

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030520\
 Data File : VN060363.D
 Acq On : 5 Mar 2020 13:44
 Operator : JC/MD
 Sample : L1803-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 N38129

Quant Time: Mar 06 00:44:49 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

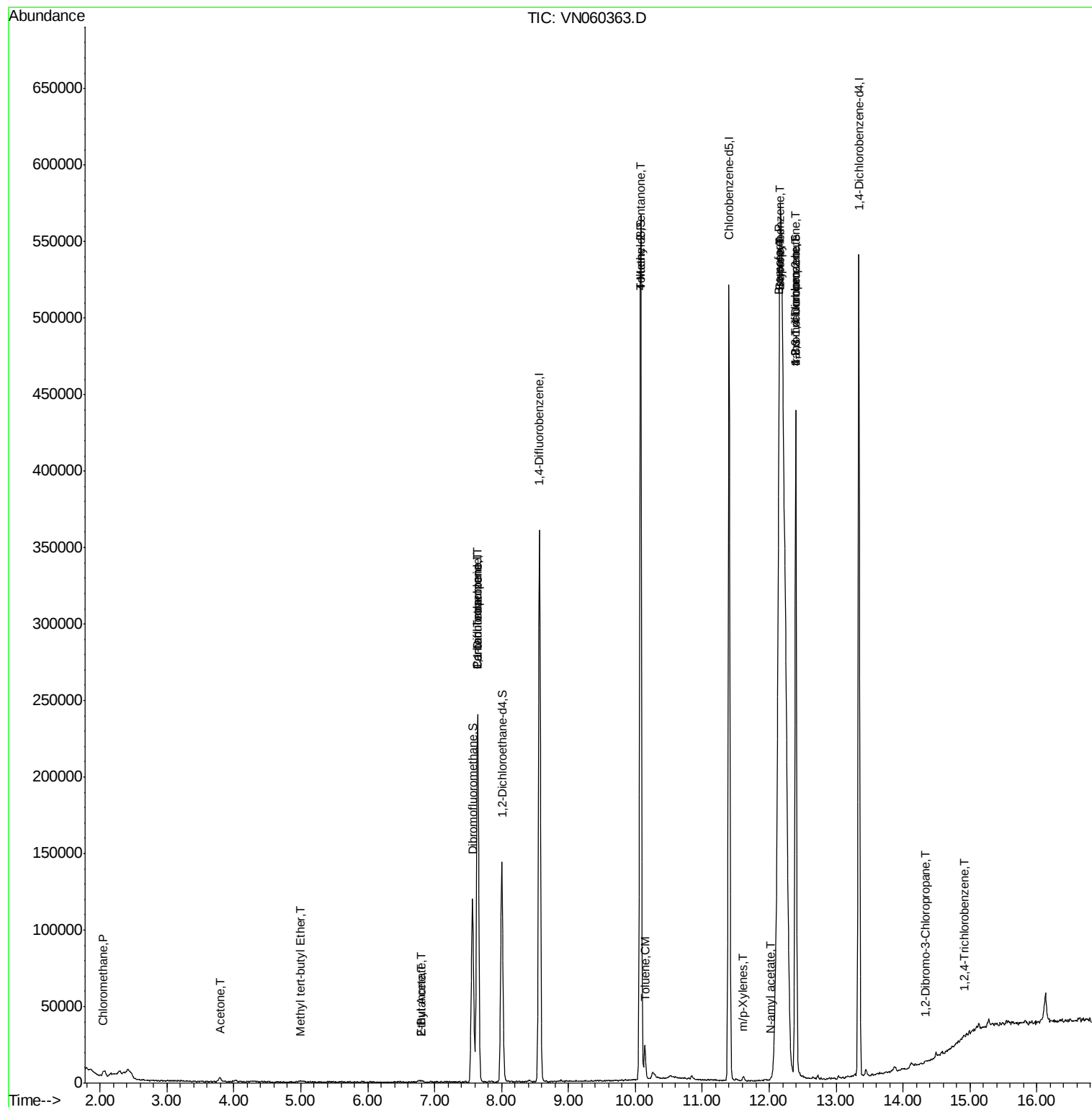
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	321528	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	296935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138900	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	124516	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
35) Dibromofluoromethane	7.56	113	90754	60.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.62%	
50) Toluene-d8	10.08	98	392772	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.40	95	149917	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	956	0.307	ug/l	95
16) Acetone	3.79	43	5359	6.636	ug/l	97
17) Carbon Disulfide	4.03	76	608	Below Cal	#	75
19) Methyl tert-butyl Ether	5.00	73	1861	0.274	ug/l #	54
25) 2-Butanone	6.81	43	979	0.750	ug/l #	49
31) Cyclohexane	7.65	56	4215	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15625	5.099	ug/l #	49
37) Ethyl Acetate	6.81	43	979	0.337	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18723	6.276	ug/l #	16
51) 4-Methyl-2-Pentanone	10.08	43	1910	0.663	ug/l #	1
52) Toluene	10.14	92	9534	1.702	ug/l	97
68) m/p-Xylenes	11.61	106	832	0.202	ug/l #	57
70) Styrene	12.16	104	3609	0.559	ug/l #	1
71) Bromoform	12.14	173	686	0.429	ug/l #	29
73) Isopropylbenzene	12.17	105	25140	2.442	ug/l #	72
74) N-amyl acetate	12.02	43	1126	0.250	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	77392	25.395	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77392	70.103	ug/l #	8
87) 1,3-Dichlorobenzene	13.27	146	279	Below Cal	#	67
88) 1,4-Dichlorobenzene	13.35	146	356	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.34	75	256	0.404	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	479	0.259	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.31	180	454	Below Cal	#	77

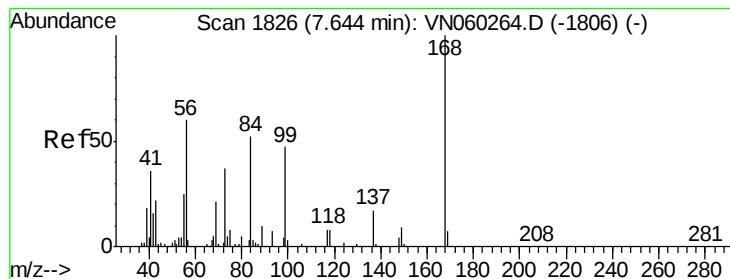
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampled :

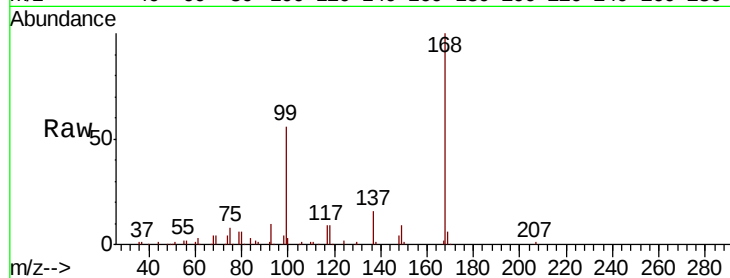
N38129

Tot Ion:168 Resp: 194922

Ion Ratio Lower Upper

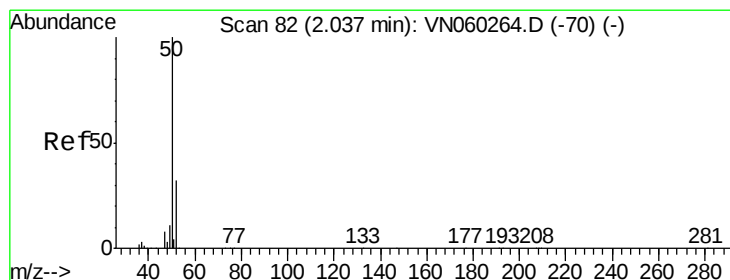
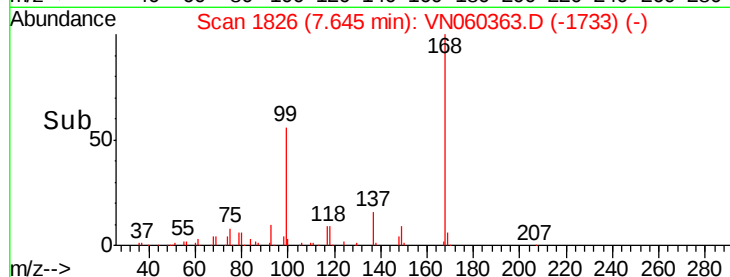
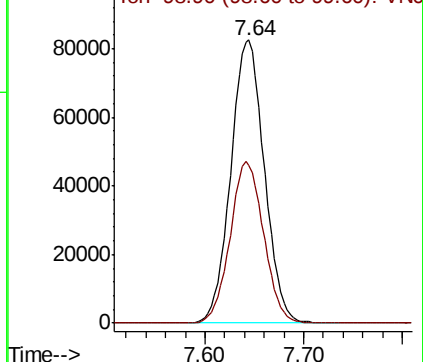
168 100

99 56.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.307 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060363.D

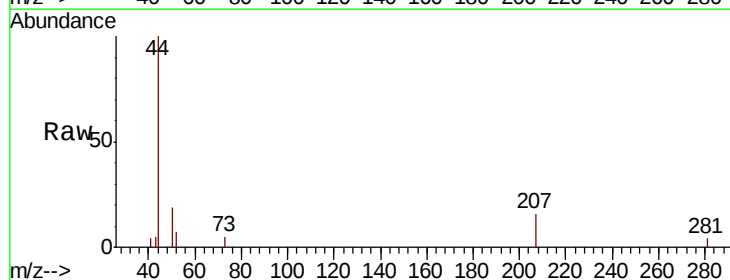
Acq: 5 Mar 2020 13:44

Tgt Ion: 50 Resp: 956

Ion Ratio Lower Upper

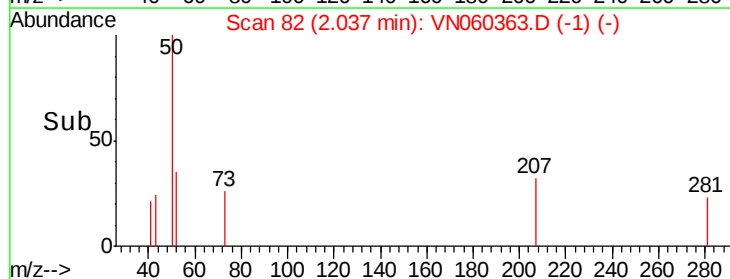
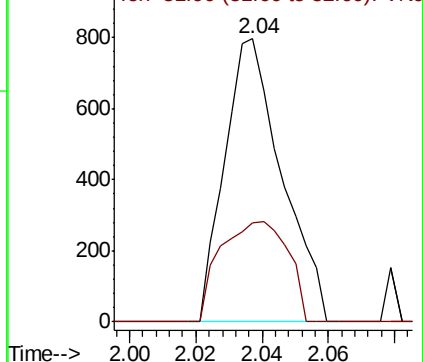
50 100

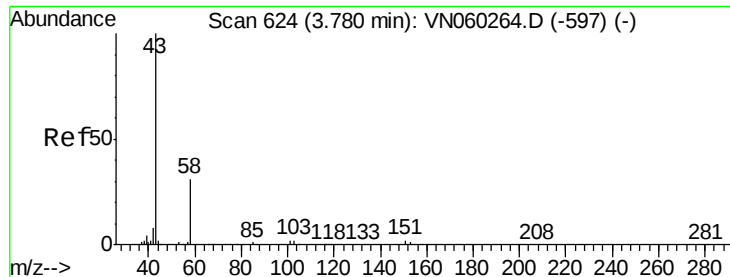
52 35.0 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 6.636 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampled :

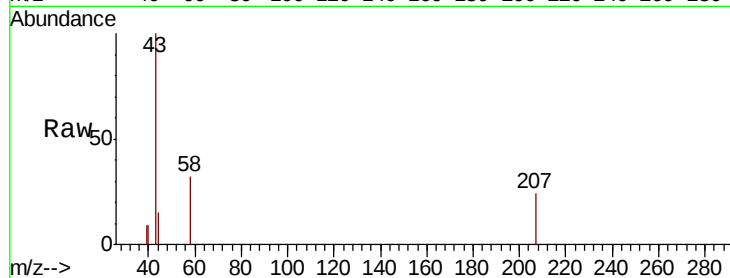
N38129

Tot Ion: 43 Resp: 5359

Ion Ratio Lower Upper

43 100

58 32.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)

3.79

2000

1500

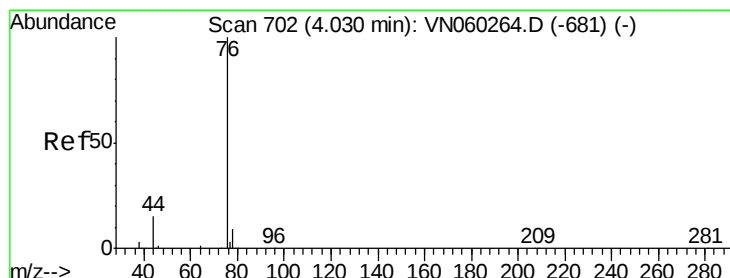
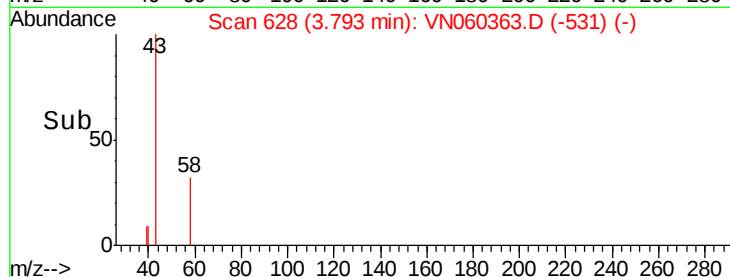
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060363.D

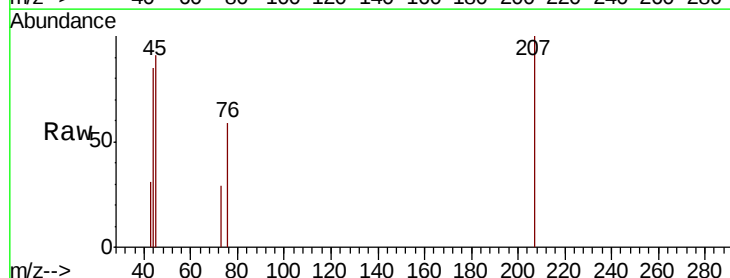
Acq: 5 Mar 2020 13:44

Tgt Ion: 76 Resp: 608

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)

4.03

300

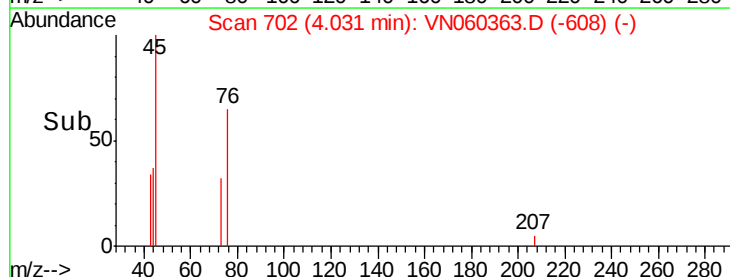
200

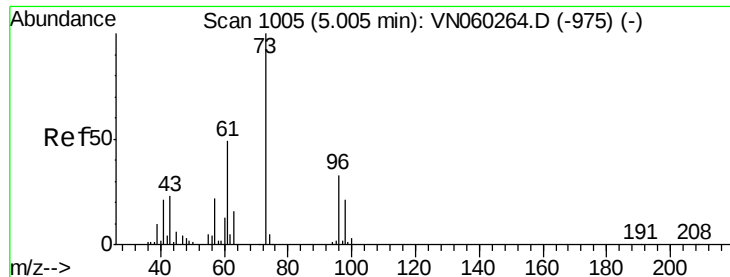
100

0

3.98 4.00 4.02 4.04 4.06

Time-->

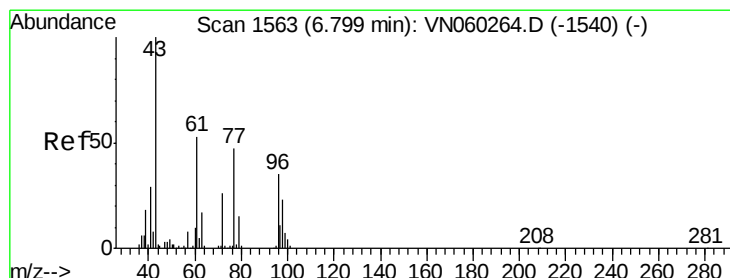
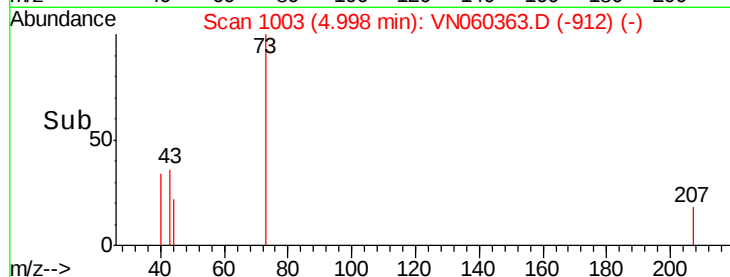
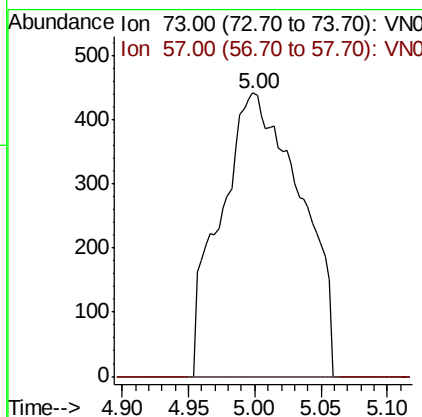
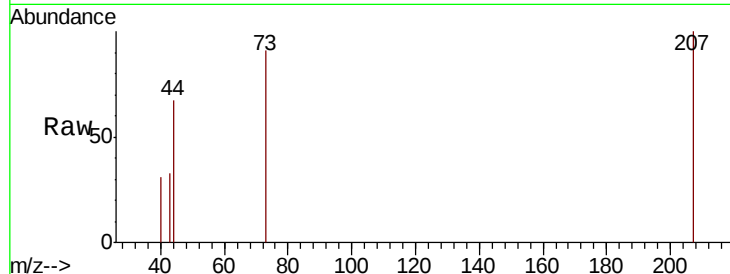




#19
Methvl tert-butvl Ether
Concen: 0.274 ug/l
RT: 5.00 min Scan# 1003
Delta R.T. -0.01 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

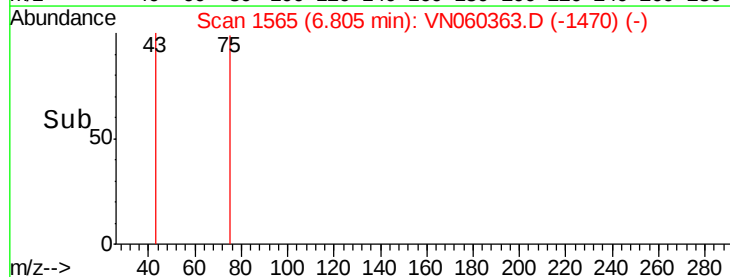
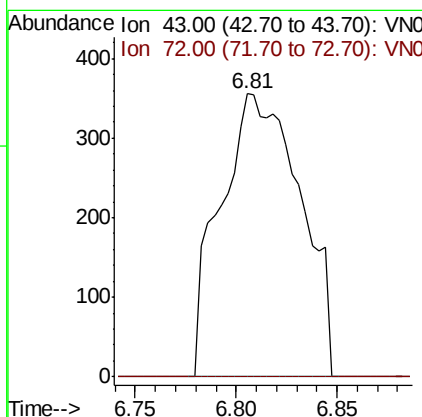
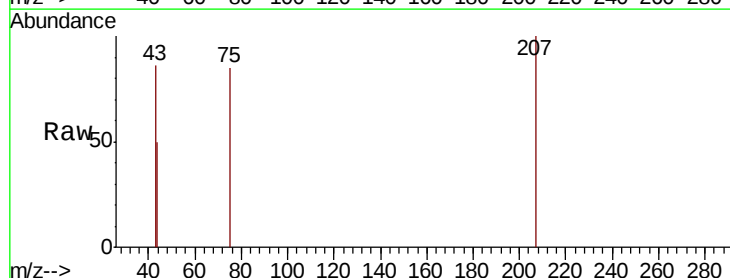
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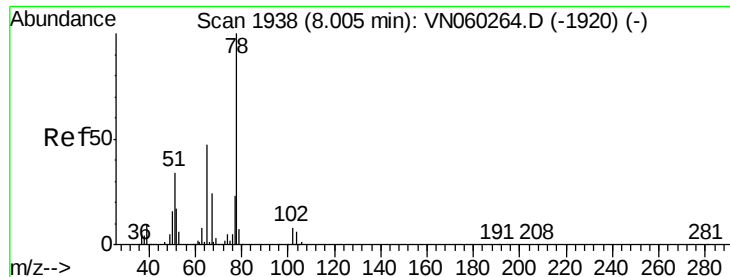
Tot Ion: 73 Resp: 1861
Ion Ratio Lower Upper
73 100
57 0.0 17.3 25.9#



#25
2-Butanone
Concen: 0.750 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

Tgt Ion: 43 Resp: 979
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#

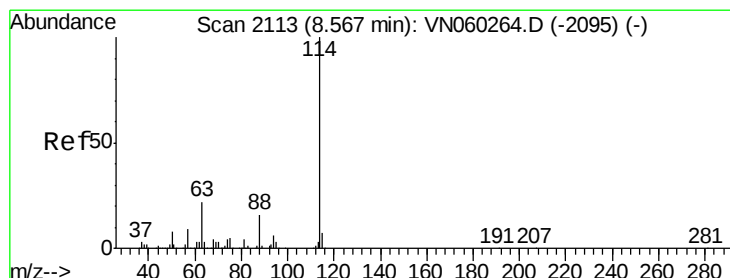
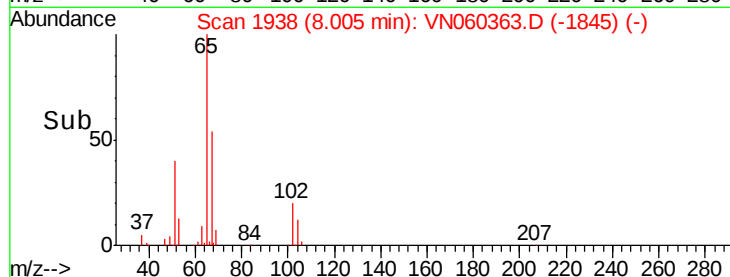
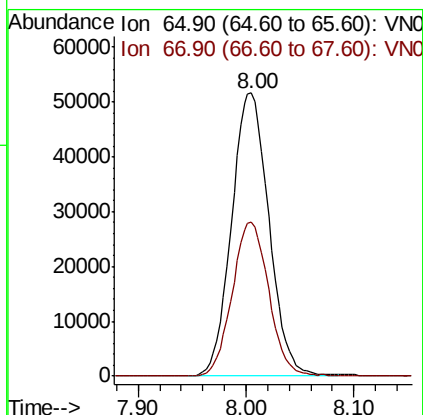
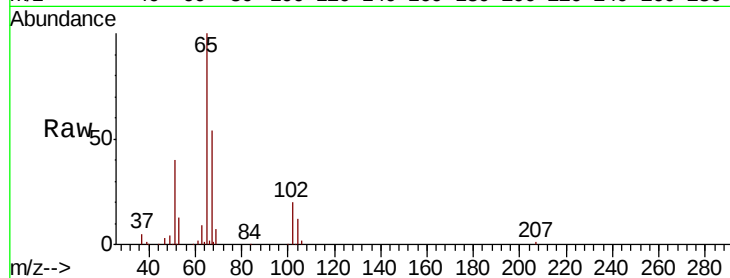




#33
 1,2-Dichloroethane-d4
 Concen: 49.789 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060363.D
 Acq: 5 Mar 2020 13:44

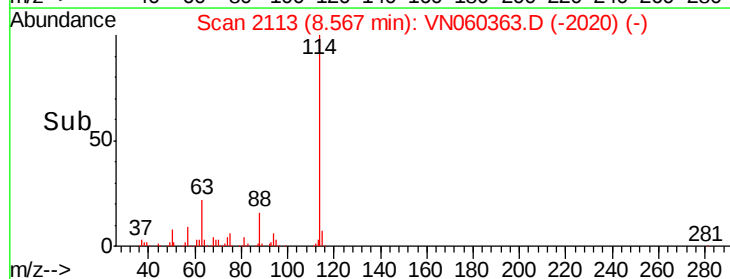
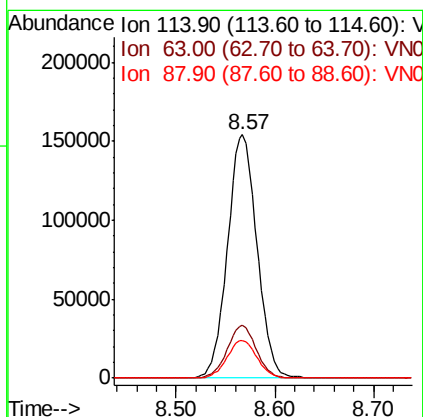
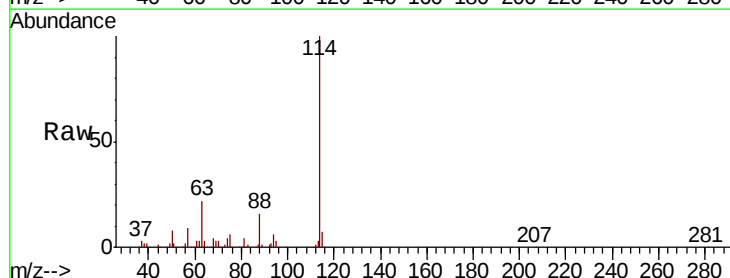
Instrument :
 MSVOA_N
 ClientSampleId :
 N38129

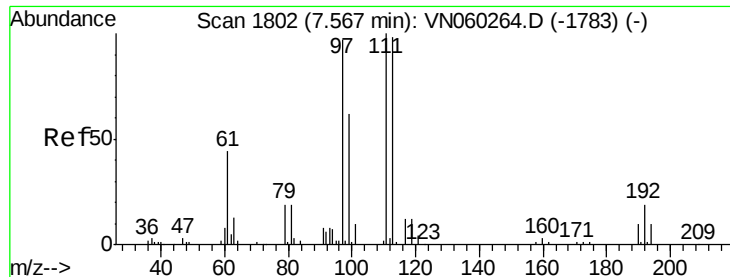
Tot Ion: 65 Resp: 124516
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060363.D
 Acq: 5 Mar 2020 13:44

Tgt Ion: 114 Resp: 321528
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 15.6 0.0 31.6

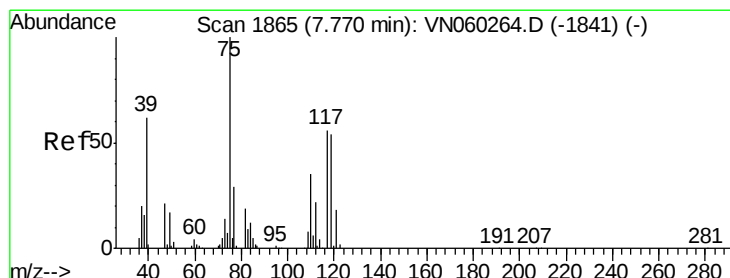
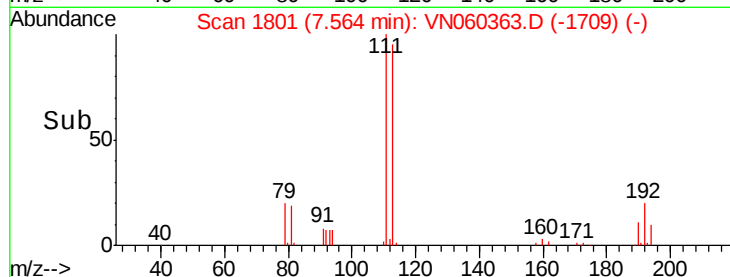
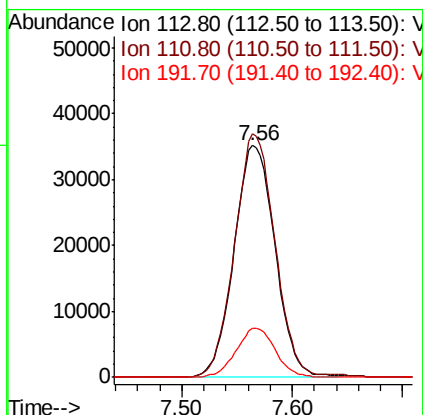
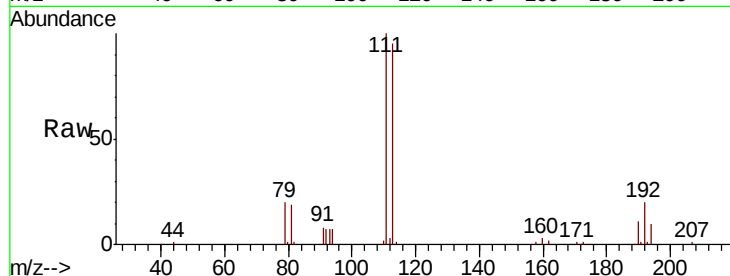




#35
 Dibromofluoromethane
 Concen: 60.810 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060363.D
 Acq: 5 Mar 2020 13:44

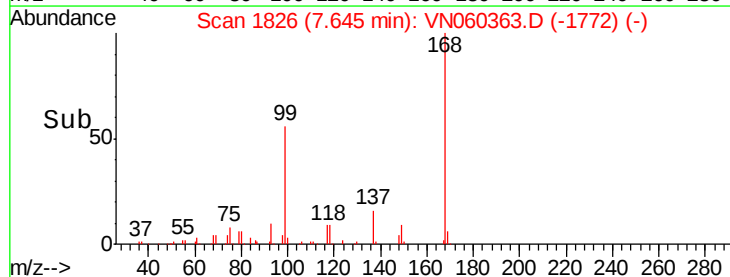
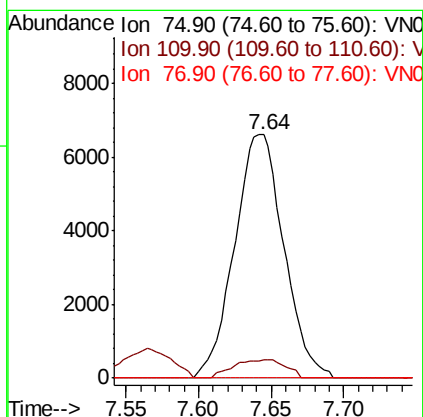
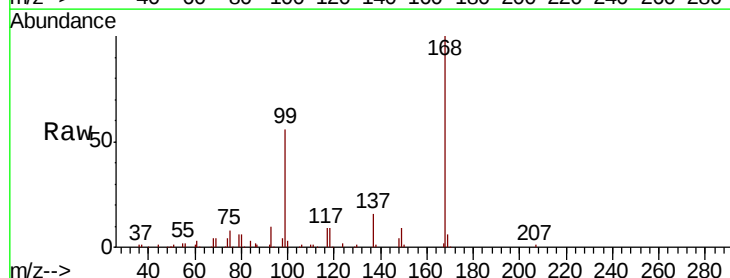
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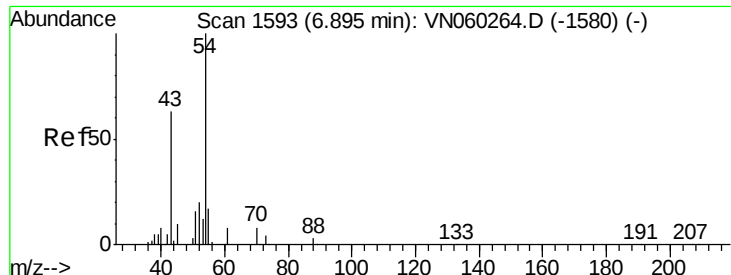
Tot Ion:113 Resp: 90754
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 20.2 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.099 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060363.D
 Acq: 5 Mar 2020 13:44

Tgt Ion: 75 Resp: 15625
 Ion Ratio Lower Upper
 75 100
 110 8.0 17.3 52.0#
 77 0.0 24.2 36.2#

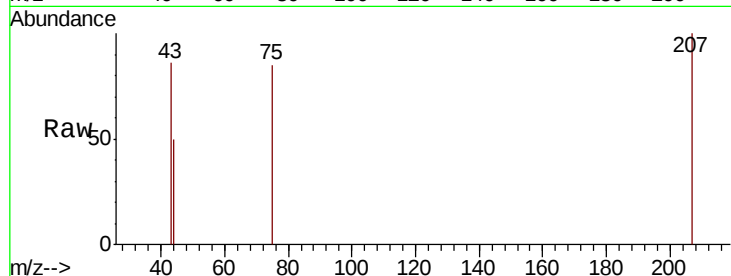




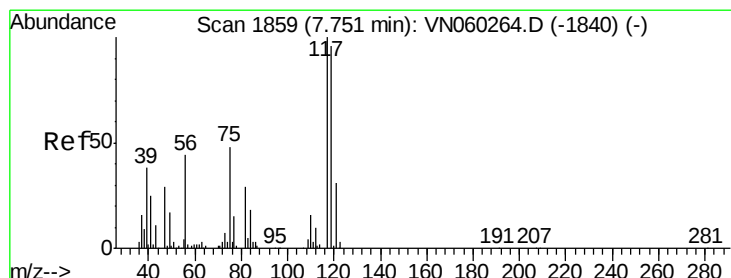
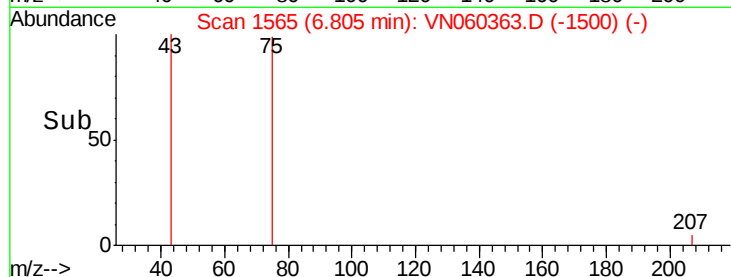
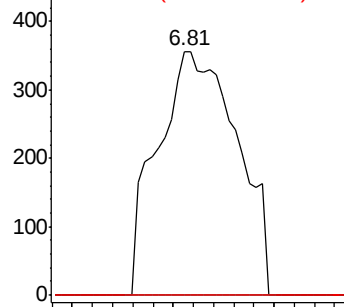
#37
Ethyl Acetate
Concen: 0.337 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

Instrument :
MSVOA_N
ClientSampleId :
N38129

Tot Ion: 43 Resp: 979
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

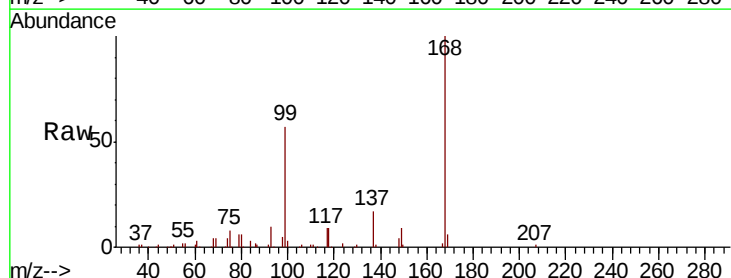


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

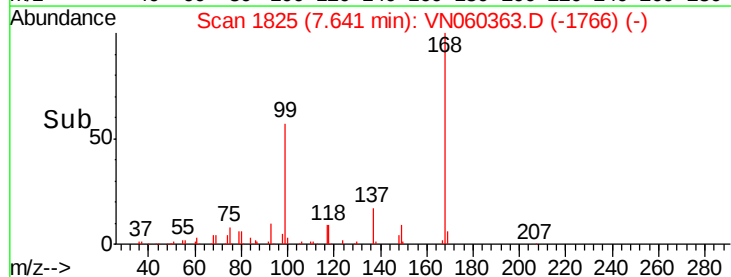
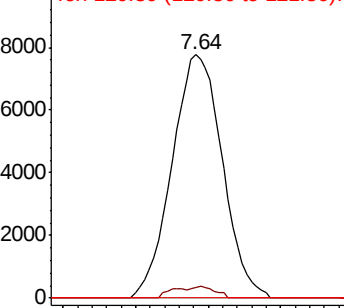


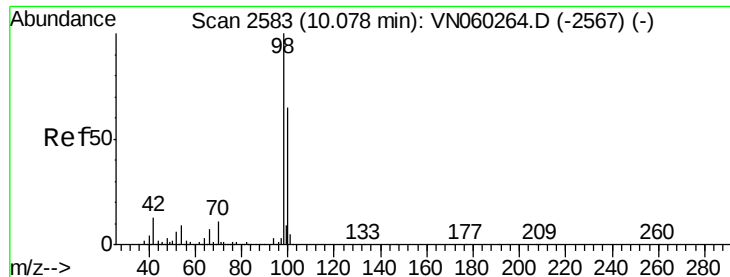
#38
Carbon Tetrachloride
Concen: 6.276 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

Tgt Ion: 117 Resp: 18723
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





#50

Toluene-d8

Concen: 52.000 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

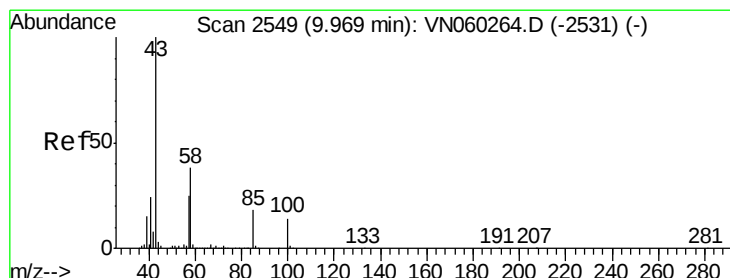
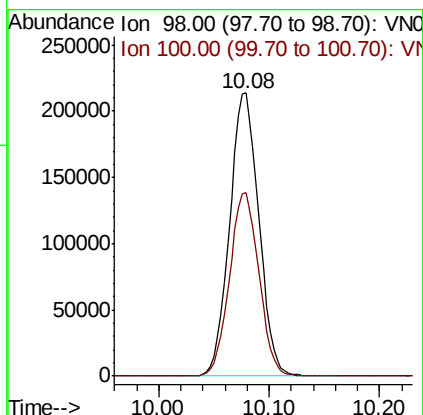
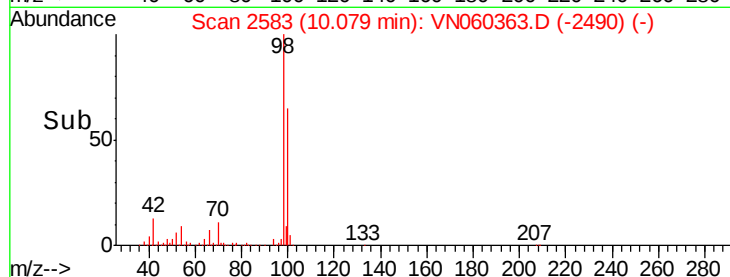
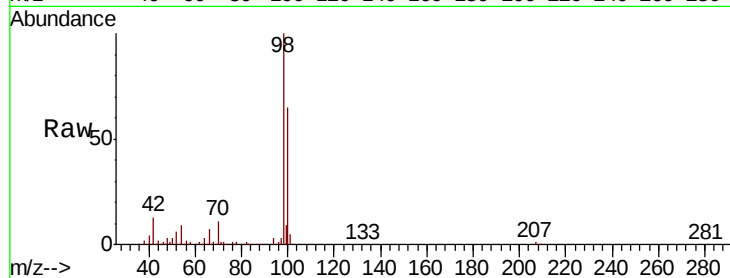
N38129

Tot Ion: 98 Resp: 392772

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 0.663 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.11 min

Lab File: VN060363.D

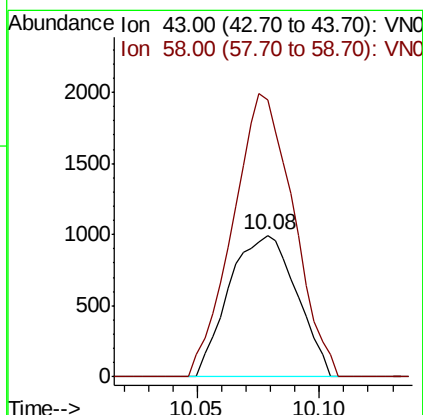
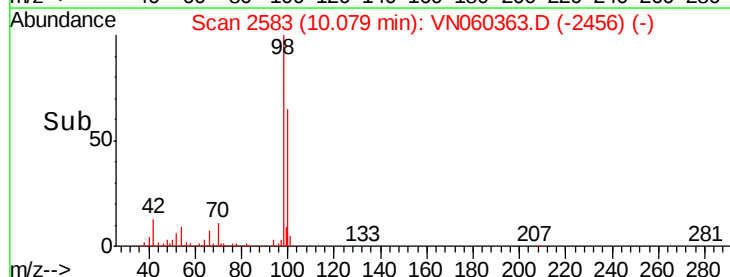
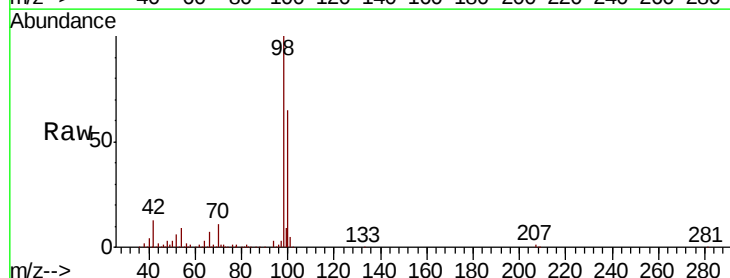
Acq: 5 Mar 2020 13:44

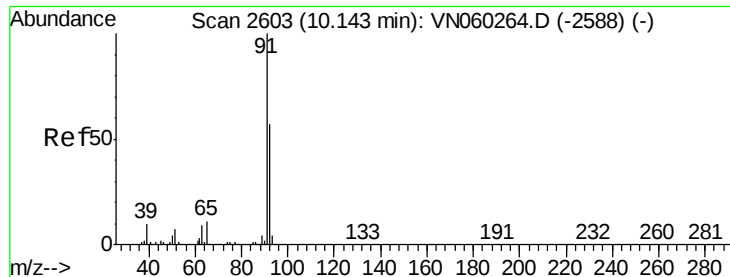
Tgt Ion: 43 Resp: 1910

Ion Ratio Lower Upper

43 100

58 179.7 30.9 46.3#





#52

Toluene

Concen: 1.702 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampled :

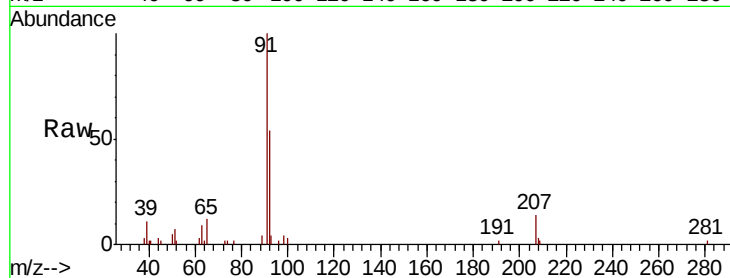
N38129

Tot Ion: 92 Resp: 9534

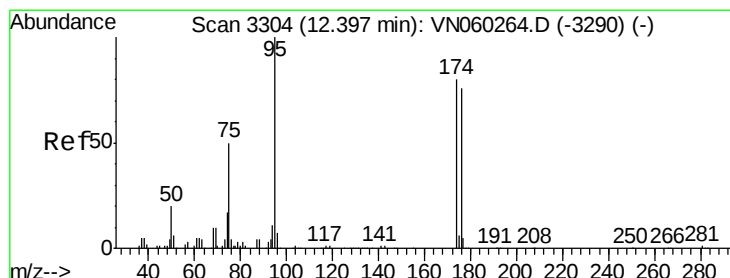
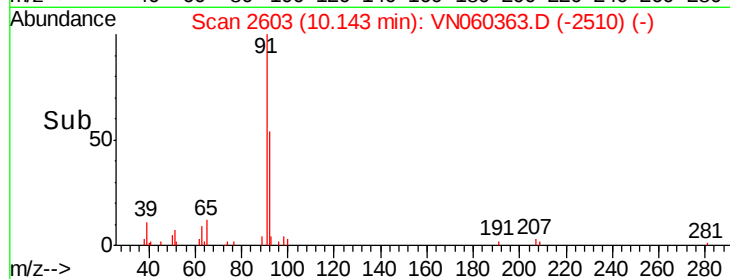
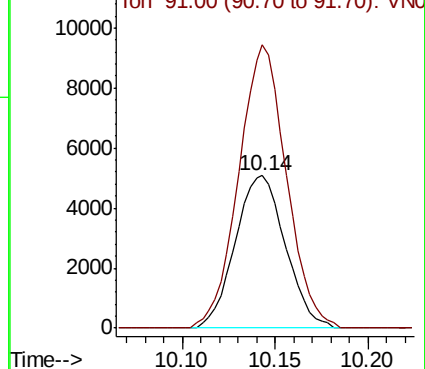
Ion Ratio Lower Upper

92 100

91 177.0 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN060363.D (-2510) (-)



#62

4-Bromofluorobenzene

Concen: 52.358 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

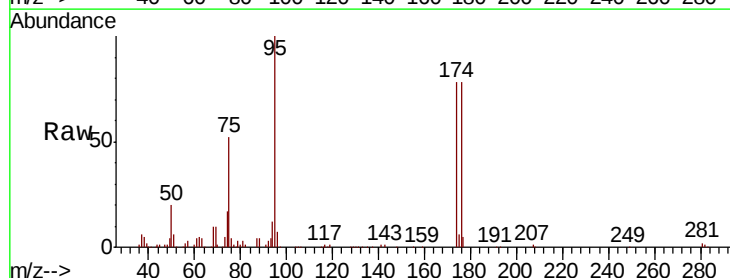
Tgt Ion: 95 Resp: 149917

Ion Ratio Lower Upper

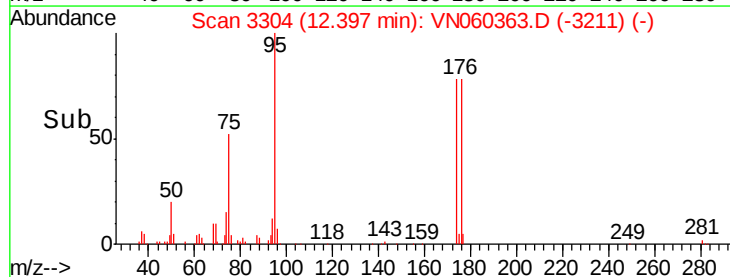
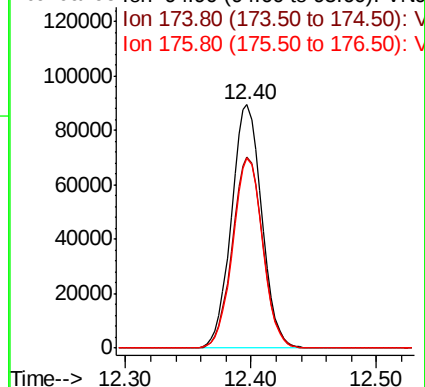
95 100

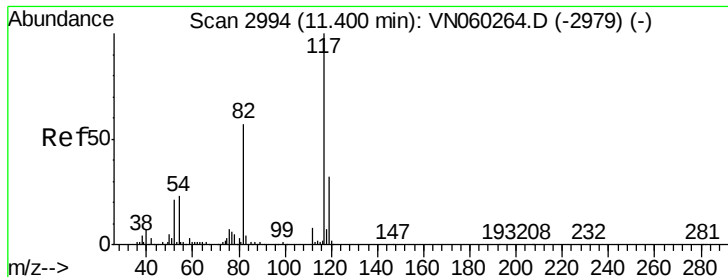
174 78.9 0.0 159.2

176 76.9 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060363.D (-3211) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampled :

N38129

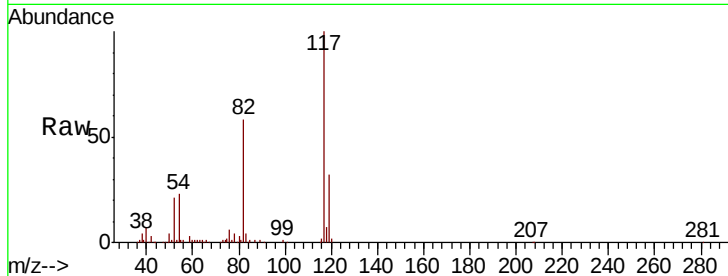
Tot Ion:117 Resp: 296935

Ion Ratio Lower Upper

117 100

82 57.6 45.8 68.6

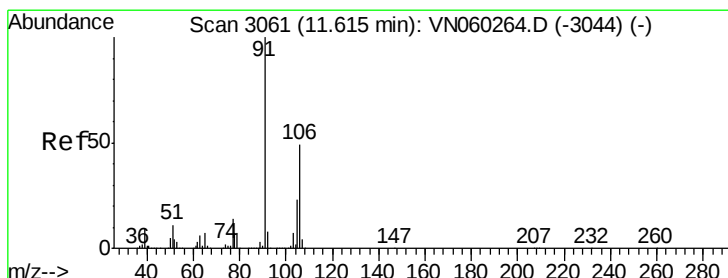
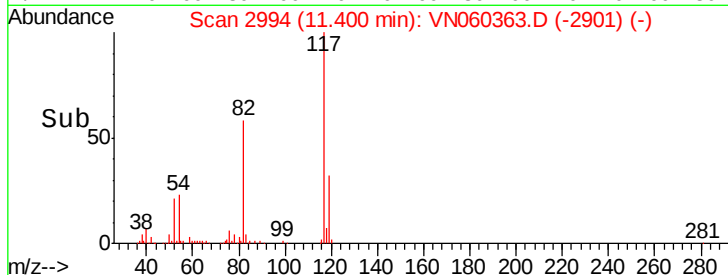
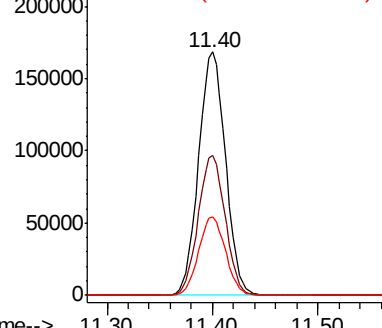
119 32.2 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#68

m/p-Xylenes

Concen: 0.202 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.00 min

Lab File: VN060363.D

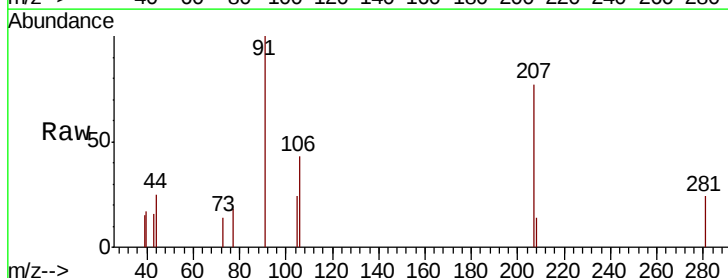
Acq: 5 Mar 2020 13:44

Tgt Ion:106 Resp: 832

Ion Ratio Lower Upper

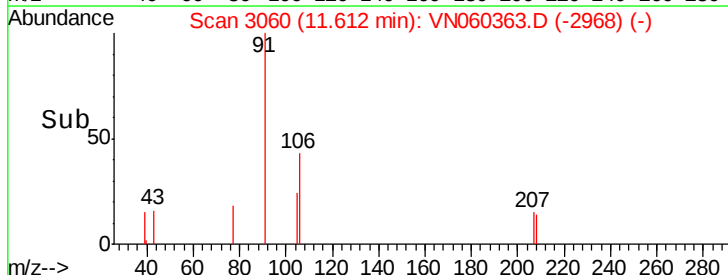
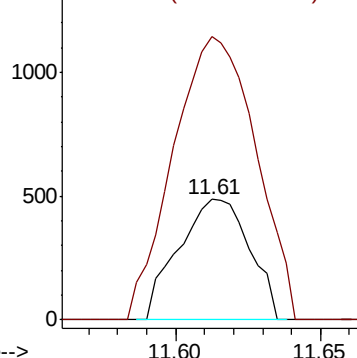
106 100

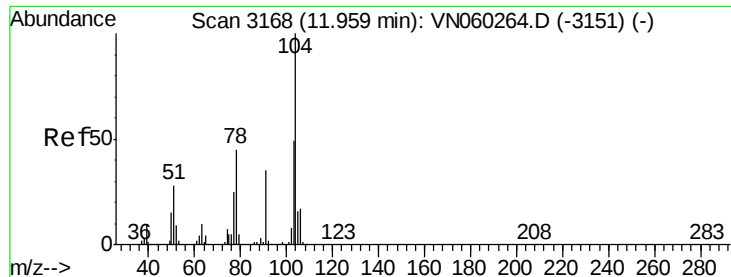
91 271.8 164.5 246.7#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

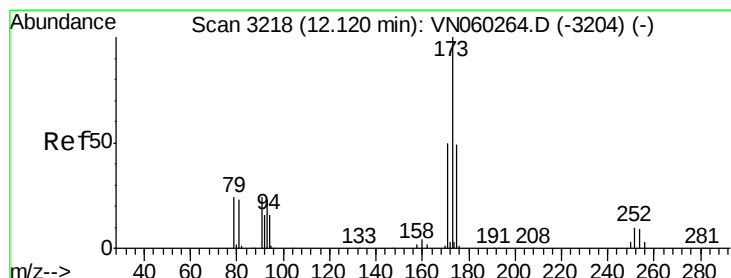
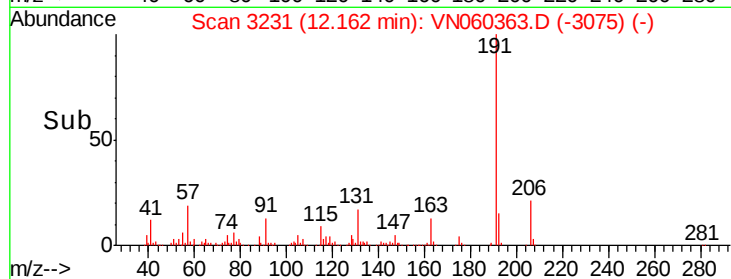
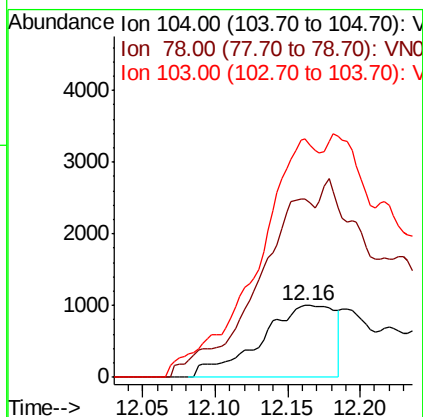
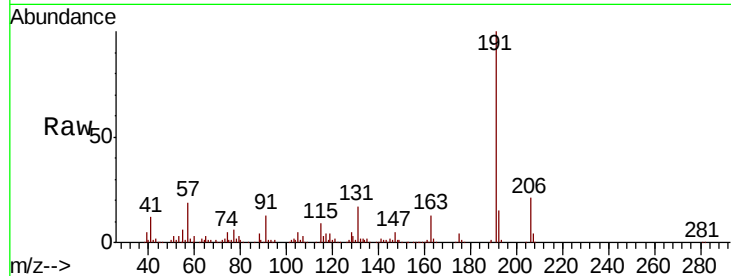




#70
Stvrene
Concen: 0.559 ug/l
RT: 12.16 min Scan# 3231
Delta R.T. 0.20 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

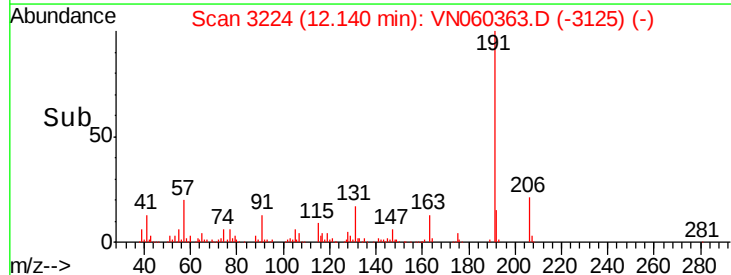
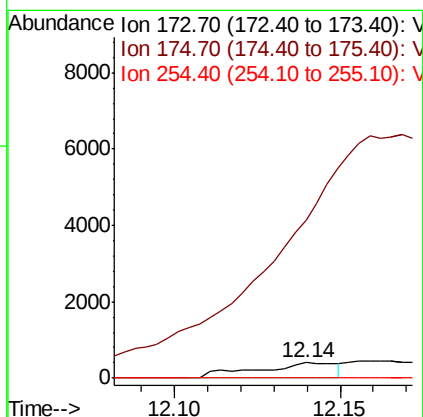
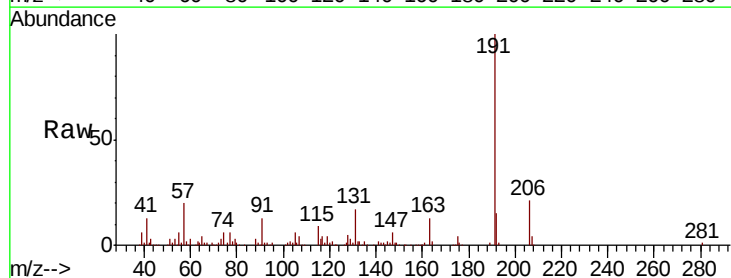
Instrument :
MSVOA_N
ClientSampleId :
N38129

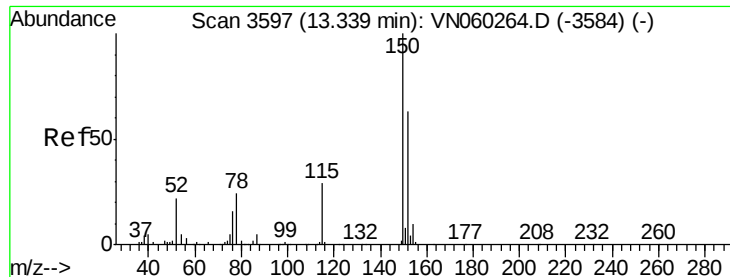
Tot Ion:104 Resp: 3609
Ion Ratio Lower Upper
104 100
78 194.9 41.2 61.8#
103 270.4 43.9 65.9#



#71
Bromoform
Concen: 0.429 ug/l
RT: 12.14 min Scan# 3224
Delta R.T. 0.02 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

Tgt Ion:173 Resp: 686
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.2#
254 0.0 0.0 0.0



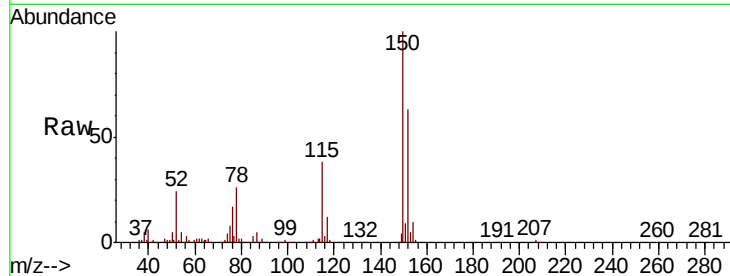


#72

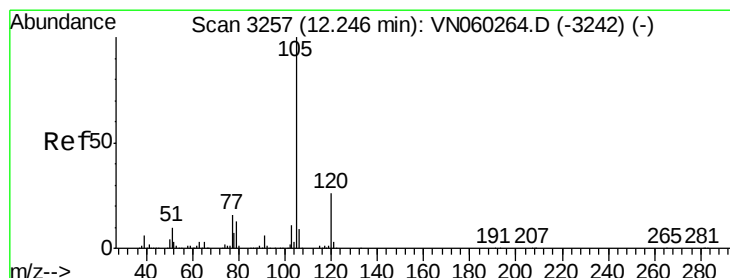
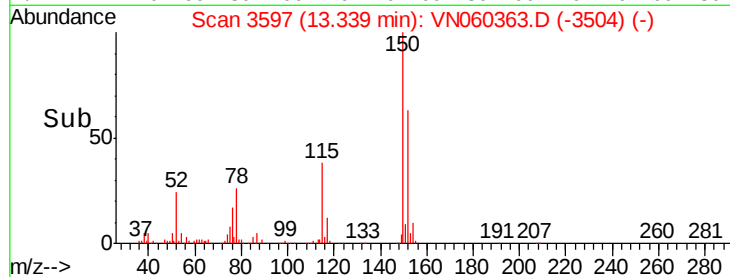
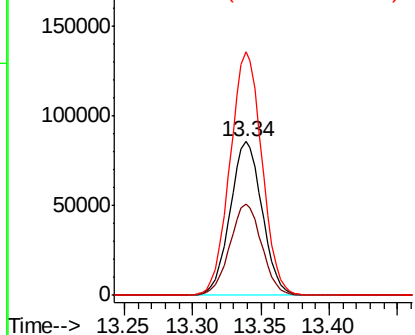
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

Instrument :
MSVOA_N
ClientSampleId :
N38129

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.0	90.0
150	158.8	0.0	349.6



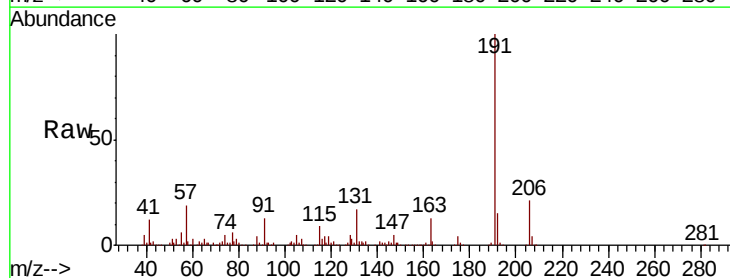
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



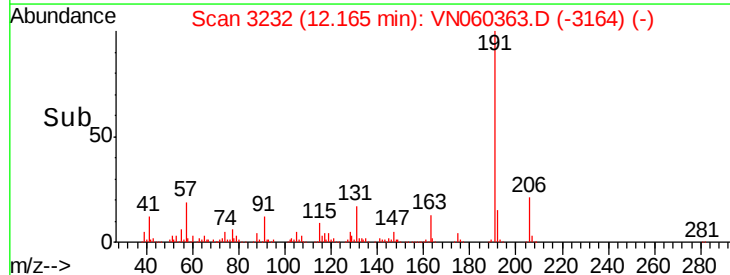
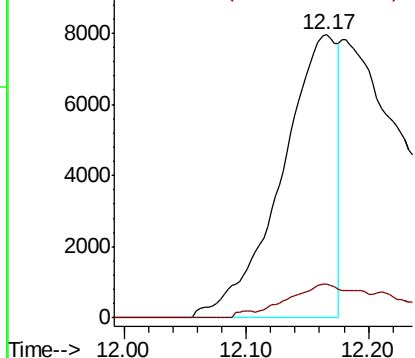
#73

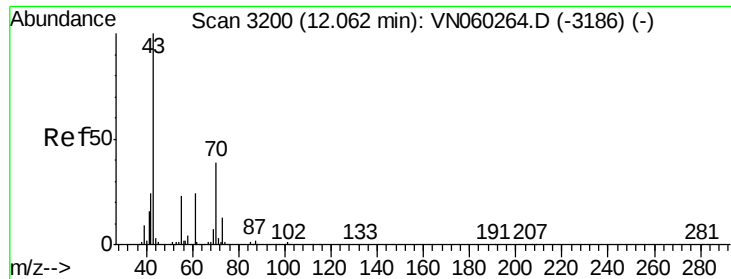
Isopropylbenzene
Concen: 2.442 ug/l
RT: 12.17 min Scan# 3232
Delta R.T. -0.08 min
Lab File: VN060363.D
Acq: 5 Mar 2020 13:44

Tgt Ion	Ratio	Lower	Upper
105	100		
120	11.9	13.0	38.9#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.250 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

N38129

Tot Ion: 43 Resp: 1126

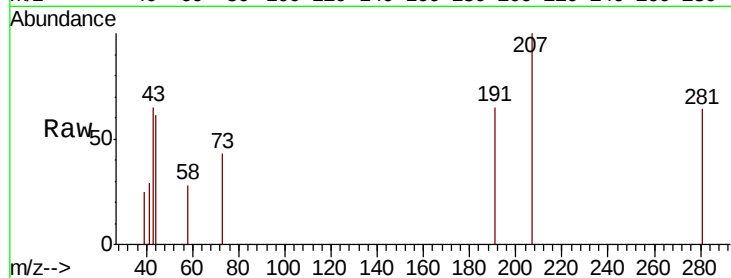
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

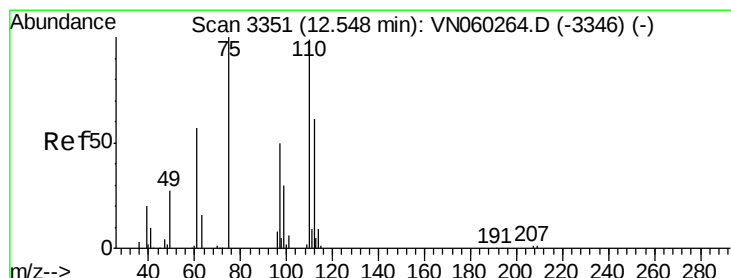
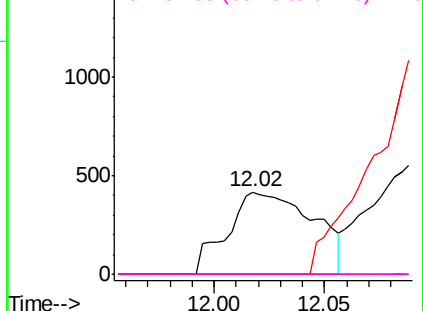
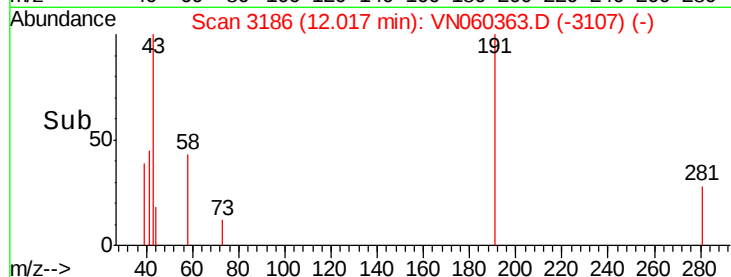


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.395 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060363.D

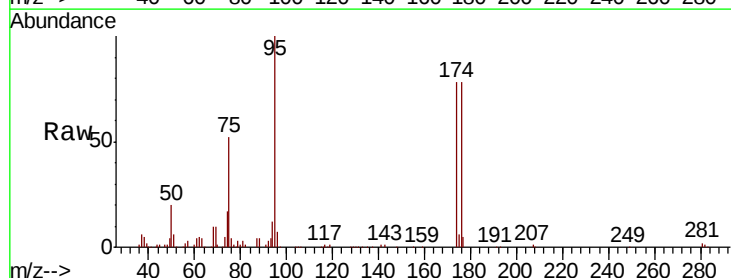
Acq: 5 Mar 2020 13:44

Tgt Ion: 75 Resp: 77392

Ion Ratio Lower Upper

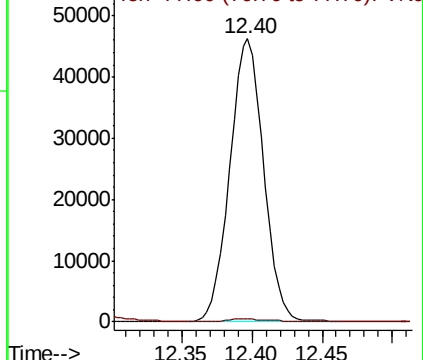
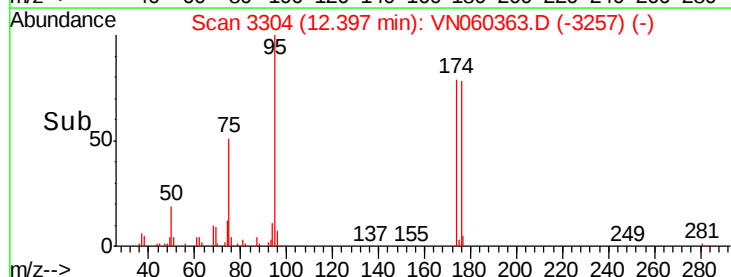
75 100

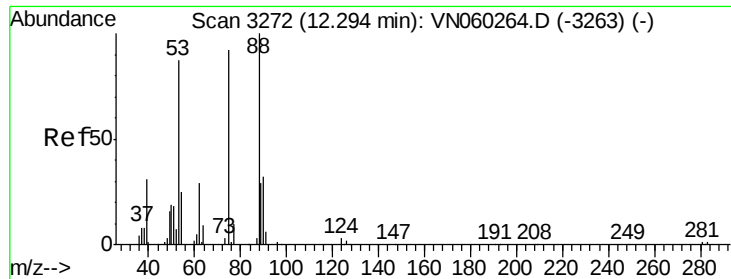
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.103 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

N38129

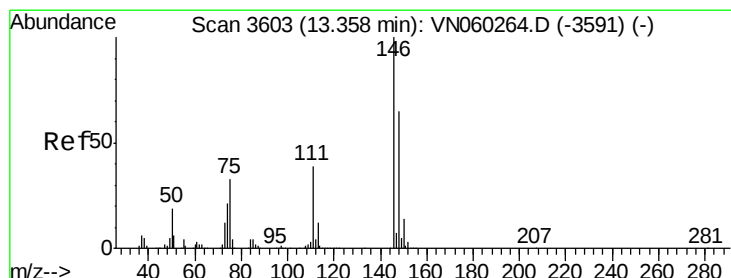
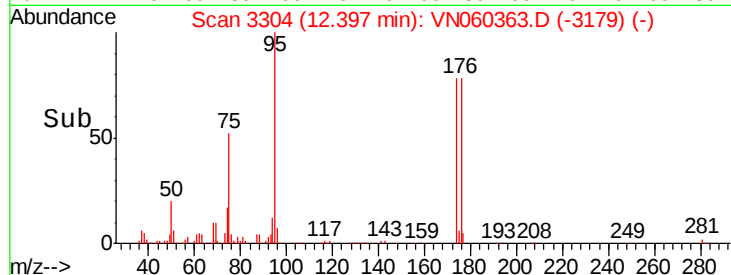
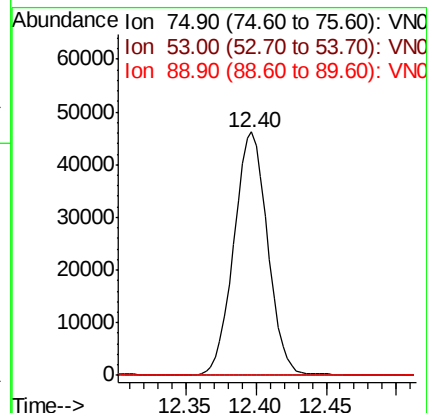
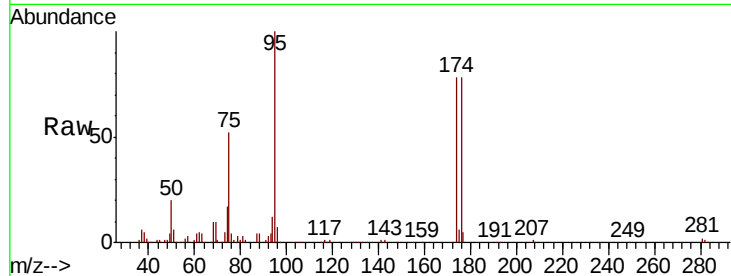
Tot Ion: 75 Resp: 77392

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# 3601

Delta R.T. -0.01 min

Lab File: VN060363.D

Acq: 5 Mar 2020 13:44

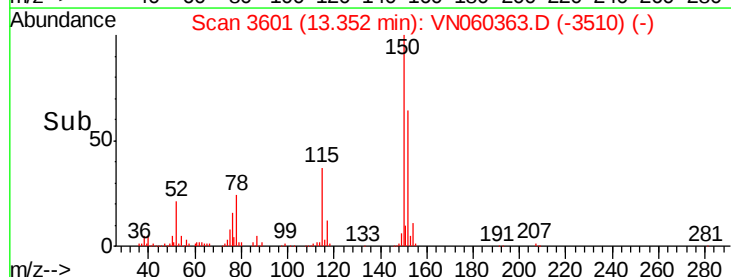
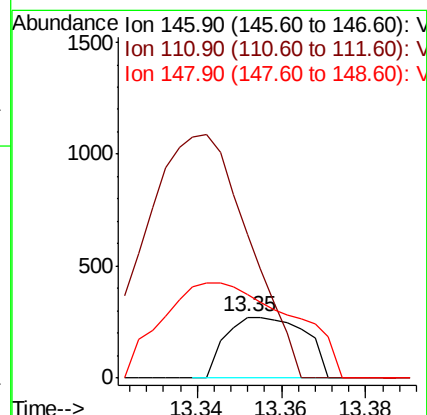
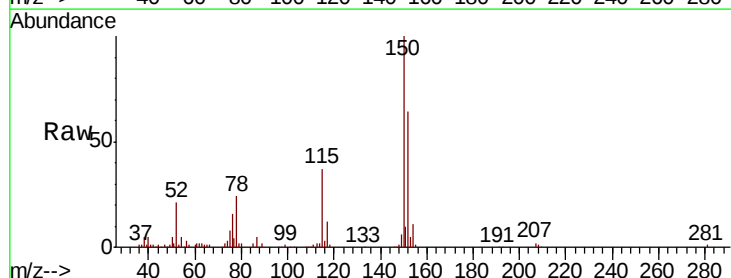
Tgt Ion: 146 Resp: 356

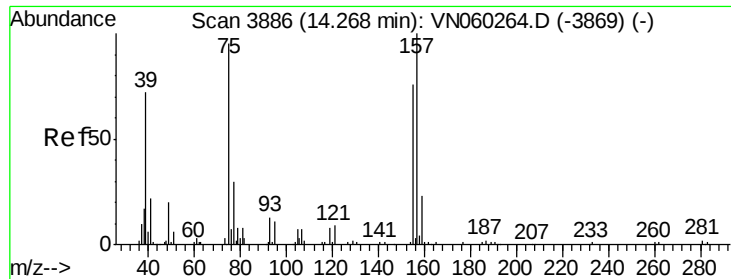
Ion Ratio Lower Upper

146 100

111 516.6 19.8 59.4#

148 253.1 32.3 96.9#

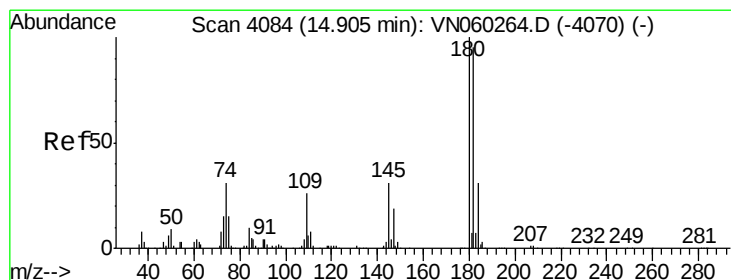
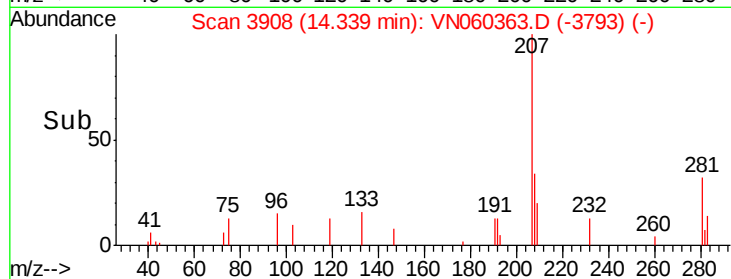
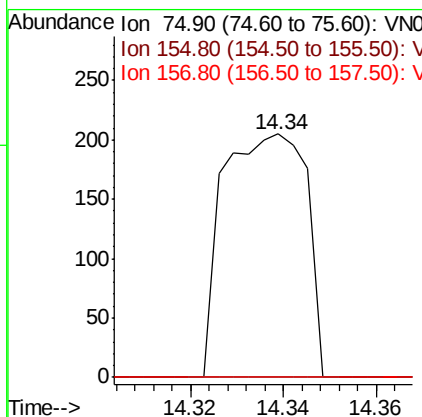
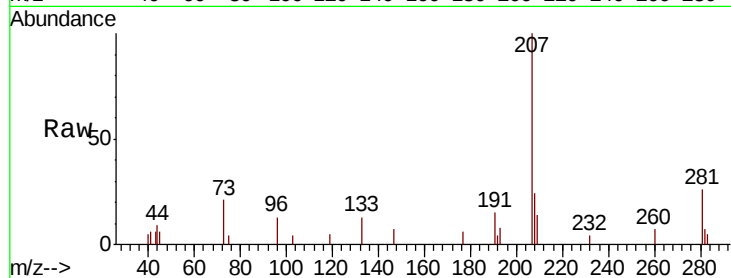




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.404 ug/l
 RT: 14.34 min Scan# 3908
 Delta R.T. 0.07 min
 Lab File: VN060363.D
 Acq: 5 Mar 2020 13:44

Instrument :
 MSVOA_N
 ClientSampled :
 N38129

Tot Ion: 75 Resp: 256
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.2#
 157 0.0 52.5 157.5#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.259 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060363.D
 Acq: 5 Mar 2020 13:44

Tgt Ion: 180 Resp: 479
 Ion Ratio Lower Upper
 180 100
 182 91.6 47.8 143.3
 145 0.0 15.4 46.1#

