

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058123.D
 Acq On : 16 Sep 2019 16:51
 Operator : JC/SP
 Sample : K4877-15
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-3

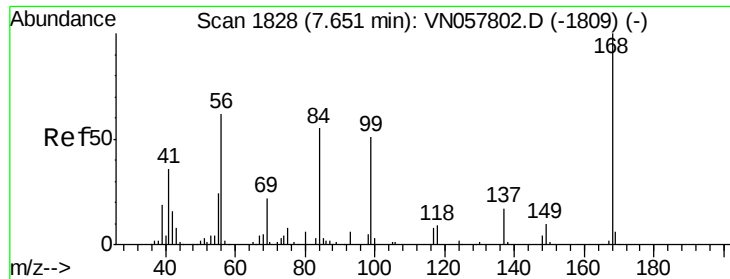
Quant Time: Sep 17 03:53:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	340310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	577673	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	525266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	271909	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	361160	52.40	ug/l	0.00
Spiked Amount			Recovery	=	104.80%	
35) Dibromofluoromethane	7.58	113	244041	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
50) Toluene-d8	10.09	98	946964	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	
62) 4-Bromofluorobenzene	12.41	95	312410	39.60	ug/l	0.00
Spiked Amount			Recovery	=	79.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	60	Below Cal	#	2
11) Tert butyl alcohol	4.72	59	210	0.252	ug/l #	72
16) Acetone	3.80	43	14321	6.338	ug/l	96
18) Methyl Acetate	4.31	43	2280	0.378	ug/l #	2
20) Methylene Chloride	4.53	84	6968	0.399	ug/l	92
25) 2-Butanone	6.83	43	2141	0.655	ug/l	96
29) Tetrahydrofuran	7.20	42	786	0.390	ug/l #	51
31) Cyclohexane	7.65	56	8372	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	29491	4.402	ug/l #	45
38) Carbon Tetrachloride	7.66	117	35074	5.734	ug/l #	16
43) Isopropyl Acetate	8.16	43	115566	9.928	ug/l #	81
48) Methyl methacrylate	9.18	41	5928	1.004	ug/l #	13
49) 1,4-Dioxane	9.26	88	31	0.310	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	4493	0.652	ug/l #	75
54) cis-1,3-Dichloropropene	9.90	75	33576	4.078	ug/l #	67
56) Ethyl methacrylate	10.54	69	1916	0.236	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4444	0.479	ug/l #	43
59) 2-Hexanone	10.76	43	63457	12.291	ug/l #	55
71) Bromoform	12.40	173	1237	0.416	ug/l #	1
74) N-amyl acetate	12.04	43	3016	0.328	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	172150	27.987	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	172150	98.487	ug/l #	6
95) Naphthalene	15.14	128	752	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058123.D

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Instrument :

MSVOA_N

ClientSampleId :

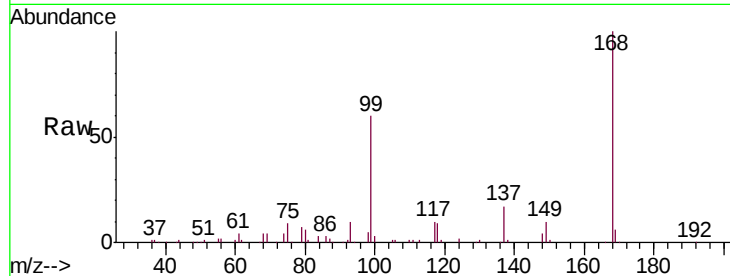
CSA-2-3

Tgt Ion:168 Resp: 340310

Ion Ratio Lower Upper

168 100

99 59.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

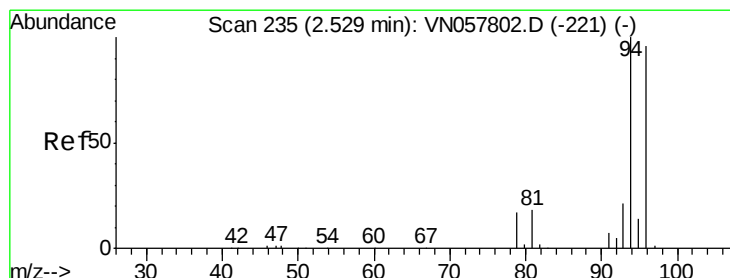
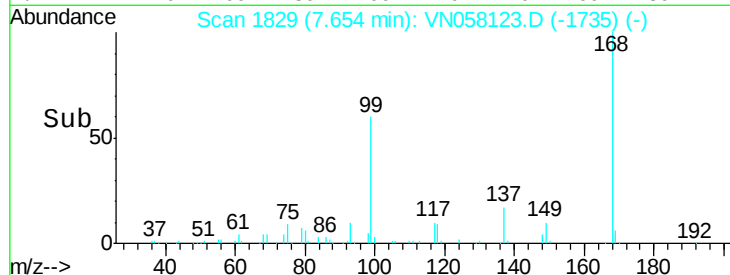
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN058123.D

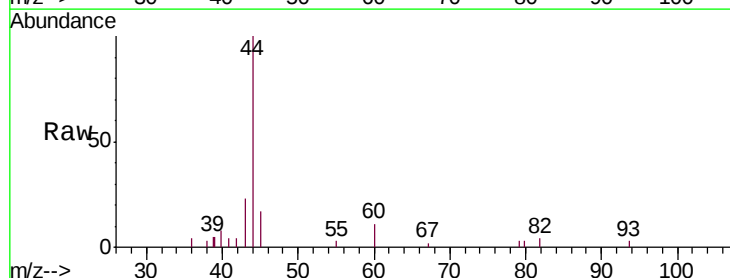
Acq: 16 Sep 2019 16:51

Tgt Ion: 94 Resp: 60

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

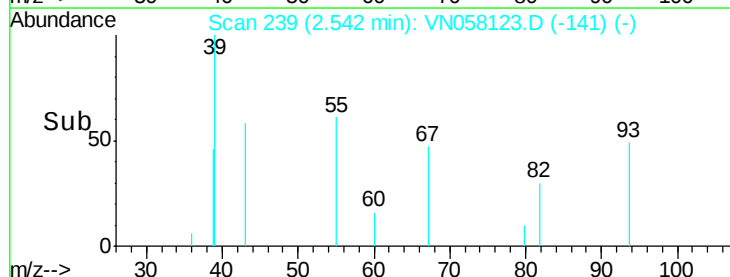
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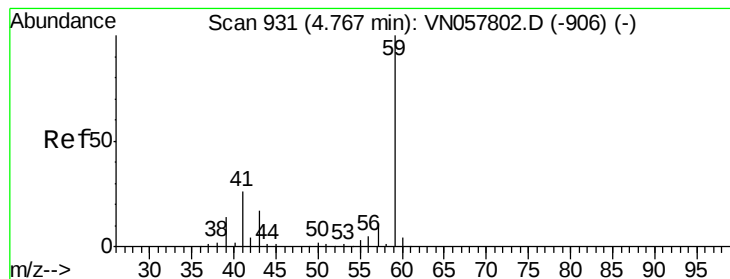
100

50

0

Time-->



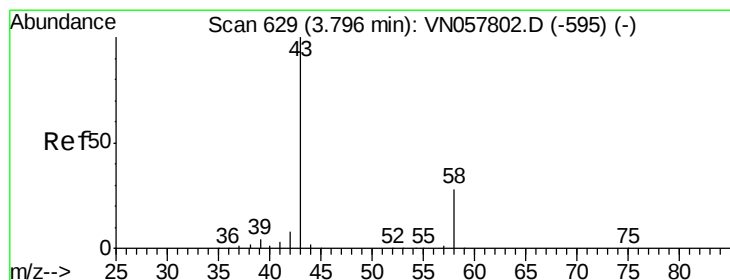
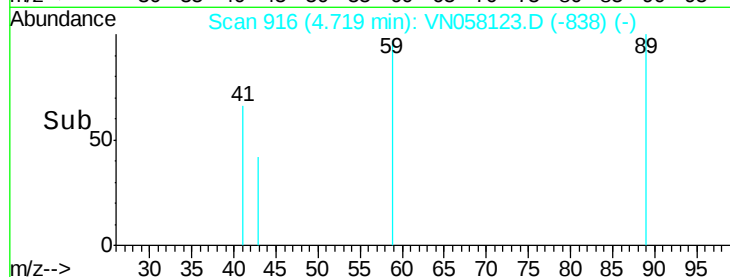
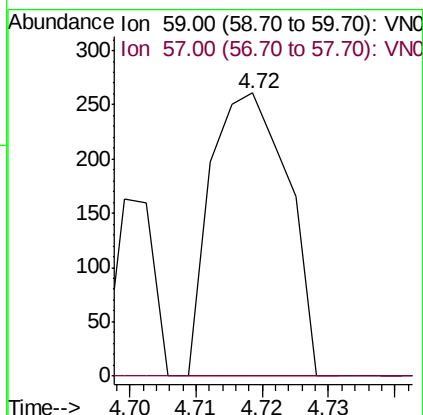
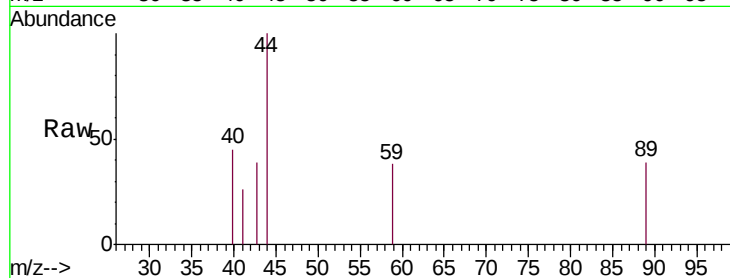


#11

Tert butyl alcohol
 Concen: 0.252 ug/l
 RT: 4.72 min Scan# 916
 Delta R.T. -0.05 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-3

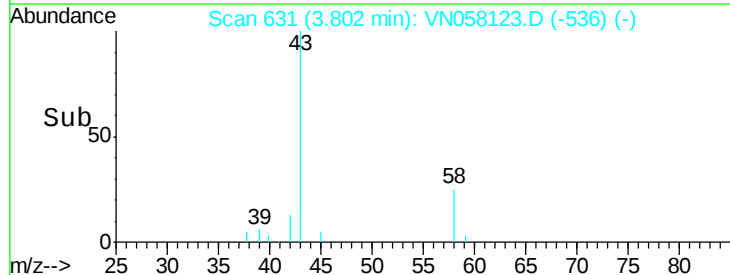
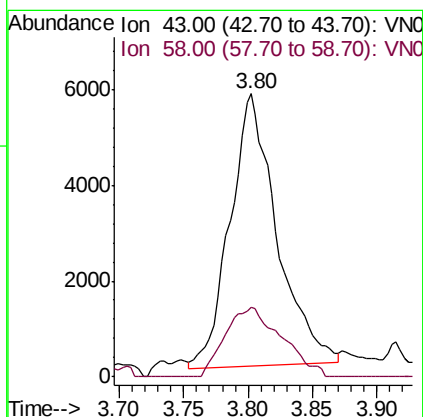
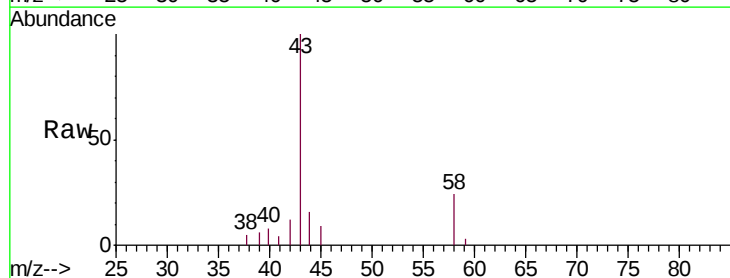
Tgt Ion: 59 Resp: 210
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

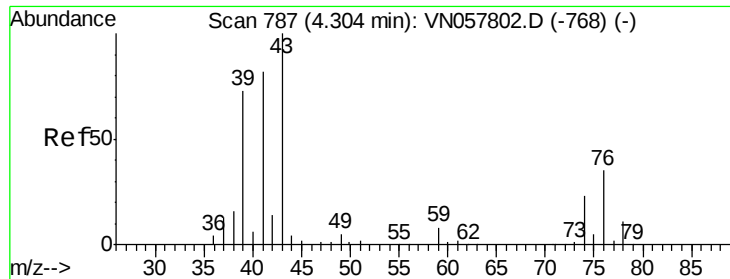


#16

Acetone
 Concen: 6.338 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

Tgt Ion: 43 Resp: 14321
 Ion Ratio Lower Upper
 43 100
 58 25.8 22.2 33.2

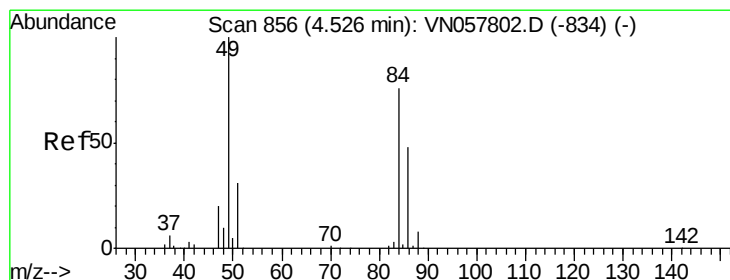
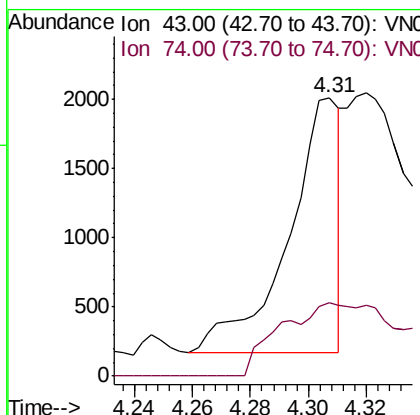
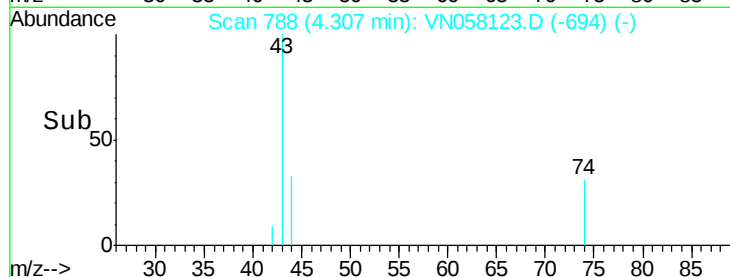
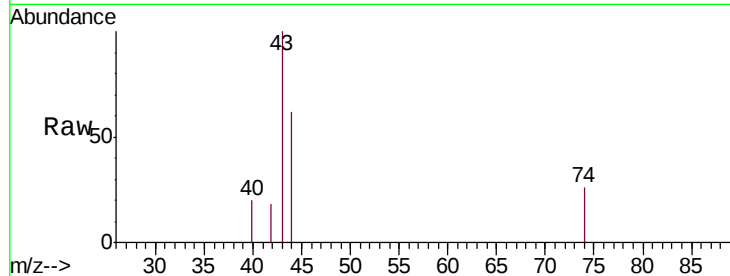




#18
Methyl Acetate
Concen: 0.378 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

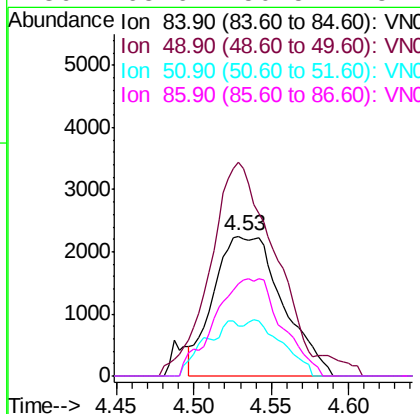
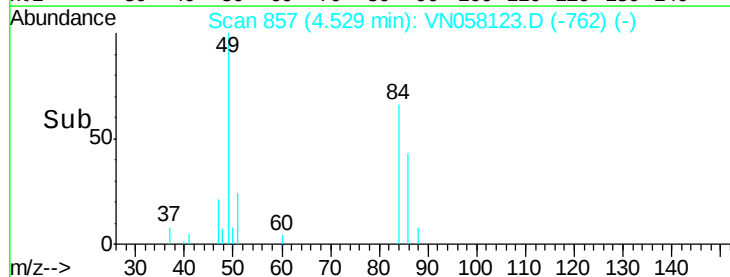
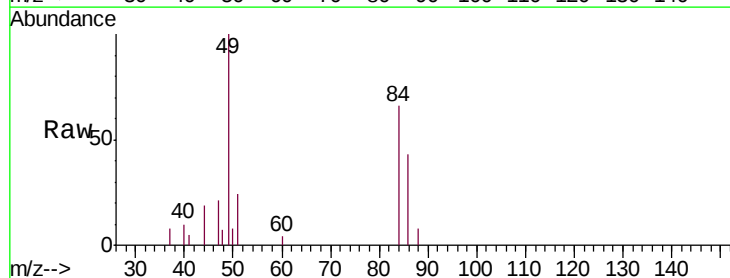
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-3

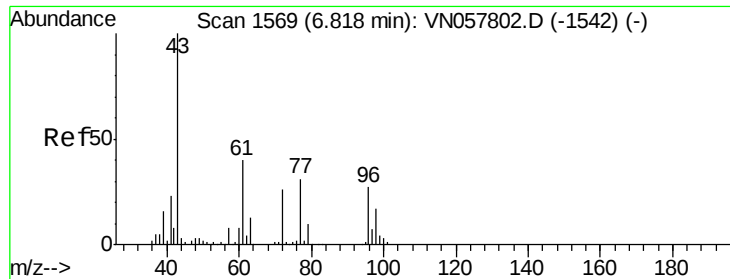
Tgt Ion: 43 Resp: 2280
Ion Ratio Lower Upper
43 100
74 69.5 17.9 26.9#



#20
Methylene Chloride
Concen: 0.399 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Tgt Ion: 84 Resp: 6968
Ion Ratio Lower Upper
84 100
49 141.8 104.8 157.2
51 35.9 33.0 49.4
86 65.6 50.5 75.7

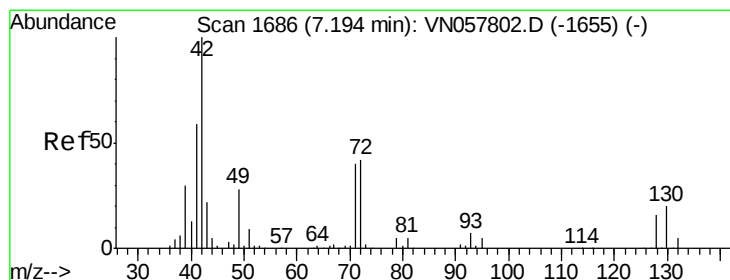
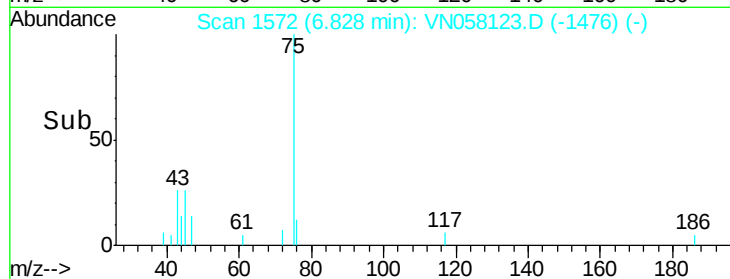
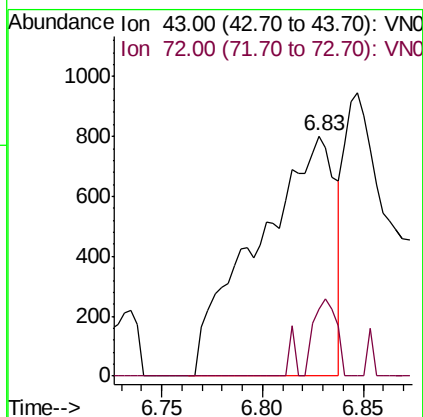
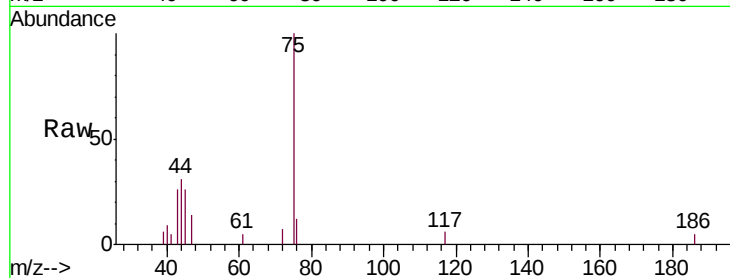




#25
2-Butanone
Concen: 0.655 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

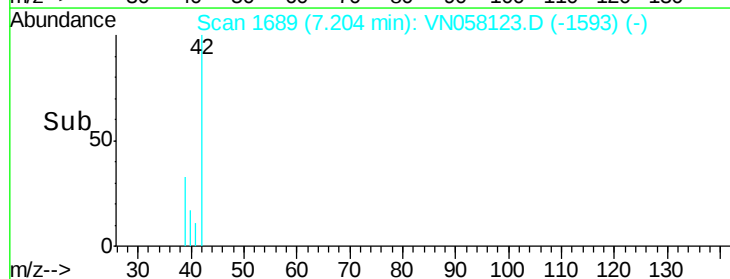
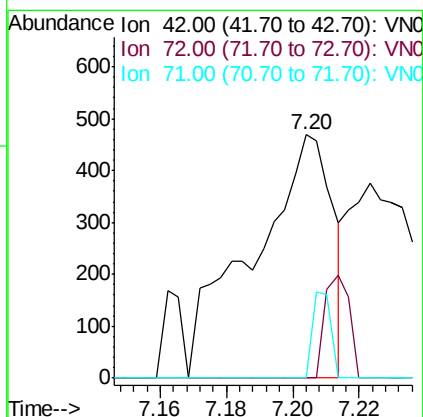
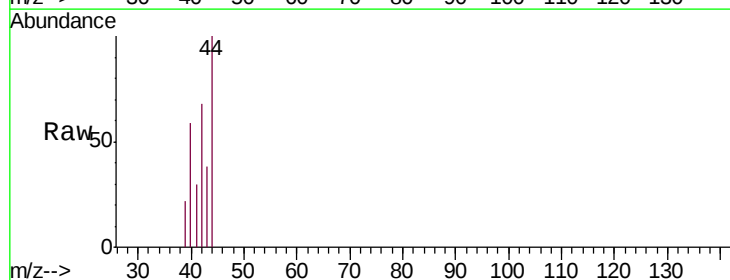
Instrument :
MSVOA_N
ClientSampled :
CSA-2-3

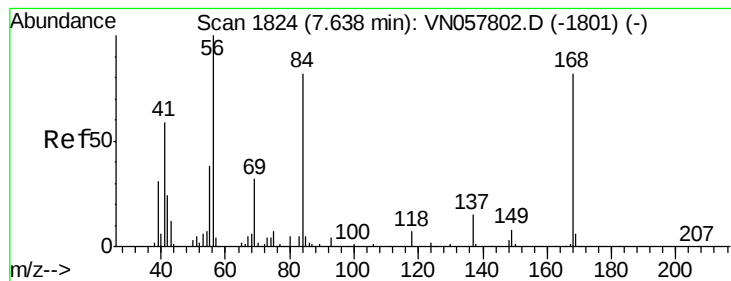
Tgt Ion: 43 Resp: 2141
Ion Ratio Lower Upper
43 100
72 27.9 20.6 30.8



#29
Tetrahydrofuran
Concen: 0.390 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Tgt Ion: 42 Resp: 786
Ion Ratio Lower Upper
42 100
72 13.0 33.7 50.5#
71 8.0 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

Instrument :

MSVOA_N

ClientSampled :

CSA-2-3

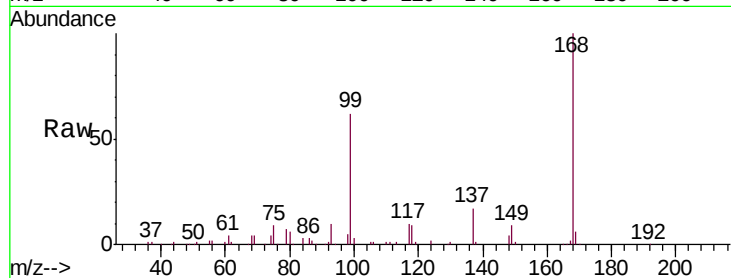
Tgt Ion: 56 Resp: 8372

Ion Ratio Lower Upper

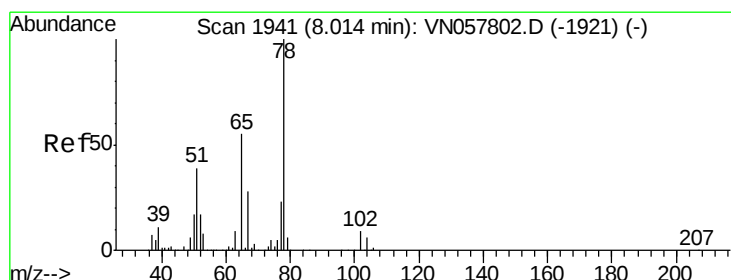
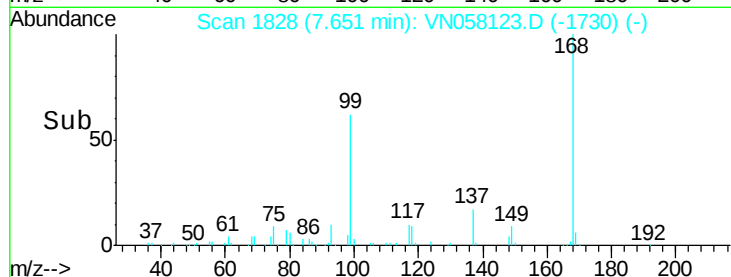
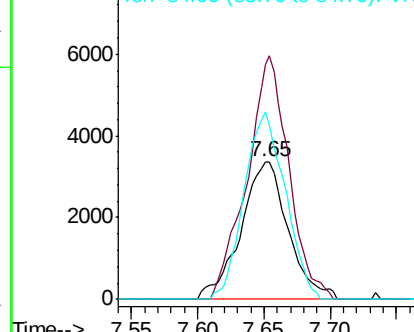
56 100

69 170.6 25.9 38.9#

84 136.4 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 52.397 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058123.D

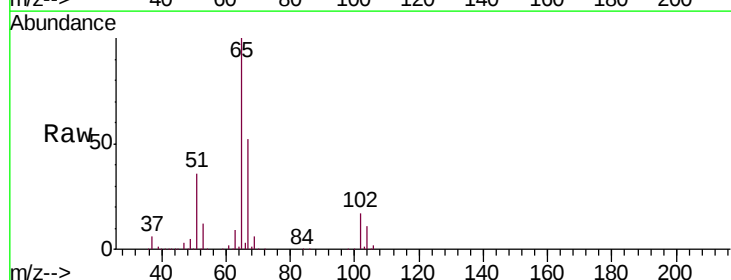
Acq: 16 Sep 2019 16:51

Tgt Ion: 65 Resp: 361160

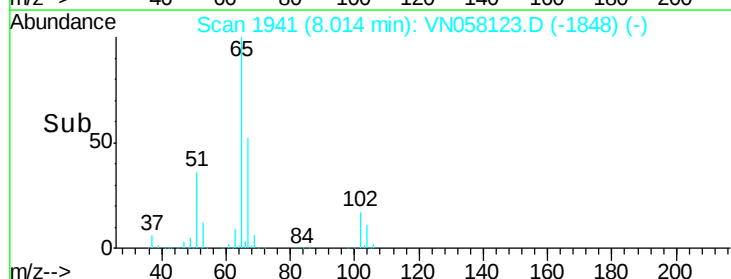
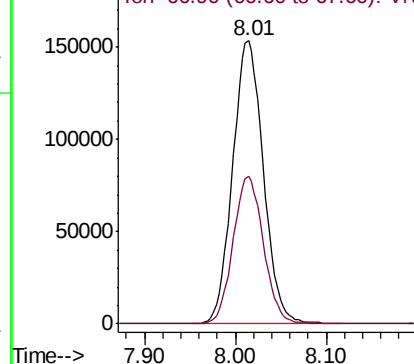
Ion Ratio Lower Upper

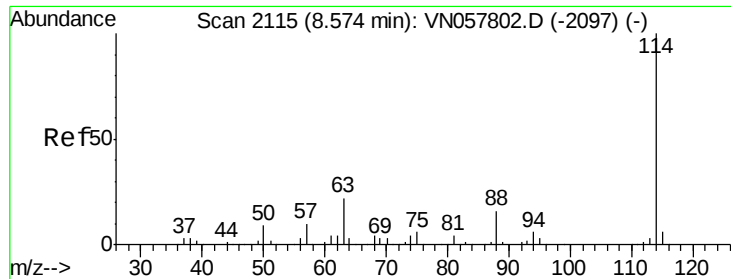
65 100

67 51.3 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

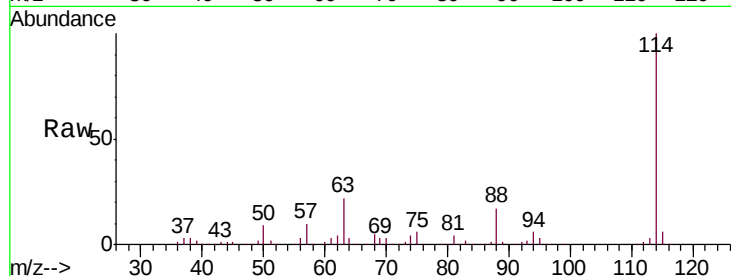




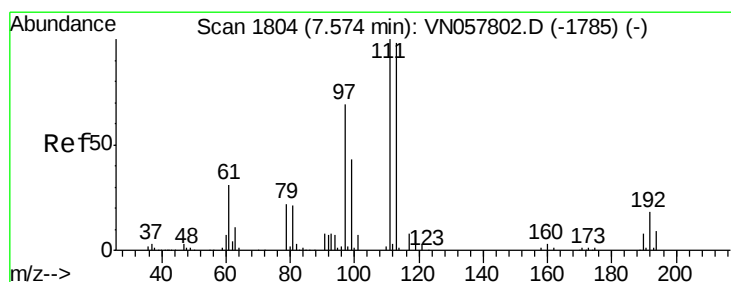
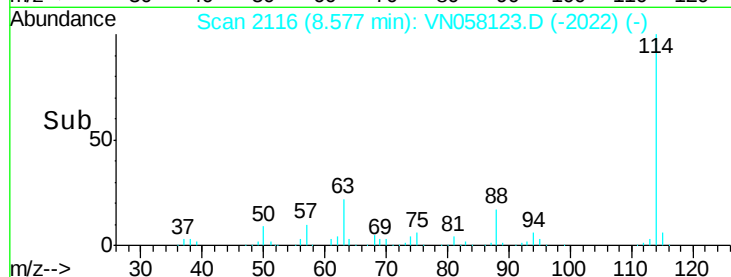
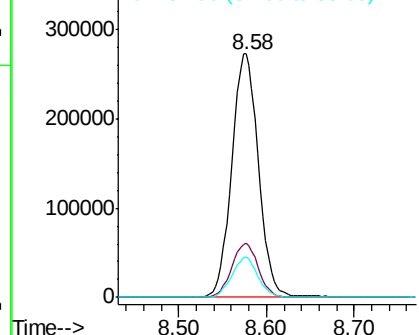
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Instrument :
MSVOA_N
ClientSampleId :
CSA-2-3

Tgt Ion:114 Resp: 577673
Ion Ratio Lower Upper
114 100
63 22.0 0.0 44.0
88 16.6 0.0 31.4

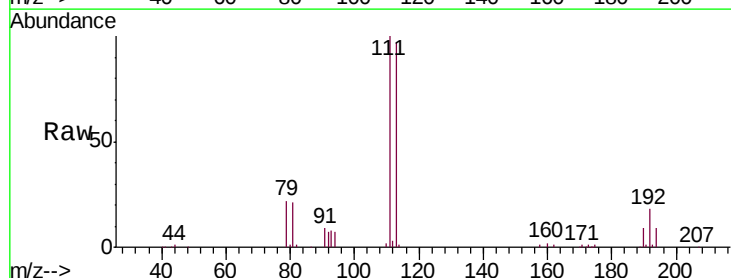


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

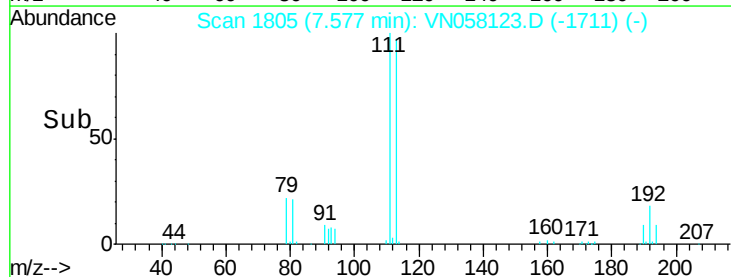
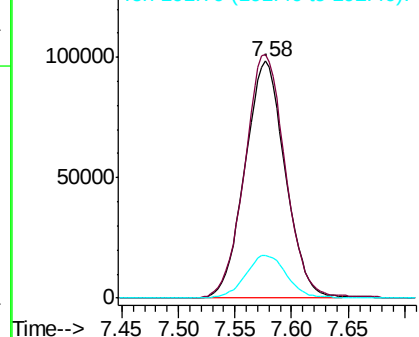


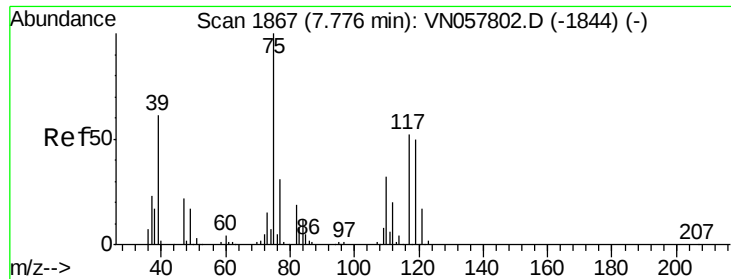
#35
Dibromofluoromethane
Concen: 45.772 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Tgt Ion:113 Resp: 244041
Ion Ratio Lower Upper
113 100
111 104.2 81.3 121.9
192 18.3 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

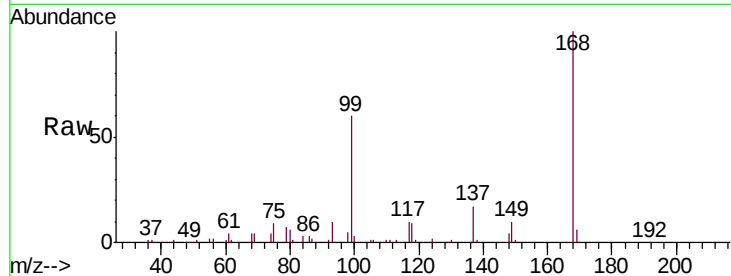




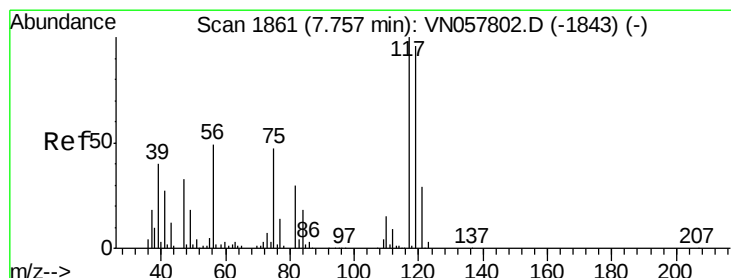
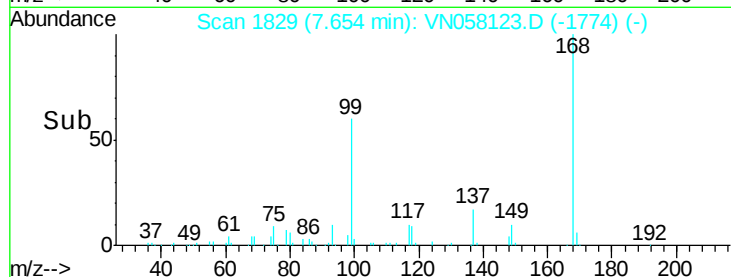
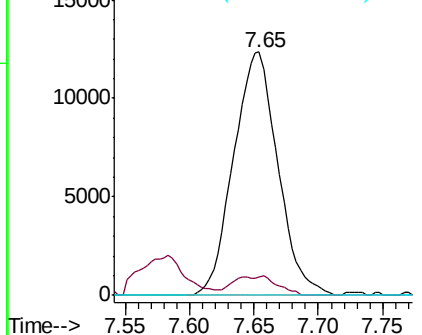
#36
 1,1-Dichloropropene
 Concen: 4.402 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-3

Tgt Ion: 75 Resp: 29491
 Ion Ratio Lower Upper
 75 100
 110 2.7 16.3 48.9#
 77 0.0 25.0 37.4#

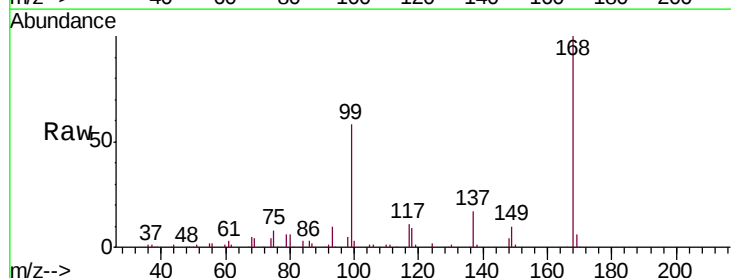


Abundance Ion 74.90 (74.60 to 75.60): VN058123.D (-1774) (-)
 Ion 109.90 (109.60 to 110.60): VN058123.D (-1774) (-)
 Ion 76.90 (76.60 to 77.60): VN058123.D (-1774) (-)

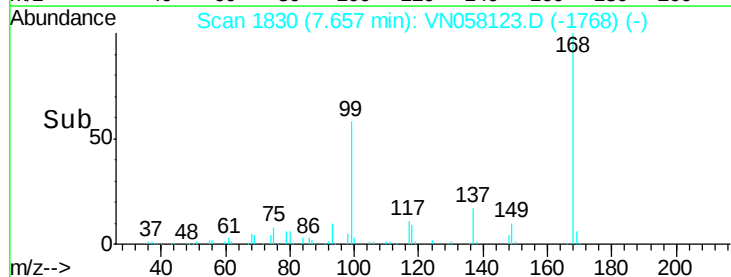
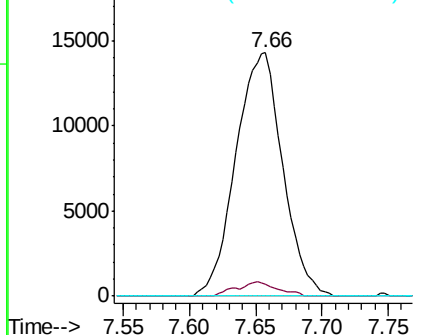


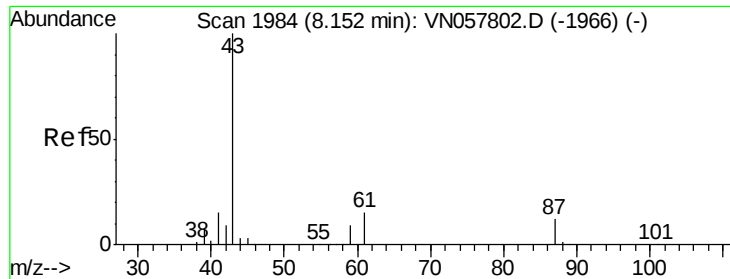
#38
 Carbon Tetrachloride
 Concen: 5.734 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.10 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

Tgt Ion: 117 Resp: 35074
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.9 115.3#
 121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN058123.D (-1768) (-)
 Ion 118.80 (118.50 to 119.50): VN058123.D (-1768) (-)
 Ion 120.80 (120.50 to 121.50): VN058123.D (-1768) (-)





#43

Isopropyl Acetate

Concen: 9.928 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

Instrument :

MSVOA_N

ClientSampled :

CSA-2-3

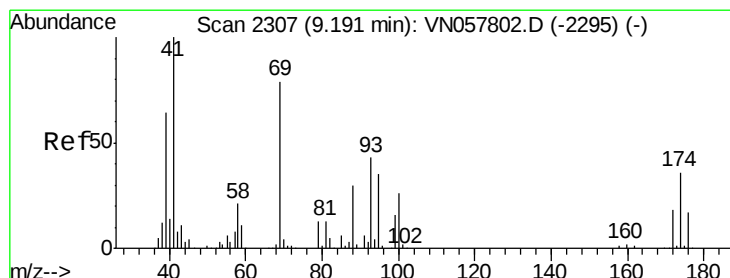
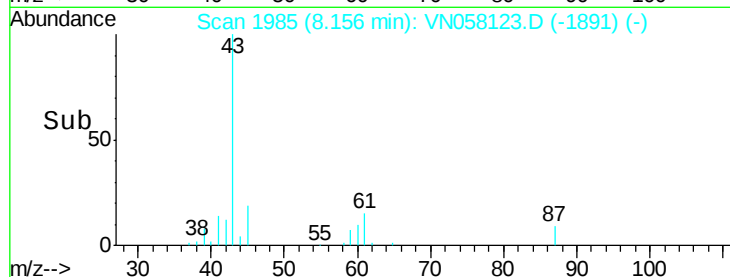
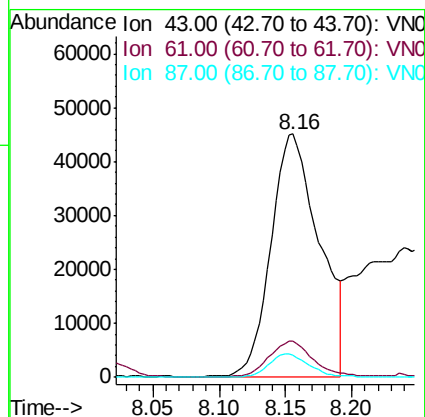
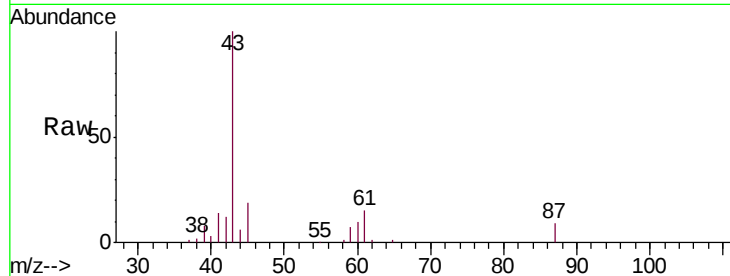
Tgt Ion: 43 Resp: 115566

Ion Ratio Lower Upper

43 100

61 13.6 20.1 30.1#

87 8.1 9.5 14.3#



#48

Methyl methacrylate

Concen: 1.004 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

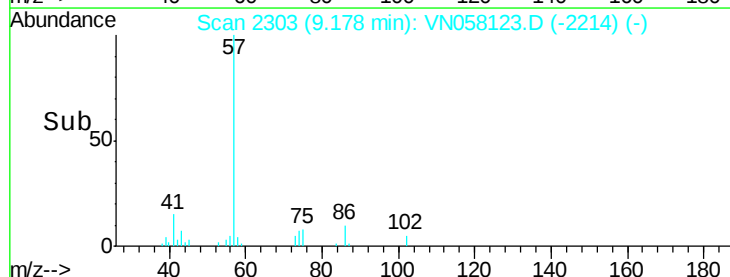
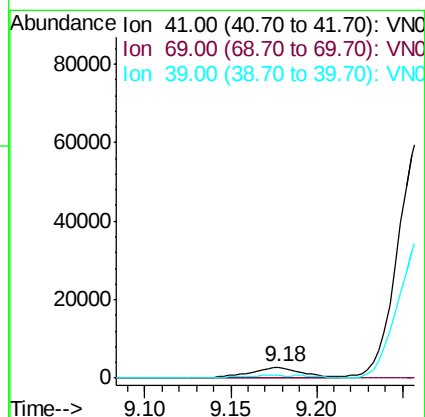
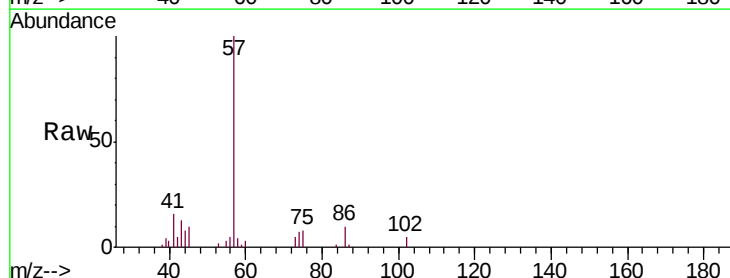
Tgt Ion: 41 Resp: 5928

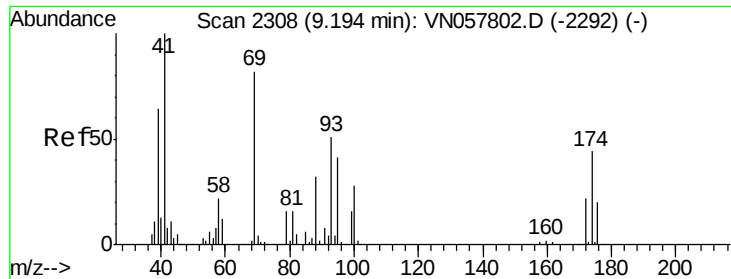
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 0.310 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-3

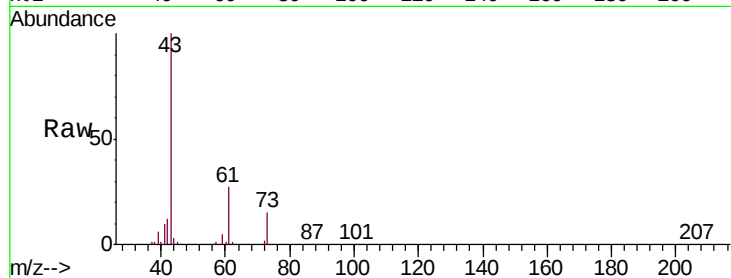
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 3770435.5 28.5 42.7#

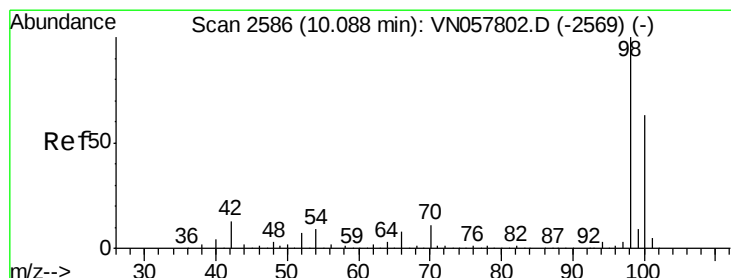
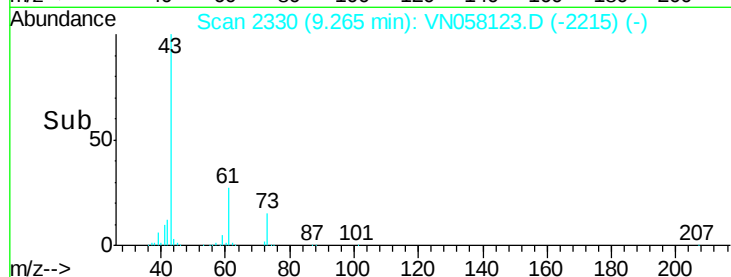
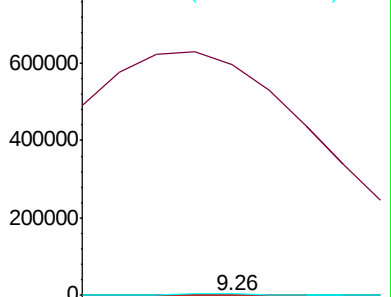
58 18464.5 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 45.746 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058123.D

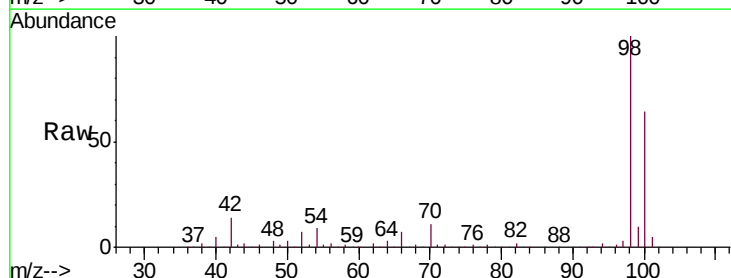
Acq: 16 Sep 2019 16:51

Tgt Ion: 98 Resp: 946964

Ion Ratio Lower Upper

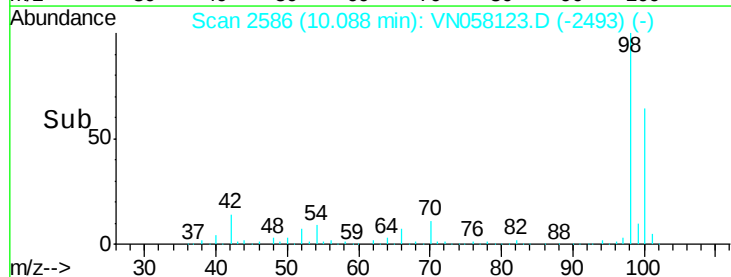
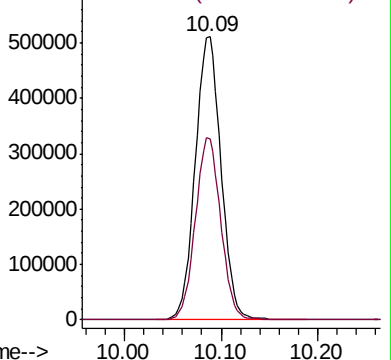
98 100

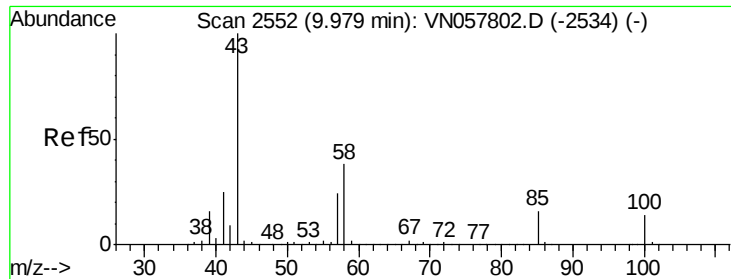
100 63.4 50.3 75.5



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: 0.652 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

Instrument :

MSVOA_N

ClientSampled :

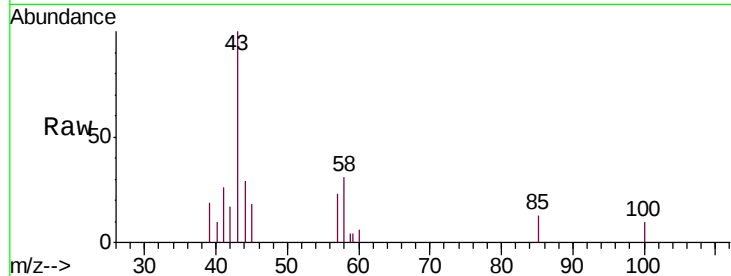
CSA-2-3

Tgt Ion: 43 Resp: 4493

Ion Ratio Lower Upper

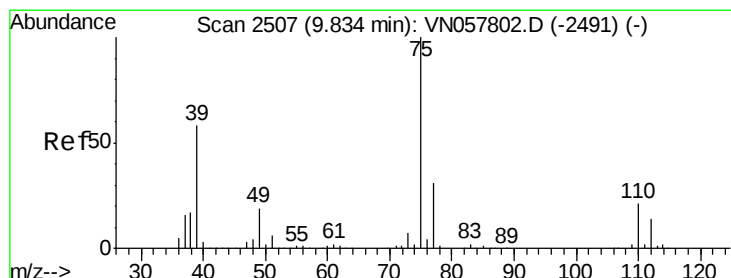
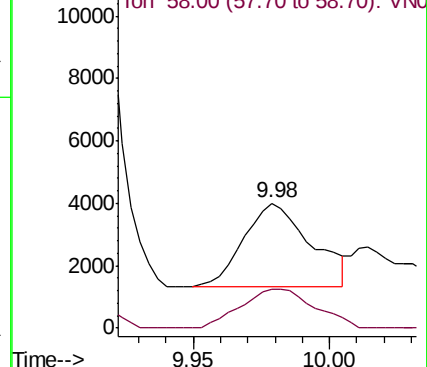
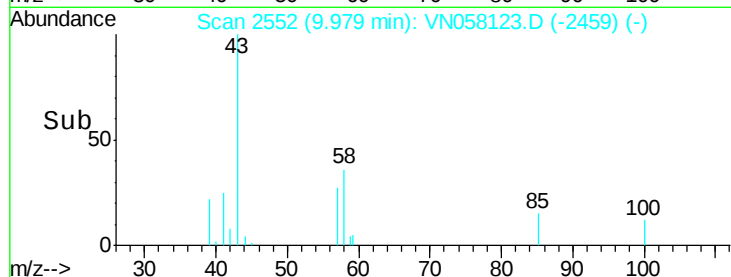
43 100

58 52.3 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN058123.D (-2459) (-)

Ion 58.00 (57.70 to 58.70): VN058123.D (-2459) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.078 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

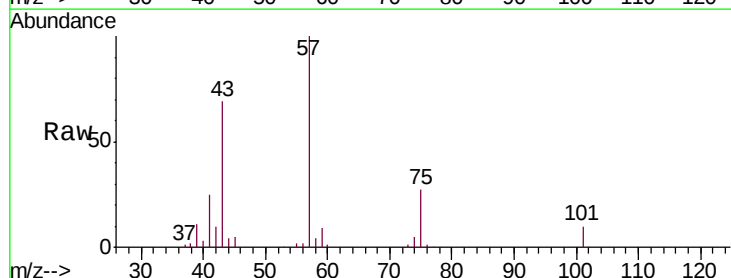
Tgt Ion: 75 Resp: 33576

Ion Ratio Lower Upper

75 100

77 1.2 24.8 37.2#

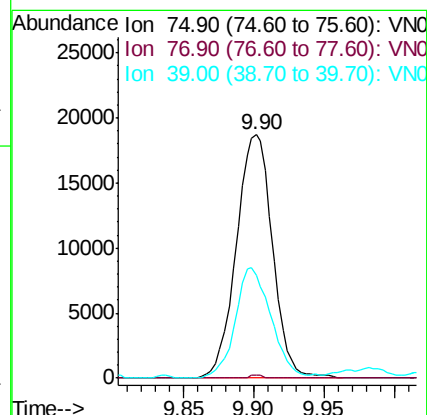
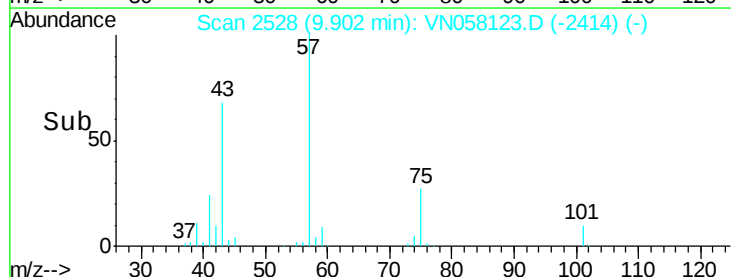
39 42.1 46.2 69.4#

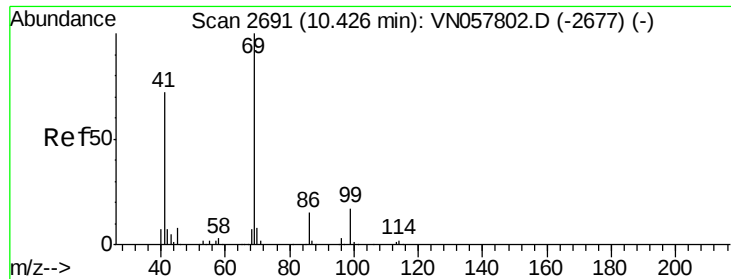


Abundance Ion 74.90 (74.60 to 75.60): VN058123.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN058123.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN058123.D (-2414) (-)

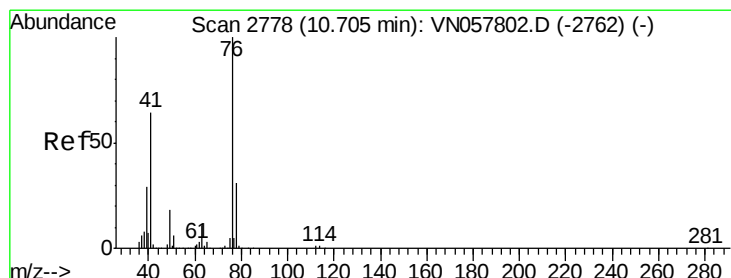
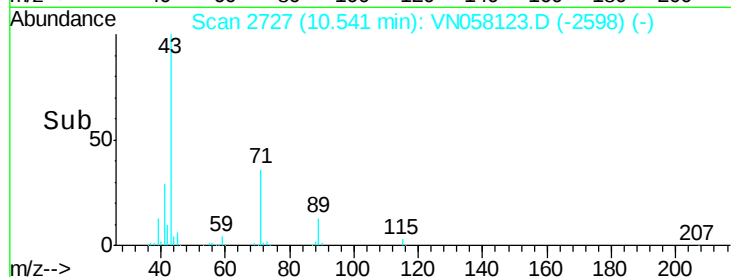
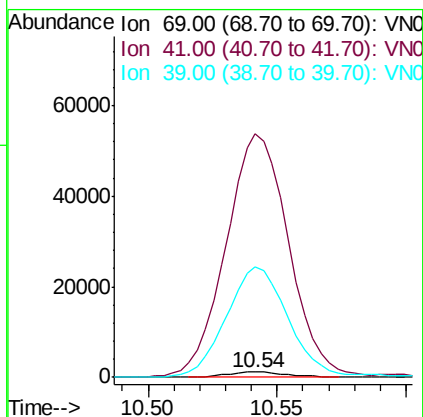
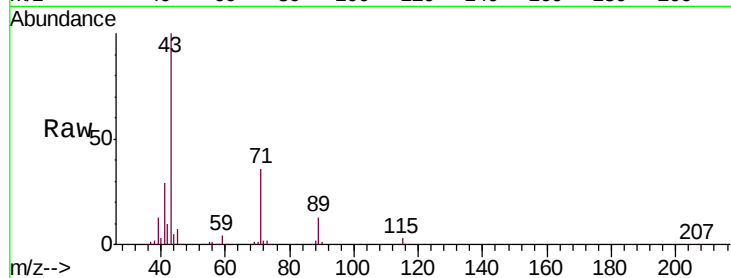




#56
Ethyl methacrylate
Concen: 0.236 ug/l
RT: 10.54 min Scan# 2727
Delta R.T. 0.12 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

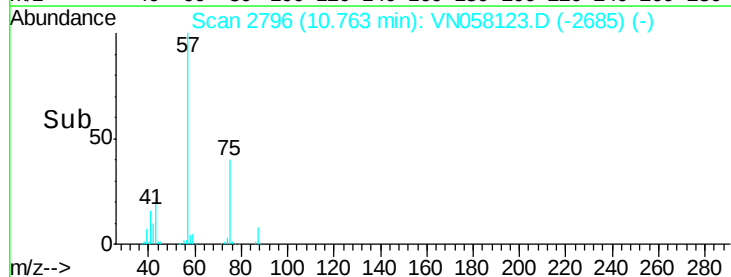
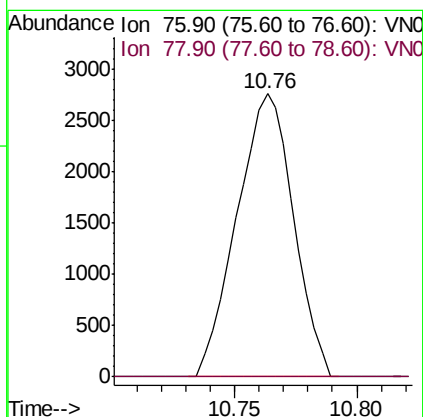
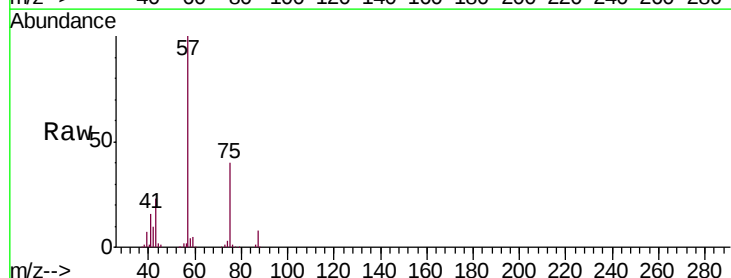
Instrument :
MSVOA_N
ClientSampled :
CSA-2-3

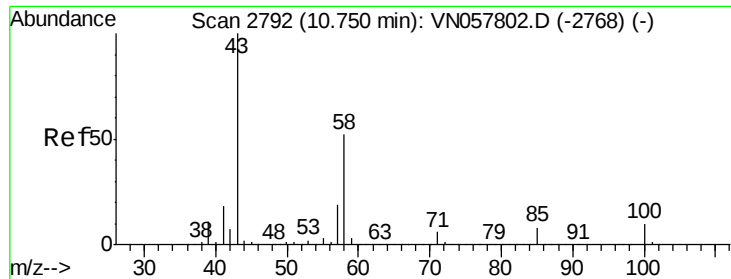
Tgt Ion: 69 Resp: 1916
Ion Ratio Lower Upper
69 100
41 4761.1 56.7 85.1#
39 2126.3 36.3 54.5#



#57
1,3-Dichloropropane
Concen: 0.479 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.06 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Tgt Ion: 76 Resp: 4444
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.2#

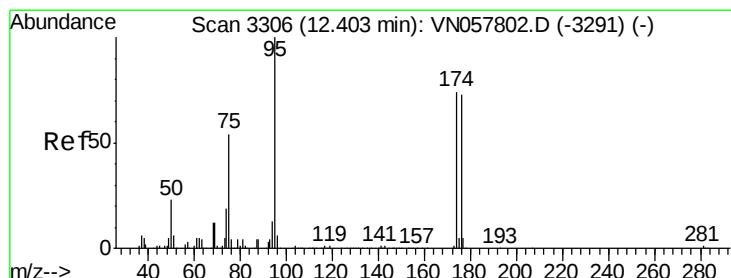
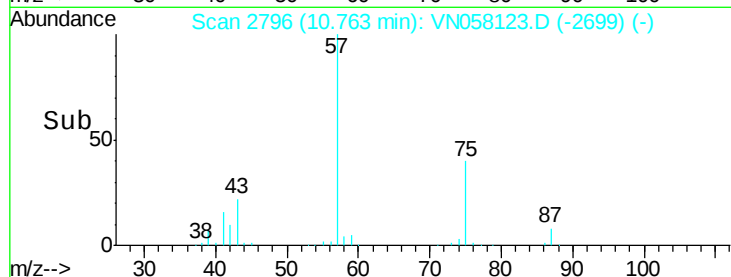
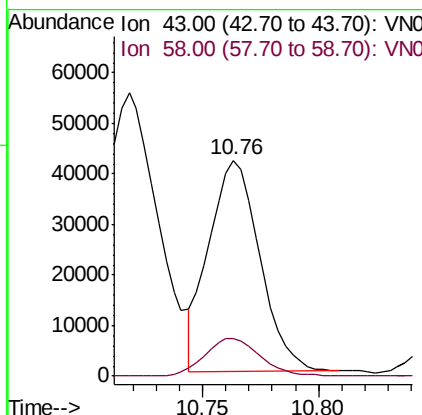
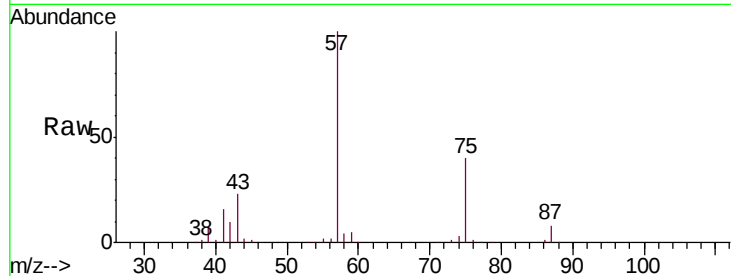




#59
 2-Hexanone
 Concen: 12.291 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

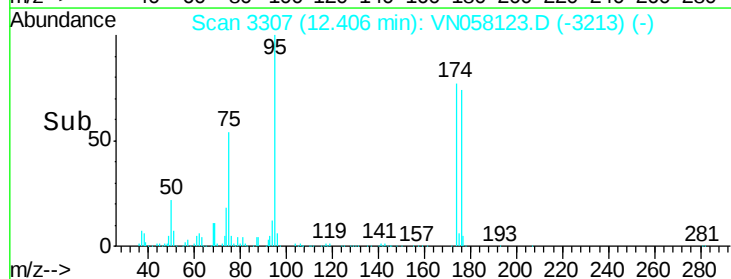
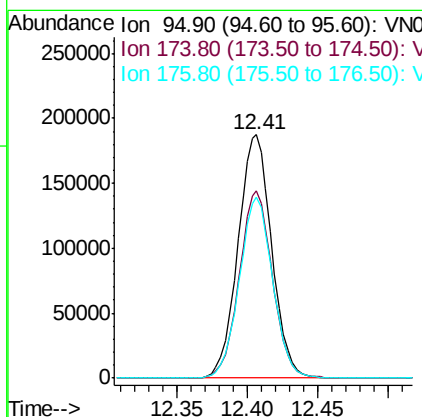
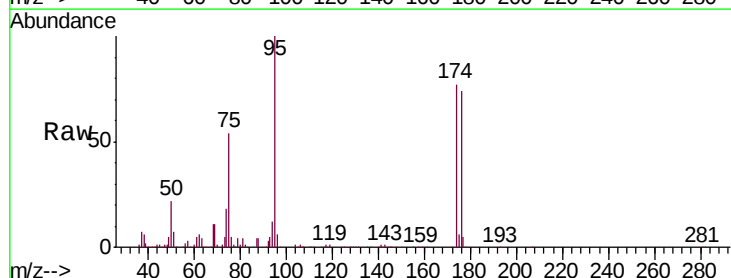
Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-3

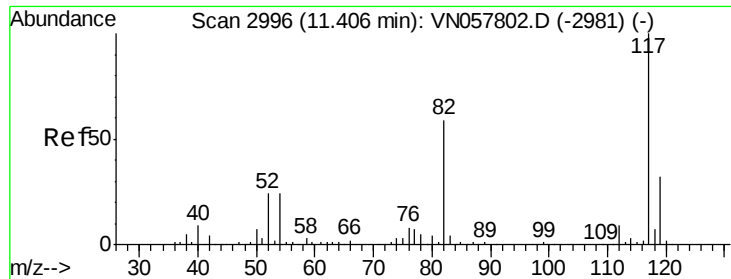
Tgt Ion: 43 Resp: 63457
 Ion Ratio Lower Upper
 43 100
 58 19.5 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 39.602 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

Tgt Ion: 95 Resp: 312410
 Ion Ratio Lower Upper
 95 100
 174 76.2 0.0 150.2
 176 74.2 0.0 146.0

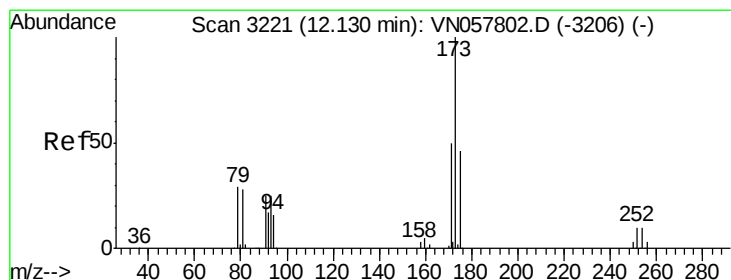
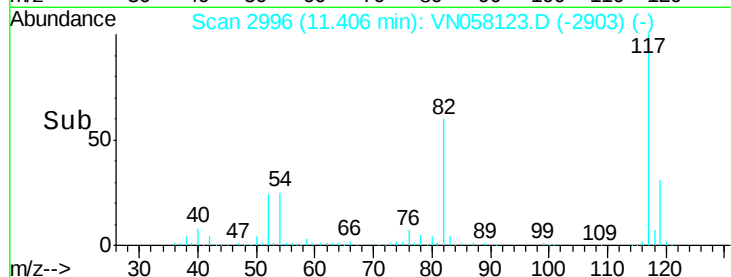
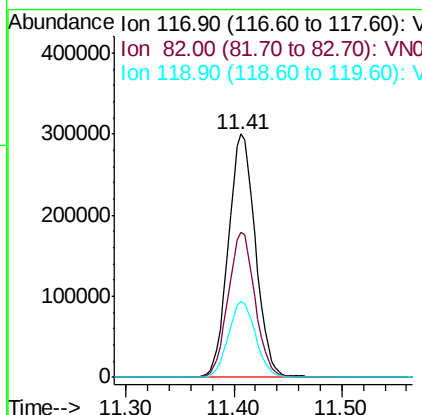
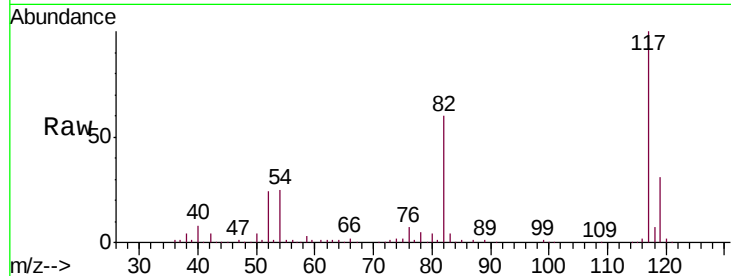




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

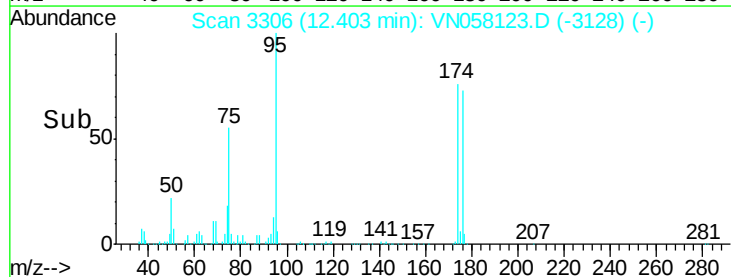
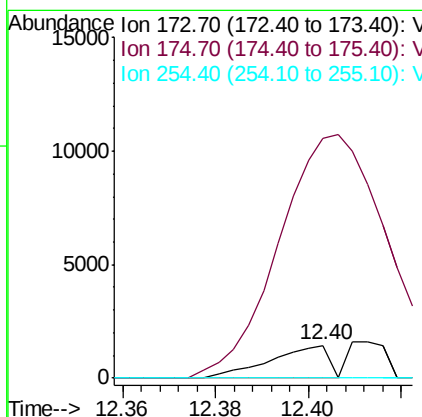
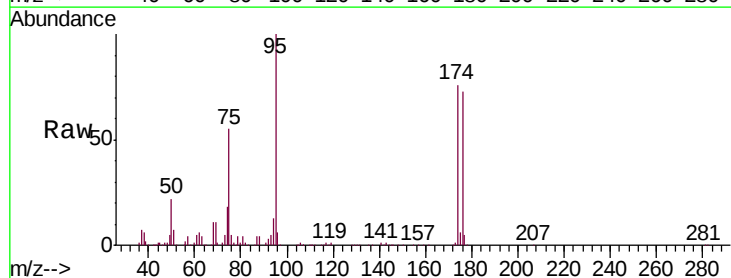
Instrument :
MSVOA_N
ClientSampled :
CSA-2-3

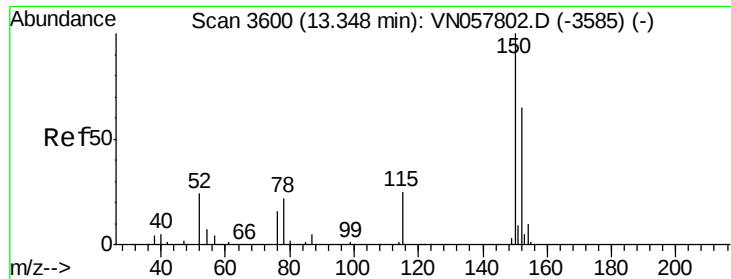
Tgt Ion:117 Resp: 525266
Ion Ratio Lower Upper
117 100
82 59.8 47.2 70.8
119 31.1 25.3 37.9



#71
Bromoform
Concen: 0.416 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Tgt Ion:173 Resp: 1237
Ion Ratio Lower Upper
173 100
175 1226.9 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: VN058123.D

Acq: 16 Sep 2019 16:51

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-3

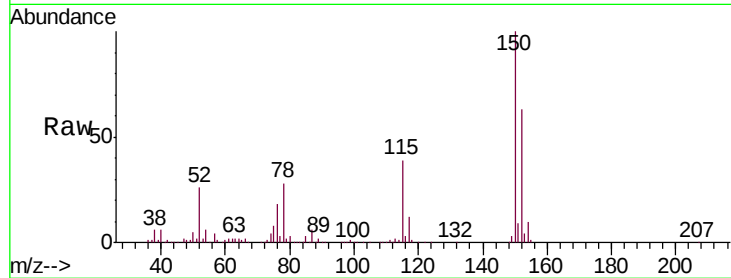
Tgt Ion:152 Resp: 271909

Ion Ratio Lower Upper

152 100

115 61.6 30.3 91.0

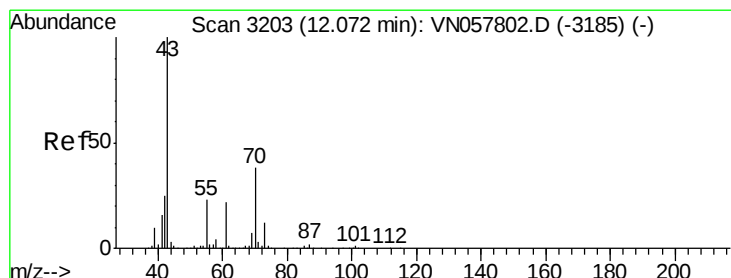
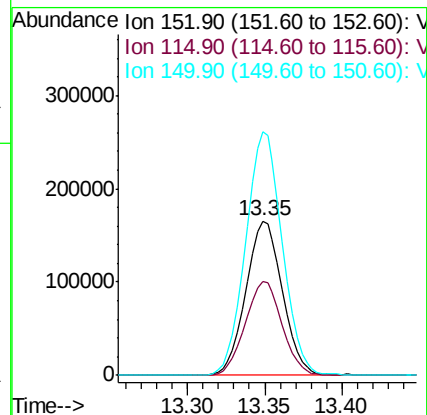
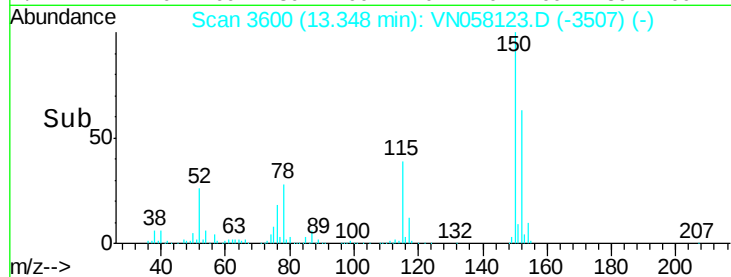
150 158.2 0.0 352.4



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: 0.328 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058123.D

Acq: 16 Sep 2019 16:51

Tgt Ion: 43 Resp: 3016

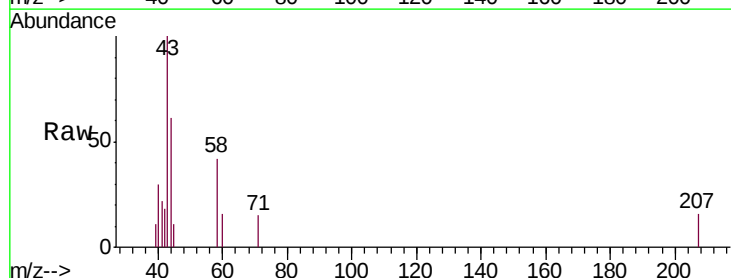
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.2 18.6 27.8#

61 0.0 17.4 26.2#

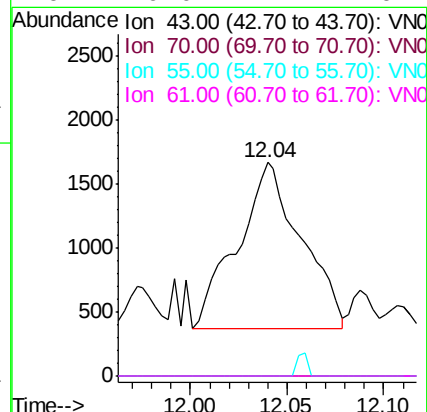
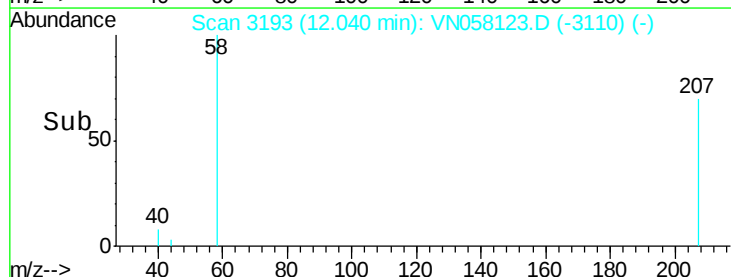


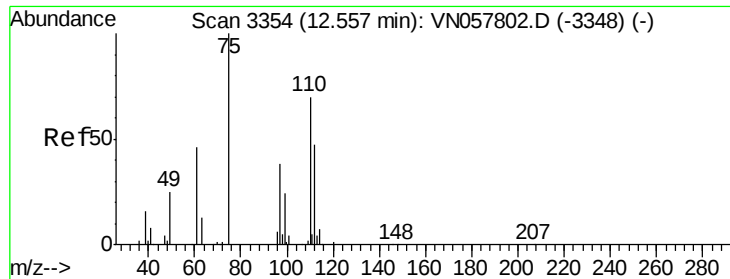
Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

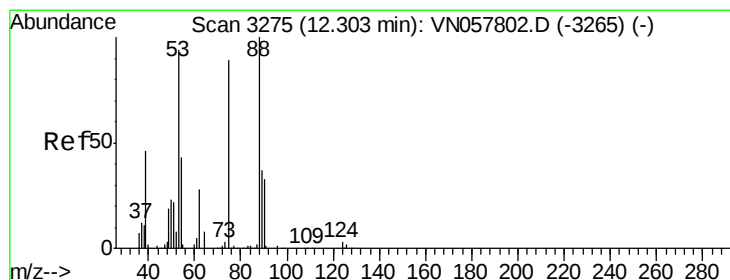
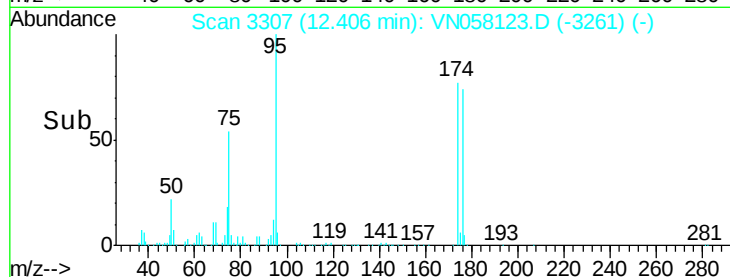
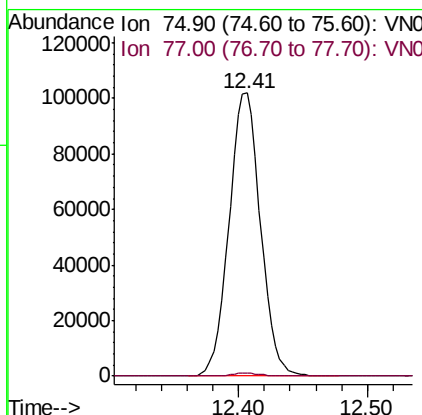
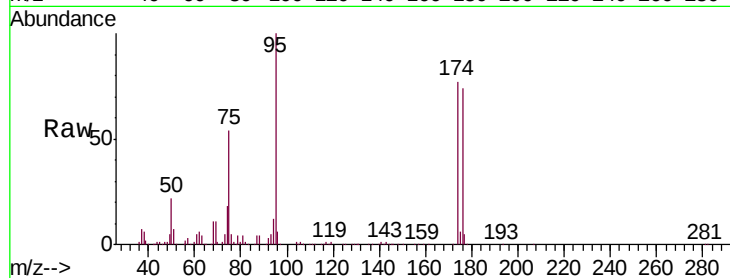




#76
 1,2,3-Trichloropropane
 Concen: 27.987 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

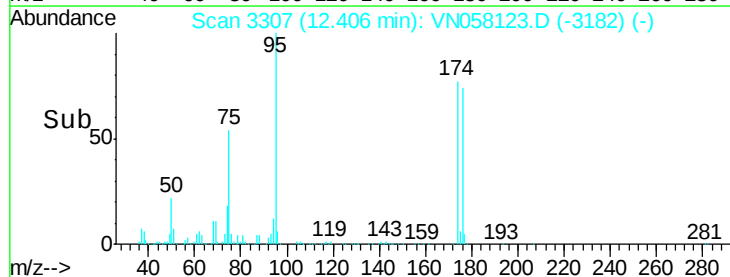
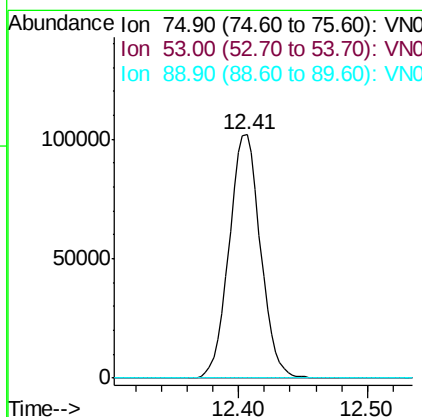
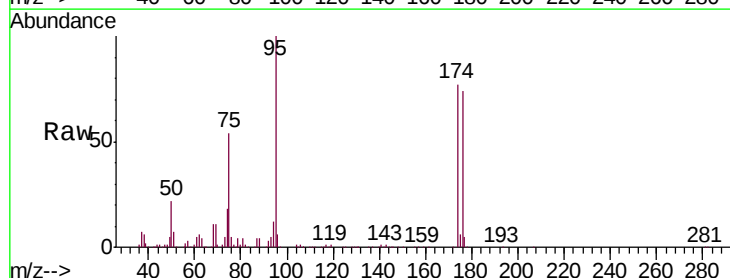
Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-3

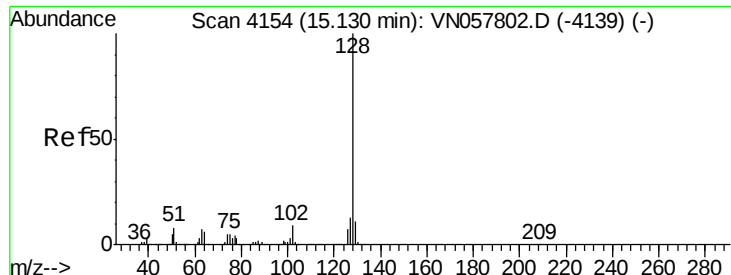
Tgt Ion: 75 Resp: 172150
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.487 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058123.D
 Acq: 16 Sep 2019 16:51

Tgt Ion: 75 Resp: 172150
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

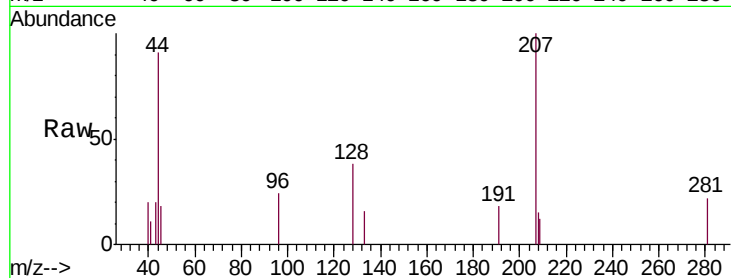




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN058123.D
Acq: 16 Sep 2019 16:51

Instrument :
MSVOA_N
ClientSampleId :
CSA-2-3

Tgt Ion:128 Resp: 752
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 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

