

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056720.D
 Acq On : 15 Jul 2019 18:22
 Operator : JC/SP
 Sample : K3817-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW534-3338

Quant Time: Jul 16 04:24:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	270542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	473912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	487162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190998	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	157402	52.60	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.59	113	142511	48.32	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.09	98	594210	52.17	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	213688	55.63	ug/l	0.00
Spiked Amount						

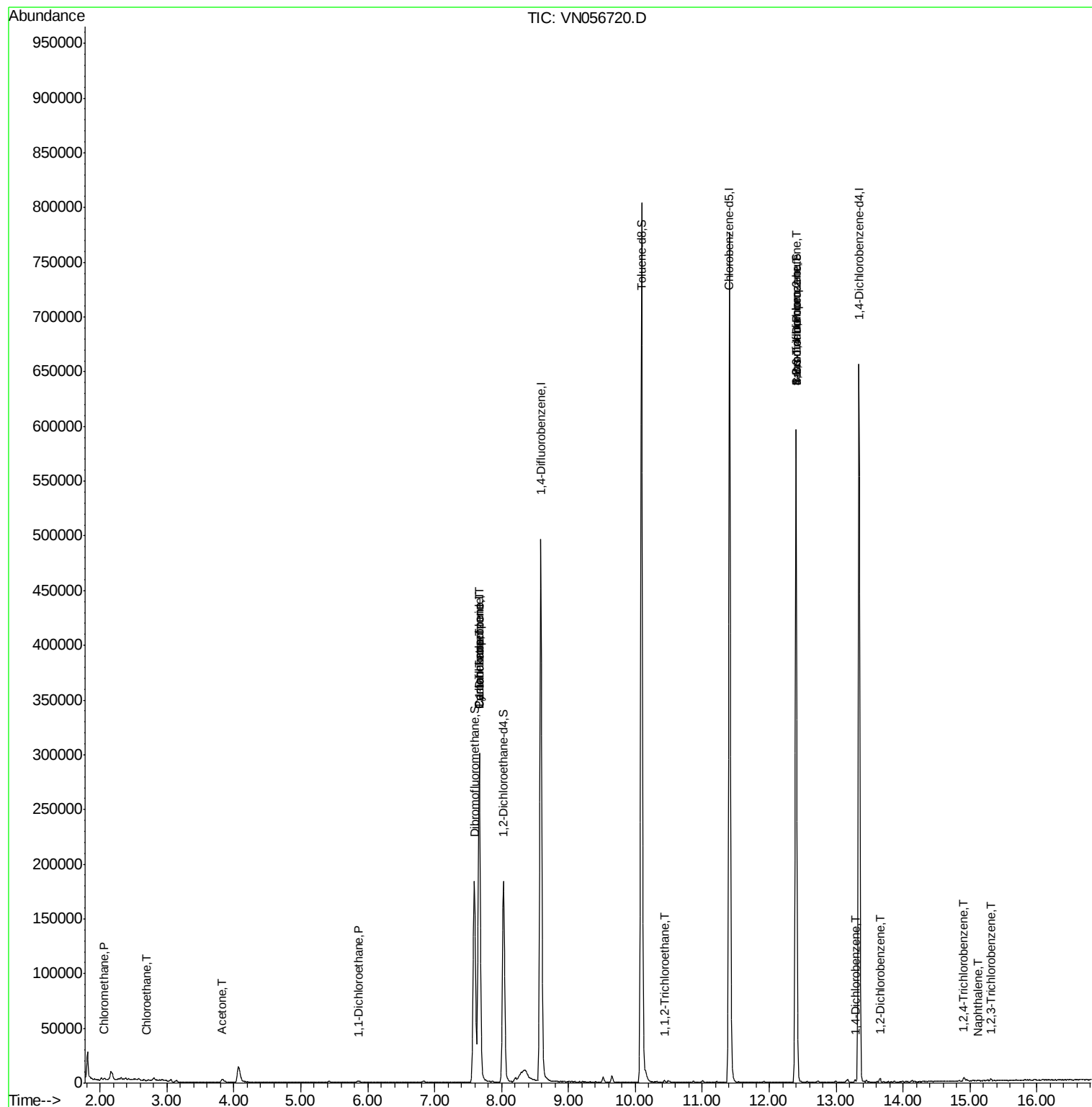
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1331	0.390	ug/l	91
6) Chloroethane	2.70	64	402	0.210	ug/l #	42
16) Acetone	3.83	43	6032	4.374	ug/l	94
18) Methyl Acetate	4.34	43	363	Below Cal	#	52
24) 1,1-Dichloroethane	5.85	63	2910	0.578	ug/l #	83
31) Cyclohexane	7.67	56	4358	0.911	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	17138	3.908	ug/l #	49
38) Carbon Tetrachloride	7.67	117	23374	5.683	ug/l #	16
55) 1,1,2-Trichloroethane	10.44	97	746	0.223	ug/l #	14
71) Bromoform	12.40	173	1517	0.544	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	100603	24.083	ug/l #	100
79) 2-Chlorotoluene	12.60	91	140	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	100603	74.375	ug/l #	13
83) tert-Butylbenzene	12.99	119	897	Below Cal	#	79
88) 1,4-Dichlorobenzene	13.28	146	1291	0.201	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	1823	0.270	ug/l #	82
93) 1,2,4-Trichlorobenzene	14.91	180	1439	4.049	ug/l #	77
95) Naphthalene	15.14	128	339	4.556	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	793	3.523	ug/l #	86

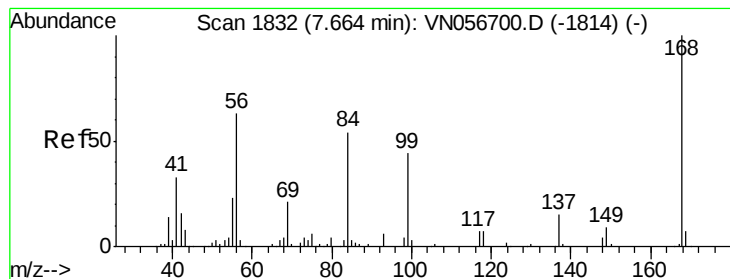
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 16 01:25:25 2019
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: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

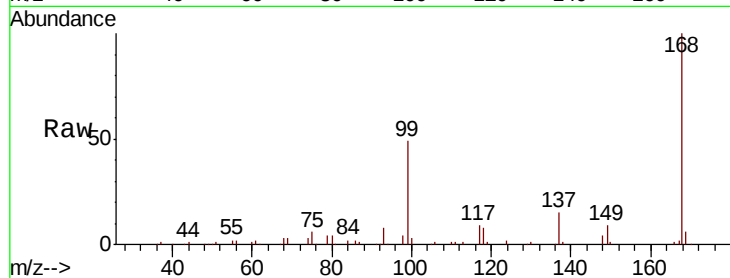
SA-TW534-3338

Tot Ion:168 Resp: 270542

Ion Ratio Lower Upper

168 100

99 49.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

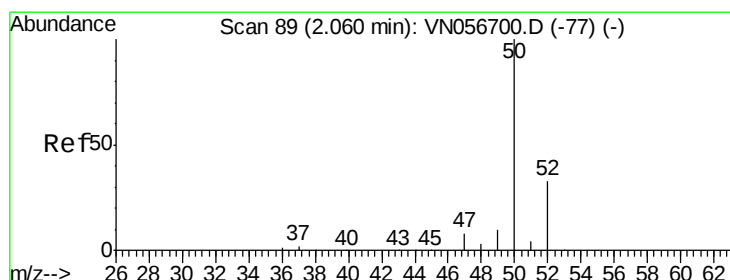
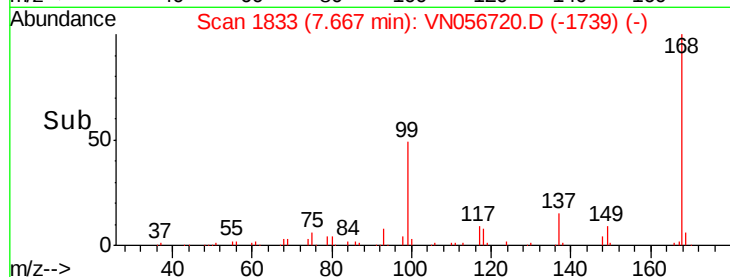
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.390 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056720.D

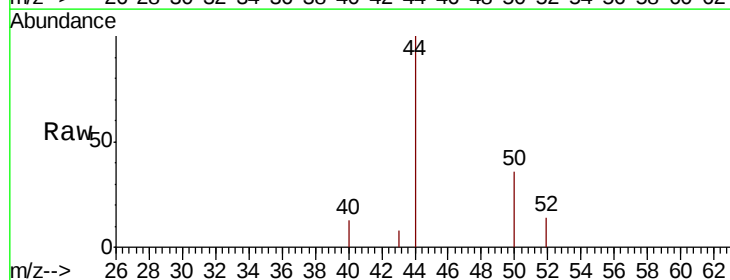
Acq: 15 Jul 2019 18:22

Tgt Ion: 50 Resp: 1331

Ion Ratio Lower Upper

50 100

52 37.9 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

1000

800

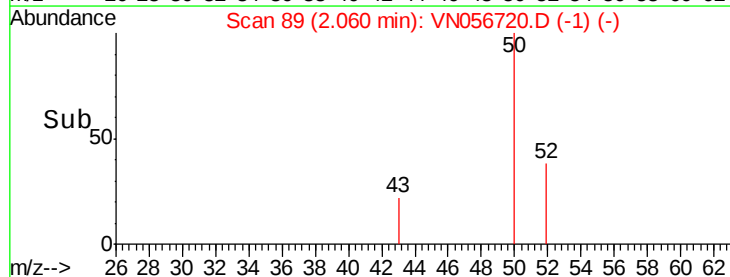
600

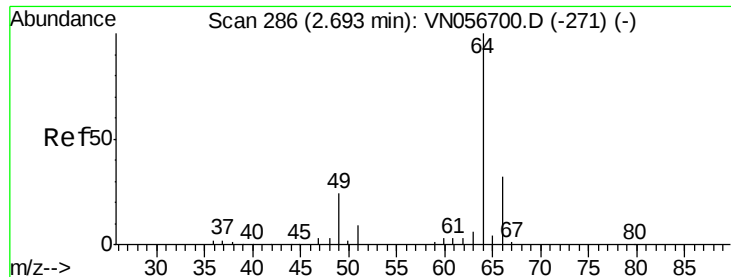
400

200

0

Time-->





#6

Chloroethane

Concen: 0.210 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.01 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

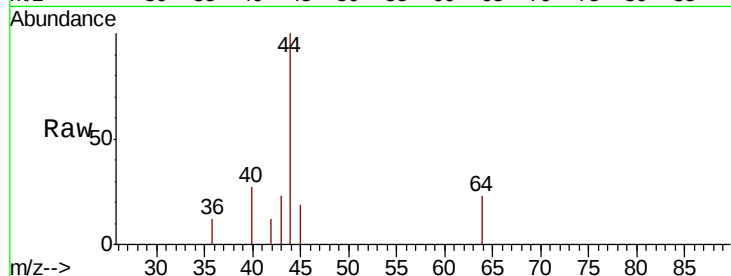
SA-TW534-3338

Tot Ion: 64 Resp: 402

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.8#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

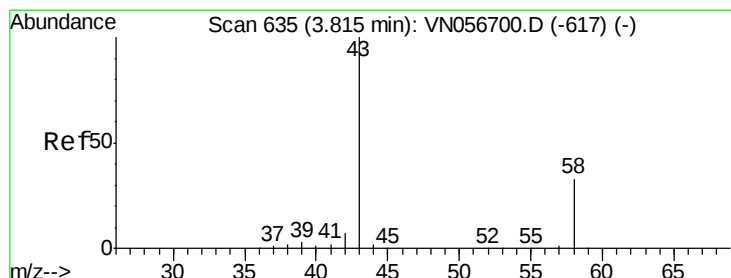
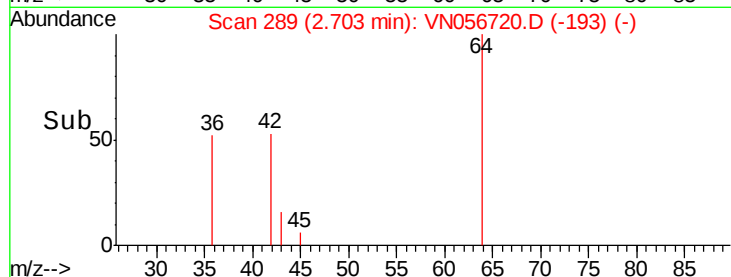
300

200

100

0

Time-->



#16

Acetone

Concen: 4.374 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056720.D

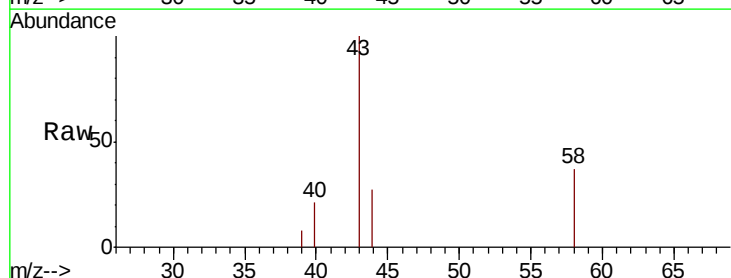
Acq: 15 Jul 2019 18:22

Tgt Ion: 43 Resp: 6032

Ion Ratio Lower Upper

43 100

58 36.5 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

2000

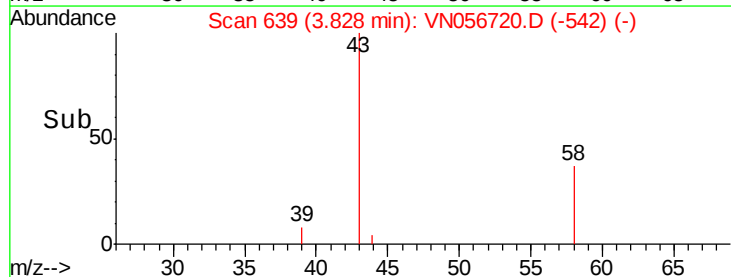
1500

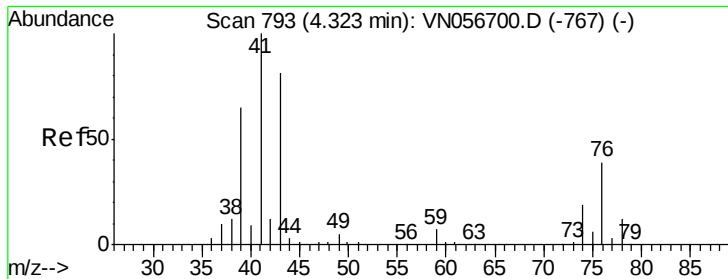
1000

500

0

Time-->

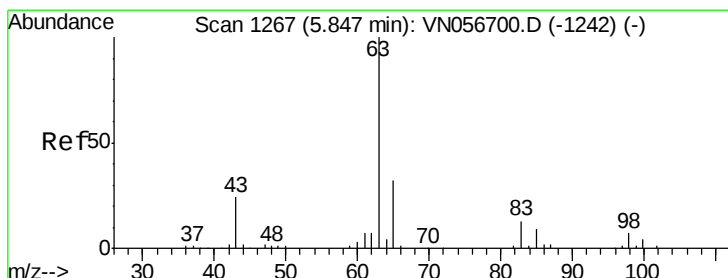
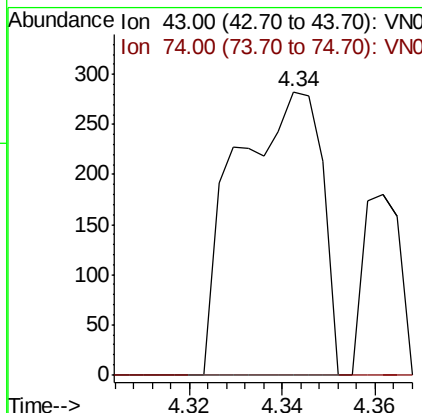
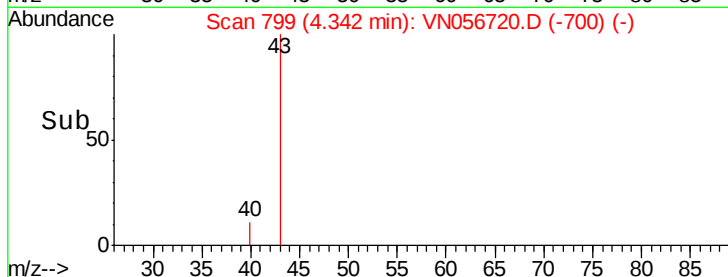
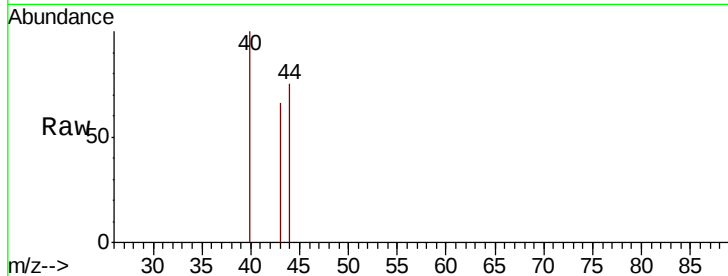




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN056720.D
Acq: 15 Jul 2019 18:22

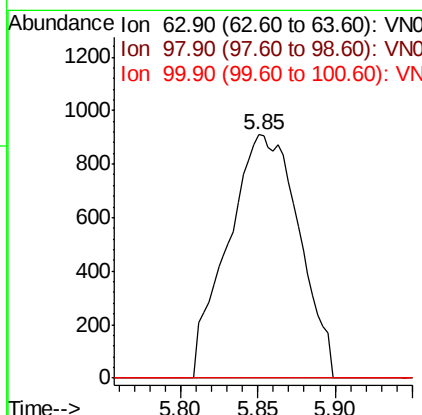
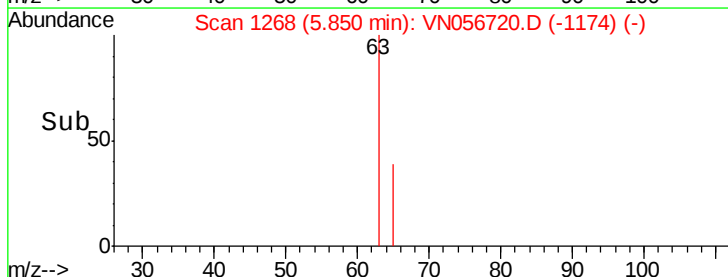
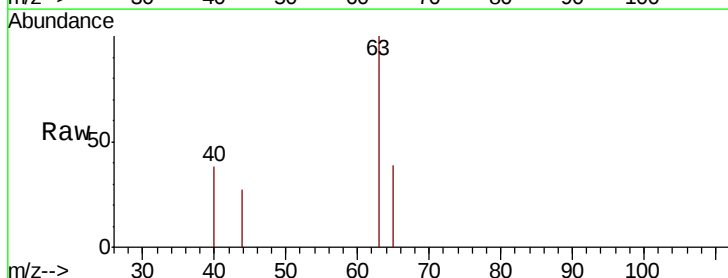
Instrument :
MSVOA_N
ClientSampleId :
SA-TW534-3338

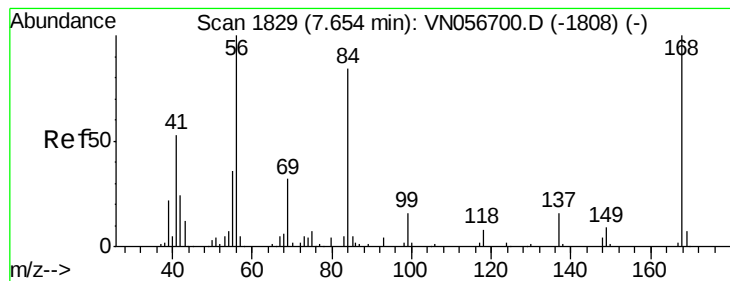
Tot Ion: 43 Resp: 363
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#24
1,1-Dichloroethane
Concen: 0.578 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN056720.D
Acq: 15 Jul 2019 18:22

Tgt Ion: 63 Resp: 2910
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.9#
100 0.0 2.0 5.8#





#31

Cyclohexane

Concen: 0.911 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

SA-TW534-3338

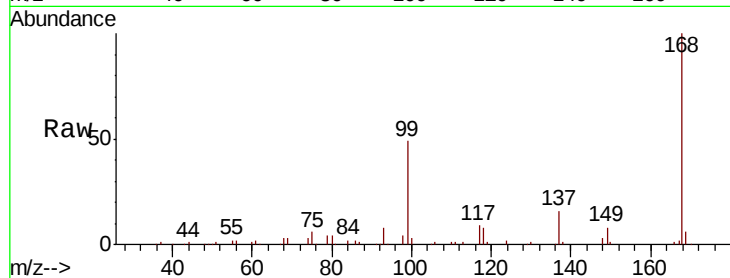
Tot Ion: 56 Resp: 4358

Ion Ratio Lower Upper

56 100

69 175.7 25.8 38.8#

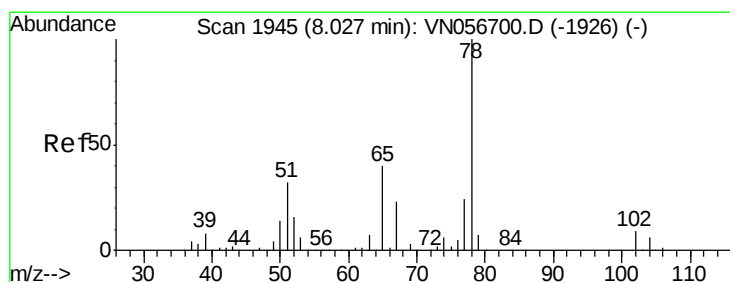
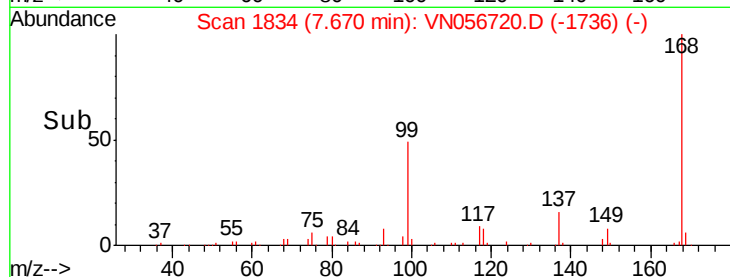
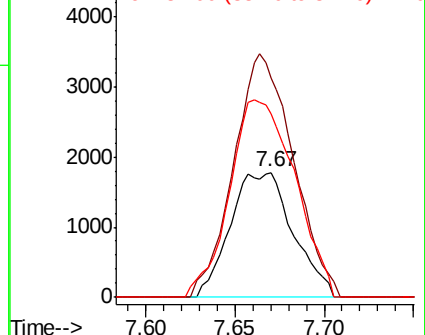
84 147.1 67.4 101.0#



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: 52.598 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056720.D

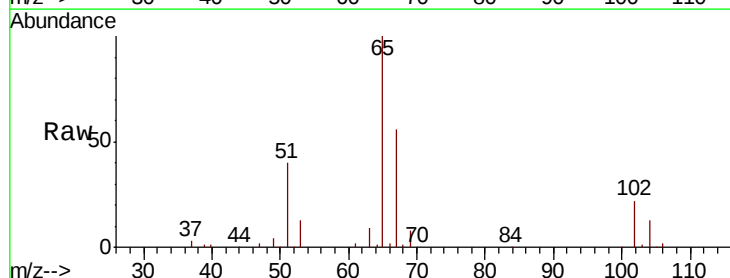
Acq: 15 Jul 2019 18:22

Tgt Ion: 65 Resp: 157402

Ion Ratio Lower Upper

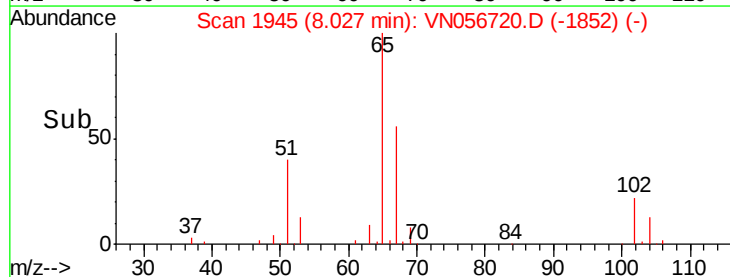
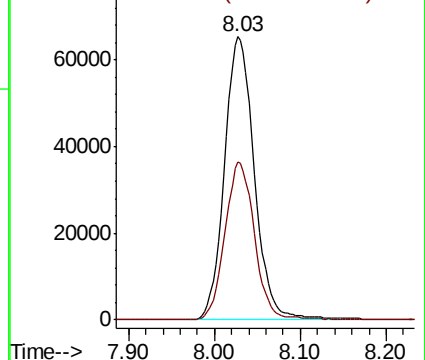
65 100

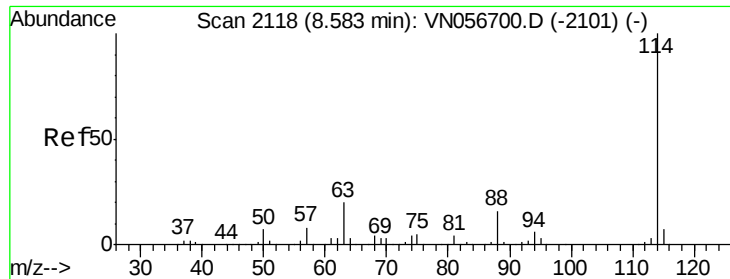
67 55.2 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

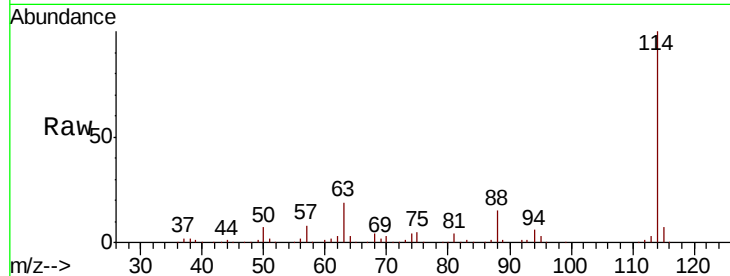




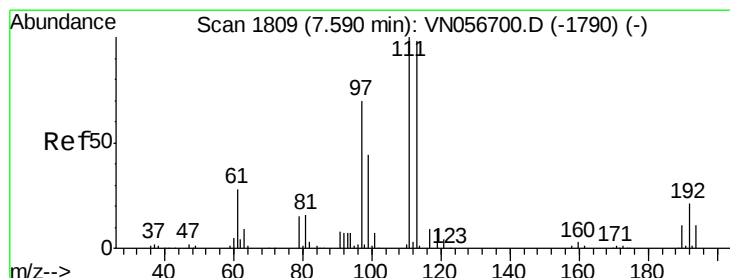
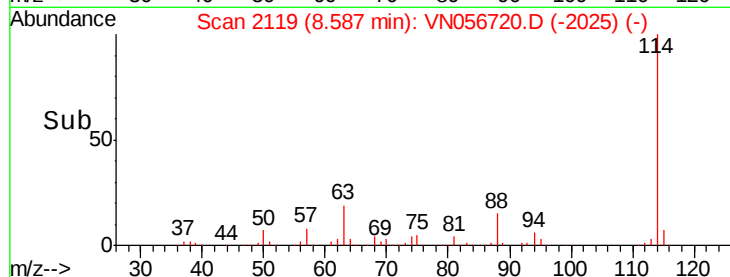
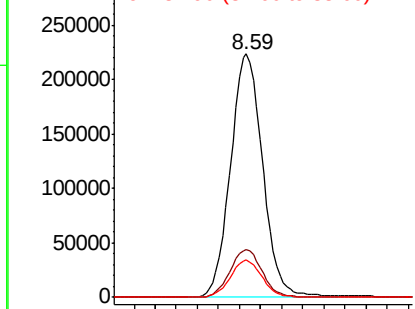
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW534-3338

Tot Ion:114 Resp: 473912
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.4
 88 15.3 0.0 31.2

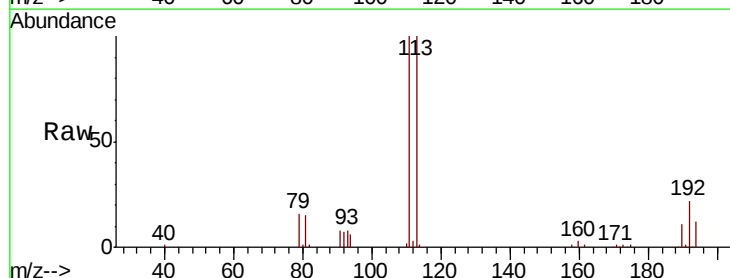


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

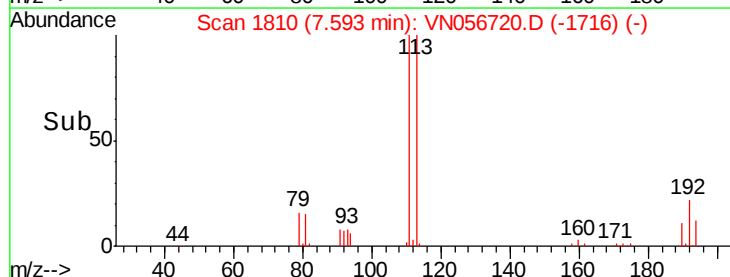
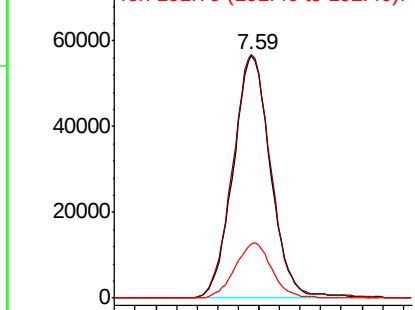


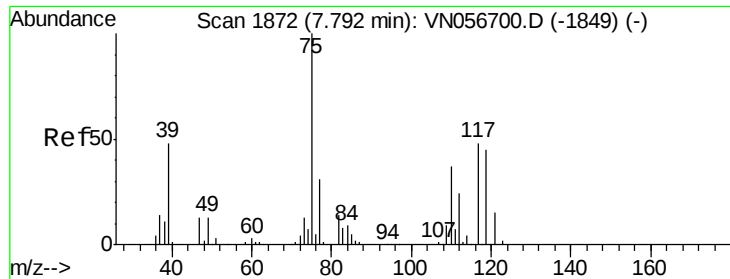
#35
 Dibromofluoromethane
 Concen: 48.321 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Tgt Ion:113 Resp: 142511
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.8 122.6
 192 22.3 17.5 26.3



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

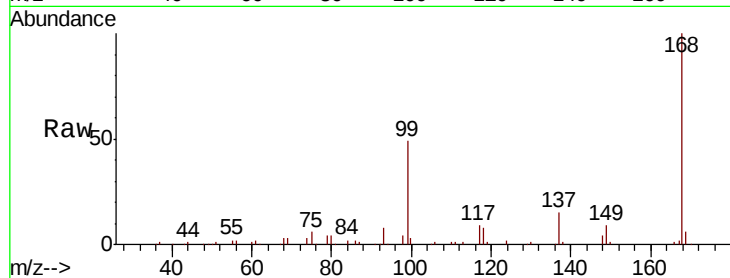




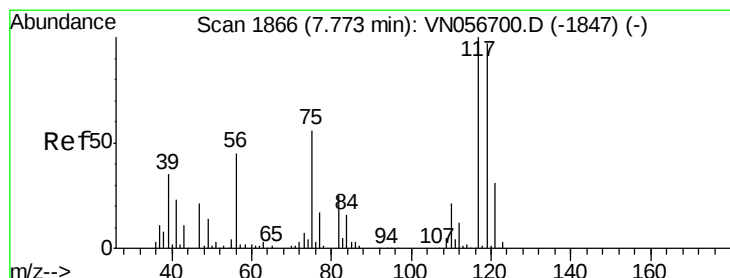
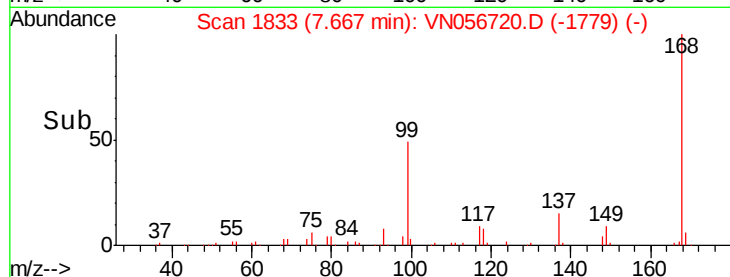
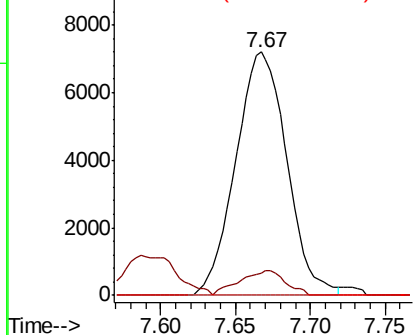
#36
 1,1-Dichloropropene
 Concen: 3.908 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW534-3338

Tot Ion	75	Resp	17138
Ion Ratio	Lower	Upper	
75	100		
110	9.1	18.4	55.4#
77	0.0	24.6	36.8#

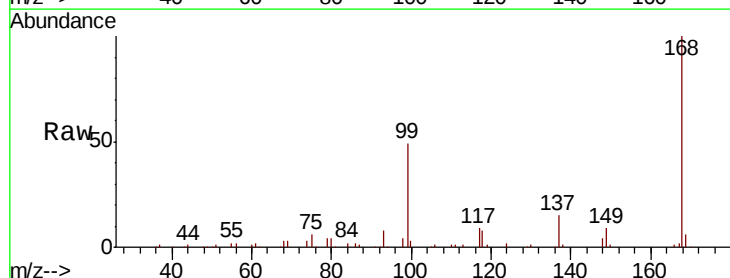


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

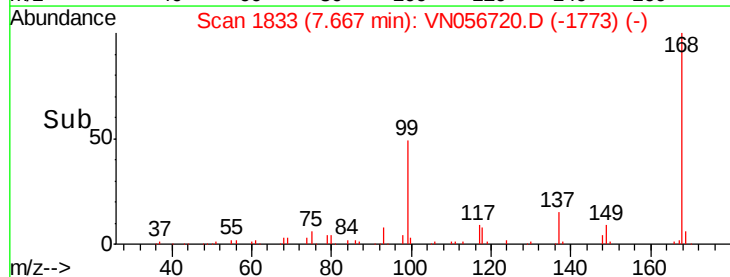
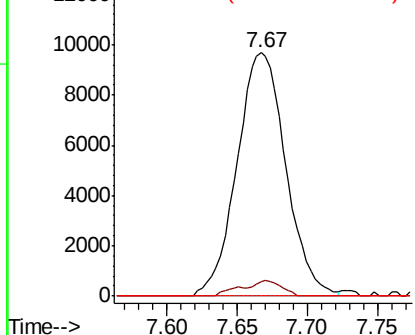


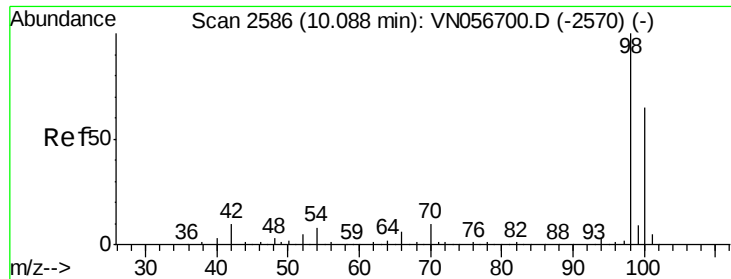
#38
 Carbon Tetrachloride
 Concen: 5.683 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Tgt Ion	117	Resp	23374
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.0	77.5	116.3#
121	0.0	24.7	37.1#



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





#50

Toluene-d8

Concen: 52.166 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

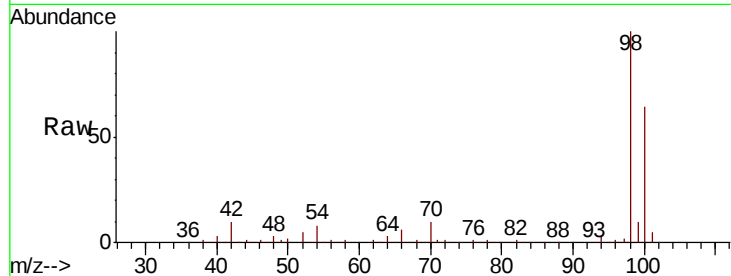
SA-TW534-3338

Tot Ion: 98 Resp: 594210

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056720.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056720.D (-2570) (-)

10.09

300000

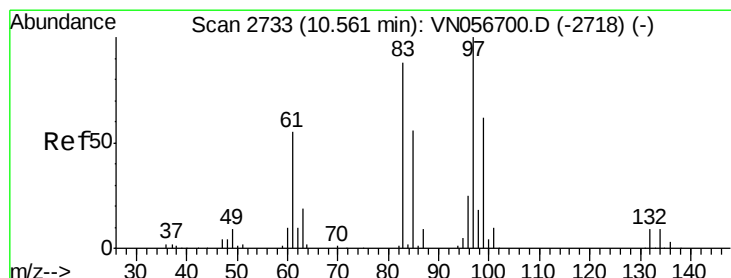
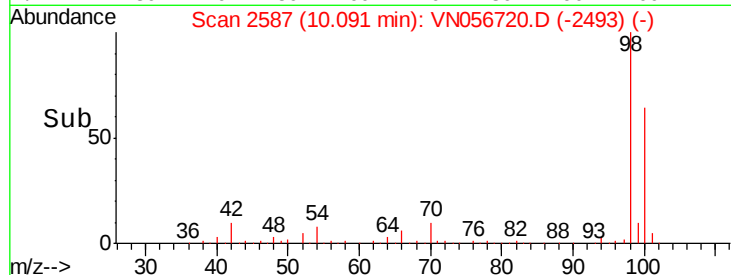
200000

100000

0

Time-->

10.00 10.10 10.20 10.30



#55

1,1,2-Trichloroethane

Concen: 0.223 ug/l

RT: 10.44 min Scan# 2694

Delta R.T. -0.13 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Tgt Ion: 97 Resp: 746

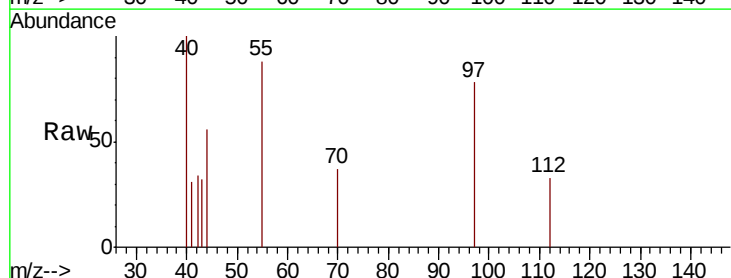
Ion Ratio Lower Upper

97 100

83 0.0 70.3 105.5#

85 0.0 44.8 67.2#

99 0.0 49.6 74.4#



Abundance Ion 96.90 (96.60 to 97.60): VN056720.D (-2640) (-)

Ion 82.90 (82.60 to 83.60): VN056720.D (-2640) (-)

Ion 84.90 (84.60 to 85.60): VN056720.D (-2640) (-)

Ion 98.90 (98.60 to 99.60): VN056720.D (-2640) (-)

10.44

600

500

400

300

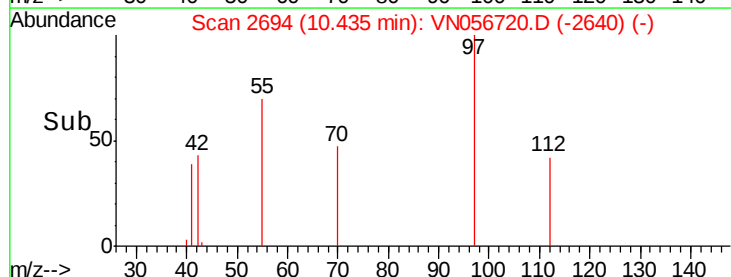
200

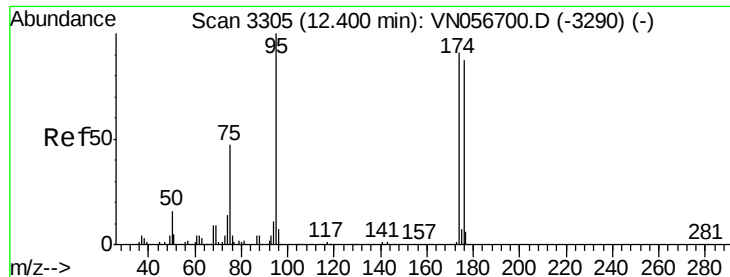
100

0

Time-->

10.40 10.45

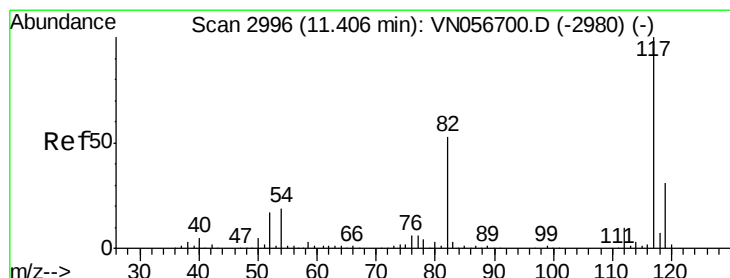
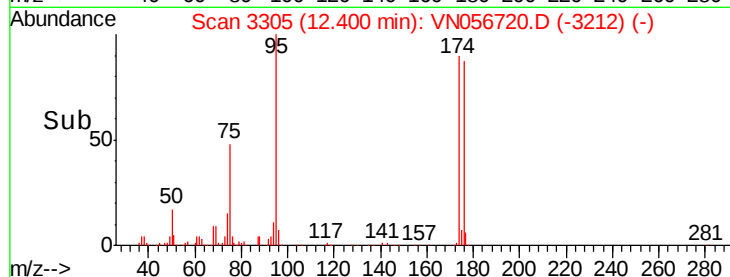
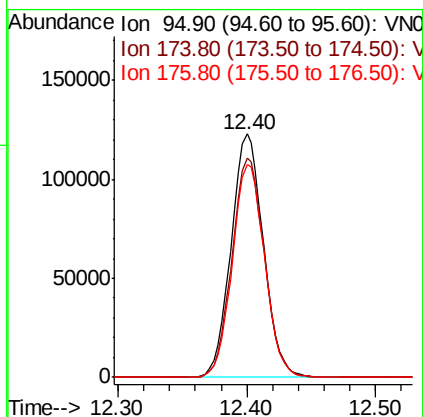
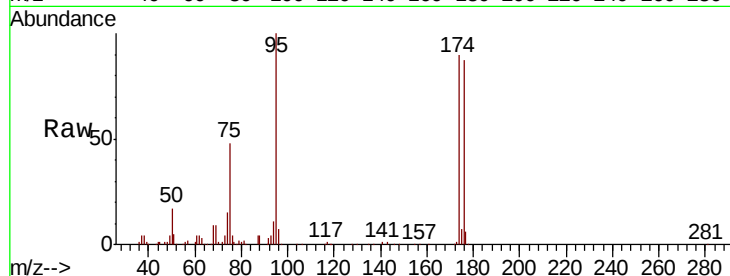




#62
4-Bromofluorobenzene
Concen: 55.629 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056720.D
Acq: 15 Jul 2019 18:22

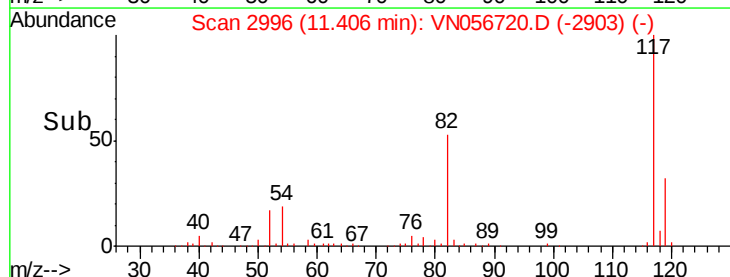
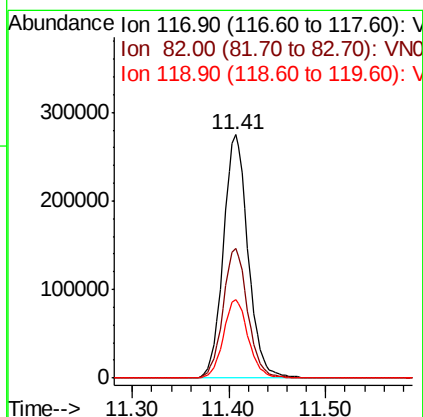
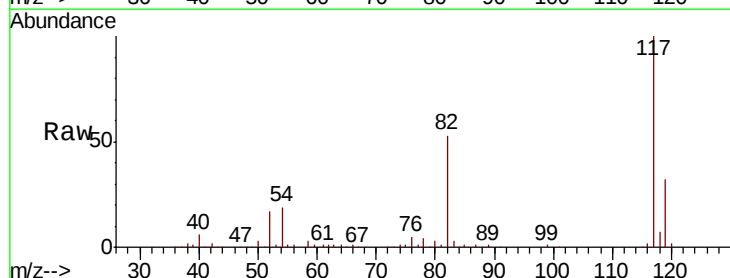
Instrument :
MSVOA_N
ClientSampleId :
SA-TW534-3338

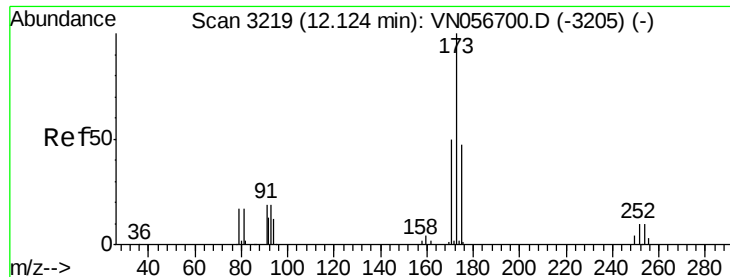
Tot Ion: 95 Resp: 213688
Ion Ratio Lower Upper
95 100
174 90.7 0.0 180.0
176 87.7 0.0 173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056720.D
Acq: 15 Jul 2019 18:22

Tgt Ion: 117 Resp: 487162
Ion Ratio Lower Upper
117 100
82 53.0 42.2 63.2
119 32.2 25.2 37.8





#71

Bromoform

Concen: 0.544 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

SA-TW534-3338

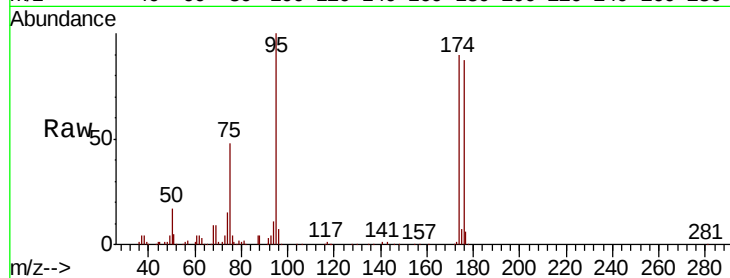
Tot Ion:173 Resp: 1517

Ion Ratio Lower Upper

173 100

175 768.5 23.8 71.4#

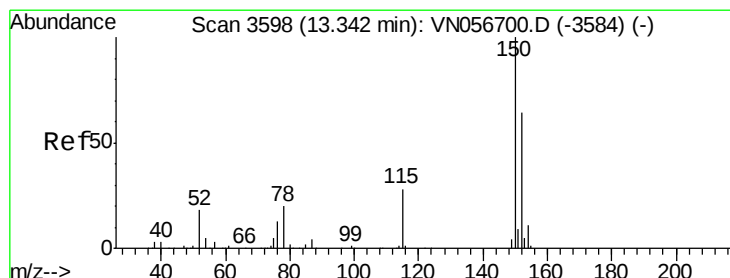
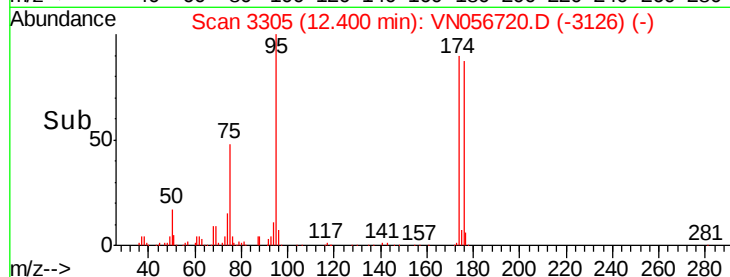
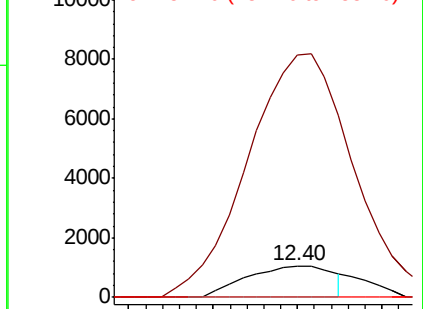
254 0.0 0.0 0.0



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: VN056720.D

Acq: 15 Jul 2019 18:22

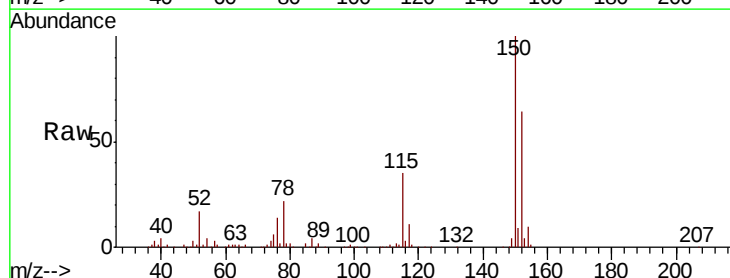
Tgt Ion:152 Resp: 190998

Ion Ratio Lower Upper

152 100

115 55.9 28.2 84.7

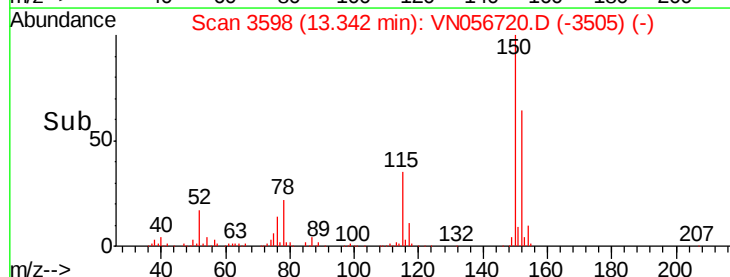
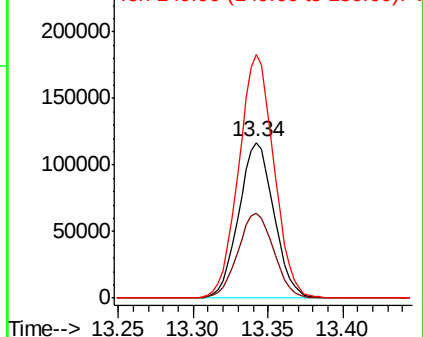
150 156.9 0.0 345.8

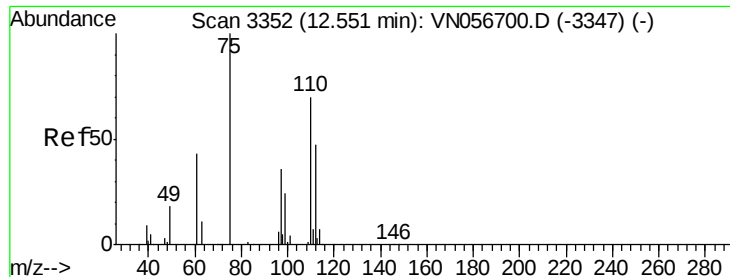


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.083 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

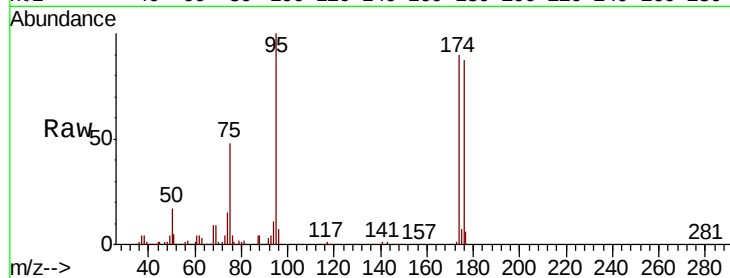
SA-TW534-3338

Tot Ion: 75 Resp: 100603

Ion Ratio Lower Upper

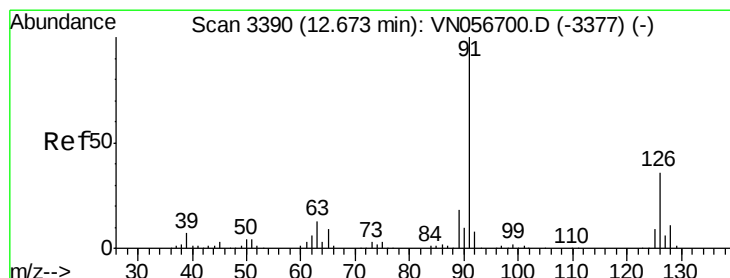
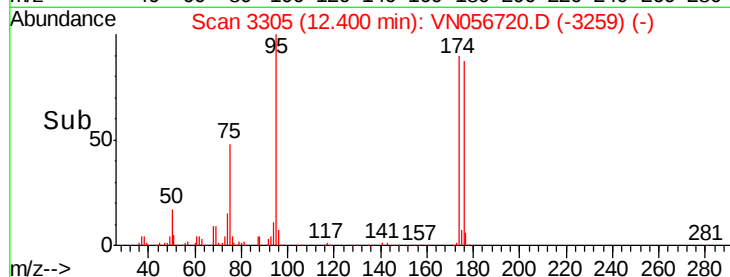
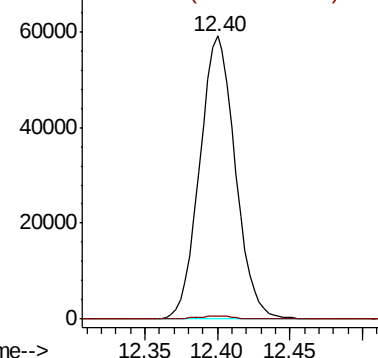
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN056720.D

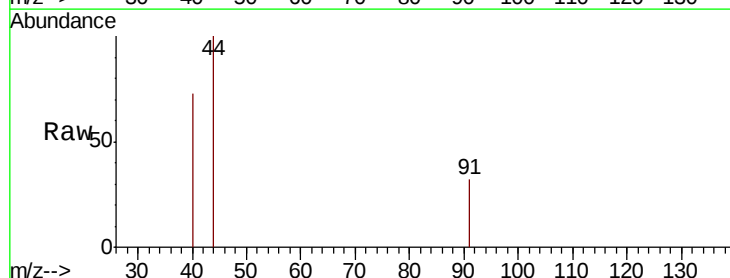
Acq: 15 Jul 2019 18:22

Tgt Ion: 91 Resp: 140

Ion Ratio Lower Upper

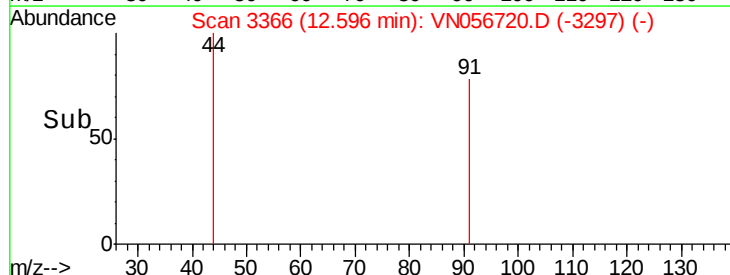
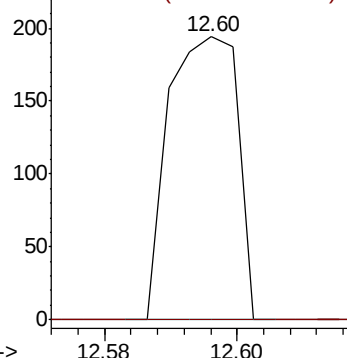
91 100

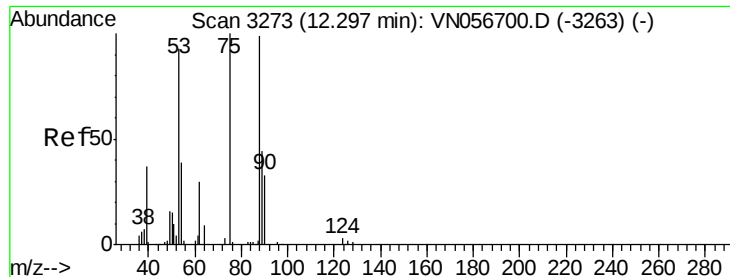
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.375 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

SA-TW534-3338

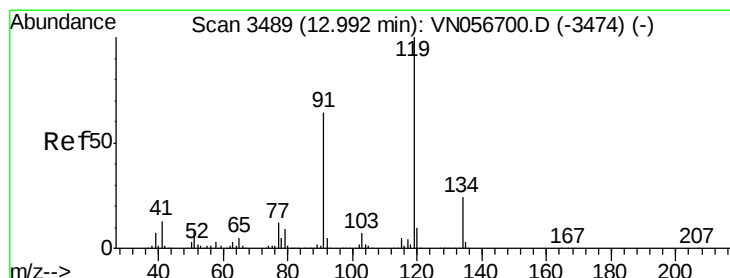
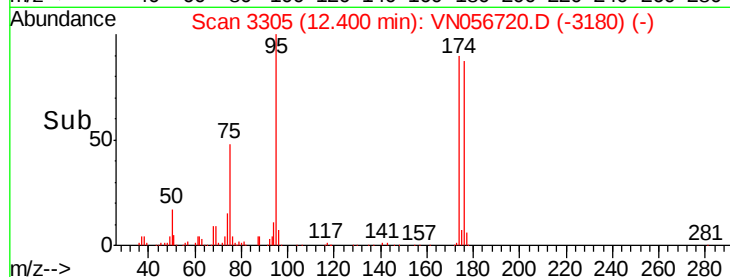
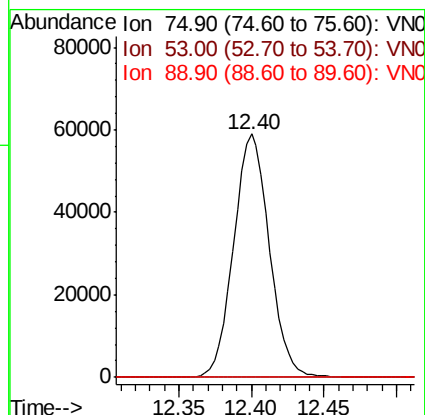
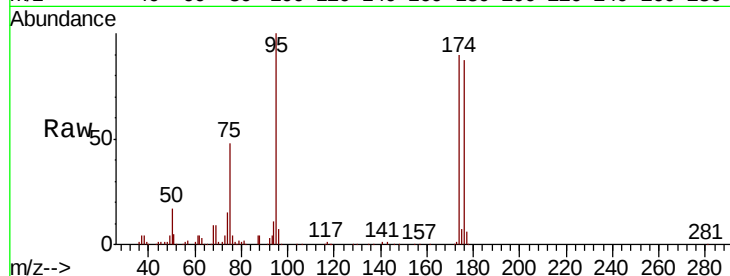
Tot Ion: 75 Resp: 100603

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056720.D

Acq: 15 Jul 2019 18:22

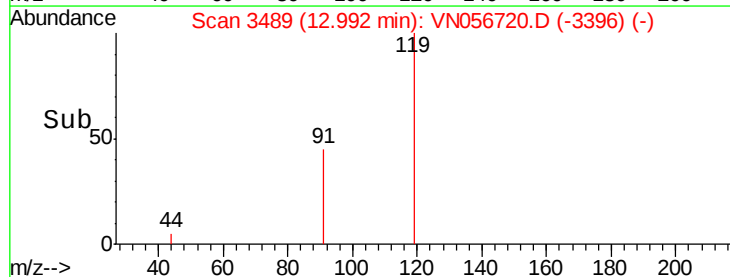
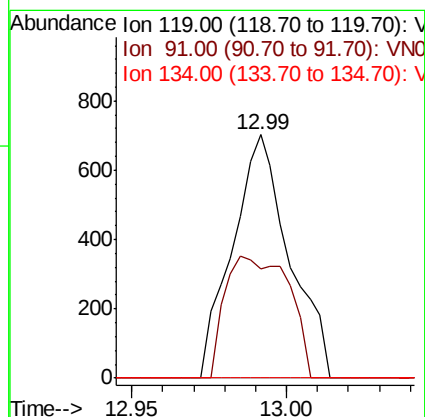
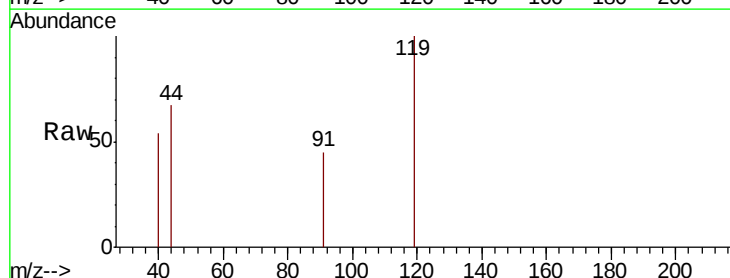
Tgt Ion: 119 Resp: 897

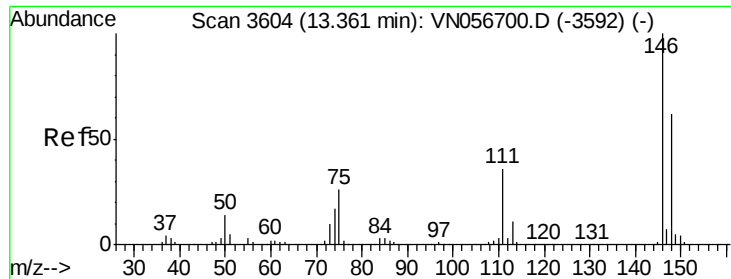
Ion Ratio Lower Upper

119 100

91 56.2 31.8 95.4

134 0.0 13.0 38.9#

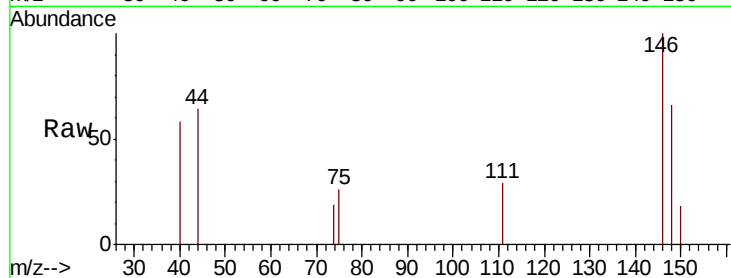




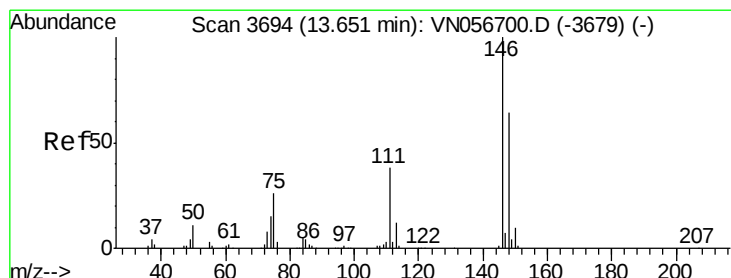
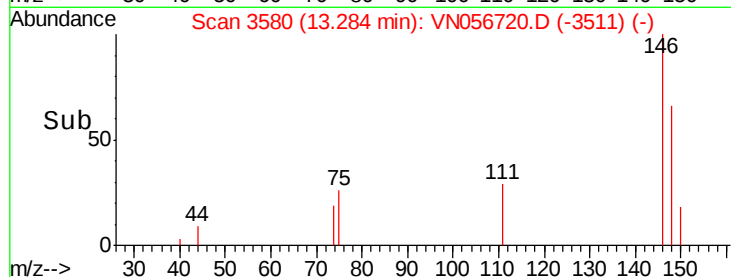
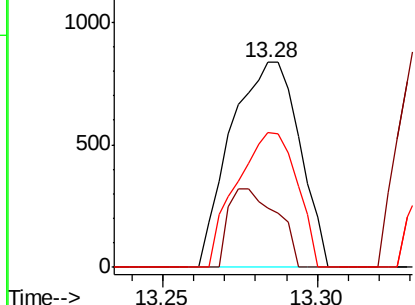
#88
 1,4-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW534-3338

Tot Ion:146 Resp: 1291
 Ion Ratio Lower Upper
 146 100
 111 26.9 18.6 55.8
 148 58.1 31.9 95.7

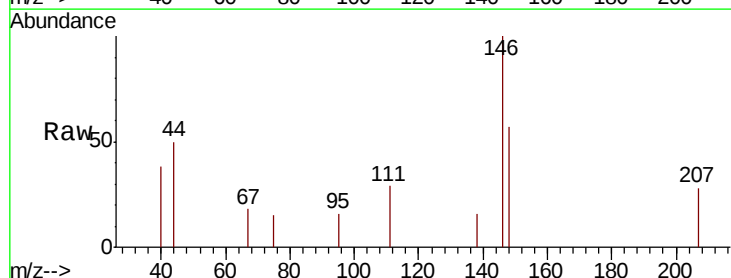


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

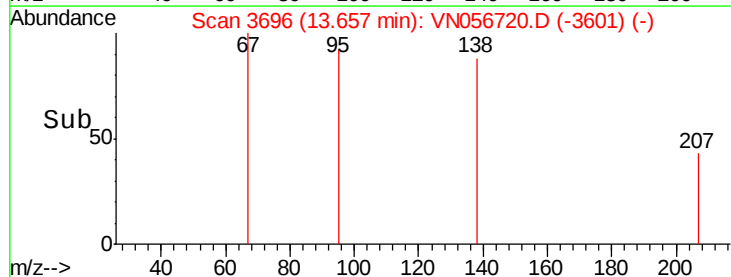
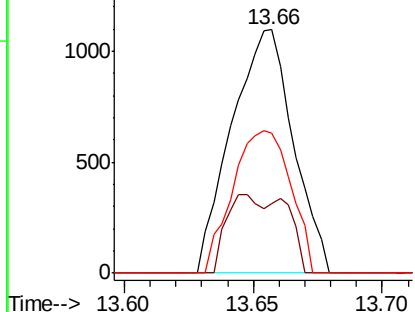


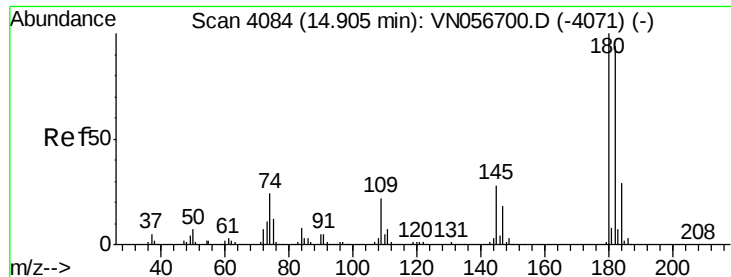
#91
 1,2-Dichlorobenzene
 Concen: 0.270 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.01 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Tgt Ion:146 Resp: 1823
 Ion Ratio Lower Upper
 146 100
 111 19.0 19.1 57.1#
 148 55.2 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

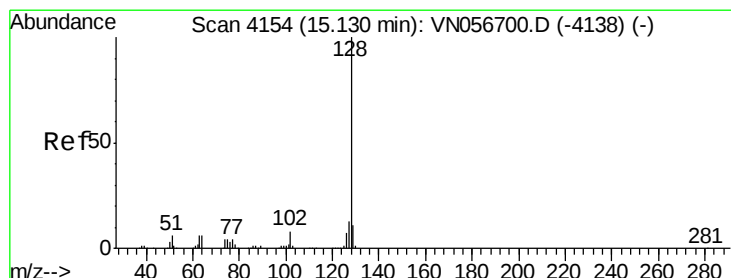
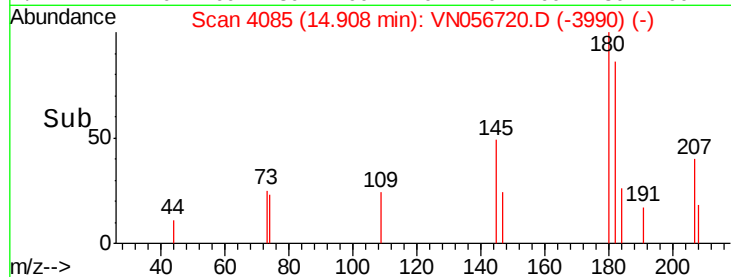
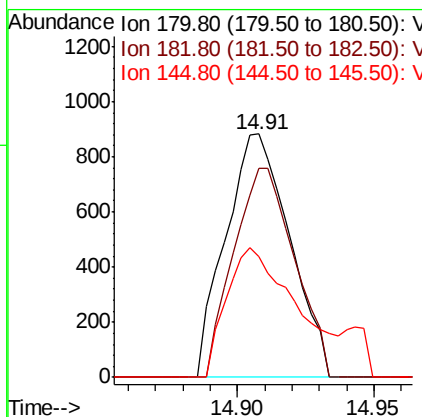
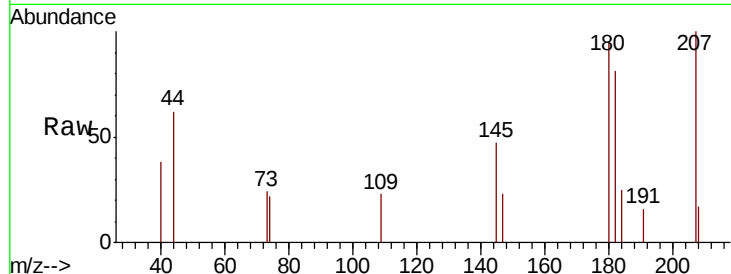




#93
 1,2,4-Trichlorobenzene
 Concen: 4.049 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

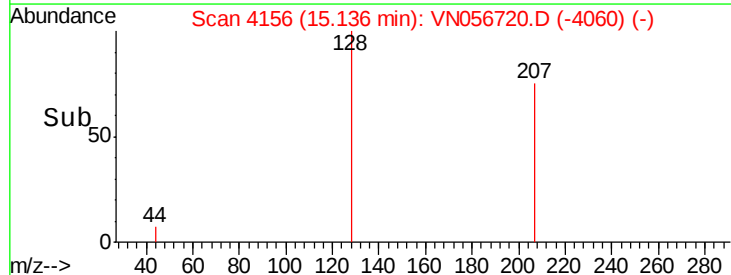
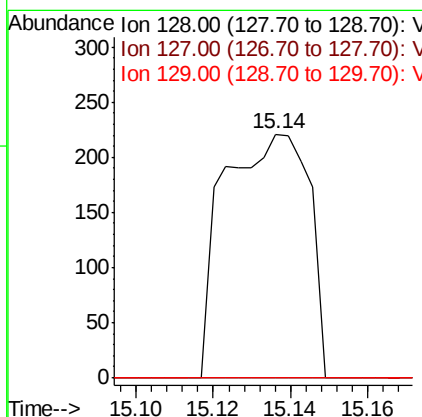
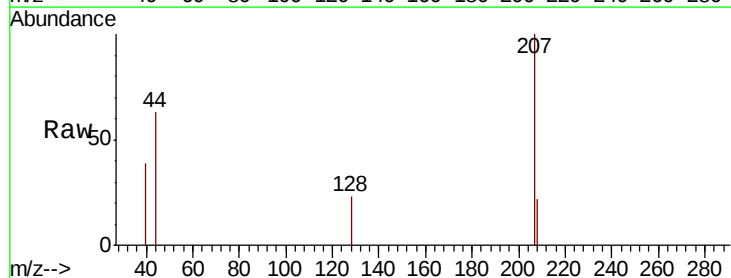
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW534-3338

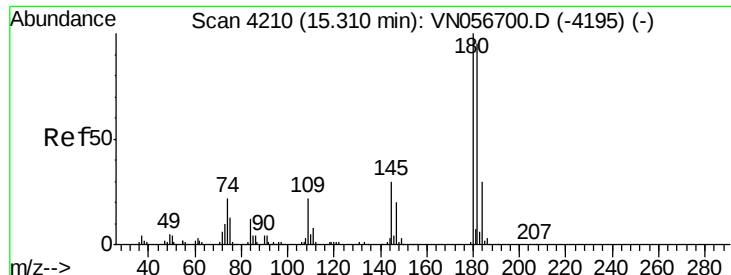
Tot Ion:180 Resp: 1439
 Ion Ratio Lower Upper
 180 100
 182 81.7 47.2 141.6
 145 58.6 14.2 42.8#



#95
 Naphthalene
 Concen: 4.556 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Tgt Ion:128 Resp: 339
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.7 13.1#

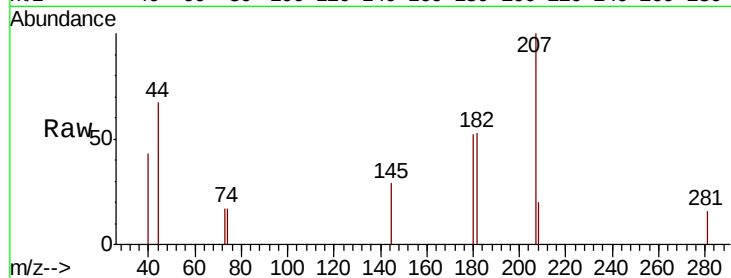




#96
 1,2,3-Trichlorobenzene
 Concen: 3.523 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN056720.D
 Acq: 15 Jul 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW534-3338

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.3	47.1	141.3
145	53.1	15.0	45.1



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

