

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058124.D
 Acq On : 16 Sep 2019 17:13
 Operator : JC/SP
 Sample : K4878-18
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-6

Quant Time: Sep 17 03:53:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	337954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	562879	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	520583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275262	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	357261	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	
35) Dibromofluoromethane	7.58	113	244321	47.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.06%	
50) Toluene-d8	10.08	98	930666	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	
62) 4-Bromofluorobenzene	12.41	95	314826	40.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.92%	

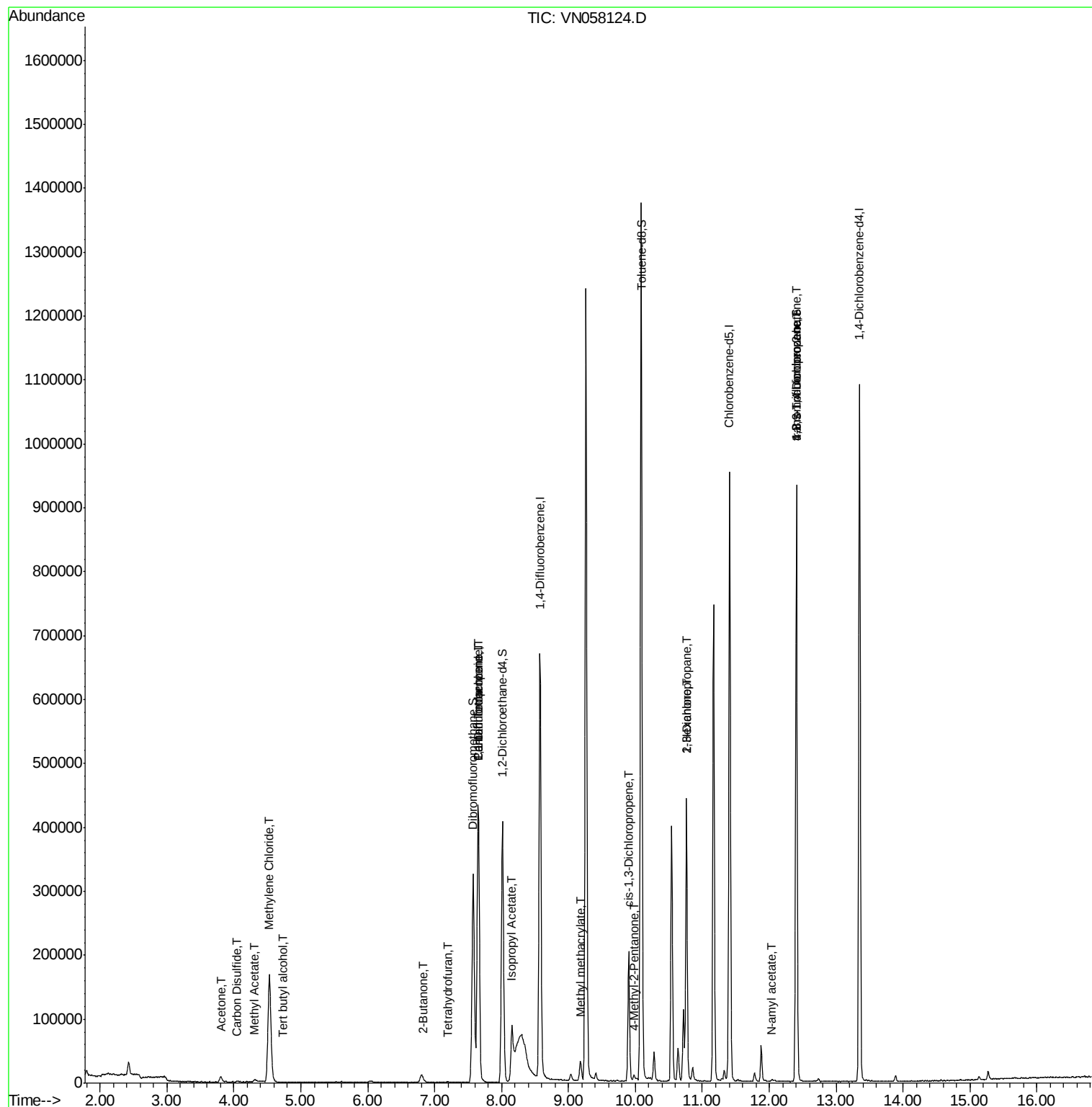
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	150	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	331	0.400	ug/l #	72
16) Acetone	3.81	43	14242	6.347	ug/l	98
17) Carbon Disulfide	4.03	76	798	0.301	ug/l #	75
18) Methyl Acetate	4.31	43	5043	0.843	ug/l #	91
20) Methylene Chloride	4.53	84	121363	27.865	ug/l	98
25) 2-Butanone	6.83	43	2485	0.765	ug/l #	49
29) Tetrahydrofuran	7.20	42	525	0.262	ug/l #	70
31) Cyclohexane	7.65	56	8715	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	28322	4.339	ug/l #	46
38) Carbon Tetrachloride	7.65	117	32835	5.509	ug/l #	16
43) Isopropyl Acetate	8.16	43	121067	10.674	ug/l #	82
48) Methyl methacrylate	9.17	41	5661	0.984	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6432	0.958	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	34625	4.316	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	4175	0.462	ug/l #	43
59) 2-Hexanone	10.76	43	69678	13.850	ug/l #	53
74) N-amyl acetate	12.04	43	1948	0.210	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	169483	27.218	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	169483	95.780	ug/l #	6
95) Naphthalene	15.14	128	4797	Below Cal	#	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

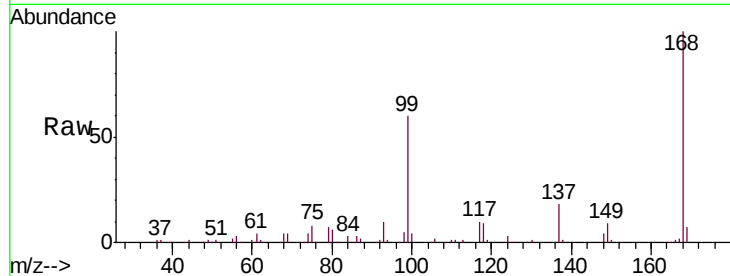
CSA-2-6

Tgt Ion:168 Resp: 337954

Ion Ratio Lower Upper

168 100

99 59.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

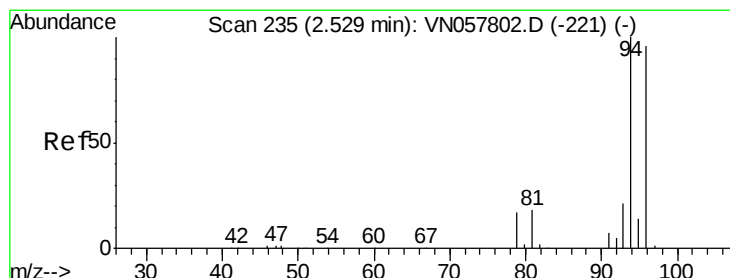
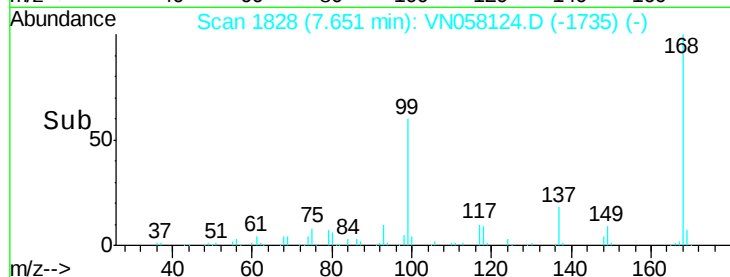
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.04 min

Lab File: VN058124.D

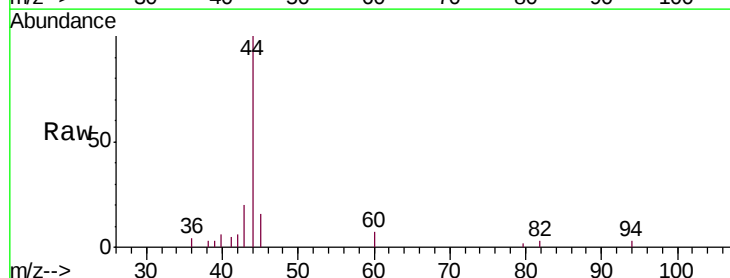
Acq: 16 Sep 2019 17:13

Tgt Ion: 94 Resp: 150

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

150

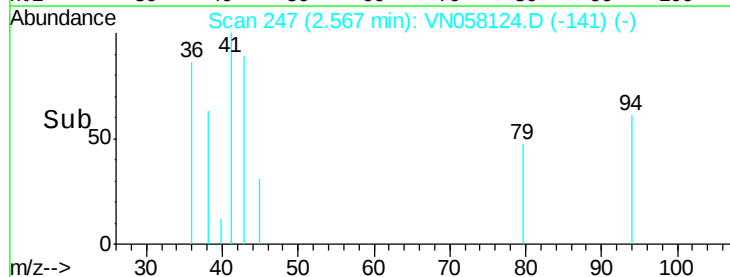
100

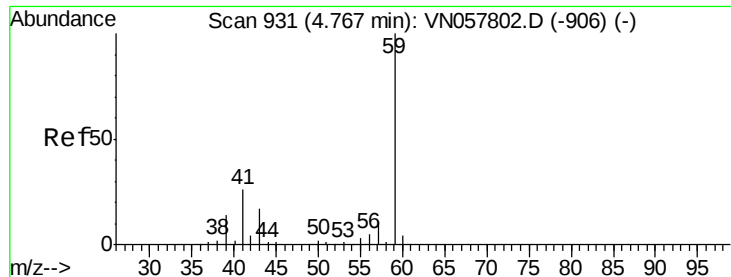
50

0

2.55 2.56 2.57 2.58

Time-->

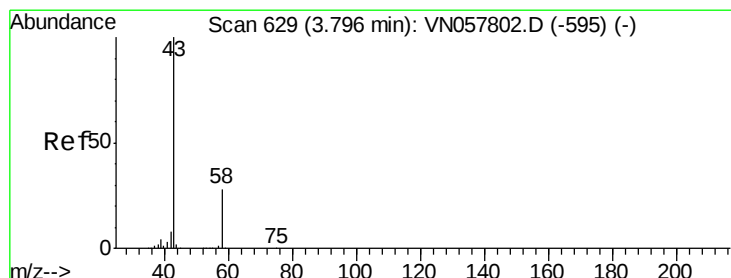
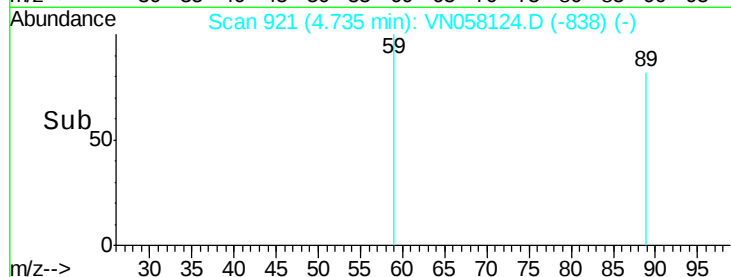
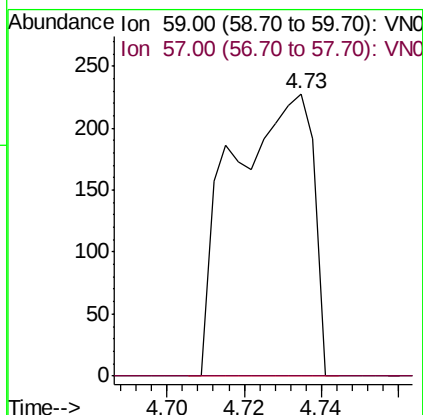
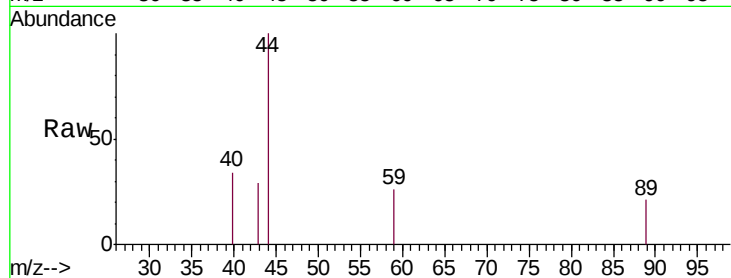




#11
Tert butyl alcohol
Concen: 0.400 ug/l
RT: 4.73 min Scan# 921
Delta R.T. -0.03 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

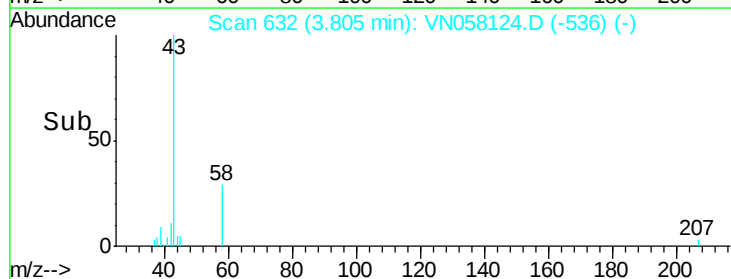
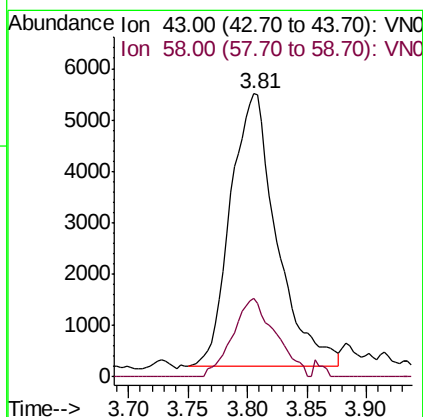
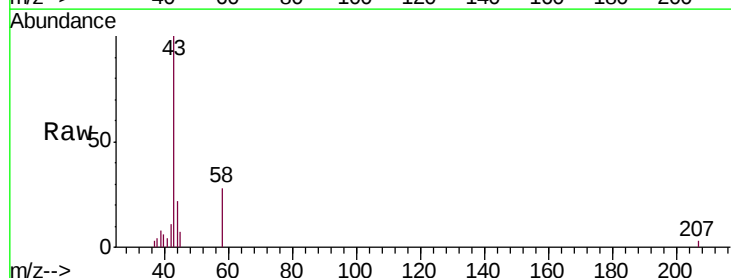
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-6

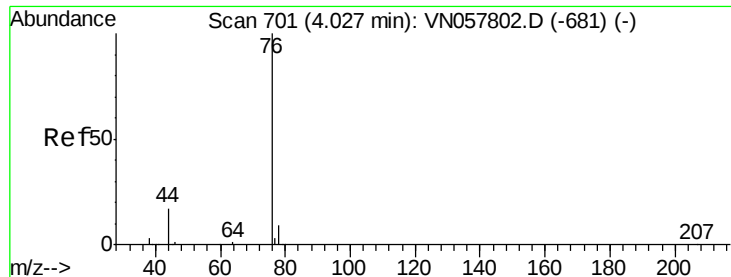
Tgt Ion: 59 Resp: 331
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 6.347 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

Tgt Ion: 43 Resp: 14242
Ion Ratio Lower Upper
43 100
58 29.0 22.2 33.2

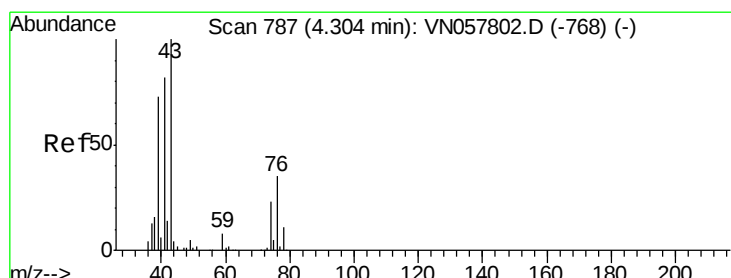
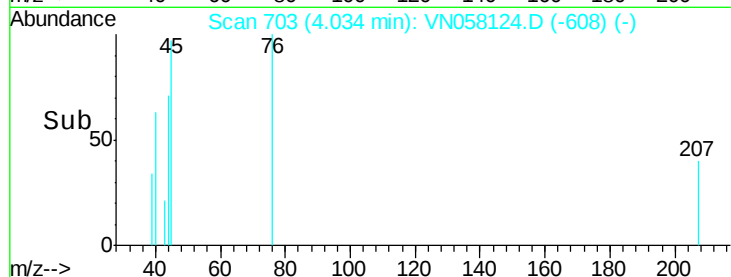
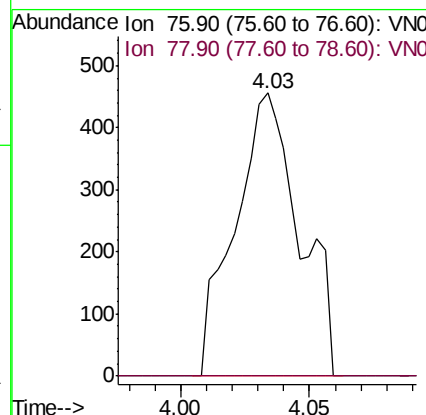
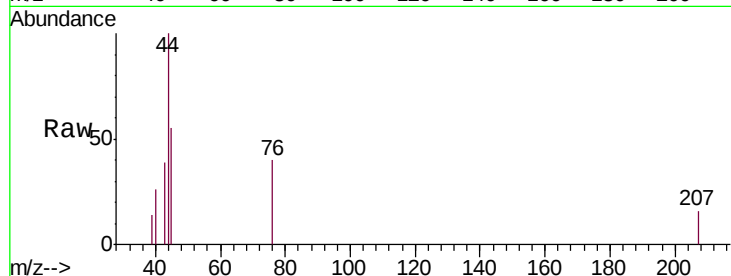




#17
Carbon Disulfide
Concen: 0.301 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.01 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

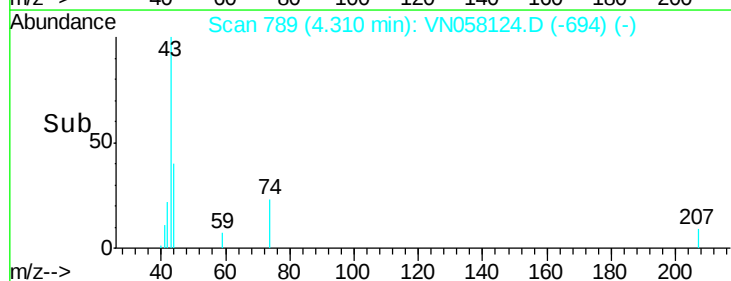
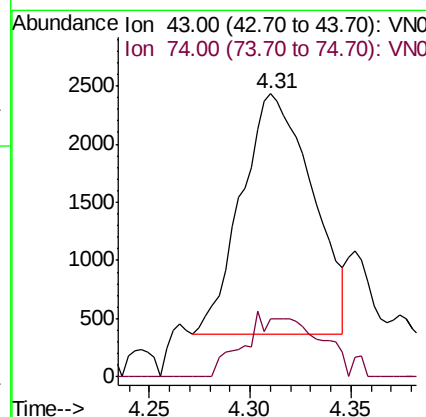
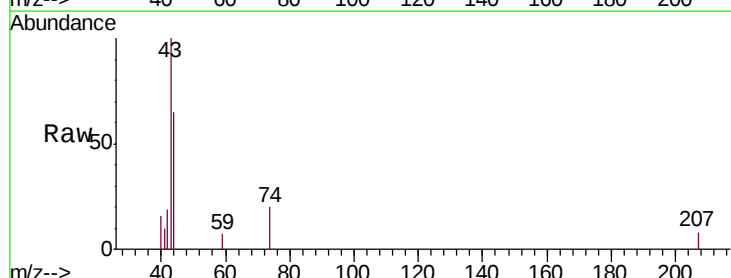
Instrument :
MSVOA_N
ClientSampled :
CSA-2-6

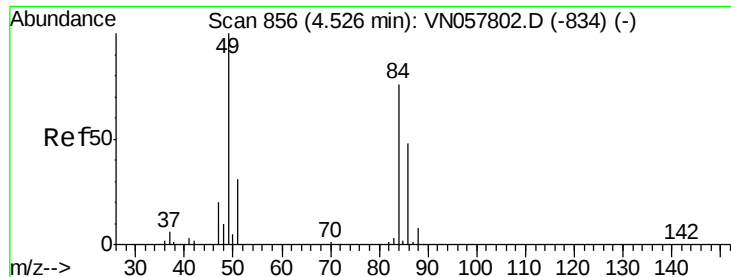
Tgt Ion: 76 Resp: 798
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.843 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

Tgt Ion: 43 Resp: 5043
Ion Ratio Lower Upper
43 100
74 26.9 17.9 26.9#





#20

Methylene Chloride

Concen: 27.865 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Instrument :

MSVOA_N

ClientSampled :

CSA-2-6

Tgt Ion: 84 Resp: 121363

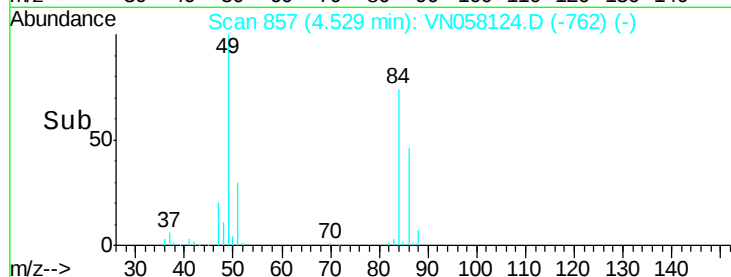
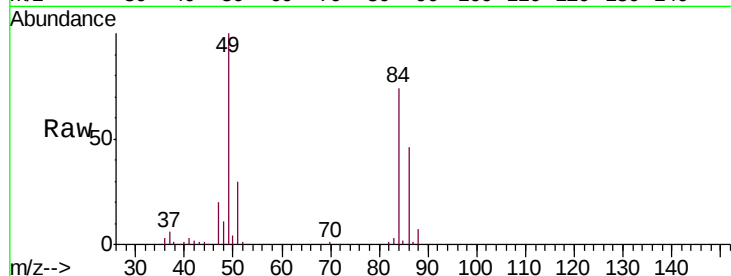
Ion Ratio Lower Upper

84 100

49 135.3 104.8 157.2

51 40.7 33.0 49.4

86 62.7 50.5 75.7

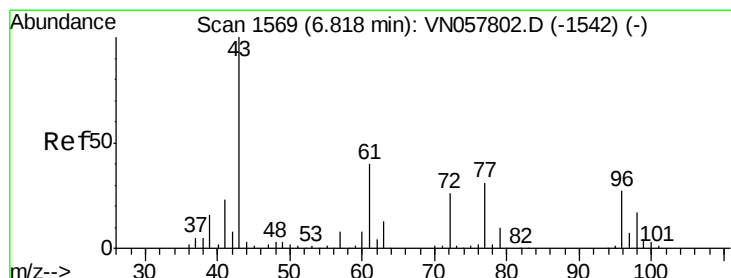
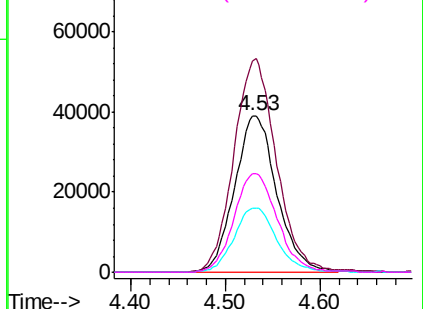


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 0.765 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN058124.D

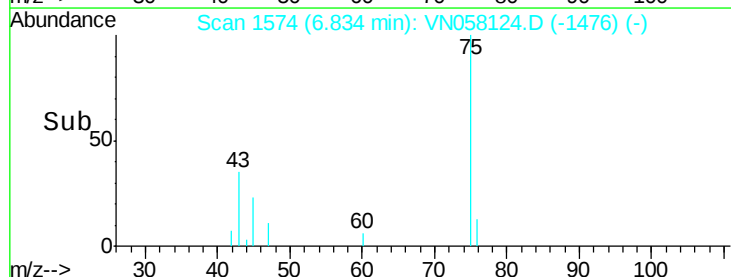
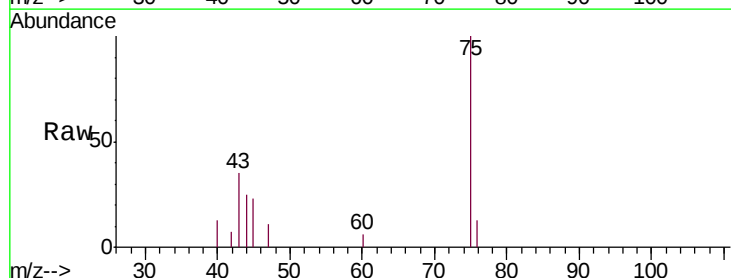
Acq: 16 Sep 2019 17:13

Tgt Ion: 43 Resp: 2485

Ion Ratio Lower Upper

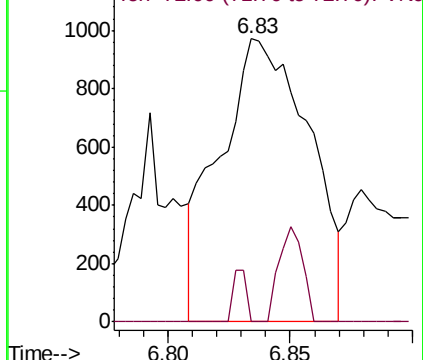
43 100

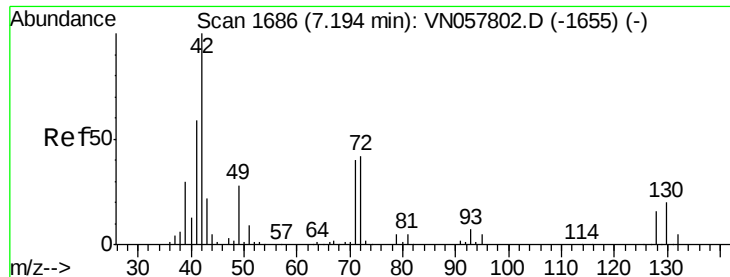
72 0.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Instrument :

MSVOA_N

ClientSampled :

CSA-2-6

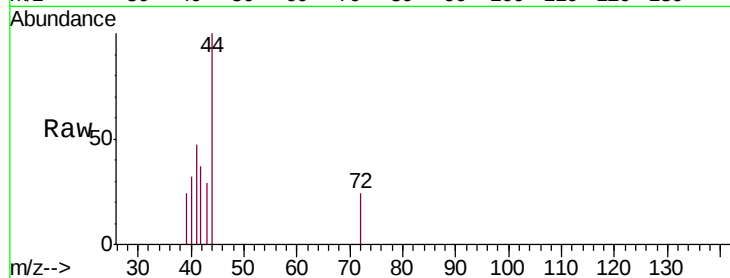
Tgt Ion: 42 Resp: 525

Ion Ratio Lower Upper

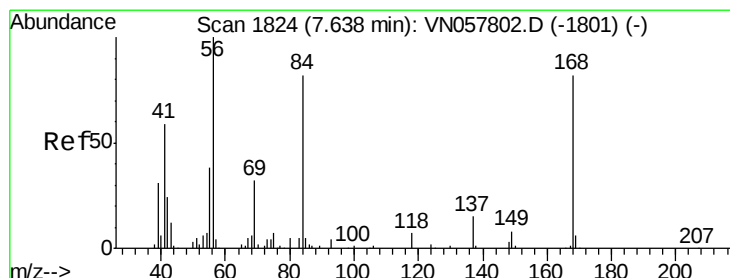
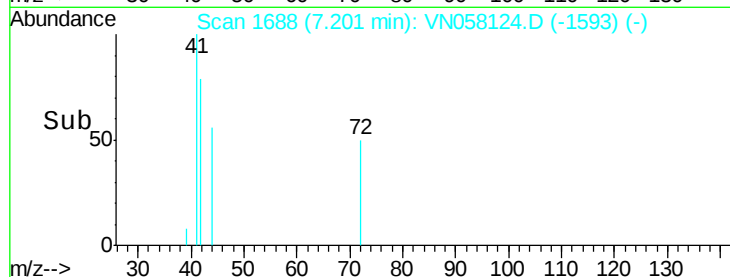
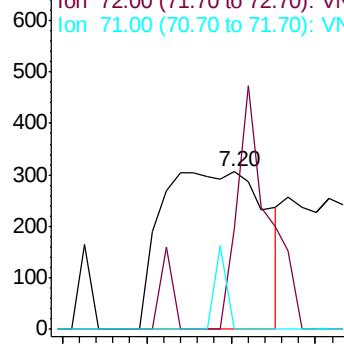
42 100

72 46.3 33.7 50.5

71 5.9 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

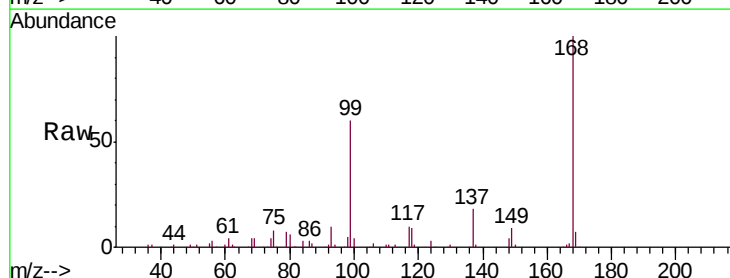
Tgt Ion: 56 Resp: 8715

Ion Ratio Lower Upper

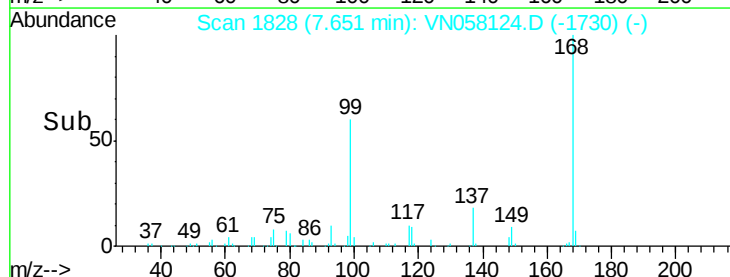
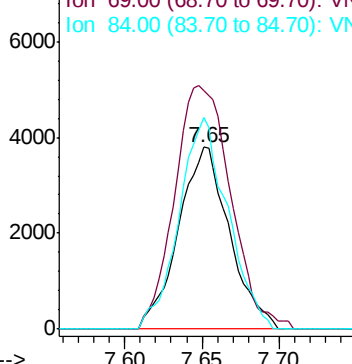
56 100

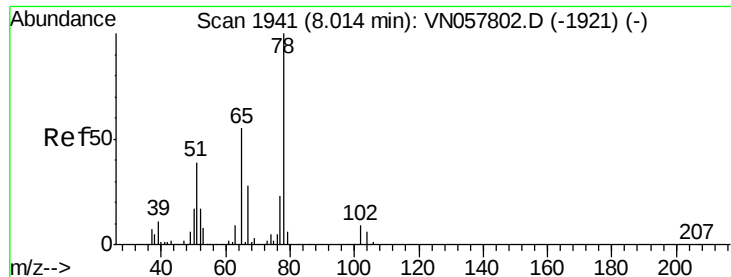
69 131.0 25.9 38.9#

84 116.4 65.6 98.4#



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

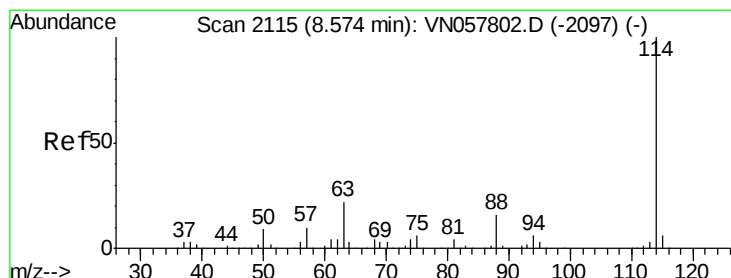
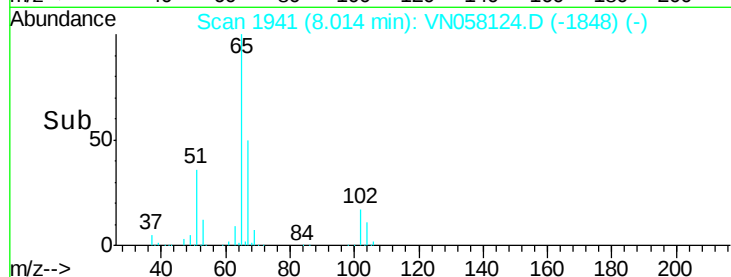
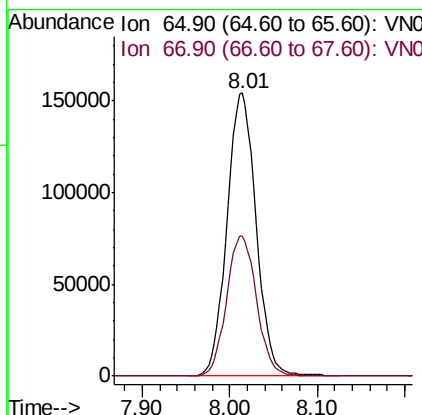
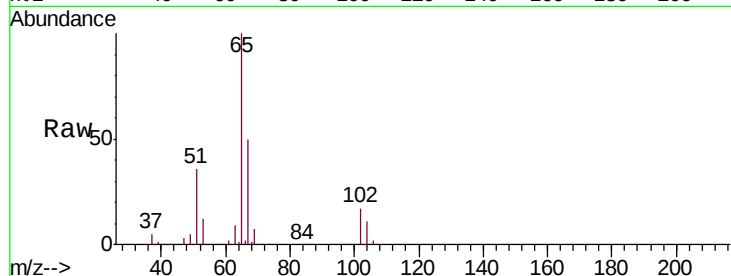




#33
 1,2-Dichloroethane-d4
 Concen: 52.193 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

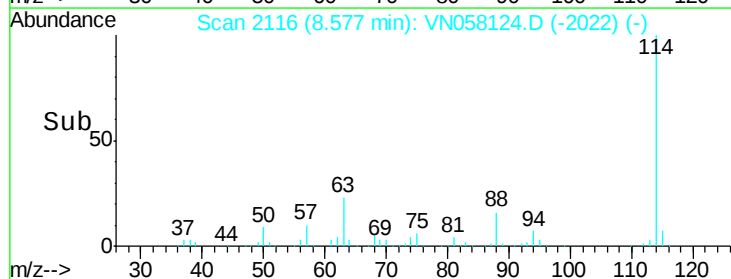
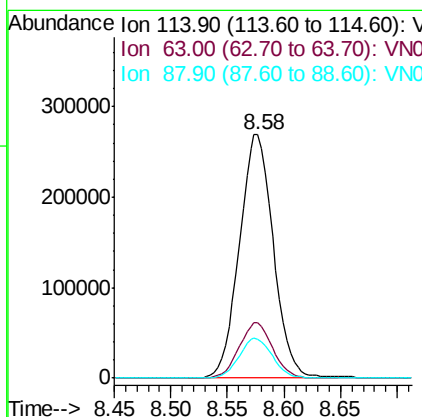
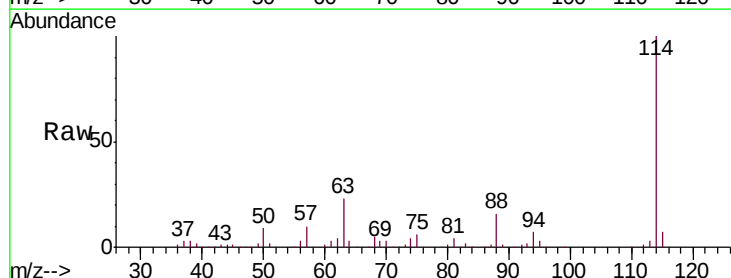
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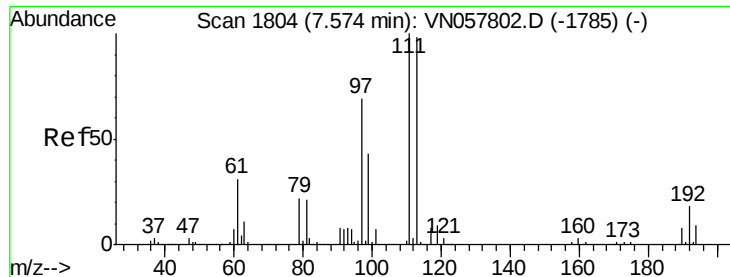
Tgt Ion: 65 Resp: 357261
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

Tgt Ion: 114 Resp: 562879
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 44.0
 88 16.2 0.0 31.4

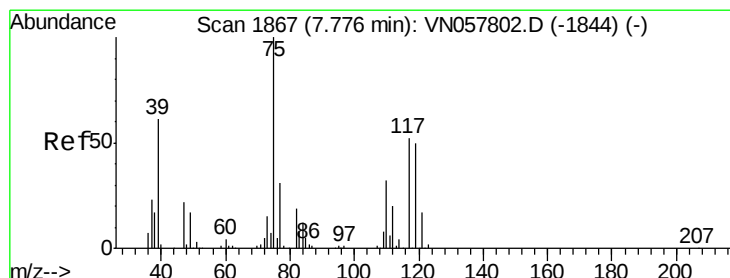
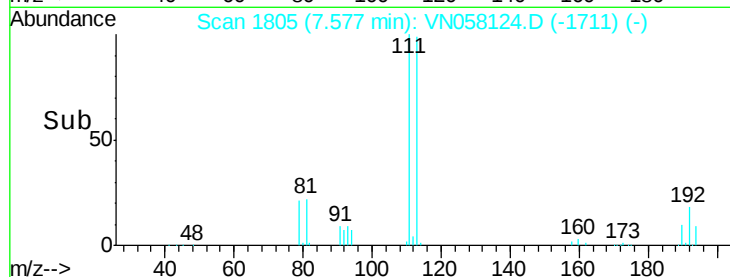
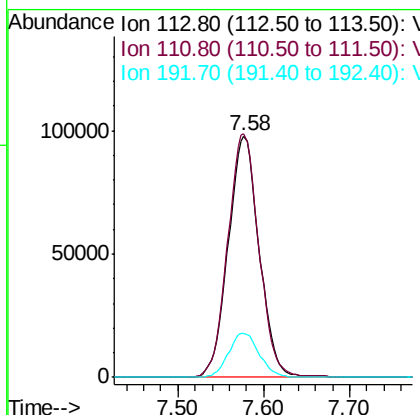
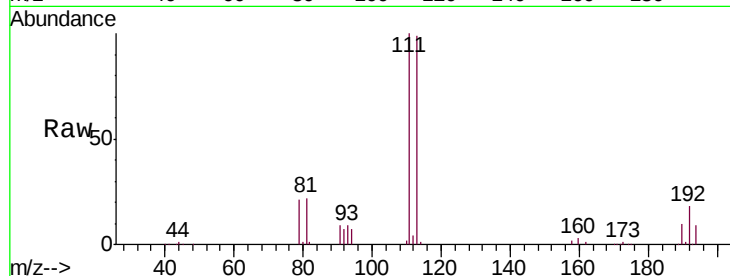




#35
 Dibromofluoromethane
 Concen: 47.029 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

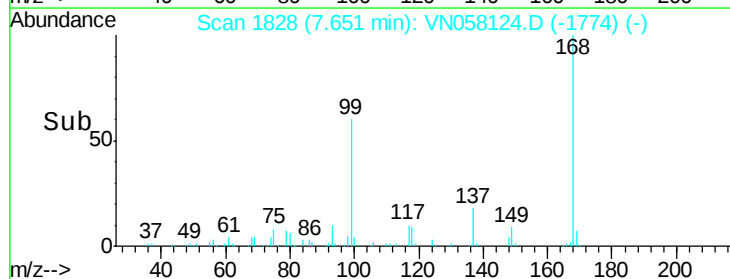
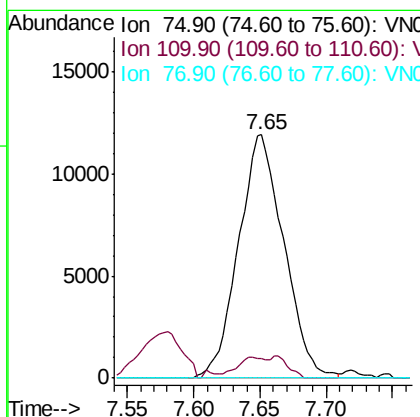
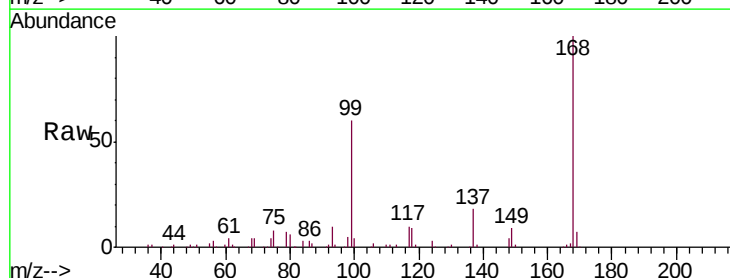
Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-6

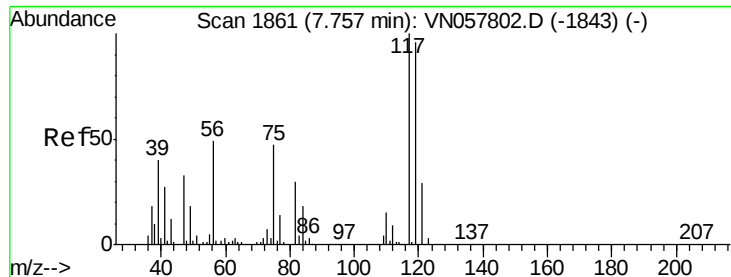
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.3	121.9
192	18.2	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.339 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.8	16.3	48.9#
77	0.0	25.0	37.4#

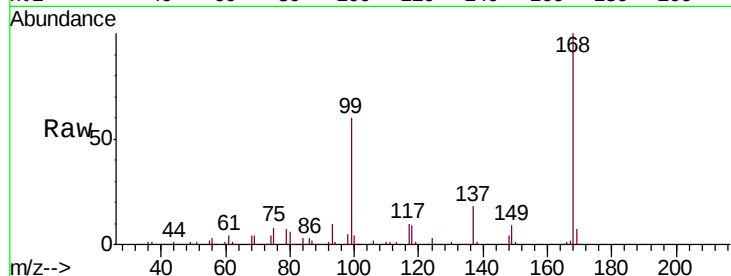




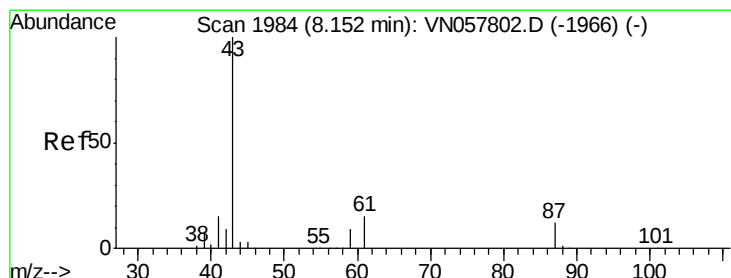
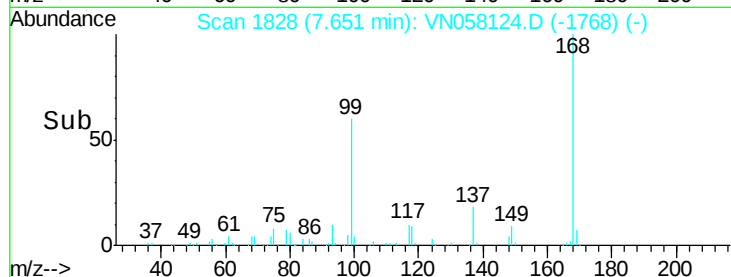
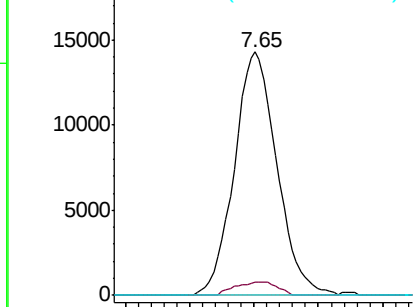
#38
Carbon Tetrachloride
Concen: 5.509 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

Instrument :
MSVOA_N
ClientSampled :
CSA-2-6

Tgt Ion: 117 Resp: 32835
Ion Ratio Lower Upper
117 100
119 5.4 76.9 115.3#
121 0.0 23.4 35.2#

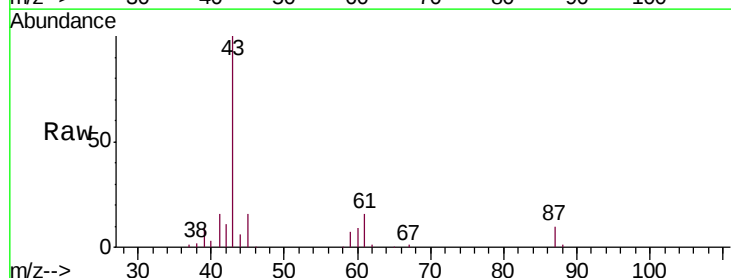


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

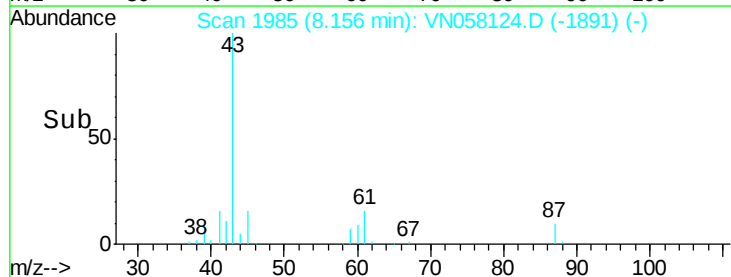
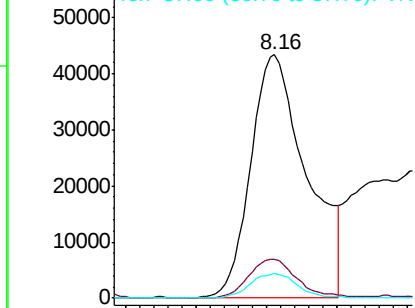


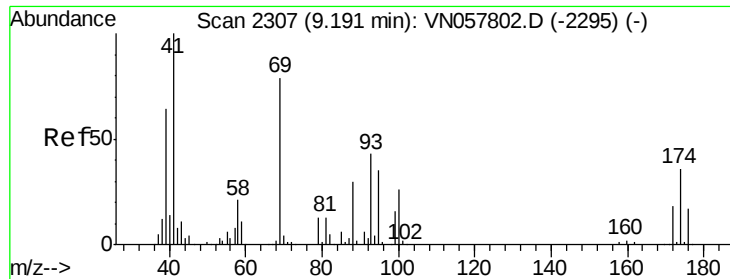
#43
Isopropyl Acetate
Concen: 10.674 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

Tgt Ion: 43 Resp: 121067
Ion Ratio Lower Upper
43 100
61 13.7 20.1 30.1#
87 8.4 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

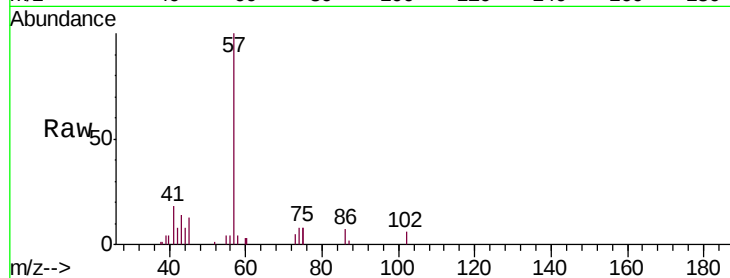




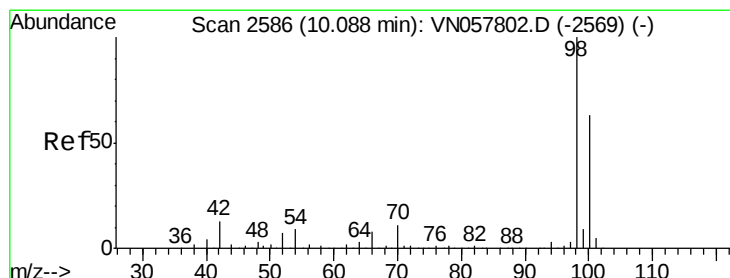
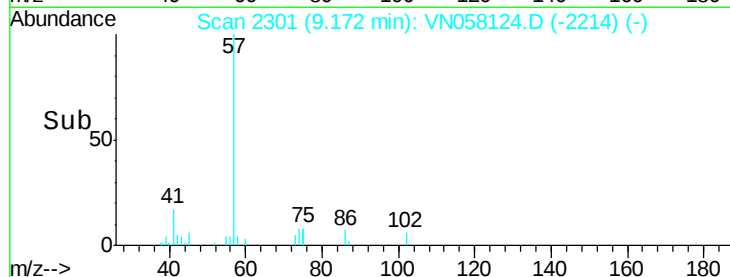
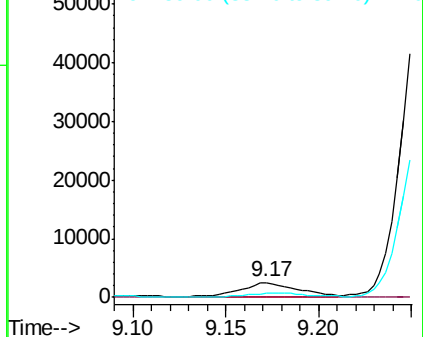
#48
Methyl methacrylate
Concen: 0.984 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

Instrument :
MSVOA_N
ClientSampled :
CSA-2-6

Tgt Ion: 41 Resp: 5661
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

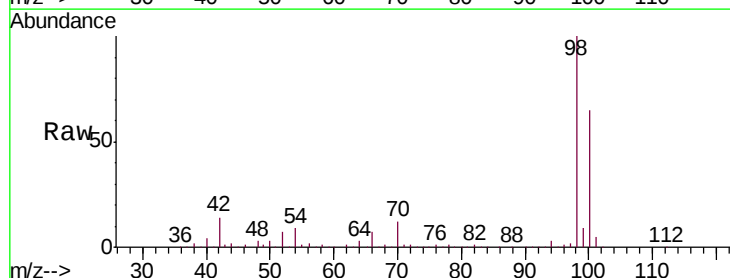


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

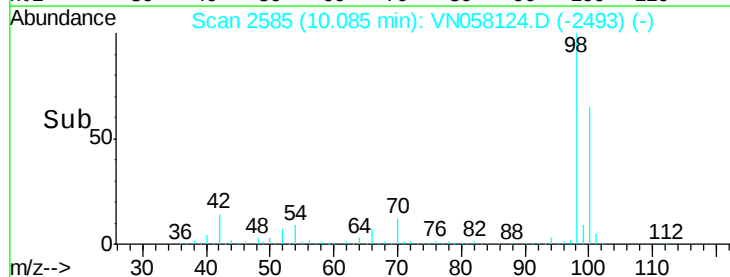
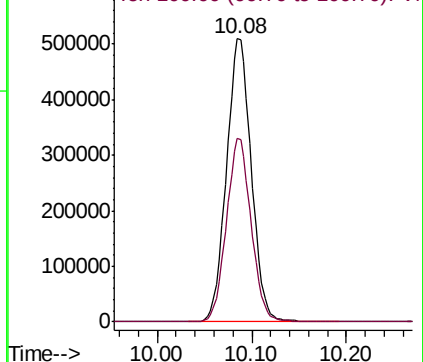


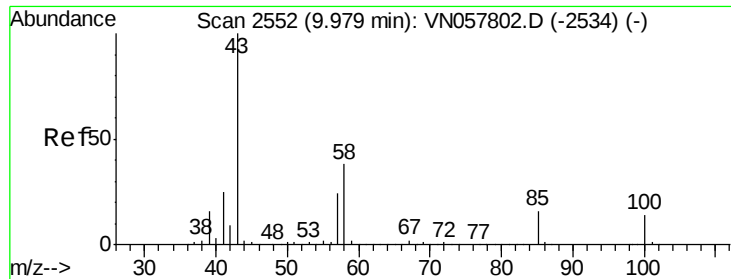
#50
Toluene-d8
Concen: 46.140 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058124.D
Acq: 16 Sep 2019 17:13

Tgt Ion: 98 Resp: 930666
Ion Ratio Lower Upper
98 100
100 64.4 50.3 75.5



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

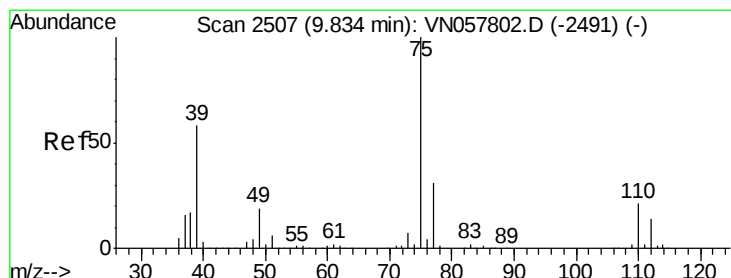
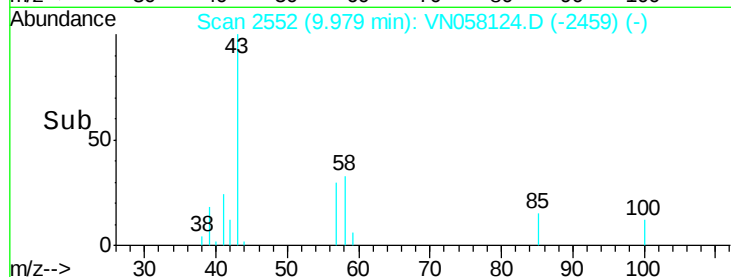
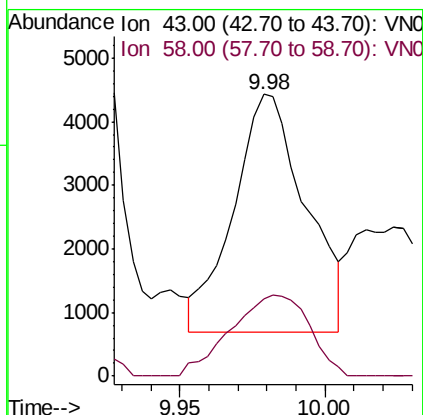
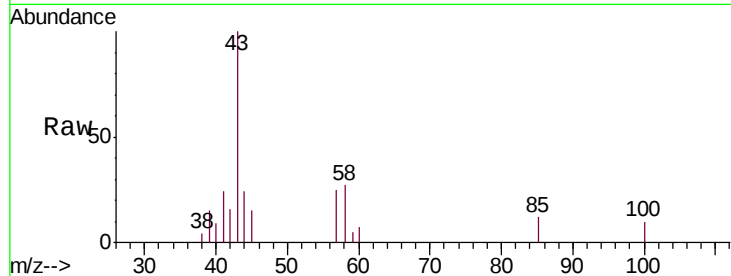




#51
 4-Methyl-2-Pentanone
 Concen: 0.958 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

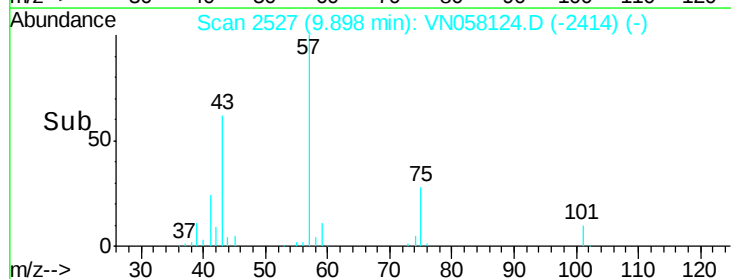
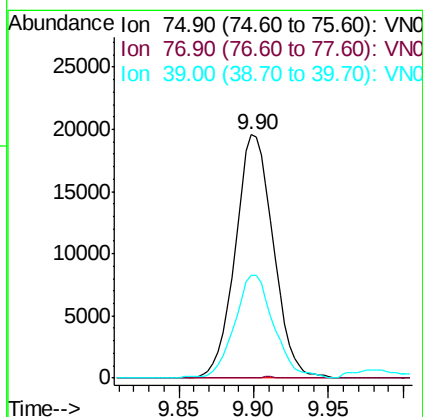
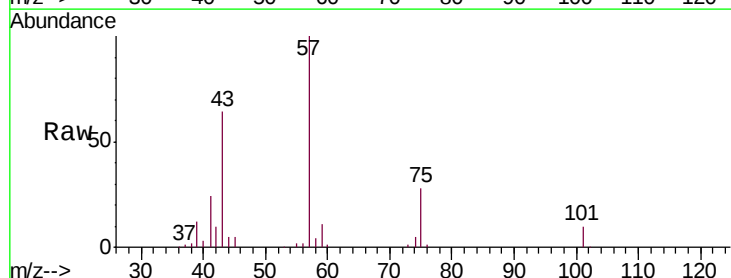
Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-6

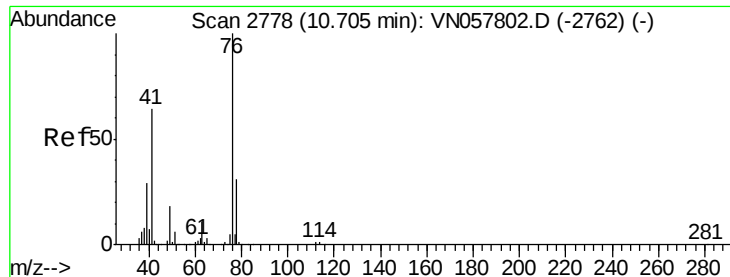
Tgt Ion: 43 Resp: 6432
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 4.316 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

Tgt Ion: 75 Resp: 34625
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 42.5 46.2 69.4#

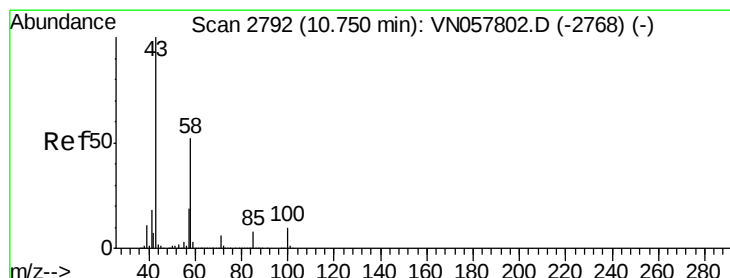
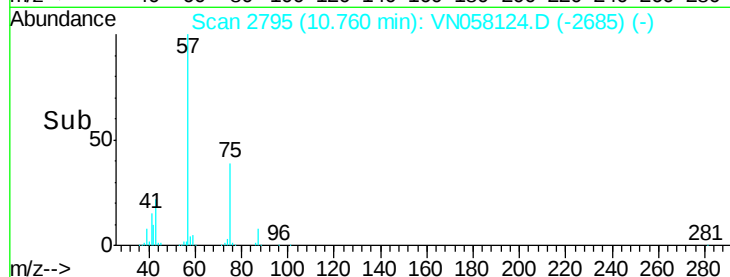
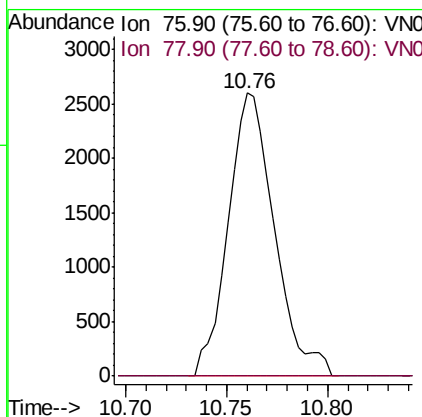
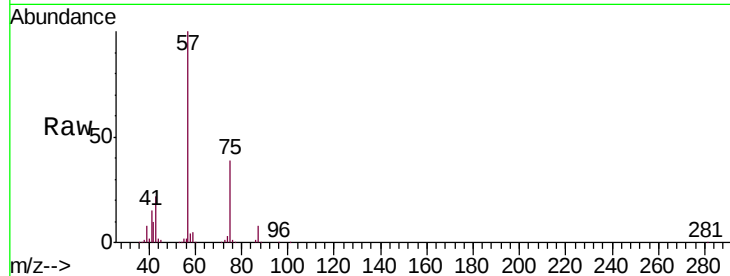




#57
 1,3-Dichloropropane
 Concen: 0.462 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

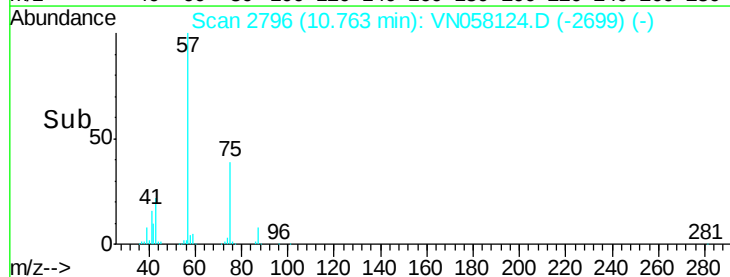
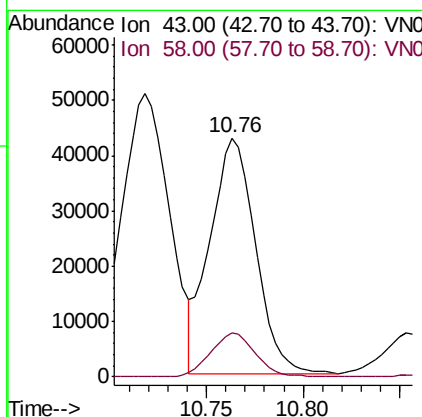
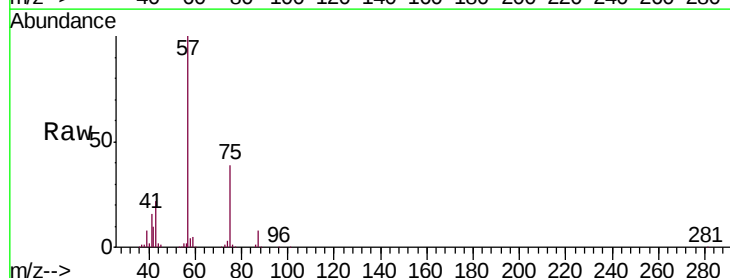
Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-6

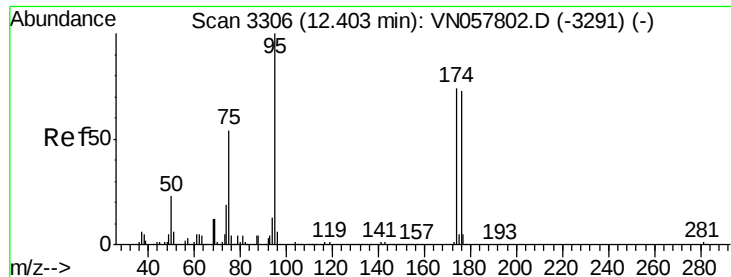
Tgt Ion: 76 Resp: 4175
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 13.850 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

Tgt Ion: 43 Resp: 69678
 Ion Ratio Lower Upper
 43 100
 58 18.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 40.957 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-6

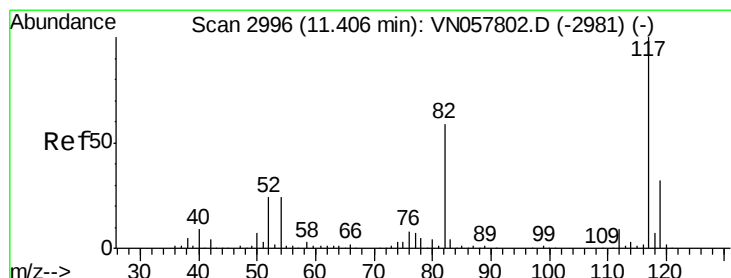
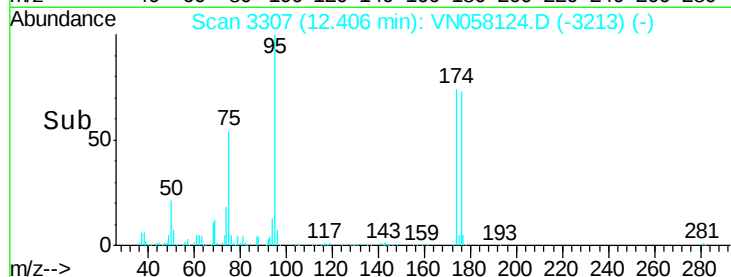
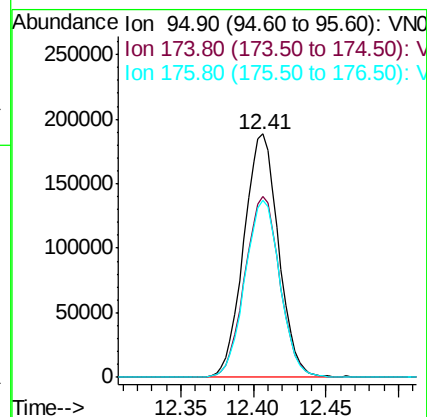
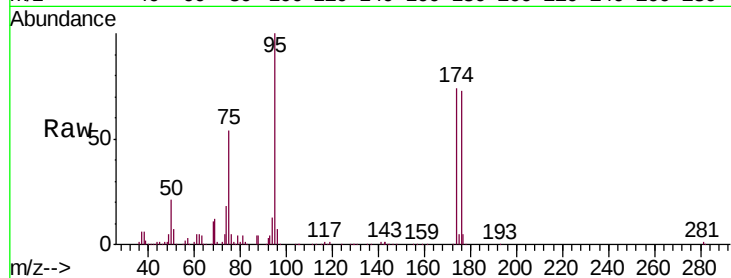
Tgt Ion: 95 Resp: 314826

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

176 73.2 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

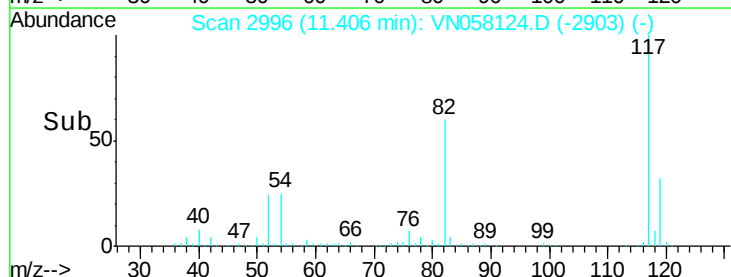
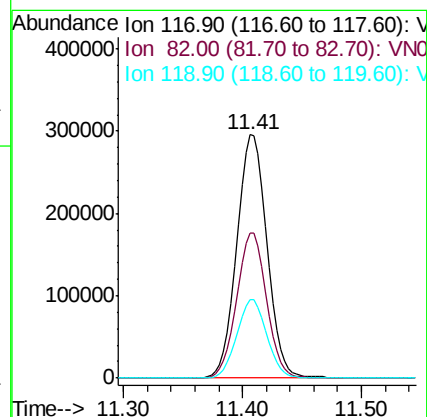
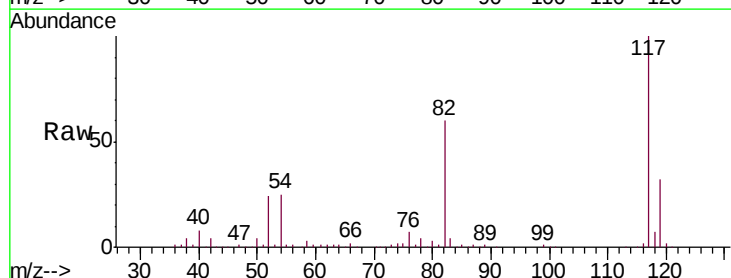
Tgt Ion: 117 Resp: 520583

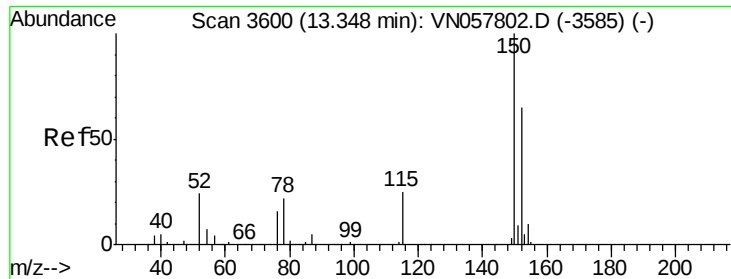
Ion Ratio Lower Upper

117 100

82 59.6 47.2 70.8

119 32.2 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-6

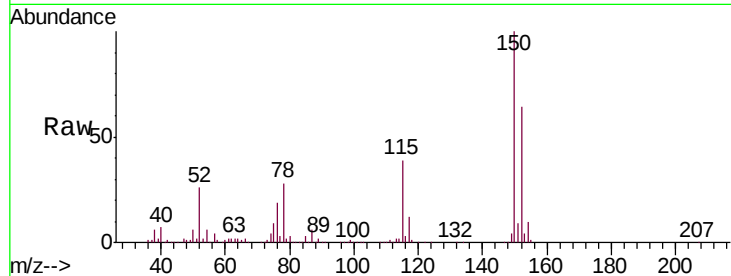
Tgt Ion:152 Resp: 275262

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

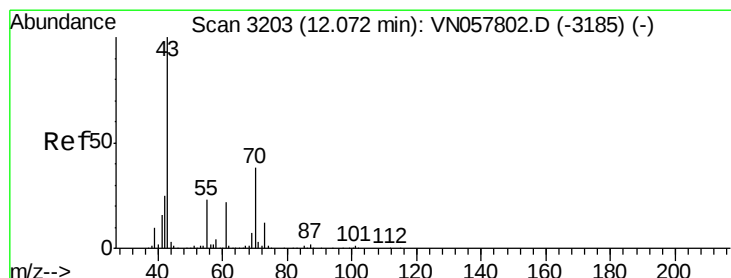
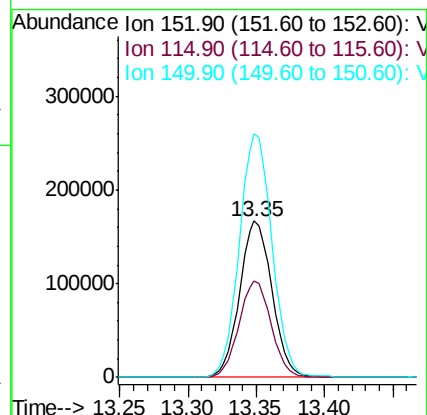
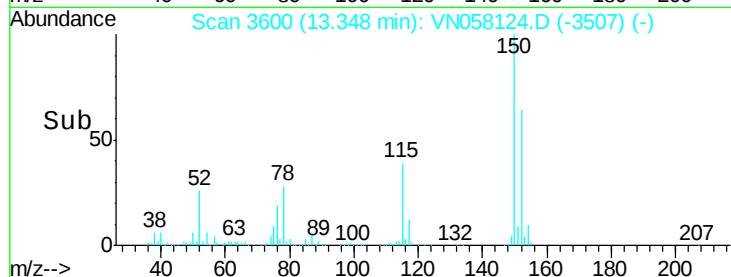
150 157.2 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.210 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Tgt Ion: 43 Resp: 1948

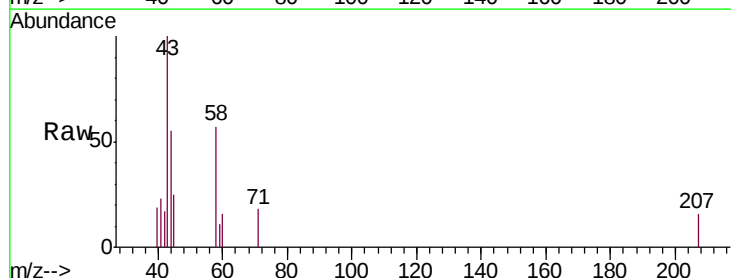
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 3.1 18.6 27.8#

61 0.0 17.4 26.2#

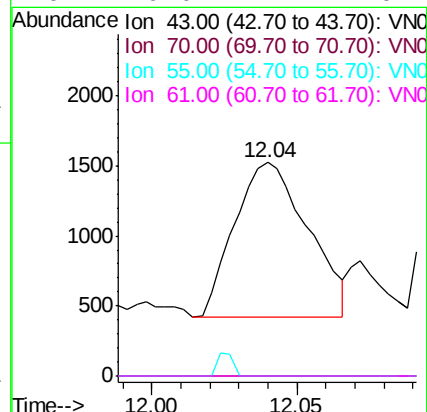
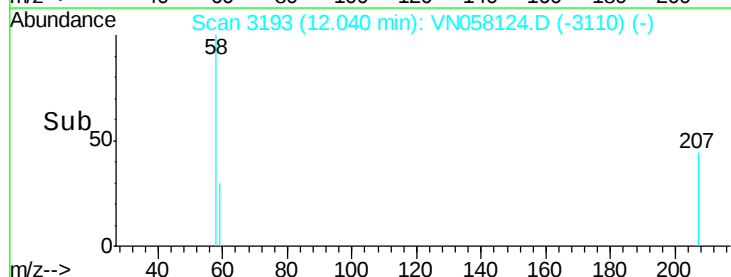


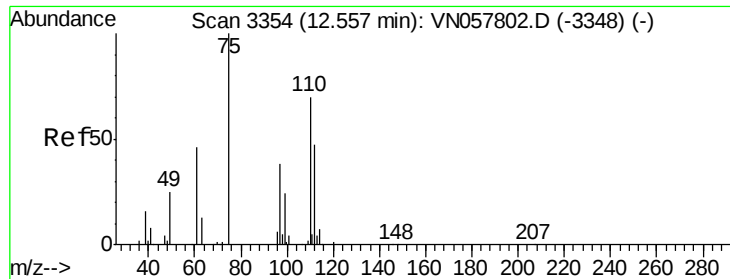
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

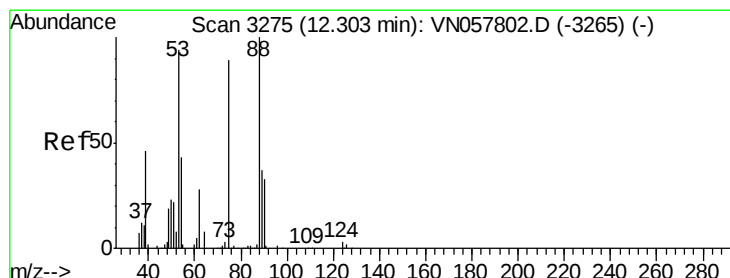
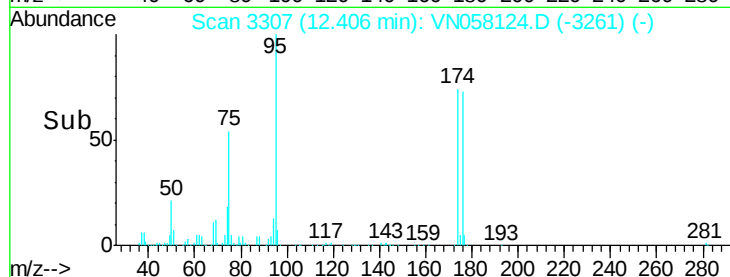
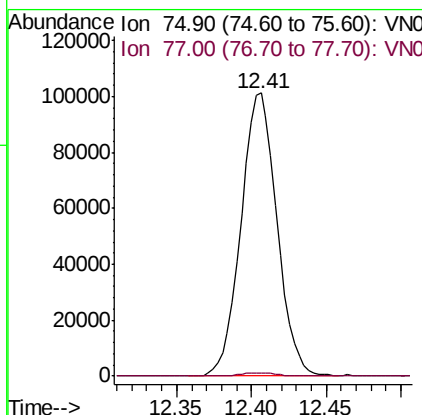
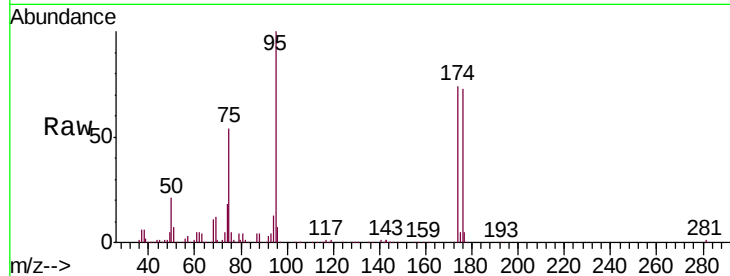




#76
 1,2,3-Trichloropropane
 Concen: 27.218 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

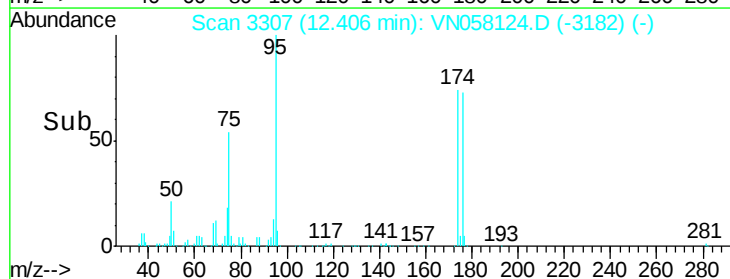
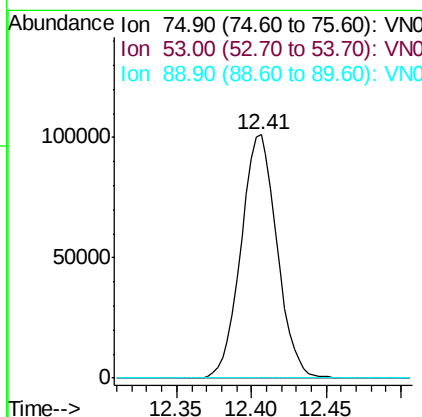
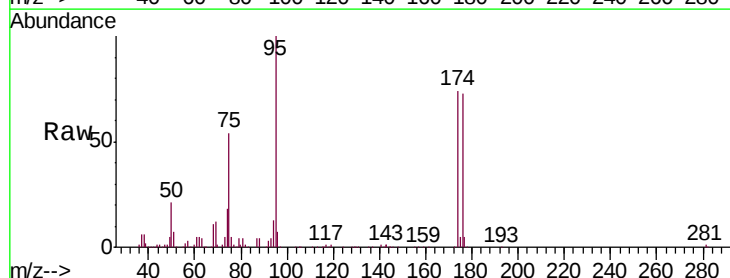
Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-6

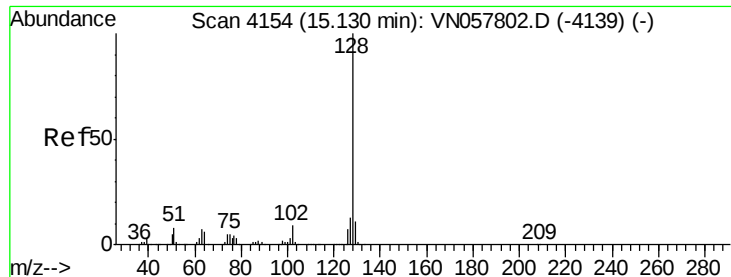
Tgt Ion: 75 Resp: 169483
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.780 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058124.D
 Acq: 16 Sep 2019 17:13

Tgt Ion: 75 Resp: 169483
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058124.D

Acq: 16 Sep 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-6

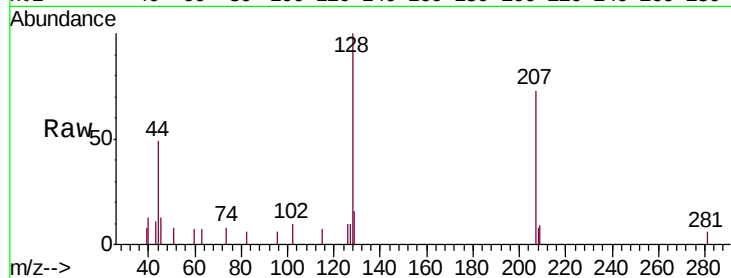
Tgt Ion:128 Resp: 4797

Ion Ratio Lower Upper

128 100

127 9.1 10.3 15.5#

129 11.5 8.6 12.8



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

