

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058122.D
 Acq On : 16 Sep 2019 16:29
 Operator : JC/SP
 Sample : K4877-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-2

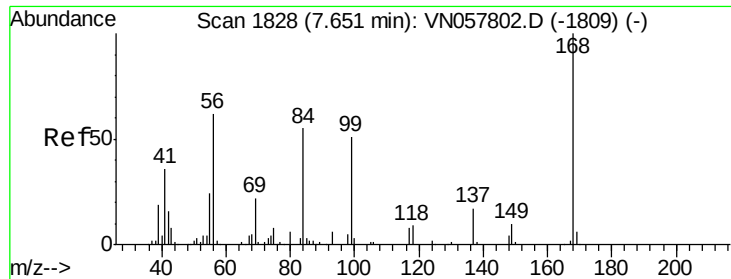
Quant Time: Sep 17 03:52:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	346980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	580505	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	539851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	281677	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	353217	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
35) Dibromofluoromethane	7.58	113	241034	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	
50) Toluene-d8	10.08	98	963175	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	
62) 4-Bromofluorobenzene	12.41	95	314295	39.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	30	Below Cal	#	2
16) Acetone	3.81	43	12035	5.224	ug/l	99
17) Carbon Disulfide	4.03	76	1824	0.475	ug/l #	75
18) Methyl Acetate	4.31	43	6913	1.125	ug/l #	57
20) Methylene Chloride	4.53	84	8107	0.633	ug/l	91
29) Tetrahydrofuran	7.20	42	1085	0.528	ug/l #	45
31) Cyclohexane	7.65	56	8454	Below Cal	#	4
36) 1,1-Dichloropropene	7.65	75	30426	4.519	ug/l #	51
38) Carbon Tetrachloride	7.65	117	35969	5.852	ug/l #	16
43) Isopropyl Acetate	8.16	43	138777	11.864	ug/l #	81
45) 1,2-Dichloropropane	9.25	63	1913	0.324	ug/l #	44
48) Methyl methacrylate	9.18	41	5890	0.993	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6305	0.911	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	37675	4.553	ug/l #	67
56) Ethyl methacrylate	10.54	69	1738	0.213	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4762	0.511	ug/l #	43
59) 2-Hexanone	10.76	43	77307	14.900	ug/l #	53
71) Bromoform	12.40	173	673	0.220	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	175480	27.539	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	175480	96.911	ug/l #	6
95) Naphthalene	15.14	128	970	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

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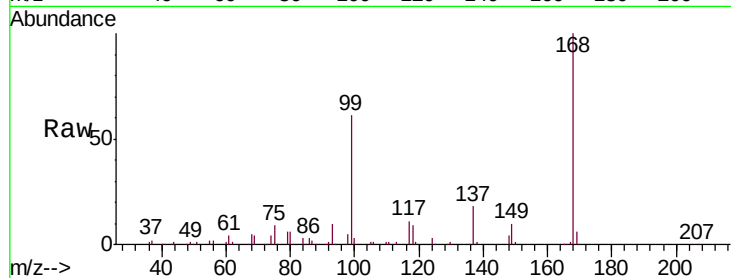
CSA-2-2

Tgt Ion:168 Resp: 346980

Ion Ratio Lower Upper

168 100

99 61.3 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

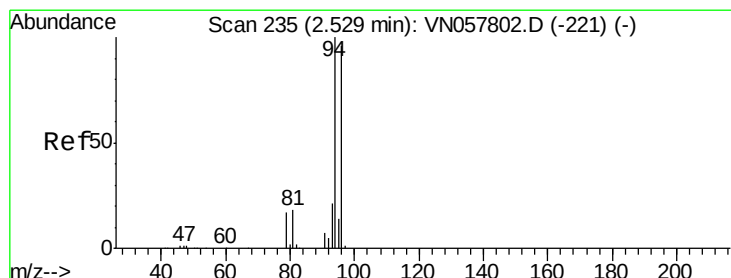
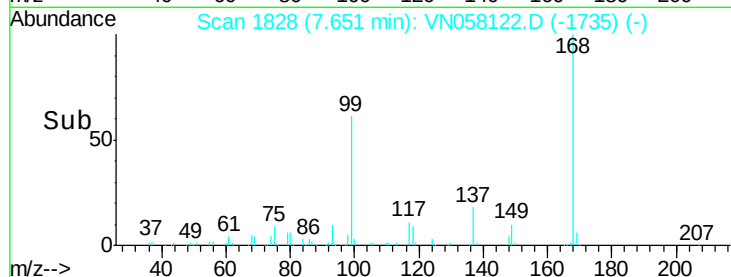
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.05 min

Lab File: VN058122.D

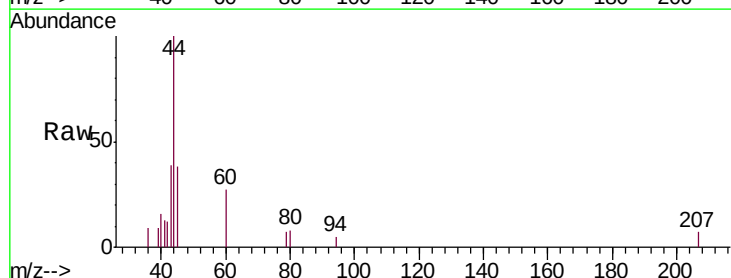
Acq: 16 Sep 2019 16:29

Tgt Ion: 94 Resp: 30

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

2.58

150

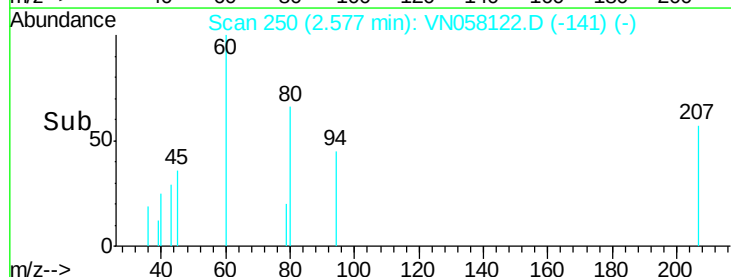
100

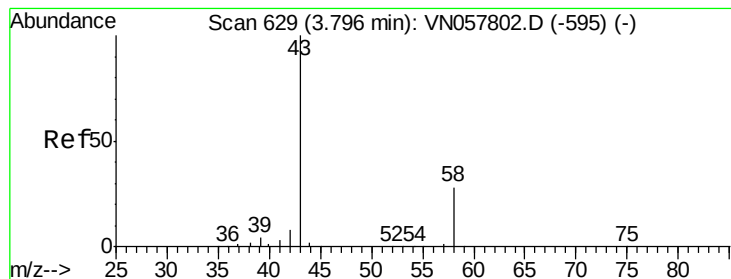
50

0

2.56 2.57 2.58 2.59

Time-->





#16

Acetone

Concen: 5.224 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

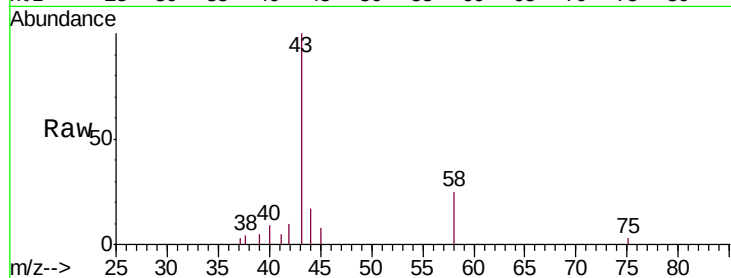
CSA-2-2

Tgt Ion: 43 Resp: 12035

Ion Ratio Lower Upper

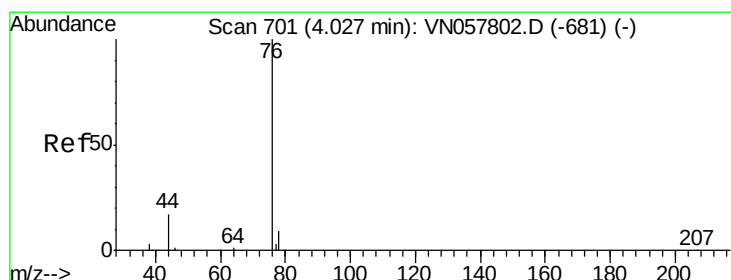
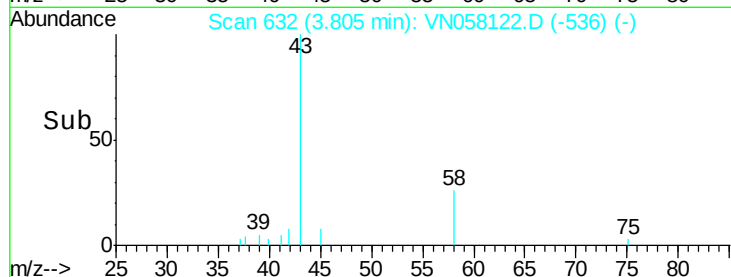
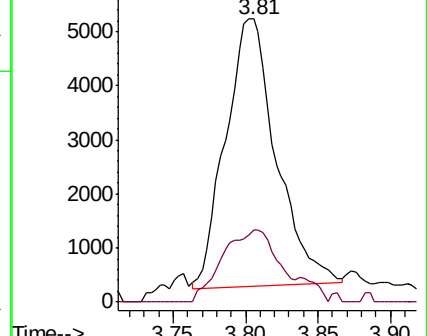
43 100

58 27.3 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.475 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN058122.D

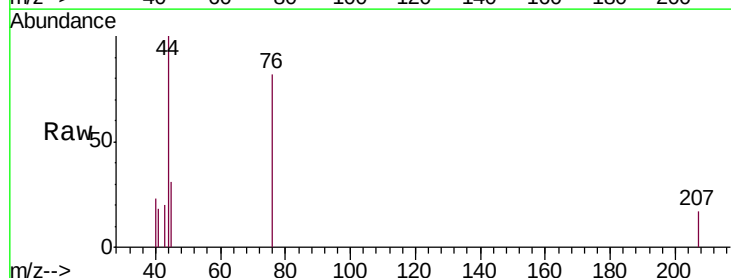
Acq: 16 Sep 2019 16:29

Tgt Ion: 76 Resp: 1824

Ion Ratio Lower Upper

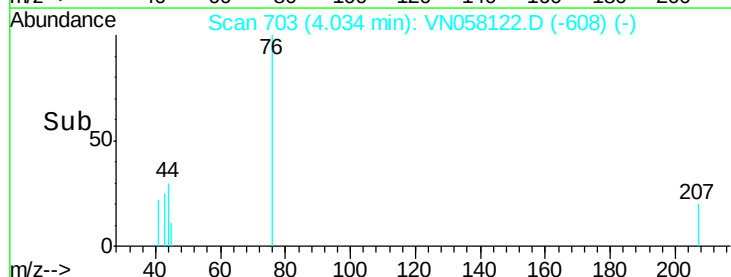
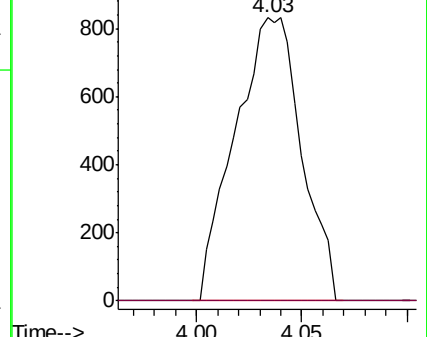
76 100

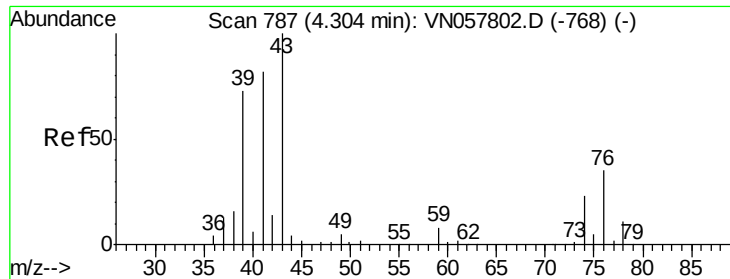
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

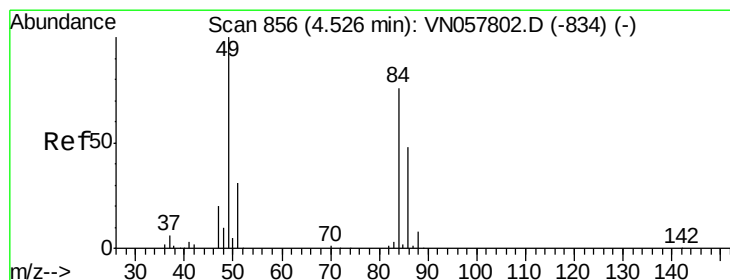
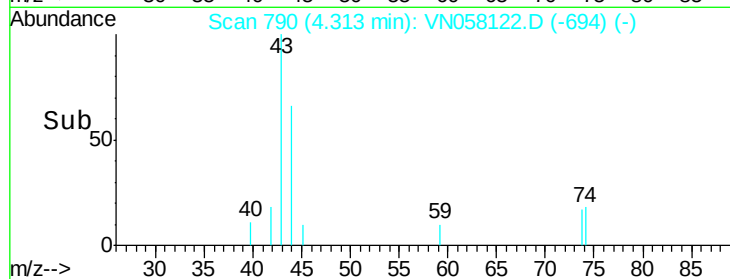
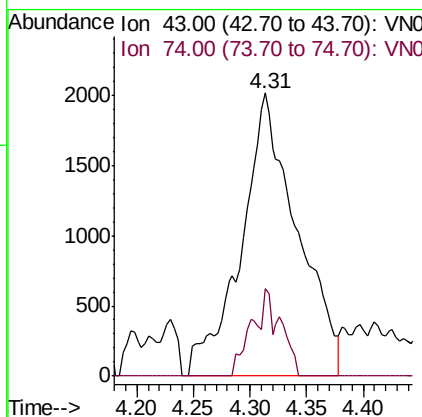
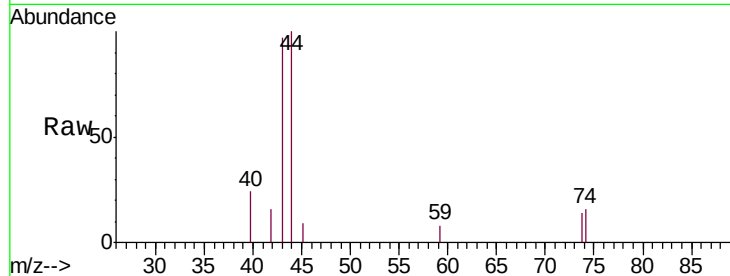




#18
Methyl Acetate
Concen: 1.125 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058122.D
Acq: 16 Sep 2019 16:29

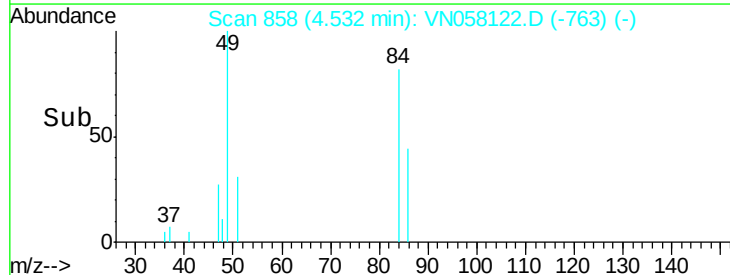
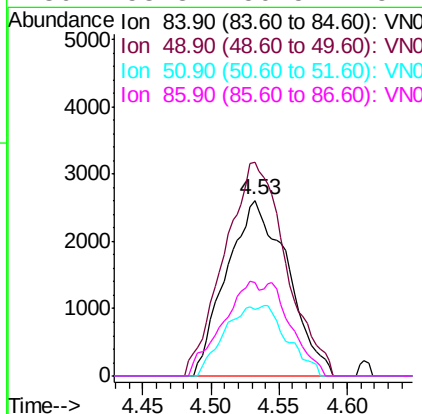
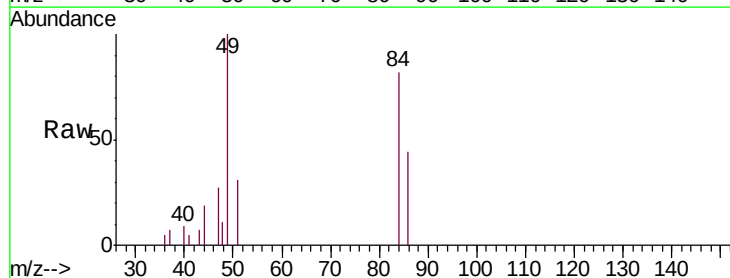
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-2

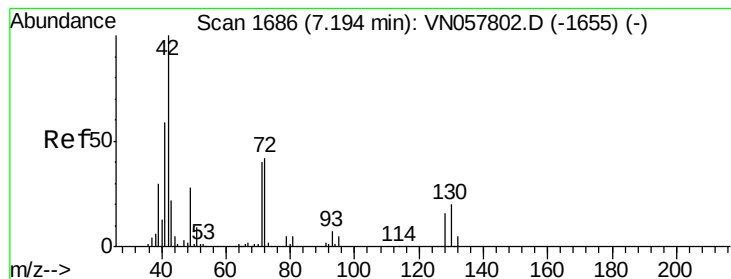
Tgt Ion: 43 Resp: 6913
Ion Ratio Lower Upper
43 100
74 1.9 17.9 26.9#



#20
Methylene Chloride
Concen: 0.633 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058122.D
Acq: 16 Sep 2019 16:29

Tgt Ion: 84 Resp: 8107
Ion Ratio Lower Upper
84 100
49 121.7 104.8 157.2
51 38.0 33.0 49.4
86 53.3 50.5 75.7





#29

Tetrahydrofuran

Concen: 0.528 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-2

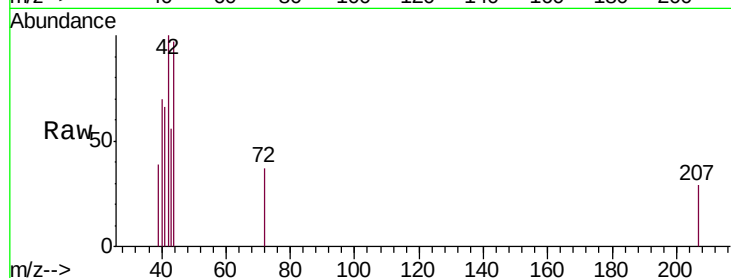
Tgt Ion: 42 Resp: 1085

Ion Ratio Lower Upper

42 100

72 7.2 33.7 50.5#

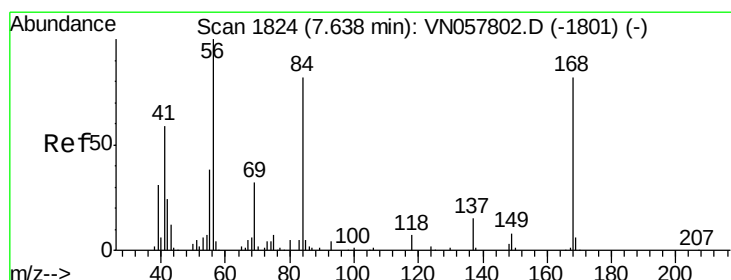
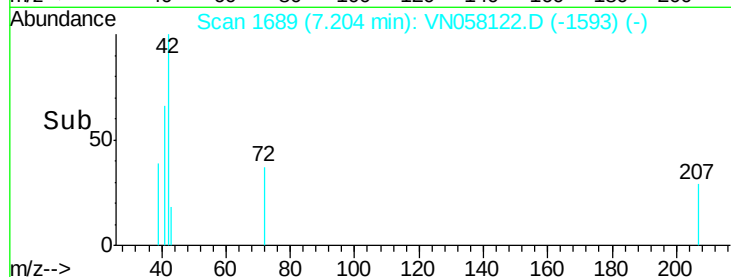
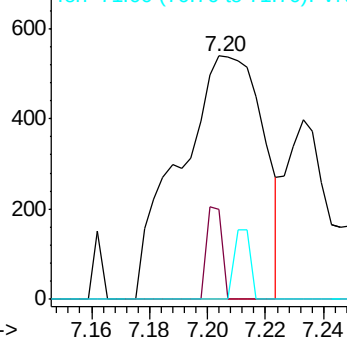
71 5.5 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

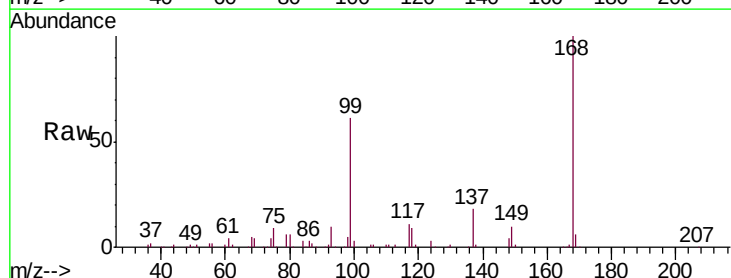
Tgt Ion: 56 Resp: 8454

Ion Ratio Lower Upper

56 100

69 167.7 25.9 38.9#

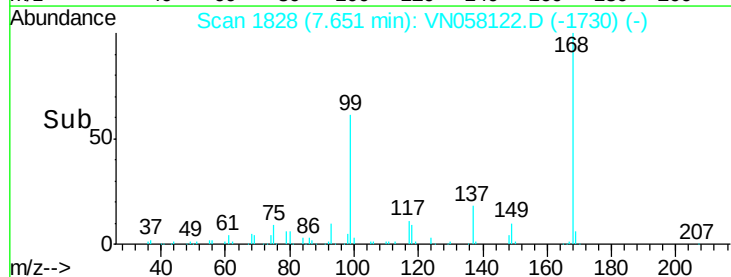
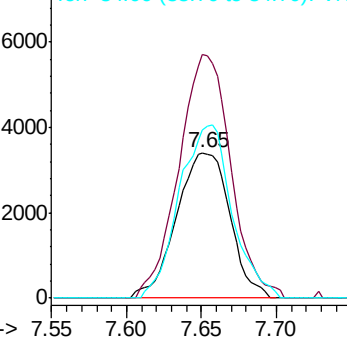
84 116.1 65.6 98.4#

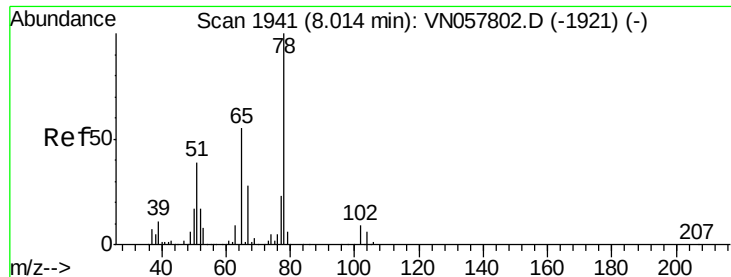


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

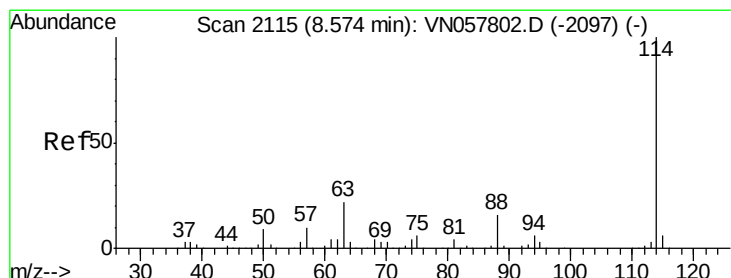
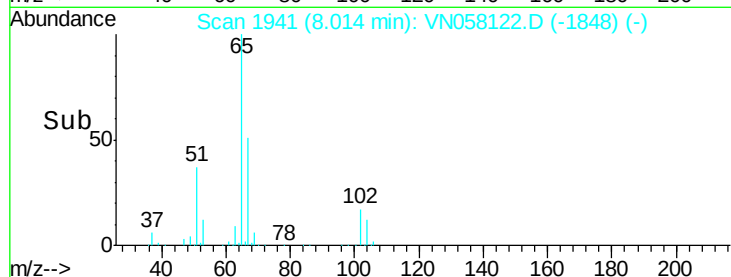
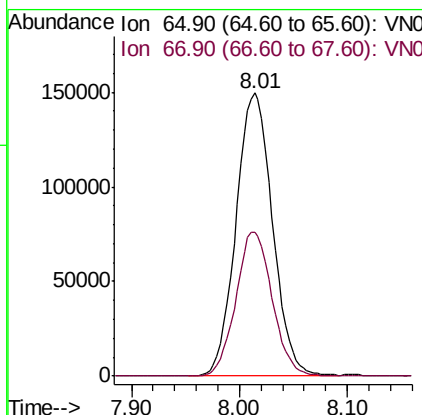
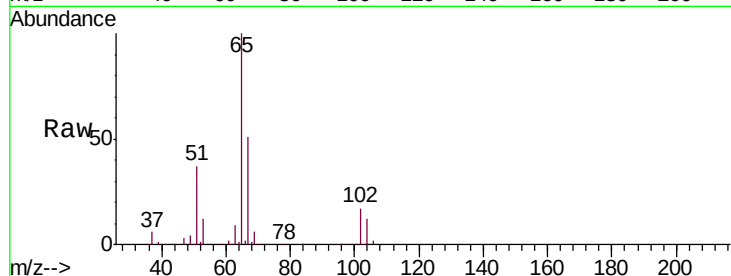




#33
 1,2-Dichloroethane-d4
 Concen: 50.260 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

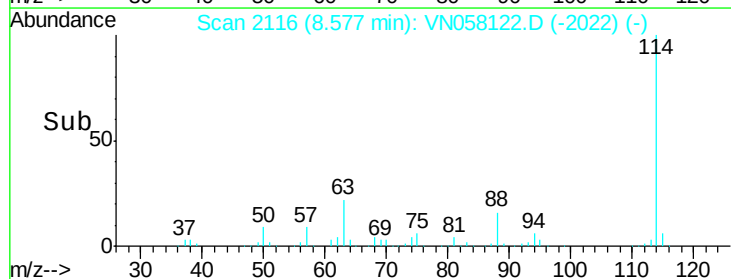
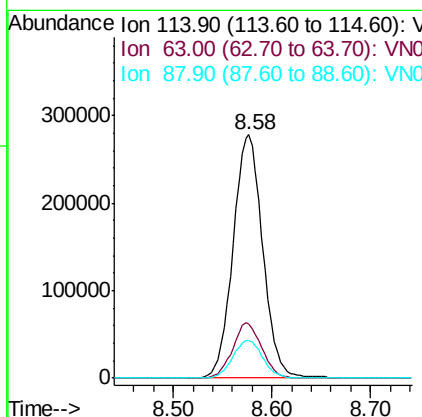
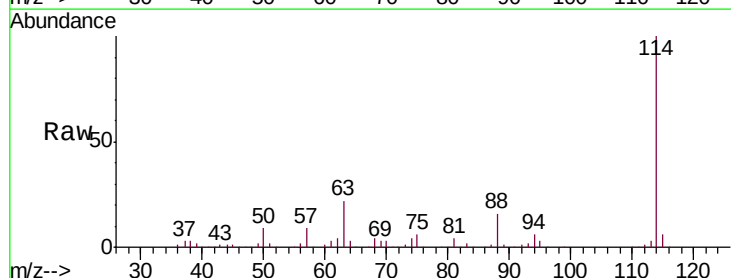
Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-2

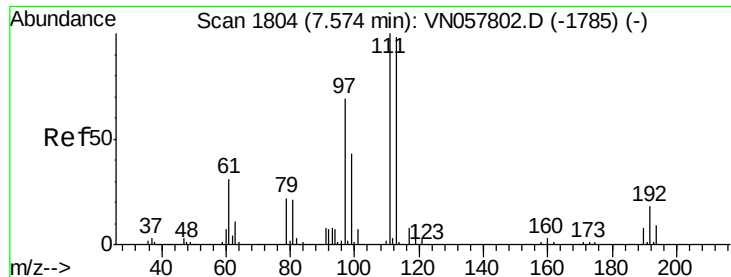
Tgt Ion: 65 Resp: 353217
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

Tgt Ion: 114 Resp: 580505
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 44.0
 88 15.5 0.0 31.4

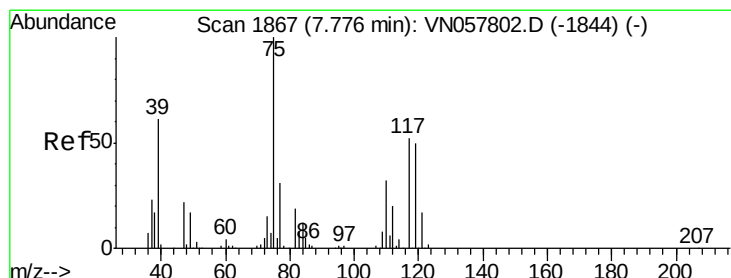
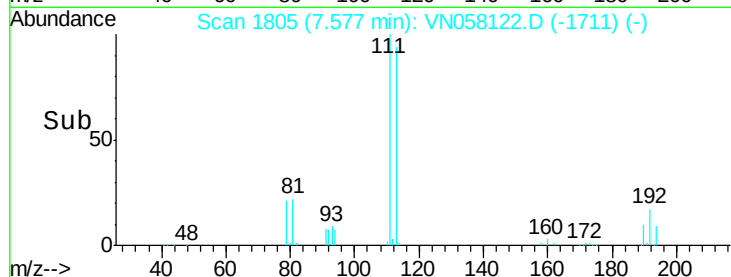
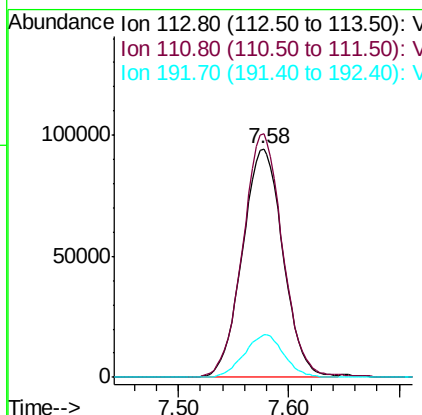
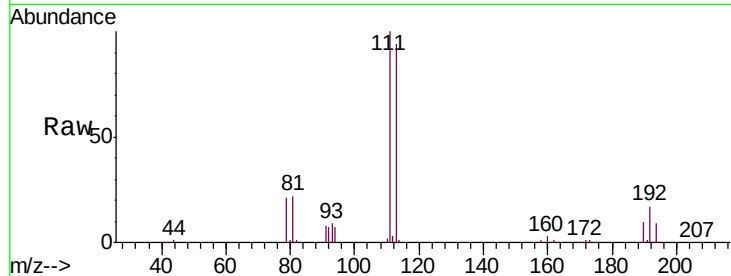




#35
 Dibromofluoromethane
 Concen: 44.987 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

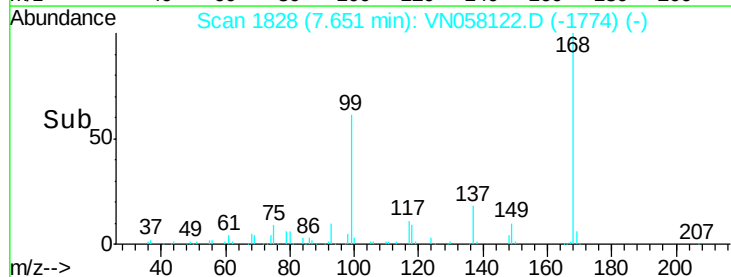
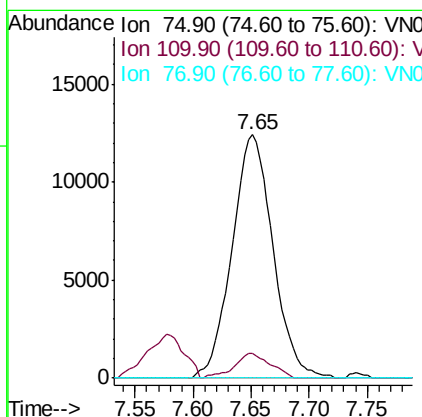
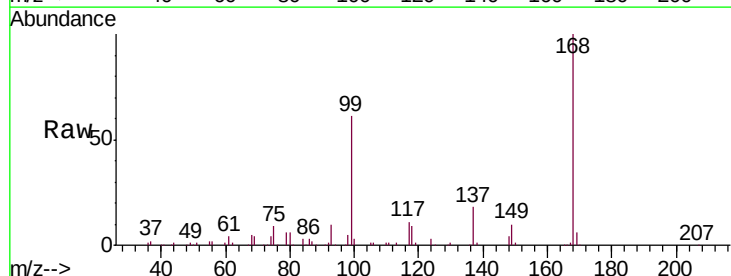
Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-2

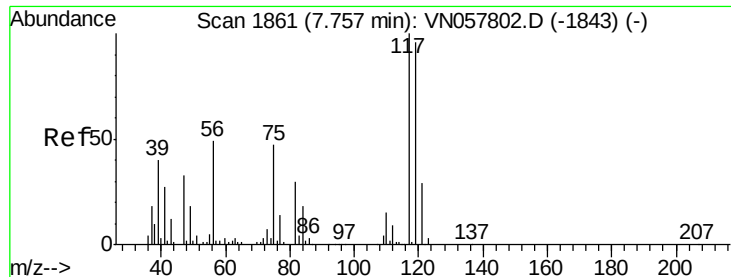
Tgt Ion:113 Resp: 241034
 Ion Ratio Lower Upper
 113 100
 111 105.0 81.3 121.9
 192 18.3 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.519 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

Tgt Ion: 75 Resp: 30426
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.852 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

CSA-2-2

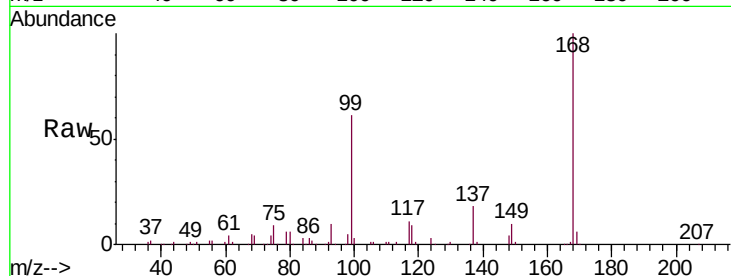
Tgt Ion:117 Resp: 35969

Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

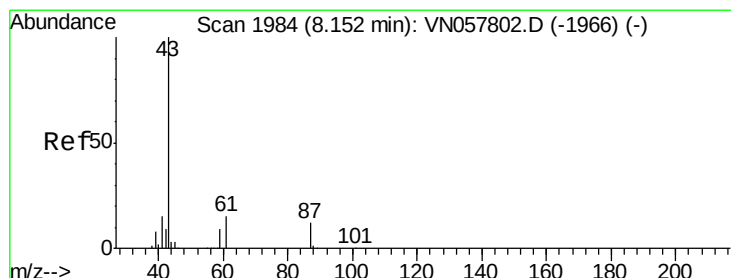
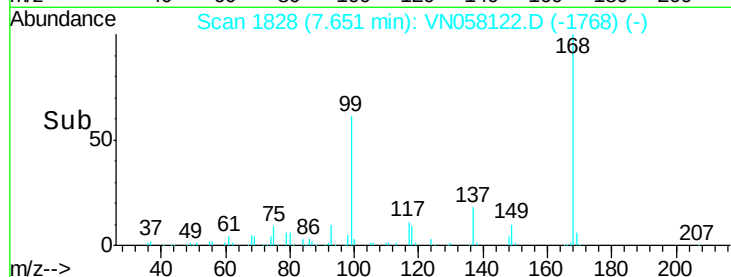
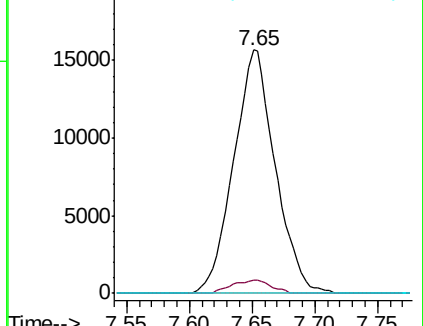
121 0.0 23.4 35.2#



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: 11.864 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

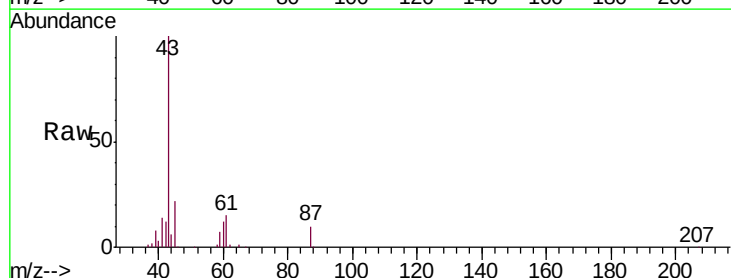
Tgt Ion: 43 Resp: 138777

Ion Ratio Lower Upper

43 100

61 13.3 20.1 30.1#

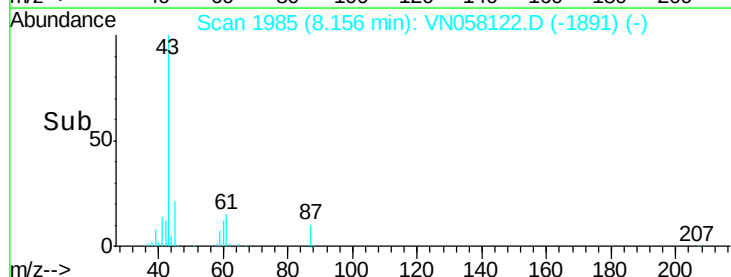
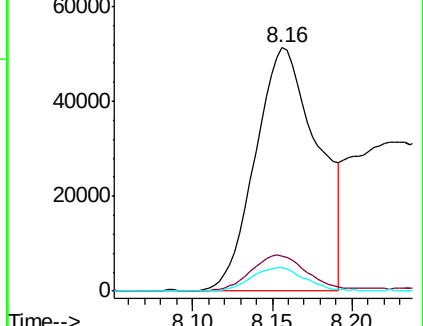
87 8.3 9.5 14.3#

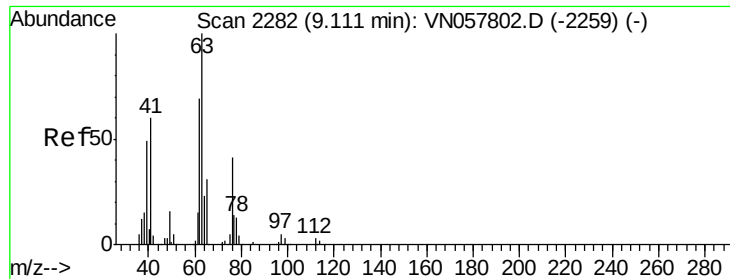


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

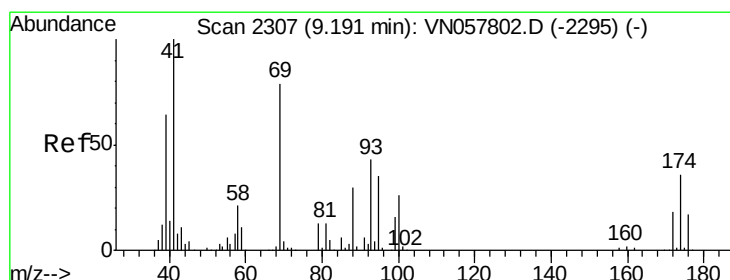
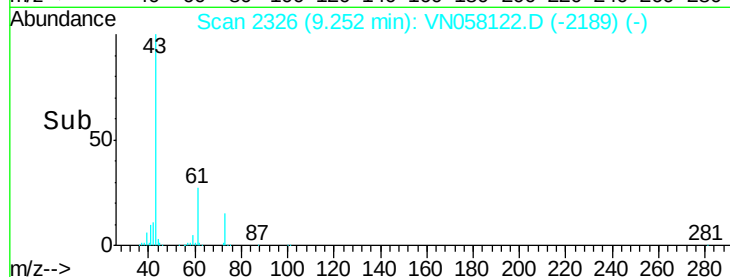
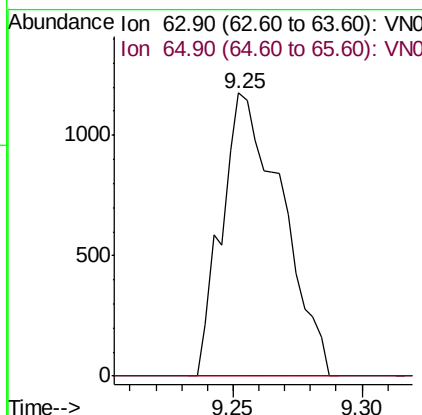
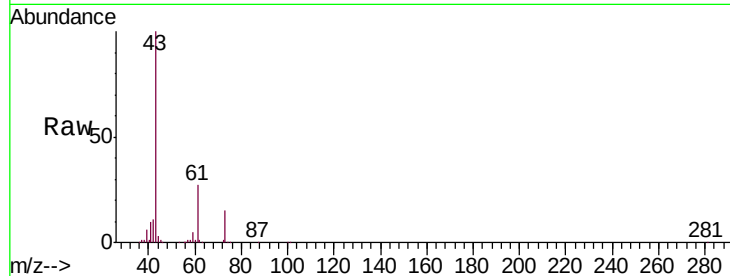




#45
 1,2-Dichloropropane
 Concen: 0.324 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.14 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

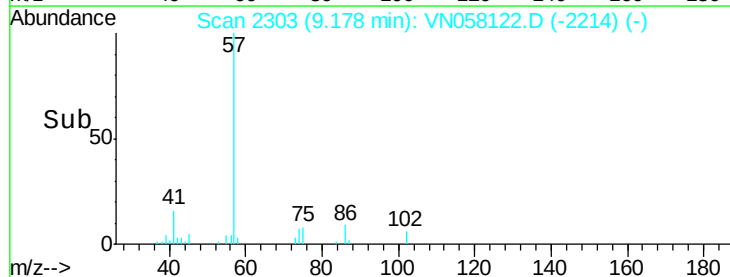
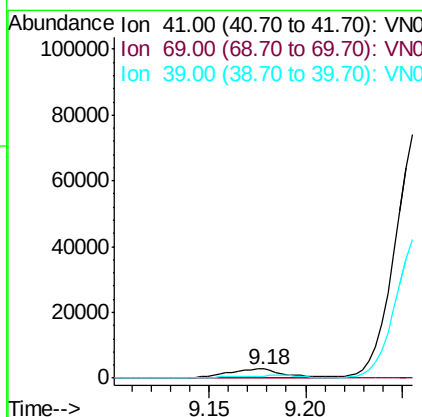
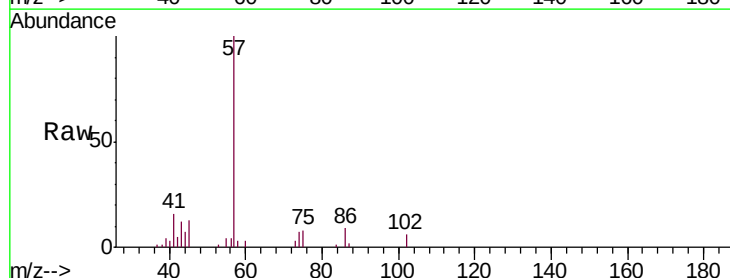
Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-2

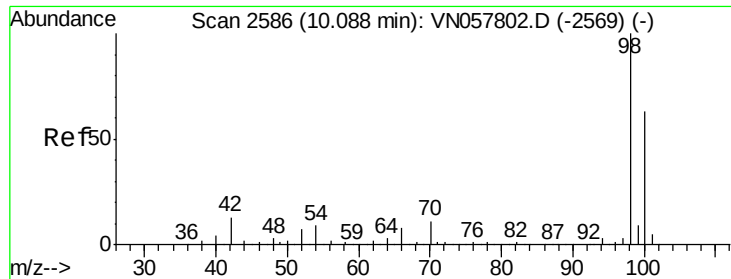
Tgt Ion: 63 Resp: 1913
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.993 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.01 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

Tgt Ion: 41 Resp: 5890
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 46.302 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

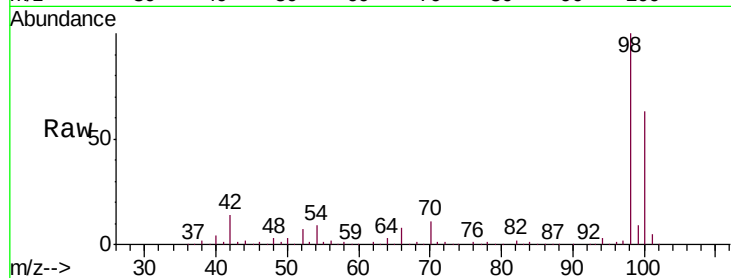
CSA-2-2

Tgt Ion: 98 Resp: 963175

Ion Ratio Lower Upper

98 100

100 62.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.08

500000

400000

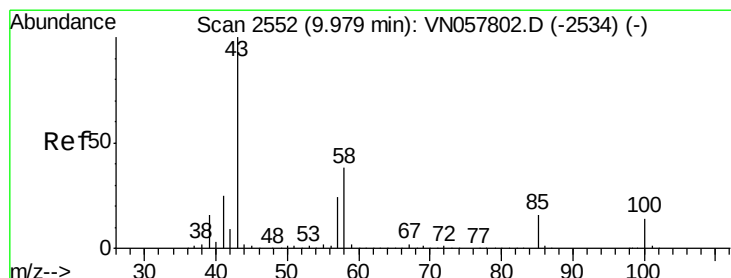
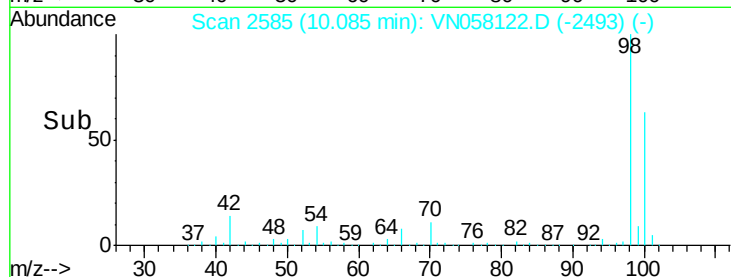
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.911 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058122.D

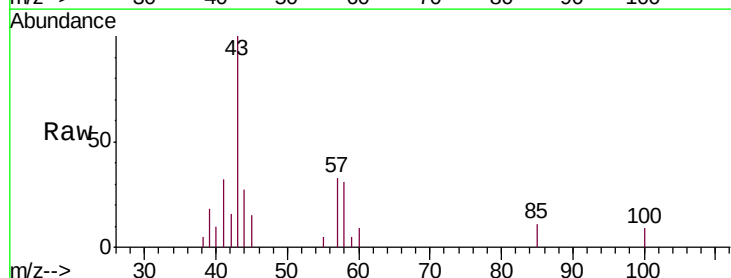
Acq: 16 Sep 2019 16:29

Tgt Ion: 43 Resp: 6305

Ion Ratio Lower Upper

43 100

58 39.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

9.98

4000

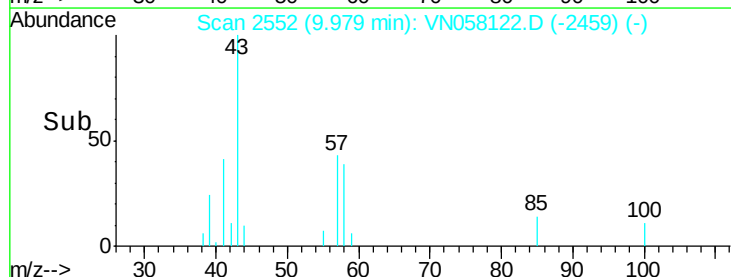
3000

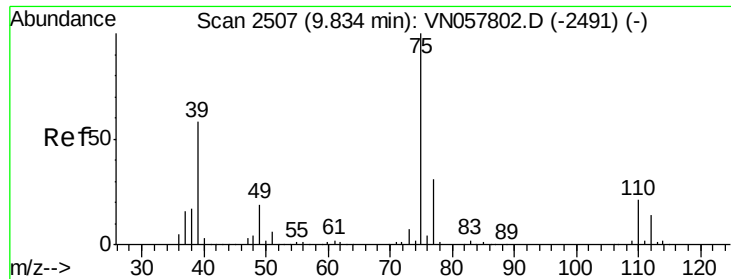
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.553 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

CSA-2-2

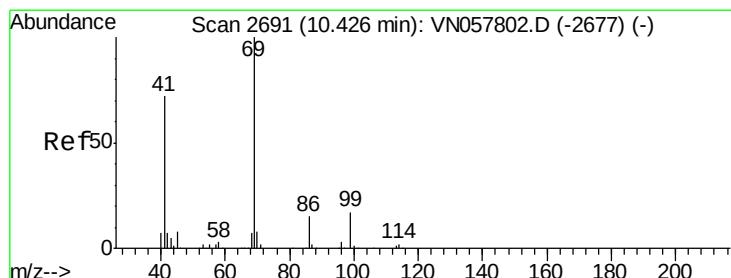
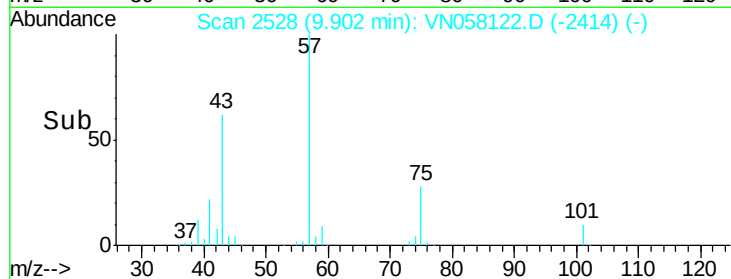
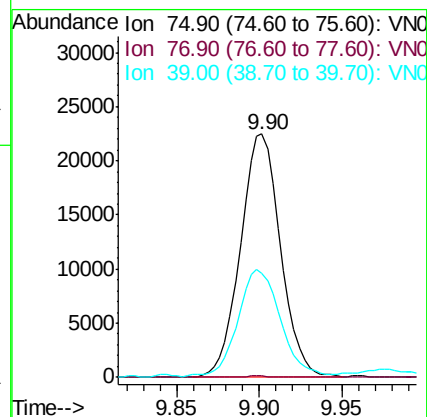
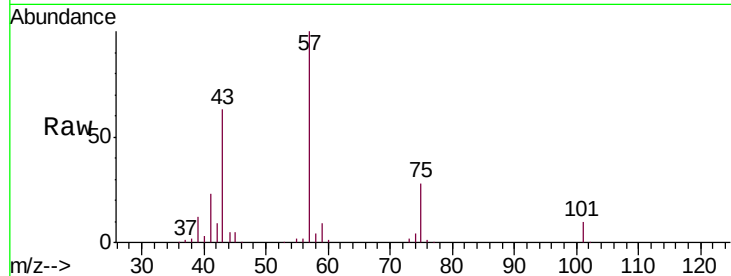
Tgt Ion: 75 Resp: 37675

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

39 42.0 46.2 69.4#



#56

Ethyl methacrylate

Concen: 0.213 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

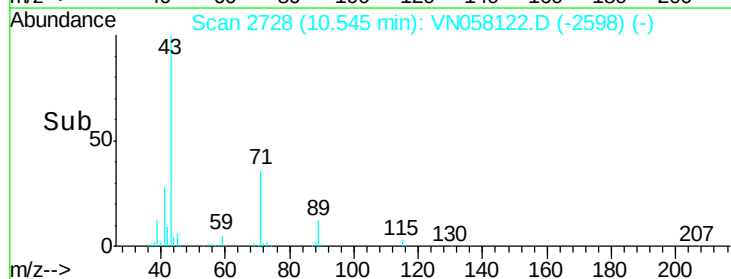
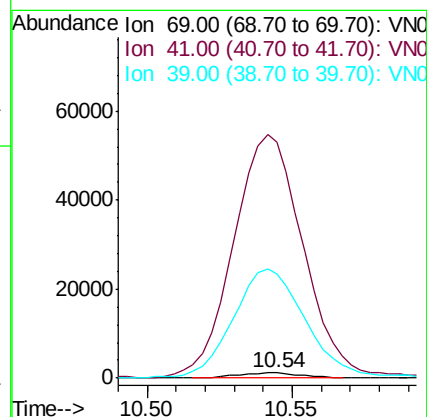
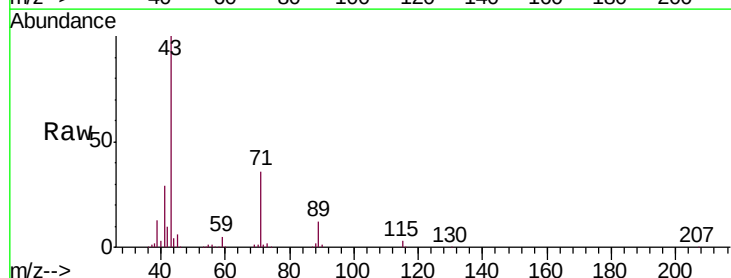
Tgt Ion: 69 Resp: 1738

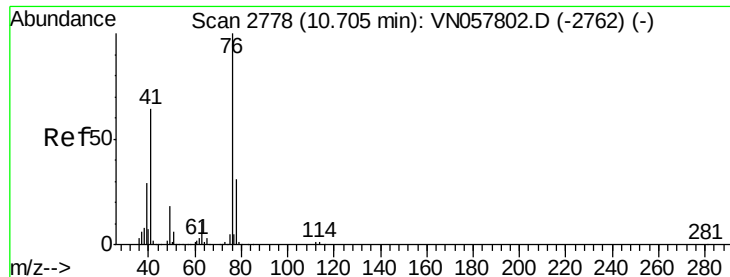
Ion Ratio Lower Upper

69 100

41 5306.5 56.7 85.1#

39 2474.5 36.3 54.5#

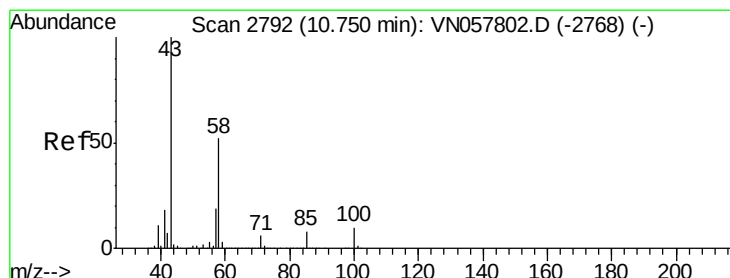
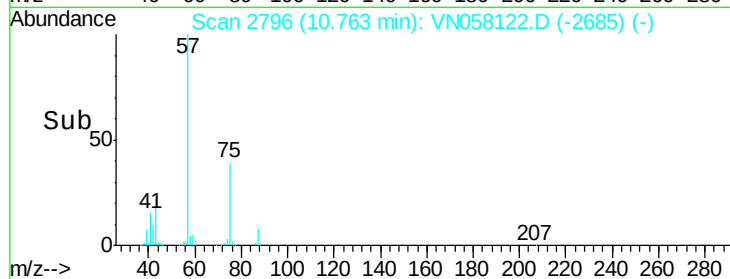
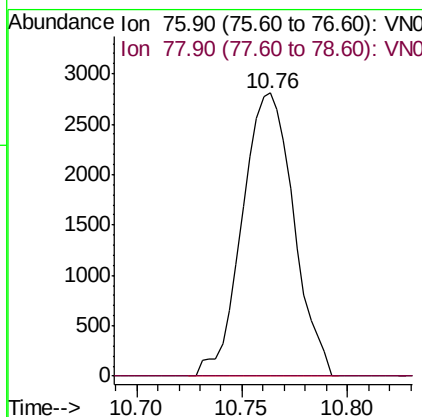
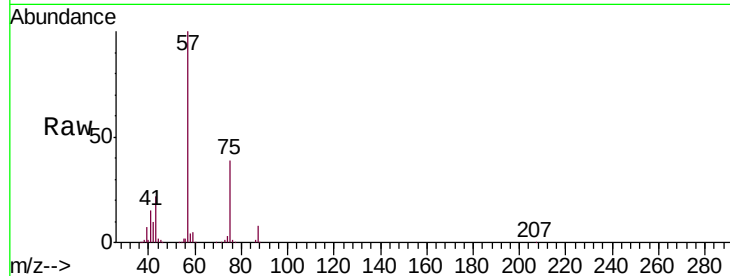




#57
 1,3-Dichloropropane
 Concen: 0.511 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

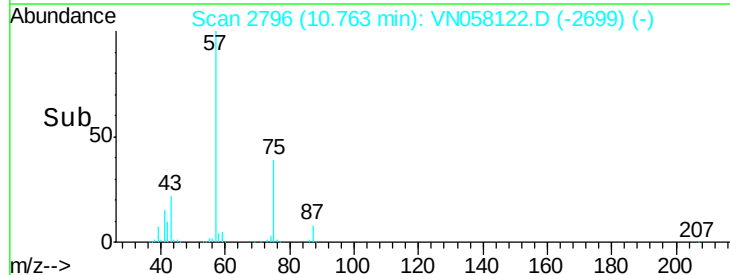
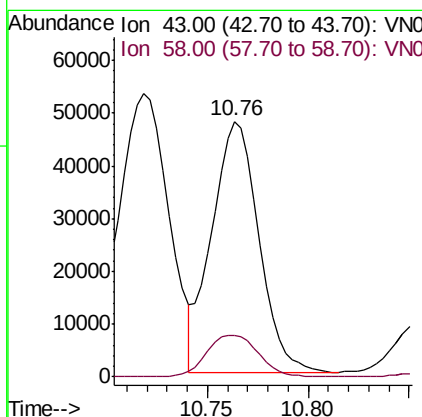
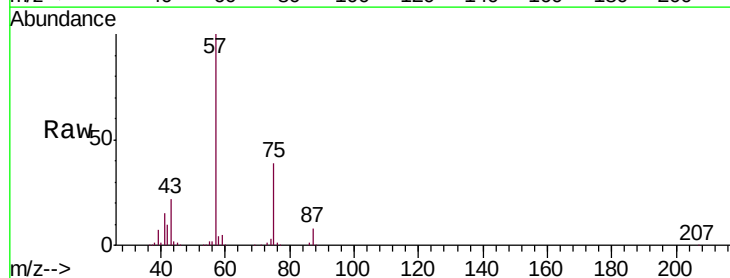
Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-2

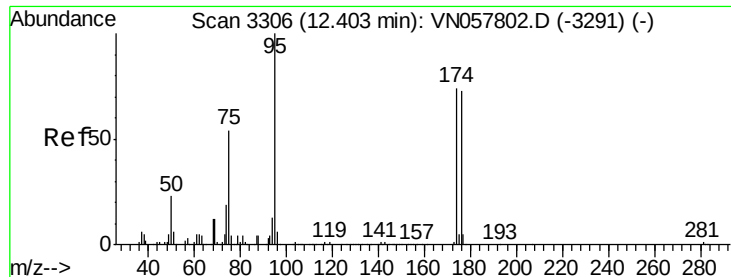
Tgt Ion: 76 Resp: 4762
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 14.900 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058122.D
 Acq: 16 Sep 2019 16:29

Tgt Ion: 43 Resp: 77307
 Ion Ratio Lower Upper
 43 100
 58 18.2 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 39.647 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

CSA-2-2

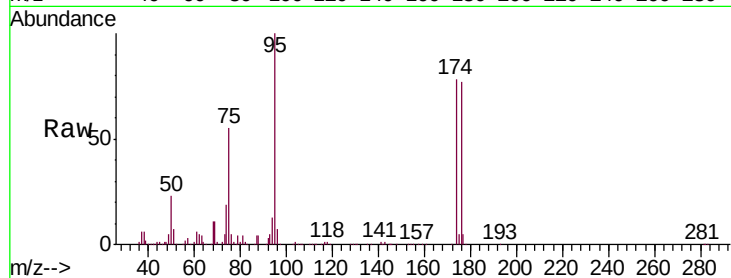
Tgt Ion: 95 Resp: 314295

Ion Ratio Lower Upper

95 100

174 76.7 0.0 150.2

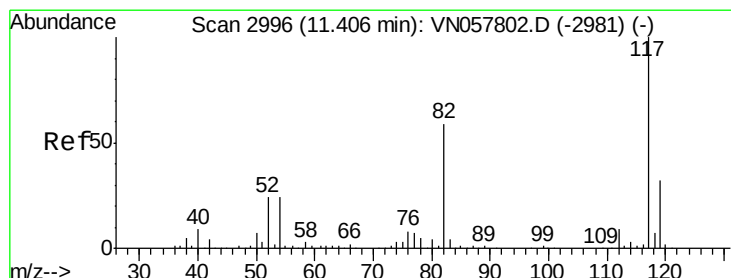
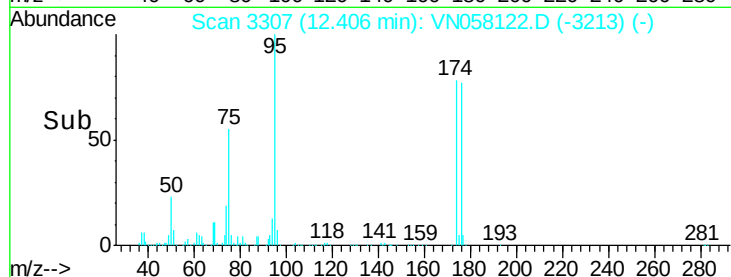
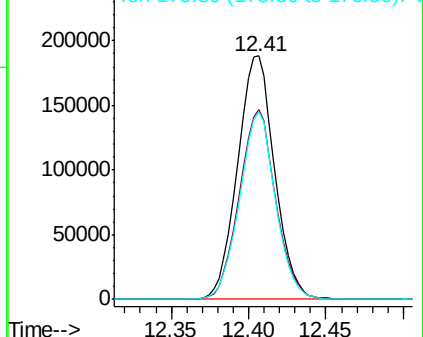
176 74.5 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN058122.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058122.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058122.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

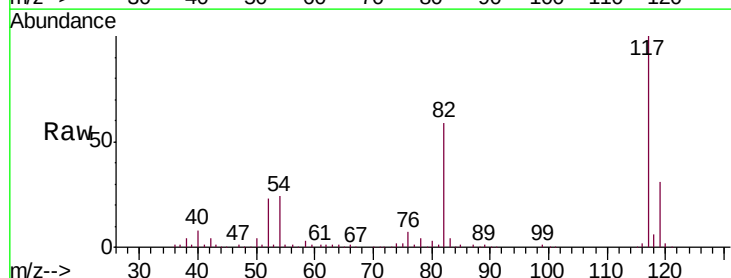
Tgt Ion: 117 Resp: 539851

Ion Ratio Lower Upper

117 100

82 58.5 47.2 70.8

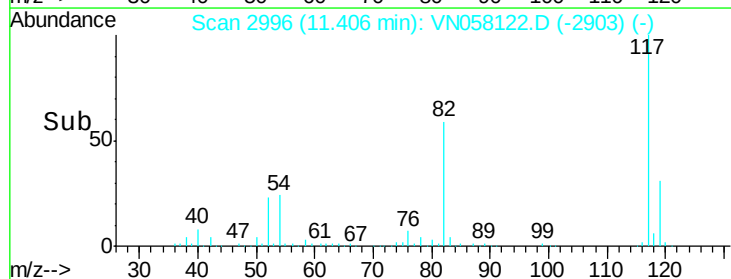
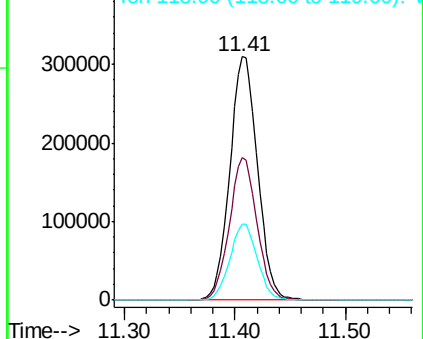
119 31.0 25.3 37.9

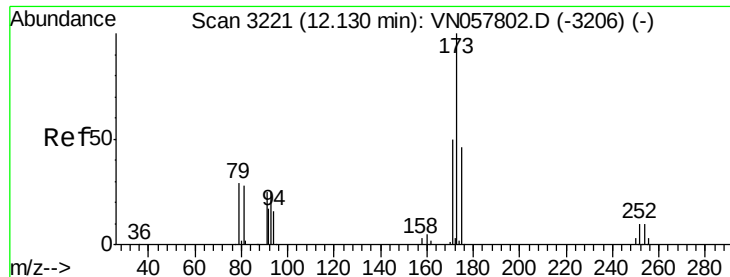


Abundance Ion 116.90 (116.60 to 117.60): VN058122.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058122.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058122.D (-2903) (-)





#71

Bromoform

Concen: 0.220 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

CSA-2-2

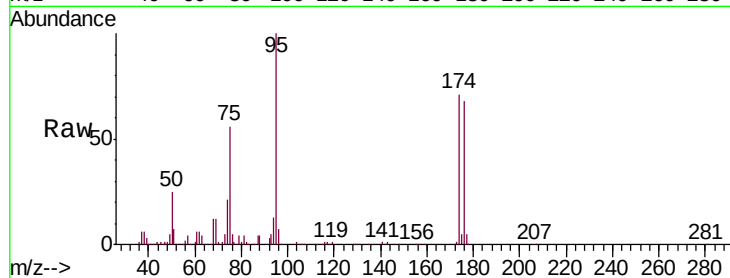
Tgt Ion:173 Resp: 673

Ion Ratio Lower Upper

173 100

175 2194.5 23.5 70.6#

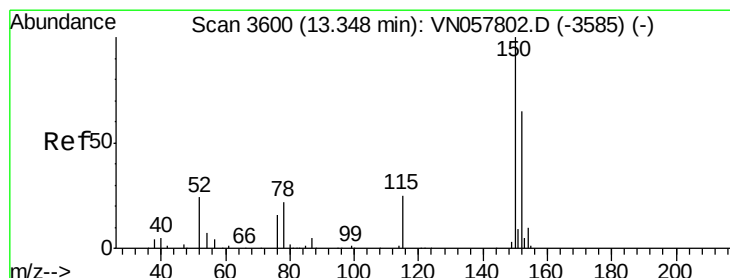
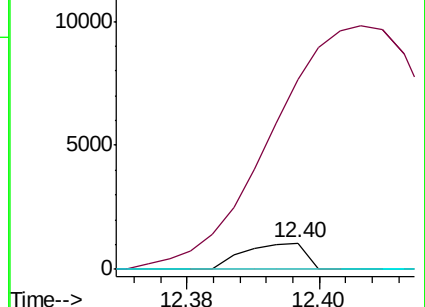
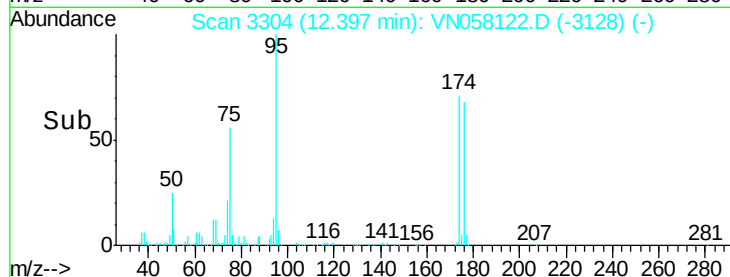
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

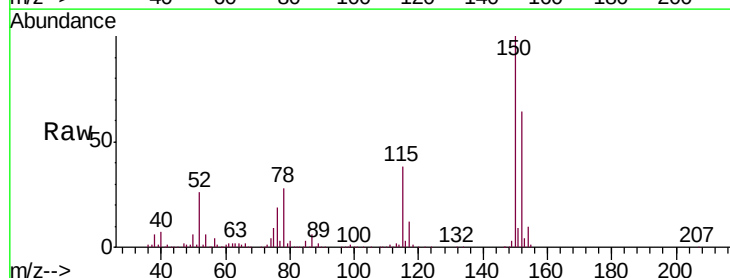
Tgt Ion:152 Resp: 281677

Ion Ratio Lower Upper

152 100

115 59.7 30.3 91.0

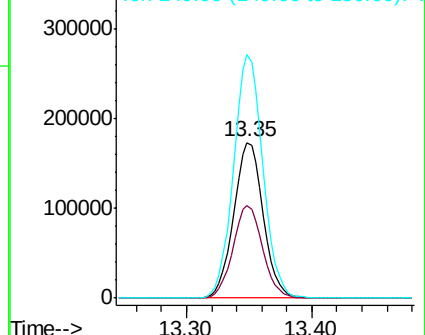
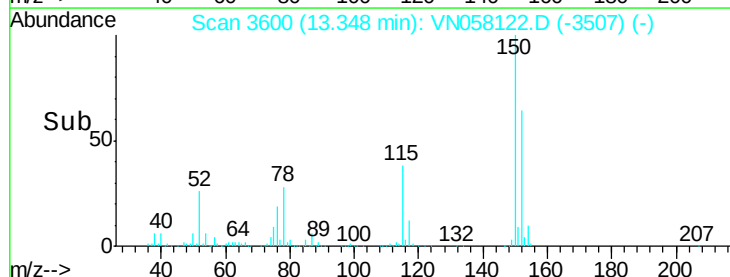
150 156.0 0.0 352.4

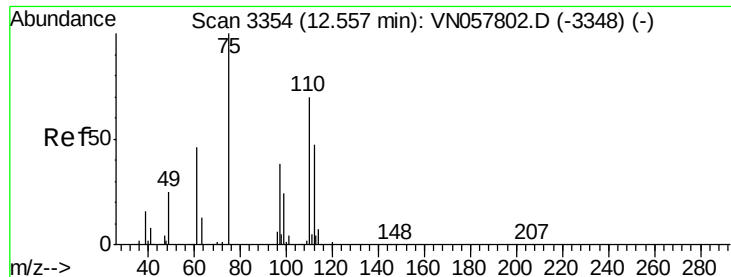


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.539 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

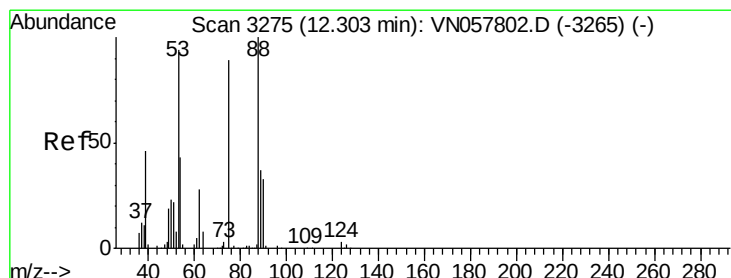
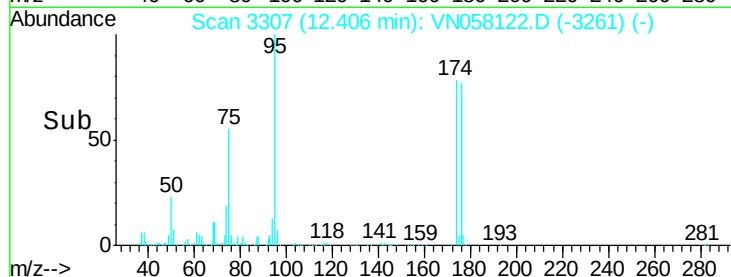
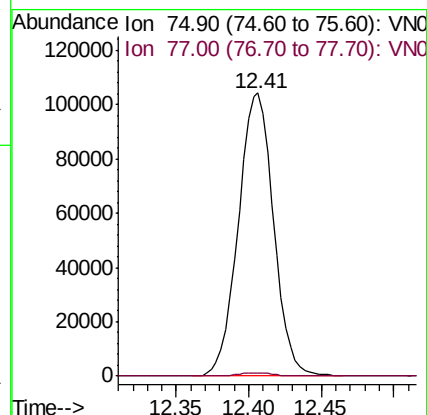
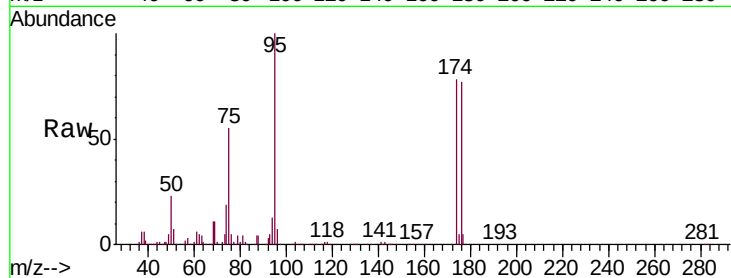
CSA-2-2

Tgt Ion: 75 Resp: 175480

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 96.911 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058122.D

Acq: 16 Sep 2019 16:29

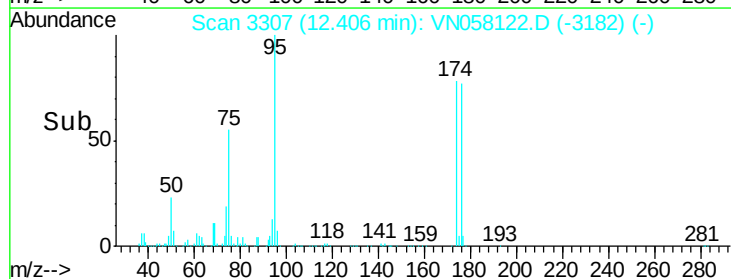
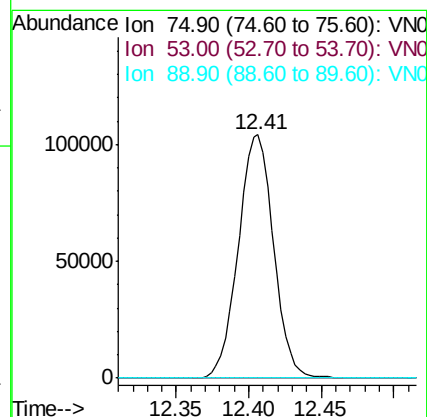
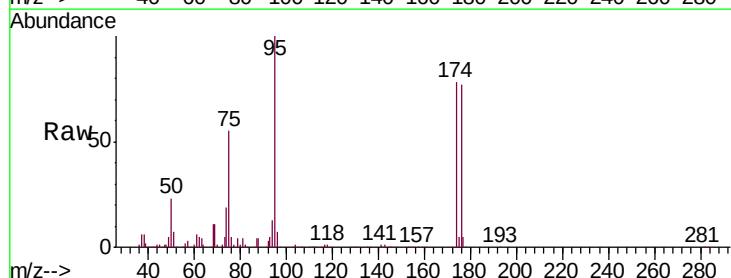
Tgt Ion: 75 Resp: 175480

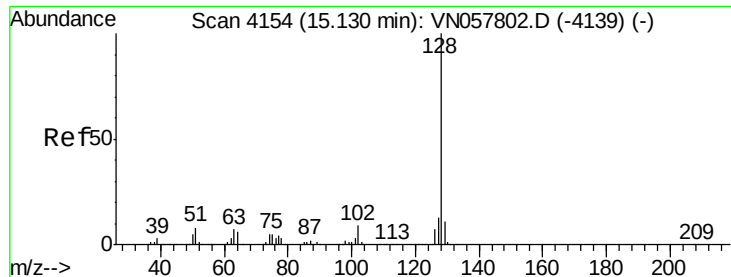
Ion Ratio Lower Upper

75 100

53 0.1 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: VN058122.D

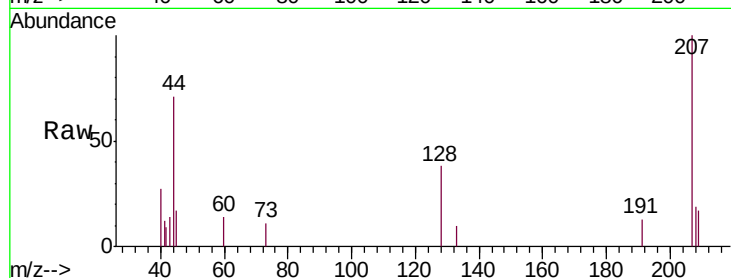
Acq: 16 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-2



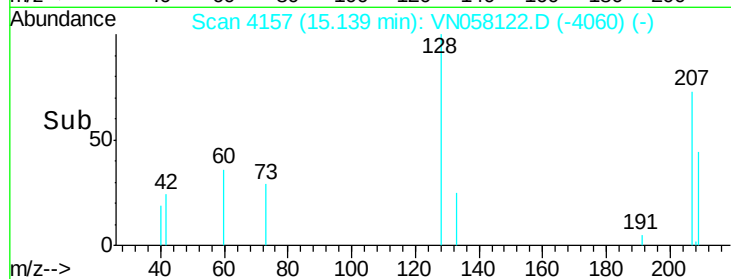
Tgt Ion:128 Resp: 970

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

