

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073119\
 Data File : VN057005.D
 Acq On : 31 Jul 2019 11:34
 Operator : JC/SP
 Sample : PB121844ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#02

Quant Time: Aug 01 01:18:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	567331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	825093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	714164	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	204908	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	283616	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
35) Dibromofluoromethane	7.58	113	258677	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
50) Toluene-d8	10.08	98	984992	48.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.80%	
62) 4-Bromofluorobenzene	12.40	95	267069	40.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.46%	

Target Compounds

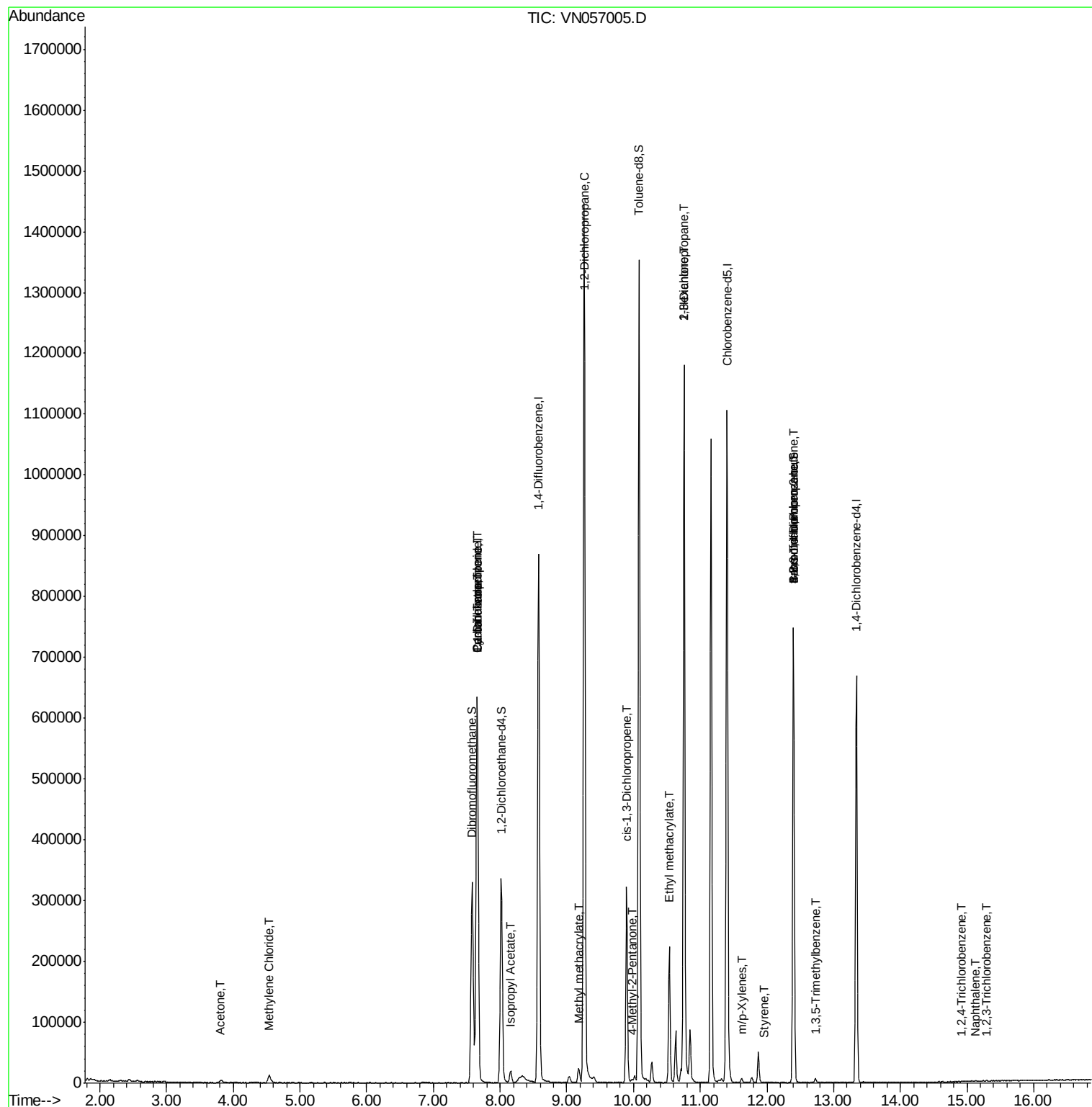
						Qvalue
16) Acetone	3.81	43	7439	3.536	ug/l #	87
20) Methylene Chloride	4.54	84	10258	1.693	ug/l	88
31) Cyclohexane	7.65	56	8503	0.891	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	34516	4.754	ug/l #	48
38) Carbon Tetrachloride	7.65	117	48747	7.098	ug/l #	17
43) Isopropyl Acetate	8.16	43	22012	2.290	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1910	0.319	ug/l #	44
48) Methyl methacrylate	9.18	41	8826	1.902	ug/l #	12
51) 4-Methyl-2-Pentanone	9.98	43	3450	0.604	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	60715	7.095	ug/l #	66
56) Ethyl methacrylate	10.54	69	1116	1.893	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13066	1.462	ug/l #	42
59) 2-Hexanone	10.76	43	166955	40.085	ug/l #	50
68) m/p-Xylenes	11.62	106	2240	0.241	ug/l	89
70) Styrene	11.96	104	161	1.877	ug/l #	26
71) Bromoform	12.40	173	2197	0.574	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	121731	29.253	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3883	0.267	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	121731	93.988	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	264	2.782	ug/l #	83
95) Naphthalene	15.12	128	589	3.651	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.29	180	447	2.169	ug/l #	80

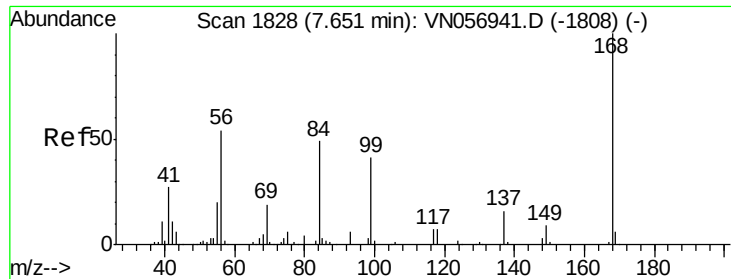
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

ClientSampleId :

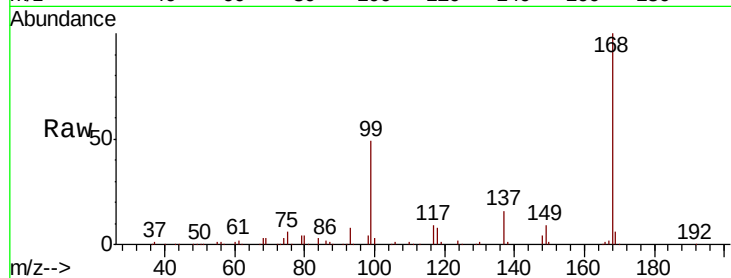
PB121844ZHE#02

Tot Ion:168 Resp: 567331

Ion Ratio Lower Upper

168 100

99 48.8 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VN056941.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-1808) (-)

7.66

250000

200000

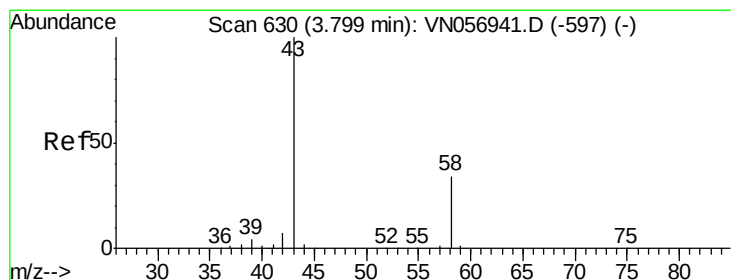
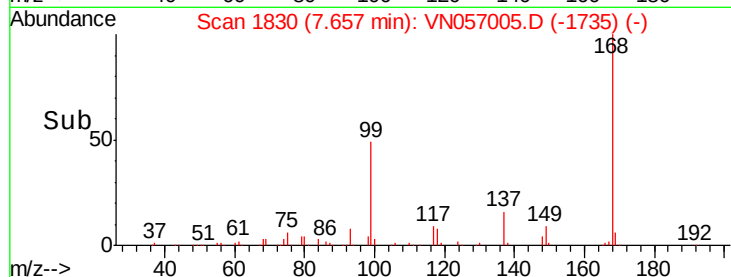
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 3.536 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN057005.D

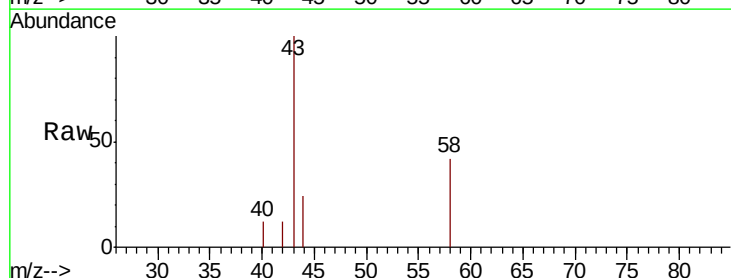
Acq: 31 Jul 2019 11:34

Tgt Ion: 43 Resp: 7439

Ion Ratio Lower Upper

43 100

58 41.5 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-597) (-)

3.81

3000

2500

2000

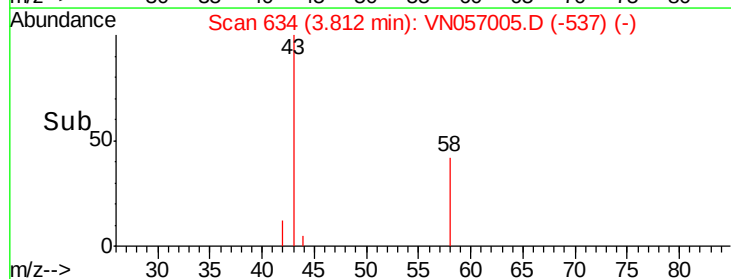
1500

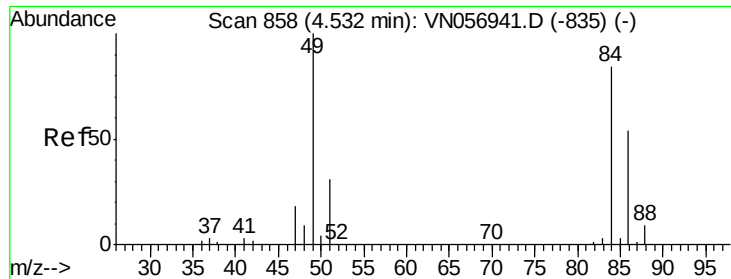
1000

500

0

Time-->

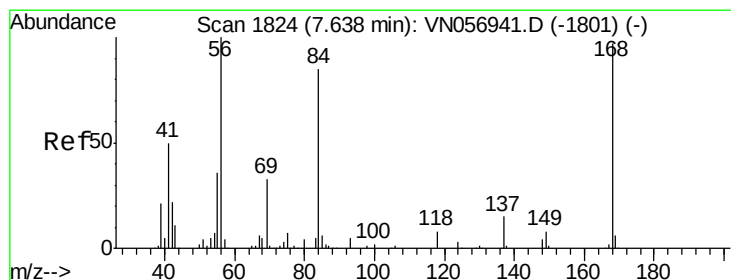
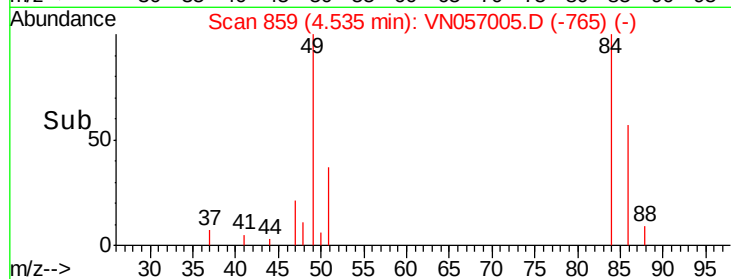
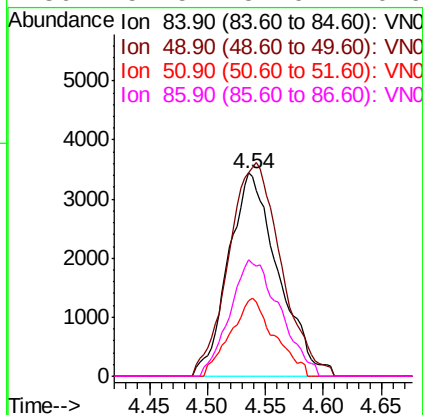
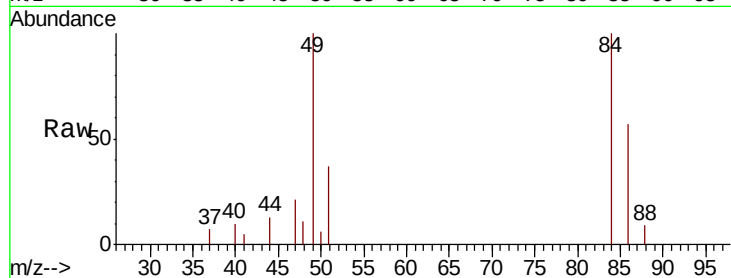




#20
Methvlene Chloride
Concen: 1.693 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

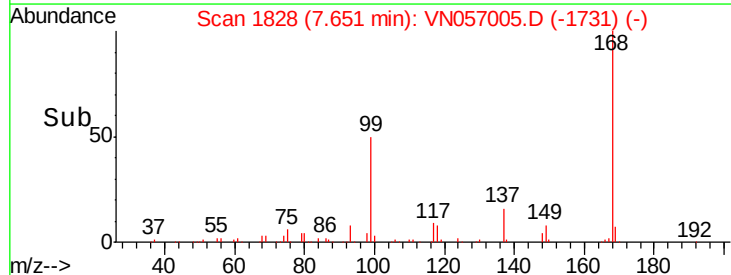
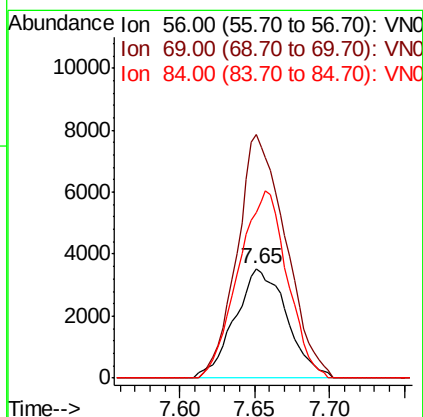
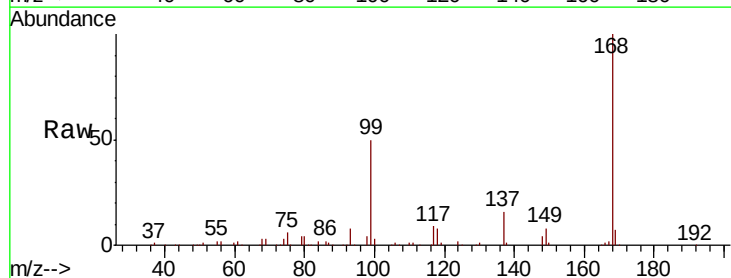
Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#02

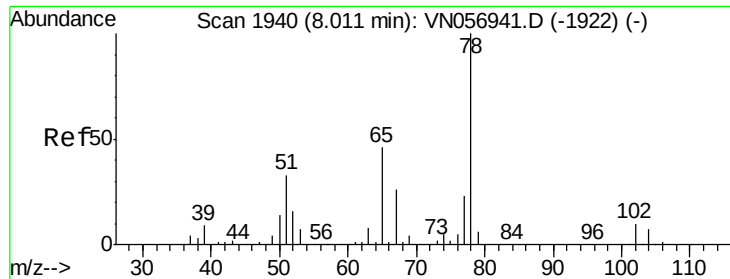
Tot Ion: 84 Resp: 10258
Ion Ratio Lower Upper
84 100
49 100.0 95.2 142.8
51 37.3 29.7 44.5
86 57.5 51.0 76.6



#31
Cyclohexane
Concen: 0.891 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

Tgt Ion: 56 Resp: 8503
Ion Ratio Lower Upper
56 100
69 221.8 26.2 39.2#
84 151.1 68.2 102.2#

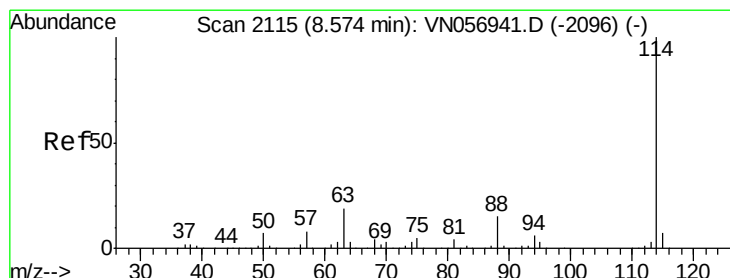
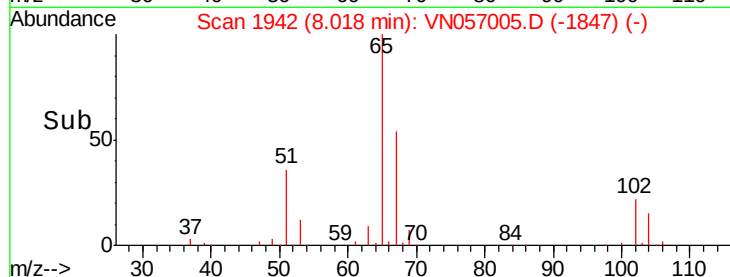
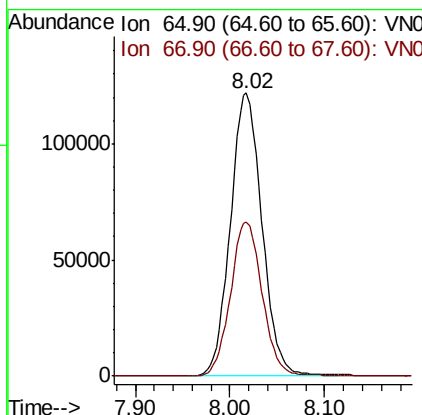
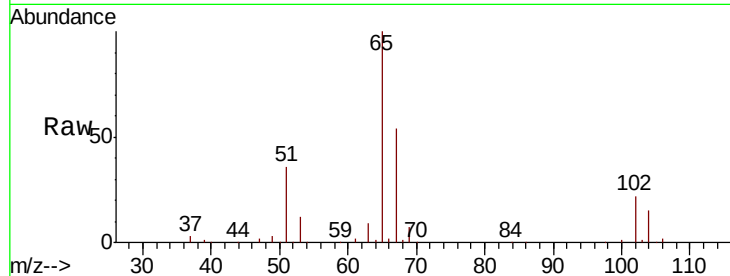




#33
 1,2-Dichloroethane-d4
 Concen: 48.837 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

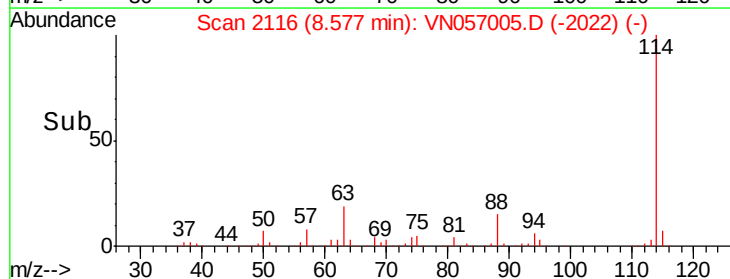
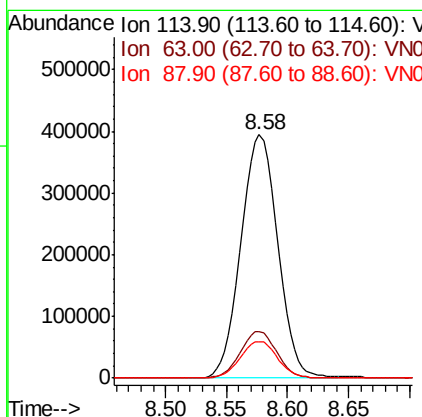
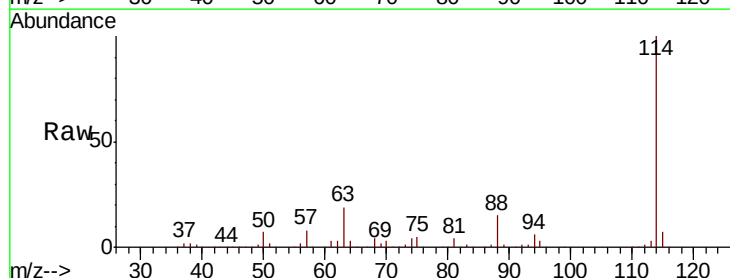
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#02

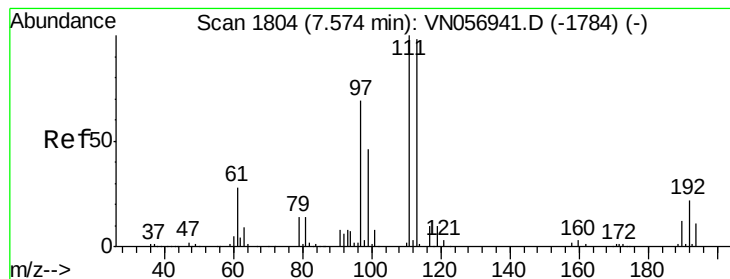
Tot Ion: 65 Resp: 283616
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

Tgt Ion: 114 Resp: 825093
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.0
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.974 ug/l

RT: 7.58 min Scan# 1806

Delta R.T. 0.01 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#02

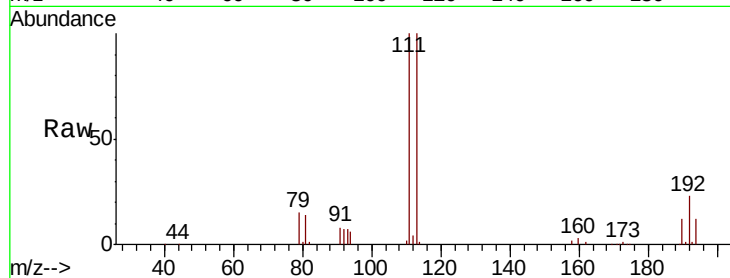
Tot Ion:113 Resp: 258677

Ion Ratio Lower Upper

113 100

111 101.1 82.0 123.0

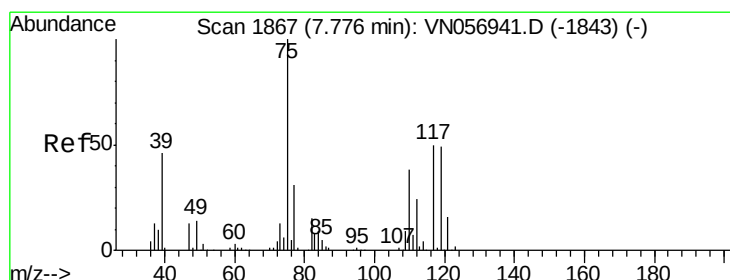
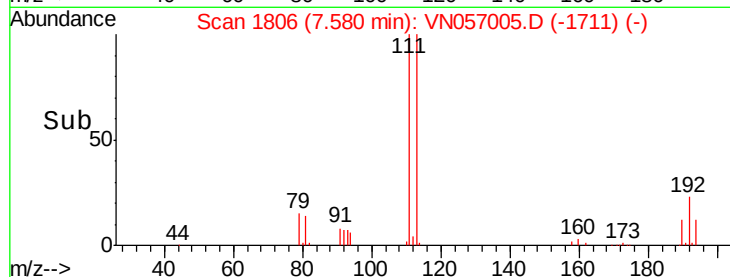
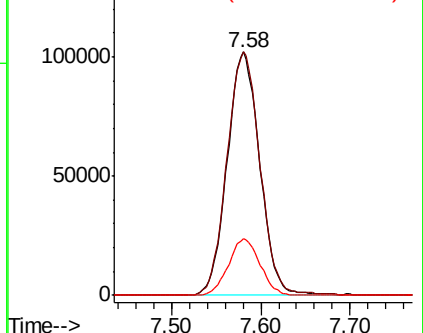
192 22.6 18.4 27.6



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: 4.754 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

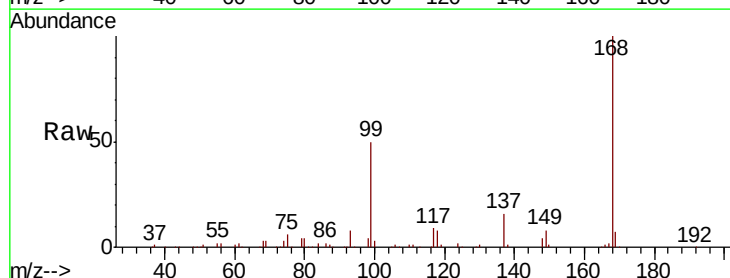
Tgt Ion: 75 Resp: 34516

Ion Ratio Lower Upper

75 100

110 9.1 18.6 55.8#

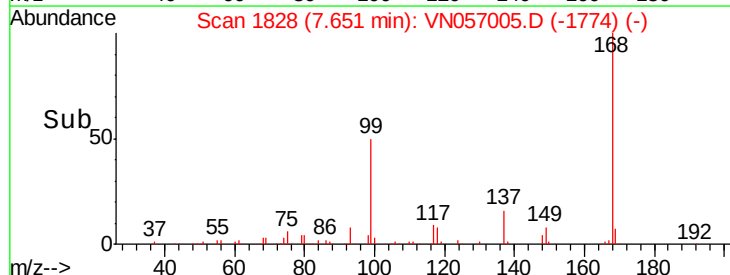
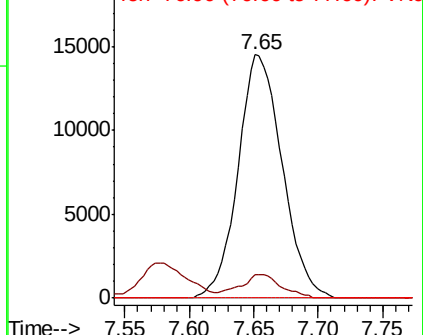
77 0.0 25.2 37.8#

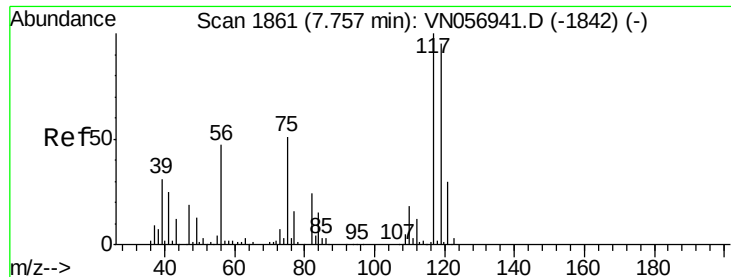


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 7.098 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

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PB121844ZHE#02

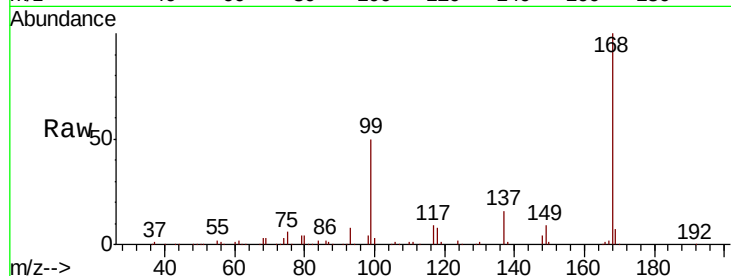
Tot Ion:117 Resp: 48747

Ion Ratio Lower Upper

117 100

119 6.0 75.3 112.9#

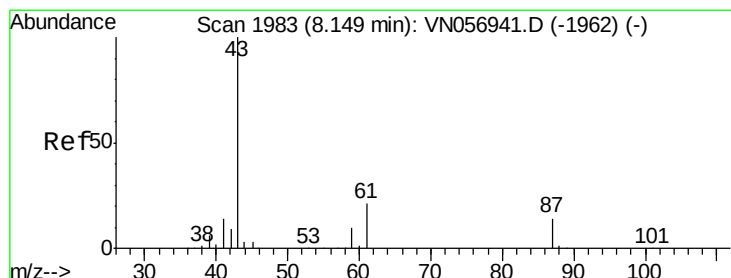
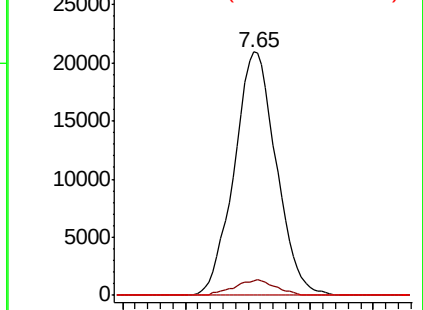
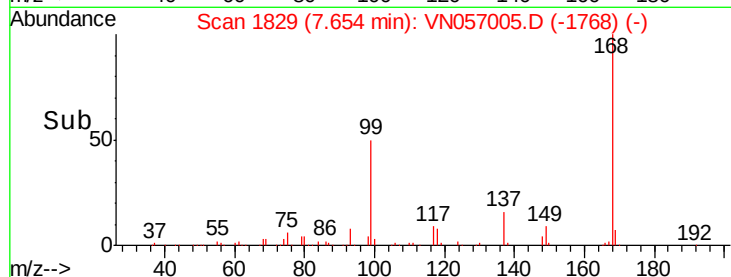
121 0.0 24.2 36.4#



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: 2.290 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

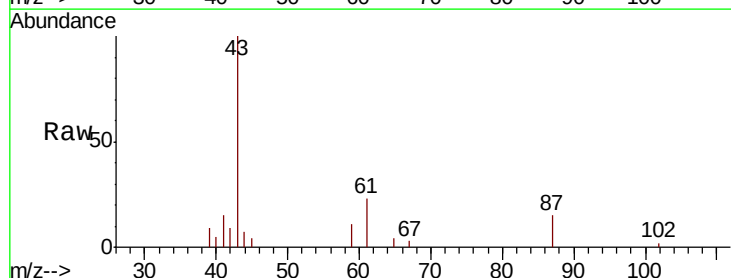
Tgt Ion: 43 Resp: 22012

Ion Ratio Lower Upper

43 100

61 20.6 23.0 34.6#

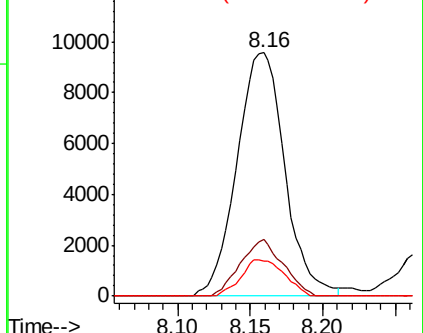
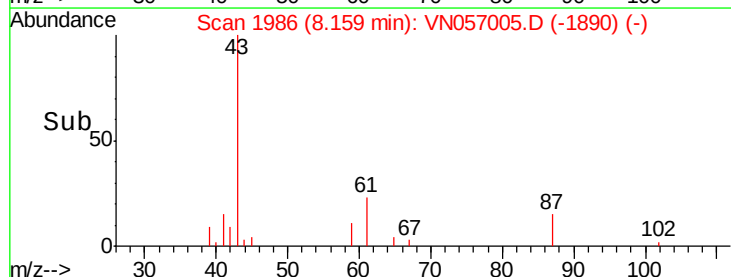
87 13.5 11.7 17.5

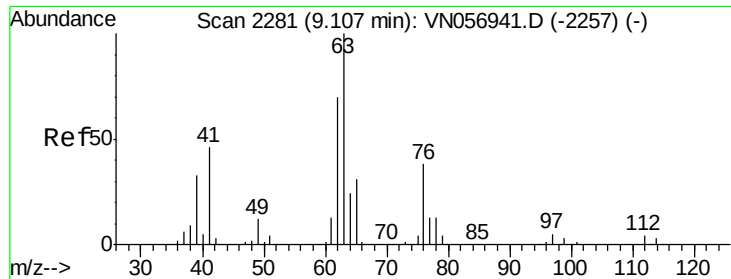


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

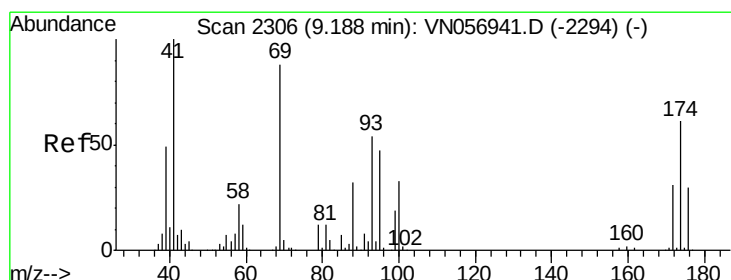
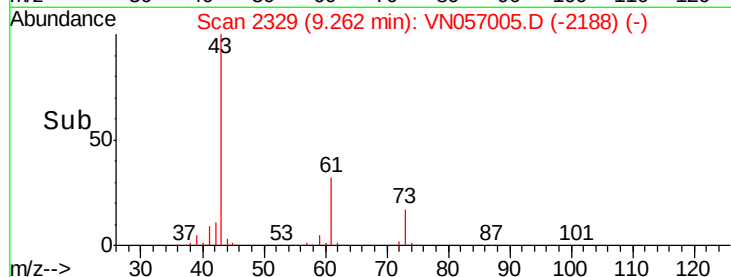
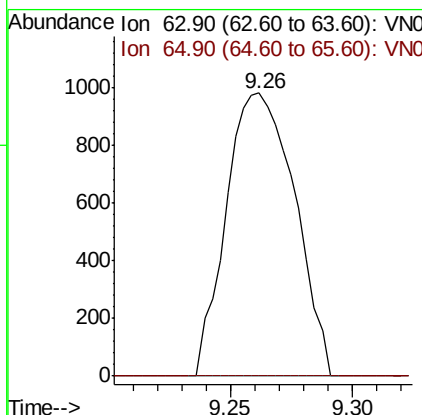
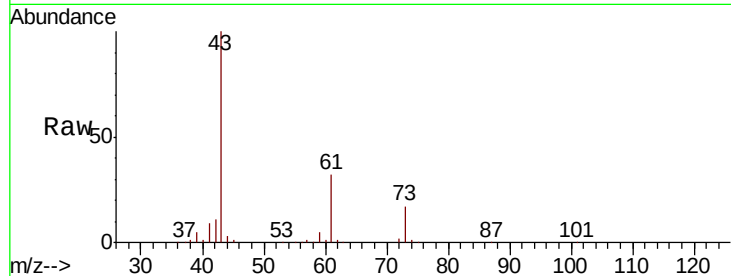




#45
 1,2-Dichloropropane
 Concen: 0.319 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

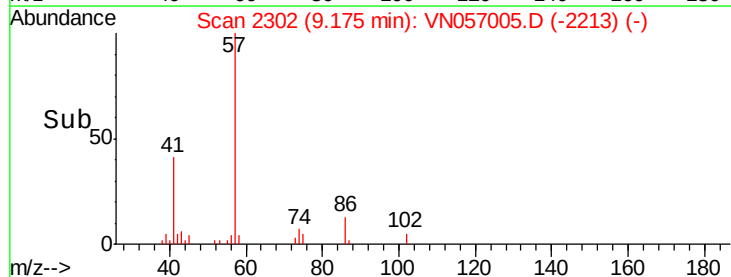
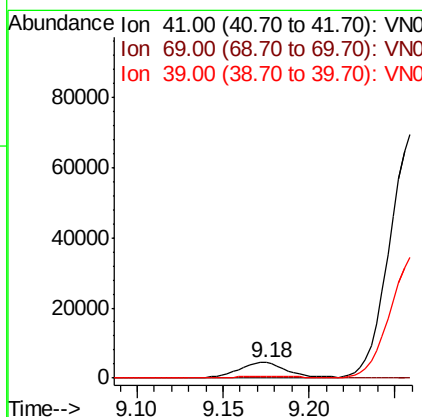
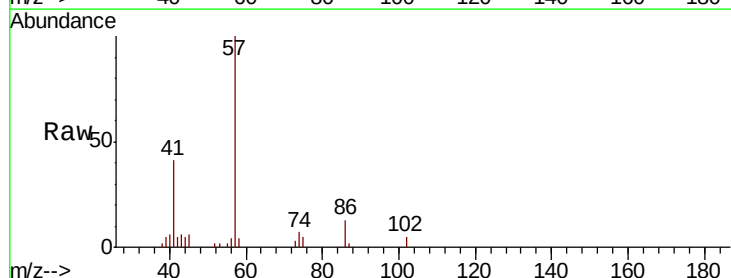
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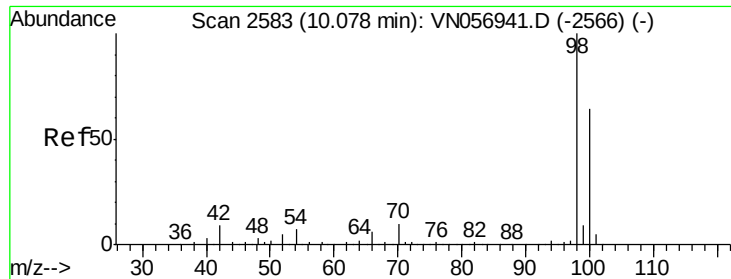
Tot Ion: 63 Resp: 1910
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.902 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.01 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

Tgt Ion: 41 Resp: 8826
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.4 110.0#
 39 0.0 39.9 59.9#

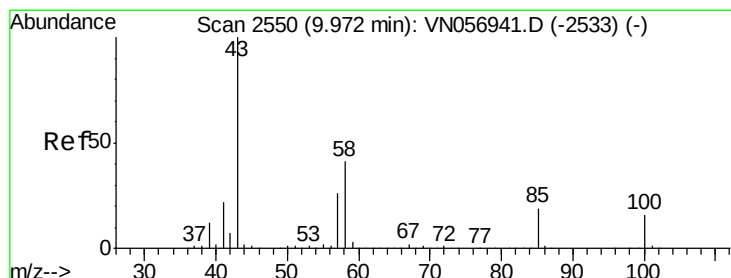
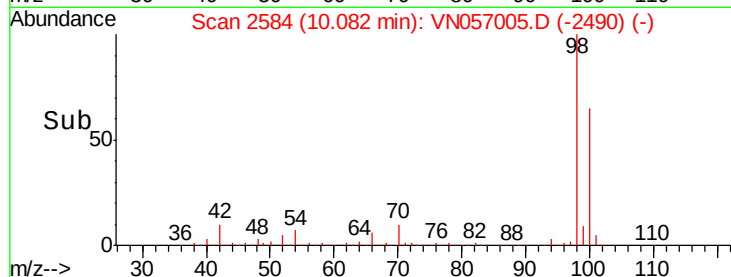
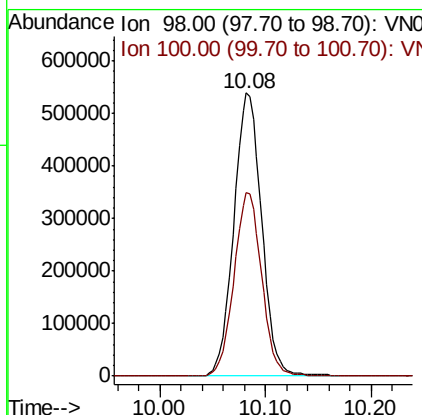
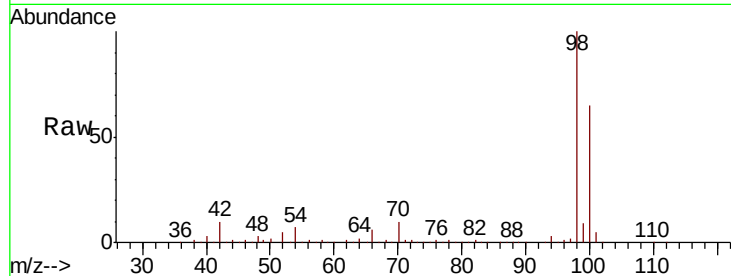




#50
Toluene-d8
Concen: 48.901 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

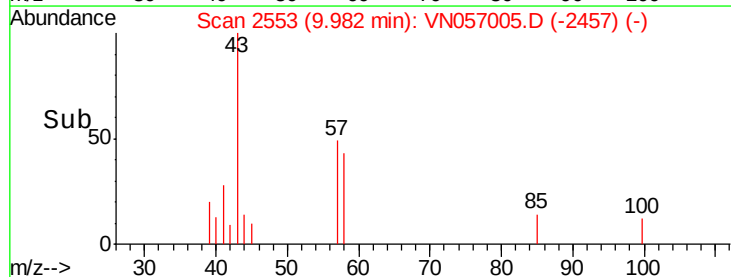
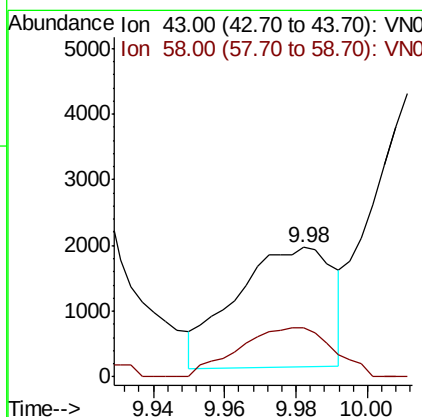
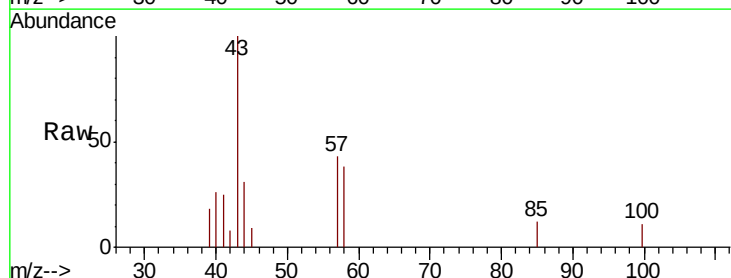
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MSVOA_N
ClientSampleId :
PB121844ZHE#02

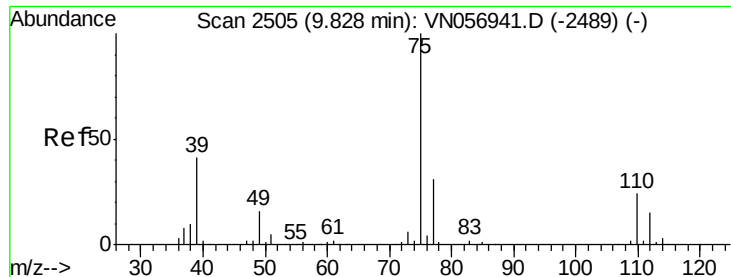
Tot Ion: 98 Resp: 984992
Ion Ratio Lower Upper
98 100
100 64.7 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.604 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

Tgt Ion: 43 Resp: 3450
Ion Ratio Lower Upper
43 100
58 39.7 33.1 49.7



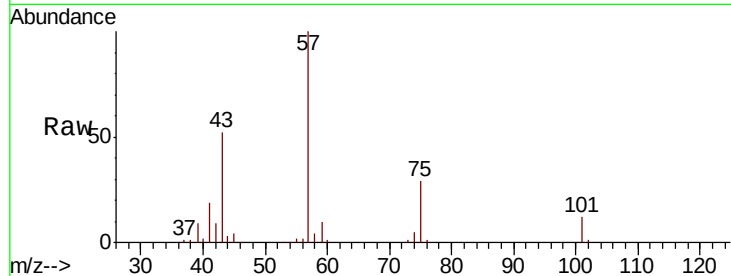


#54

cis-1,3-Dichloropropene
 Concen: 7.095 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#02

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	30.4	32.6	49.0#

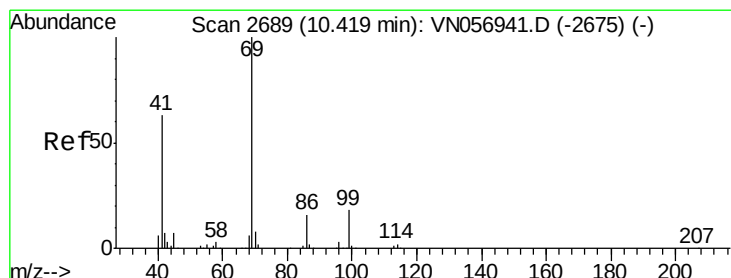
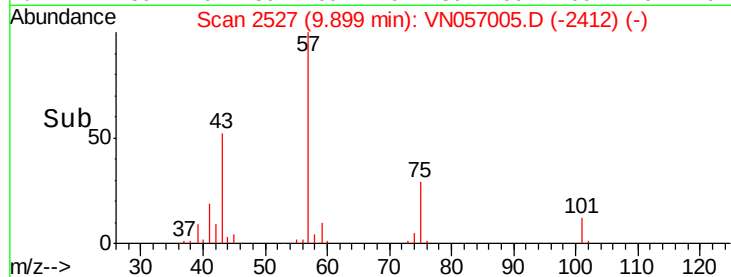
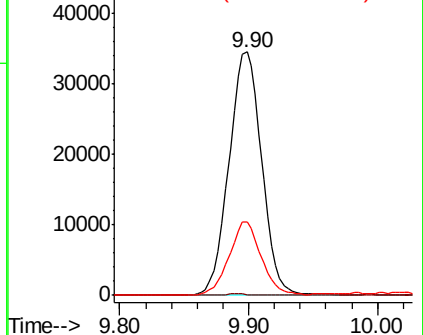


Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

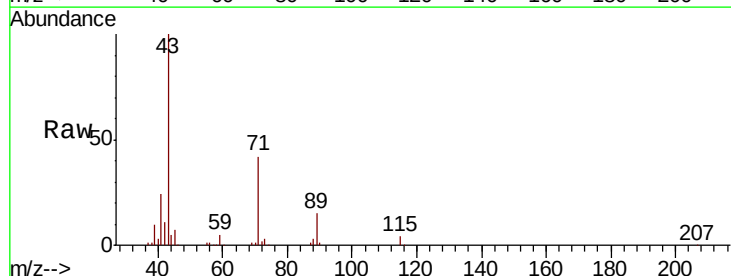
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate
 Concen: 1.893 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.12 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3557.0	49.2	73.8#
39	1502.9	23.1	34.7#

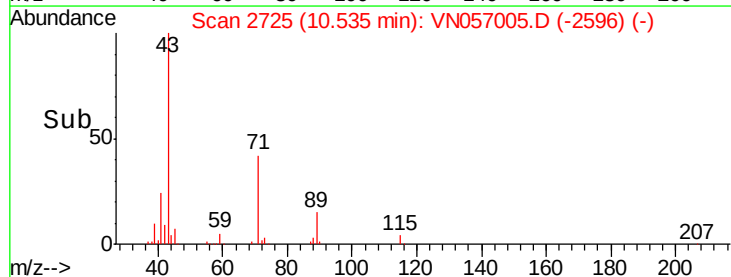
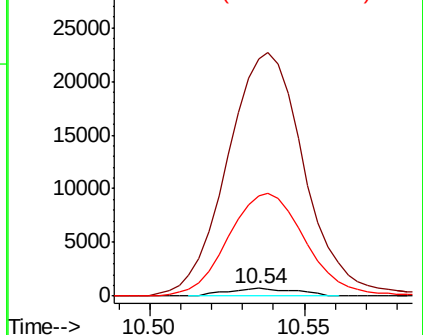


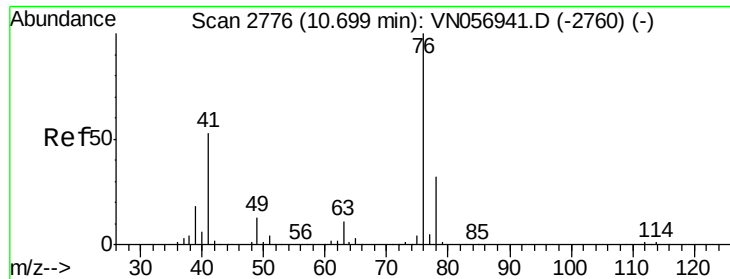
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

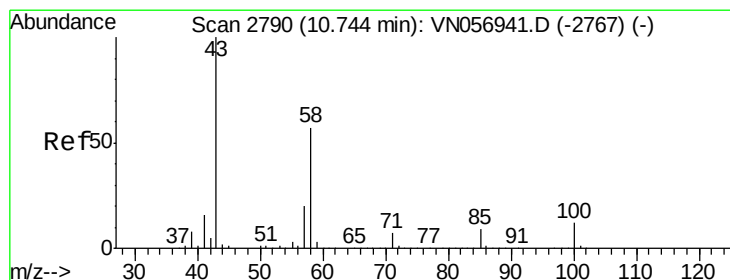
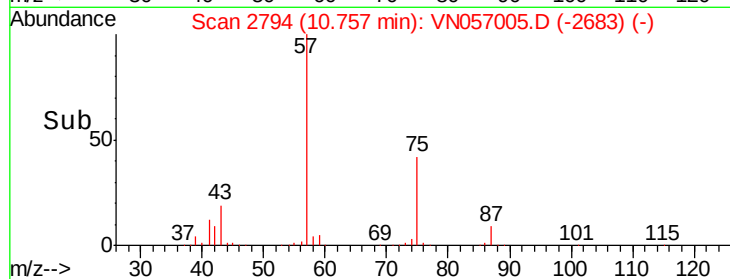
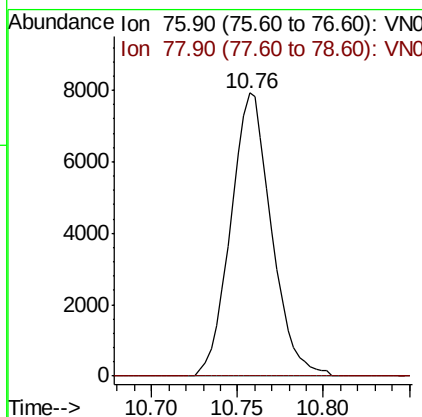
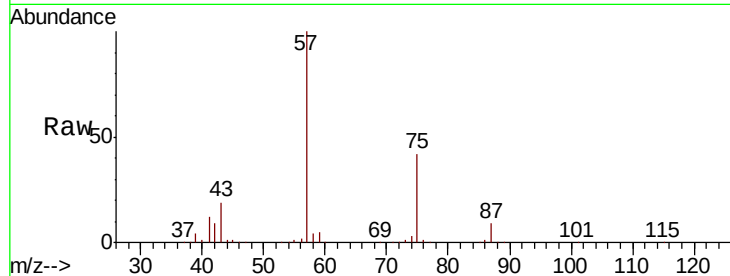




#57
 1,3-Dichloropropane
 Concen: 1.462 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

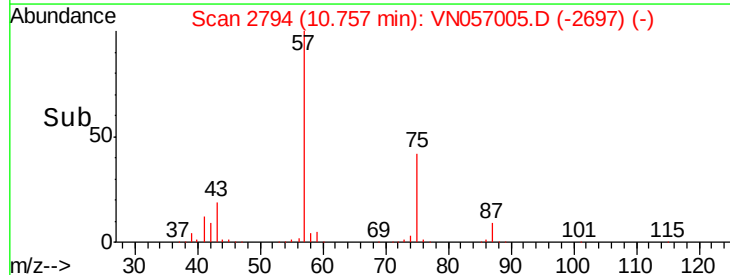
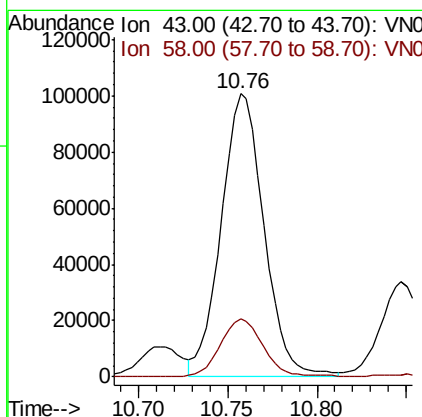
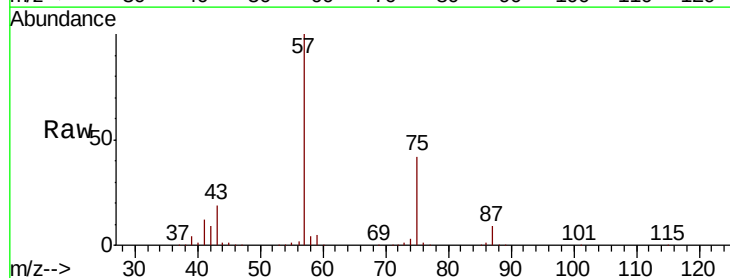
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#02

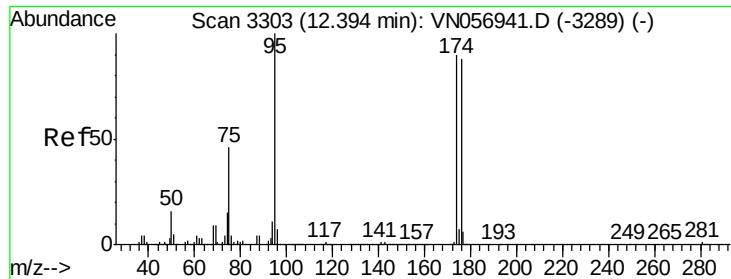
Tot Ion: 76 Resp: 13066
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 40.085 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: VN057005.D
 Acq: 31 Jul 2019 11:34

Tgt Ion: 43 Resp: 166955
 Ion Ratio Lower Upper
 43 100
 58 20.5 28.5 85.5#

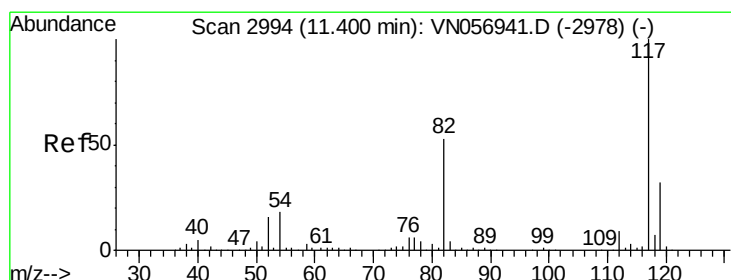
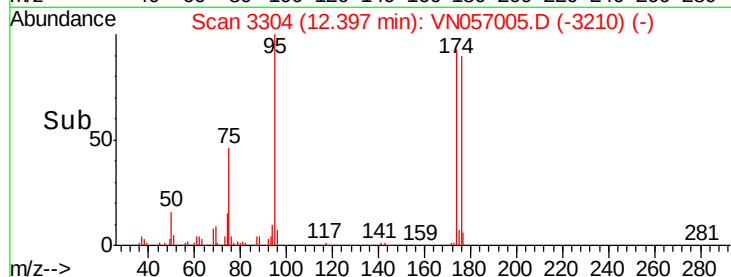
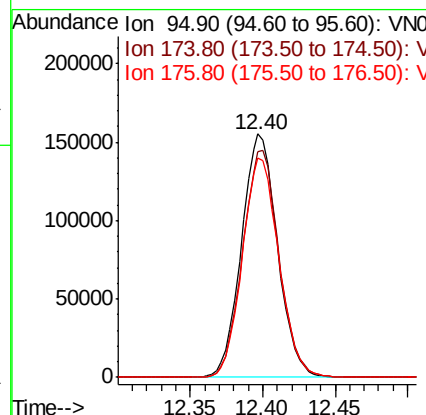
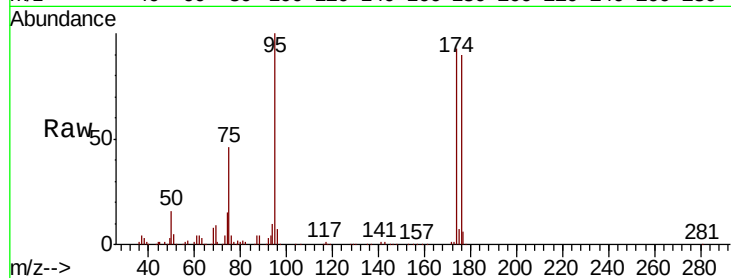




#62
4-Bromofluorobenzene
Concen: 40.728 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

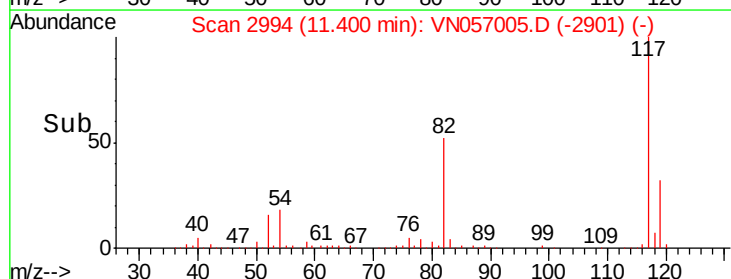
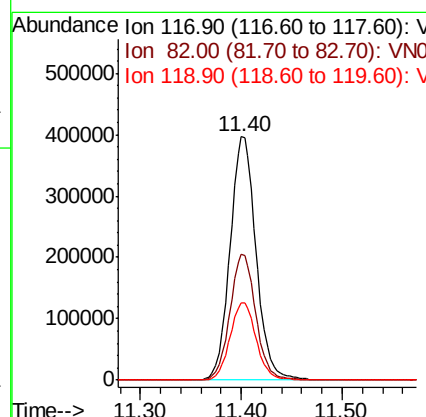
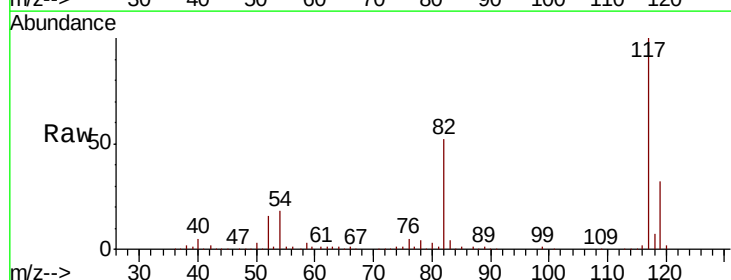
Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#02

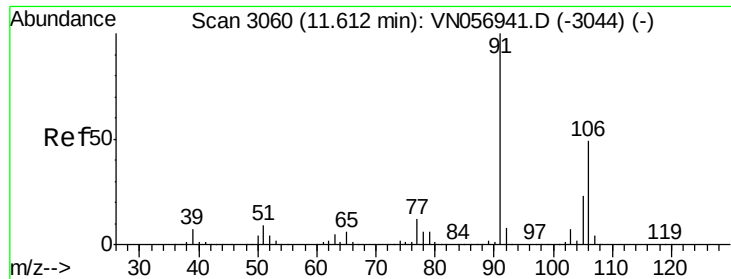
Tot Ion: 95 Resp: 267069
Ion Ratio Lower Upper
95 100
174 94.5 0.0 182.2
176 91.6 0.0 179.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

Tgt Ion: 117 Resp: 714164
Ion Ratio Lower Upper
117 100
82 51.9 42.2 63.4
119 31.7 25.8 38.6

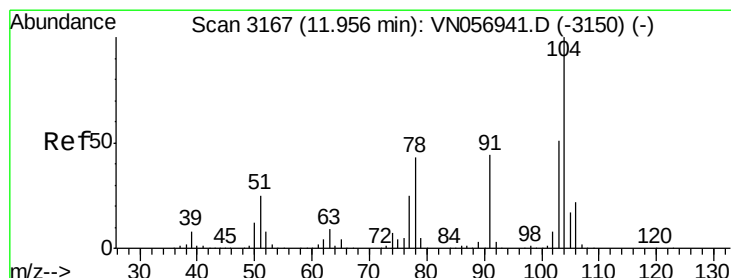
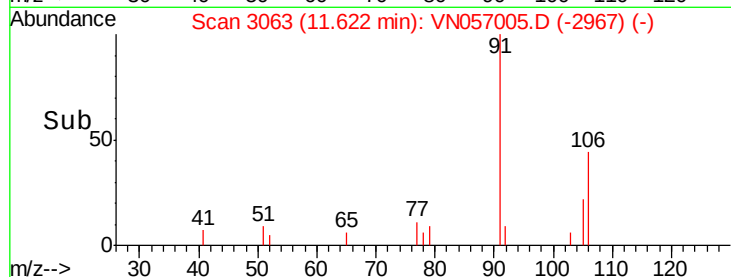
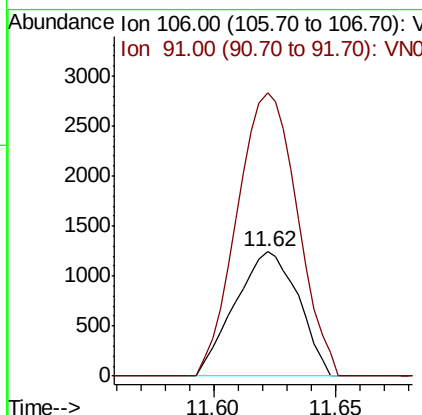
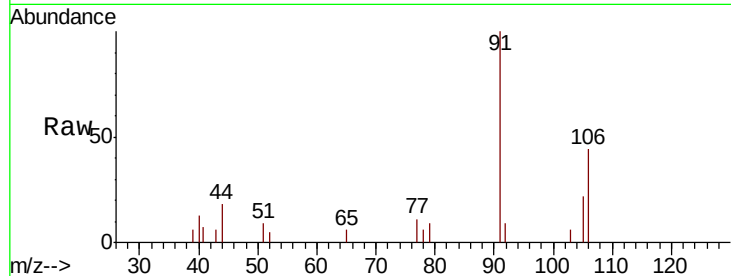




#68
m/p-Xylenes
Concen: 0.241 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.01 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

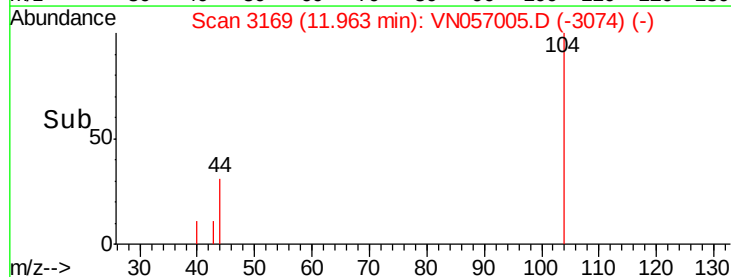
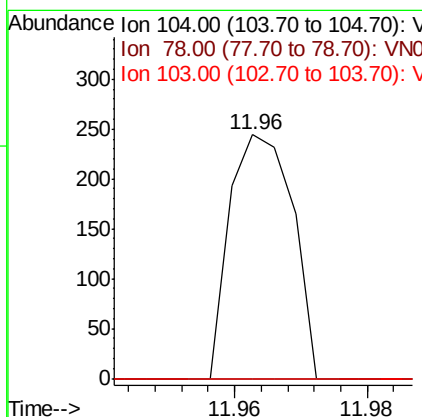
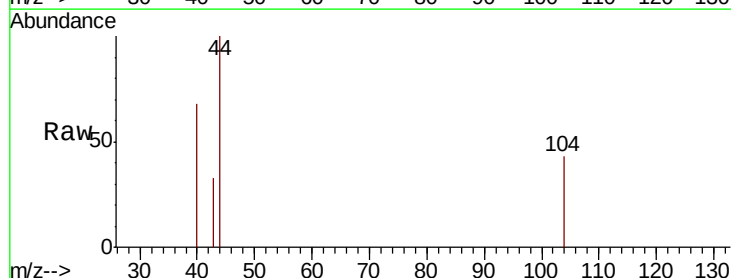
Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#02

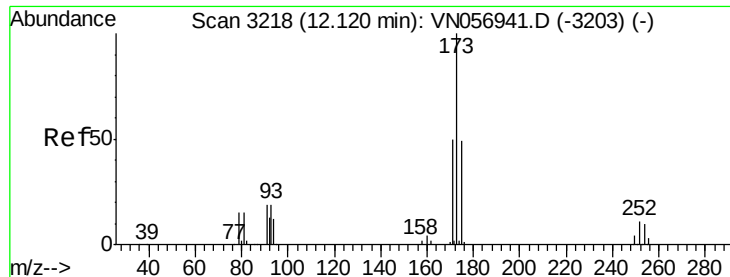
Tot Ion:106 Resp: 2240
Ion Ratio Lower Upper
106 100
91 216.7 160.0 240.0



#70
Styrene
Concen: 1.877 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VN057005.D
Acq: 31 Jul 2019 11:34

Tgt Ion:104 Resp: 161
Ion Ratio Lower Upper
104 100
78 0.0 38.1 57.1#
103 0.0 44.3 66.5#





#71

Bromoform

Concen: 0.574 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#02

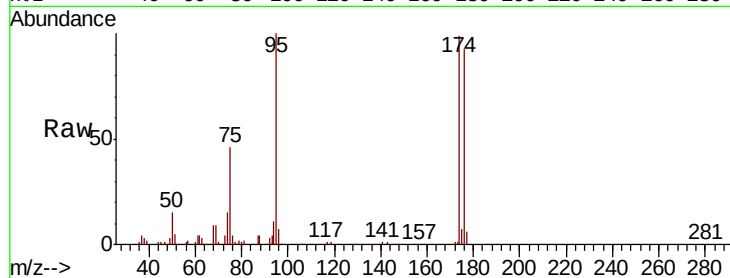
Tot Ion:173 Resp: 2197

Ion Ratio Lower Upper

173 100

175 659.0 24.1 72.4#

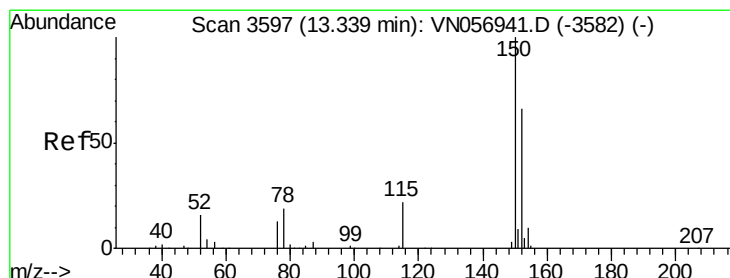
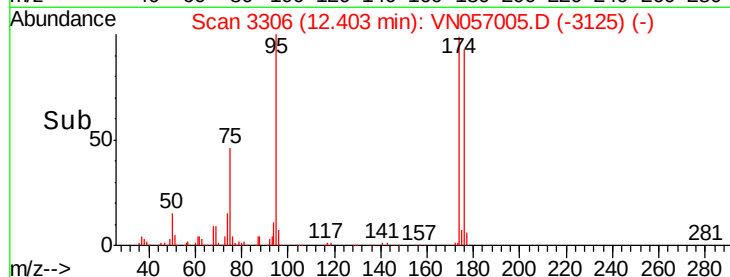
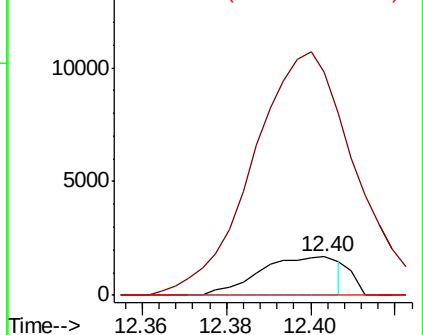
254 0.0 0.1 0.1#



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# 3598

Delta R.T. 0.00 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

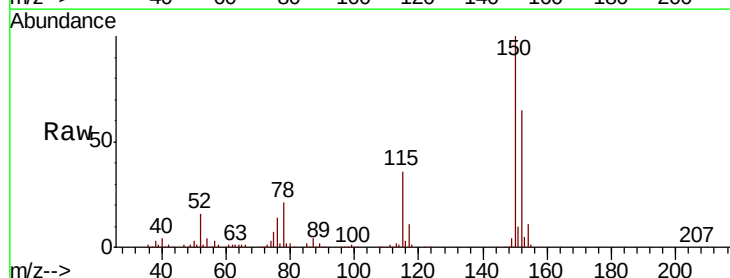
Tgt Ion:152 Resp: 204908

Ion Ratio Lower Upper

152 100

115 54.5 28.2 84.6

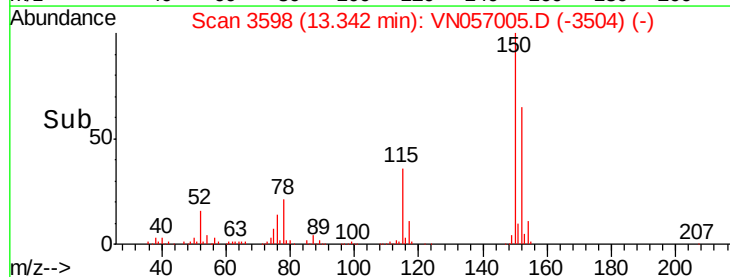
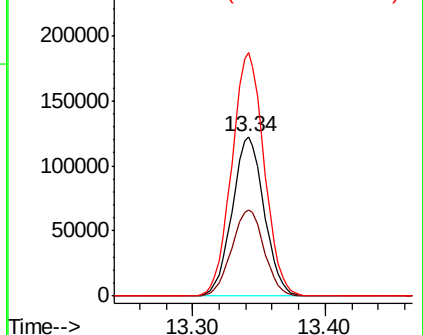
150 154.4 0.0 349.4

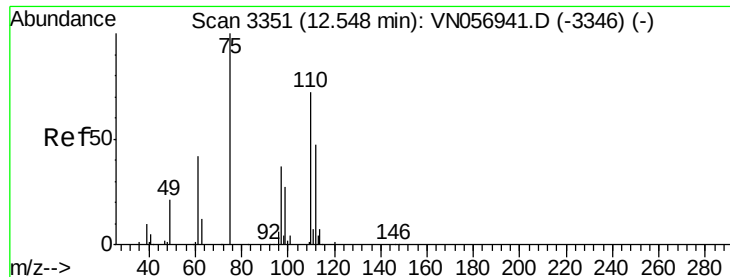


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.253 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

ClientSampleId :

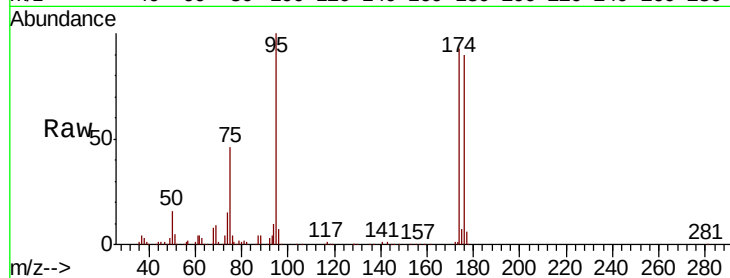
PB121844ZHE#02

Tot Ion: 75 Resp: 121731

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN056941.D (-3346) (-)

12.40

80000

60000

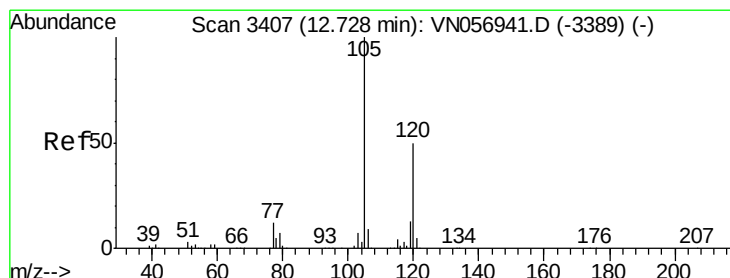
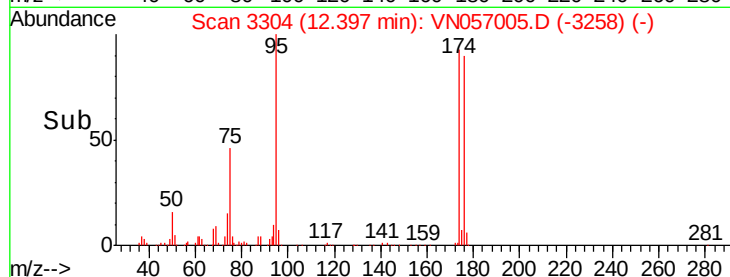
40000

20000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN057005.D

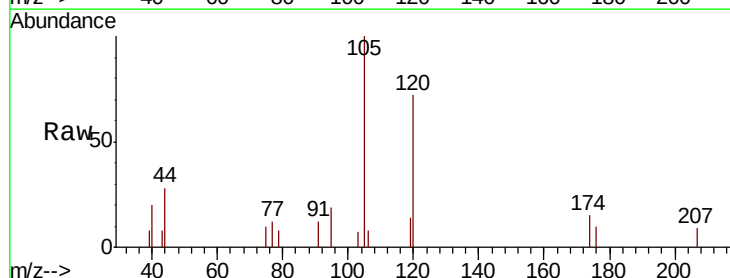
Acq: 31 Jul 2019 11:34

Tgt Ion: 105 Resp: 3883

Ion Ratio Lower Upper

105 100

120 54.1 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056941.D (-3389) (-)

Ion 120.00 (119.70 to 120.70): VN056941.D (-3389) (-)

12.73

2500

2000

1500

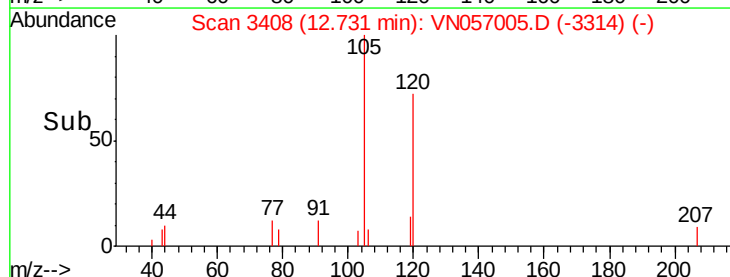
1000

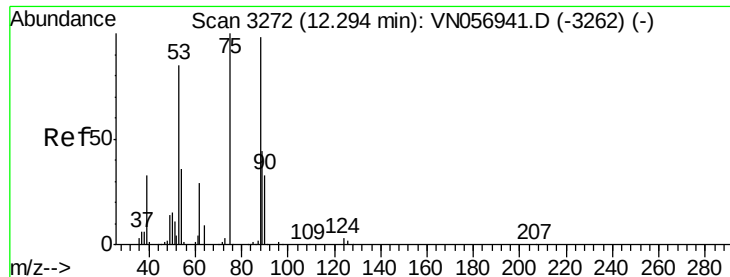
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 93.988 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#02

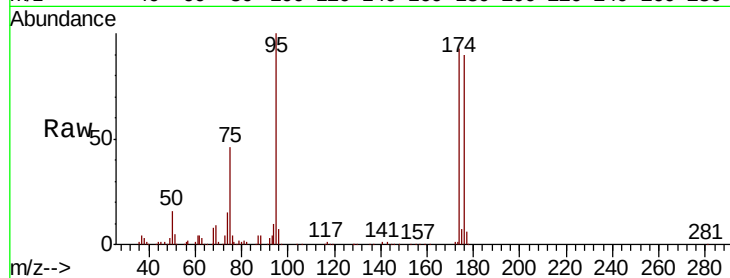
Tot Ion: 75 Resp: 121731

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

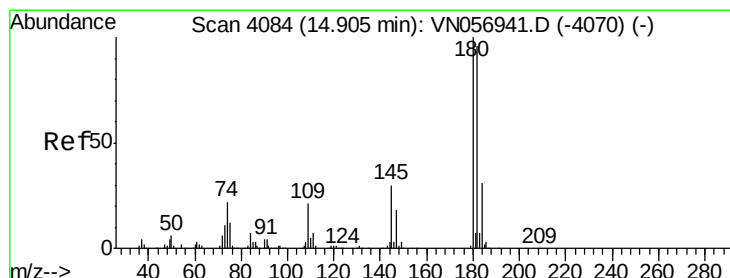
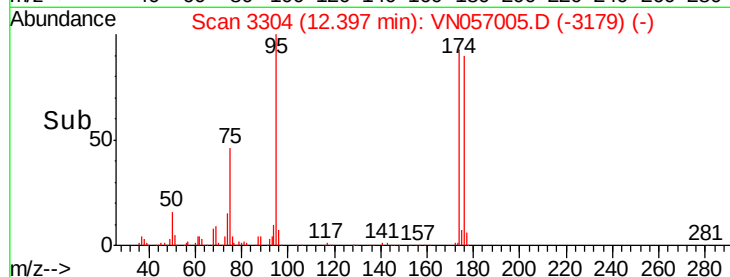
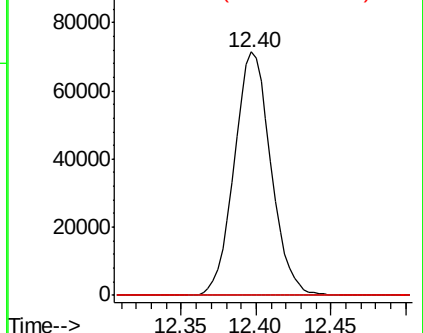
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN056941.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN056941.D (-3262) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.782 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

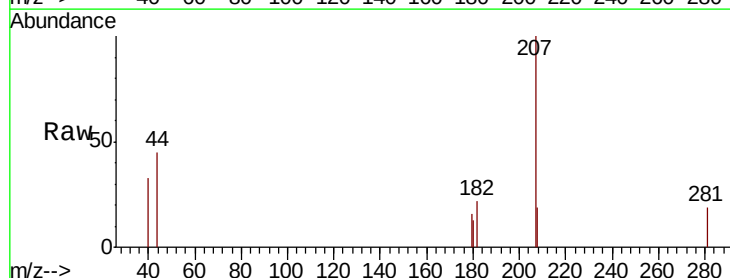
Tgt Ion: 180 Resp: 264

Ion Ratio Lower Upper

180 100

182 89.4 47.6 142.8

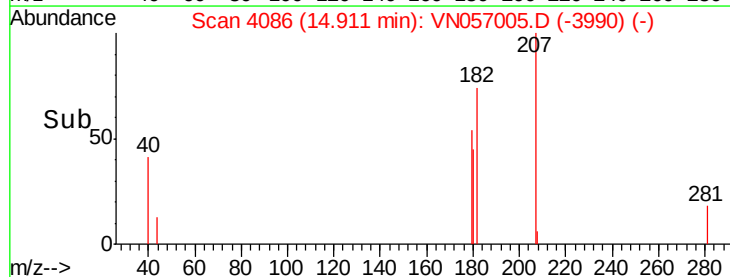
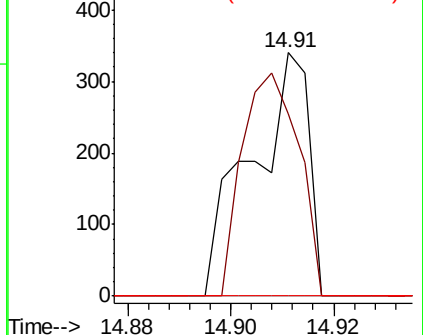
145 0.0 14.2 42.8#

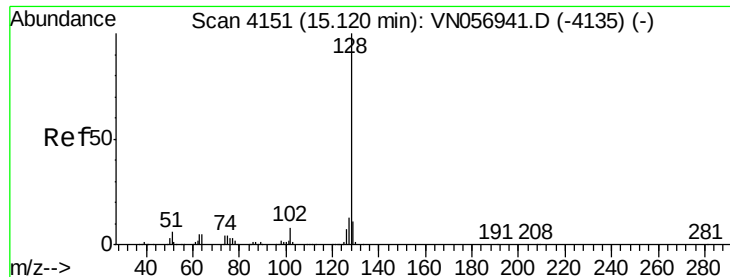


Abundance Ion 179.80 (179.50 to 180.50): VN056941.D (-4070) (-)

Ion 181.80 (181.50 to 182.50): VN056941.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN056941.D (-4070) (-)





#95

Naphthalene

Concen: 3.651 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. 0.00 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#02

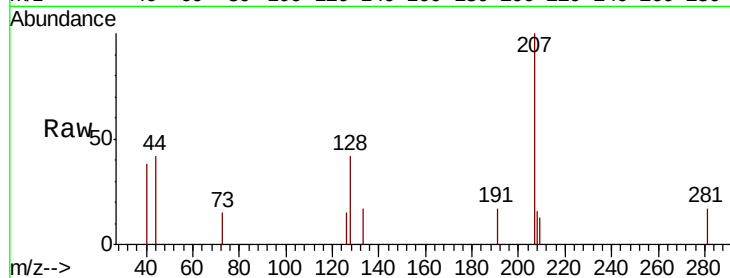
Tot Ion:128 Resp: 589

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



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

15.12

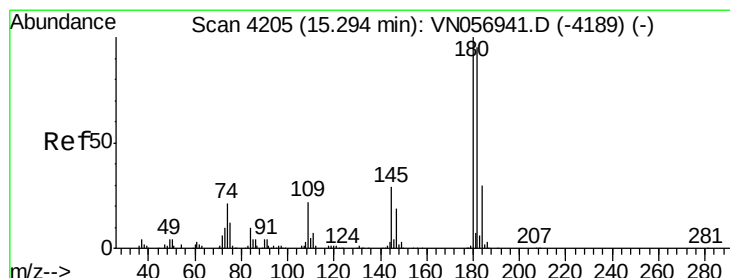
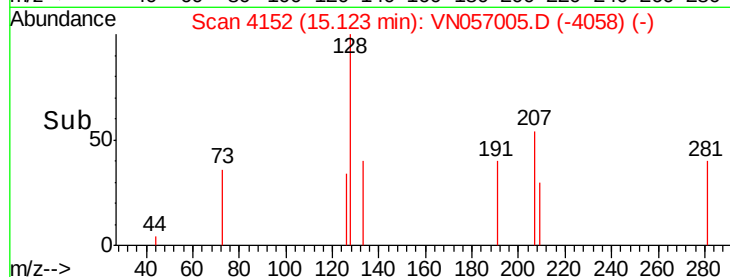
400

200

0

15.10 15.12 15.14

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.169 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN057005.D

Acq: 31 Jul 2019 11:34

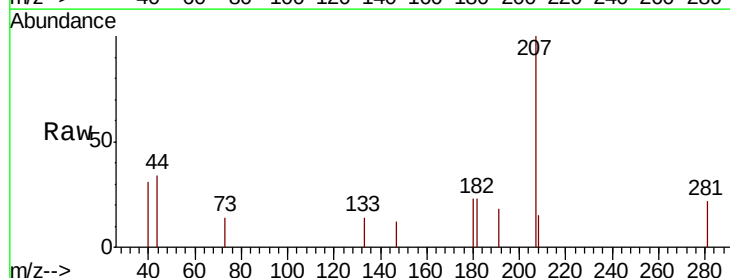
Tgt Ion:180 Resp: 447

Ion Ratio Lower Upper

180 100

182 87.7 48.0 144.2

145 0.0 15.0 45.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.29

400

300

200

100

0

15.26 15.28 15.30 15.32

Time-->

