

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
 Data File : VN060000.D
 Acq On : 4 Feb 2020 17:27
 Operator : JC/MD
 Sample : PB126559ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126559ZHE#13

Quant Time: Feb 05 01:25:06 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	204182	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	318785	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	296933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138195	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	117897	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
35) Dibromofluoromethane	7.57	113	96138	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
50) Toluene-d8	10.08	98	382858	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	12.40	95	141117	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	

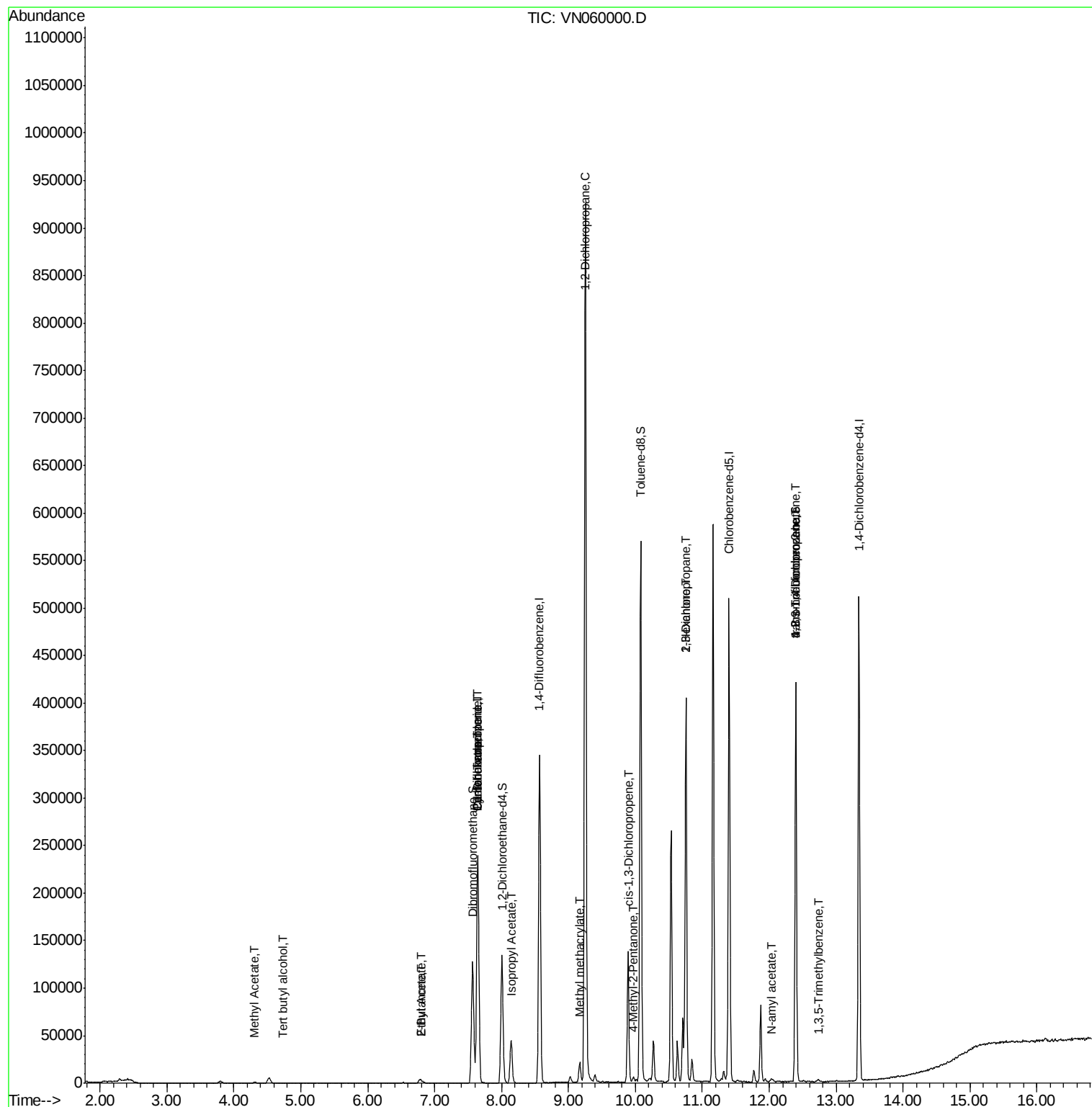
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	159	0.417	ug/l #	72
16) Acetone	3.79	43	3904	Below Cal		96
18) Methyl Acetate	4.30	43	1448	0.547	ug/l #	58
20) Methylene Chloride	4.51	84	2503	Below Cal	#	84
25) 2-Butanone	6.81	43	791	0.616	ug/l #	50
31) Cyclohexane	7.64	56	3907	1.165	ug/l #	15
36) 1,1-Dichloropropene	7.64	75	13986	5.038	ug/l #	49
37) Ethyl Acetate	6.81	43	791	0.304	ug/l #	69
38) Carbon Tetrachloride	7.64	117	18539	6.139	ug/l #	16
43) Isopropyl Acetate	8.14	43	54595	12.190	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1054	0.514	ug/l #	44
48) Methyl methacrylate	9.16	41	2922	1.459	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3419	1.321	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	25759	7.529	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	4231	1.287	ug/l #	42
59) 2-Hexanone	10.75	43	58872	30.867	ug/l #	54
74) N-amyl acetate	12.02	43	3422	0.870	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	72033	30.973	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1837	0.216	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	72033	66.514	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.35	75	266	Below Cal	#	6

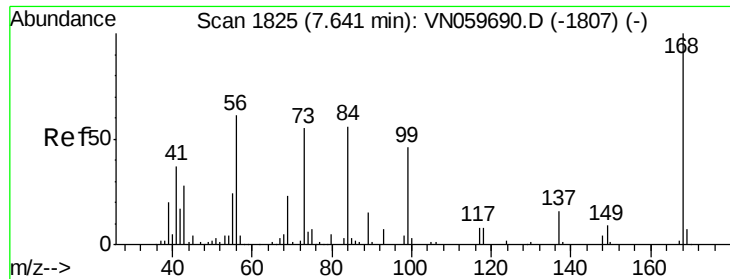
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

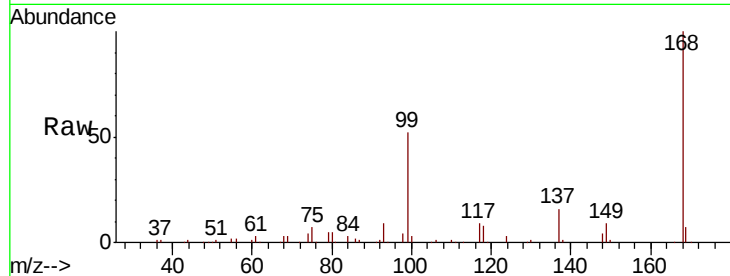
PB126559ZHE#13

Tot Ion:168 Resp: 204182

Ion Ratio Lower Upper

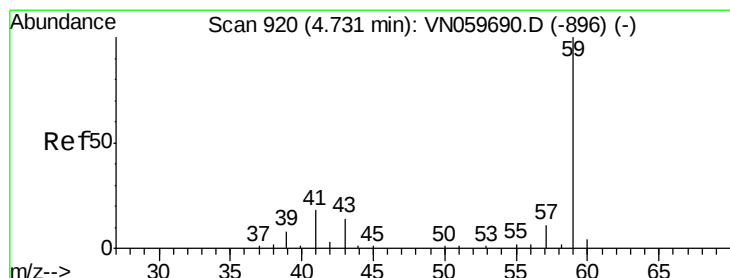
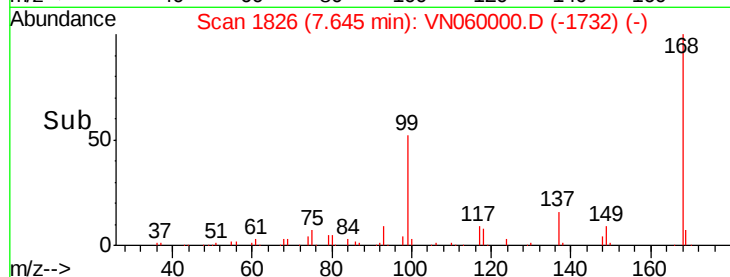
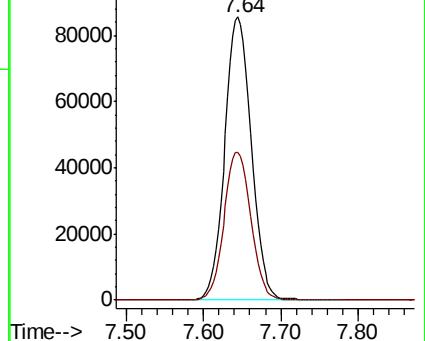
168 100

99 52.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN060000.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN060000.D (-1732) (-)



#11

Tert butyl alcohol

Concen: 0.417 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN060000.D

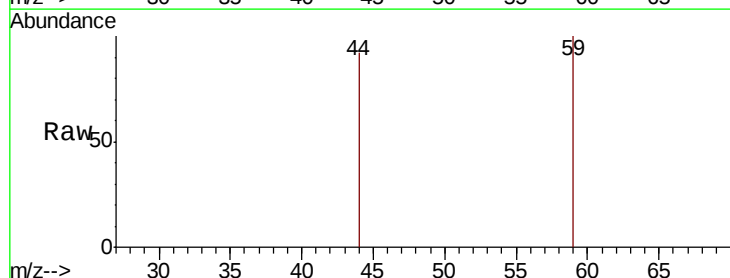
Acq: 4 Feb 2020 17:27

Tgt Ion: 59 Resp: 159

Ion Ratio Lower Upper

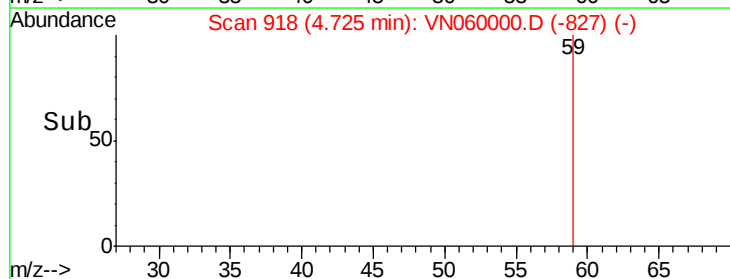
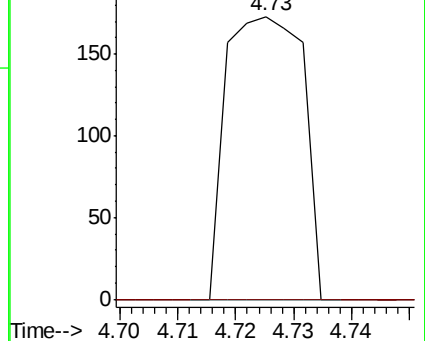
59 100

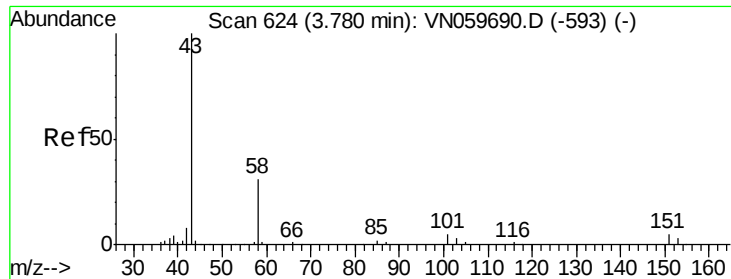
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN060000.D (-827) (-)

Ion 57.00 (56.70 to 57.70): VN060000.D (-827) (-)





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

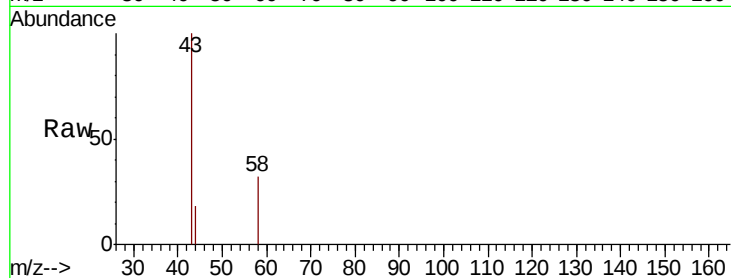
PB126559ZHE#13

Tot Ion: 43 Resp: 3904

Ion Ratio Lower Upper

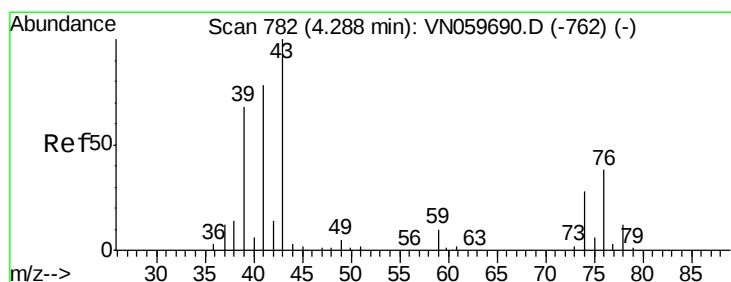
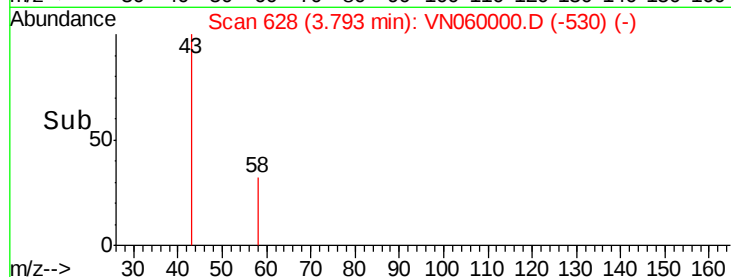
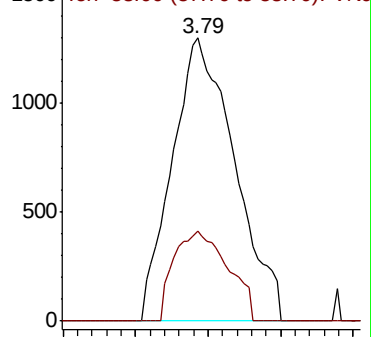
43 100

58 31.9 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.547 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN060000.D

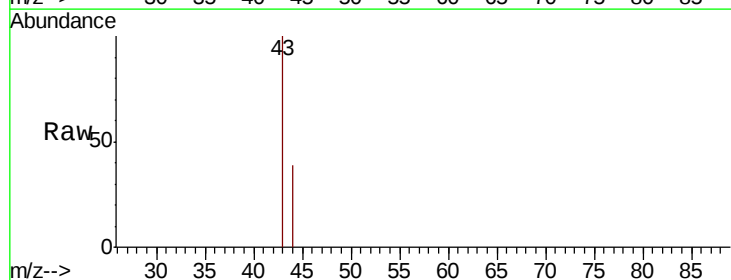
Acq: 4 Feb 2020 17:27

Tgt Ion: 43 Resp: 1448

Ion Ratio Lower Upper

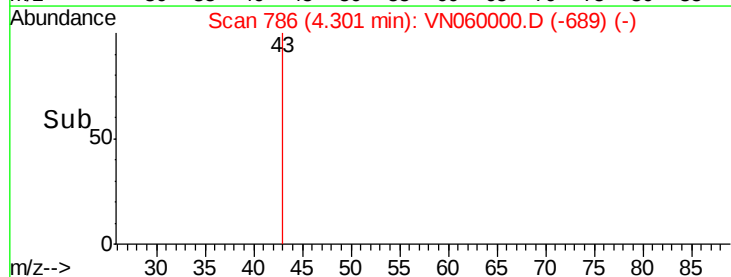
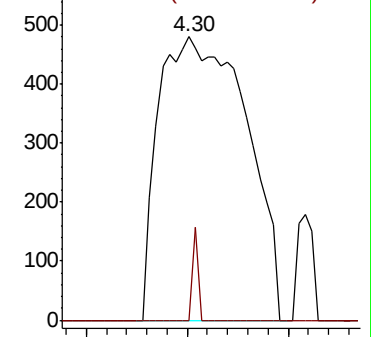
43 100

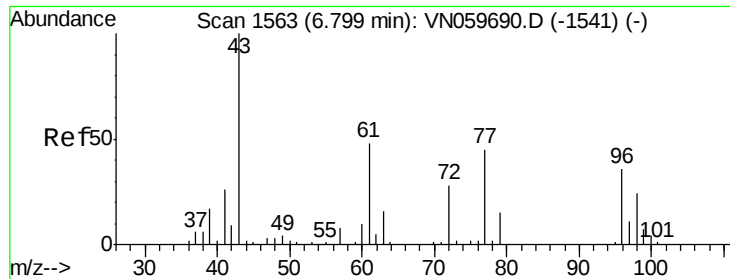
74 2.1 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.616 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

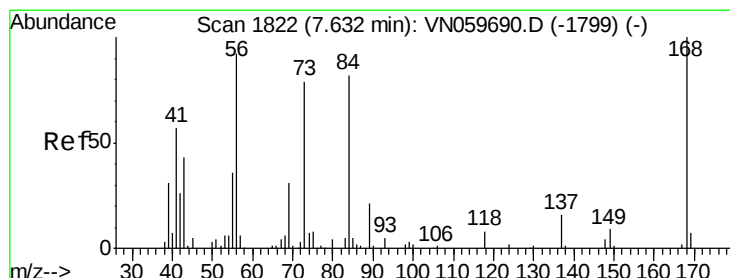
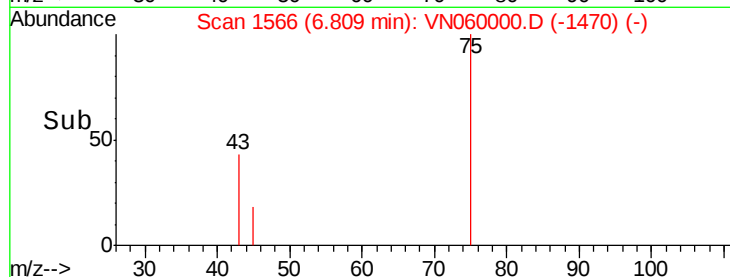
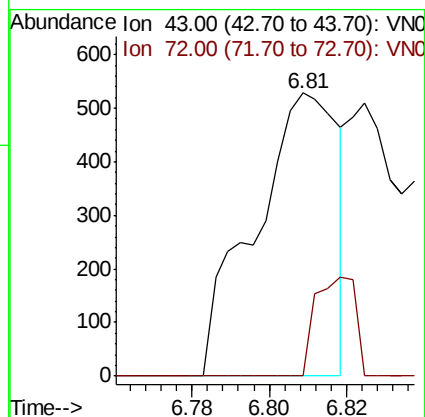
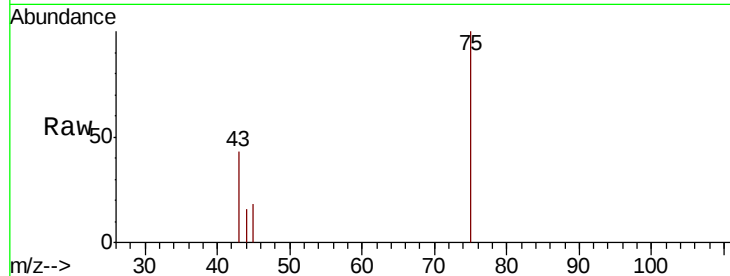
PB126559ZHE#13

Tot Ion: 43 Resp: 791

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#31

Cyclohexane

Concen: 1.165 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

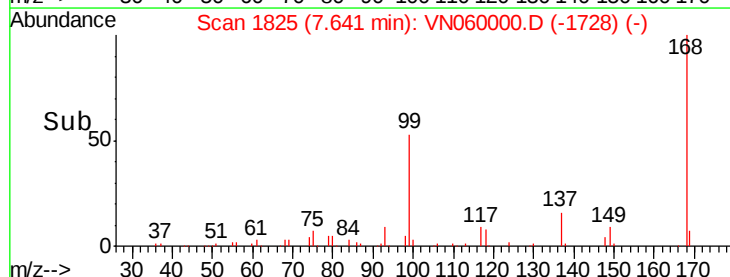
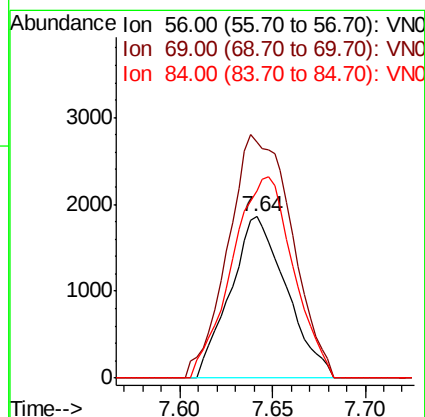
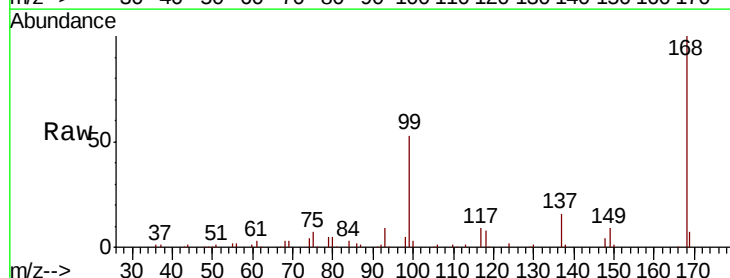
Tgt Ion: 56 Resp: 3907

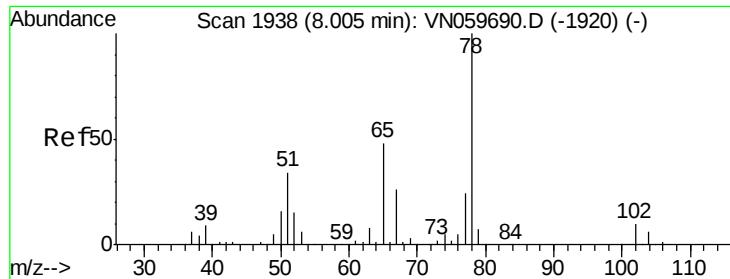
Ion Ratio Lower Upper

56 100

69 146.0 26.5 39.7#

84 116.3 65.3 97.9#

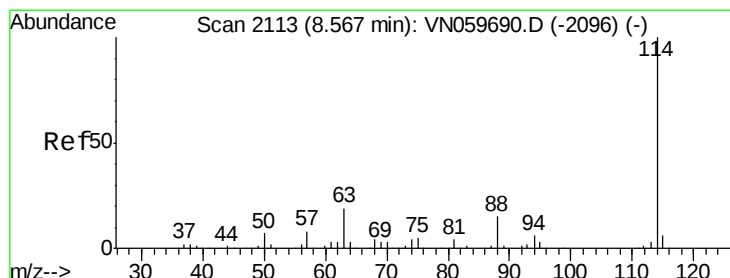
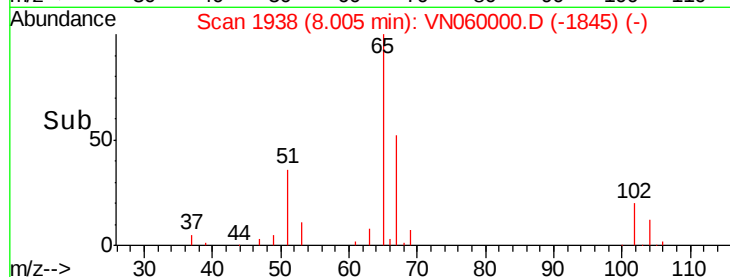
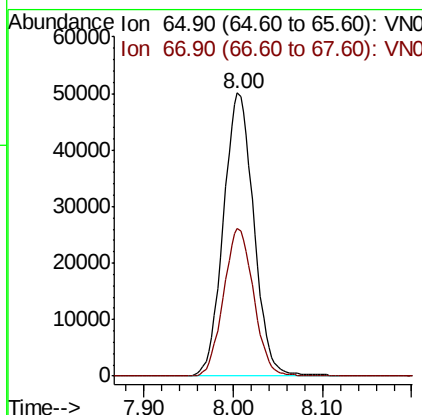
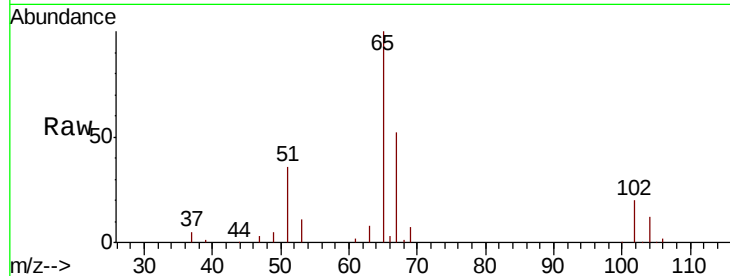




#33
 1,2-Dichloroethane-d4
 Concen: 51.994 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060000.D
 Acq: 4 Feb 2020 17:27

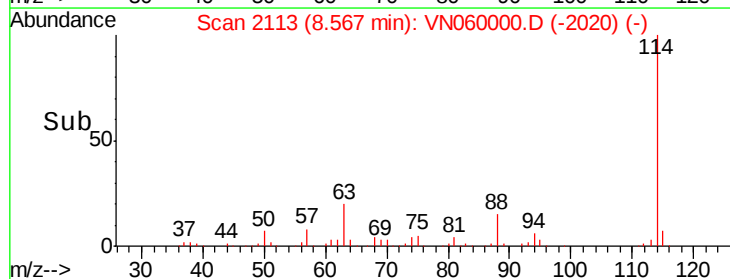
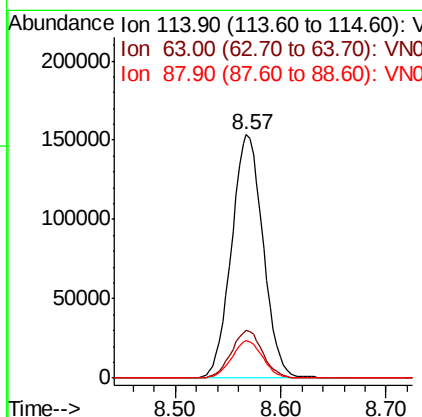
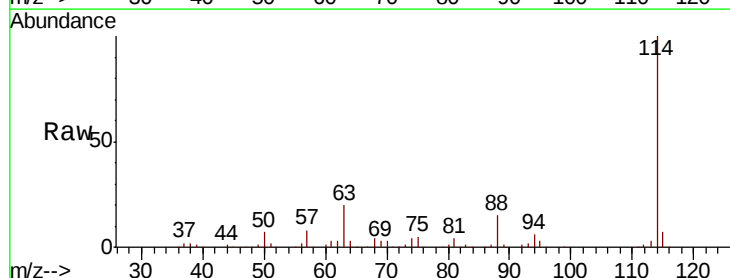
Instrument :
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 ClientSampleId :
 PB126559ZHE#13

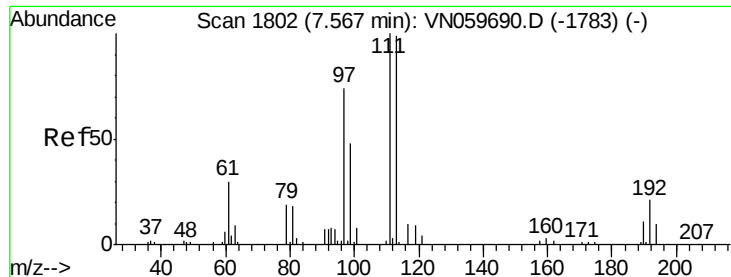
Tot Ion: 65 Resp: 117897
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060000.D
 Acq: 4 Feb 2020 17:27

Tgt Ion: 114 Resp: 318785
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 43.6
 88 15.3 0.0 31.4

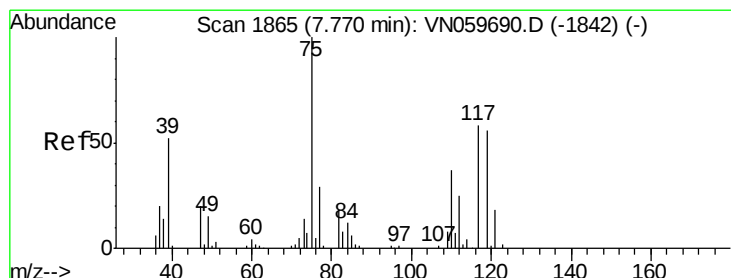
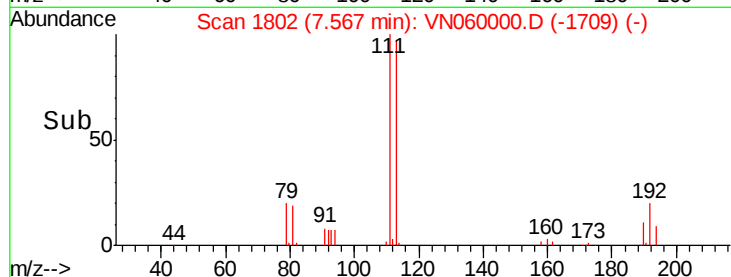
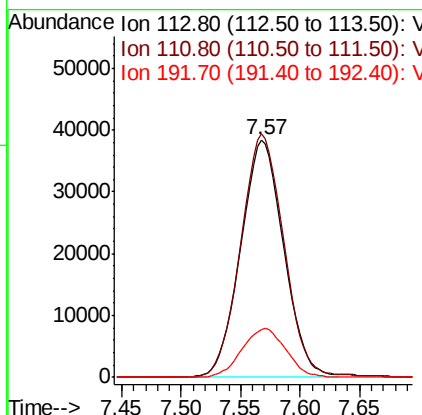
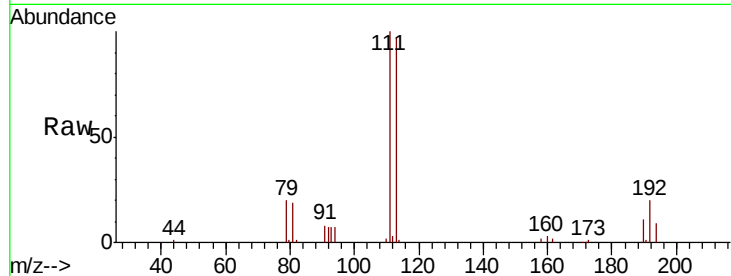




#35
 Dibromofluoromethane
 Concen: 50.571 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060000.D
 Acq: 4 Feb 2020 17:27

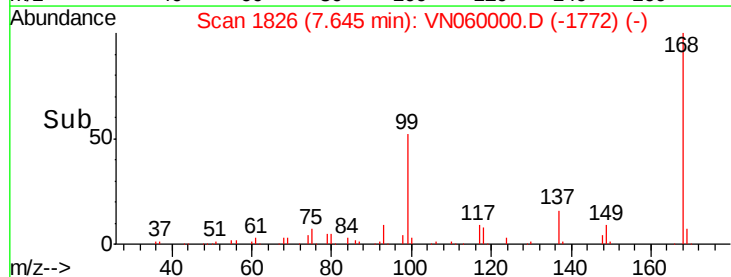
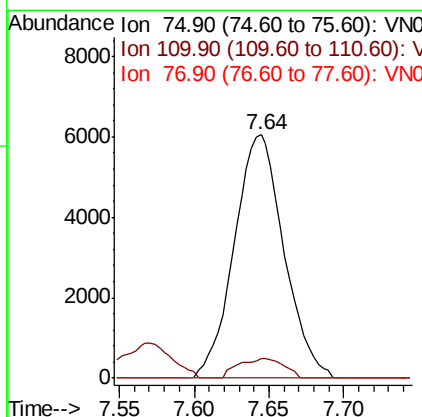
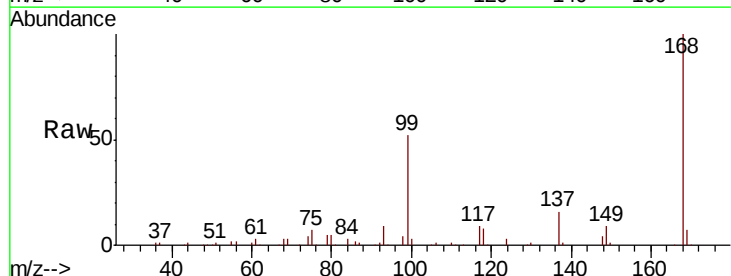
Instrument :
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 PB126559ZHE#13

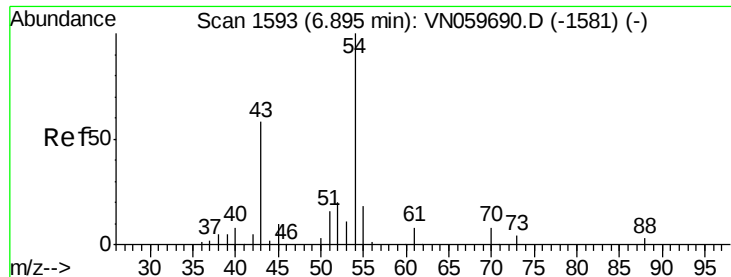
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.5	125.3
192	21.0	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 5.038 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060000.D
 Acq: 4 Feb 2020 17:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.6	49.7#
77	0.0	25.1	37.7#

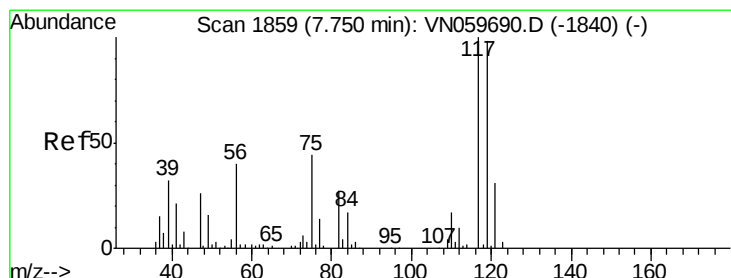
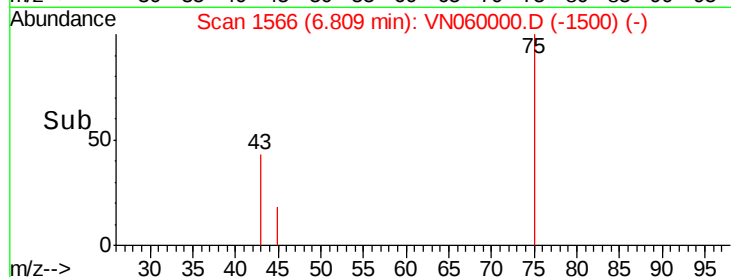
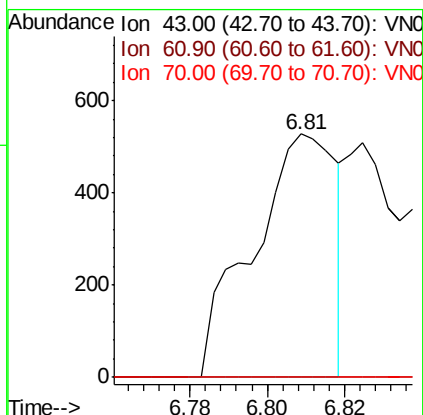
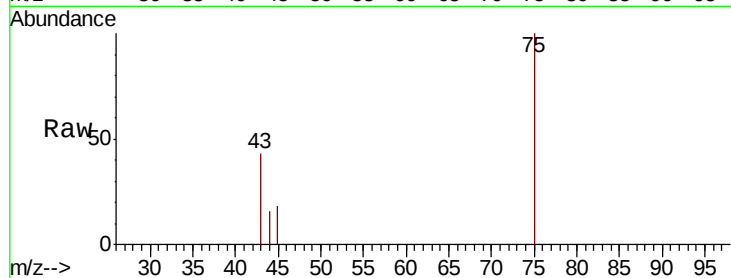




#37
Ethyl Acetate
Concen: 0.304 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.09 min
Lab File: VN060000.D
Acq: 4 Feb 2020 17:27

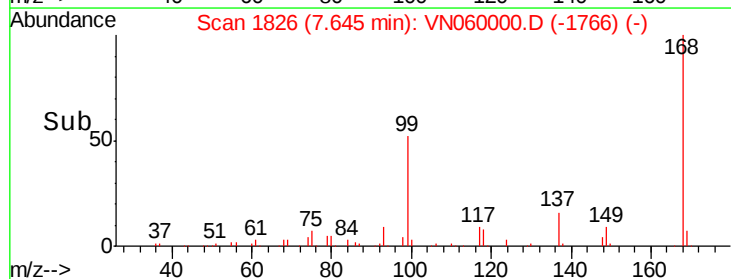
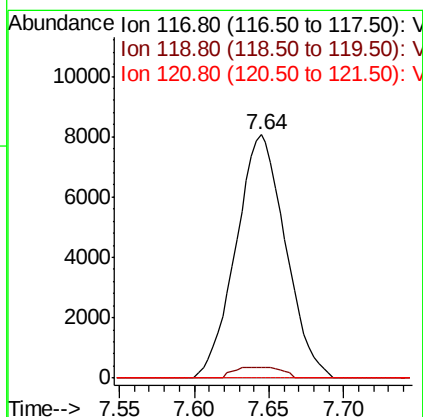
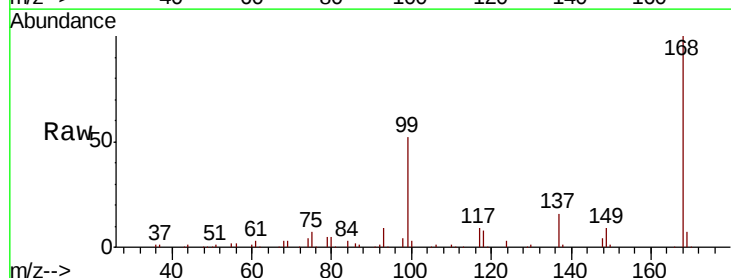
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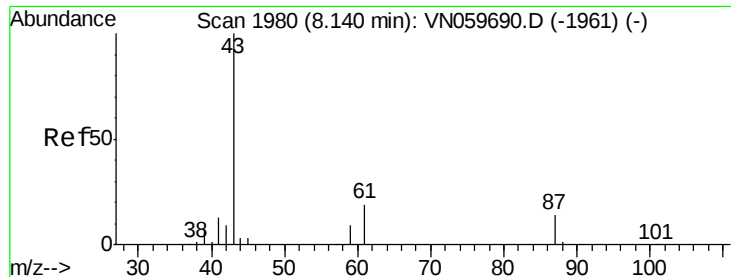
Tot Ion: 43 Resp: 791
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.139 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060000.D
Acq: 4 Feb 2020 17:27

Tgt Ion: 117 Resp: 18539
Ion Ratio Lower Upper
117 100
119 4.5 76.5 114.7#
121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 12.190 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#13

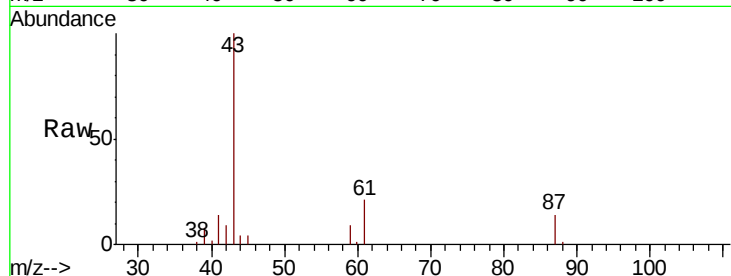
Tot Ion: 43 Resp: 54595

Ion Ratio Lower Upper

43 100

61 19.8 20.2 30.2#

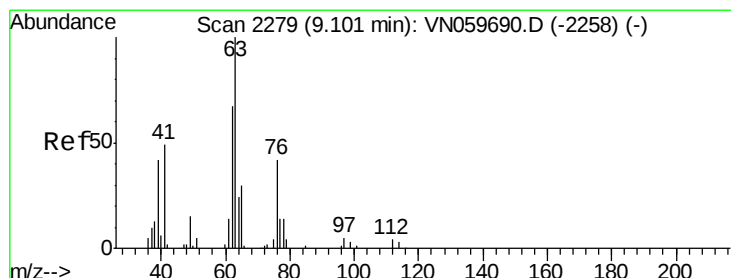
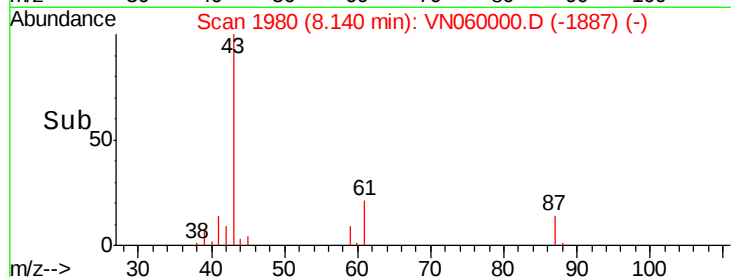
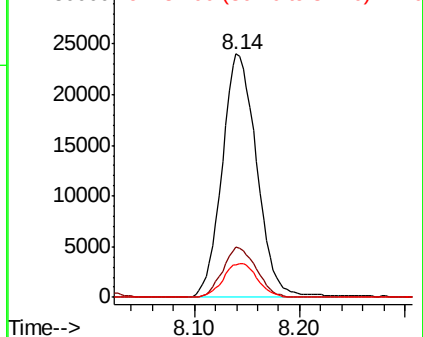
87 13.7 9.5 14.3



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: 0.514 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060000.D

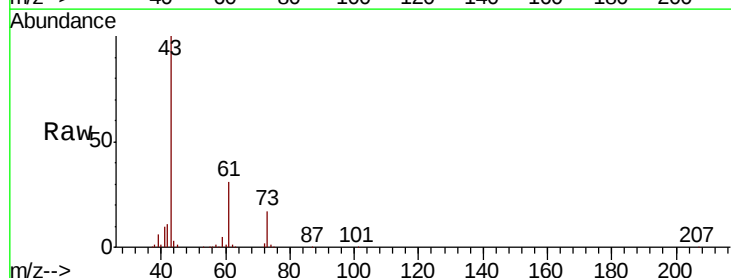
Acq: 4 Feb 2020 17:27

Tgt Ion: 63 Resp: 1054

Ion Ratio Lower Upper

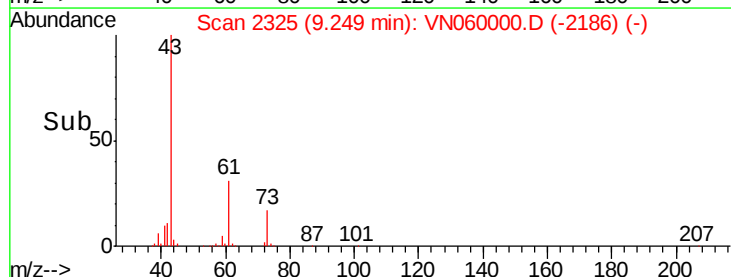
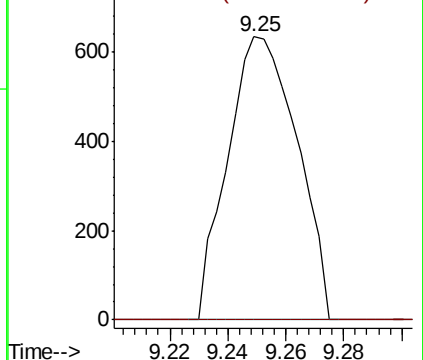
63 100

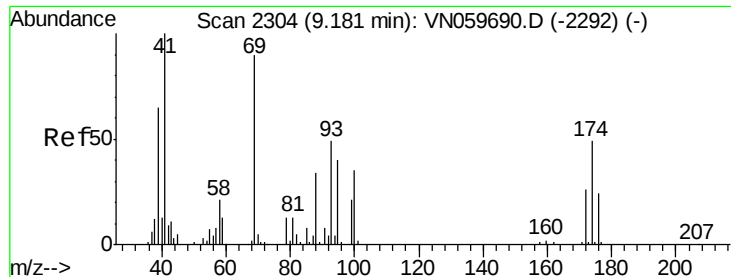
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

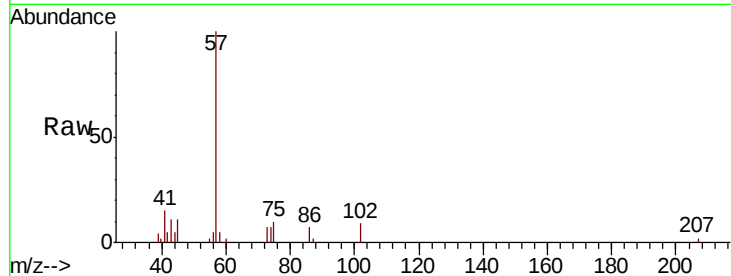




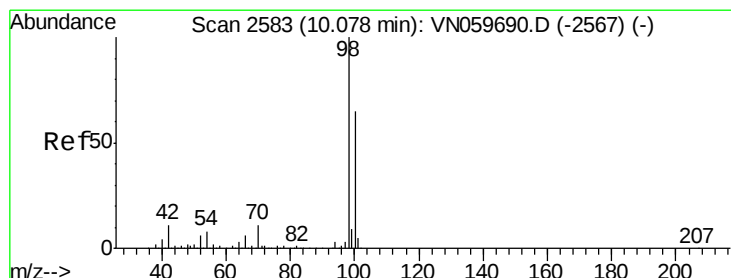
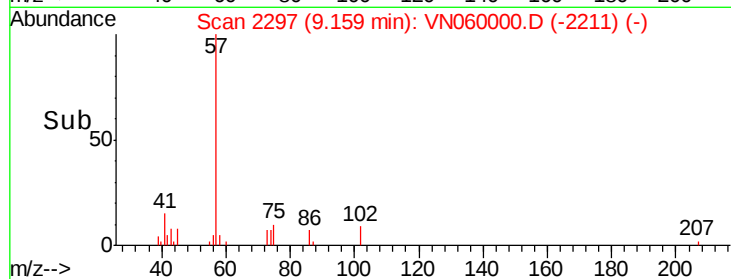
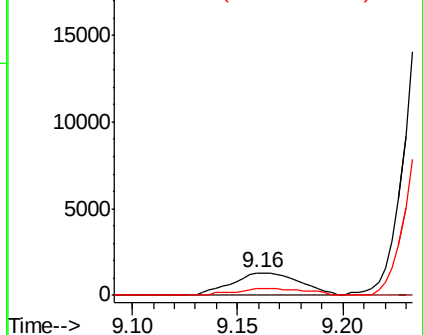
#48
Methvl methacrylate
Concen: 1.459 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060000.D
Acq: 4 Feb 2020 17:27

Instrument :
MSVOA_N
ClientSampleId :
PB126559ZHE#13

Tot Ion: 41 Resp: 2922
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

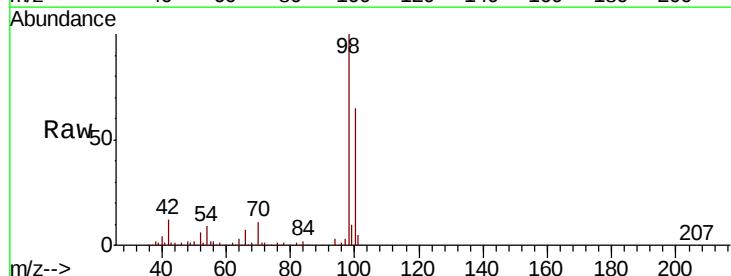


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

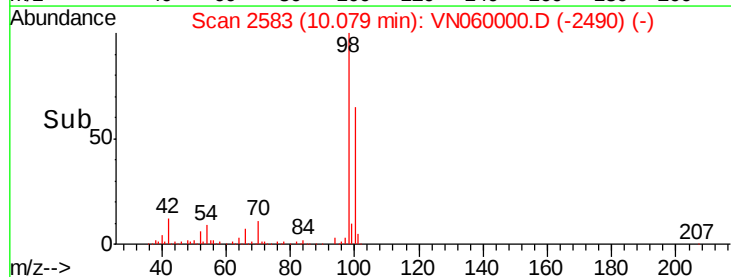
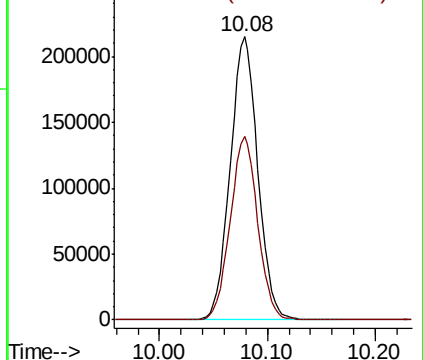


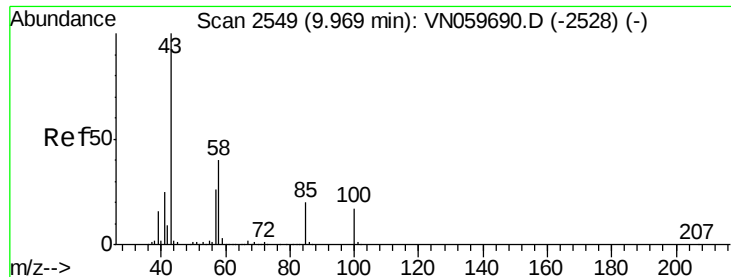
#50
Toluene-d8
Concen: 51.979 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060000.D
Acq: 4 Feb 2020 17:27

Tgt Ion: 98 Resp: 382858
Ion Ratio Lower Upper
98 100
100 64.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.321 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

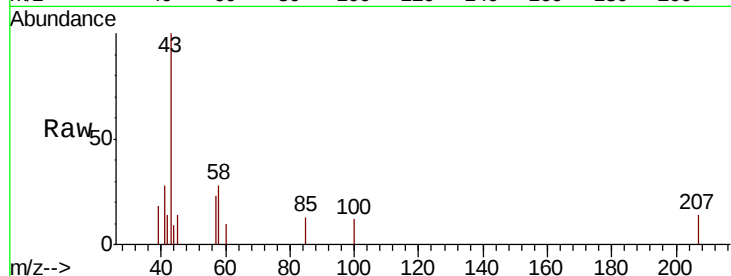
PB126559ZHE#13

Tot Ion: 43 Resp: 3419

Ion Ratio Lower Upper

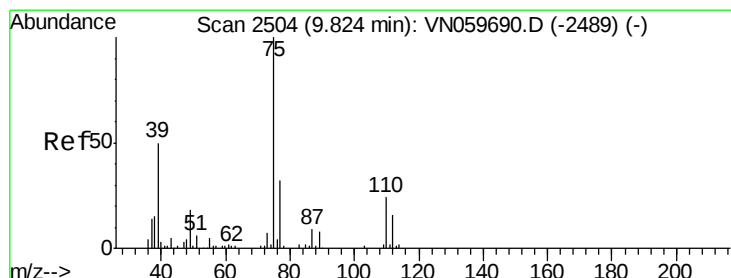
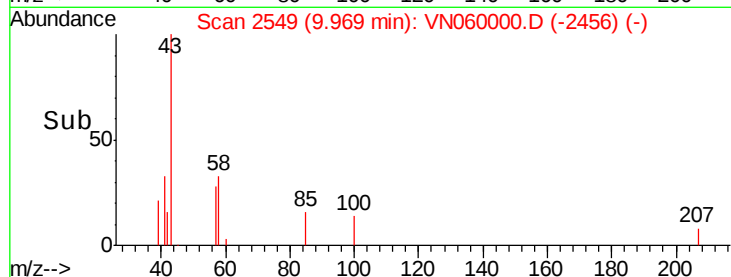
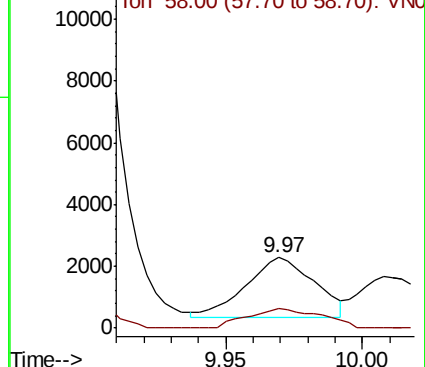
43 100

58 35.2 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.529 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

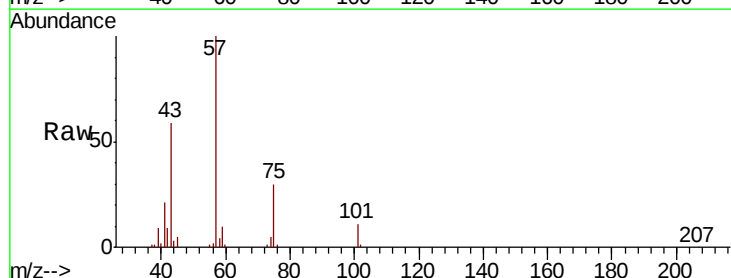
Tgt Ion: 75 Resp: 25759

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

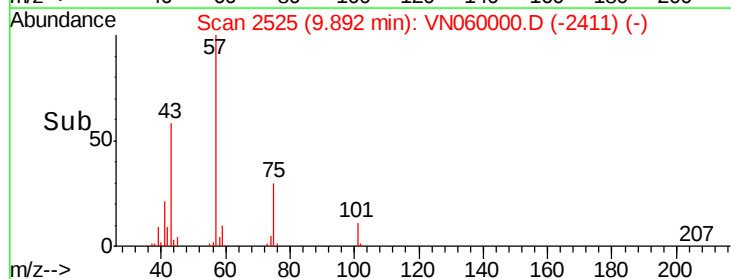
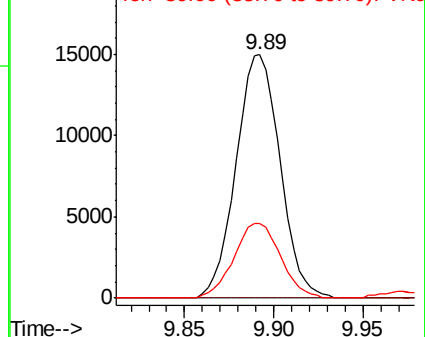
39 30.8 46.1 69.1#

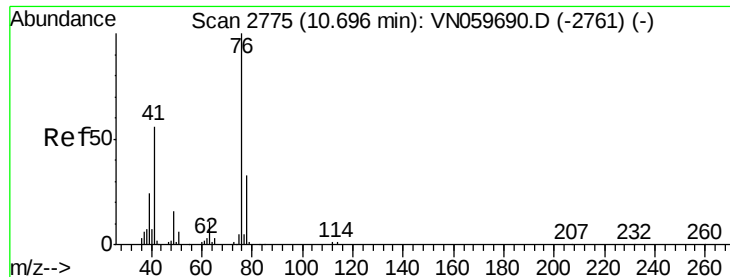


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.287 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

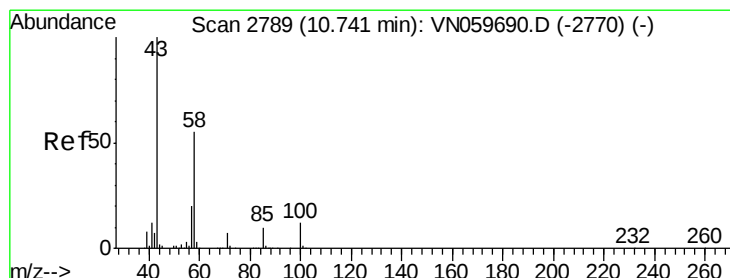
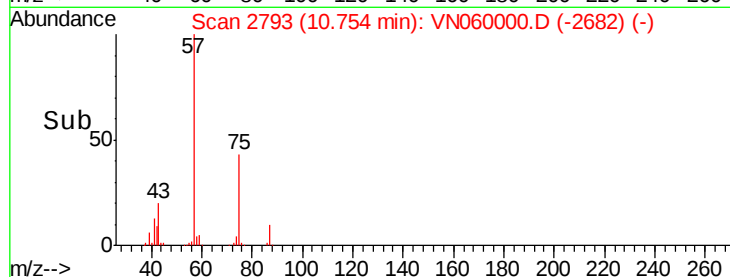
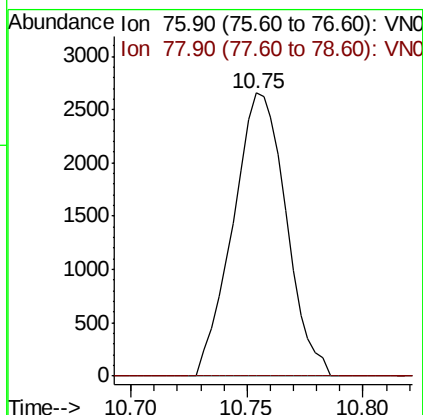
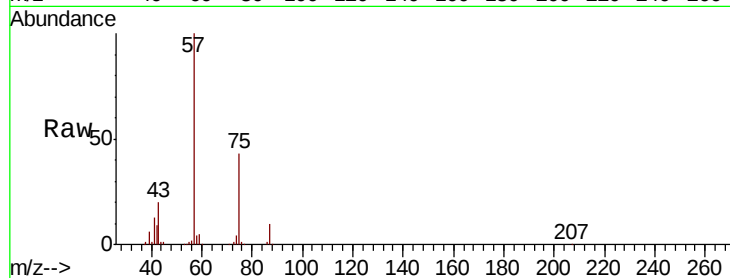
PB126559ZHE#13

Tot Ion: 76 Resp: 4231

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 30.867 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060000.D

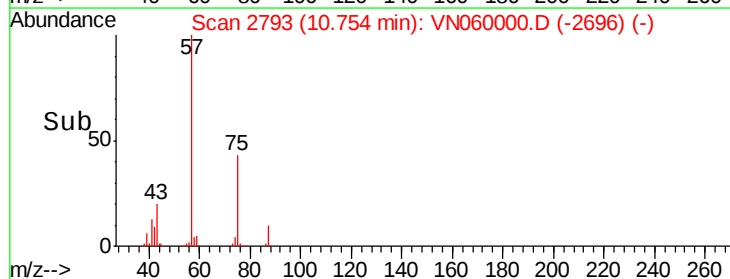
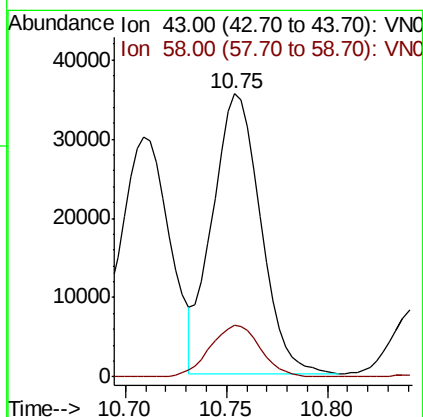
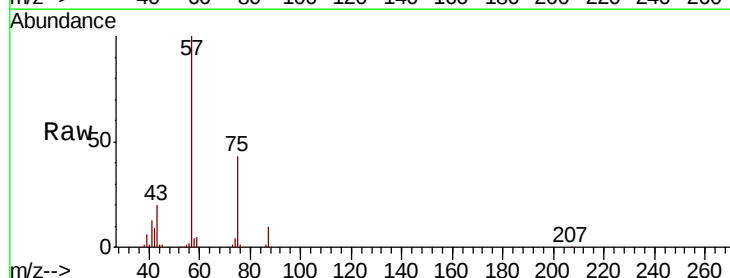
Acq: 4 Feb 2020 17:27

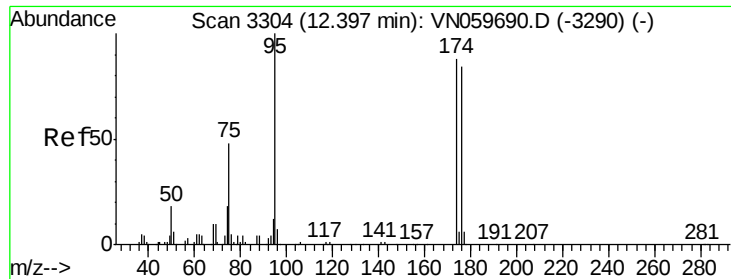
Tgt Ion: 43 Resp: 58872

Ion Ratio Lower Upper

43 100

58 19.1 25.8 77.3#

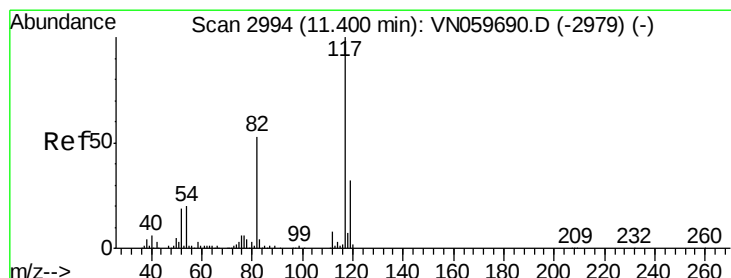
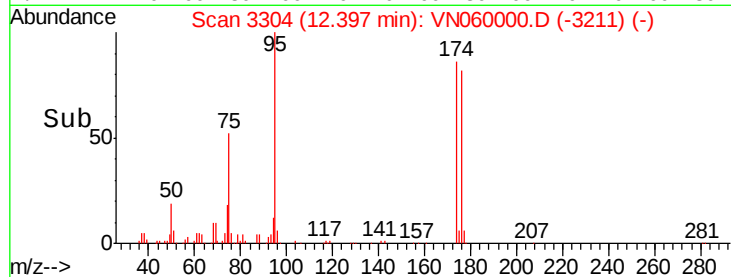
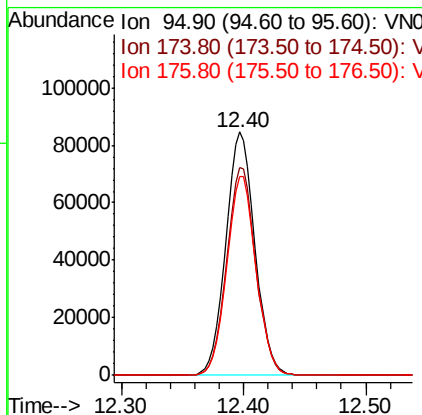
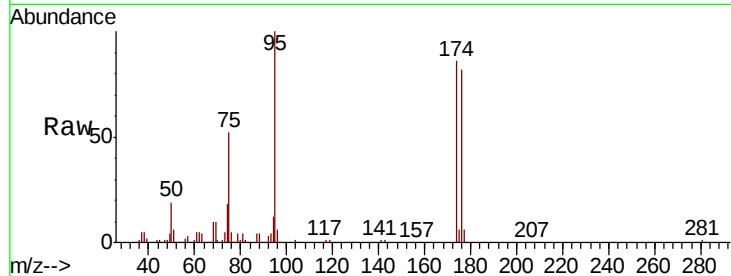




#62
4-Bromofluorobenzene
Concen: 53.145 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060000.D
Acq: 4 Feb 2020 17:27

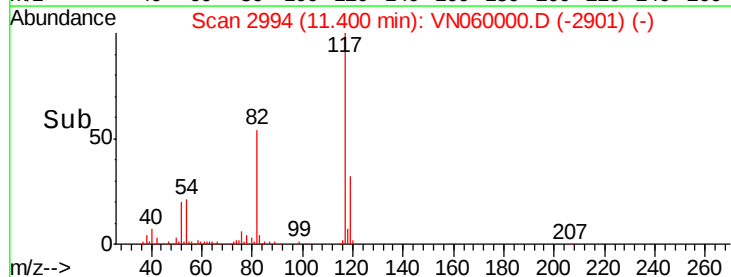
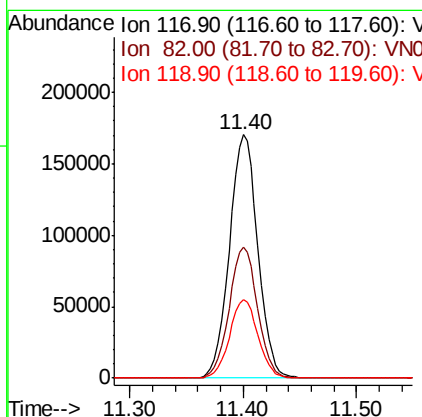
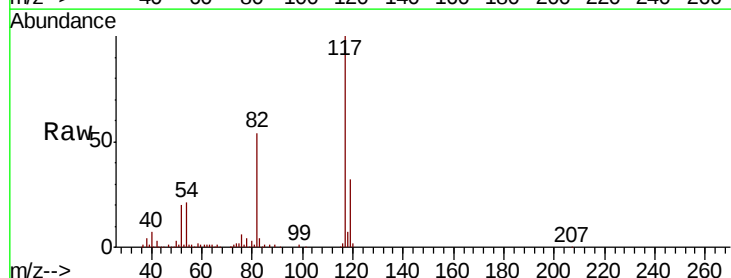
Instrument :
MSVOA_N
ClientSampleId :
PB126559ZHE#13

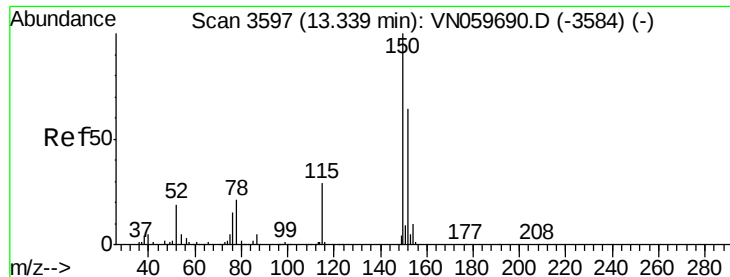
Tot Ion: 95 Resp: 141117
Ion Ratio Lower Upper
95 100
174 85.3 0.0 151.4
176 82.5 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060000.D
Acq: 4 Feb 2020 17:27

Tgt Ion: 117 Resp: 296933
Ion Ratio Lower Upper
117 100
82 53.6 45.9 68.9
119 32.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#13

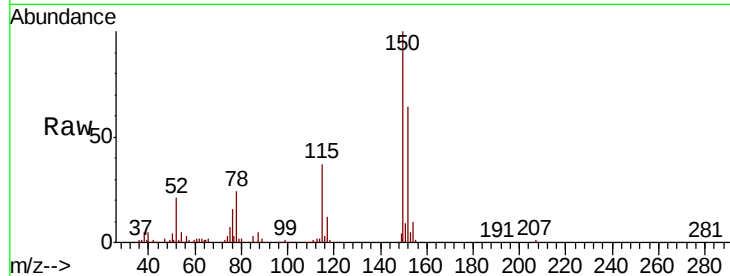
Tot Ion:152 Resp: 138195

Ion Ratio Lower Upper

152 100

115 57.7 30.3 90.9

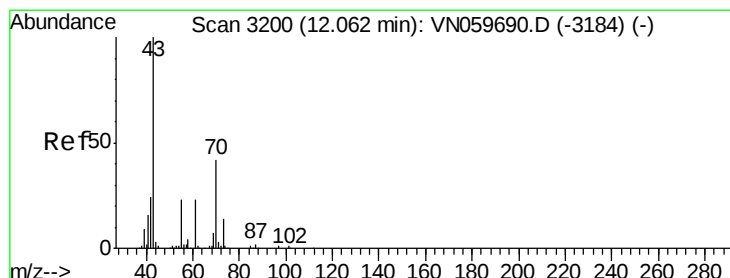
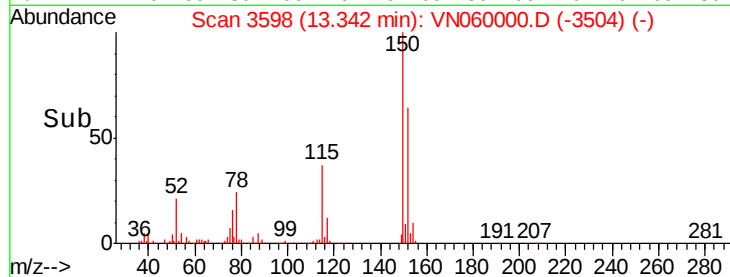
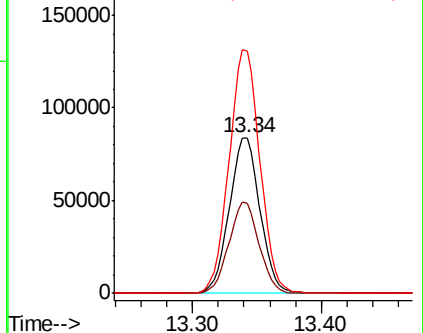
150 157.8 0.0 345.2



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: 0.870 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Tgt Ion: 43 Resp: 3422

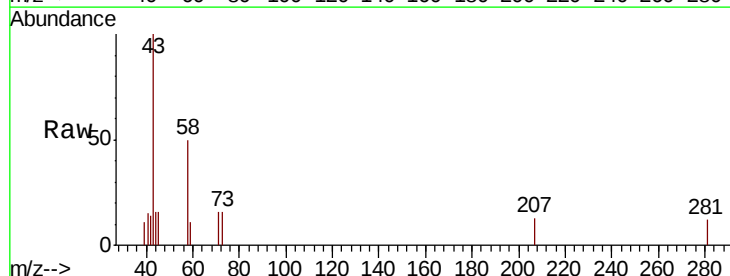
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 2.7 19.8 29.6#

61 0.0 18.3 27.5#

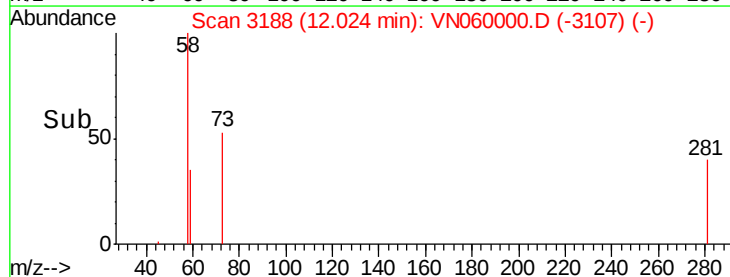
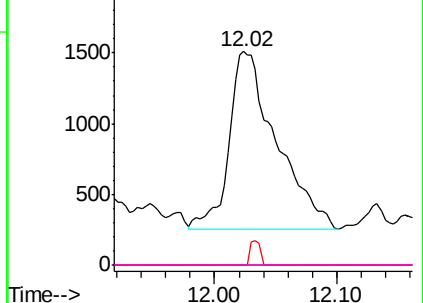


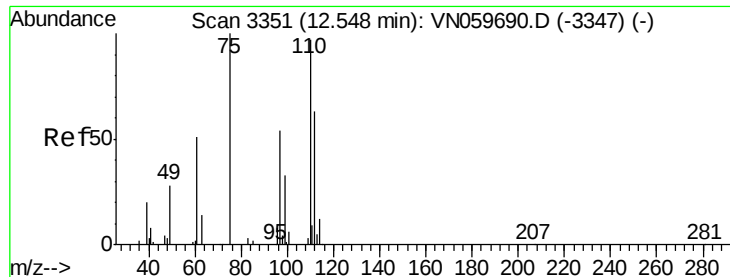
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 30.973 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

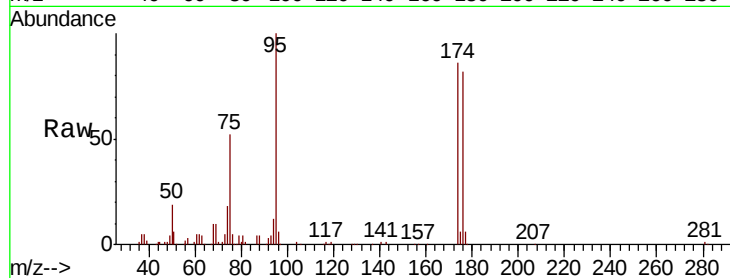
PB126559ZHE#13

Tot Ion: 75 Resp: 72033

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060000.D (-3258) (-)

Ion 77.00 (76.70 to 77.70): VN060000.D (-3258) (-)

12.40

50000

40000

30000

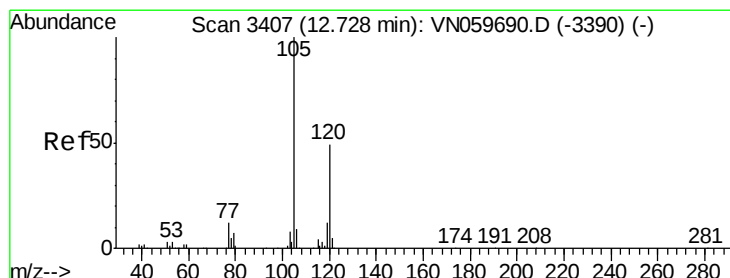
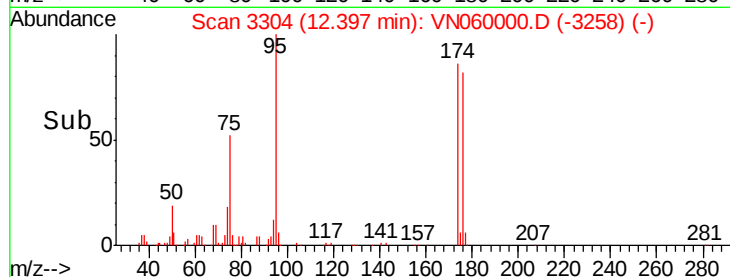
20000

10000

0

Time-->

12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.216 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060000.D

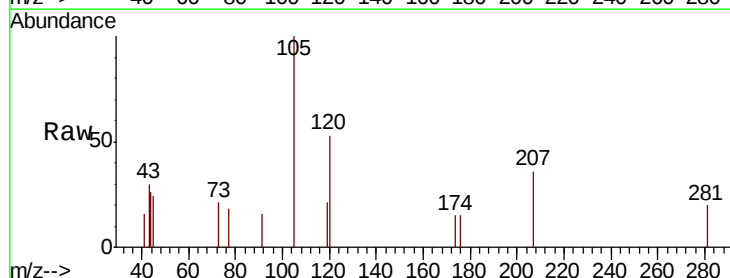
Acq: 4 Feb 2020 17:27

Tgt Ion: 105 Resp: 1837

Ion Ratio Lower Upper

105 100

120 46.2 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060000.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060000.D (-3314) (-)

12.73

1200

1000

800

600

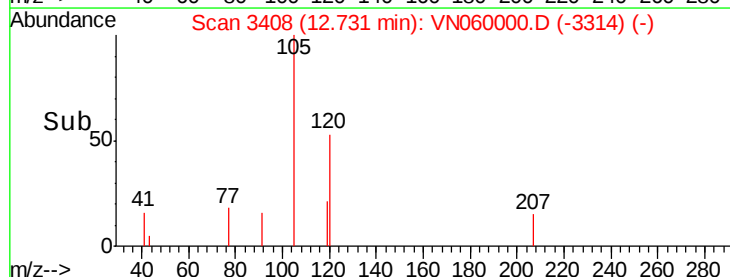
400

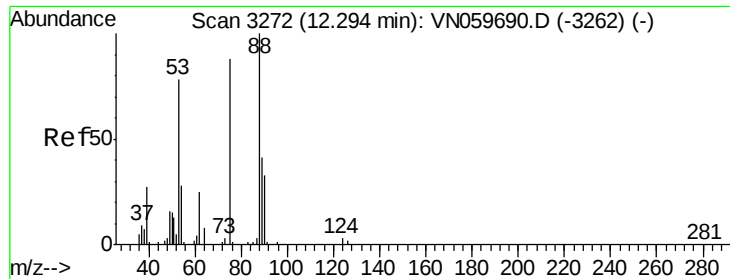
200

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 66.514 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

Instrument :

MSVOA_N

ClientSampleId :

PB126559ZHE#13

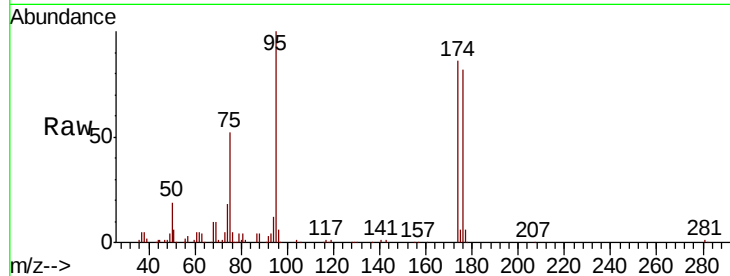
Tot Ion: 75 Resp: 72033

Ion Ratio Lower Upper

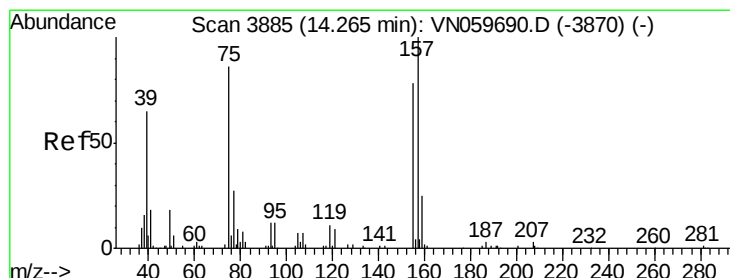
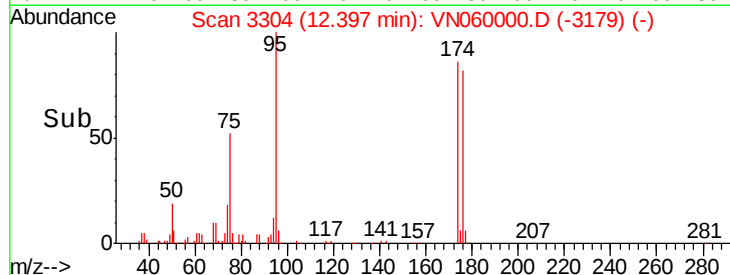
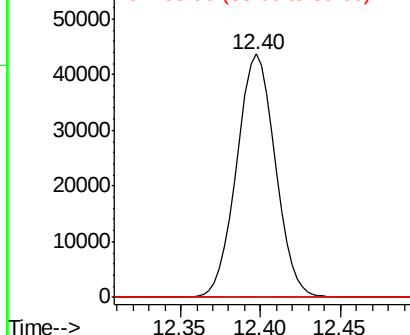
75 100

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: 14.35 min Scan# 3913

Delta R.T. 0.09 min

Lab File: VN060000.D

Acq: 4 Feb 2020 17:27

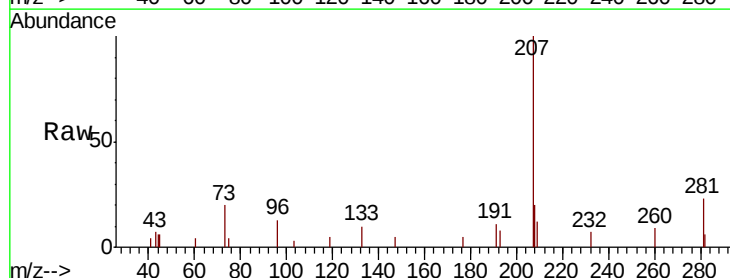
Tgt Ion: 75 Resp: 266

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

