

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057731.D
 Acq On : 6 Sep 2019 22:17
 Operator : JC/SP
 Sample : K4580-30
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(3.5)

Quant Time: Sep 06 23:28:49 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	188882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	319466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	294725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	148299	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	248984	54.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.38%	
35) Dibromofluoromethane	7.57	113	146763	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
50) Toluene-d8	10.08	98	568401	52.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.60%	
62) 4-Bromofluorobenzene	12.40	95	212470	47.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.04%	

Target Compounds

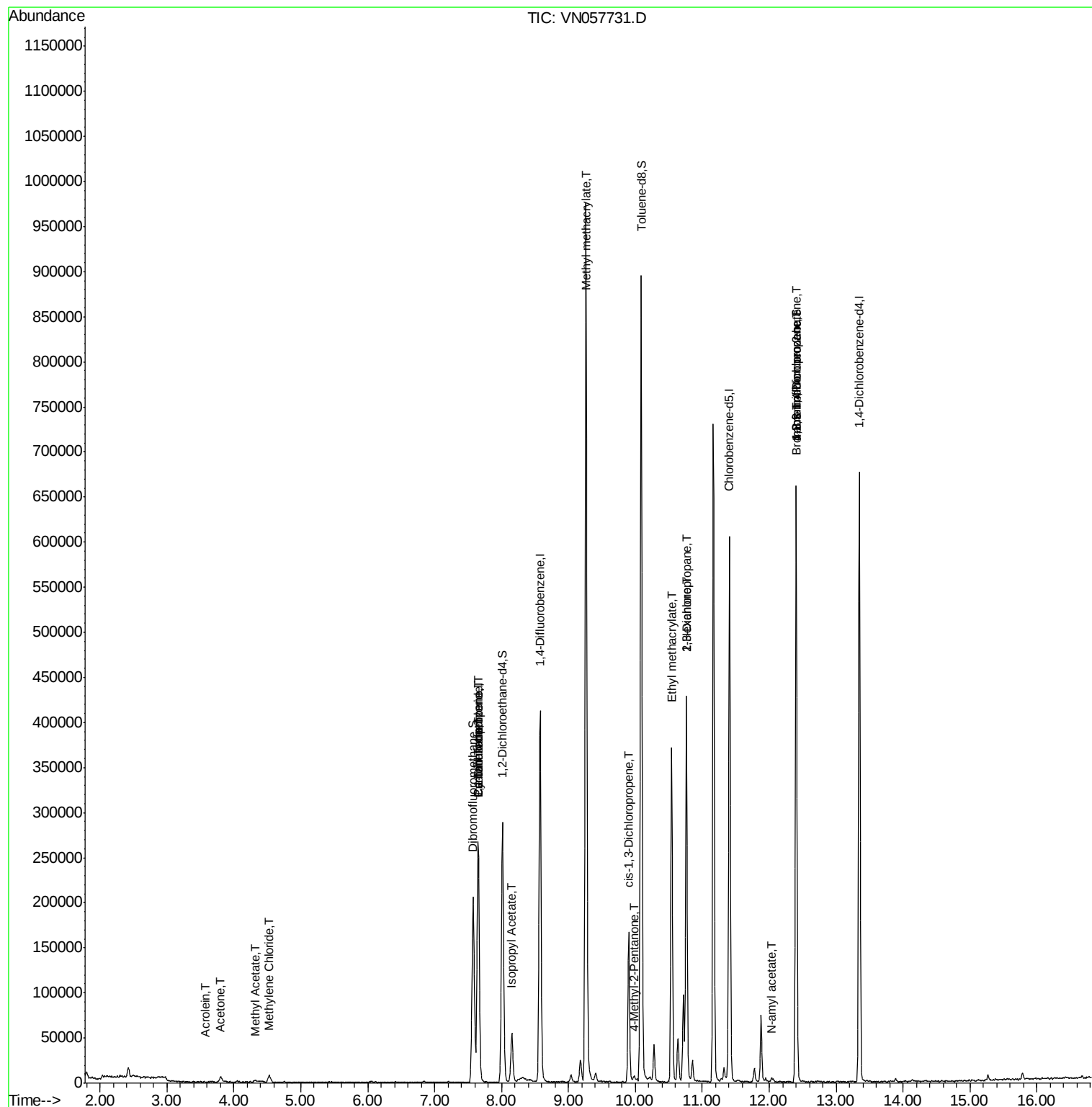
						Qvalue
3) Chloromethane	2.03	50	1438	Below Cal	#	84
13) Acrolein	3.58	56	83	0.334	ug/l #	15
16) Acetone	3.80	43	10476	7.409	ug/l	95
18) Methyl Acetate	4.31	43	1839	0.478	ug/l	95
20) Methylene Chloride	4.54	84	4726	1.546	ug/l	94
31) Cyclohexane	7.65	56	7142	1.385	ug/l #	38
36) 1,1-Dichloropropene	7.65	75	19139	4.503	ug/l #	52
38) Carbon Tetrachloride	7.65	117	21431	5.266	ug/l #	15
43) Isopropyl Acetate	8.15	43	66705	8.237	ug/l	99
48) Methyl methacrylate	9.26	41	105253	25.270	ug/l #	56
51) 4-Methyl-2-Pentanone	9.98	43	5420	1.205	ug/l #	61
54) cis-1,3-Dichloropropene	9.90	75	25954	5.224	ug/l #	60
56) Ethyl methacrylate	10.54	69	1526	0.326	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3960	0.752	ug/l #	43
59) 2-Hexanone	10.76	43	70615	22.265	ug/l #	59
71) Bromoform	12.39	173	240	3.354	ug/l #	1
74) N-amyl acetate	12.04	43	4630	0.707	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	126832	37.243	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	126832	115.827	ug/l #	1

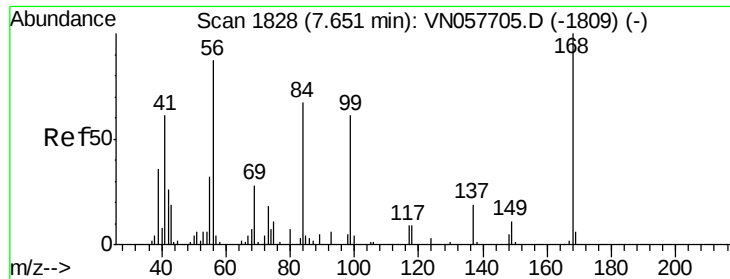
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampleId :

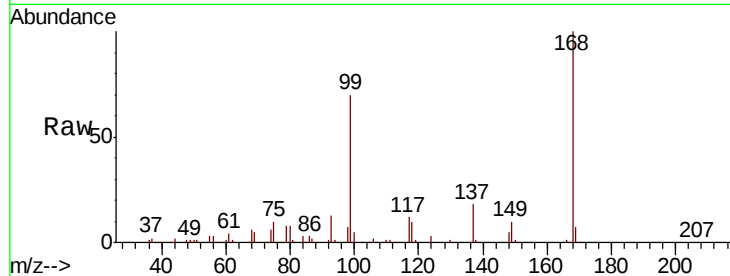
T12-B3-(3.5)

Tgt Ion:168 Resp: 188882

Ion Ratio Lower Upper

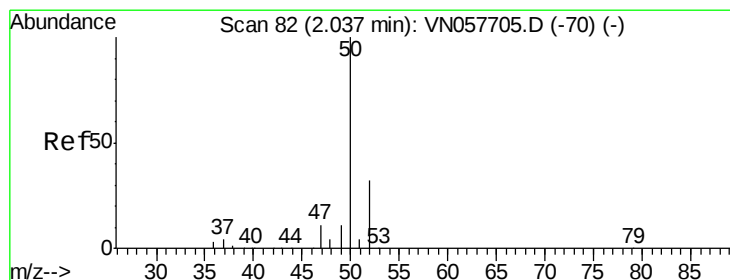
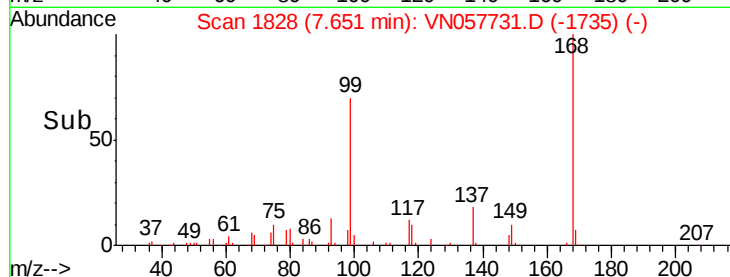
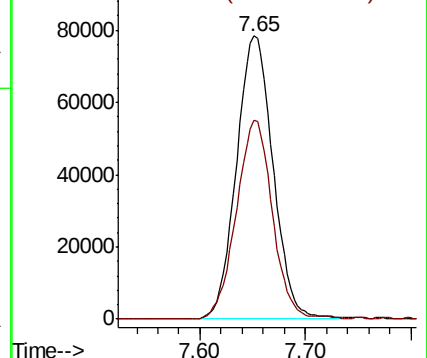
168 100

99 70.2 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: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057731.D

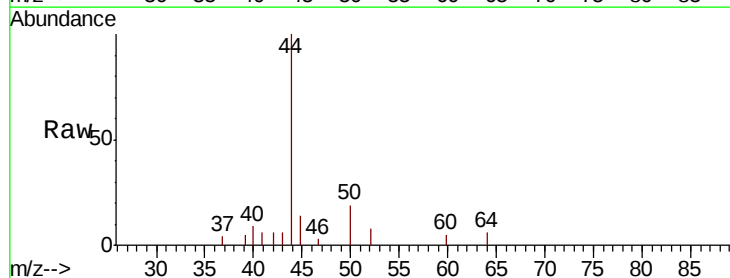
Acq: 6 Sep 2019 22:17

Tgt Ion: 50 Resp: 1438

Ion Ratio Lower Upper

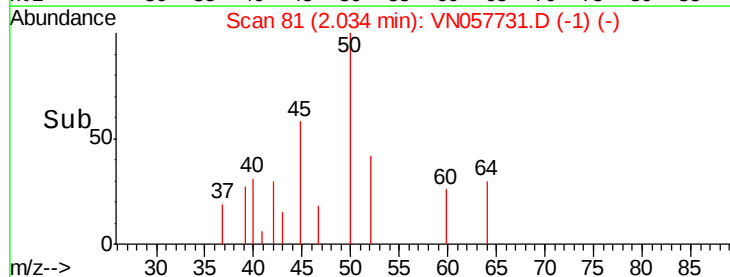
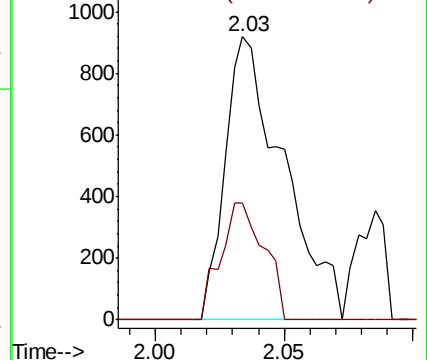
50 100

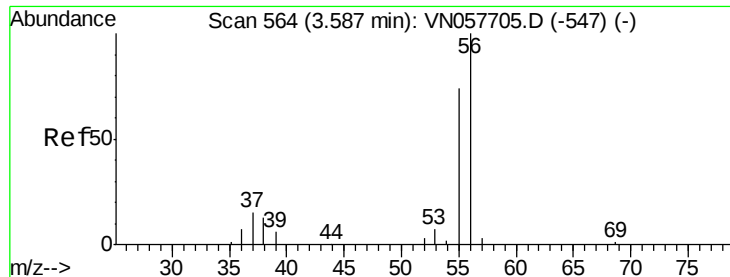
52 41.5 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#13

Acrolein

Concen: 0.334 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.01 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampleId :

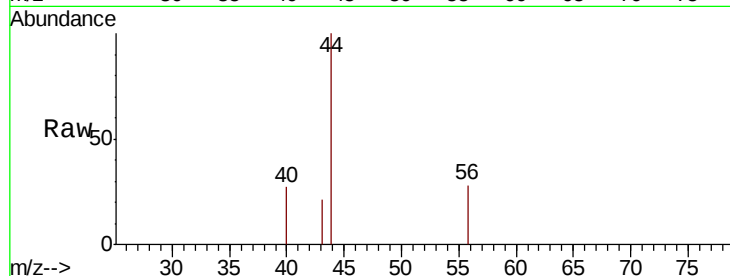
T12-B3-(3.5)

Tgt Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

55 0.0 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

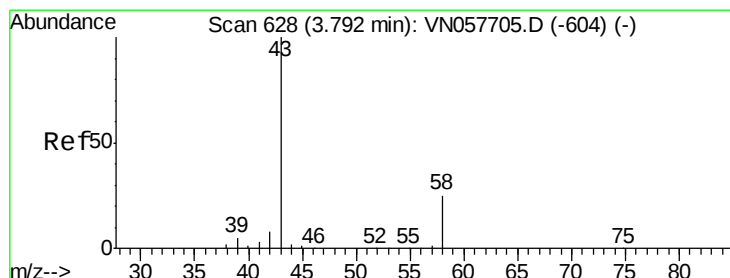
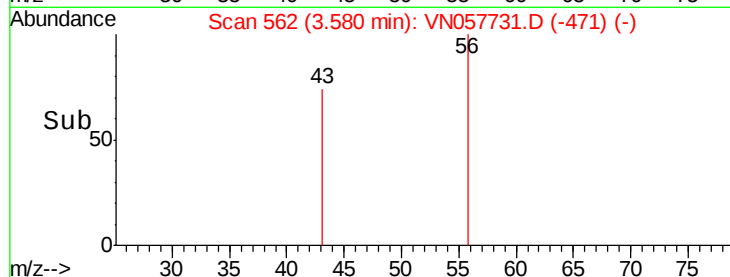
0

3.57

3.58

3.59

Time-->



#16

Acetone

Concen: 7.409 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057731.D

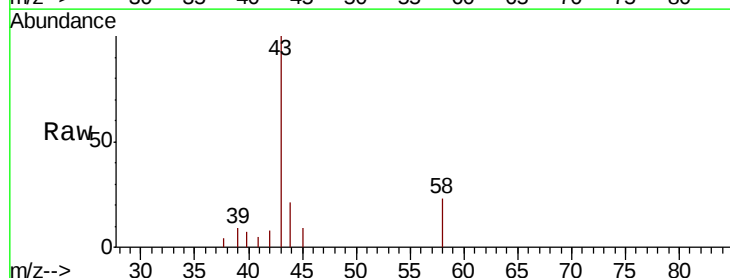
Acq: 6 Sep 2019 22:17

Tgt Ion: 43 Resp: 10476

Ion Ratio Lower Upper

43 100

58 22.5 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

3.70

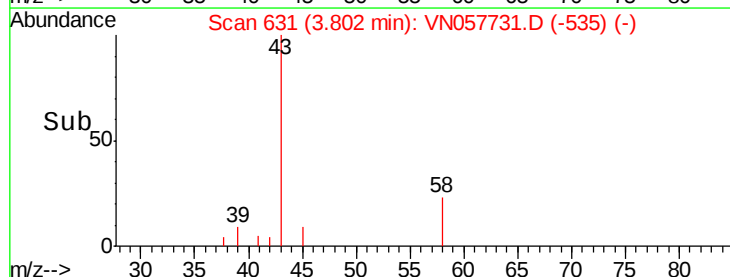
3.75

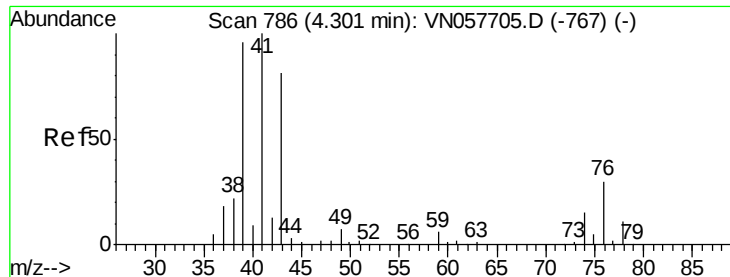
3.80

3.85

3.90

Time-->

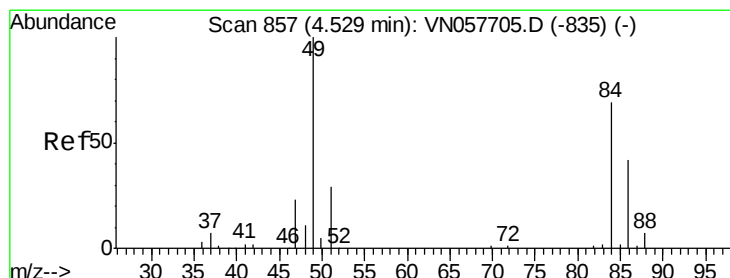
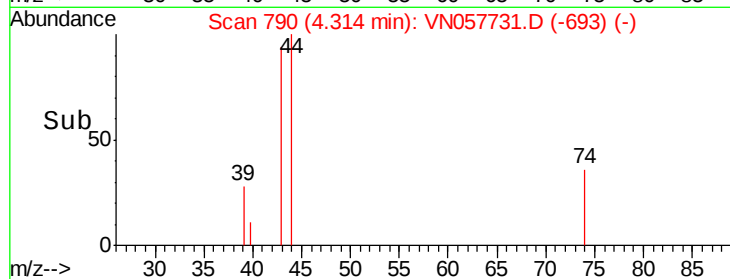
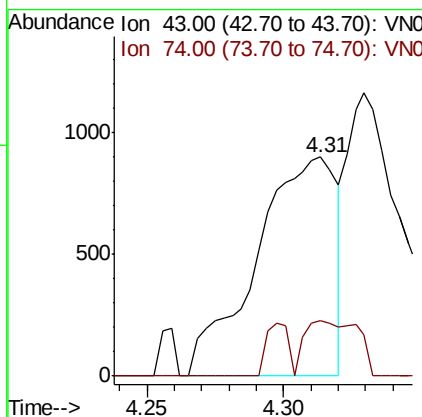
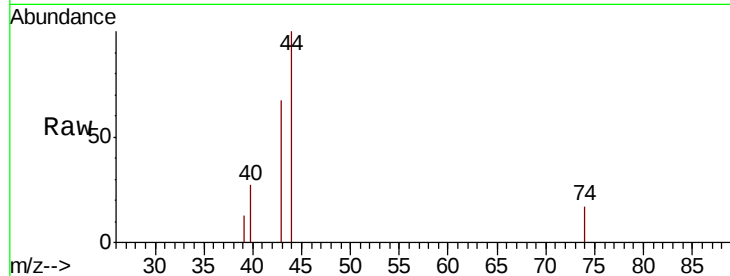




#18
Methyl Acetate
Concen: 0.478 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057731.D
Acq: 6 Sep 2019 22:17

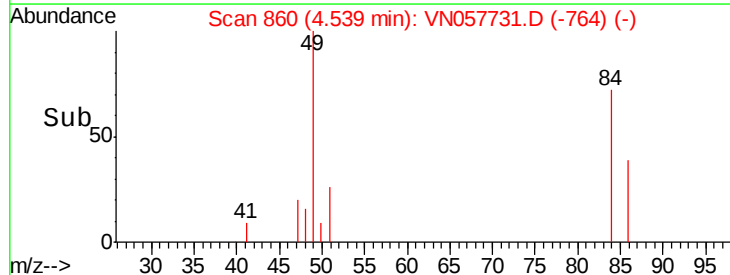
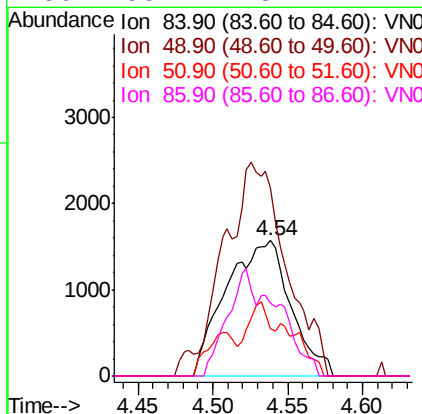
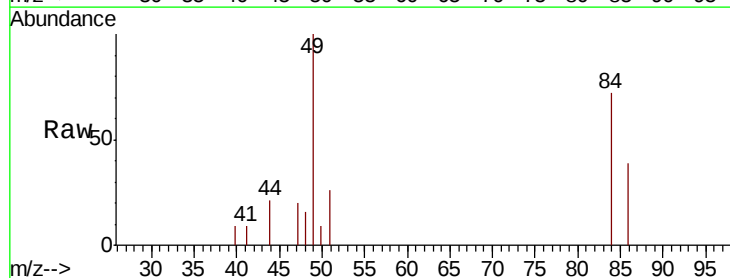
Instrument :
MSVOA_N
ClientSampled :
T12-B3-(3.5)

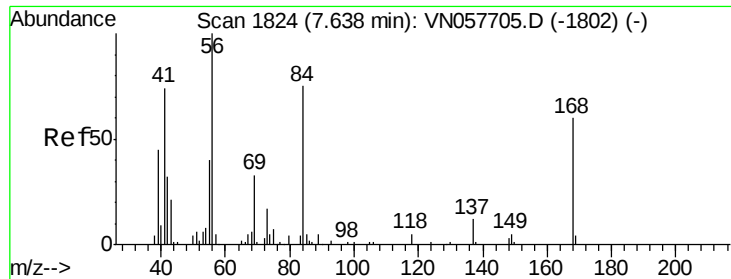
Tgt Ion: 43 Resp: 1839
Ion Ratio Lower Upper
43 100
74 16.9 15.3 22.9



#20
Methylene Chloride
Concen: 1.546 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057731.D
Acq: 6 Sep 2019 22:17

Tgt Ion: 84 Resp: 4726
Ion Ratio Lower Upper
84 100
49 139.0 115.0 172.6
51 35.5 33.8 50.8
86 53.7 48.2 72.2

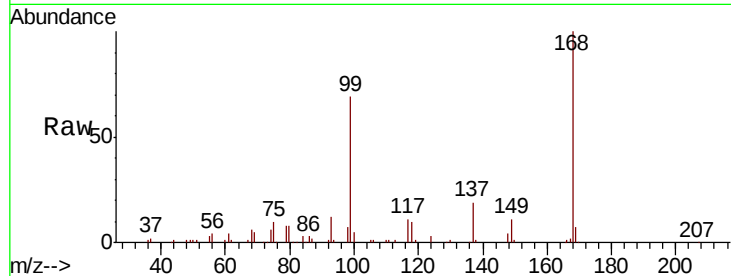




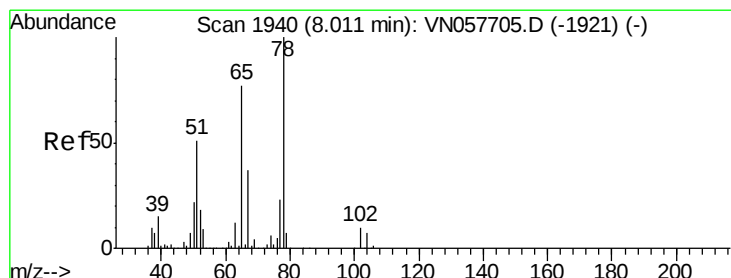
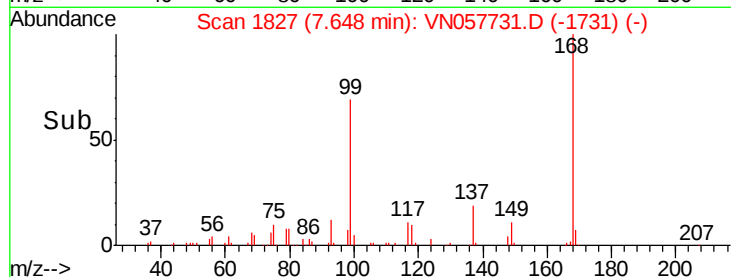
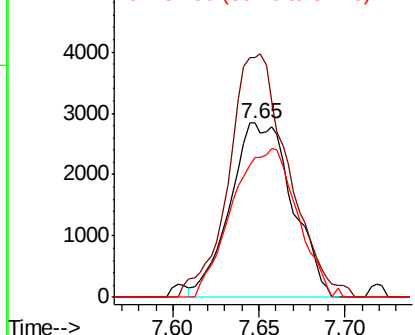
#31
Cyclohexane
Concen: 1.385 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057731.D
Acq: 6 Sep 2019 22:17

Instrument :
MSVOA_N
ClientSampleId :
T12-B3-(3.5)

Tgt Ion: 56 Resp: 7142
Ion Ratio Lower Upper
56 100
69 130.1 26.2 39.2#
84 86.1 59.8 89.8

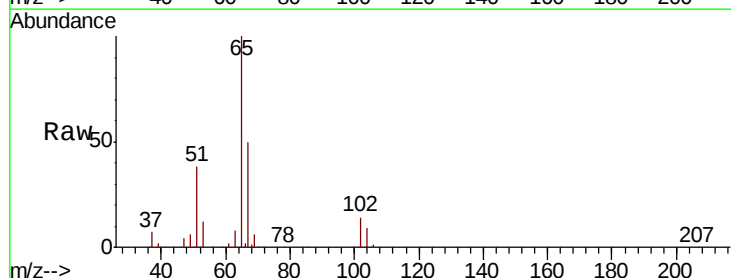


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

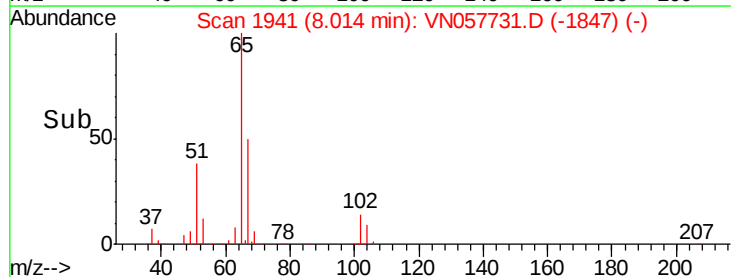
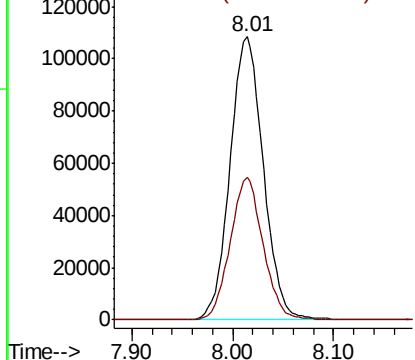


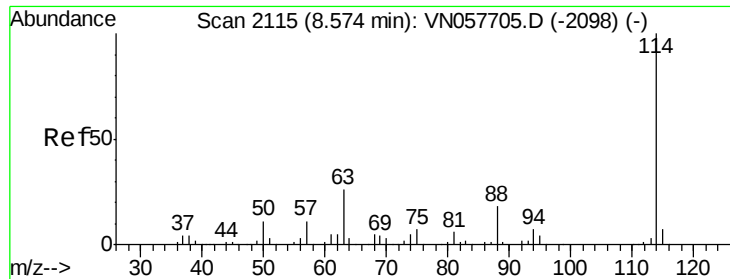
#33
1,2-Dichloroethane-d4
Concen: 54.187 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057731.D
Acq: 6 Sep 2019 22:17

Tgt Ion: 65 Resp: 248984
Ion Ratio Lower Upper
65 100
67 49.7 0.0 98.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

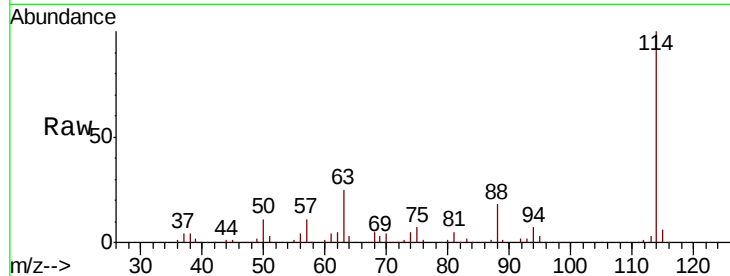




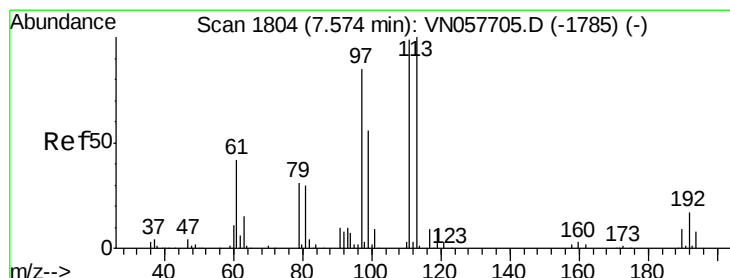
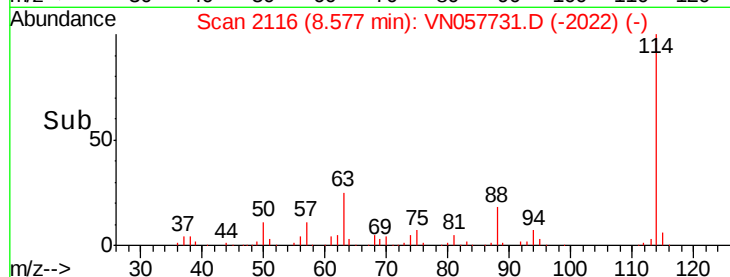
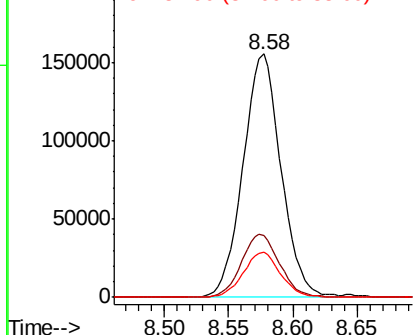
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(3.5)

Tgt Ion:114 Resp: 319466
 Ion Ratio Lower Upper
 114 100
 63 25.5 0.0 52.4
 88 18.3 0.0 35.4

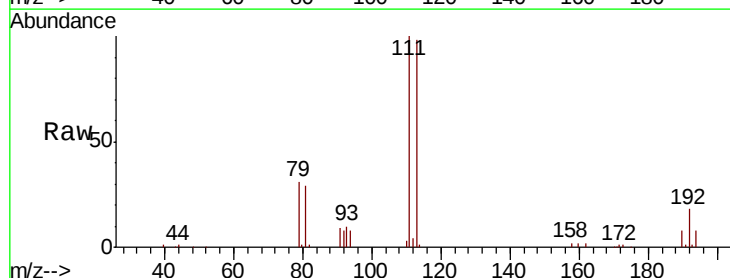


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

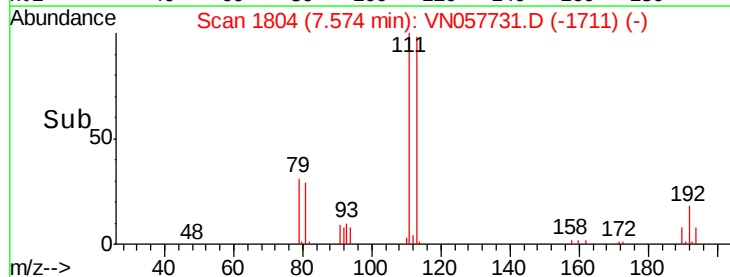
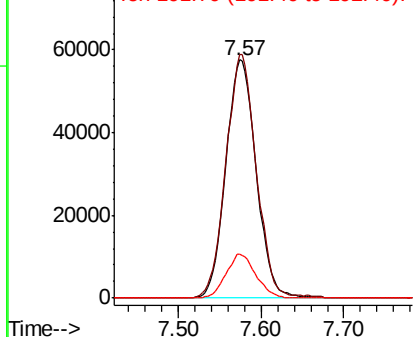


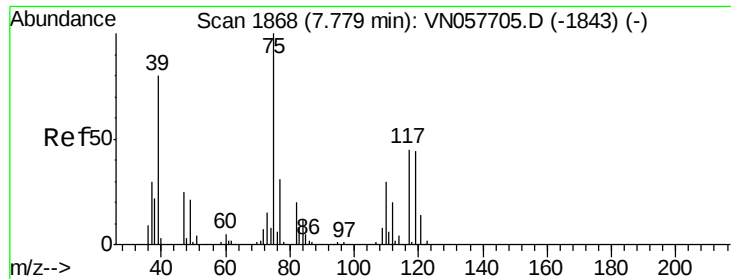
#35
 Dibromofluoromethane
 Concen: 50.437 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

Tgt Ion:113 Resp: 146763
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.7 124.1
 192 18.2 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

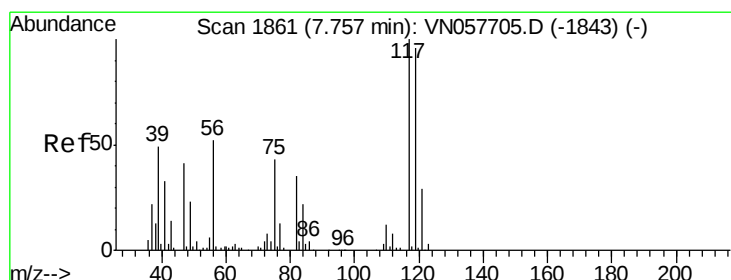
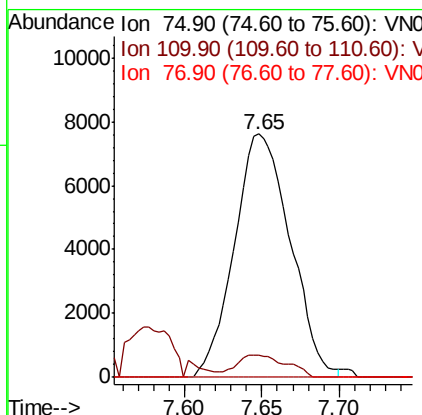
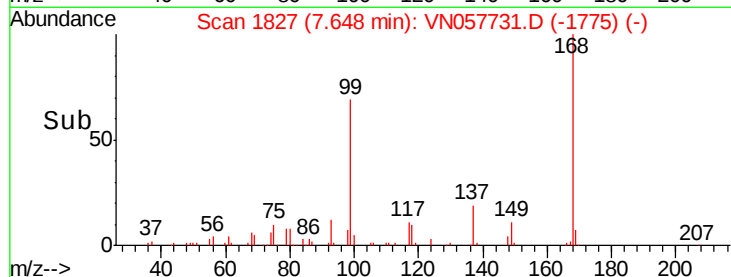
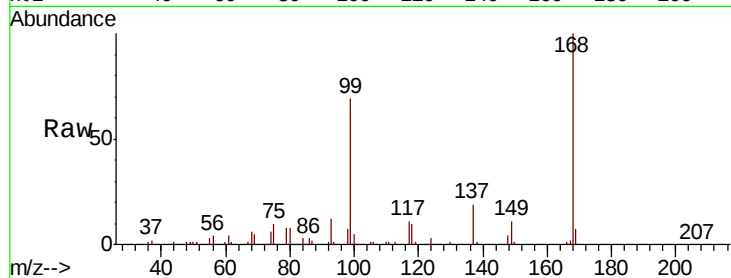




#36
 1,1-Dichloropropene
 Concen: 4.503 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

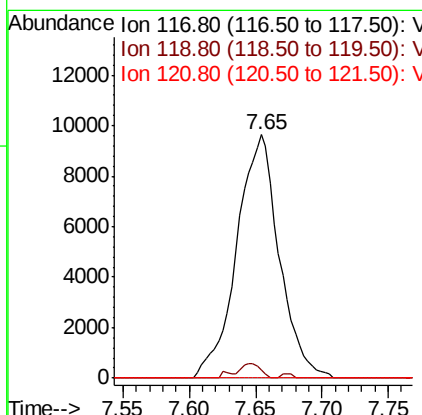
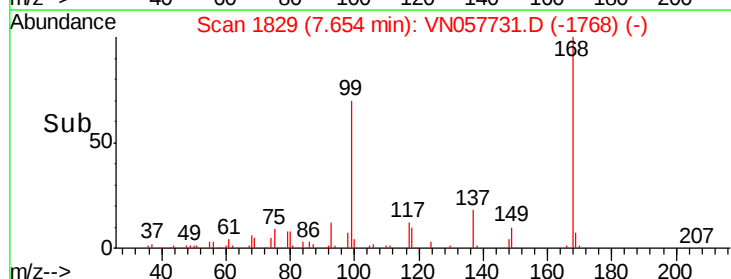
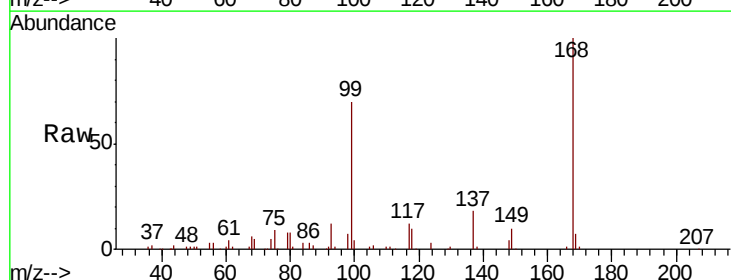
Instrument :
 MSVOA_N
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 T12-B3-(3.5)

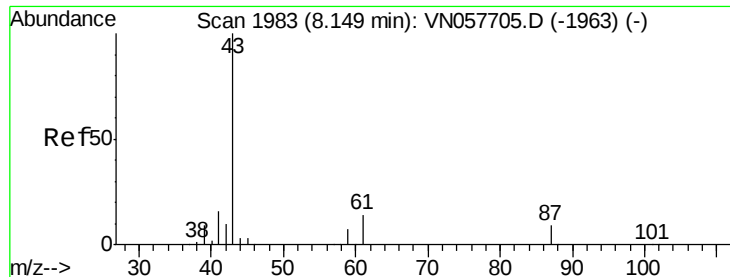
Tgt Ion: 75 Resp: 19139
 Ion Ratio Lower Upper
 75 100
 110 8.2 15.0 45.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.266 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

Tgt Ion: 117 Resp: 21431
 Ion Ratio Lower Upper
 117 100
 119 3.5 76.1 114.1#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 8.237 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(3.5)

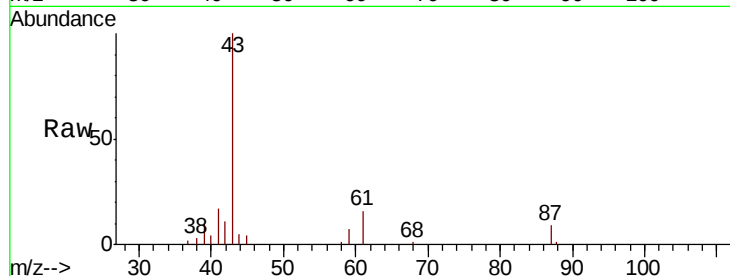
Tgt Ion: 43 Resp: 66705

Ion Ratio Lower Upper

43 100

61 16.7 12.8 19.2

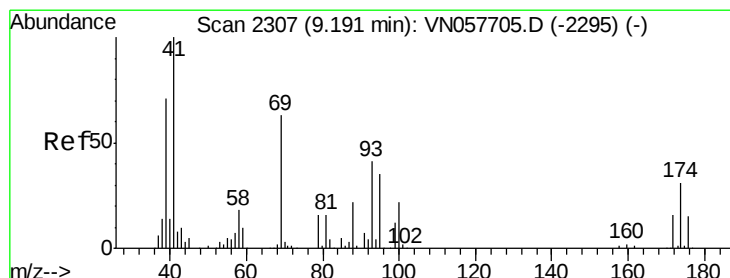
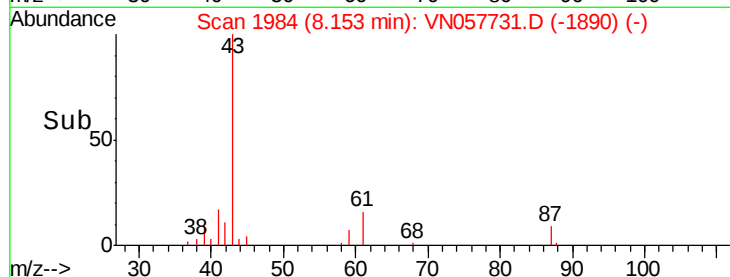
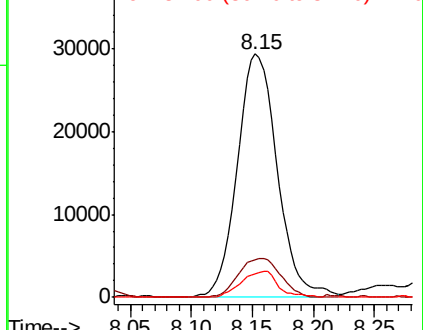
87 9.8 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN057731.D (-2189) (-)

Ion 61.00 (60.70 to 61.70): VN057731.D (-2189) (-)

Ion 87.00 (86.70 to 87.70): VN057731.D (-2189) (-)



#48

Methyl methacrylate

Concen: 25.270 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

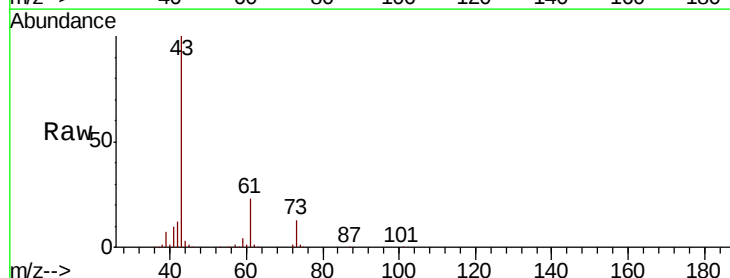
Tgt Ion: 41 Resp: 105253

Ion Ratio Lower Upper

41 100

69 0.0 51.2 76.8#

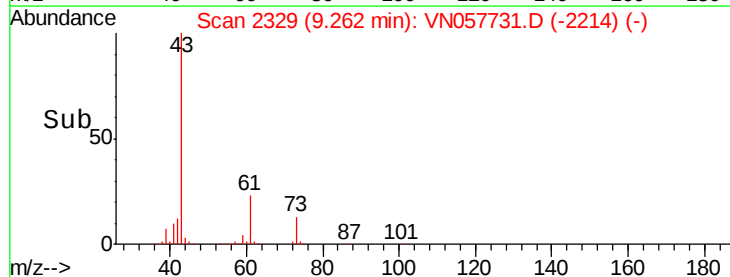
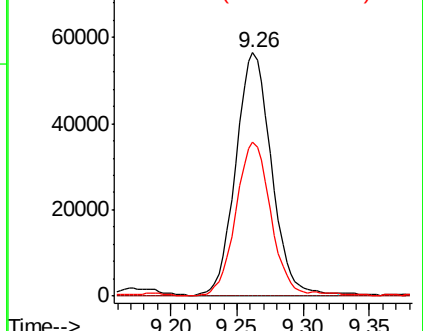
39 62.4 57.3 85.9

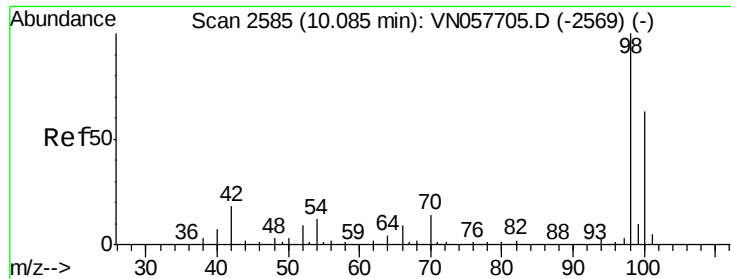


Abundance Ion 41.00 (40.70 to 41.70): VN057731.D (-2214) (-)

Ion 69.00 (68.70 to 69.70): VN057731.D (-2214) (-)

Ion 39.00 (38.70 to 39.70): VN057731.D (-2214) (-)





#50

Toluene-d8

Concen: 52.805 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampled :

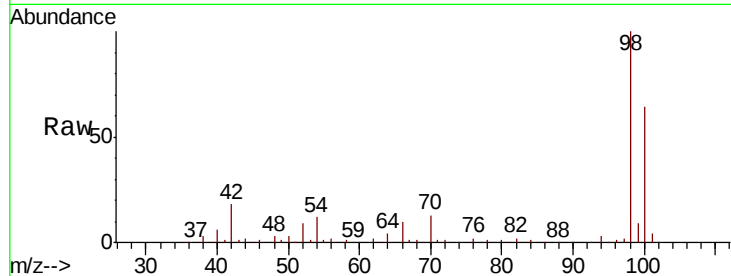
T12-B3-(3.5)

Tgt Ion: 98 Resp: 568401

Ion Ratio Lower Upper

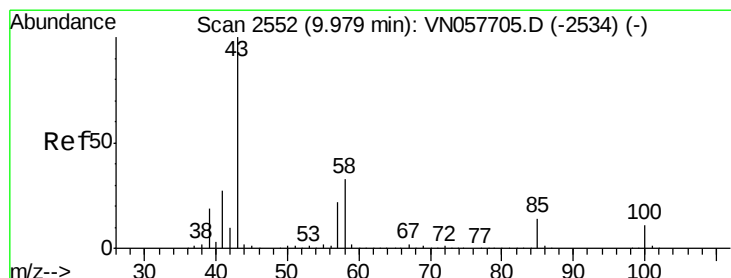
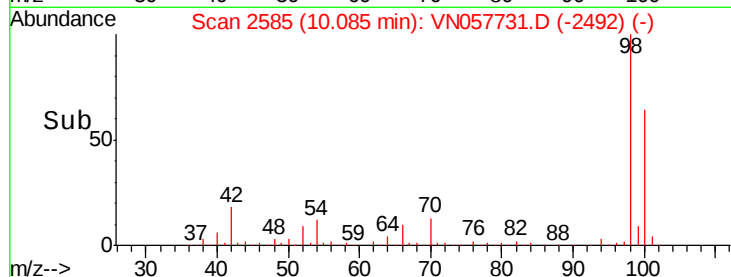
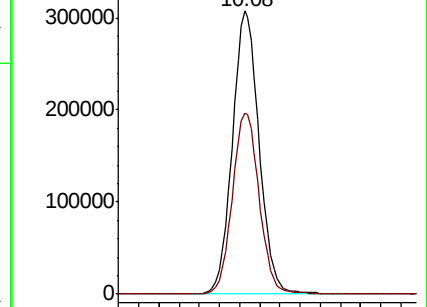
98 100

100 64.3 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057731.D (-2492) (-)

Ion 100.00 (99.70 to 100.70): VN057731.D (-2492) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.205 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057731.D

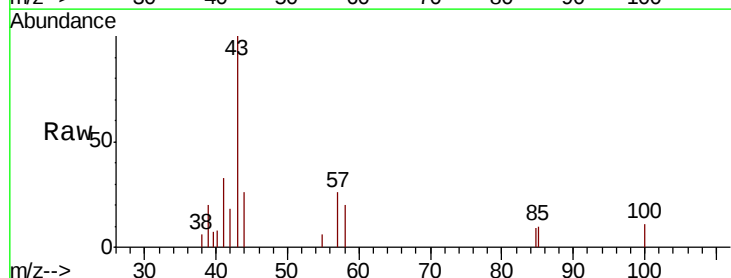
Acq: 6 Sep 2019 22:17

Tgt Ion: 43 Resp: 5420

Ion Ratio Lower Upper

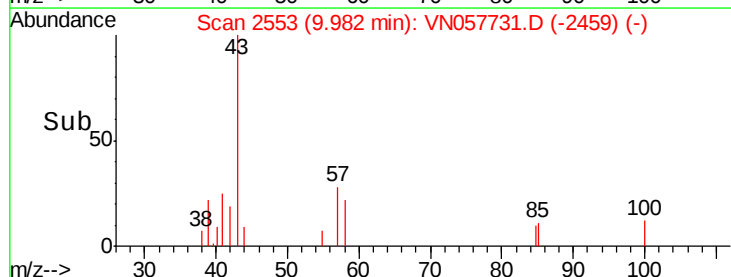
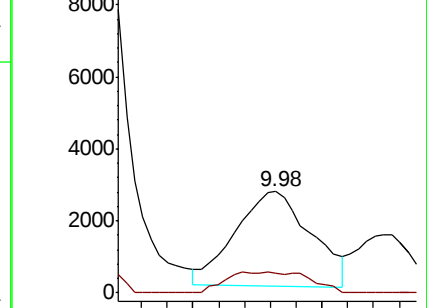
43 100

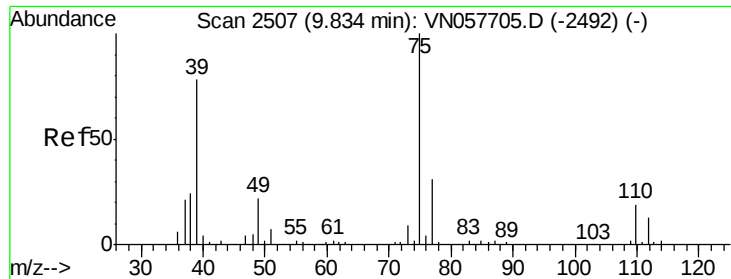
58 10.7 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057731.D (-2459) (-)

Ion 58.00 (57.70 to 58.70): VN057731.D (-2459) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.224 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(3.5)

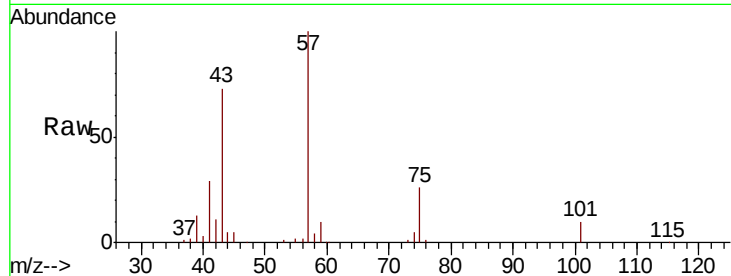
Tgt Ion: 75 Resp: 25954

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 48.5 62.4 93.6#

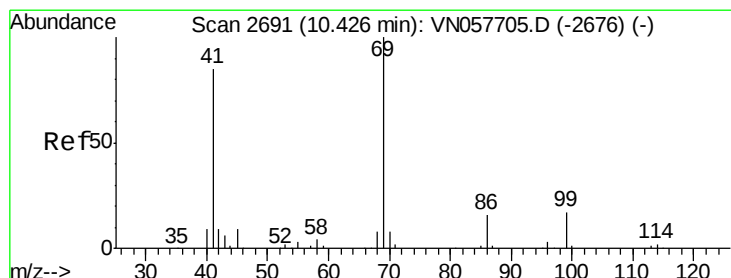
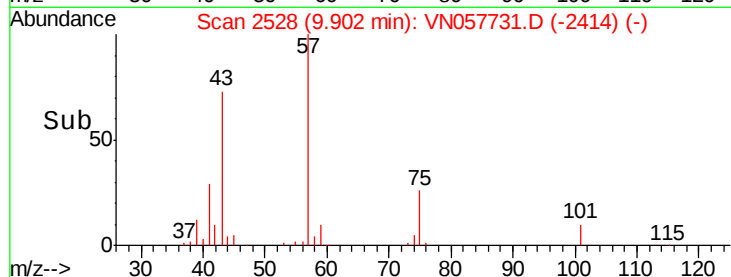
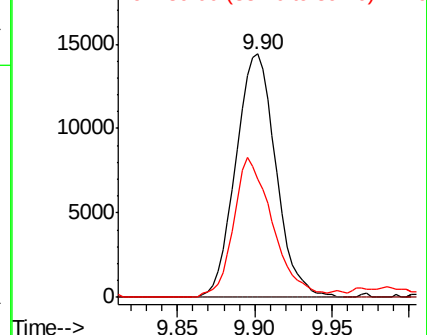


Abundance

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: 0.326 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

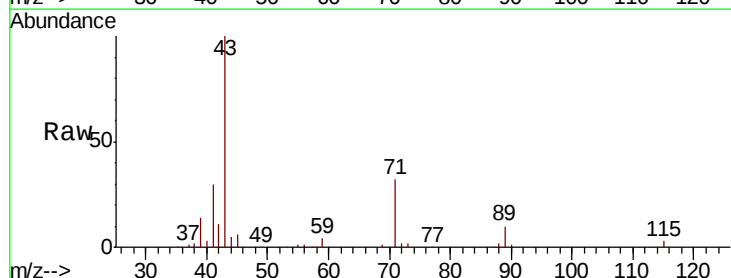
Tgt Ion: 69 Resp: 1526

Ion Ratio Lower Upper

69 100

41 5426.1 69.0 103.4#

39 2601.6 49.2 73.8#

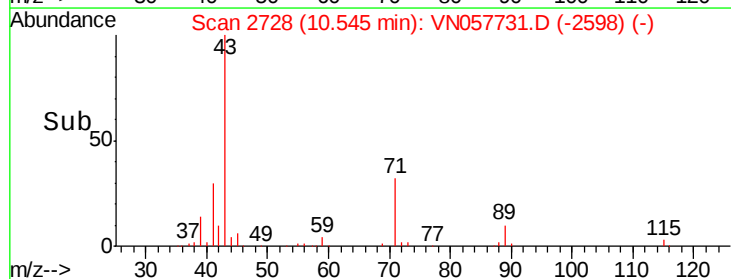
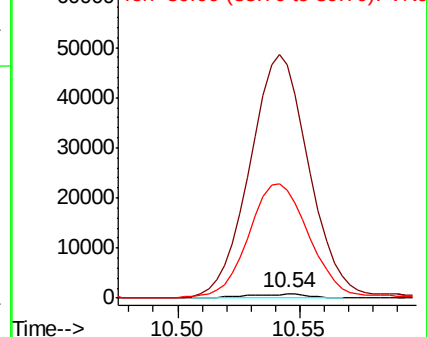


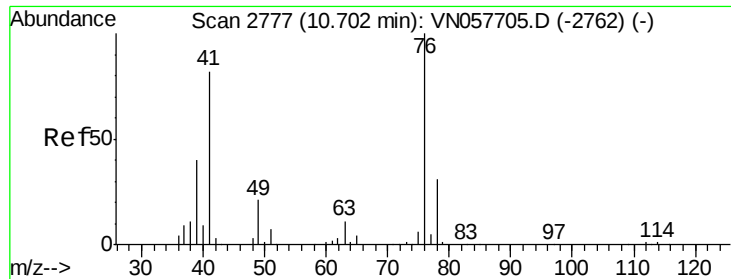
Abundance

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

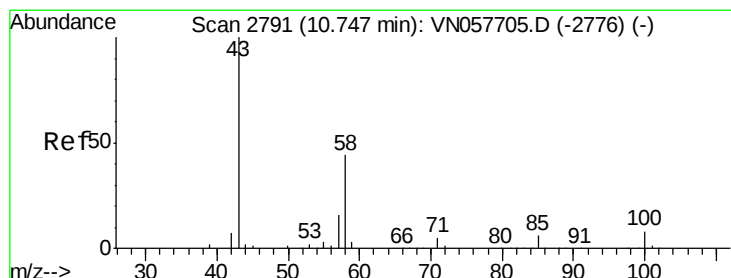
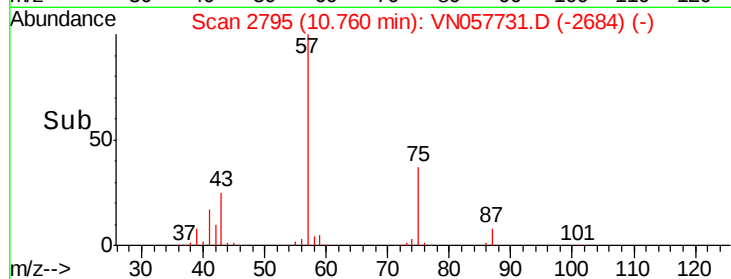
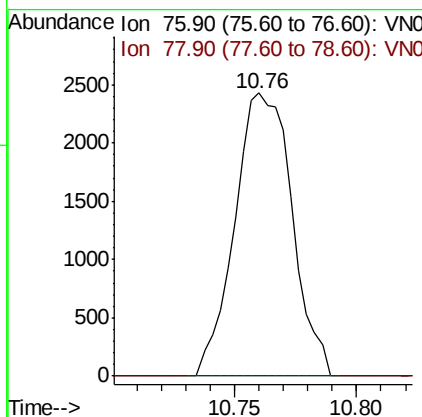
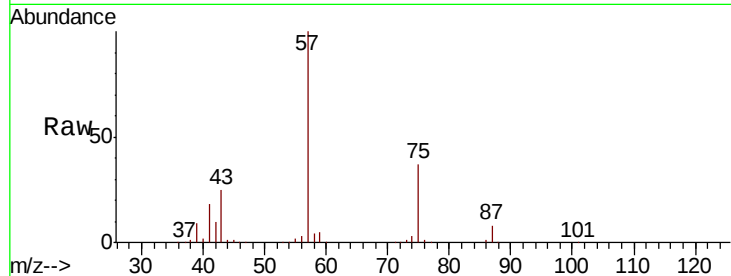




#57
 1,3-Dichloropropane
 Concen: 0.752 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

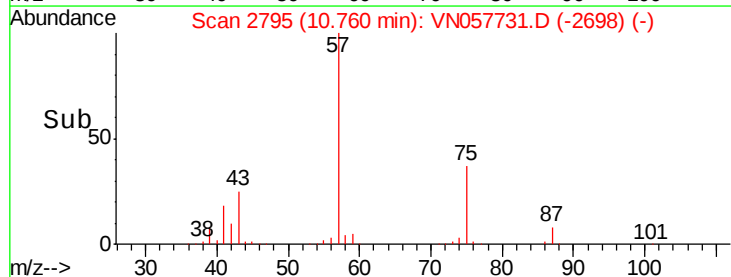
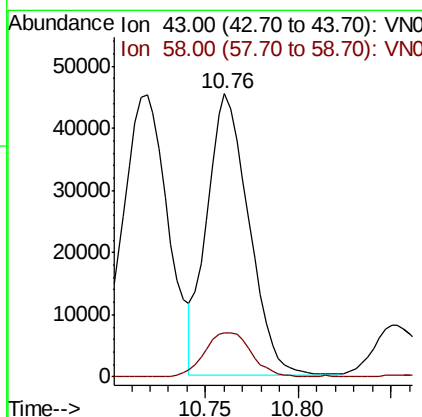
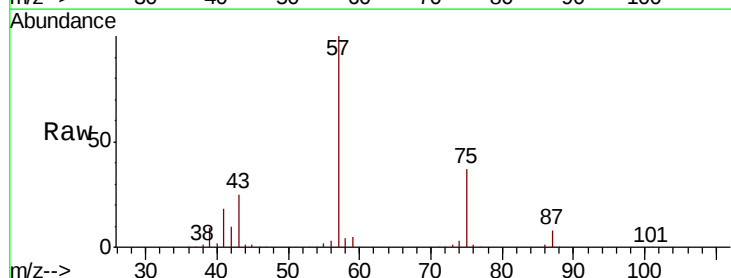
Instrument :
 MSVOA_N
 ClientSampled :
 T12-B3-(3.5)

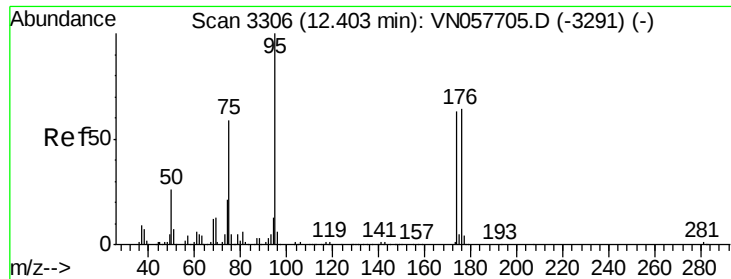
Tgt Ion: 76 Resp: 3960
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 22.265 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

Tgt Ion: 43 Resp: 70615
 Ion Ratio Lower Upper
 43 100
 58 17.7 22.1 66.5#

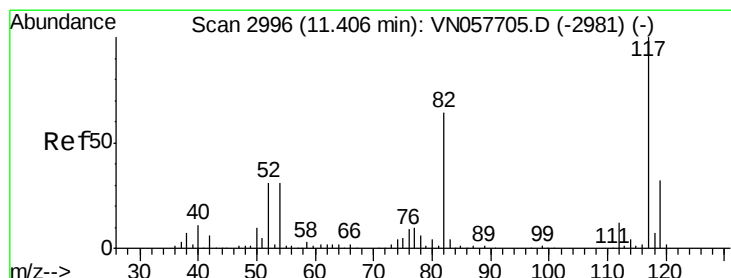
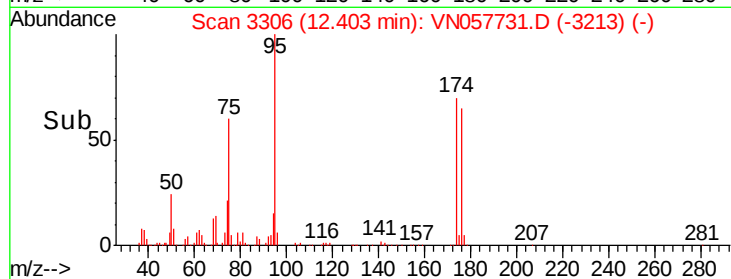
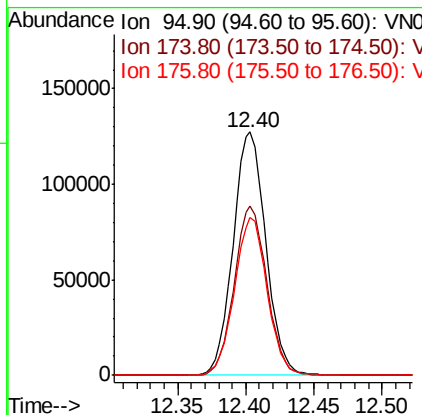
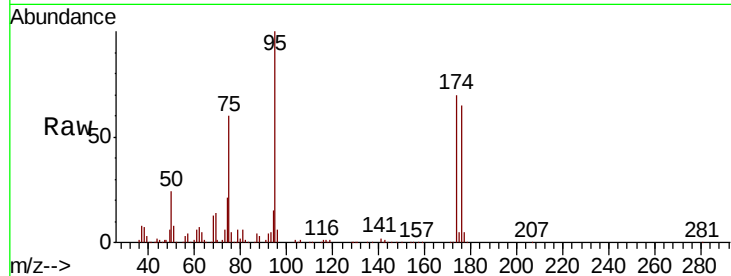




#62
 4-Bromofluorobenzene
 Concen: 47.522 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

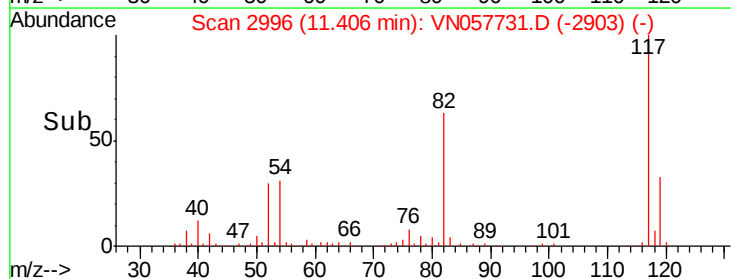
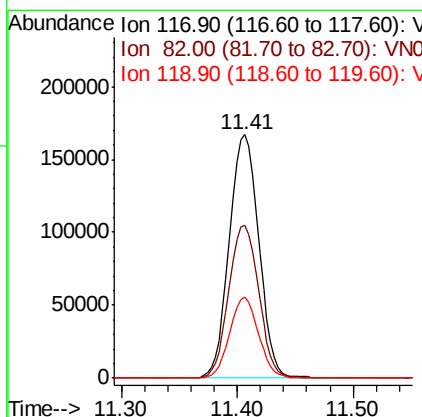
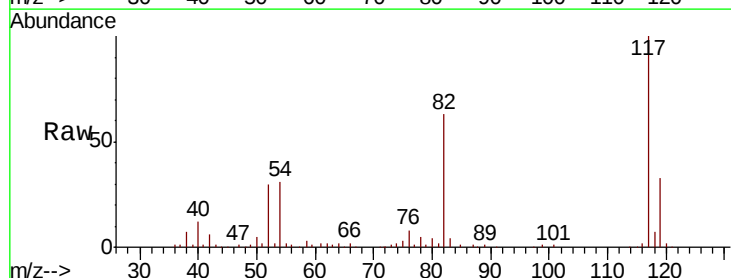
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(3.5)

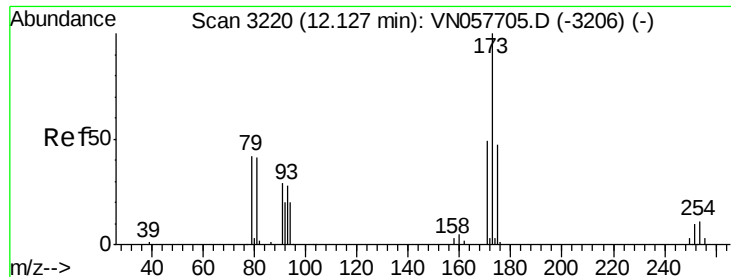
Tgt Ion: 95 Resp: 212470
 Ion Ratio Lower Upper
 95 100
 174 69.0 0.0 128.0
 176 64.8 0.0 128.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057731.D
 Acq: 6 Sep 2019 22:17

Tgt Ion: 117 Resp: 294725
 Ion Ratio Lower Upper
 117 100
 82 62.9 51.4 77.0
 119 33.2 25.4 38.2





#71

Bromoform

Concen: 3.354 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampled :

T12-B3-(3.5)

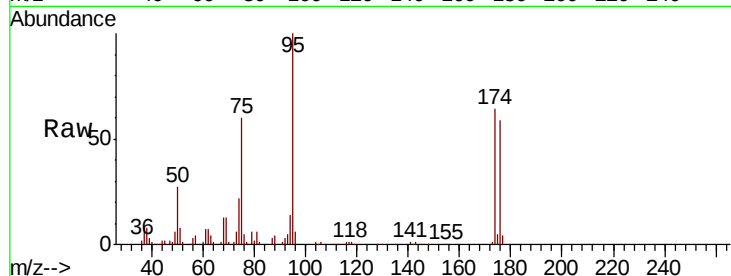
Tgt Ion:173 Resp: 240

Ion Ratio Lower Upper

173 100

175 3993.8 24.6 73.8#

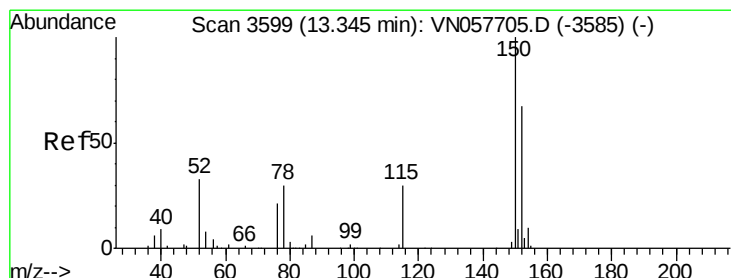
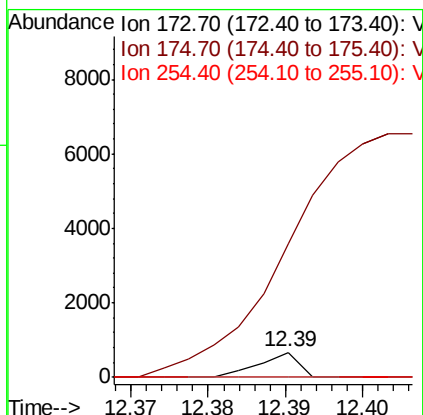
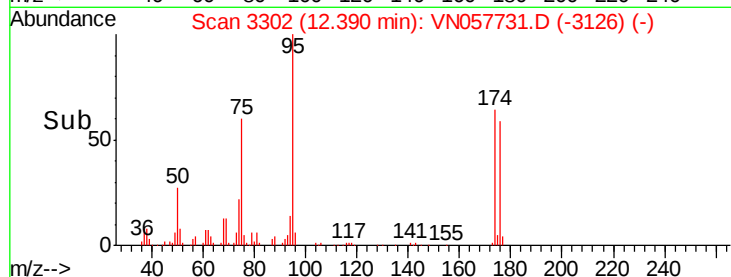
254 0.0 0.0 0.0



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: VN057731.D

Acq: 6 Sep 2019 22:17

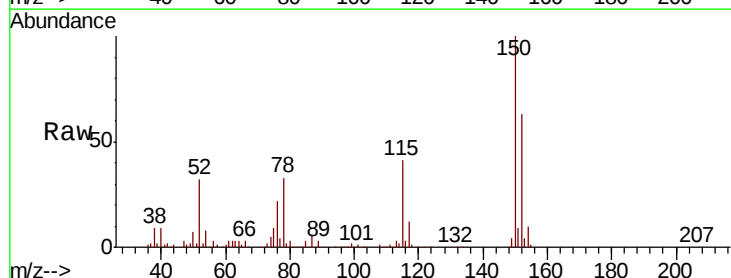
Tgt Ion:152 Resp: 148299

Ion Ratio Lower Upper

152 100

115 65.9 33.8 101.3

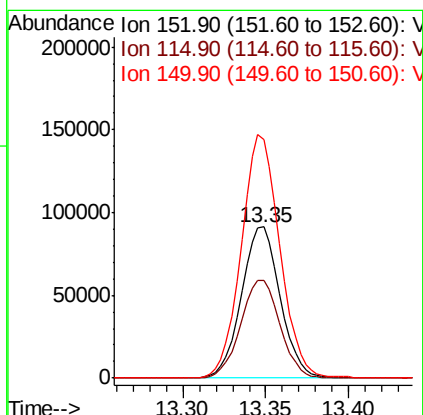
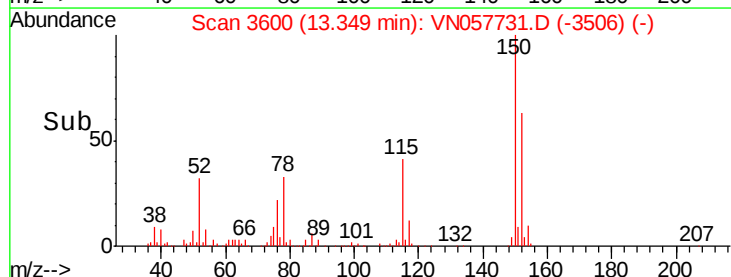
150 160.2 0.0 345.4

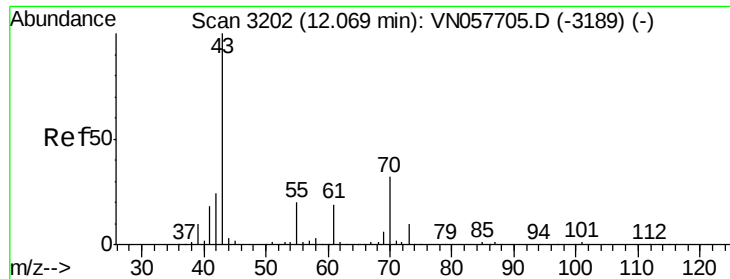


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.707 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(3.5)

Tgt Ion: 43 Resp: 4630

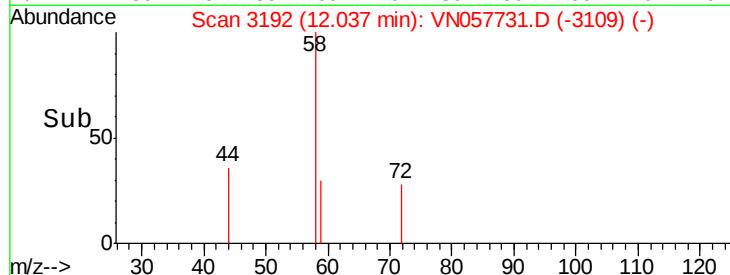
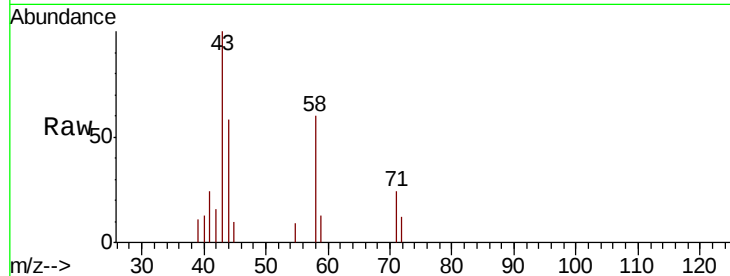
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 1.4 16.3 24.5#

61 0.0 15.0 22.4#

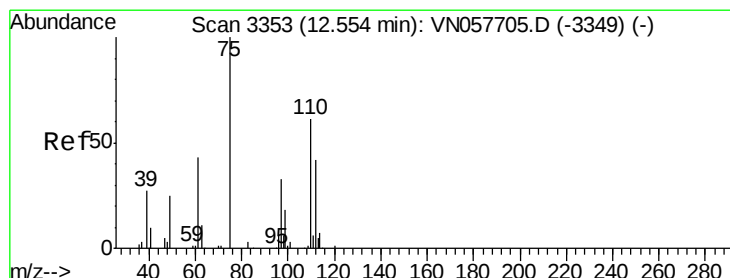
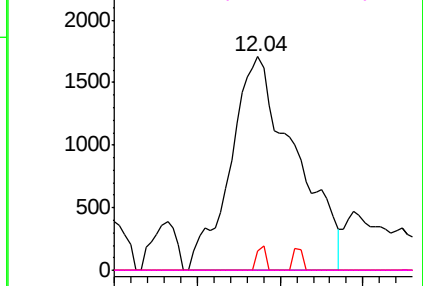


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 37.243 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057731.D

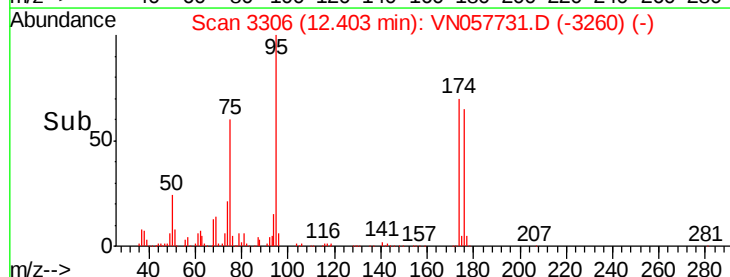
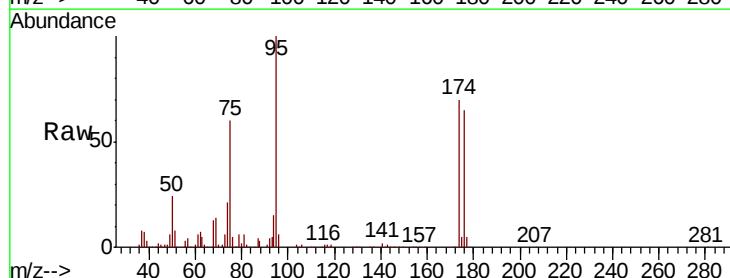
Acq: 6 Sep 2019 22:17

Tgt Ion: 75 Resp: 126832

Ion Ratio Lower Upper

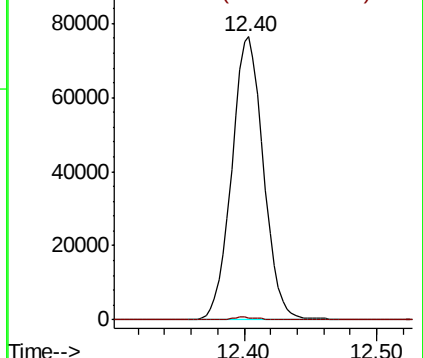
75 100

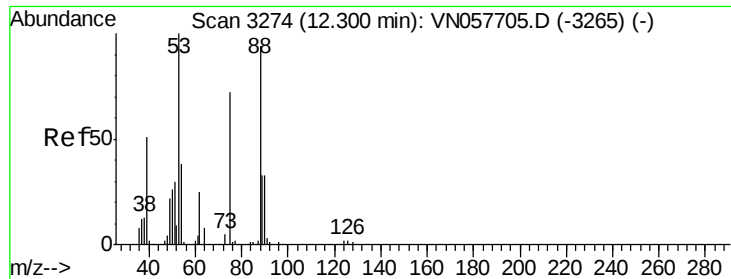
77 0.8 0.0 0.0#



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: 115.827 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057731.D

Acq: 6 Sep 2019 22:17

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(3.5)

Tgt Ion: 75 Resp: 126832

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#

