

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060527.D
 Acq On : 16 Mar 2020 16:45
 Operator : JC/MD
 Sample : L1942-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-DB

Quant Time: Mar 17 08:45:25 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	212584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	350473	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	329934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146522	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	134695	49.38	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.57	113	102261	62.86	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	432810	52.57	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	161909	51.88	ug/l	0.00
Spiked Amount						

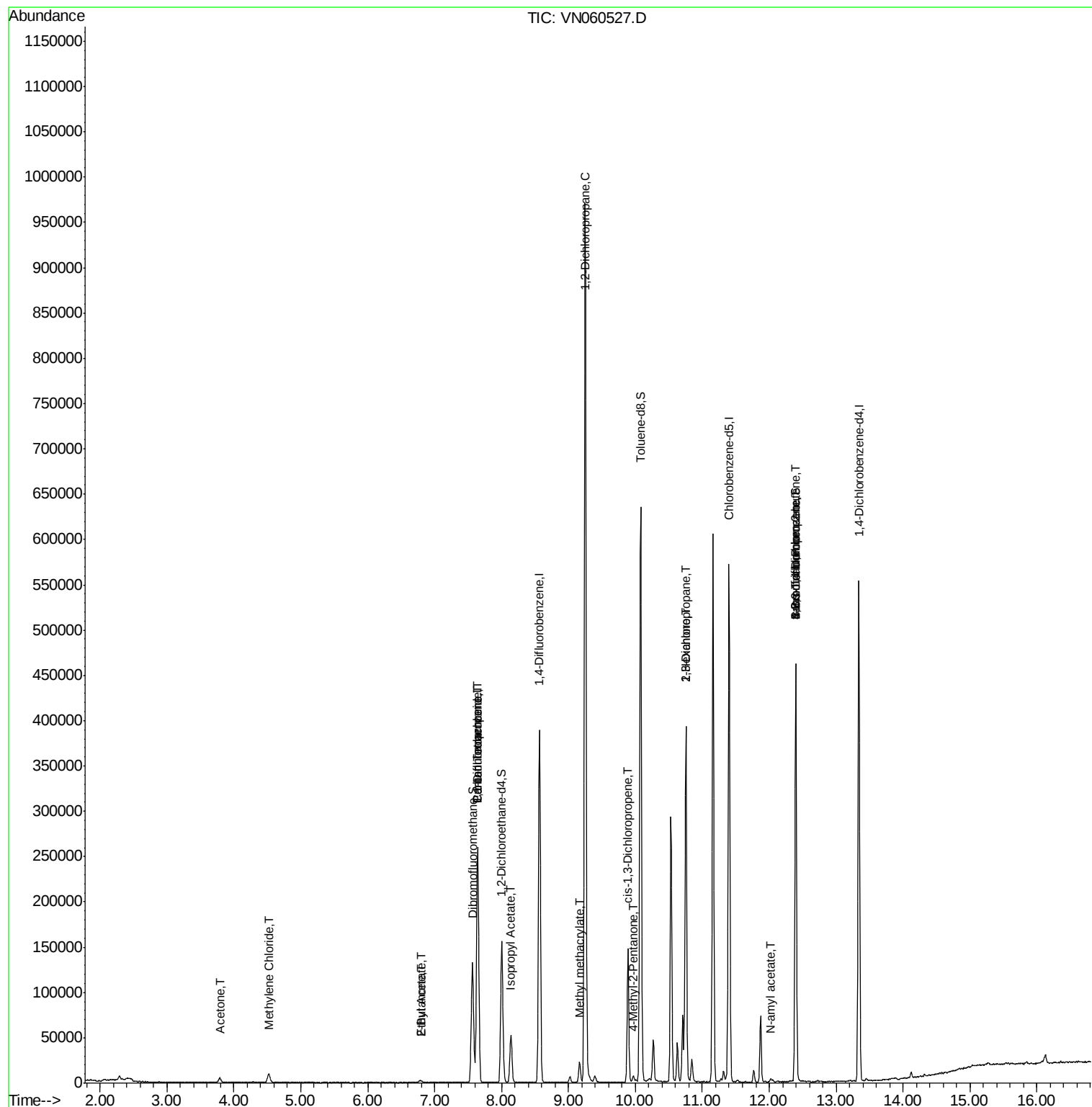
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	9722	11.038	ug/l	98
20) Methylene Chloride	4.52	84	7377	3.050	ug/l	95
25) 2-Butanone	6.81	43	1825	1.283	ug/l #	49
31) Cyclohexane	7.64	56	4331	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16625	4.977	ug/l #	49
37) Ethyl Acetate	6.81	43	1825	0.577	ug/l #	68
38) Carbon Tetrachloride	7.64	117	20473	6.295	ug/l #	16
43) Isopropyl Acetate	8.14	43	63174	11.410	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1084	0.426	ug/l #	44
48) Methyl methacrylate	9.16	41	3342	1.324	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5090	1.621	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	26442	6.208	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3947	0.986	ug/l #	42
59) 2-Hexanone	10.75	43	58610	25.428	ug/l #	52
71) Bromoform	12.39	173	553	0.311	ug/l #	1
74) N-amyl acetate	12.02	43	4034	0.850	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	81309	25.293	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	81309	69.820	ug/l #	8
95) Naphthalene	15.13	128	168	Below Cal	#	69

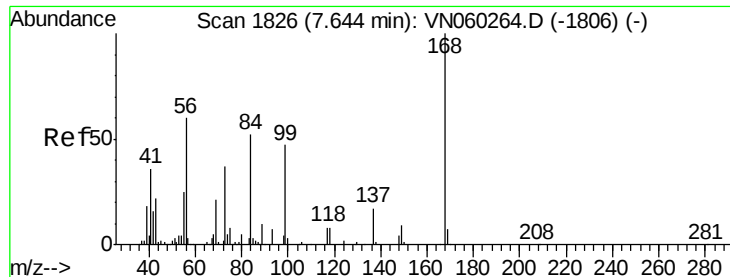
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampled :

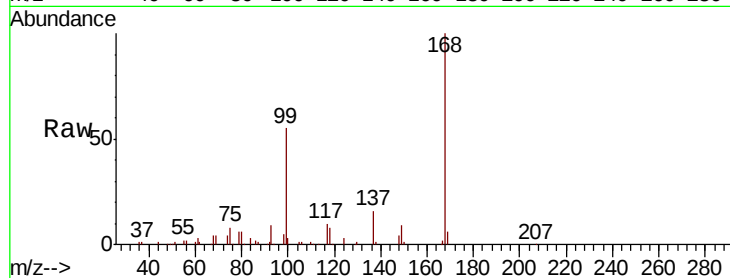
TP-3-DB

Tot Ion:168 Resp: 212584

Ion Ratio Lower Upper

168 100

99 55.1 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

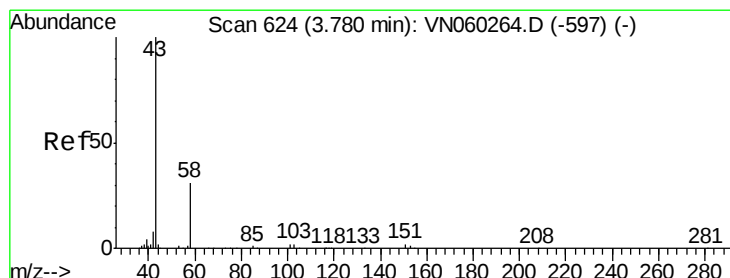
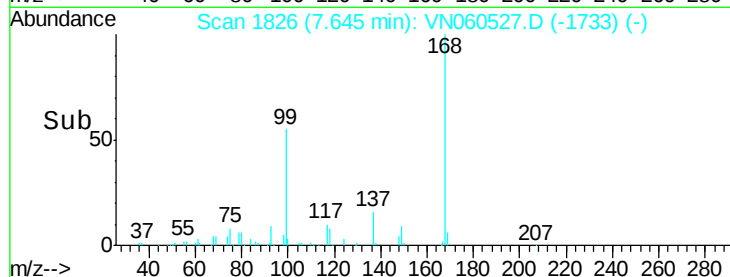
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 11.038 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060527.D

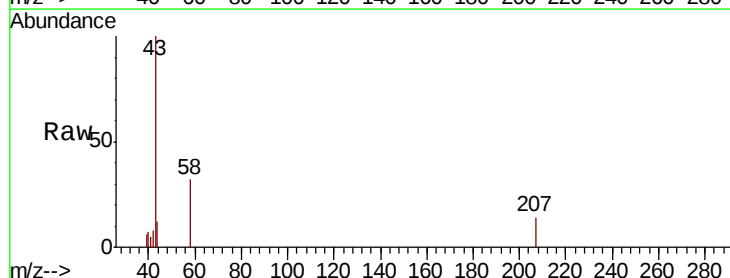
Acq: 16 Mar 2020 16:45

Tgt Ion: 43 Resp: 9722

Ion Ratio Lower Upper

43 100

58 31.7 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

4000

3000

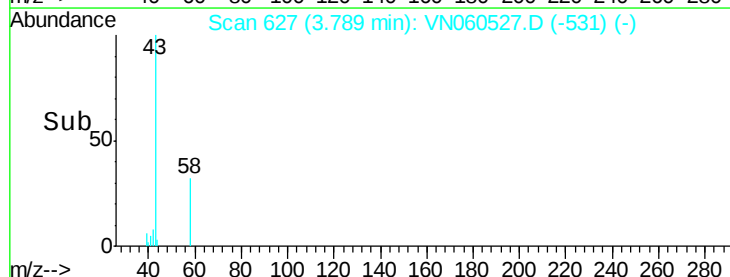
2000

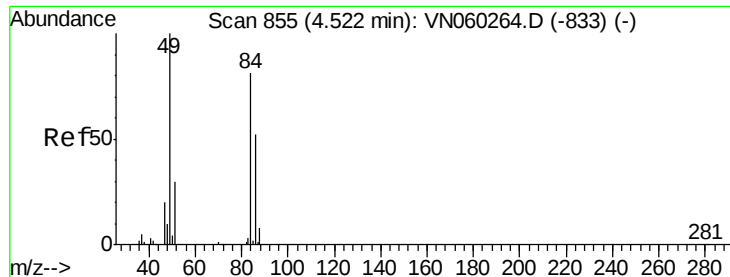
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

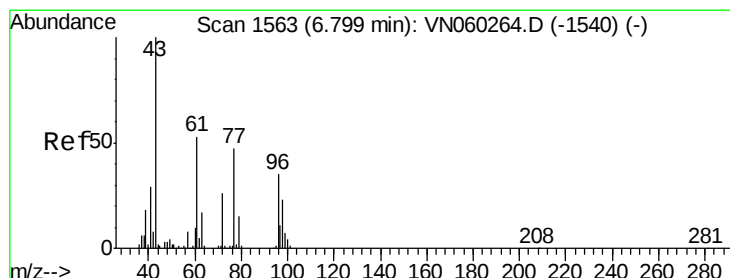
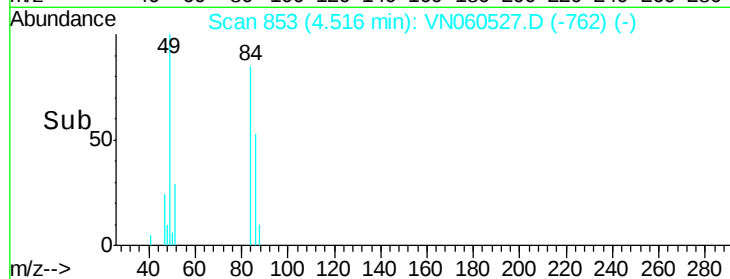
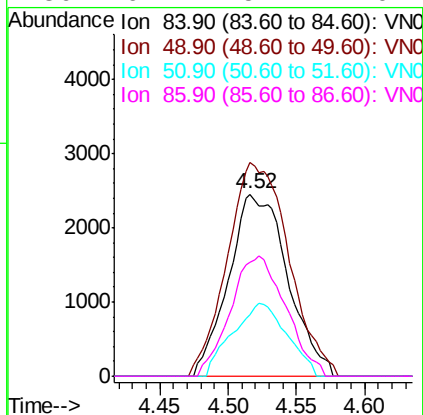
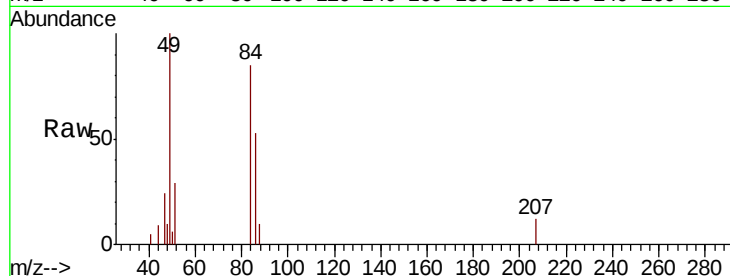




#20
Methylene Chloride
Concen: 3.050 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060527.D
Acq: 16 Mar 2020 16:45

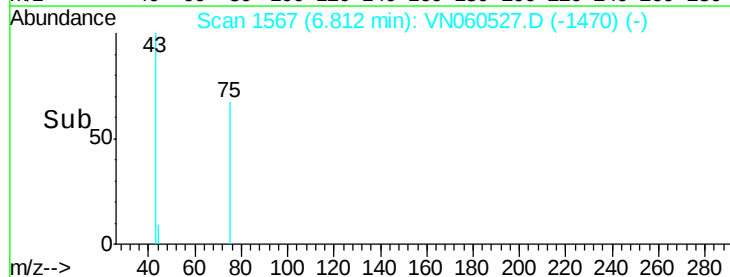
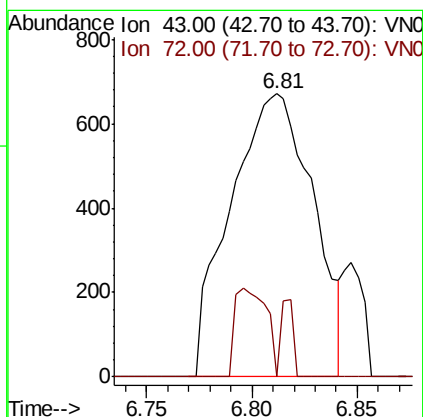
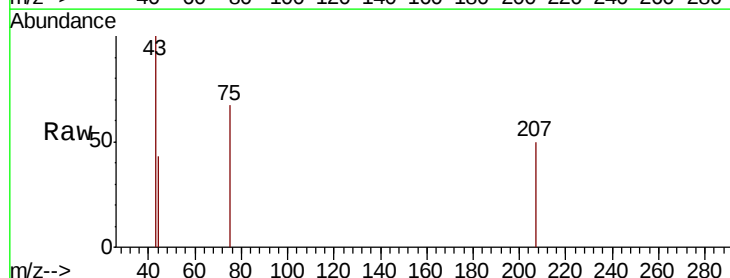
Instrument :
MSVOA_N
ClientSampled :
TP-3-DB

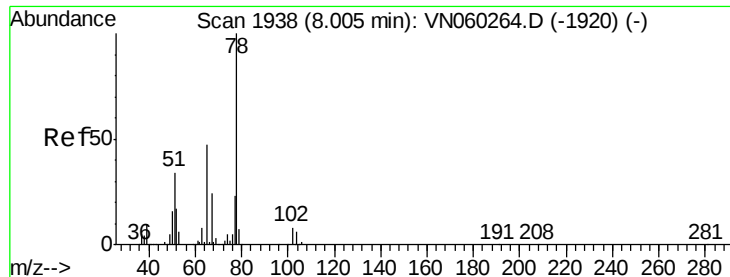
Tot Ion: 84 Resp: 7377
Ion Ratio Lower Upper
84 100
49 117.5 99.3 148.9
51 34.1 30.1 45.1
86 62.4 51.1 76.7



#25
2-Butanone
Concen: 1.283 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060527.D
Acq: 16 Mar 2020 16:45

Tgt Ion: 43 Resp: 1825
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#

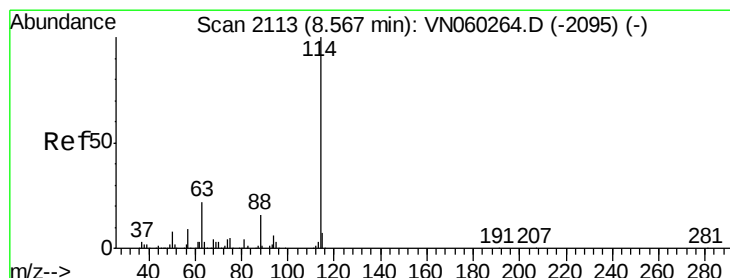
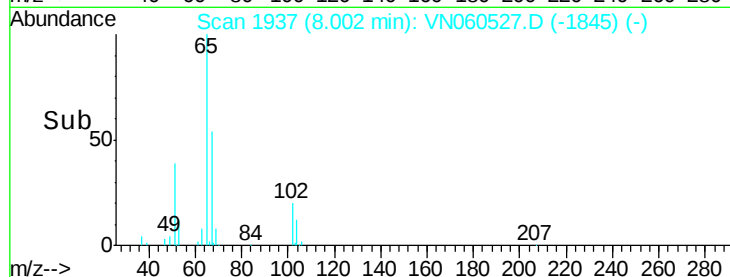
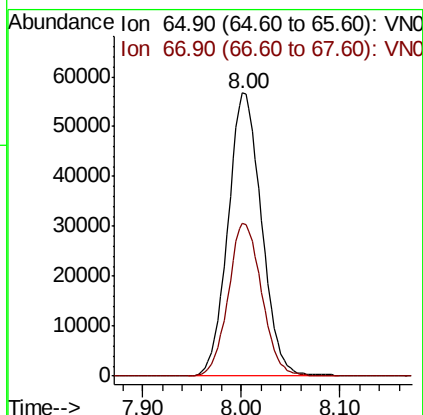
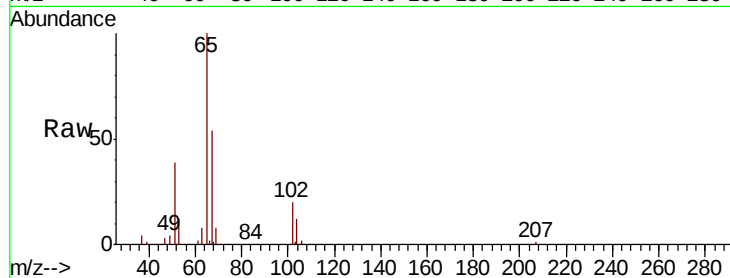




#33
 1,2-Dichloroethane-d4
 Concen: 49.384 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060527.D
 Acq: 16 Mar 2020 16:45

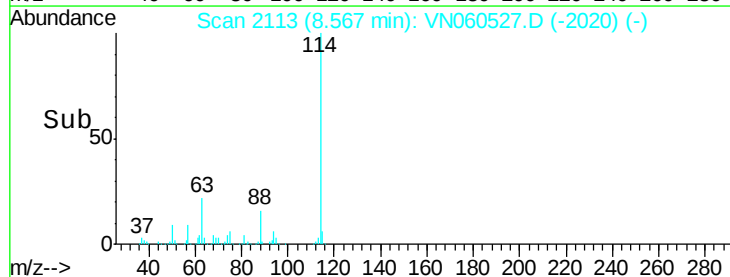
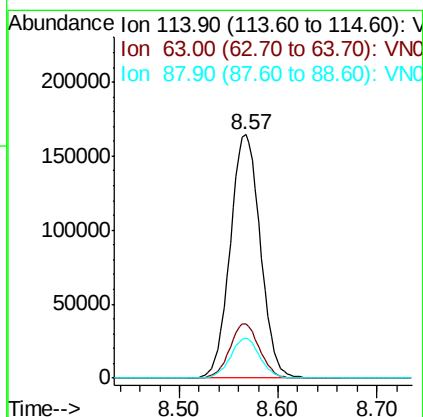
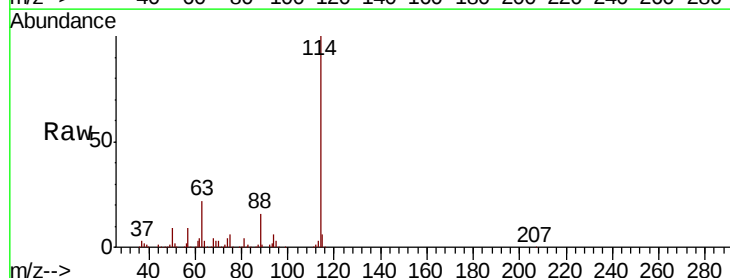
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-DB

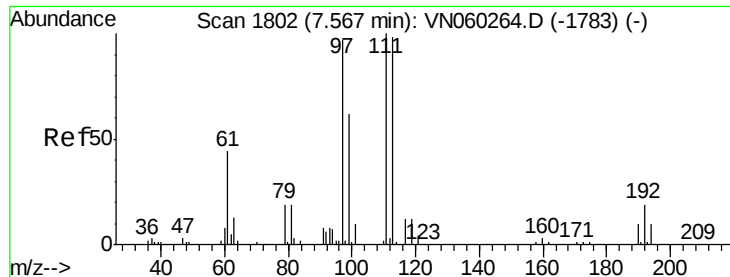
Tot Ion: 65 Resp: 134695
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060527.D
 Acq: 16 Mar 2020 16:45

Tgt Ion: 114 Resp: 350473
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.2
 88 16.4 0.0 31.6

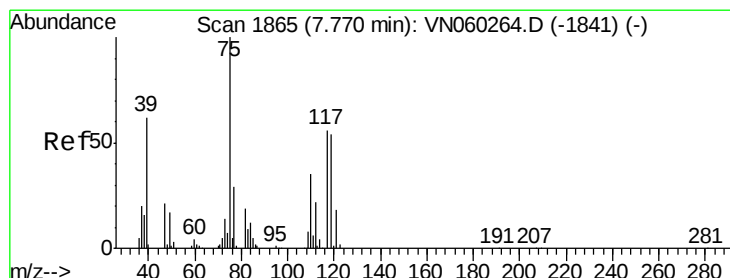
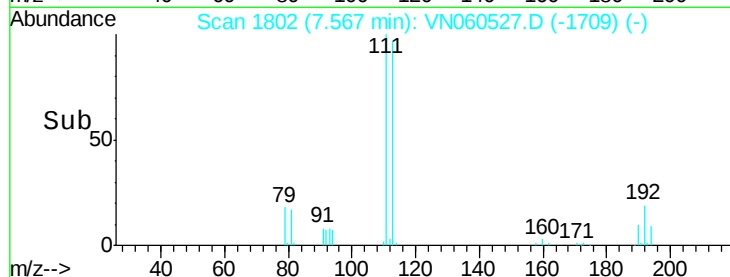
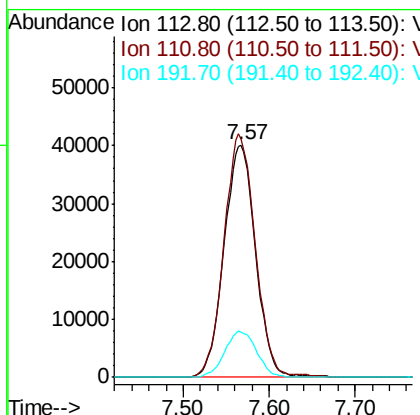
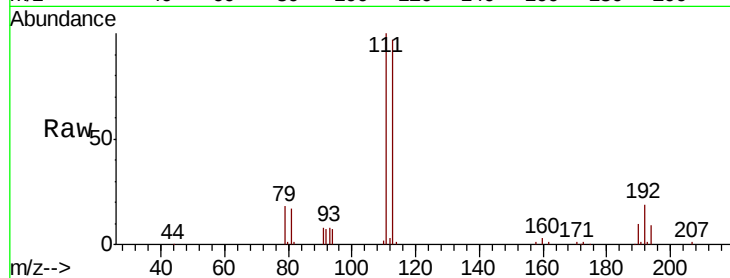




#35
 Dibromofluoromethane
 Concen: 62.861 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060527.D
 Acq: 16 Mar 2020 16:45

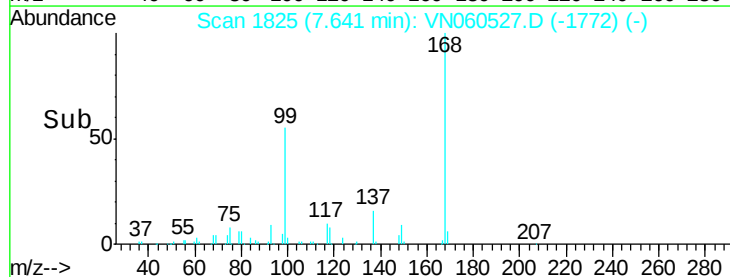
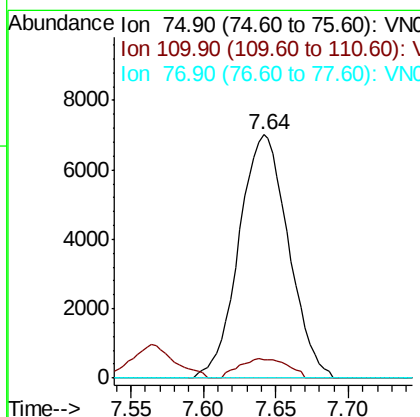
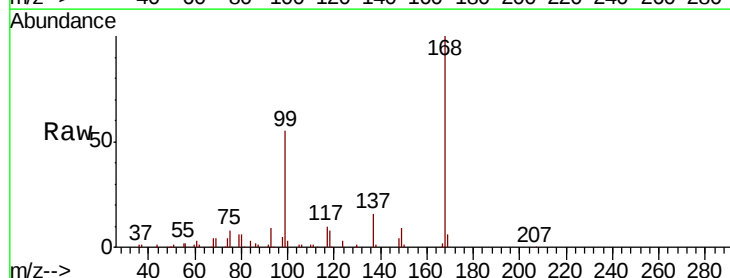
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3-DB

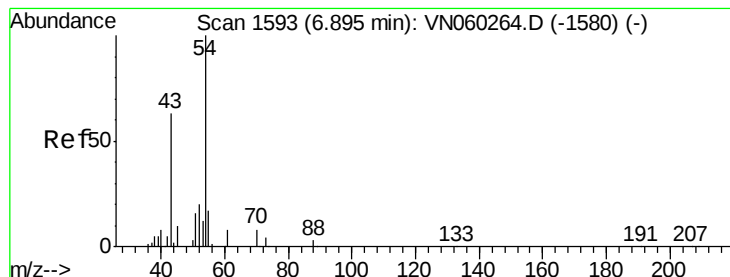
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	20.0	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.977 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060527.D
 Acq: 16 Mar 2020 16:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.3	52.0#
77	0.0	24.2	36.2#





#37

Ethyl Acetate

Concen: 0.577 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.08 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

TP-3-DB

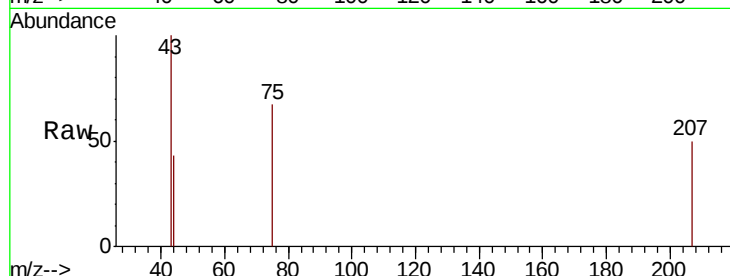
Tot Ion: 43 Resp: 1825

Ion Ratio Lower Upper

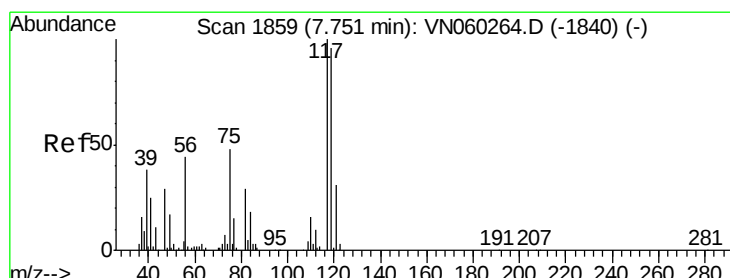
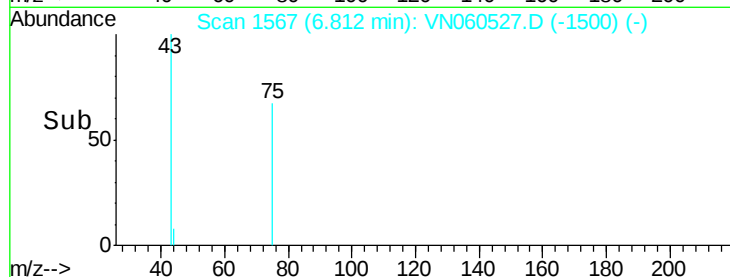
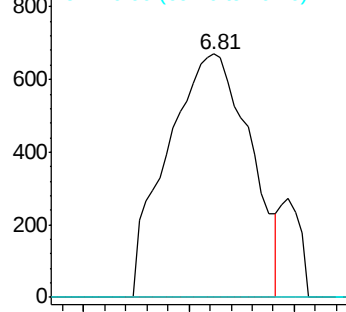
43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060527.D (-1500) (-)



#38

Carbon Tetrachloride

Concen: 6.295 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

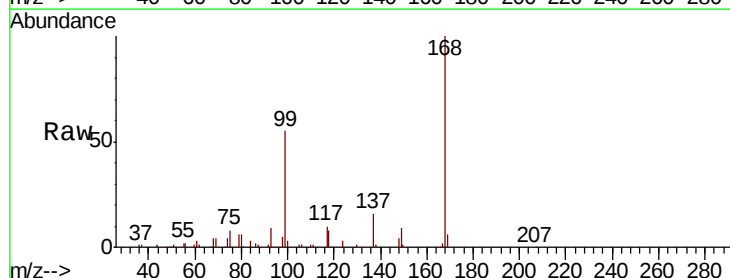
Tgt Ion: 117 Resp: 20473

Ion Ratio Lower Upper

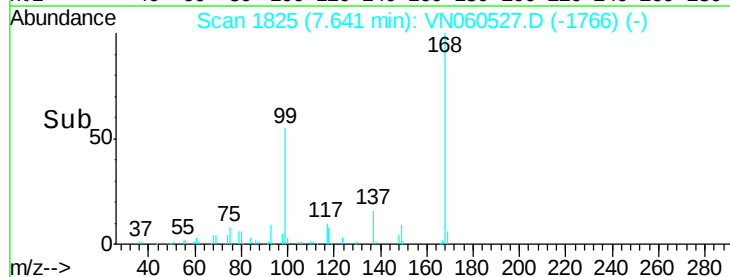
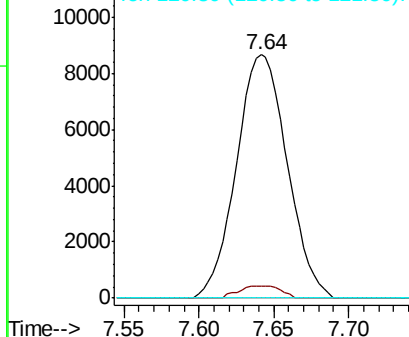
117 100

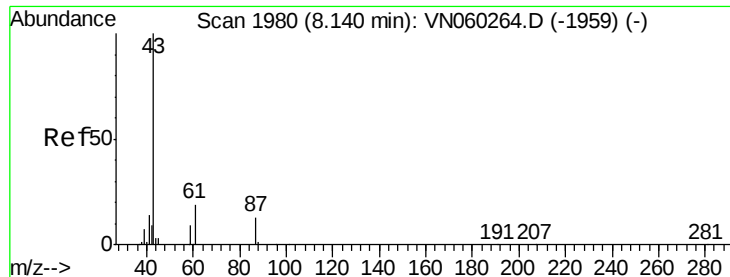
119 4.7 76.7 115.1#

121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): VN060527.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 11.410 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

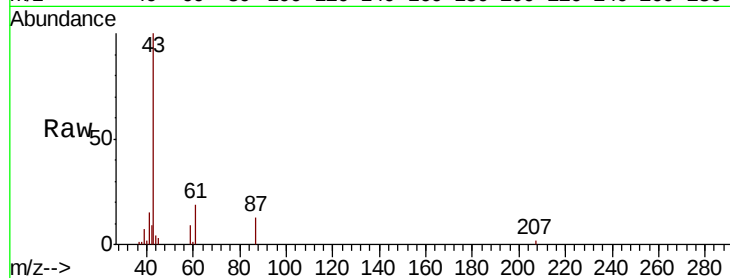
MSVOA_N

ClientSampleId :

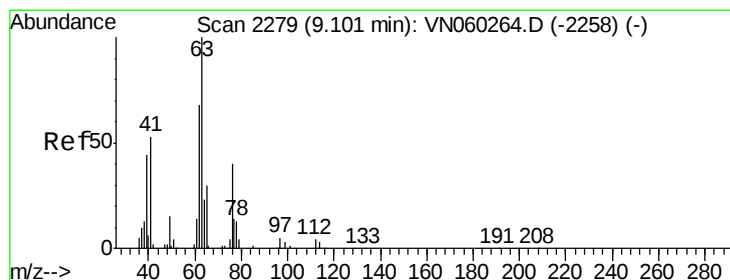
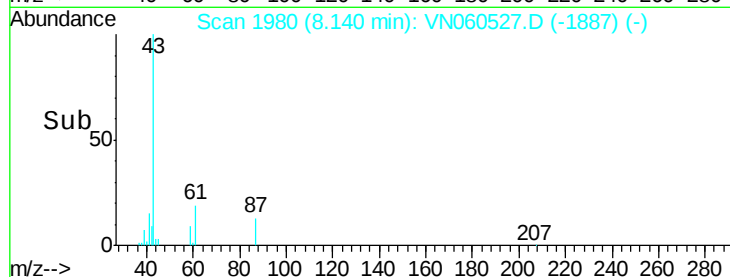
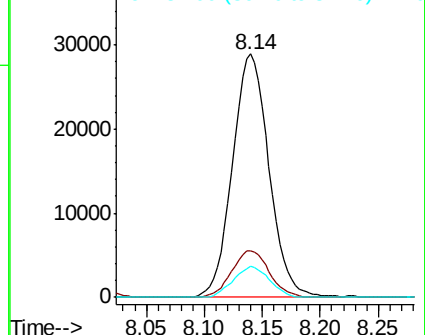
TP-3-DB

Tot Ion: 43 Resp: 63174

Ion	Ratio	Lower	Upper
43	100		
61	19.5	20.9	31.3#
87	12.4	10.6	16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060527.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.426 ug/l

RT: 9.25 min Scan# 2326

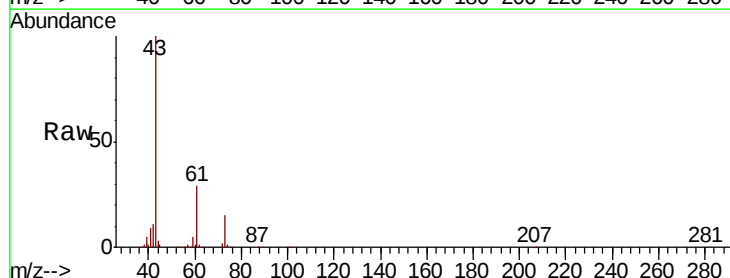
Delta R.T. 0.15 min

Lab File: VN060527.D

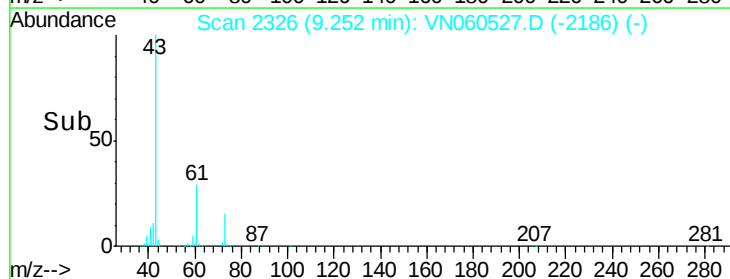
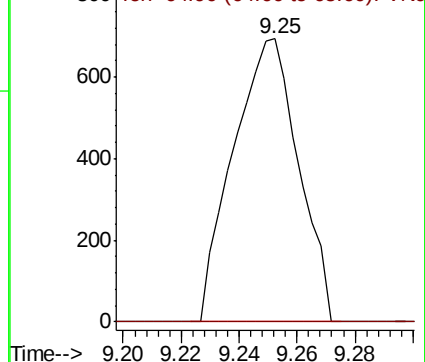
Acq: 16 Mar 2020 16:45

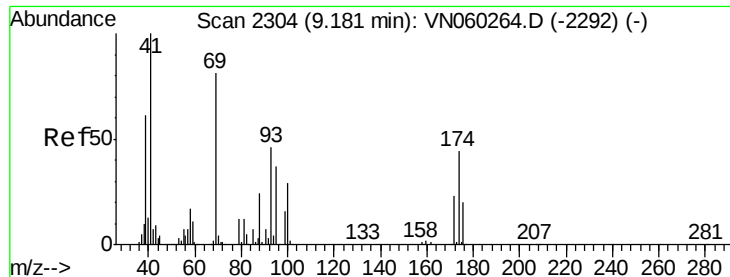
Tgt Ion: 63 Resp: 1084

Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.4	36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060527.D (-2186) (-)

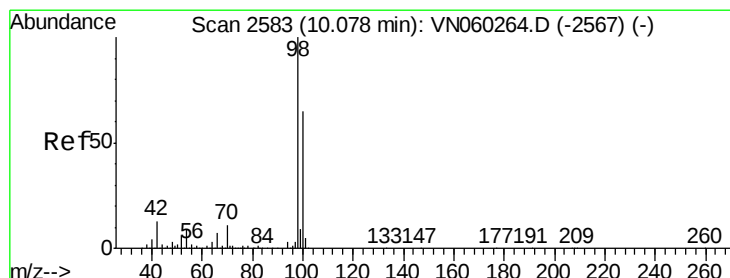
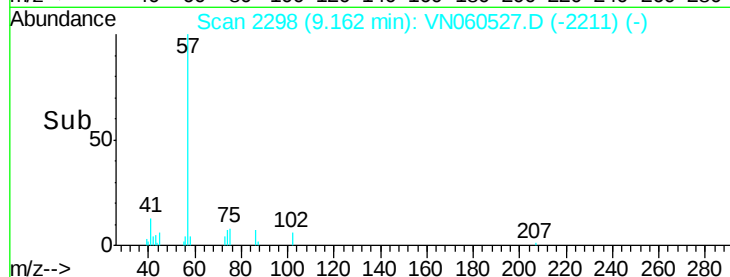
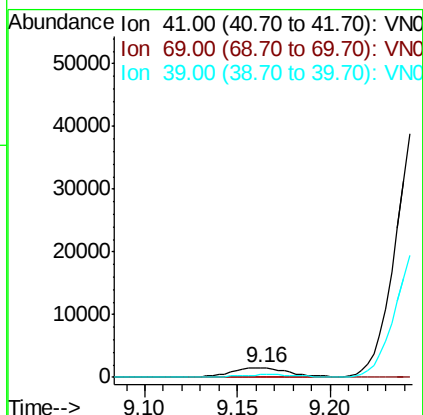
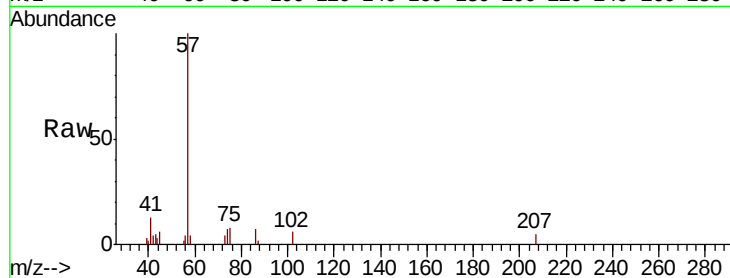




#48
Methvl methacrylate
Concen: 1.324 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060527.D
Acq: 16 Mar 2020 16:45

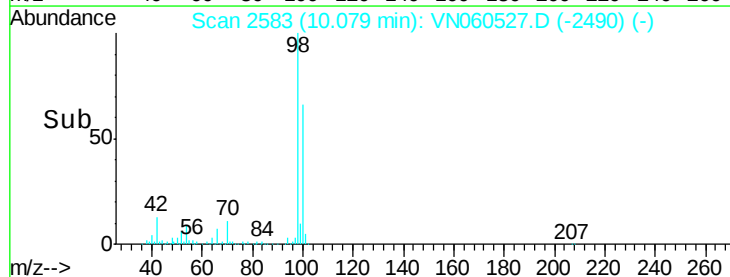
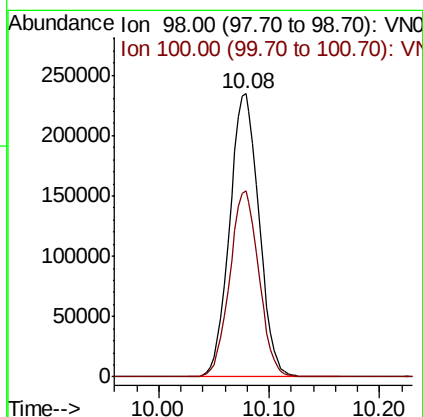
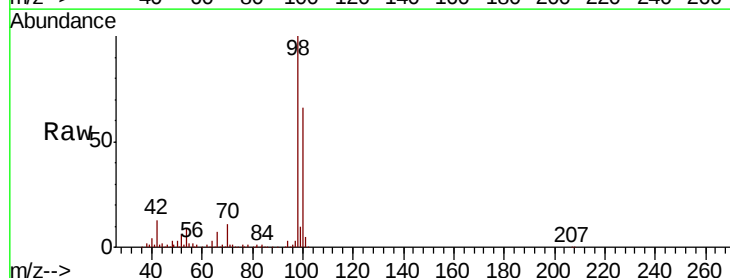
Instrument :
MSVOA_N
ClientSampled :
TP-3-DB

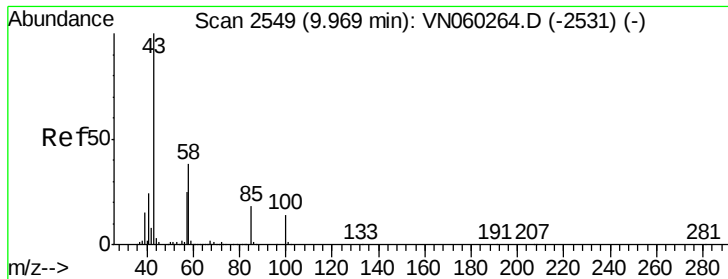
Tot Ion: 41 Resp: 3342
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.568 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060527.D
Acq: 16 Mar 2020 16:45

Tgt Ion: 98 Resp: 432810
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.621 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

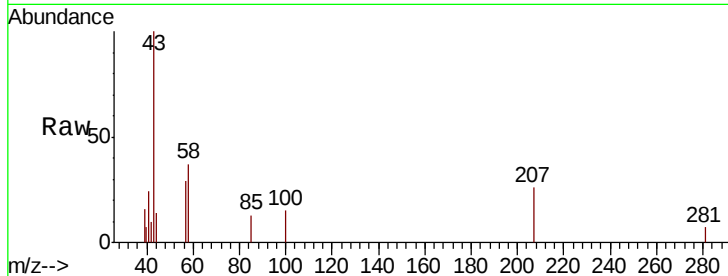
TP-3-DB

Tot Ion: 43 Resp: 5090

Ion Ratio Lower Upper

43 100

58 35.4 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060527.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060527.D (-2456) (-)

8000

6000

4000

2000

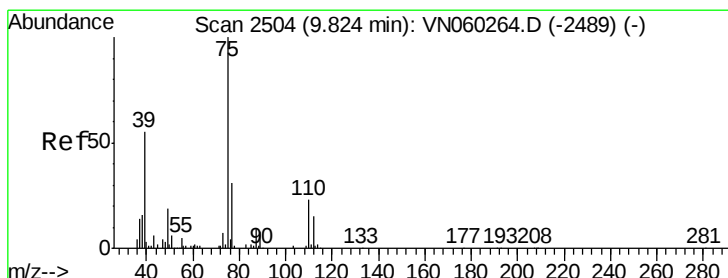
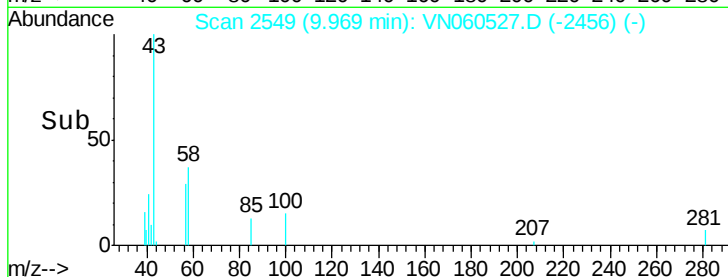
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.208 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

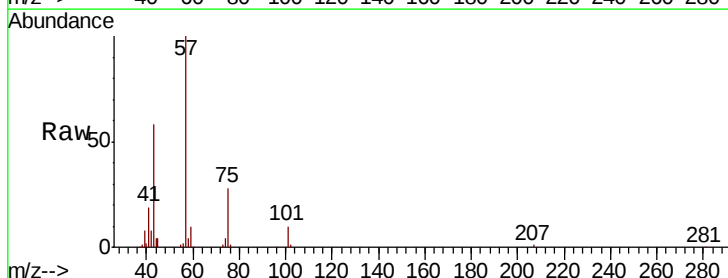
Tgt Ion: 75 Resp: 26442

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): VN060527.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060527.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060527.D (-2411) (-)

20000

15000

10000

5000

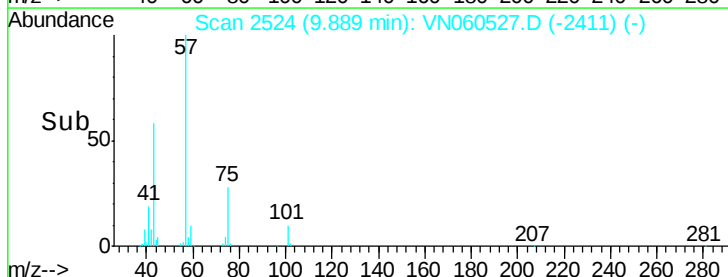
0

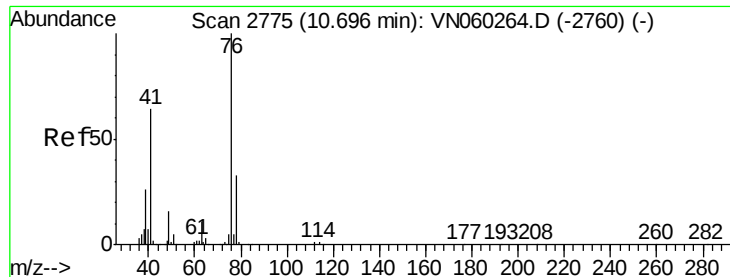
9.85

9.89

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 0.986 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampled :

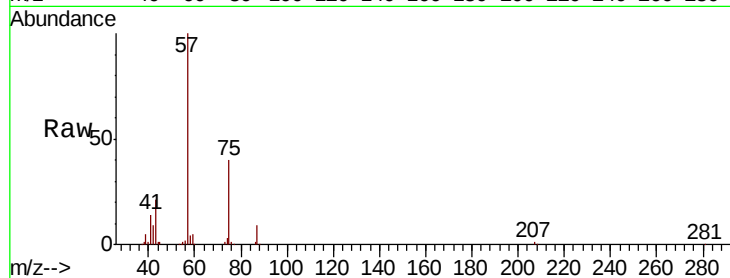
TP-3-DB

Tot Ion: 76 Resp: 3947

Ion Ratio Lower Upper

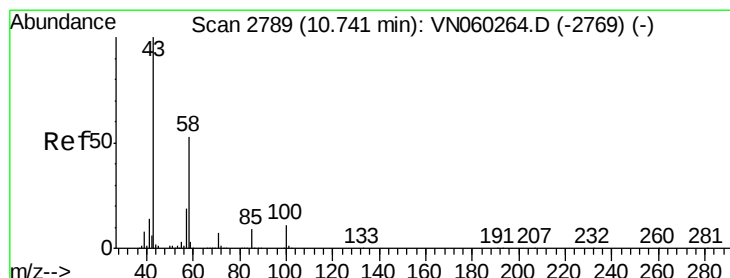
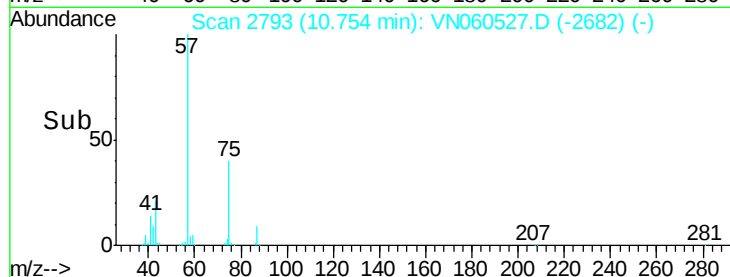
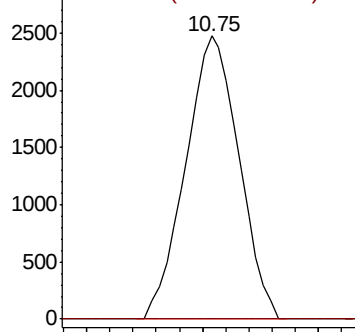
76 100

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: 25.428 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060527.D

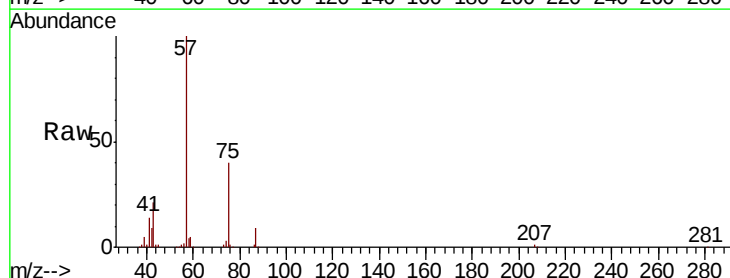
Acq: 16 Mar 2020 16:45

Tgt Ion: 43 Resp: 58610

Ion Ratio Lower Upper

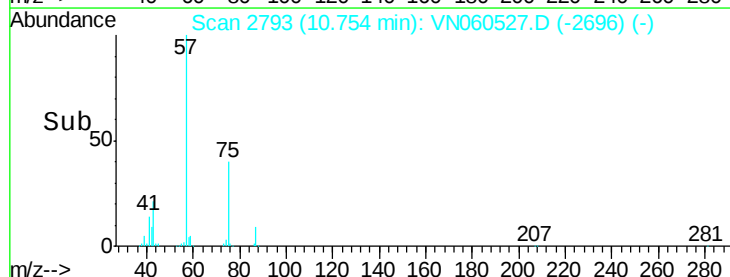
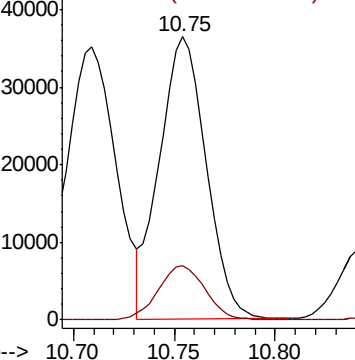
43 100

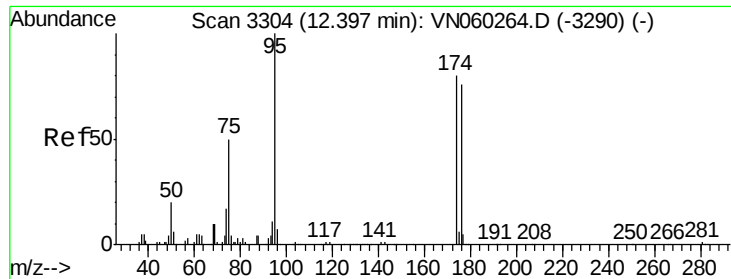
58 19.2 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.876 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

TP-3-DB

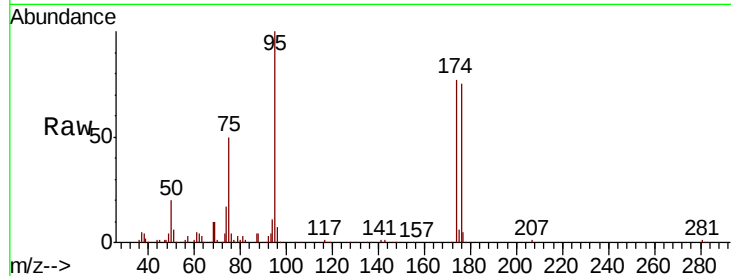
Tot Ion: 95 Resp: 161909

Ion Ratio Lower Upper

95 100

174 77.3 0.0 159.2

176 75.1 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

120000

100000

80000

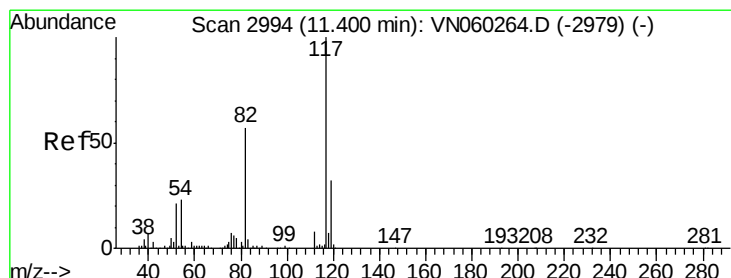
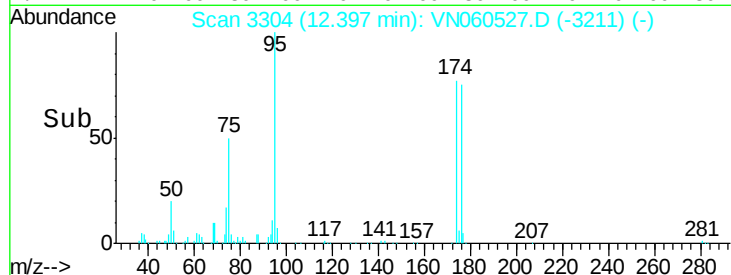
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

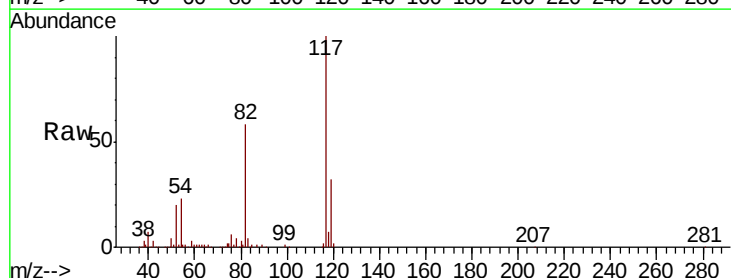
Tgt Ion: 117 Resp: 329934

Ion Ratio Lower Upper

117 100

82 57.6 45.8 68.6

119 31.7 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

250000

200000

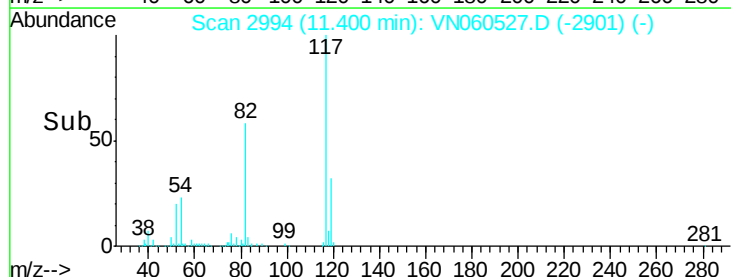
150000

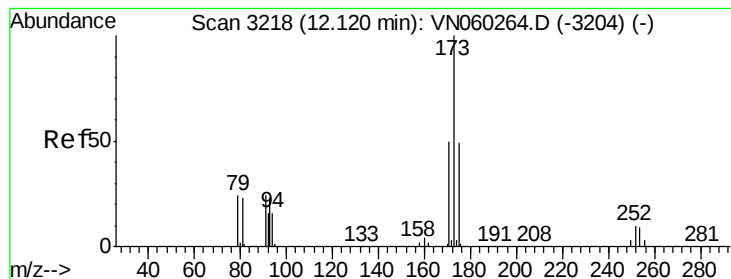
100000

50000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.311 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

TP-3-DB

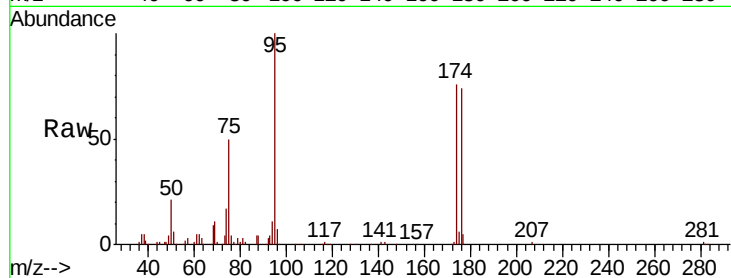
Tot Ion:173 Resp: 553

Ion Ratio Lower Upper

173 100

175 1440.0 24.1 72.2#

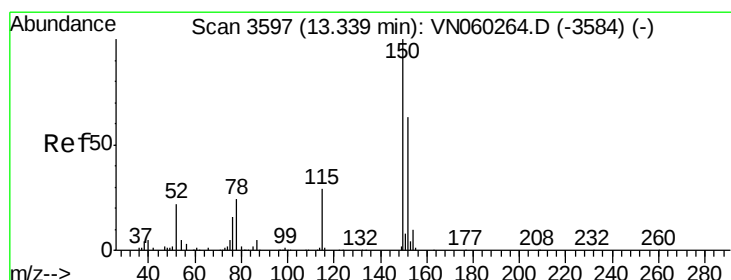
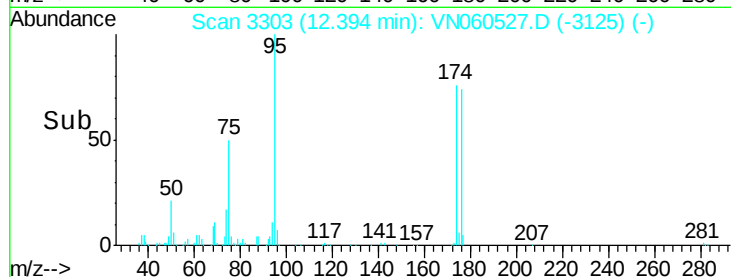
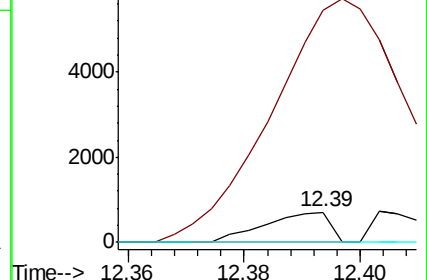
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN060527.D

Acq: 16 Mar 2020 16:45

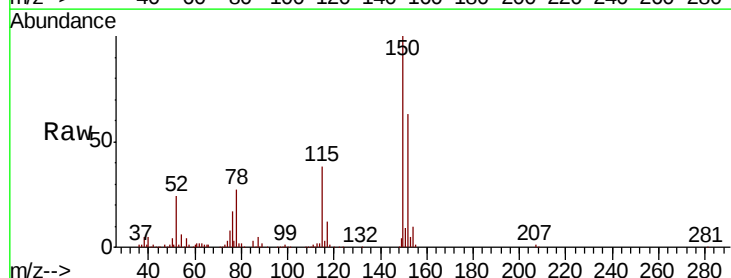
Tgt Ion:152 Resp: 146522

Ion Ratio Lower Upper

152 100

115 60.7 30.0 90.0

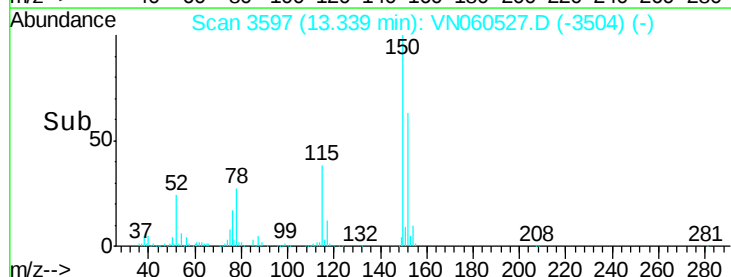
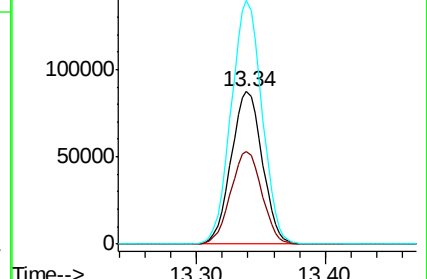
150 158.0 0.0 349.6

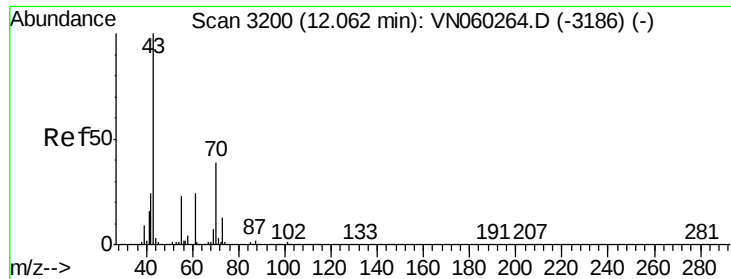


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.850 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

TP-3-DB

Tot Ion: 43 Resp: 4034

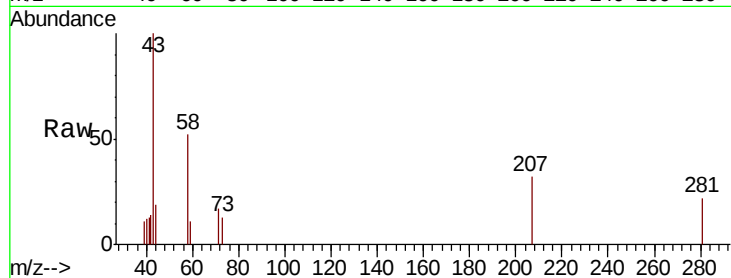
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



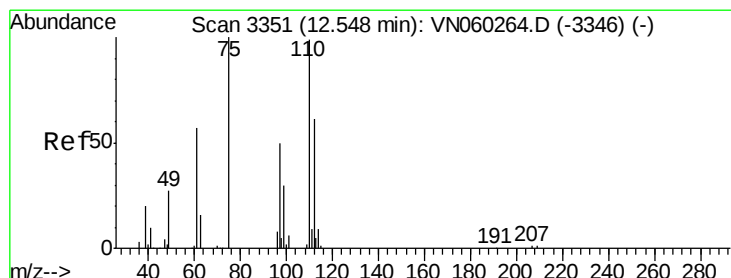
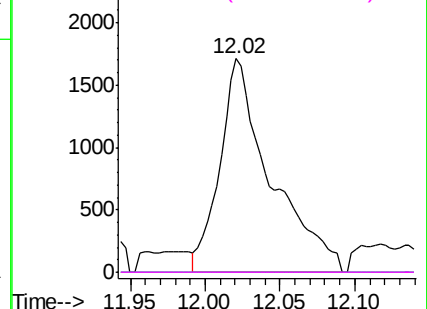
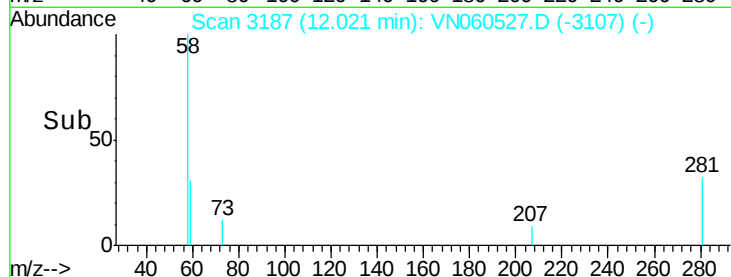
Abundance

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: 25.293 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060527.D

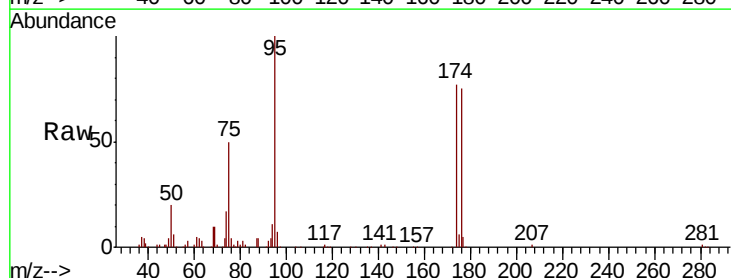
Acq: 16 Mar 2020 16:45

Tgt Ion: 75 Resp: 81309

Ion Ratio Lower Upper

75 100

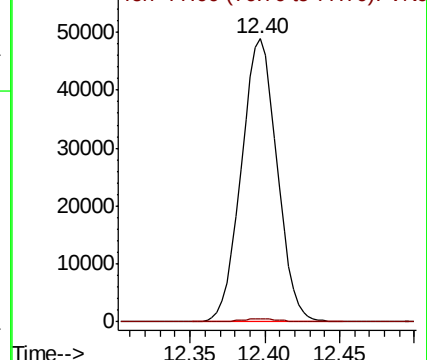
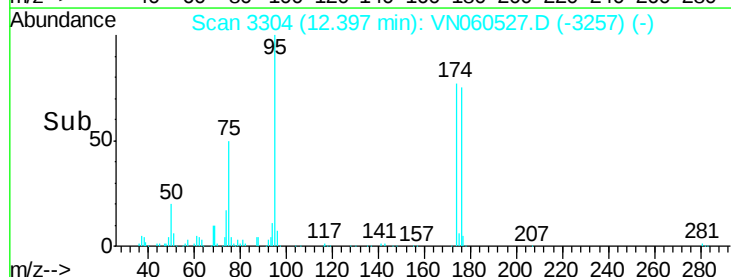
77 1.2 0.0 0.0#

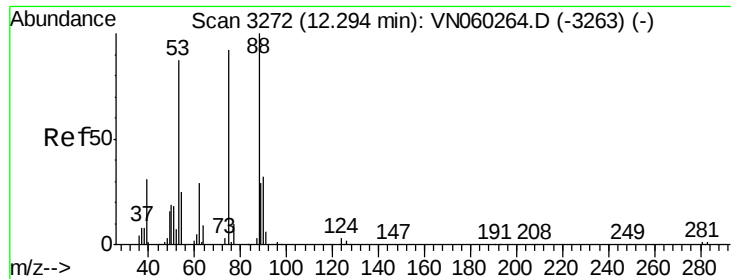


Abundance

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: 69.820 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

TP-3-DB

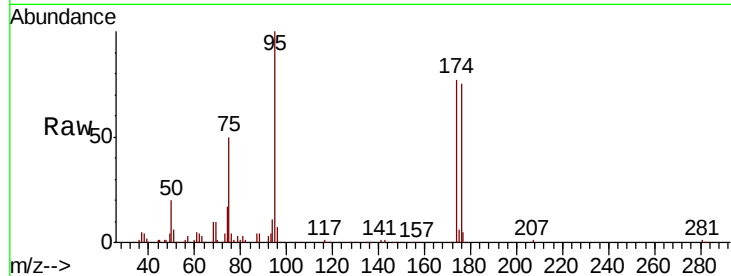
Tot Ion: 75 Resp: 81309

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

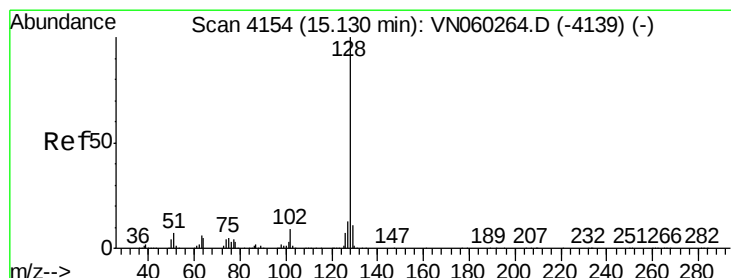
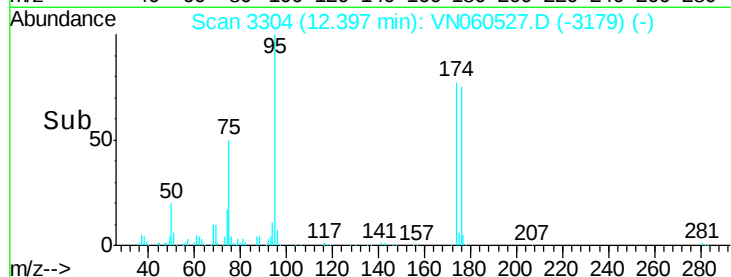
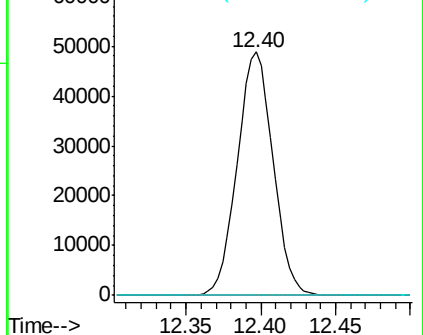
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060527.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060527.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060527.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060527.D

Acq: 16 Mar 2020 16:45

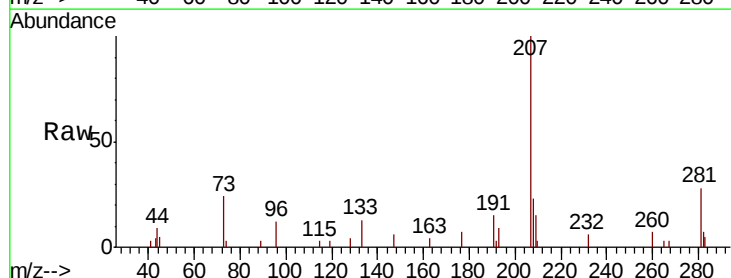
Tgt Ion: 128 Resp: 168

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): VN060527.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060527.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060527.D (-4060) (-)

