

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060289.D
 Acq On : 28 Feb 2020 16:57
 Operator : JC/MD
 Sample : L1373-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 29 00:38:56 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	198700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	325550	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	305017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146924	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	127597	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
35) Dibromofluoromethane	7.56	113	92921	61.49	ug/l	0.00
Spiked Amount			Recovery	=	122.98%	
50) Toluene-d8	10.08	98	400215	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
62) 4-Bromofluorobenzene	12.40	95	149580	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	

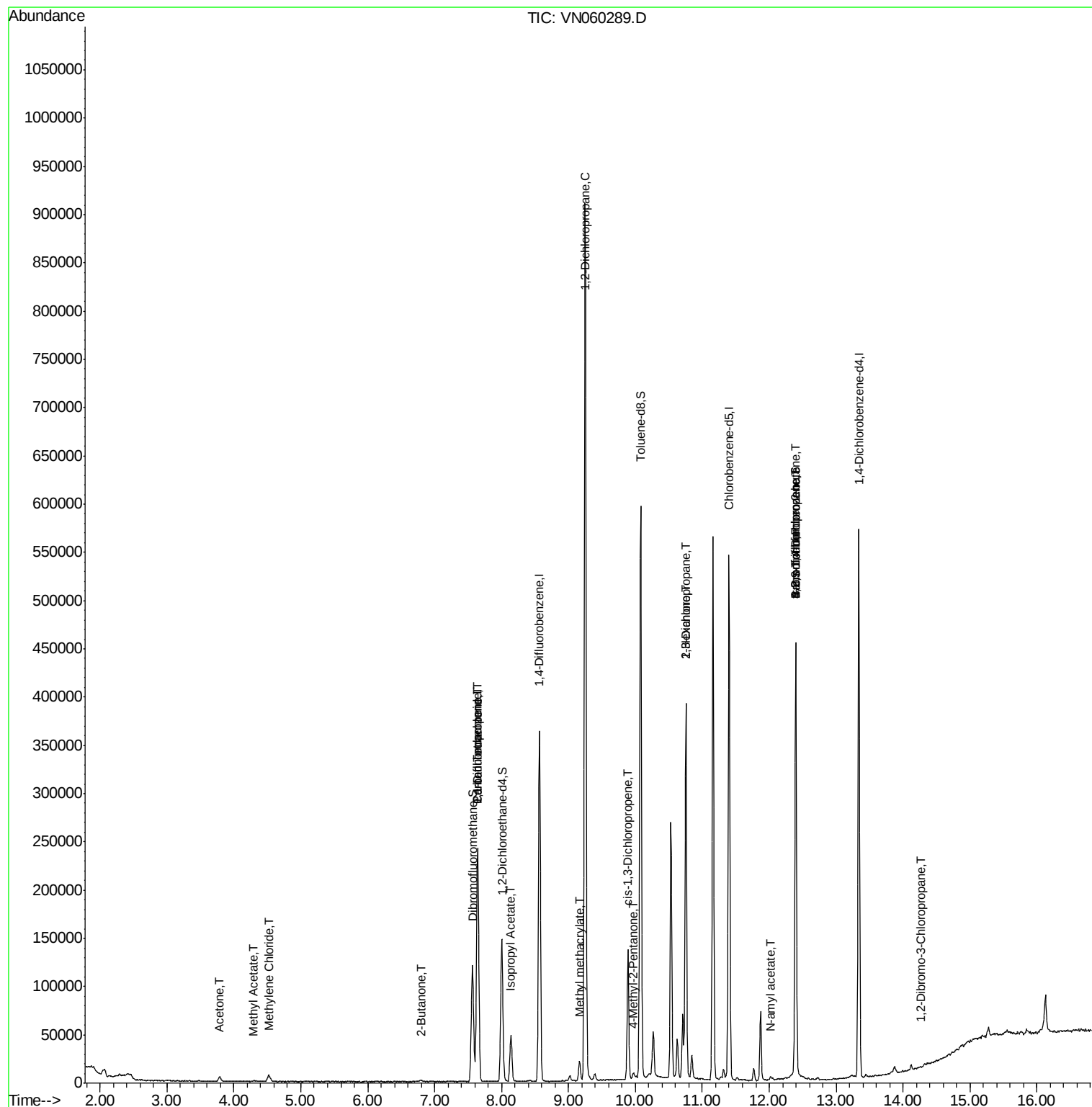
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.76	96	105	Below Cal	#	1
16) Acetone	3.79	43	8451	10.265	ug/l #	89
18) Methyl Acetate	4.29	43	1680	0.611	ug/l #	56
20) Methylene Chloride	4.52	84	5197	2.299	ug/l	96
21) trans-1,2-Dichloroethene	5.17	96	59	Below Cal	#	1
25) 2-Butanone	6.80	43	757	0.569	ug/l #	49
31) Cyclohexane	7.64	56	4410	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15473	4.987	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18578	6.150	ug/l #	16
43) Isopropyl Acetate	8.14	43	56944	11.072	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1196	0.507	ug/l #	44
48) Methyl methacrylate	9.16	41	3157	1.346	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4832	1.657	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	23894	6.040	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3743	1.006	ug/l #	42
59) 2-Hexanone	10.75	43	56002	26.156	ug/l #	51
71) Bromoform	12.40	173	459	0.280	ug/l #	1
74) N-amyl acetate	12.02	43	4002	0.841	ug/l #	44
76) 1,2,3-Trichloropropane	12.39	75	78326	24.298	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	78326	67.075	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	59	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	59	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.27	75	344	0.513	ug/l #	3
95) Naphthalene	15.13	128	598	Below Cal	#	69

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

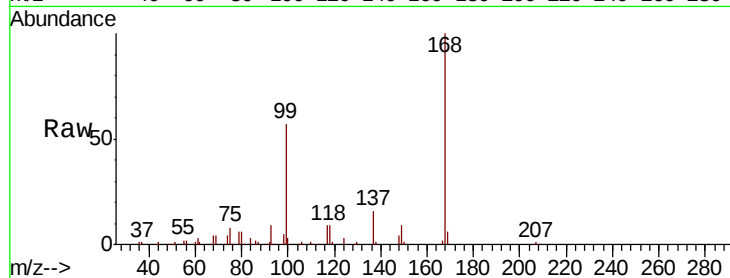
ClientSampled :

Tot Ion:168 Resp: 198700

Ion Ratio Lower Upper

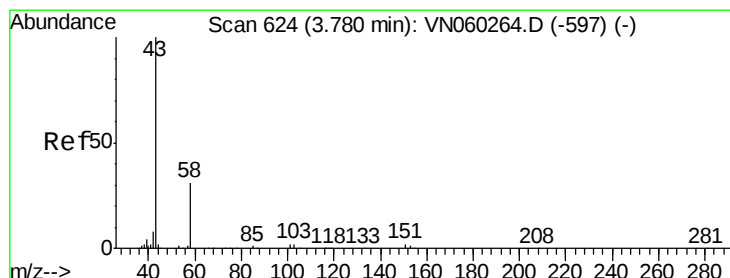
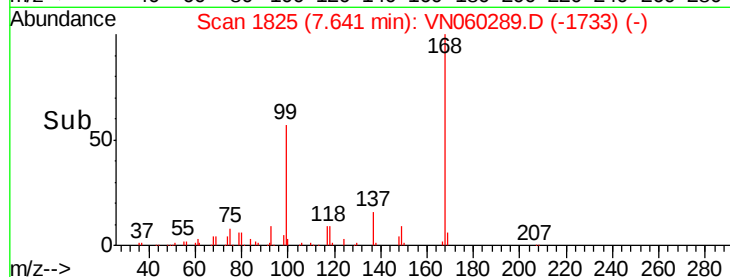
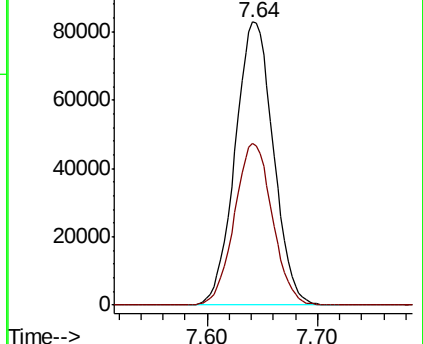
168 100

99 57.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 10.265 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060289.D

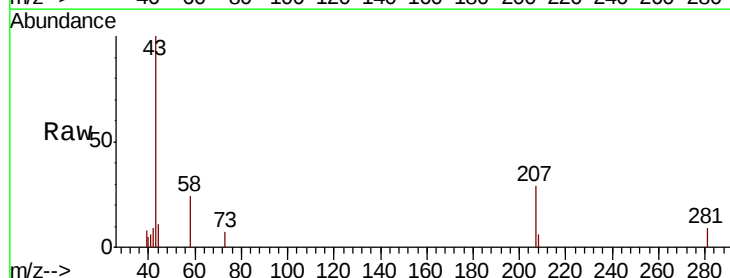
Acq: 28 Feb 2020 16:57

Tgt Ion: 43 Resp: 8451

Ion Ratio Lower Upper

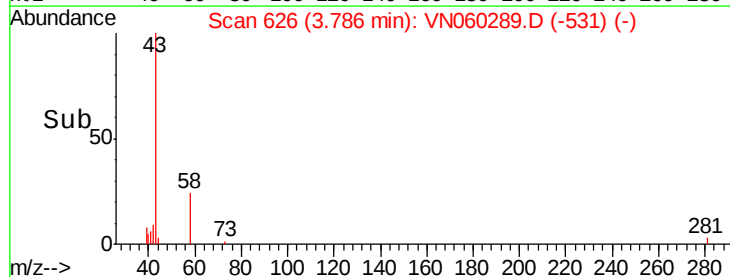
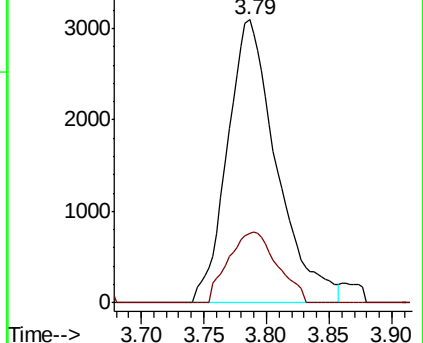
43 100

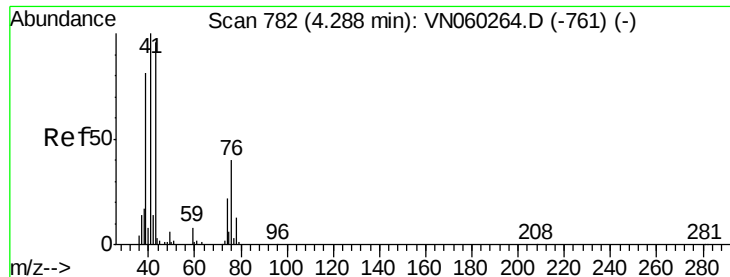
58 24.4 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

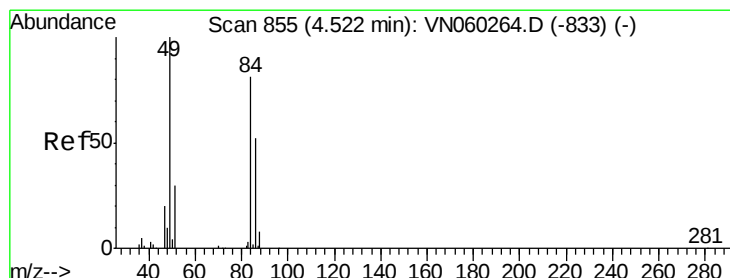
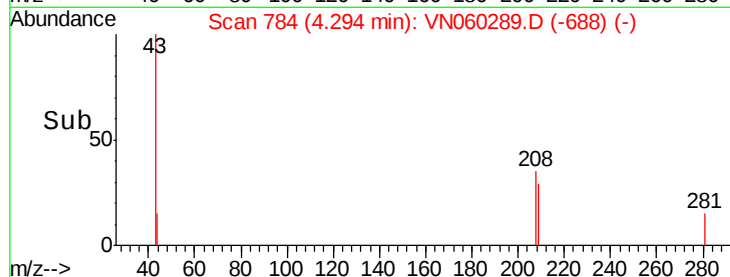
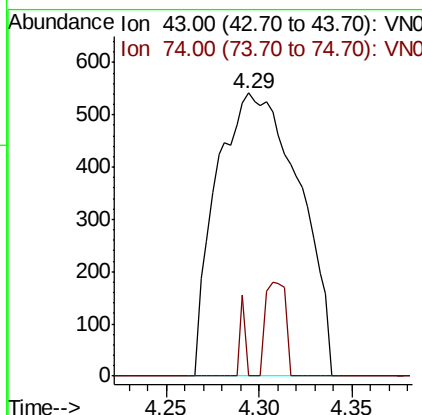
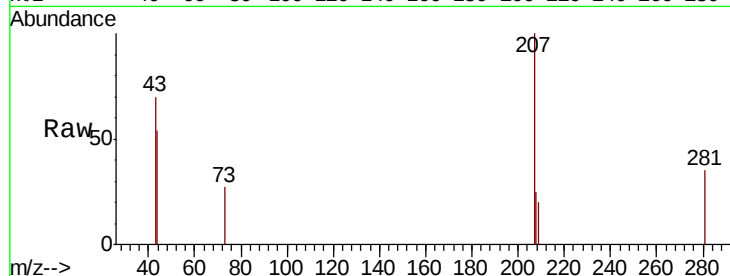




#18
Methyl Acetate
Concen: 0.611 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

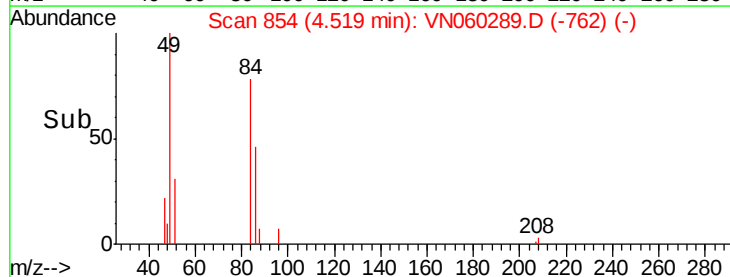
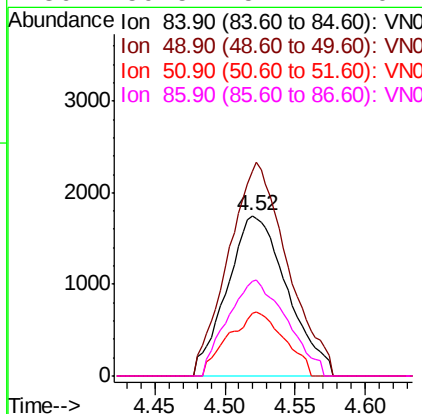
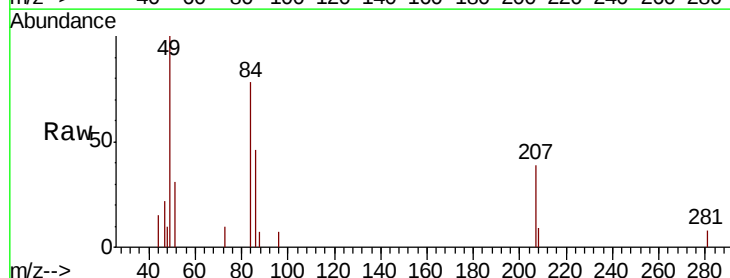
Instrument :
MSVOA_N
ClientSampled :

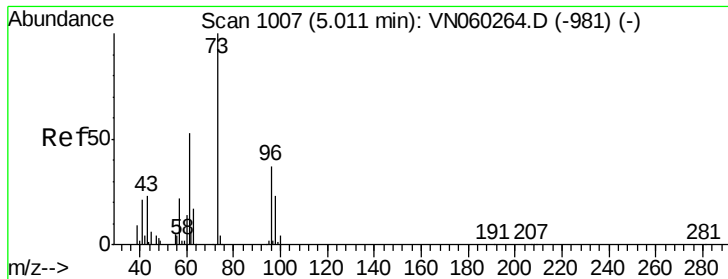
Tot Ion: 43 Resp: 1680
Ion Ratio Lower Upper
43 100
74 1.8 18.8 28.2#



#20
Methylene Chloride
Concen: 2.299 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

Tgt Ion: 84 Resp: 5197
Ion Ratio Lower Upper
84 100
49 128.0 99.3 148.9
51 39.3 30.1 45.1
86 59.5 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.17 min Scan# 1056

Delta R.T. 0.16 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

ClientSampleId :

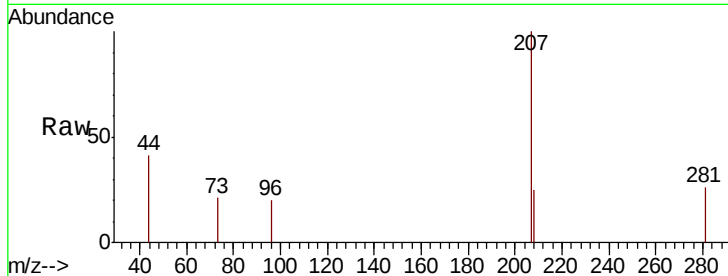
Tot Ion: 96 Resp: 59

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

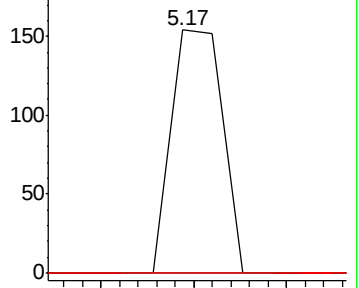
98 0.0 48.8 73.2#



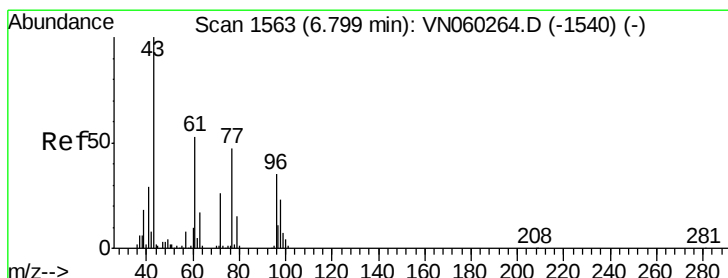
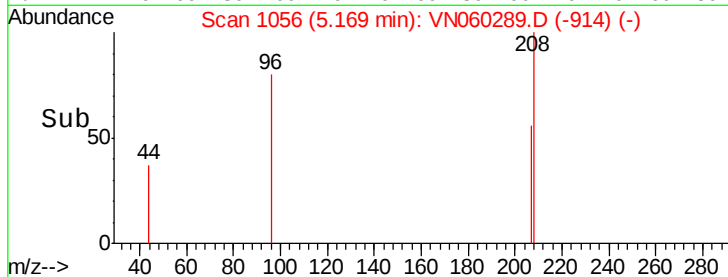
Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



Time-->



#25

2-Butanone

Concen: 0.569 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060289.D

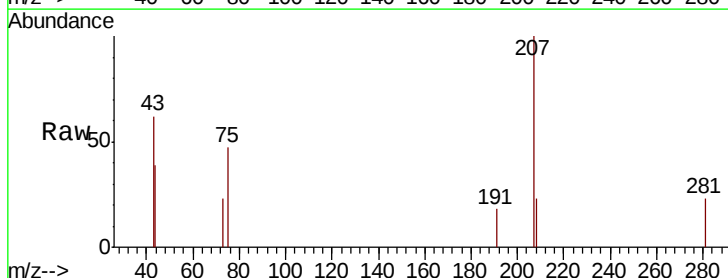
Acq: 28 Feb 2020 16:57

Tgt Ion: 43 Resp: 757

Ion Ratio Lower Upper

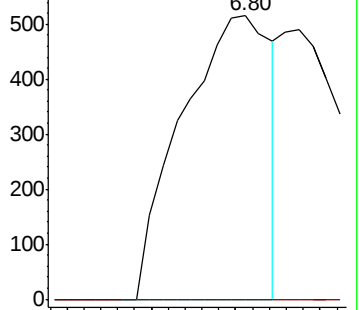
43 100

72 0.0 20.9 31.3#

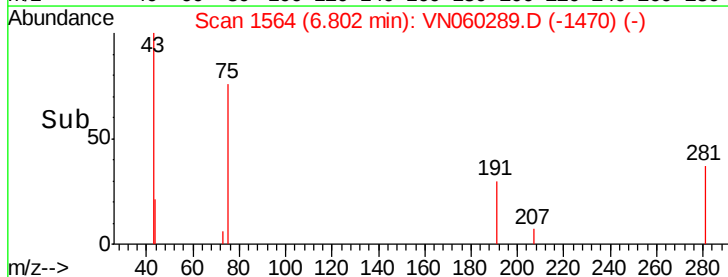


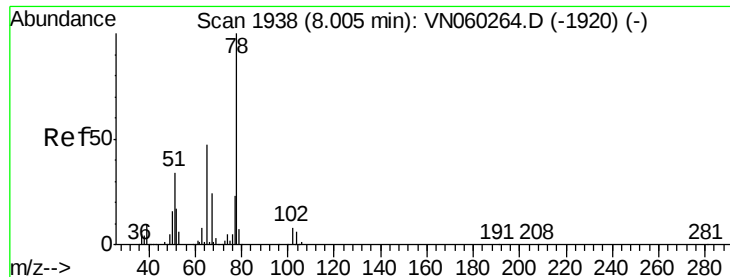
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->

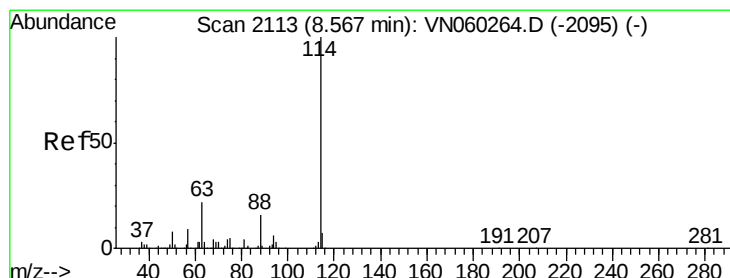
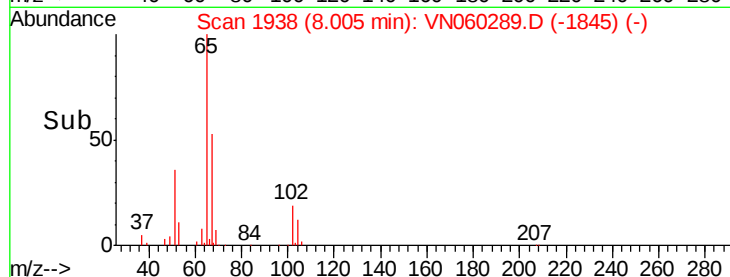
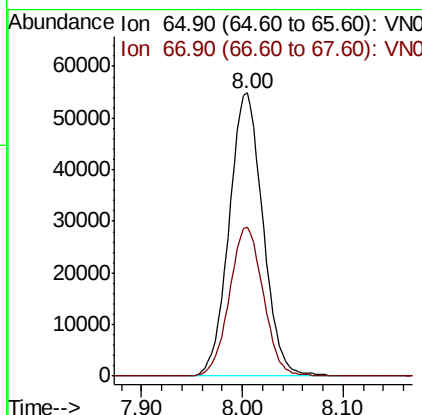
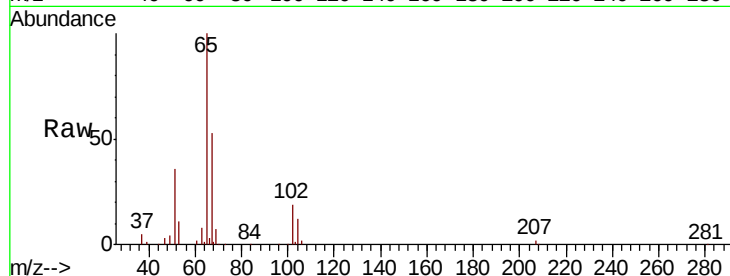




#33
 1,2-Dichloroethane-d4
 Concen: 50.051 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060289.D
 Acq: 28 Feb 2020 16:57

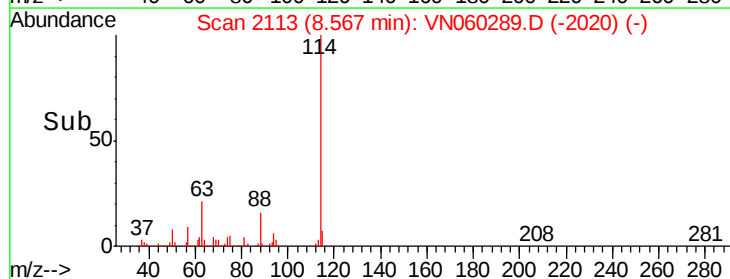
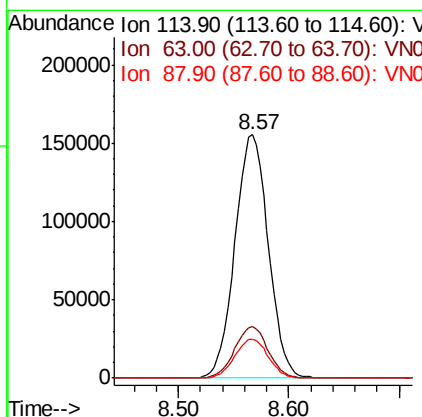
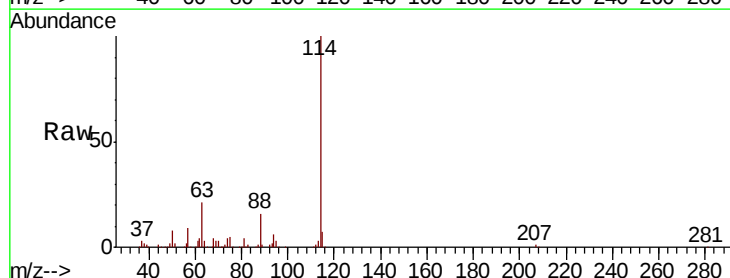
Instrument :
 MSVOA_N
 ClientSampleId :

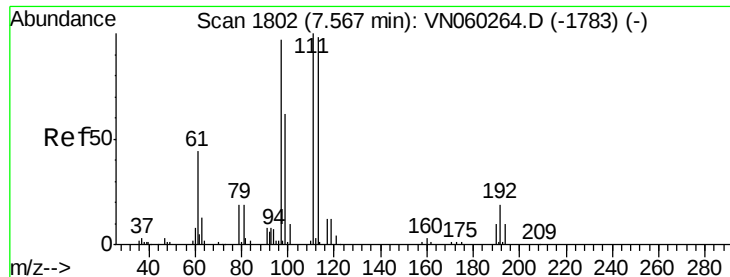
Tot Ion: 65 Resp: 127597
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060289.D
 Acq: 28 Feb 2020 16:57

Tgt Ion: 114 Resp: 325550
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 43.2
 88 15.9 0.0 31.6

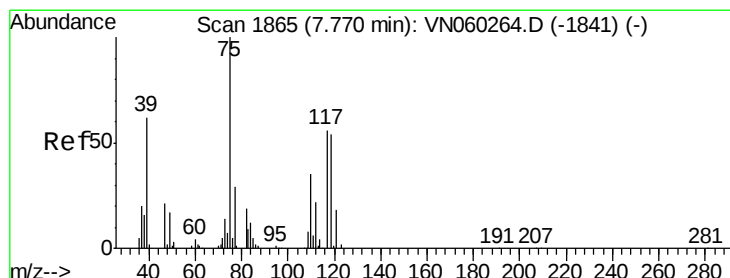
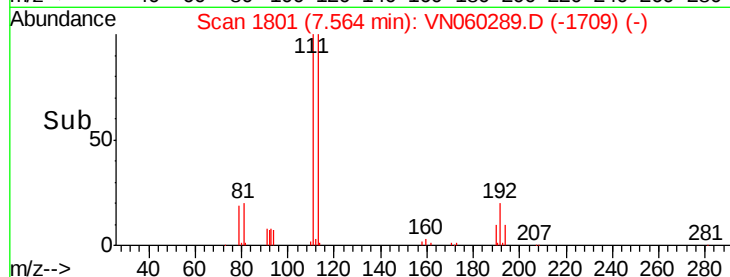
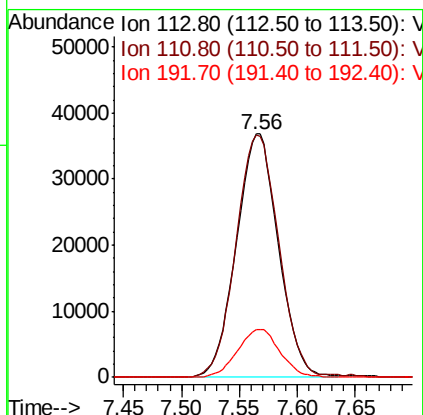
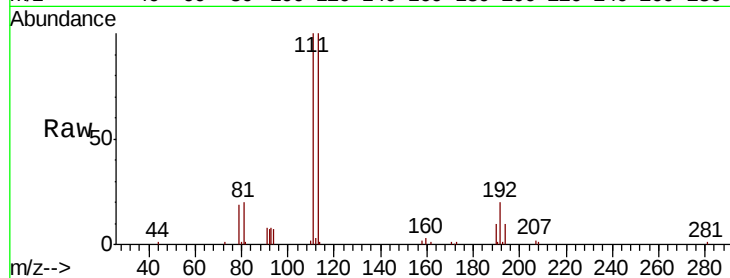




#35
 Dibromofluoromethane
 Concen: 61.492 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060289.D
 Acq: 28 Feb 2020 16:57

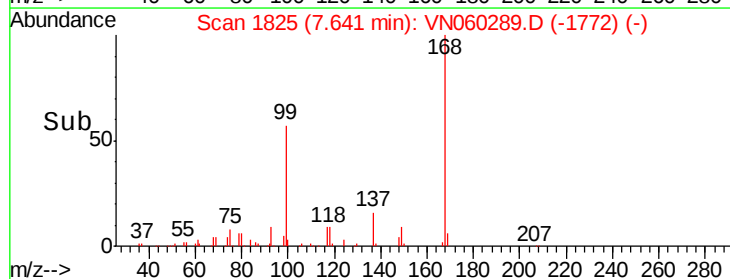
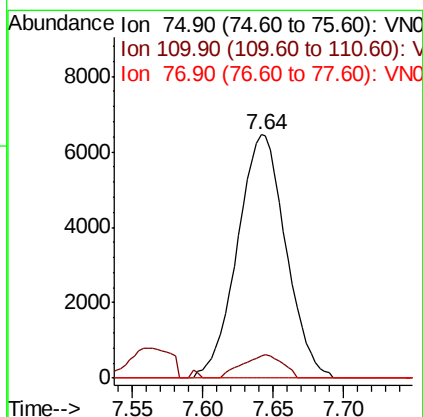
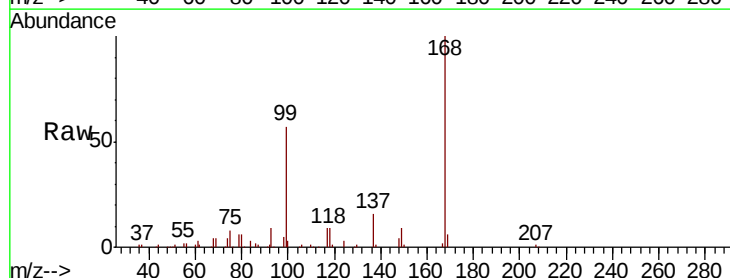
Instrument :
 MSVOA_N
 ClientSampleId :

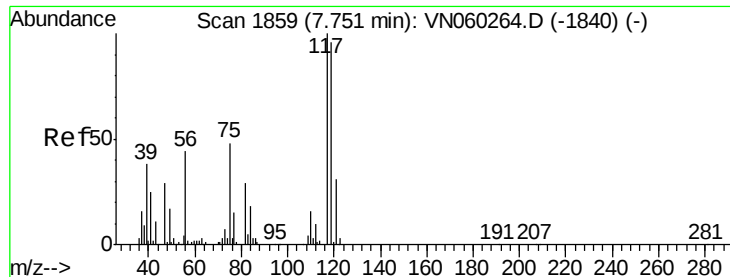
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.4	123.6
192	19.9	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.987 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060289.D
 Acq: 28 Feb 2020 16:57

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





#38

Carbon Tetrachloride

Concen: 6.150 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

ClientSampled :

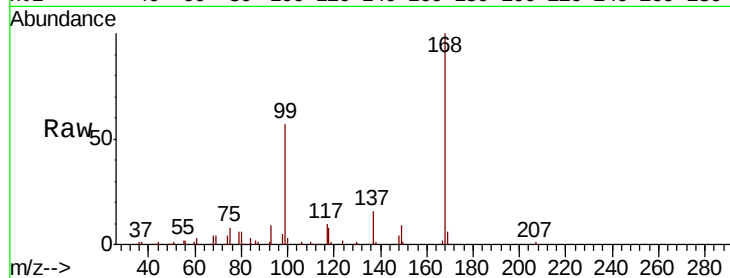
Tot Ion:117 Resp: 18578

Ion Ratio Lower Upper

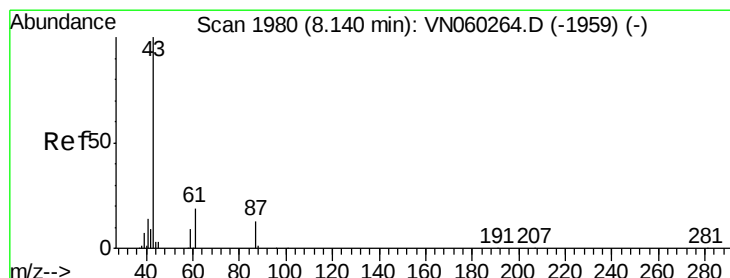
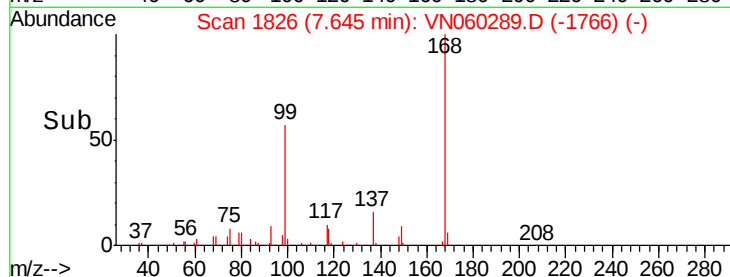
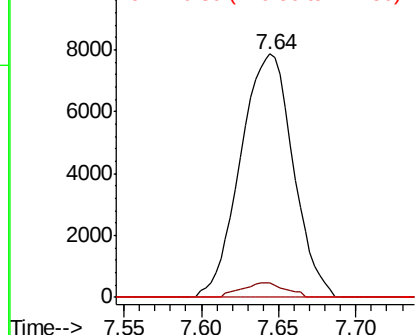
117 100

119 5.7 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: 11.072 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

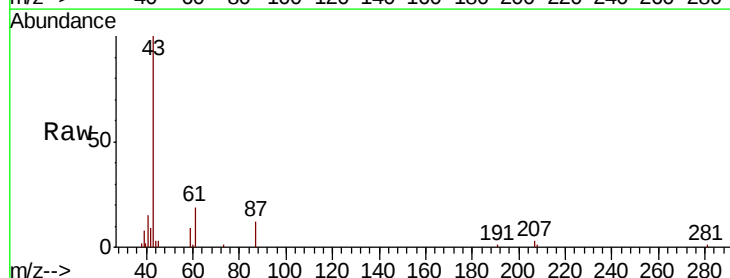
Tgt Ion: 43 Resp: 56944

Ion Ratio Lower Upper

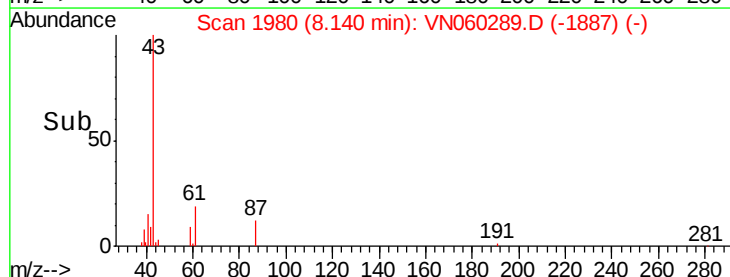
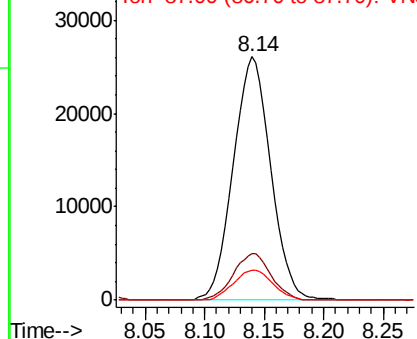
43 100

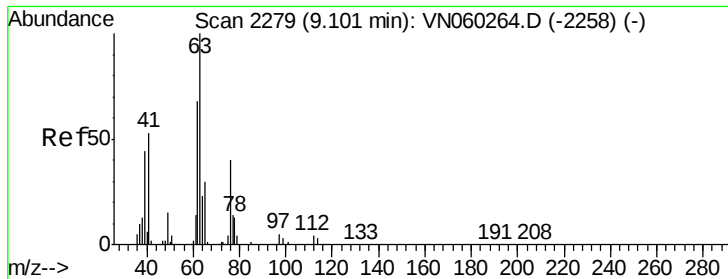
61 19.2 20.9 31.3#

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: 0.507 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

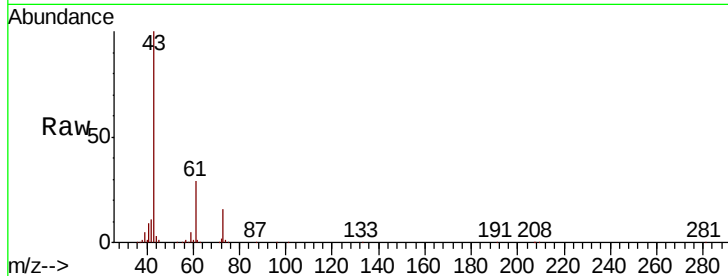
ClientSampleId :

Tot Ion: 63 Resp: 1196

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

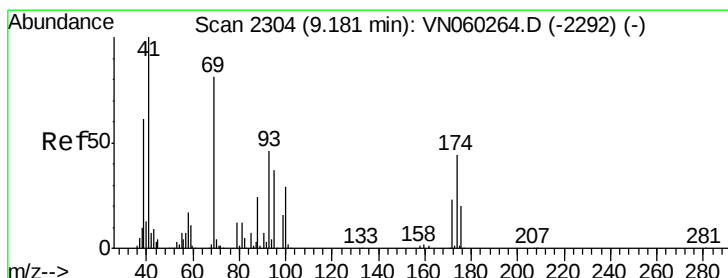
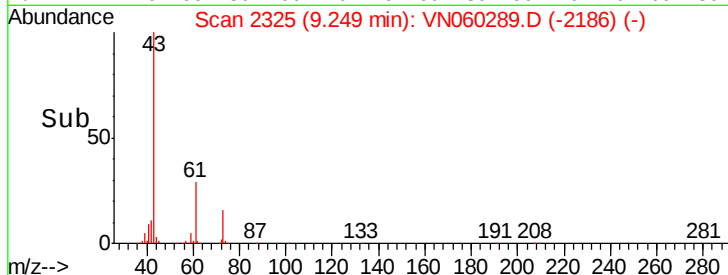
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.346 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

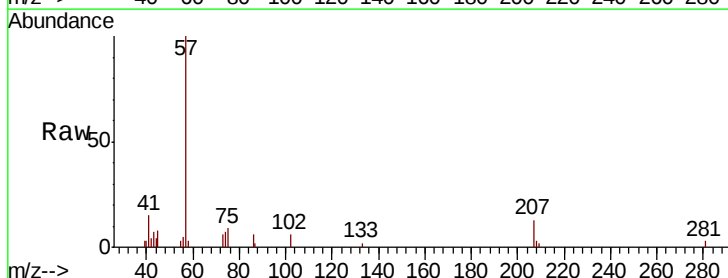
Tgt Ion: 41 Resp: 3157

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

50000

40000

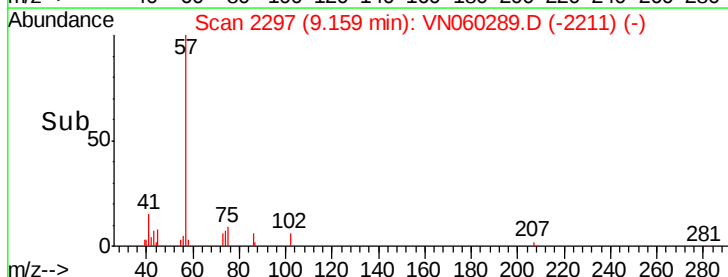
30000

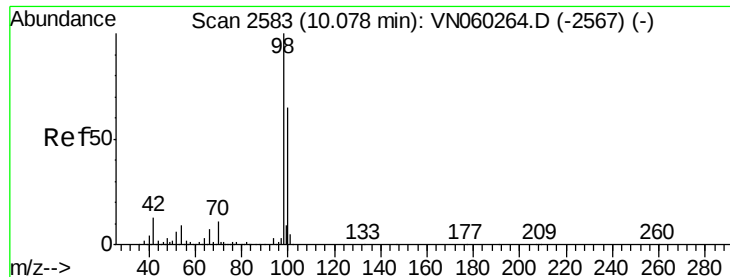
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 52.330 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

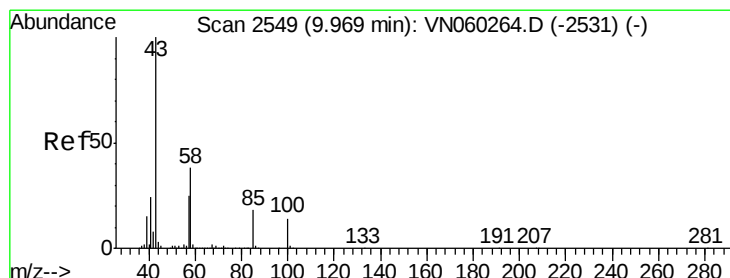
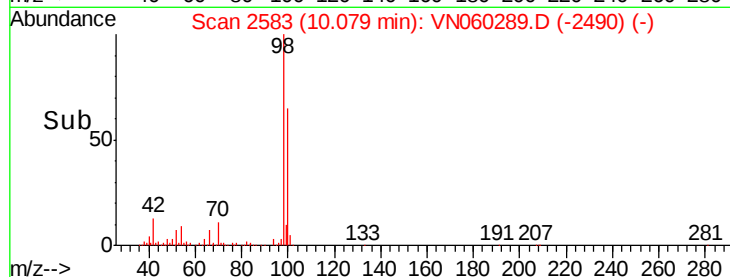
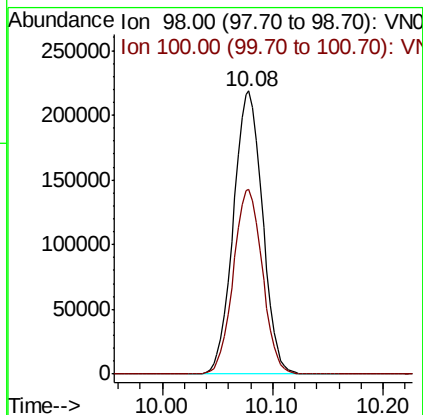
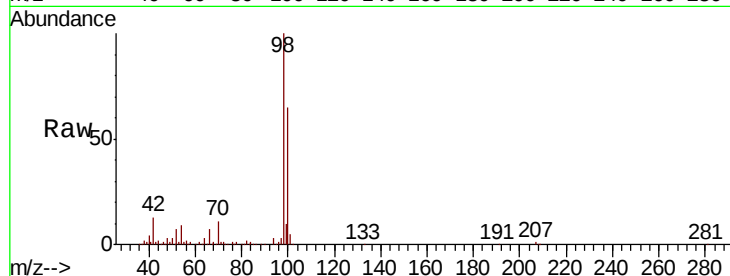
ClientSampled :

Tot Ion: 98 Resp: 400215

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.657 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060289.D

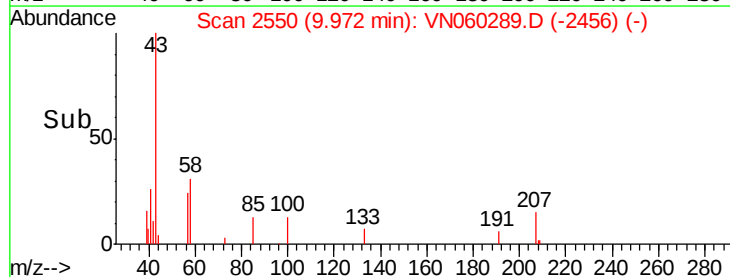
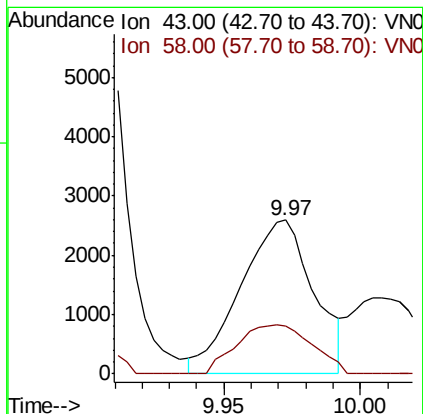
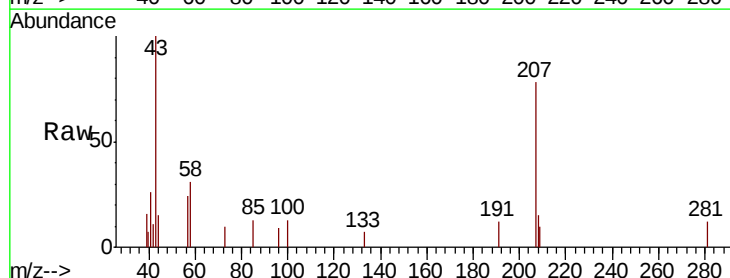
Acq: 28 Feb 2020 16:57

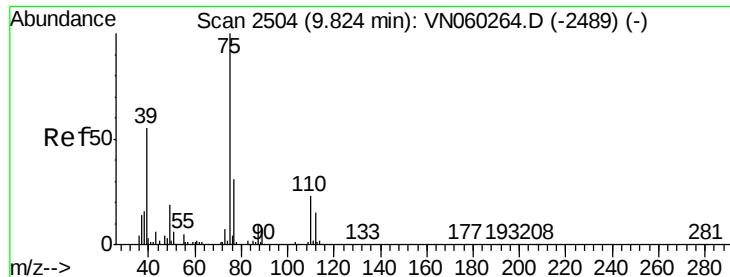
Tgt Ion: 43 Resp: 4832

Ion Ratio Lower Upper

43 100

58 32.7 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 6.040 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

ClientSampleId :

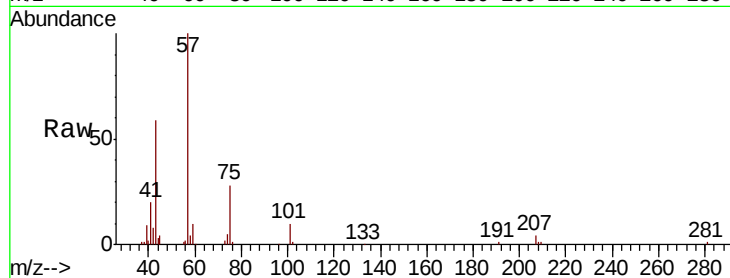
Tot Ion: 75 Resp: 23894

Ion Ratio Lower Upper

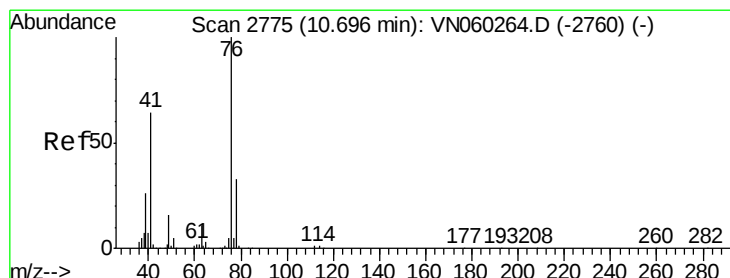
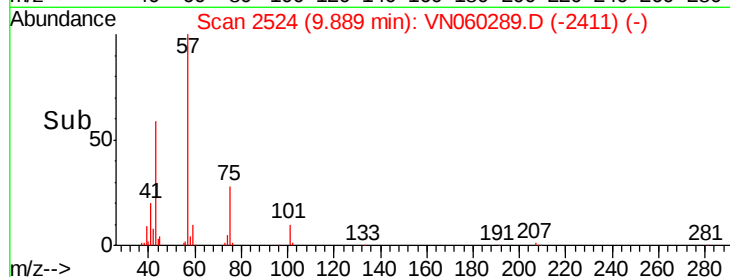
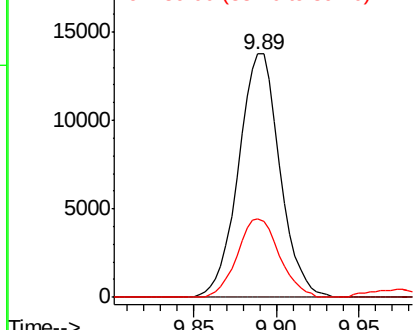
75 100

77 0.0 24.8 37.2#

39 32.3 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.006 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060289.D

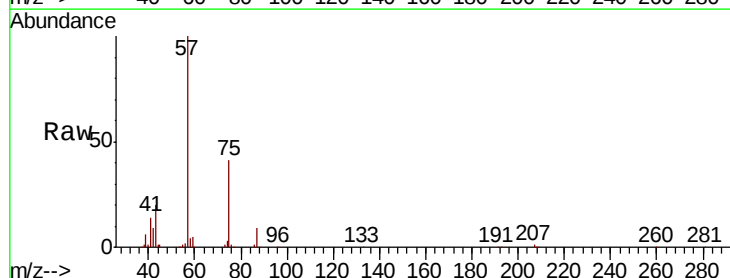
Acq: 28 Feb 2020 16:57

Tgt Ion: 76 Resp: 3743

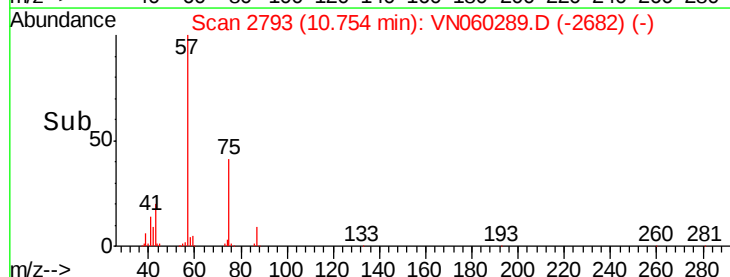
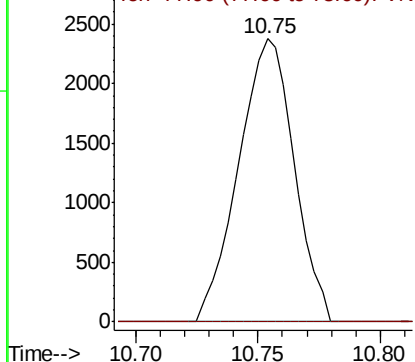
Ion Ratio Lower Upper

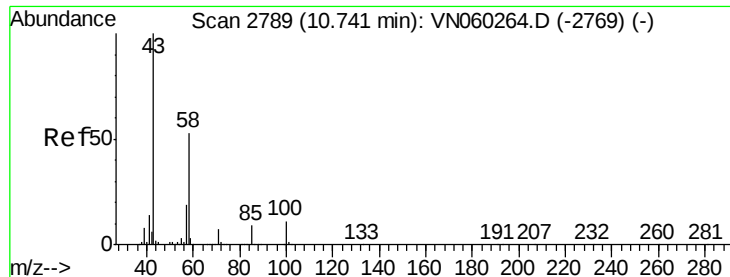
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

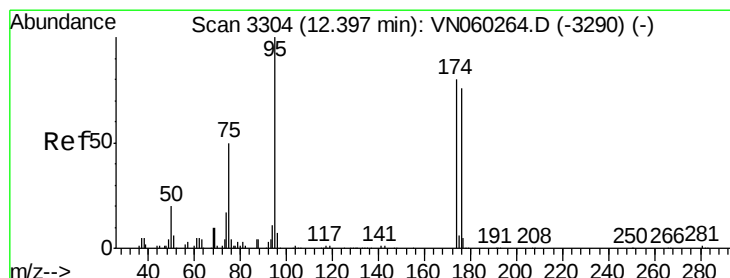
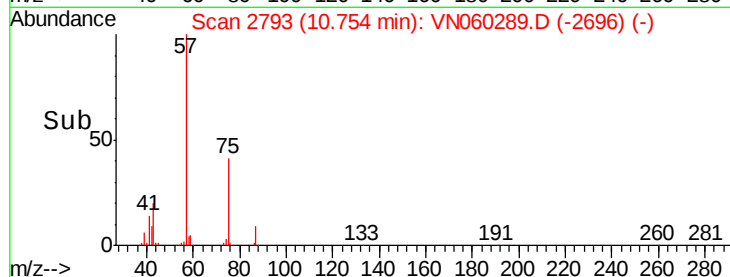
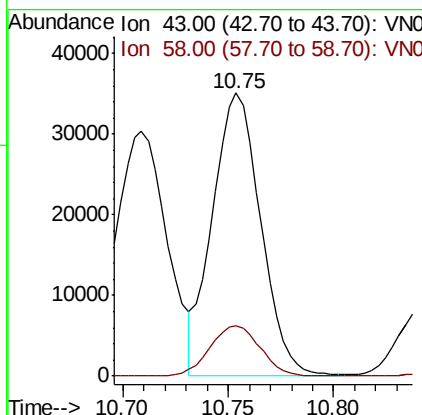
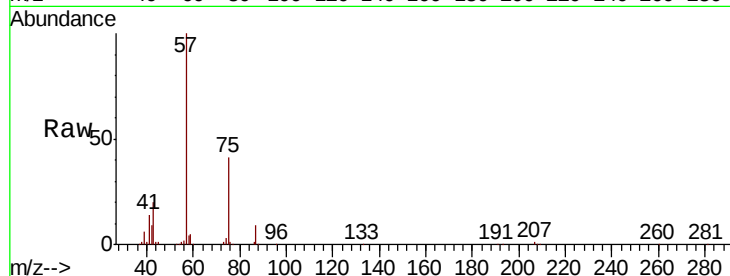




#59
2-Hexanone
Concen: 26.156 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

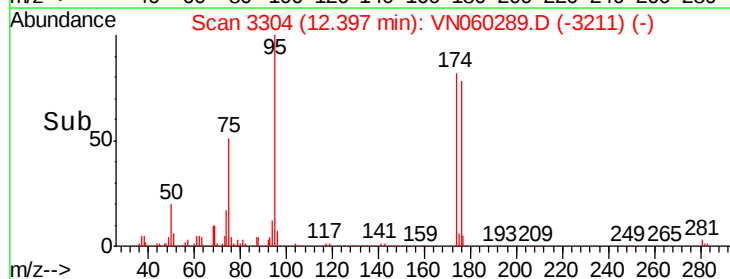
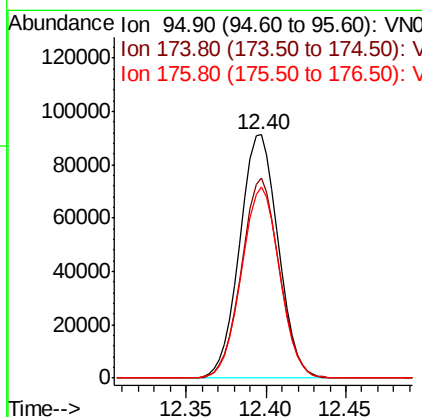
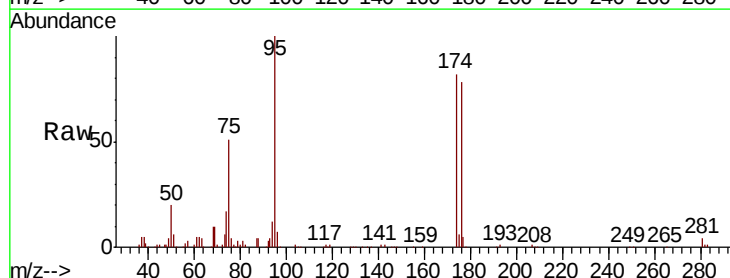
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 56002
Ion Ratio Lower Upper
43 100
58 18.4 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.595 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

Tgt Ion: 95 Resp: 149580
Ion Ratio Lower Upper
95 100
174 80.6 0.0 159.2
176 78.0 0.0 153.8

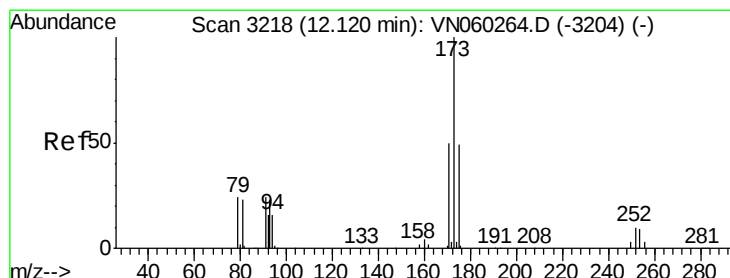
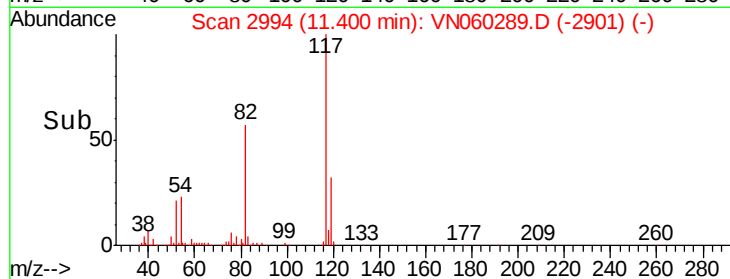
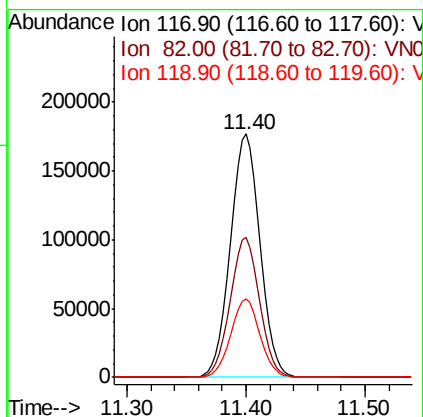
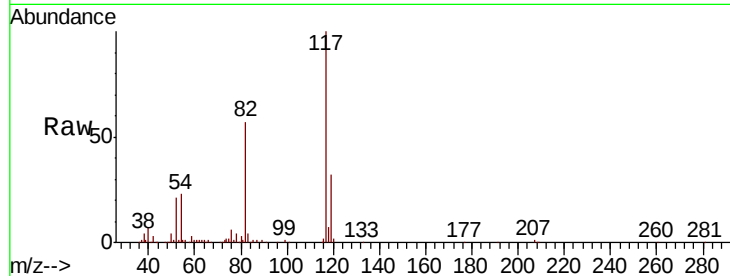




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

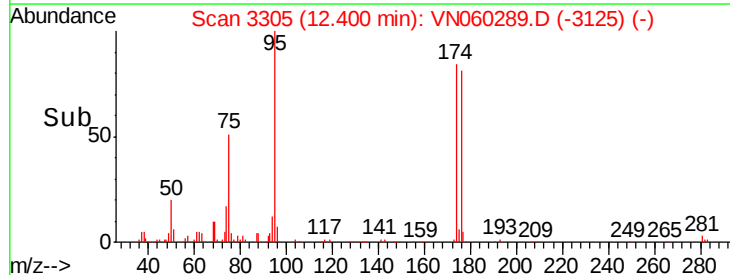
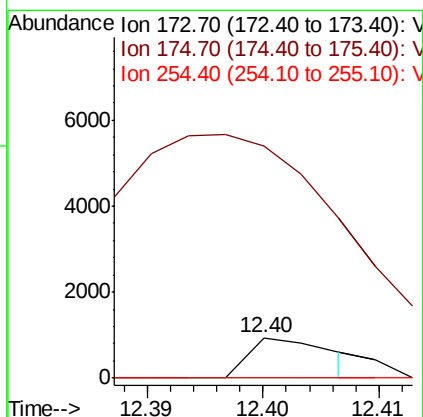
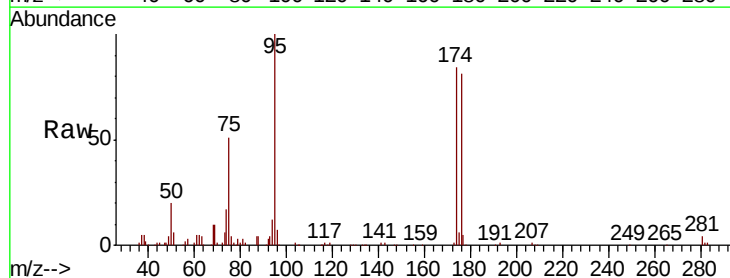
Instrument :
MSVOA_N
ClientSampled :

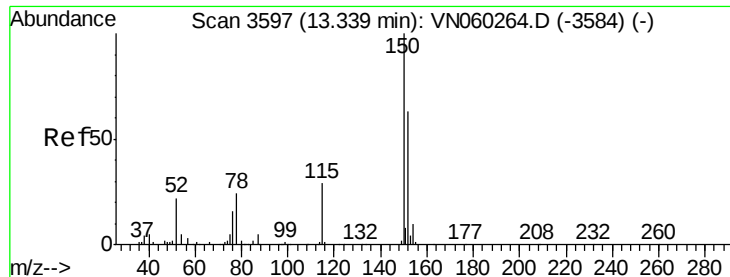
Tot Ion:117 Resp: 305017
Ion Ratio Lower Upper
117 100
82 57.3 45.8 68.6
119 32.2 25.8 38.8



#71
Bromoform
Concen: 0.280 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

Tgt Ion:173 Resp: 459
Ion Ratio Lower Upper
173 100
175 1784.3 24.1 72.2#
254 0.0 0.0 0.0



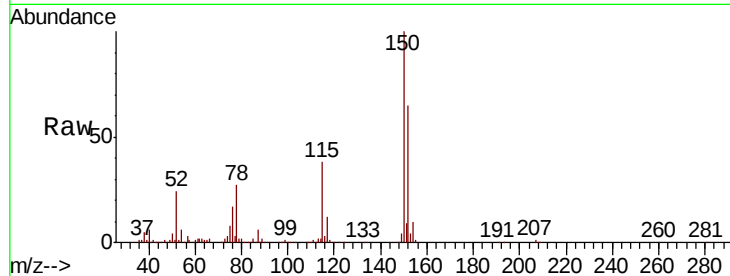


#72

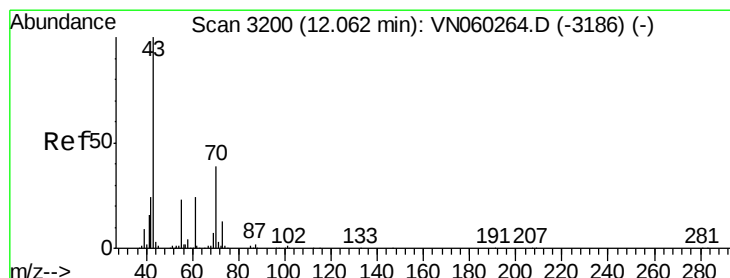
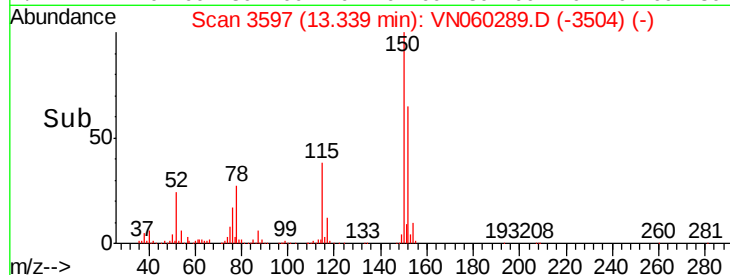
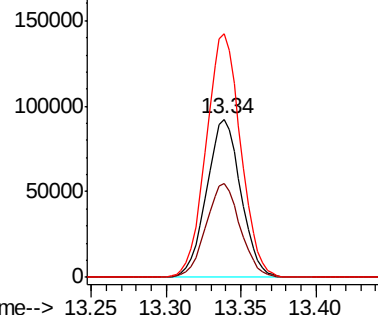
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.4	30.0	90.0
150	155.9	0.0	349.6



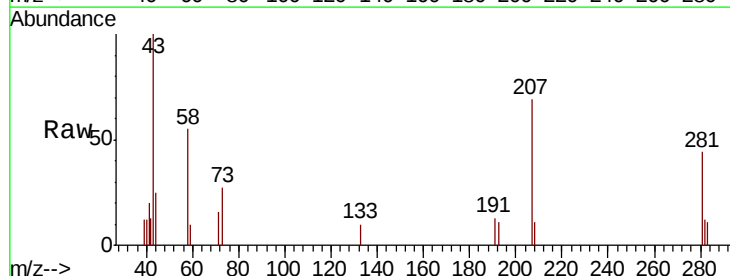
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



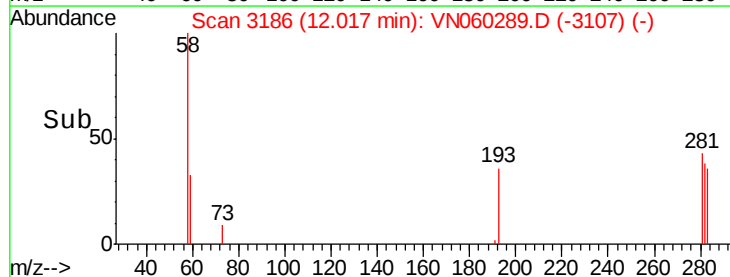
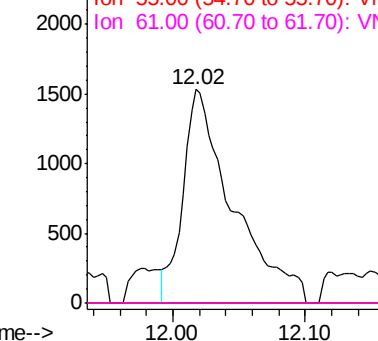
#74

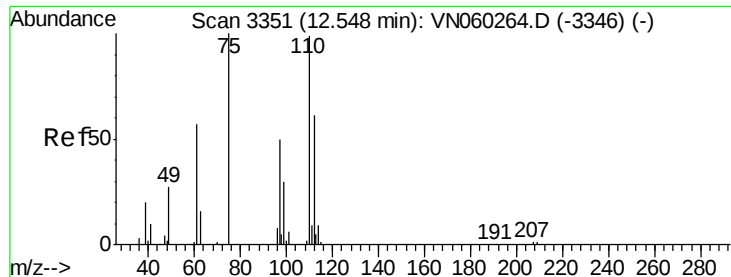
N-ethyl acetate
Concen: 0.841 ug/l
RT: 12.02 min Scan# 3186
Delta R.T. -0.04 min
Lab File: VN060289.D
Acq: 28 Feb 2020 16:57

Tgt 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): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 24.298 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

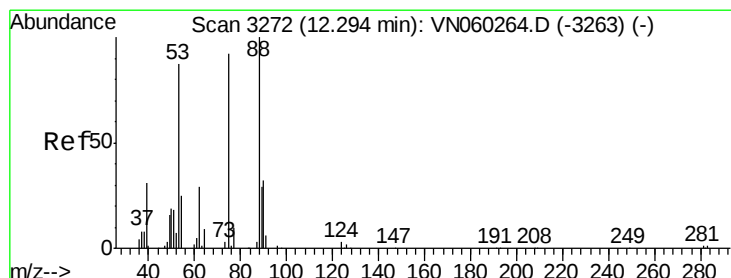
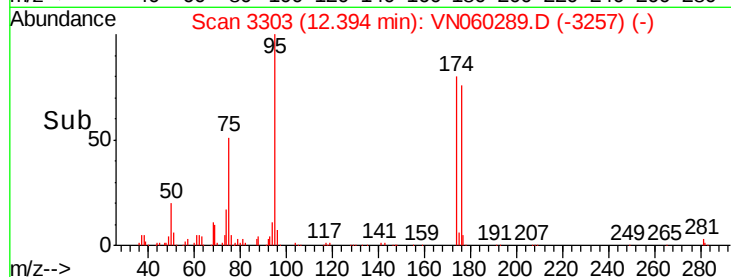
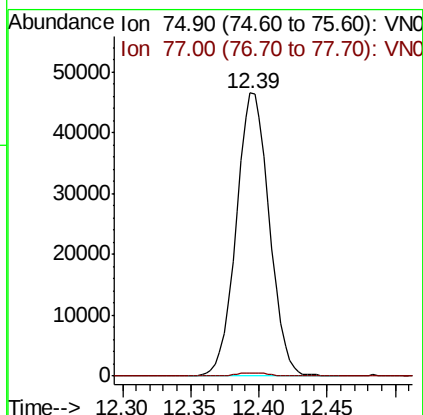
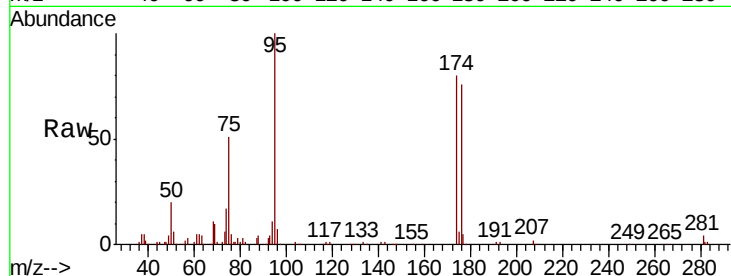
ClientSampled :

Tot Ion: 75 Resp: 78326

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.075 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

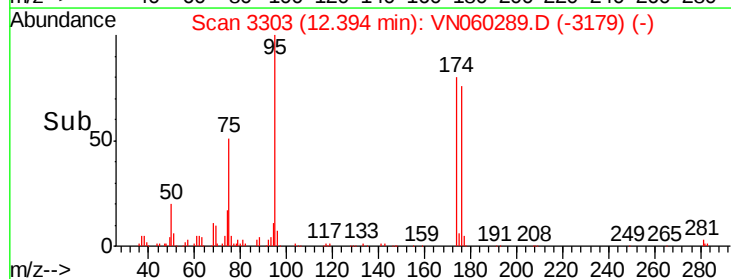
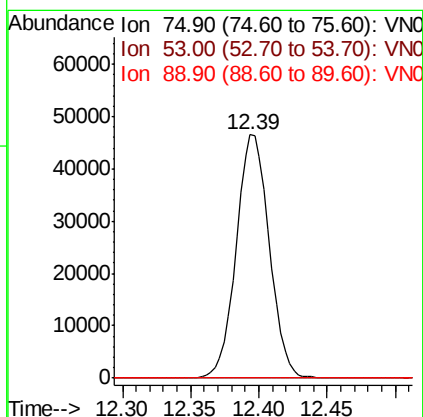
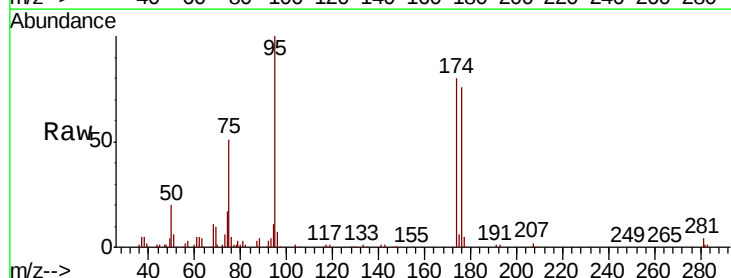
Tgt Ion: 75 Resp: 78326

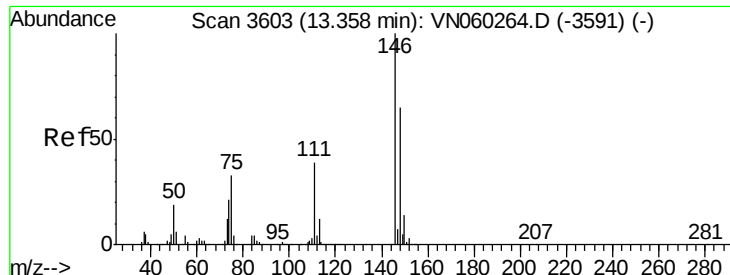
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

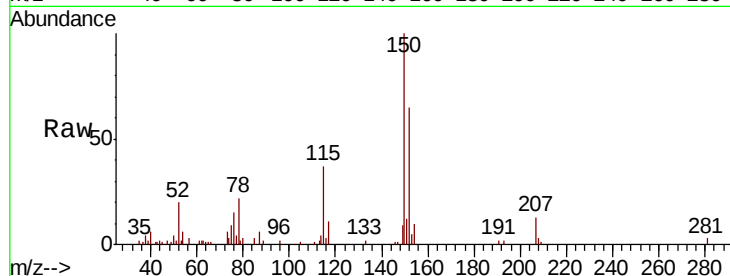




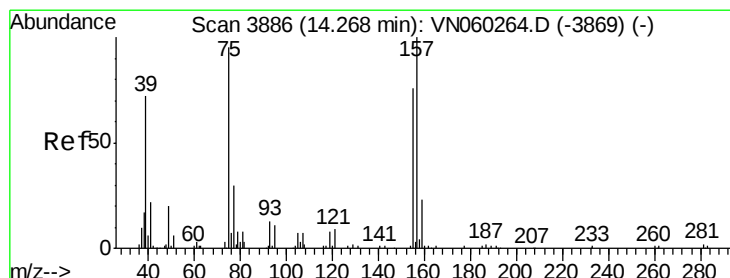
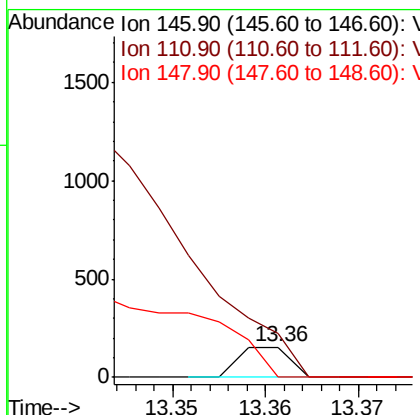
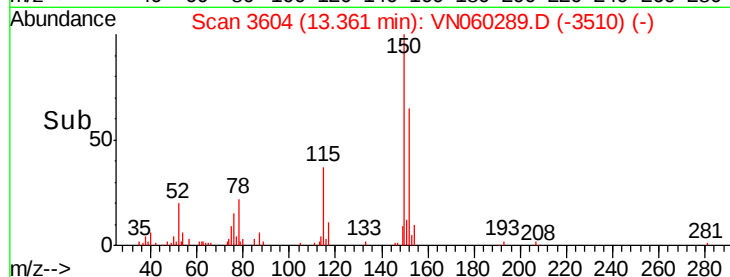
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN060289.D
 Acq: 28 Feb 2020 16:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 59
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.8 59.4#
 148 0.0 32.3 96.9#

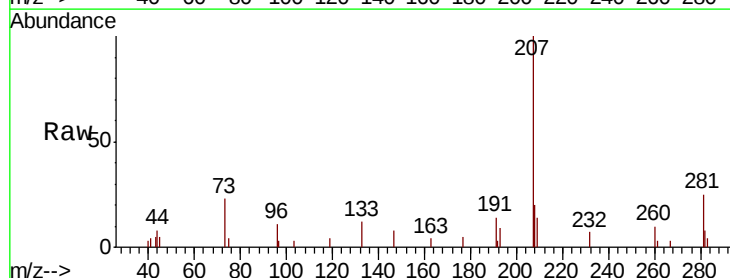


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

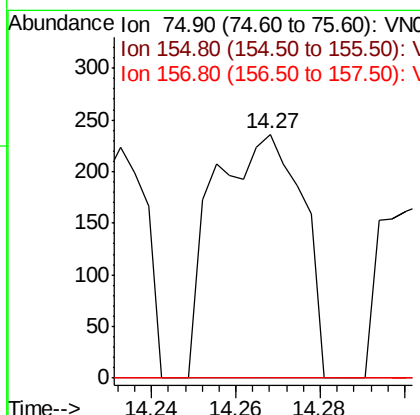
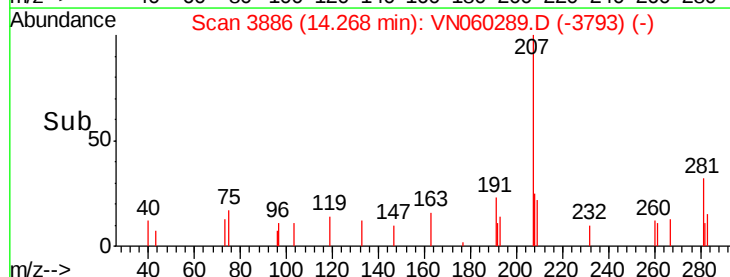


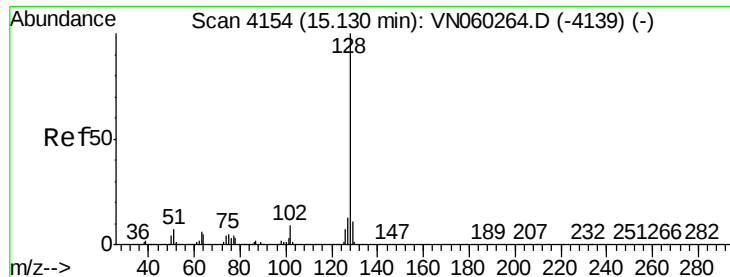
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.513 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060289.D
 Acq: 28 Feb 2020 16:57

Tgt Ion: 75 Resp: 344
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.2#
 157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

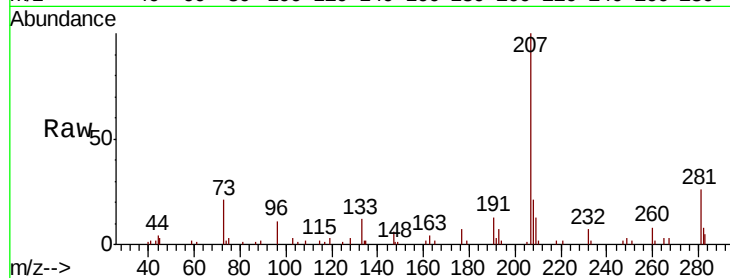
Lab File: VN060289.D

Acq: 28 Feb 2020 16:57

Instrument :

MSVOA_N

ClientSampleId :



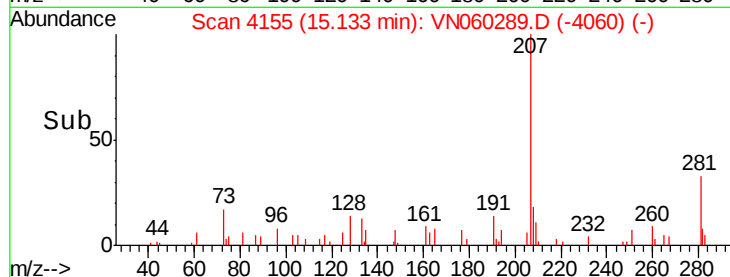
Tot Ion:128 Resp: 598

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

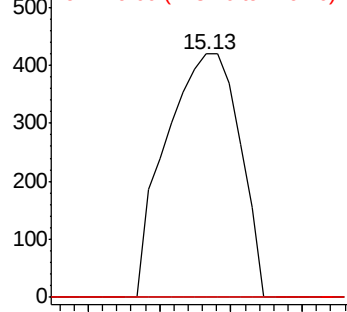
129 0.0 8.6 13.0#



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



Time-->