

Data File : VN057758.D
Acq On : 7 Sep 2019 16:57
Operator : JC/SP
Sample : K4581-29
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-C4-(3.5)

Quant Time: Sep 08 06:36:52 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	200833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	323301	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	293480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	150644	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	239126	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	
35) Dibromofluoromethane	7.57	113	142645	48.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.88%	
50) Toluene-d8	10.08	98	560336	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.40	95	203609	45.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.00%	

Target Compounds

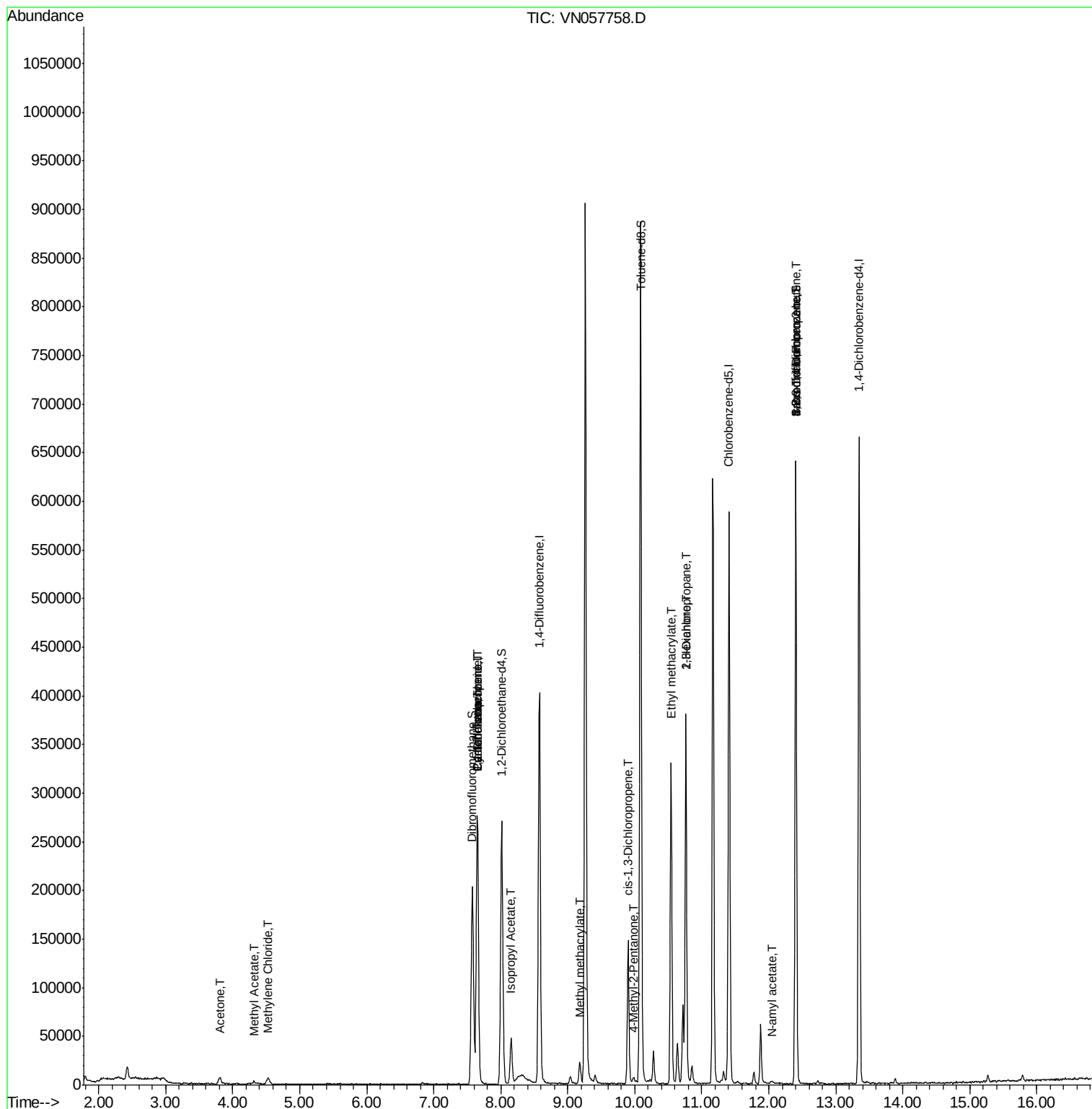
					Qvalue
3) Chloromethane	2.03	50	984	Below Cal	96
16) Acetone	3.81	43	11387	7.574 ug/l	91
18) Methyl Acetate	4.31	43	4169	1.020 ug/l #	77
20) Methylene Chloride	4.53	84	4375	1.346 ug/l #	91
31) Cyclohexane	7.65	56	6582	1.200 ug/l #	45
36) 1,1-Dichloropropene	7.64	75	19097	4.440 ug/l #	51
38) Carbon Tetrachloride	7.65	117	23116	5.613 ug/l #	16
43) Isopropyl Acetate	8.16	43	57933	7.069 ug/l	99
48) Methyl methacrylate	9.18	41	4215	1.000 ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	5508	1.210 ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	22394	4.454 ug/l #	56
56) Ethyl methacrylate	10.54	69	1151	0.243 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4061	0.762 ug/l #	43
59) 2-Hexanone	10.76	43	63407	19.755 ug/l #	59
71) Bromoform	12.39	173	734	3.587 ug/l #	1
74) N-amyl acetate	12.04	43	1645	0.247 ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	120742	34.903 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	120742	108.549 ug/l #	1

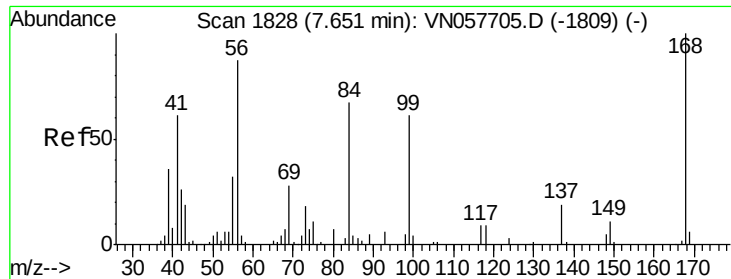
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

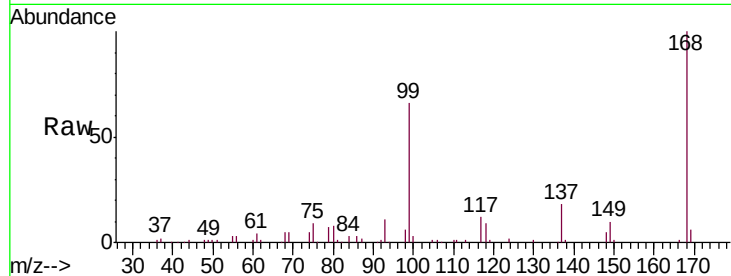
T12-C4-(3.5)

Tgt Ion:168 Resp: 200833

Ion Ratio Lower Upper

168 100

99 66.3 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

80000

60000

40000

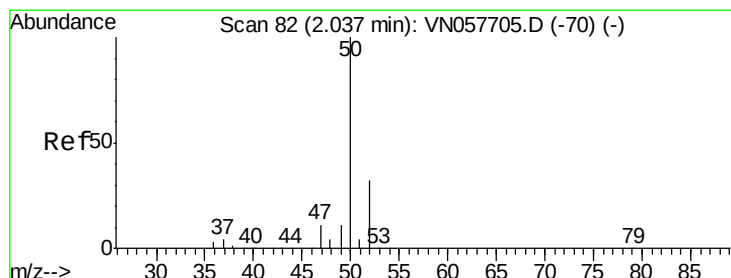
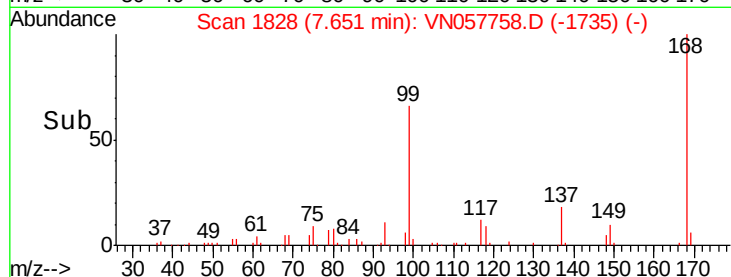
20000

0

Time-->

7.60

7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057758.D

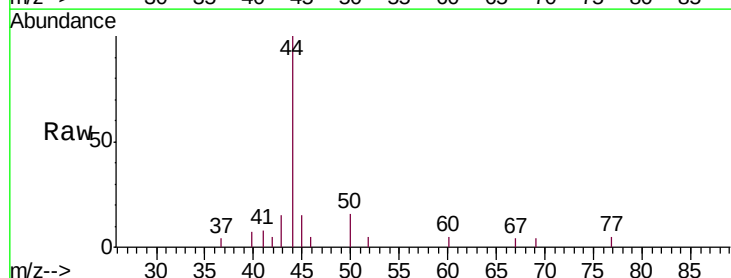
Acq: 7 Sep 2019 16:57

Tgt Ion: 50 Resp: 984

Ion Ratio Lower Upper

50 100

52 30.4 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

600

400

200

0

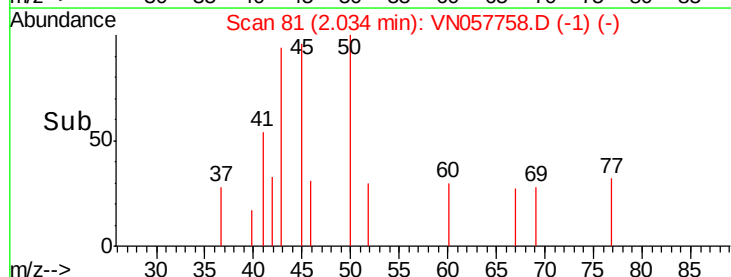
Time-->

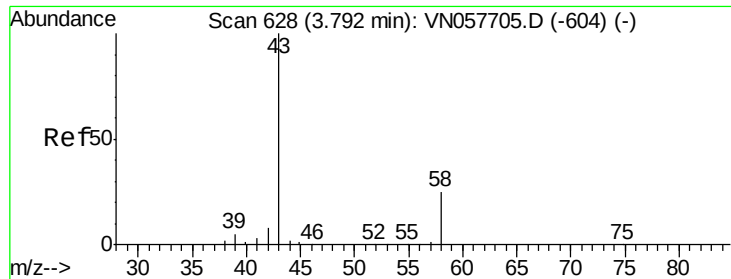
2.00

2.02

2.04

2.06





#16

Acetone

Concen: 7.574 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

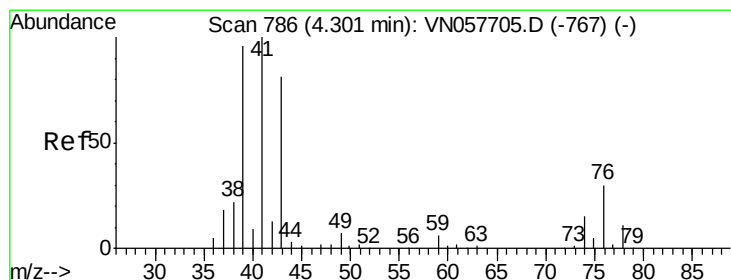
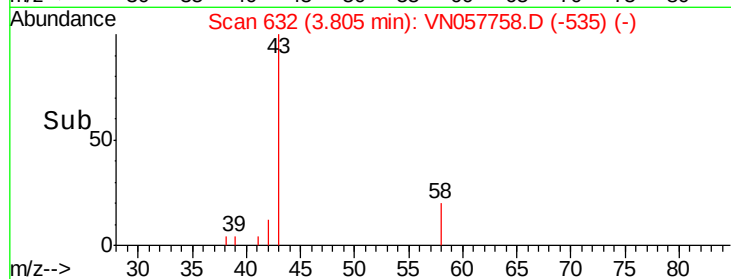
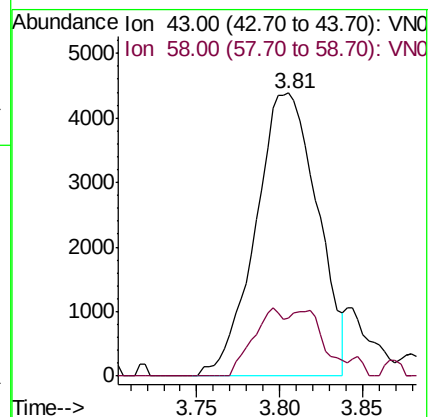
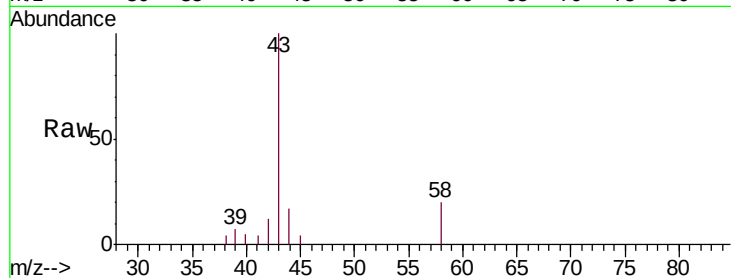
T12-C4-(3.5)

Tgt Ion: 43 Resp: 11387

Ion Ratio Lower Upper

43 100

58 20.5 19.8 29.8



#18

Methyl Acetate

Concen: 1.020 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN057758.D

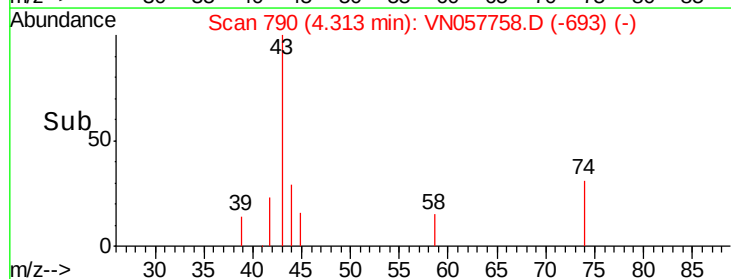
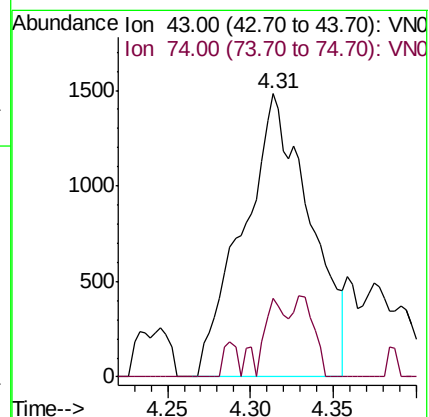
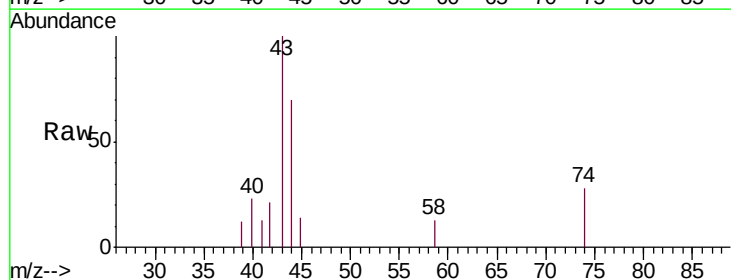
Acq: 7 Sep 2019 16:57

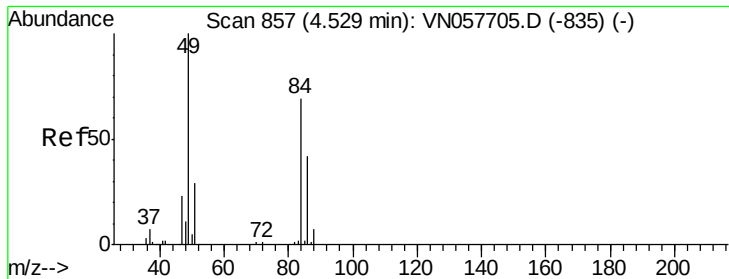
Tgt Ion: 43 Resp: 4169

Ion Ratio Lower Upper

43 100

74 8.9 15.3 22.9#

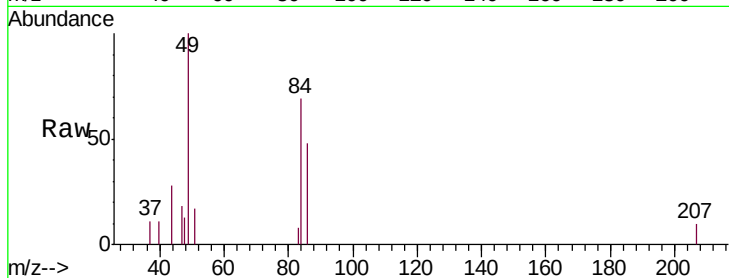




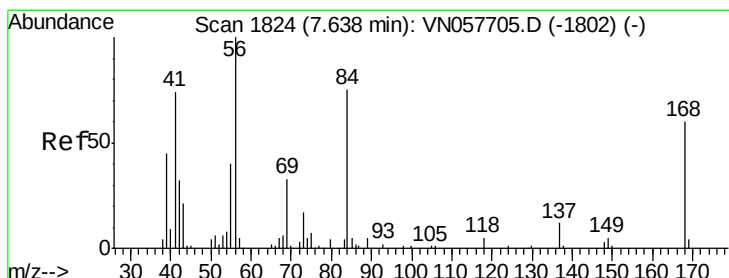
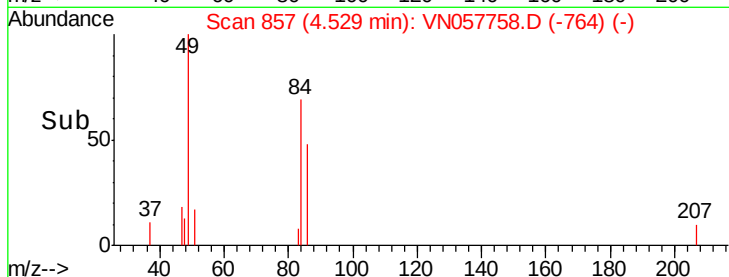
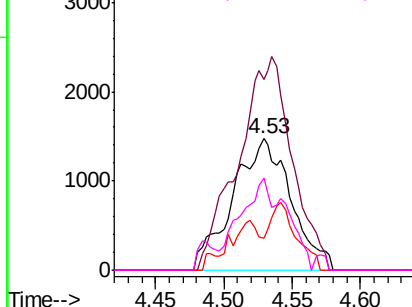
#20
Methylene Chloride
Concen: 1.346 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
T12-C4-(3.5)

Tgt Ion: 84 Resp: 4375
Ion Ratio Lower Upper
84 100
49 145.4 115.0 172.6
51 24.8 33.8 50.8#
86 69.9 48.2 72.2

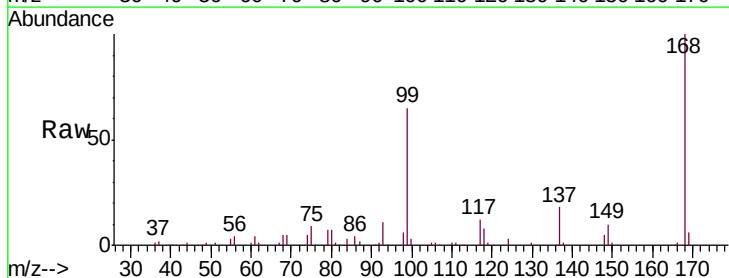


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

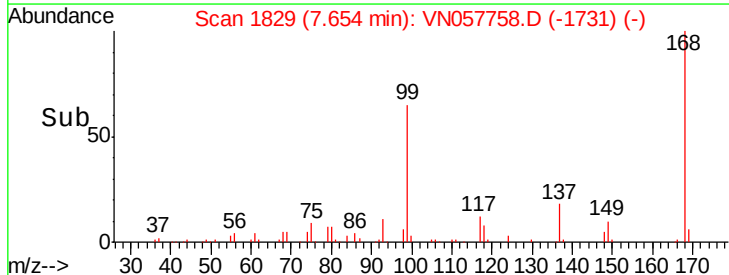
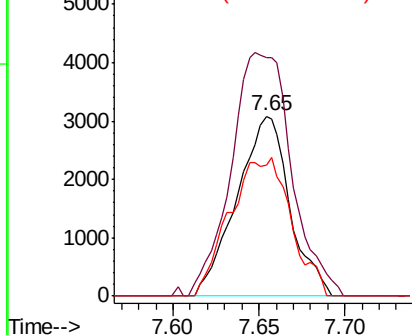


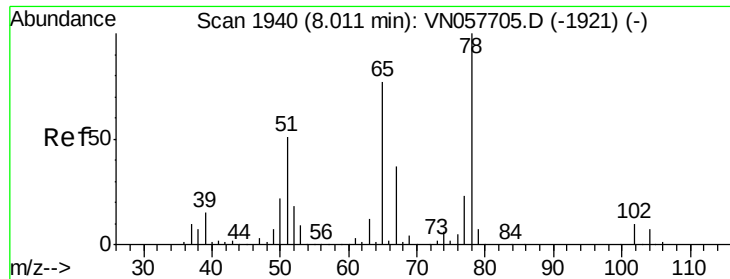
#31
Cyclohexane
Concen: 1.200 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Tgt Ion: 56 Resp: 6582
Ion Ratio Lower Upper
56 100
69 132.5 26.2 39.2#
84 73.0 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

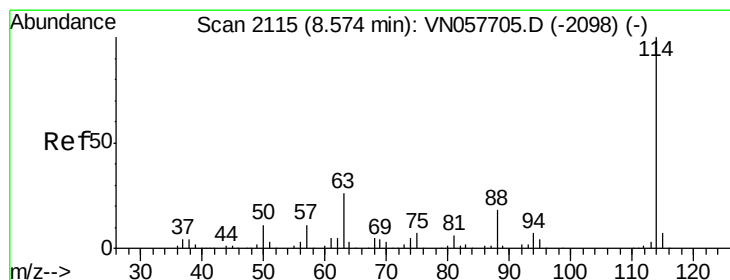
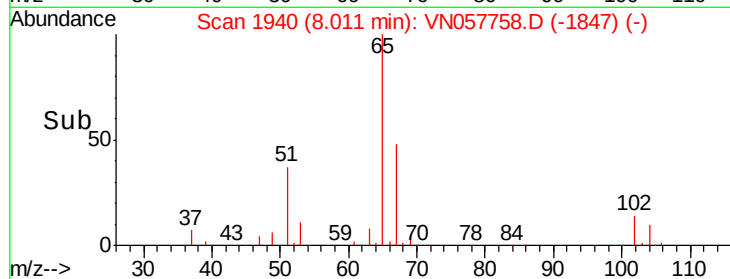
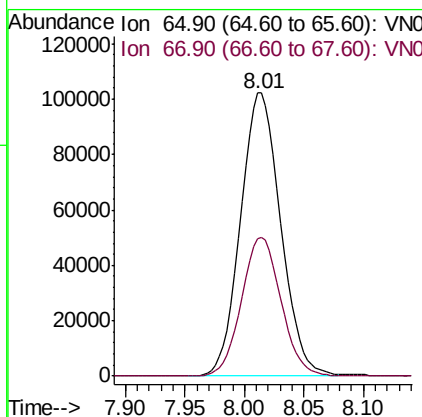
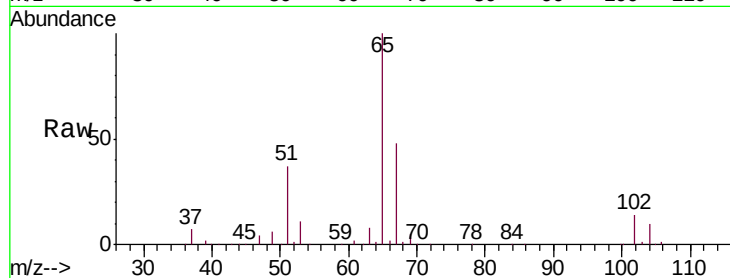




#33
 1,2-Dichloroethane-d4
 Concen: 48.945 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN057758.D
 Acq: 7 Sep 2019 16:57

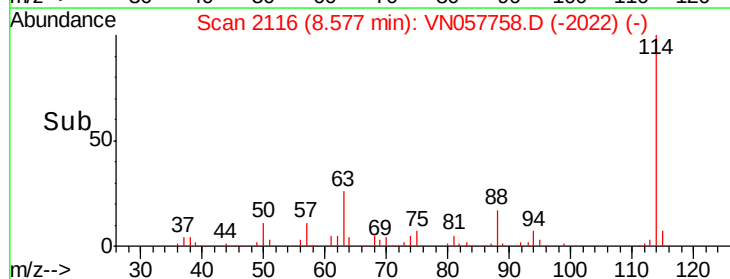
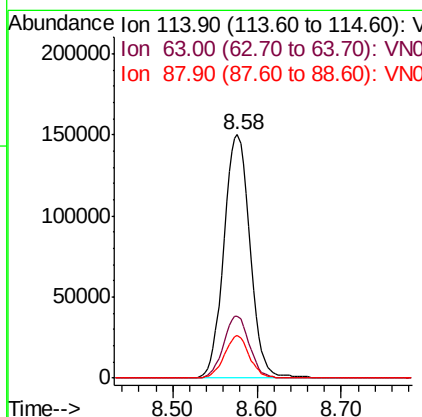
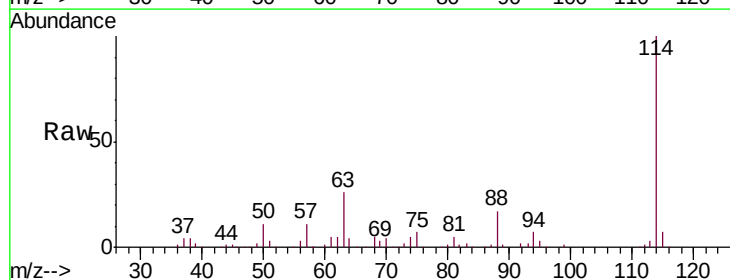
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-C4-(3.5)

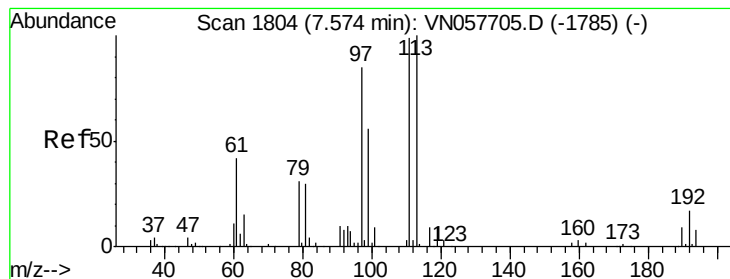
Tgt Ion: 65 Resp: 239126
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057758.D
 Acq: 7 Sep 2019 16:57

Tgt Ion: 114 Resp: 323301
 Ion Ratio Lower Upper
 114 100
 63 25.5 0.0 52.4
 88 17.3 0.0 35.4





#35

Dibromofluoromethane

Concen: 48.440 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

T12-C4-(3.5)

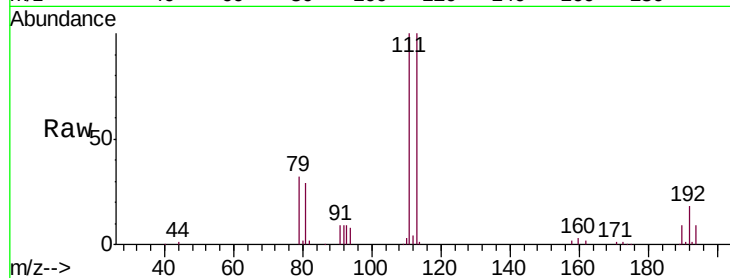
Tgt Ion:113 Resp: 142645

Ion Ratio Lower Upper

113 100

111 105.1 82.7 124.1

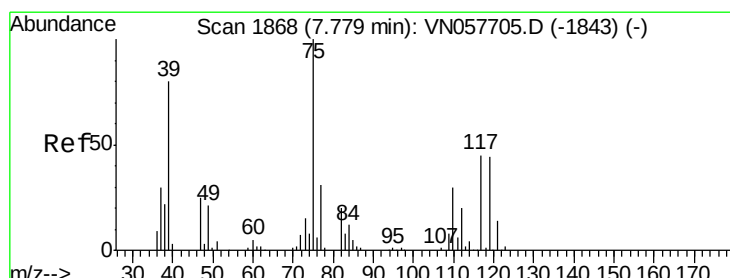
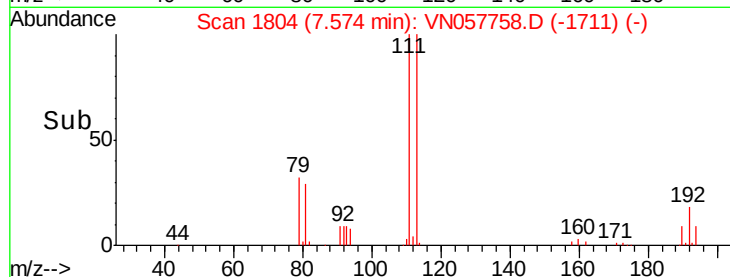
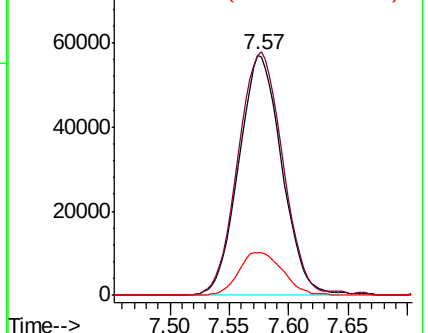
192 18.3 13.8 20.6



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: 4.440 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

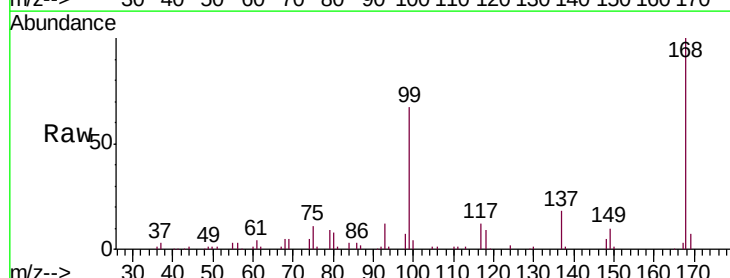
Tgt Ion: 75 Resp: 19097

Ion Ratio Lower Upper

75 100

110 7.5 15.0 45.0#

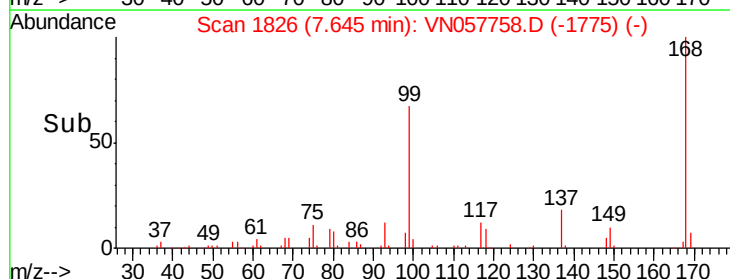
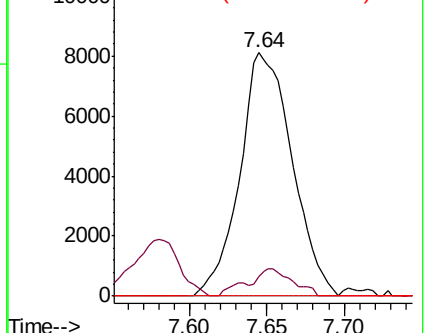
77 0.0 24.6 37.0#

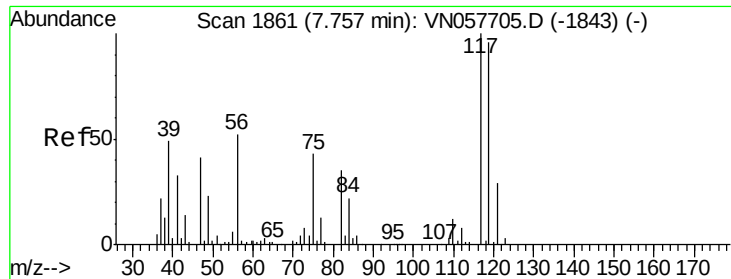


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.613 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

T12-C4-(3.5)

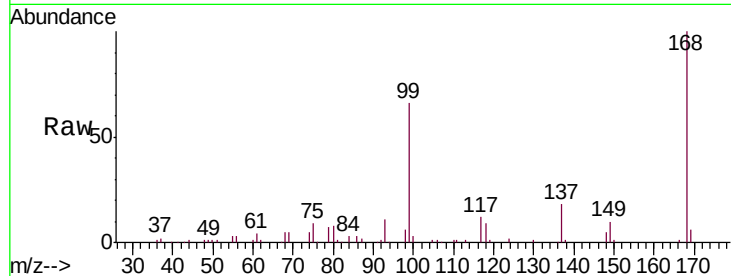
Tgt Ion:117 Resp: 23116

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

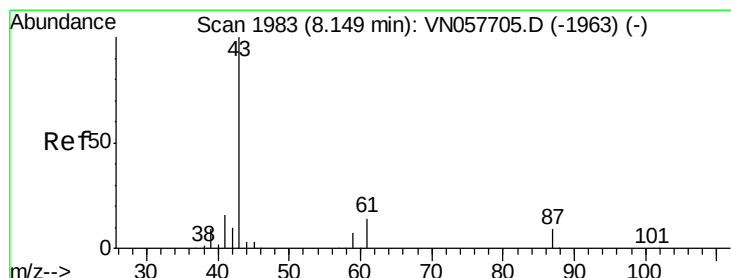
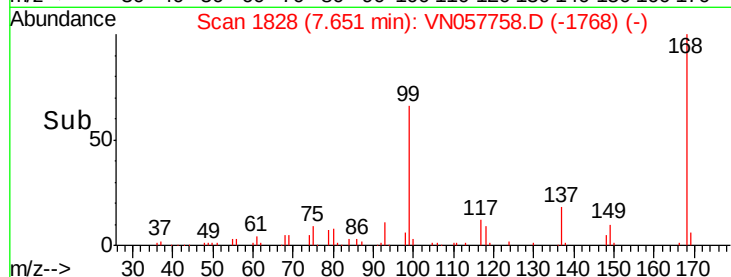
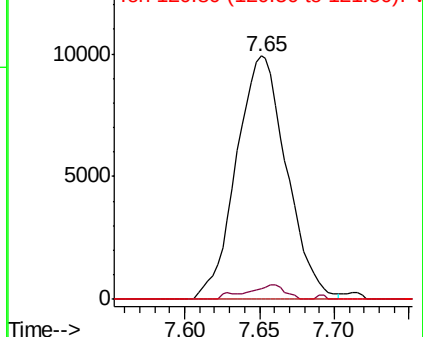
121 0.0 23.4 35.2#



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: 7.069 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

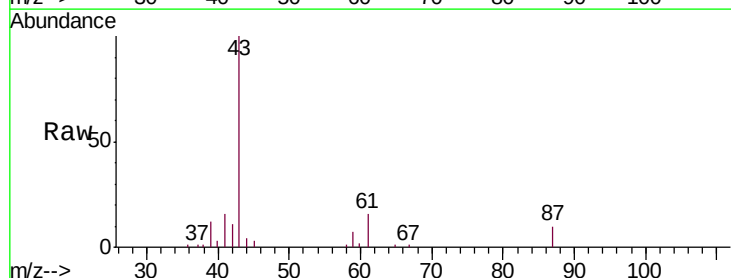
Tgt Ion: 43 Resp: 57933

Ion Ratio Lower Upper

43 100

61 16.5 12.8 19.2

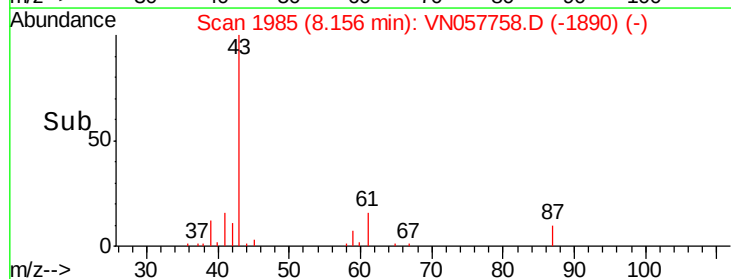
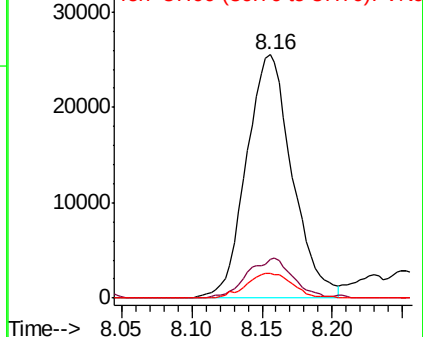
87 10.3 7.8 11.8

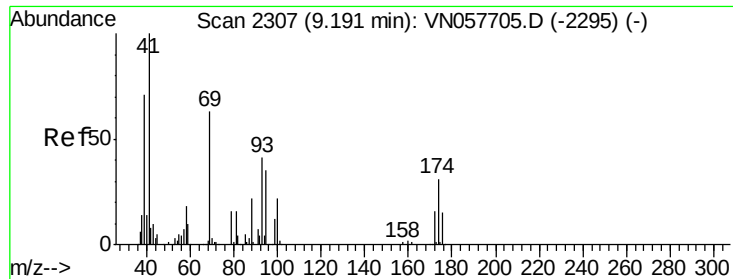


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

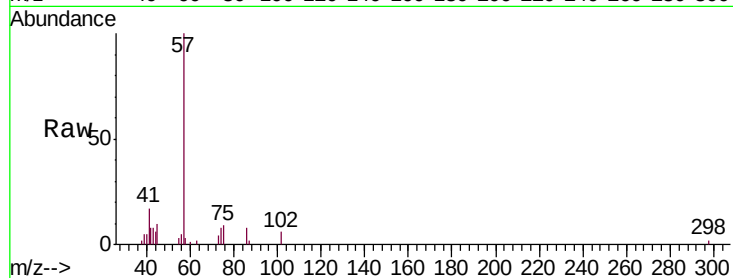




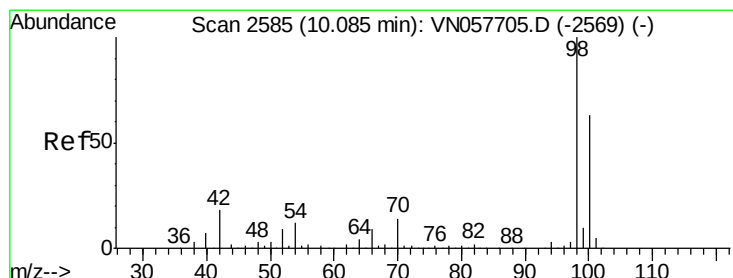
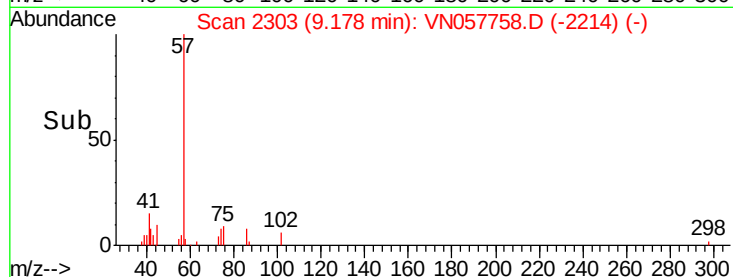
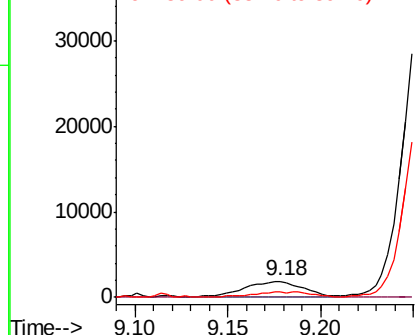
#48
Methyl methacrylate
Concen: 1.000 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
T12-C4-(3.5)

Tgt Ion: 41 Resp: 4215
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#

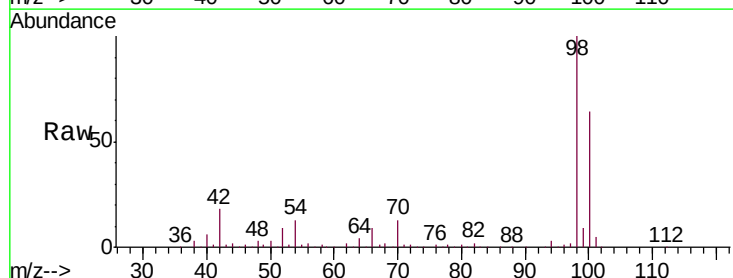


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

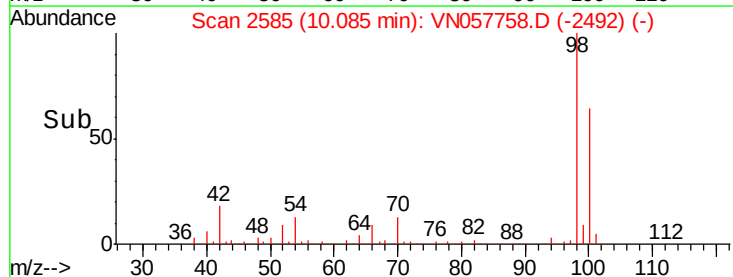
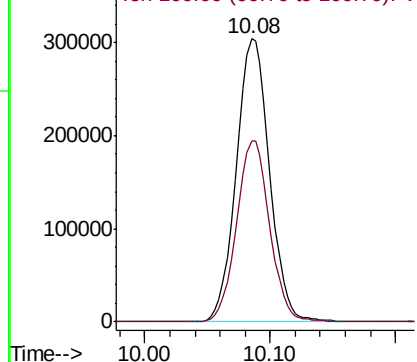


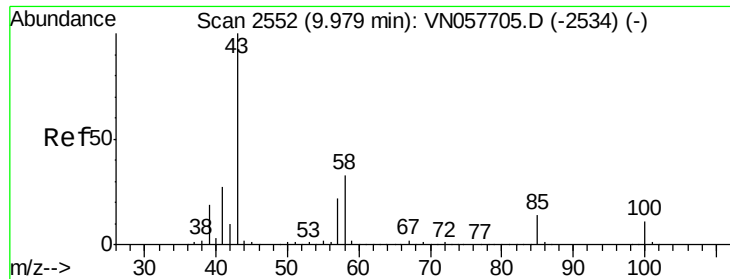
#50
Toluene-d8
Concen: 51.438 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Tgt Ion: 98 Resp: 560336
Ion Ratio Lower Upper
98 100
100 63.9 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: 1.210 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

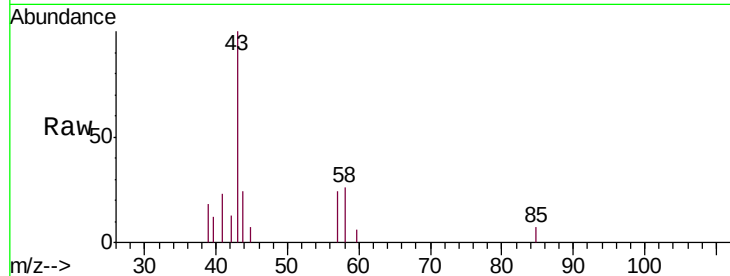
T12-C4-(3.5)

Tgt Ion: 43 Resp: 5508

Ion Ratio Lower Upper

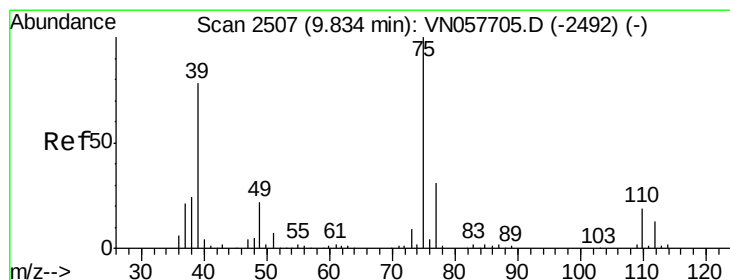
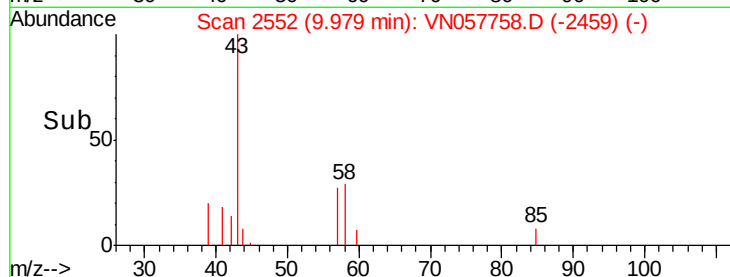
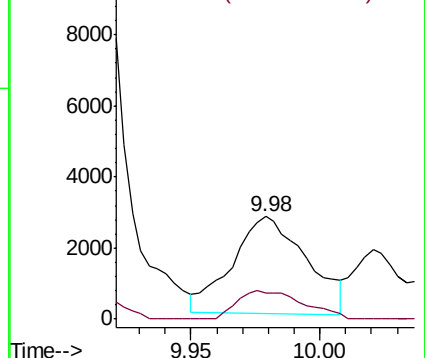
43 100

58 26.1 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.454 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

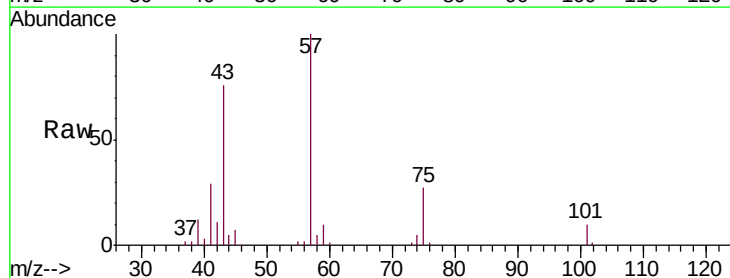
Tgt Ion: 75 Resp: 22394

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

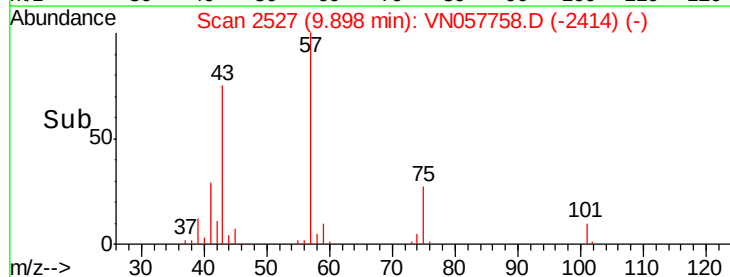
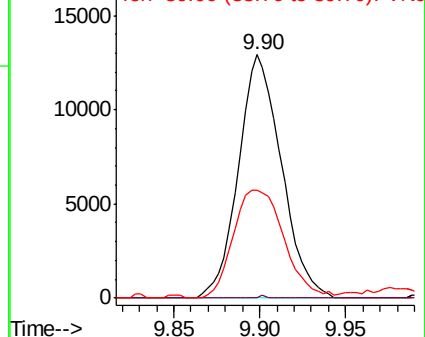
39 44.3 62.4 93.6#

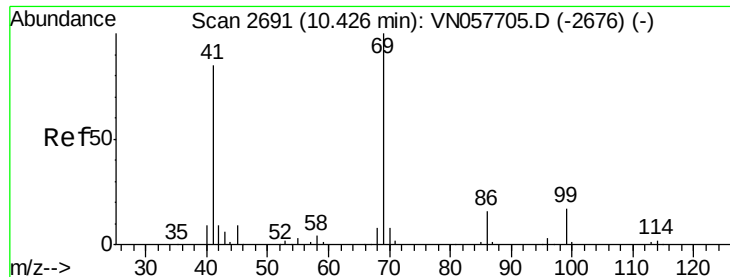


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

T12-C4-(3.5)

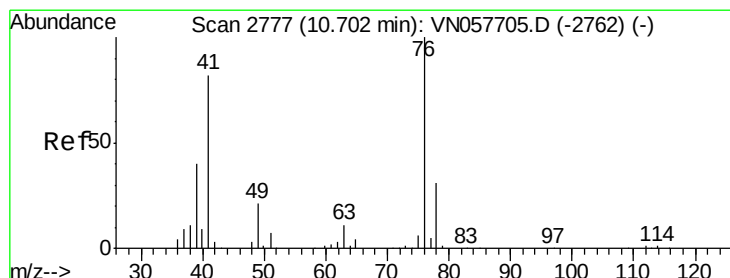
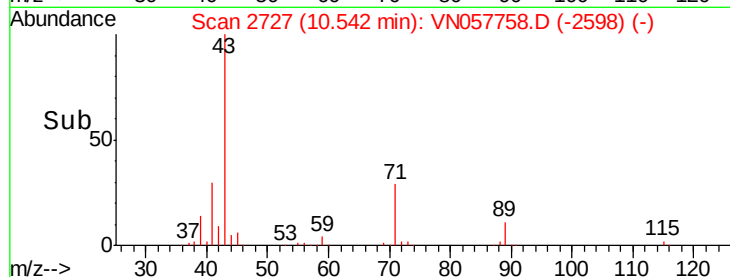
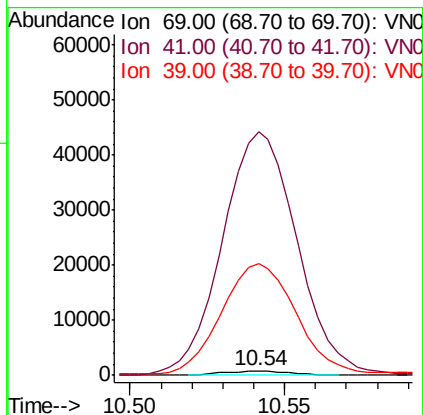
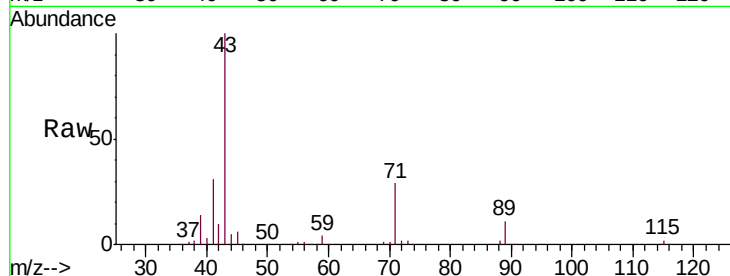
Tgt Ion: 69 Resp: 1151

Ion Ratio Lower Upper

69 100

41 6518.5 69.0 103.4#

39 3062.7 49.2 73.8#



#57

1,3-Dichloropropane

Concen: 0.762 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057758.D

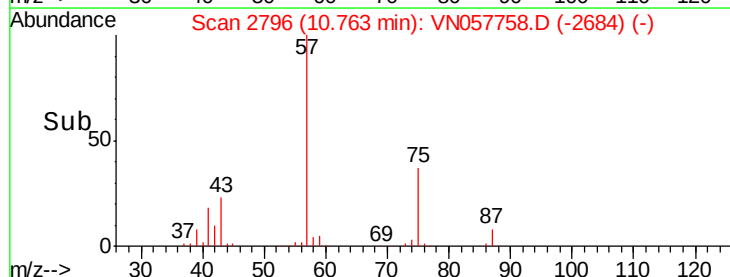
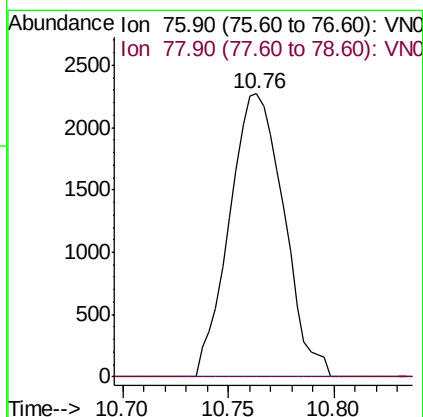
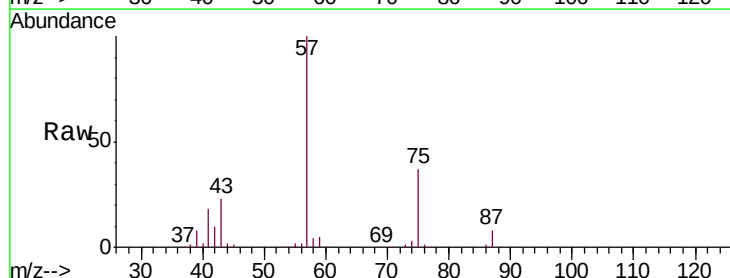
Acq: 7 Sep 2019 16:57

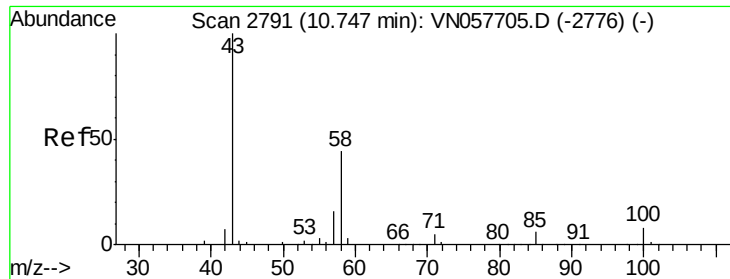
Tgt Ion: 76 Resp: 4061

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

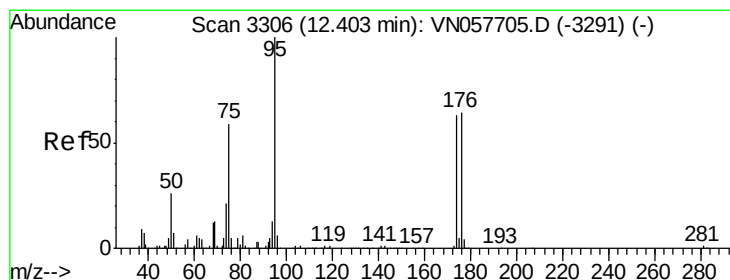
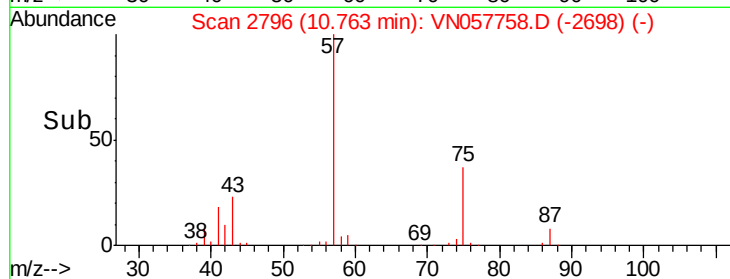
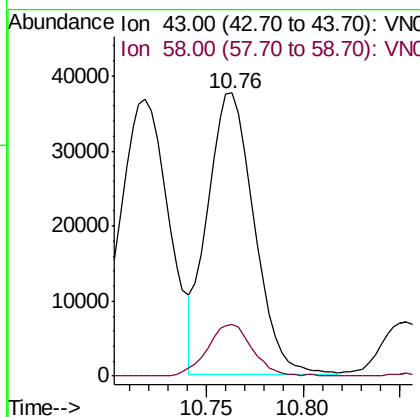
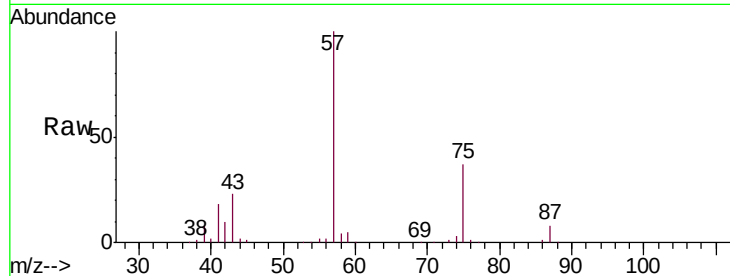




#59
2-Hexanone
Concen: 19.755 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

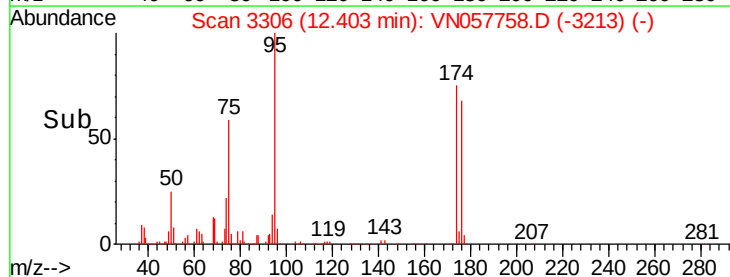
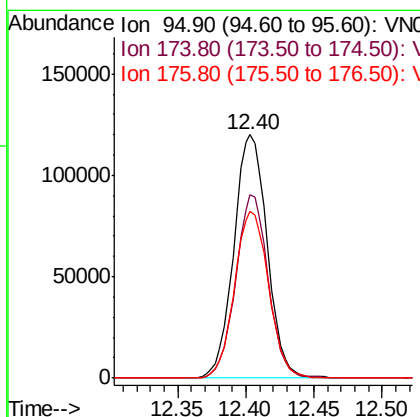
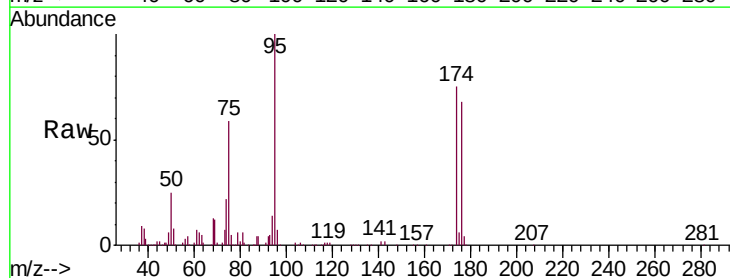
Instrument :
MSVOA_N
ClientSampled :
T12-C4-(3.5)

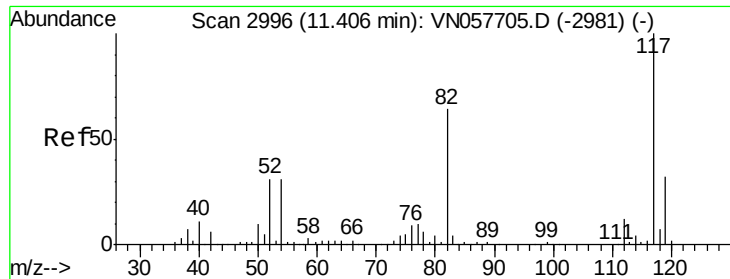
Tgt Ion: 43 Resp: 63407
Ion Ratio Lower Upper
43 100
58 17.6 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 45.000 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Tgt Ion: 95 Resp: 203609
Ion Ratio Lower Upper
95 100
174 73.1 0.0 128.0
176 69.9 0.0 128.0

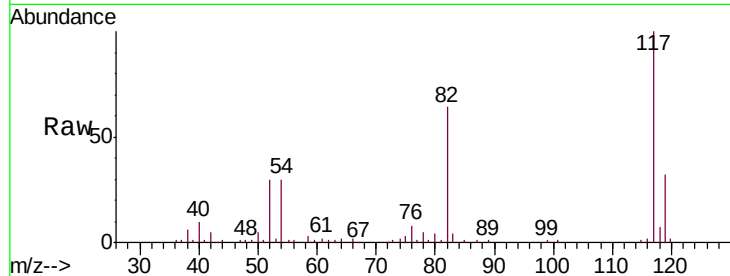




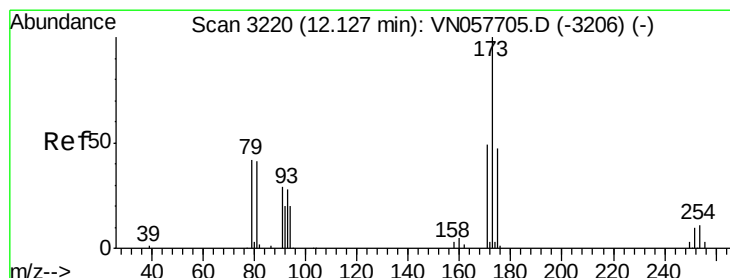
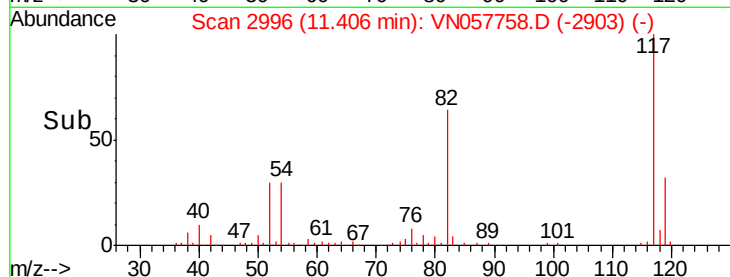
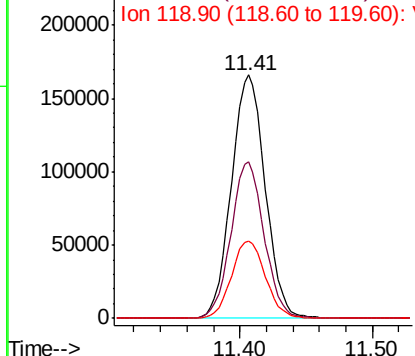
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
T12-C4-(3.5)

Tgt Ion:117 Resp: 293480
Ion Ratio Lower Upper
117 100
82 64.4 51.4 77.0
119 31.7 25.4 38.2

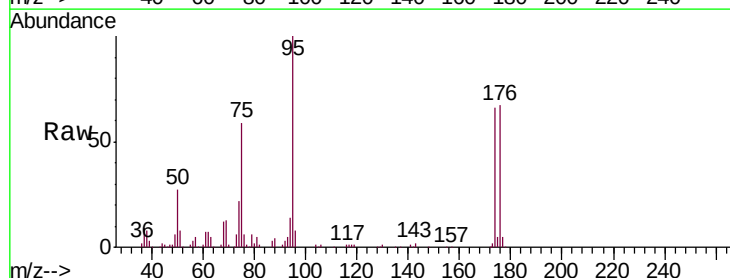


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

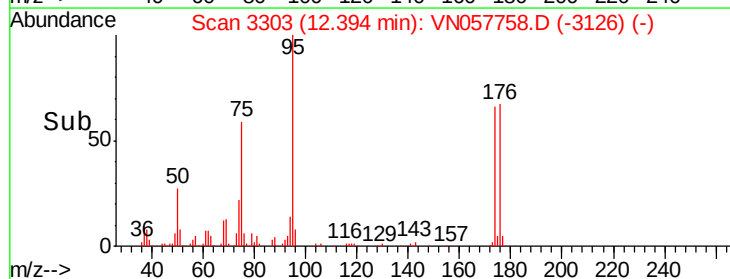
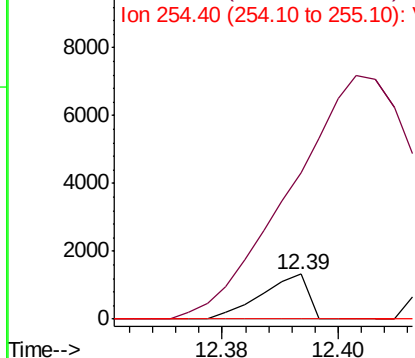


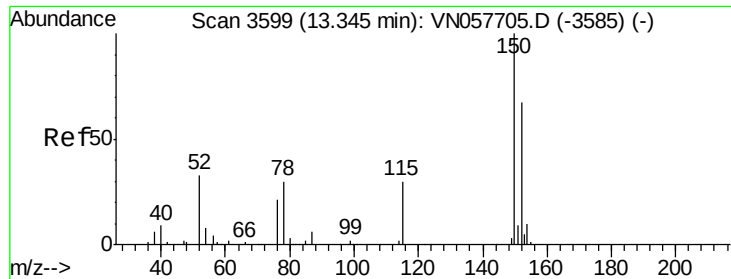
#71
Bromoform
Concen: 3.587 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN057758.D
Acq: 7 Sep 2019 16:57

Tgt Ion:173 Resp: 734
Ion Ratio Lower Upper
173 100
175 1340.6 24.6 73.8#
254 0.0 0.0 0.0



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: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

T12-C4-(3.5)

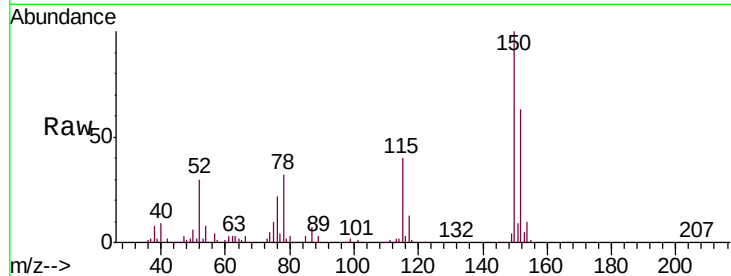
Tgt Ion:152 Resp: 150644

Ion Ratio Lower Upper

152 100

115 65.3 33.8 101.3

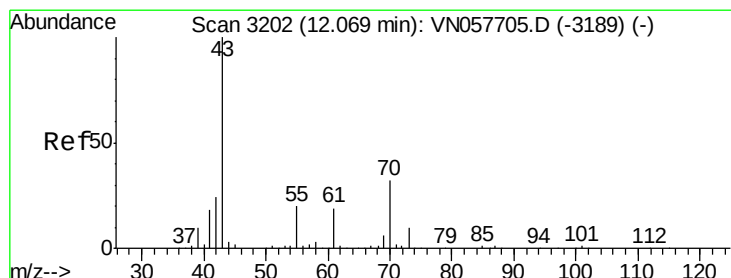
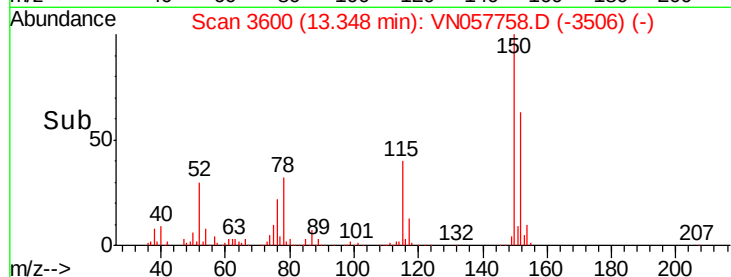
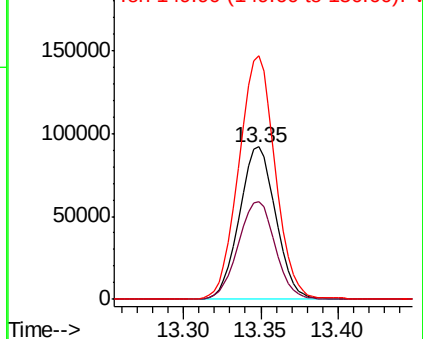
150 159.9 0.0 345.4



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: 0.247 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Tgt Ion: 43 Resp: 1645

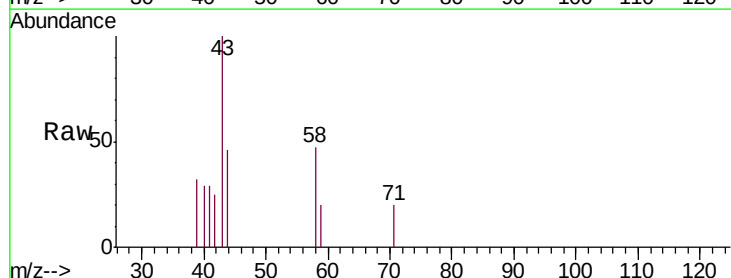
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 7.1 16.3 24.5#

61 0.0 15.0 22.4#

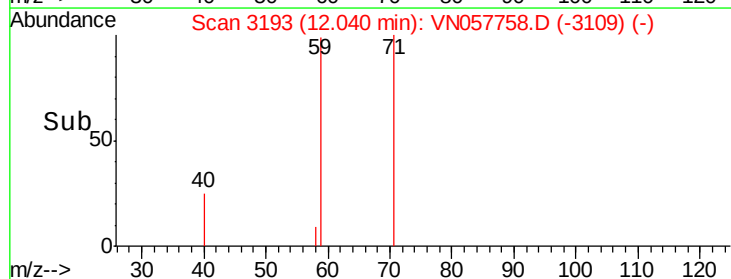
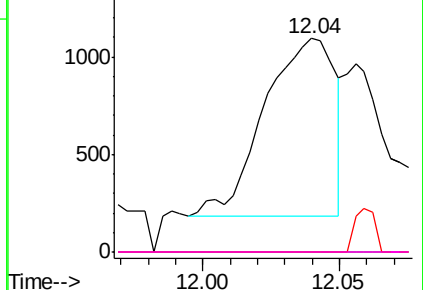


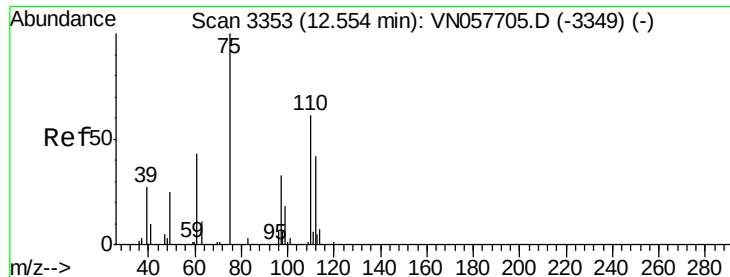
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 34.903 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

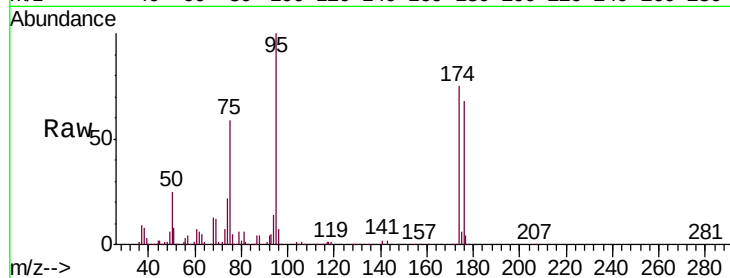
T12-C4-(3.5)

Tgt Ion: 75 Resp: 120742

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

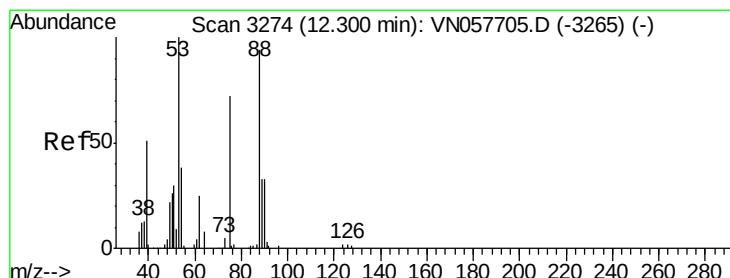
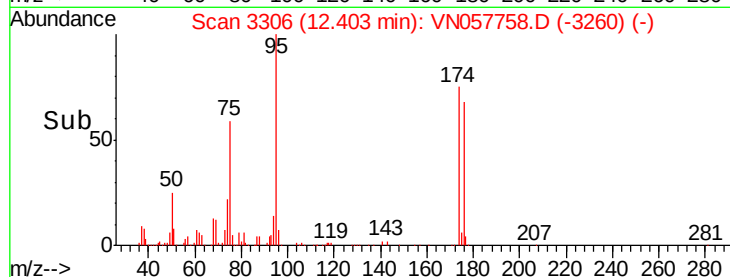
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 108.549 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057758.D

Acq: 7 Sep 2019 16:57

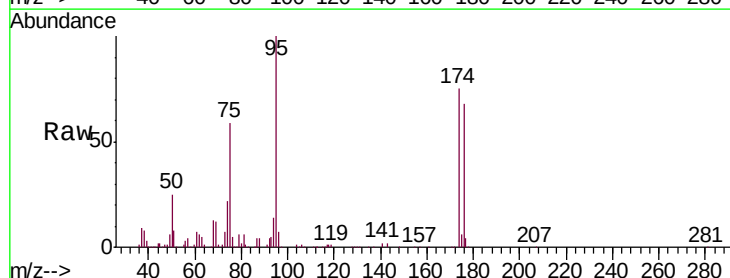
Tgt Ion: 75 Resp: 120742

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

80000

60000

40000

20000

0

Time--> 12.30 12.40 12.50

