

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011420\
 Data File : VN059706.D
 Acq On : 14 Jan 2020 14:23
 Operator : JC/MD
 Sample : PB126072ZHE#12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126072ZHE#22

Quant Time: Jan 14 22:17:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	186373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	279984	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	244774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	108377	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	99030	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
35) Dibromofluoromethane	7.57	113	85470	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
50) Toluene-d8	10.08	98	319249	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.40	95	113015	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	

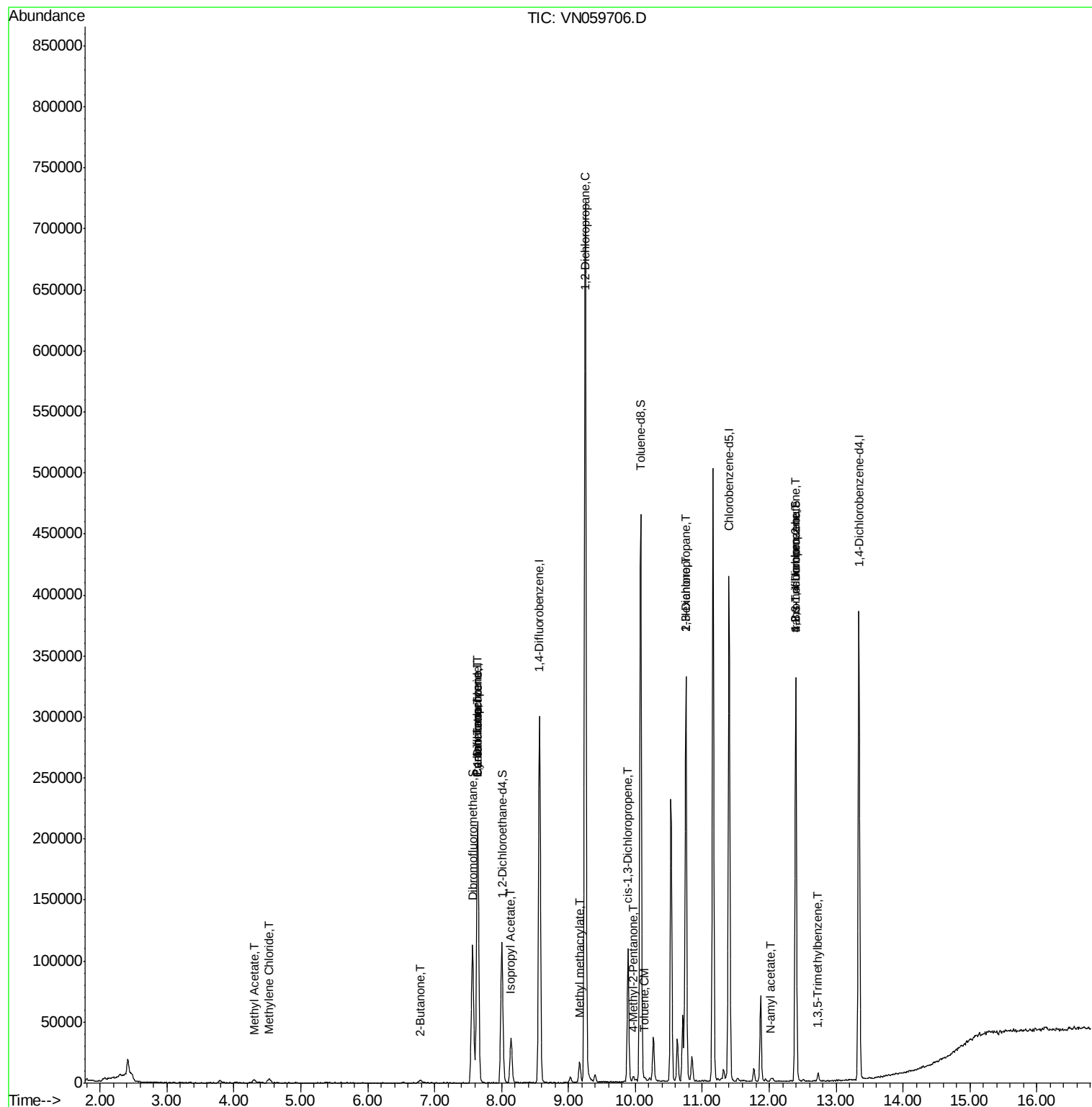
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3826	Below Cal		97
18) Methyl Acetate	4.31	43	5233	2.165	ug/l #	79
20) Methylene Chloride	4.52	84	2924	0.275	ug/l	90
25) 2-Butanone	6.80	43	588	0.502	ug/l #	50
31) Cyclohexane	7.64	56	3670	1.198	ug/l #	12
36) 1,1-Dichloropropene	7.64	75	12172	4.992	ug/l #	50
38) Carbon Tetrachloride	7.64	117	16699	6.296	ug/l #	16
43) Isopropyl Acetate	8.14	43	43461	11.049	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	764	0.425	ug/l #	44
48) Methyl methacrylate	9.16	41	2565	1.458	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2914	1.282	ug/l	90
52) Toluene	10.14	92	1688	0.368	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	21494	7.153	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3501	1.212	ug/l #	42
59) 2-Hexanone	10.75	43	45948	27.430	ug/l #	56
74) N-amyl acetate	12.03	43	2286	0.741	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	56737	31.108	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3624	0.542	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	56737	66.804	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.30	75	62	Below Cal	#	6

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

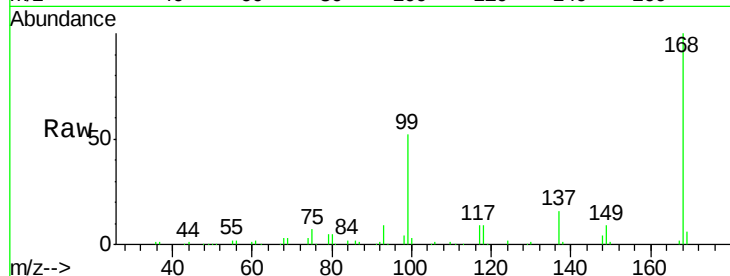
PB126072ZHE#22

Tgt Ion: 168 Resp: 186373

Ion Ratio Lower Upper

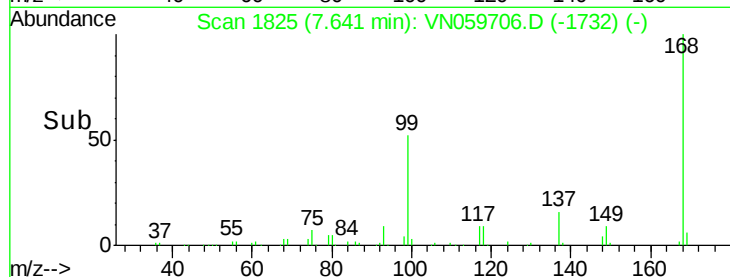
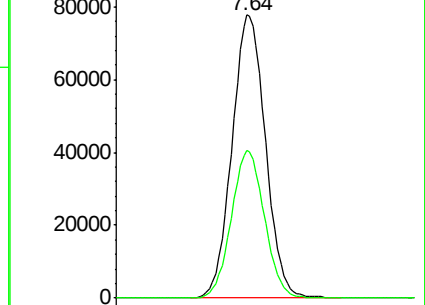
168 100

99 52.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059706.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059706.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN059706.D

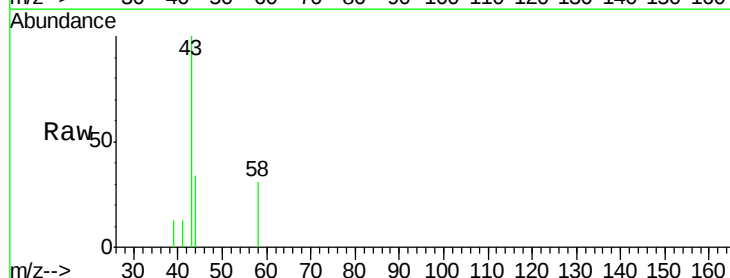
Acq: 14 Jan 2020 14:23

Tgt Ion: 43 Resp: 3826

Ion Ratio Lower Upper

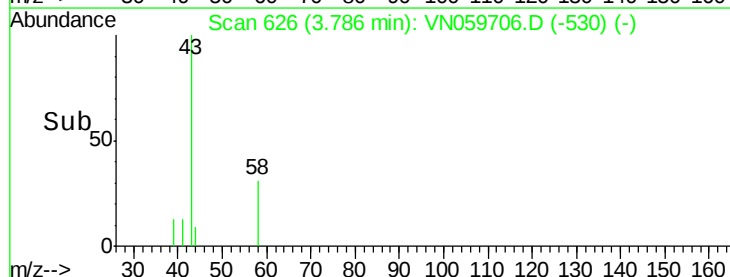
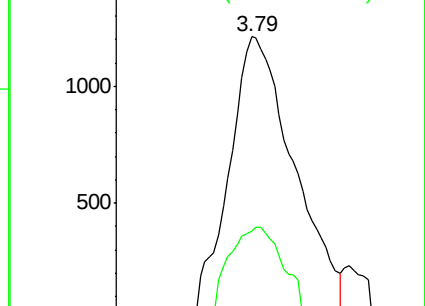
43 100

58 31.3 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059706.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059706.D (-530) (-)

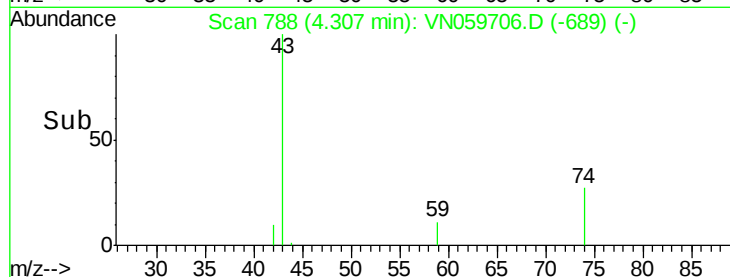
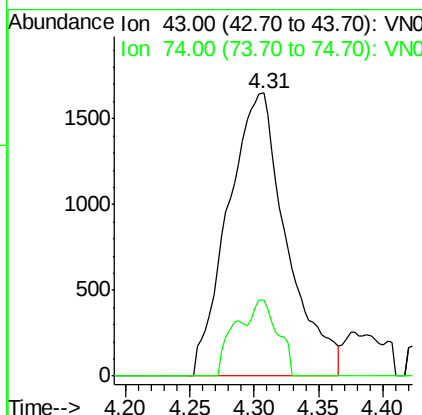
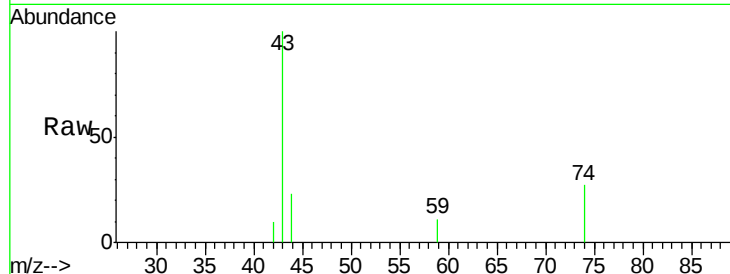




#18
Methyl Acetate
Concen: 2.165 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN059706.D
Acq: 14 Jan 2020 14:23

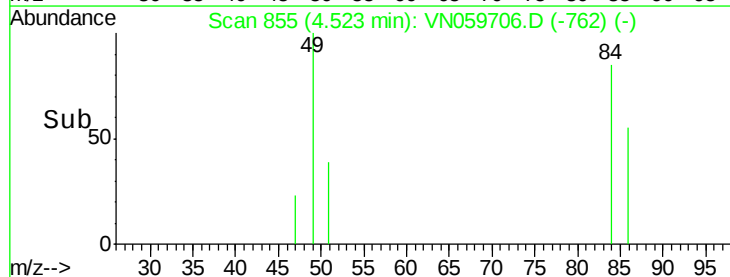
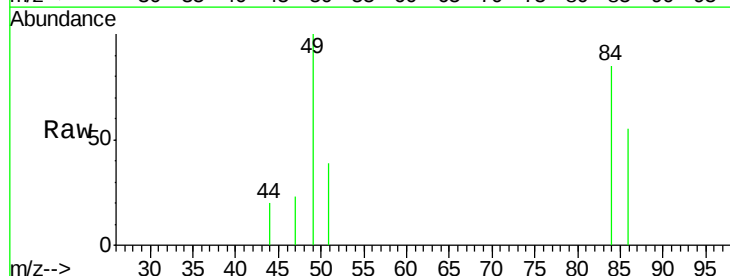
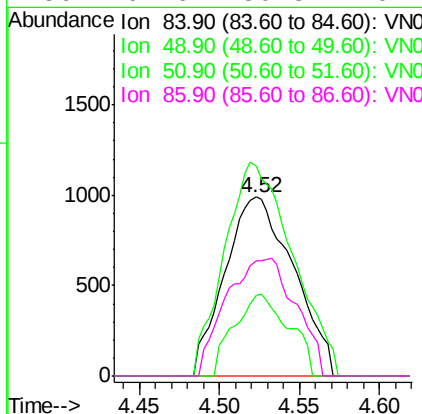
Instrument :
MSVOA_N
ClientSampleId :
PB126072ZHE#22

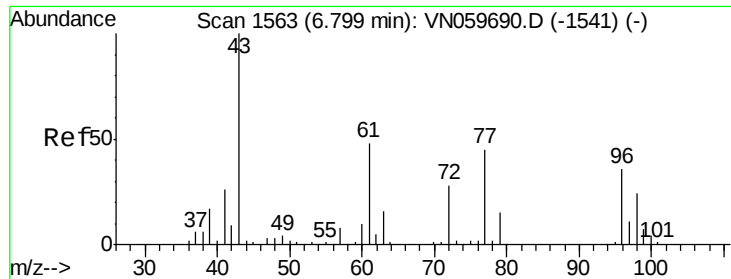
Tgt Ion: 43 Resp: 5233
Ion Ratio Lower Upper
43 100
74 11.9 17.5 26.3#



#20
Methylene Chloride
Concen: 0.275 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059706.D
Acq: 14 Jan 2020 14:23

Tgt Ion: 84 Resp: 2924
Ion Ratio Lower Upper
84 100
49 117.3 106.6 160.0
51 45.4 31.9 47.9
86 64.6 50.8 76.2

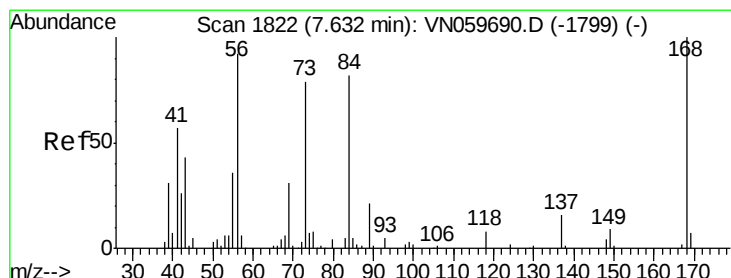
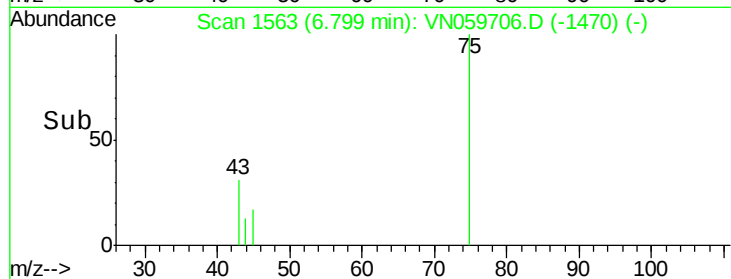
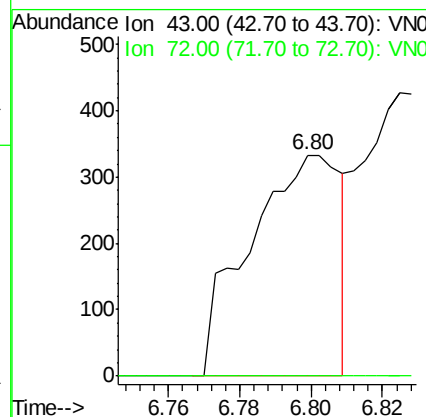
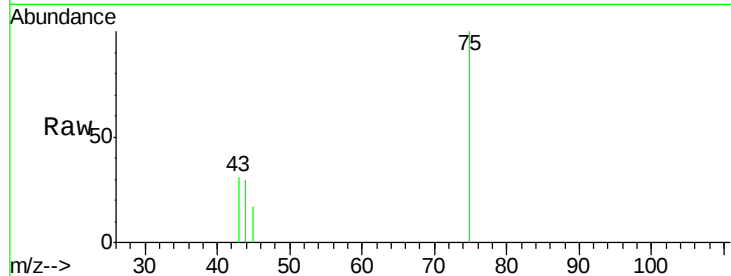




#25
2-Butanone
Concen: 0.502 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN059706.D
Acq: 14 Jan 2020 14:23

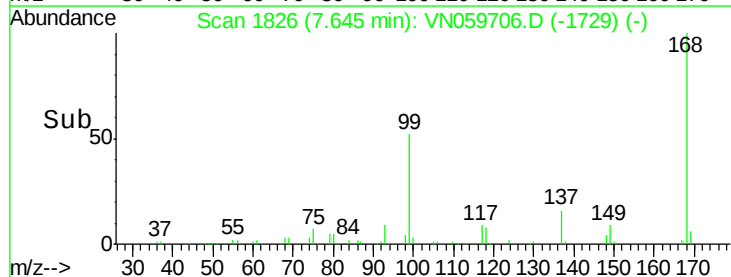
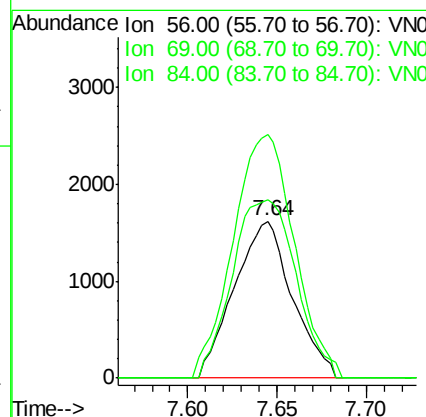
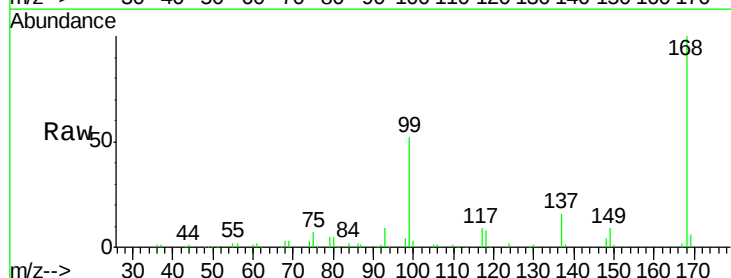
Instrument :
MSVOA_N
ClientSampleId :
PB126072ZHE#22

Tgt Ion: 43 Resp: 588
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.198 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059706.D
Acq: 14 Jan 2020 14:23

Tgt Ion: 56 Resp: 3670
Ion Ratio Lower Upper
56 100
69 155.3 26.5 39.7#
84 113.5 65.3 97.9#

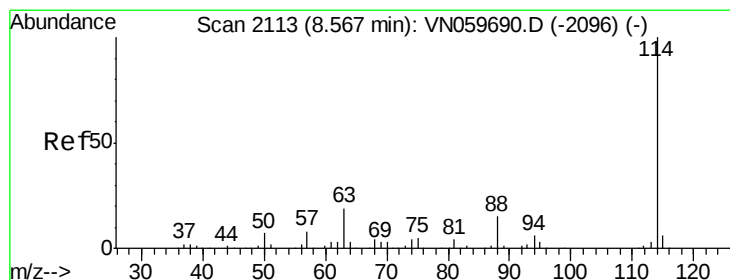
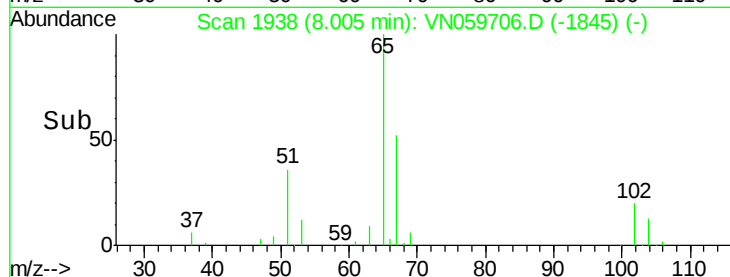
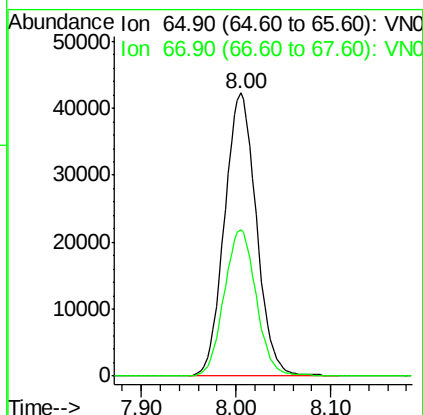
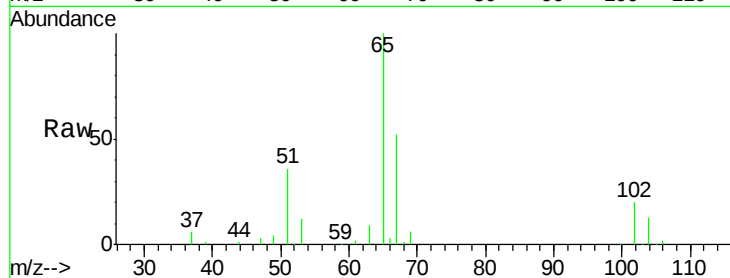




#33
 1,2-Dichloroethane-d4
 Concen: 47.847 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059706.D
 Acq: 14 Jan 2020 14:23

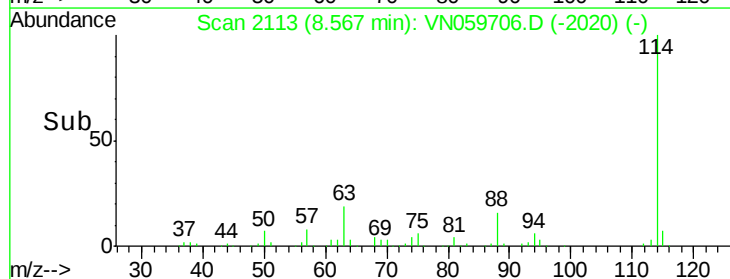
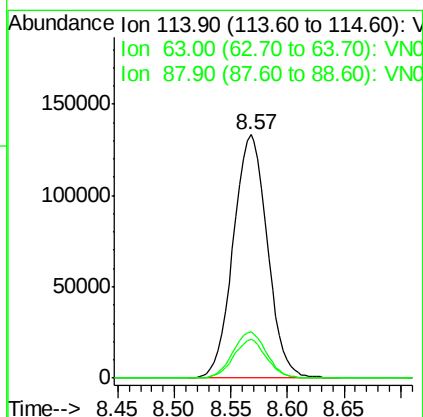
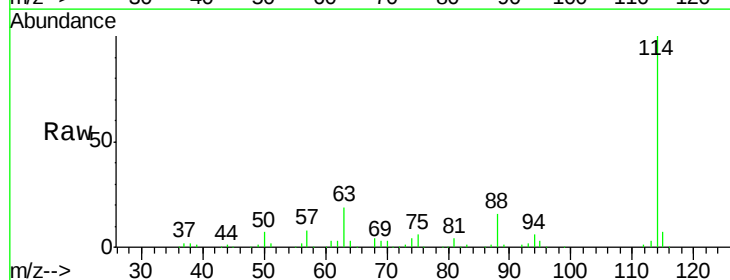
Instrument :
 MSVOA_N
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 PB126072ZHE#22

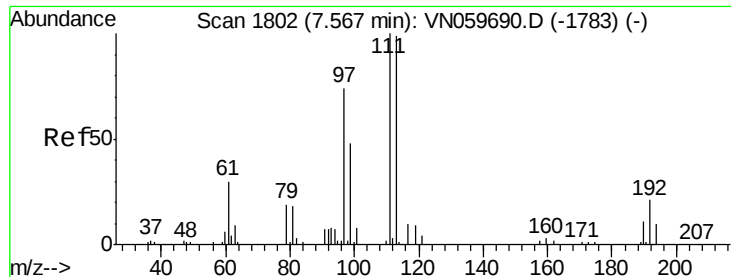
Tgt Ion: 65 Resp: 99030
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059706.D
 Acq: 14 Jan 2020 14:23

Tgt Ion: 114 Resp: 279984
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 43.6
 88 15.7 0.0 31.4

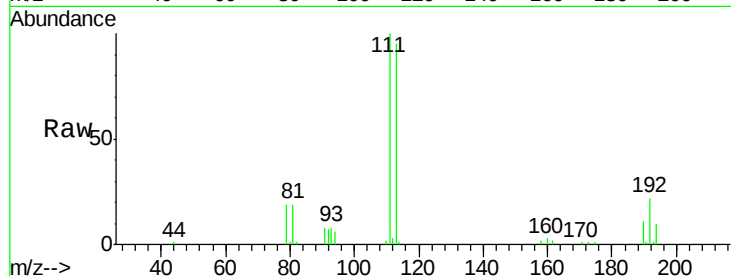




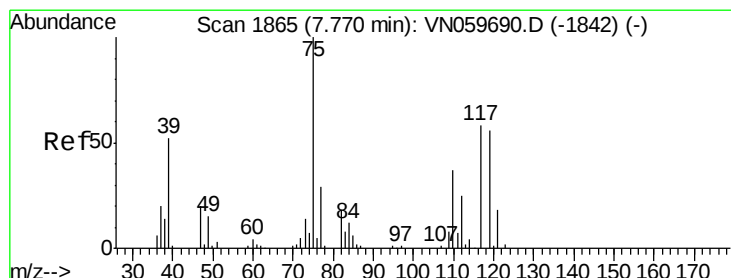
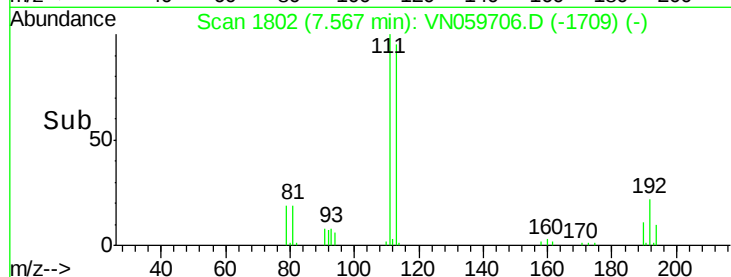
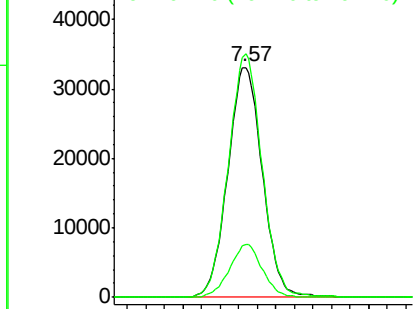
#35
 Dibromofluoromethane
 Concen: 51.190 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059706.D
 Acq: 14 Jan 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126072ZHE#22

Tgt Ion:113 Resp: 85470
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.5 125.3
 192 21.8 15.4 23.2

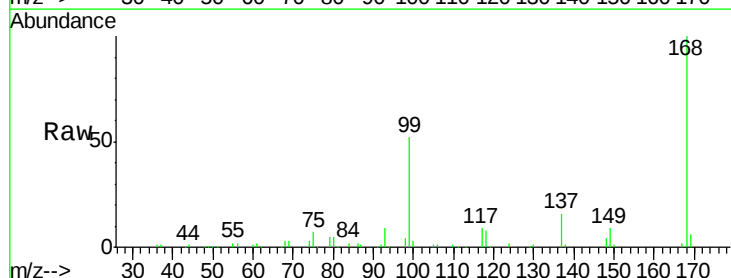


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

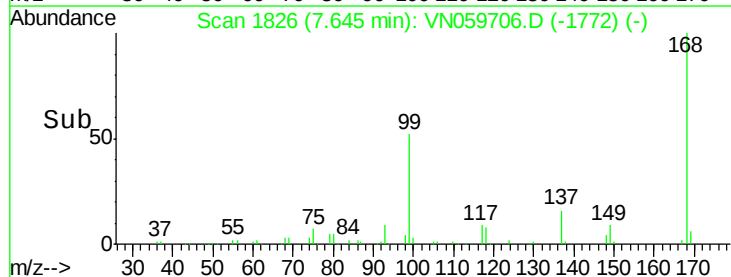
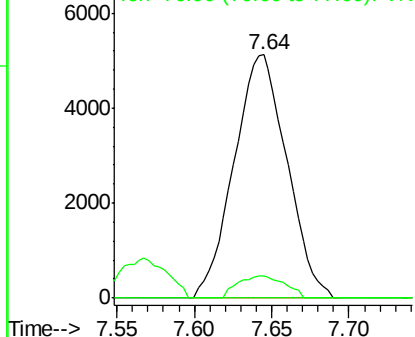


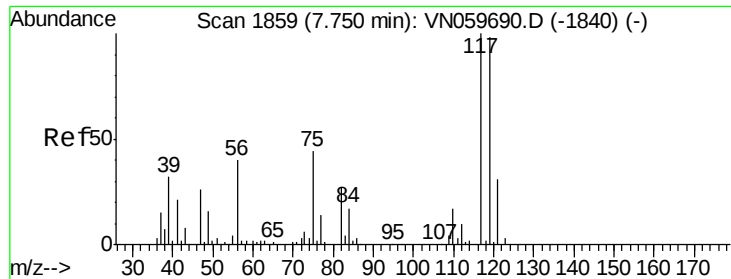
#36
 1,1-Dichloropropene
 Concen: 4.992 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059706.D
 Acq: 14 Jan 2020 14:23

Tgt Ion: 75 Resp: 12172
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.6 49.7#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.296 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#22

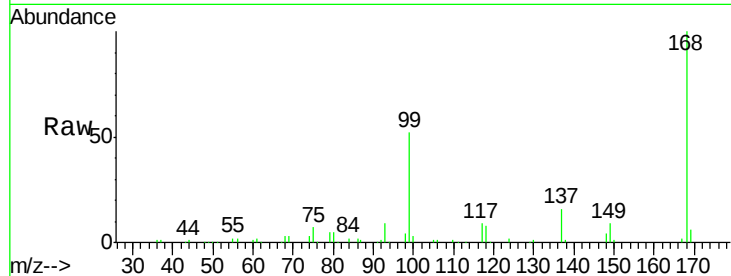
Tgt Ion:117 Resp: 16699

Ion Ratio Lower Upper

117 100

119 4.8 76.5 114.7#

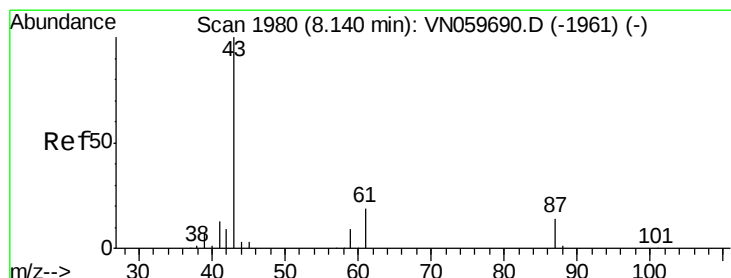
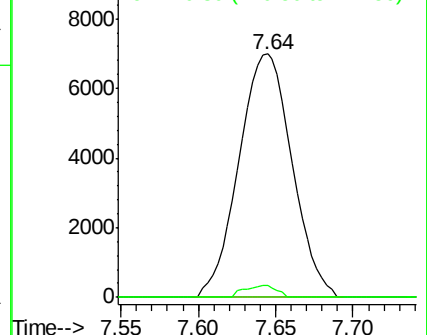
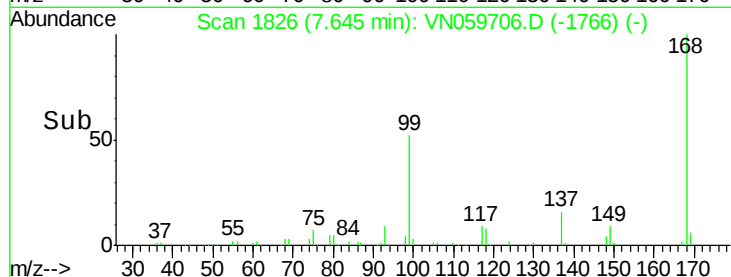
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.049 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

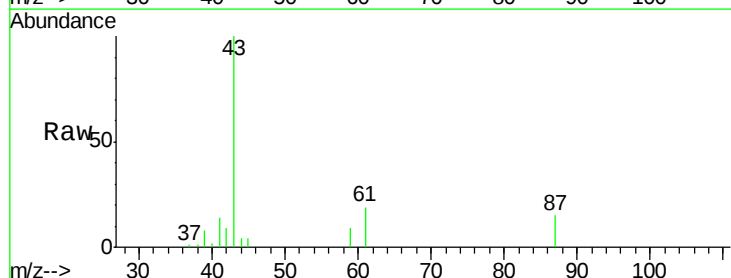
Tgt Ion: 43 Resp: 43461

Ion Ratio Lower Upper

43 100

61 19.5 20.2 30.2#

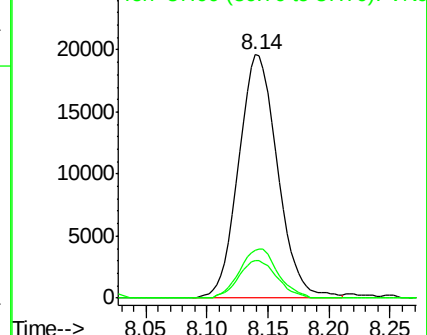
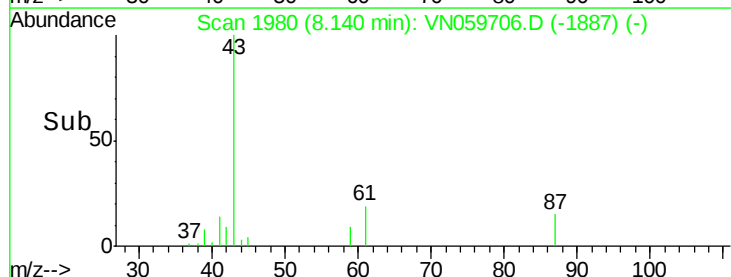
87 15.2 9.5 14.3#

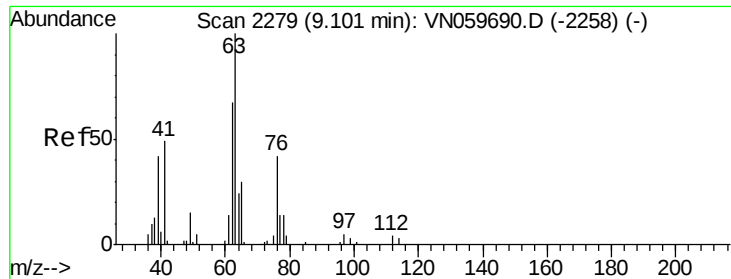


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.425 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

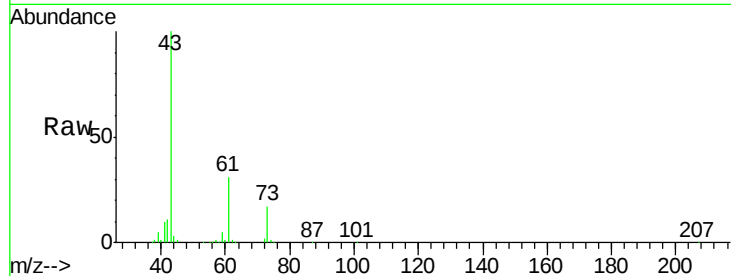
PB126072ZHE#22

Tgt Ion: 63 Resp: 764

Ion Ratio Lower Upper

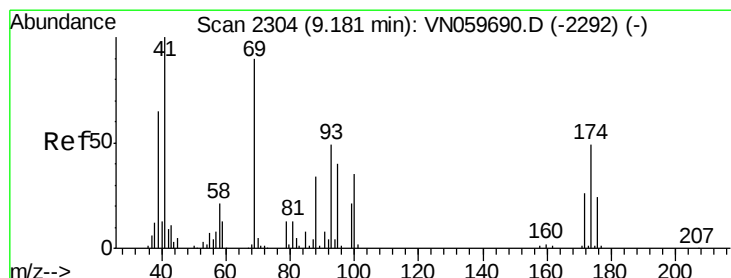
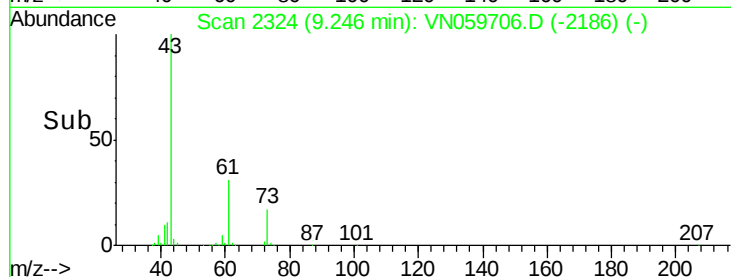
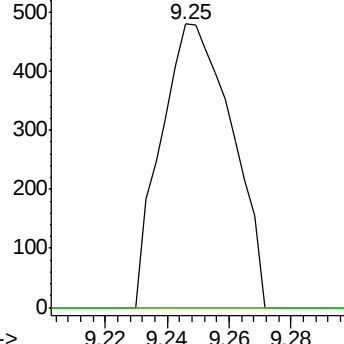
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.458 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

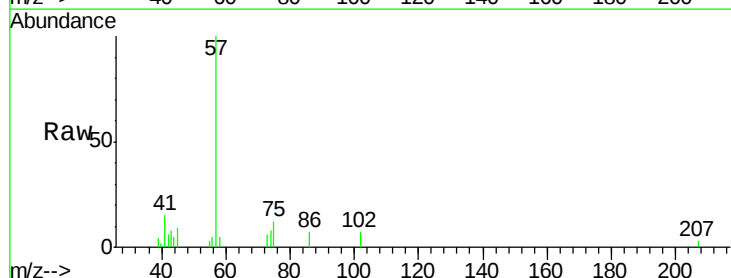
Tgt Ion: 41 Resp: 2565

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

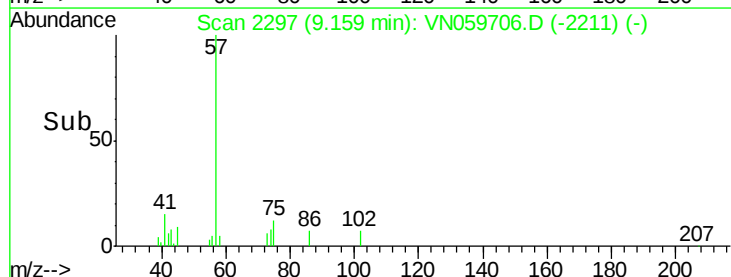
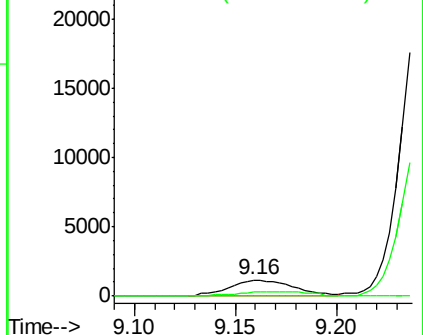
39 0.0 51.3 76.9#

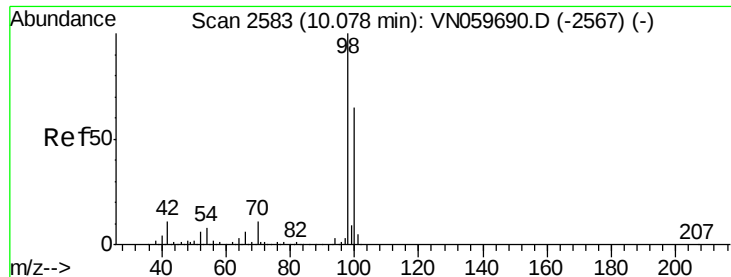


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.350 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

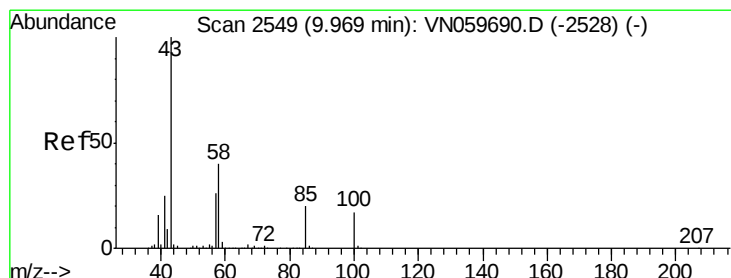
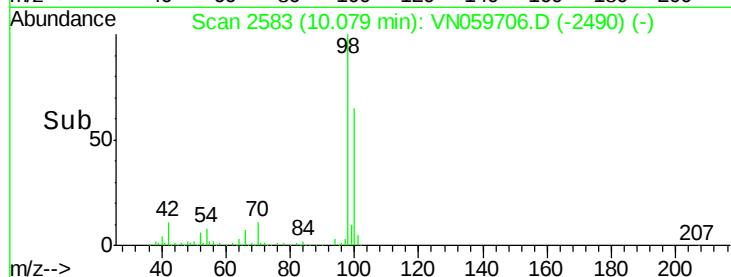
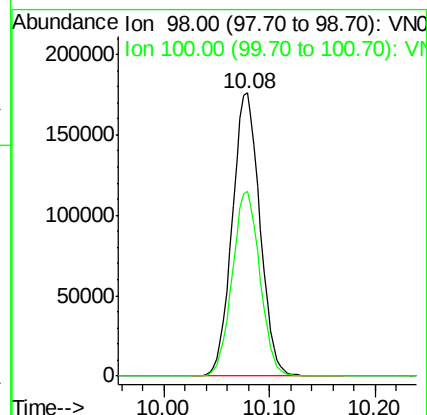
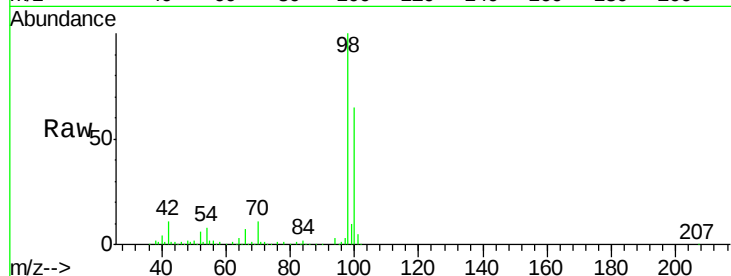
PB126072ZHE#22

Tgt Ion: 98 Resp: 319249

Ion Ratio Lower Upper

98 100

100 64.9 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.282 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059706.D

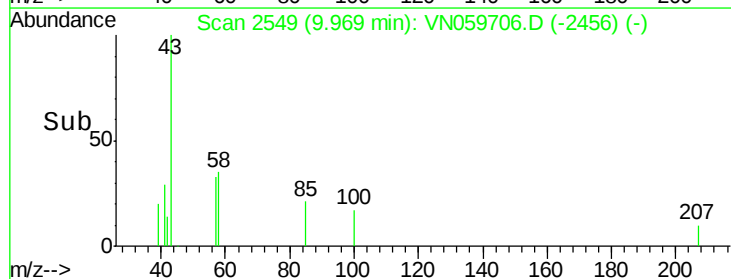
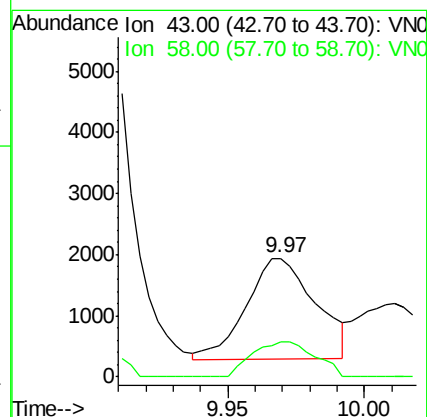
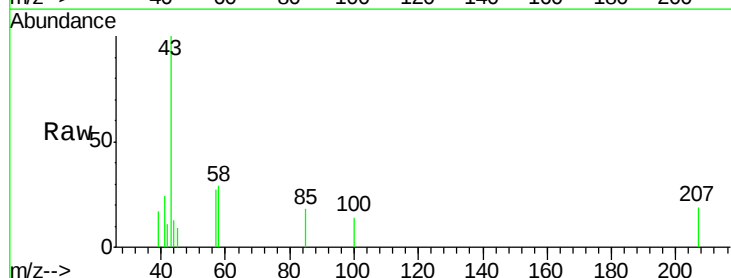
Acq: 14 Jan 2020 14:23

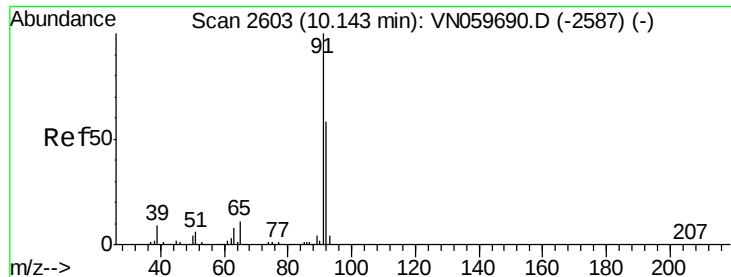
Tgt Ion: 43 Resp: 2914

Ion Ratio Lower Upper

43 100

58 31.4 29.8 44.8





#52

Toluene

Concen: 0.368 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

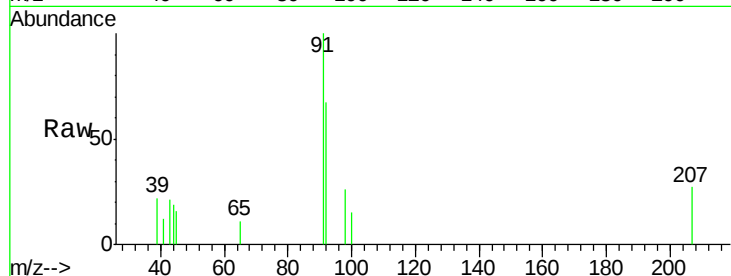
PB126072ZHE#22

Tgt Ion: 92 Resp: 1688

Ion Ratio Lower Upper

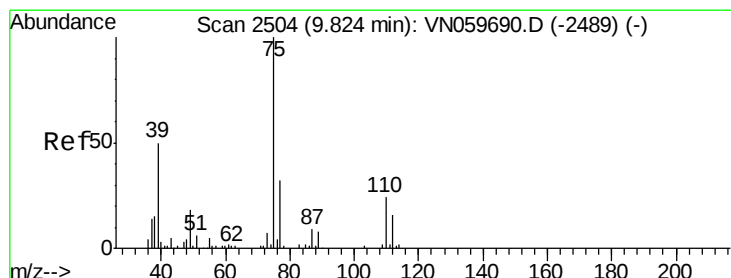
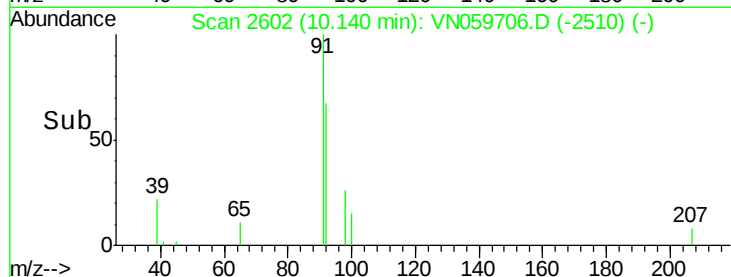
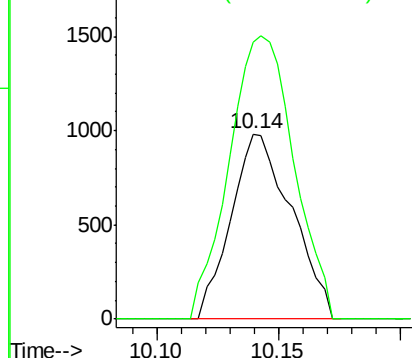
92 100

91 164.0 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.153 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

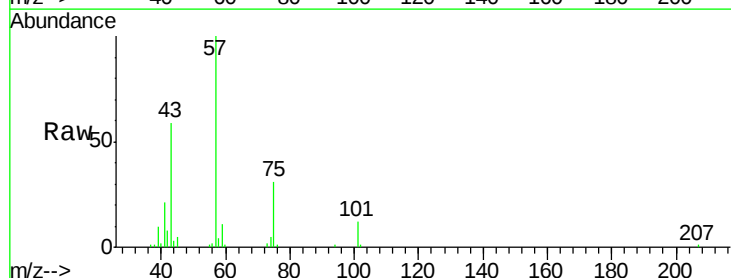
Tgt Ion: 75 Resp: 21494

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

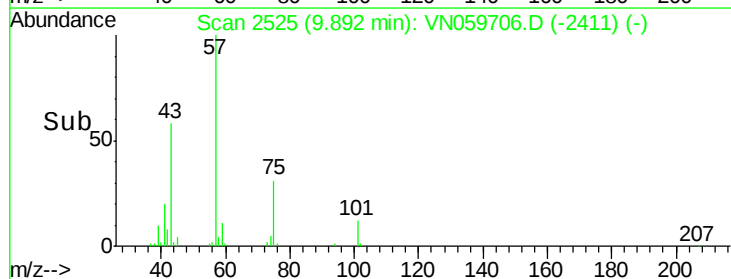
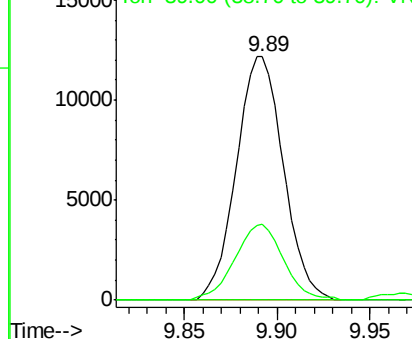
39 30.9 46.1 69.1#

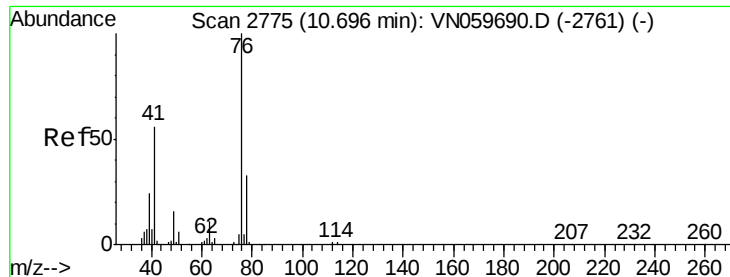


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.212 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

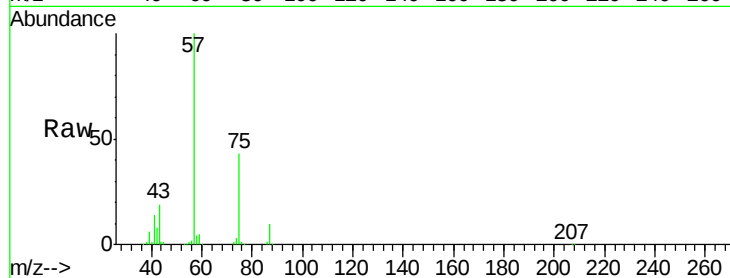
PB126072ZHE#22

Tgt Ion: 76 Resp: 3501

Ion Ratio Lower Upper

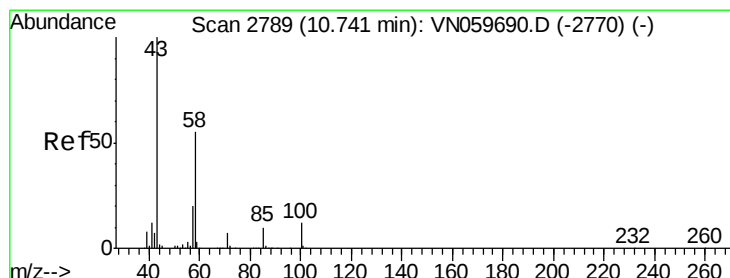
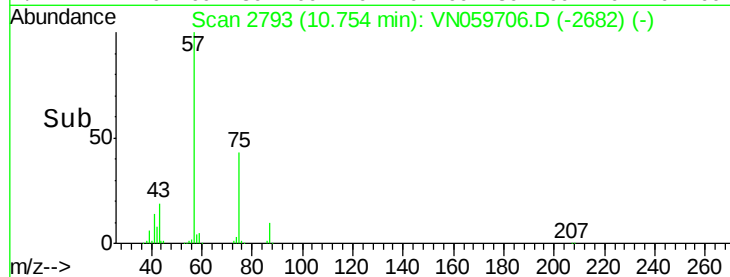
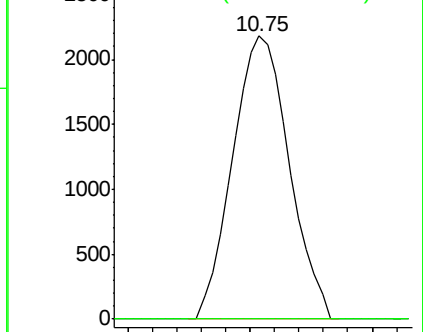
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 27.430 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059706.D

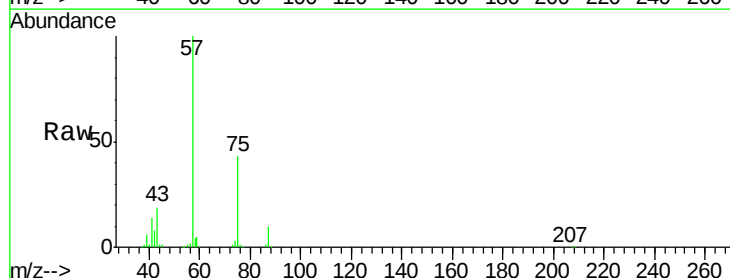
Acq: 14 Jan 2020 14:23

Tgt Ion: 43 Resp: 45948

Ion Ratio Lower Upper

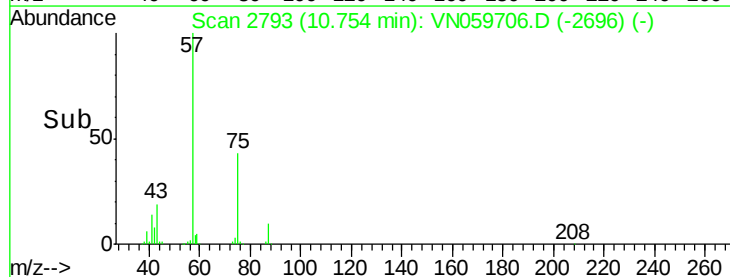
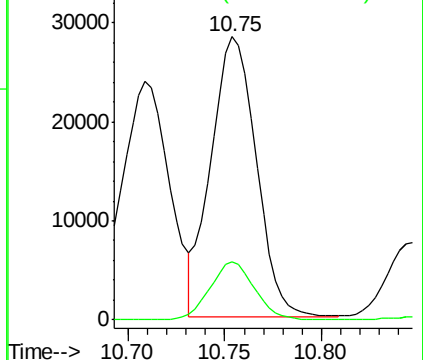
43 100

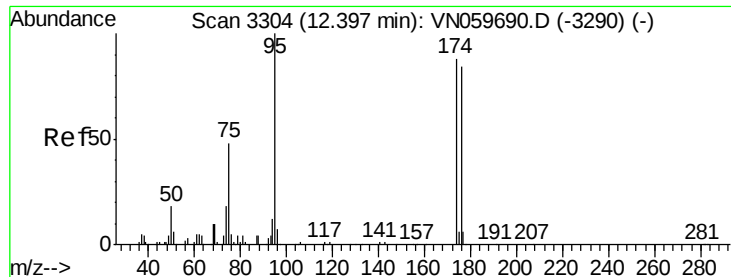
58 20.4 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.460 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#22

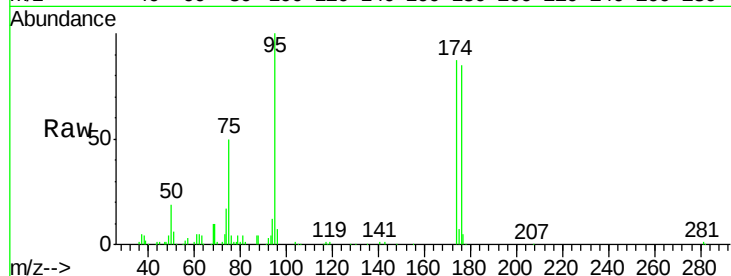
Tgt Ion: 95 Resp: 113015

Ion Ratio Lower Upper

95 100

174 87.0 0.0 151.4

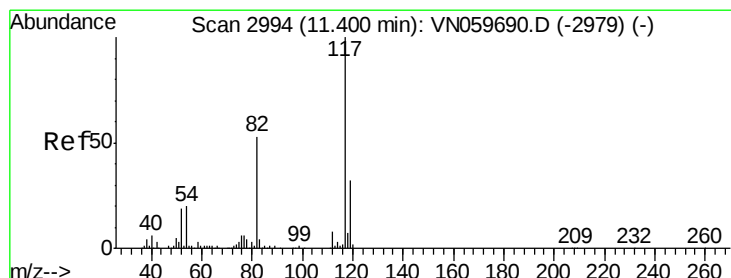
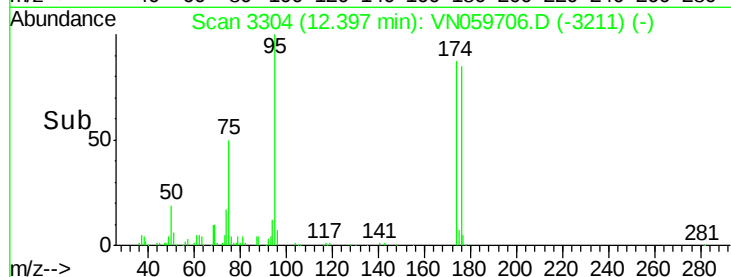
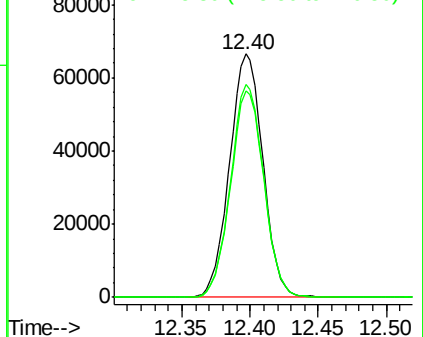
176 84.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

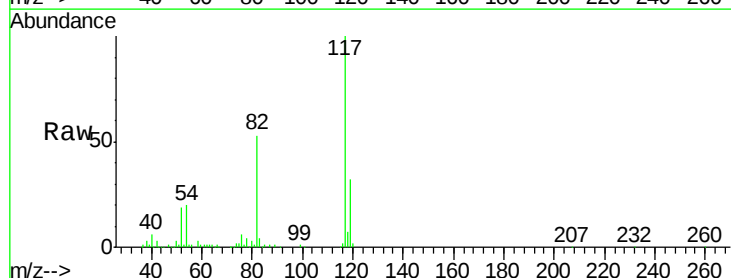
Tgt Ion: 117 Resp: 244774

Ion Ratio Lower Upper

117 100

82 52.8 45.9 68.9

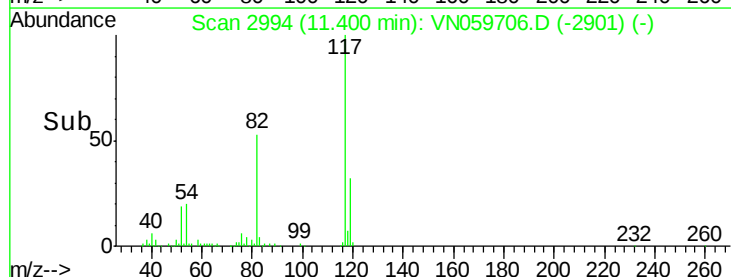
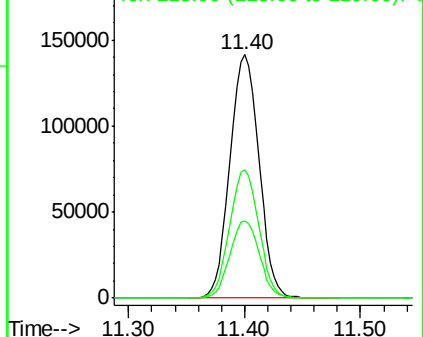
119 31.9 25.5 38.3

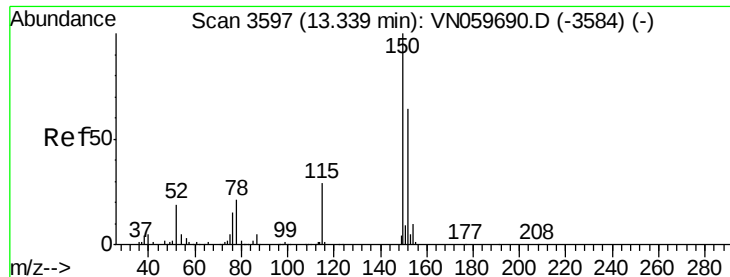


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#22

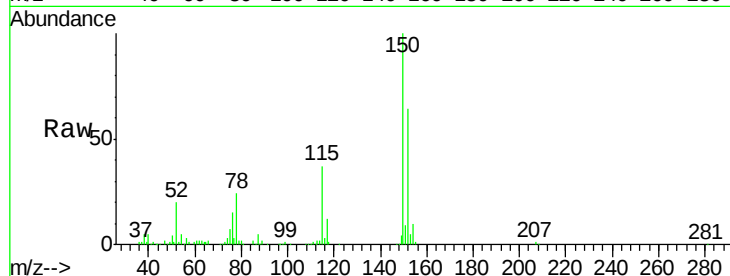
Tgt Ion:152 Resp: 108377

Ion Ratio Lower Upper

152 100

115 57.0 30.3 90.9

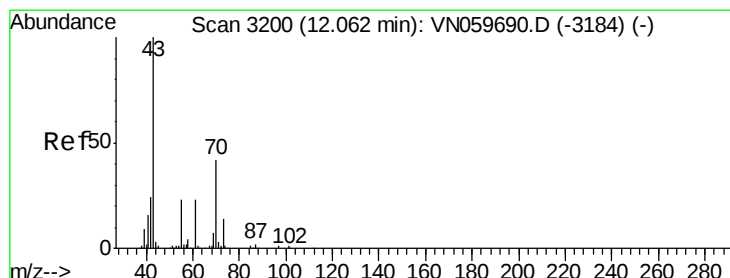
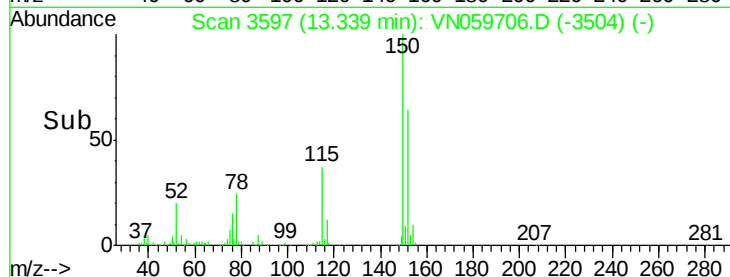
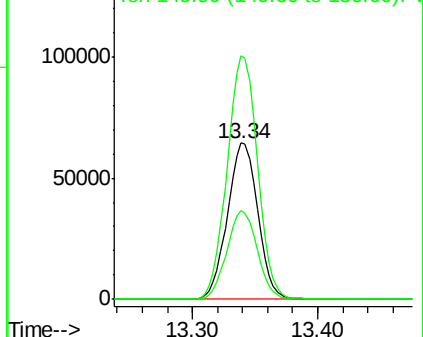
150 156.0 0.0 345.2



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: 0.741 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Tgt Ion: 43 Resp: 2286

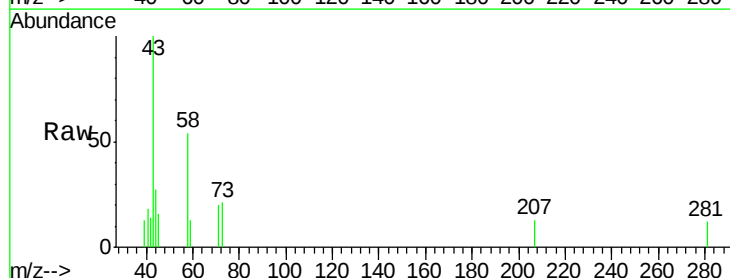
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

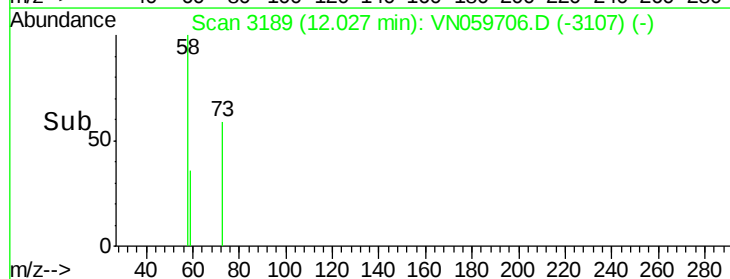
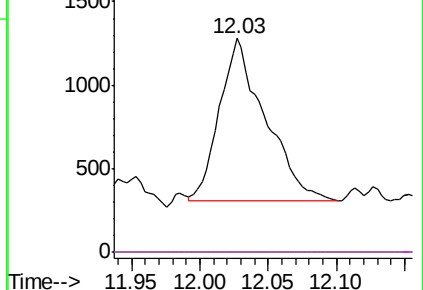


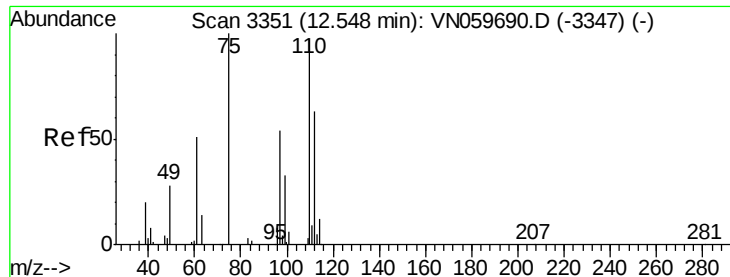
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.108 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

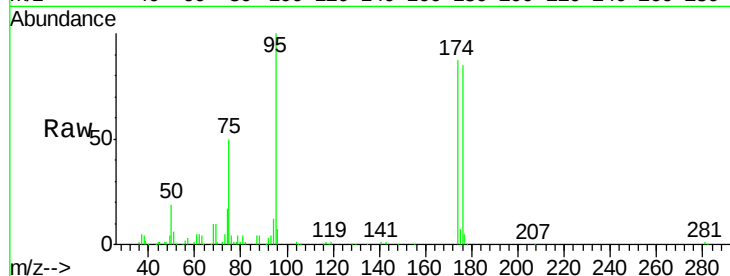
PB126072ZHE#22

Tgt Ion: 75 Resp: 56737

Ion Ratio Lower Upper

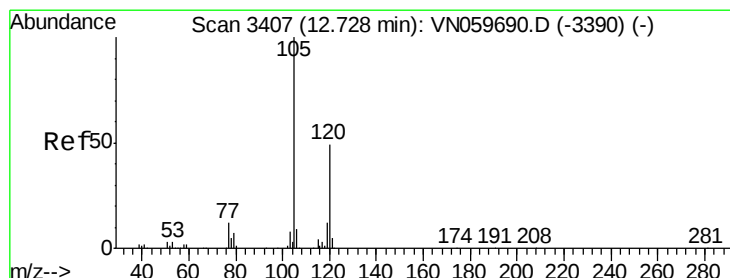
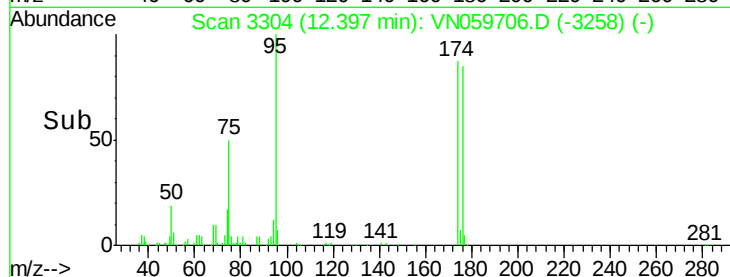
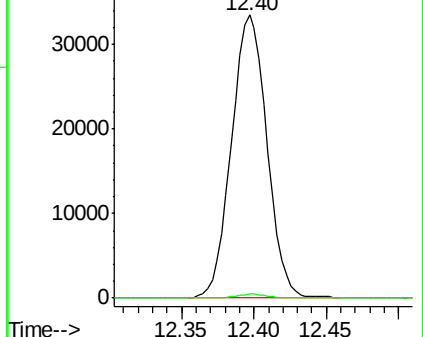
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059706.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN059706.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.542 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059706.D

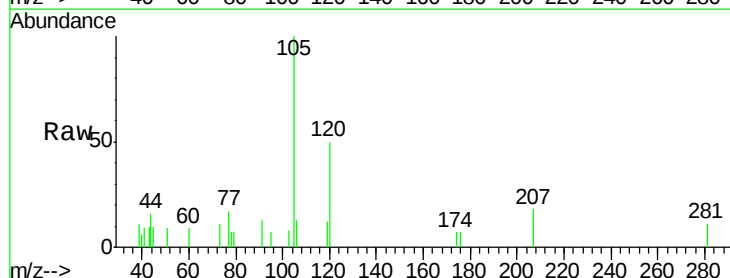
Acq: 14 Jan 2020 14:23

Tgt Ion: 105 Resp: 3624

Ion Ratio Lower Upper

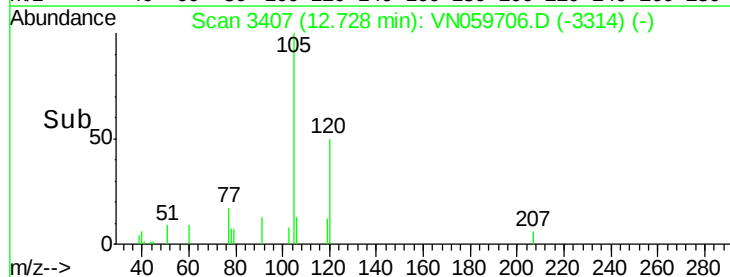
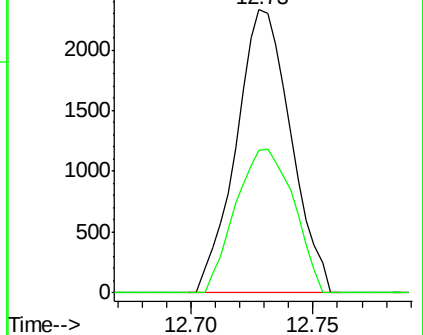
105 100

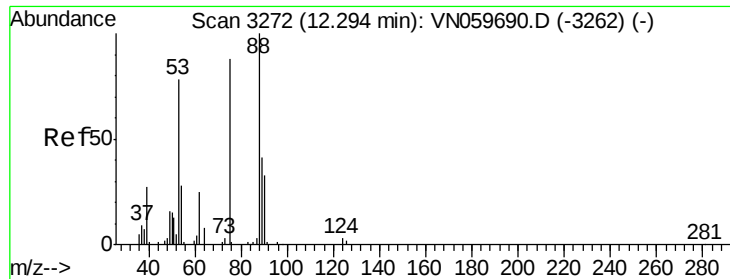
120 53.9 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059706.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN059706.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.804 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#22

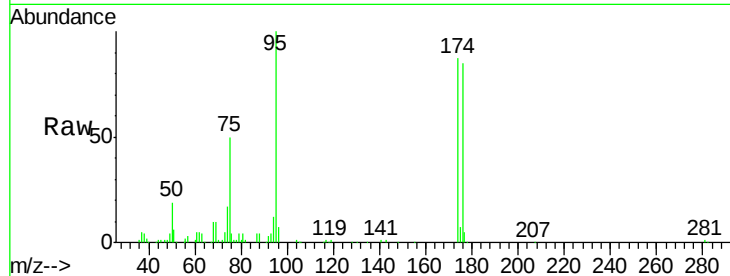
Tgt Ion: 75 Resp: 56737

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

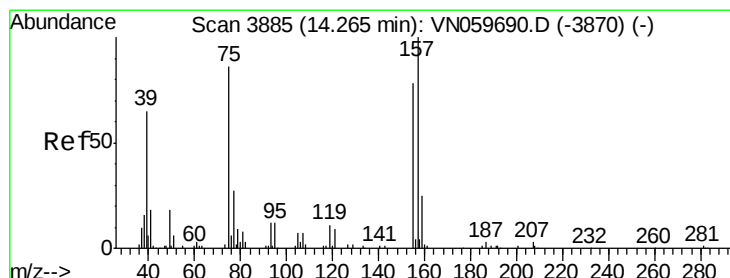
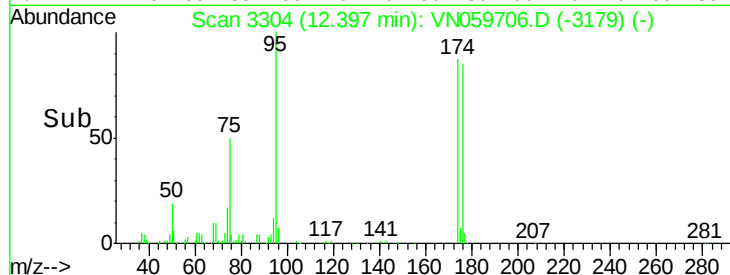
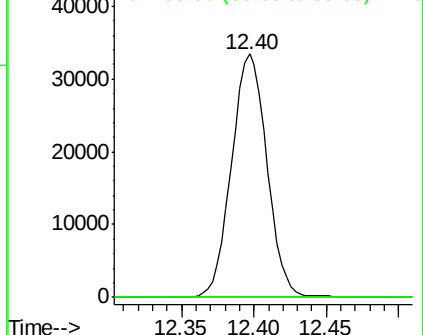
89 0.0 35.4 53.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.30 min Scan# 3895

Delta R.T. 0.03 min

Lab File: VN059706.D

Acq: 14 Jan 2020 14:23

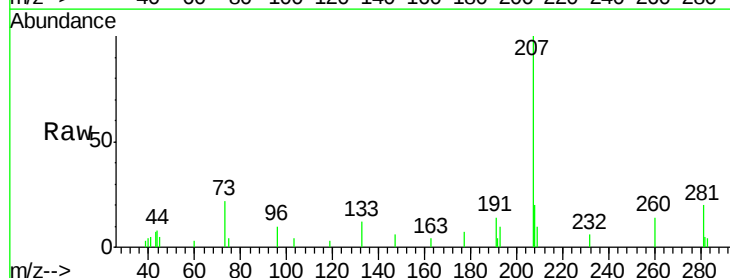
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

