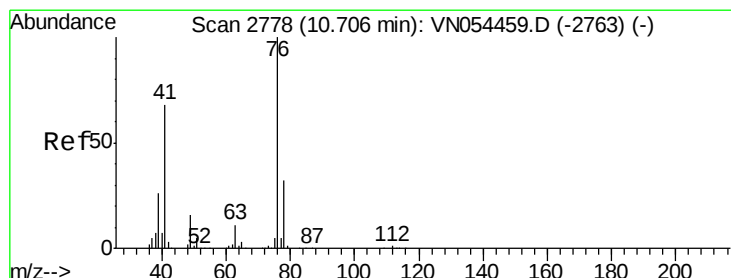
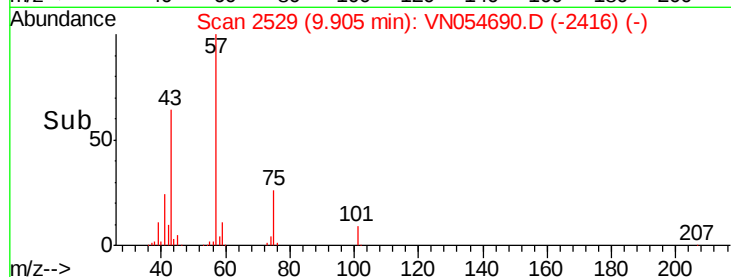
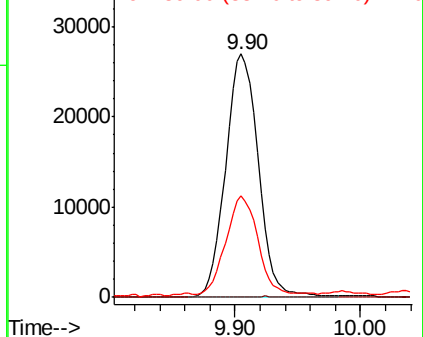
39 40.2 37.2 55.8



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



#57

1,3-Dichloropropane

Concen: 0.950 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054690.D

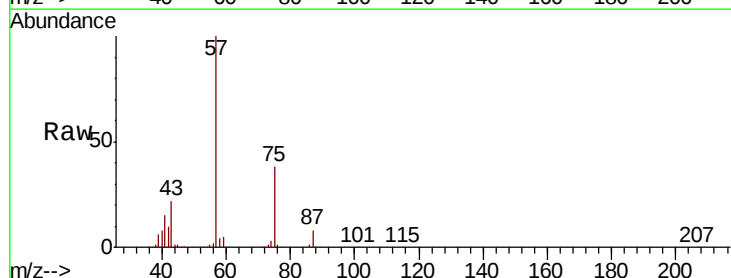
Acq: 26 Mar 2019 11:28

Tgt Ion: 76 Resp: 8641

Ion Ratio Lower Upper

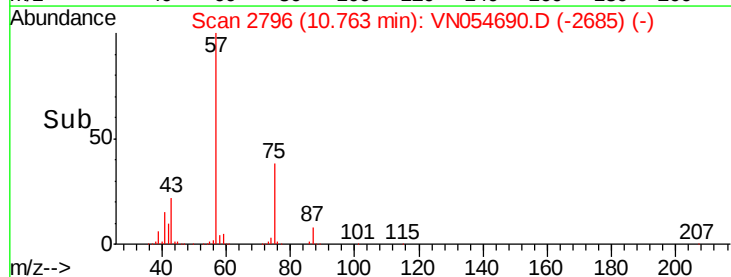
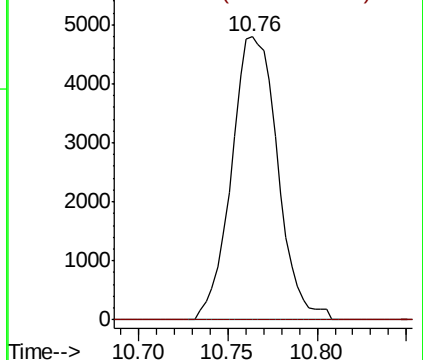
76 100

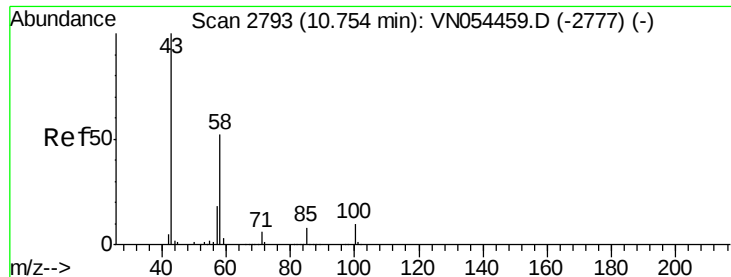
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

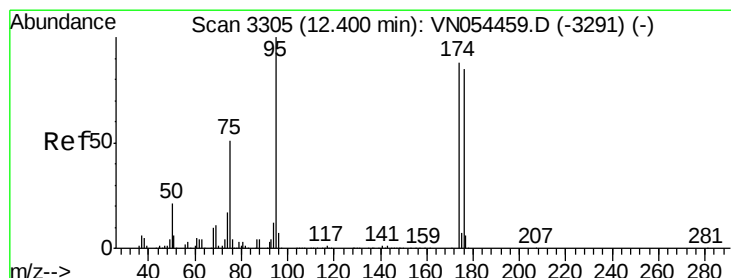
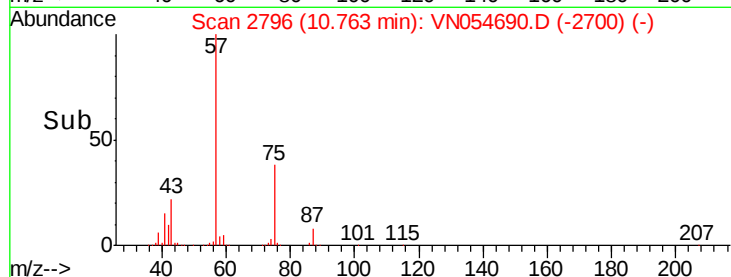
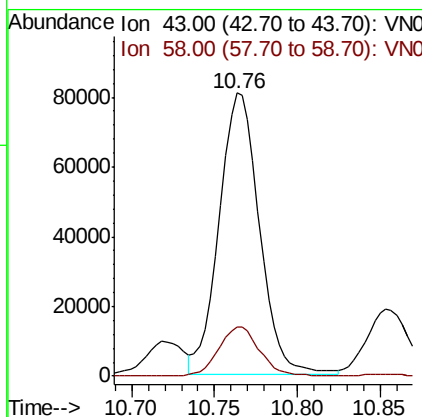
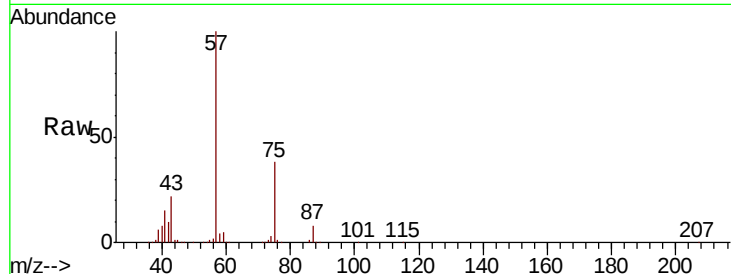




#59
2-Hexanone
Concen: 38.092 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

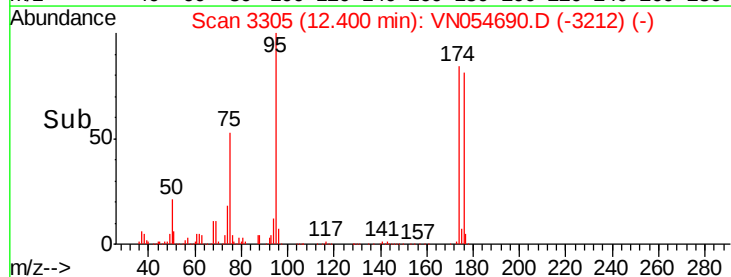
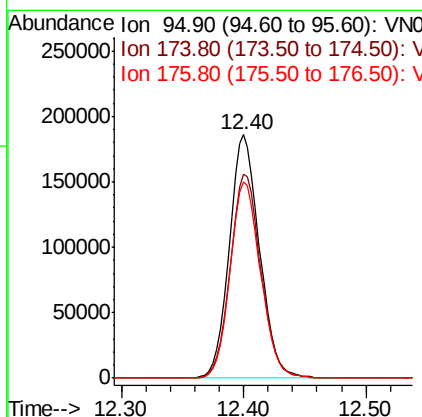
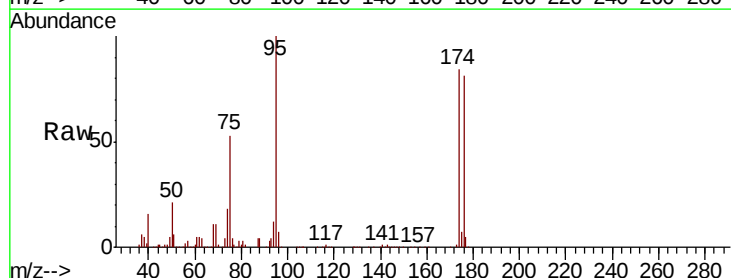
Instrument :
MSVOA_N
ClientSampleId :

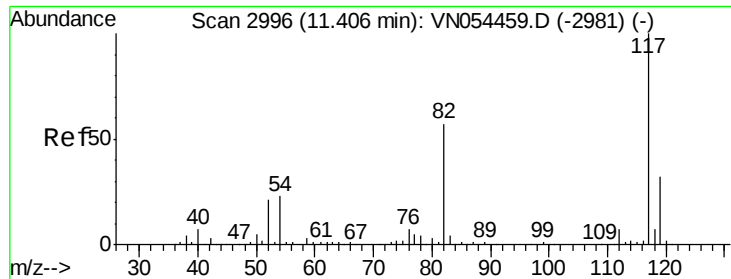
Tot Ion: 43 Resp: 137022
Ion Ratio Lower Upper
43 100
58 17.8 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 43.855 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Tgt Ion: 95 Resp: 319783
Ion Ratio Lower Upper
95 100
174 85.1 0.0 191.0
176 81.4 0.0 187.4

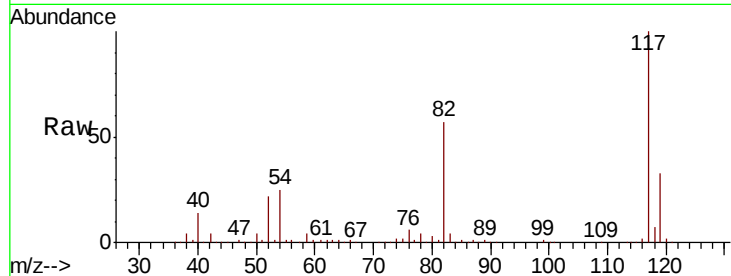




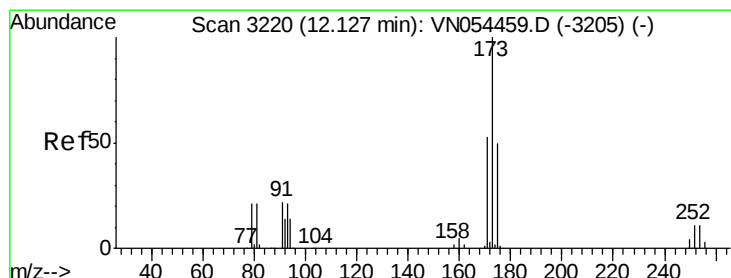
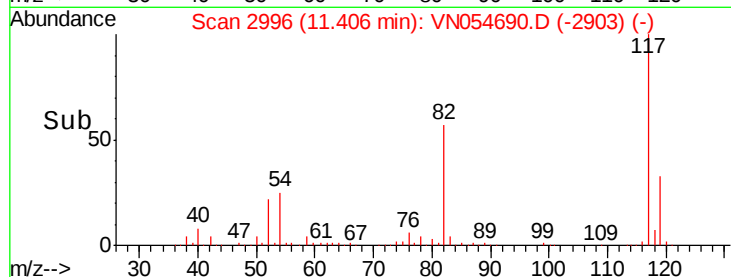
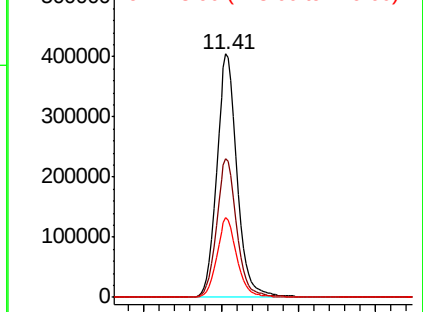
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 747953
Ion Ratio Lower Upper
117 100
82 57.2 40.0 60.0
119 32.7 25.8 38.6

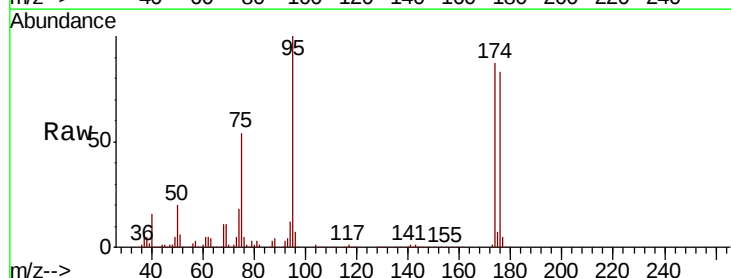


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

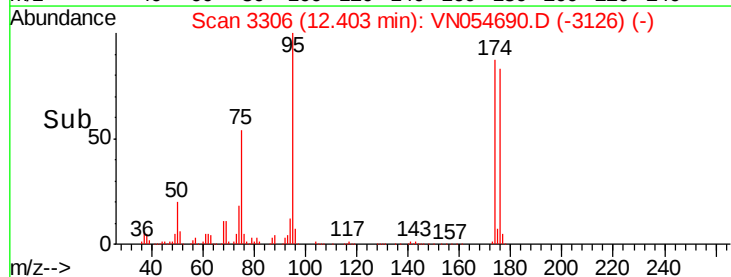
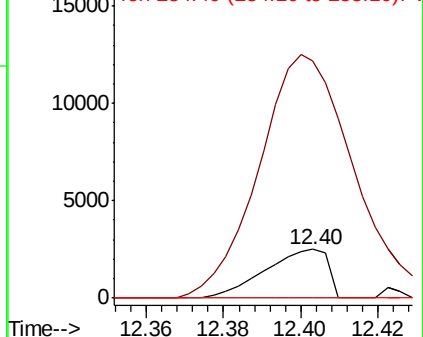


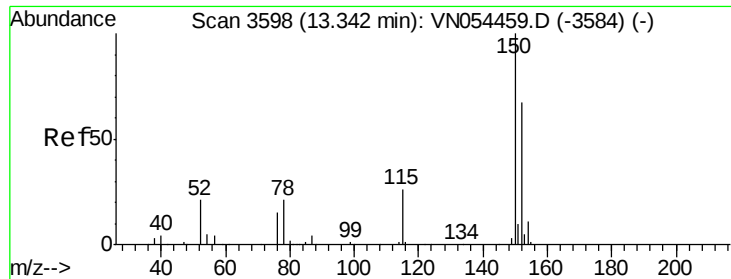
#71
Bromoform
Concen: 2.938 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Tgt Ion:173 Resp: 2825
Ion Ratio Lower Upper
173 100
175 644.7 24.4 73.2#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



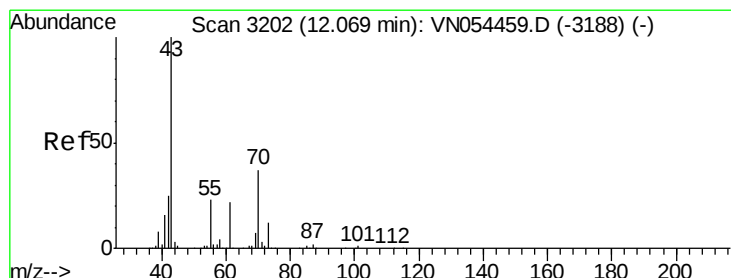
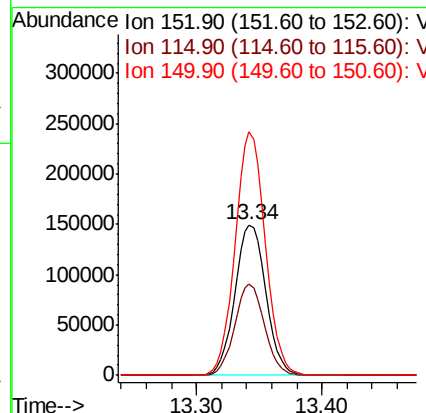
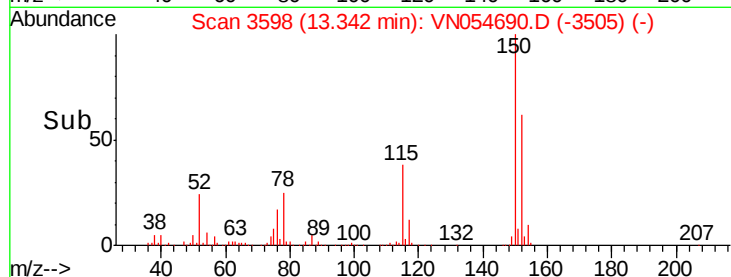
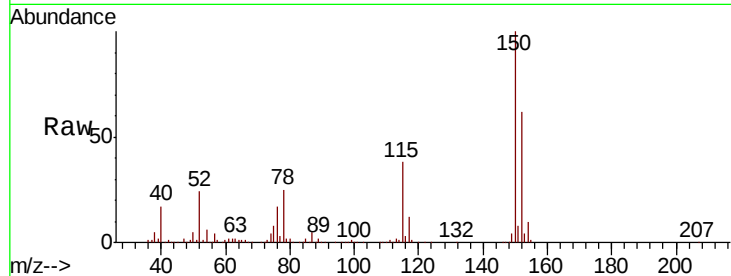


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Instrument :
MSVOA_N
ClientSampleId :

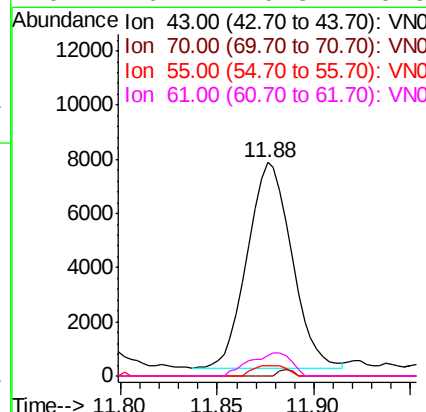
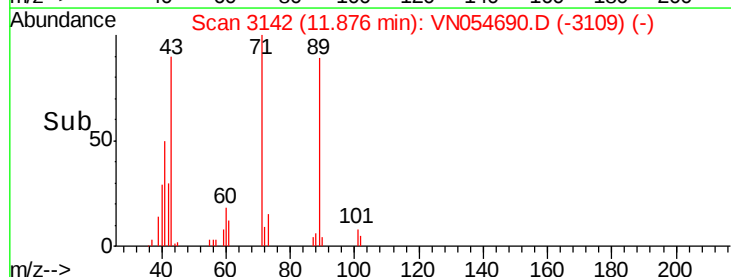
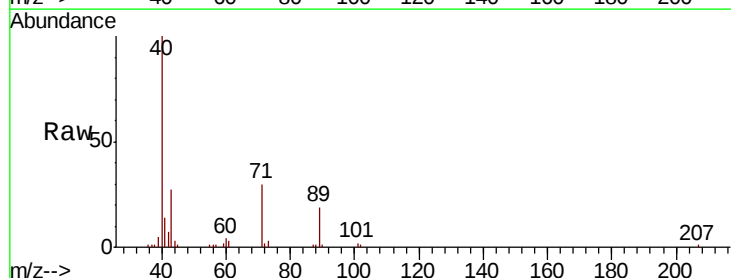
Tot Ion	Ratio	Lower	Upper
152	100		
115	58.4	27.2	81.6
150	157.4	0.0	349.2

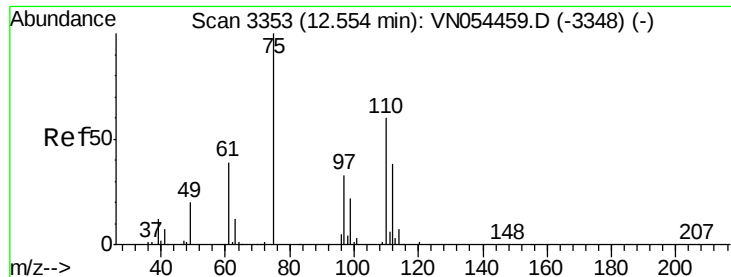


#74

N-ethyl acetate
Concen: 2.038 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054690.D
Acq: 26 Mar 2019 11:28

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.0	35.4	53.0#
55	3.8	19.8	29.6#
61	10.7	19.8	29.6#





#76

1,2,3-Trichloropropane

Concen: 41.133 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

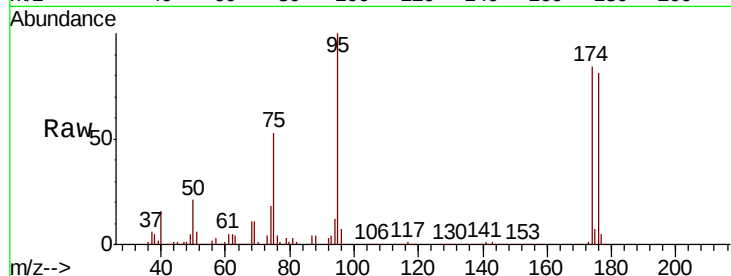
ClientSampled :

Tot Ion: 75 Resp: 166864

Ion Ratio Lower Upper

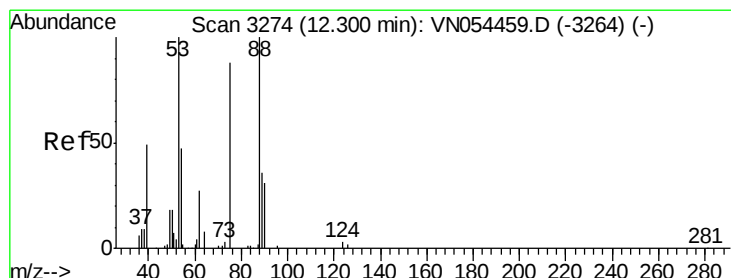
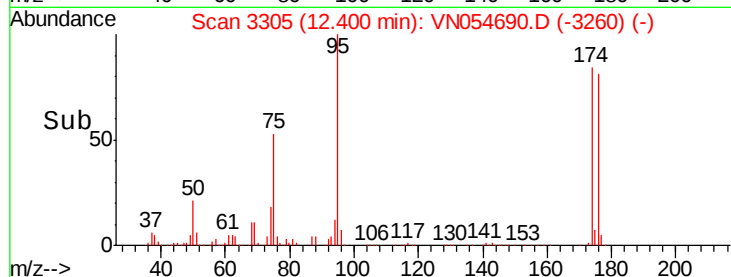
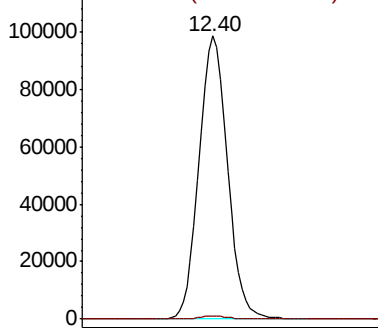
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 135.977 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

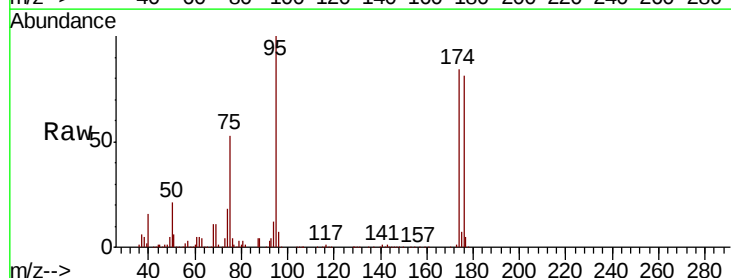
Tgt Ion: 75 Resp: 166864

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

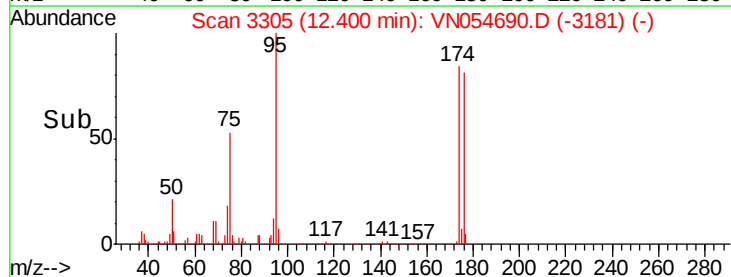
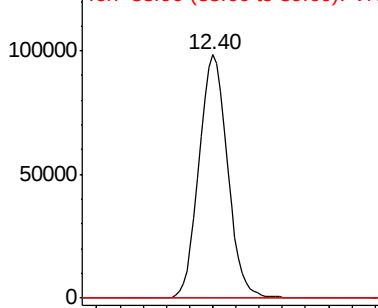
89 0.0 39.2 58.8#

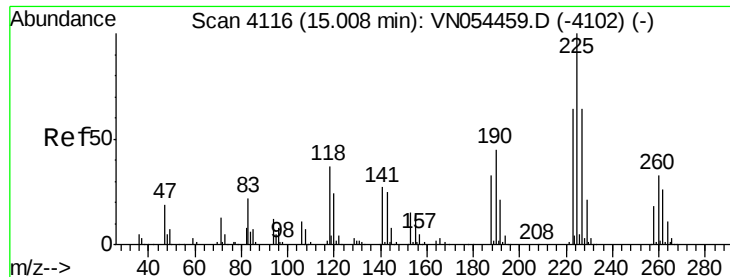


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054690.D

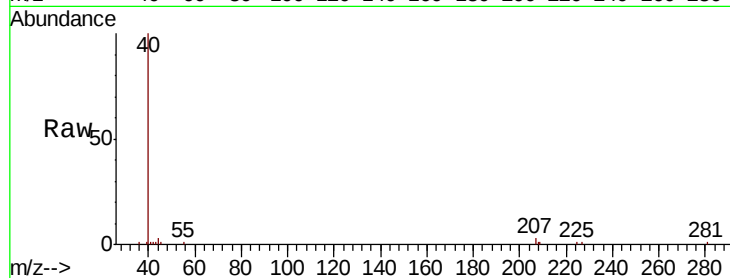
Acq: 26 Mar 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

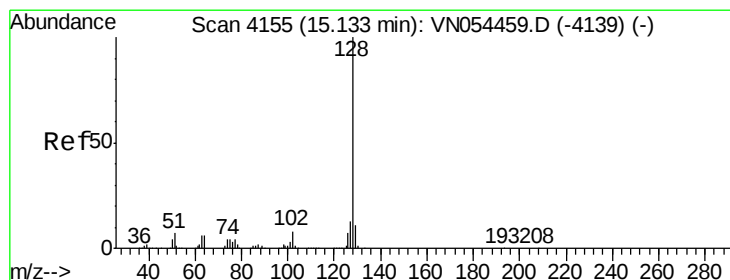
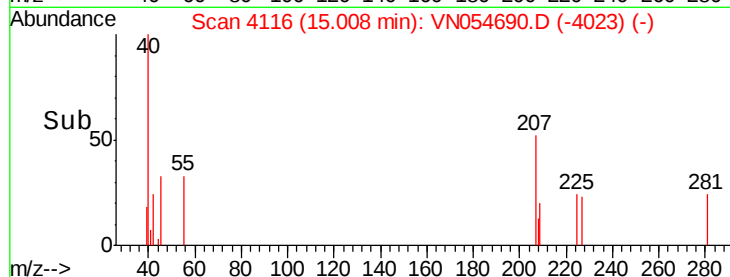
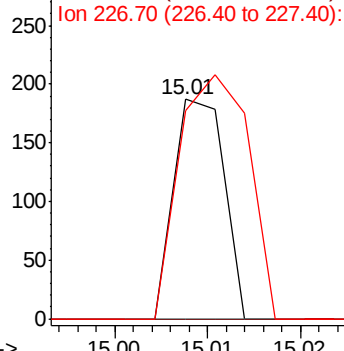
Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.1	93.5#
227	152.1	31.9	95.9#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.203 ug/l

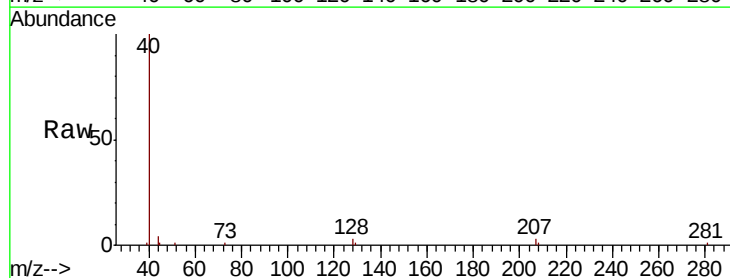
RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054690.D

Acq: 26 Mar 2019 11:28

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.1	15.1#
129	3.6	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

