

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
 Data File : VN060482.D
 Acq On : 12 Mar 2020 16:19
 Operator : JC/MD
 Sample : PB127465ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#04

Quant Time: Mar 13 02:05:45 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	187438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	309787	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	291718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	133316	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	122017	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	
35) Dibromofluoromethane	7.57	113	92597	64.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.80%	
50) Toluene-d8	10.08	98	385659	52.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.98%	
62) 4-Bromofluorobenzene	12.40	95	143400	51.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.96%	

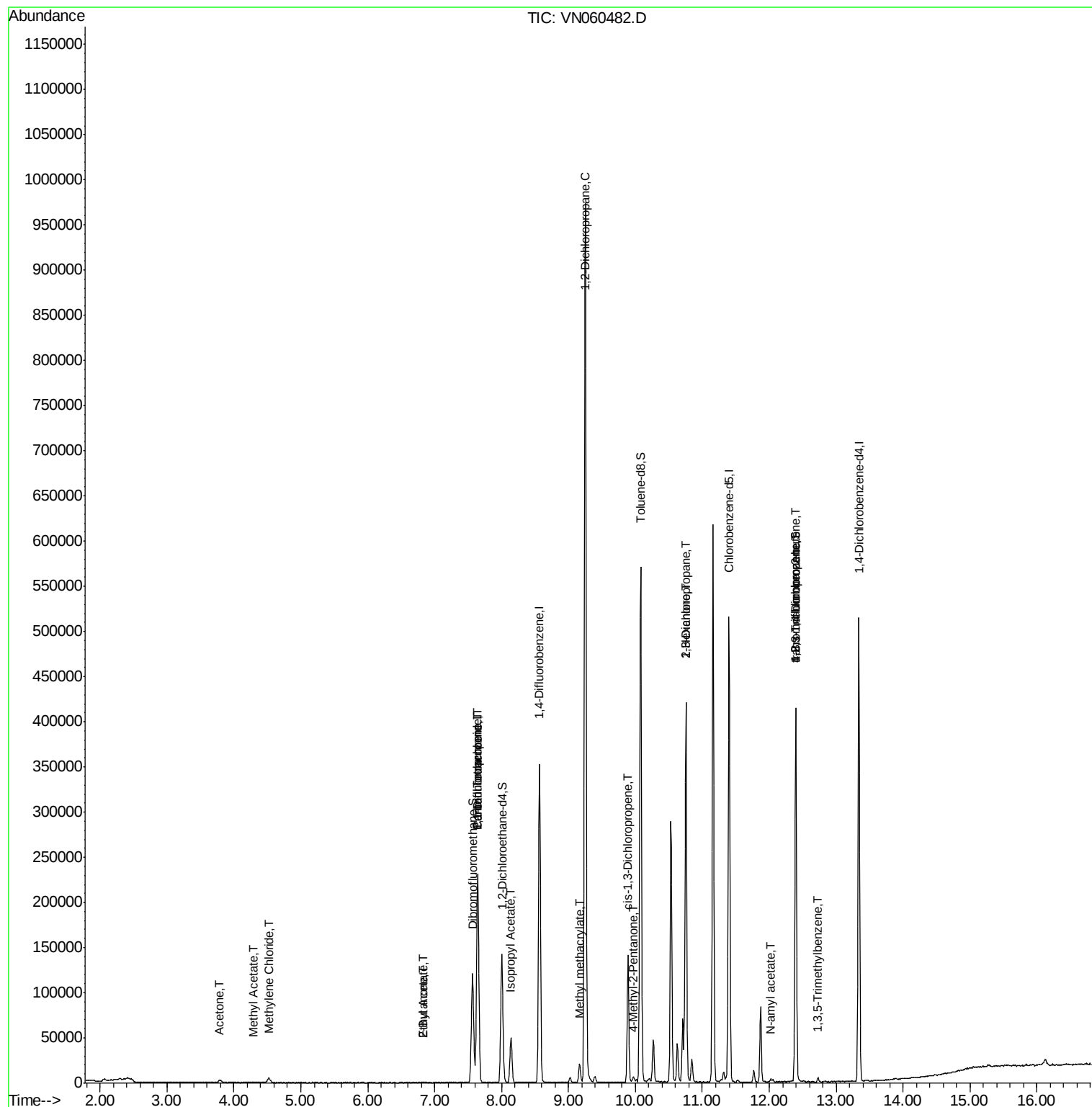
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6760	8.70	ug/l	100
18) Methyl Acetate	4.29	43	1416	0.55	ug/l #	52
20) Methylene Chloride	4.52	84	4103	1.92	ug/l	95
25) 2-Butanone	6.81	43	1316	1.05	ug/l #	49
31) Cyclohexane	7.64	56	3930	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14299	4.84	ug/l #	49
37) Ethyl Acetate	6.81	43	1316	0.47	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18093	6.29	ug/l #	16
43) Isopropyl Acetate	8.14	43	59665	12.19	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1033	0.46	ug/l #	44
48) Methyl methacrylate	9.17	41	3050	1.37	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4854	1.75	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	25094	6.67	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	4019	1.14	ug/l #	42
59) 2-Hexanone	10.75	43	62010	30.44	ug/l #	51
74) N-amyl acetate	12.03	43	2534	0.59	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	71911	24.59	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3076	0.37	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	71911	67.87	ug/l #	8
95) Naphthalene	15.13	128	71	Below Cal	#	69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

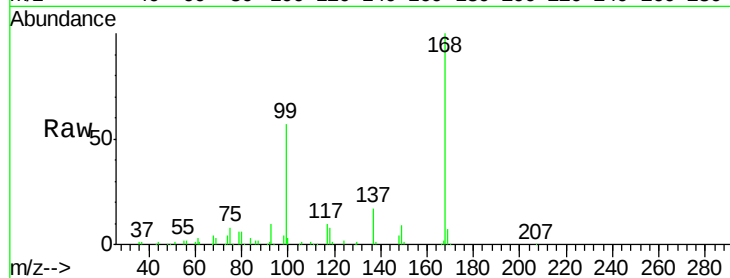
PB127465ZHE#04

Tgt Ion:168 Resp: 187438

Ion Ratio Lower Upper

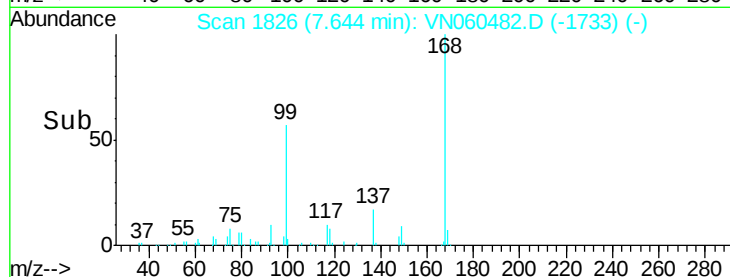
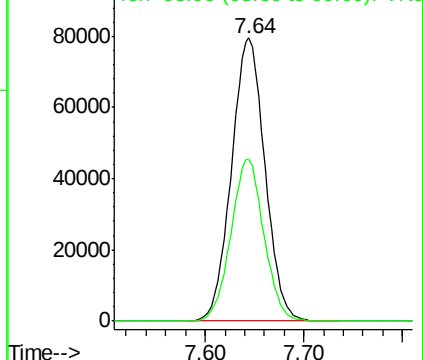
168 100

99 57.3 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 8.70 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060482.D

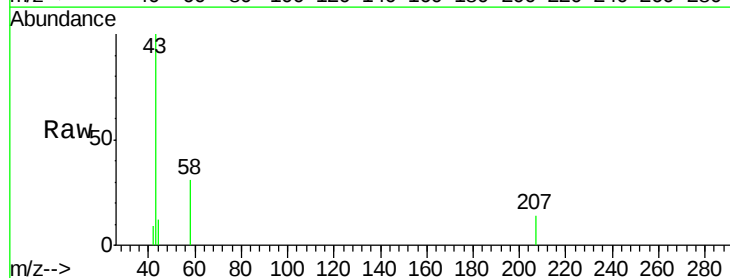
Acq: 12 Mar 2020 16:19

Tgt Ion: 43 Resp: 6760

Ion Ratio Lower Upper

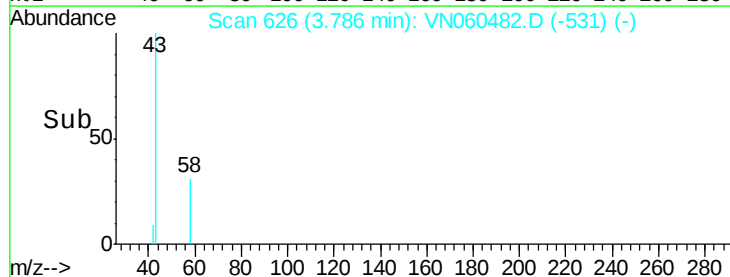
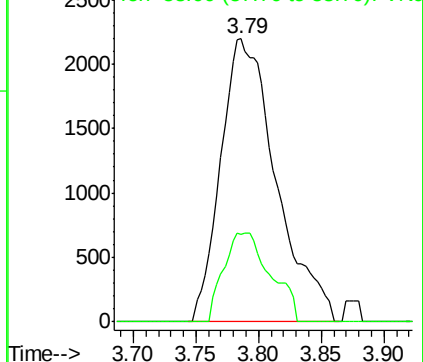
43 100

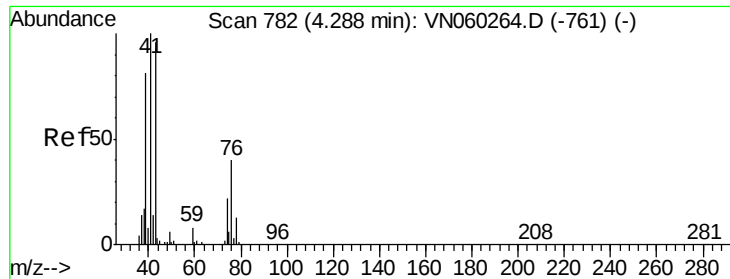
58 30.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

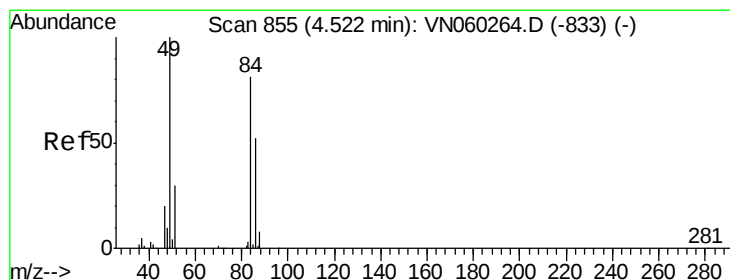
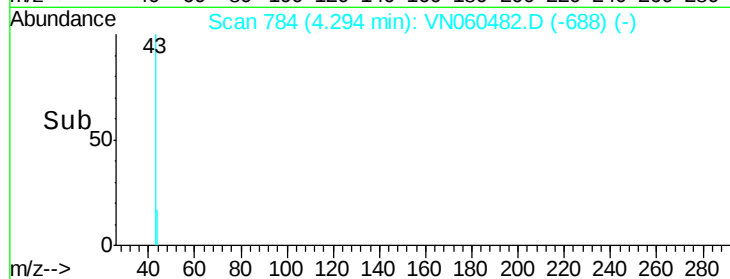
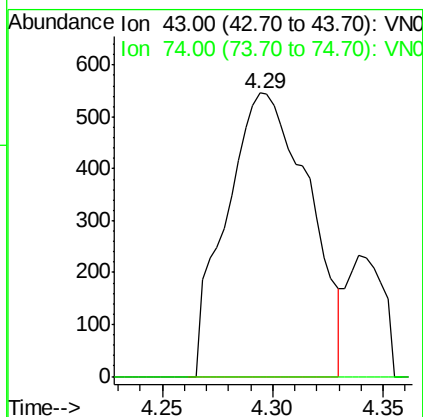
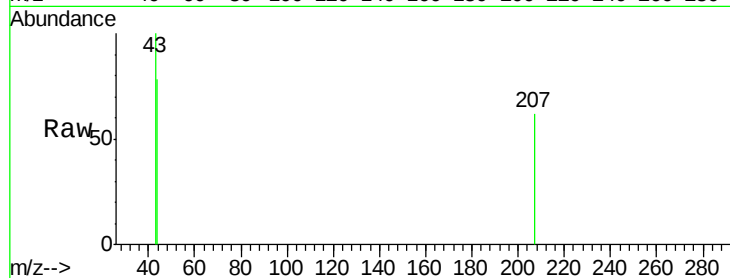




#18
Methyl Acetate
Concen: 0.55 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060482.D
Acq: 12 Mar 2020 16:19

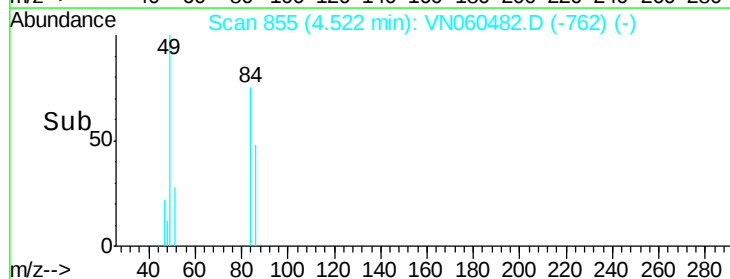
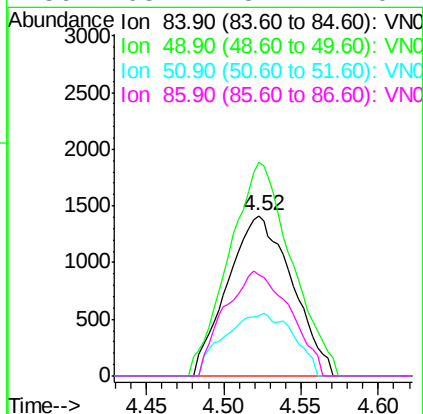
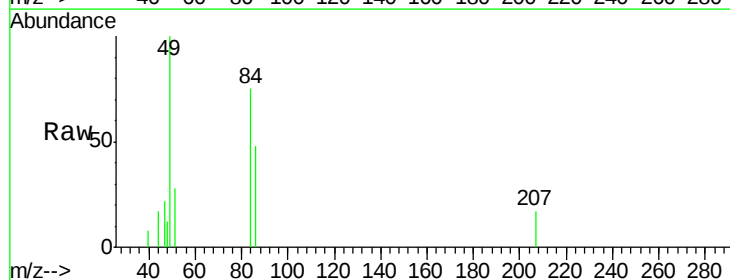
Instrument :
MSVOA_N
ClientSampleId :
PB127465ZHE#04

Tgt Ion: 43 Resp: 1416
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.92 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060482.D
Acq: 12 Mar 2020 16:19

Tgt Ion: 84 Resp: 4103
Ion Ratio Lower Upper
84 100
49 133.1 99.3 148.9
51 37.5 30.1 45.1
86 63.4 51.1 76.7

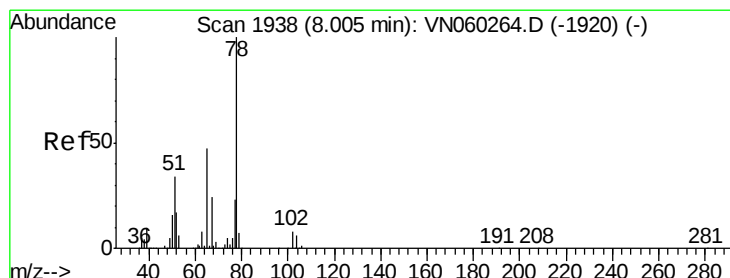
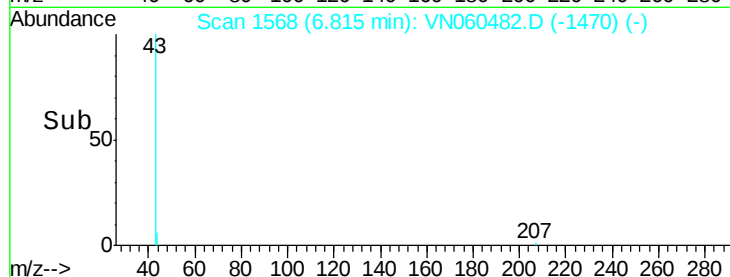
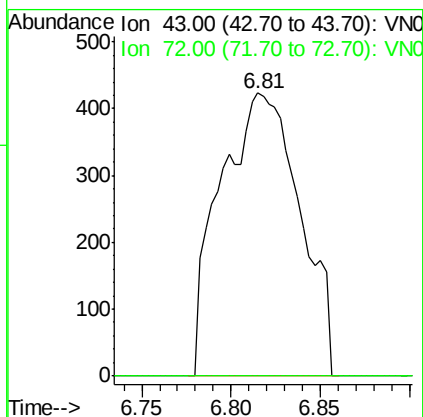
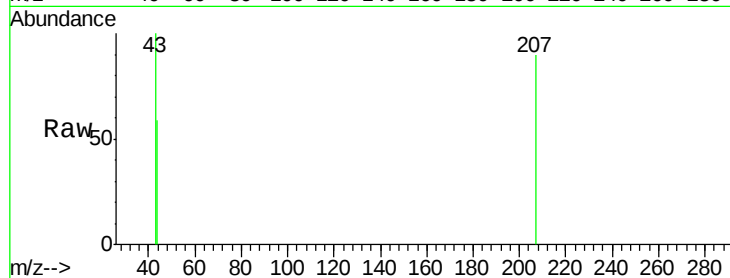




#25
 2-Butanone
 Concen: 1.05 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. 0.02 min
 Lab File: VN060482.D
 Acq: 12 Mar 2020 16:19

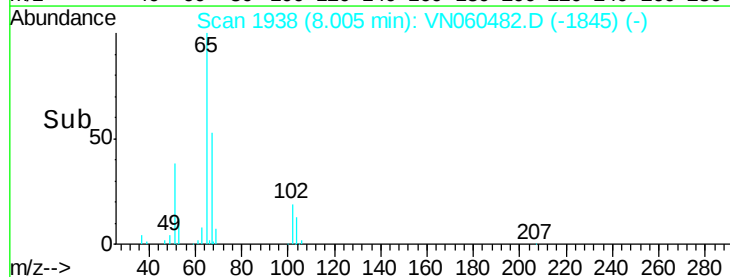
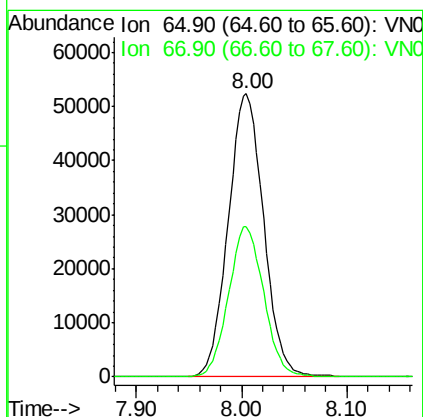
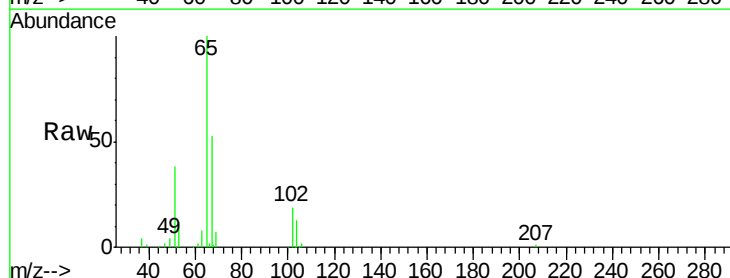
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#04

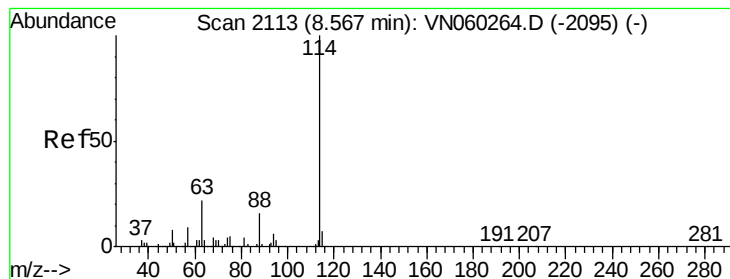
Tgt Ion: 43 Resp: 1316
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 50.74 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060482.D
 Acq: 12 Mar 2020 16:19

Tgt Ion: 65 Resp: 122017
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#04

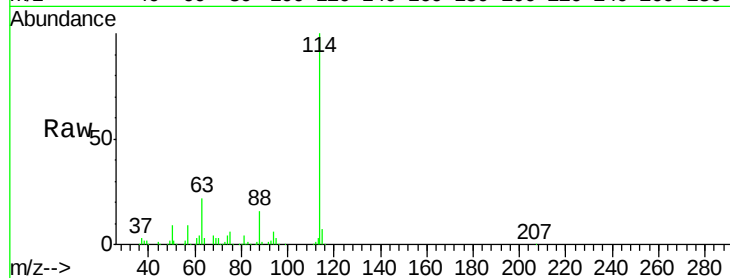
Tgt Ion:114 Resp: 309787

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

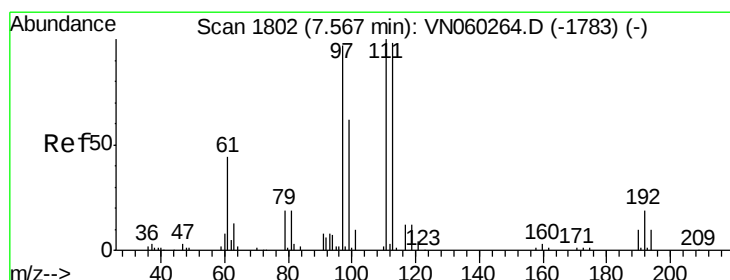
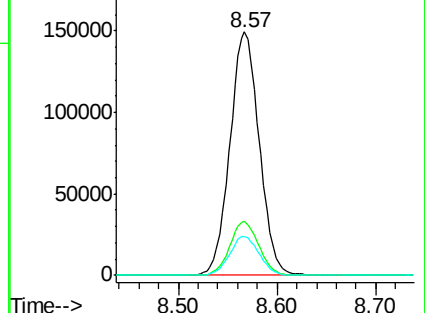
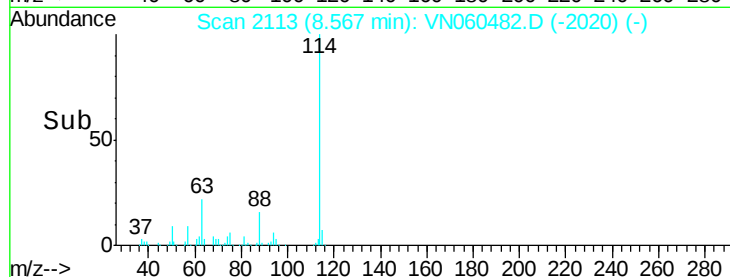
88 16.1 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 64.40 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

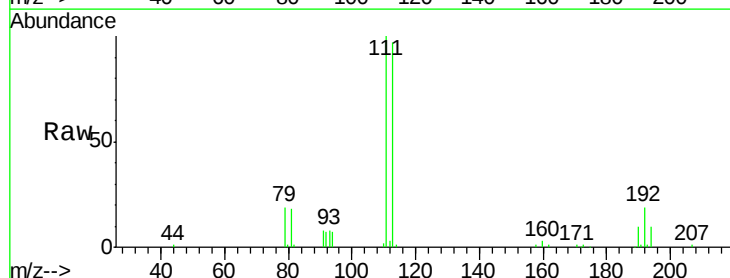
Tgt Ion:113 Resp: 92597

Ion Ratio Lower Upper

113 100

111 101.7 82.4 123.6

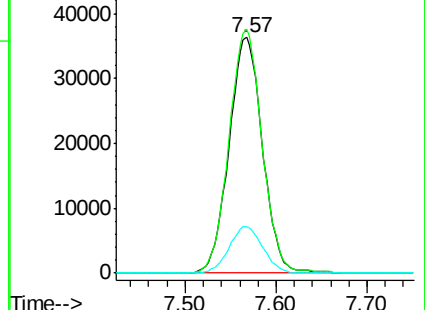
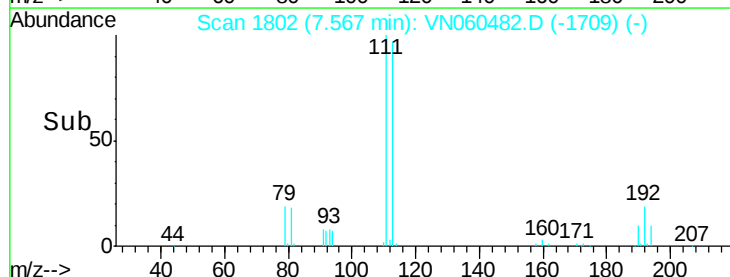
192 19.6 16.2 24.2

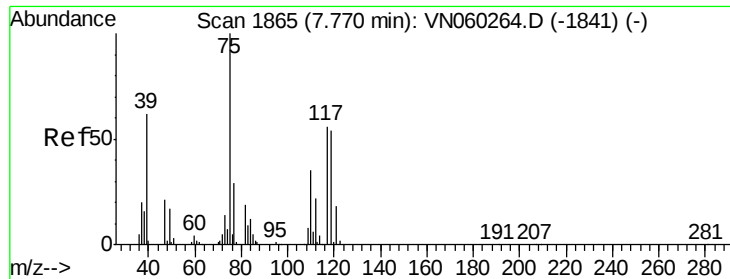


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.84 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#04

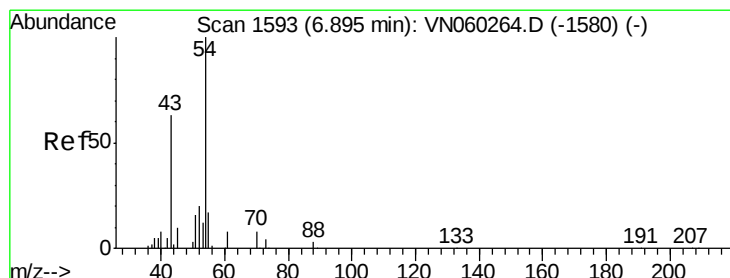
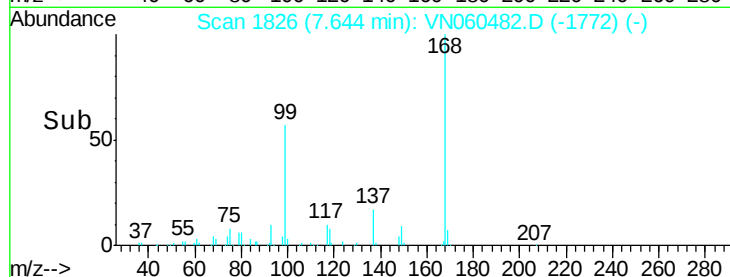
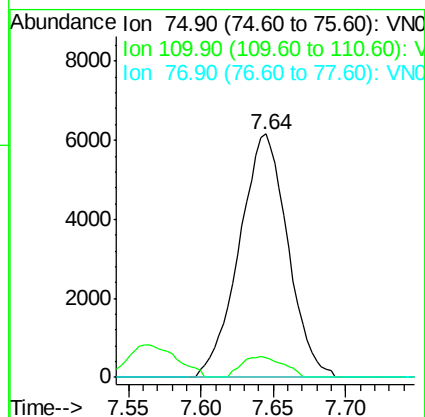
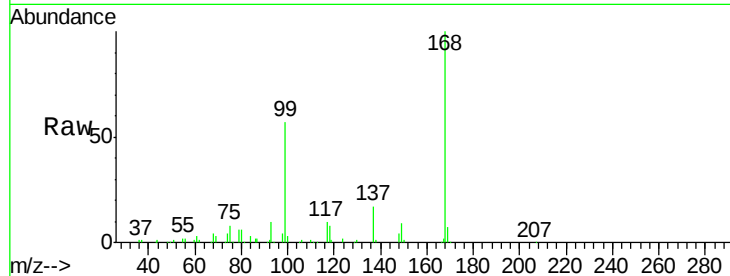
Tgt Ion: 75 Resp: 14299

Ion Ratio Lower Upper

75 100

110 7.4 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.47 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

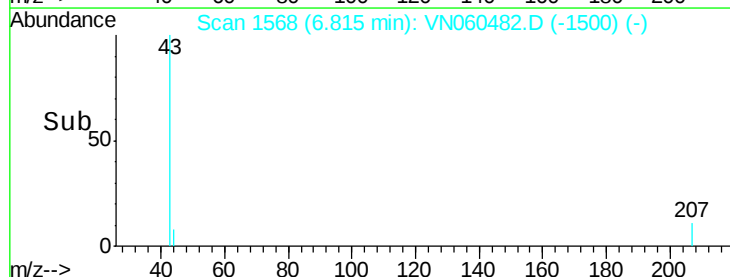
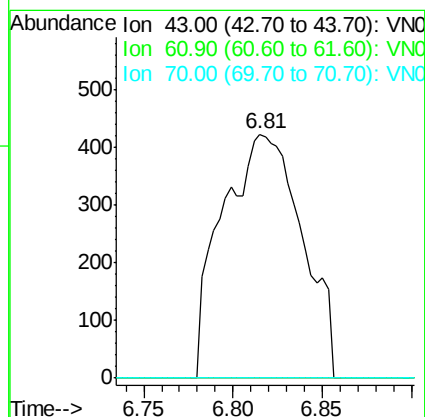
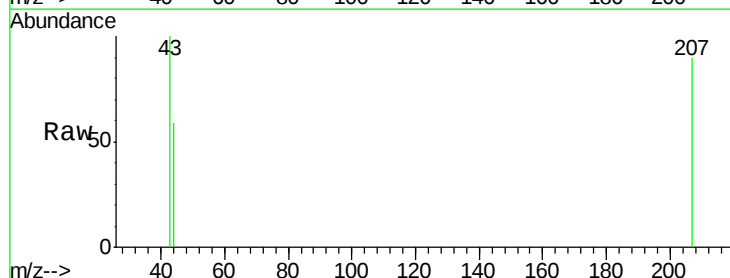
Tgt Ion: 43 Resp: 1316

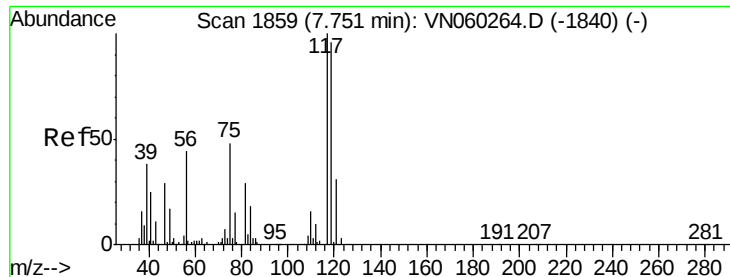
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.29 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

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PB127465ZHE#04

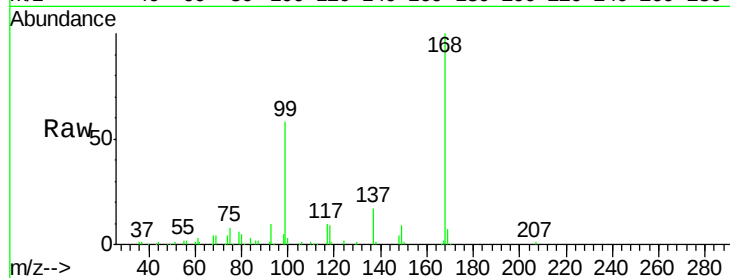
Tgt Ion:117 Resp: 18093

Ion Ratio Lower Upper

117 100

119 5.6 76.7 115.1#

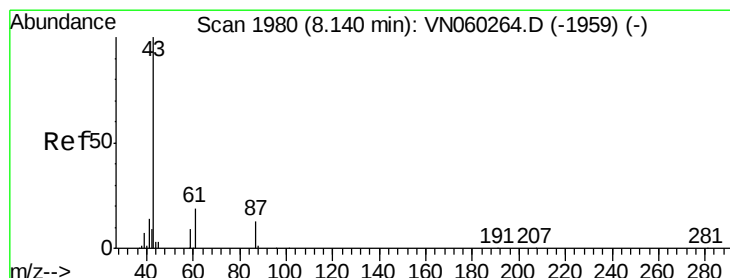
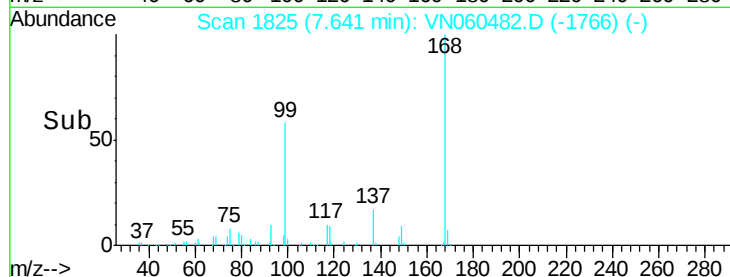
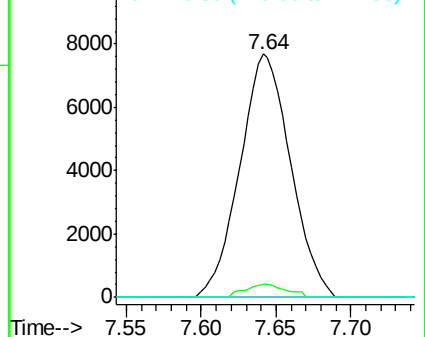
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.19 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

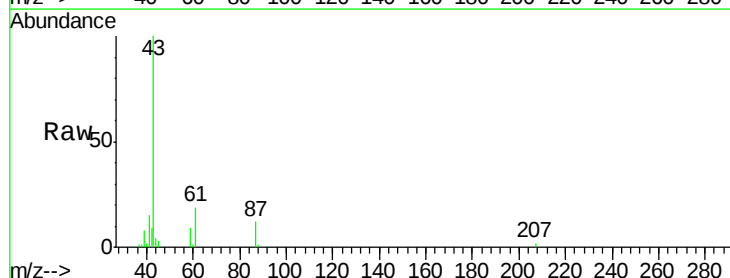
Tgt Ion: 43 Resp: 59665

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

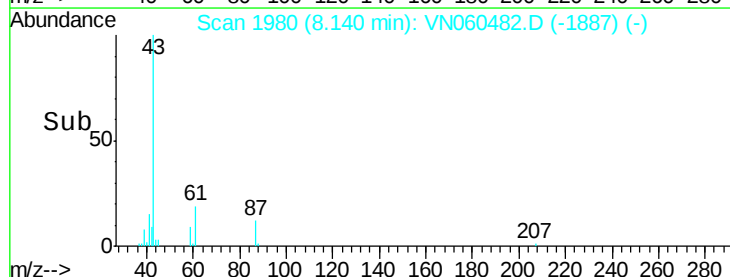
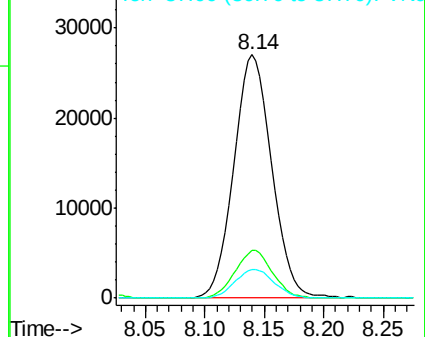
87 12.1 10.6 16.0

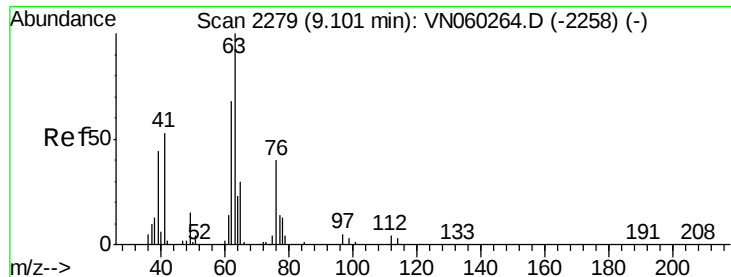


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.46 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

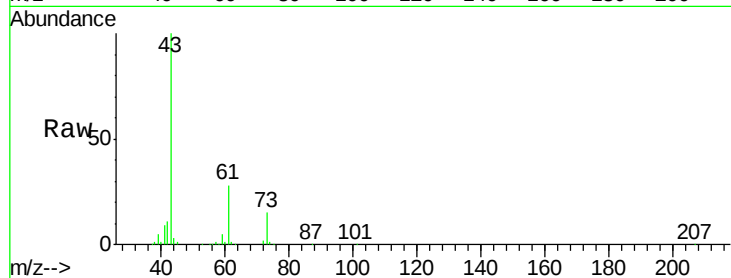
PB127465ZHE#04

Tgt Ion: 63 Resp: 1033

Ion Ratio Lower Upper

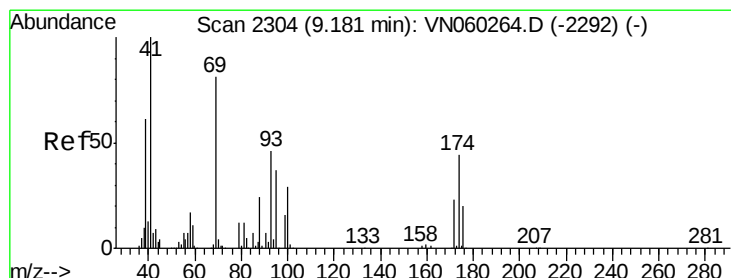
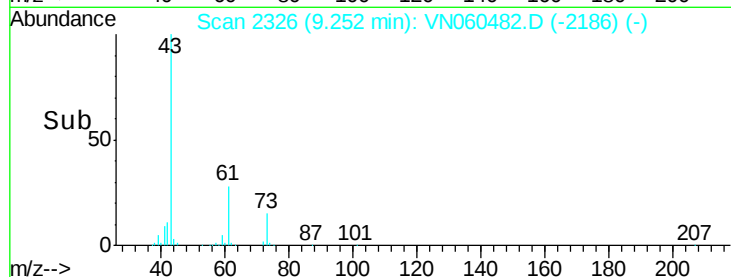
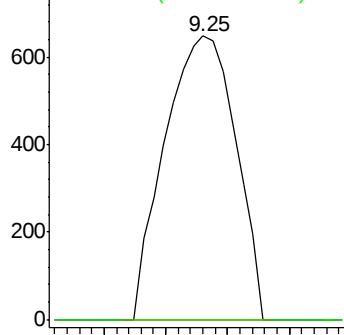
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.37 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

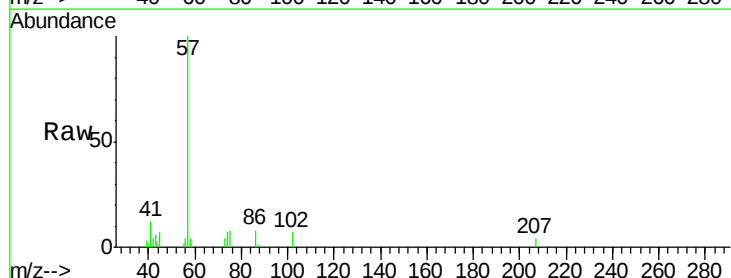
Tgt Ion: 41 Resp: 3050

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

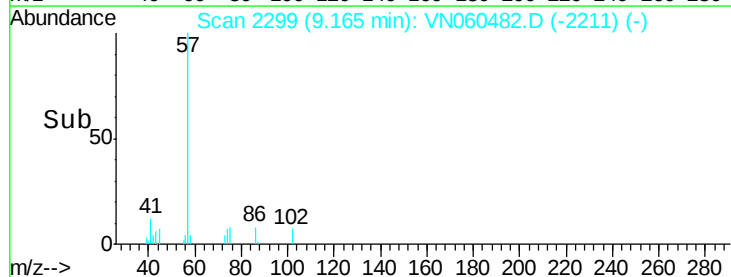
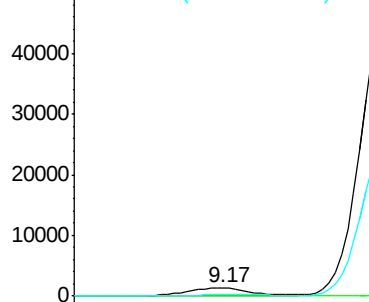
39 0.0 50.1 75.1#

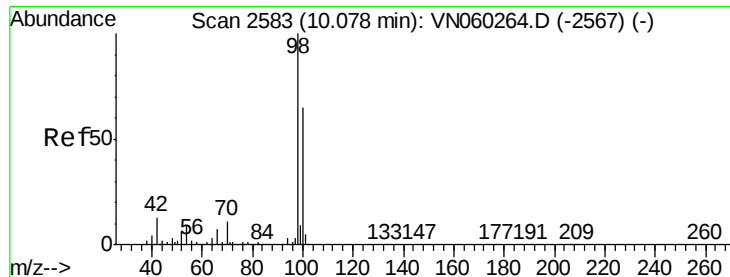


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.99 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

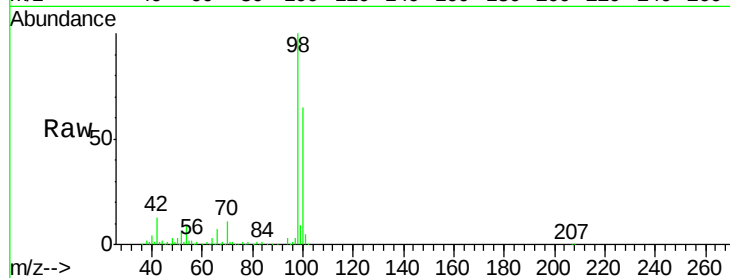
PB127465ZHE#04

Tgt Ion: 98 Resp: 385659

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

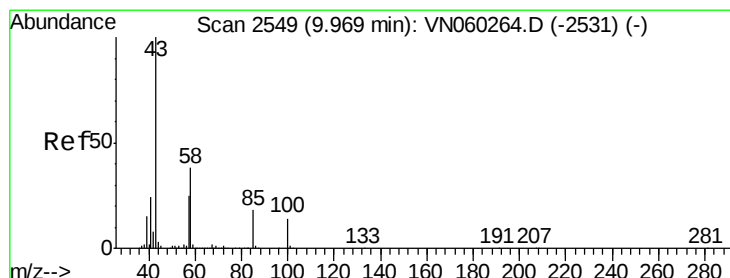
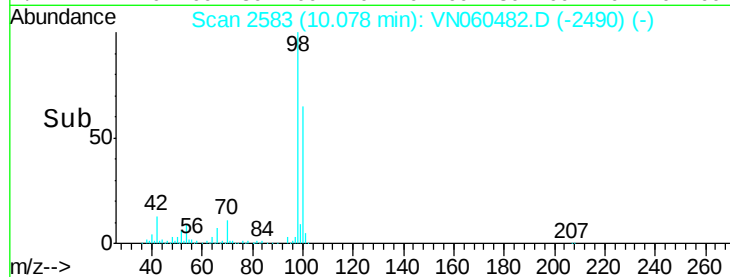
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.75 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060482.D

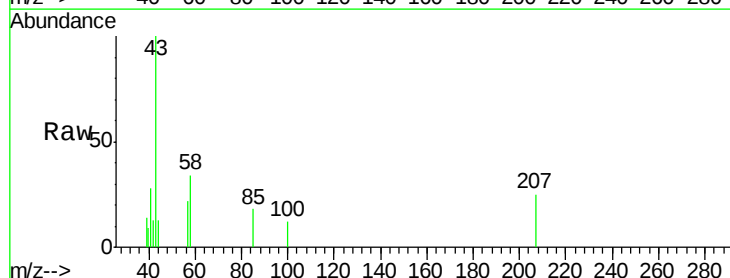
Acq: 12 Mar 2020 16:19

Tgt Ion: 43 Resp: 4854

Ion Ratio Lower Upper

43 100

58 32.0 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) (-)

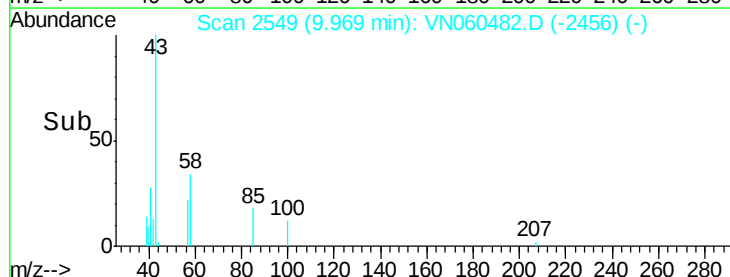
6000

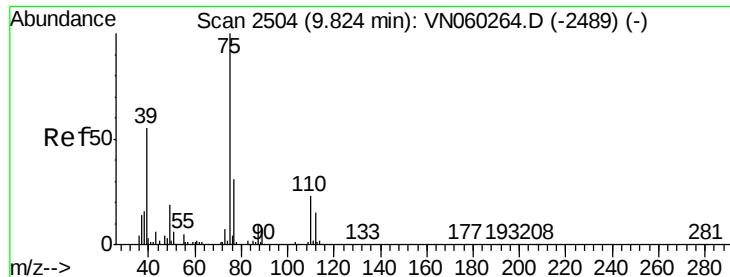
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.67 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#04

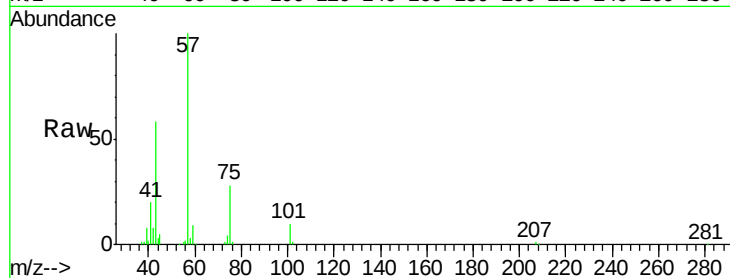
Tgt Ion: 75 Resp: 25094

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

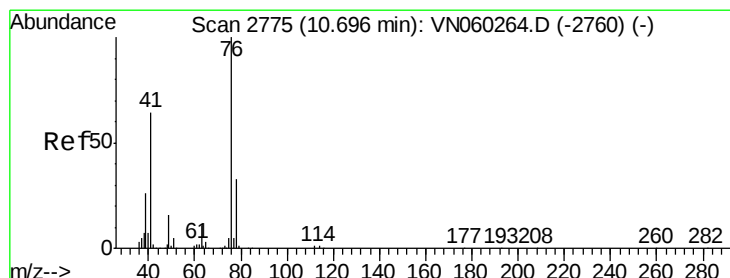
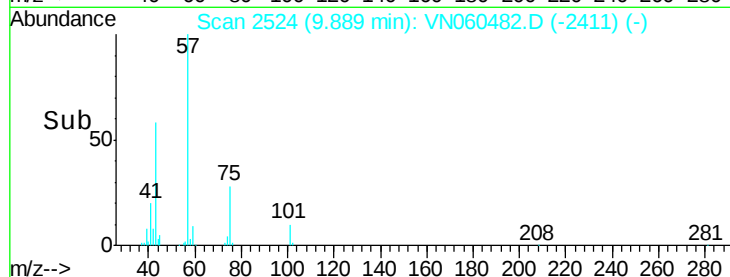
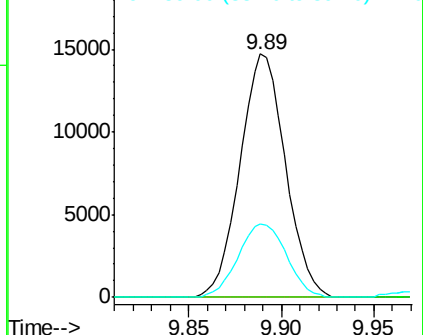
39 30.2 43.8 65.8#



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: 1.14 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060482.D

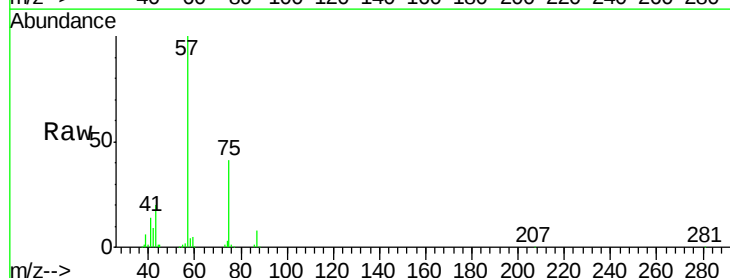
Acq: 12 Mar 2020 16:19

Tgt Ion: 76 Resp: 4019

Ion Ratio Lower Upper

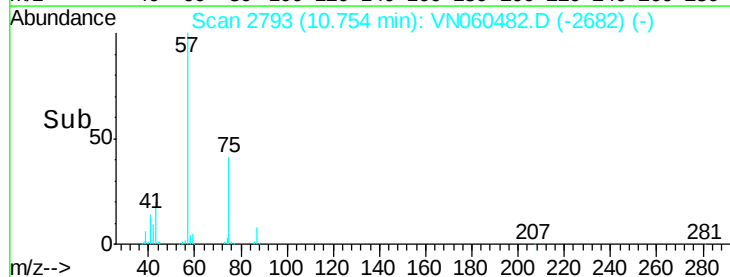
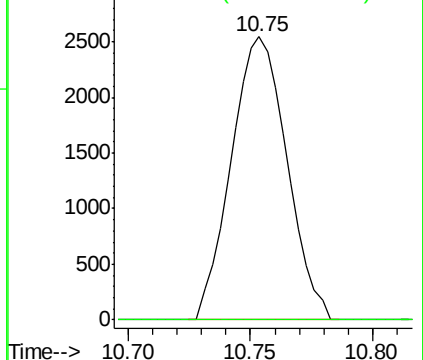
76 100

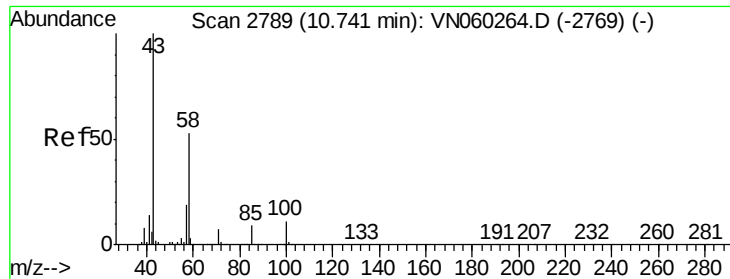
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 30.44 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

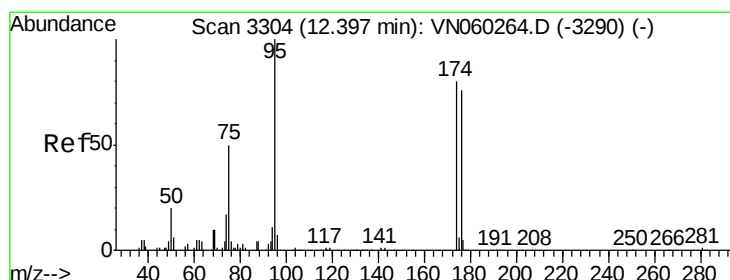
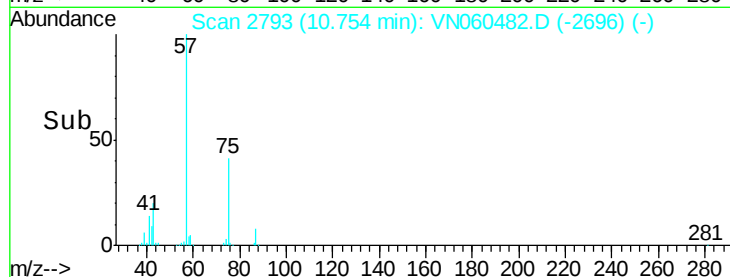
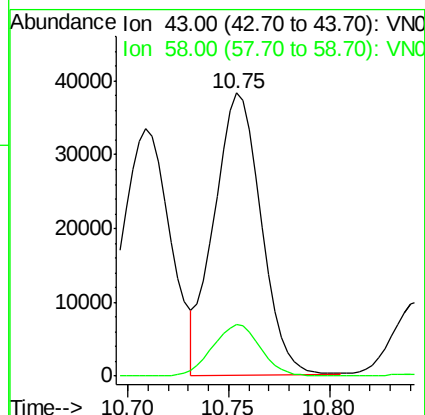
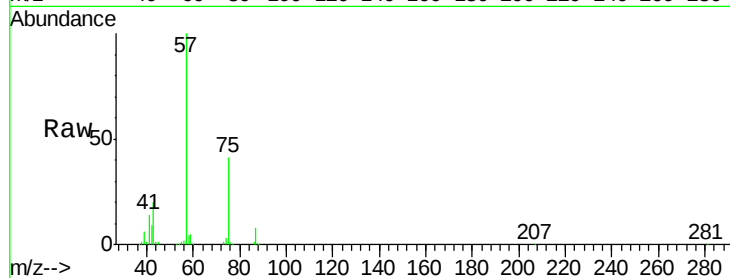
PB127465ZHE#04

Tgt Ion: 43 Resp: 62010

Ion Ratio Lower Upper

43 100

58 18.5 26.5 79.5#



#62

4-Bromofluorobenzene

Concen: 51.98 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

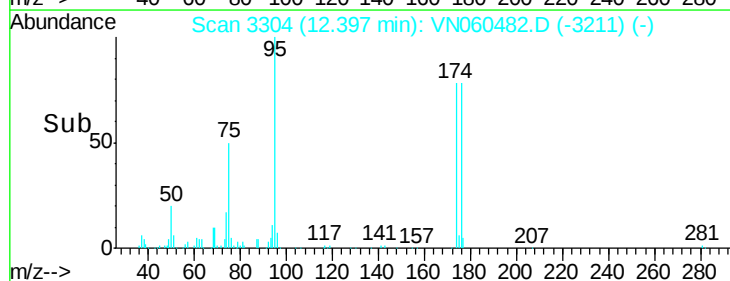
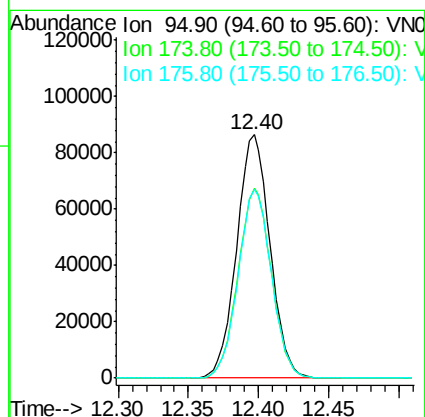
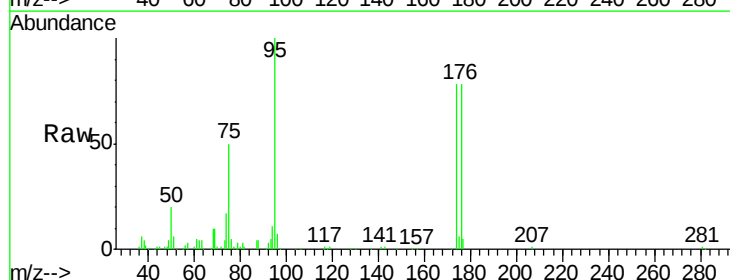
Tgt Ion: 95 Resp: 143400

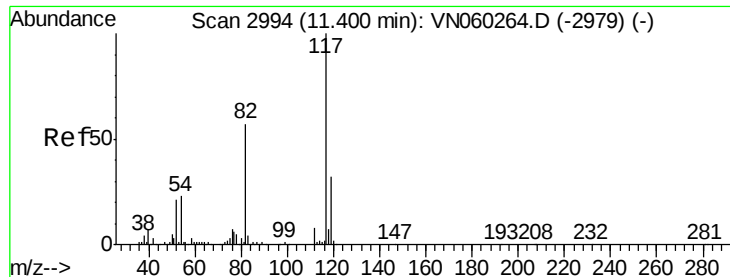
Ion Ratio Lower Upper

95 100

174 78.0 0.0 159.2

176 77.1 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#04

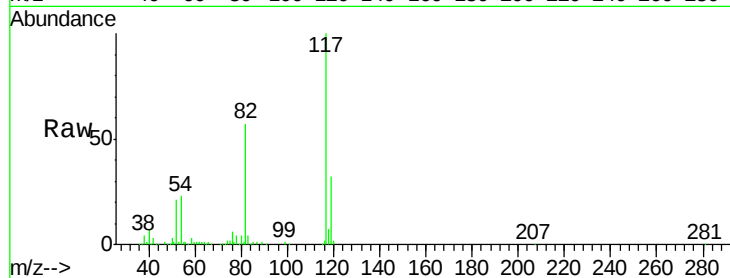
Tgt Ion:117 Resp: 291718

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.6

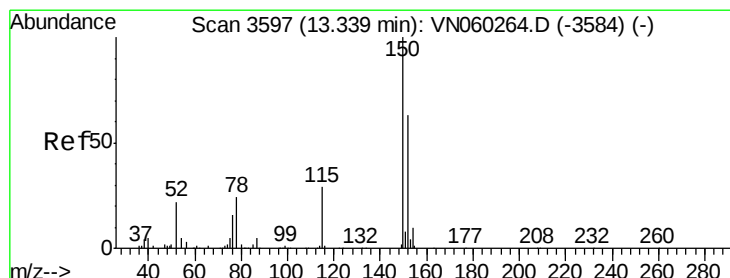
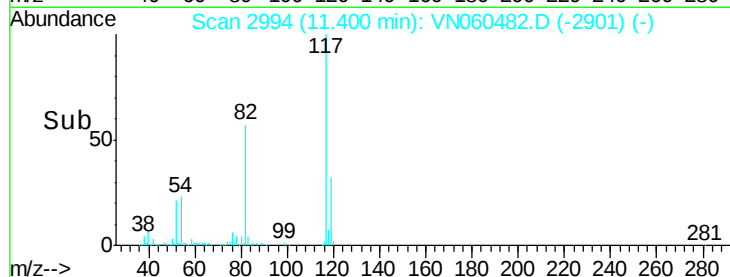
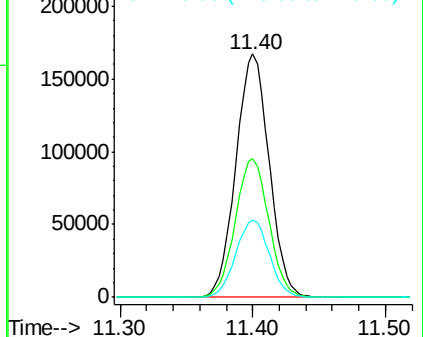
119 31.9 25.8 38.8



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: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

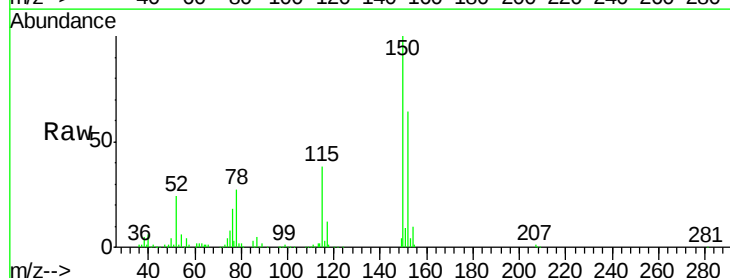
Tgt Ion:152 Resp: 133316

Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.0

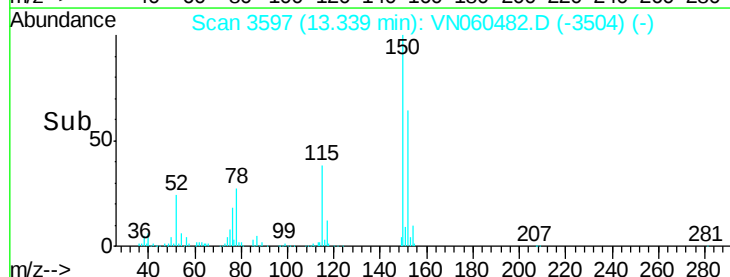
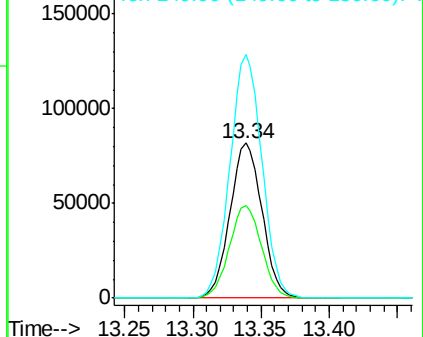
150 157.3 0.0 349.6

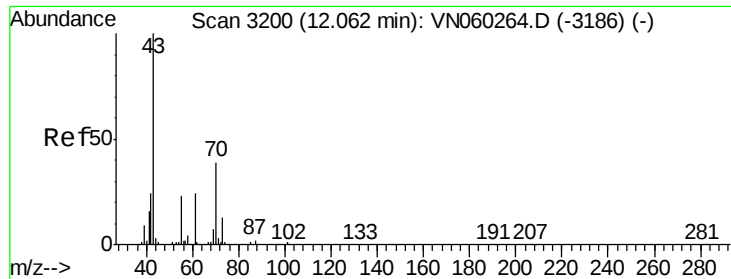


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.59 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#04

Tgt Ion: 43 Resp: 2534

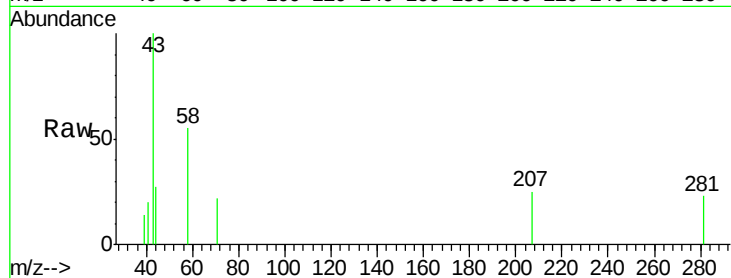
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

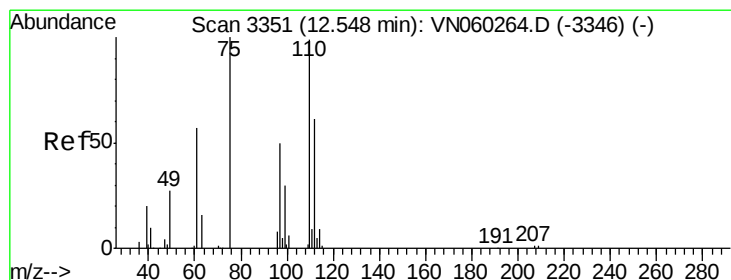
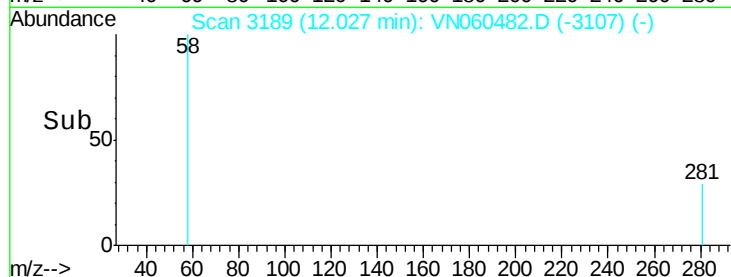
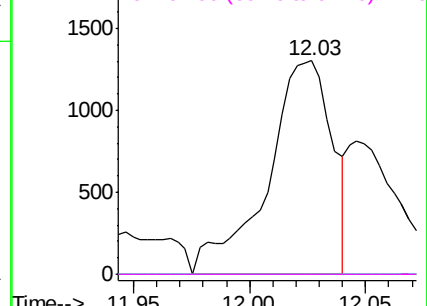


Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-3186) (-)

Ion 70.00 (69.70 to 70.70): VN060264.D (-3186) (-)

Ion 55.00 (54.70 to 55.70): VN060264.D (-3186) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-3186) (-)



#76

1,2,3-Trichloropropane

Concen: 24.59 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060482.D

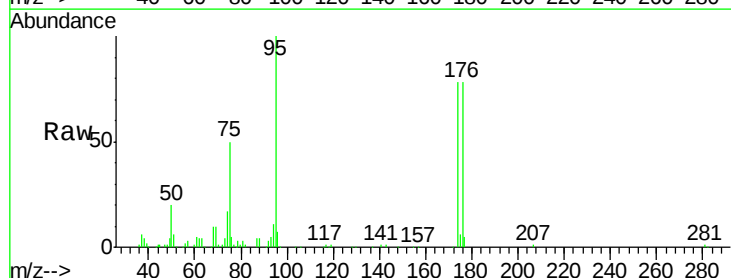
Acq: 12 Mar 2020 16:19

Tgt Ion: 75 Resp: 71911

Ion Ratio Lower Upper

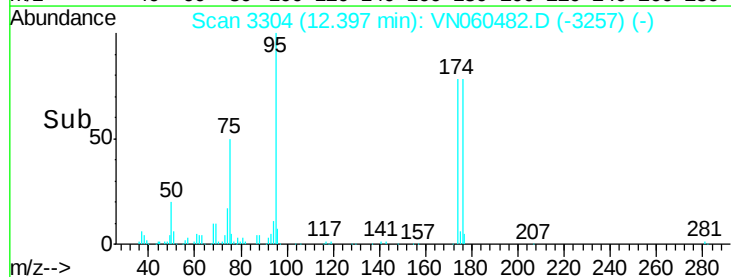
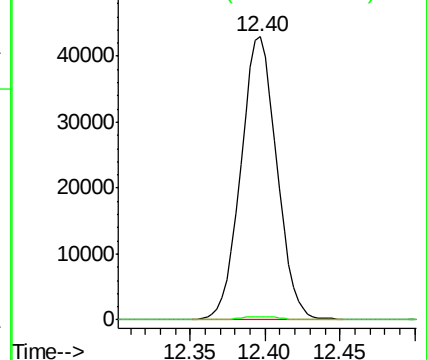
75 100

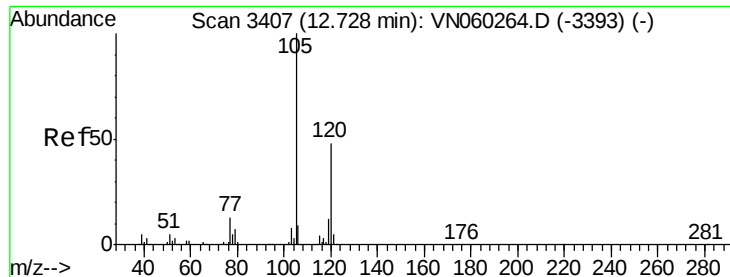
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060264.D (-3346) (-)





#80

1,3,5-Trimethylbenzene

Concen: 0.37 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

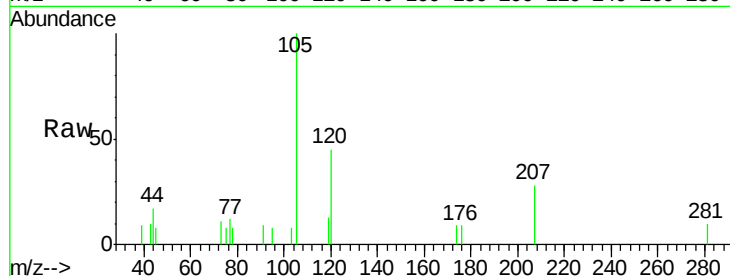
PB127465ZHE#04

Tgt Ion: 105 Resp: 3076

Ion Ratio Lower Upper

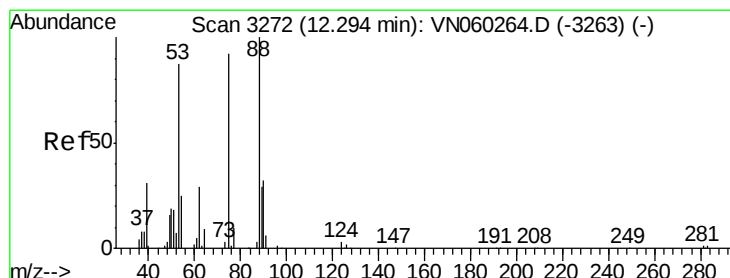
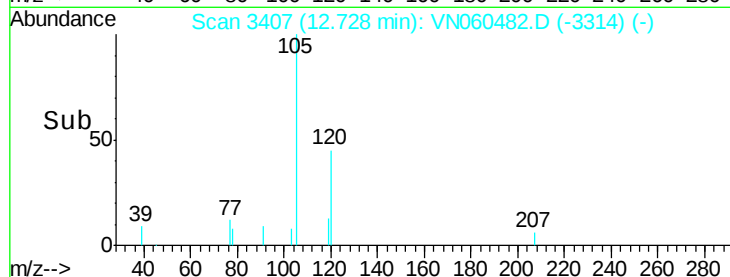
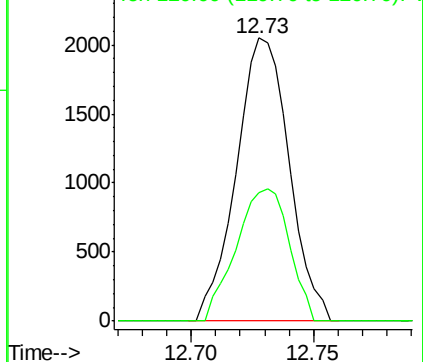
105 100

120 47.0 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: 67.87 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060482.D

Acq: 12 Mar 2020 16:19

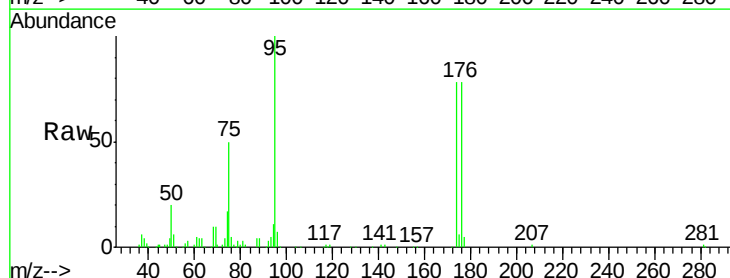
Tgt Ion: 75 Resp: 71911

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

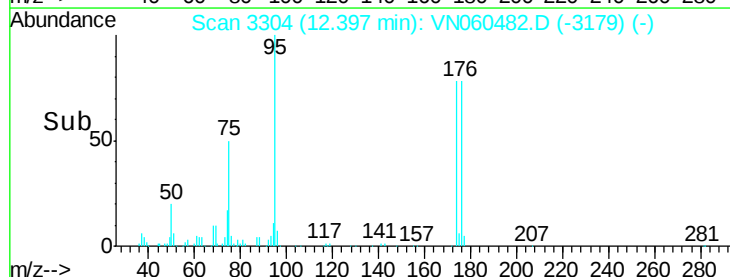
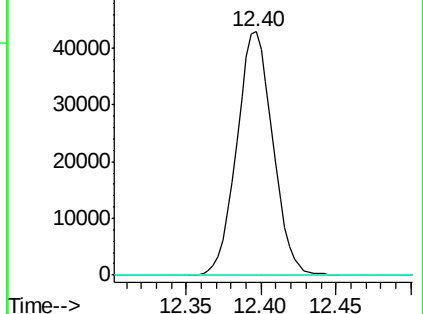
89 0.0 57.1 85.7#

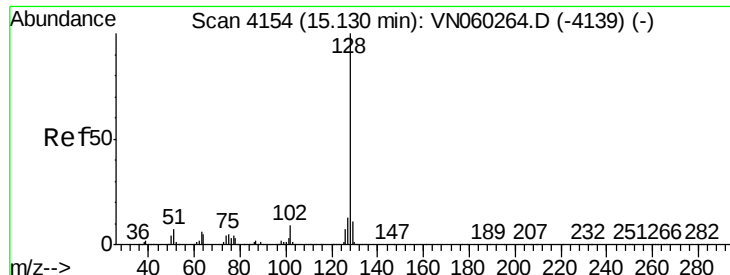


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060482.D

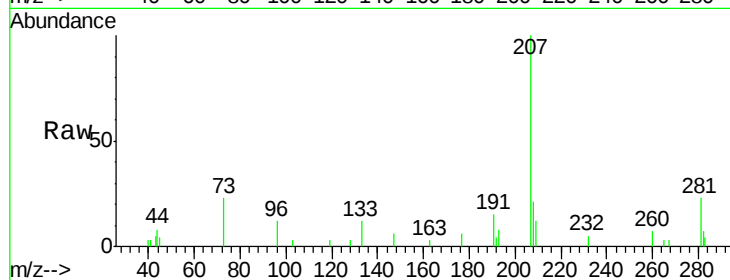
Acq: 12 Mar 2020 16:19

Instrument :

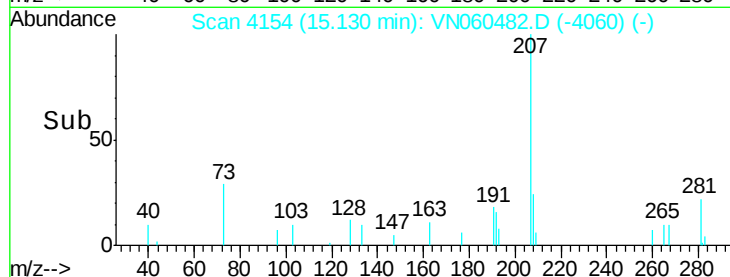
MSVOA_N

ClientSampleId :

PB127465ZHE#04



Tgt Ion:	128	Resp:	71
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

