

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060531.D
 Acq On : 16 Mar 2020 18:15
 Operator : JC/MD
 Sample : PB127541ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#04

Quant Time: Mar 17 08:46:24 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	207052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	345649	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	326346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	151251	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	135170	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
35) Dibromofluoromethane	7.56	113	102584	63.94	ug/l	0.00
Spiked Amount			Recovery	=	127.88%	
50) Toluene-d8	10.08	98	428677	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
62) 4-Bromofluorobenzene	12.40	95	161162	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6808	7.936	ug/l	94
18) Methyl Acetate	4.30	43	2149	0.751	ug/l #	65
20) Methylene Chloride	4.52	84	4429	1.880	ug/l	98
25) 2-Butanone	6.81	43	1392	1.005	ug/l #	49
31) Cyclohexane	7.64	56	4306	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16150	4.903	ug/l #	49
38) Carbon Tetrachloride	7.64	117	19557	6.098	ug/l #	16
43) Isopropyl Acetate	8.14	43	70607	12.930	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1313	0.524	ug/l #	44
48) Methyl methacrylate	9.16	41	3656	1.468	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5936	1.917	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	29487	7.020	ug/l #	58
56) Ethyl methacrylate	10.53	69	748	0.215	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4884	1.236	ug/l #	42
59) 2-Hexanone	10.75	43	71909	31.633	ug/l #	52
74) N-amyl acetate	12.02	43	2317	0.473	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	81366	24.519	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3206	0.340	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	81366	67.685	ug/l #	8
95) Naphthalene	15.12	128	31	Below Cal	#	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

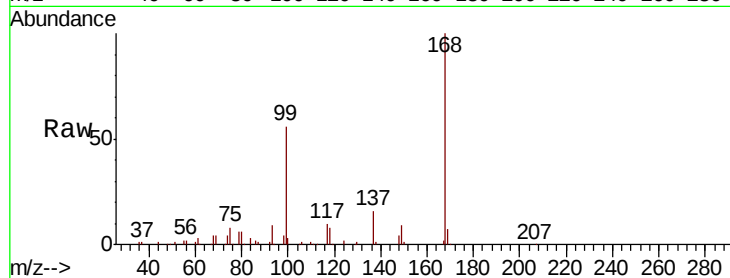
PB127541ZHE#04

Tot Ion:168 Resp: 207052

Ion Ratio Lower Upper

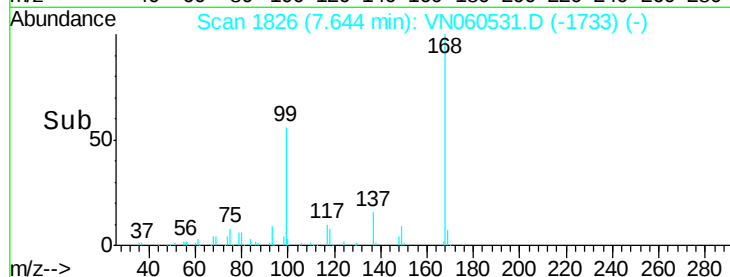
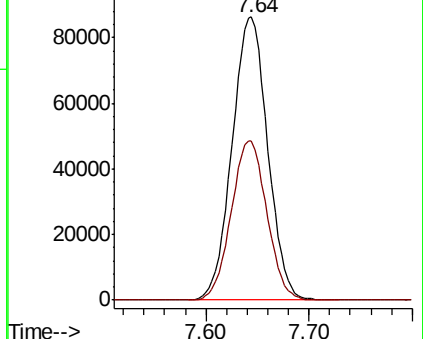
168 100

99 56.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060531.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060531.D (-1733) (-)



#16

Acetone

Concen: 7.936 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060531.D

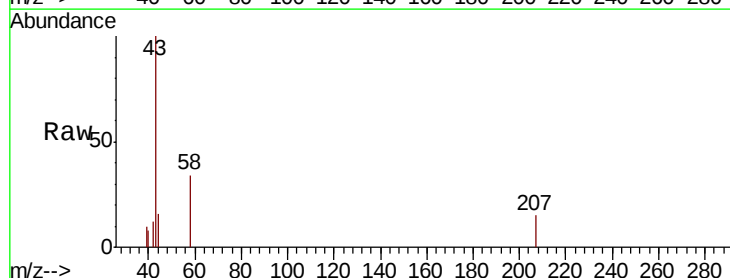
Acq: 16 Mar 2020 18:15

Tgt Ion: 43 Resp: 6808

Ion Ratio Lower Upper

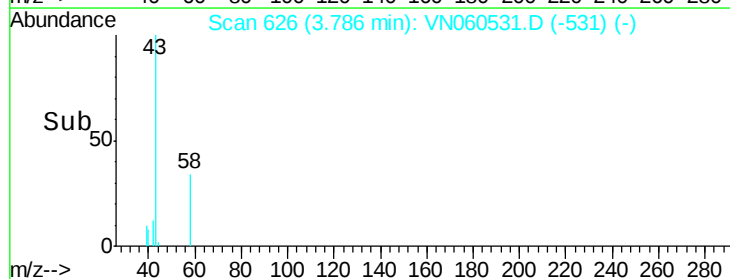
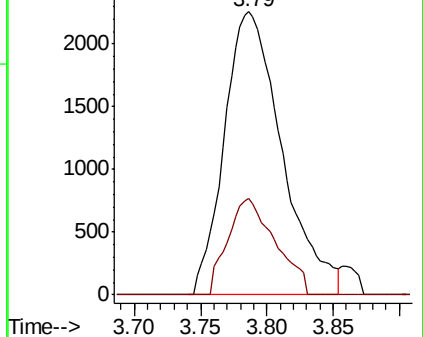
43 100

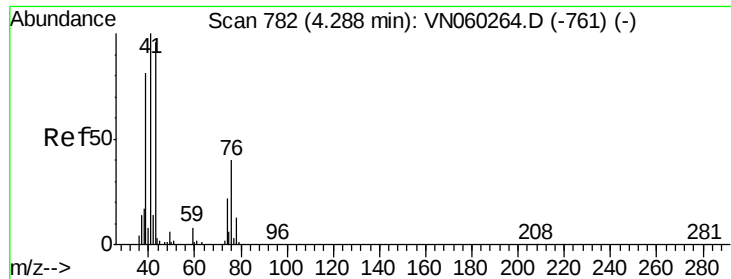
58 34.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060531.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060531.D (-531) (-)

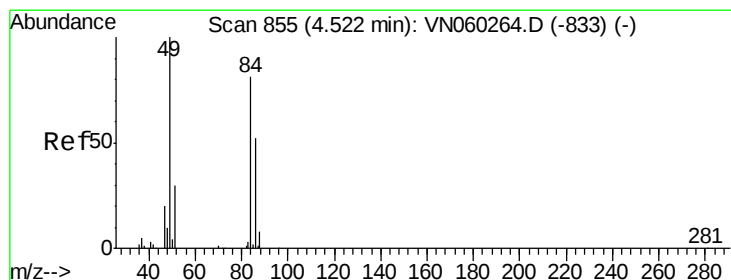
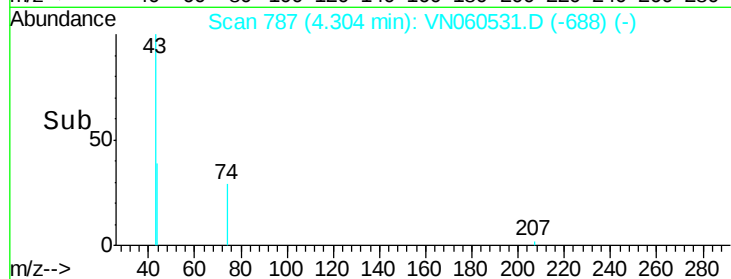
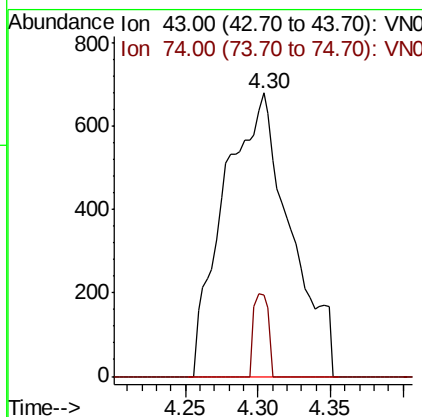
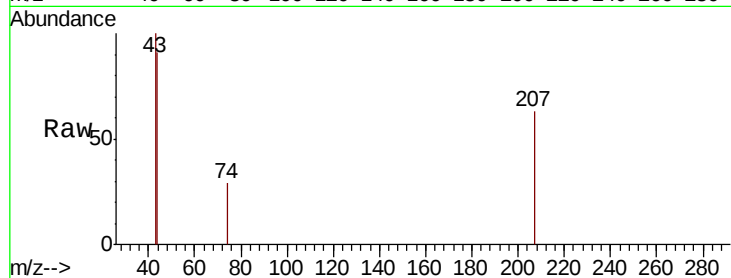




#18
Methyl Acetate
Concen: 0.751 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

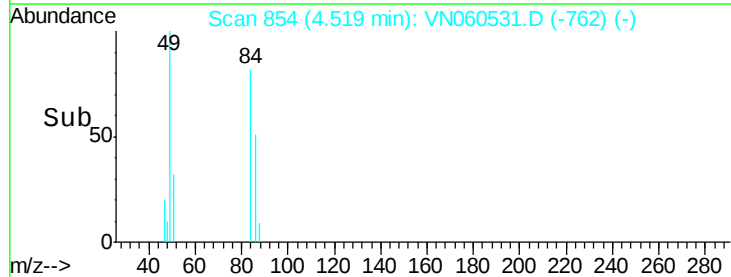
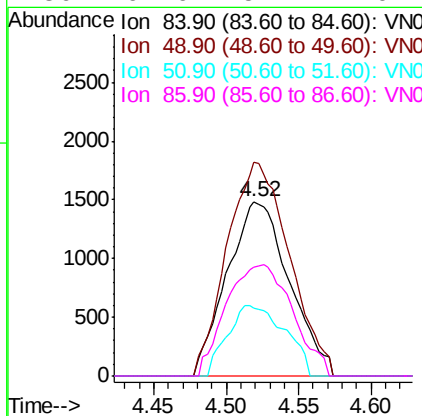
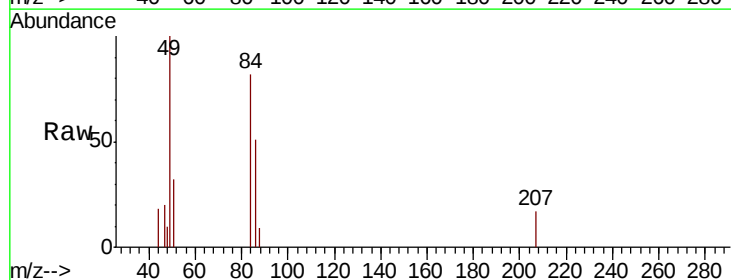
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#04

Tot Ion: 43 Resp: 2149
Ion Ratio Lower Upper
43 100
74 6.5 18.8 28.2#



#20
Methylene Chloride
Concen: 1.880 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

Tgt Ion: 84 Resp: 4429
Ion Ratio Lower Upper
84 100
49 122.6 99.3 148.9
51 38.8 30.1 45.1
86 62.6 51.1 76.7





#25

2-Butanone

Concen: 1.005 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

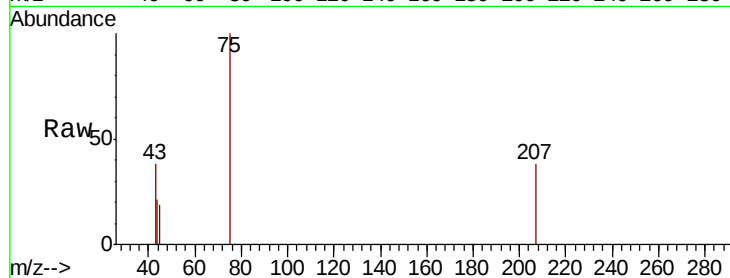
PB127541ZHE#04

Tot Ion: 43 Resp: 1392

Ion Ratio Lower Upper

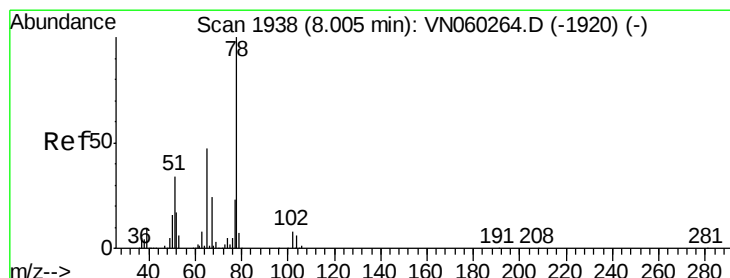
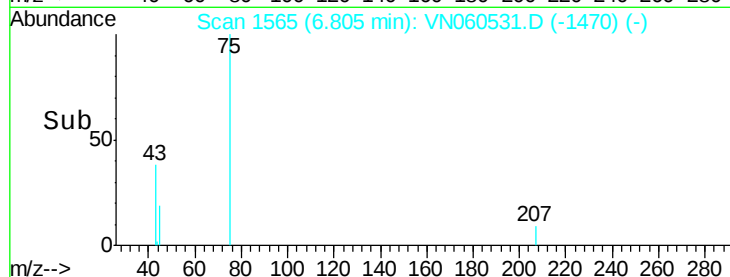
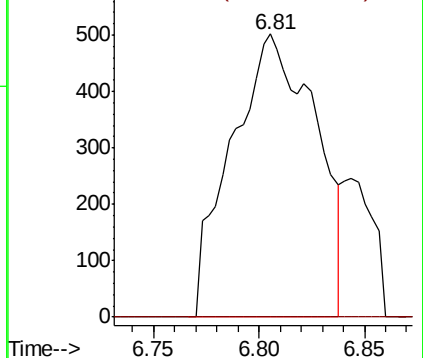
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.883 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060531.D

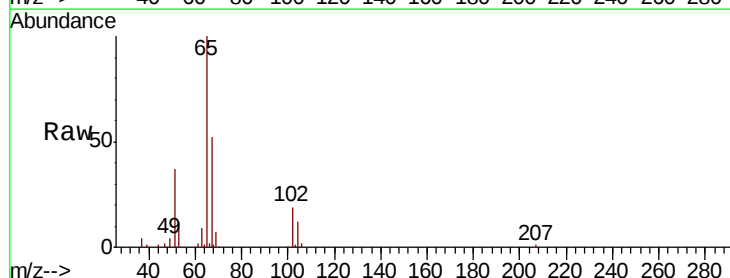
Acq: 16 Mar 2020 18:15

Tgt Ion: 65 Resp: 135170

Ion Ratio Lower Upper

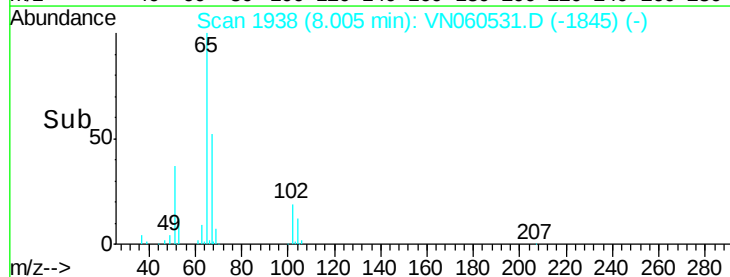
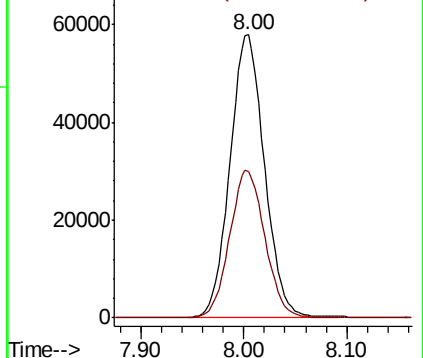
65 100

67 53.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

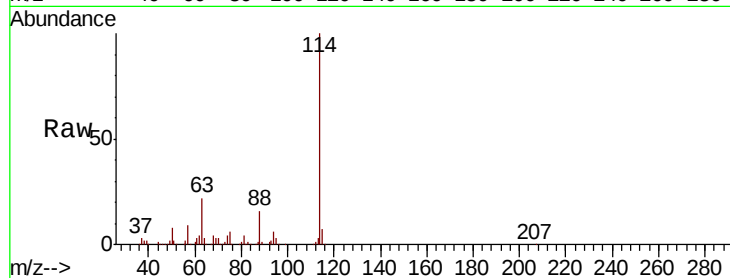




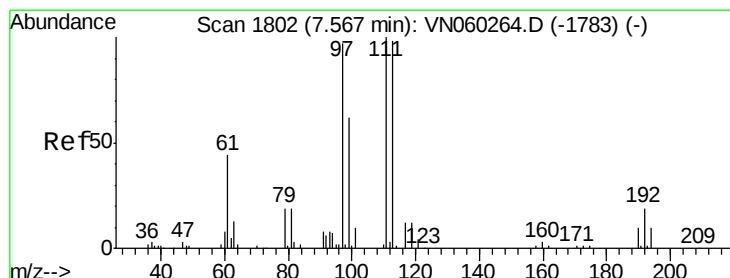
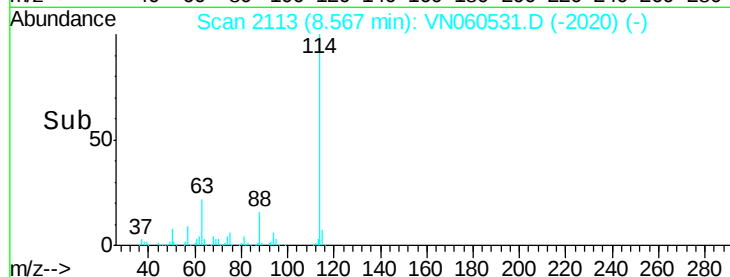
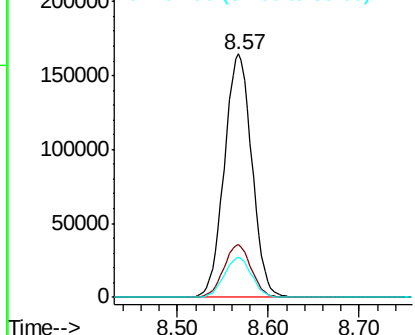
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#04

Tot Ion:114 Resp: 345649
Ion Ratio Lower Upper
114 100
63 21.7 0.0 43.2
88 16.2 0.0 31.6

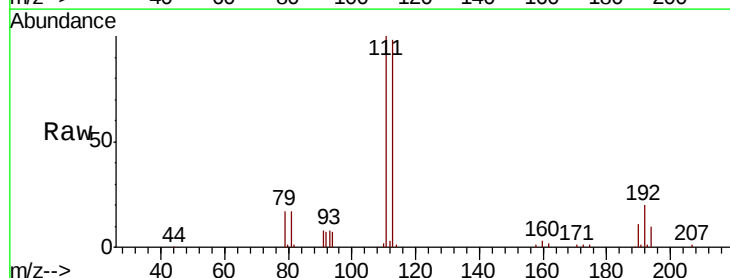


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

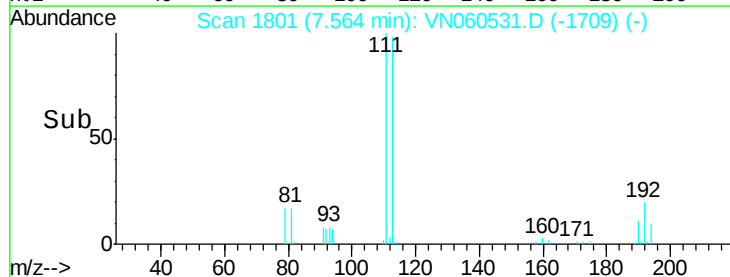
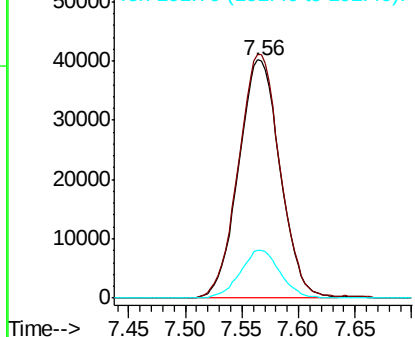


#35
Dibromofluoromethane
Concen: 63.940 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

Tgt Ion:113 Resp: 102584
Ion Ratio Lower Upper
113 100
111 102.2 82.4 123.6
192 19.4 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: 4.903 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#04

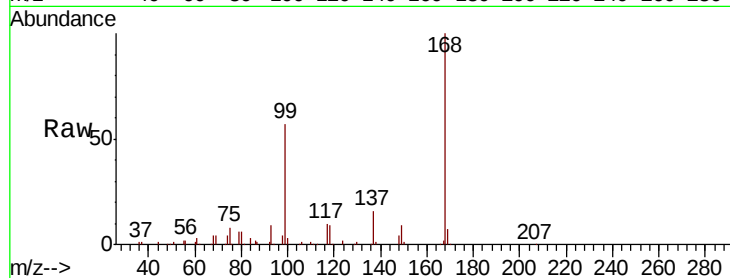
Tot Ion: 75 Resp: 16150

Ion Ratio Lower Upper

75 100

110 8.0 17.3 52.0#

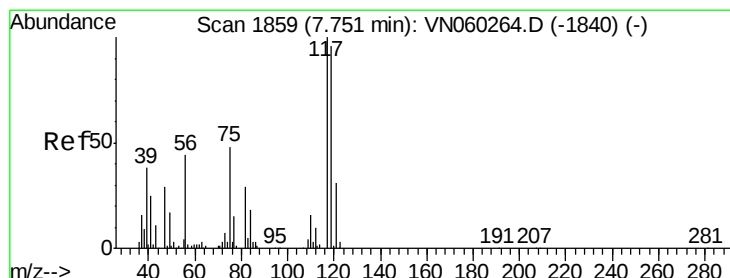
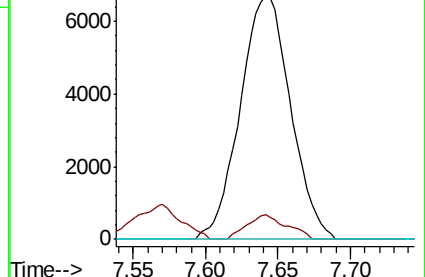
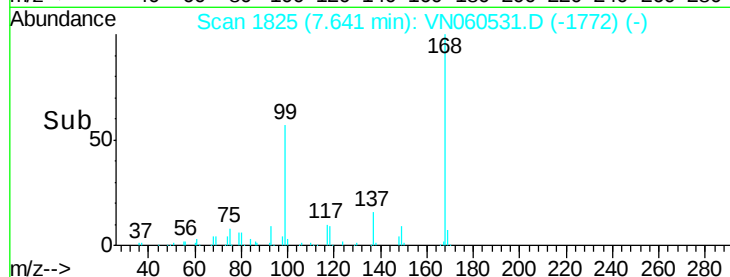
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060531.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060531.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060531.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.098 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

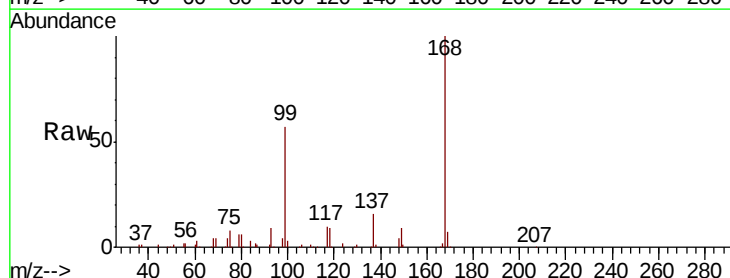
Tgt Ion: 117 Resp: 19557

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

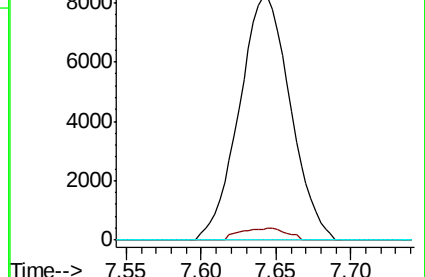
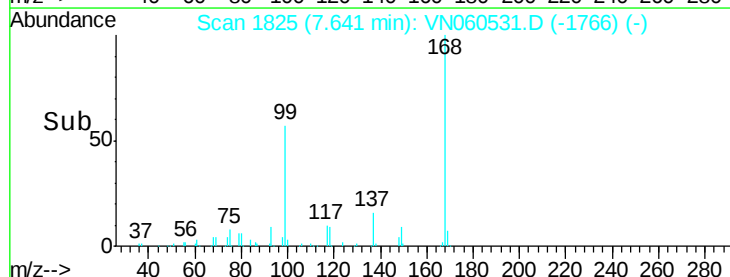
121 0.0 24.5 36.7#

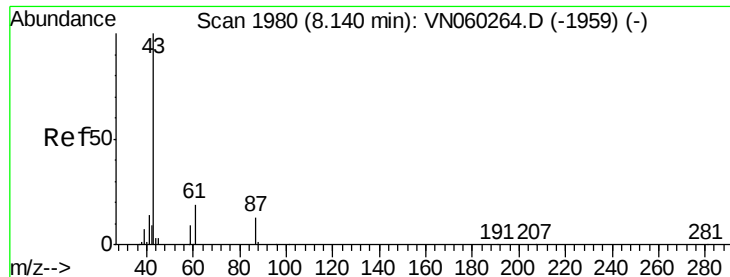


Abundance Ion 116.80 (116.50 to 117.50): VN060531.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060531.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060531.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 12.930 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#04

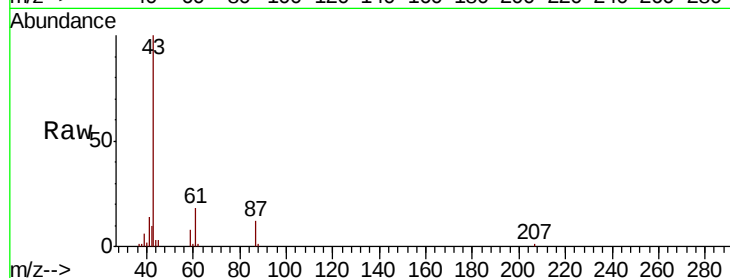
Tot Ion: 43 Resp: 70607

Ion Ratio Lower Upper

43 100

61 18.9 20.9 31.3#

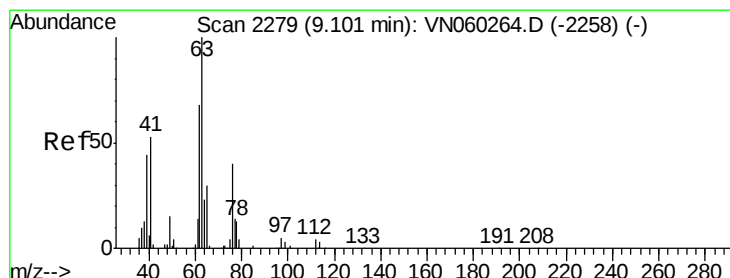
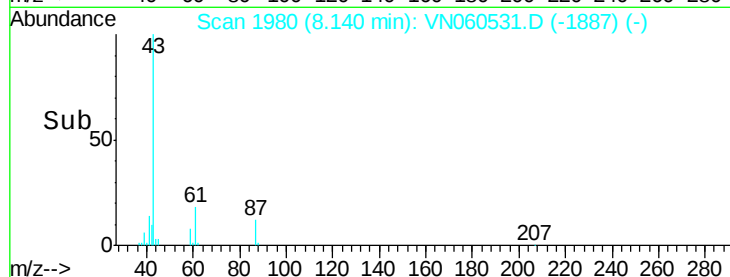
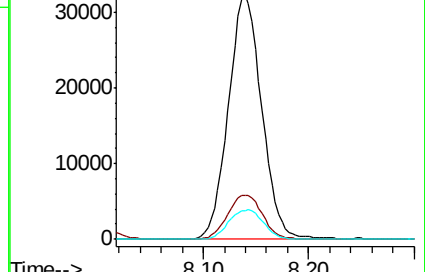
87 12.4 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060531.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060531.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060531.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.524 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060531.D

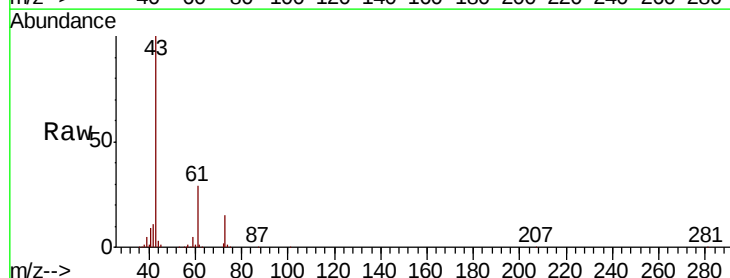
Acq: 16 Mar 2020 18:15

Tgt Ion: 63 Resp: 1313

Ion Ratio Lower Upper

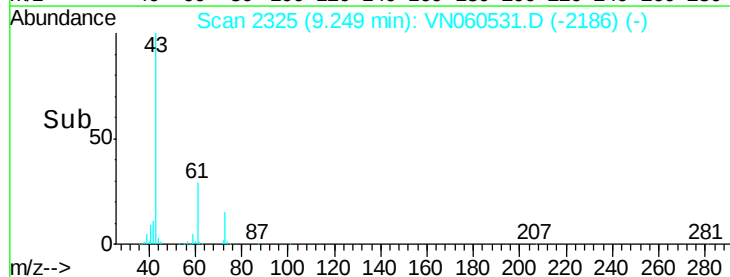
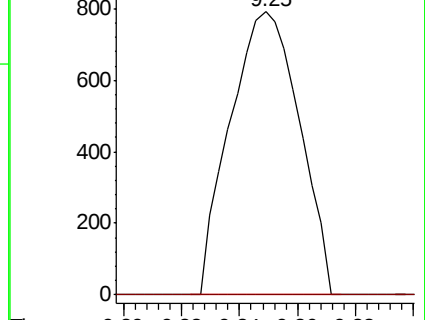
63 100

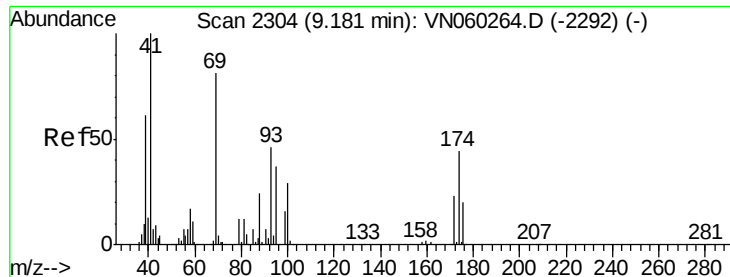
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060531.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060531.D (-2186) (-)

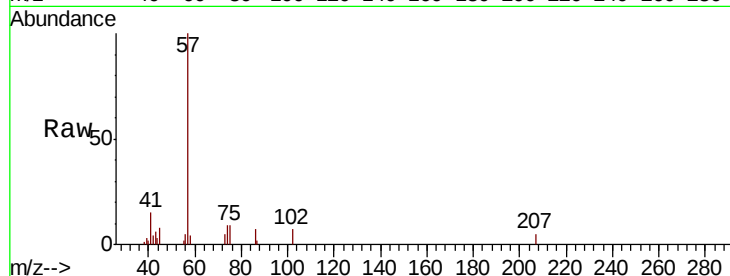




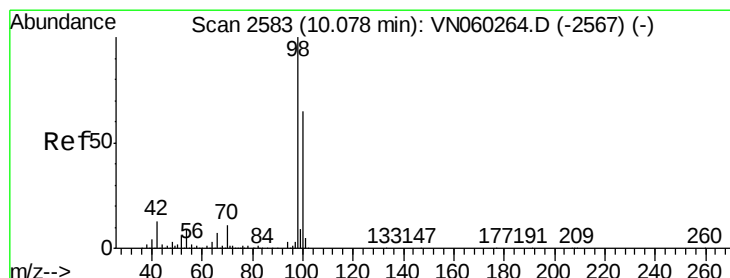
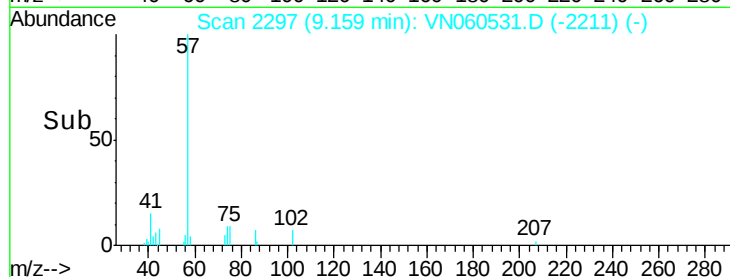
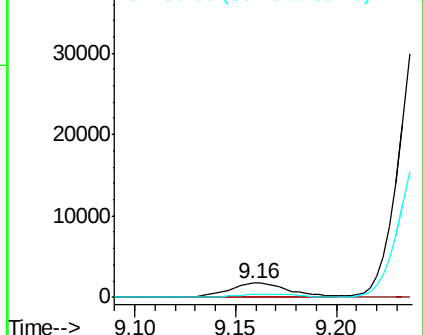
#48
Methvl methacrylate
Concen: 1.468 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#04

Tot Ion: 41 Resp: 3656
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

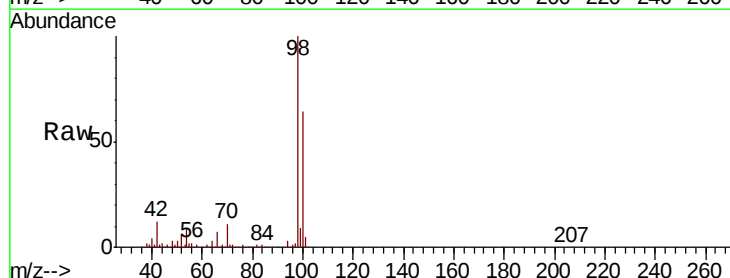


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

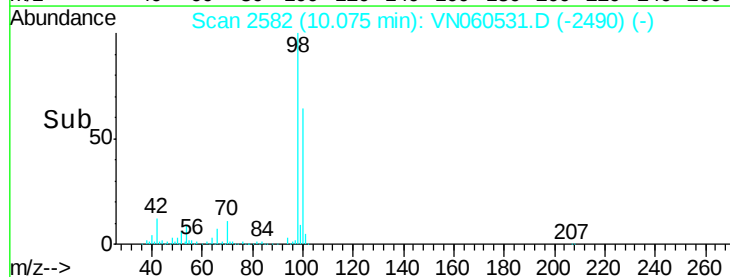
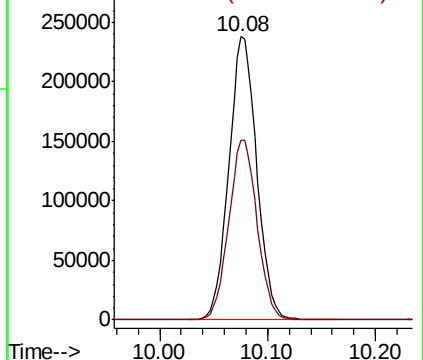


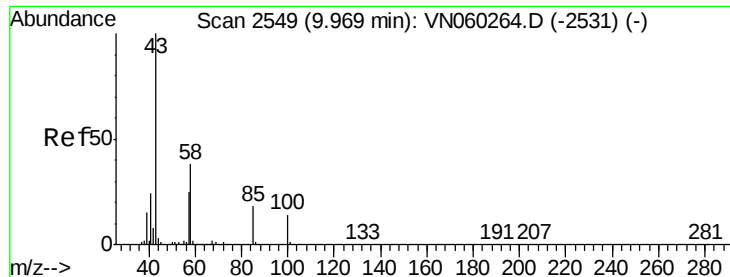
#50
Toluene-d8
Concen: 52.793 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

Tgt Ion: 98 Resp: 428677
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.917 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

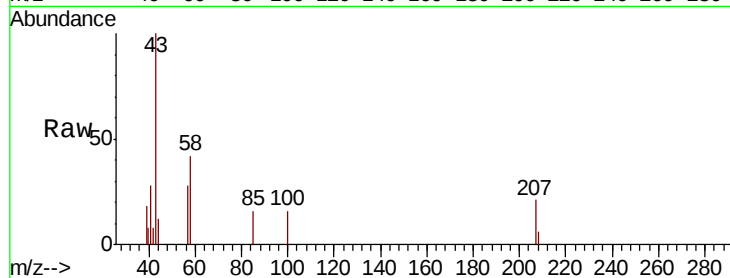
PB127541ZHE#04

Tot Ion: 43 Resp: 5936

Ion Ratio Lower Upper

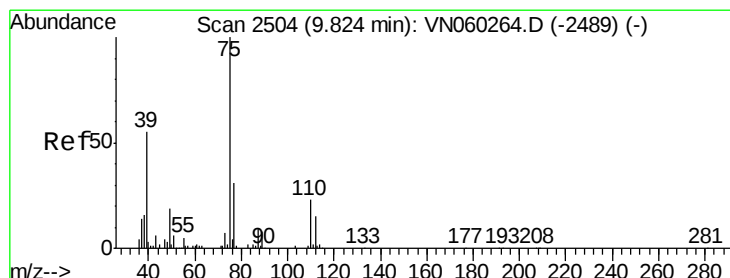
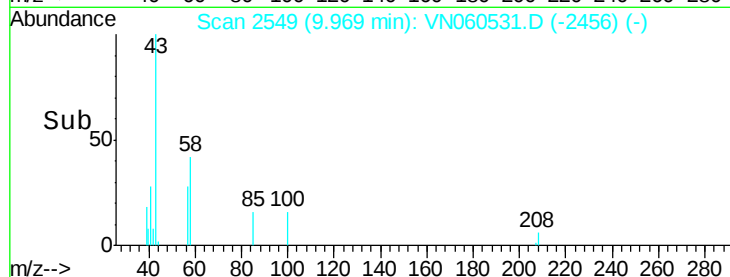
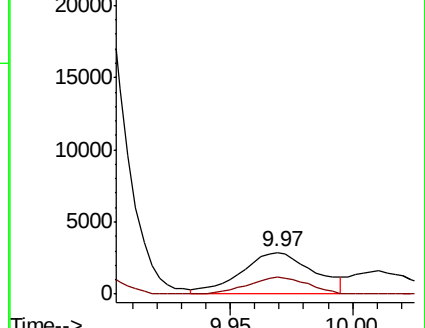
43 100

58 33.9 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060531.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060531.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.020 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

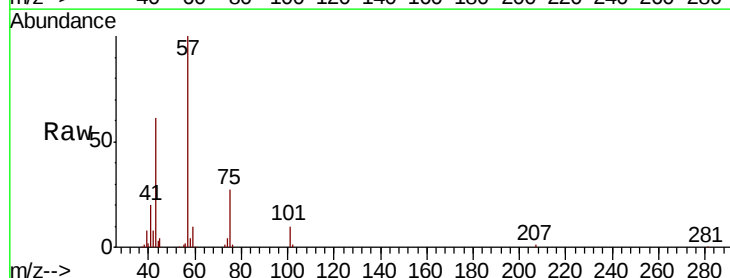
Tgt Ion: 75 Resp: 29487

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

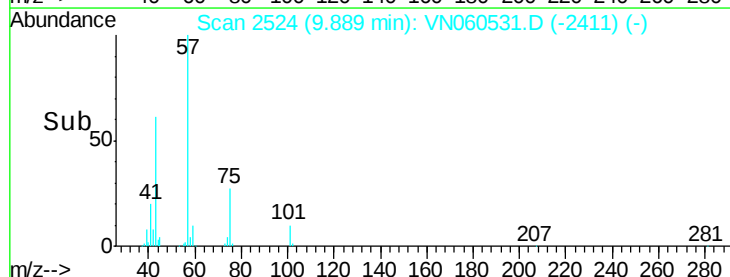
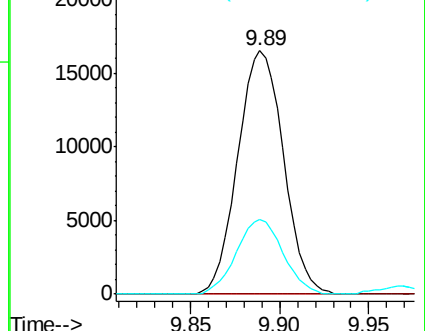
39 30.5 43.8 65.8#

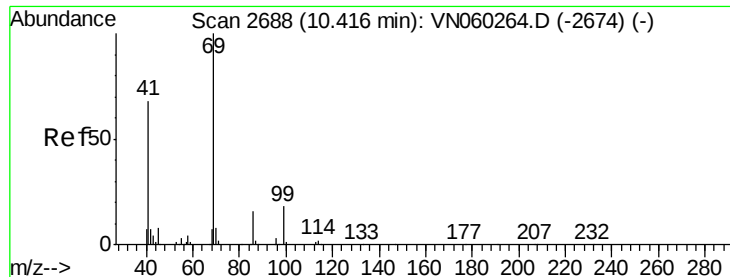


Abundance Ion 74.90 (74.60 to 75.60): VN060531.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060531.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060531.D (-2411) (-)





#56

Ethyl methacrylate

Concen: 0.215 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. 0.11 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#04

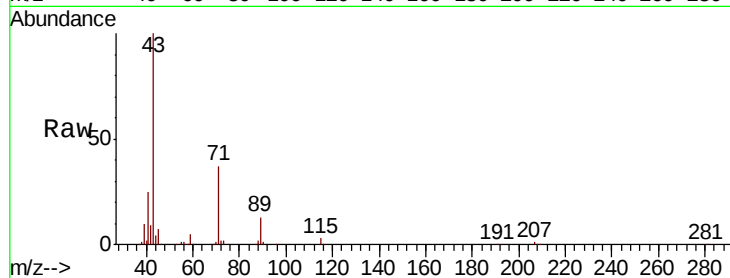
Tot Ion: 69 Resp: 748

Ion Ratio Lower Upper

69 100

41 8229.8 54.1 81.1#

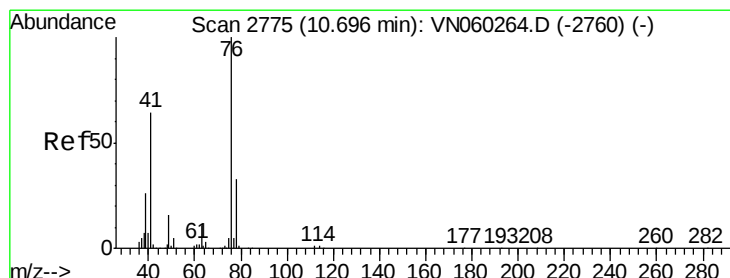
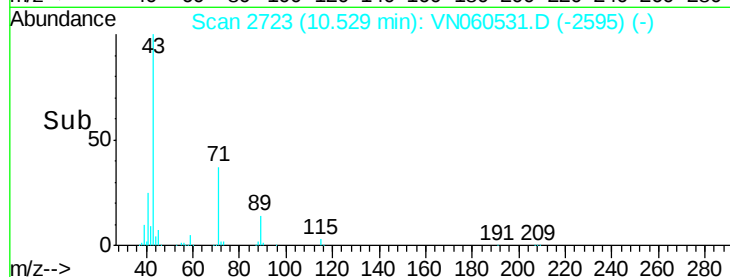
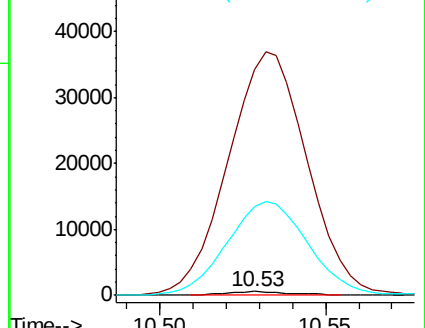
39 3243.2 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.236 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060531.D

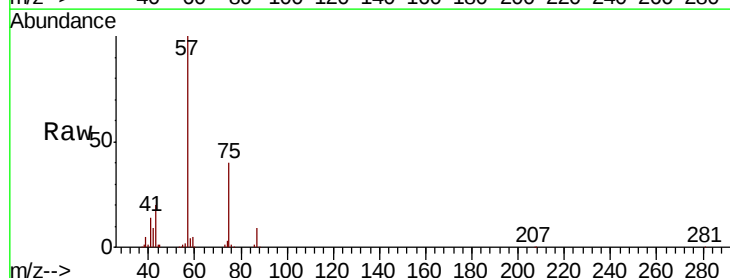
Acq: 16 Mar 2020 18:15

Tgt Ion: 76 Resp: 4884

Ion Ratio Lower Upper

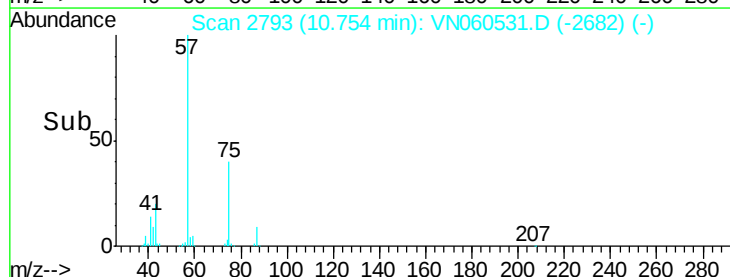
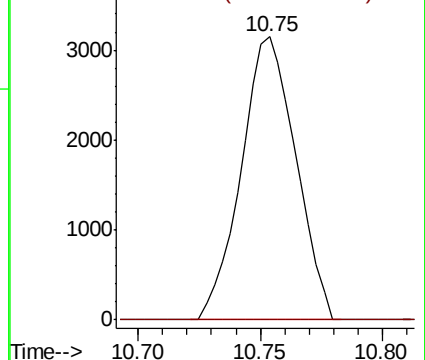
76 100

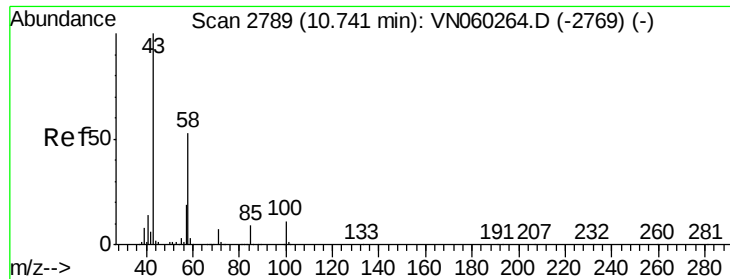
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

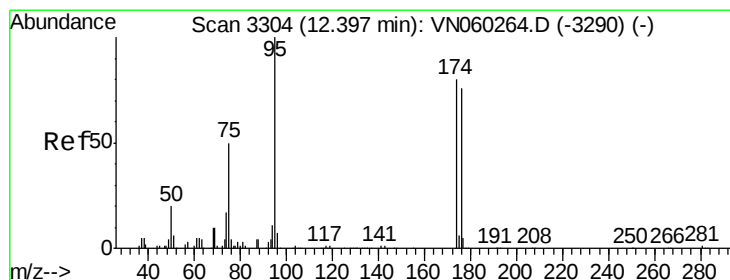
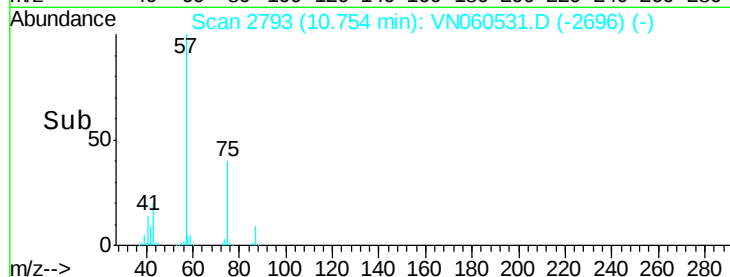
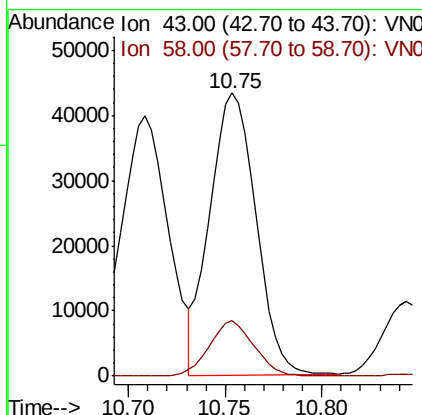
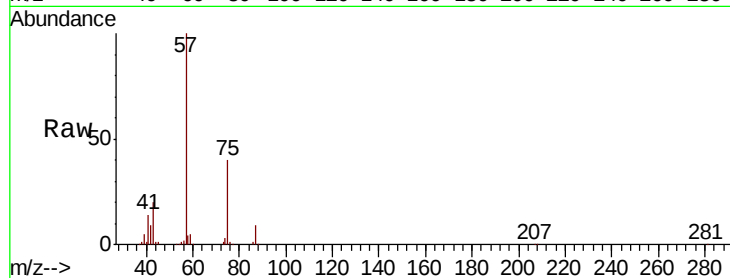




#59
2-Hexanone
Concen: 31.633 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

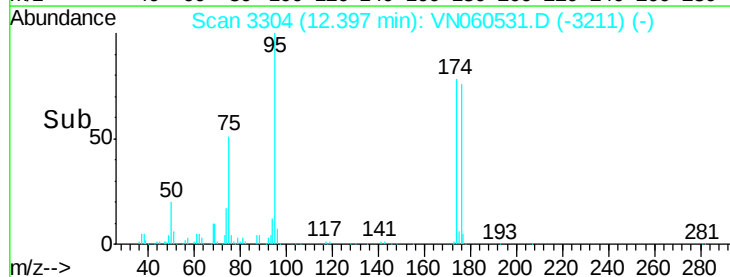
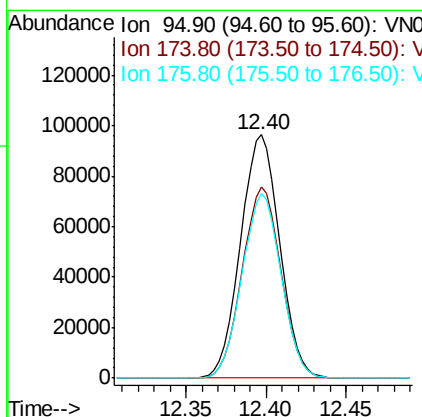
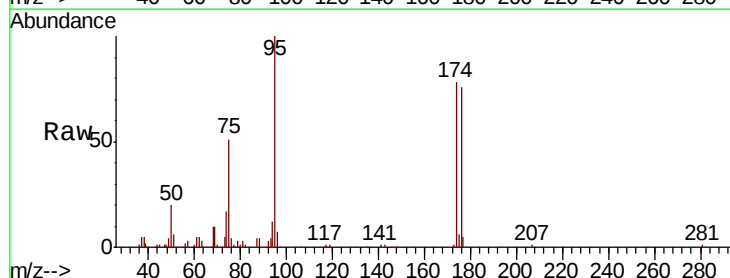
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#04

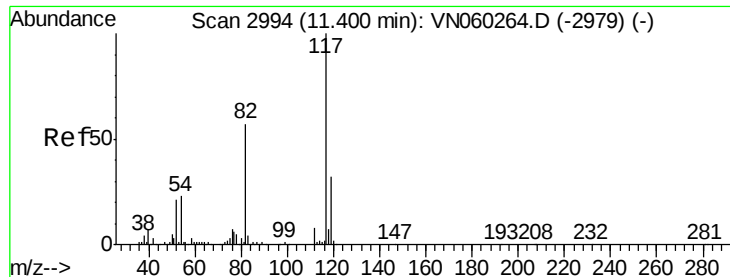
Tot Ion: 43 Resp: 71909
Ion Ratio Lower Upper
43 100
58 19.0 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.358 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060531.D
Acq: 16 Mar 2020 18:15

Tgt Ion: 95 Resp: 161162
Ion Ratio Lower Upper
95 100
174 78.2 0.0 159.2
176 75.8 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: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#04

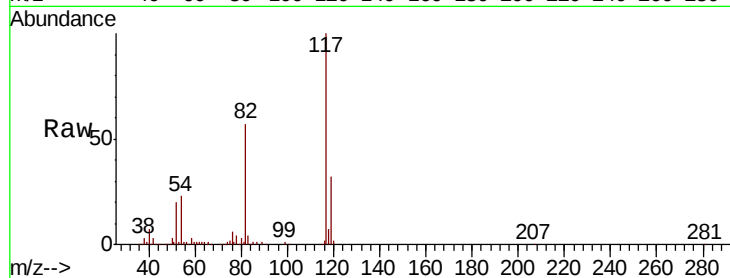
Tot Ion:117 Resp: 326346

Ion Ratio Lower Upper

117 100

82 57.2 45.8 68.6

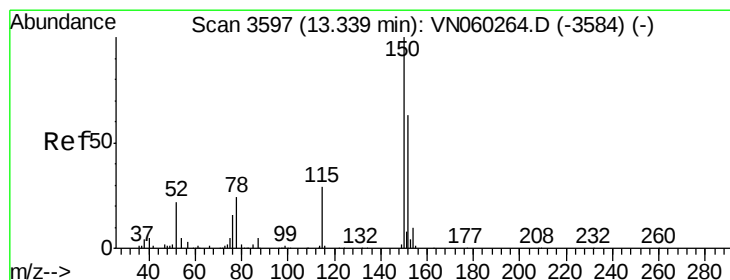
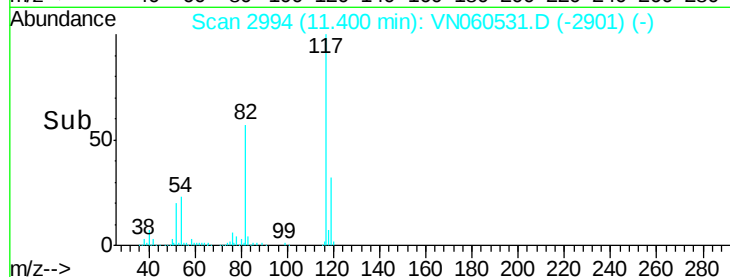
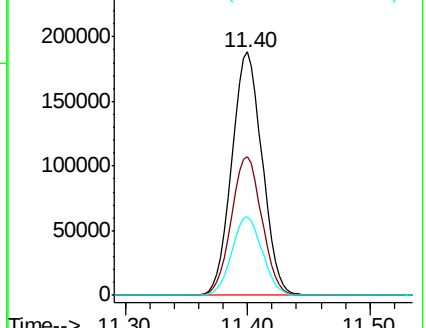
119 32.4 25.8 38.8



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: VN060531.D

Acq: 16 Mar 2020 18:15

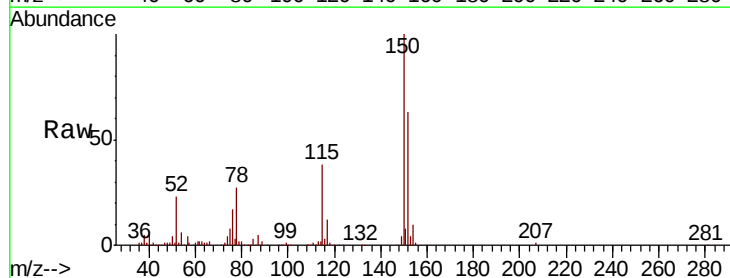
Tgt Ion:152 Resp: 151251

Ion Ratio Lower Upper

152 100

115 59.6 30.0 90.0

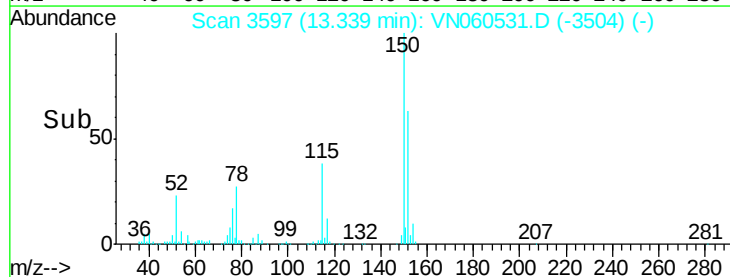
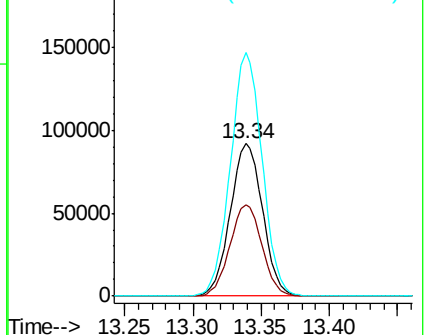
150 157.0 0.0 349.6

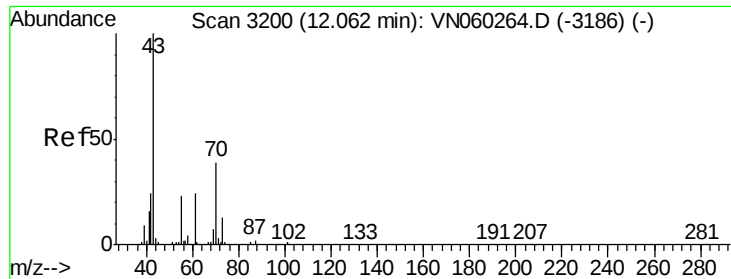


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.473 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#04

Tot Ion: 43 Resp: 2317

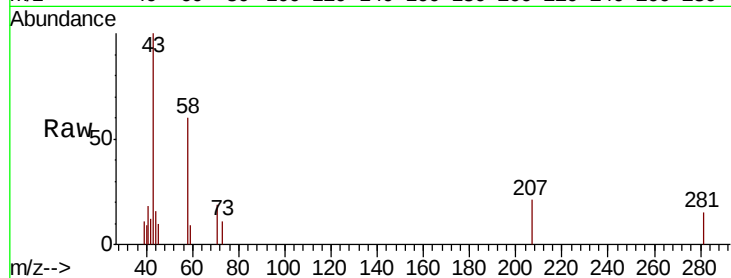
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

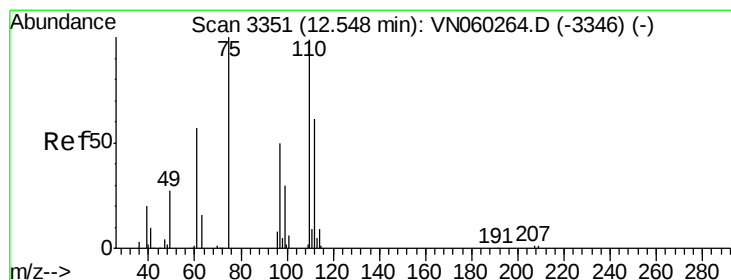
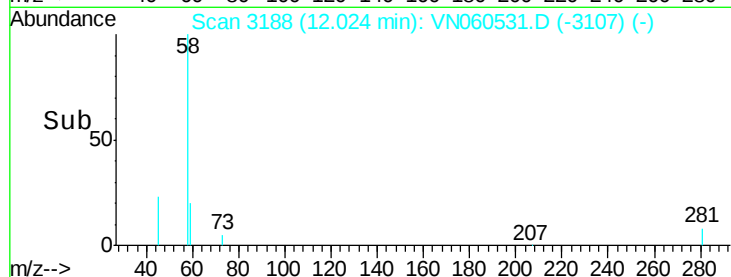
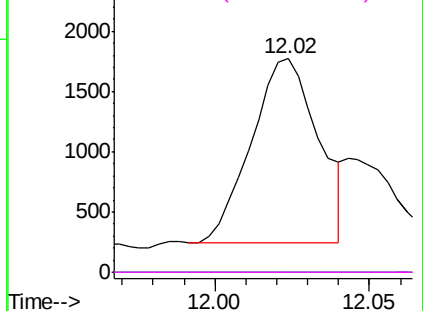


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.519 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060531.D

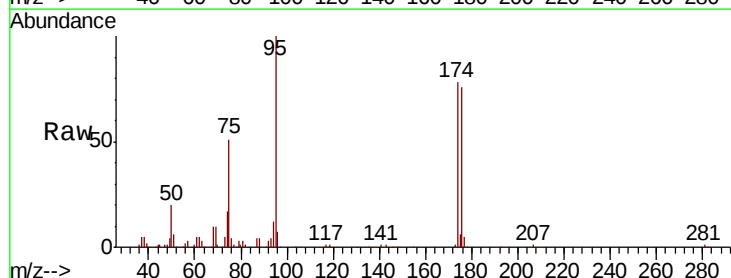
Acq: 16 Mar 2020 18:15

Tgt Ion: 75 Resp: 81366

Ion Ratio Lower Upper

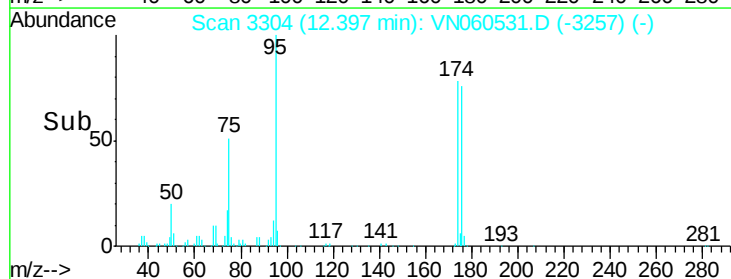
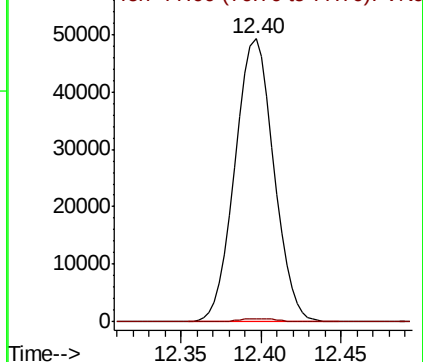
75 100

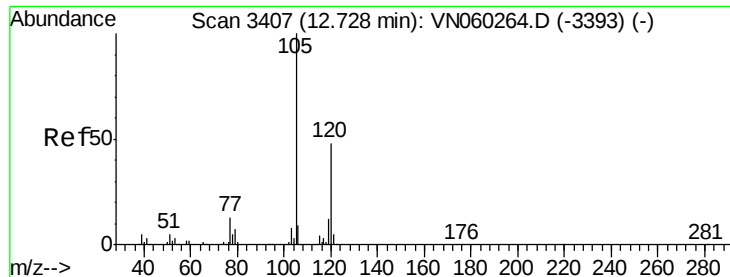
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.340 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

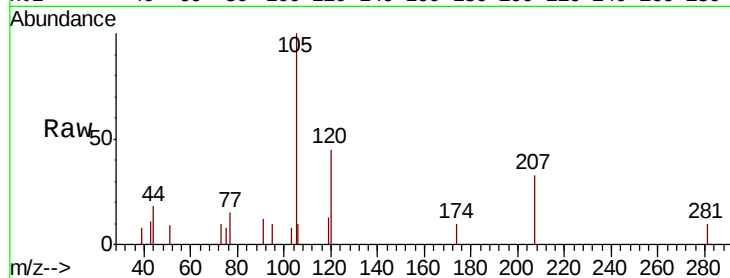
PB127541ZHE#04

Tot Ion:105 Resp: 3206

Ion Ratio Lower Upper

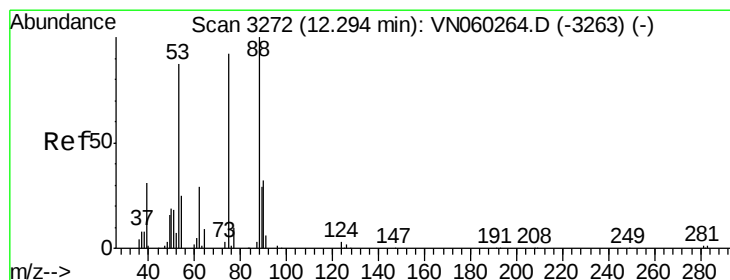
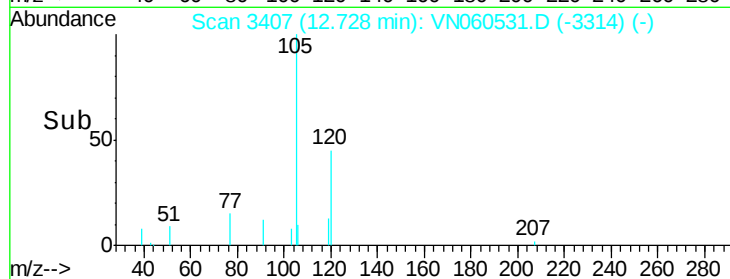
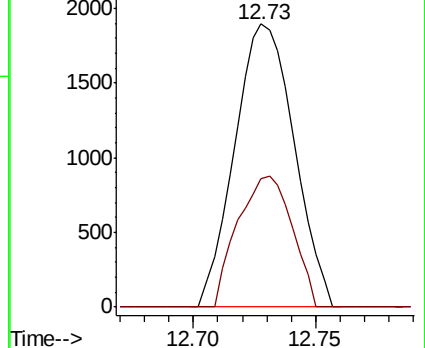
105 100

120 42.4 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: 67.685 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

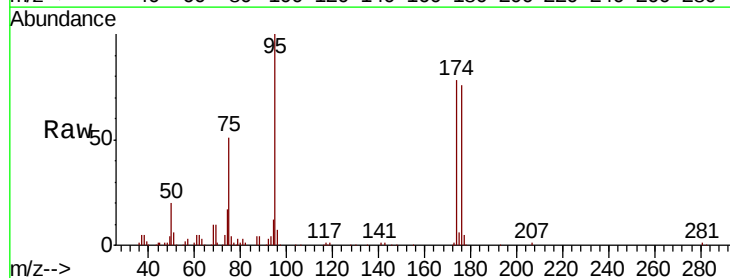
Tgt Ion: 75 Resp: 81366

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

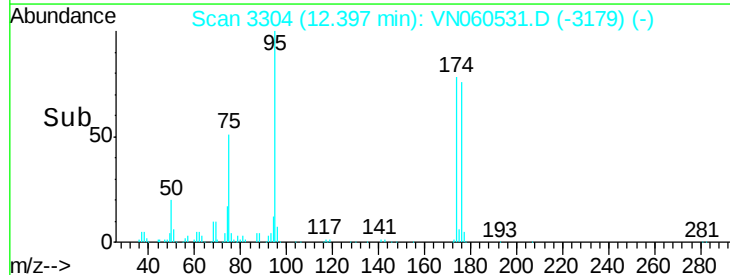
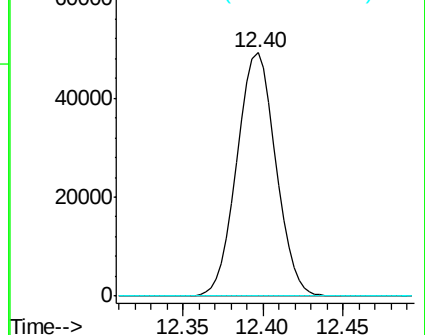
89 0.0 57.1 85.7#

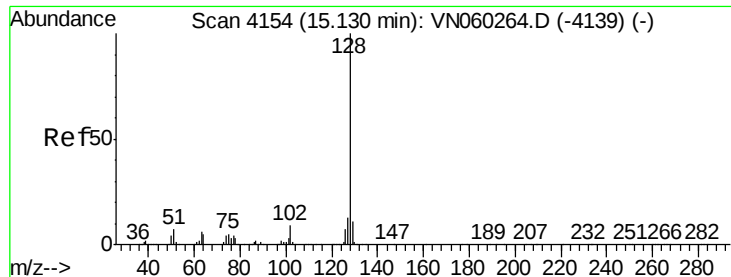


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.12 min Scan# 4152

Delta R.T. -0.01 min

Lab File: VN060531.D

Acq: 16 Mar 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#04

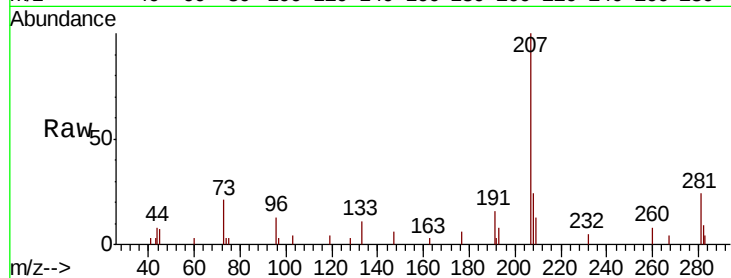
Tot Ion:128 Resp: 31

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

