

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058110.D
 Acq On : 16 Sep 2019 12:06
 Operator : JC/SP
 Sample : K4877-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-4

Quant Time: Sep 17 03:49:19 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	360276	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	590618	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	539383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282179	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	366226	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
35) Dibromofluoromethane	7.58	113	254240	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
50) Toluene-d8	10.08	98	989656	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
62) 4-Bromofluorobenzene	12.40	95	333728	41.38	ug/l	0.00
Spiked Amount			Recovery	=	82.76%	

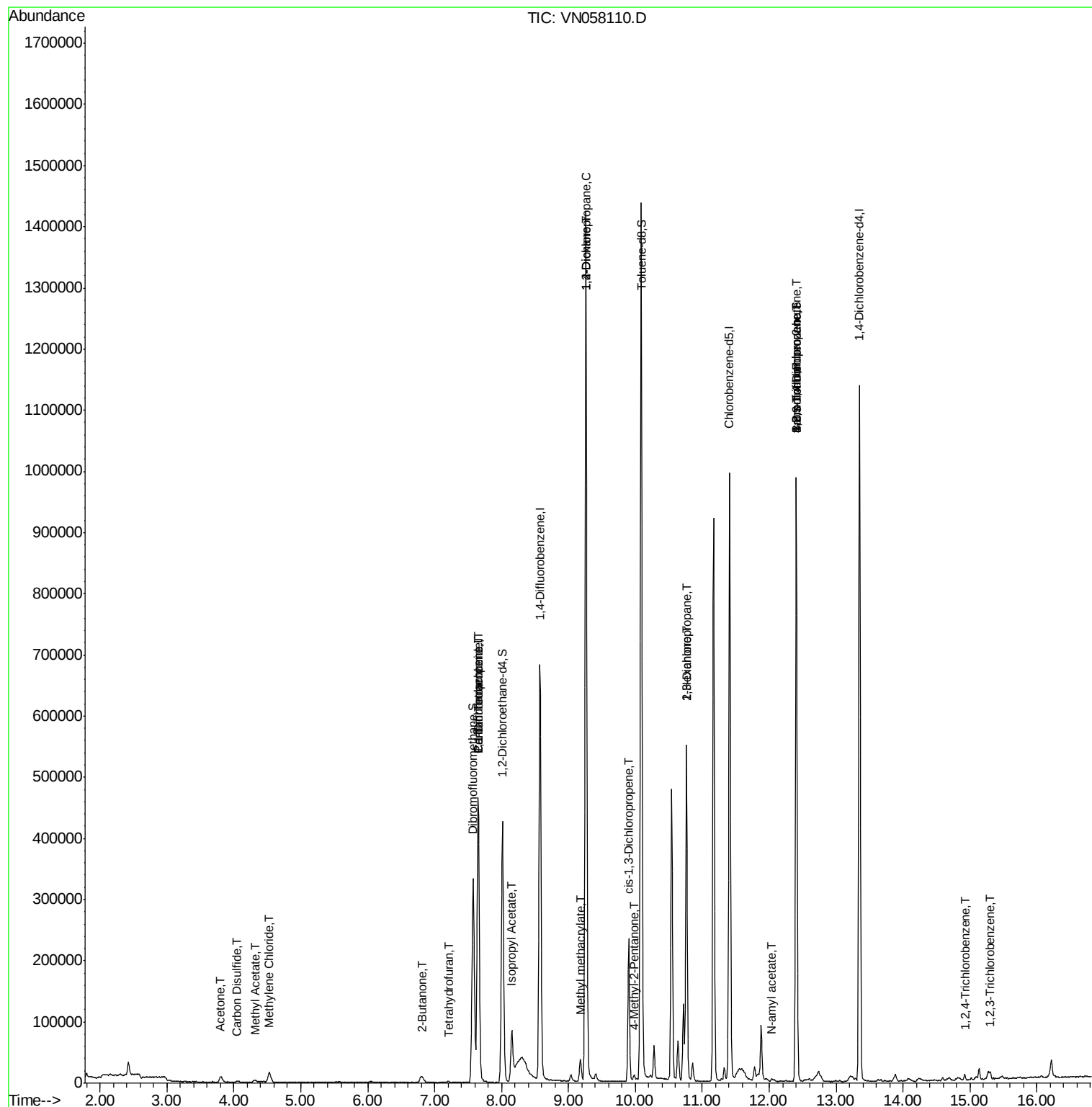
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	540	Below Cal		83
16) Acetone	3.80	43	18552	7.755	ug/l	96
17) Carbon Disulfide	4.03	76	983	0.323	ug/l #	75
18) Methyl Acetate	4.31	43	3933	0.617	ug/l #	89
20) Methylene Chloride	4.53	84	10815	1.173	ug/l	86
25) 2-Butanone	6.82	43	1087	0.314	ug/l #	62
29) Tetrahydrofuran	7.21	42	934	0.438	ug/l #	76
31) Cyclohexane	7.65	56	9711	Below Cal	#	35
36) 1,1-Dichloropropene	7.65	75	30316	4.426	ug/l #	50
38) Carbon Tetrachloride	7.65	117	37977	6.073	ug/l #	15
43) Isopropyl Acetate	8.15	43	103647	8.709	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1610	0.268	ug/l #	44
48) Methyl methacrylate	9.17	41	6322	1.047	ug/l #	13
49) 1,4-Dioxane	9.26	88	189	1.851	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6578	0.934	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	38977	4.630	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	5529	0.583	ug/l #	43
59) 2-Hexanone	10.76	43	85435	16.185	ug/l #	55
71) Bromoform	12.41	173	2407	0.788	ug/l #	1
74) N-amyl acetate	12.03	43	3083	0.324	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	182129	28.532	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	182129	100.404	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	2872	0.439	ug/l	92
95) Naphthalene	15.13	128	13740	Below Cal		98
96) 1,2,3-Trichlorobenzene	15.31	180	3736	1.639	ug/l	87

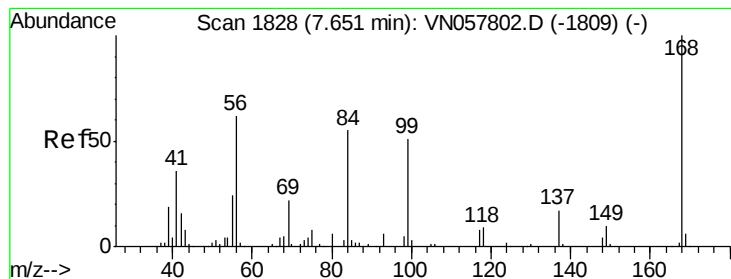
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

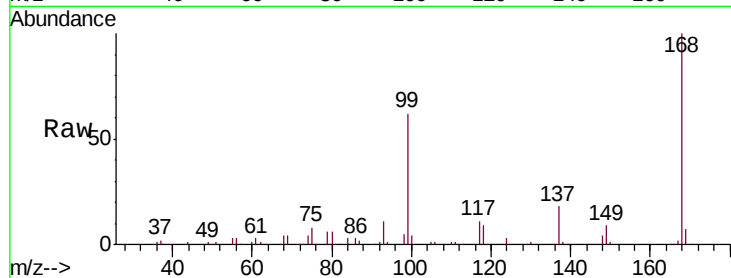
CSA-2-4

Tgt Ion: 168 Resp: 360276

Ion Ratio Lower Upper

168 100

99 61.6 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

150000

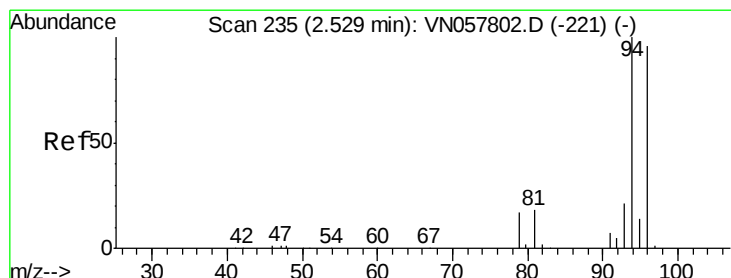
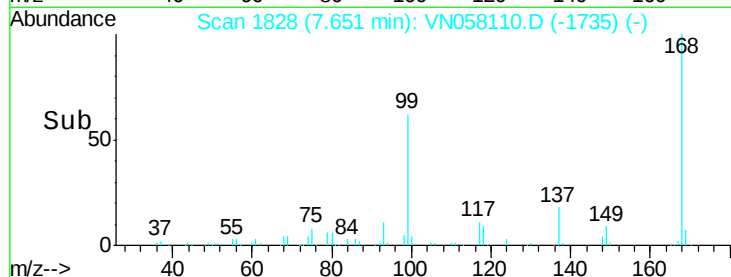
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.04 min

Lab File: VN058110.D

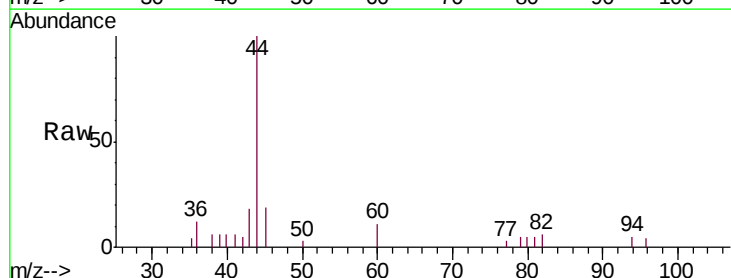
Acq: 16 Sep 2019 12:06

Tgt Ion: 94 Resp: 540

Ion Ratio Lower Upper

94 100

96 79.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

300

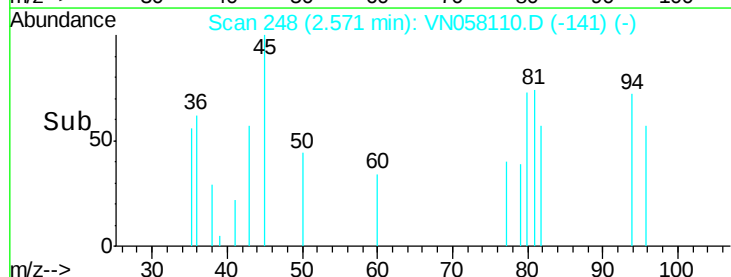
200

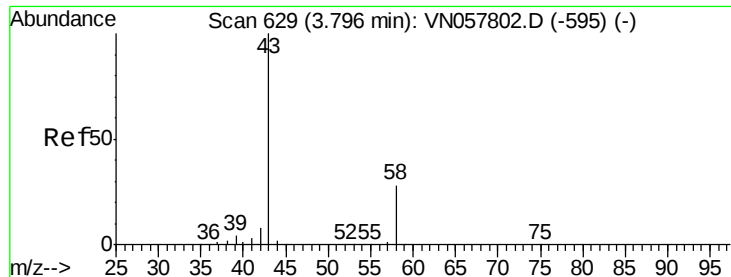
100

0

Time-->

2.52 2.54 2.56 2.58 2.60





#16

Acetone

Concen: 7.755 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

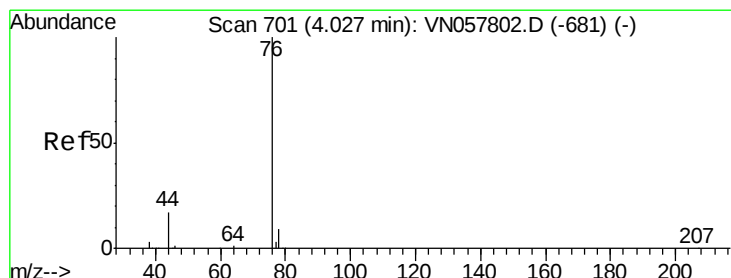
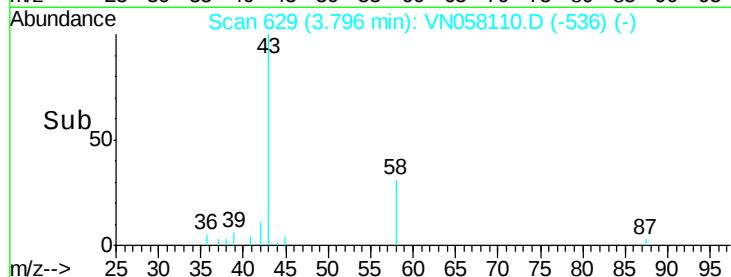
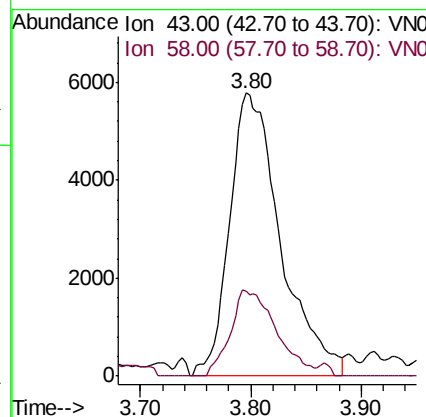
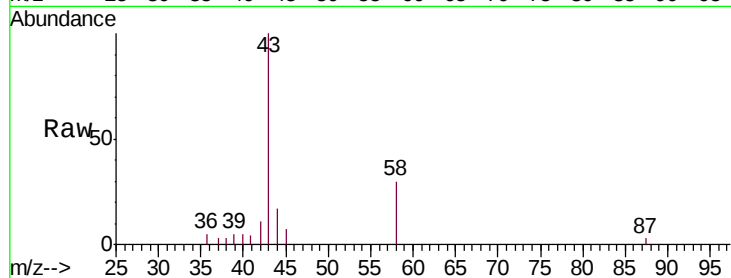
CSA-2-4

Tgt Ion: 43 Resp: 18552

Ion Ratio Lower Upper

43 100

58 29.9 22.2 33.2



#17

Carbon Disulfide

Concen: 0.323 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN058110.D

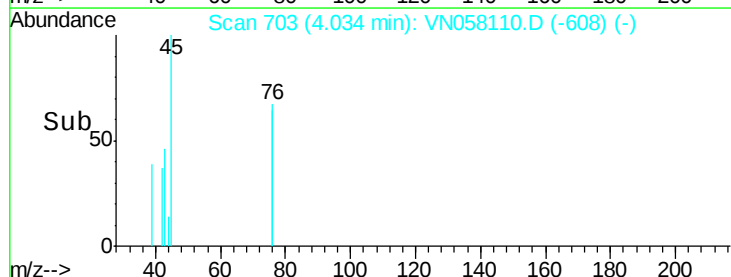
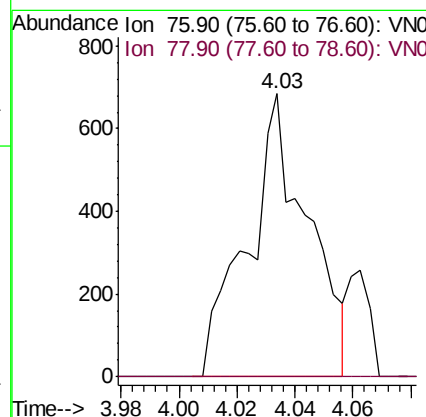
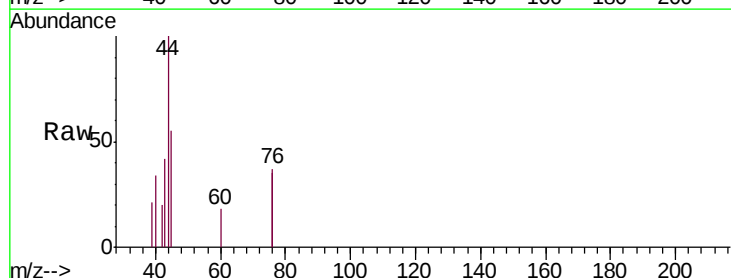
Acq: 16 Sep 2019 12:06

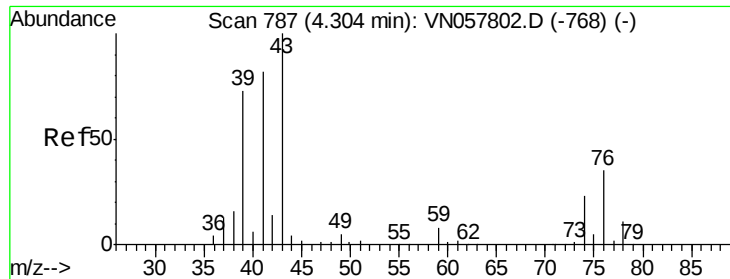
Tgt Ion: 76 Resp: 983

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

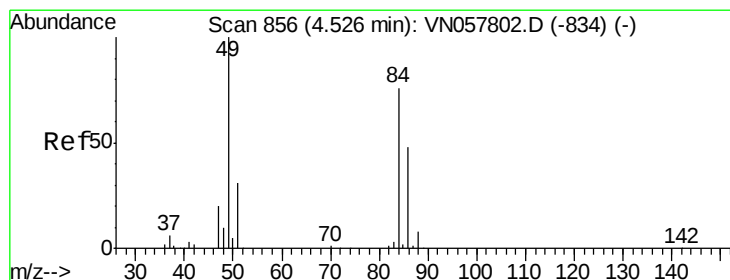
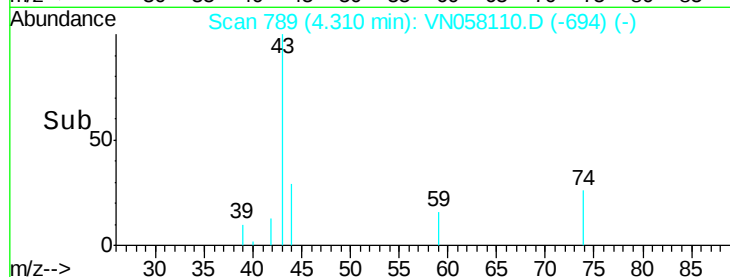
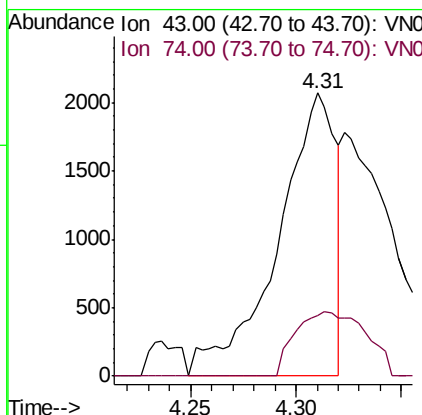
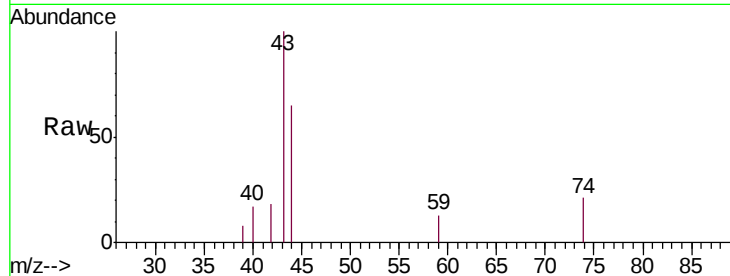




#18
Methyl Acetate
Concen: 0.617 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

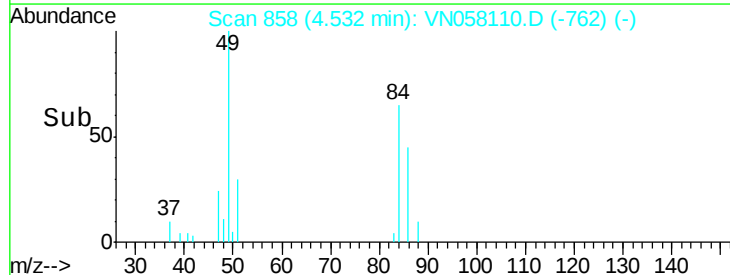
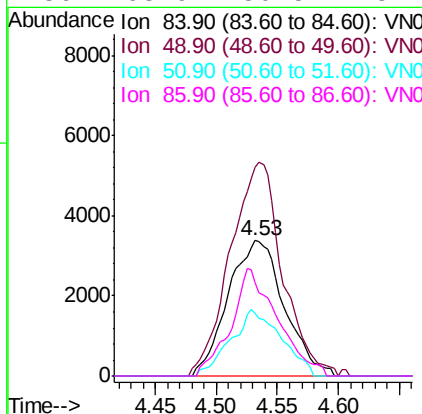
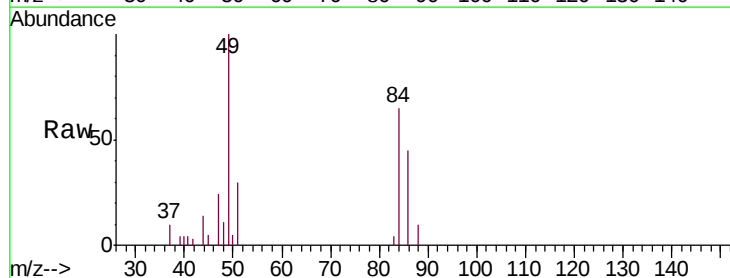
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-4

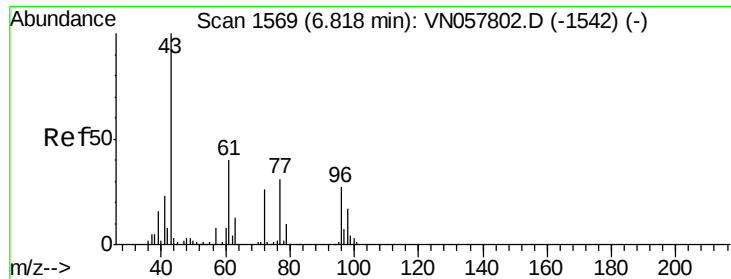
Tgt Ion: 43 Resp: 3933
Ion Ratio Lower Upper
43 100
74 27.7 17.9 26.9#



#20
Methylene Chloride
Concen: 1.173 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 84 Resp: 10815
Ion Ratio Lower Upper
84 100
49 153.6 104.8 157.2
51 46.1 33.0 49.4
86 68.9 50.5 75.7

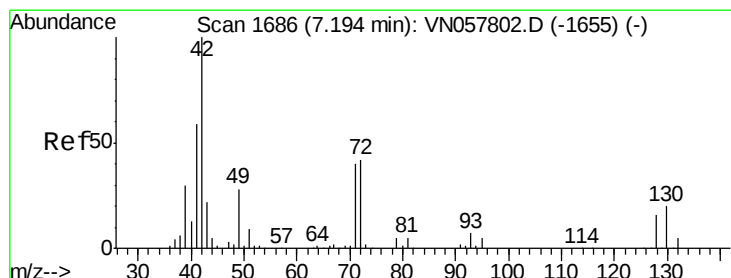
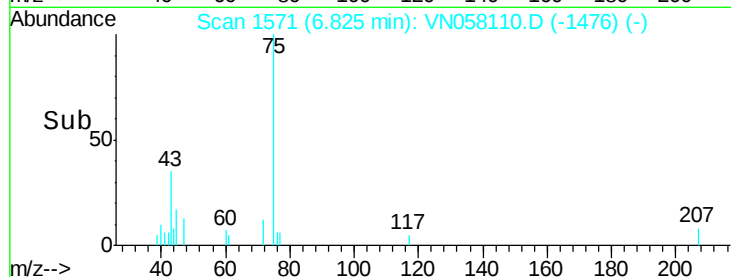
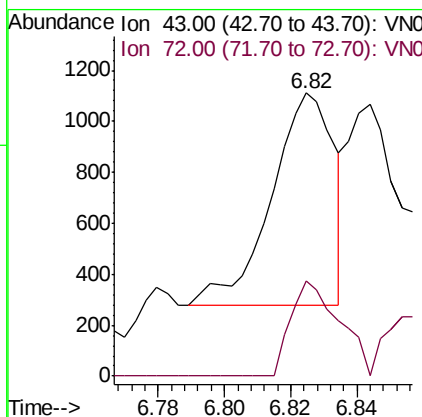
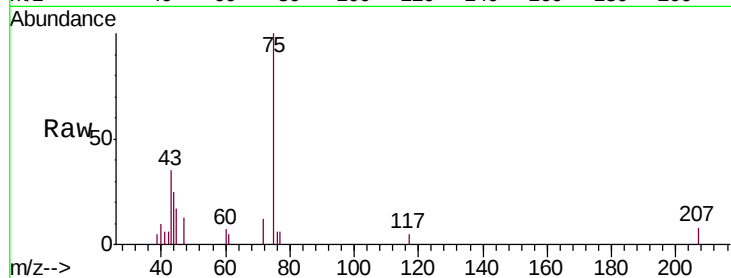




#25
2-Butanone
Concen: 0.314 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

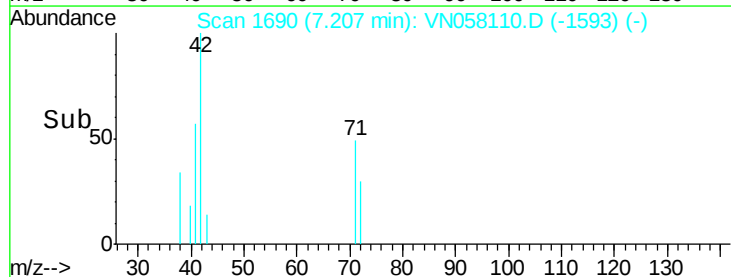
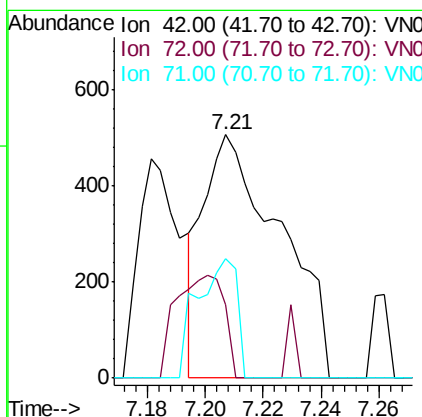
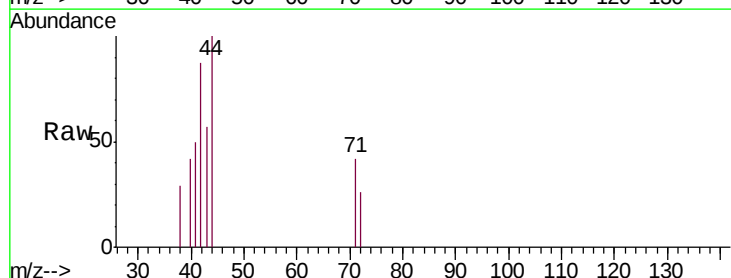
Instrument :
MSVOA_N
ClientSampled :
CSA-2-4

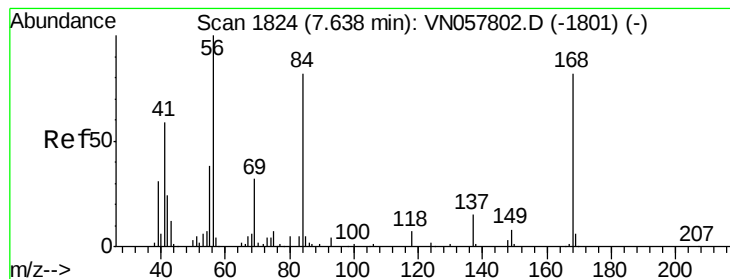
Tgt Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
72 44.9 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.438 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 42 Resp: 934
Ion Ratio Lower Upper
42 100
72 26.6 33.7 50.5#
71 25.1 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

CSA-2-4

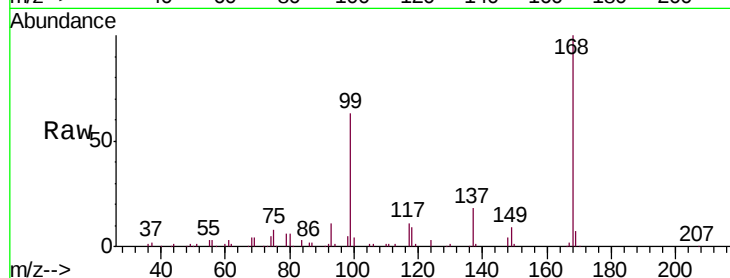
Tgt Ion: 56 Resp: 9711

Ion Ratio Lower Upper

56 100

69 143.8 25.9 38.9#

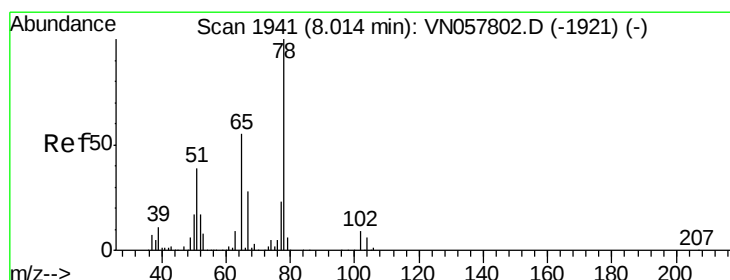
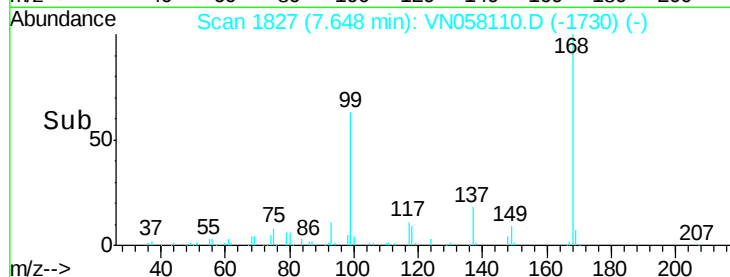
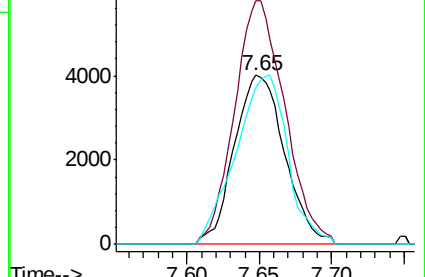
84 92.3 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VN058110.D (-1730) (-)

Ion 69.00 (68.70 to 69.70): VN058110.D (-1730) (-)

Ion 84.00 (83.70 to 84.70): VN058110.D (-1730) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.188 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058110.D

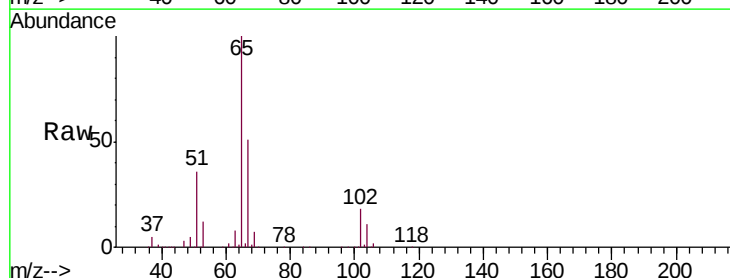
Acq: 16 Sep 2019 12:06

Tgt Ion: 65 Resp: 366226

Ion Ratio Lower Upper

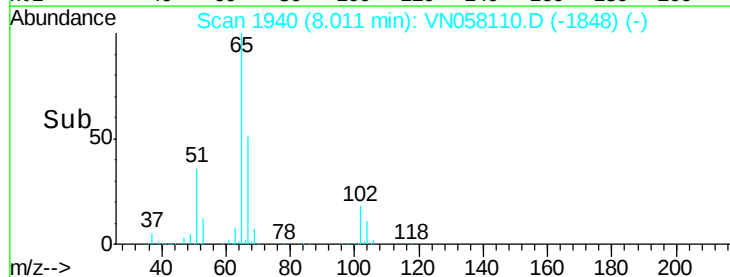
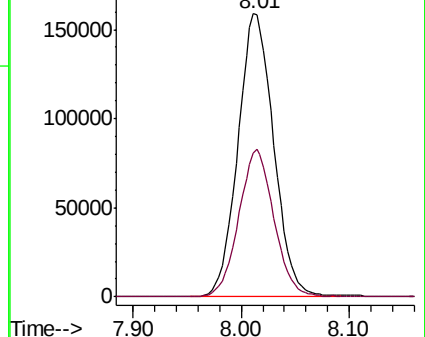
65 100

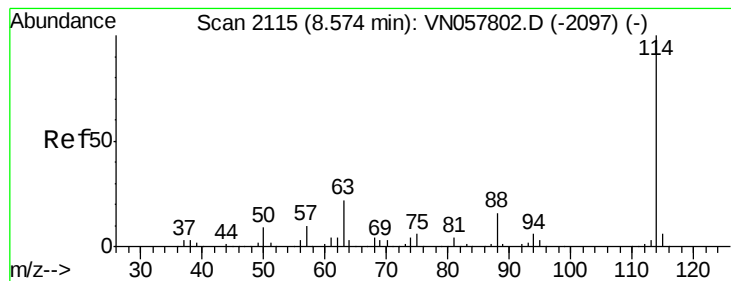
67 51.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN058110.D (-1848) (-)

Ion 66.90 (66.60 to 67.60): VN058110.D (-1848) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-4

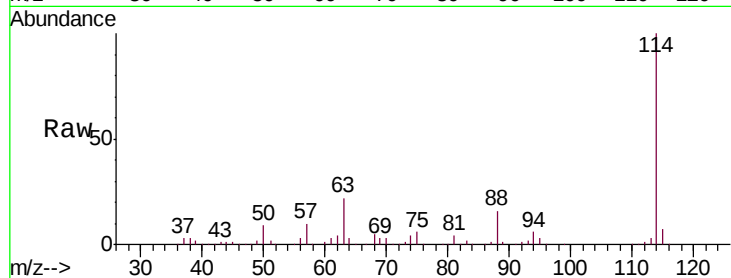
Tgt Ion:114 Resp: 590618

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.0

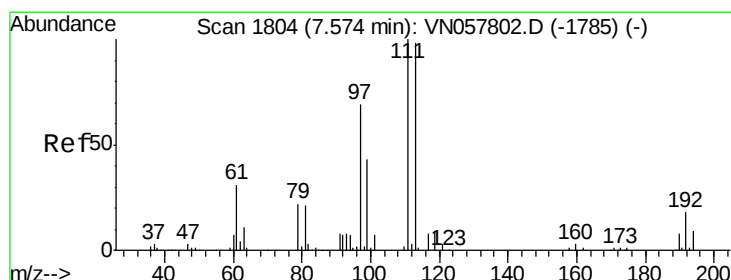
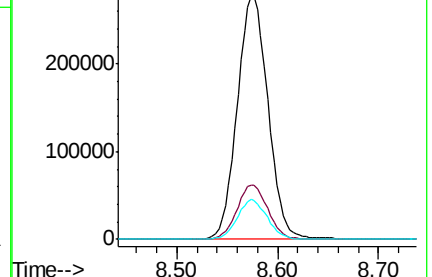
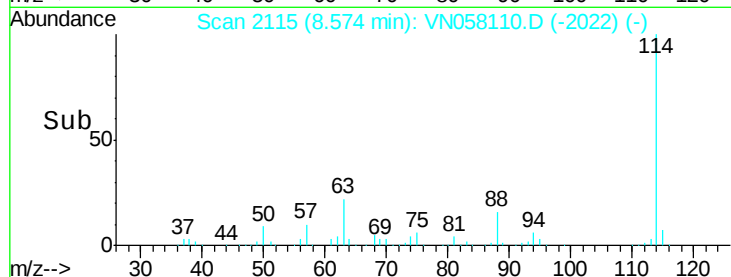
88 16.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.640 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

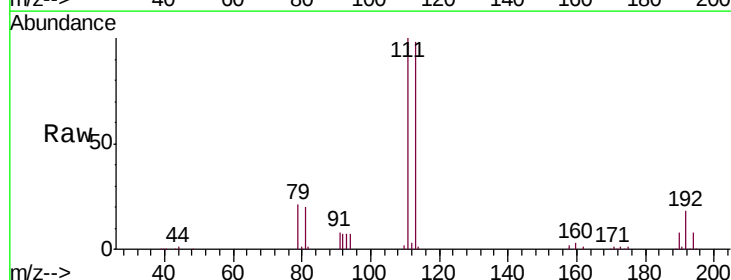
Tgt Ion:113 Resp: 254240

Ion Ratio Lower Upper

113 100

111 103.6 81.3 121.9

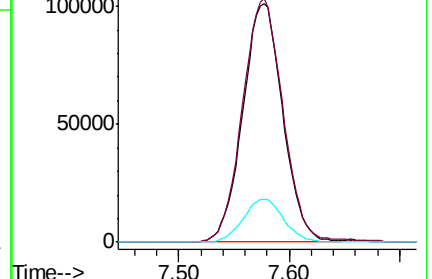
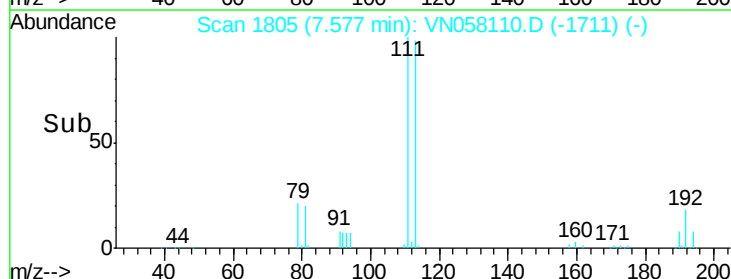
192 18.2 14.6 22.0

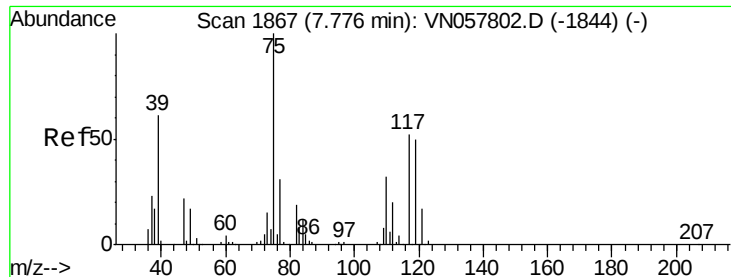


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.426 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

CSA-2-4

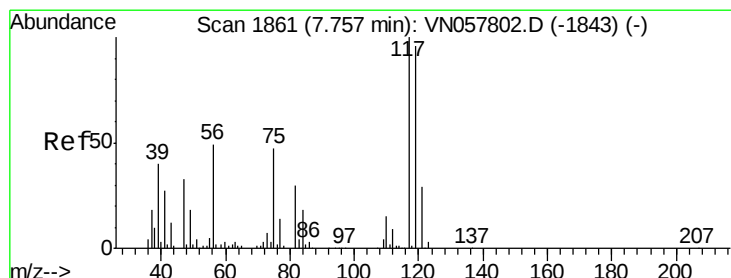
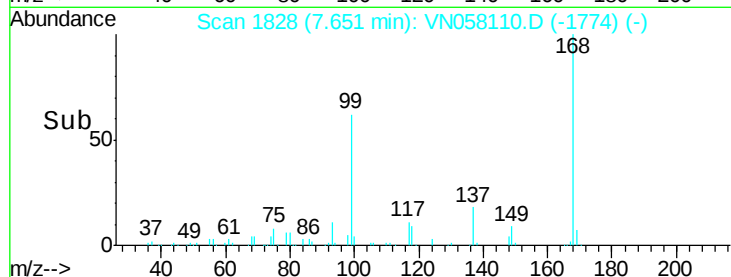
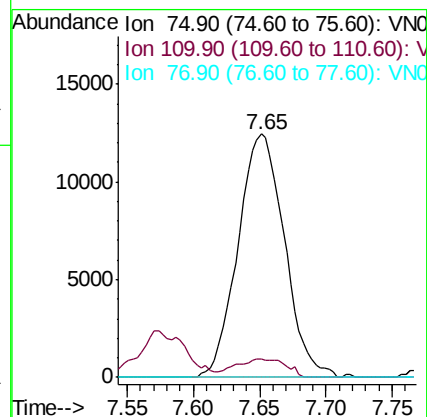
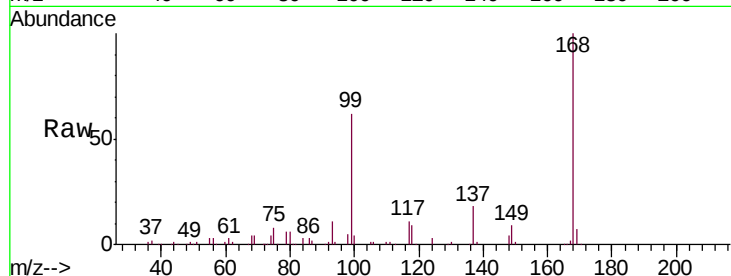
Tgt Ion: 75 Resp: 30316

Ion Ratio Lower Upper

75 100

110 8.1 16.3 48.9#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.073 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

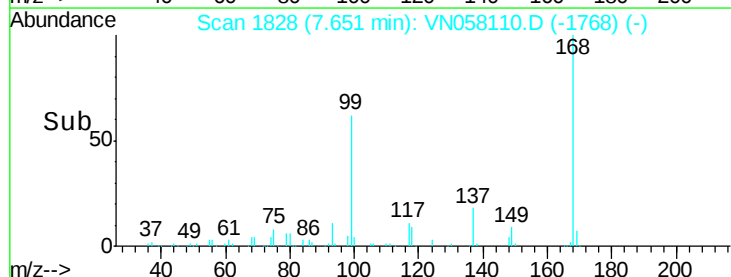
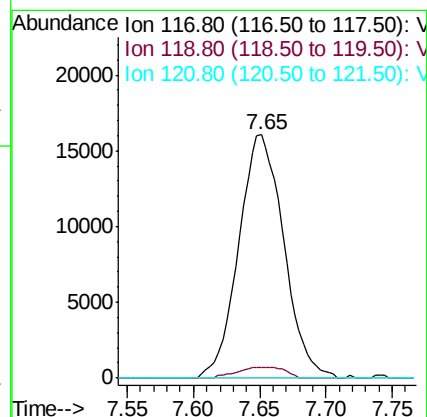
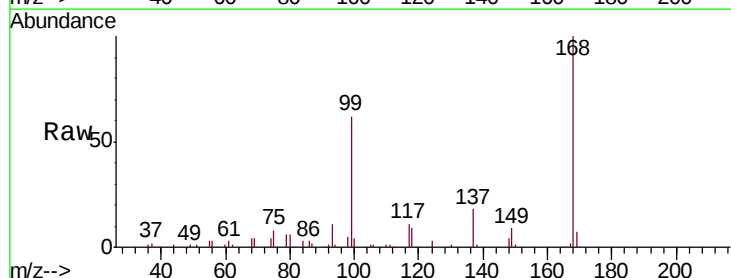
Tgt Ion: 117 Resp: 37977

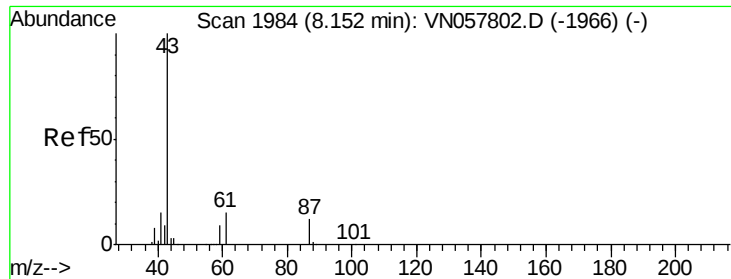
Ion Ratio Lower Upper

117 100

119 4.5 76.9 115.3#

121 0.0 23.4 35.2#

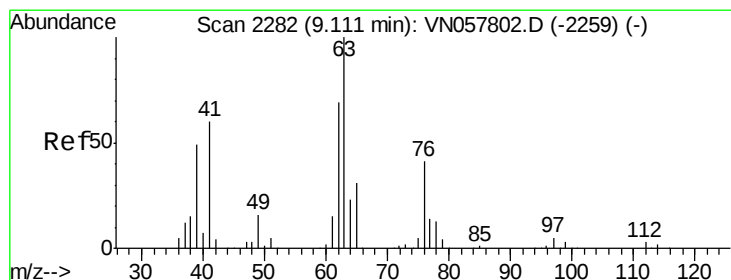
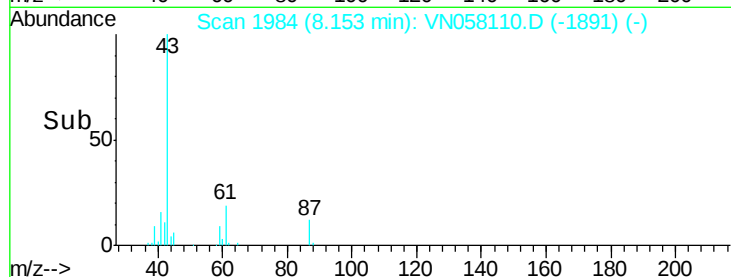
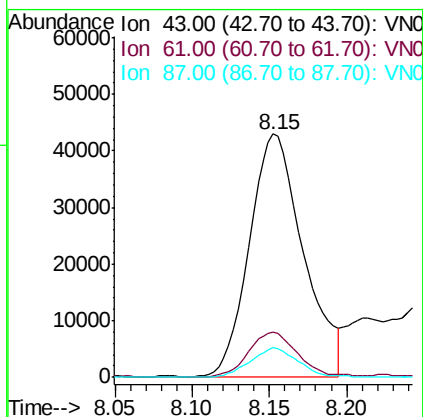
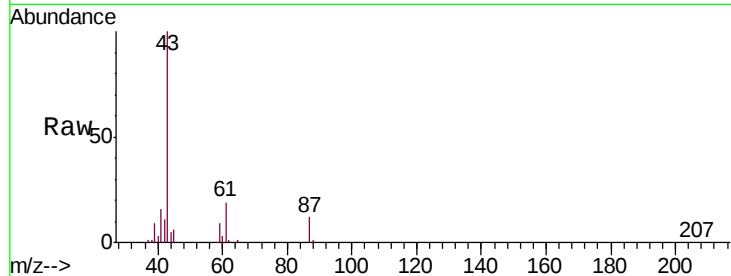




#43
Isopropyl Acetate
Concen: 8.709 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

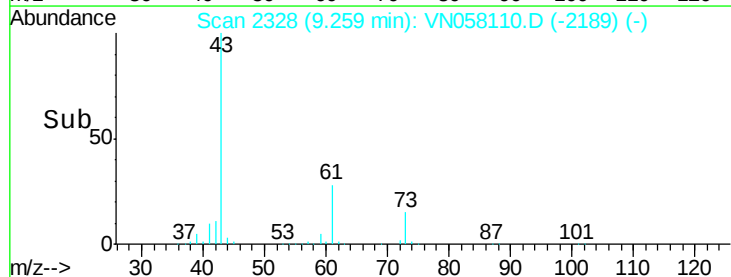
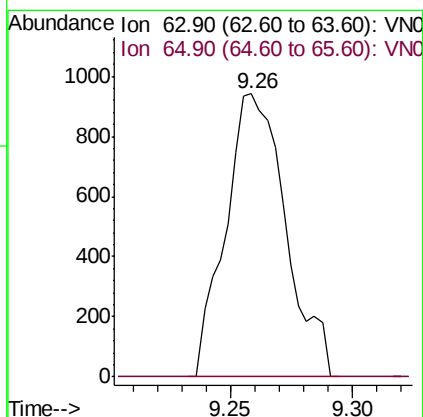
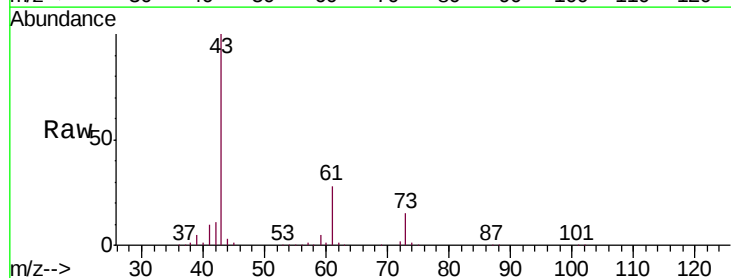
Instrument :
MSVOA_N
ClientSampled :
CSA-2-4

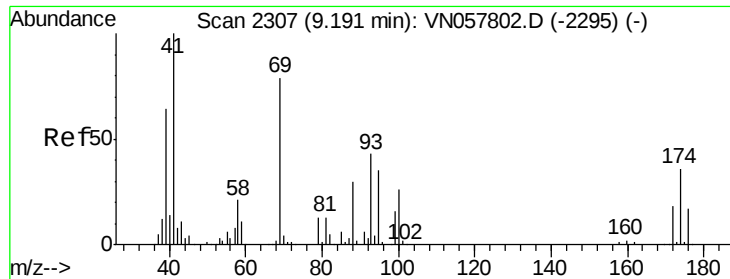
Tgt Ion: 43 Resp: 103647
Ion Ratio Lower Upper
43 100
61 17.3 20.1 30.1#
87 10.8 9.5 14.3



#45
1,2-Dichloropropane
Concen: 0.268 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.15 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 63 Resp: 1610
Ion Ratio Lower Upper
63 100
65 0.0 24.8 37.2#

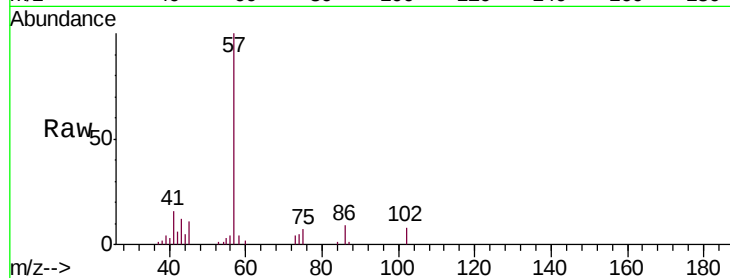




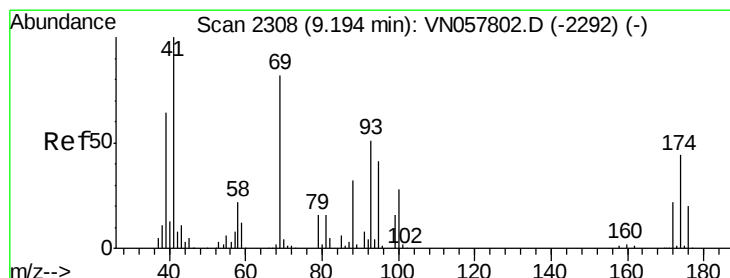
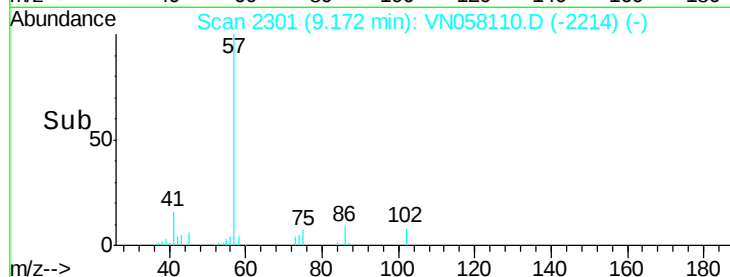
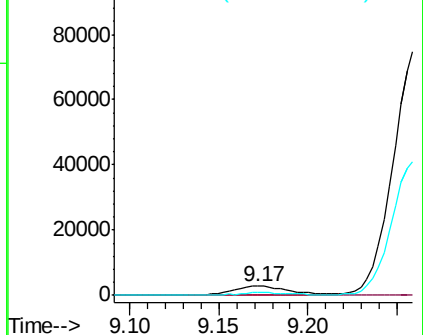
#48
Methyl methacrylate
Concen: 1.047 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_N
ClientSampleId :
CSA-2-4

Tgt Ion: 41 Resp: 6322
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

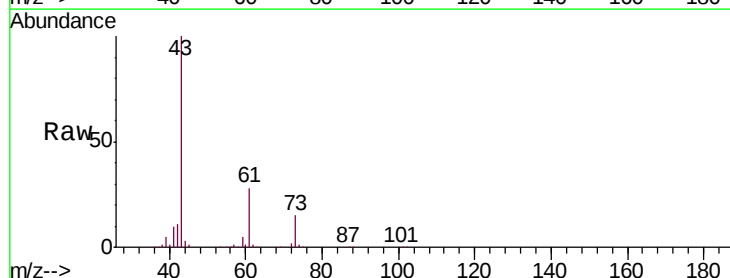


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

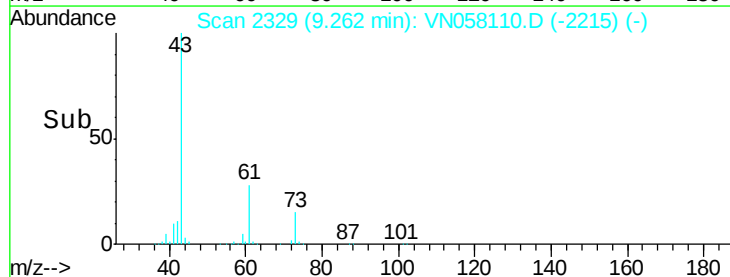
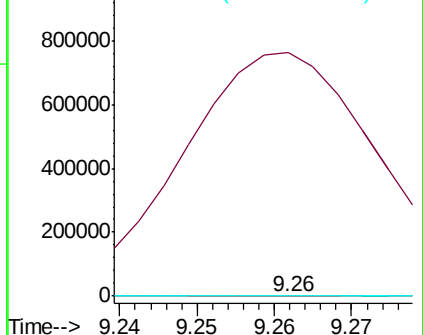


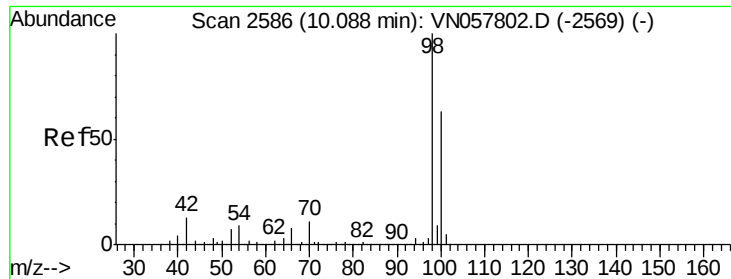
#49
1,4-Dioxane
Concen: 1.851 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.07 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 88 Resp: 189
Ion Ratio Lower Upper
88 100
43 749177.8 28.5 42.7#
58 3230.2 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC

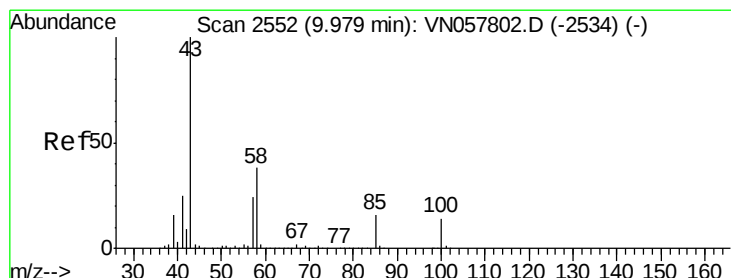
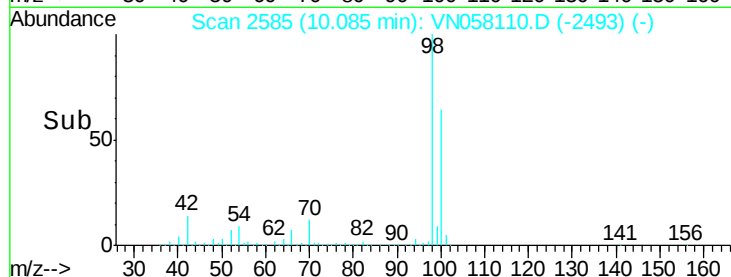
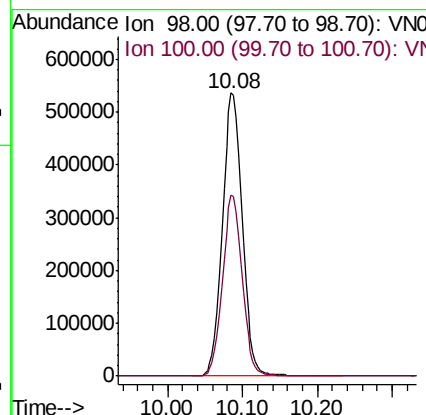
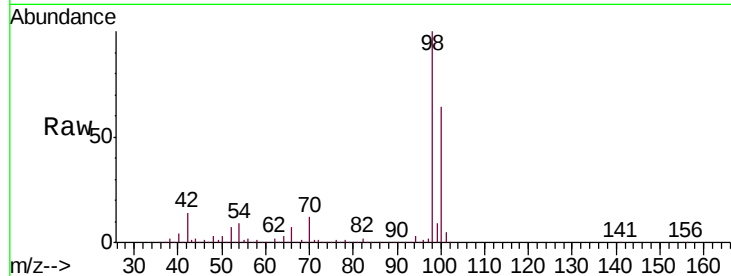




#50
Toluene-d8
Concen: 46.760 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

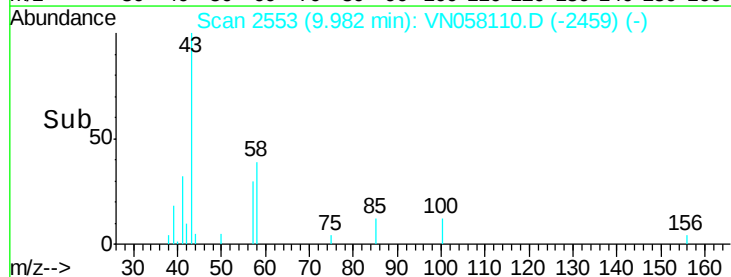
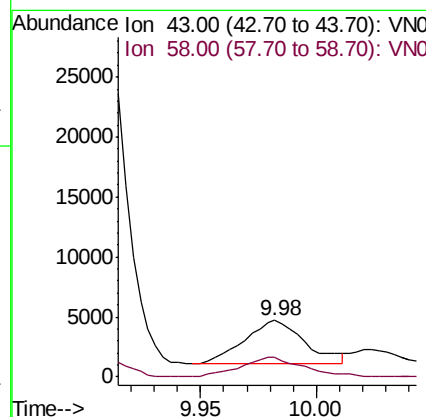
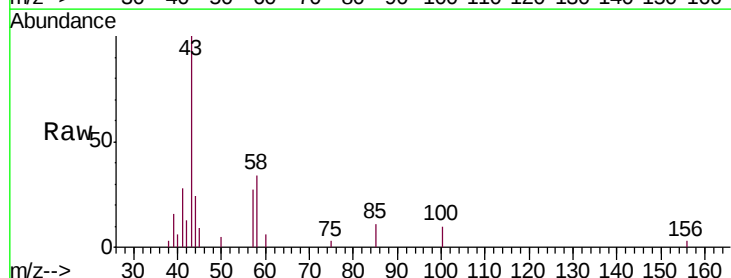
Instrument :
MSVOA_N
ClientSampled :
CSA-2-4

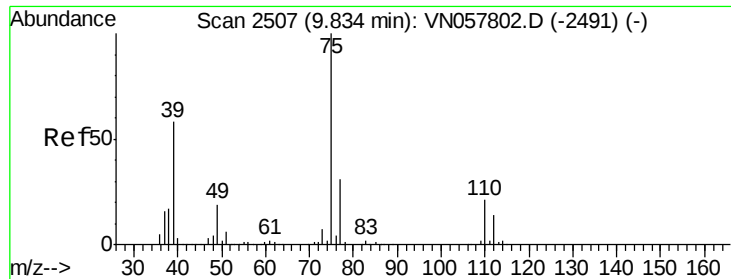
Tgt Ion: 98 Resp: 989656
Ion Ratio Lower Upper
98 100
100 63.3 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 0.934 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 43 Resp: 6578
Ion Ratio Lower Upper
43 100
58 46.8 29.8 44.6#





#54

cis-1,3-Dichloropropene

Concen: 4.630 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-4

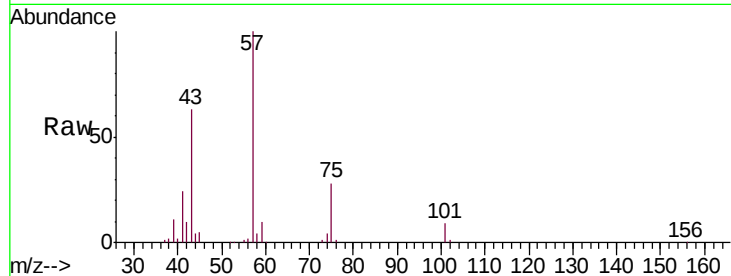
Tgt Ion: 75 Resp: 38977

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

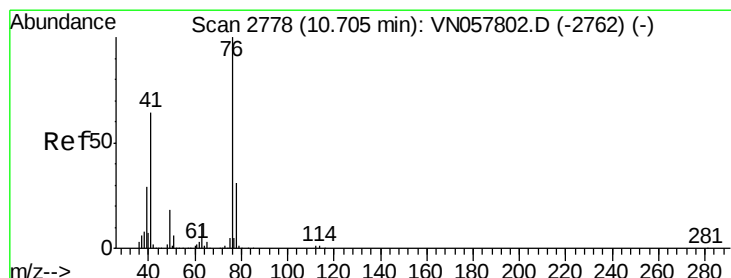
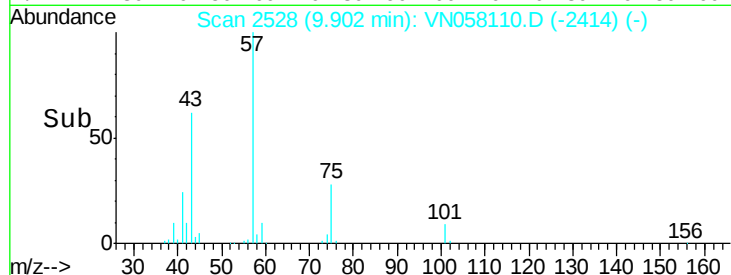
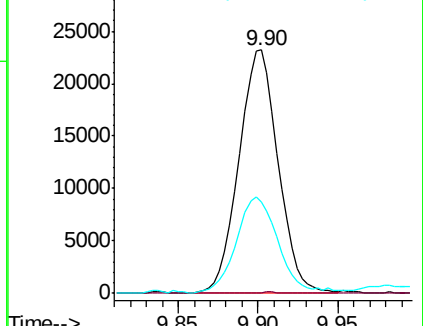
39 37.7 46.2 69.4#



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: 0.583 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058110.D

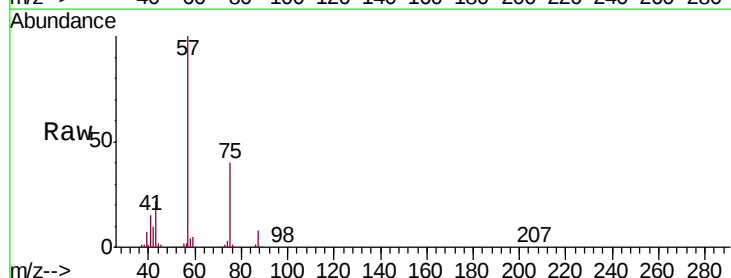
Acq: 16 Sep 2019 12:06

Tgt Ion: 76 Resp: 5529

Ion Ratio Lower Upper

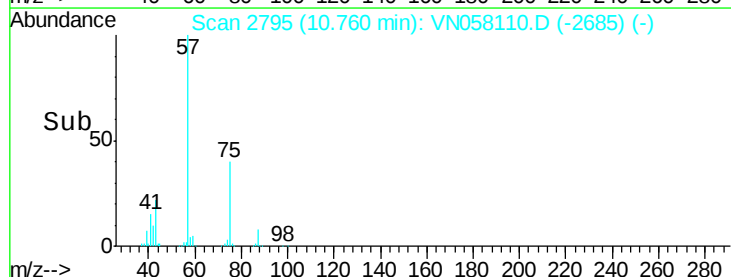
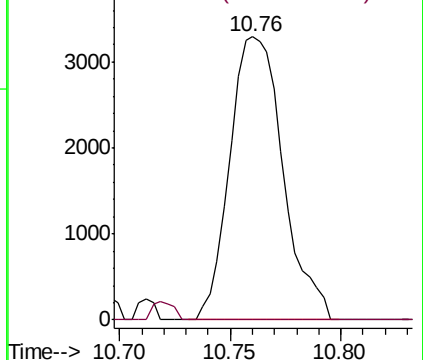
76 100

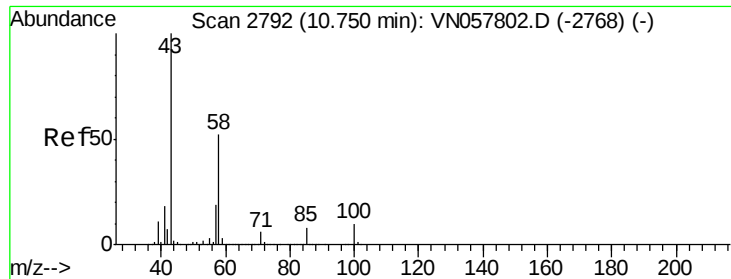
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

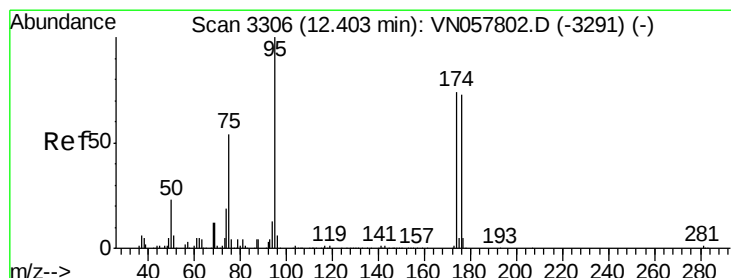
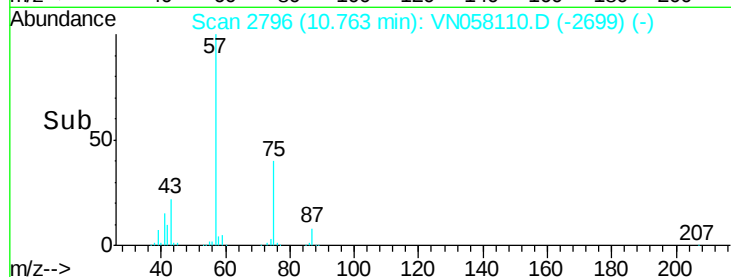
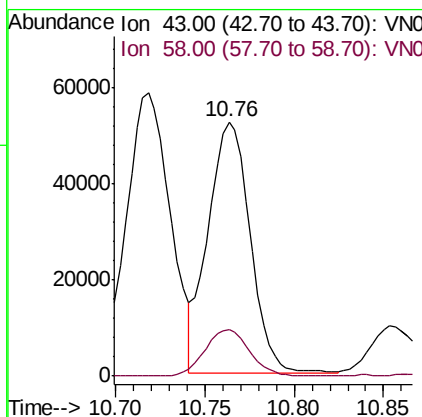
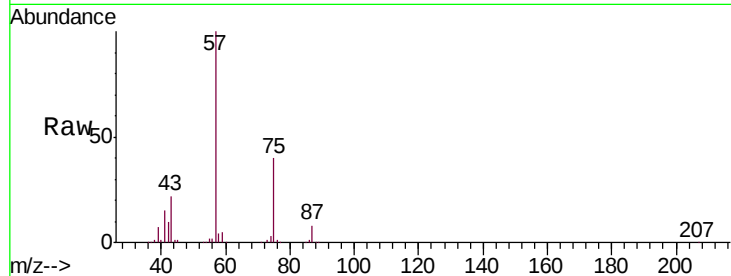




#59
2-Hexanone
Concen: 16.185 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

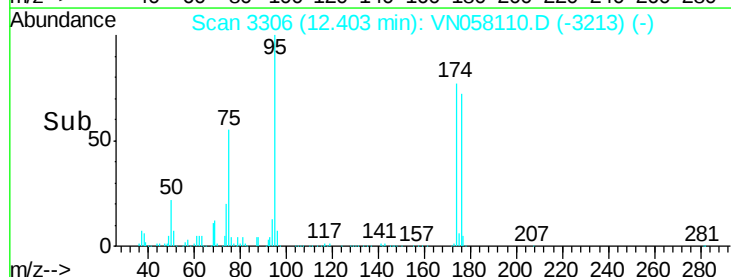
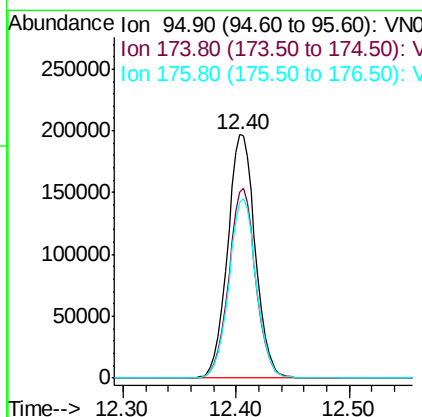
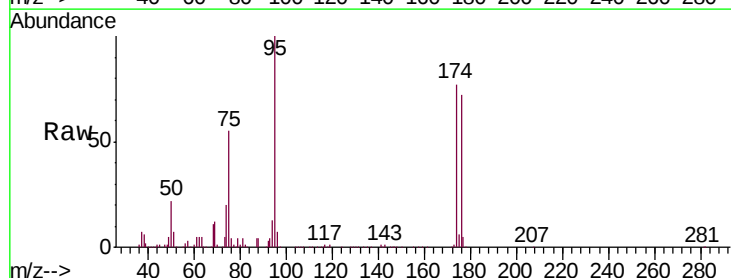
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-4

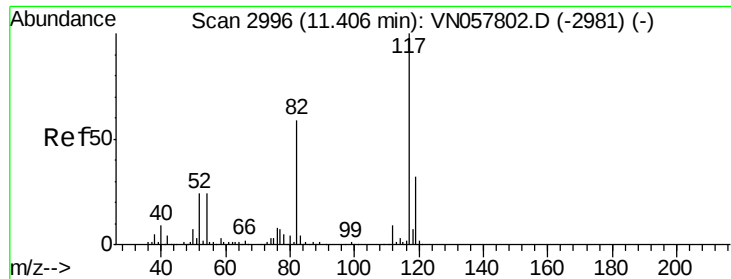
Tgt Ion: 43 Resp: 85435
Ion Ratio Lower Upper
43 100
58 19.6 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 41.377 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 95 Resp: 333728
Ion Ratio Lower Upper
95 100
174 75.9 0.0 150.2
176 72.7 0.0 146.0

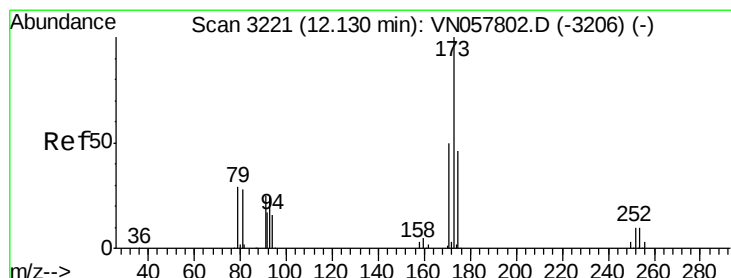
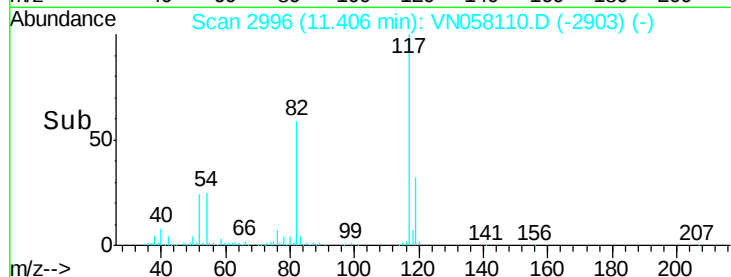
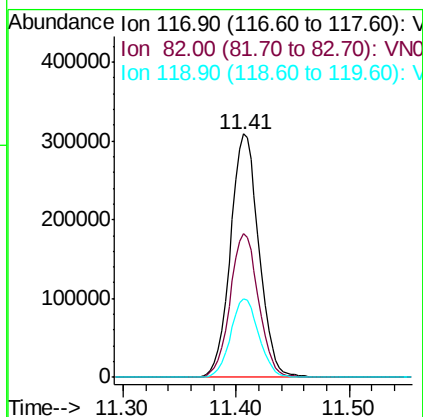
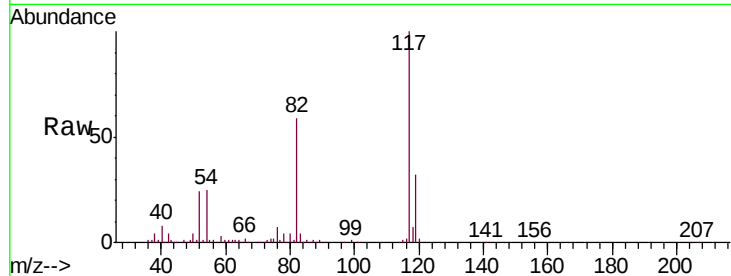




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

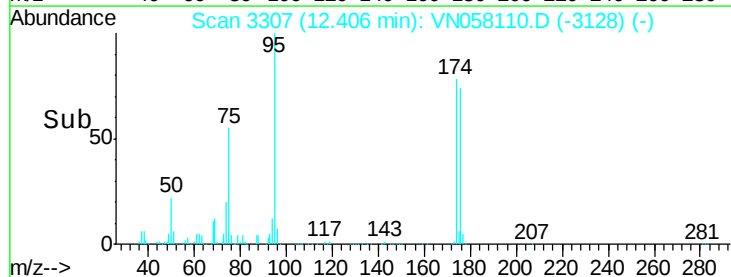
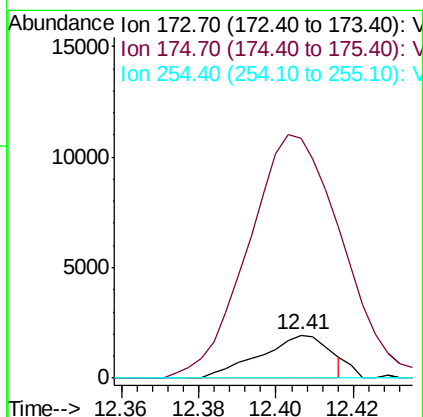
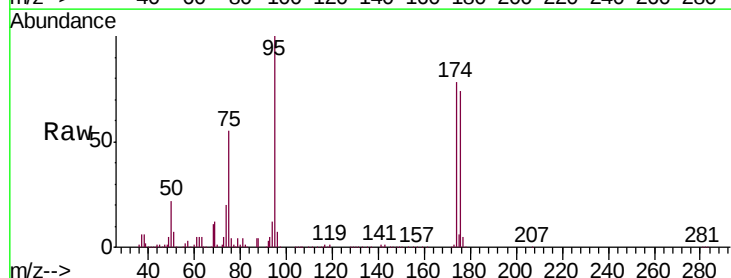
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-4

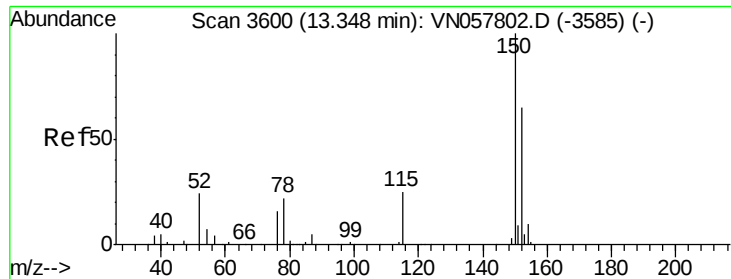
Tgt Ion:117 Resp: 539383
Ion Ratio Lower Upper
117 100
82 58.9 47.2 70.8
119 32.4 25.3 37.9



#71
Bromoform
Concen: 0.788 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058110.D
Acq: 16 Sep 2019 12:06

Tgt Ion:173 Resp: 2407
Ion Ratio Lower Upper
173 100
175 665.8 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-4

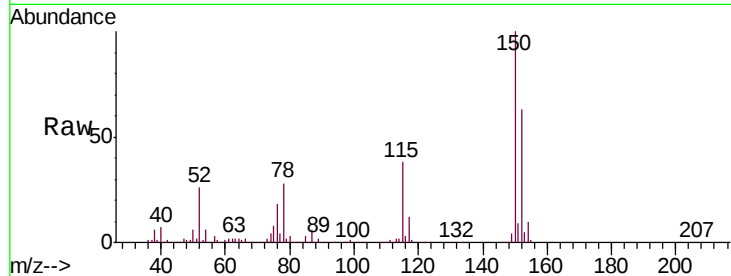
Tgt Ion:152 Resp: 282179

Ion Ratio Lower Upper

152 100

115 60.8 30.3 91.0

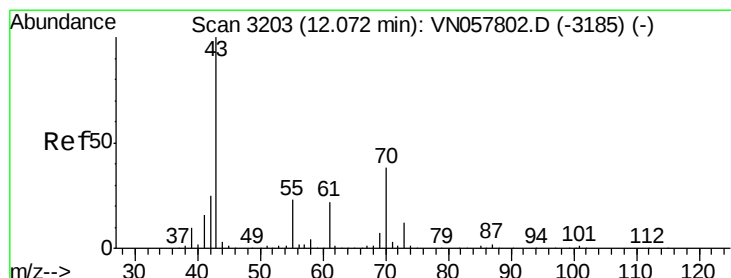
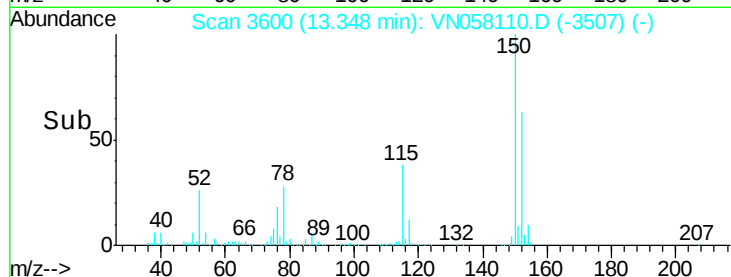
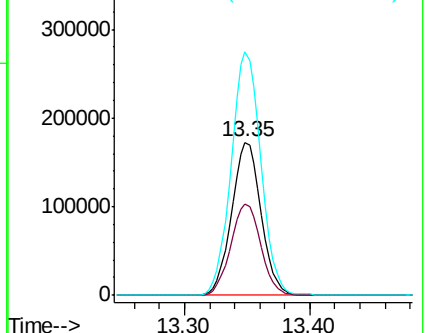
150 160.4 0.0 352.4



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: 0.324 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Tgt Ion: 43 Resp: 3083

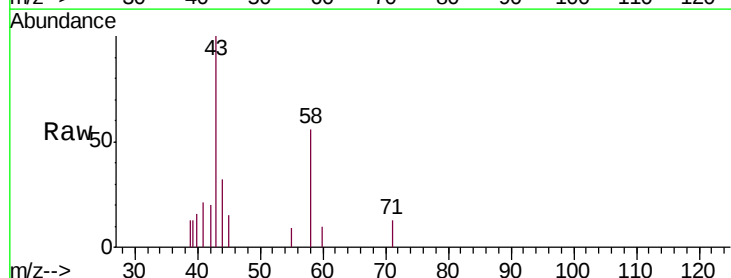
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 8.5 18.6 27.8#

61 0.0 17.4 26.2#

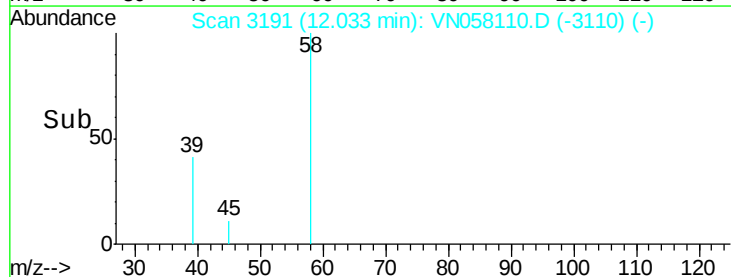
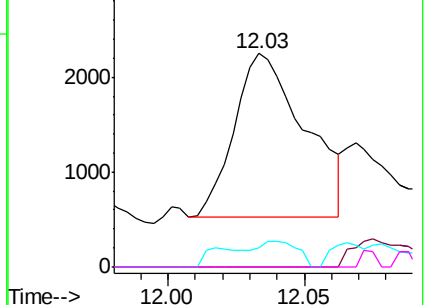


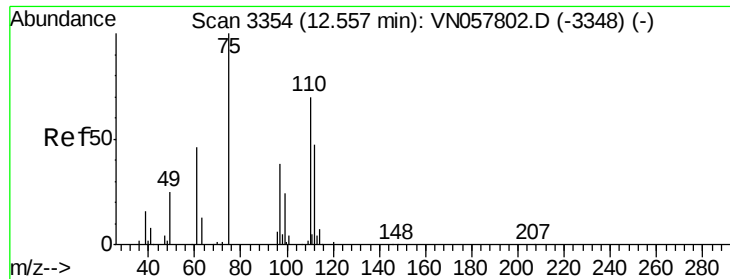
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 28.532 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

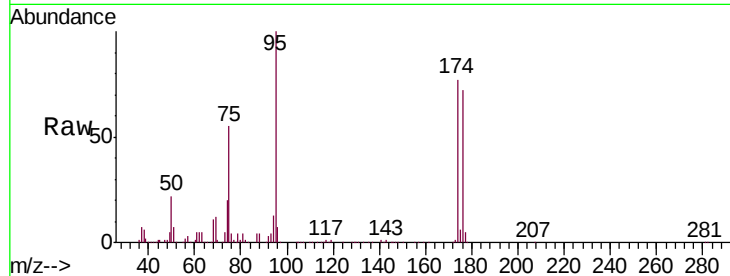
CSA-2-4

Tgt Ion: 75 Resp: 182129

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

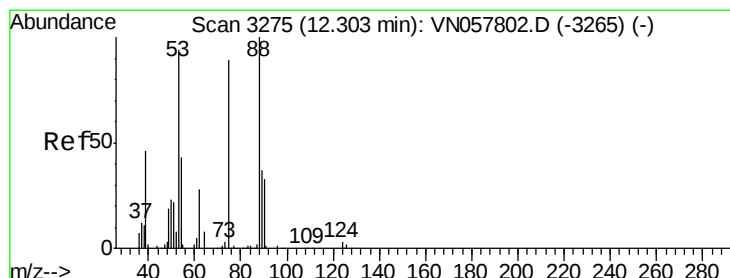
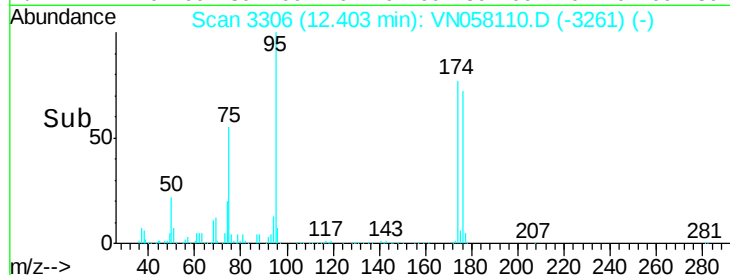
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.404 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058110.D

Acq: 16 Sep 2019 12:06

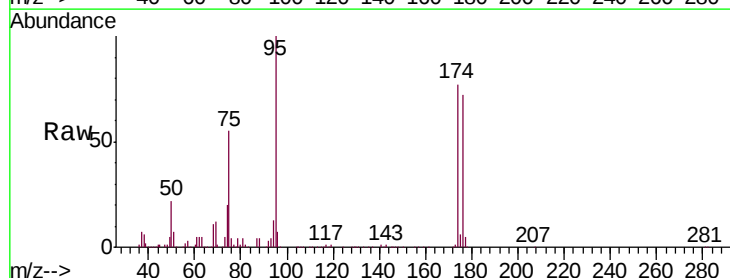
Tgt Ion: 75 Resp: 182129

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



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

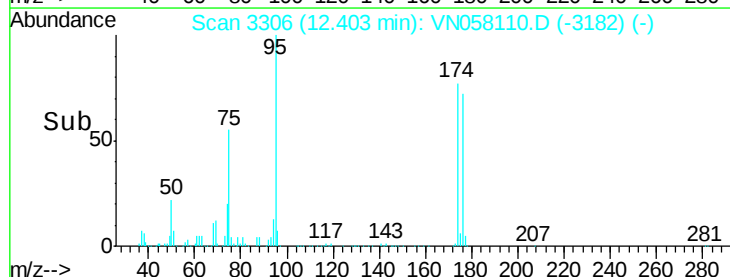
150000

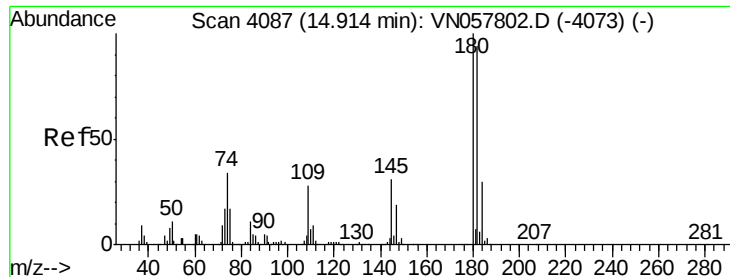
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50000

0

Time-->

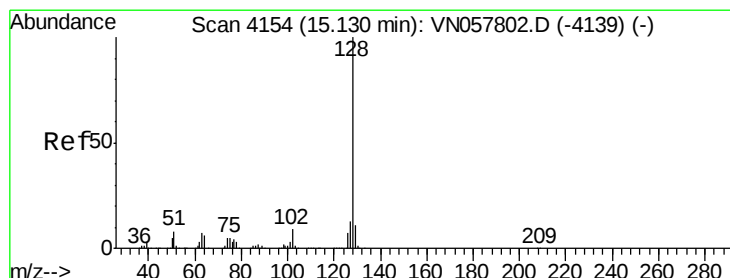
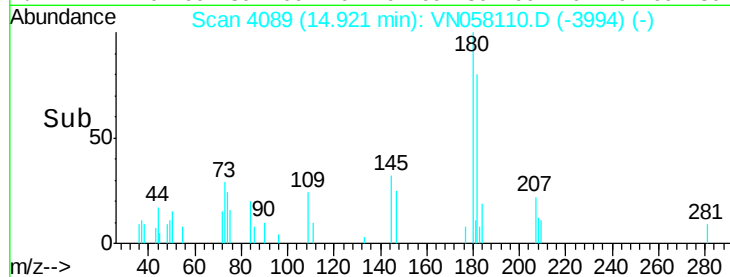
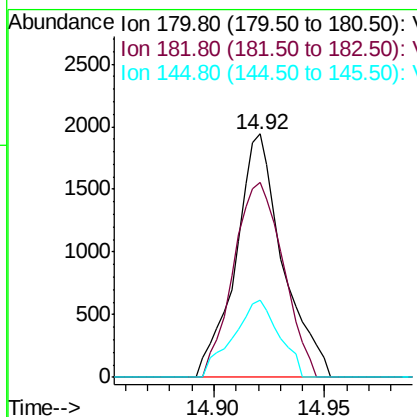
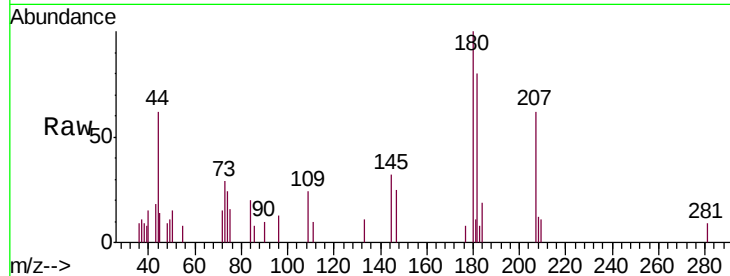




#93
 1,2,4-Trichlorobenzene
 Concen: 0.439 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN058110.D
 Acq: 16 Sep 2019 12:06

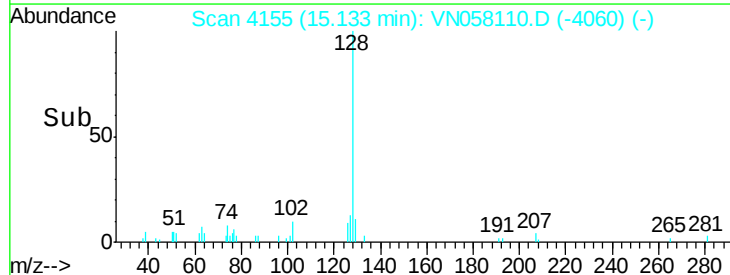
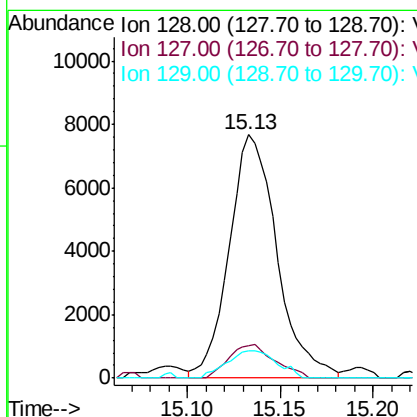
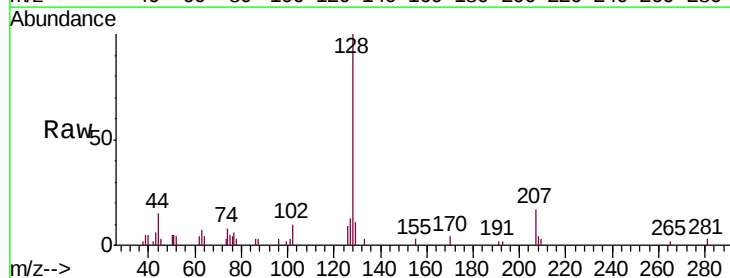
Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-4

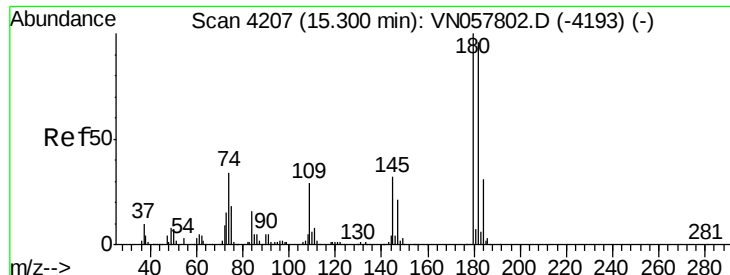
Tgt Ion:180 Resp: 2872
 Ion Ratio Lower Upper
 180 100
 182 84.7 46.9 140.8
 145 31.2 14.9 44.7



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN058110.D
 Acq: 16 Sep 2019 12:06

Tgt Ion:128 Resp: 13740
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.3 15.5
 129 11.6 8.6 12.8

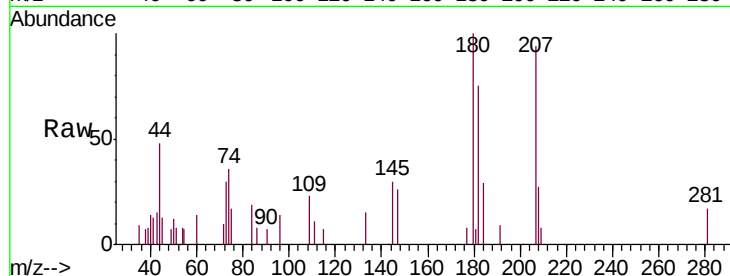




#96
 1,2,3-Trichlorobenzene
 Concen: 1.639 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN058110.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-4

Tgt Ion	Ratio	Lower	Upper
180	100		
182	80.0	48.3	144.8
145	34.0	16.3	48.8



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

