

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030220\
 Data File : VN060307.D
 Acq On : 2 Mar 2020 13:34
 Operator : JC/MD
 Sample : PB127166ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 03 05:45:58 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	212873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	345915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	151588	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	134495	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
35) Dibromofluoromethane	7.57	113	93774	58.40	ug/l	0.00
Spiked Amount			Recovery	=	116.80%	
50) Toluene-d8	10.08	98	427846	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
62) 4-Bromofluorobenzene	12.40	95	158611	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	

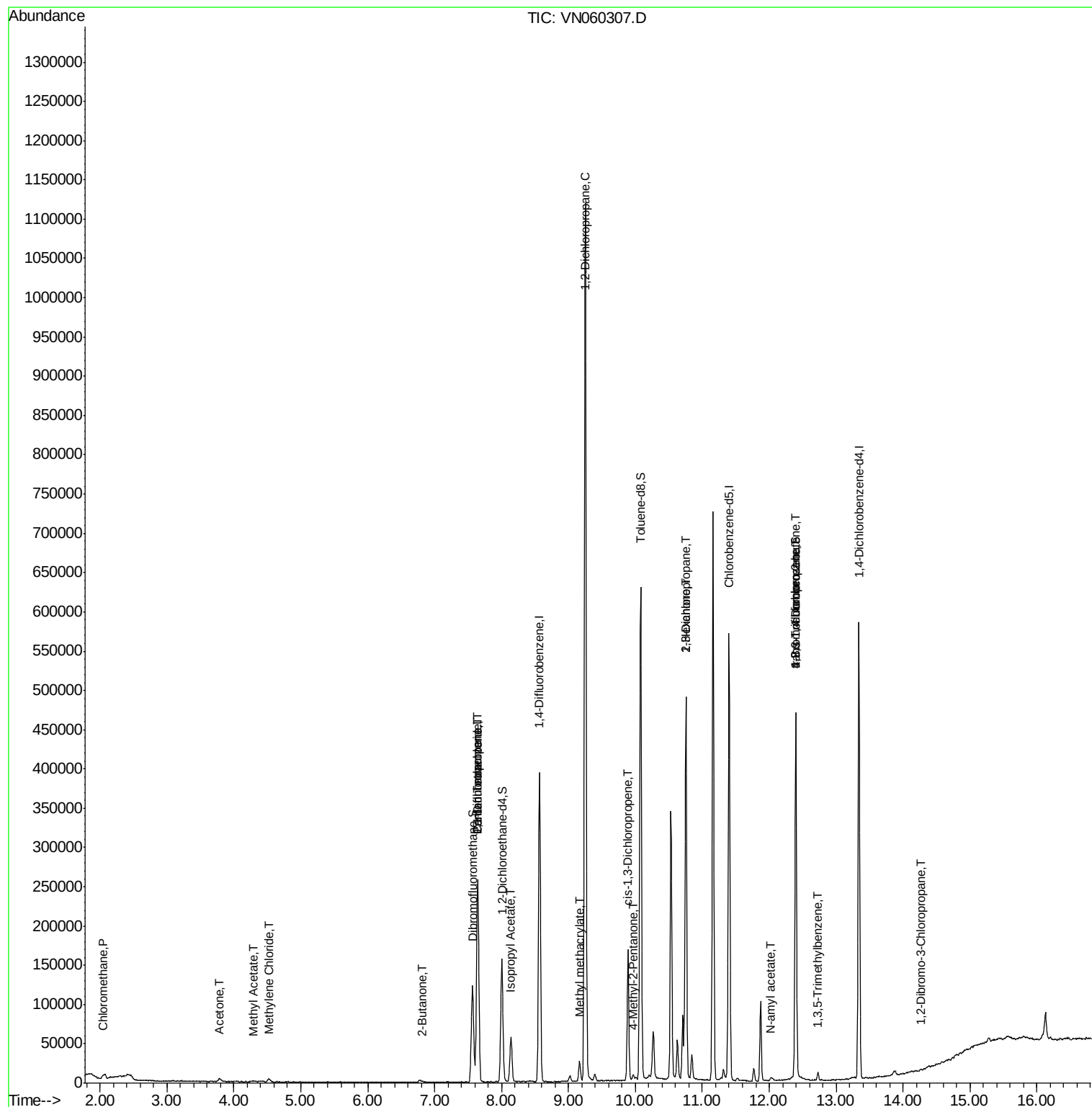
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	717	0.211	ug/l #	43
12) 1,1-Dichloroethene	3.71	96	92	Below Cal	#	1
16) Acetone	3.79	43	7299	8.276	ug/l	98
17) Carbon Disulfide	4.03	76	201	Below Cal	#	75
18) Methyl Acetate	4.30	43	1877	0.638	ug/l #	74
20) Methylene Chloride	4.52	84	2947	1.217	ug/l #	86
21) trans-1,2-Dichloroethene	5.01	96	29	Below Cal	#	1
25) 2-Butanone	6.81	43	471	0.331	ug/l #	49
31) Cyclohexane	7.64	56	4568	Below Cal	#	5
36) 1,1-Dichloropropene	7.64	75	16502	5.006	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20852	6.496	ug/l #	16
43) Isopropyl Acetate	8.14	43	68635	12.559	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1343	0.535	ug/l #	44
48) Methyl methacrylate	9.16	41	3624	1.454	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5214	1.683	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	29238	6.955	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4942	1.250	ug/l #	42
59) 2-Hexanone	10.75	43	72931	32.058	ug/l #	51
74) N-amyl acetate	12.02	43	4369	0.890	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	81543	24.518	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5315	0.562	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	81543	67.681	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	300	Below Cal	#	74
88) 1,4-Dichlorobenzene	13.36	146	345	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.26	75	546	0.789	ug/l #	3
95) Naphthalene	15.14	128	1030	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.32	180	316	Below Cal		66

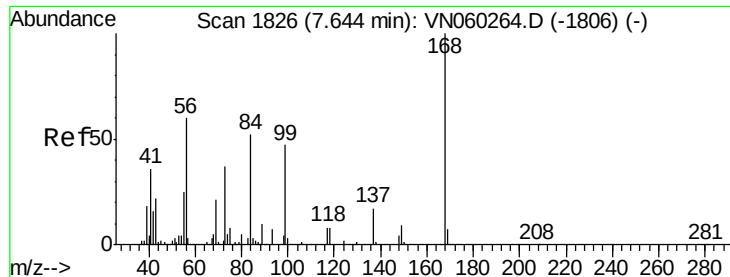
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1826

Delta R.T. 0.00 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

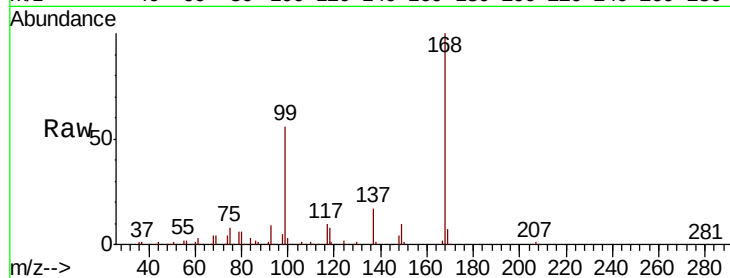
ClientSampled :

Tot Ion:168 Resp: 212873

Ion Ratio Lower Upper

168 100

99 55.5 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

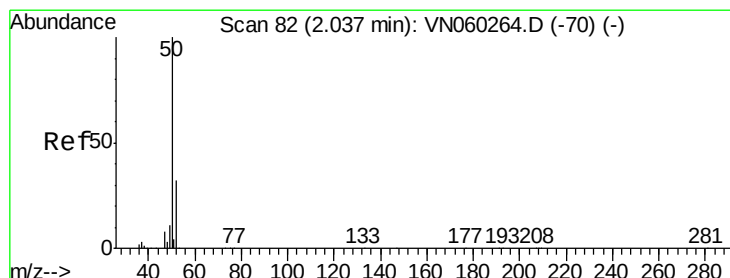
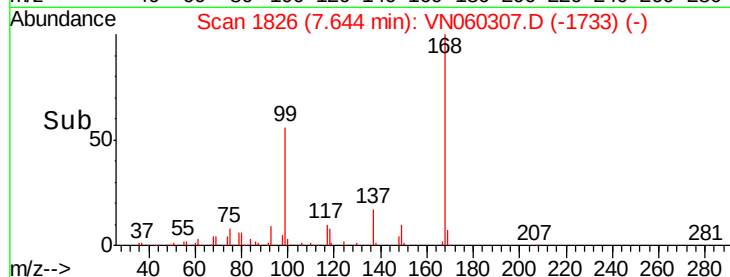
40000

20000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.211 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060307.D

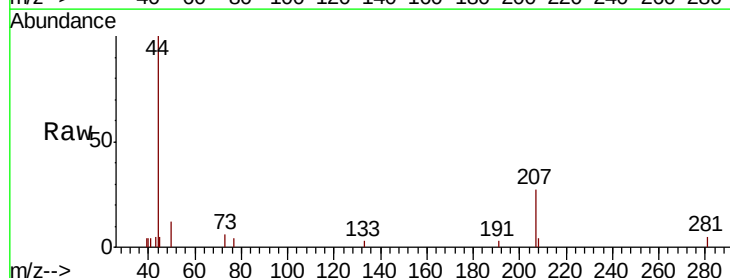
Acq: 2 Mar 2020 13:34

Tgt Ion: 50 Resp: 717

Ion Ratio Lower Upper

50 100

52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

600

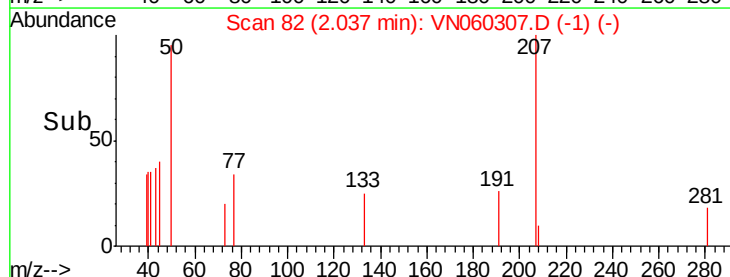
400

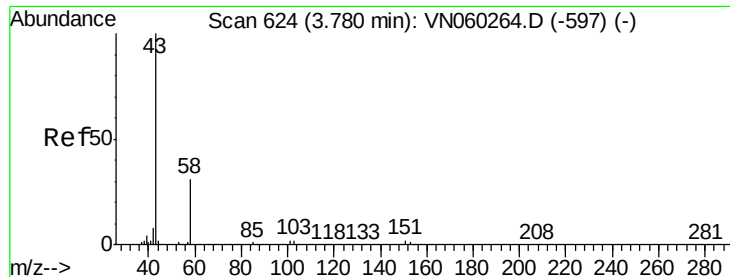
200

0

2.00 2.02 2.04 2.06

Time-->

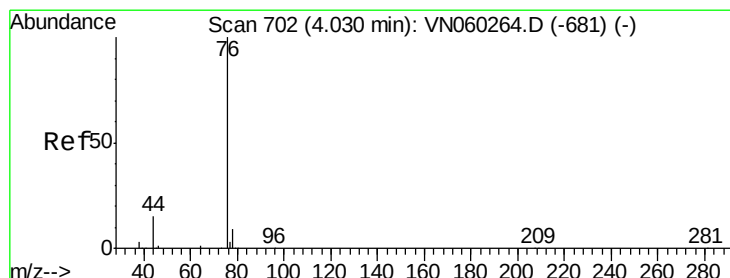
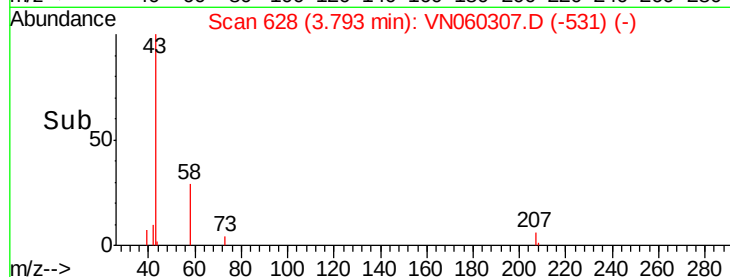
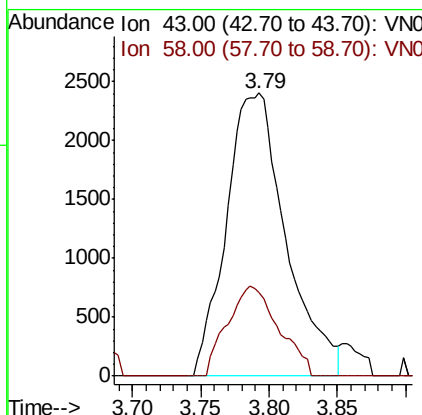
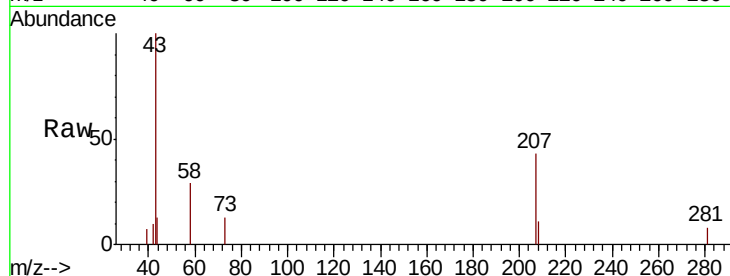




#16
Acetone
Concen: 8.276 ug/l
RT: 3.79 min Scan# 628
Delta R.T. 0.01 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

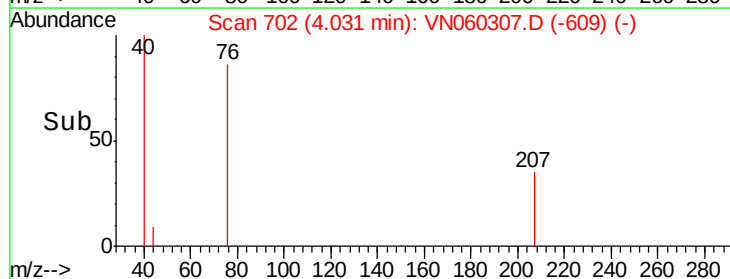
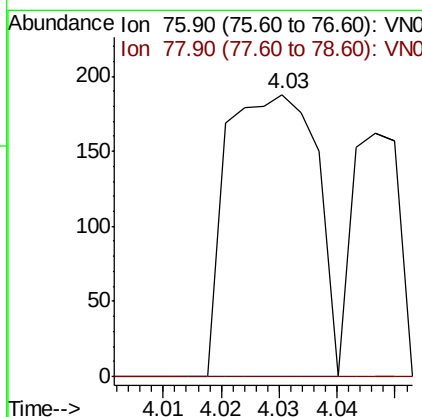
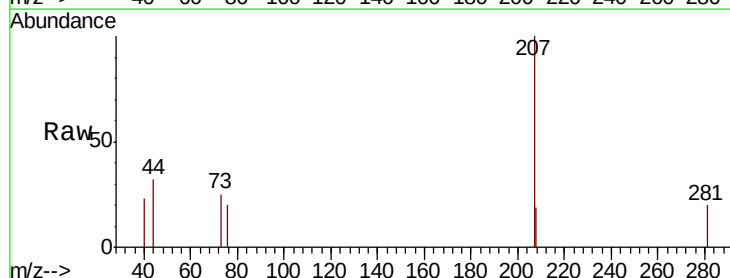
Instrument :
MSVOA_N
ClientSampled :

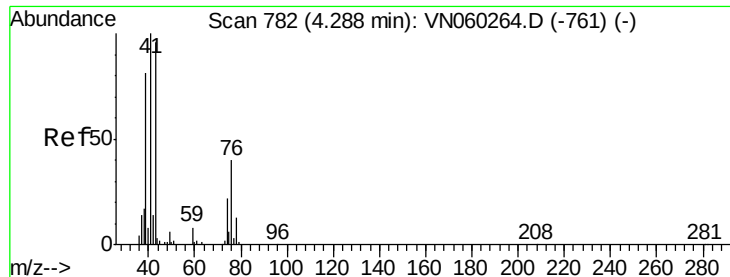
Tot Ion: 43 Resp: 7299
Ion Ratio Lower Upper
43 100
58 29.4 24.6 36.8



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Tgt Ion: 76 Resp: 201
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

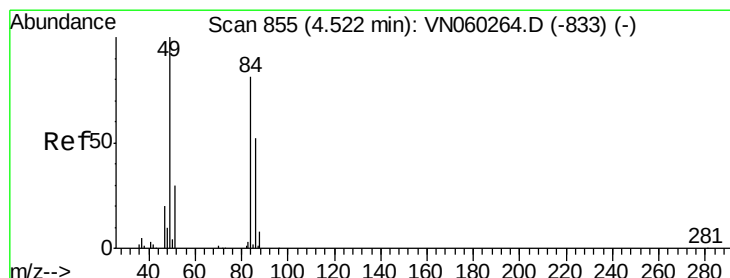
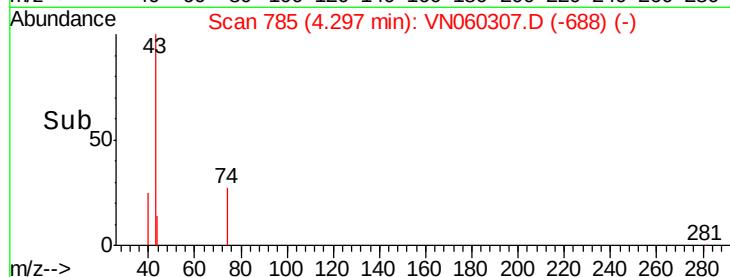
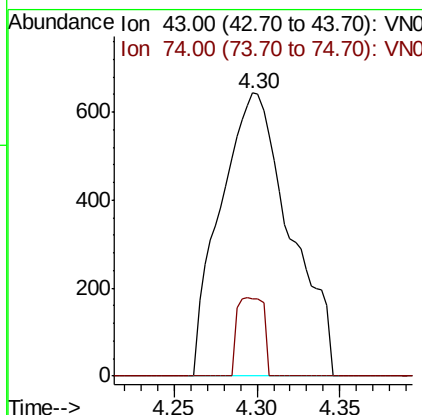
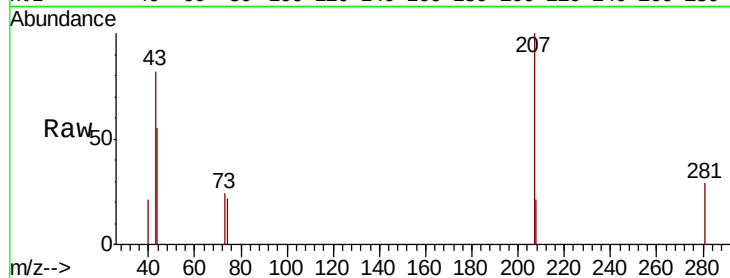




#18
Methyl Acetate
Concen: 0.638 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

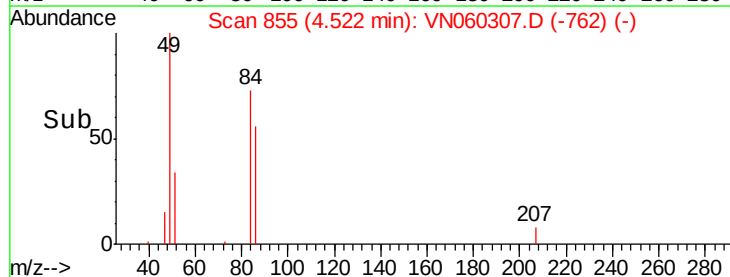
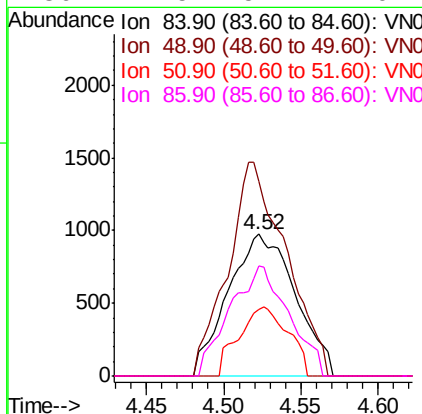
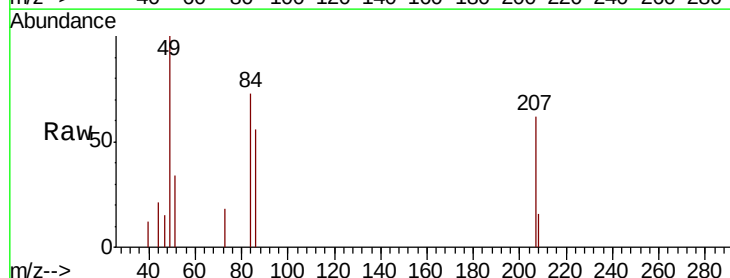
Instrument :
MSVOA_N
ClientSampleId :

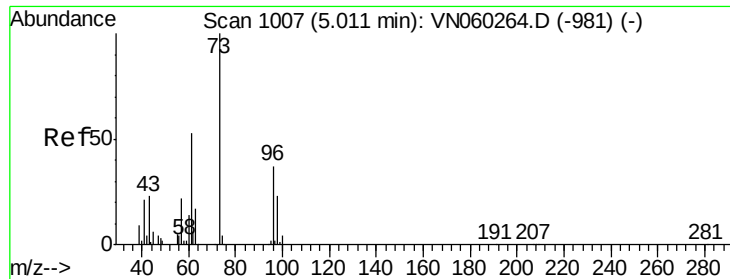
Tot Ion: 43 Resp: 1877
Ion Ratio Lower Upper
43 100
74 10.5 18.8 28.2#



#20
Methylene Chloride
Concen: 1.217 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Tgt Ion: 84 Resp: 2947
Ion Ratio Lower Upper
84 100
49 137.6 99.3 148.9
51 47.3 30.1 45.1#
86 77.5 51.1 76.7#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.01 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

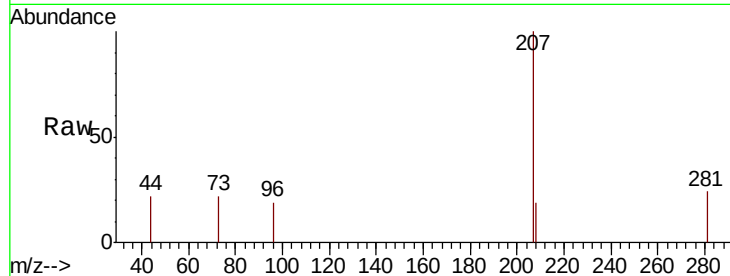
Tot Ion: 96 Resp: 29

Ion Ratio Lower Upper

96 100

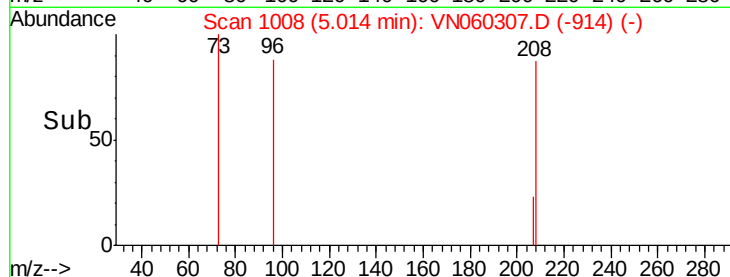
61 0.0 113.8 170.8#

98 0.0 48.8 73.2#

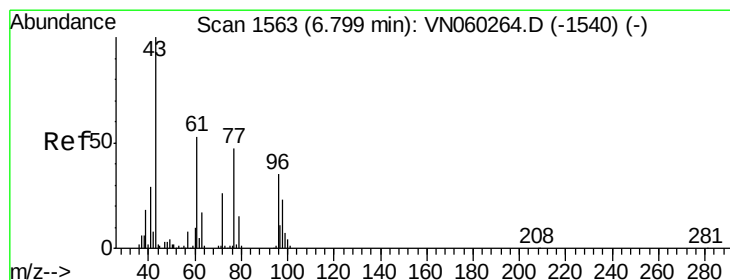


Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO

5.01



Time-->



#25

2-Butanone

Concen: 0.331 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060307.D

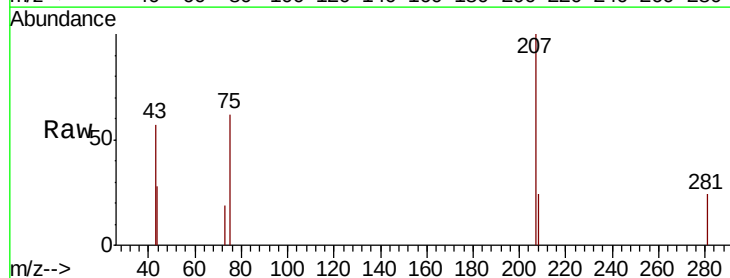
Acq: 2 Mar 2020 13:34

Tgt Ion: 43 Resp: 471

Ion Ratio Lower Upper

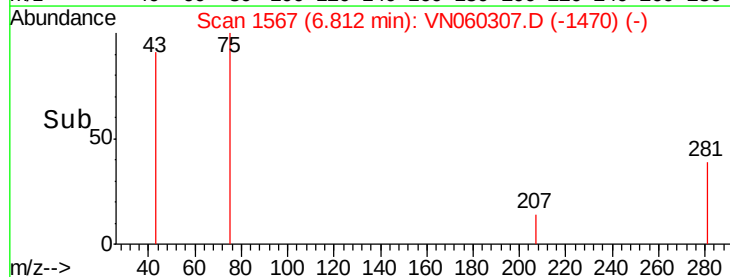
43 100

72 0.0 20.9 31.3#

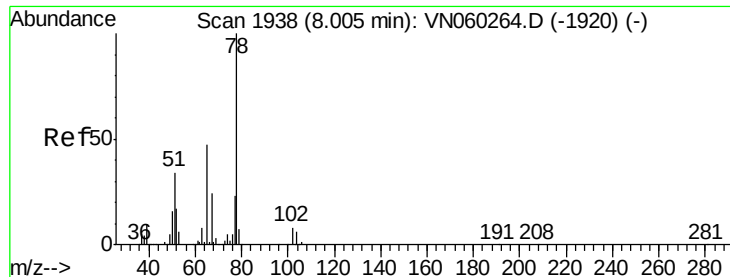


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO

6.81



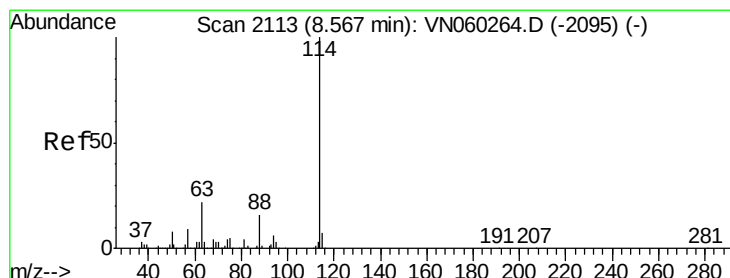
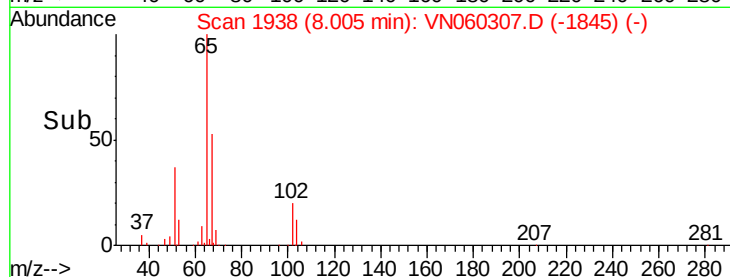
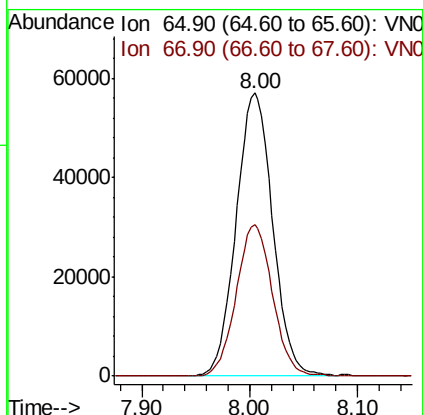
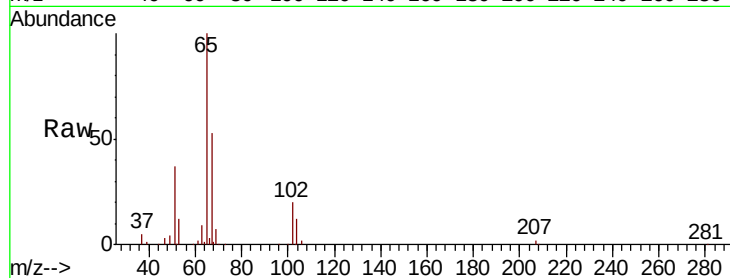
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 49.244 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060307.D
 Acq: 2 Mar 2020 13:34

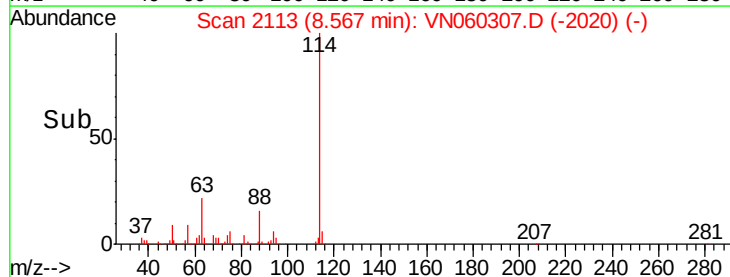
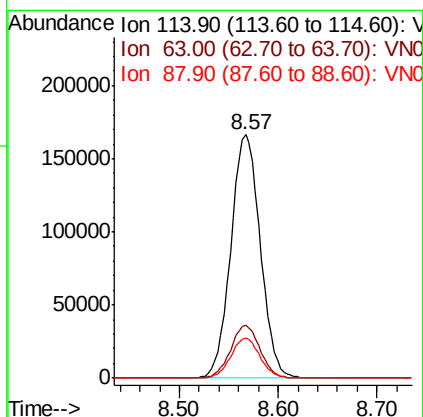
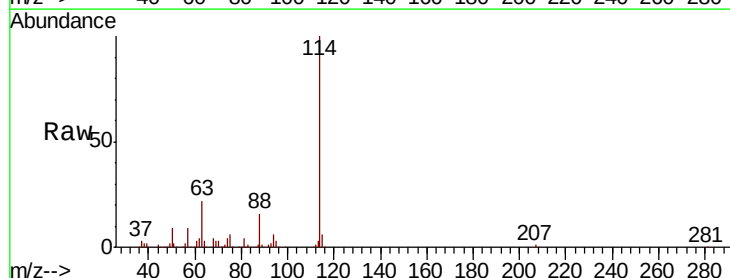
Instrument :
 MSVOA_N
 ClientSampled :

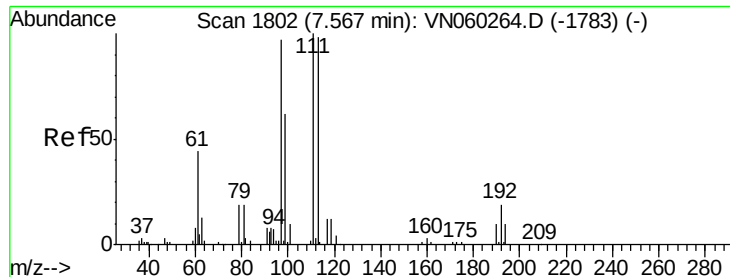
Tot Ion: 65 Resp: 134495
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060307.D
 Acq: 2 Mar 2020 13:34

Tgt Ion: 114 Resp: 345915
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 16.4 0.0 31.6

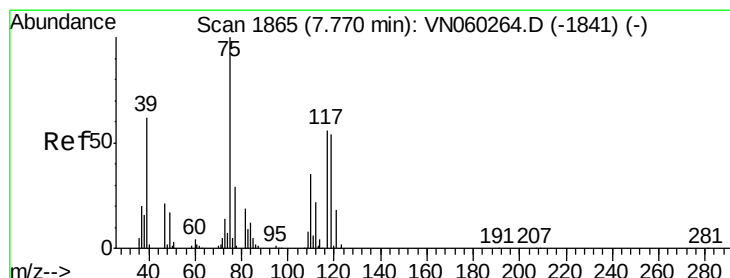
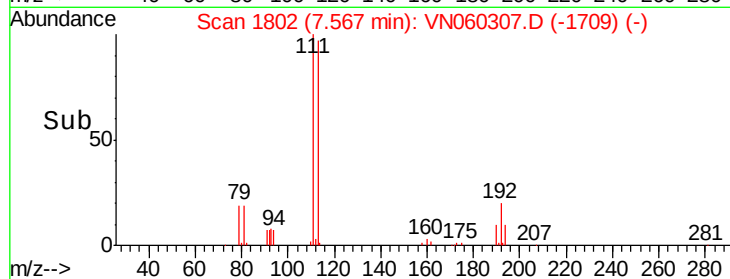
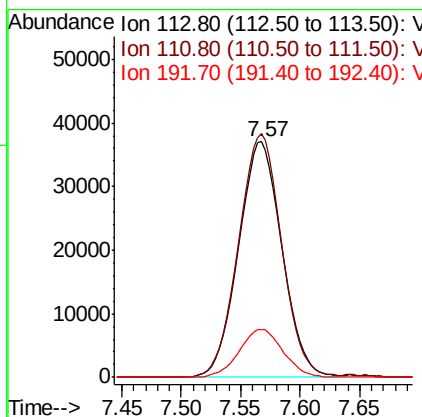
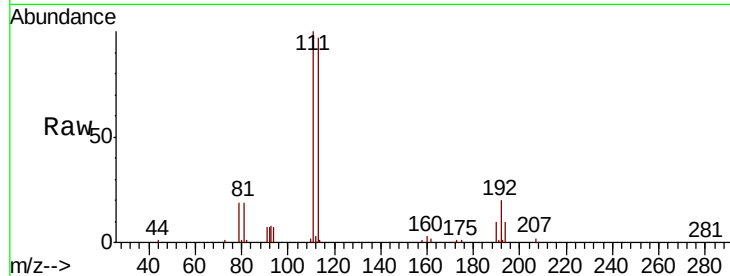




#35
 Dibromofluoromethane
 Concen: 58.403 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060307.D
 Acq: 2 Mar 2020 13:34

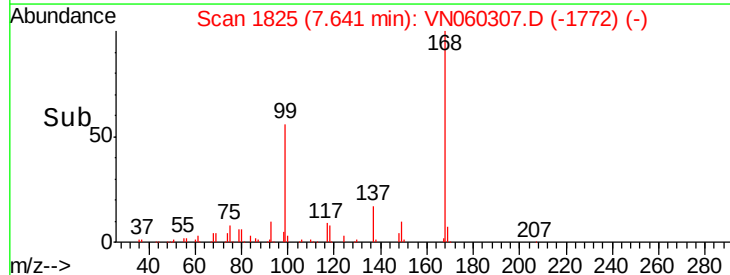
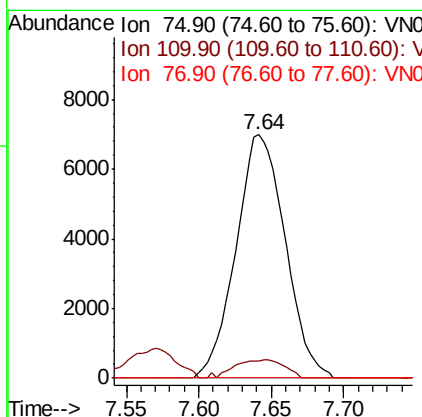
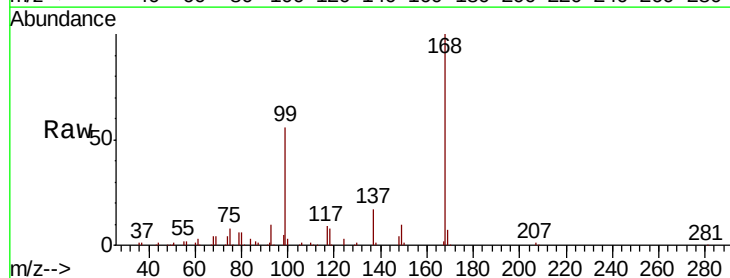
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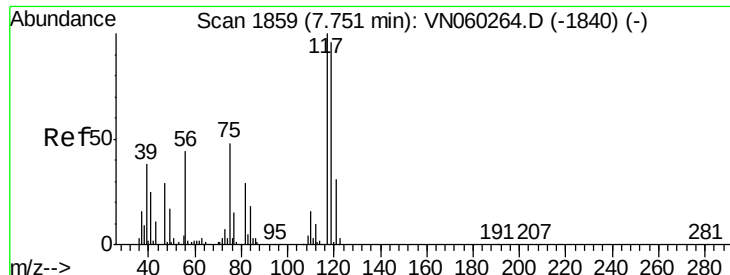
Tot Ion:113 Resp: 93774
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 20.4 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.006 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060307.D
 Acq: 2 Mar 2020 13:34

Tgt Ion: 75 Resp: 16502
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.3 52.0#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.496 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

ClientSampled :

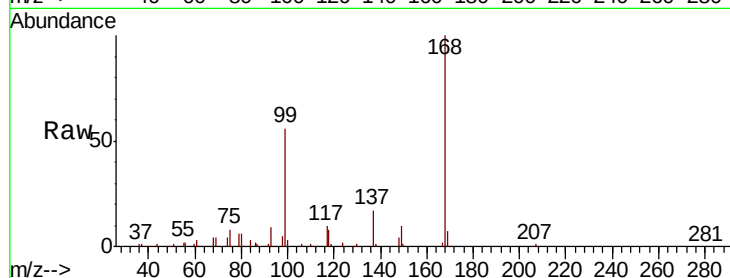
Tot Ion:117 Resp: 20852

Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

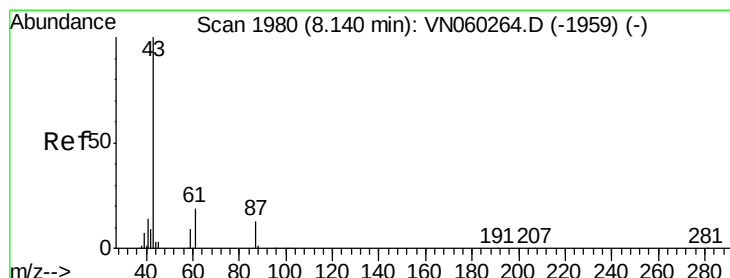
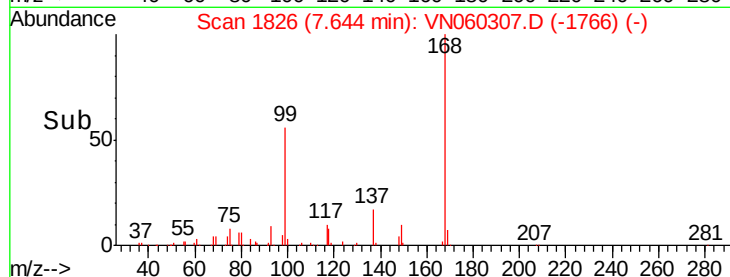
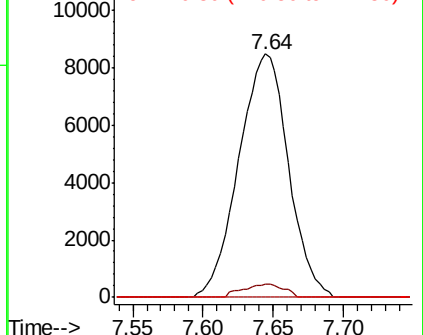
121 0.0 24.5 36.7#



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: 12.559 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

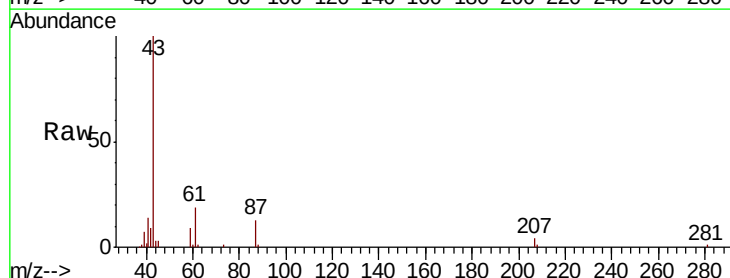
Tgt Ion: 43 Resp: 68635

Ion Ratio Lower Upper

43 100

61 18.7 20.9 31.3#

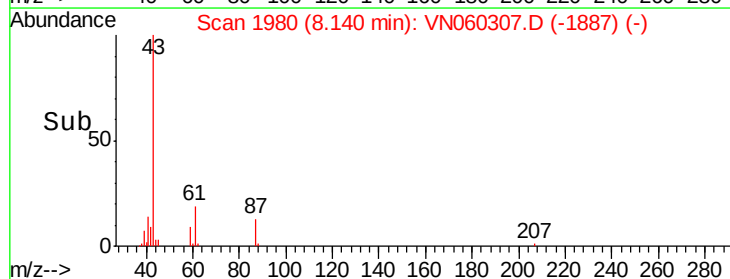
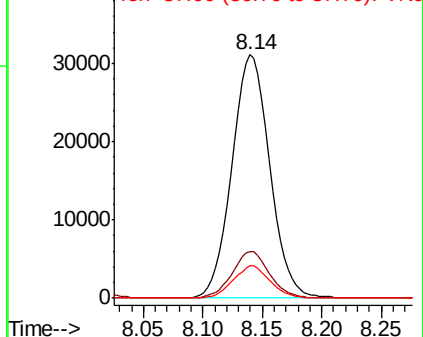
87 12.7 10.6 16.0

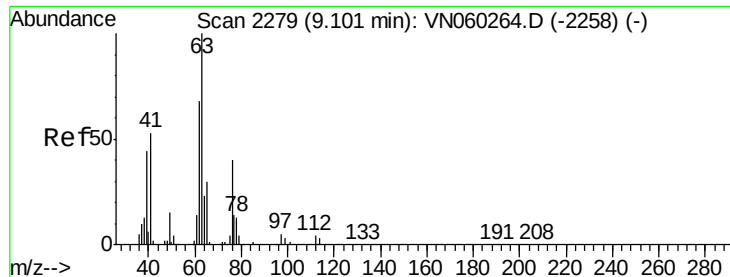


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.535 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

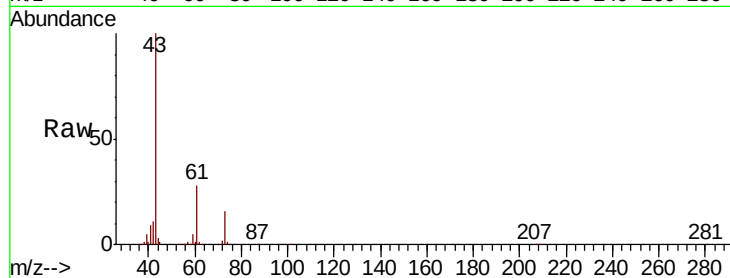
ClientSampleId :

Tot Ion: 63 Resp: 1343

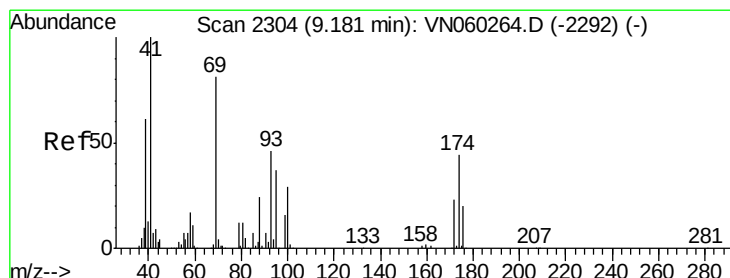
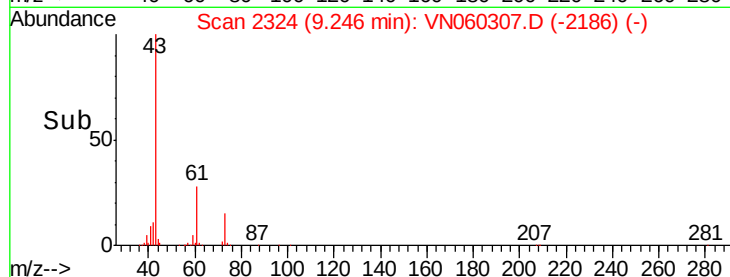
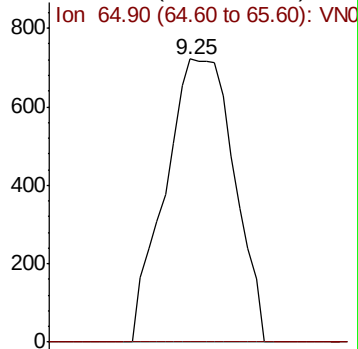
Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060307.D (-2186) (-)



#48

Methyl methacrylate

Concen: 1.454 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

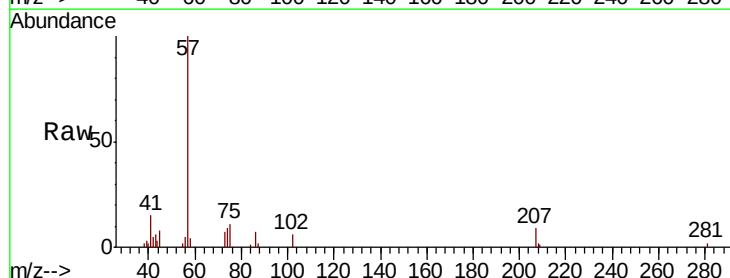
Tgt Ion: 41 Resp: 3624

Ion Ratio Lower Upper

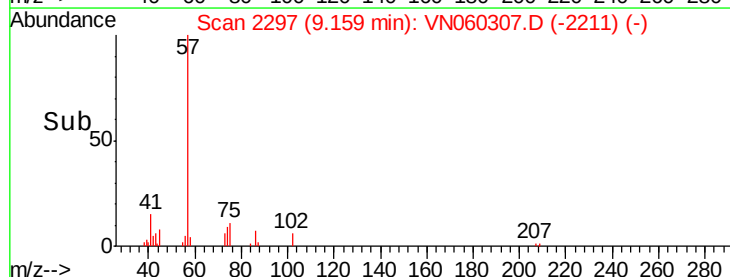
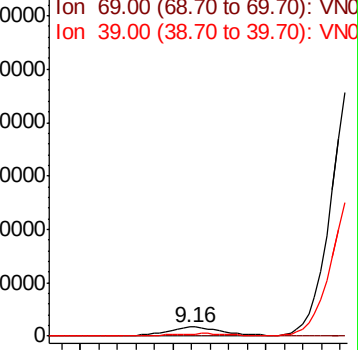
41 100

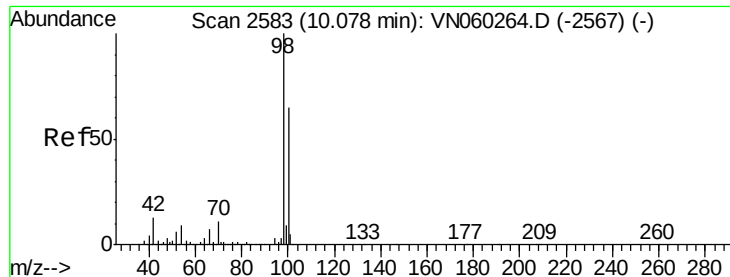
69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN060307.D (-2211) (-)





#50

Toluene-d8

Concen: 52.650 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

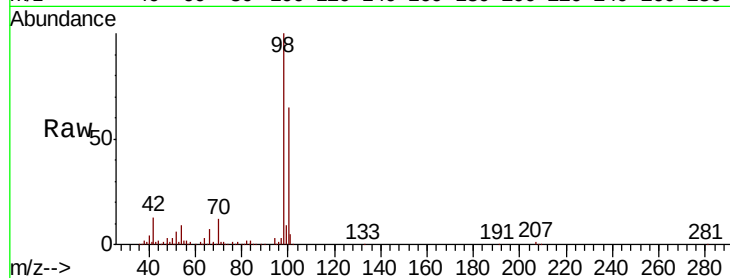
ClientSampled :

Tot Ion: 98 Resp: 427846

Ion Ratio Lower Upper

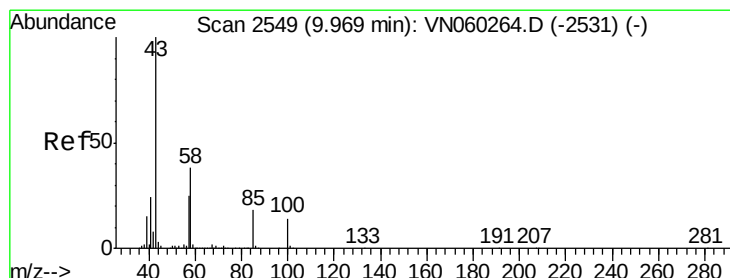
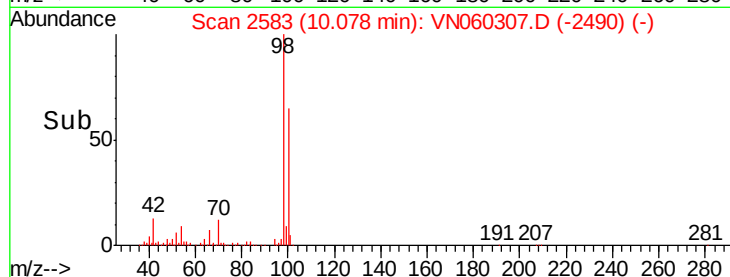
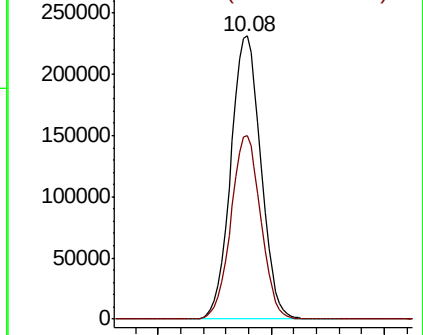
98 100

100 64.4 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: 1.683 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060307.D

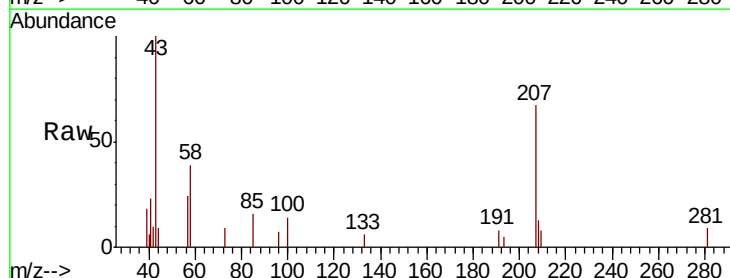
Acq: 2 Mar 2020 13:34

Tgt Ion: 43 Resp: 5214

Ion Ratio Lower Upper

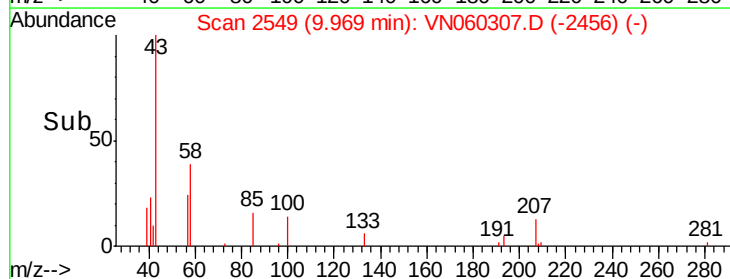
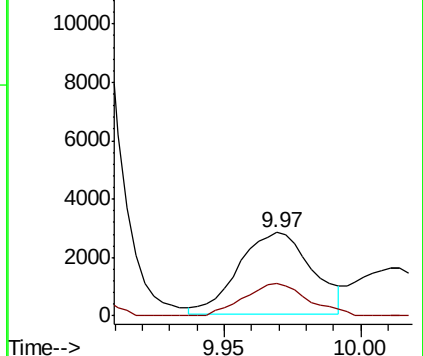
43 100

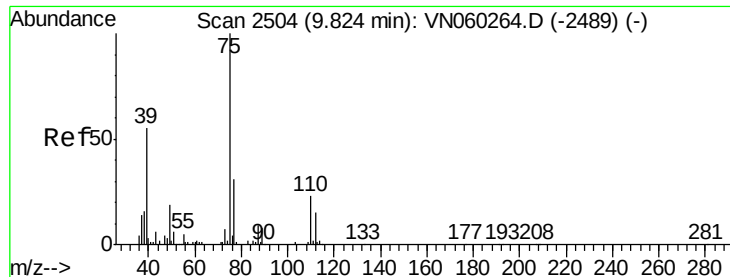
58 34.8 30.9 46.3



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: 6.955 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

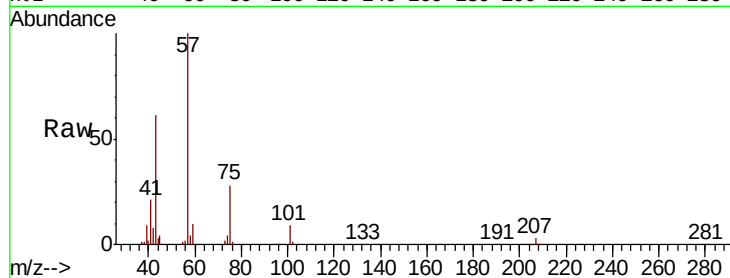
Tot Ion: 75 Resp: 29238

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

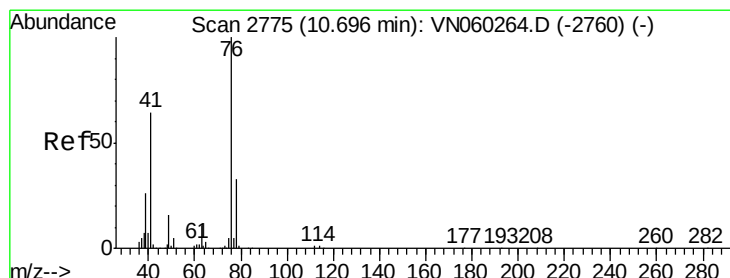
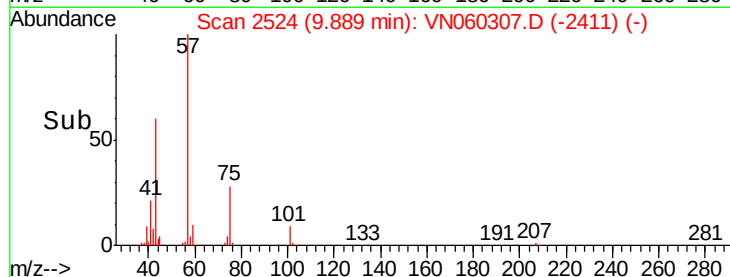
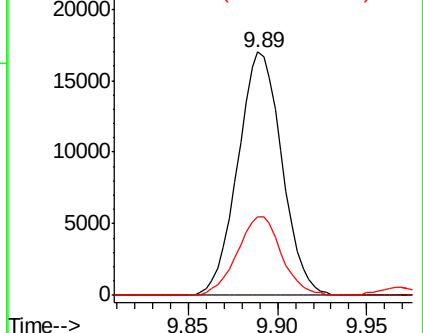
39 32.3 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropene

Concen: 1.250 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060307.D

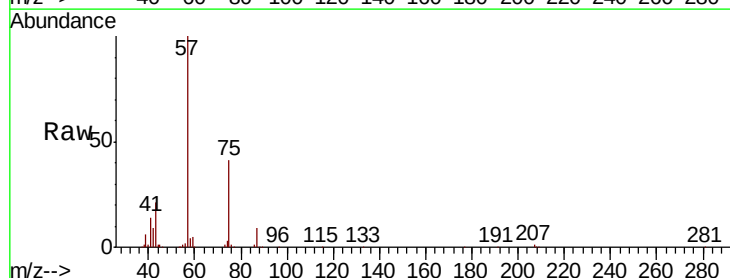
Acq: 2 Mar 2020 13:34

Tgt Ion: 76 Resp: 4942

Ion Ratio Lower Upper

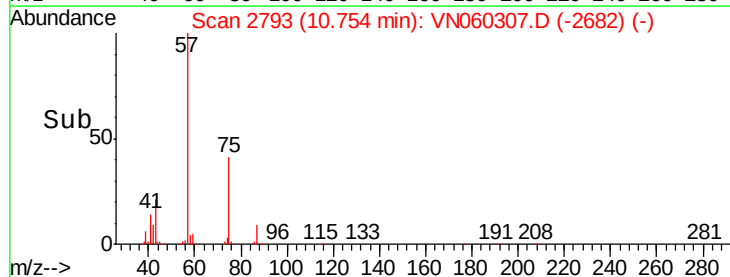
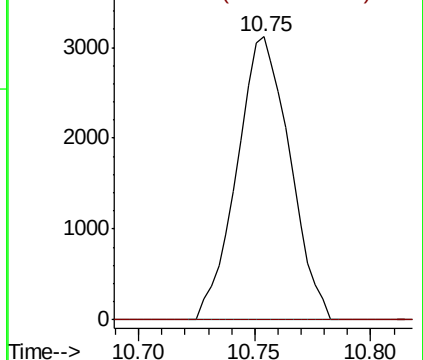
76 100

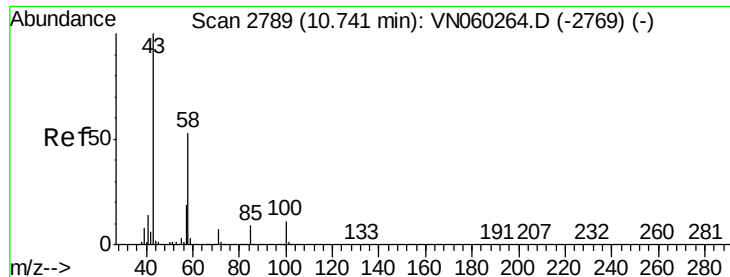
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

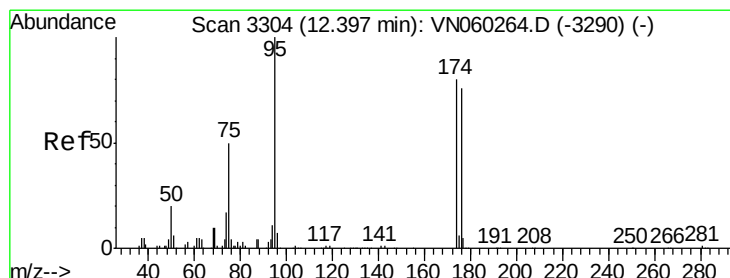
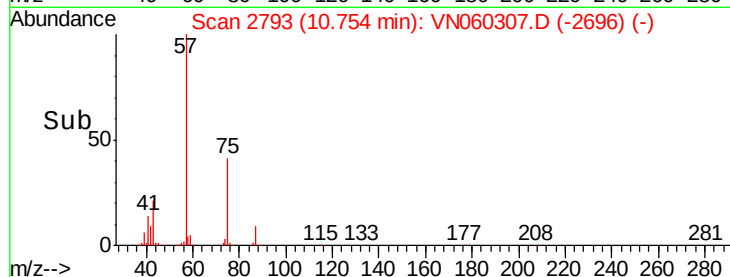
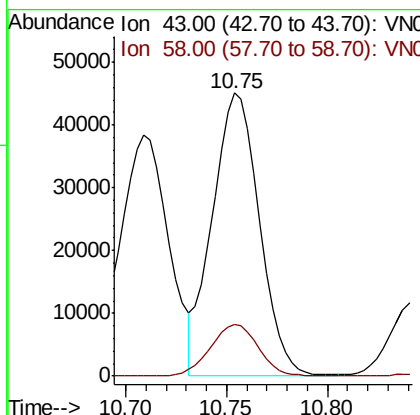
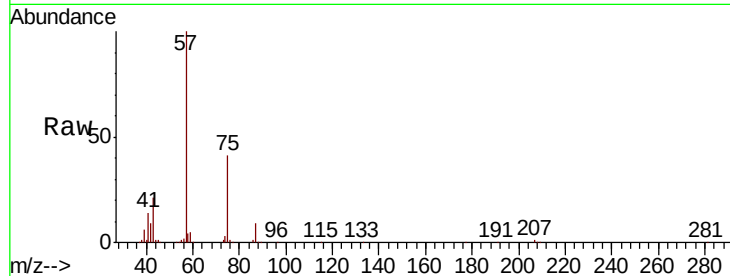




#59
2-Hexanone
Concen: 32.058 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

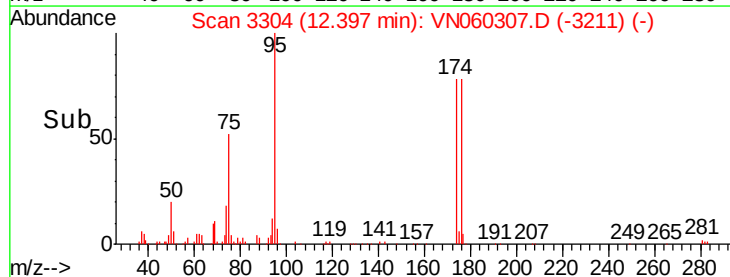
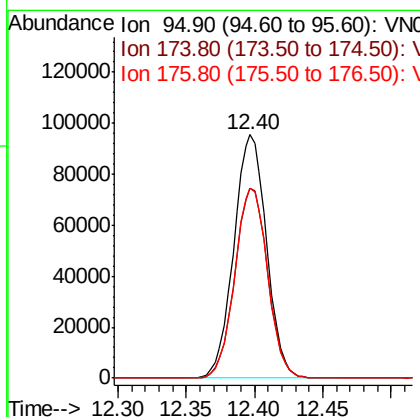
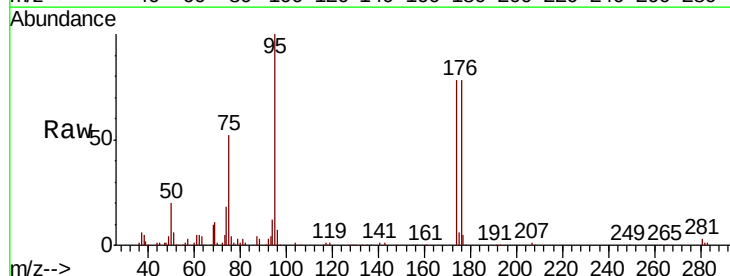
Instrument :
MSVOA_N
ClientSampled :

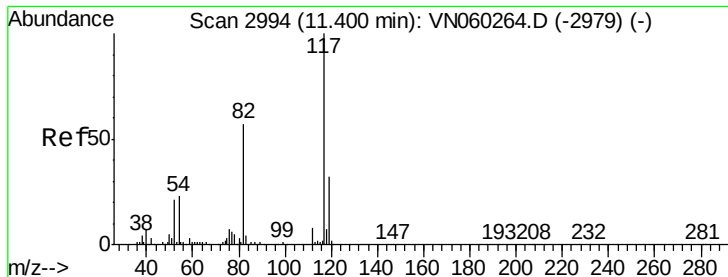
Tot Ion: 43 Resp: 72931
Ion Ratio Lower Upper
43 100
58 18.6 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.489 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Tgt Ion: 95 Resp: 158611
Ion Ratio Lower Upper
95 100
174 78.3 0.0 159.2
176 78.0 0.0 153.8

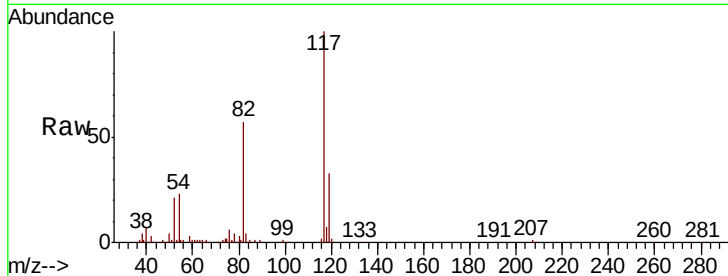




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.6
119	32.7	25.8	38.8

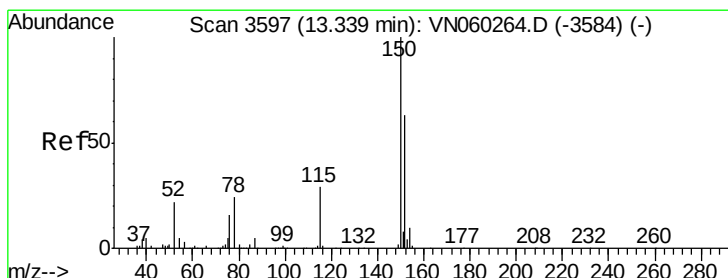
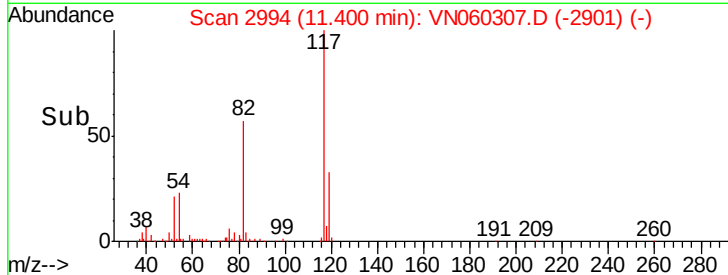
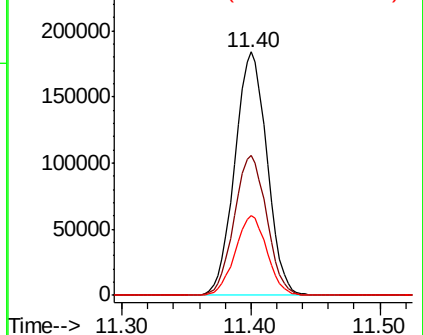


Abundance

Ion 116.90 (116.60 to 117.60): V

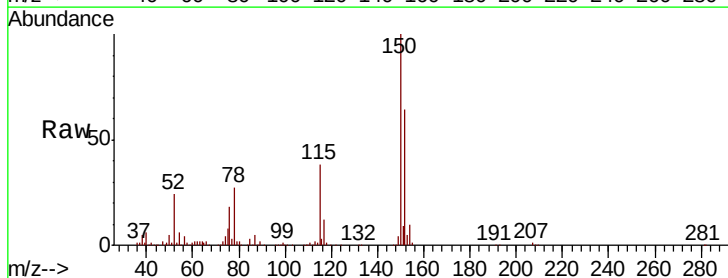
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.4	30.0	90.0
150	156.6	0.0	349.6

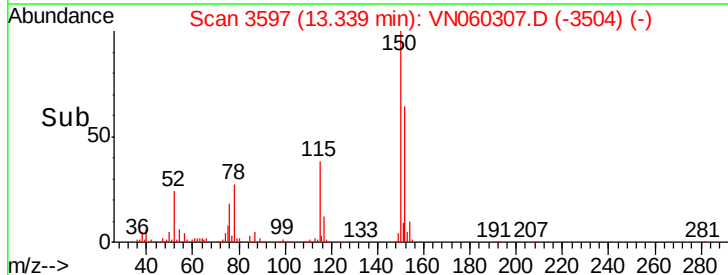
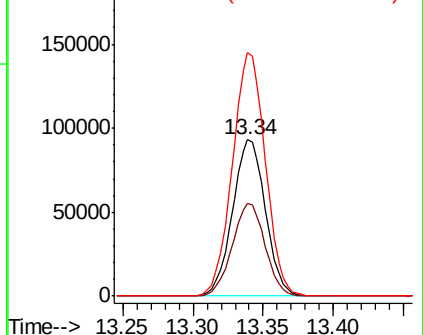


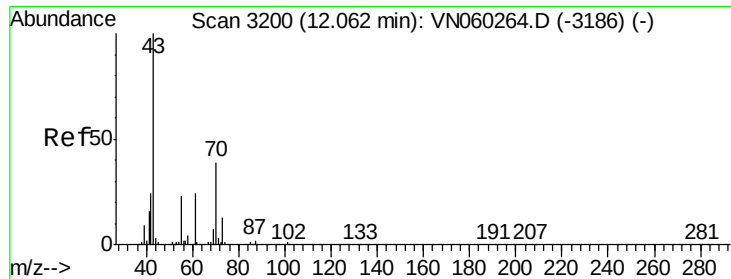
Abundance

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

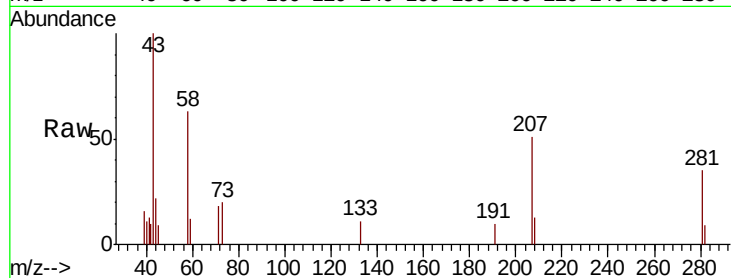




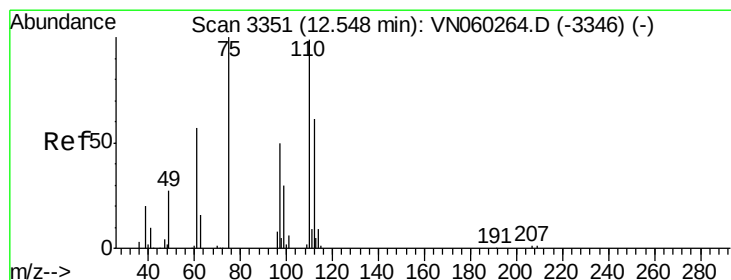
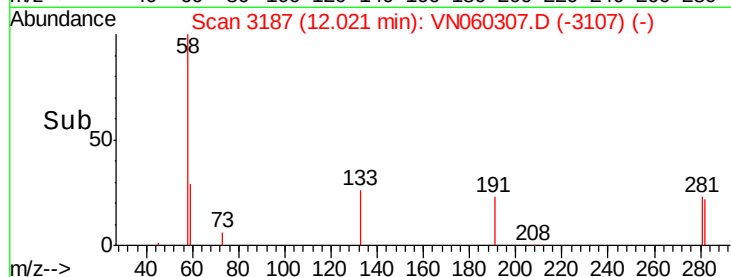
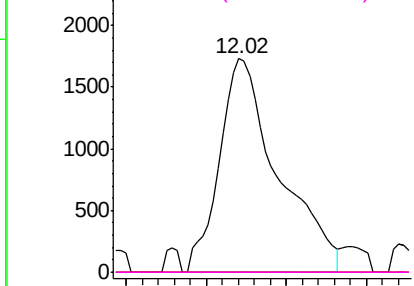
#74
N-amyl acetate
Concen: 0.890 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	43	Resp:	4369
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#

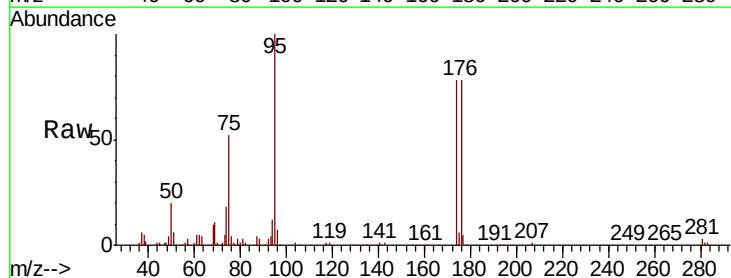


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

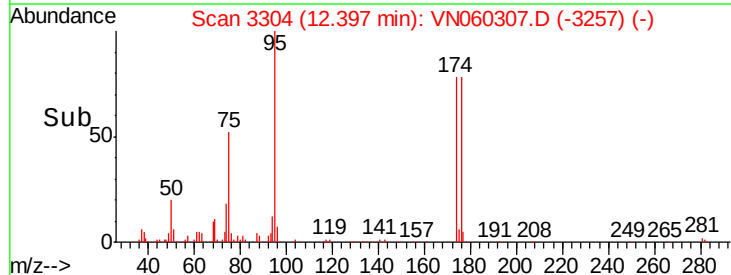
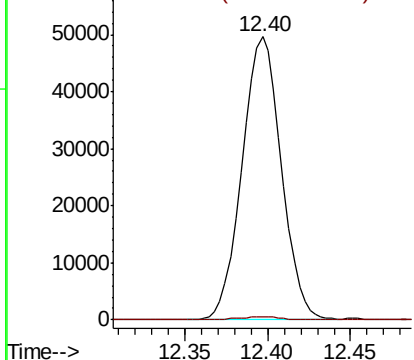


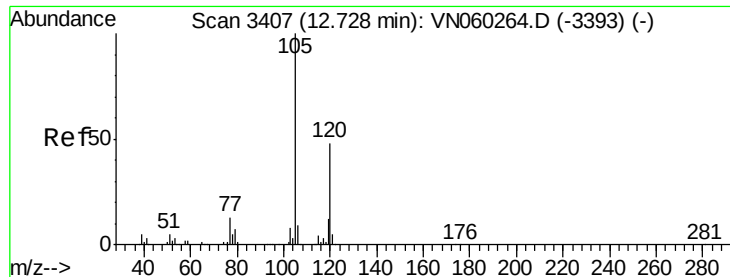
#76
1,2,3-Trichloropropane
Concen: 24.518 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060307.D
Acq: 2 Mar 2020 13:34

Tgt Ion:	75	Resp:	81543
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.562 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

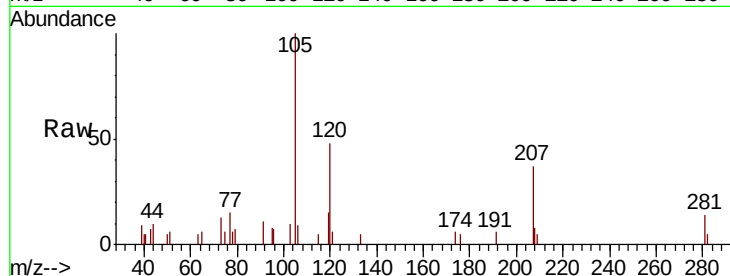
ClientSampleId :

Tot Ion:105 Resp: 5315

Ion Ratio Lower Upper

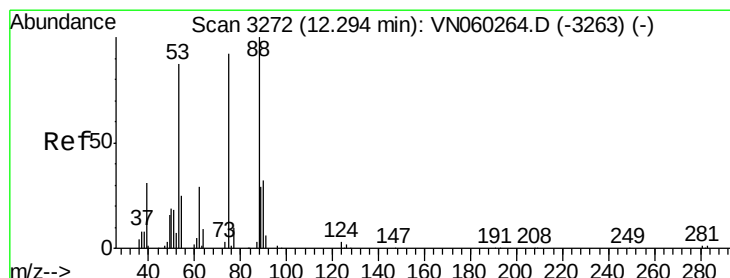
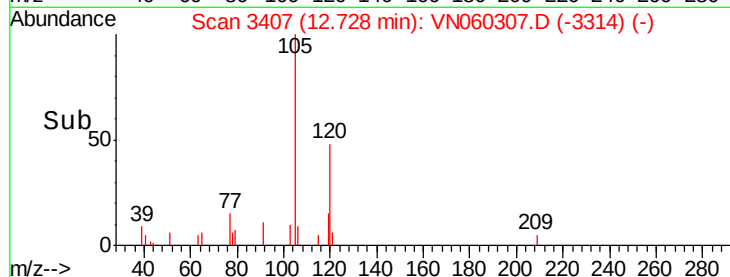
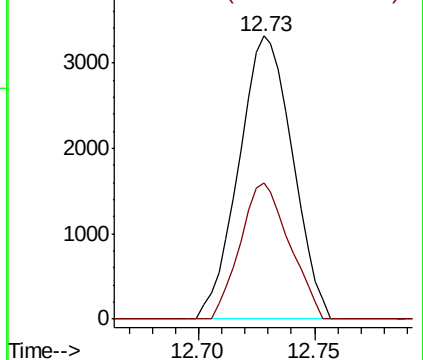
105 100

120 44.1 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: 67.681 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

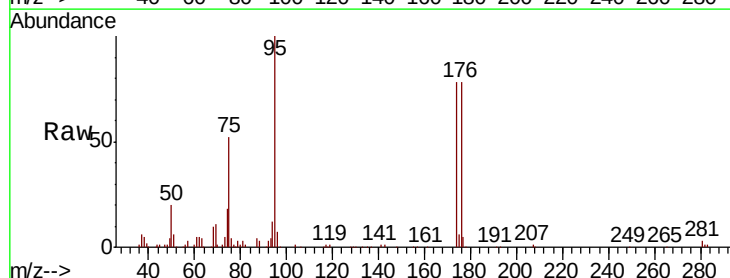
Tgt Ion: 75 Resp: 81543

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

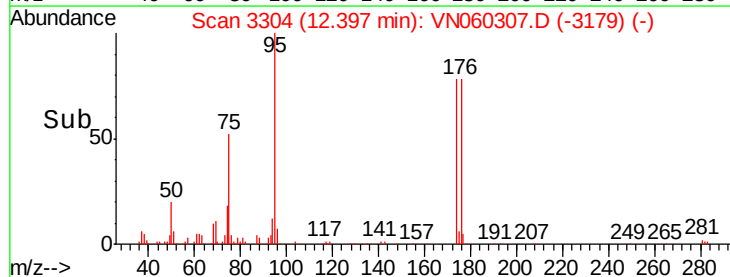
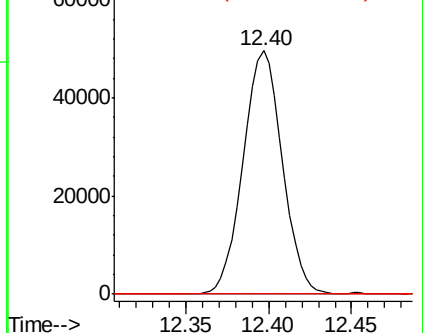
89 0.0 57.1 85.7#

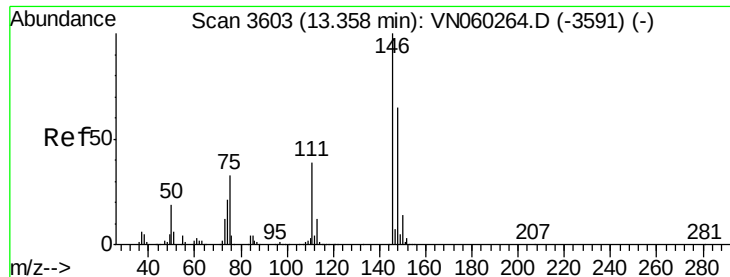


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3605

Delta R.T. 0.01 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

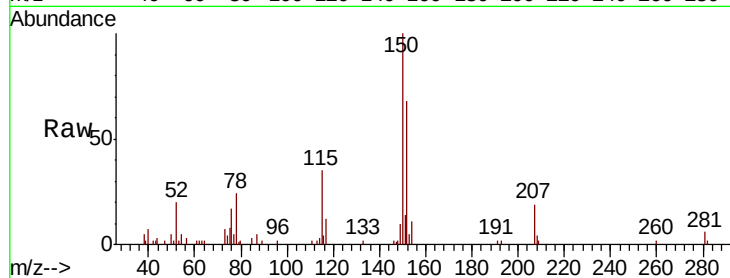
Tot Ion:146 Resp: 345

Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.4#

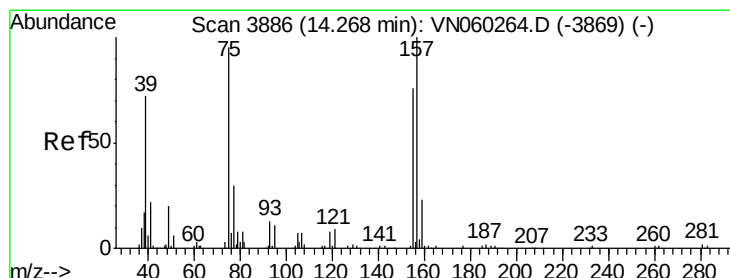
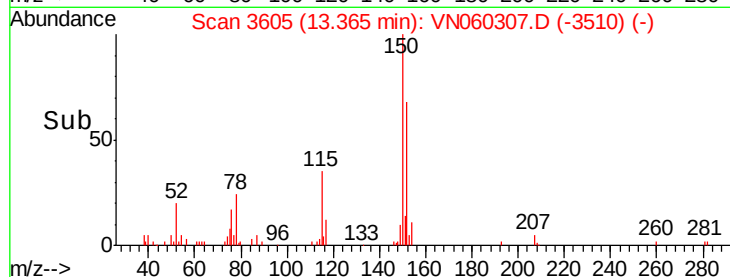
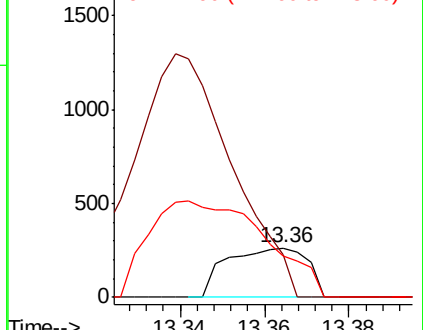
148 0.0 32.3 96.9#



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: 0.789 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN060307.D

Acq: 2 Mar 2020 13:34

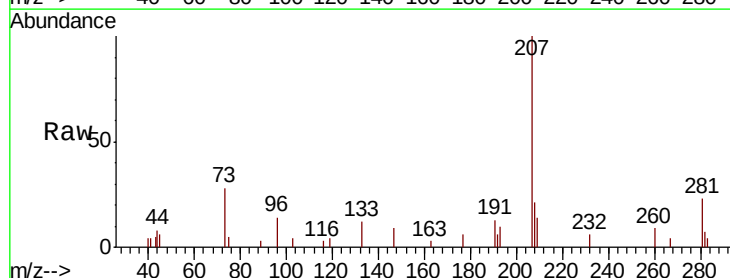
Tgt Ion: 75 Resp: 546

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

