

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057736.D
 Acq On : 7 Sep 2019 00:06
 Operator : JC/SP
 Sample : K4580-36
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A2-(0)

Quant Time: Sep 07 00:31:17 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	187585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	316545	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	287884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	148728	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	253213	55.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.98%	
35) Dibromofluoromethane	7.58	113	148066	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
50) Toluene-d8	10.08	98	565627	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
62) 4-Bromofluorobenzene	12.40	95	203594	45.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.92%	

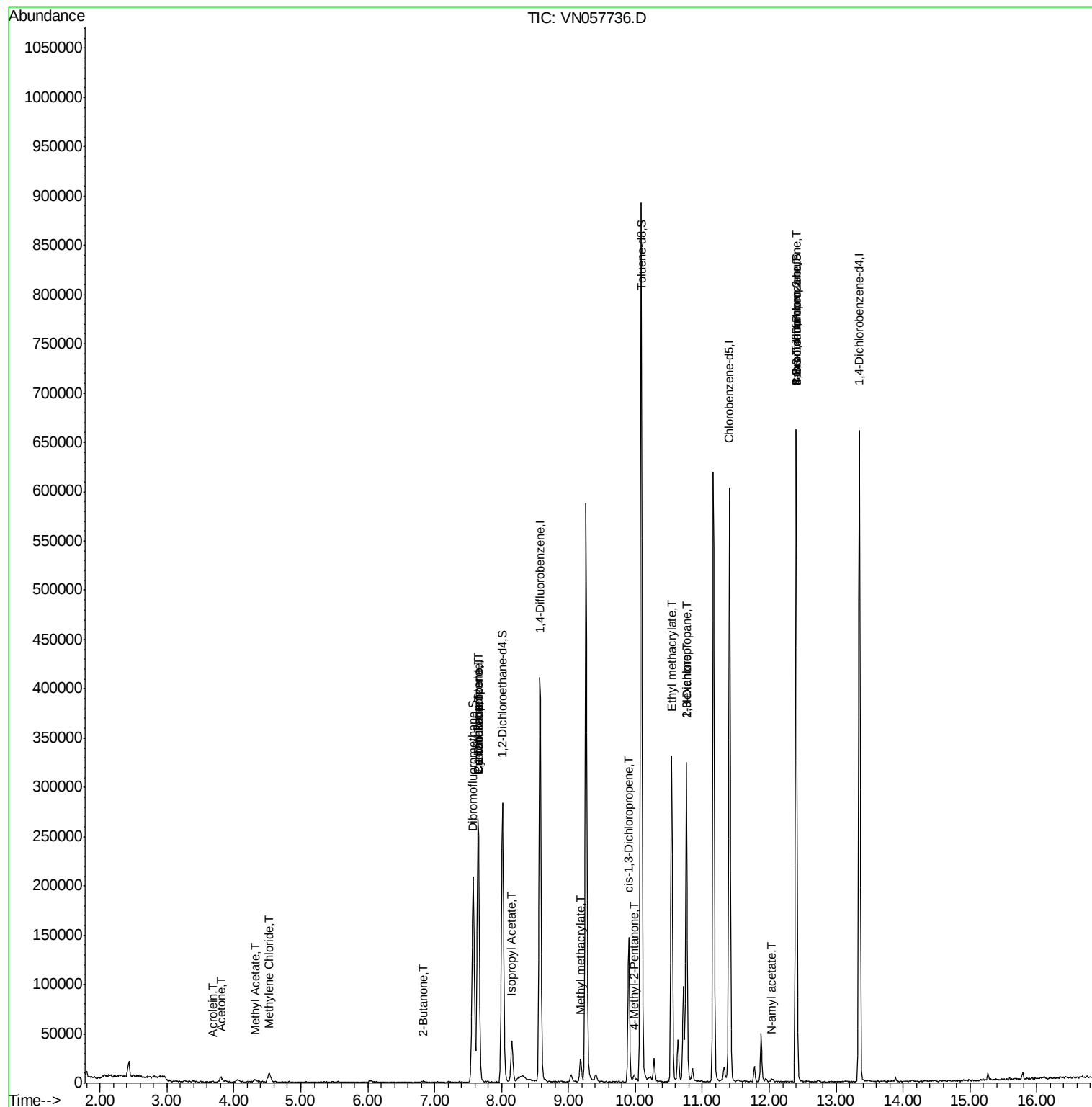
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	997	Below Cal	#	42
13) Acrolein	3.68	56	113	0.458	ug/l	91
16) Acetone	3.81	43	9707	6.912	ug/l	97
18) Methyl Acetate	4.32	43	2637	0.691	ug/l #	78
20) Methylene Chloride	4.53	84	5711	1.881	ug/l	96
25) 2-Butanone	6.83	43	1634	0.812	ug/l #	55
31) Cyclohexane	7.65	56	6654	1.299	ug/l #	53
36) 1,1-Dichloropropene	7.65	75	19156	4.549	ug/l #	49
38) Carbon Tetrachloride	7.65	117	21277	5.277	ug/l #	15
43) Isopropyl Acetate	8.15	43	51548	6.424	ug/l	98
48) Methyl methacrylate	9.17	41	3565	0.864	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	5035	1.130	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	22003	4.470	ug/l #	63
56) Ethyl methacrylate	10.54	69	1179	0.254	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	2706	0.519	ug/l #	43
59) 2-Hexanone	10.76	43	55048	17.517	ug/l #	57
71) Bromoform	12.40	173	1115	3.776	ug/l #	1
74) N-amyl acetate	12.03	43	4230	0.644	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	126682	37.092	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	126682	115.356	ug/l #	1

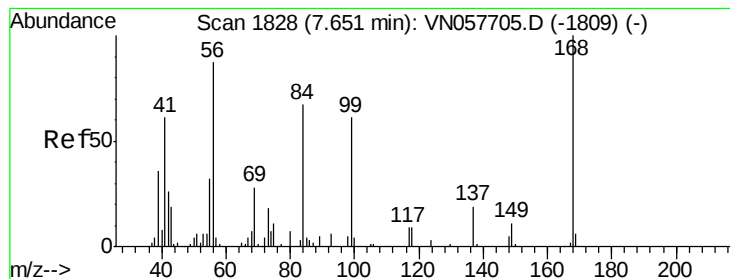
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampleId :

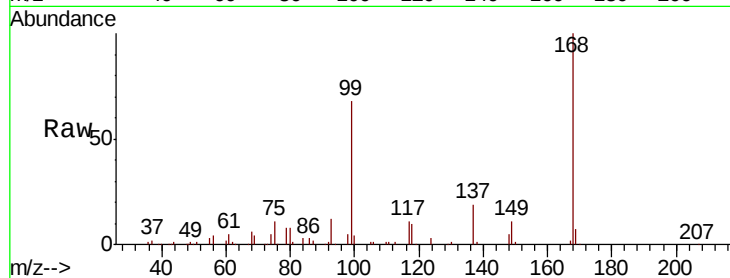
T12-A2-(0)

Tgt Ion:168 Resp: 187585

Ion Ratio Lower Upper

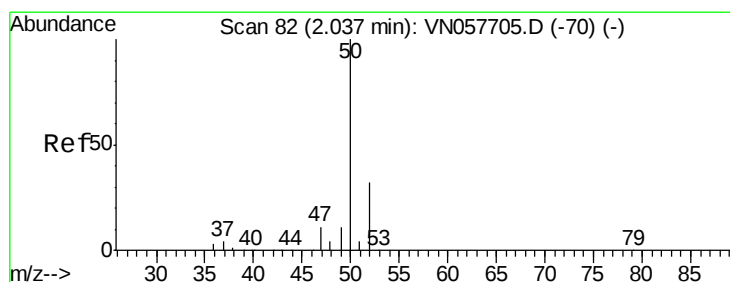
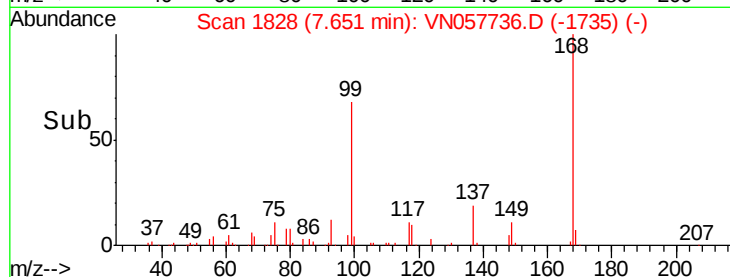
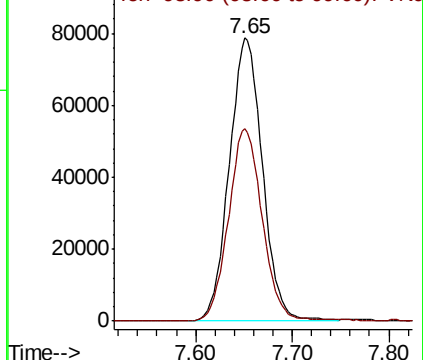
168 100

99 67.8 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057736.D

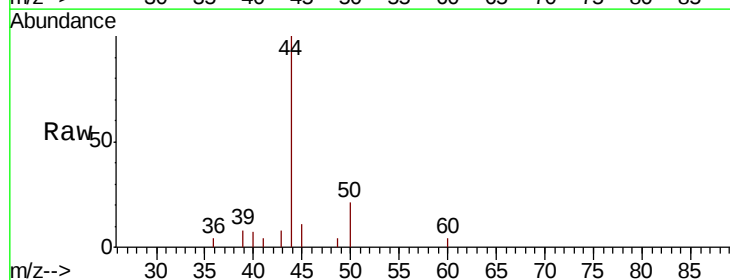
Acq: 7 Sep 2019 00:06

Tgt Ion: 50 Resp: 997

Ion Ratio Lower Upper

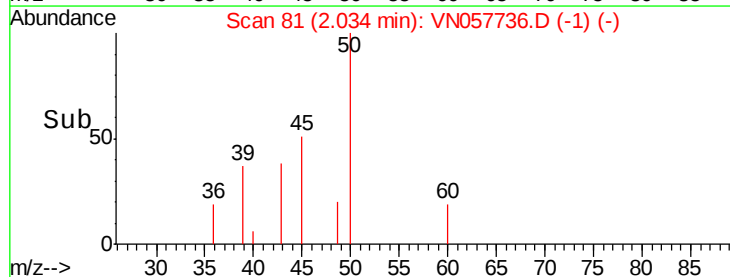
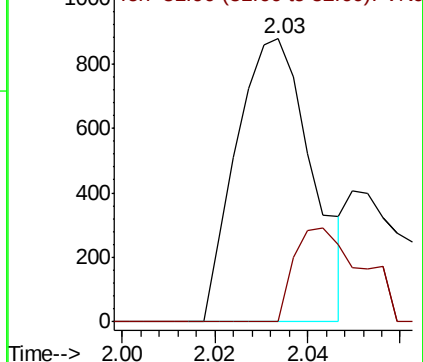
50 100

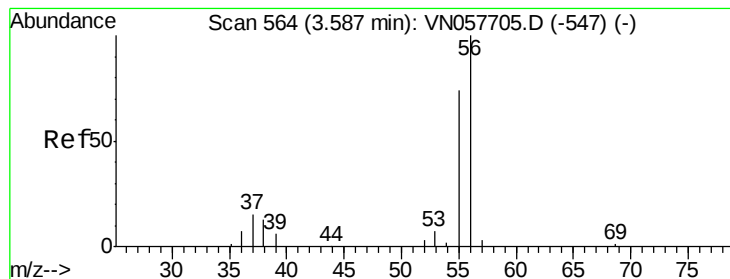
52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#13

Acrolein

Concen: 0.458 ug/l

RT: 3.68 min Scan# 594

Delta R.T. 0.10 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampled :

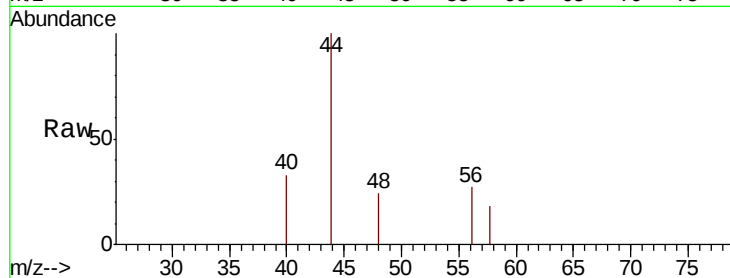
T12-A2-(0)

Tgt Ion: 56 Resp: 113

Ion Ratio Lower Upper

56 100

55 61.9 55.4 83.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

150

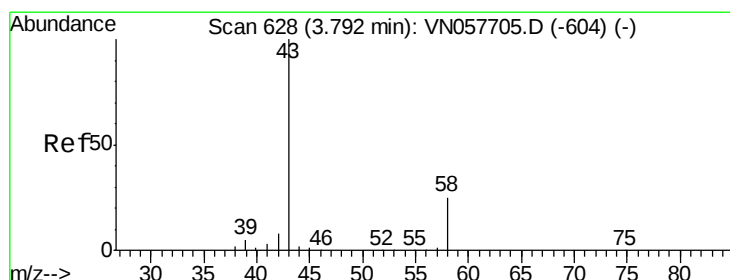
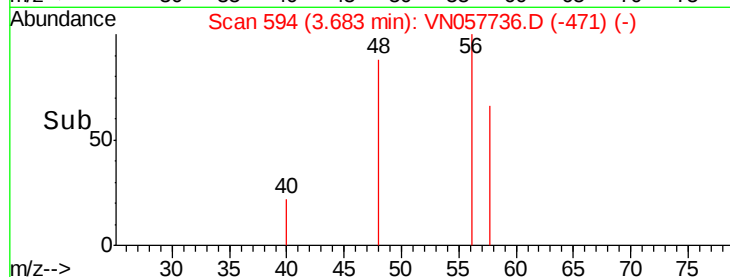
100

50

0

3.67 3.68 3.69

Time-->



#16

Acetone

Concen: 6.912 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN057736.D

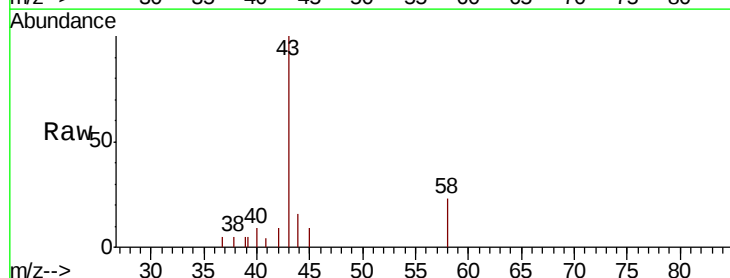
Acq: 7 Sep 2019 00:06

Tgt Ion: 43 Resp: 9707

Ion Ratio Lower Upper

43 100

58 23.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

3000

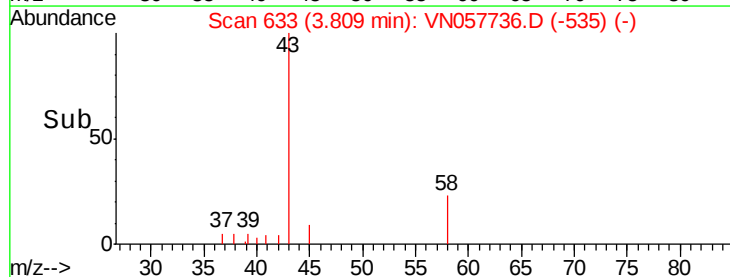
2000

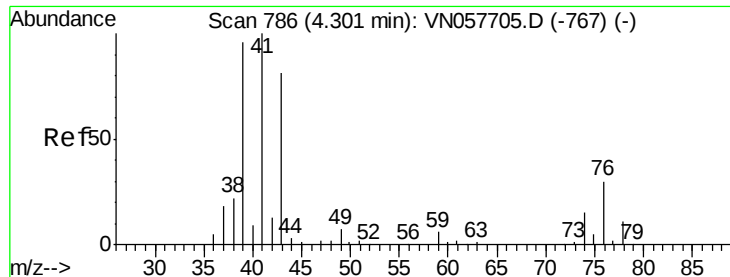
1000

0

3.75 3.80 3.85

Time-->

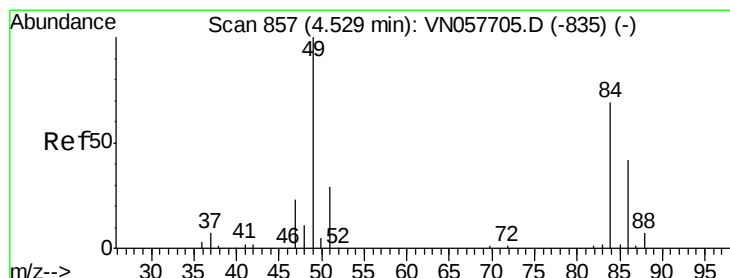
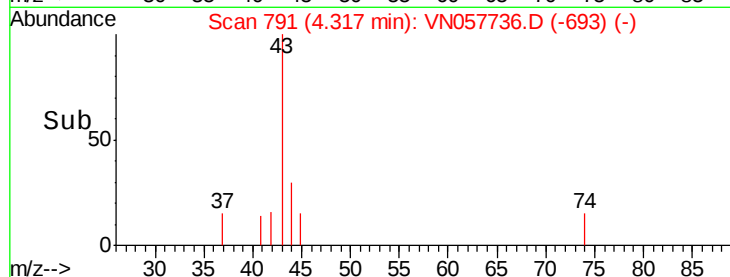
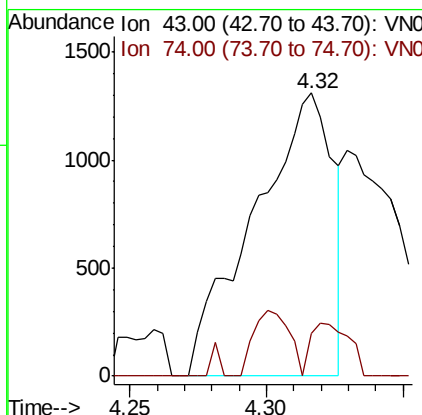
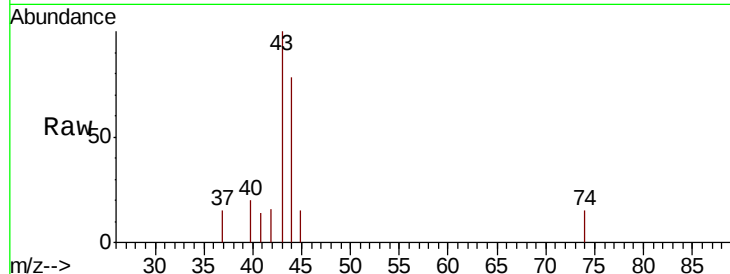




#18
Methyl Acetate
Concen: 0.691 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

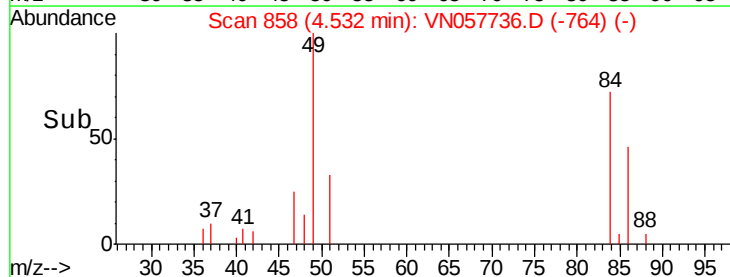
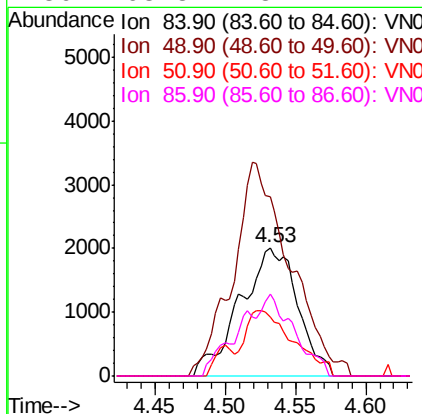
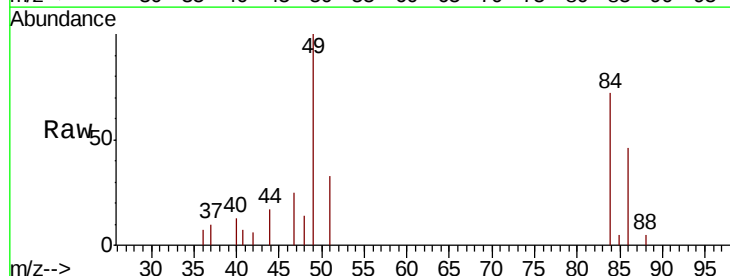
Instrument :
MSVOA_N
ClientSampled :
T12-A2-(0)

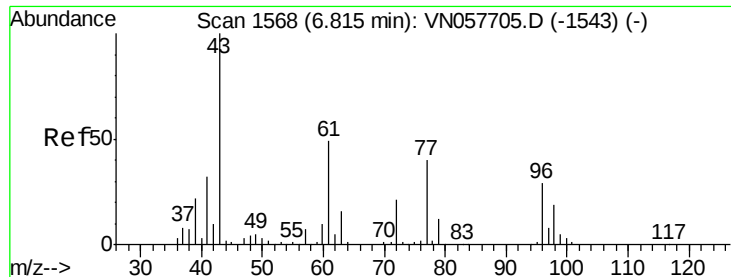
Tgt Ion: 43 Resp: 2637
Ion Ratio Lower Upper
43 100
74 9.0 15.3 22.9#



#20
Methylene Chloride
Concen: 1.881 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Tgt Ion: 84 Resp: 5711
Ion Ratio Lower Upper
84 100
49 139.0 115.0 172.6
51 45.4 33.8 50.8
86 63.8 48.2 72.2





#25

2-Butanone

Concen: 0.812 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampleId :

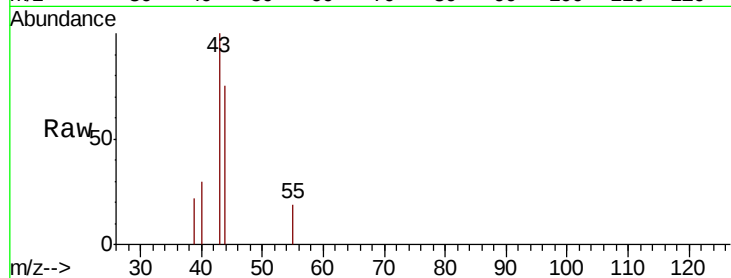
T12-A2-(0)

Tgt Ion: 43 Resp: 1634

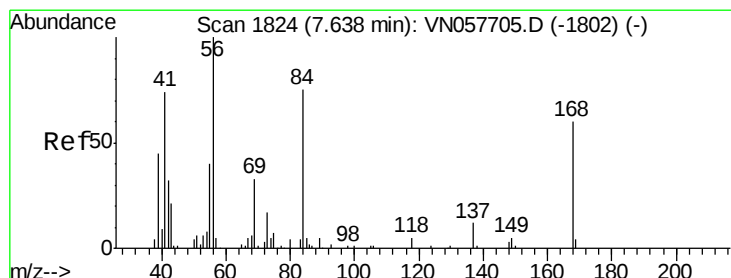
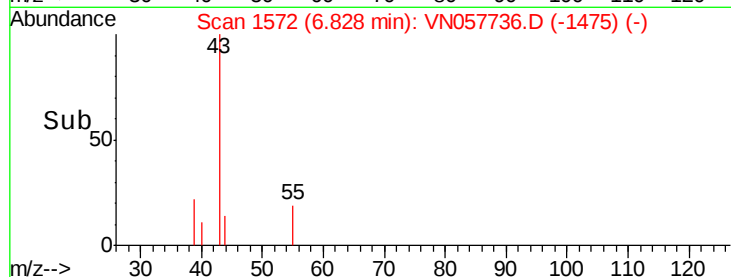
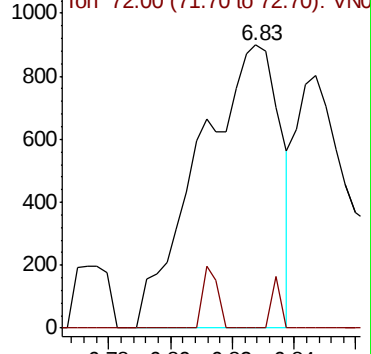
Ion Ratio Lower Upper

43 100

72 0.0 17.0 25.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057736.D (-1543) (-)



#31

Cyclohexane

Concen: 1.299 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

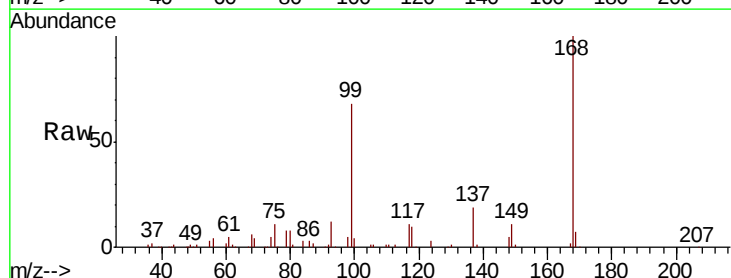
Tgt Ion: 56 Resp: 6654

Ion Ratio Lower Upper

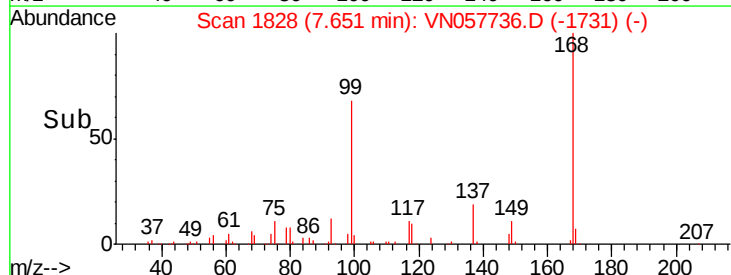
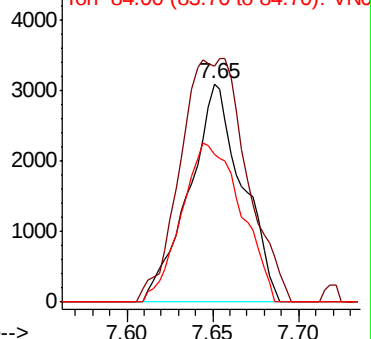
56 100

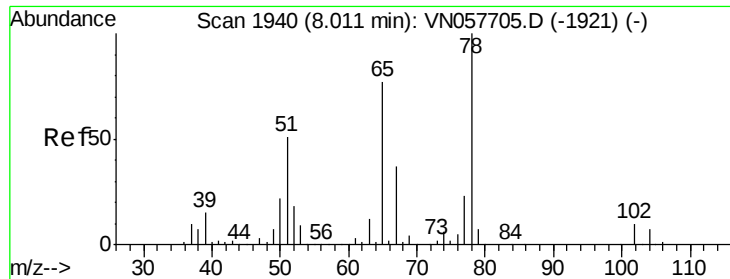
69 108.4 26.2 39.2#

84 67.5 59.8 89.8



Abundance Ion 56.00 (55.70 to 56.70): VN057736.D (-1731) (-)

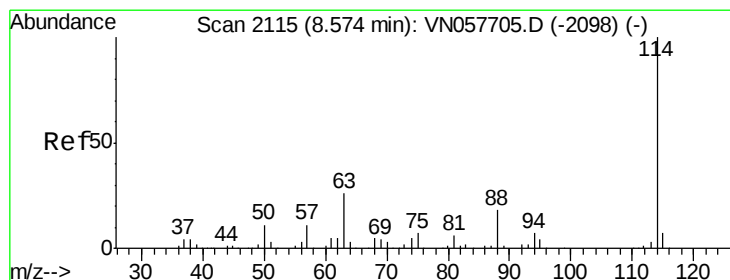
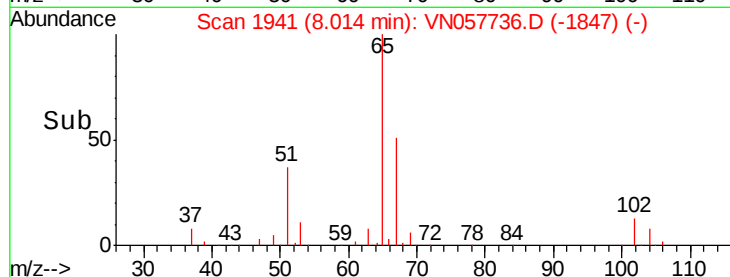
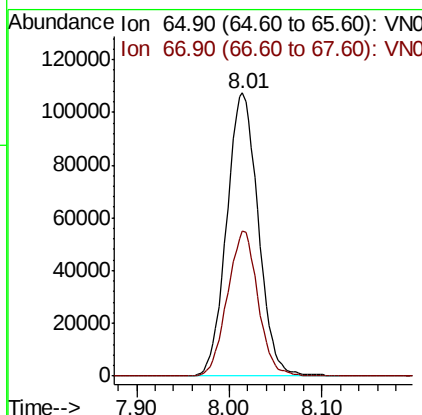
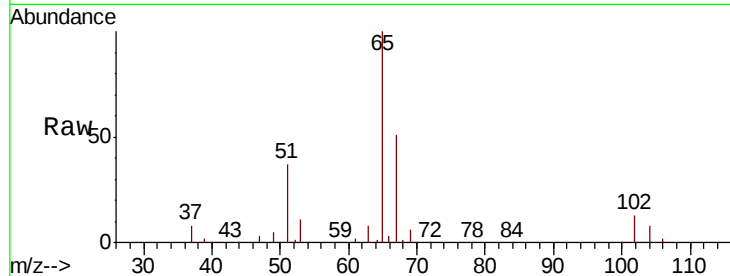




#33
 1,2-Dichloroethane-d4
 Concen: 55.488 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057736.D
 Acq: 7 Sep 2019 00:06

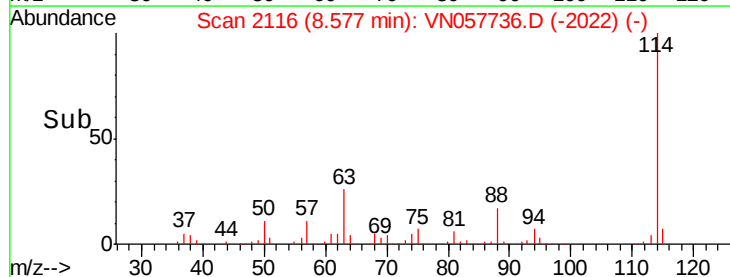
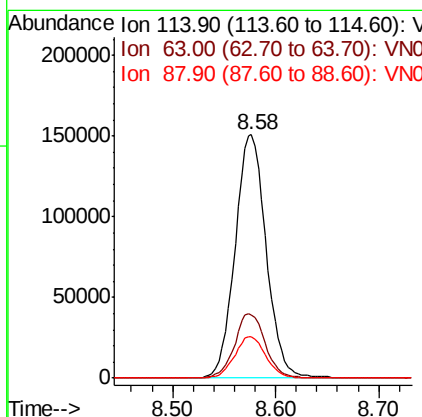
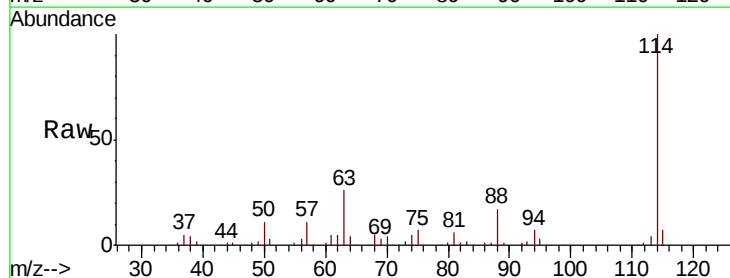
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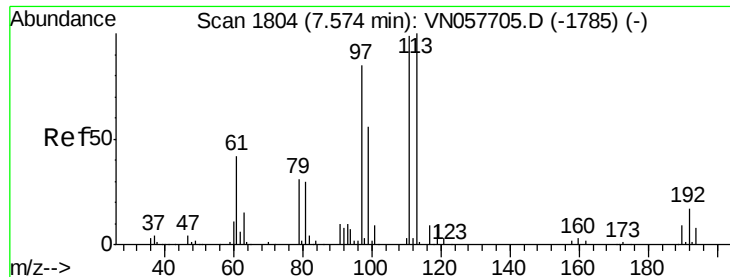
Tgt Ion: 65 Resp: 253213
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057736.D
 Acq: 7 Sep 2019 00:06

Tgt Ion: 114 Resp: 316545
 Ion Ratio Lower Upper
 114 100
 63 26.0 0.0 52.4
 88 17.0 0.0 35.4

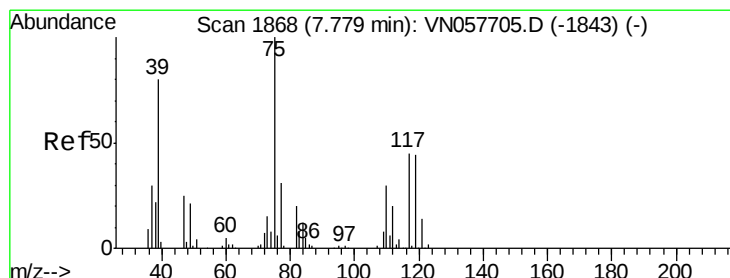
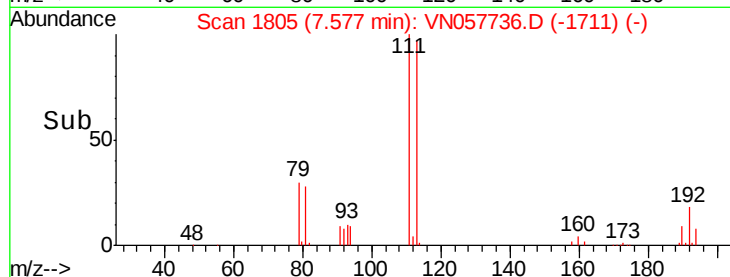
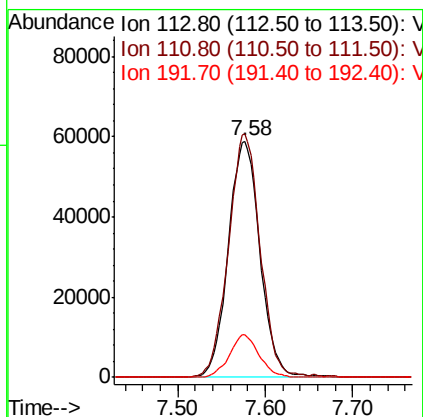
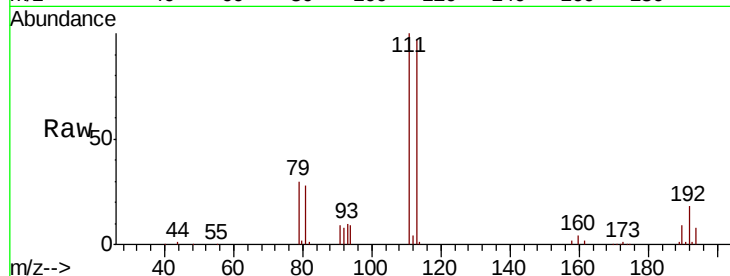




#35
 Dibromofluoromethane
 Concen: 51.354 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057736.D
 Acq: 7 Sep 2019 00:06

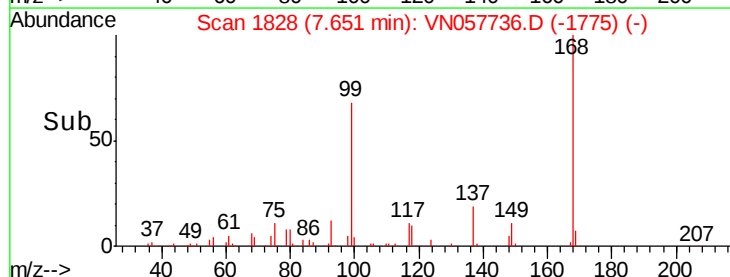
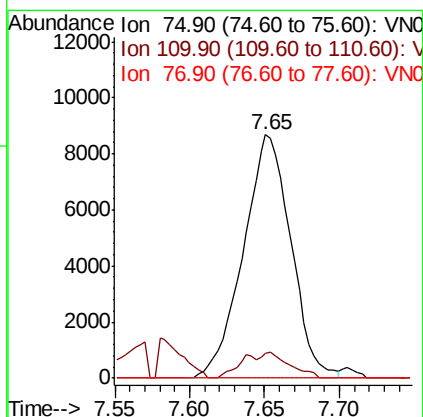
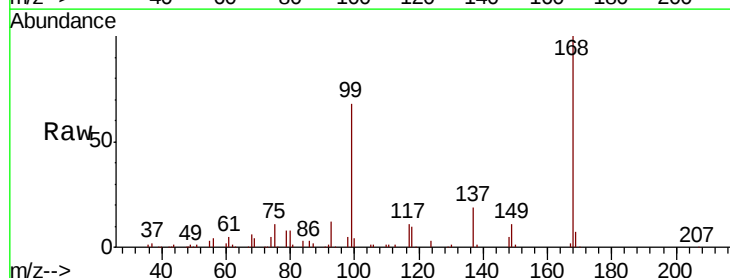
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 T12-A2-(0)

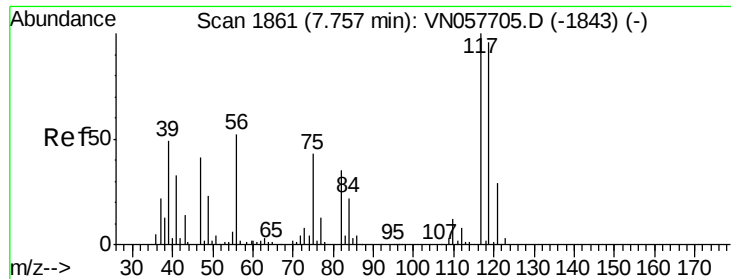
Tgt Ion:113 Resp: 148066
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.7 124.1
 192 16.9 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 4.549 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057736.D
 Acq: 7 Sep 2019 00:06

Tgt Ion: 75 Resp: 19156
 Ion Ratio Lower Upper
 75 100
 110 5.7 15.0 45.0#
 77 0.0 24.6 37.0#

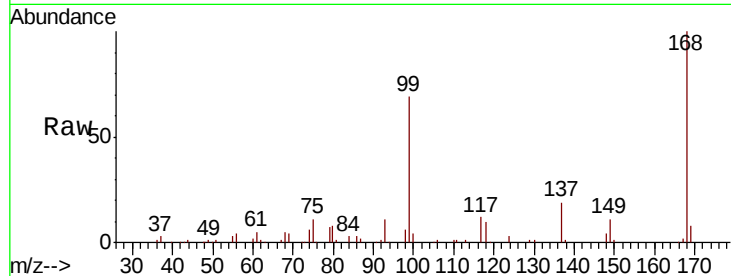




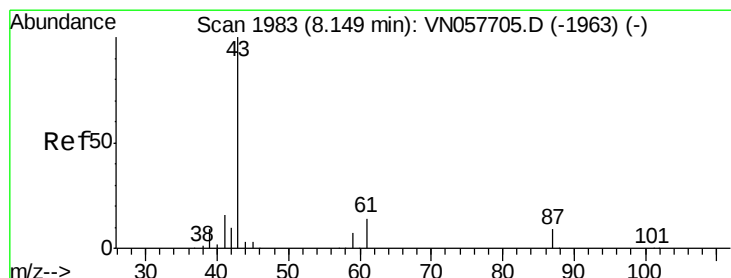
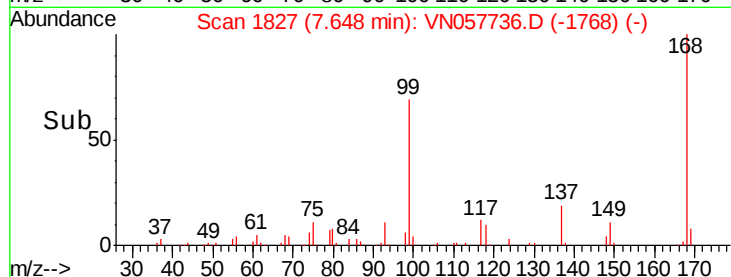
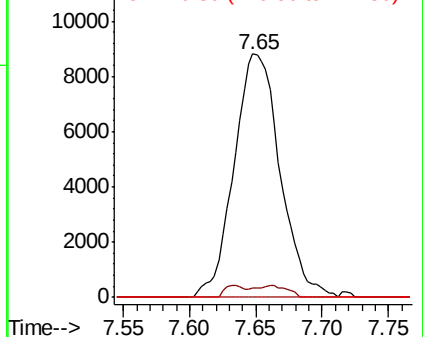
#38
Carbon Tetrachloride
Concen: 5.277 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Instrument :
MSVOA_N
ClientSampleId :
T12-A2-(0)

Tgt Ion: 117 Resp: 21277
Ion Ratio Lower Upper
117 100
119 3.7 76.1 114.1#
121 0.0 23.4 35.2#

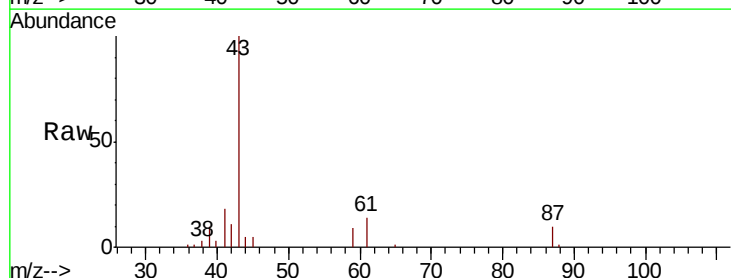


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

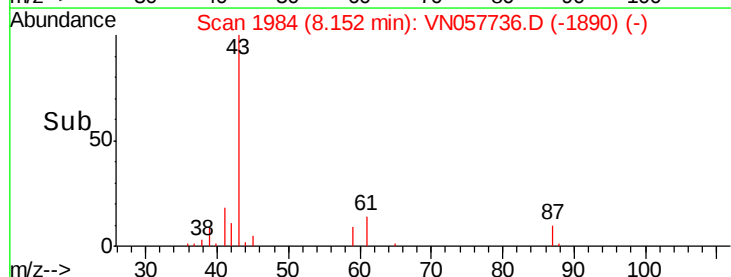
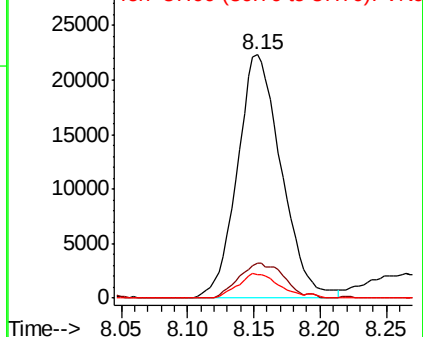


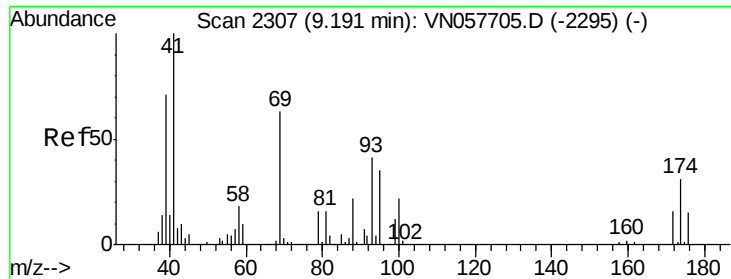
#43
Isopropyl Acetate
Concen: 6.424 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Tgt Ion: 43 Resp: 51548
Ion Ratio Lower Upper
43 100
61 14.8 12.8 19.2
87 9.2 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

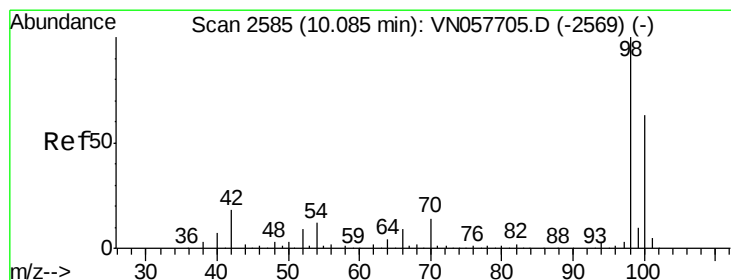
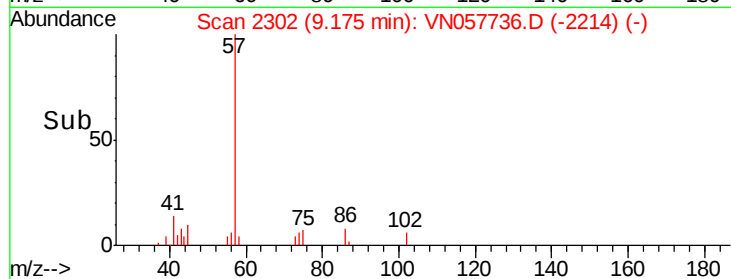
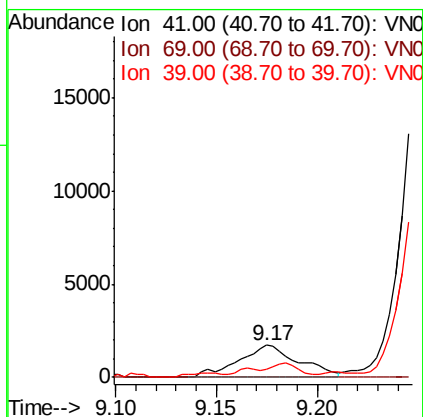
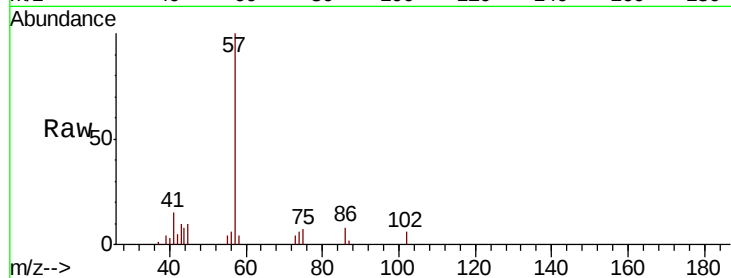




#48
Methyl methacrylate
Concen: 0.864 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

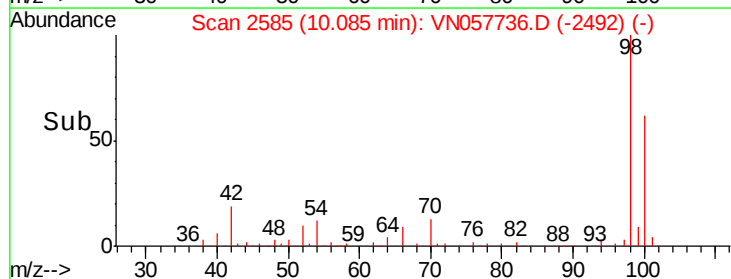
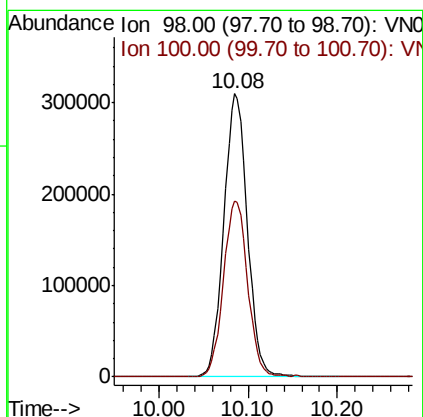
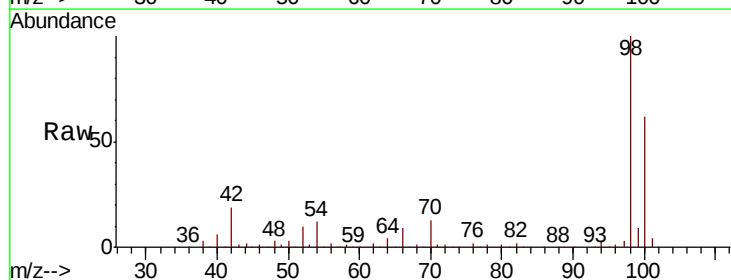
Instrument :
MSVOA_N
ClientSampleId :
T12-A2-(0)

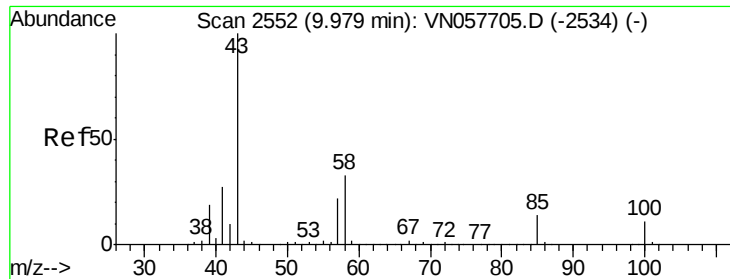
Tgt Ion: 41 Resp: 3565
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#



#50
Toluene-d8
Concen: 53.032 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Tgt Ion: 98 Resp: 565627
Ion Ratio Lower Upper
98 100
100 63.8 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.130 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampleId :

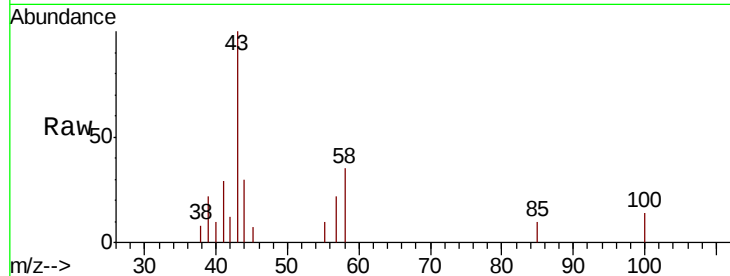
T12-A2-(0)

Tgt Ion: 43 Resp: 5035

Ion Ratio Lower Upper

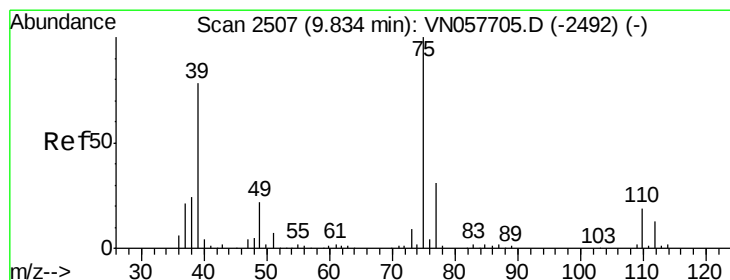
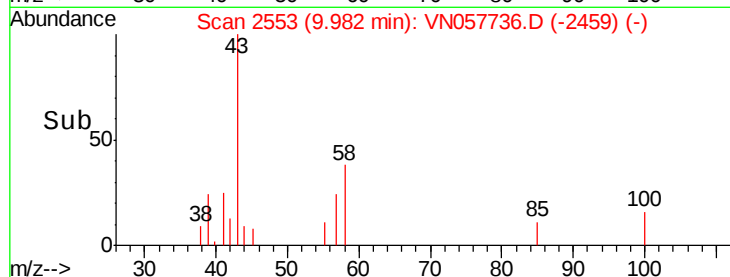
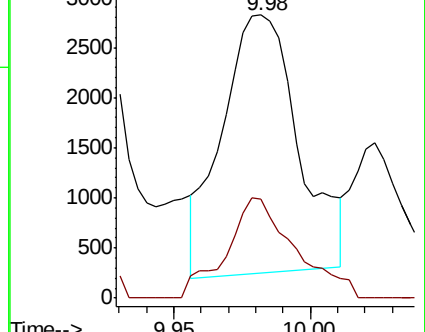
43 100

58 34.6 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057705.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.470 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

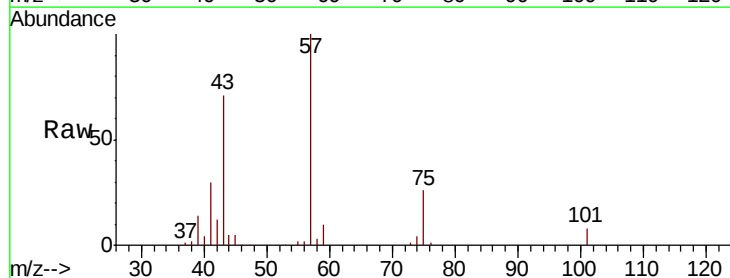
Tgt Ion: 75 Resp: 22003

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

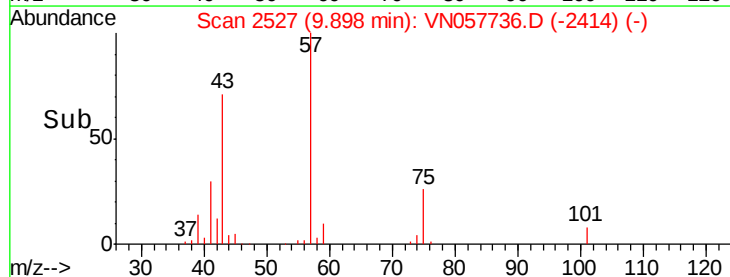
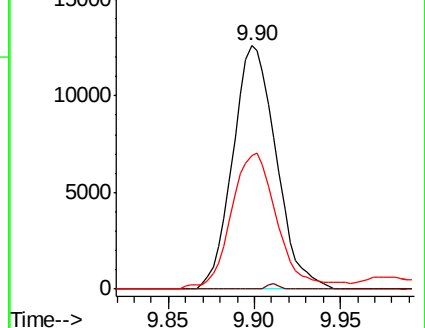
39 53.1 62.4 93.6#

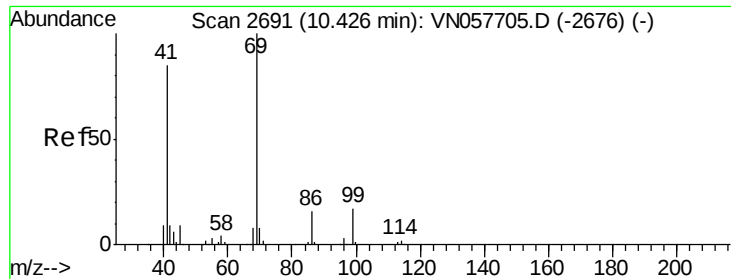


Abundance Ion 74.90 (74.60 to 75.60): VN057736.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN057736.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN057736.D (-2414) (-)





#56

Ethyl methacrylate

Concen: 0.254 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampleId :

T12-A2-(0)

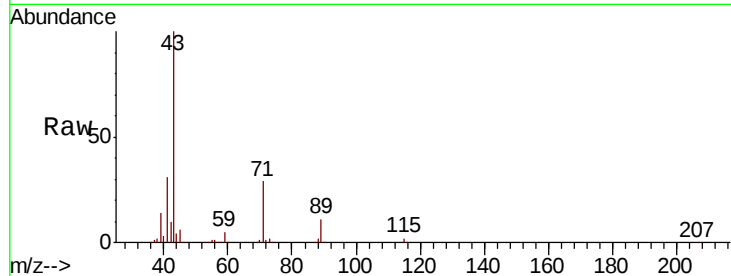
Tgt Ion: 69 Resp: 1179

Ion Ratio Lower Upper

69 100

41 6618.2 69.0 103.4#

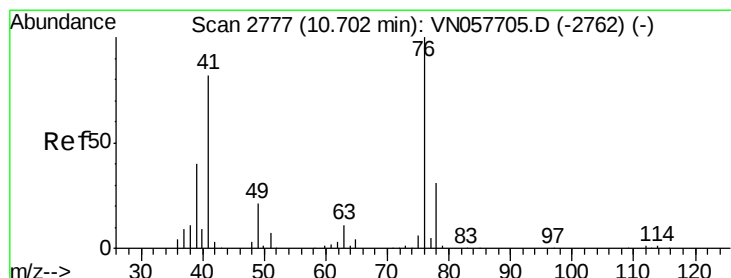
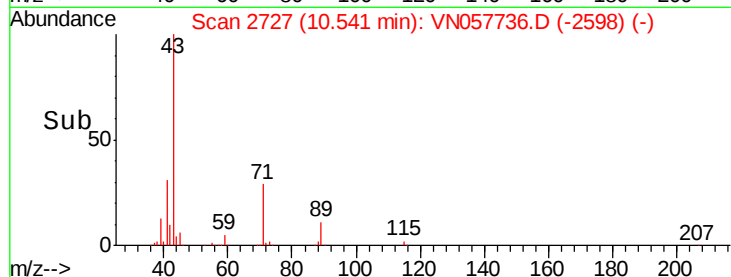
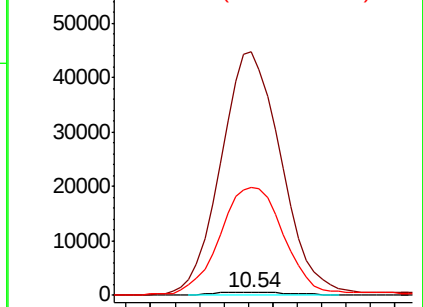
39 3151.9 49.2 73.8#



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: 0.519 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057736.D

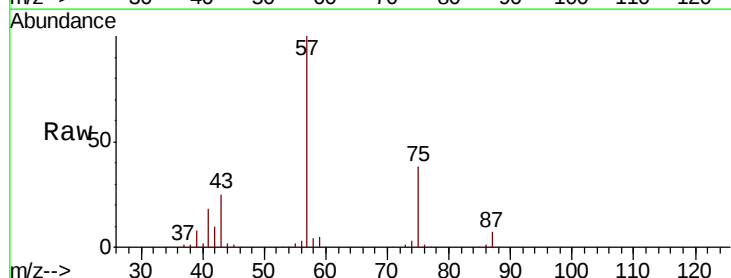
Acq: 7 Sep 2019 00:06

Tgt Ion: 76 Resp: 2706

Ion Ratio Lower Upper

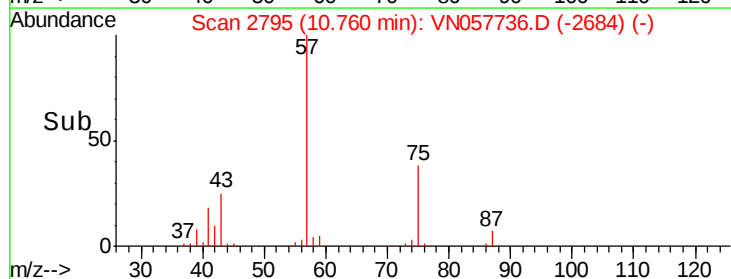
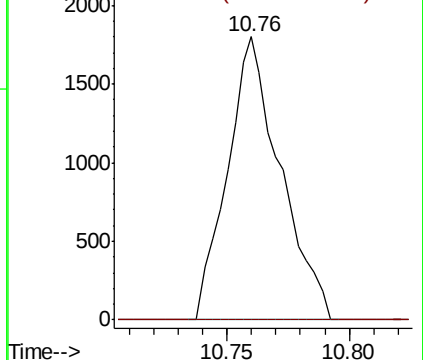
76 100

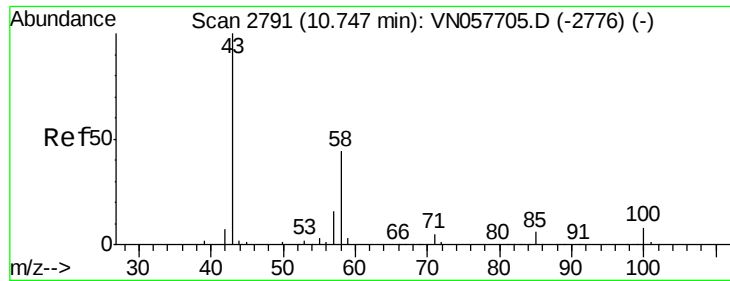
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

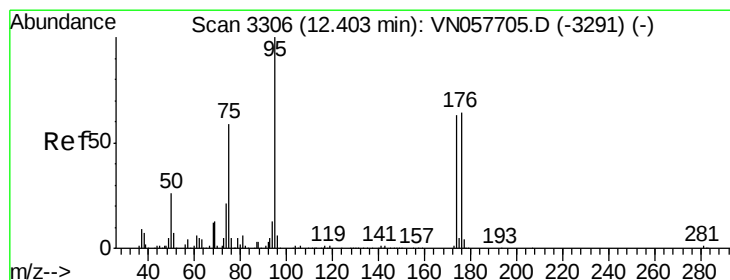
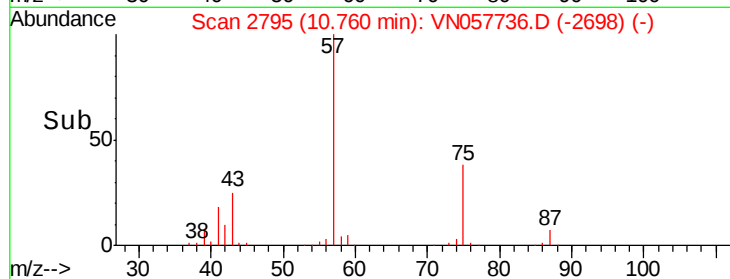
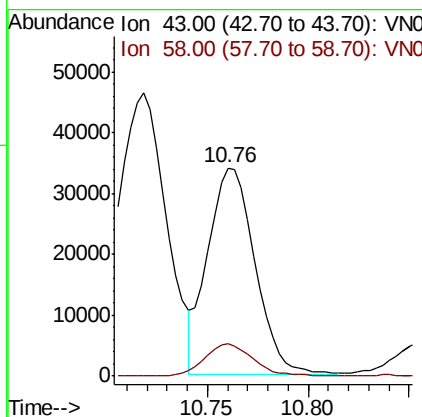
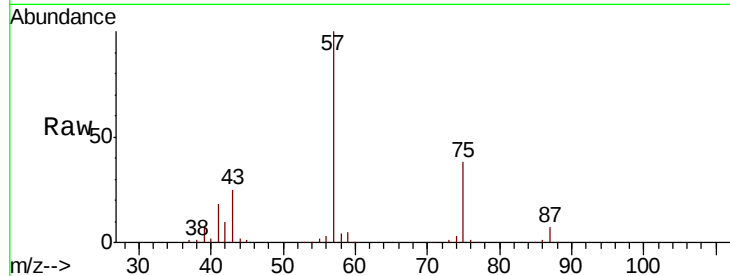




#59
2-Hexanone
Concen: 17.517 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

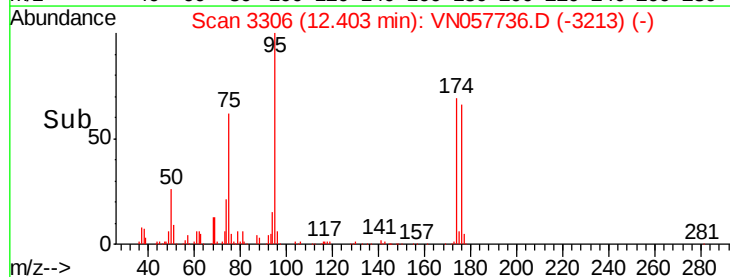
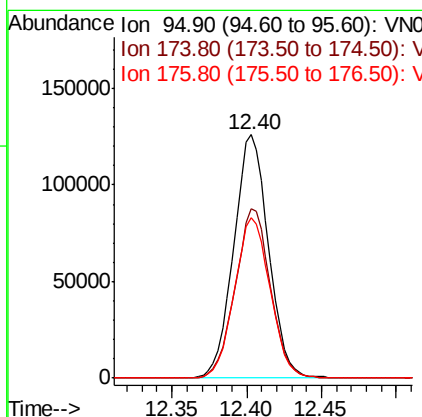
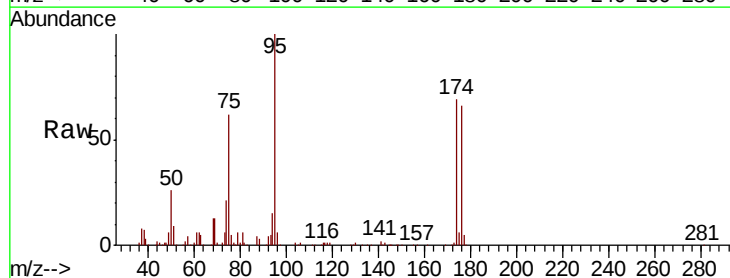
Instrument :
MSVOA_N
ClientSampled :
T12-A2-(0)

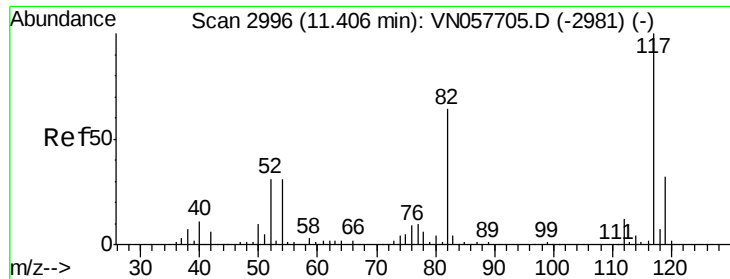
Tgt Ion: 43 Resp: 55048
Ion Ratio Lower Upper
43 100
58 16.2 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 45.957 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Tgt Ion: 95 Resp: 203594
Ion Ratio Lower Upper
95 100
174 70.6 0.0 128.0
176 67.8 0.0 128.0

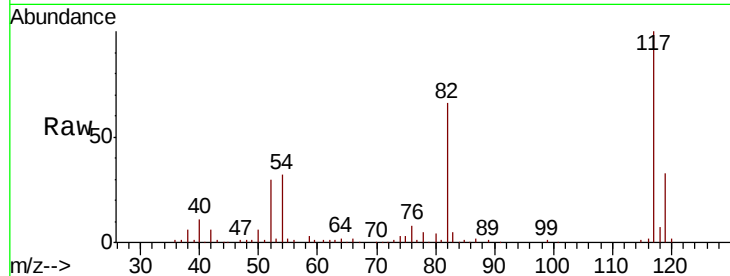




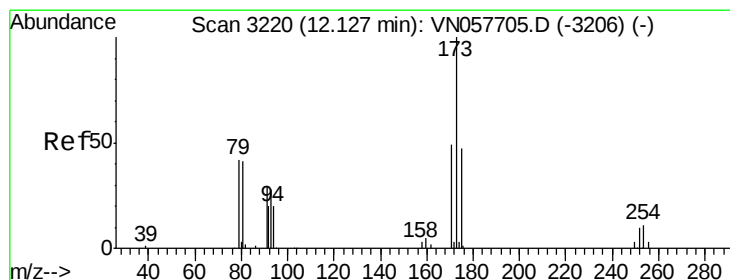
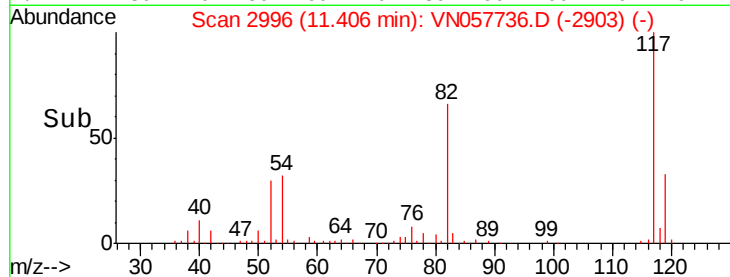
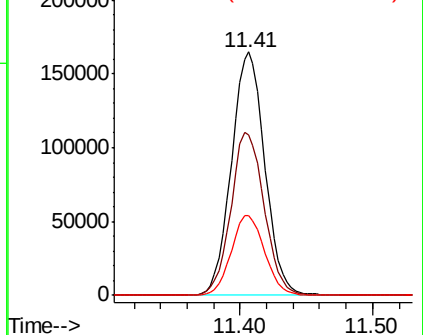
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Instrument :
MSVOA_N
ClientSampled :
T12-A2-(0)

Tgt Ion:117 Resp: 287884
Ion Ratio Lower Upper
117 100
82 66.0 51.4 77.0
119 32.9 25.4 38.2

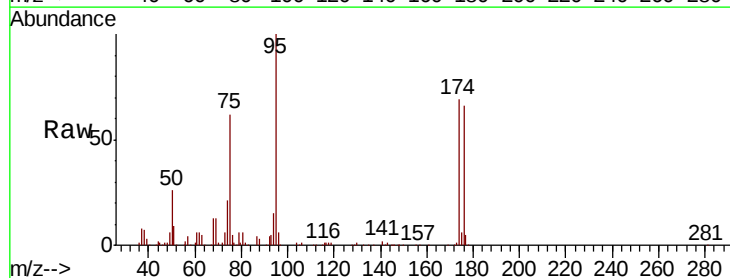


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

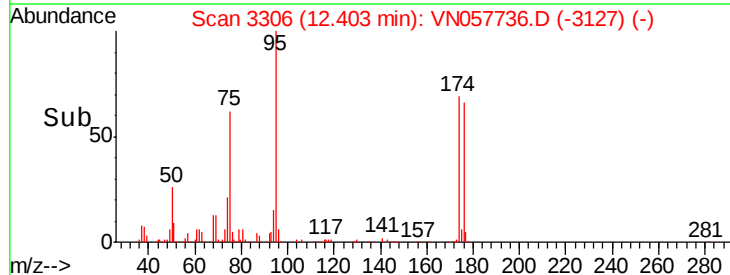
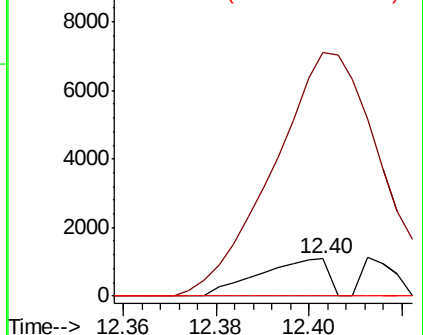


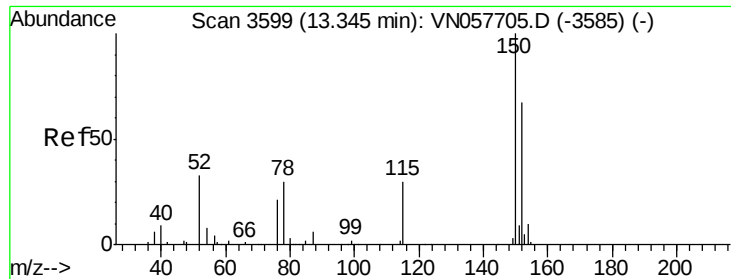
#71
Bromoform
Concen: 3.776 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN057736.D
Acq: 7 Sep 2019 00:06

Tgt Ion:173 Resp: 1115
Ion Ratio Lower Upper
173 100
175 861.4 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: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampleId :

T12-A2-(0)

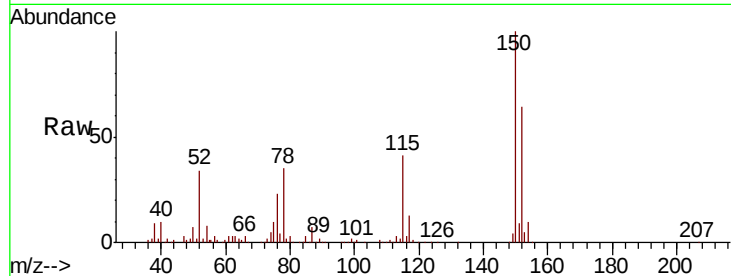
Tgt Ion:152 Resp: 148728

Ion Ratio Lower Upper

152 100

115 64.3 33.8 101.3

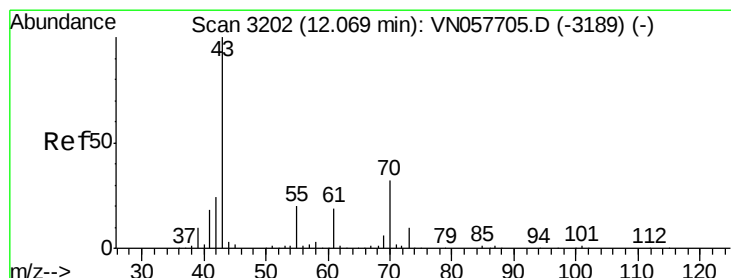
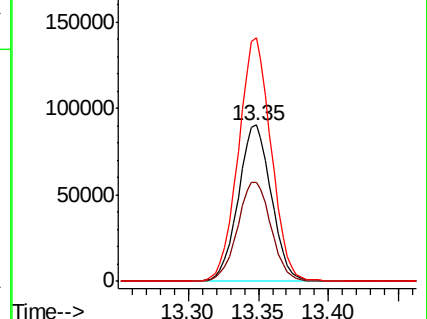
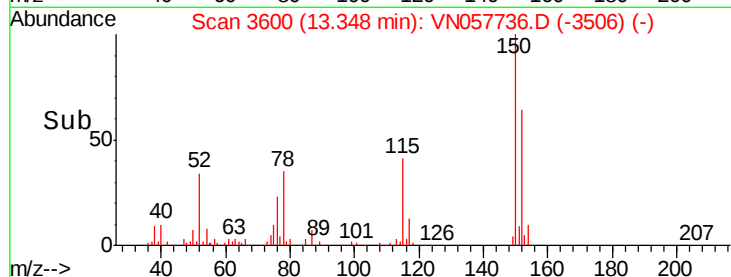
150 154.2 0.0 345.4



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: 0.644 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

Tgt Ion: 43 Resp: 4230

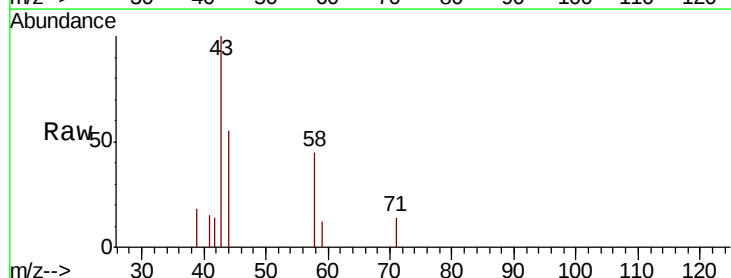
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 0.0 16.3 24.5#

61 0.0 15.0 22.4#

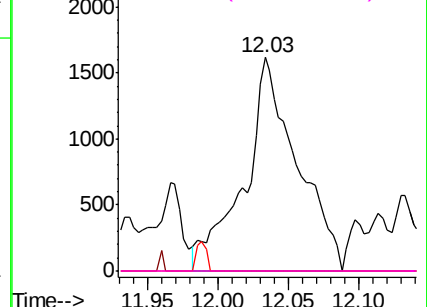
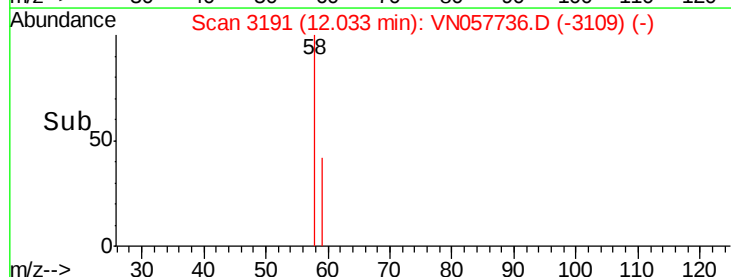


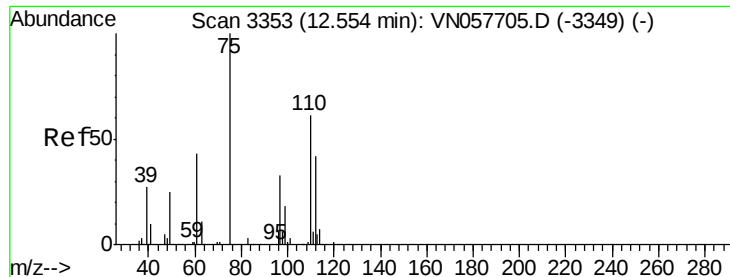
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 37.092 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

Instrument :

MSVOA_N

ClientSampleId :

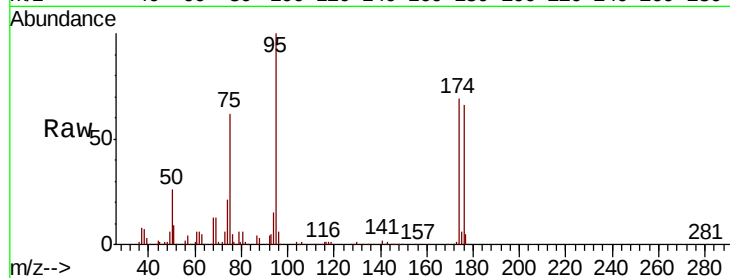
T12-A2-(0)

Tgt Ion: 75 Resp: 126682

Ion Ratio Lower Upper

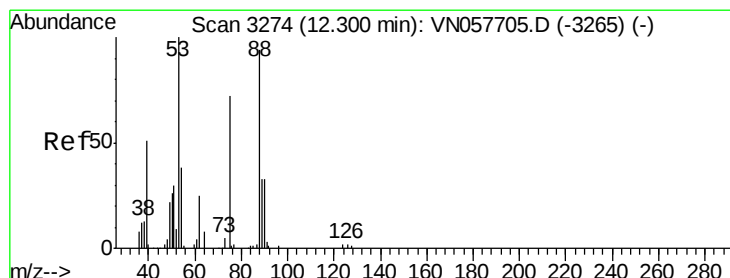
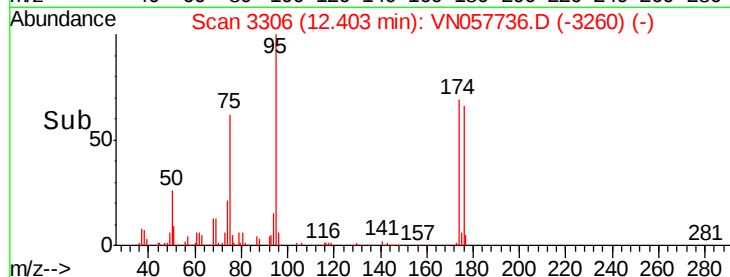
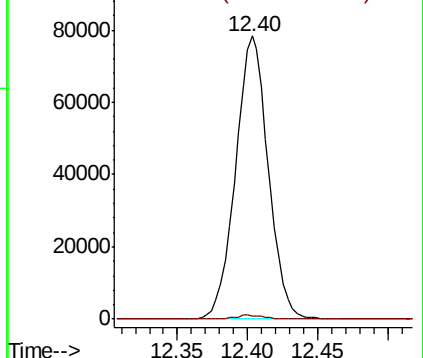
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 115.356 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057736.D

Acq: 7 Sep 2019 00:06

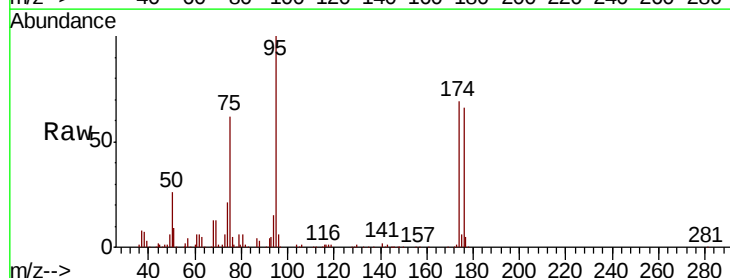
Tgt Ion: 75 Resp: 126682

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

