

Data File : VN057778.D
Acq On : 8 Sep 2019 1:23
Operator : JC/SP
Sample : K4601-27
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-E2-(2.7)

Quant Time: Sep 08 06:45:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	201006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	313993	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	295588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	151632	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	242691	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
35) Dibromofluoromethane	7.58	113	144248	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
50) Toluene-d8	10.09	98	556408	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
62) 4-Bromofluorobenzene	12.40	95	205029	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	

Target Compounds

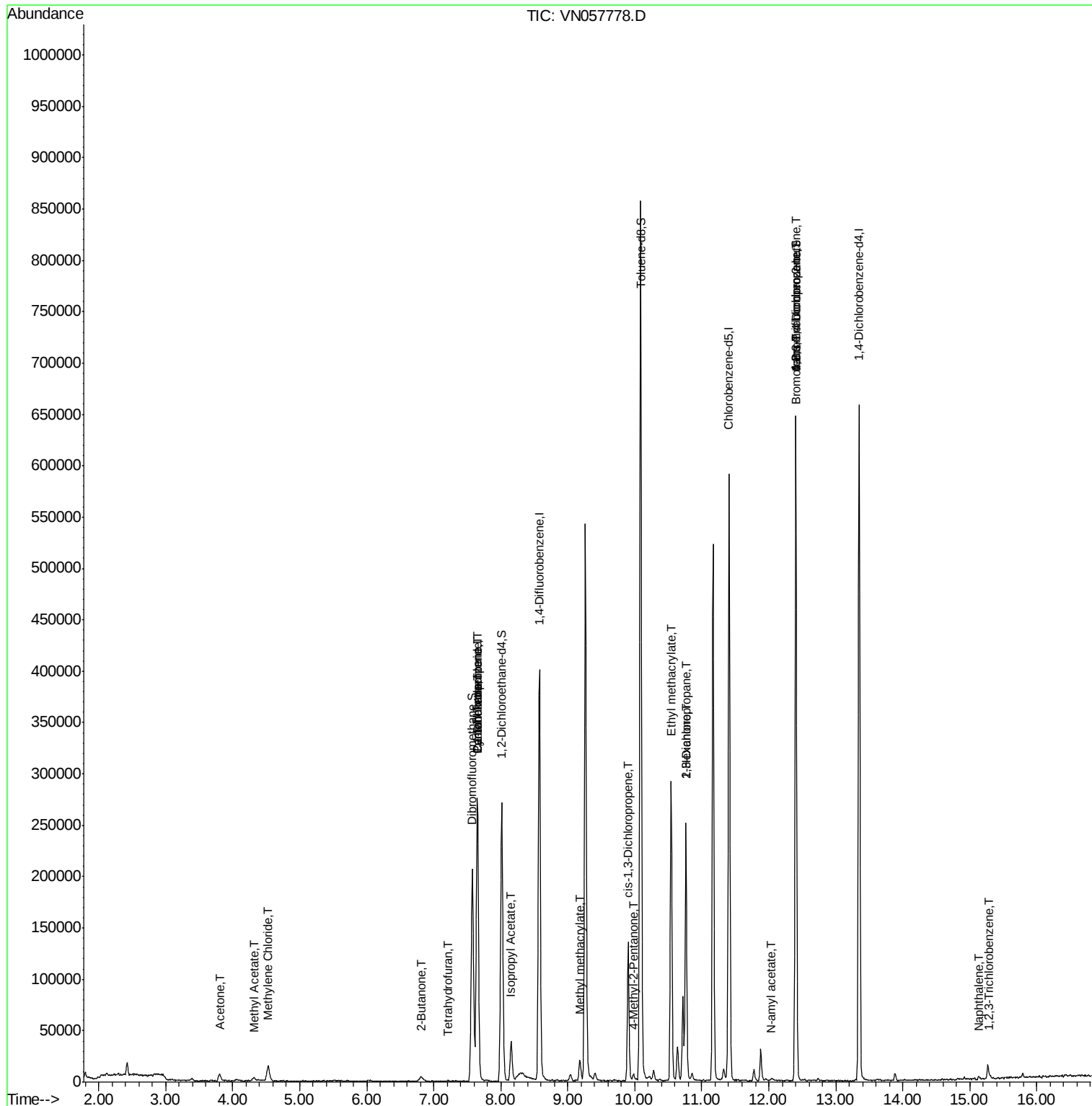
					Qvalue
3) Chloromethane	2.04	50	762	Below Cal	94
16) Acetone	3.81	43	11893	7.903 ug/l	95
18) Methyl Acetate	4.32	43	5184	1.267 ug/l #	73
20) Methylene Chloride	4.53	84	9696	2.980 ug/l #	80
25) 2-Butanone	6.82	43	597	0.277 ug/l #	55
29) Tetrahydrofuran	7.20	42	332	0.239 ug/l #	59
31) Cyclohexane	7.65	56	6605	1.203 ug/l #	27
36) 1,1-Dichloropropene	7.65	75	18802	4.501 ug/l #	47
38) Carbon Tetrachloride	7.65	117	22175	5.544 ug/l #	17
43) Isopropyl Acetate	8.15	43	47156	5.924 ug/l	99
48) Methyl methacrylate	9.18	41	2867	0.700 ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	4041	0.914 ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	19543	4.002 ug/l #	64
56) Ethyl methacrylate	10.54	69	995	0.216 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	2017	0.390 ug/l #	43
59) 2-Hexanone	10.76	43	42413	13.606 ug/l #	59
71) Bromoform	12.39	173	215	3.342 ug/l #	1
74) N-amyl acetate	12.04	43	2196	0.328 ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	121297	34.835 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	121297	108.337 ug/l #	1
95) Naphthalene	15.14	128	2391	0.257 ug/l #	80
96) 1,2,3-Trichlorobenzene	15.30	180	914	0.297 ug/l	78

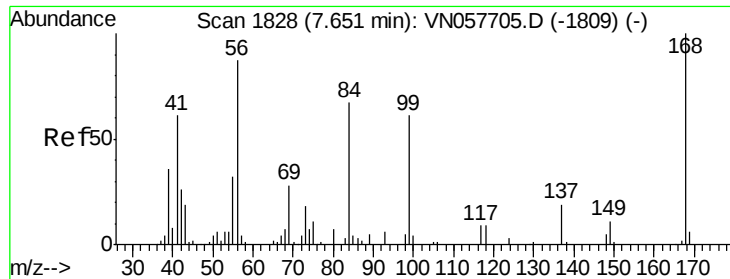
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampleId :

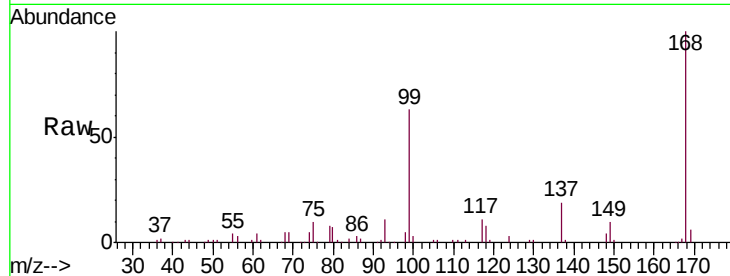
T12-E2-(2.7)

Tgt Ion:168 Resp: 201006

Ion Ratio Lower Upper

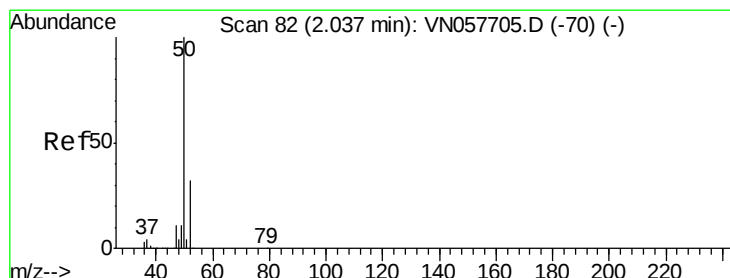
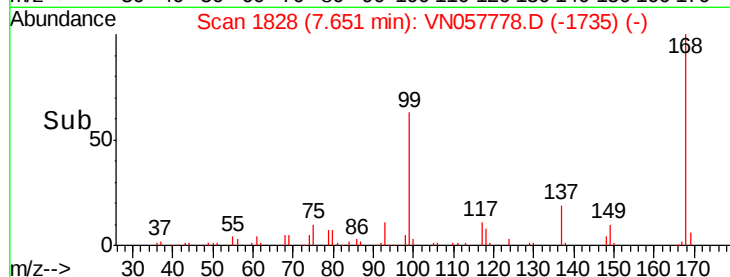
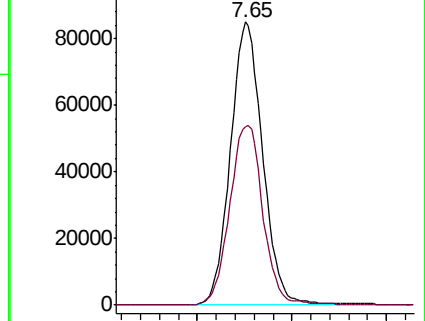
168 100

99 63.0 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057778.D

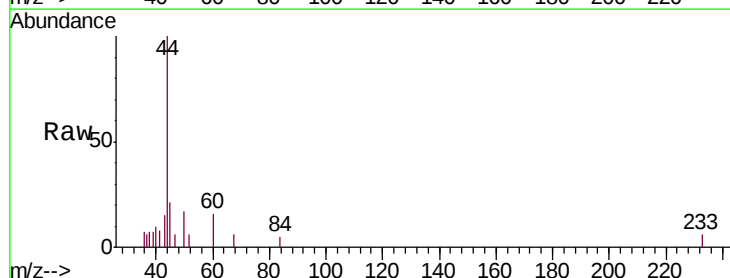
Acq: 8 Sep 2019 1:23

Tgt Ion: 50 Resp: 762

Ion Ratio Lower Upper

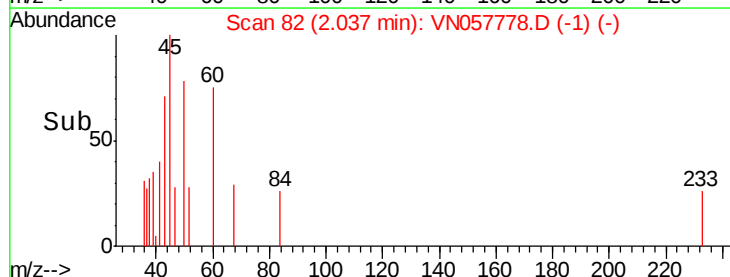
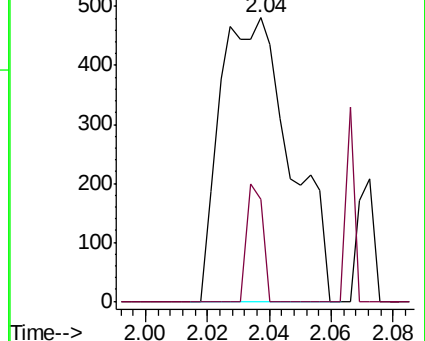
50 100

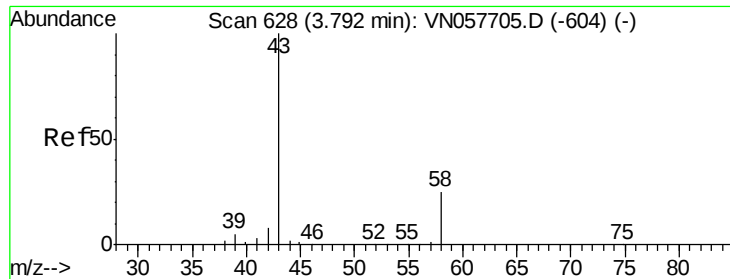
52 36.0 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#16

Acetone

Concen: 7.903 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampled :

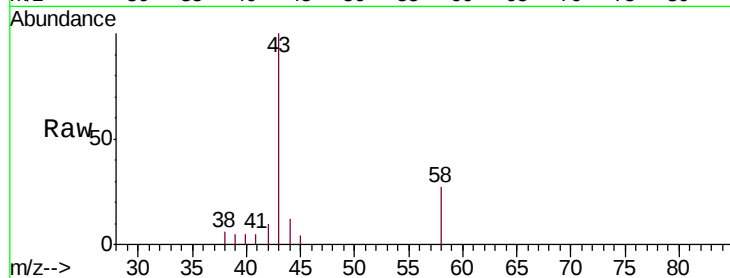
T12-E2-(2.7)

Tgt Ion: 43 Resp: 11893

Ion Ratio Lower Upper

43 100

58 27.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN057778.D (-632) (-)

Ion 58.00 (57.70 to 58.70): VN057778.D (-632) (-)

3.81

4000

3000

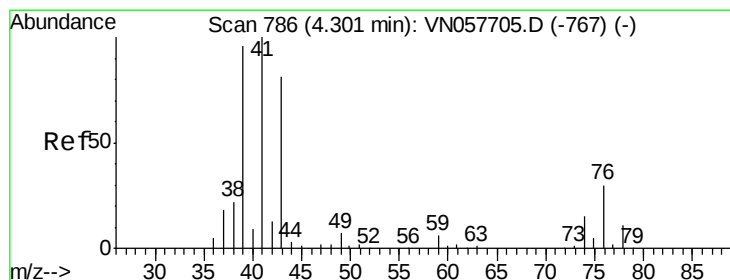
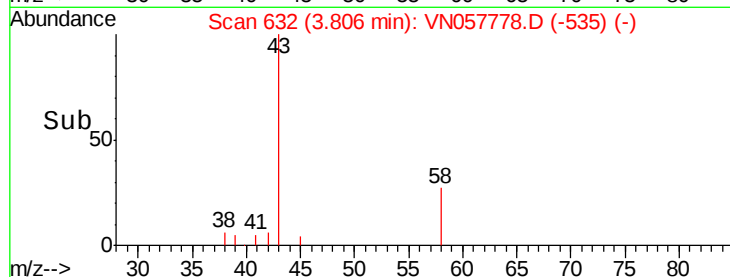
2000

1000

0

Time-->

3.70 3.75 3.80 3.85



#18

Methyl Acetate

Concen: 1.267 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN057778.D

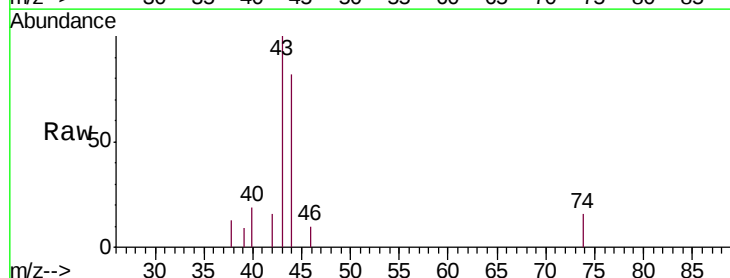
Acq: 8 Sep 2019 1:23

Tgt Ion: 43 Resp: 5184

Ion Ratio Lower Upper

43 100

74 7.0 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057778.D (-791) (-)

Ion 74.00 (73.70 to 74.70): VN057778.D (-791) (-)

4.32

2000

1500

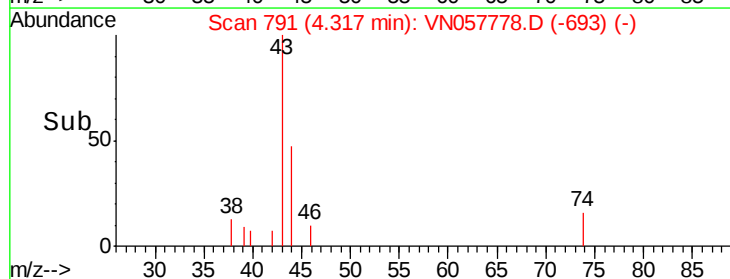
1000

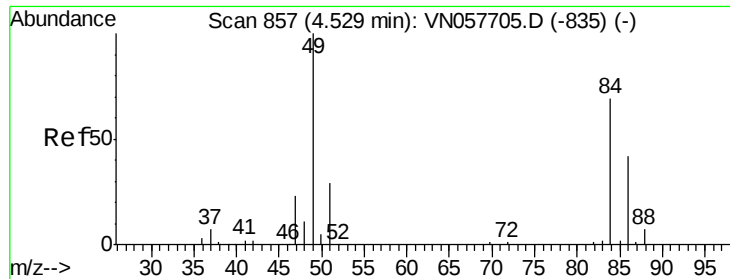
500

0

Time-->

4.25 4.30 4.35

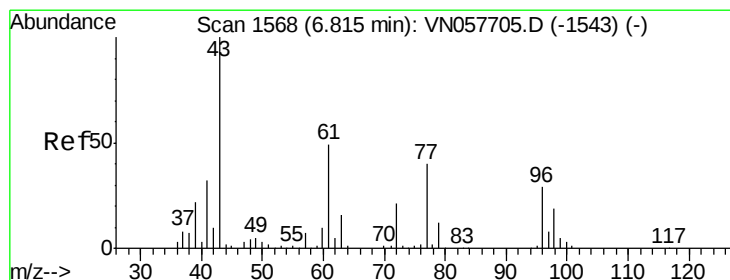
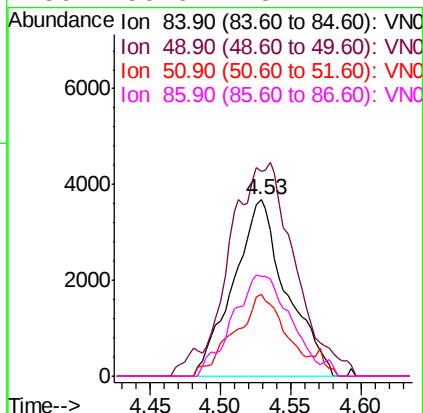
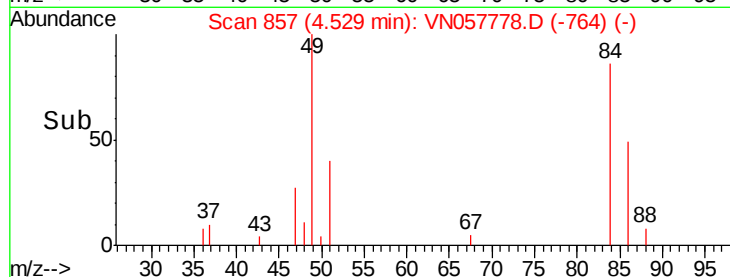
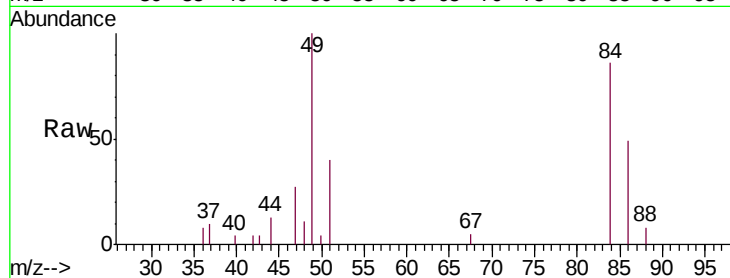




#20
Methylene Chloride
Concen: 2.980 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

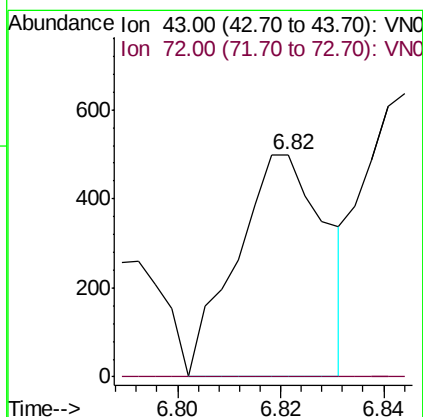
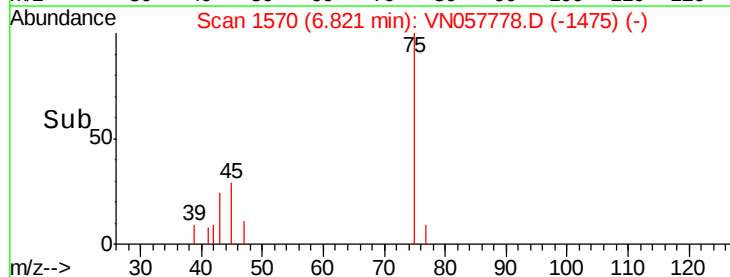
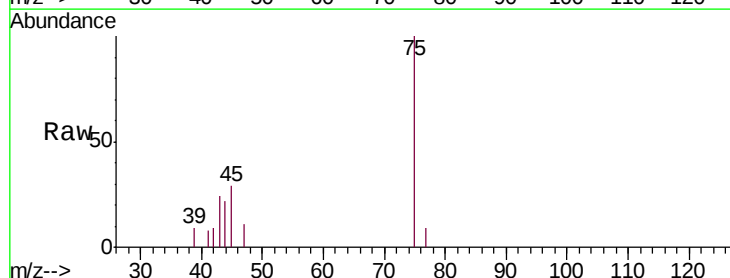
Instrument :
MSVOA_N
ClientSampled :
T12-E2-(2.7)

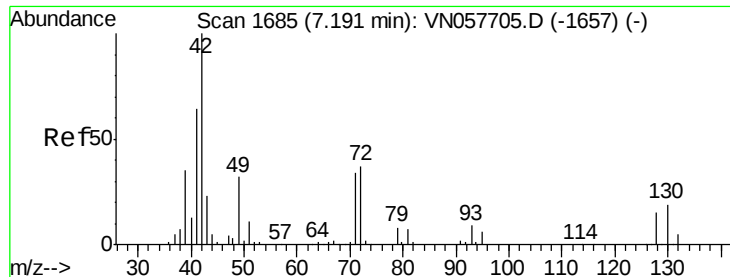
Tgt Ion: 84 Resp: 9696
Ion Ratio Lower Upper
84 100
49 106.3 115.0 172.6#
51 46.2 33.8 50.8
86 56.6 48.2 72.2



#25
2-Butanone
Concen: 0.277 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Tgt Ion: 43 Resp: 597
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#





#29

Tetrahydrofuran

Concen: 0.239 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampleId :

T12-E2-(2.7)

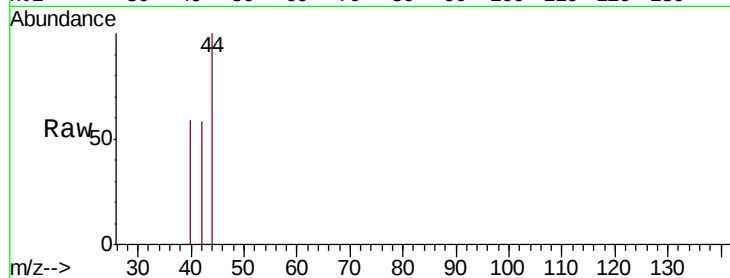
Tgt Ion: 42 Resp: 332

Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

71 23.5 27.0 40.4#



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

7.20

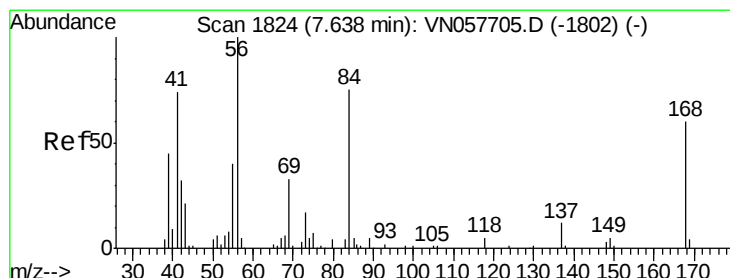
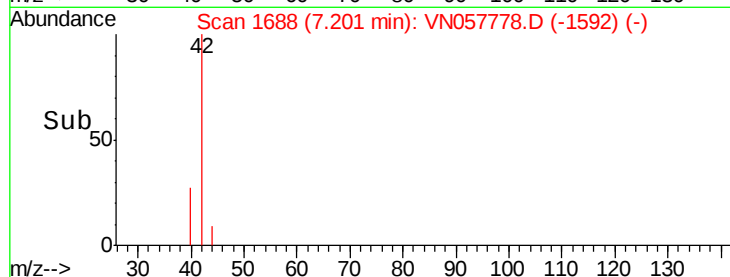
200

100

0

7.18 7.20 7.22

Time-->



#31

Cyclohexane

Concen: 1.203 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

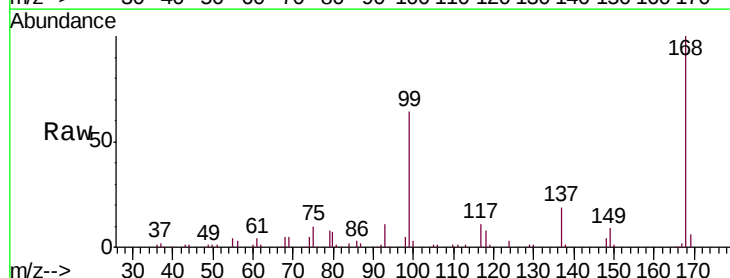
Tgt Ion: 56 Resp: 6605

Ion Ratio Lower Upper

56 100

69 139.4 26.2 39.2#

84 56.3 59.8 89.8#



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

7.65

4000

3000

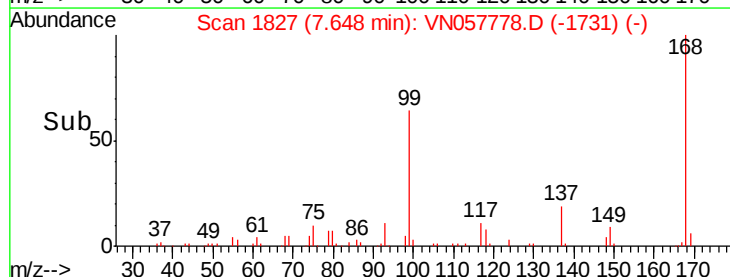
2000

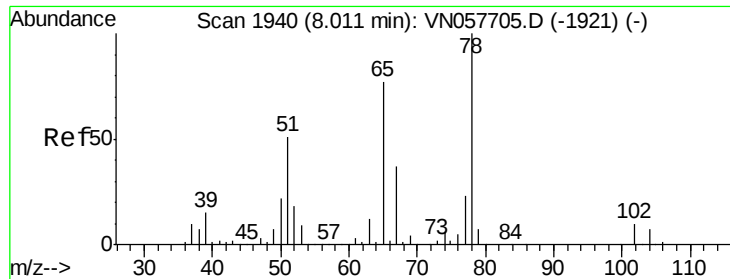
1000

0

7.60 7.65 7.70

Time-->

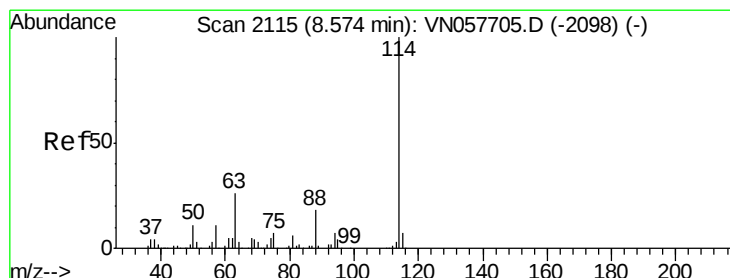
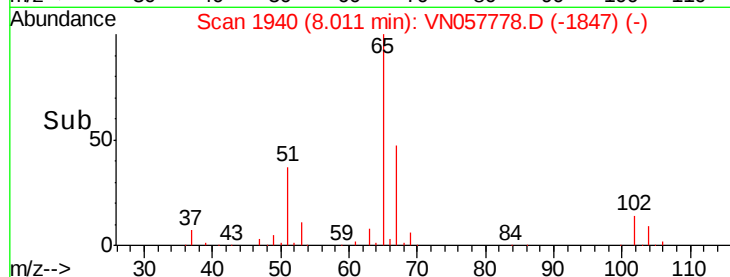
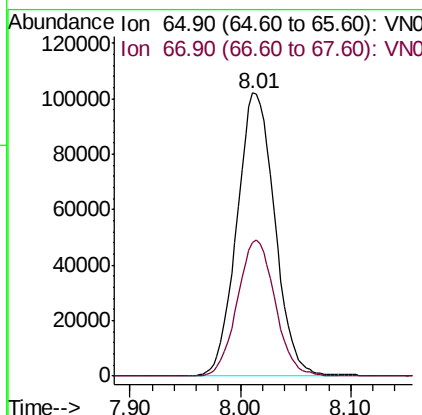
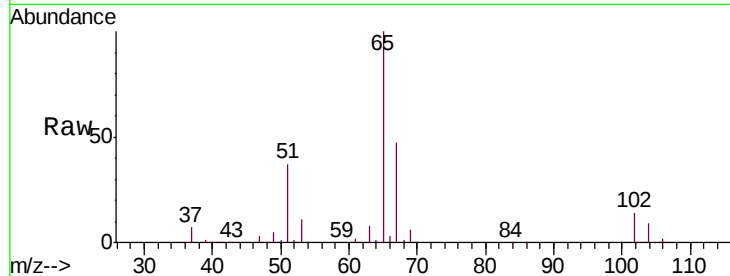




#33
 1,2-Dichloroethane-d4
 Concen: 49.631 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN057778.D
 Acq: 8 Sep 2019 1:23

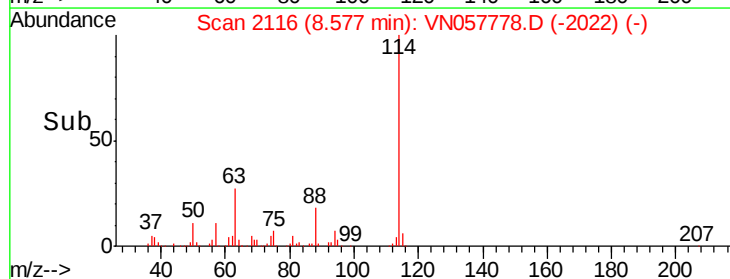
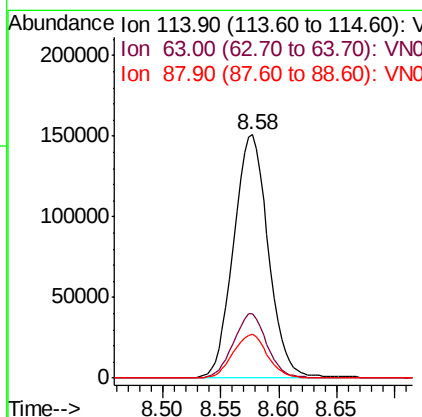
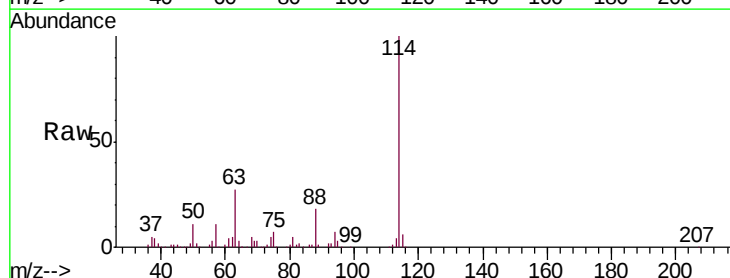
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E2-(2.7)

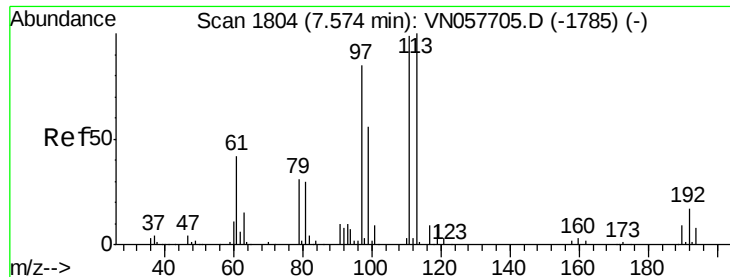
Tgt Ion: 65 Resp: 242691
 Ion Ratio Lower Upper
 65 100
 67 48.0 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057778.D
 Acq: 8 Sep 2019 1:23

Tgt Ion: 114 Resp: 313993
 Ion Ratio Lower Upper
 114 100
 63 26.6 0.0 52.4
 88 17.8 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.436 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampleId :

T12-E2-(2.7)

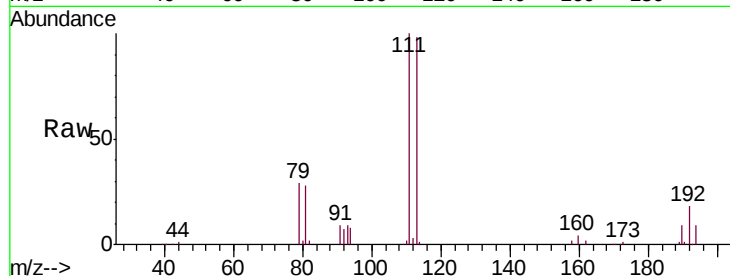
Tgt Ion:113 Resp: 144248

Ion Ratio Lower Upper

113 100

111 103.6 82.7 124.1

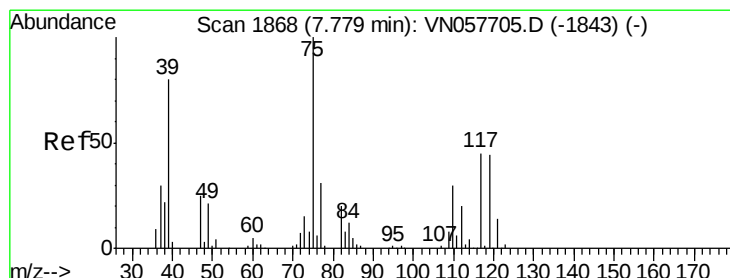
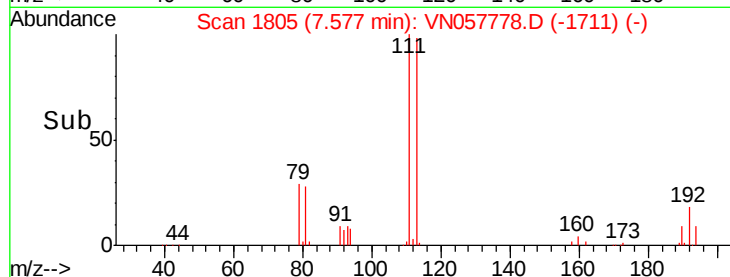
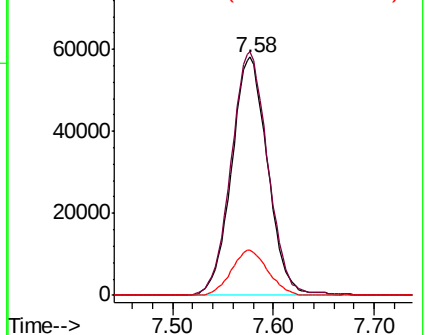
192 19.2 13.8 20.6



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: 4.501 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

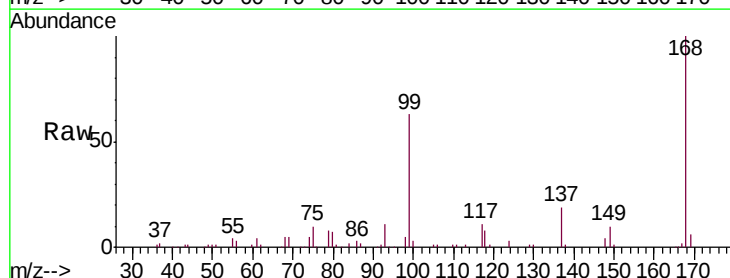
Tgt Ion: 75 Resp: 18802

Ion Ratio Lower Upper

75 100

110 3.2 15.0 45.0#

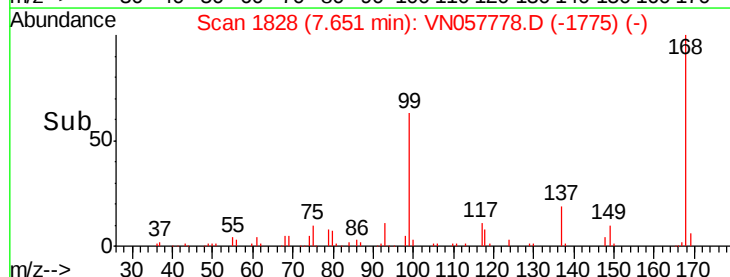
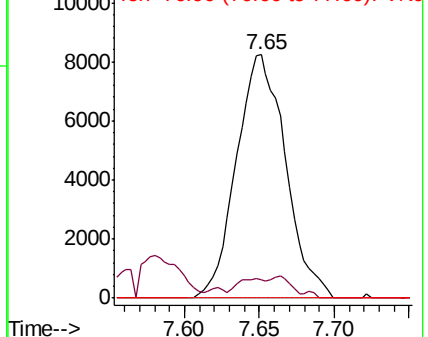
77 0.0 24.6 37.0#

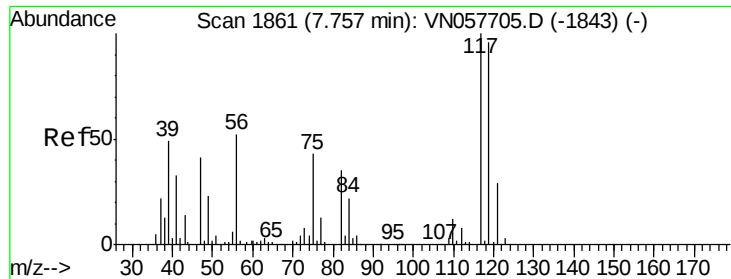


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.544 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampleId :

T12-E2-(2.7)

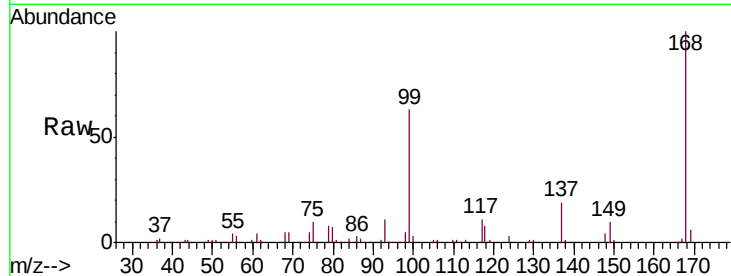
Tgt Ion:117 Resp: 22175

Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

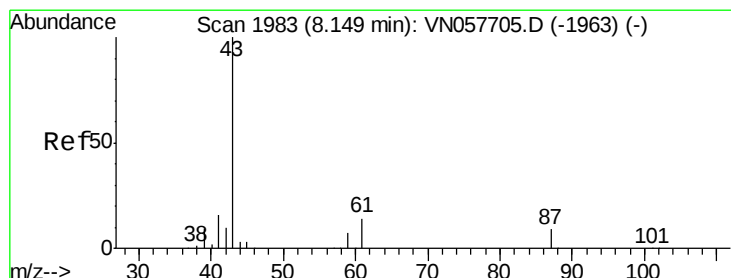
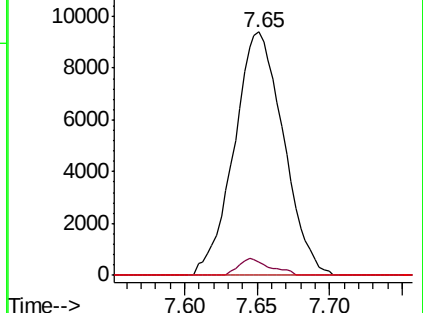
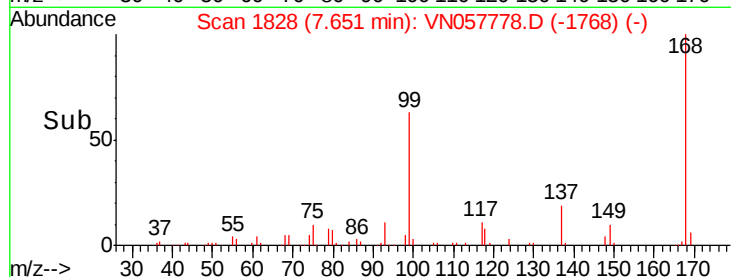
121 0.0 23.4 35.2#



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: 5.924 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

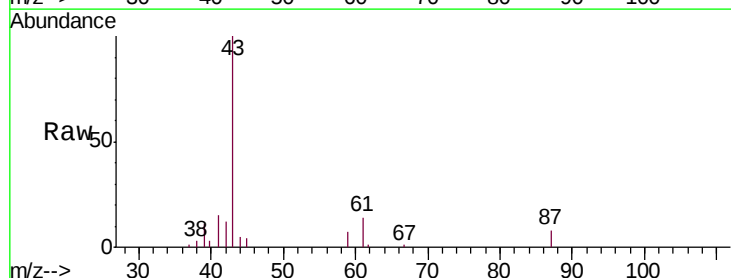
Tgt Ion: 43 Resp: 47156

Ion Ratio Lower Upper

43 100

61 15.5 12.8 19.2

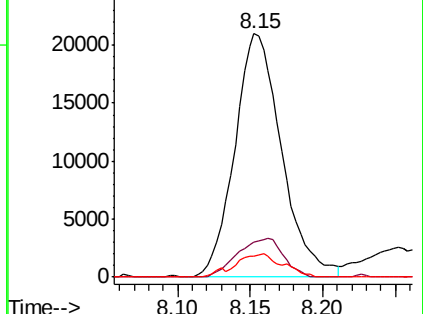
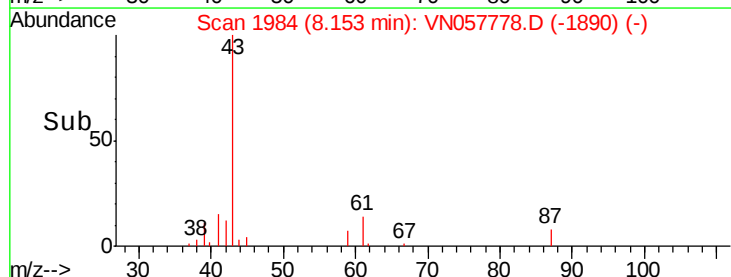
87 9.6 7.8 11.8

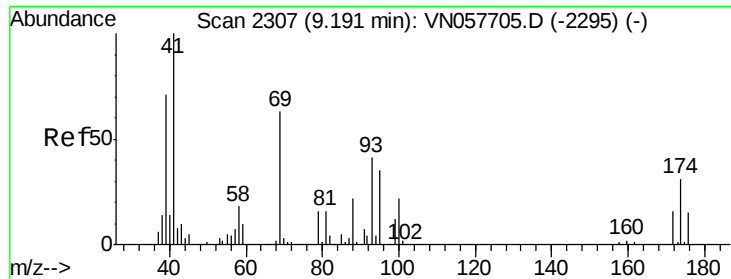


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

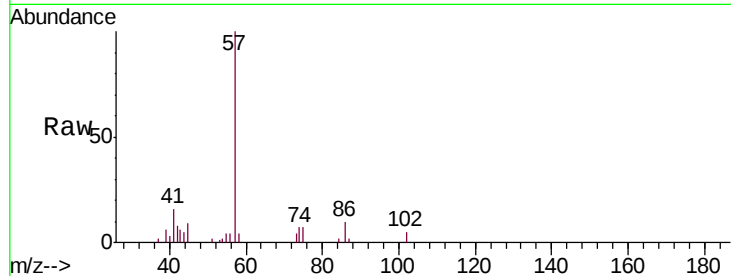




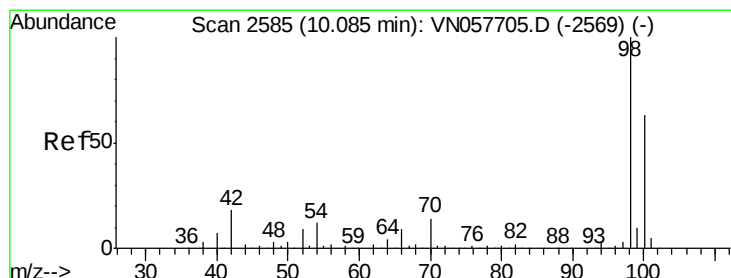
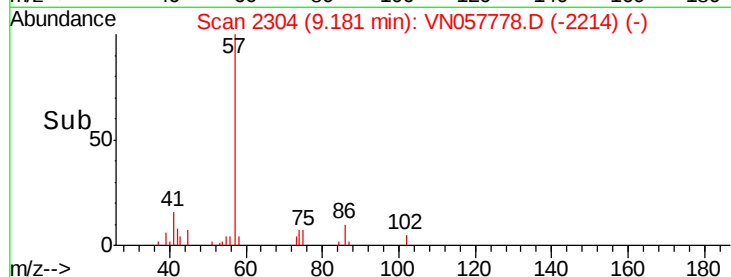
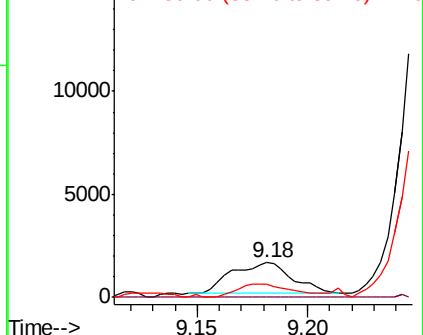
#48
Methyl methacrylate
Concen: 0.700 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Instrument :
MSVOA_N
ClientSampleId :
T12-E2-(2.7)

Tgt Ion: 41 Resp: 2867
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#

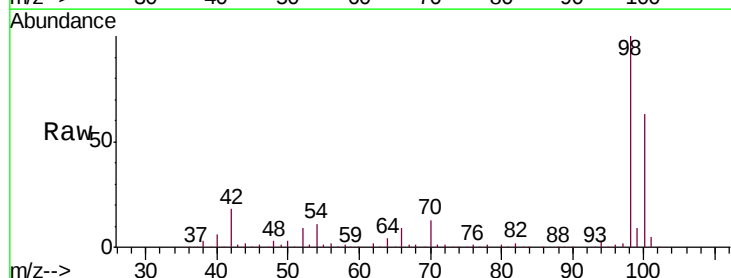


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

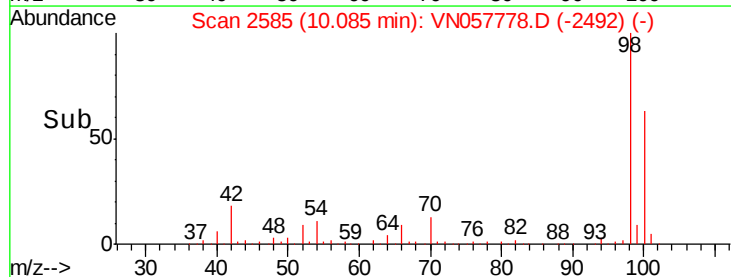
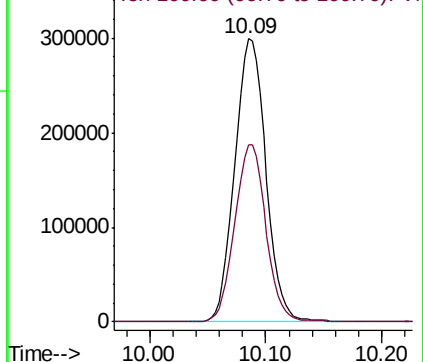


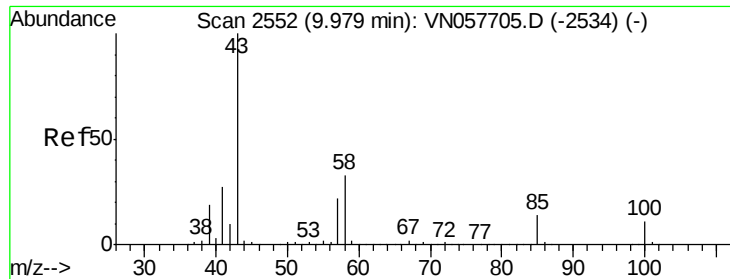
#50
Toluene-d8
Concen: 52.591 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Tgt Ion: 98 Resp: 556408
Ion Ratio Lower Upper
98 100
100 62.8 50.7 76.1



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: 0.914 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampleId :

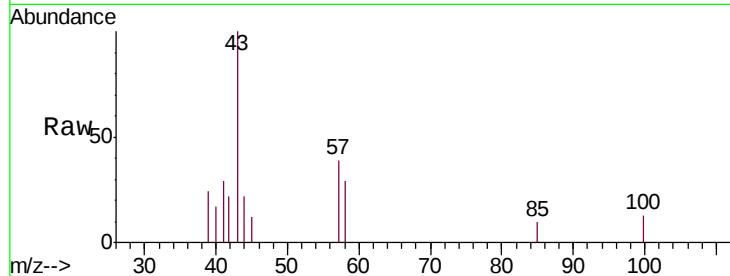
T12-E2-(2.7)

Tgt Ion: 43 Resp: 4041

Ion Ratio Lower Upper

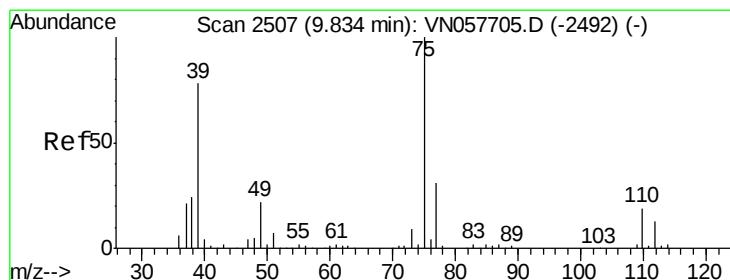
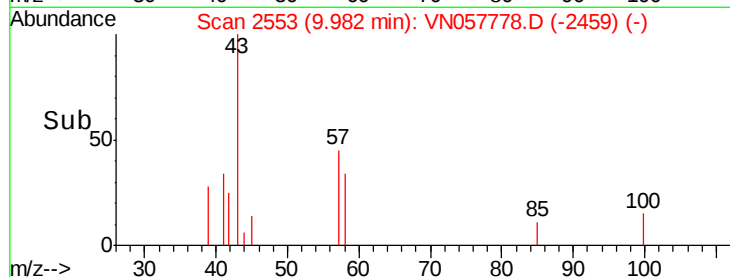
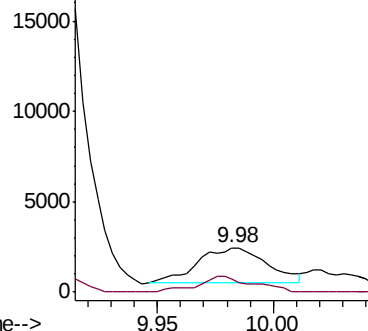
43 100

58 36.0 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#54

cis-1,3-Dichloropropene

Concen: 4.002 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

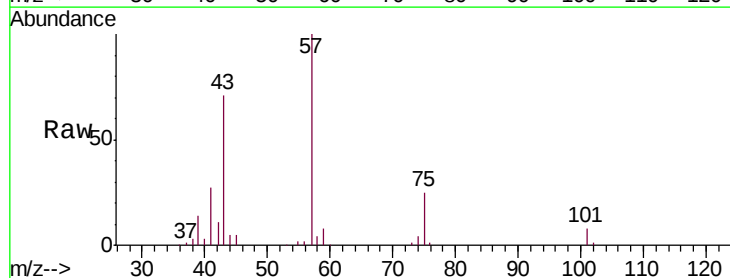
Tgt Ion: 75 Resp: 19543

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

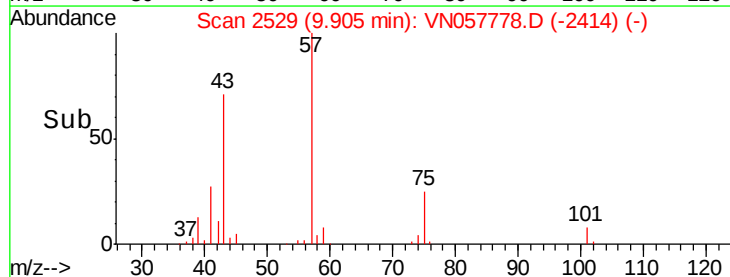
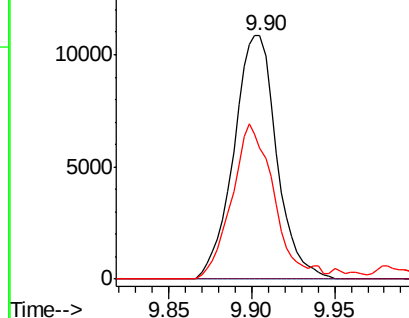
39 53.6 62.4 93.6#

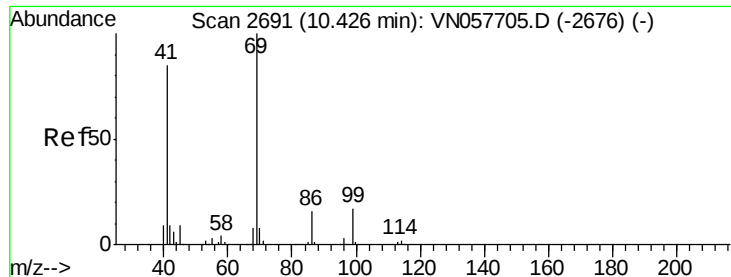


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO





#56

Ethyl methacrylate

Concen: 0.216 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampleId :

T12-E2-(2.7)

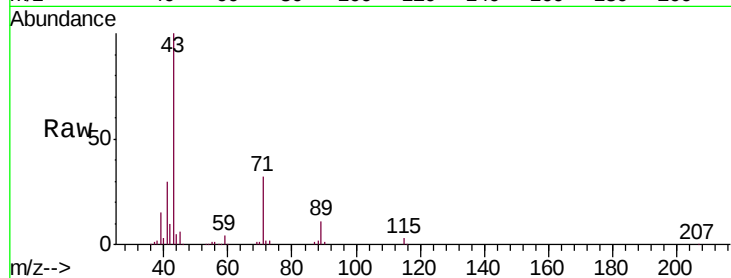
Tgt Ion: 69 Resp: 995

Ion Ratio Lower Upper

69 100

41 6606.2 69.0 103.4#

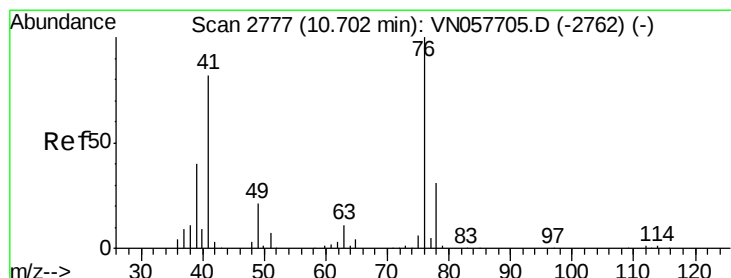
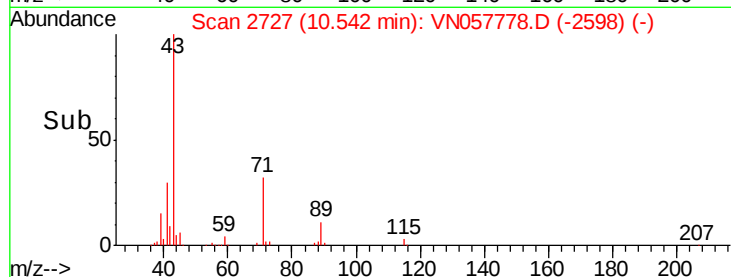
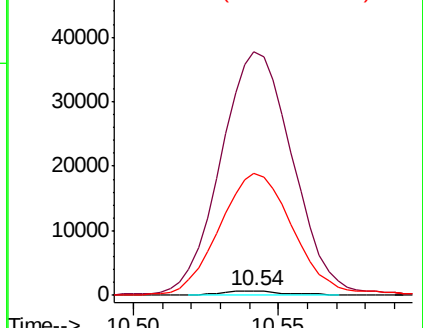
39 3383.5 49.2 73.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.390 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.05 min

Lab File: VN057778.D

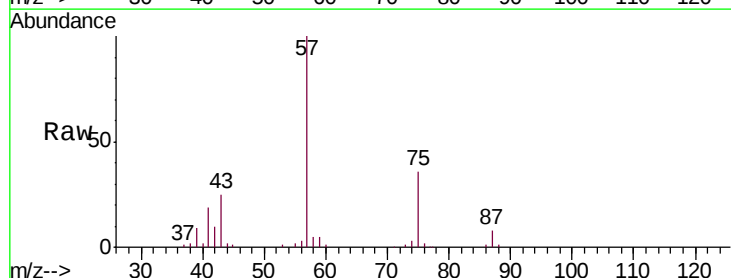
Acq: 8 Sep 2019 1:23

Tgt Ion: 76 Resp: 2017

Ion Ratio Lower Upper

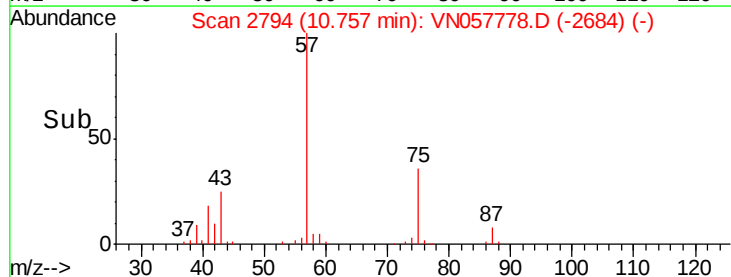
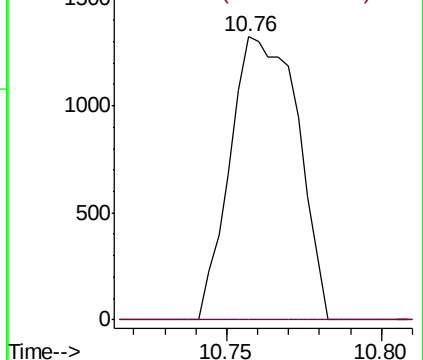
76 100

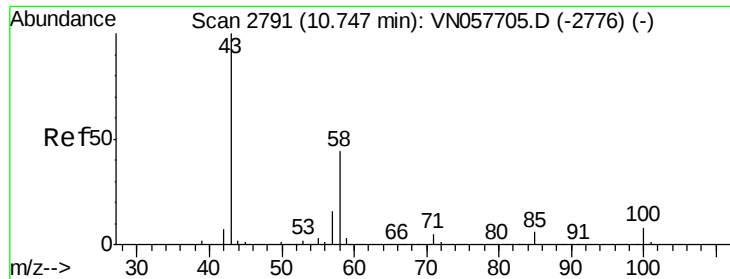
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

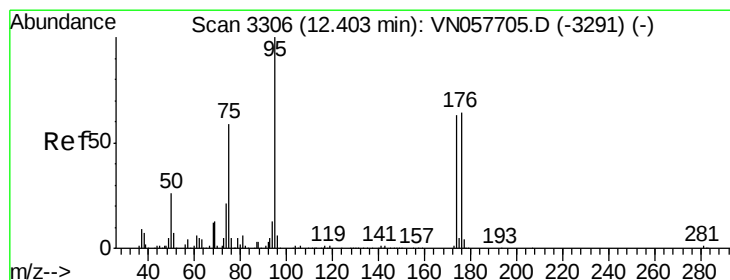
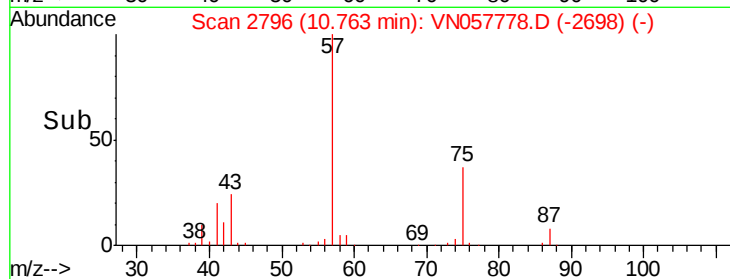
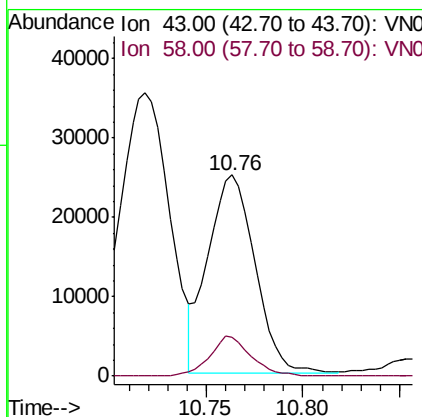
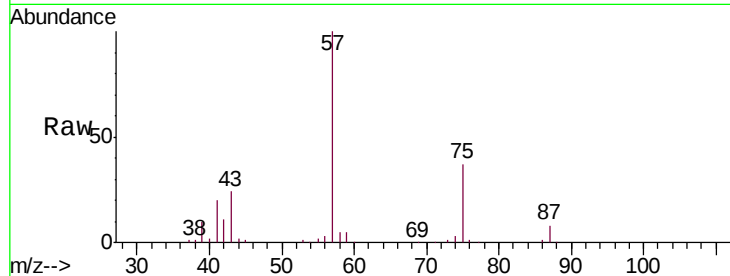




#59
2-Hexanone
Concen: 13.606 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

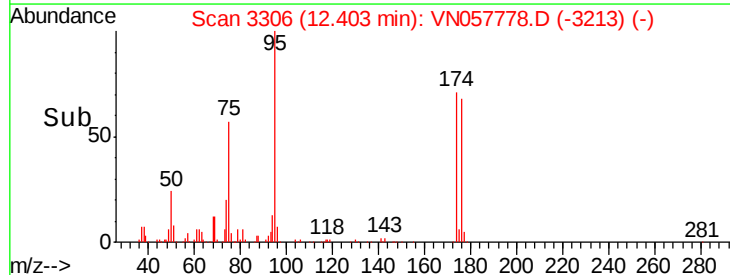
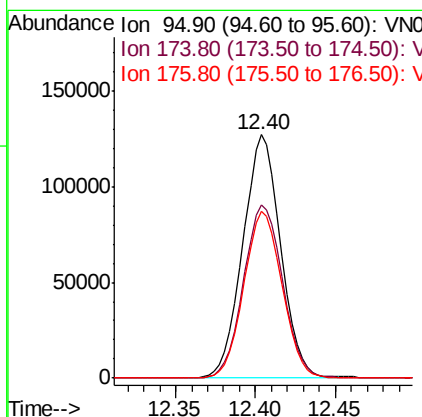
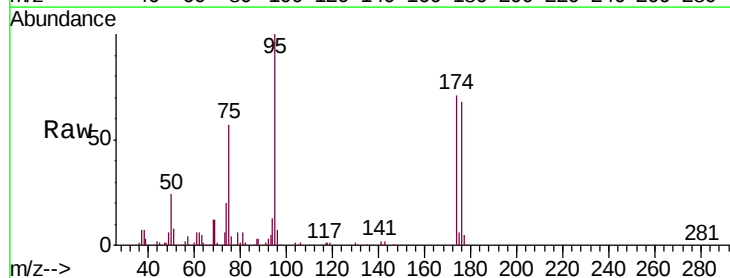
Instrument :
MSVOA_N
ClientSampled :
T12-E2-(2.7)

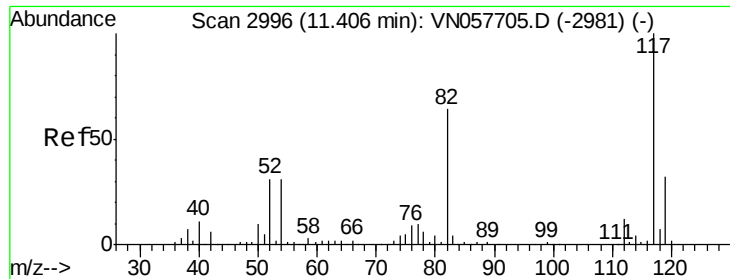
Tgt Ion: 43 Resp: 42413
Ion Ratio Lower Upper
43 100
58 17.6 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 46.657 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Tgt Ion: 95 Resp: 205029
Ion Ratio Lower Upper
95 100
174 74.0 0.0 128.0
176 69.5 0.0 128.0

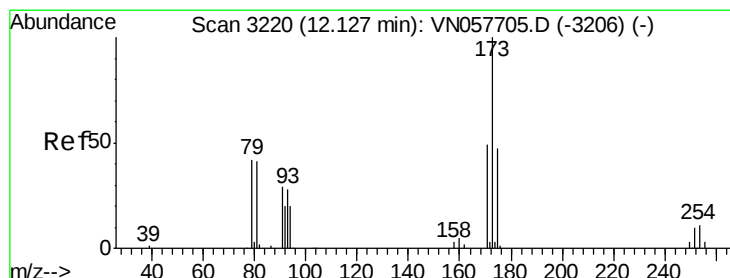
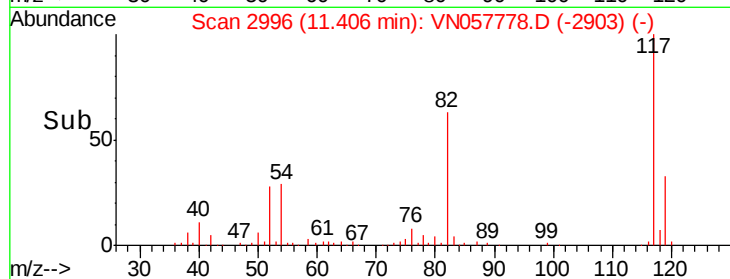
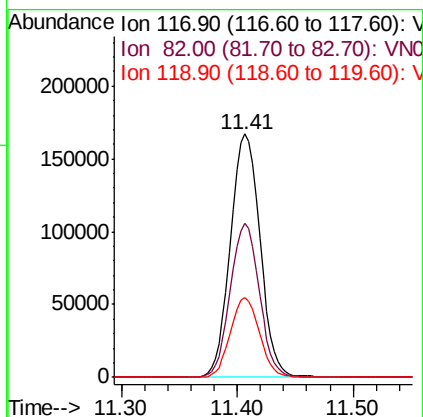
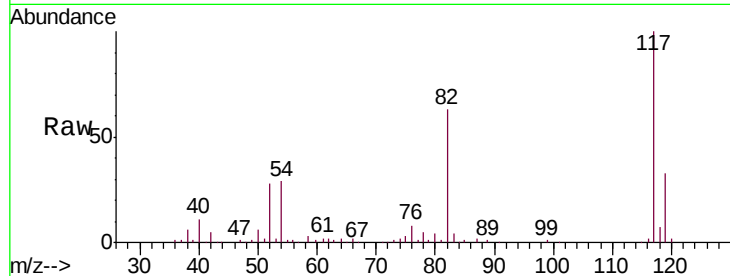




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

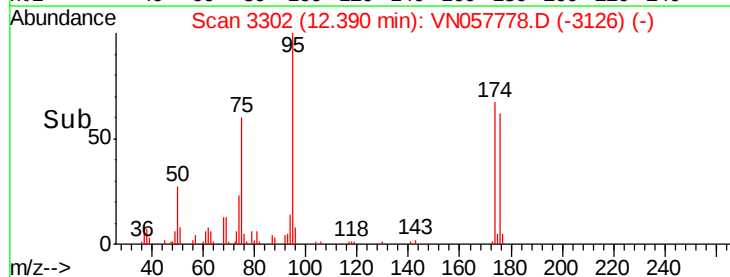
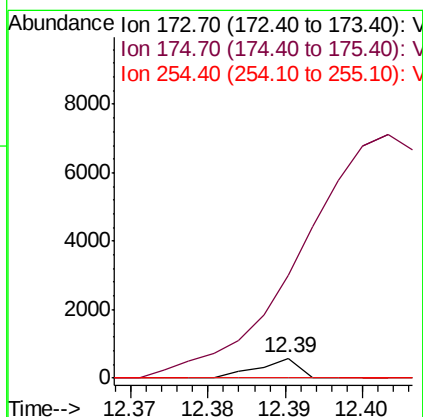
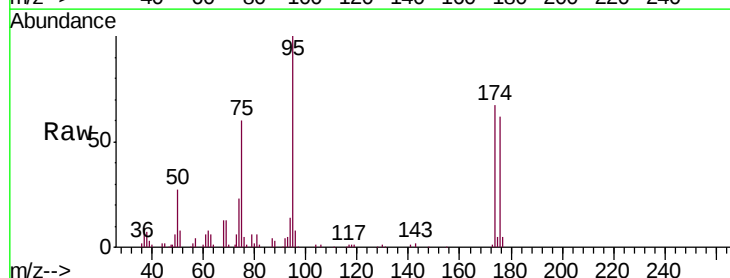
Instrument :
MSVOA_N
ClientSampled :
T12-E2-(2.7)

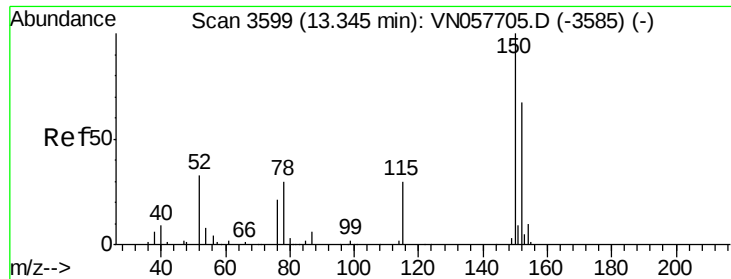
Tgt Ion:117 Resp: 295588
Ion Ratio Lower Upper
117 100
82 63.3 51.4 77.0
119 32.6 25.4 38.2



#71
Bromoform
Concen: 3.342 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Tgt Ion:173 Resp: 215
Ion Ratio Lower Upper
173 100
175 4381.4 24.6 73.8#
254 0.0 0.0 0.0

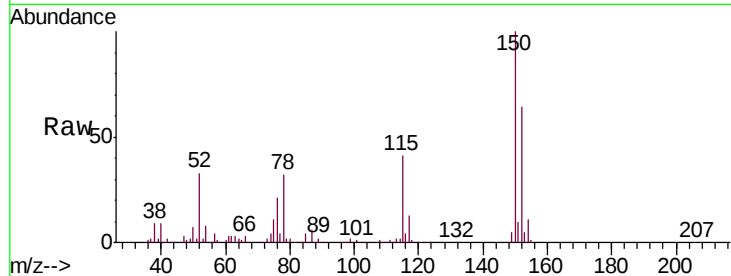




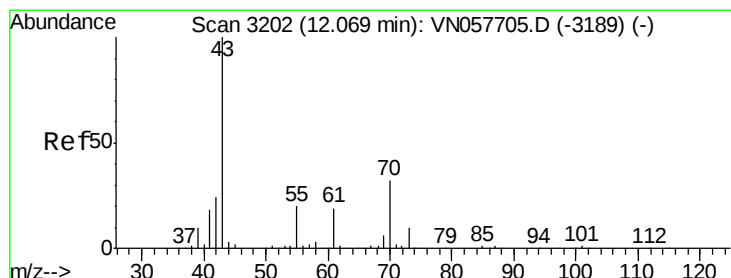
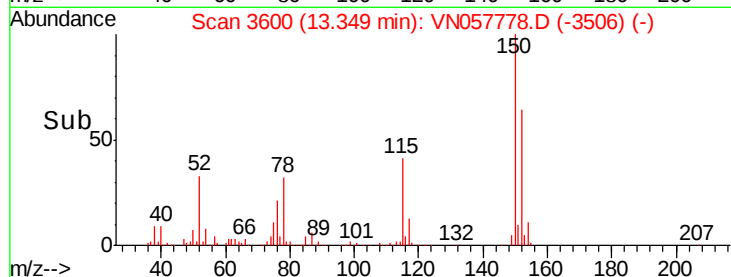
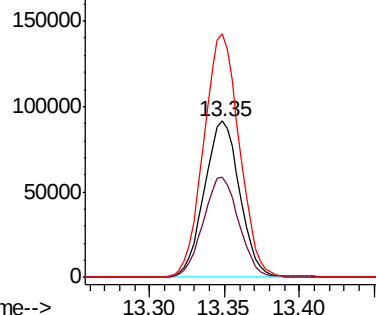
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057778.D
 Acq: 8 Sep 2019 1:23

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E2-(2.7)

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.2	33.8	101.3
150	156.5	0.0	345.4

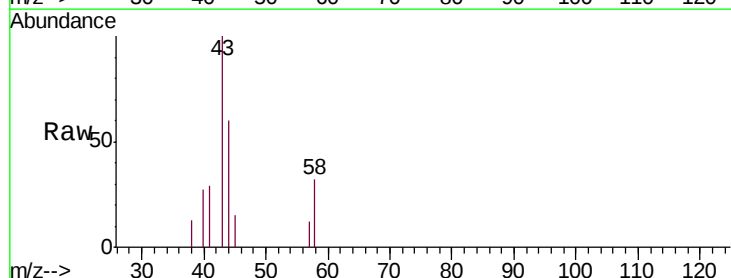


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

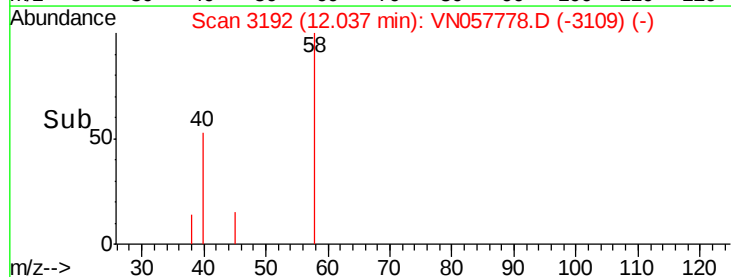
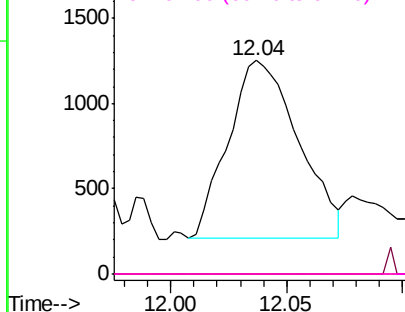


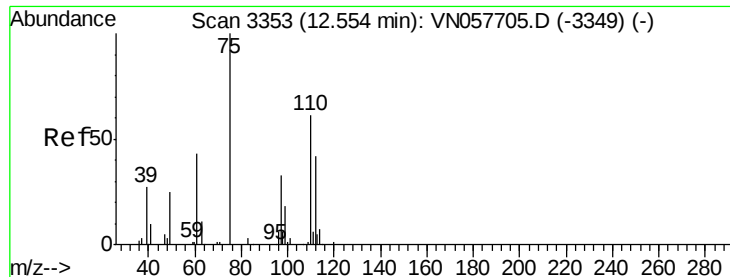
#74
 N-ethyl acetate
 Concen: 0.328 ug/l
 RT: 12.04 min Scan# 3192
 Delta R.T. -0.03 min
 Lab File: VN057778.D
 Acq: 8 Sep 2019 1:23

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	26.1	39.1#
55	0.0	16.3	24.5#
61	0.0	15.0	22.4#



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: 34.835 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

Instrument :

MSVOA_N

ClientSampled :

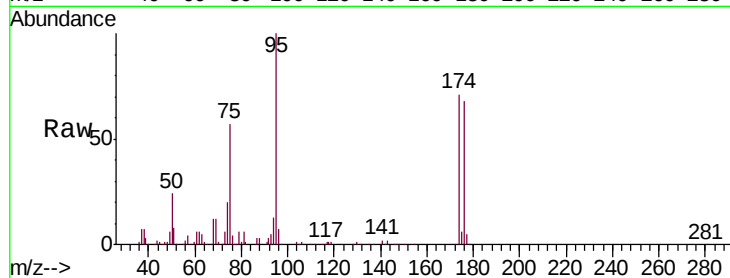
T12-E2-(2.7)

Tgt Ion: 75 Resp: 121297

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

60000

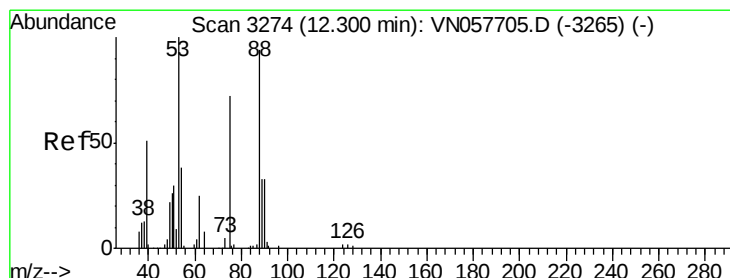
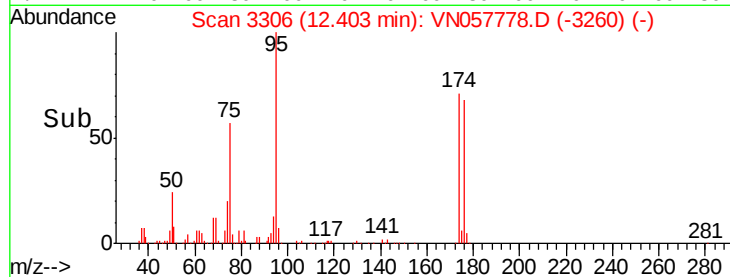
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 108.337 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057778.D

Acq: 8 Sep 2019 1:23

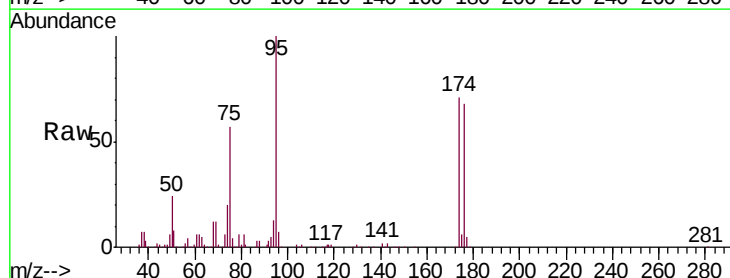
Tgt Ion: 75 Resp: 121297

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#



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

12.40

100000

80000

60000

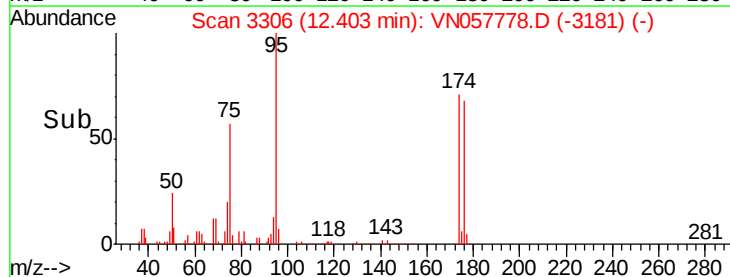
40000

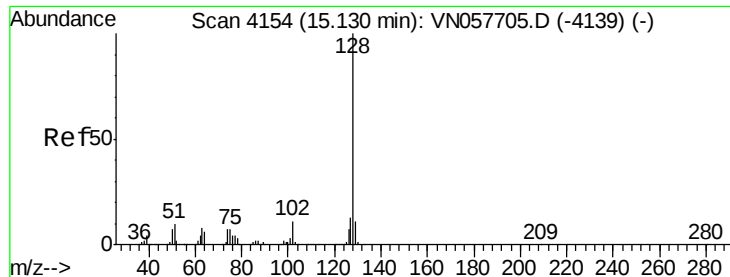
20000

0

12.35 12.40 12.45

Time-->

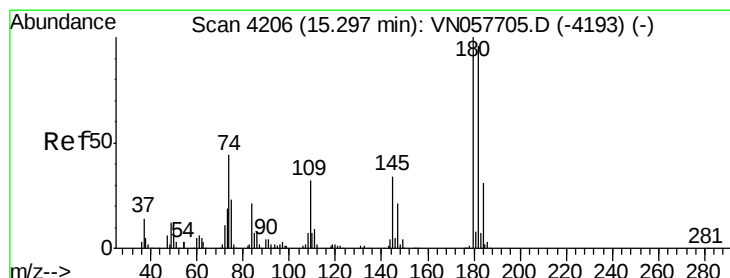
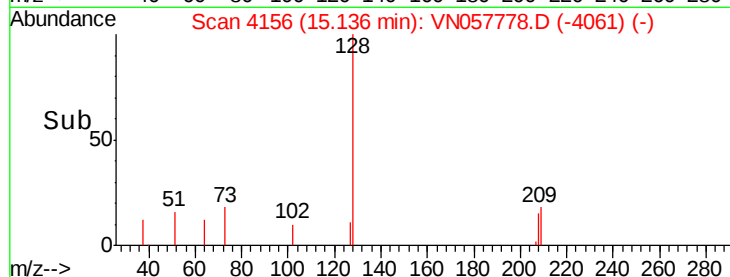
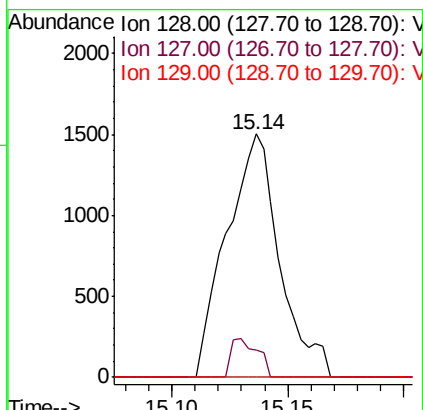
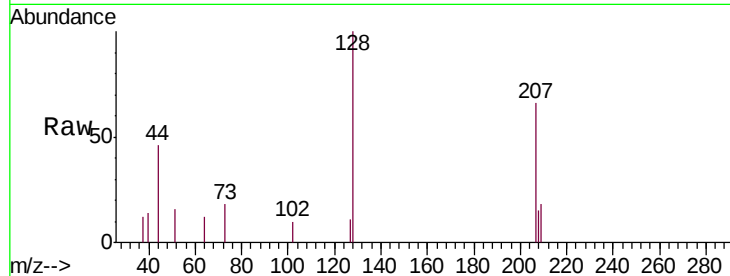




#95
Naphthalene
Concen: 0.257 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Instrument :
MSVOA_N
ClientSampleId :
T12-E2-(2.7)

Tgt Ion:128 Resp: 2391
Ion Ratio Lower Upper
128 100
127 7.9 10.6 15.8#
129 0.0 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 0.297 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN057778.D
Acq: 8 Sep 2019 1:23

Tgt Ion:180 Resp: 914
Ion Ratio Lower Upper
180 100
182 74.6 47.0 141.2
145 19.1 17.5 52.6

