

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN020320\
 Data File : VN059974.D
 Acq On : 3 Feb 2020 15:02
 Operator : JC/MD
 Sample : PB126526ZHE#09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126526ZHE#09

Quant Time: Feb 03 15:30:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	197697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	306205	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	283822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	126108	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	112396	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
35) Dibromofluoromethane	7.57	113	93457	51.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.36%	
50) Toluene-d8	10.08	98	367598	51.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.40	95	130085	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	

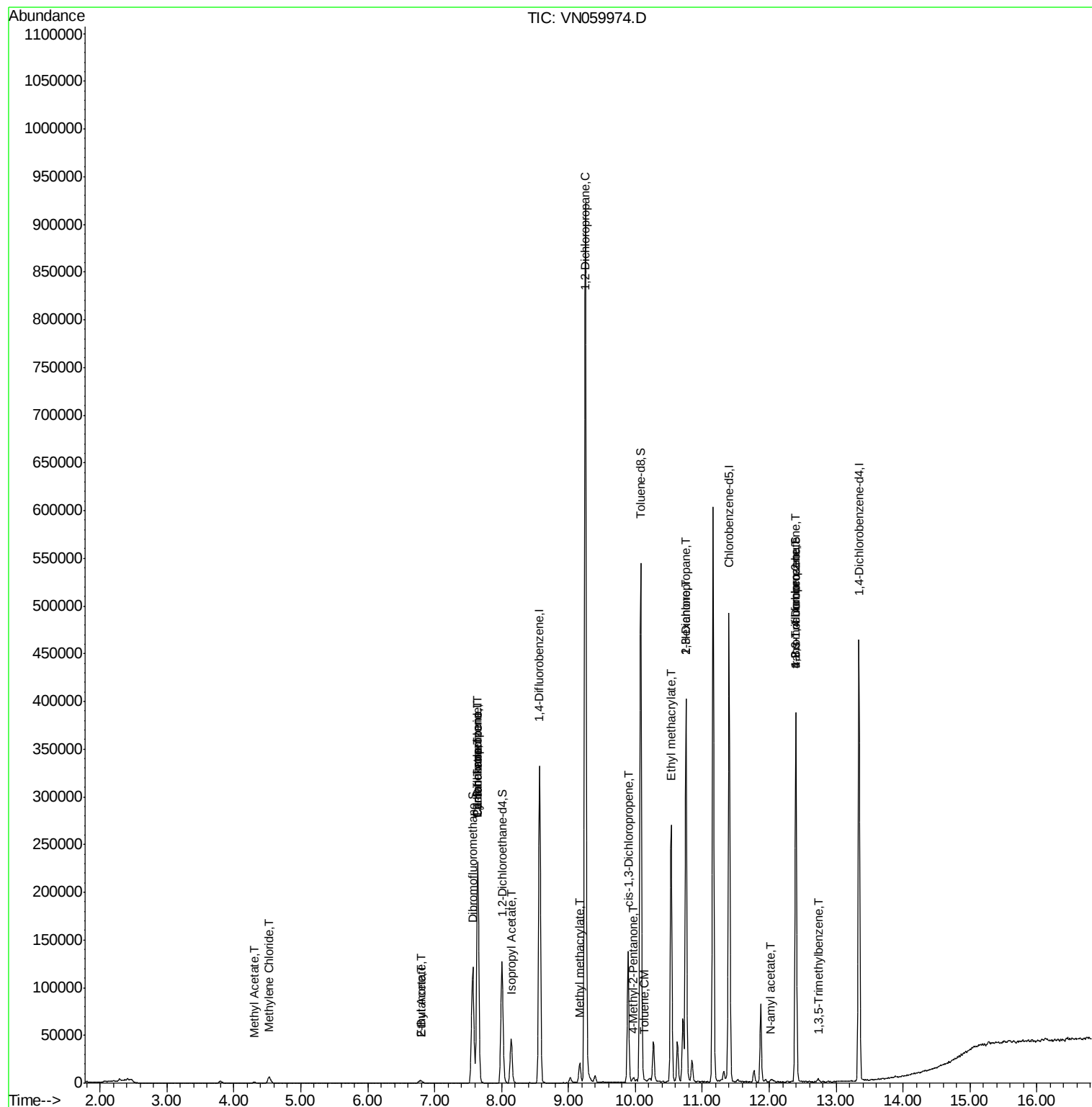
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4052	Below Cal		93
18) Methyl Acetate	4.31	43	1743	0.68	ug/l #	57
20) Methylene Chloride	4.53	84	5513	1.52	ug/l #	83
25) 2-Butanone	6.82	43	1296	1.04	ug/l #	50
31) Cyclohexane	7.64	56	3784	1.16	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14049	5.27	ug/l #	50
37) Ethyl Acetate	6.82	43	1296	0.52	ug/l #	69
38) Carbon Tetrachloride	7.64	117	18703	6.45	ug/l #	16
43) Isopropyl Acetate	8.14	43	55070	12.80	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1179	0.60	ug/l #	44
48) Methyl methacrylate	9.16	41	3184	1.65	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3410	1.37	ug/l	98
52) Toluene	10.15	92	1005	0.20	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	25992	7.91	ug/l #	58
56) Ethyl methacrylate	10.53	69	710	0.23	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4475	1.42	ug/l #	42
59) 2-Hexanone	10.75	43	57938	31.63	ug/l #	54
74) N-amyl acetate	12.03	43	1952	0.54	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	66348	31.26	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2178	0.28	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	66348	67.14	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	62	Below Cal	#	6

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

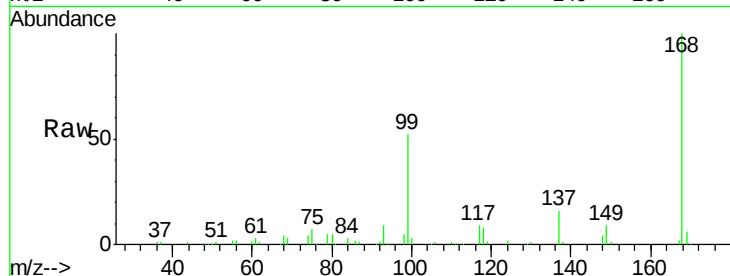
PB126526ZHE#09

Tgt Ion:168 Resp: 197697

Ion Ratio Lower Upper

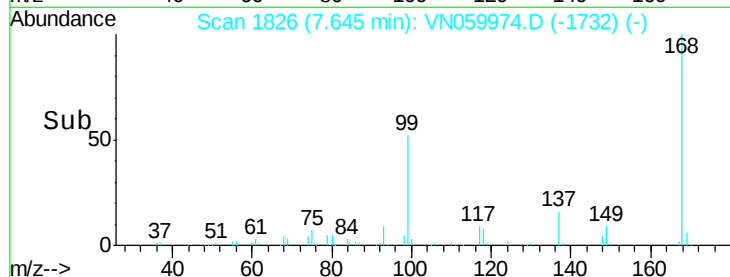
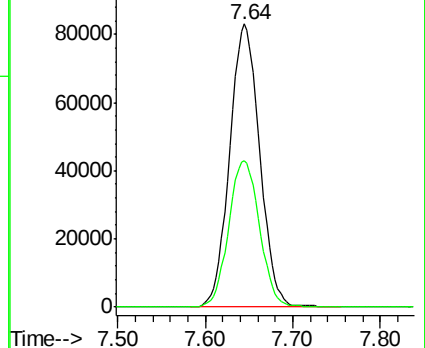
168 100

99 51.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059974.D

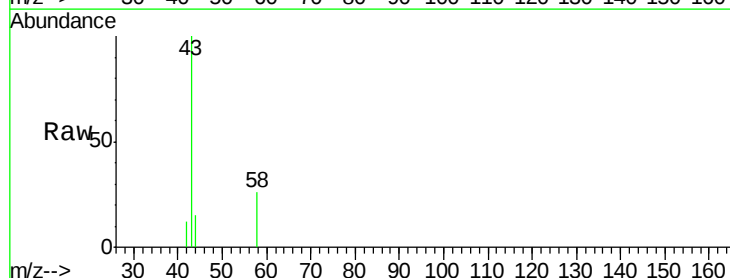
Acq: 3 Feb 2020 15:02

Tgt Ion: 43 Resp: 4052

Ion Ratio Lower Upper

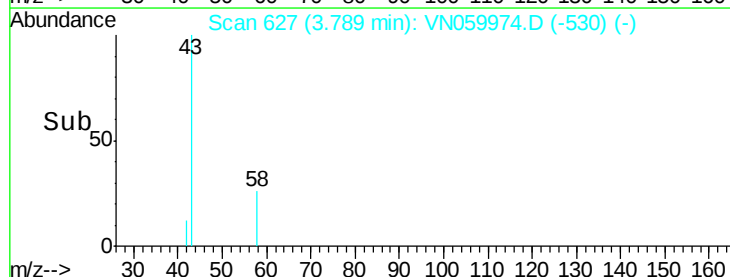
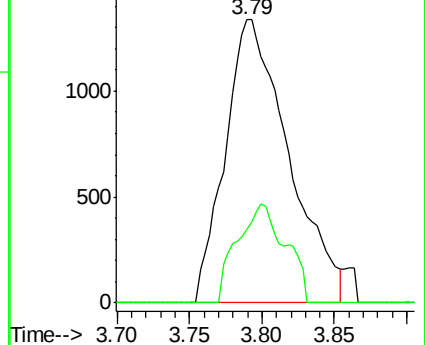
43 100

58 25.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

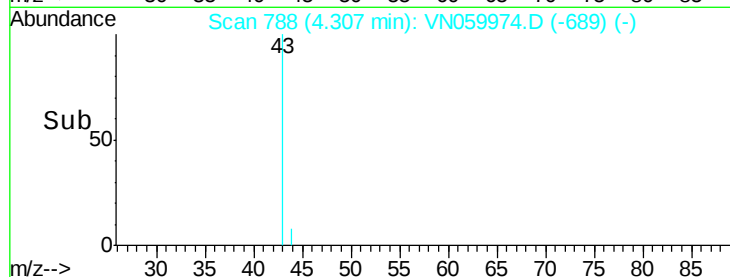
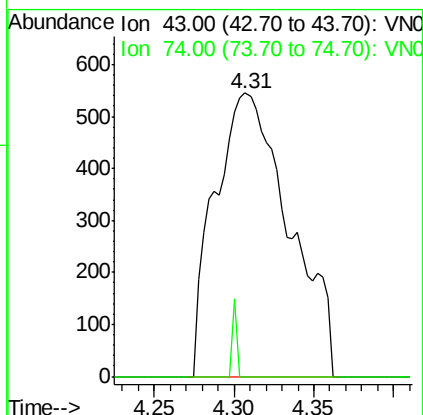
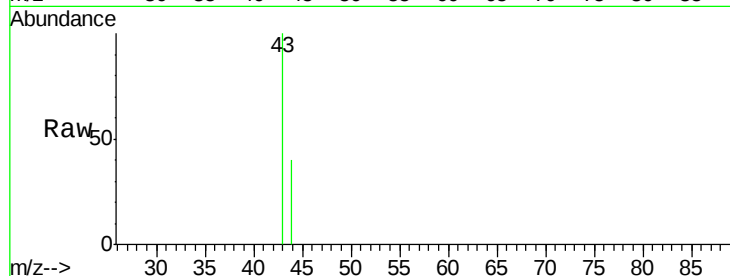




#18
Methyl Acetate
Concen: 0.68 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN059974.D
Acq: 3 Feb 2020 15:02

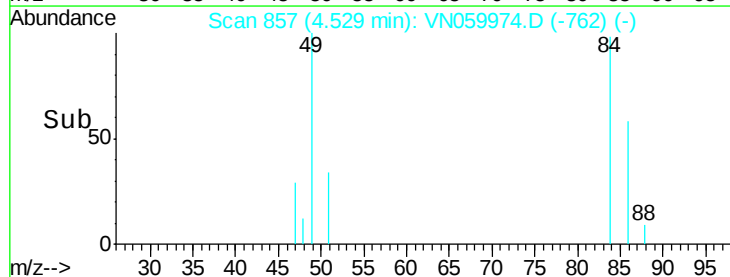
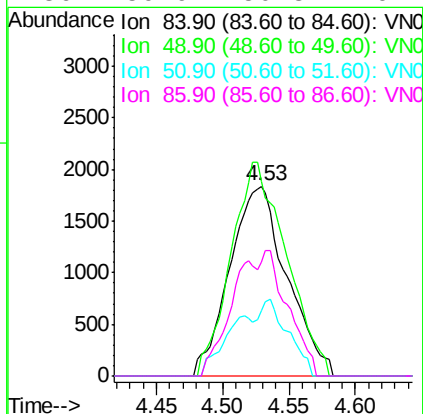
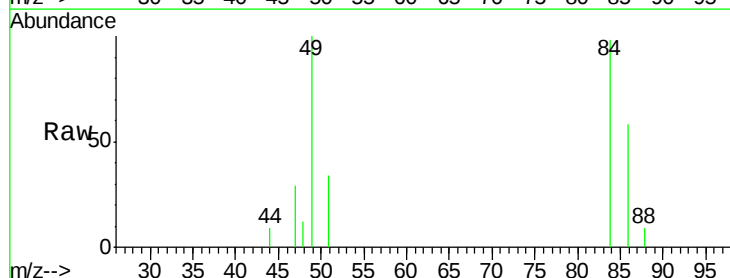
Instrument :
MSVOA_N
ClientSampleId :
PB126526ZHE#09

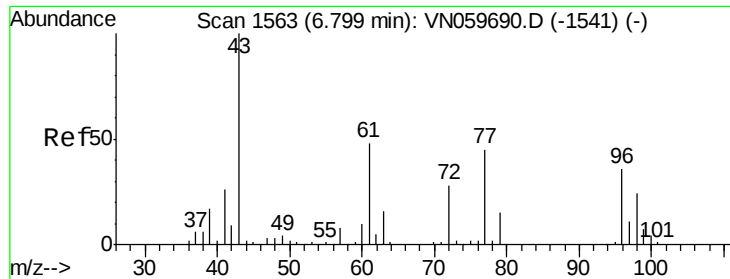
Tgt Ion: 43 Resp: 1743
Ion Ratio Lower Upper
43 100
74 1.7 17.5 26.3#



#20
Methylene Chloride
Concen: 1.52 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059974.D
Acq: 3 Feb 2020 15:02

Tgt Ion: 84 Resp: 5513
Ion Ratio Lower Upper
84 100
49 102.5 106.6 160.0#
51 34.4 31.9 47.9
86 59.9 50.8 76.2

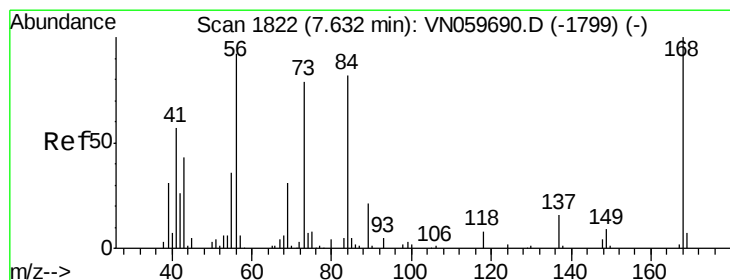
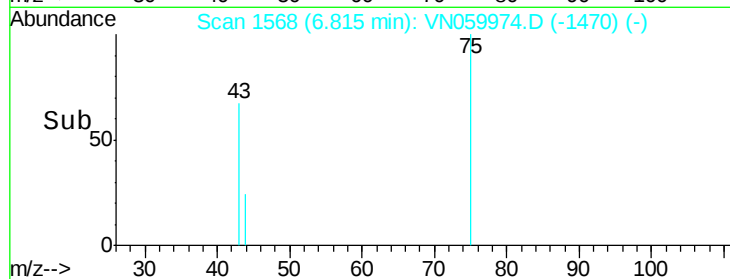
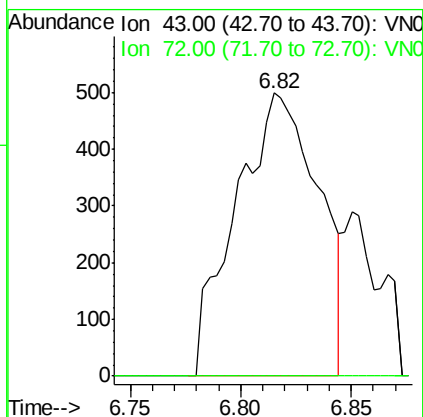
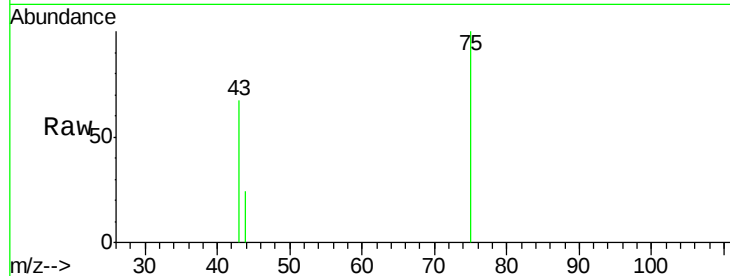




#25
2-Butanone
Concen: 1.04 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN059974.D
Acq: 3 Feb 2020 15:02

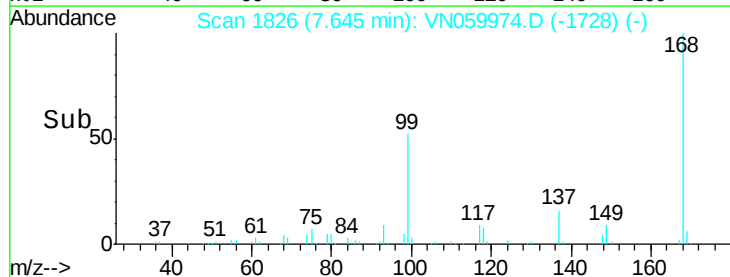
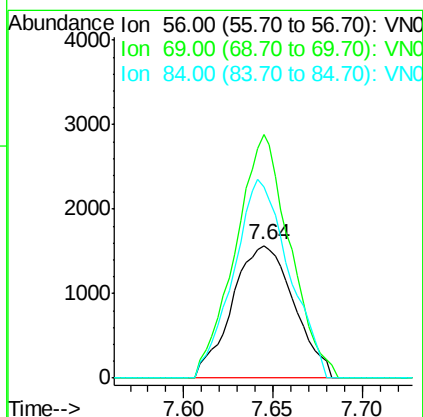
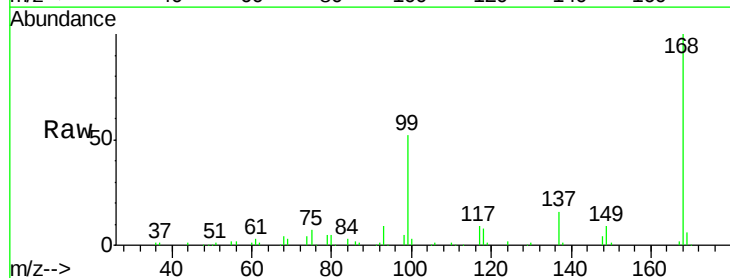
Instrument :
MSVOA_N
ClientSampleId :
PB126526ZHE#09

Tgt Ion: 43 Resp: 1296
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.16 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059974.D
Acq: 3 Feb 2020 15:02

Tgt Ion: 56 Resp: 3784
Ion Ratio Lower Upper
56 100
69 183.6 26.5 39.7#
84 144.3 65.3 97.9#

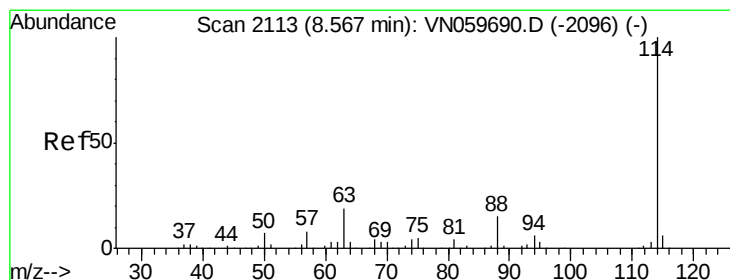
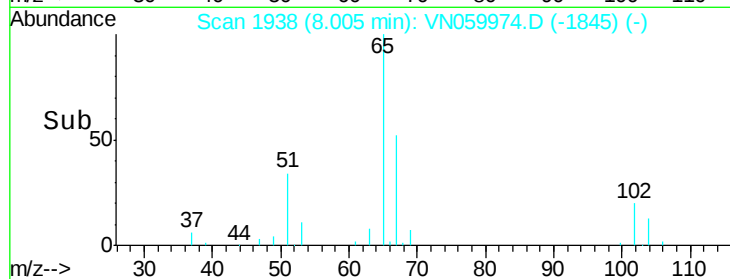
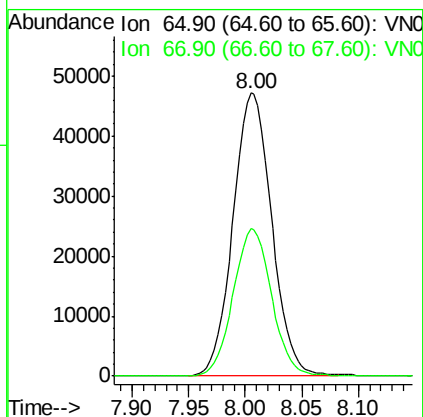
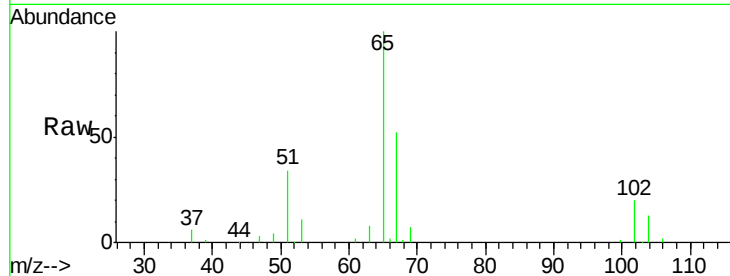




#33
 1,2-Dichloroethane-d4
 Concen: 51.19 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

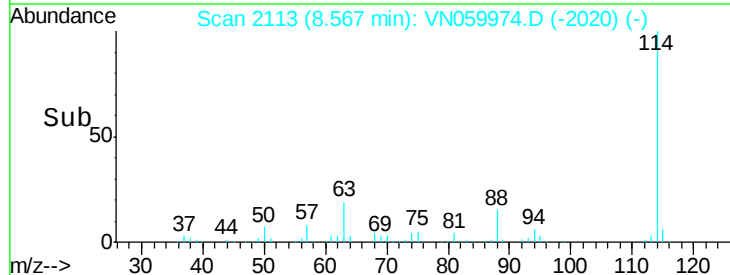
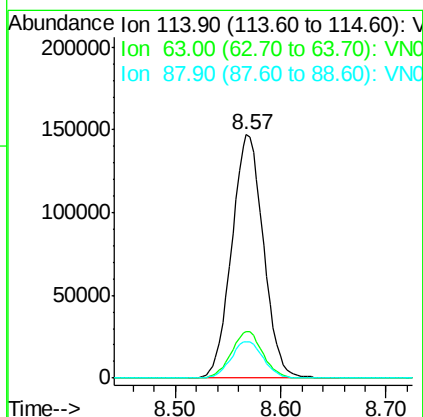
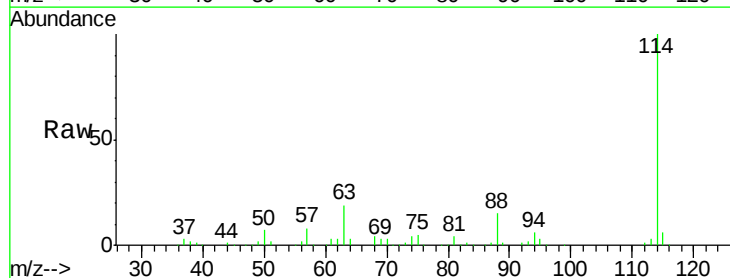
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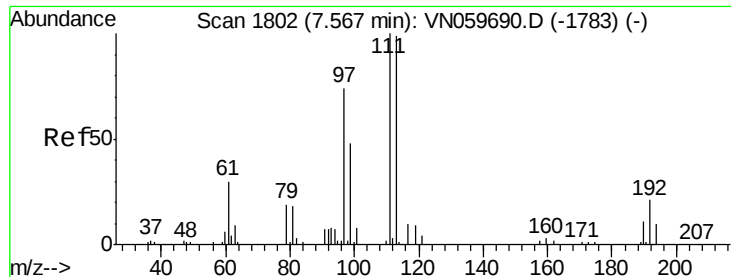
Tgt Ion: 65 Resp: 112396
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

Tgt Ion: 114 Resp: 306205
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 43.6
 88 15.1 0.0 31.4

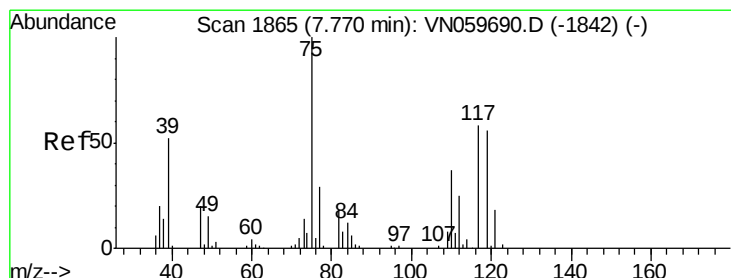
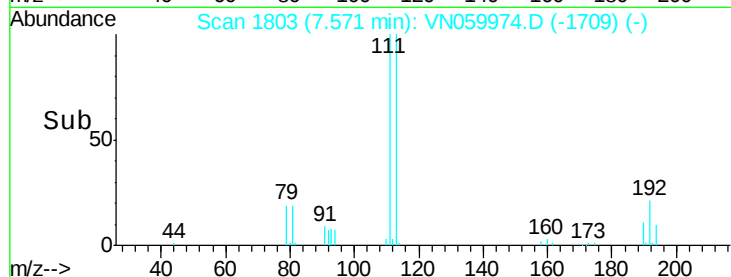
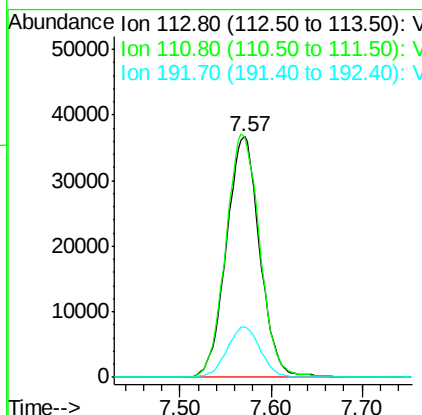
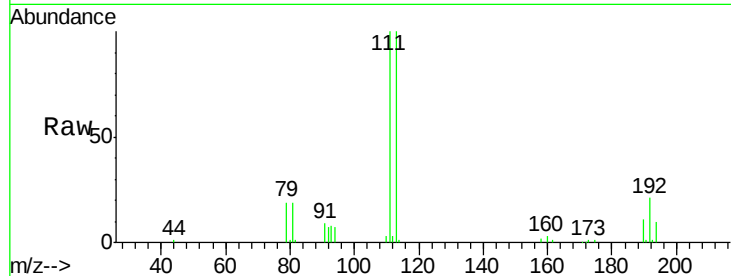




#35
 Dibromofluoromethane
 Concen: 51.18 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

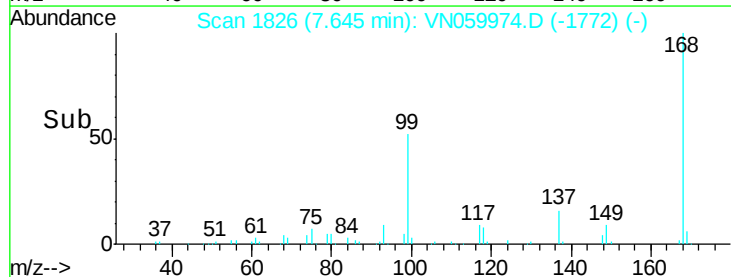
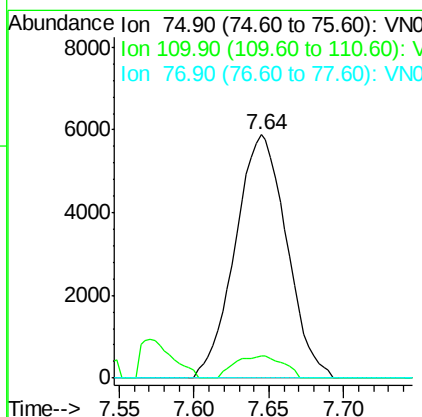
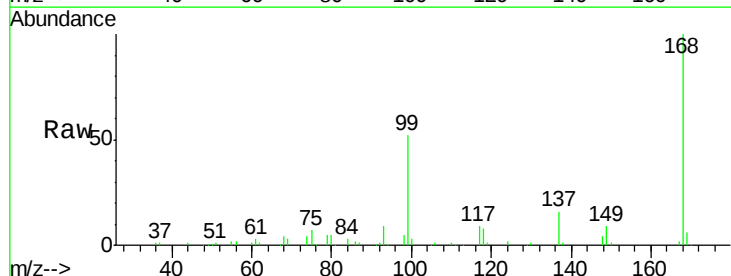
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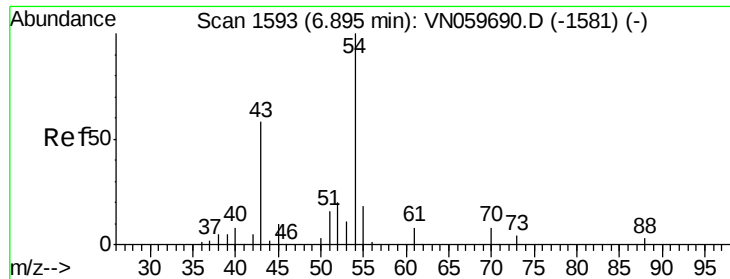
Tgt Ion: 113 Resp: 93457
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.5 125.3
 192 20.7 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.27 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

Tgt Ion: 75 Resp: 14049
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.6 49.7#
 77 0.0 25.1 37.7#

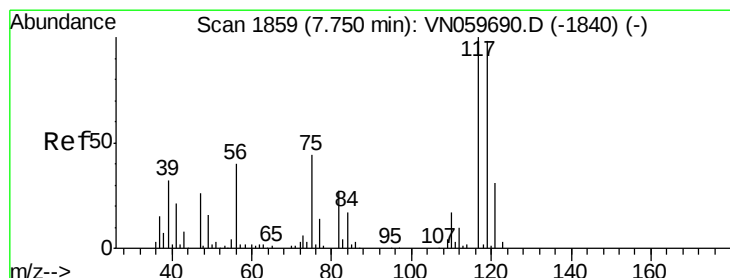
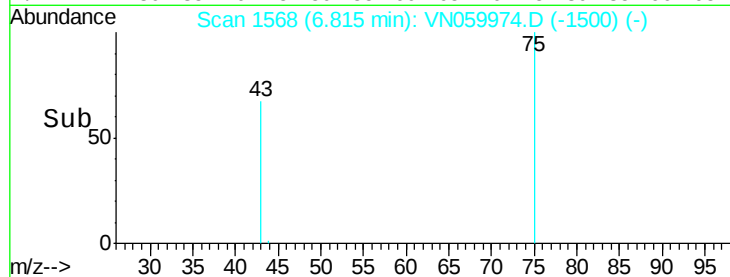
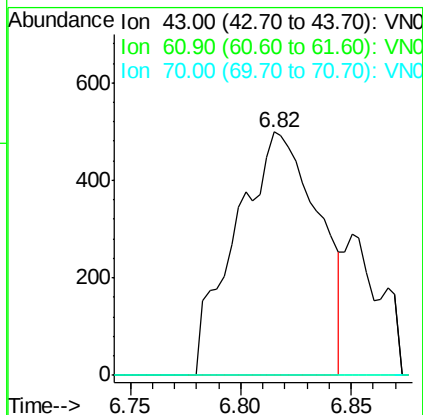
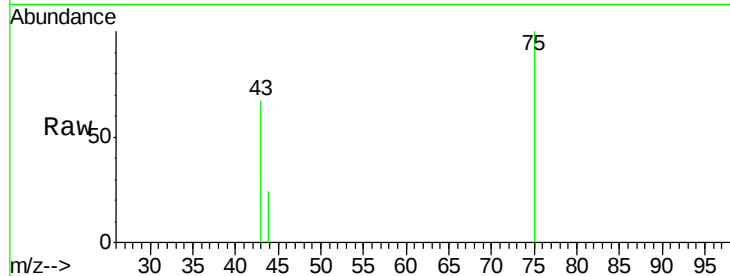




#37
Ethyl Acetate
 Concen: 0.52 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. -0.08 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

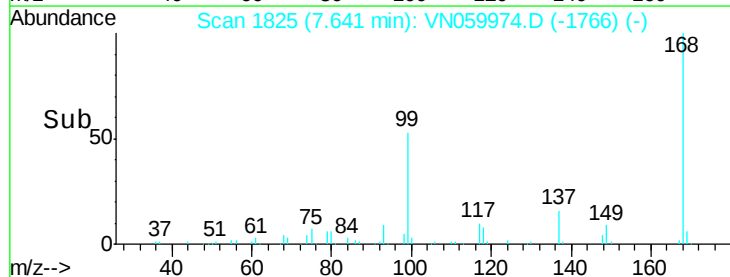
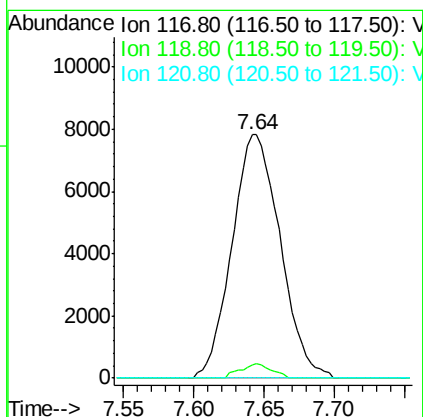
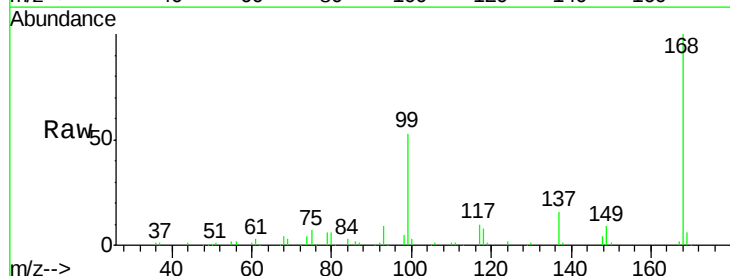
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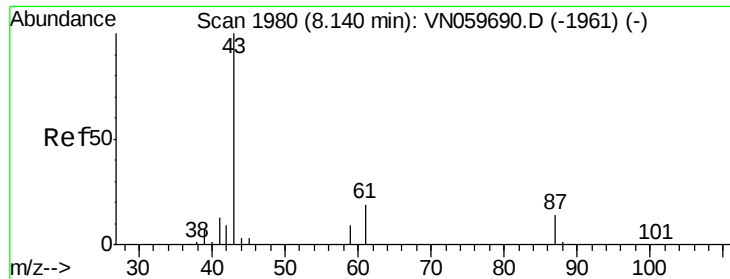
Tgt Ion: 43 Resp: 1296
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
 Concen: 6.45 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

Tgt Ion: 117 Resp: 18703
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.5 114.7#
 121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 12.80 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB126526ZHE#09

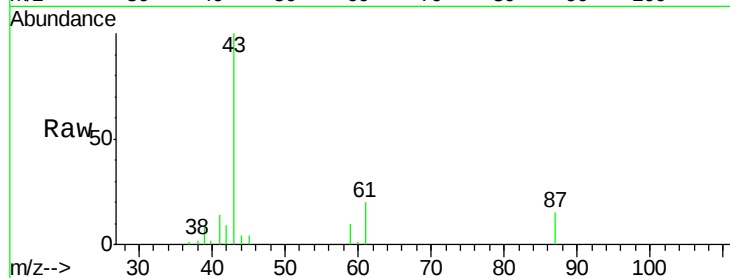
Tgt Ion: 43 Resp: 55070

Ion Ratio Lower Upper

43 100

61 19.6 20.2 30.2#

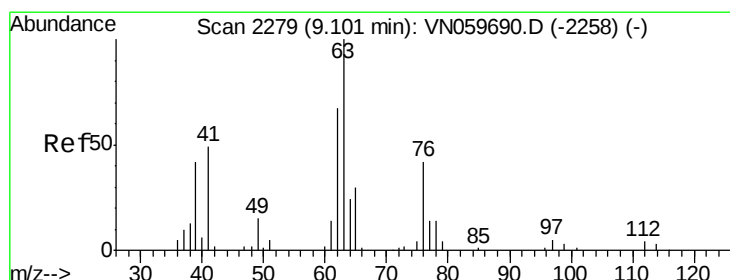
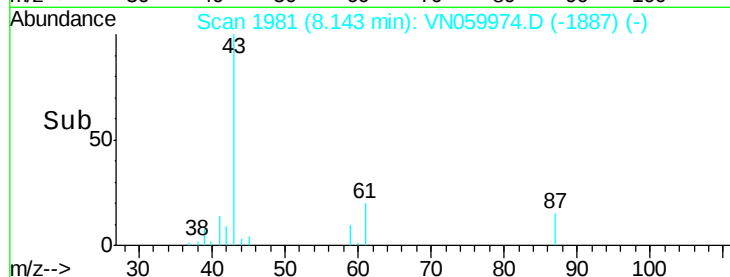
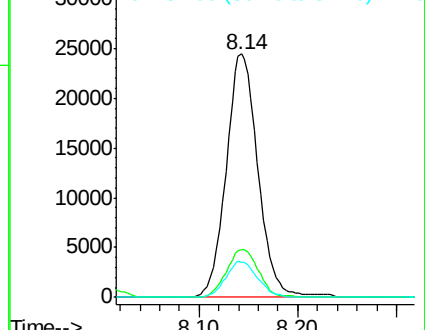
87 14.6 9.5 14.3#



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: 0.60 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059974.D

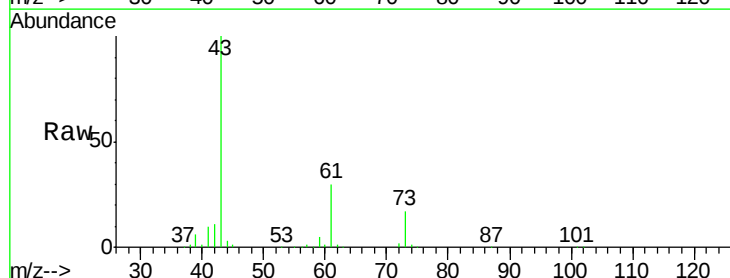
Acq: 3 Feb 2020 15:02

Tgt Ion: 63 Resp: 1179

Ion Ratio Lower Upper

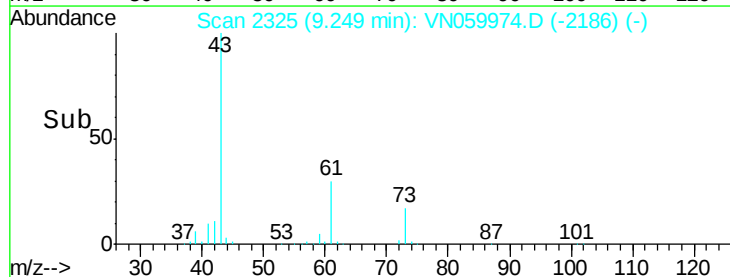
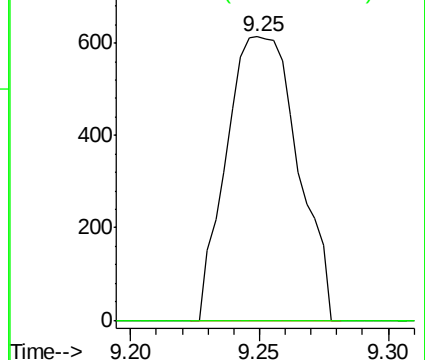
63 100

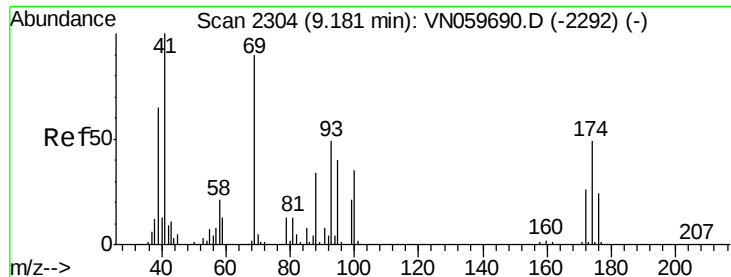
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

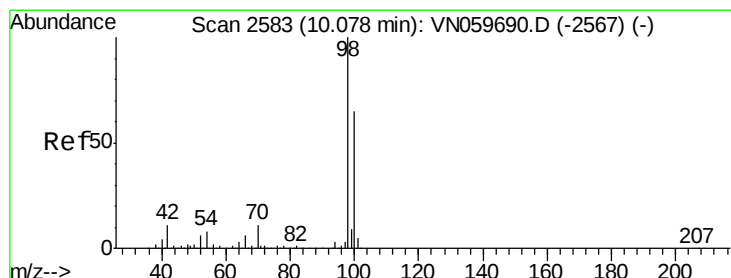
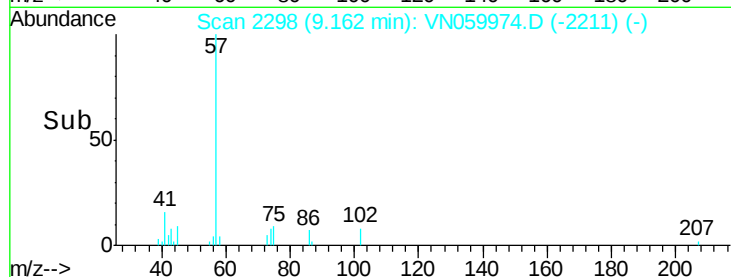
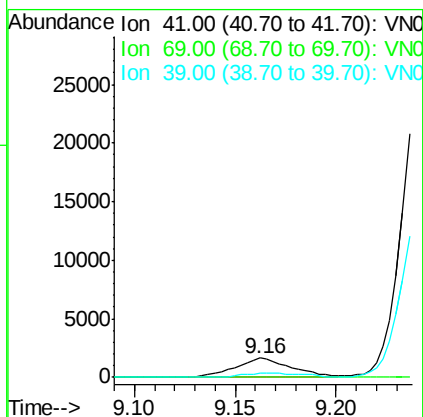
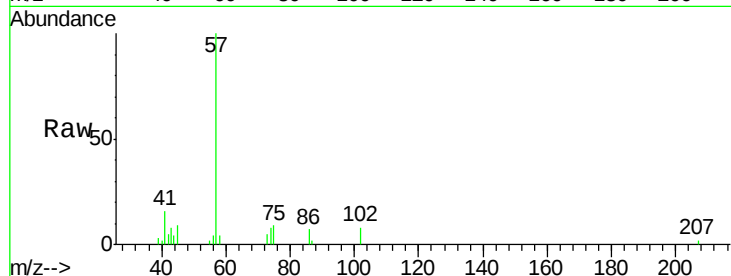




#48
Methyl methacrylate
Concen: 1.65 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059974.D
Acq: 3 Feb 2020 15:02

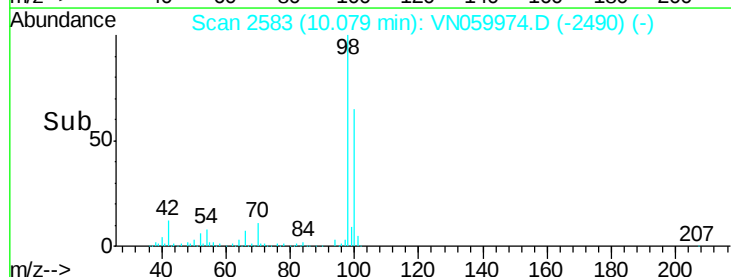
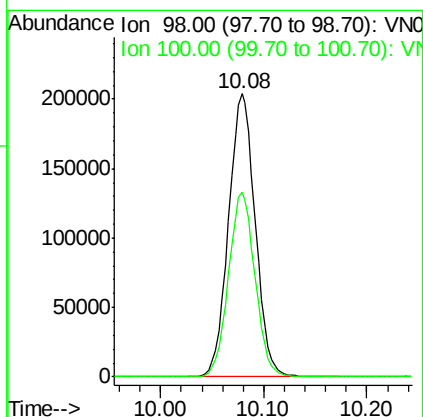
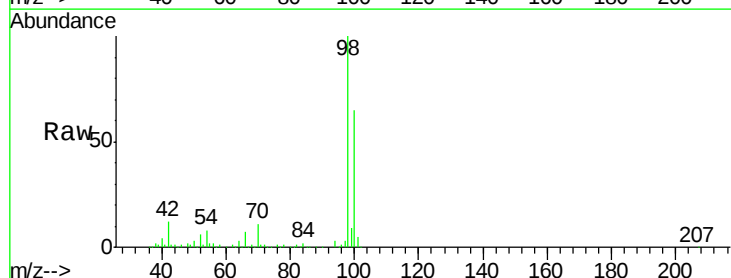
Instrument :
MSVOA_N
ClientSampleId :
PB126526ZHE#09

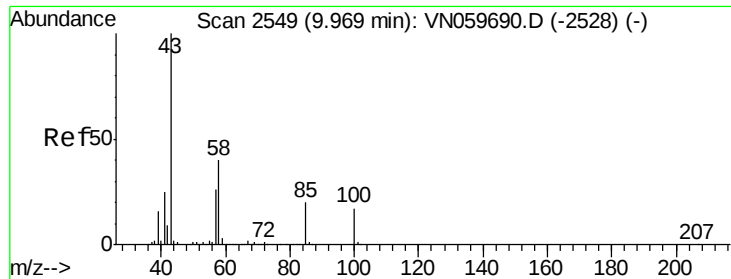
Tgt Ion: 41 Resp: 3184
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.96 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059974.D
Acq: 3 Feb 2020 15:02

Tgt Ion: 98 Resp: 367598
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.37 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

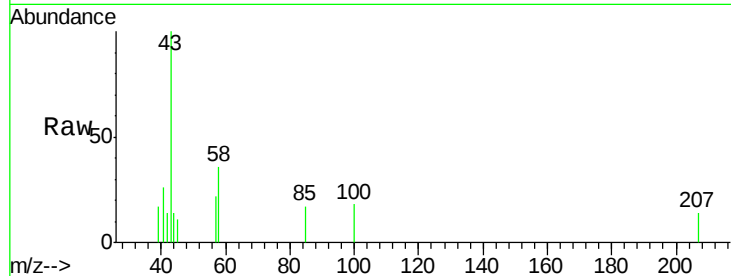
PB126526ZHE#09

Tgt Ion: 43 Resp: 3410

Ion Ratio Lower Upper

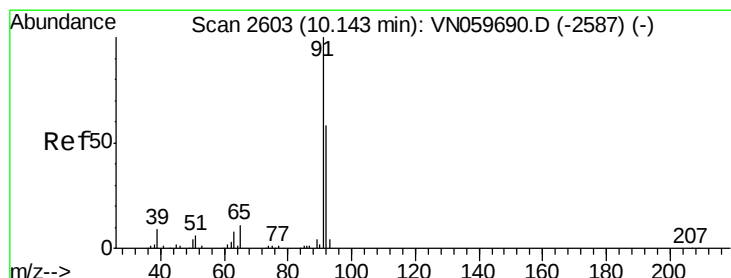
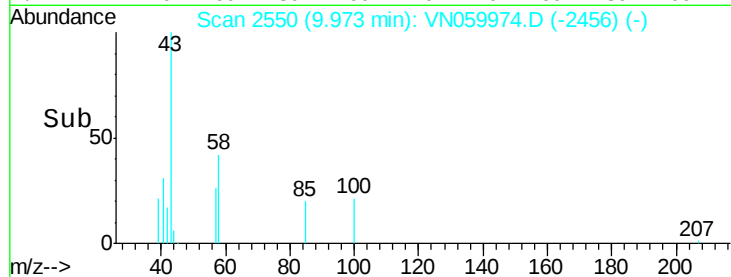
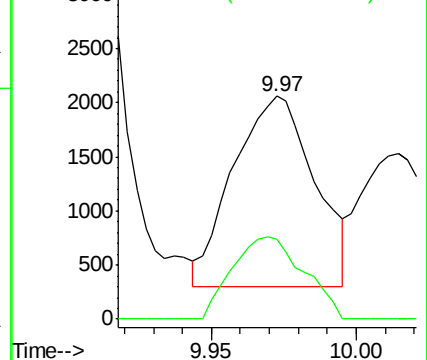
43 100

58 38.2 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.20 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059974.D

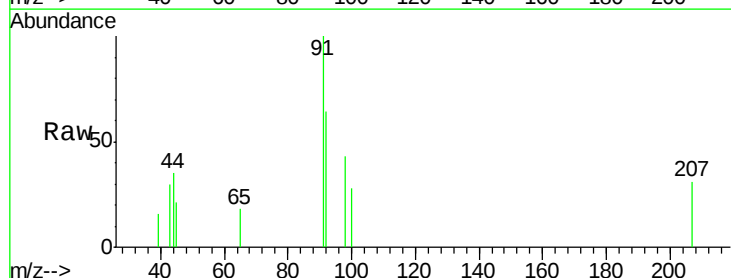
Acq: 3 Feb 2020 15:02

Tgt Ion: 92 Resp: 1005

Ion Ratio Lower Upper

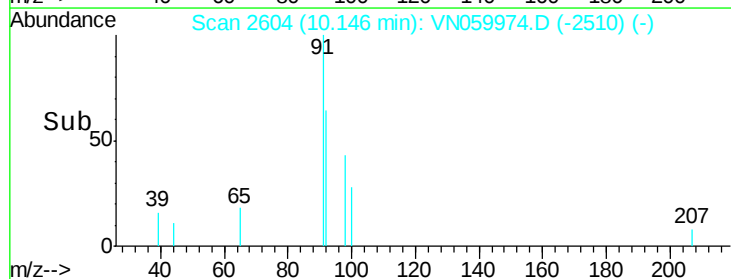
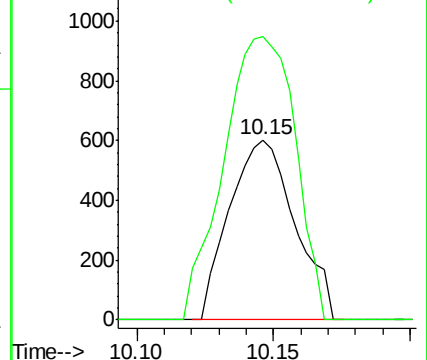
92 100

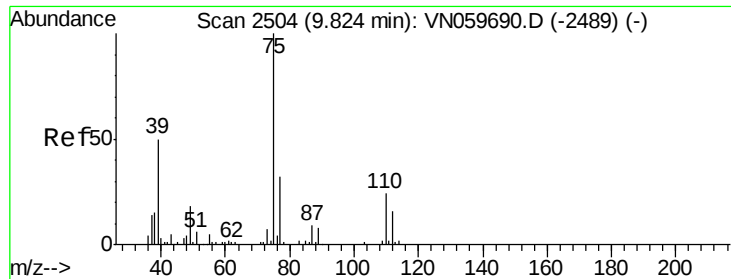
91 171.5 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

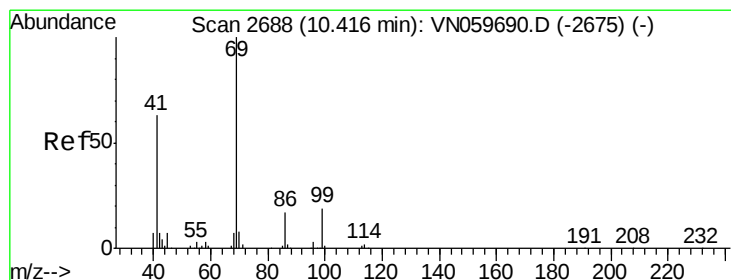
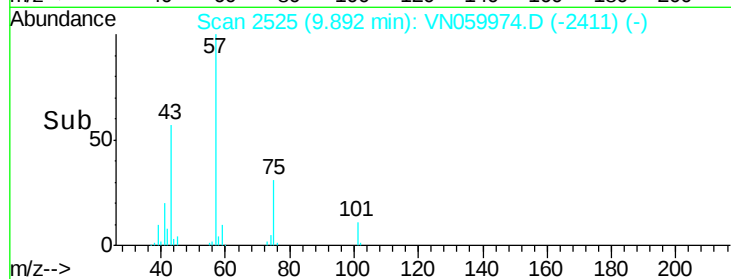
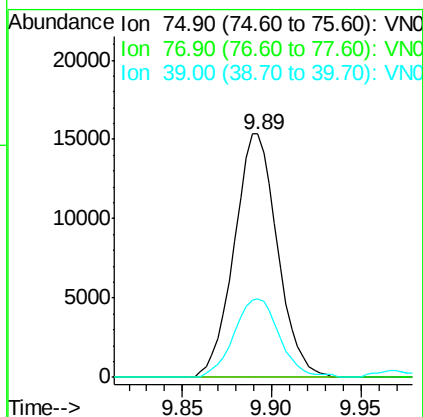
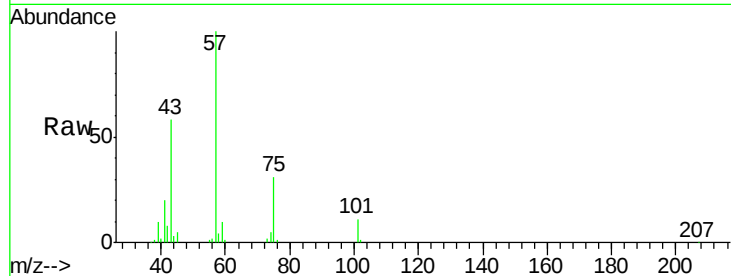




#54
 cis-1,3-Dichloropropene
 Concen: 7.91 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

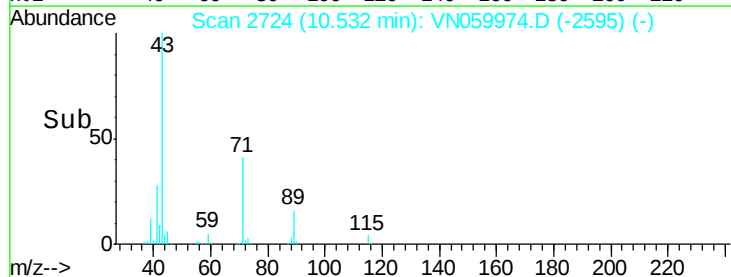
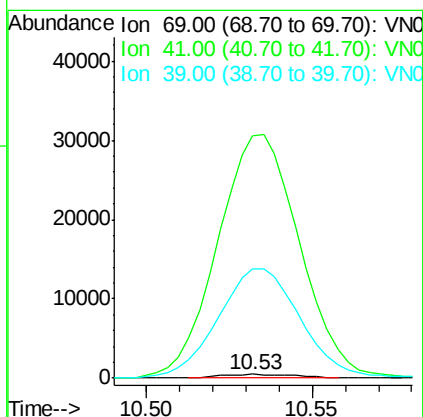
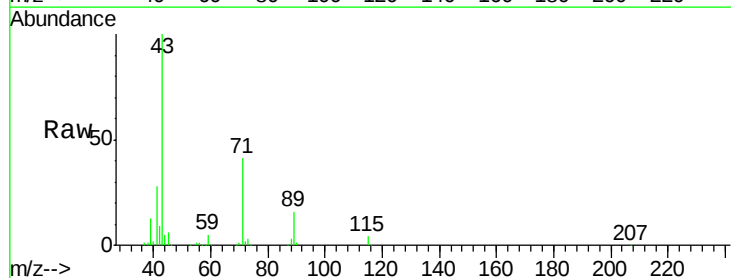
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126526ZHE#09

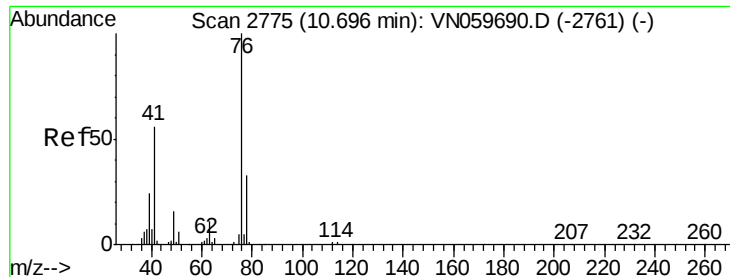
Tgt Ion: 75 Resp: 25992
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 32.3 46.1 69.1#



#56
 Ethyl methacrylate
 Concen: 0.23 ug/l
 RT: 10.53 min Scan# 2724
 Delta R.T. 0.12 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

Tgt Ion: 69 Resp: 710
 Ion Ratio Lower Upper
 69 100
 41 7493.2 57.1 85.7#
 39 3373.8 34.7 52.1#

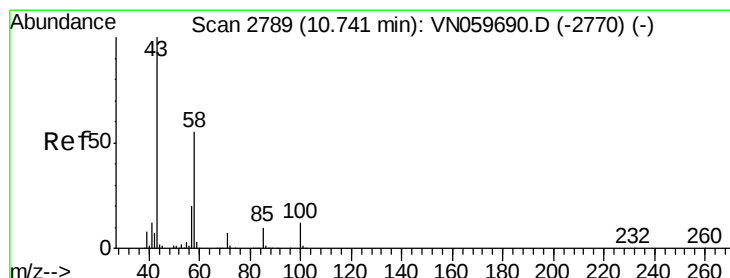
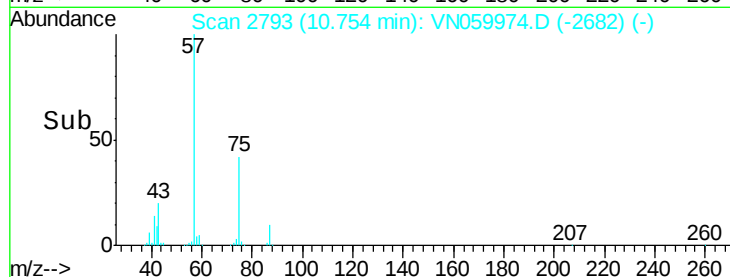
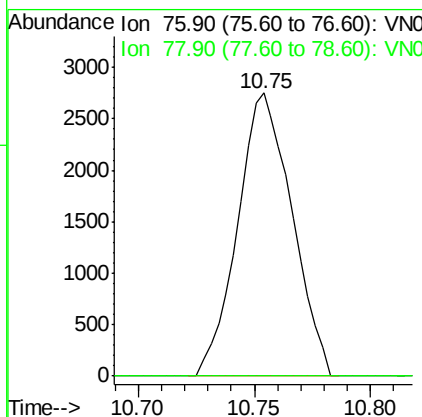
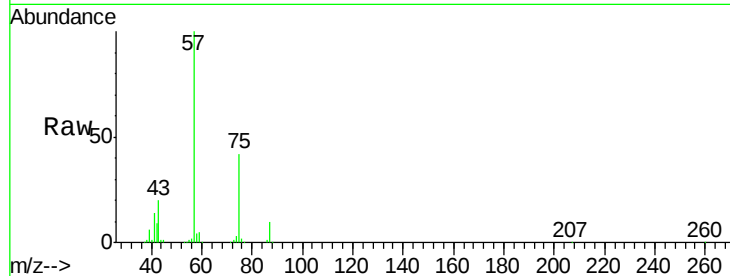




#57
 1,3-Dichloropropane
 Concen: 1.42 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

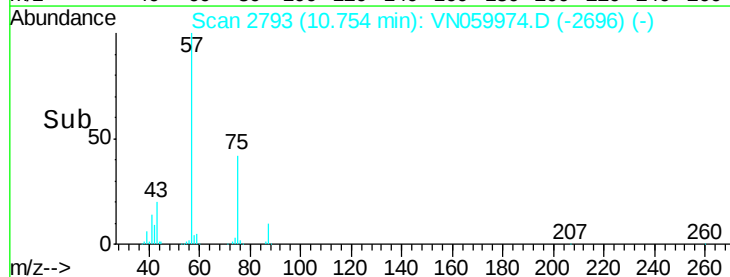
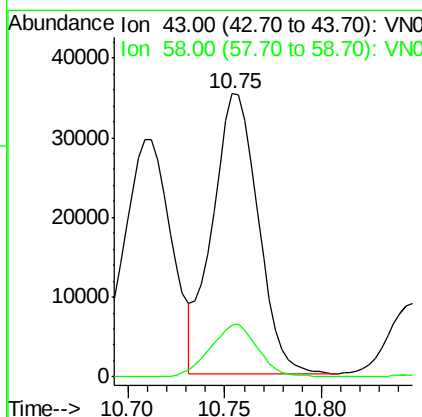
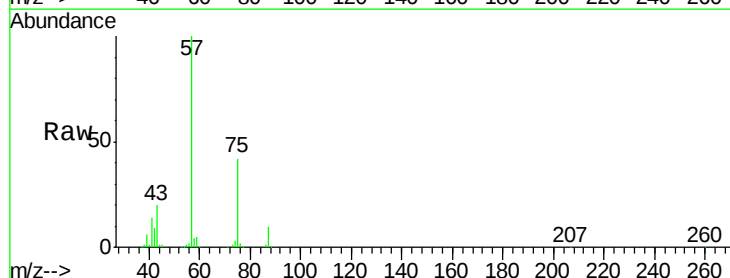
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126526ZHE#09

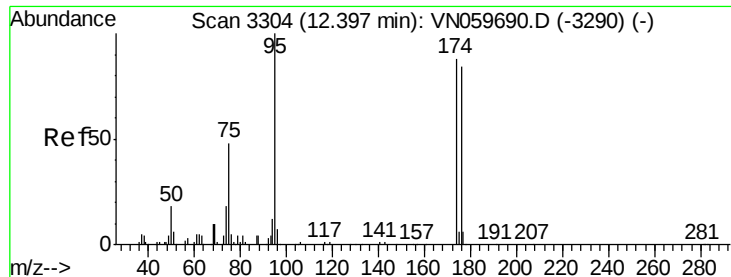
Tgt Ion: 76 Resp: 4475
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 31.63 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059974.D
 Acq: 3 Feb 2020 15:02

Tgt Ion: 43 Resp: 57938
 Ion Ratio Lower Upper
 43 100
 58 19.3 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 51.00 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB126526ZHE#09

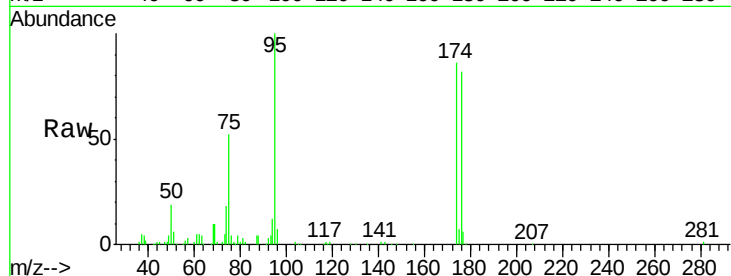
Tgt Ion: 95 Resp: 130085

Ion Ratio Lower Upper

95 100

174 86.2 0.0 151.4

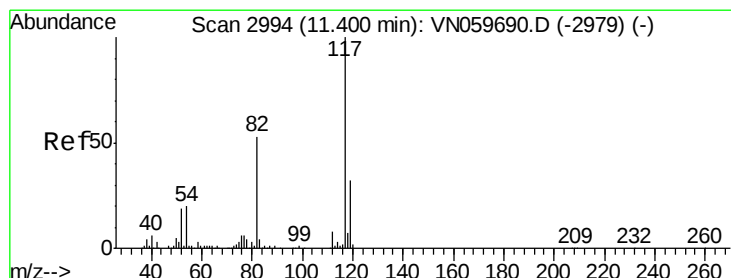
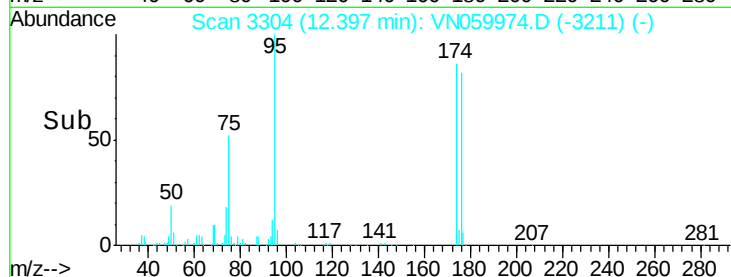
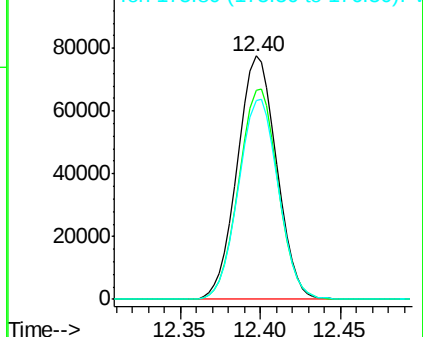
176 83.5 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059974.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059974.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059974.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

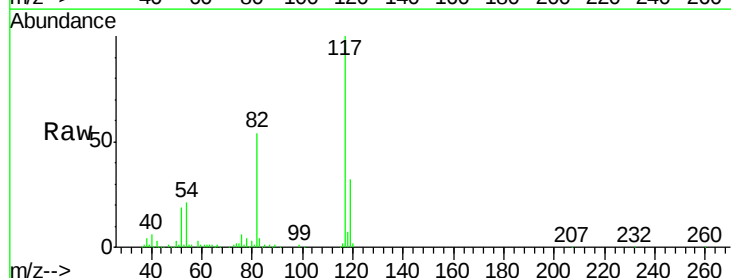
Tgt Ion: 117 Resp: 283822

Ion Ratio Lower Upper

117 100

82 53.7 45.9 68.9

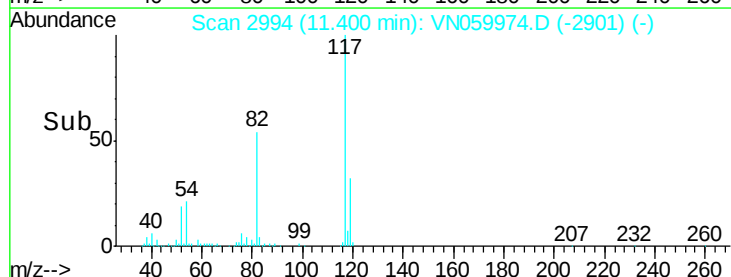
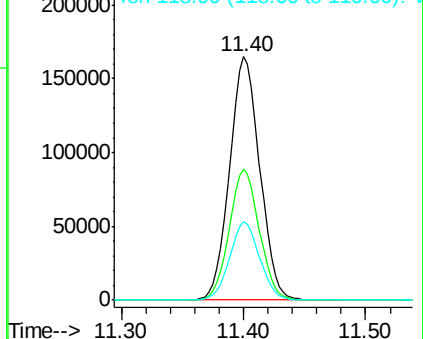
119 32.0 25.5 38.3

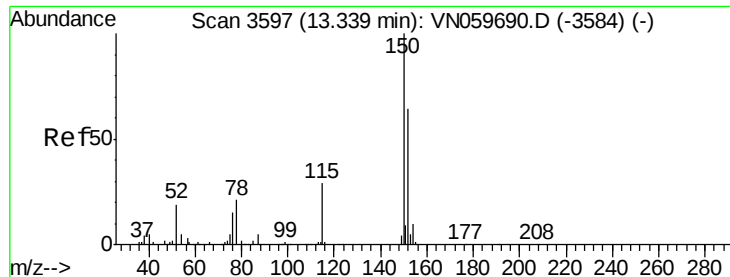


Abundance Ion 116.90 (116.60 to 117.60): VN059974.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059974.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059974.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB126526ZHE#09

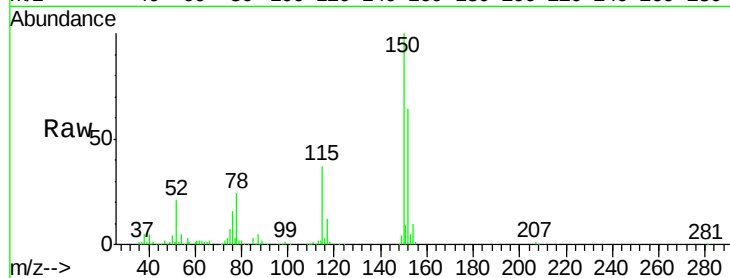
Tgt Ion:152 Resp: 126108

Ion Ratio Lower Upper

152 100

115 57.7 30.3 90.9

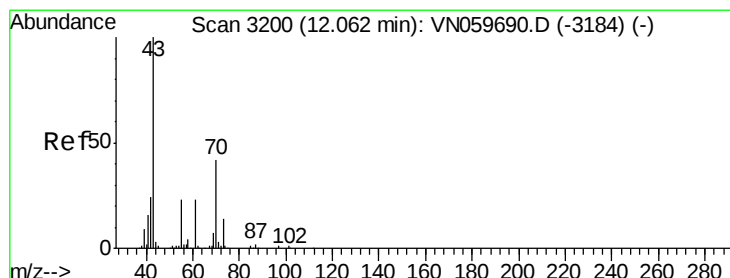
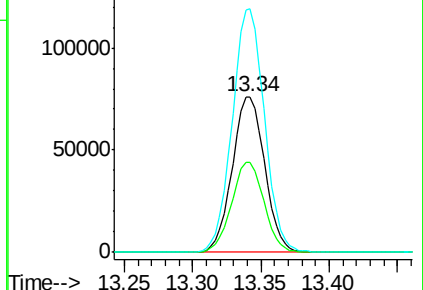
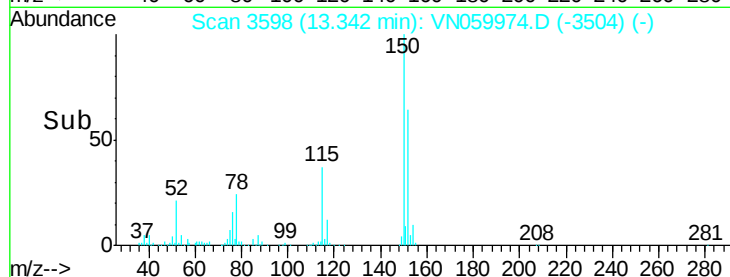
150 155.1 0.0 345.2



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: 0.54 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Tgt Ion: 43 Resp: 1952

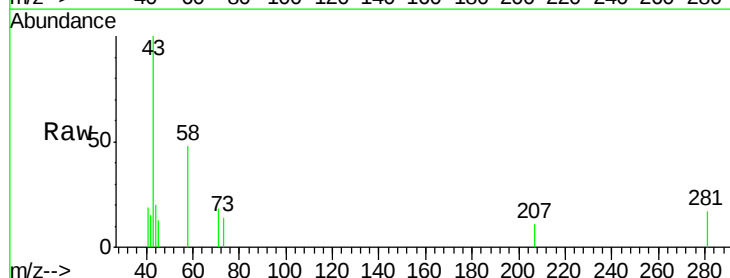
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

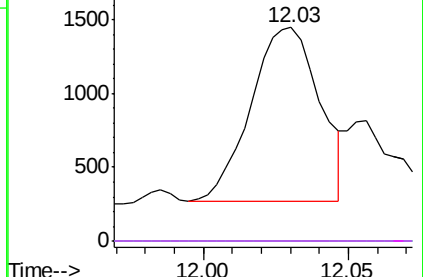
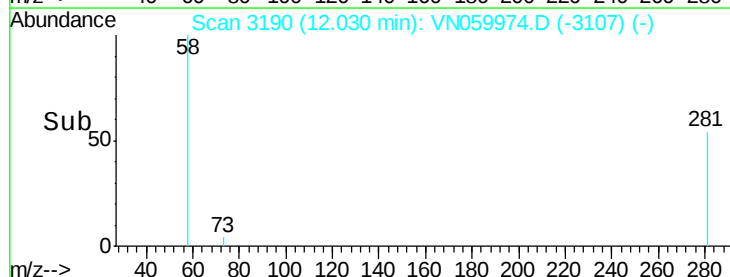


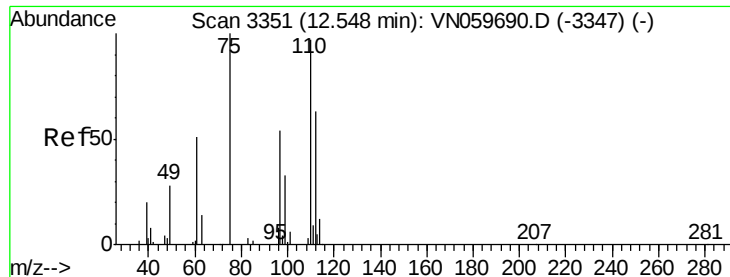
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.26 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

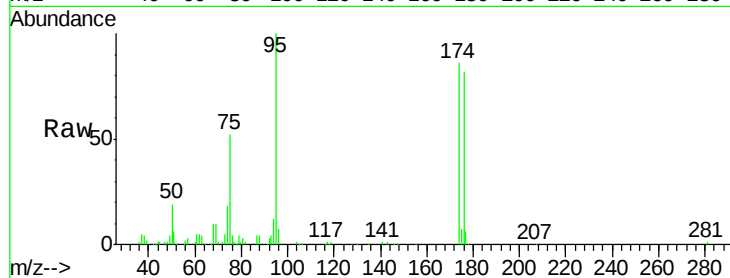
PB126526ZHE#09

Tgt Ion: 75 Resp: 66348

Ion Ratio Lower Upper

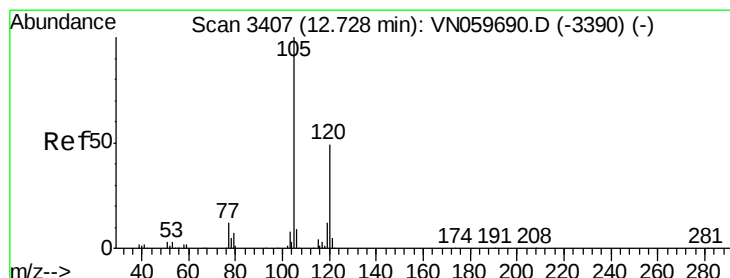
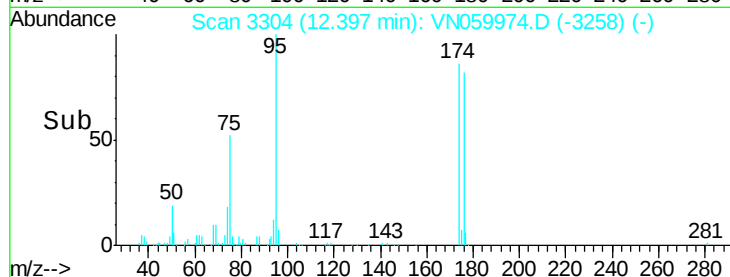
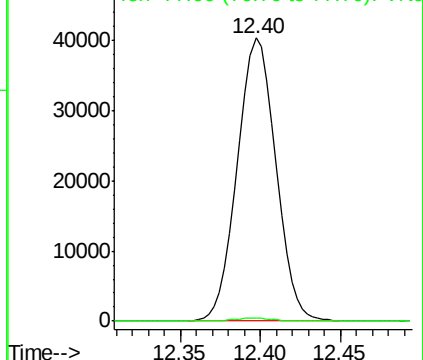
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.28 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059974.D

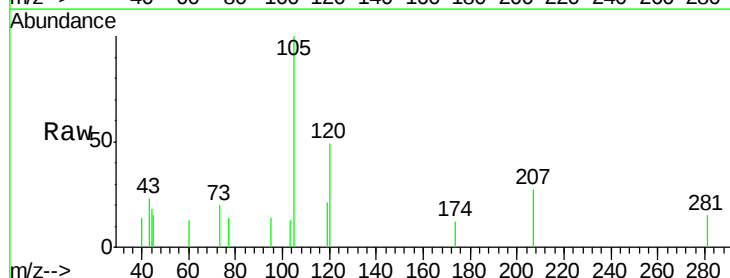
Acq: 3 Feb 2020 15:02

Tgt Ion: 105 Resp: 2178

Ion Ratio Lower Upper

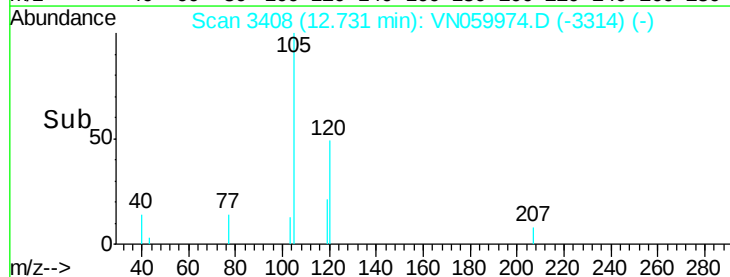
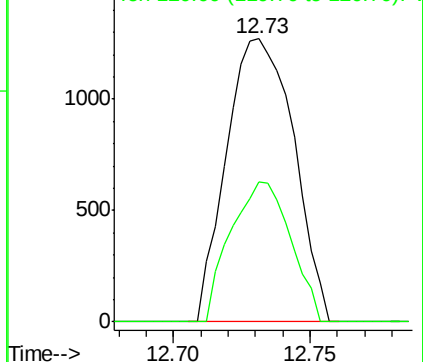
105 100

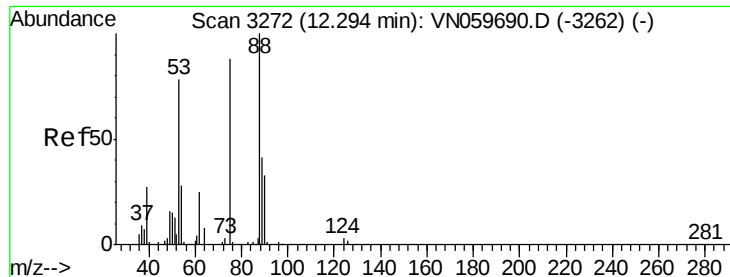
120 44.2 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 67.14 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB126526ZHE#09

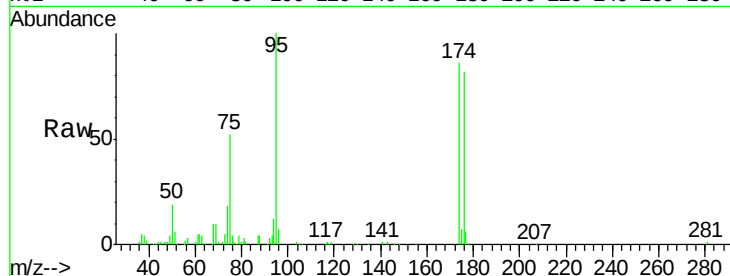
Tgt Ion: 75 Resp: 66348

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

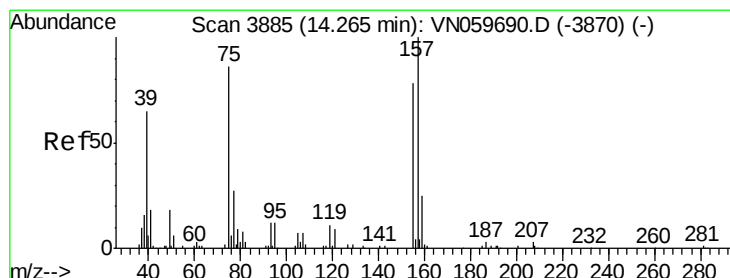
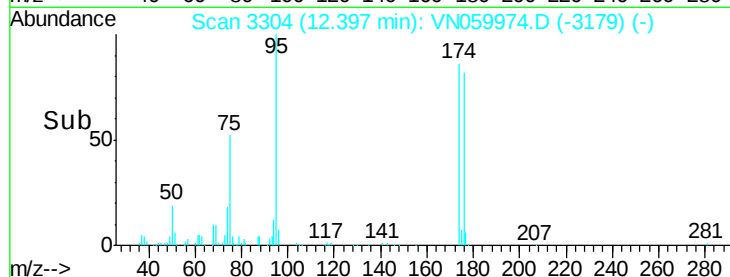
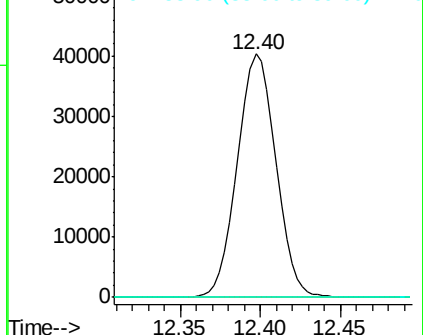
89 0.0 35.4 53.2#



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: 14.26 min Scan# 3882

Delta R.T. -0.01 min

Lab File: VN059974.D

Acq: 3 Feb 2020 15:02

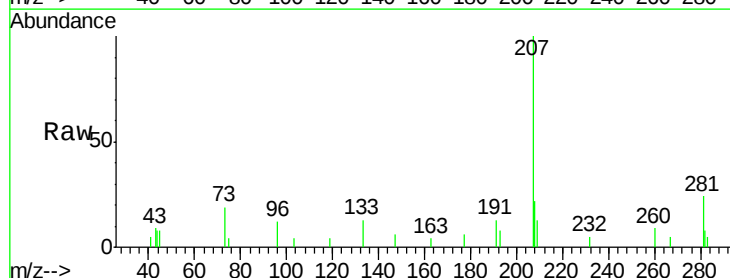
Tgt Ion: 75 Resp: 62

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

