

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030420\
 Data File : VN060345.D
 Acq On : 4 Mar 2020 13:56
 Operator : JC/MD
 Sample : PB127249ZHE#14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127249ZHE#14

Quant Time: Mar 05 05:09:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	325723	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	300990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137295	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	129397	49.86	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.72%	
35) Dibromofluoromethane	7.57	113	87901	58.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	116.28%	
50) Toluene-d8	10.08	98	405375	52.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.96%	
62) 4-Bromofluorobenzene	12.40	95	146932	50.65	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.30%	

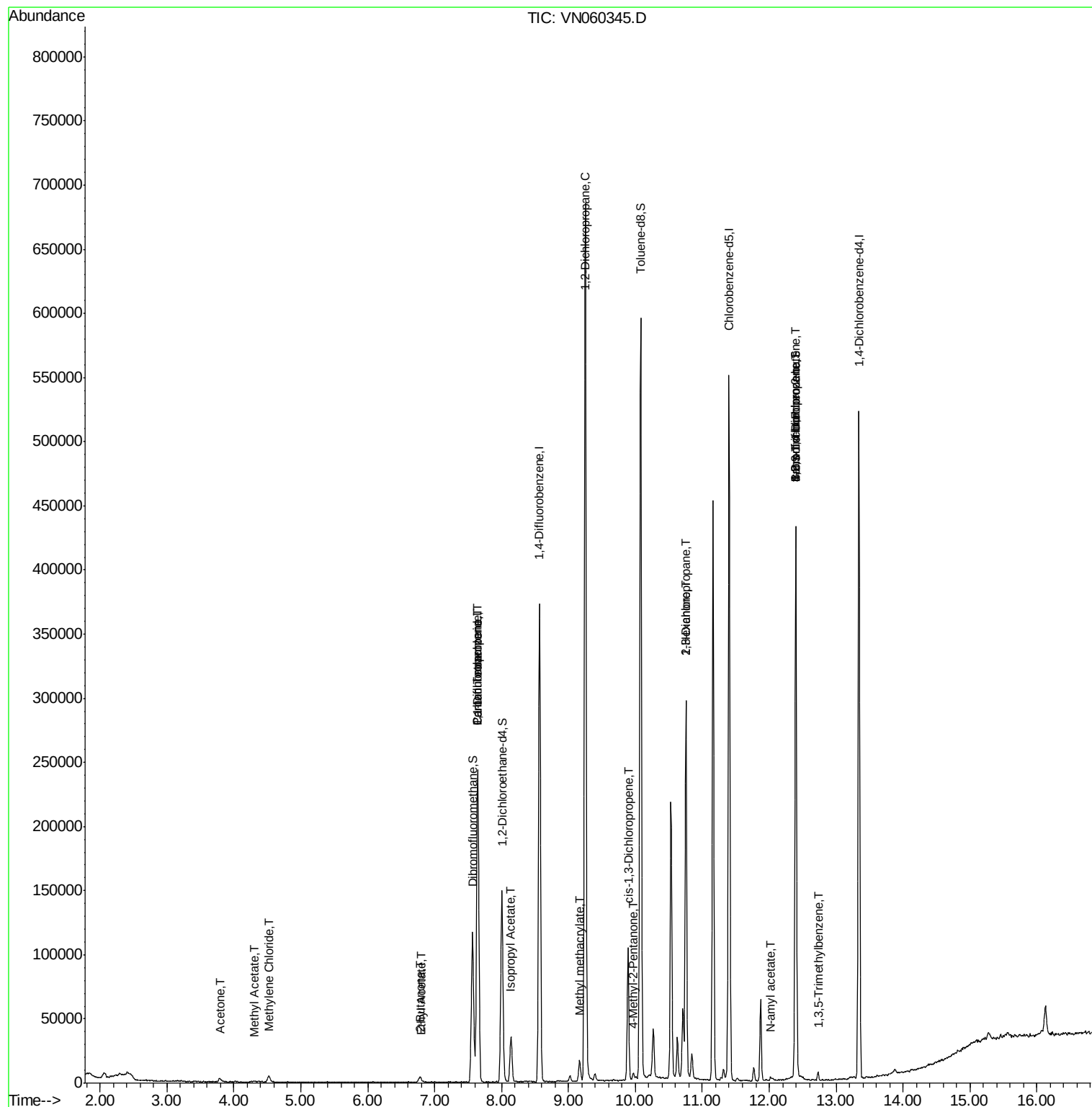
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.46	96	31	Below Cal	#	1
16) Acetone	3.79	43	5263	6.280	ug/l	100
18) Methyl Acetate	4.29	43	659	0.236	ug/l #	52
20) Methylene Chloride	4.52	84	3721	1.617	ug/l	98
25) 2-Butanone	6.80	43	594	0.439	ug/l #	49
31) Cyclohexane	7.64	56	4220	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16115	5.191	ug/l #	49
37) Ethyl Acetate	6.81	43	836	0.284	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19414	6.423	ug/l #	16
43) Isopropyl Acetate	8.14	43	42524	8.264	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	734	0.311	ug/l #	44
48) Methyl methacrylate	9.16	41	2456	1.047	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3669	1.258	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	18127	4.580	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2907	0.781	ug/l #	42
59) 2-Hexanone	10.75	43	44208	20.637	ug/l #	52
71) Bromoform	12.40	173	728	0.449	ug/l #	1
74) N-amyl acetate	12.02	43	2250	0.506	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	75258	24.984	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3804	0.444	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	75258	68.967	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	138	Below Cal	#	1
88) 1,4-Dichlorobenzene	13.36	146	138	Below Cal	#	1
95) Naphthalene	15.13	128	462	Below Cal	#	69

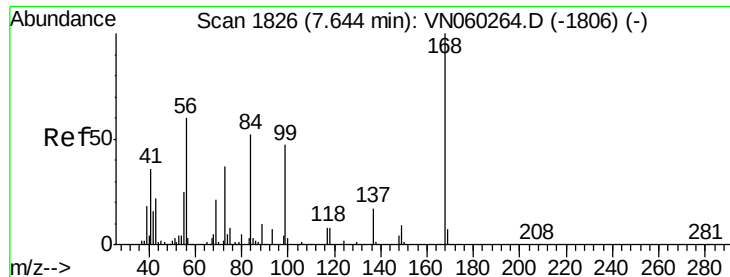
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

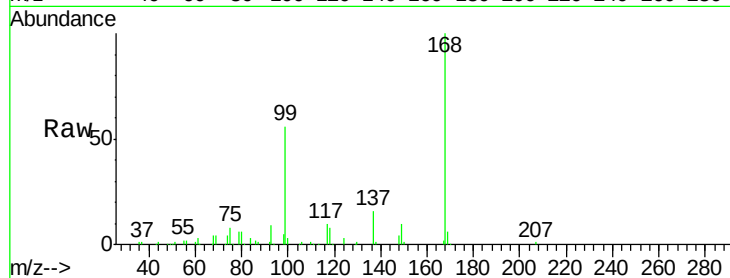
PB127249ZHE#14

Tgt Ion:168 Resp: 202273

Ion Ratio Lower Upper

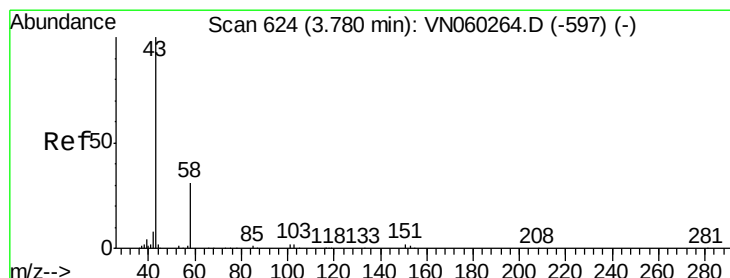
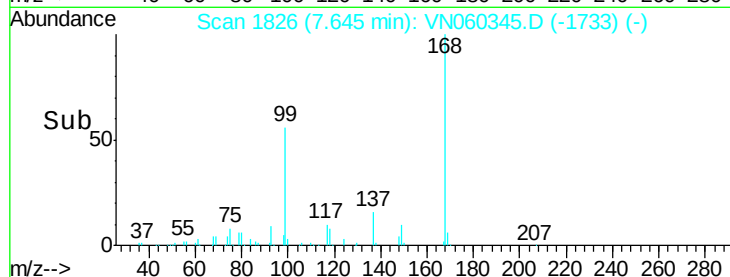
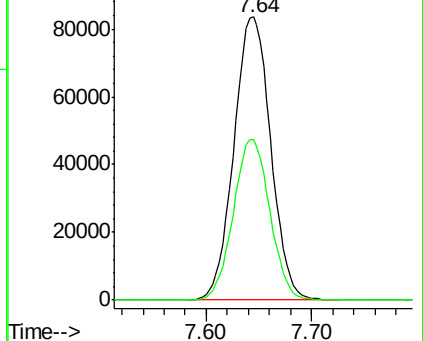
168 100

99 56.5 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 6.280 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060345.D

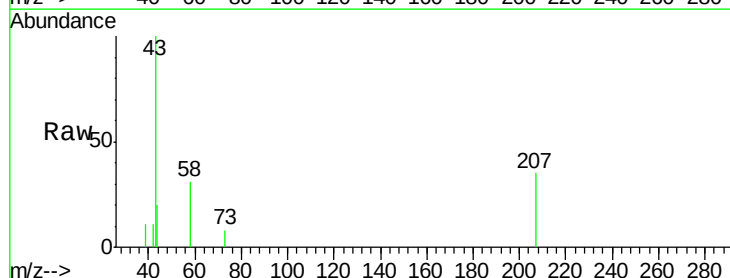
Acq: 4 Mar 2020 13:56

Tgt Ion: 43 Resp: 5263

Ion Ratio Lower Upper

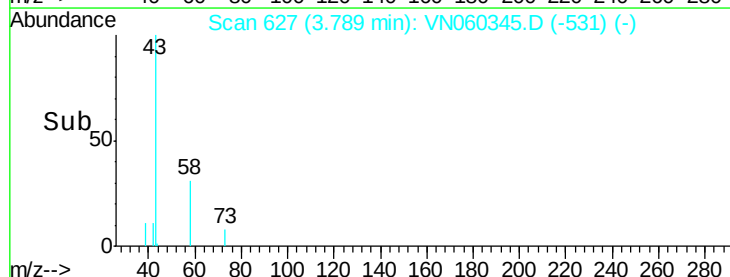
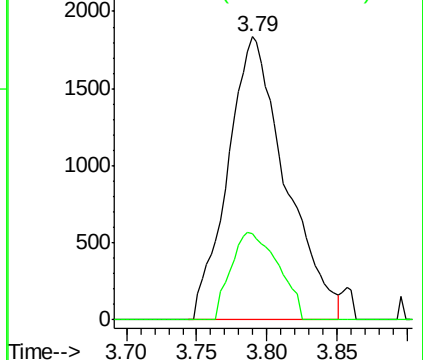
43 100

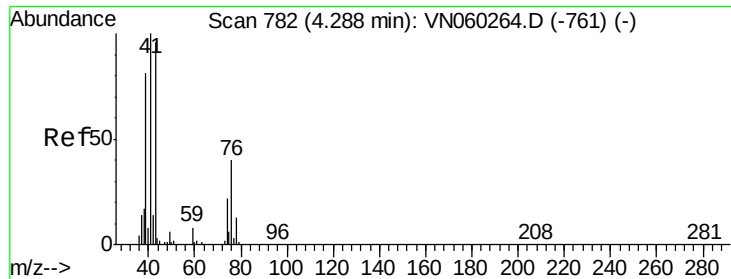
58 30.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

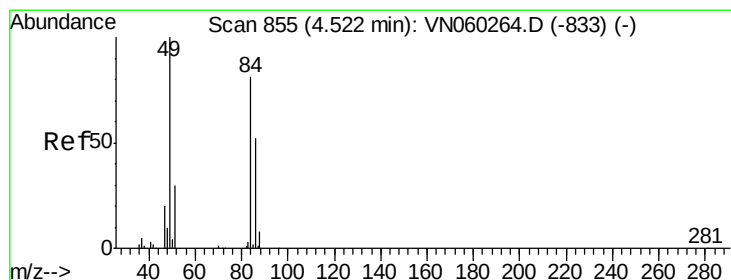
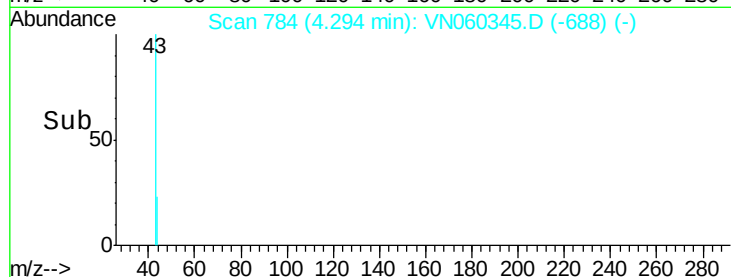
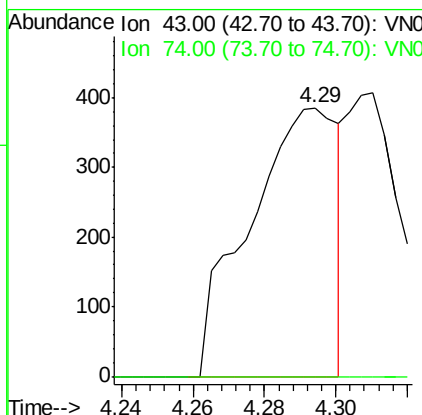
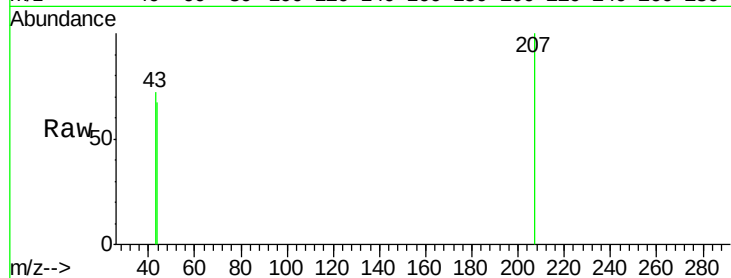




#18
Methyl Acetate
Concen: 0.236 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

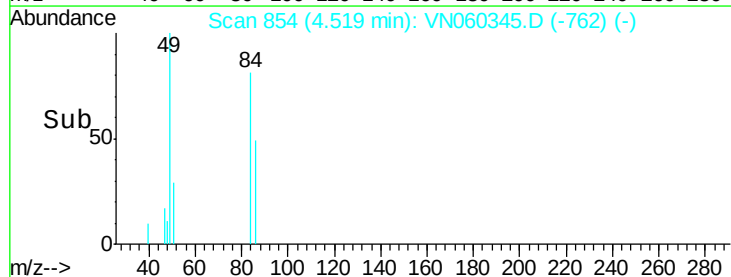
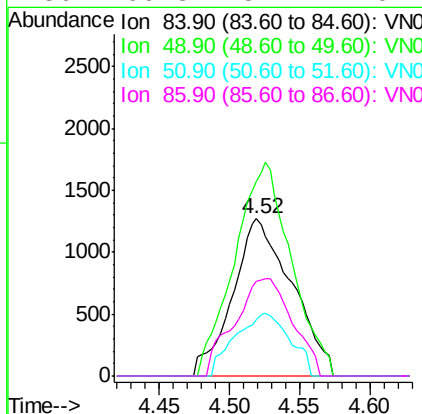
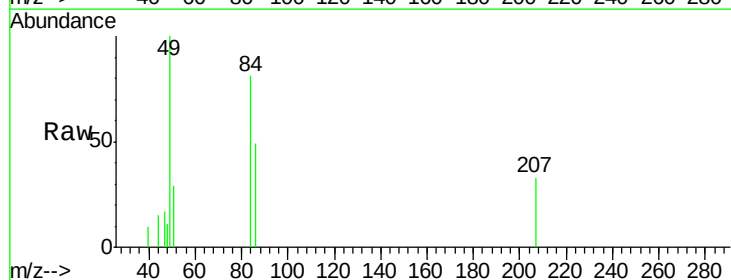
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#14

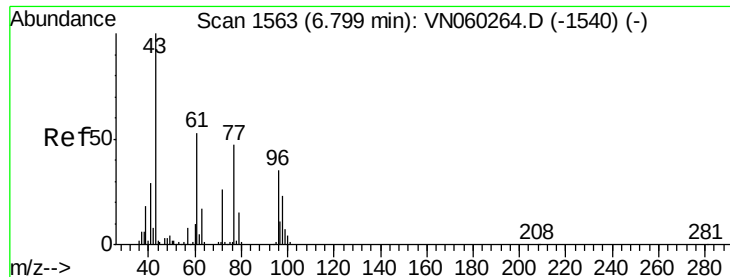
Tgt Ion: 43 Resp: 659
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.617 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Tgt Ion: 84 Resp: 3721
Ion Ratio Lower Upper
84 100
49 124.1 99.3 148.9
51 36.0 30.1 45.1
86 60.3 51.1 76.7

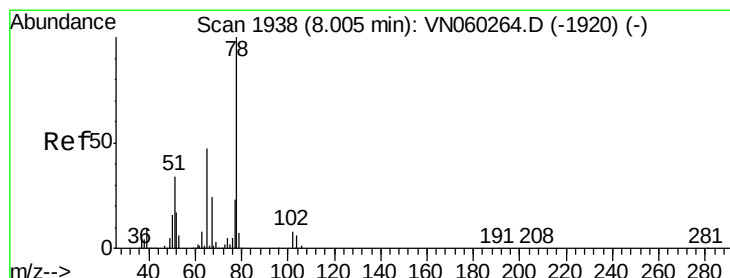
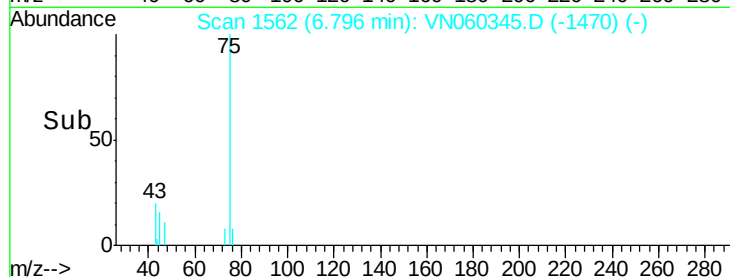
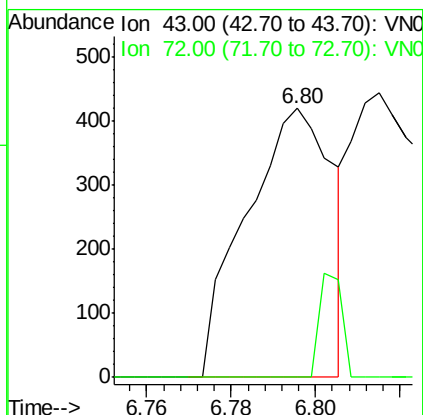
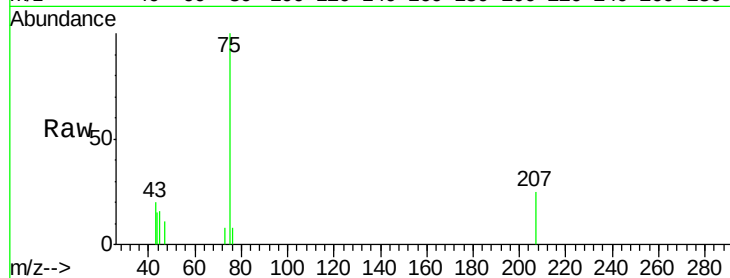




#25
2-Butanone
Concen: 0.439 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

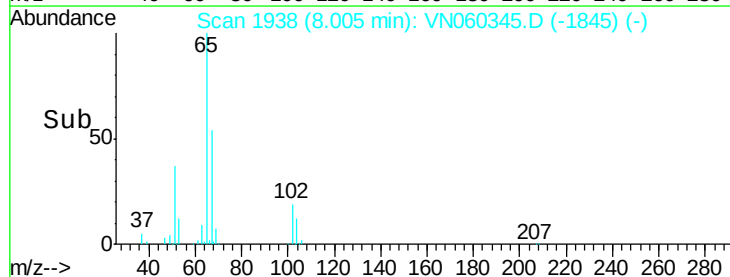
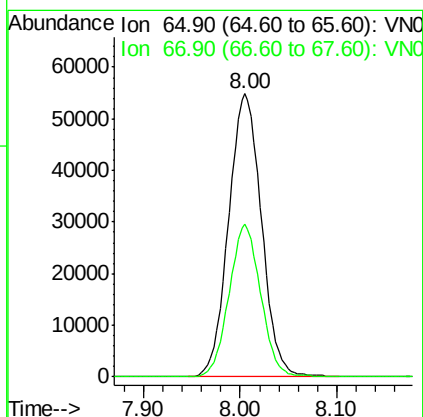
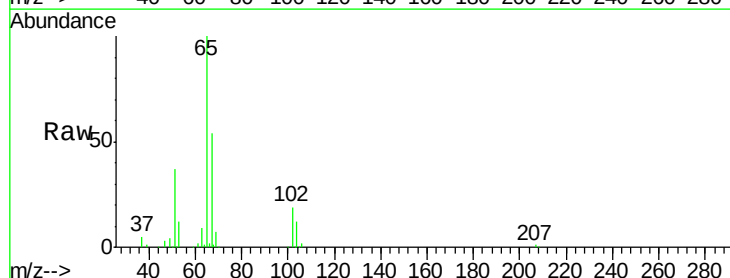
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#14

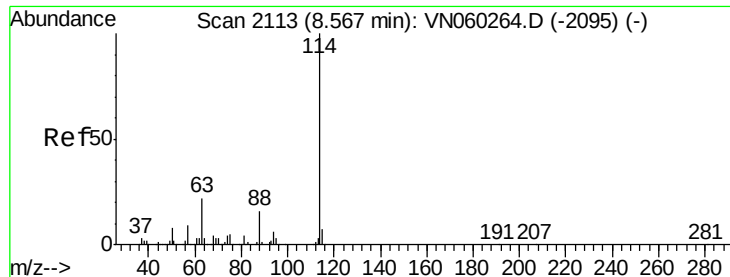
Tgt Ion: 43 Resp: 594
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 49.860 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Tgt Ion: 65 Resp: 129397
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.8

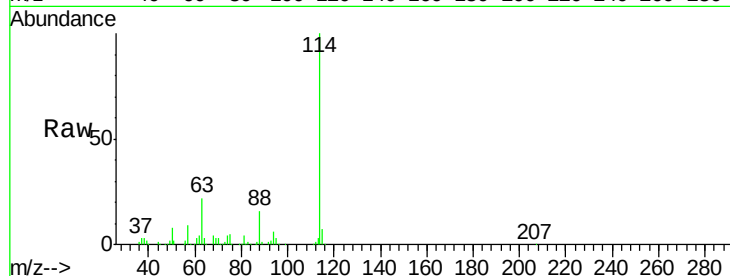




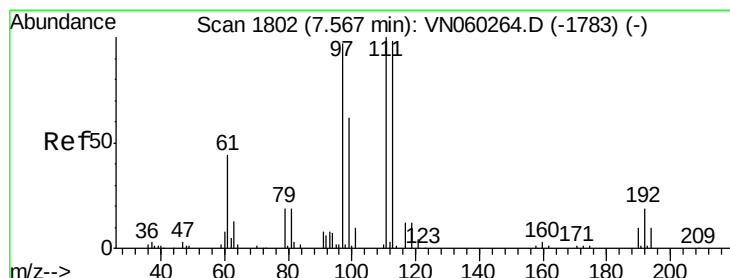
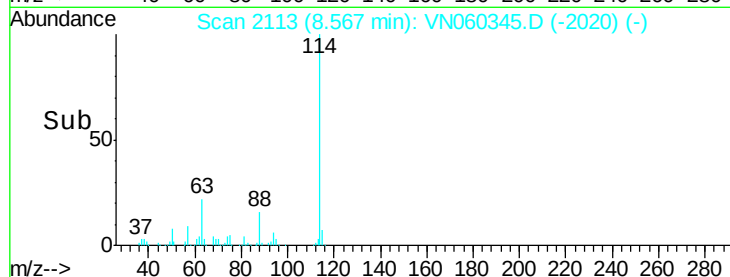
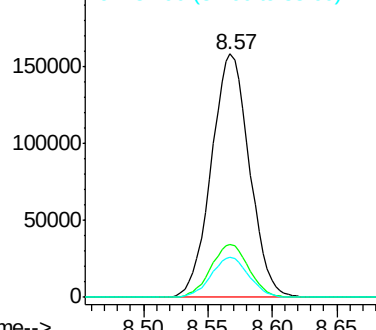
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#14

Tgt Ion:114 Resp: 325723
Ion Ratio Lower Upper
114 100
63 22.0 0.0 43.2
88 16.3 0.0 31.6

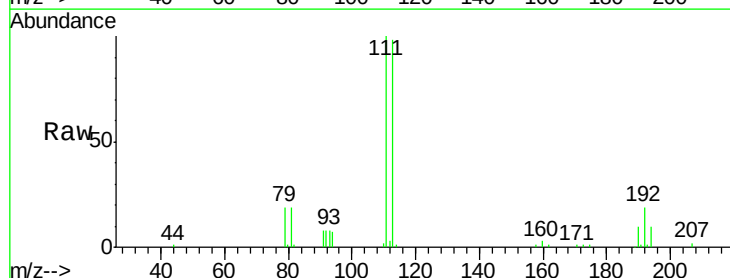


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

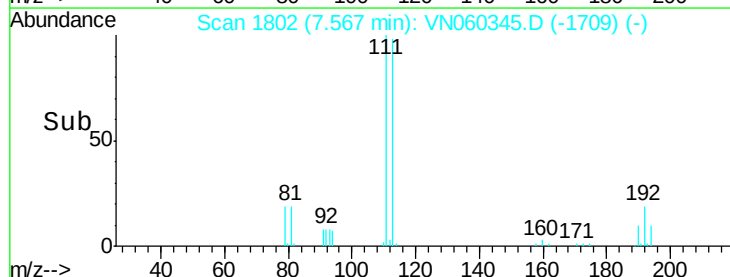
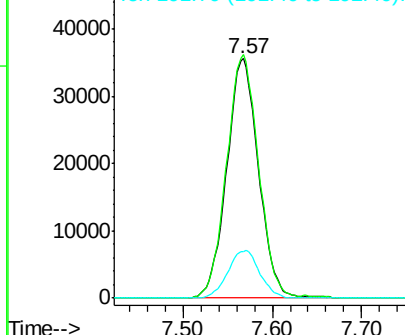


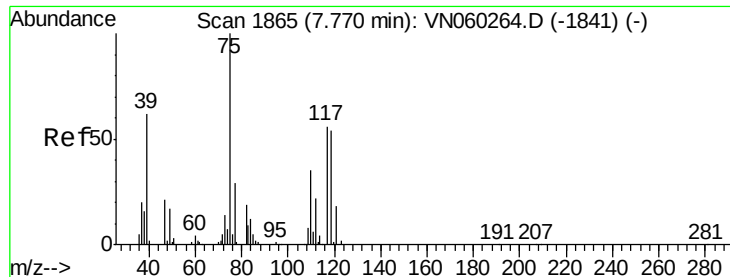
#35
Dibromofluoromethane
Concen: 58.139 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Tgt Ion:113 Resp: 87901
Ion Ratio Lower Upper
113 100
111 102.2 82.4 123.6
192 20.0 16.2 24.2



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: 5.191 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#14

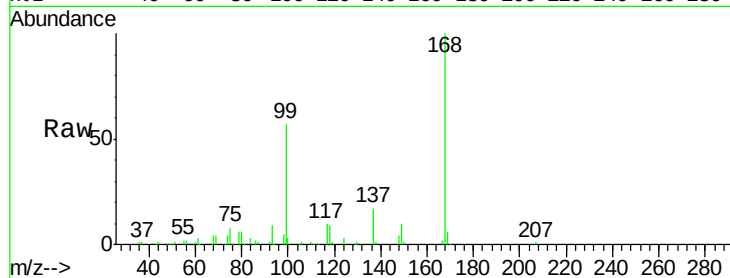
Tgt Ion: 75 Resp: 16115

Ion Ratio Lower Upper

75 100

110 7.5 17.3 52.0#

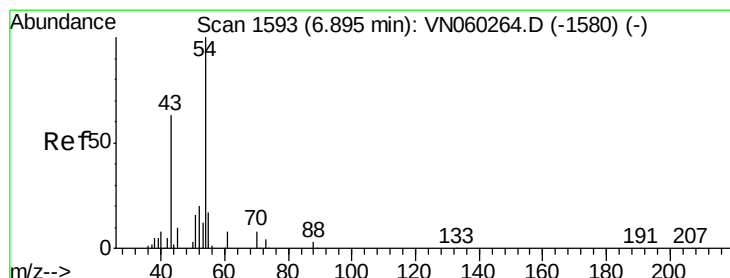
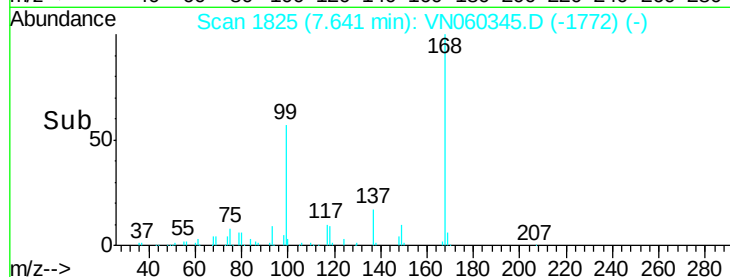
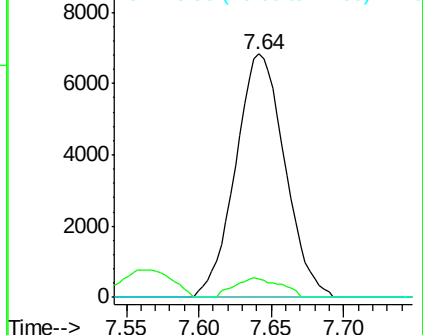
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.284 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

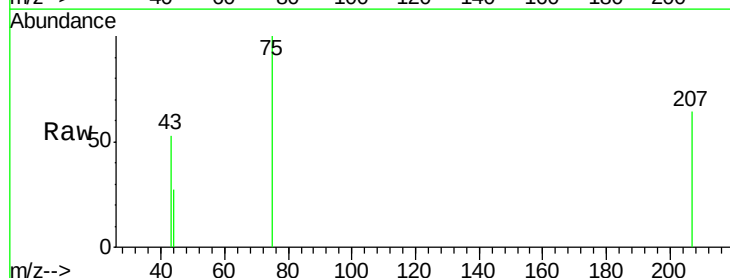
Tgt Ion: 43 Resp: 836

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

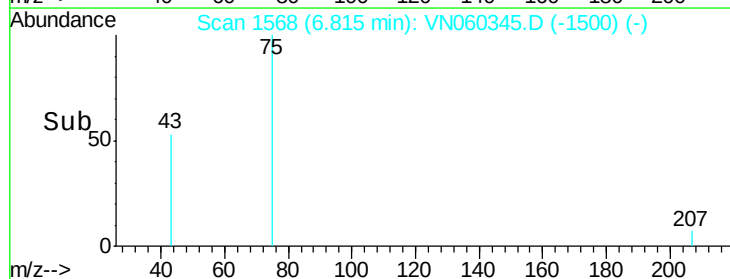
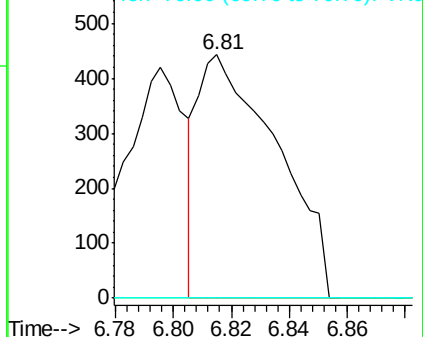
70 0.0 8.4 12.6#

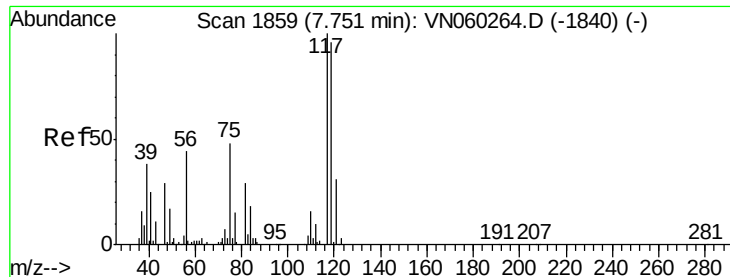


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.423 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060345.D

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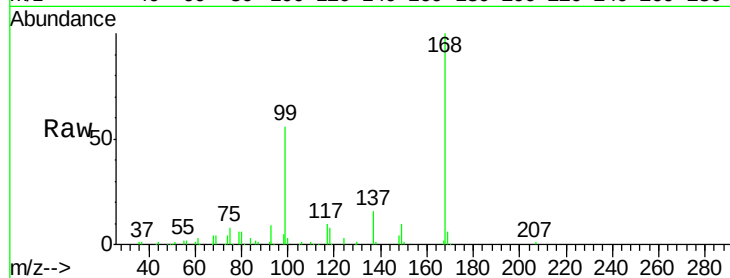
Tgt Ion:117 Resp: 19414

Ion Ratio Lower Upper

117 100

119 4.8 76.7 115.1#

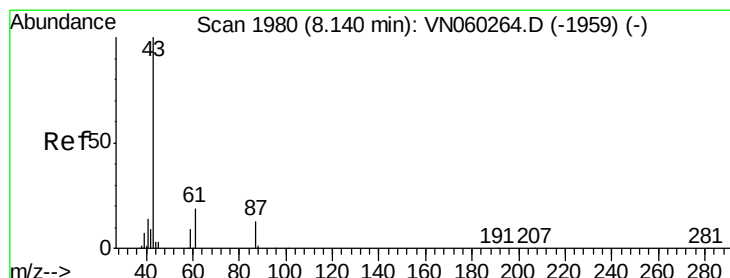
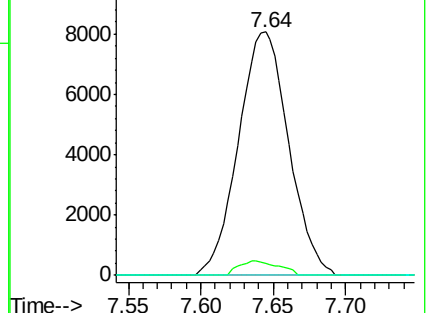
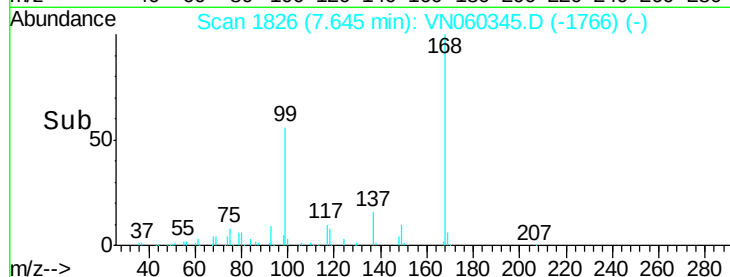
121 0.0 24.5 36.7#



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: 8.264 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

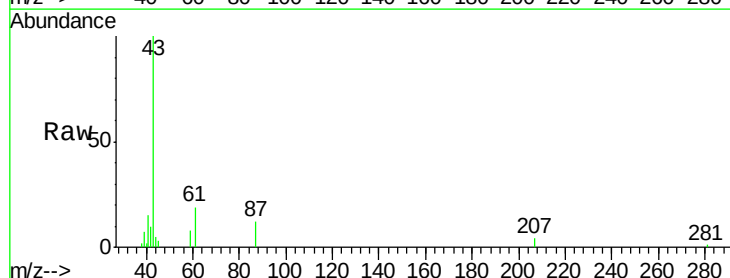
Tgt Ion: 43 Resp: 42524

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

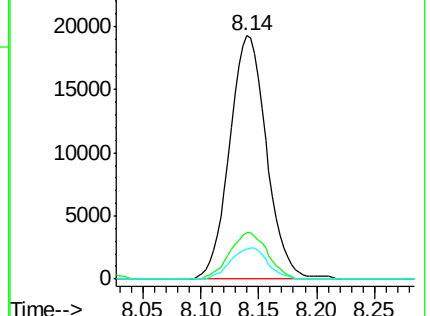
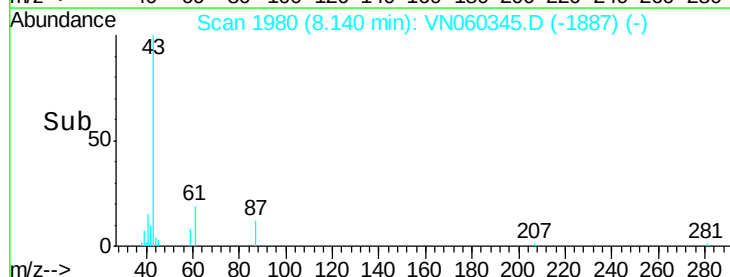
87 12.7 10.6 16.0

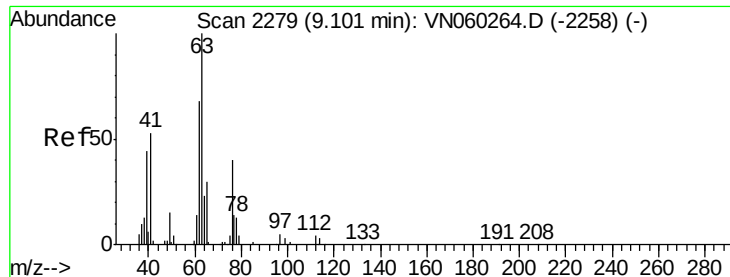


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

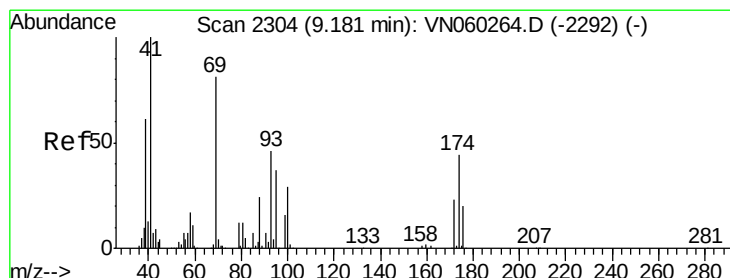
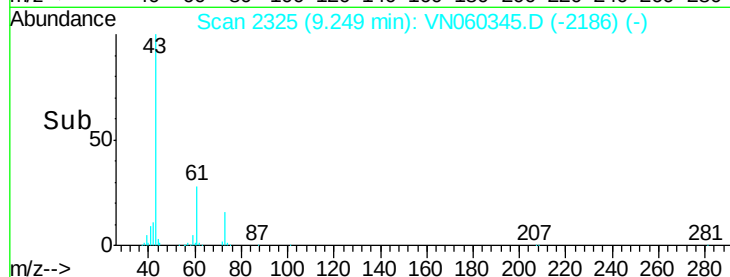
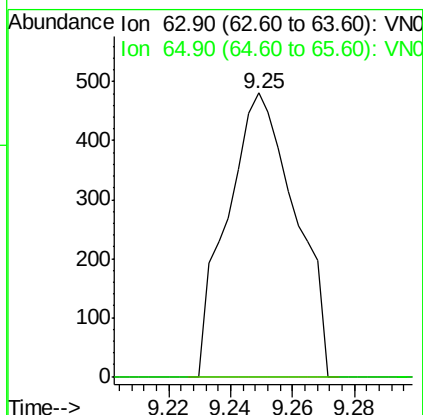
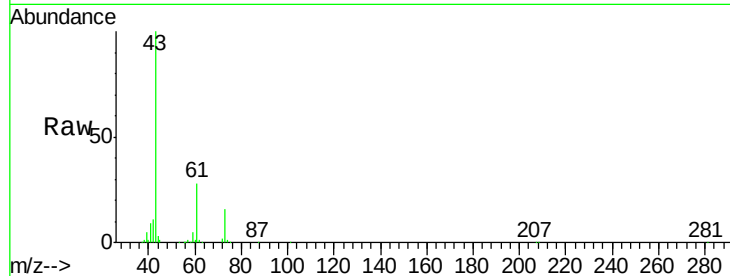




#45
 1,2-Dichloropropane
 Concen: 0.311 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060345.D
 Acq: 4 Mar 2020 13:56

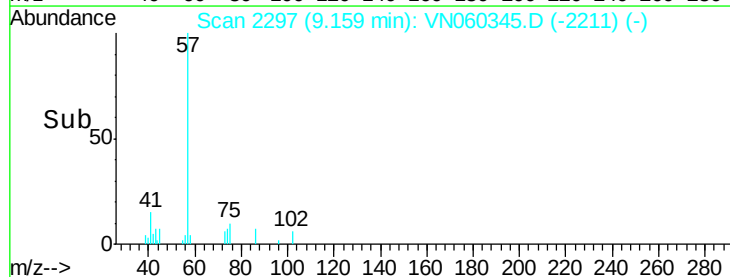
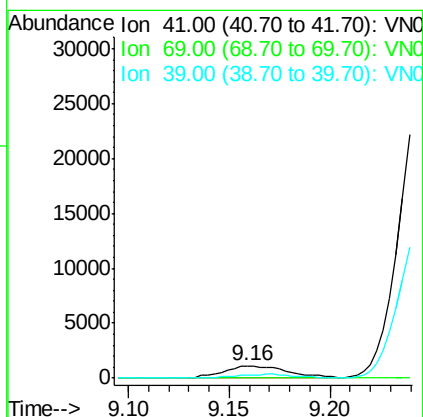
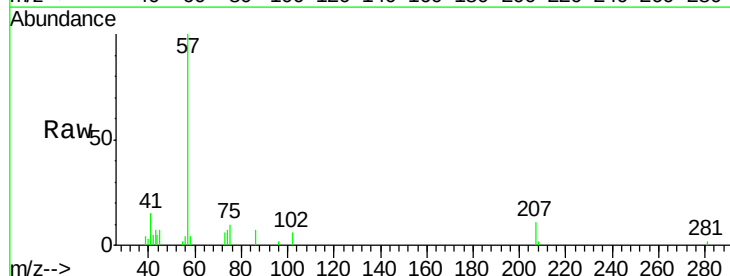
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127249ZHE#14

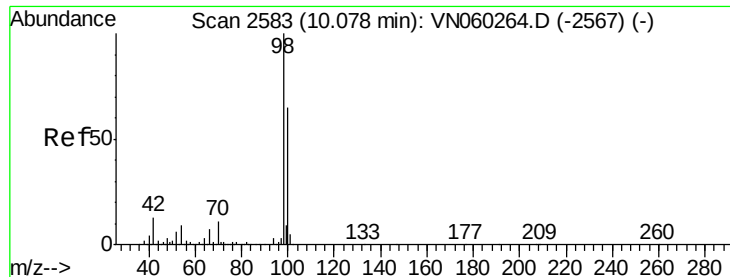
Tgt Ion: 63 Resp: 734
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.047 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060345.D
 Acq: 4 Mar 2020 13:56

Tgt Ion: 41 Resp: 2456
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.977 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

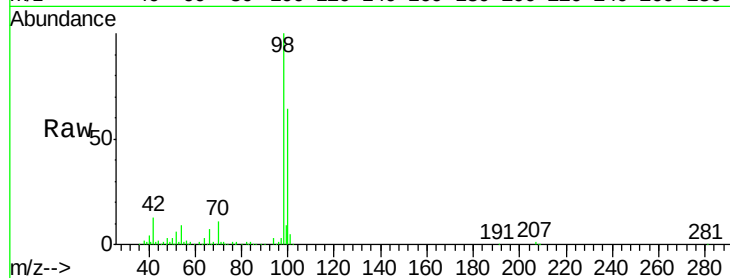
PB127249ZHE#14

Tgt Ion: 98 Resp: 405375

Ion Ratio Lower Upper

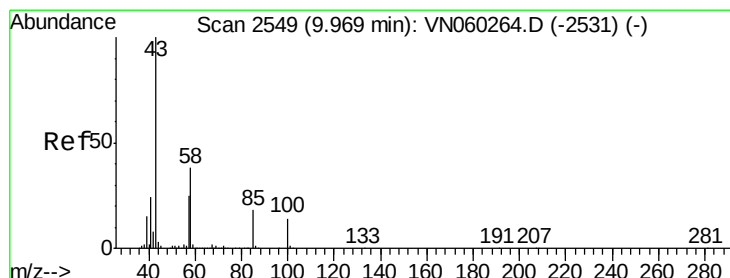
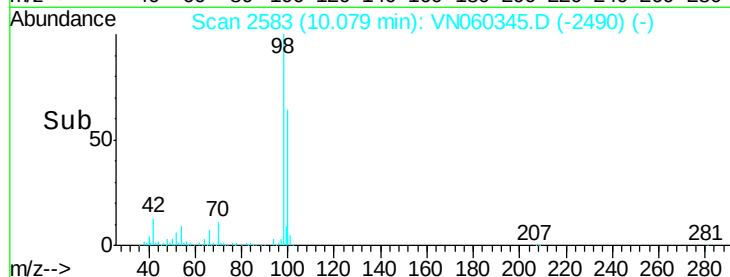
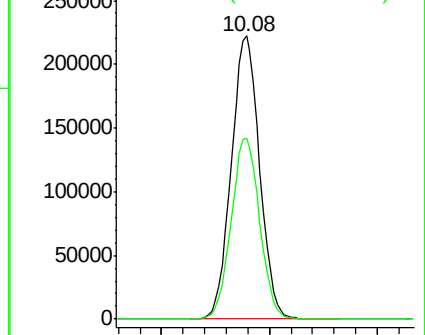
98 100

100 64.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.258 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060345.D

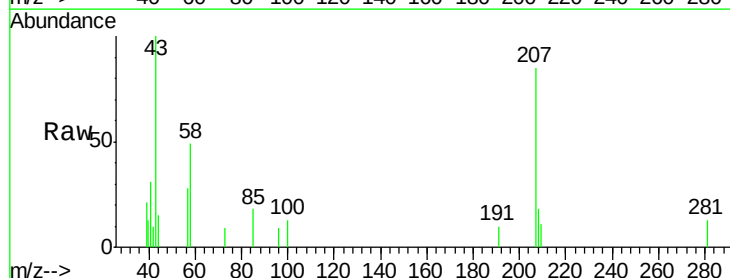
Acq: 4 Mar 2020 13:56

Tgt Ion: 43 Resp: 3669

Ion Ratio Lower Upper

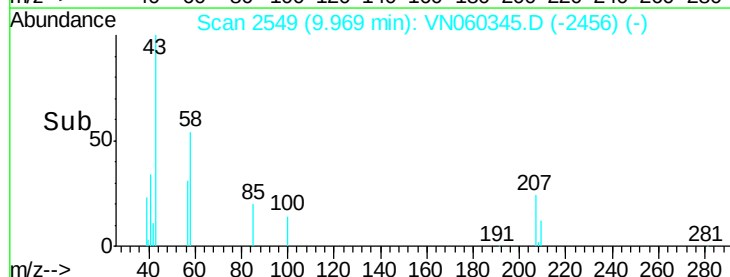
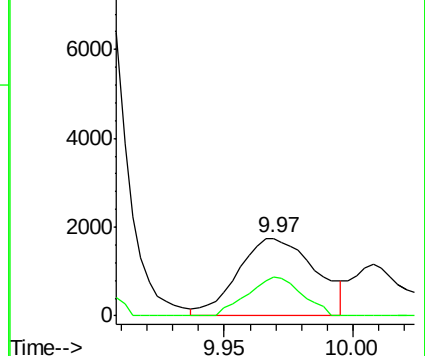
43 100

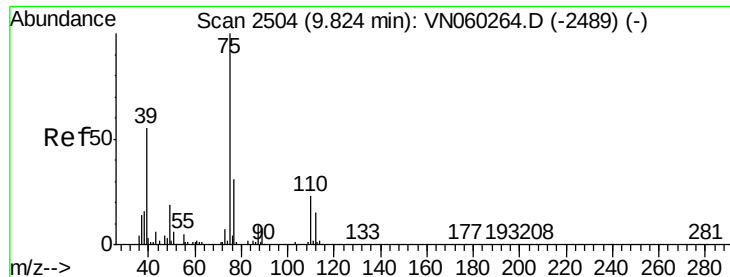
58 34.9 30.9 46.3



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: 4.580 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#14

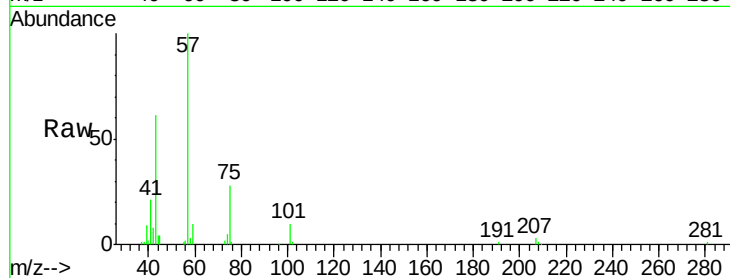
Tgt Ion: 75 Resp: 18127

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

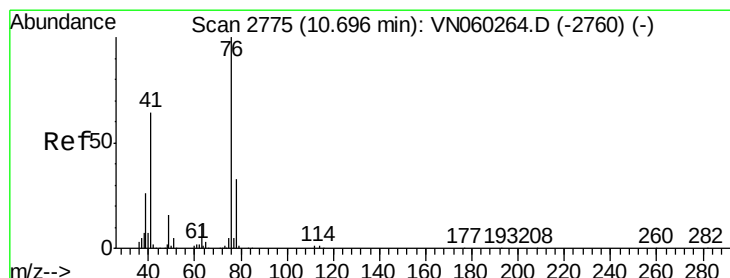
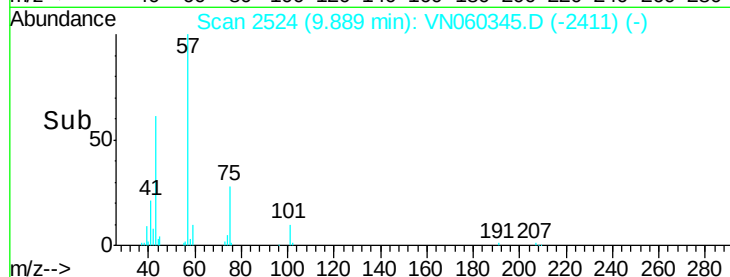
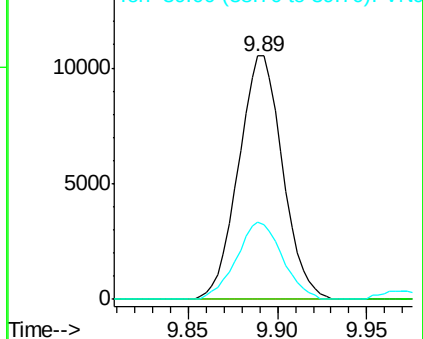
39 31.9 43.8 65.8#



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-Dichloropropene

Concen: 0.781 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060345.D

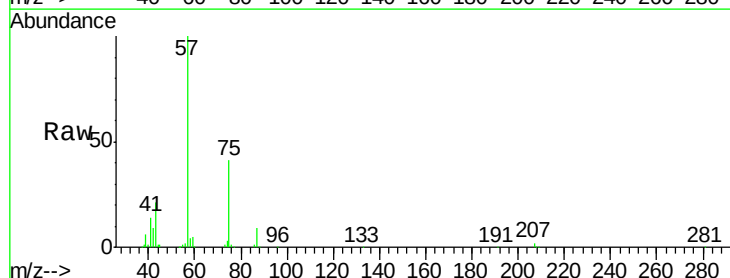
Acq: 4 Mar 2020 13:56

Tgt Ion: 76 Resp: 2907

Ion Ratio Lower Upper

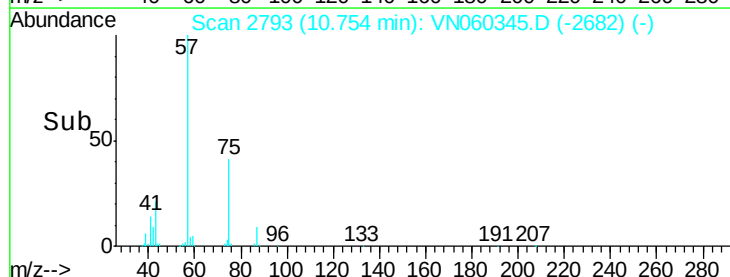
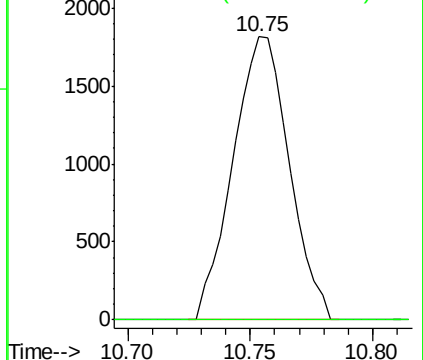
76 100

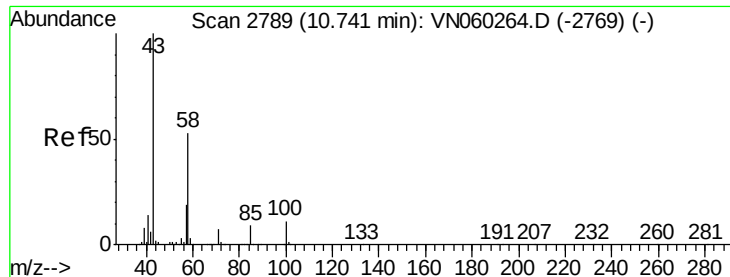
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

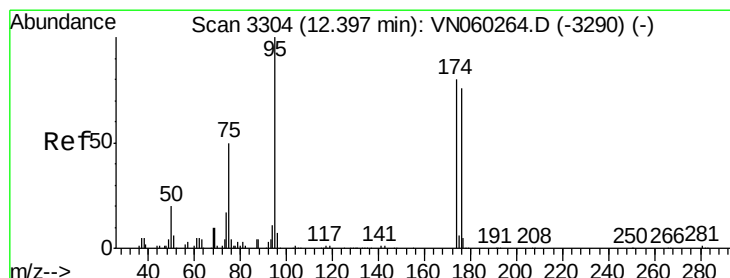
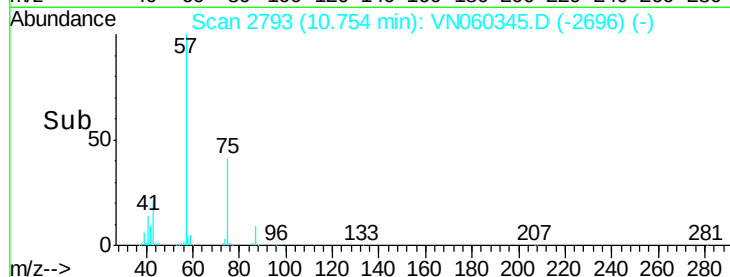
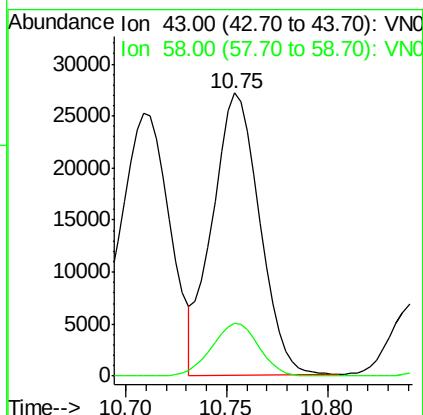
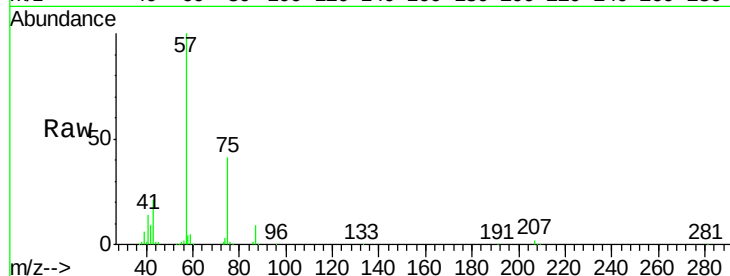




#59
2-Hexanone
Concen: 20.637 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

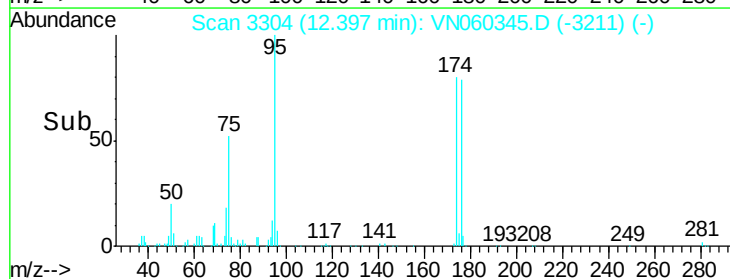
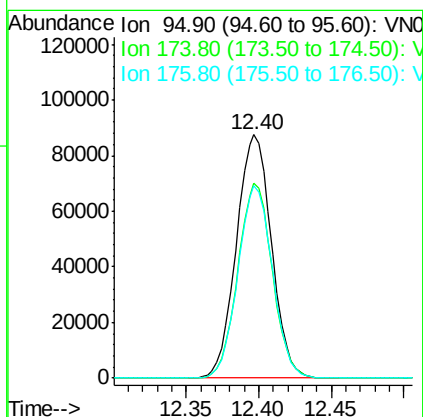
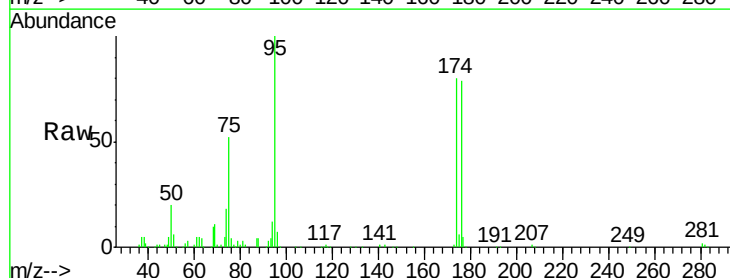
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#14

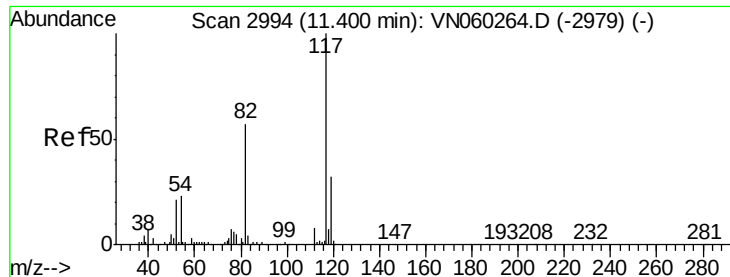
Tgt Ion: 43 Resp: 44208
Ion Ratio Lower Upper
43 100
58 18.7 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 50.655 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Tgt Ion: 95 Resp: 146932
Ion Ratio Lower Upper
95 100
174 78.6 0.0 159.2
176 77.8 0.0 153.8

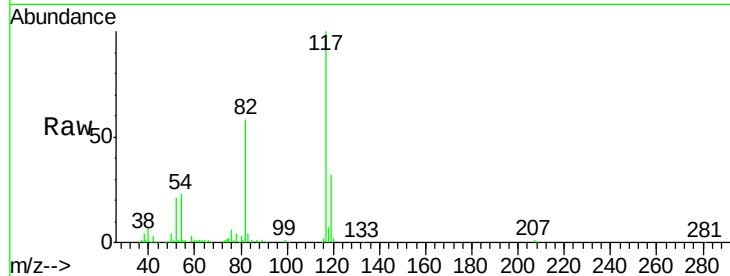




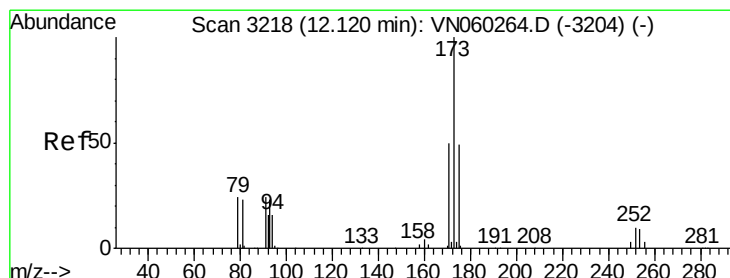
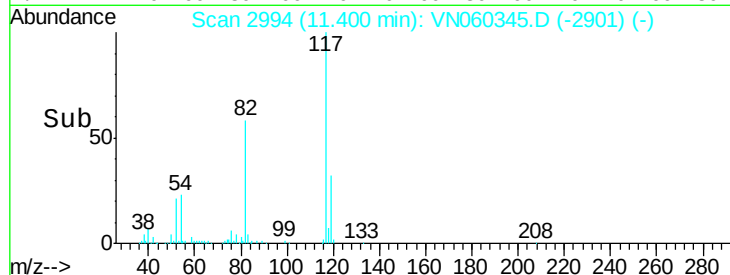
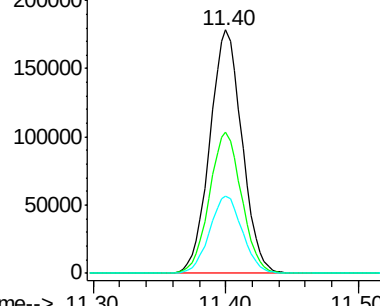
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#14

Tgt Ion:117 Resp: 300990
Ion Ratio Lower Upper
117 100
82 57.8 45.8 68.6
119 31.9 25.8 38.8

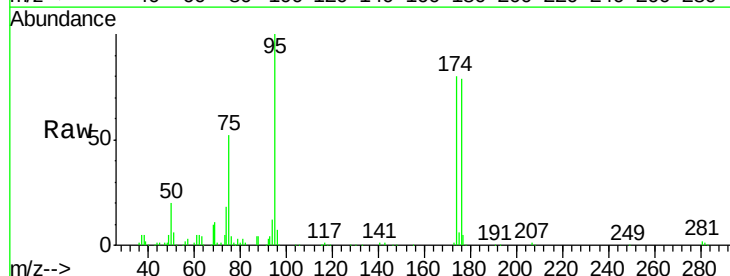


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

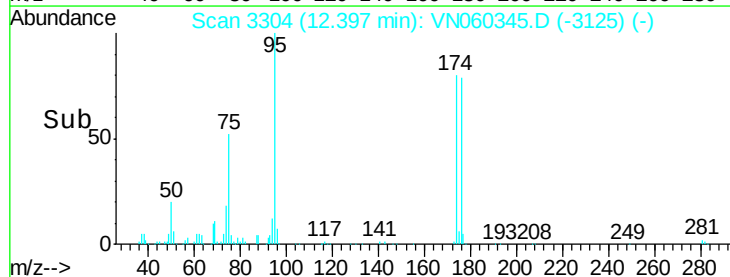
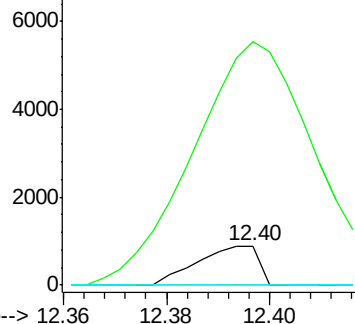


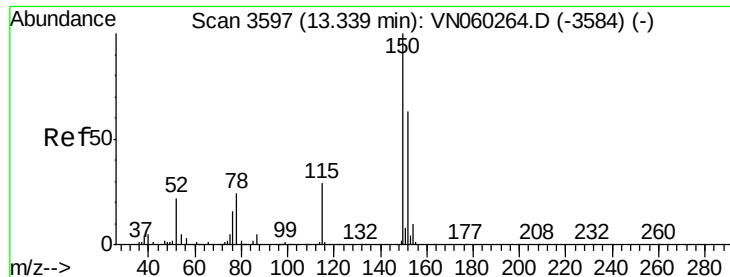
#71
Bromoform
Concen: 0.449 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060345.D
Acq: 4 Mar 2020 13:56

Tgt Ion:173 Resp: 728
Ion Ratio Lower Upper
173 100
175 1044.1 24.1 72.2#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#14

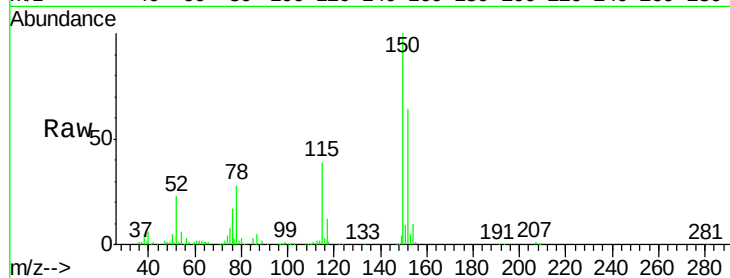
Tgt Ion:152 Resp: 137295

Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.0

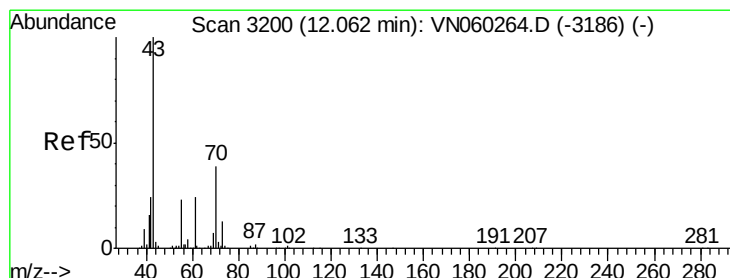
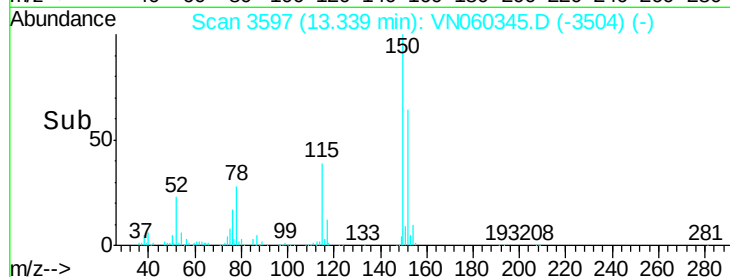
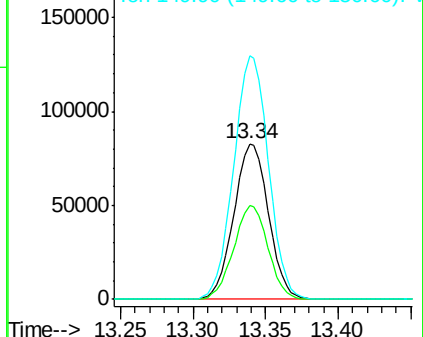
150 157.4 0.0 349.6



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: 0.506 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Tgt Ion: 43 Resp: 2250

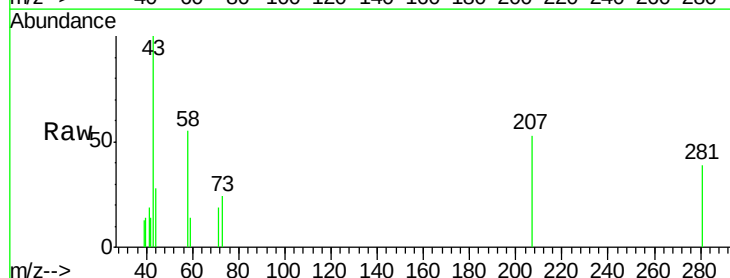
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

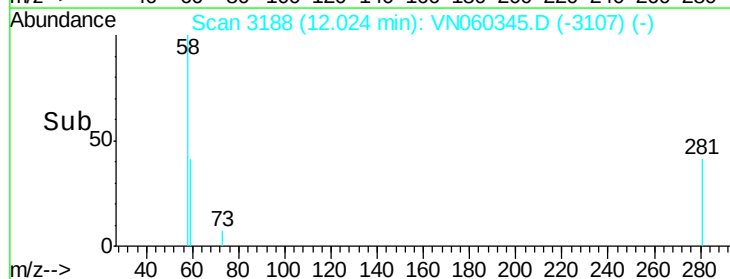
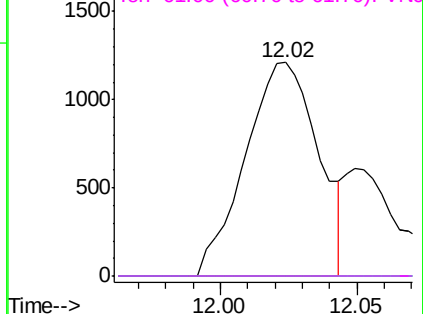


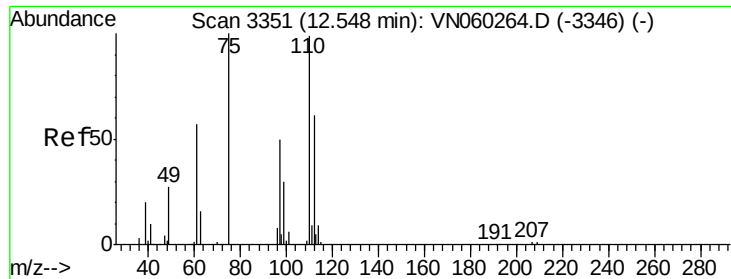
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.984 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

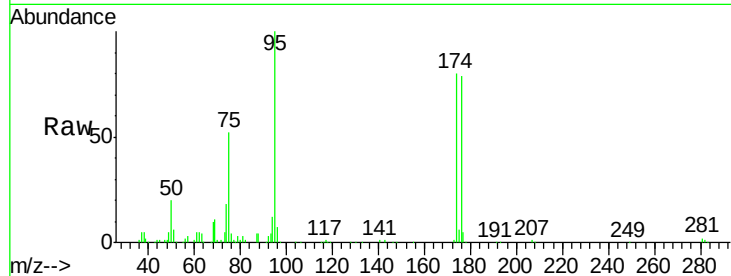
PB127249ZHE#14

Tgt Ion: 75 Resp: 75258

Ion Ratio Lower Upper

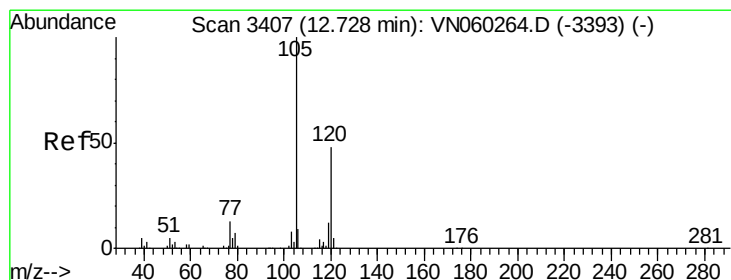
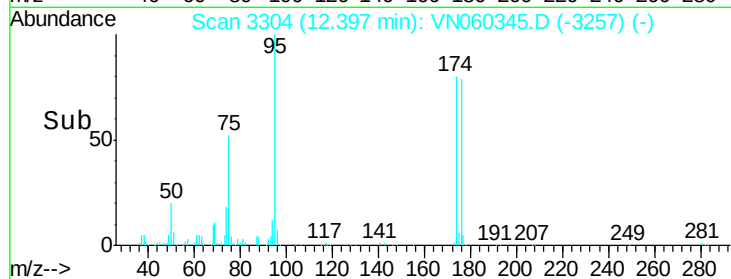
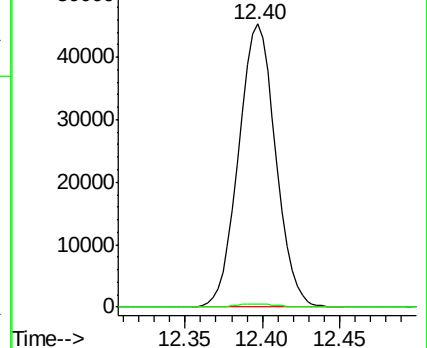
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.444 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060345.D

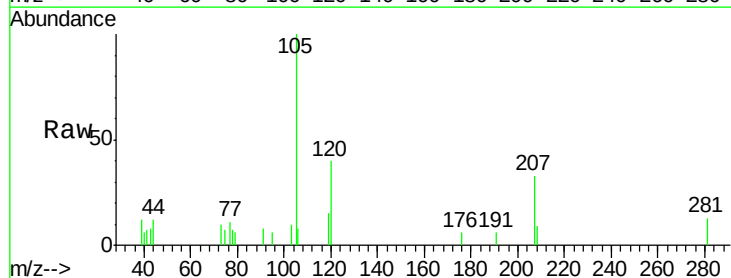
Acq: 4 Mar 2020 13:56

Tgt Ion: 105 Resp: 3804

Ion Ratio Lower Upper

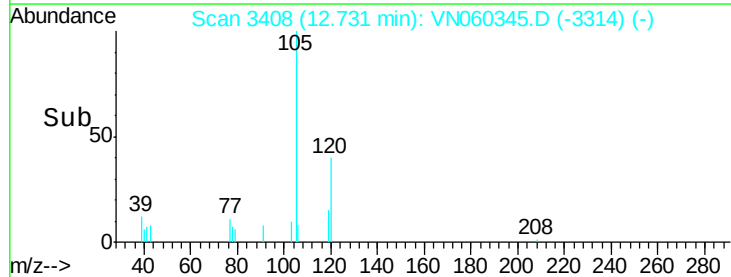
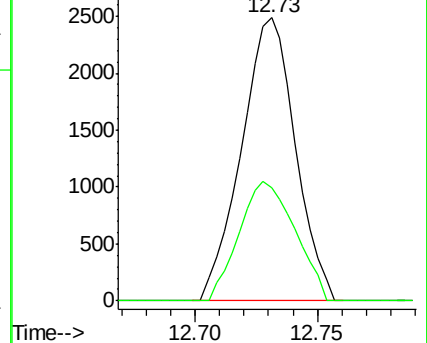
105 100

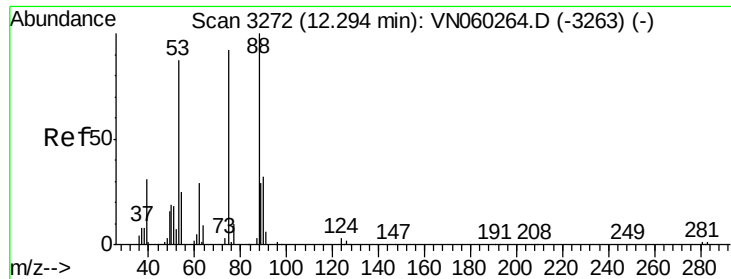
120 43.7 24.1 72.4



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: 68.967 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#14

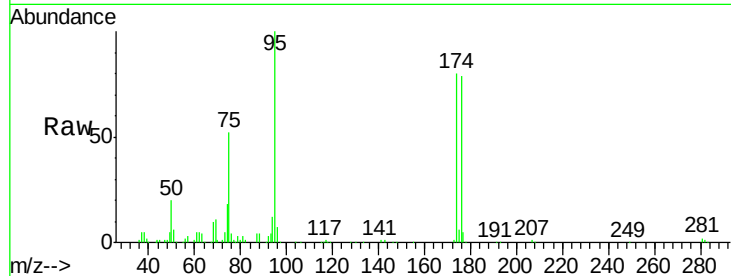
Tgt Ion: 75 Resp: 75258

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

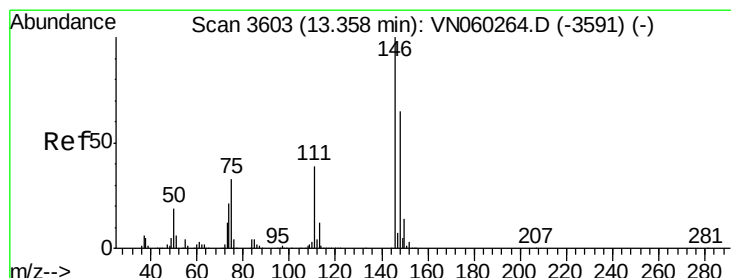
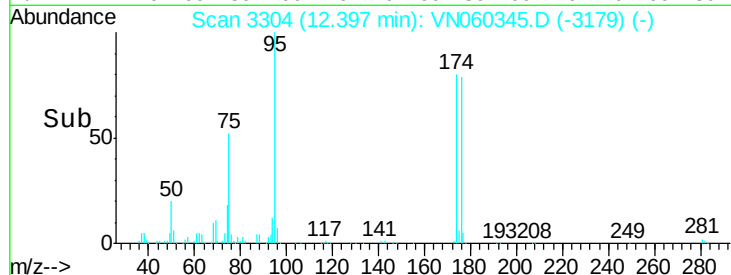
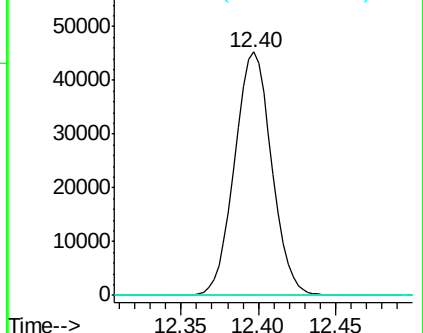
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060345.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060345.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060345.D (-3179) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN060345.D

Acq: 4 Mar 2020 13:56

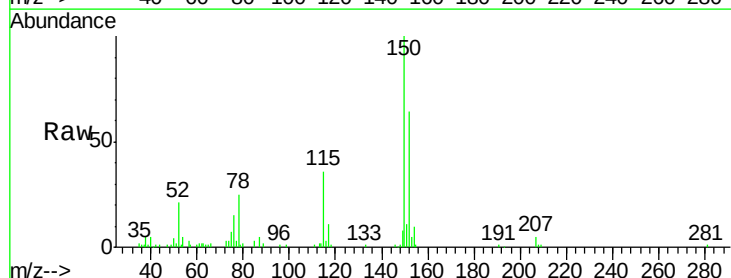
Tgt Ion: 146 Resp: 138

Ion Ratio Lower Upper

146 100

111 1247.1 19.8 59.4#

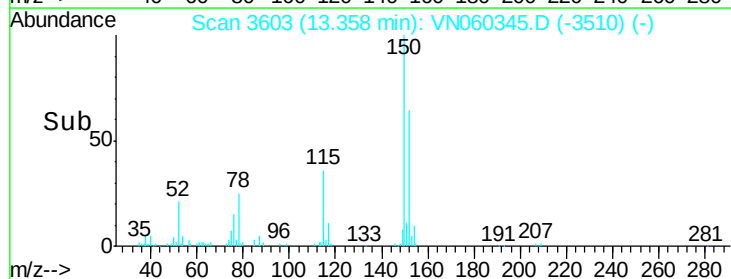
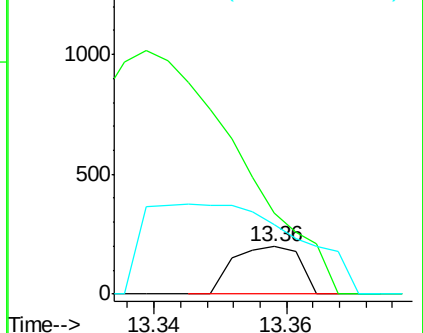
148 432.6 32.3 96.9#

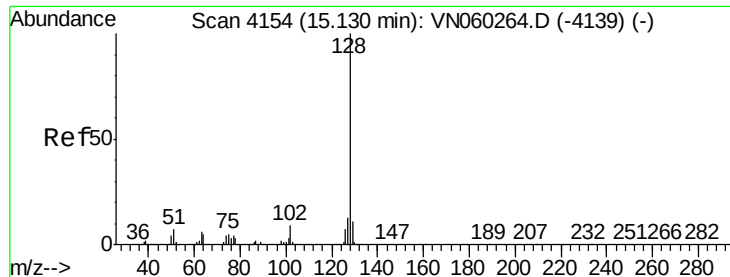


Abundance Ion 145.90 (145.60 to 146.60): VN060345.D (-3510) (-)

Ion 110.90 (110.60 to 111.60): VN060345.D (-3510) (-)

Ion 147.90 (147.60 to 148.60): VN060345.D (-3510) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060345.D

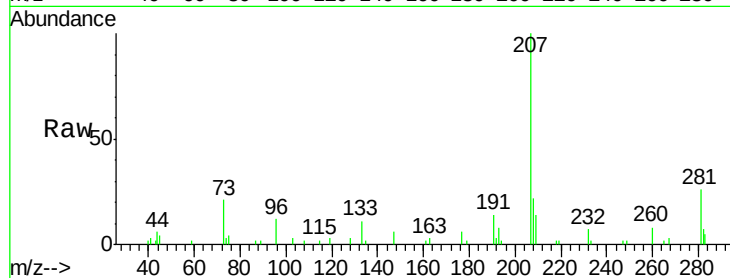
Acq: 4 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#14



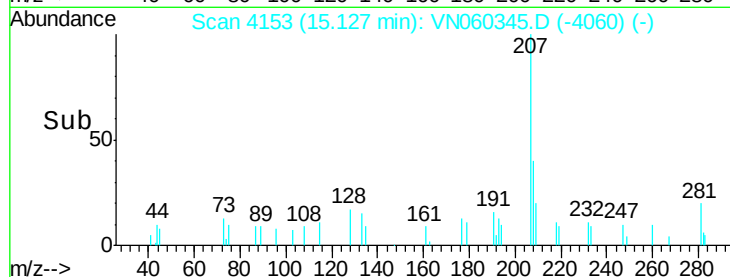
Tgt Ion:128 Resp: 462

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

