

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
 Data File : VN060474.D
 Acq On : 12 Mar 2020 13:17
 Operator : JC/MD
 Sample : L1893-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-SA

Quant Time: Mar 13 02:03:36 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	191150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	317939	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	295310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	134429	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	123952	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
35) Dibromofluoromethane	7.57	113	94207	63.84	ug/l	0.00
Spiked Amount			Recovery	=	127.68%	
50) Toluene-d8	10.08	98	391962	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.40	95	143390	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	

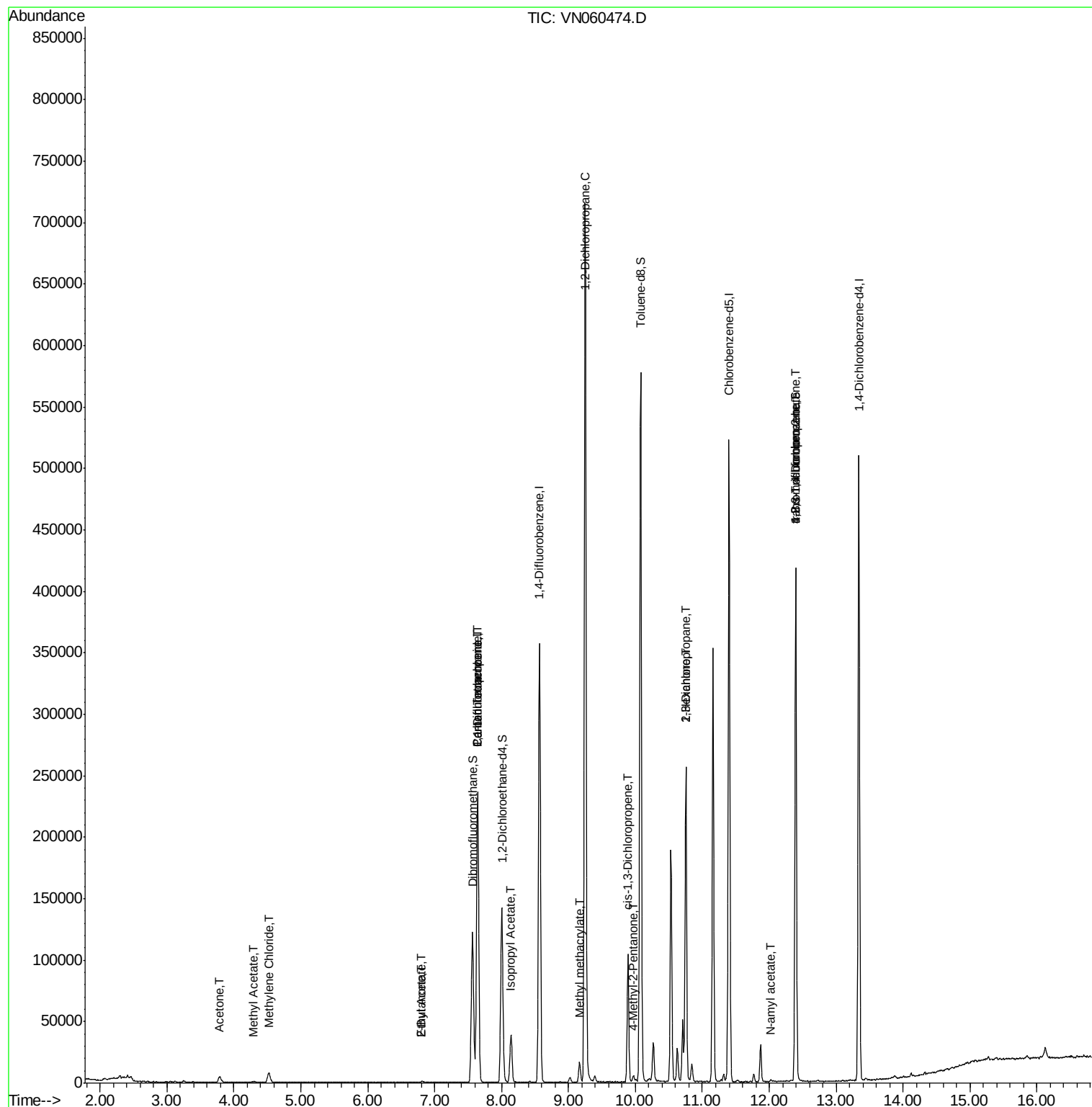
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	9132	11.53	ug/l	97
17) Carbon Disulfide	4.02	76	341	Below Cal	#	75
18) Methyl Acetate	4.30	43	1342	0.51	ug/l	# 56
20) Methylene Chloride	4.52	84	6169	2.84	ug/l	93
25) 2-Butanone	6.80	43	1979	1.55	ug/l	98
31) Cyclohexane	7.64	56	4304	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15203	5.02	ug/l	# 48
37) Ethyl Acetate	6.80	43	1979	0.69	ug/l	# 68
38) Carbon Tetrachloride	7.64	117	18606	6.31	ug/l	# 16
43) Isopropyl Acetate	8.14	43	46844	9.33	ug/l	# 91
45) 1,2-Dichloropropane	9.25	63	774	0.34	ug/l	# 44
48) Methyl methacrylate	9.16	41	2246	0.98	ug/l	# 13
51) 4-Methyl-2-Pentanone	9.97	43	4119	1.45	ug/l	# 81
54) cis-1,3-Dichloropropene	9.89	75	19053	4.93	ug/l	# 57
57) 1,3-Dichloropropane	10.75	76	2457	0.68	ug/l	# 42
59) 2-Hexanone	10.75	43	38380	18.35	ug/l	# 52
74) N-amyl acetate	12.02	43	1964	0.45	ug/l	# 44
76) 1,2,3-Trichloropropane	12.40	75	72824	24.69	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	72824	68.16	ug/l	# 8
87) 1,3-Dichlorobenzene	13.35	146	94	Below Cal	#	1
88) 1,4-Dichlorobenzene	13.35	146	94	Below Cal	#	1
95) Naphthalene	15.13	128	194	Below Cal	#	69

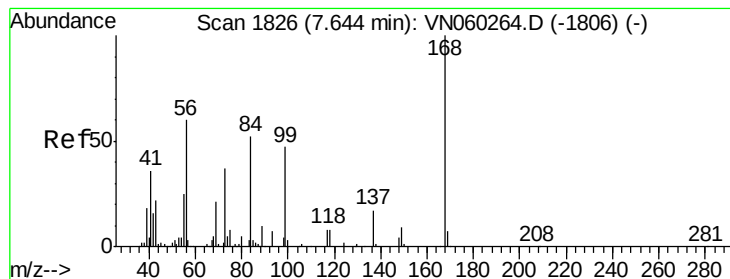
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

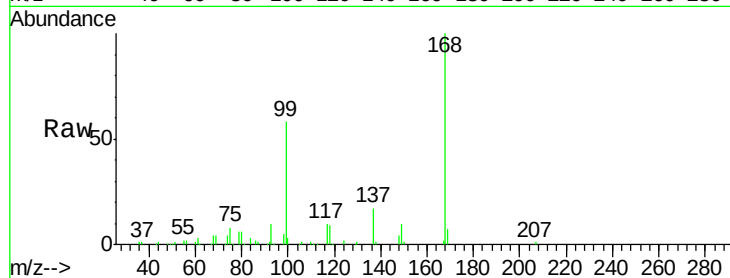
TP-1-SA

Tgt Ion:168 Resp: 191150

Ion Ratio Lower Upper

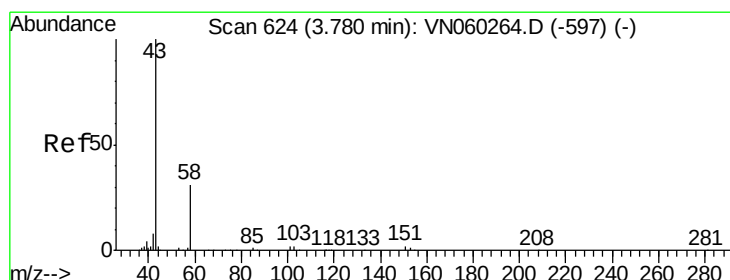
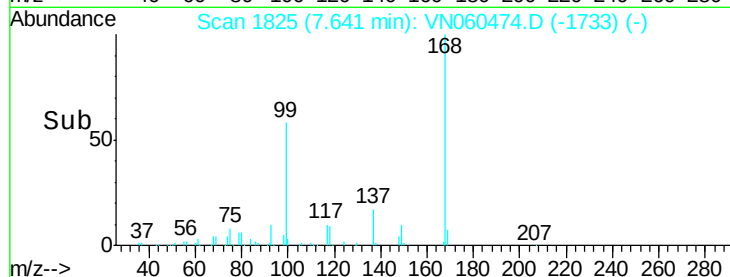
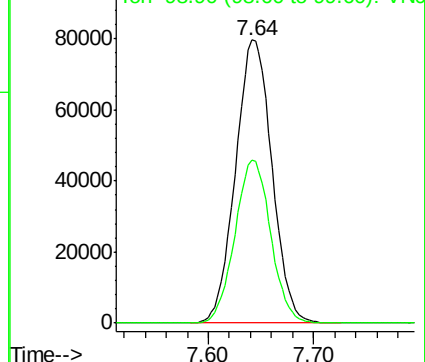
168 100

99 57.8 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: 11.53 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060474.D

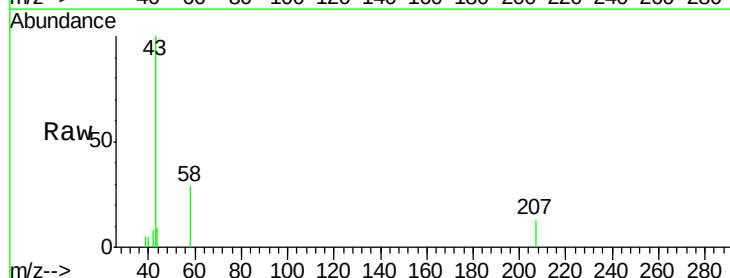
Acq: 12 Mar 2020 13:17

Tgt Ion: 43 Resp: 9132

Ion Ratio Lower Upper

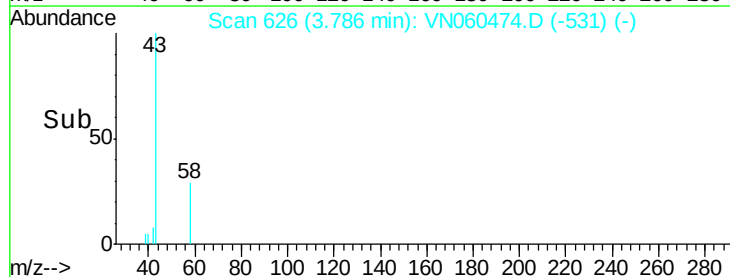
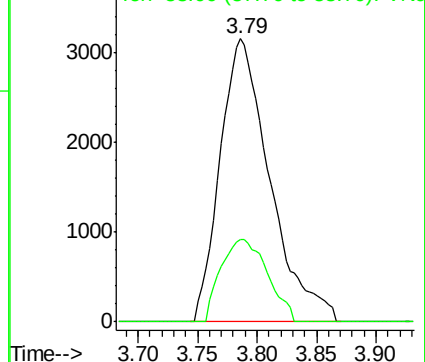
43 100

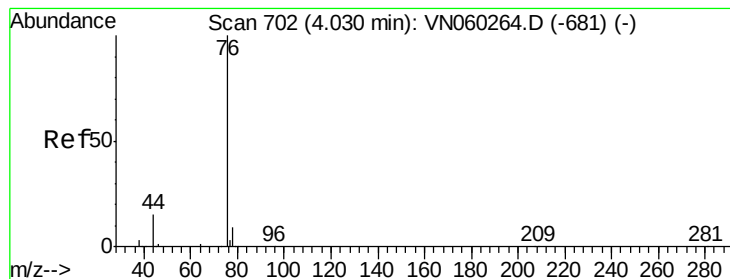
58 29.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampled :

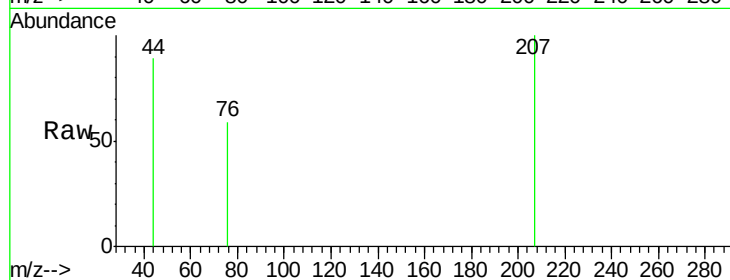
TP-1-SA

Tgt Ion: 76 Resp: 341

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

250

200

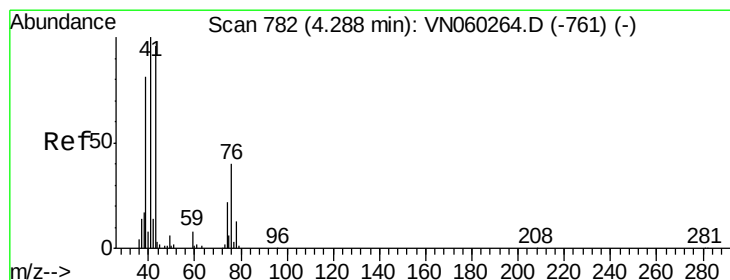
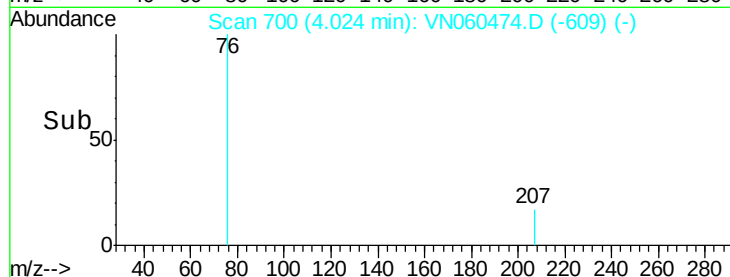
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.51 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060474.D

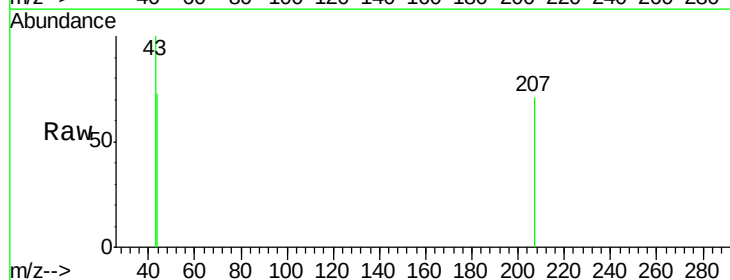
Acq: 12 Mar 2020 13:17

Tgt Ion: 43 Resp: 1342

Ion Ratio Lower Upper

43 100

74 2.2 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

500

400

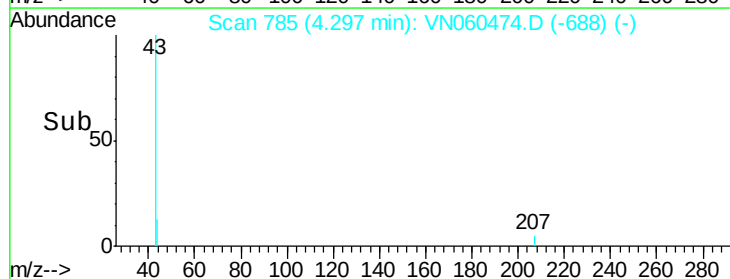
300

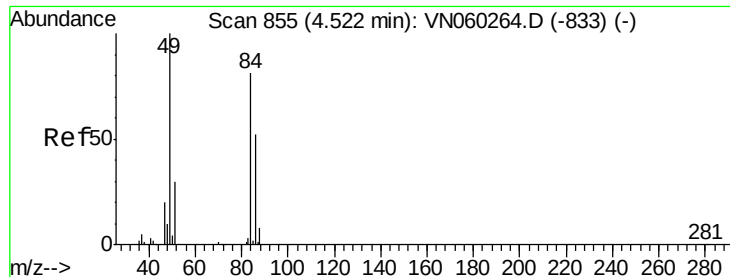
200

100

0

Time-->

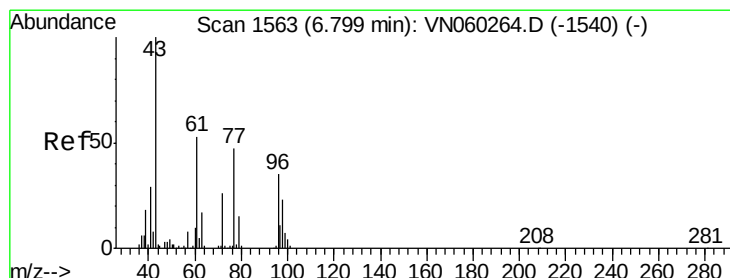
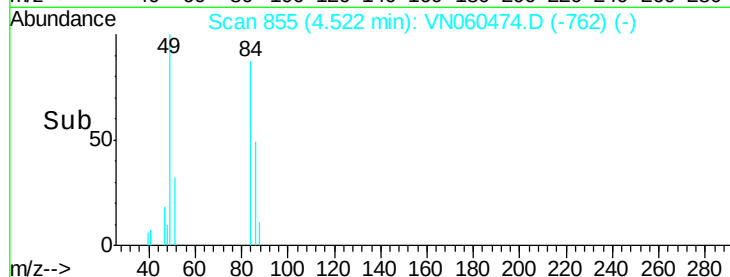
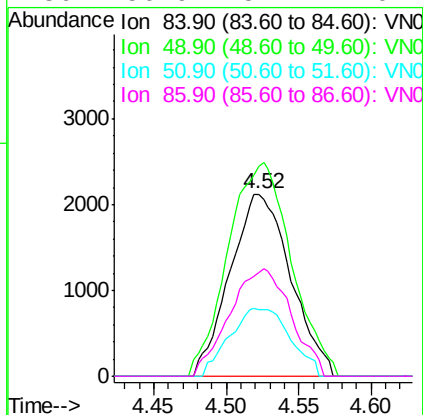
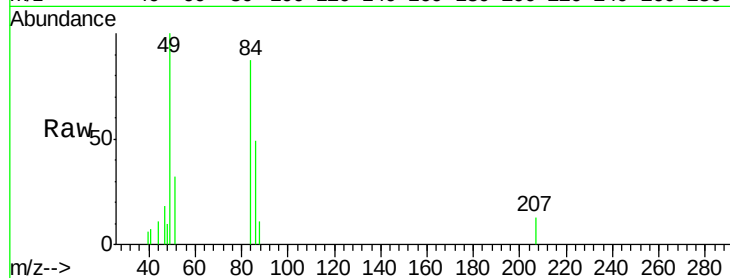




#20
Methylene Chloride
Concen: 2.84 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060474.D
Acq: 12 Mar 2020 13:17

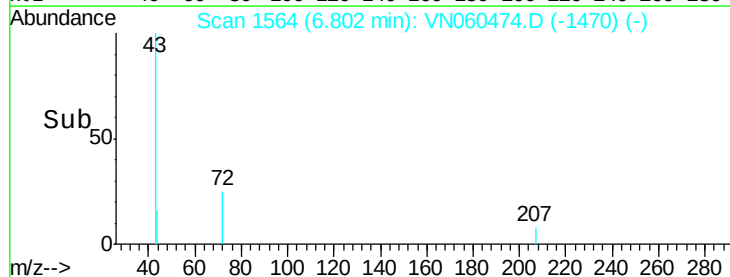
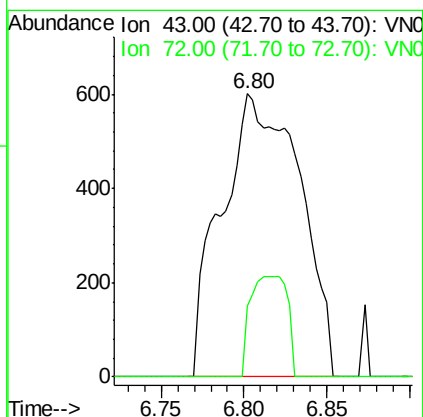
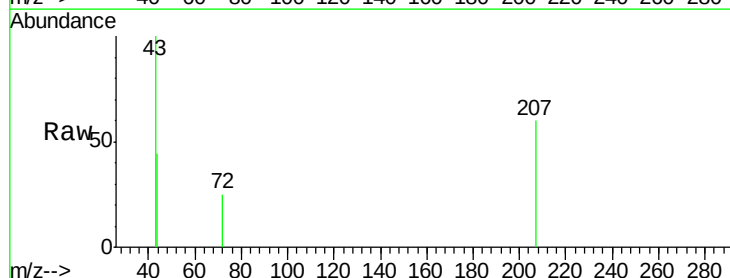
Instrument :
MSVOA_N
ClientSampled :
TP-1-SA

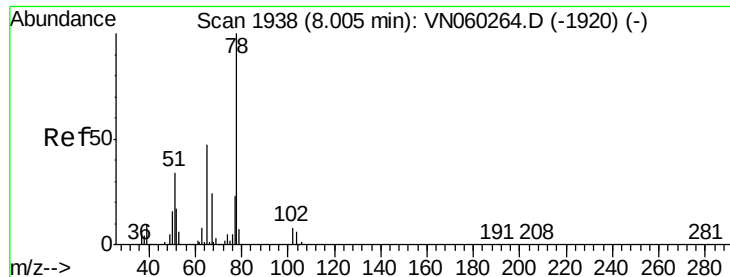
Tgt Ion:	84	Resp:	6169
Ion	Ratio	Lower	Upper
84	100		
49	115.1	99.3	148.9
51	36.6	30.1	45.1
86	56.9	51.1	76.7



#25
2-Butanone
Concen: 1.55 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN060474.D
Acq: 12 Mar 2020 13:17

Tgt Ion:	43	Resp:	1979
Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.9	31.3

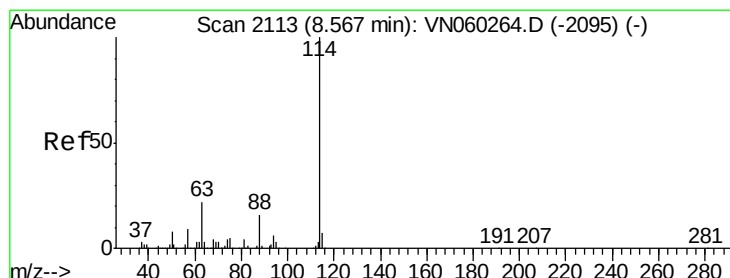
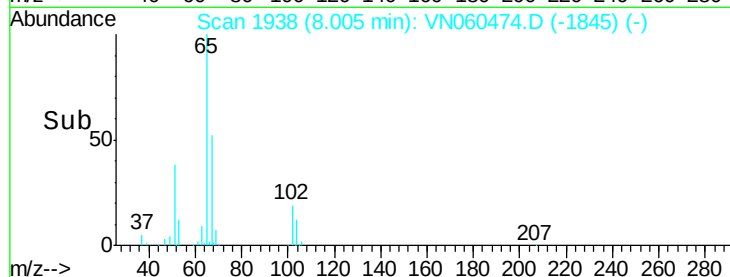
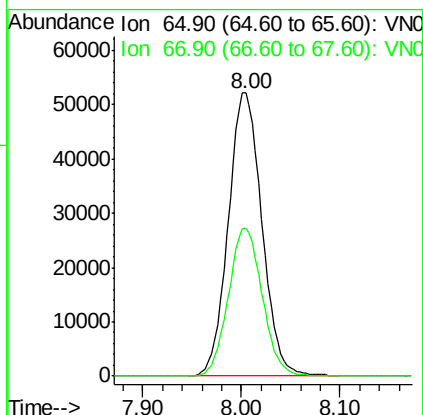
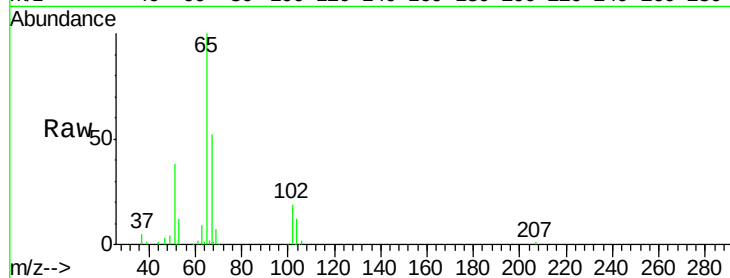




#33
 1,2-Dichloroethane-d4
 Concen: 50.54 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060474.D
 Acq: 12 Mar 2020 13:17

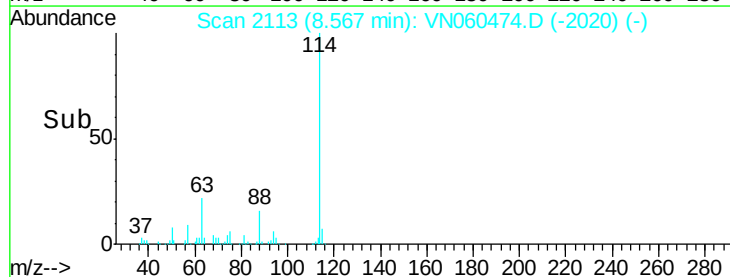
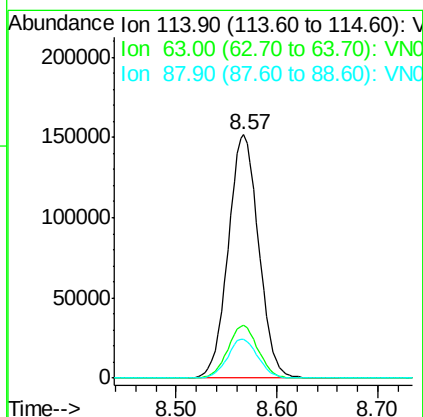
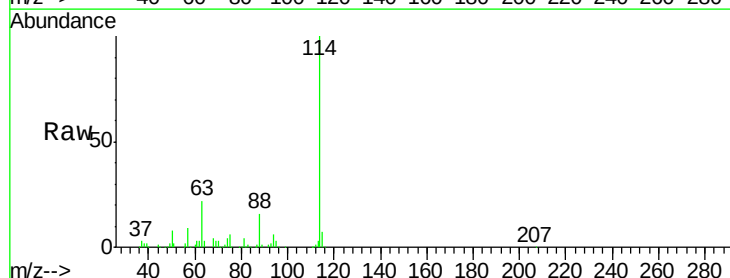
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-SA

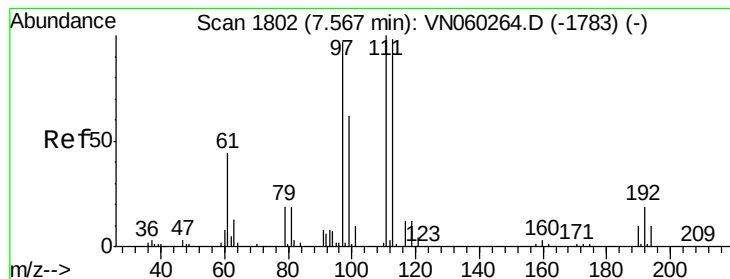
Tgt Ion: 65 Resp: 123952
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060474.D
 Acq: 12 Mar 2020 13:17

Tgt Ion: 114 Resp: 317939
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 63.84 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :
MSVOA_N
ClientSampleId :
TP-1-SA

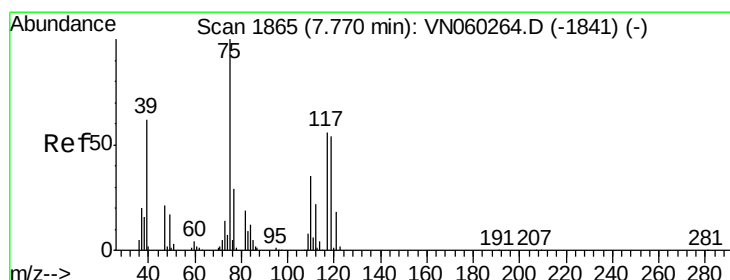
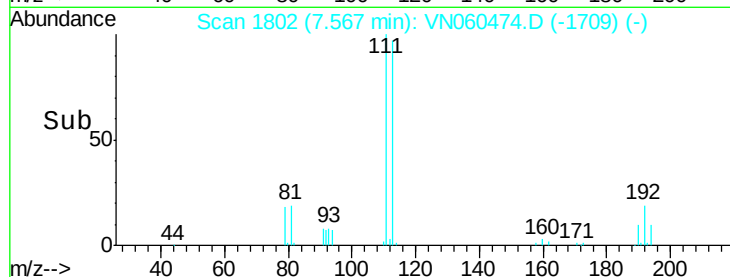
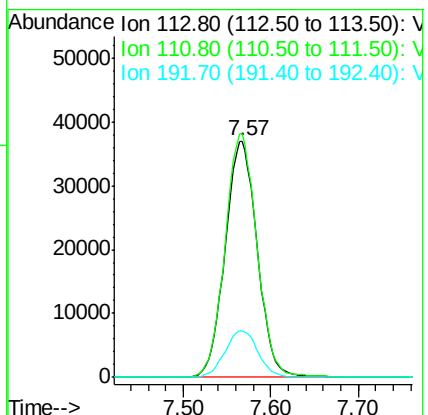
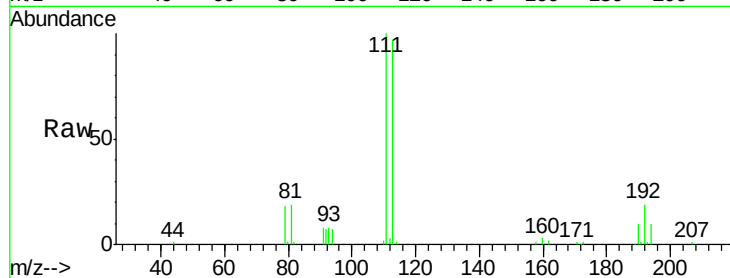
Tgt Ion:113 Resp: 94207

Ion Ratio Lower Upper

113 100

111 102.7 82.4 123.6

192 20.0 16.2 24.2



#36

1,1-Dichloropropene

Concen: 5.02 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

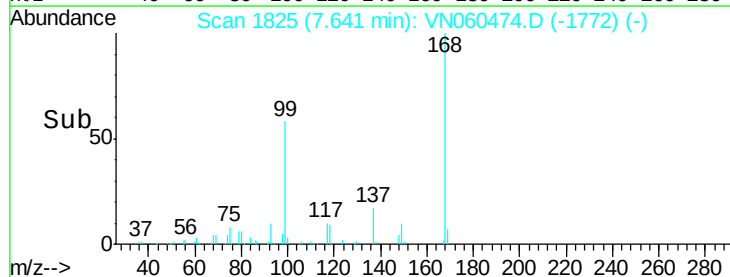
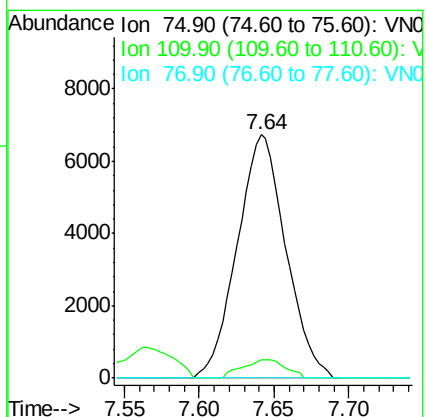
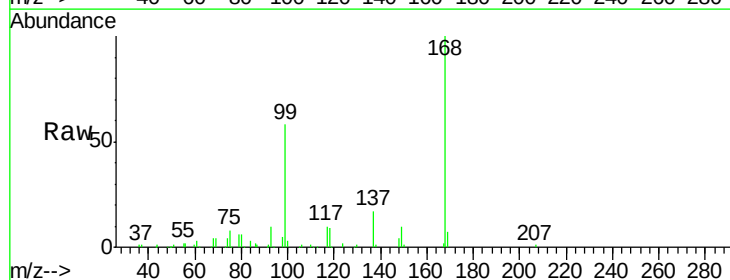
Tgt Ion: 75 Resp: 15203

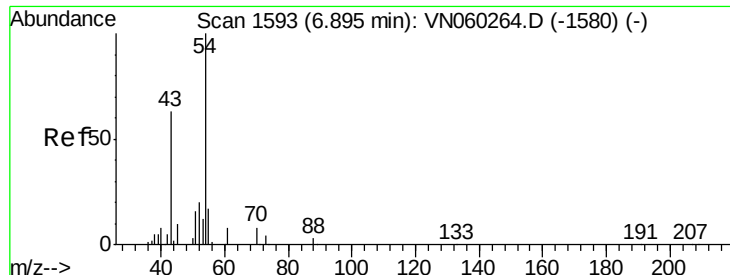
Ion Ratio Lower Upper

75 100

110 6.7 17.3 52.0#

77 0.0 24.2 36.2#

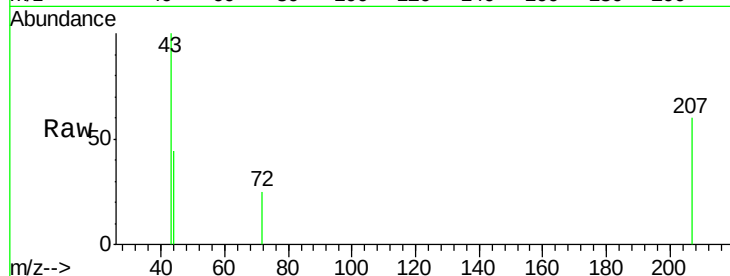




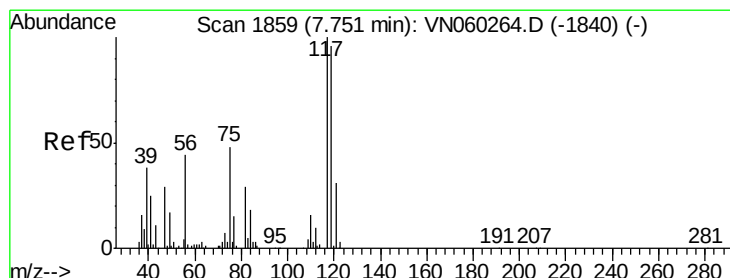
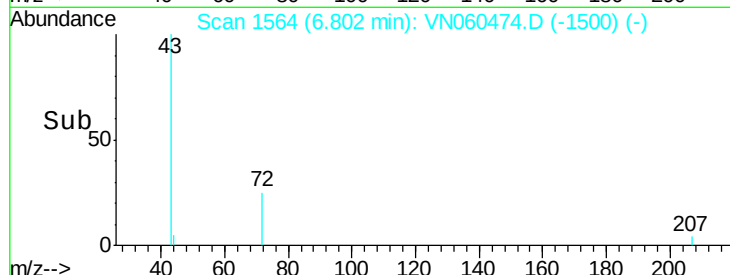
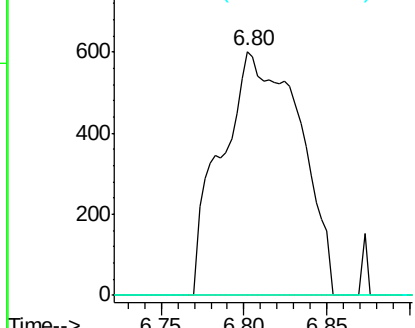
#37
Ethyl Acetate
 Concen: 0.69 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN060474.D
 Acq: 12 Mar 2020 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-SA

Tgt Ion: 43 Resp: 1979
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.1 16.7#
 70 0.0 8.4 12.6#

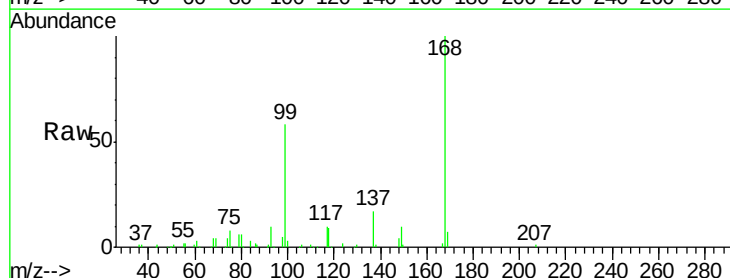


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

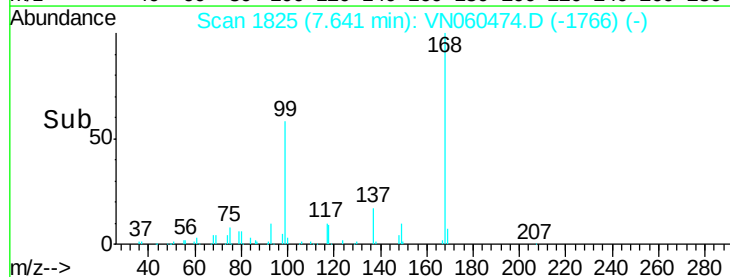
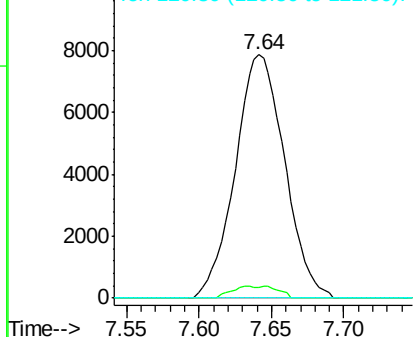


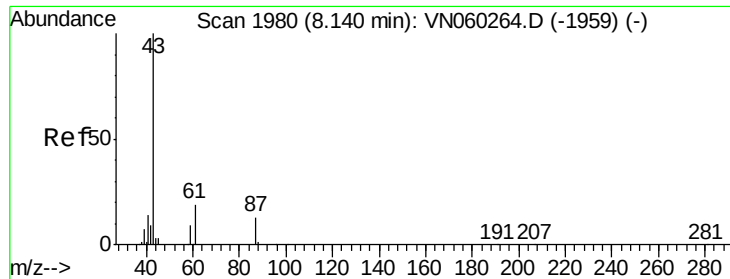
#38
Carbon Tetrachloride
 Concen: 6.31 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060474.D
 Acq: 12 Mar 2020 13:17

Tgt Ion: 117 Resp: 18606
 Ion Ratio Lower Upper
 117 100
 119 4.6 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: 9.33 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampled :

TP-1-SA

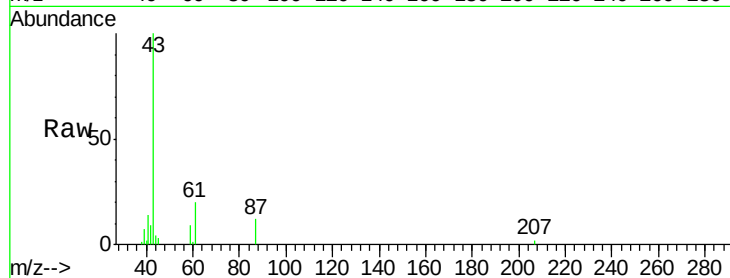
Tgt Ion: 43 Resp: 46844

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

87 12.3 10.6 16.0

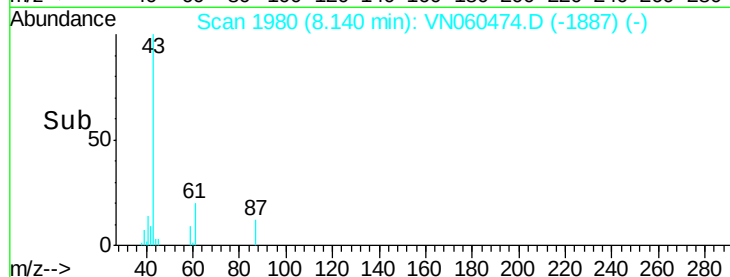


Abundance Ion 43.00 (42.70 to 43.70): VN060474.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060474.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060474.D (-1959) (-)

Time-->

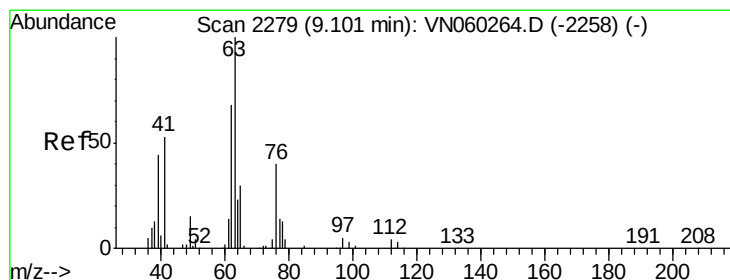


Abundance Ion 43.00 (42.70 to 43.70): VN060474.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060474.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060474.D (-1887) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.34 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060474.D

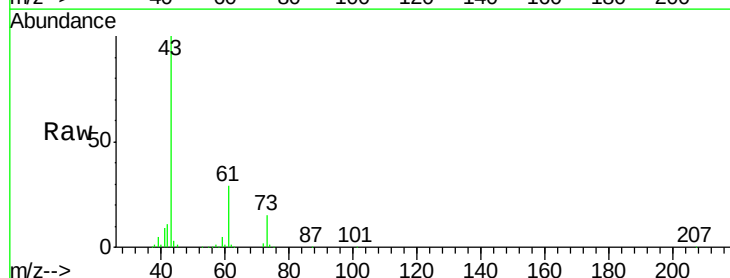
Acq: 12 Mar 2020 13:17

Tgt Ion: 63 Resp: 774

Ion Ratio Lower Upper

63 100

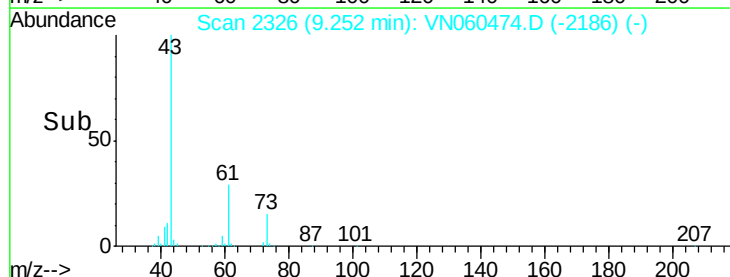
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060474.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060474.D (-2258) (-)

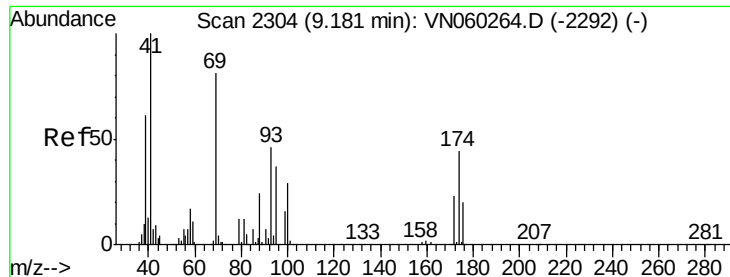
Time-->



Abundance Ion 62.90 (62.60 to 63.60): VN060474.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060474.D (-2186) (-)

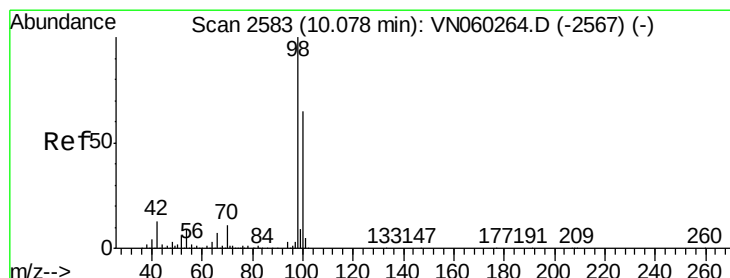
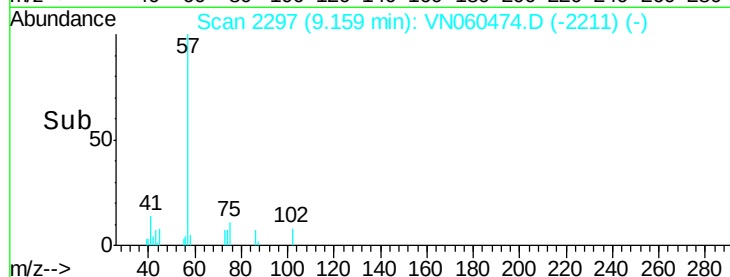
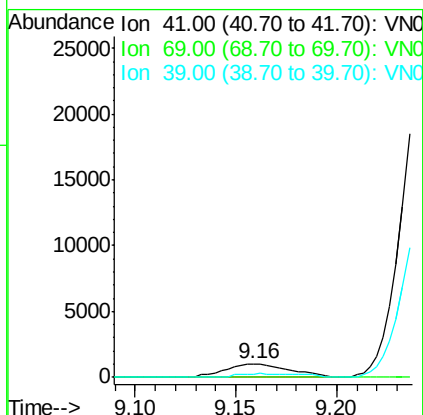
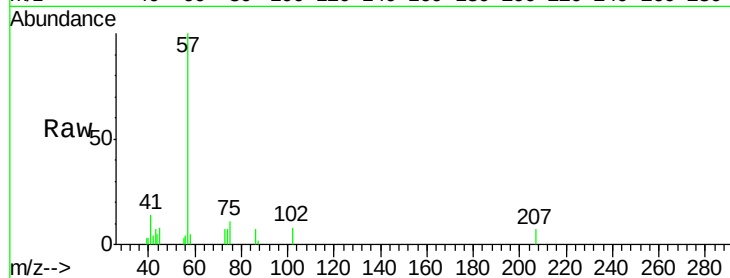
Time-->



#48
Methyl methacrylate
Concen: 0.98 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060474.D
Acq: 12 Mar 2020 13:17

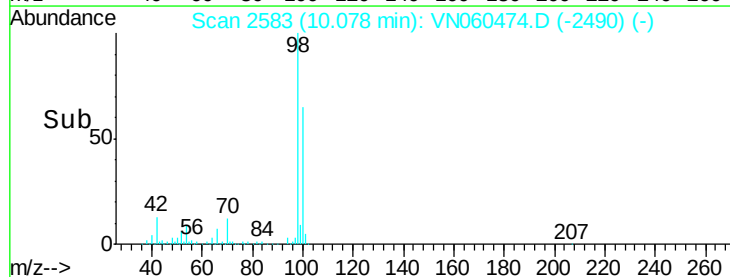
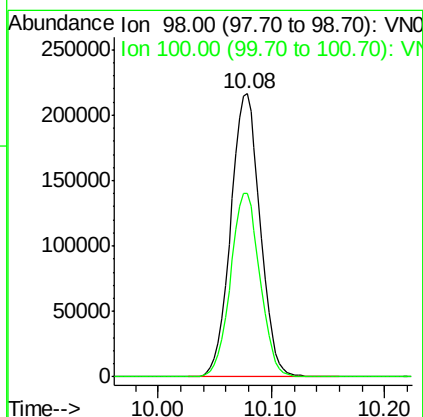
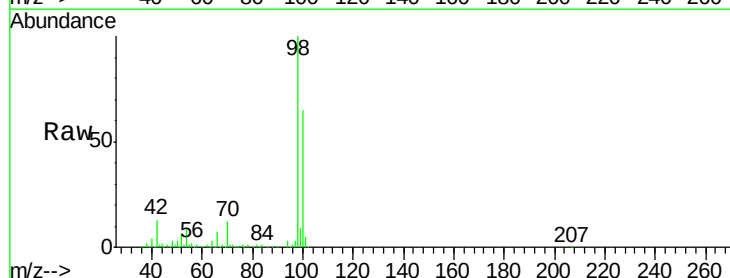
Instrument :
MSVOA_N
ClientSampleId :
TP-1-SA

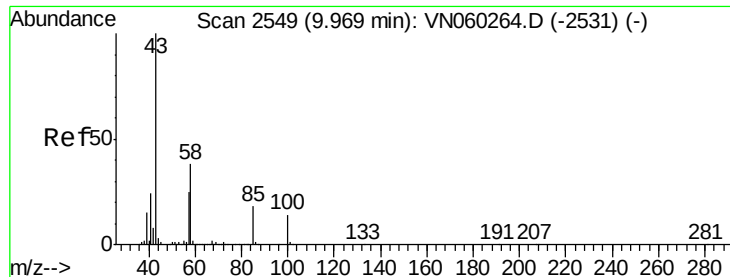
Tgt Ion: 41 Resp: 2246
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.48 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060474.D
Acq: 12 Mar 2020 13:17

Tgt Ion: 98 Resp: 391962
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.45 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

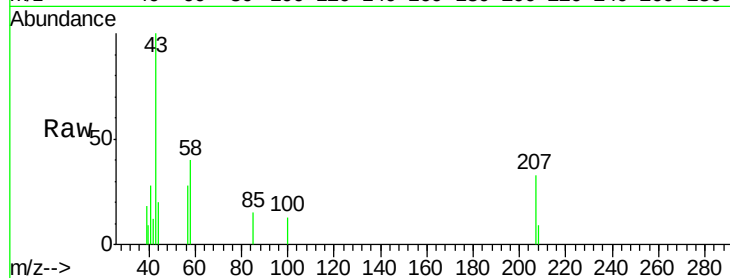
TP-1-SA

Tgt Ion: 43 Resp: 4119

Ion Ratio Lower Upper

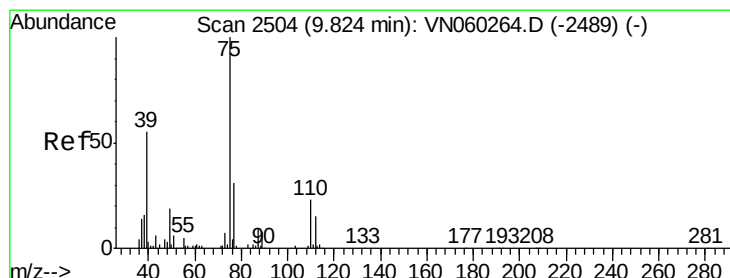
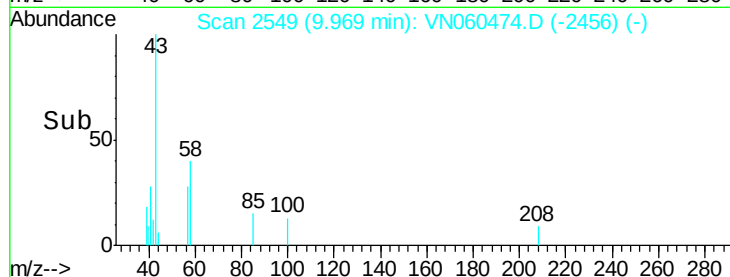
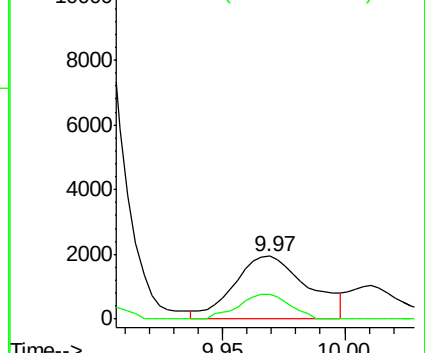
43 100

58 27.3 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: 4.93 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

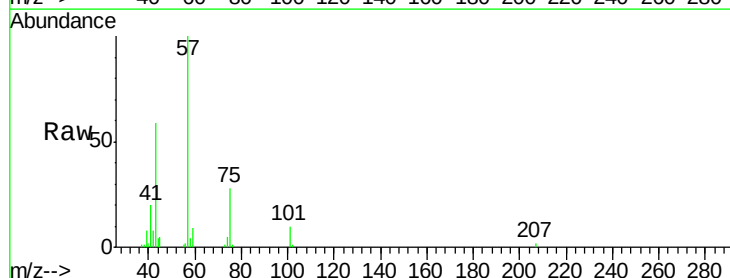
Tgt Ion: 75 Resp: 19053

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

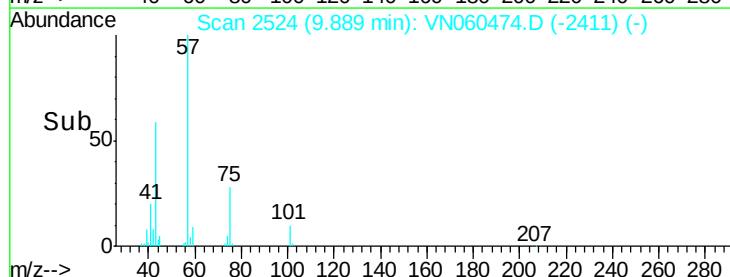
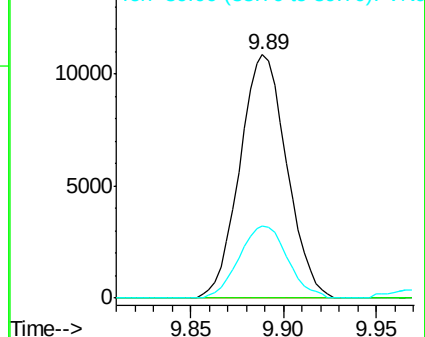
39 29.8 43.8 65.8#

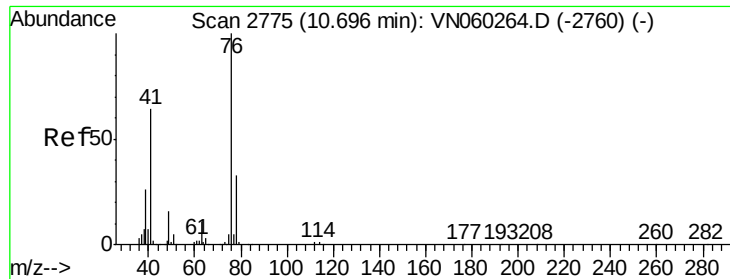


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.68 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

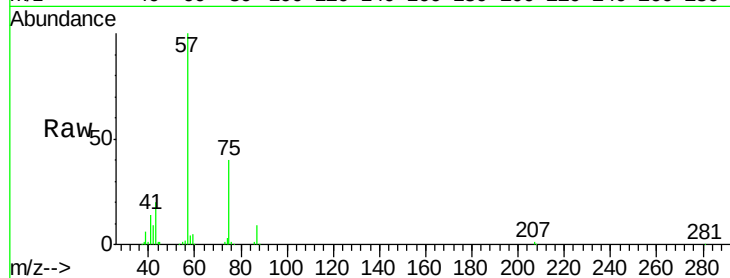
TP-1-SA

Tgt Ion: 76 Resp: 2457

Ion Ratio Lower Upper

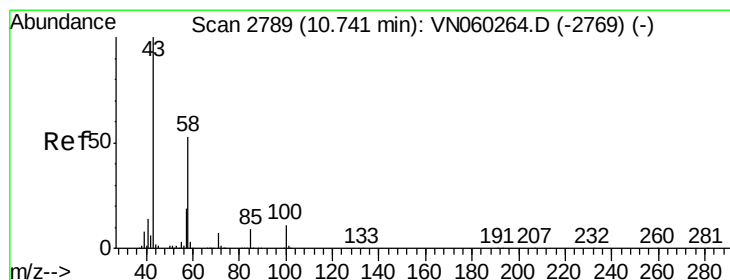
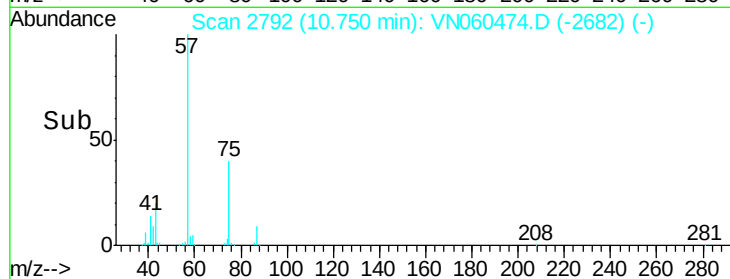
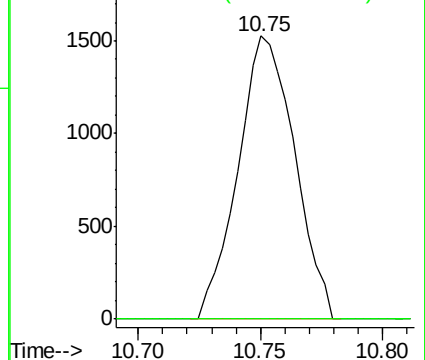
76 100

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: 18.35 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060474.D

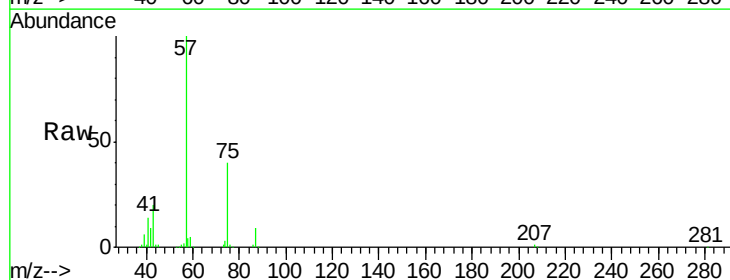
Acq: 12 Mar 2020 13:17

Tgt Ion: 43 Resp: 38380

Ion Ratio Lower Upper

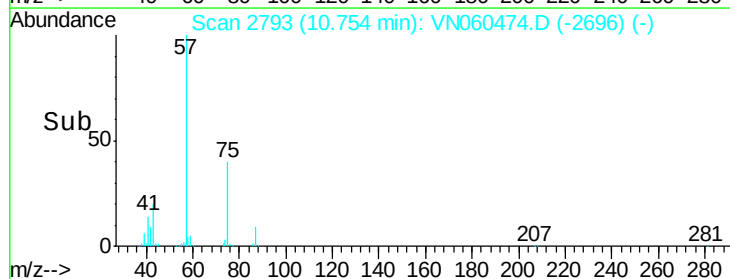
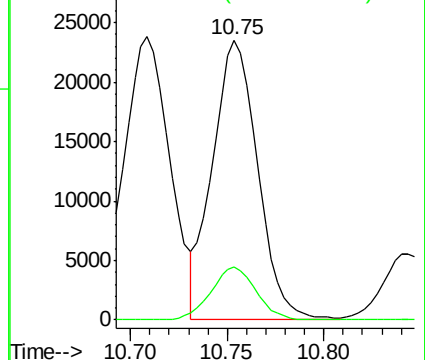
43 100

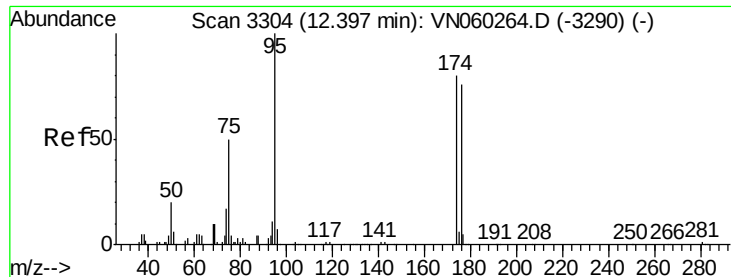
58 18.6 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.64 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

TP-1-SA

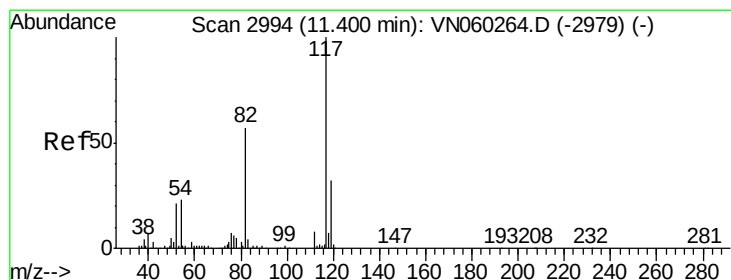
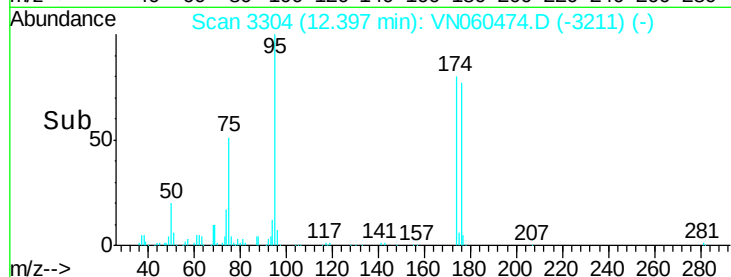
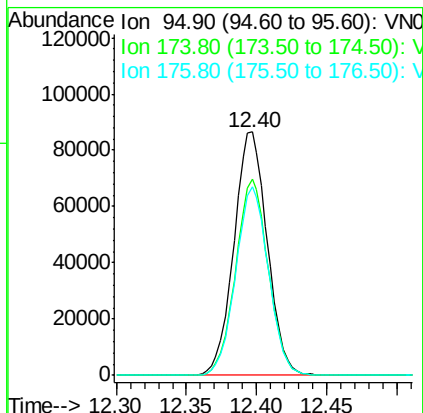
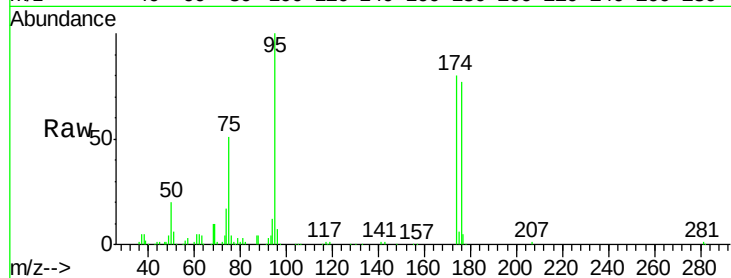
Tgt Ion: 95 Resp: 143390

Ion Ratio Lower Upper

95 100

174 78.8 0.0 159.2

176 76.3 0.0 153.8



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

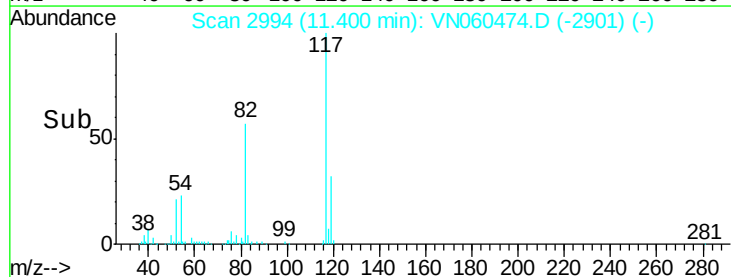
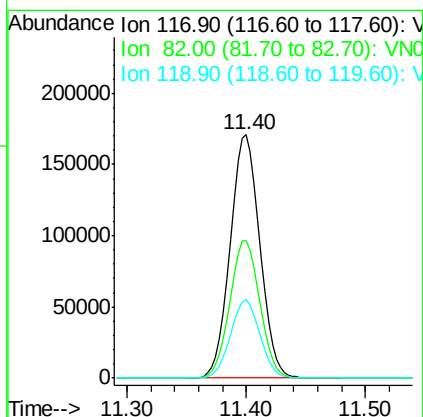
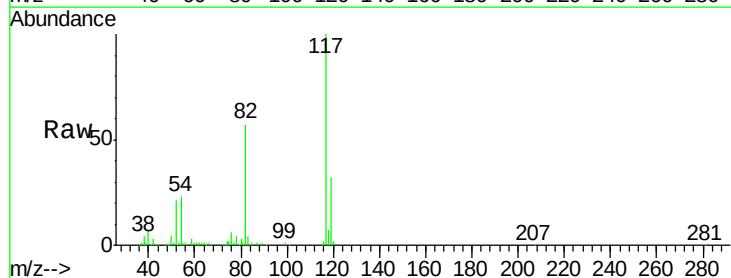
Tgt Ion: 117 Resp: 295310

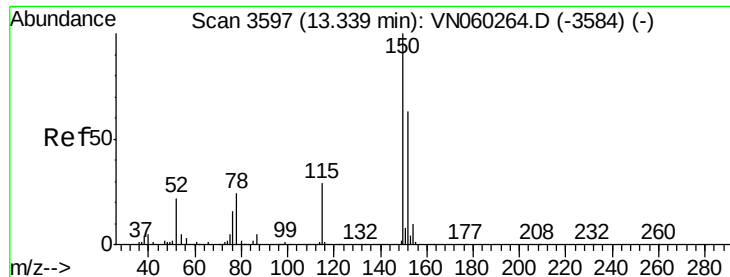
Ion Ratio Lower Upper

117 100

82 56.6 45.8 68.6

119 32.0 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

TP-1-SA

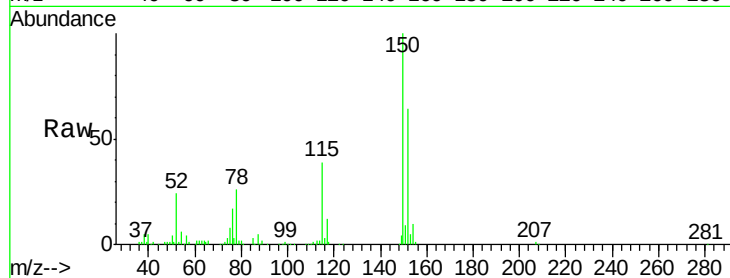
Tgt Ion: 152 Resp: 134429

Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.0

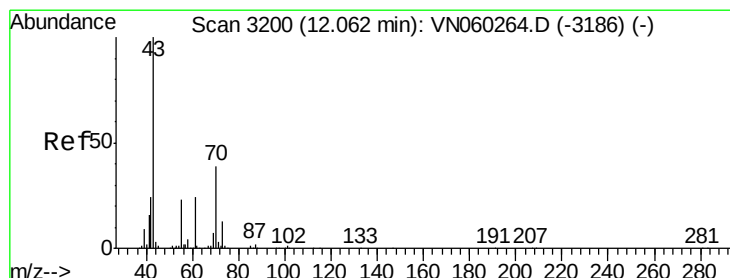
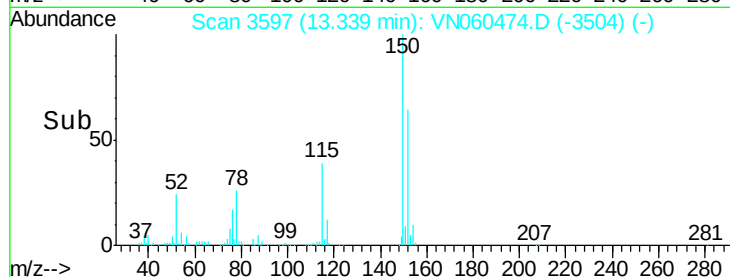
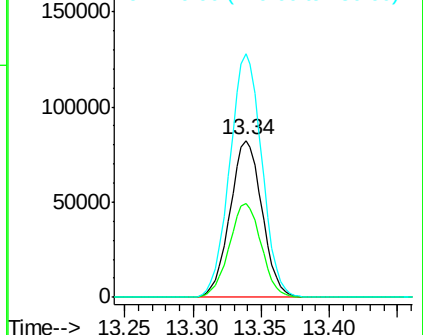
150 155.7 0.0 349.6



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: 0.45 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Tgt Ion: 43 Resp: 1964

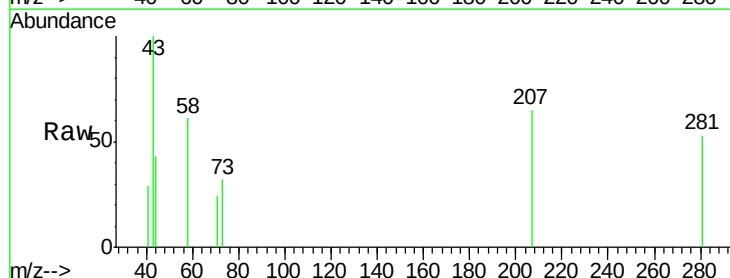
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

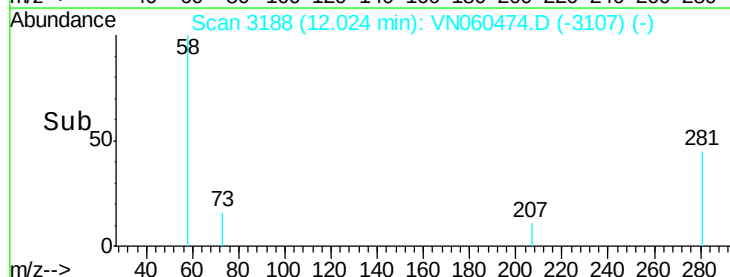
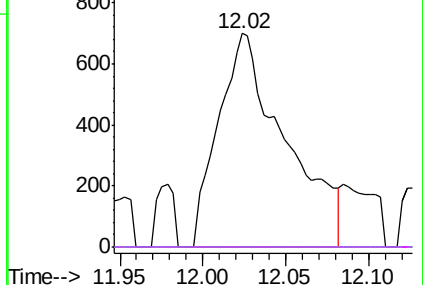


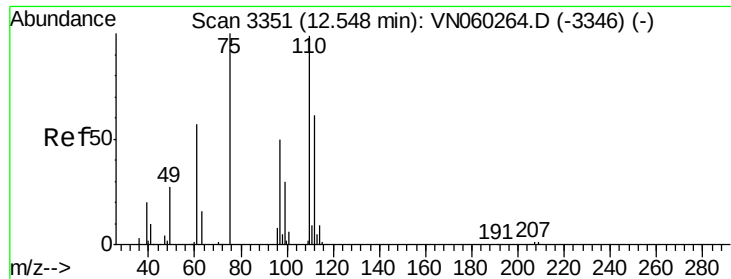
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.69 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

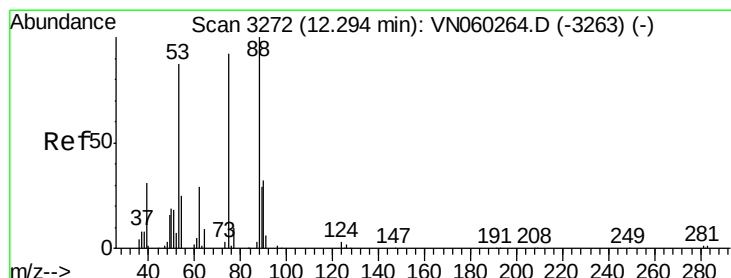
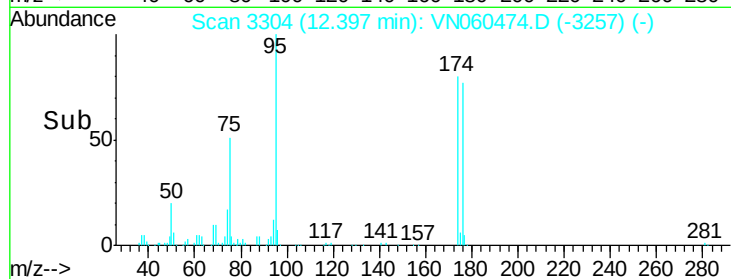
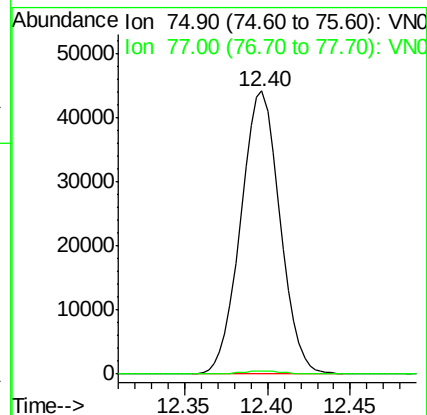
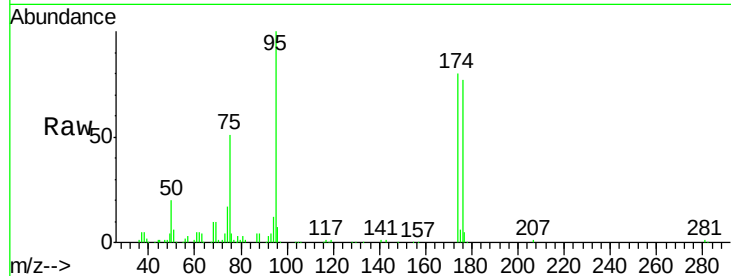
TP-1-SA

Tgt Ion: 75 Resp: 72824

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.16 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060474.D

Acq: 12 Mar 2020 13:17

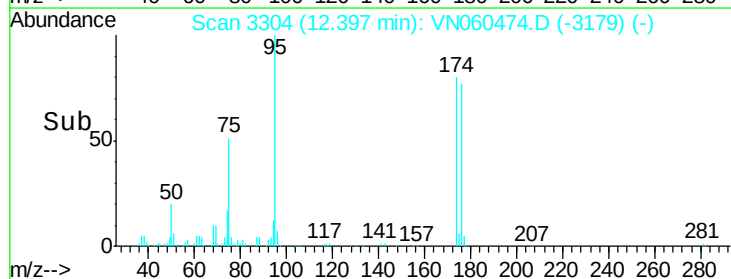
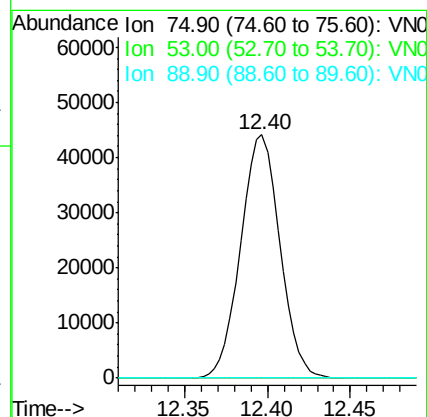
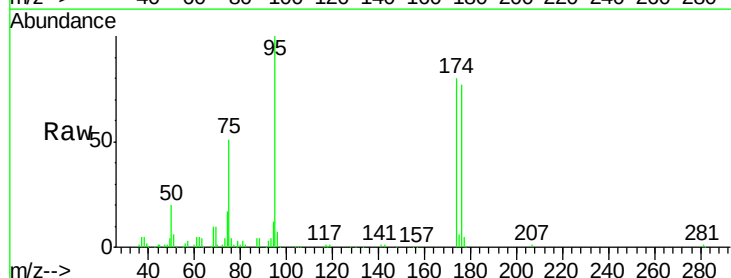
Tgt Ion: 75 Resp: 72824

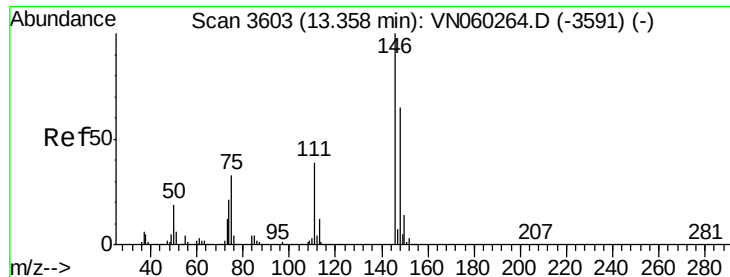
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

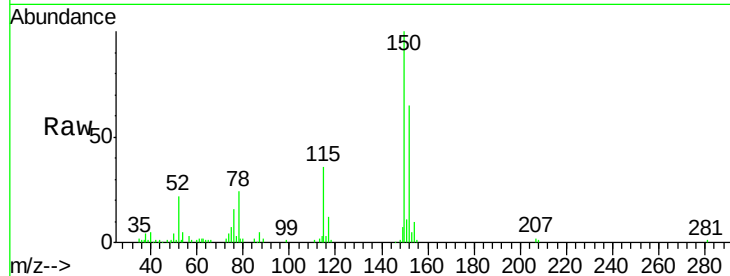




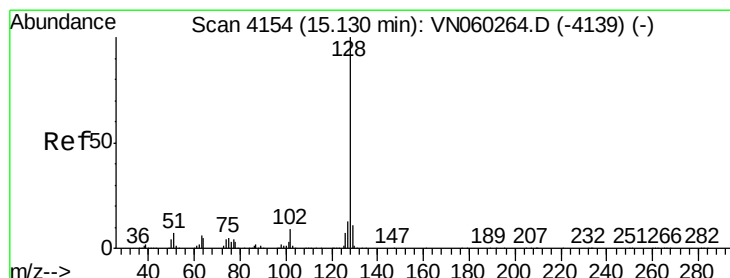
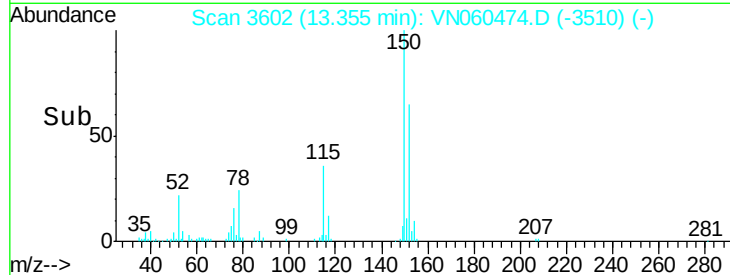
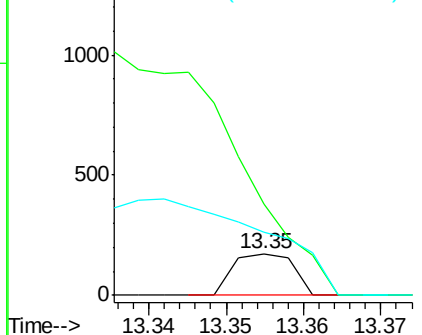
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.35 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN060474.D
 Acq: 12 Mar 2020 13:17

Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-SA

Tgt Ion:146 Resp: 94
 Ion Ratio Lower Upper
 146 100
 111 1881.9 19.8 59.4#
 148 729.8 32.3 96.9#

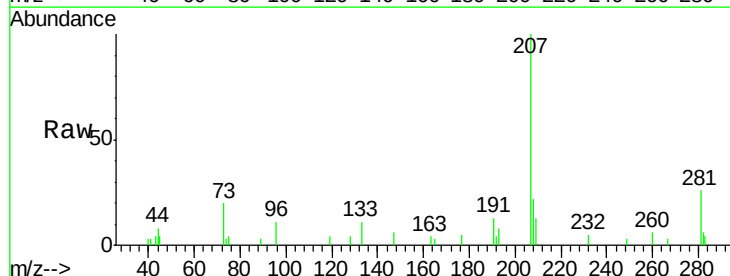


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN060474.D
 Acq: 12 Mar 2020 13:17

Tgt Ion:128 Resp: 194
 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

