

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060521.D
 Acq On : 16 Mar 2020 14:29
 Operator : JC/MD
 Sample : L1922-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P-2A

Quant Time: Mar 17 08:44:11 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	229944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	383214	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	357953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	159723	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	148370	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
35) Dibromofluoromethane	7.56	113	110251	61.98	ug/l	0.00
Spiked Amount			Recovery	=	123.96%	
50) Toluene-d8	10.08	98	472176	52.45	ug/l	0.00
Spiked Amount			Recovery	=	104.90%	
62) 4-Bromofluorobenzene	12.40	95	175354	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	

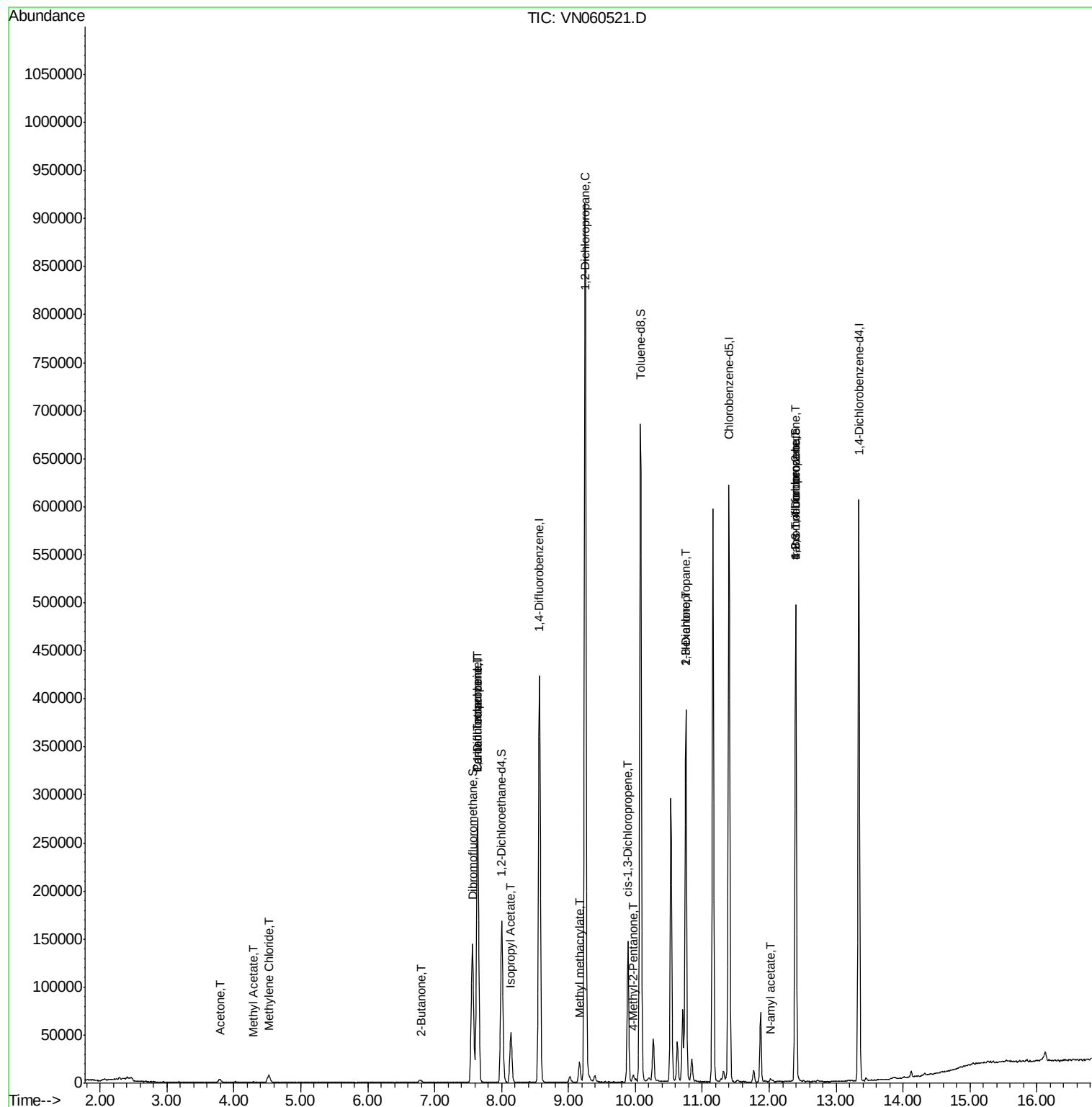
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6800	7.138	ug/l	92
17) Carbon Disulfide	4.03	76	269	Below Cal	#	75
18) Methyl Acetate	4.29	43	1499	0.471	ug/l #	64
20) Methylene Chloride	4.52	84	5905	2.257	ug/l	97
25) 2-Butanone	6.81	43	1527	0.992	ug/l #	49
31) Cyclohexane	7.64	56	4847	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	17906	4.903	ug/l #	49
38) Carbon Tetrachloride	7.64	117	22134	6.225	ug/l #	16
43) Isopropyl Acetate	8.14	43	62077	10.254	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1102	0.397	ug/l #	44
48) Methyl methacrylate	9.16	41	3238	1.173	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5708	1.663	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	26141	5.613	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	4053	0.926	ug/l #	42
59) 2-Hexanone	10.75	43	56709	22.501	ug/l #	53
74) N-amyl acetate	12.02	43	3618	0.699	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	88365	25.216	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	88365	69.608	ug/l #	8
87) 1,3-Dichlorobenzene	13.27	146	145	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	262	Below Cal	#	1
95) Naphthalene	15.13	128	835	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	63	Below Cal	#	12

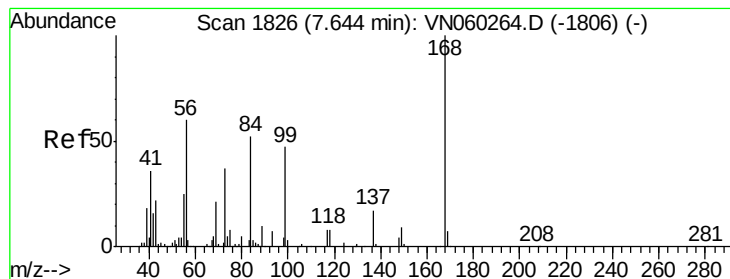
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1825

Delta R.T. -0.00 min

Lab File: VN060521.D

Acq: 16 Mar 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

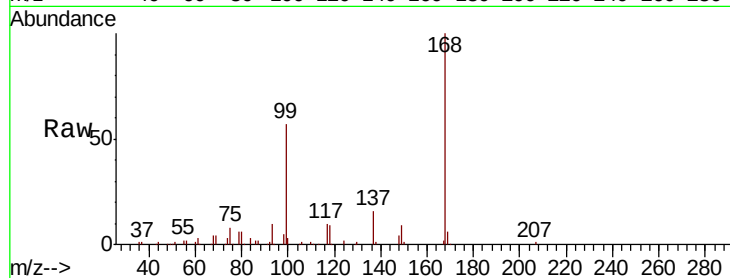
P-2A

Tot Ion:168 Resp: 229944

Ion Ratio Lower Upper

168 100

99 56.8 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

100000

80000

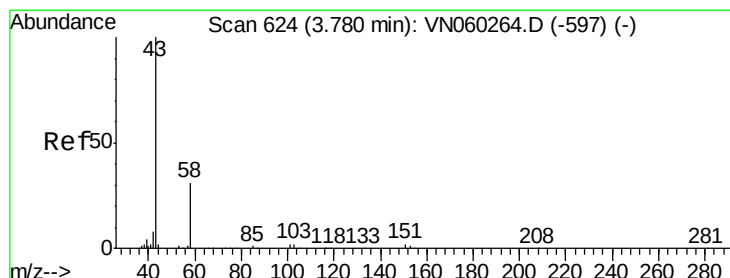
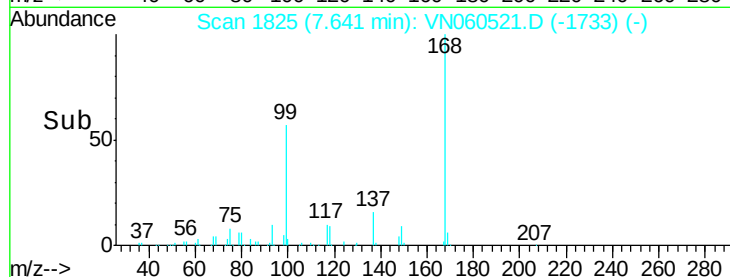
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 7.138 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060521.D

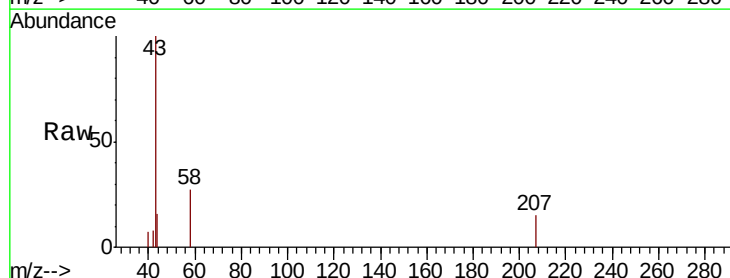
Acq: 16 Mar 2020 14:29

Tgt Ion: 43 Resp: 6800

Ion Ratio Lower Upper

43 100

58 26.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

2500

2000

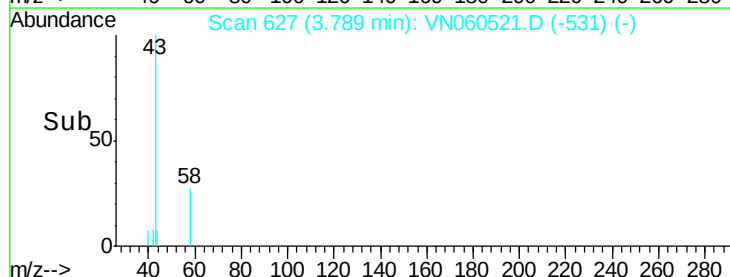
1500

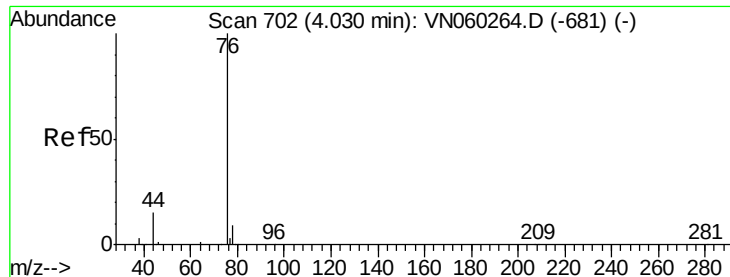
1000

500

0

Time--> 3.70 3.75 3.80 3.85





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060521.D

Acq: 16 Mar 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

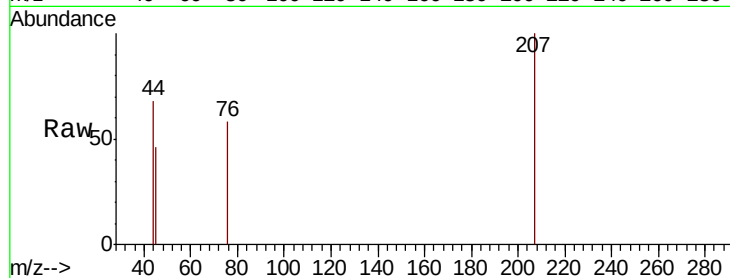
P-2A

Tot Ion: 76 Resp: 269

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

250

200

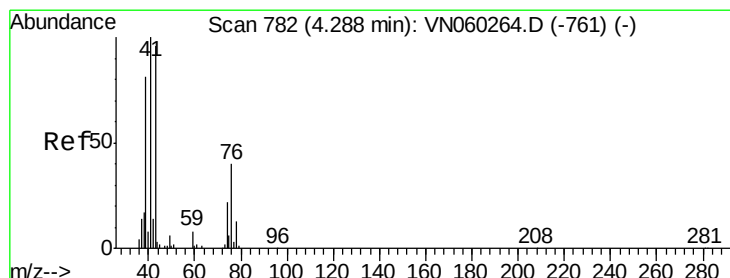
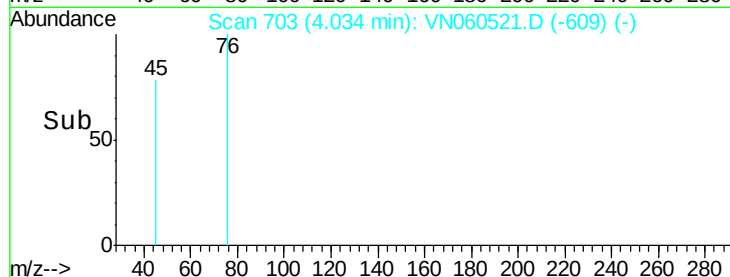
150

100

50

0

Time--> 4.00 4.02 4.04



#18

Methyl Acetate

Concen: 0.471 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060521.D

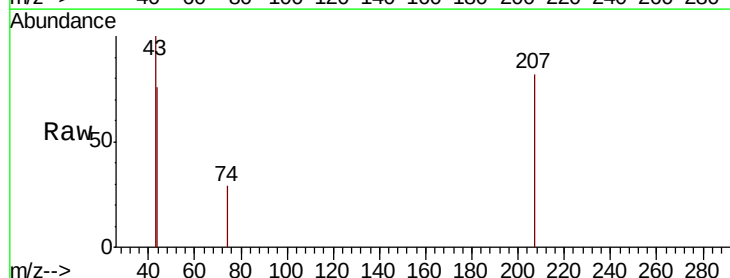
Acq: 16 Mar 2020 14:29

Tgt Ion: 43 Resp: 1499

Ion Ratio Lower Upper

43 100

74 5.9 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

600

500

400

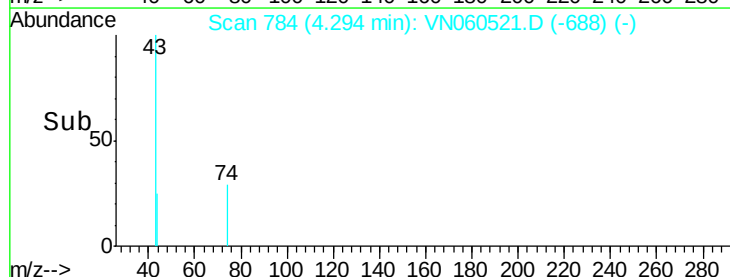
300

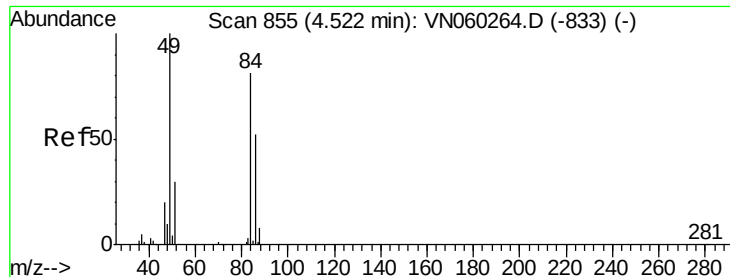
200

100

0

Time--> 4.25 4.30 4.35

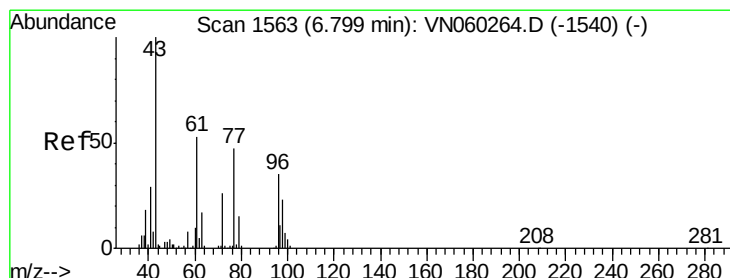
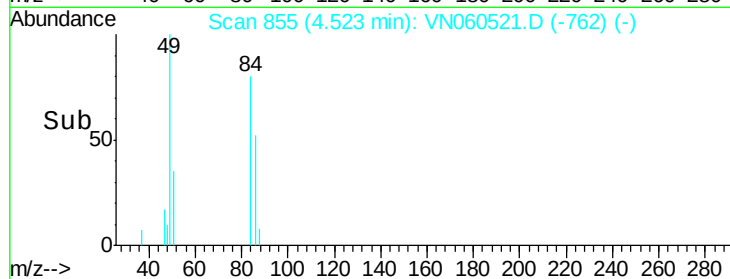
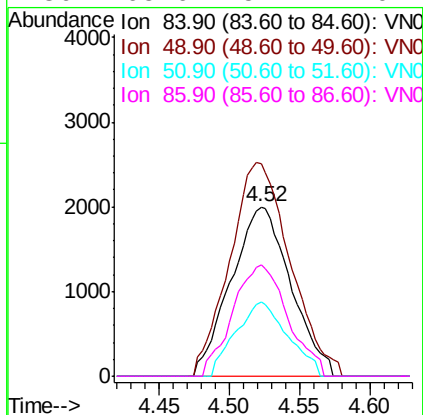
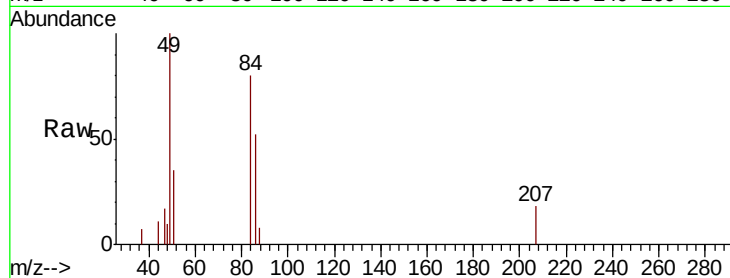




#20
Methvlene Chloride
Concen: 2.257 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

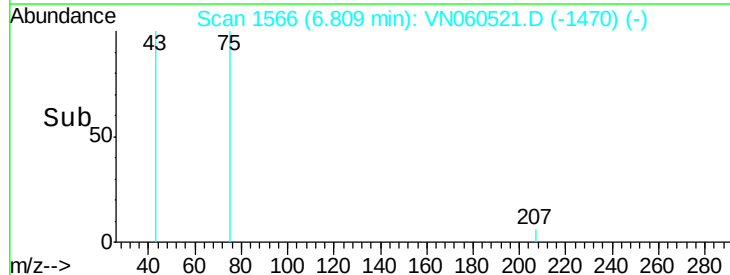
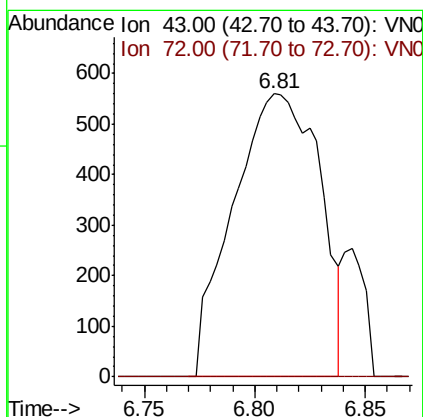
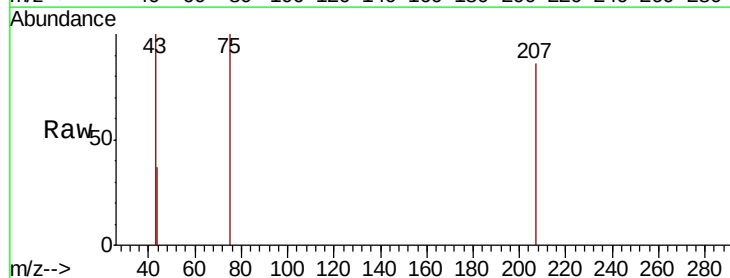
Instrument :
MSVOA_N
ClientSampleId :
P-2A

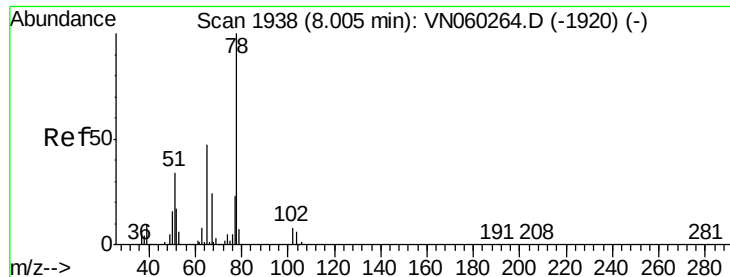
Tot Ion:	84	Resp:	5905
Ion	Ratio	Lower	Upper
84	100		
49	125.7	99.3	148.9
51	43.6	30.1	45.1
86	65.6	51.1	76.7



#25
2-Butanone
Concen: 0.992 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Tgt Ion:	43	Resp:	1527
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#

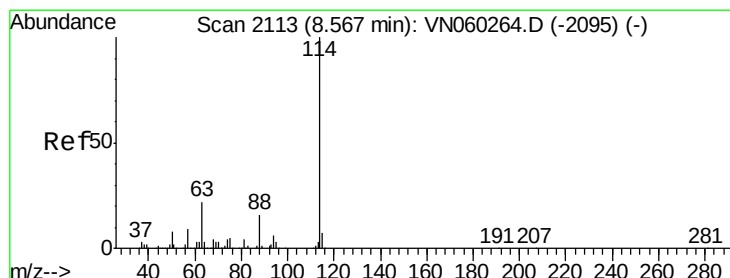
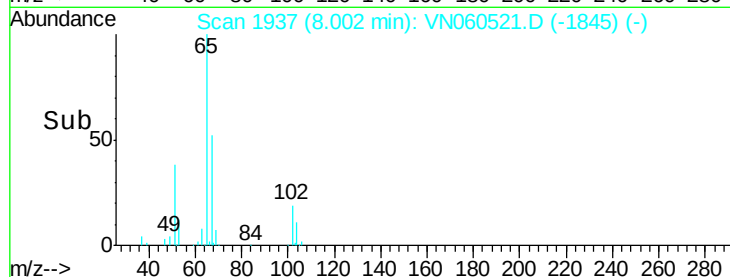
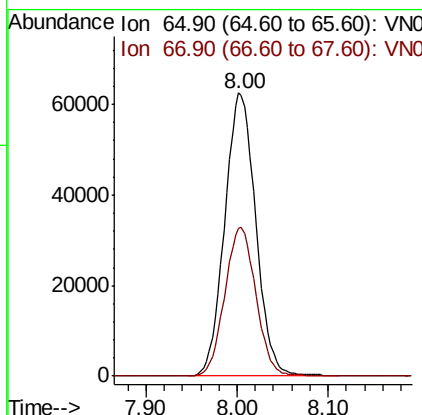
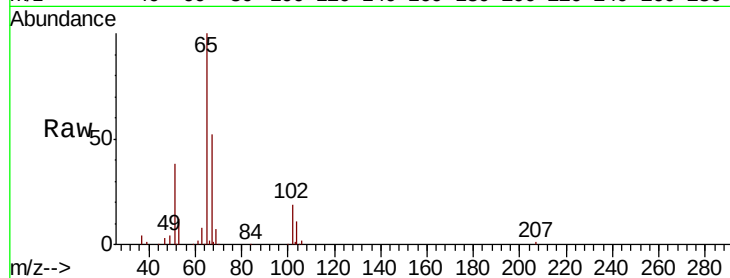




#33
 1,2-Dichloroethane-d4
 Concen: 50.291 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060521.D
 Acq: 16 Mar 2020 14:29

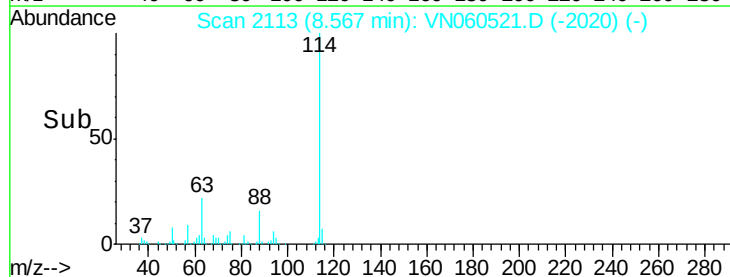
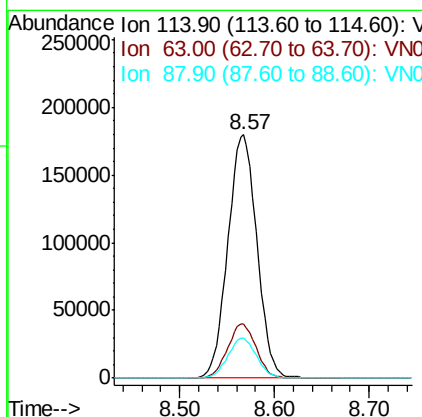
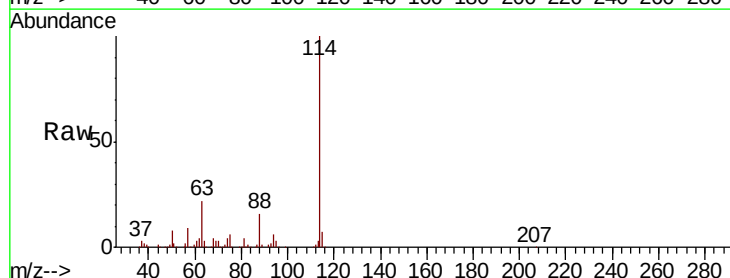
Instrument :
 MSVOA_N
 ClientSampleId :
 P-2A

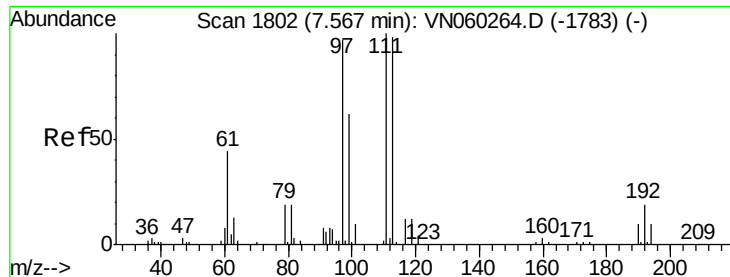
Tot Ion: 65 Resp: 148370
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060521.D
 Acq: 16 Mar 2020 14:29

Tgt Ion: 114 Resp: 383214
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.2
 88 16.4 0.0 31.6

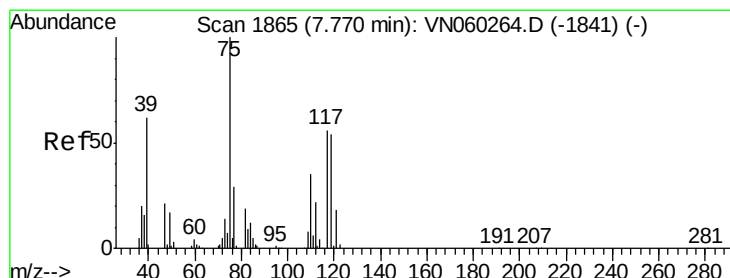
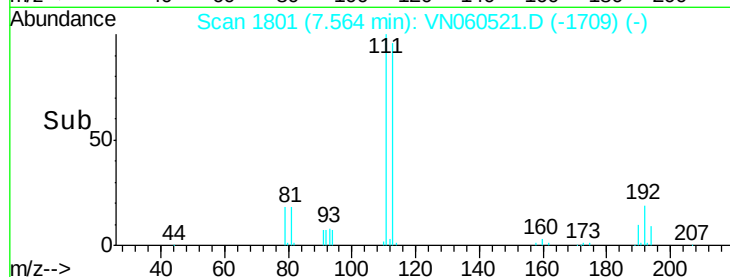
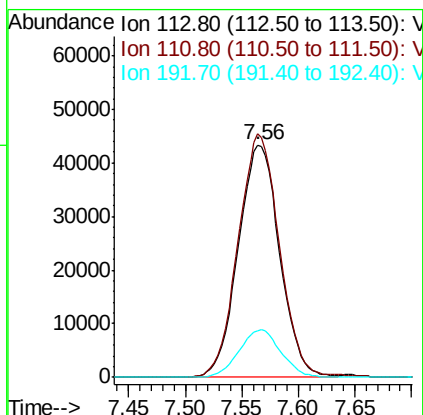
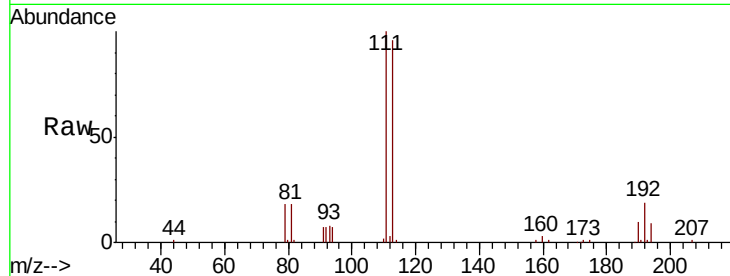




#35
 Dibromofluoromethane
 Concen: 61.982 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060521.D
 Acq: 16 Mar 2020 14:29

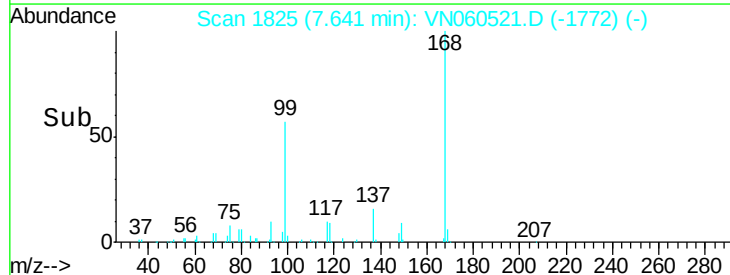
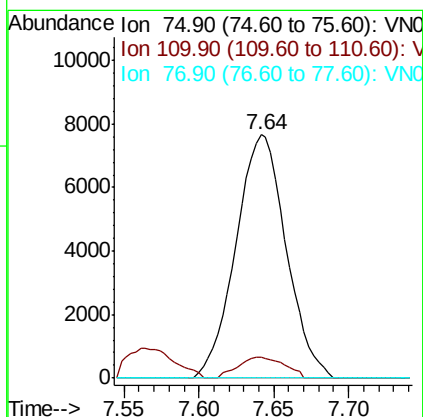
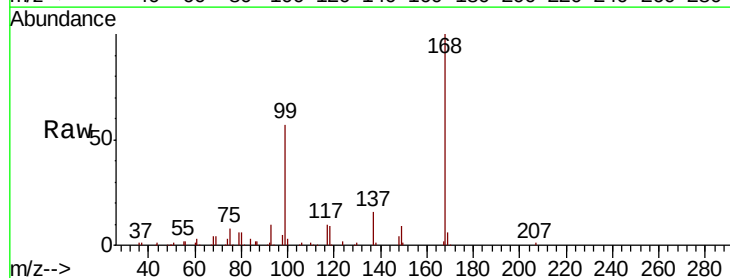
Instrument :
 MSVOA_N
 ClientSampleId :
 P-2A

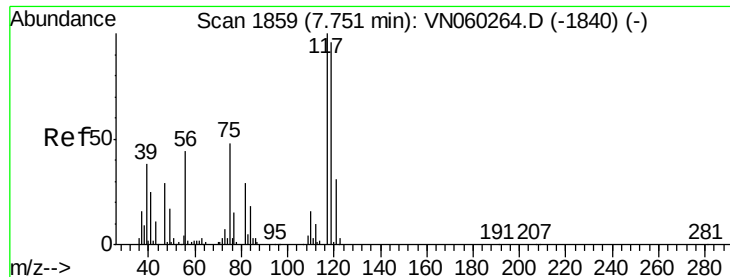
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	20.4	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.903 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060521.D
 Acq: 16 Mar 2020 14:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.225 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060521.D

Acq: 16 Mar 2020 14:29

Instrument :

MSVOA_N

ClientSampled :

P-2A

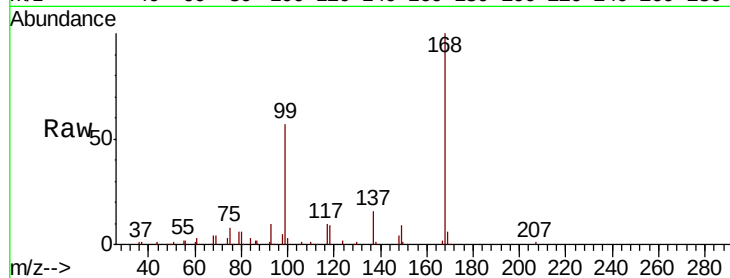
Tot Ion:117 Resp: 22134

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

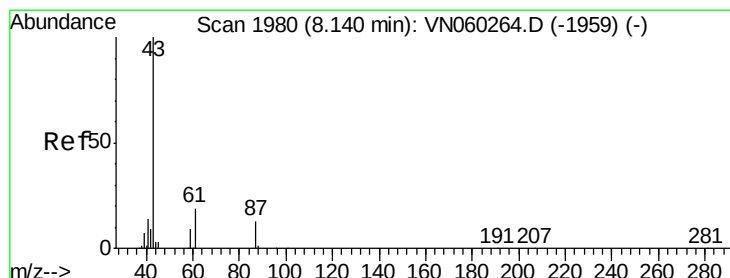
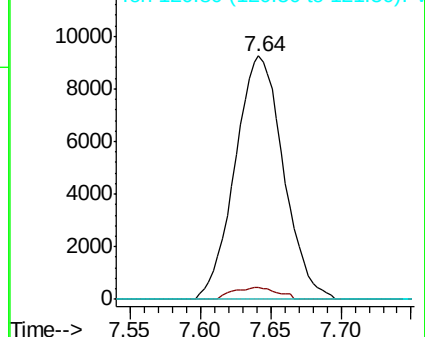
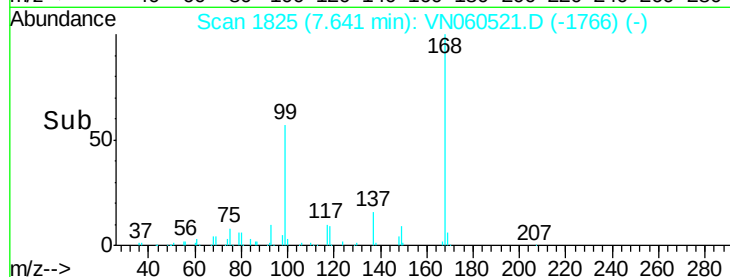
121 0.0 24.5 36.7#



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: 10.254 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060521.D

Acq: 16 Mar 2020 14:29

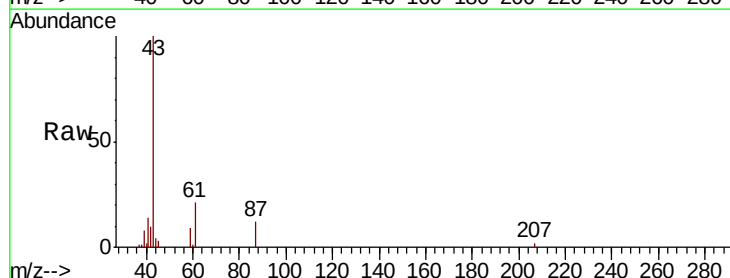
Tgt Ion: 43 Resp: 62077

Ion Ratio Lower Upper

43 100

61 20.0 20.9 31.3#

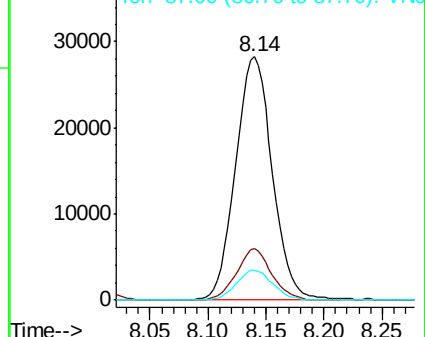
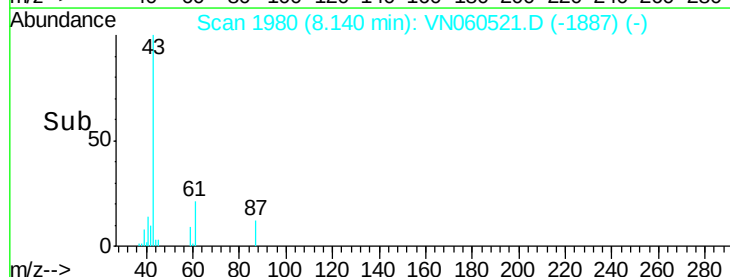
87 12.1 10.6 16.0

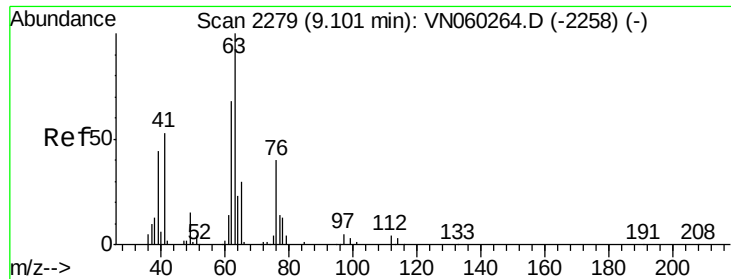


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

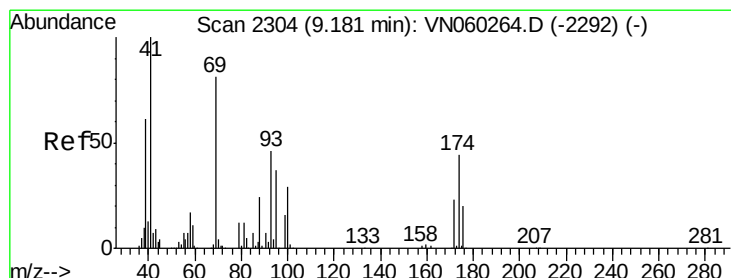
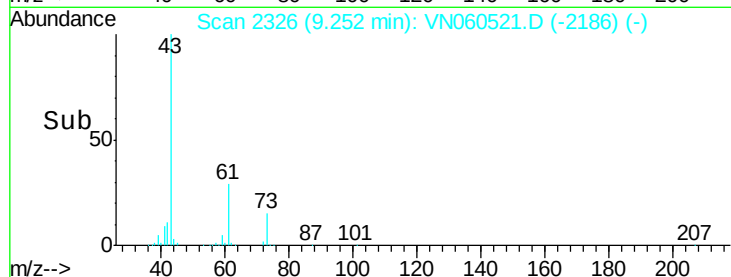
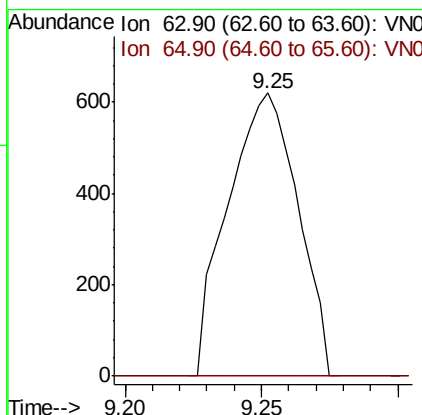
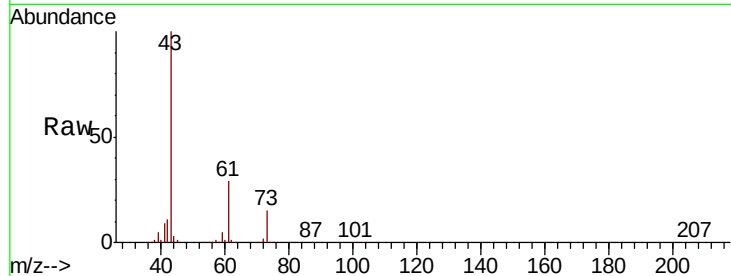




#45
 1,2-Dichloropropane
 Concen: 0.397 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060521.D
 Acq: 16 Mar 2020 14:29

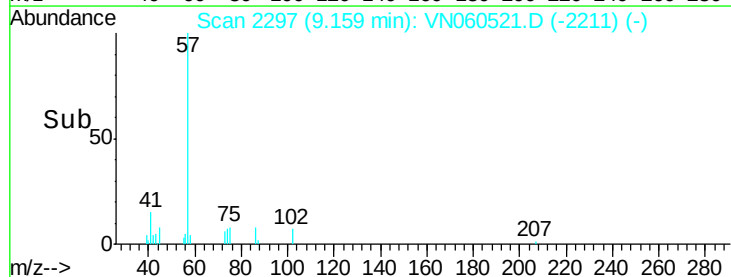
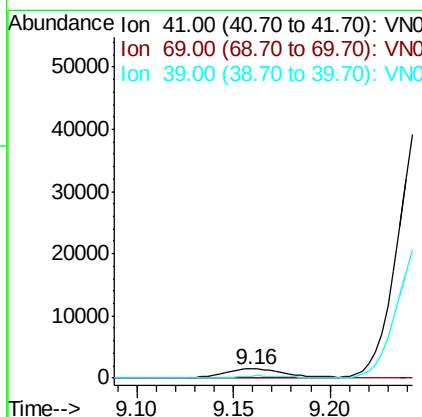
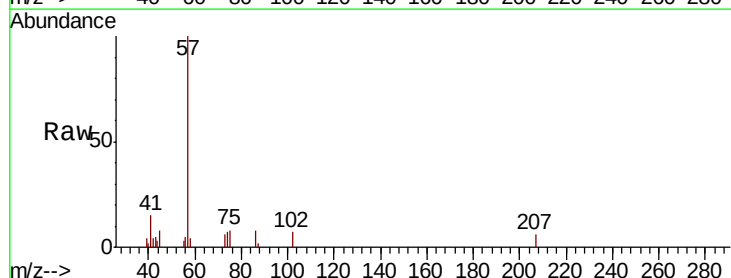
Instrument :
 MSVOA_N
 ClientSampled :
 P-2A

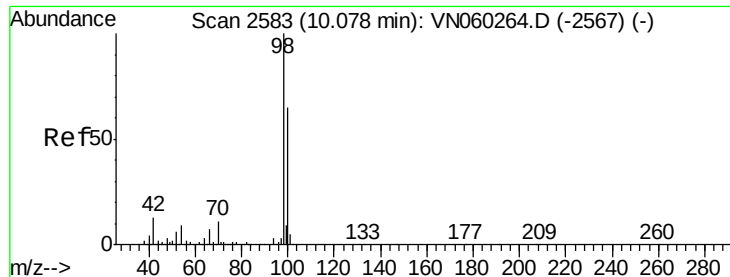
Tot Ion: 63 Resp: 1102
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.173 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060521.D
 Acq: 16 Mar 2020 14:29

Tgt Ion: 41 Resp: 3238
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.449 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060521.D

Acq: 16 Mar 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

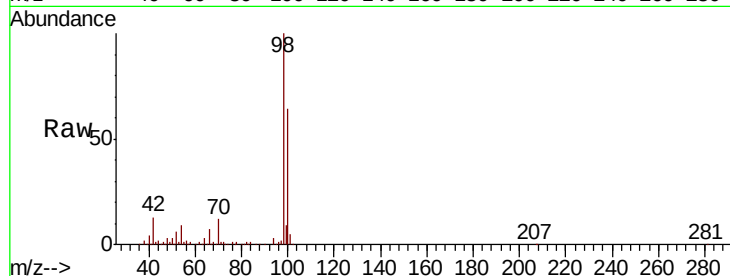
P-2A

Tot Ion: 98 Resp: 472176

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060264.D (-2567) (-)

10.08

250000

200000

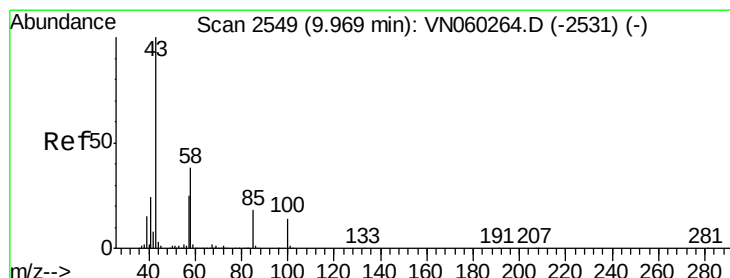
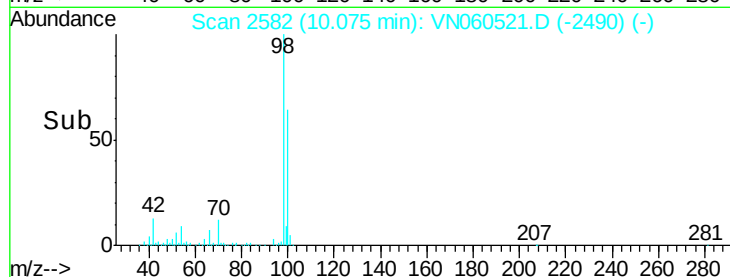
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.663 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060521.D

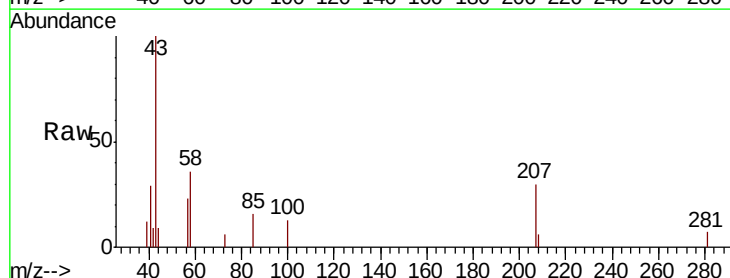
Acq: 16 Mar 2020 14:29

Tgt Ion: 43 Resp: 5708

Ion Ratio Lower Upper

43 100

58 34.2 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

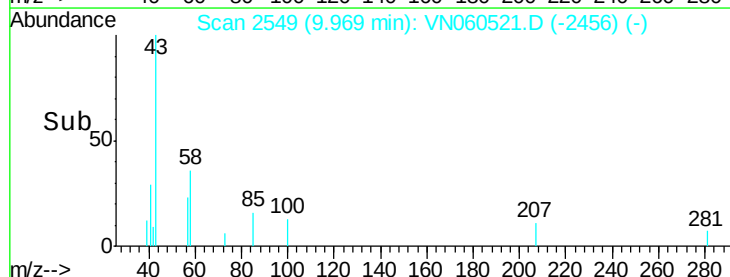
Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)

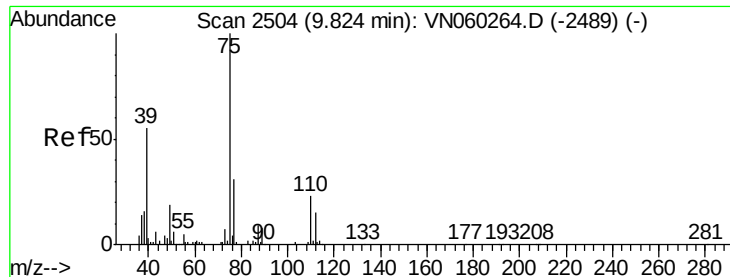
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.613 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060521.D

Acq: 16 Mar 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

P-2A

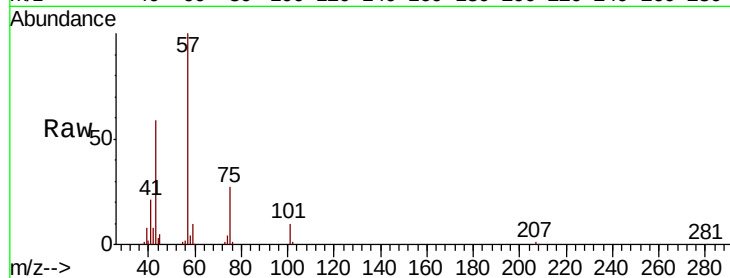
Tot Ion: 75 Resp: 26141

Ion Ratio Lower Upper

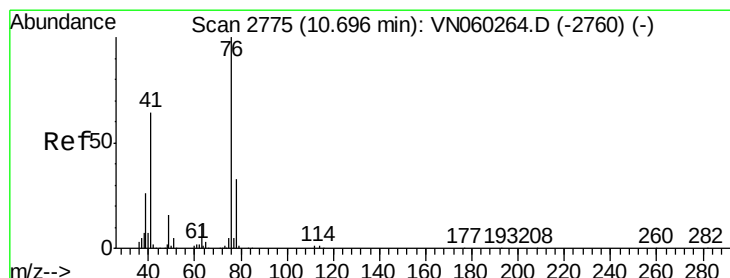
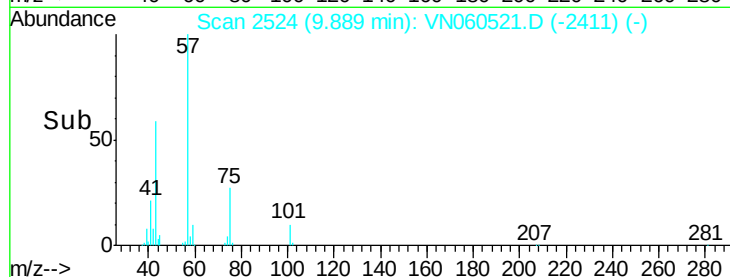
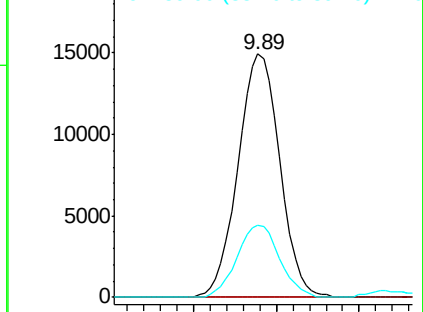
75 100

77 0.0 24.8 37.2#

39 29.6 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.926 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060521.D

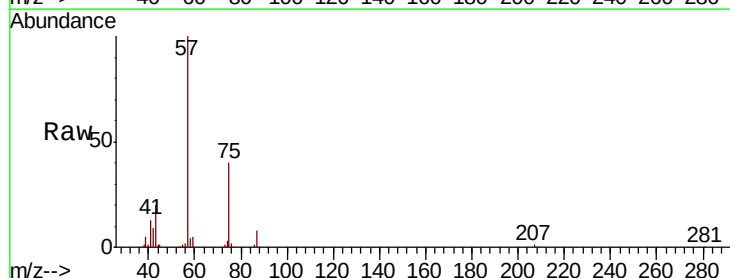
Acq: 16 Mar 2020 14:29

Tgt Ion: 76 Resp: 4053

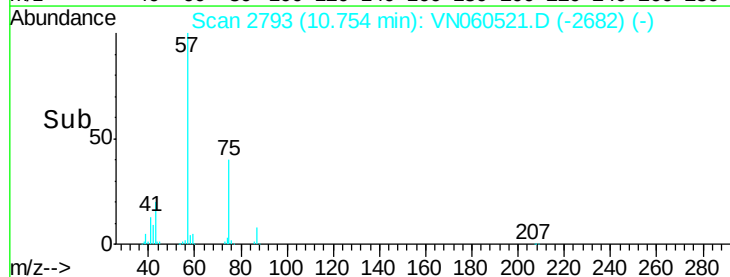
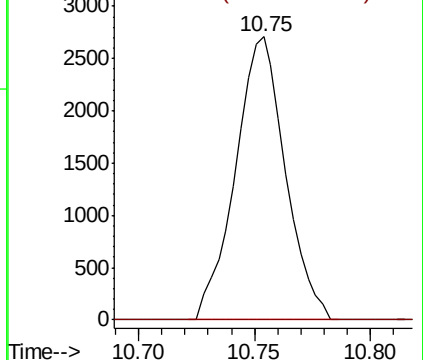
Ion Ratio Lower Upper

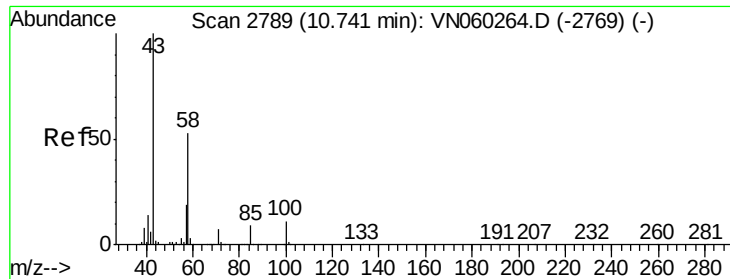
76 100

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

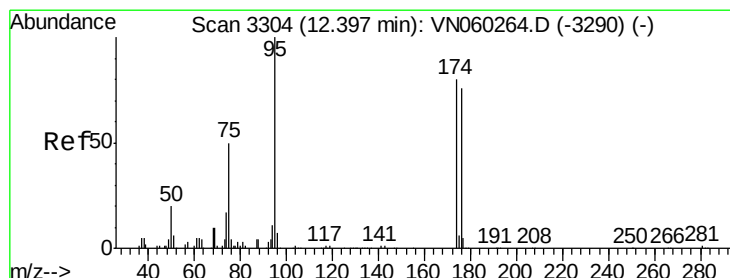
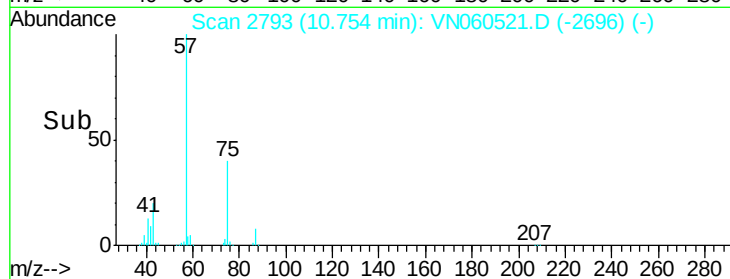
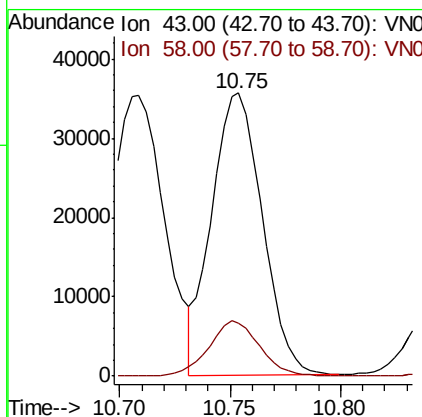
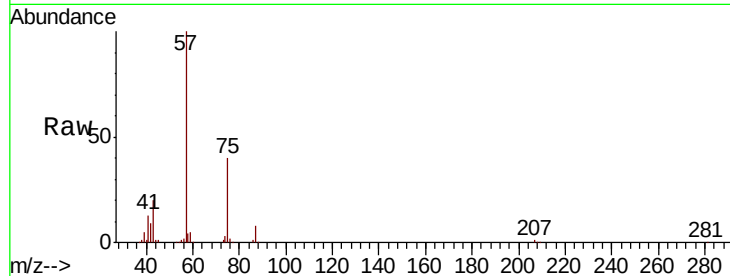




#59
2-Hexanone
Concen: 22.501 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

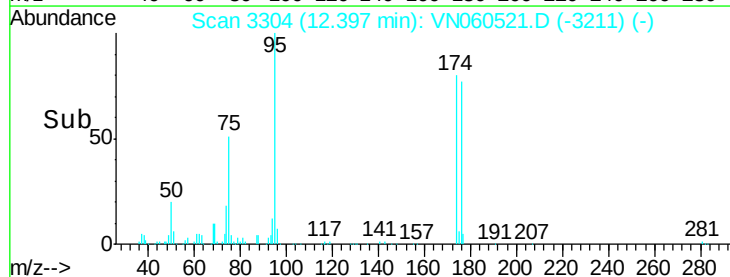
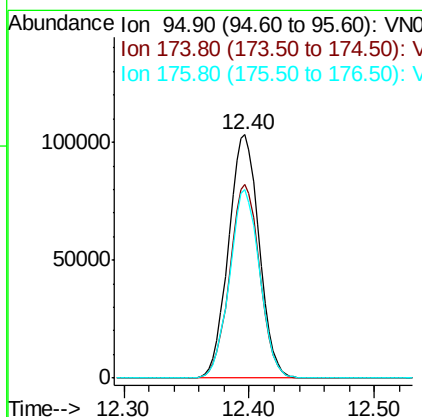
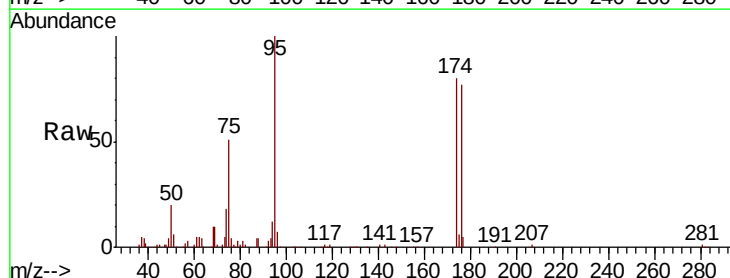
Instrument :
MSVOA_N
ClientSampleId :
P-2A

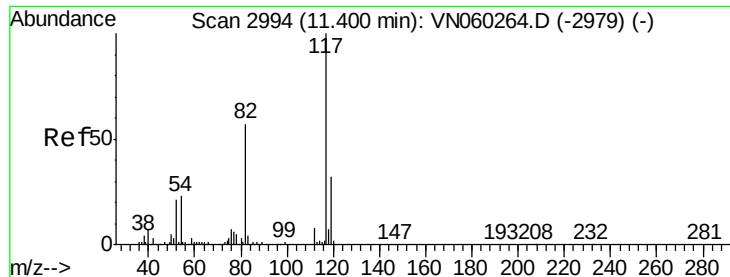
Tot Ion: 43 Resp: 56709
Ion Ratio Lower Upper
43 100
58 19.5 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.384 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Tgt Ion: 95 Resp: 175354
Ion Ratio Lower Upper
95 100
174 78.1 0.0 159.2
176 76.1 0.0 153.8

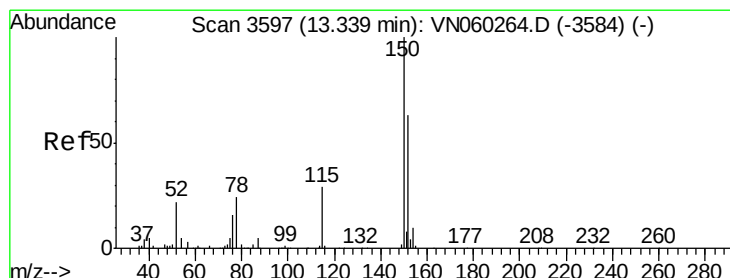
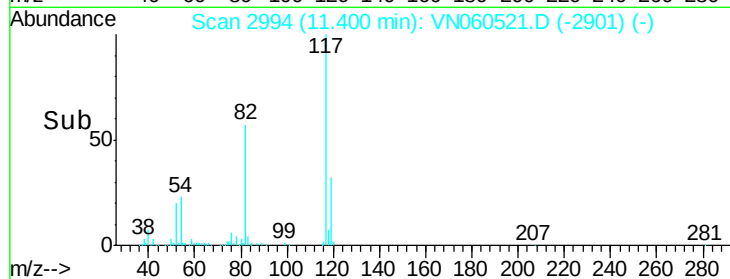
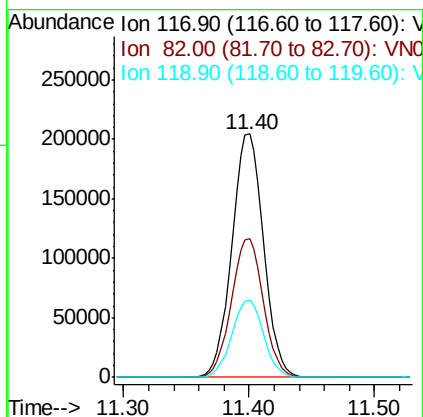
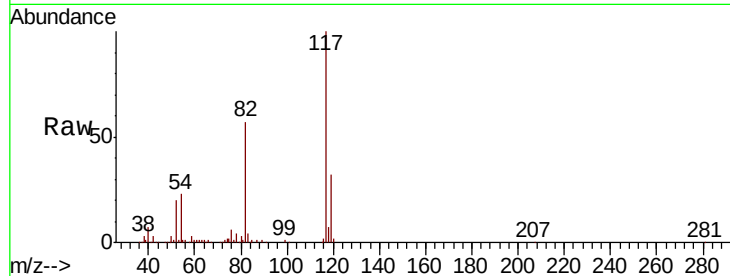




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

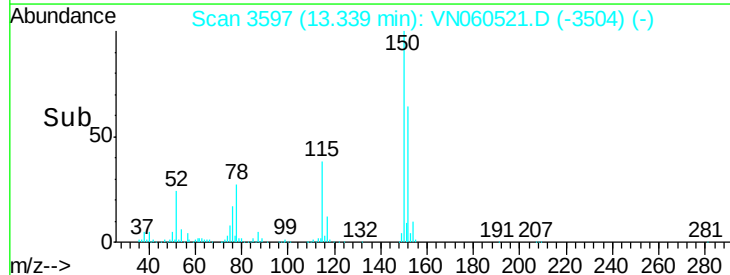
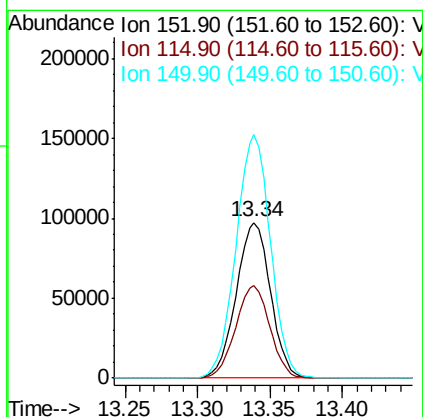
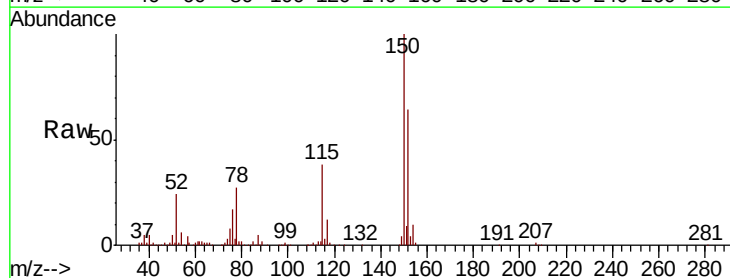
Instrument :
MSVOA_N
ClientSampled :
P-2A

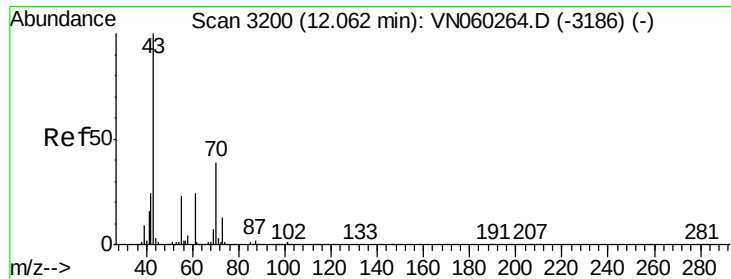
Tot Ion:117 Resp: 357953
Ion Ratio Lower Upper
117 100
82 56.7 45.8 68.6
119 31.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Tgt Ion:152 Resp: 159723
Ion Ratio Lower Upper
152 100
115 59.4 30.0 90.0
150 157.3 0.0 349.6

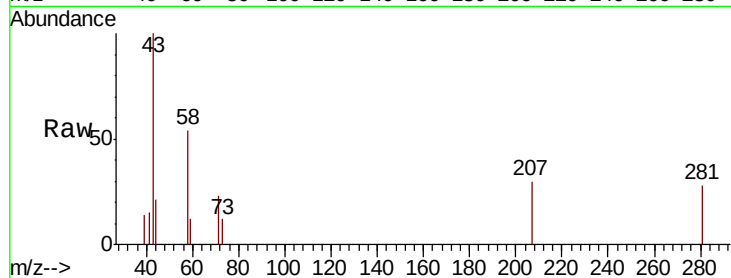




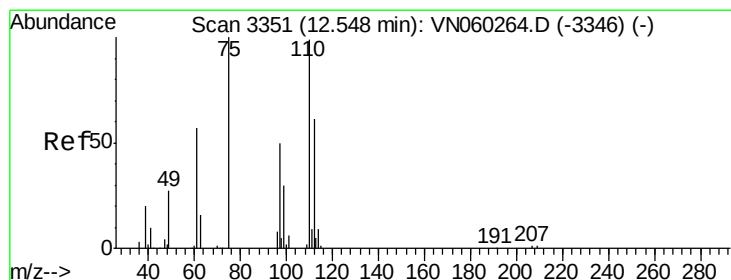
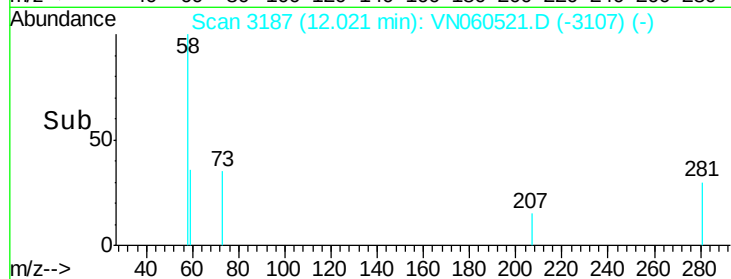
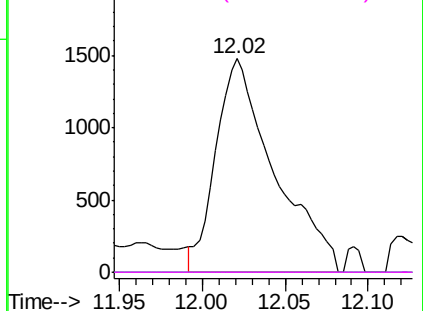
#74
N-amvl acetate
Concen: 0.699 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Instrument :
MSVOA_N
ClientSampleId :
P-2A

Tot Ion:	43	Resp:	3618
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#

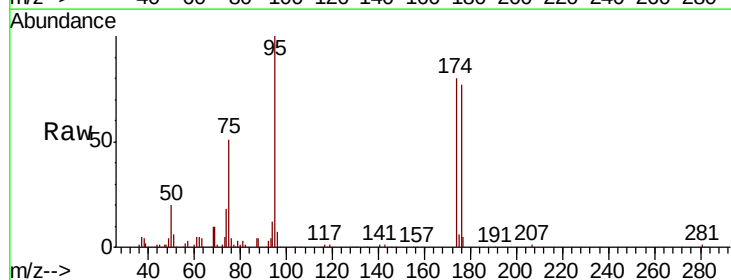


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

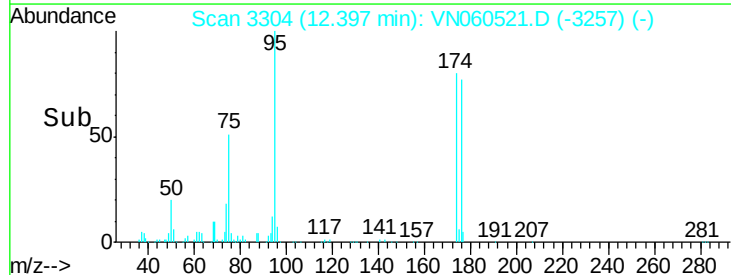
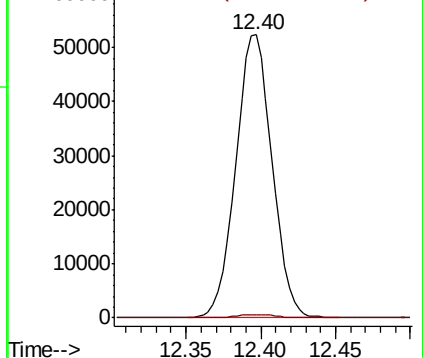


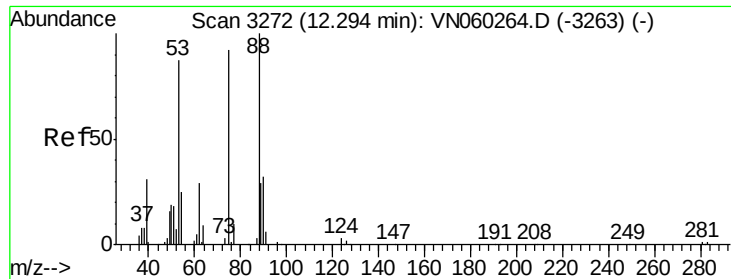
#76
1,2,3-Trichloropropane
Concen: 25.216 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Tgt Ion:	75	Resp:	88365
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#



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

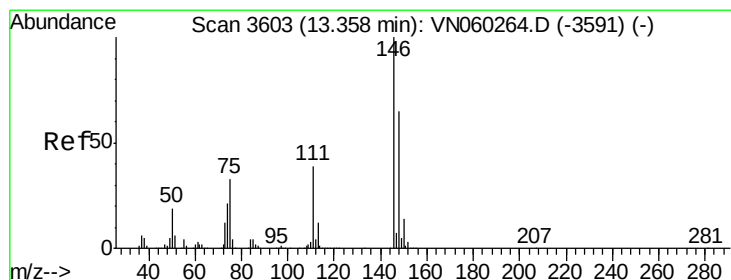
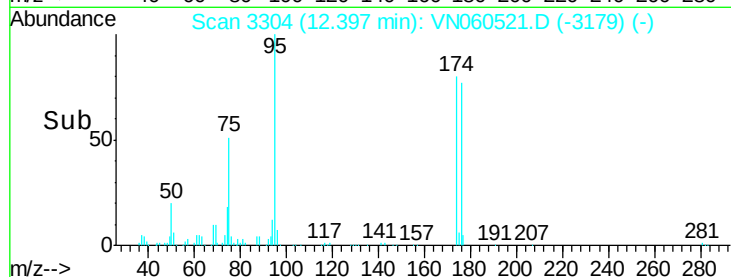
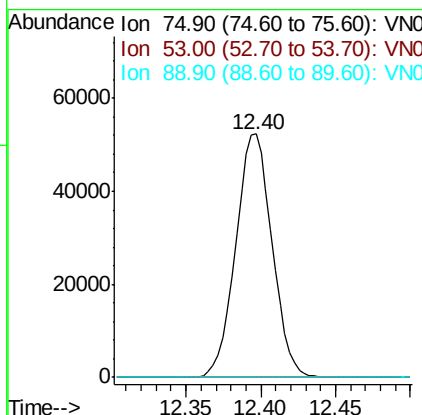
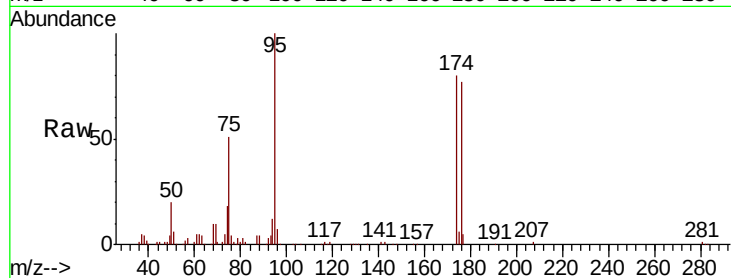




#81
trans-1,4-Dichloro-2-butene
Concen: 69.608 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Instrument :
MSVOA_N
ClientSampleId :
P-2A

Tot Ion: 75 Resp: 88365
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# 3602
Delta R.T. -0.00 min
Lab File: VN060521.D
Acq: 16 Mar 2020 14:29

Tgt Ion: 146 Resp: 262
Ion Ratio Lower Upper
146 100
111 836.6 19.8 59.4#
148 308.4 32.3 96.9#

