

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062518\
 Data File : VN049535.D
 Acq On : 26 Jun 2018 2:37
 Operator : MD\SY
 Sample : PB110537ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#12

Quant Time: Jun 26 03:33:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1193217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1817328	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1505227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	375995	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	780723	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
35) Dibromofluoromethane	7.59	113	692890	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	
50) Toluene-d8	10.09	98	2522798	45.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	596379	32.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.44%	

Target Compounds

						Qvalue
3) Chloromethane	2.06	50	3770	0.21	ug/l	91
5) Bromomethane	2.57	94	7863	0.79	ug/l	97
10) Methyl Iodide	3.96	142	4814	0.31	ug/l #	84
13) Acrolein	3.61	56	558	0.57	ug/l	87
16) Acetone	3.82	43	53936	14.04	ug/l	96
17) Carbon Disulfide	4.06	76	13235	0.31	ug/l	98
18) Methyl Acetate	4.34	43	76270	6.51	ug/l	92
20) Methylene Chloride	4.55	84	36659	2.28	ug/l	90
25) 2-Butanone	6.86	43	7247	1.40	ug/l	93
29) Tetrahydrofuran	7.21	42	1055	0.32	ug/l #	60
31) Cyclohexane	7.67	56	22890	0.80	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82701	3.97	ug/l #	51
38) Carbon Tetrachloride	7.67	117	106696	4.95	ug/l #	17
43) Isopropyl Acetate	8.25	43	62865	2.91	ug/l #	64
49) 1,4-Dioxane	9.20	88	600	4.27	ug/l #	65
51) 4-Methyl-2-Pentanone	9.99	43	7505	0.66	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.71	63	359	14.39	ug/l #	51
59) 2-Hexanone	10.76	43	4658	0.64	ug/l	100
65) Chlorobenzene	11.44	112	17260	0.45	ug/l	91
74) N-amyl acetate	12.05	43	2018	0.25	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.51	83	1228	Below	Cal #	87
76) 1,2,3-Trichloropropane	12.40	75	289258	45.09	ug/l #	100
77) Bromobenzene	12.53	156	2507	0.29	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	289258	142.50	ug/l #	9
82) 4-Chlorotoluene	12.78	91	5870	0.26	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	4730	0.33	ug/l	98
88) 1,4-Dichlorobenzene	13.29	146	4730	0.33	ug/l	99
89) n-Butylbenzene	13.62	91	6264	0.31	ug/l	96
90) Hexachloroethane	13.87	117	165	Below	Cal #	1
91) 1,2-Dichlorobenzene	13.66	146	5167	0.37	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	845	0.74	ug/l	63
93) 1,2,4-Trichlorobenzene	14.91	180	7698	5.82	ug/l	95
94) Hexachlorobutadiene	15.01	225	3565	Below	Cal	85
95) Naphthalene	15.14	128	16743	3.68	ug/l	97

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QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration

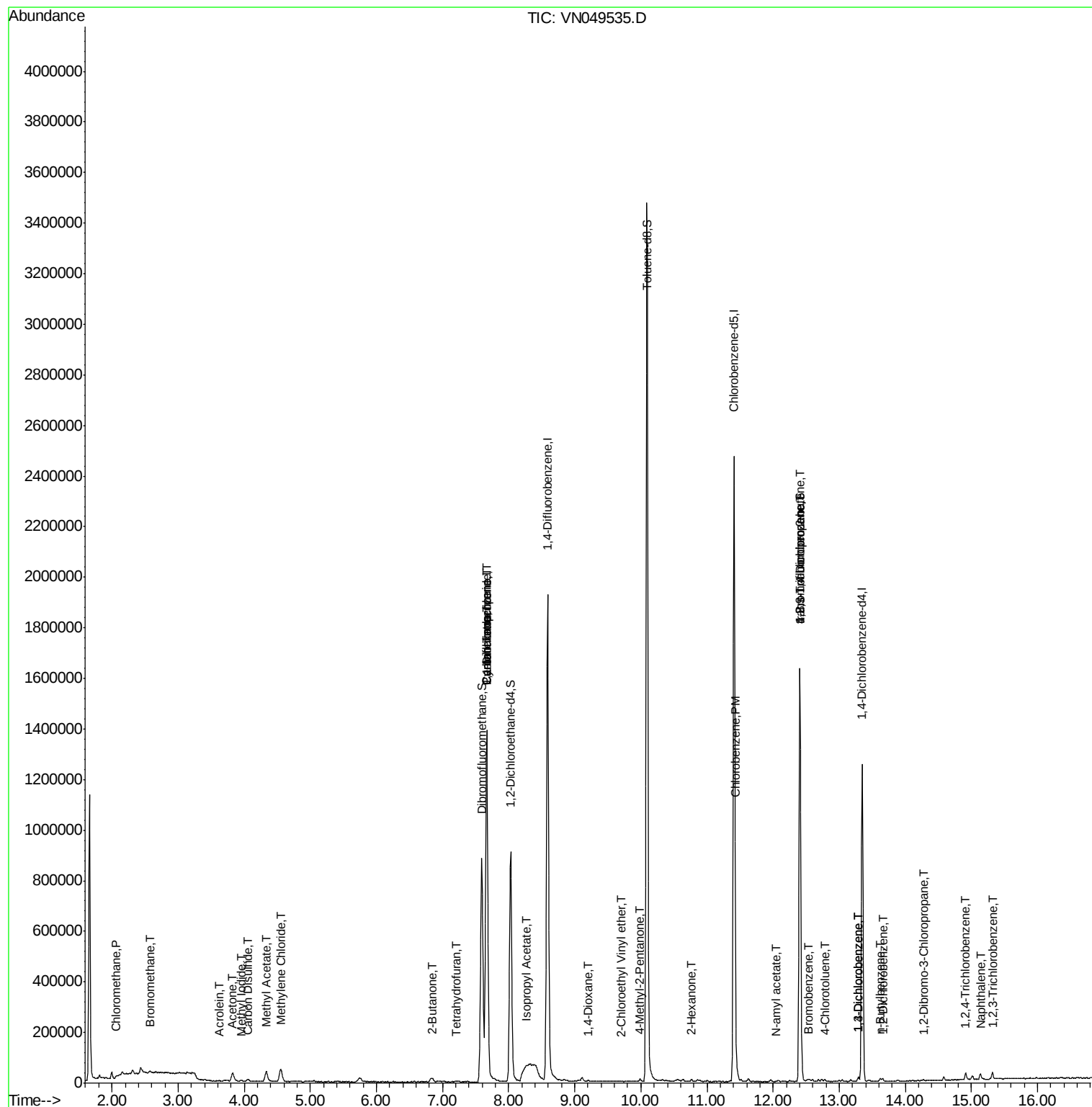
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	15.32	180	9517	4.86	ug/l	94

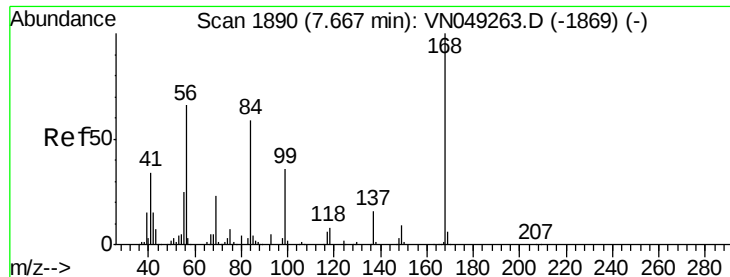
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

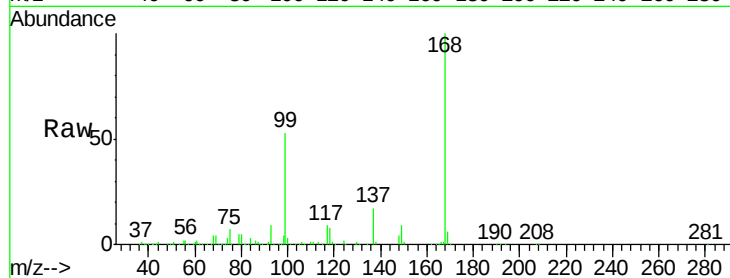
PB110537ZHE#12

Tot Ion:168 Resp: 1193217

Ion Ratio Lower Upper

168 100

99 53.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

300000

200000

100000

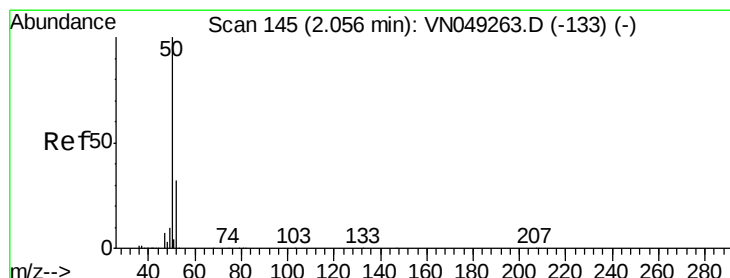
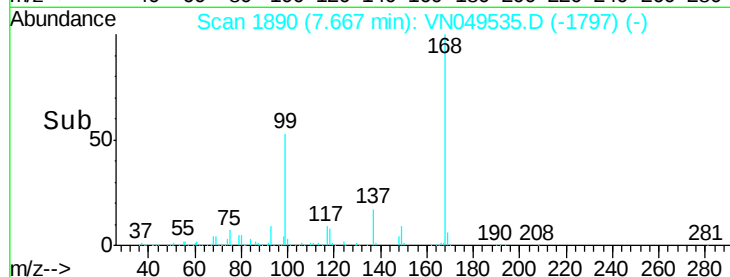
0

Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049535.D

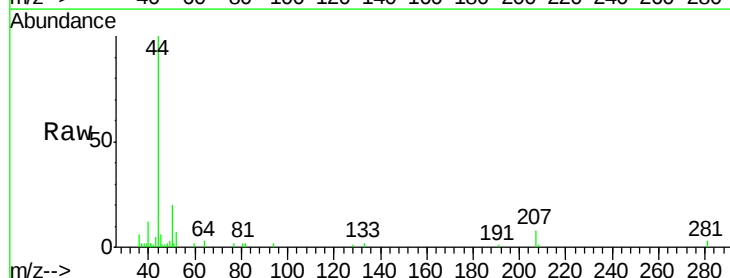
Acq: 26 Jun 2018 2:37

Tgt Ion: 50 Resp: 3770

Ion Ratio Lower Upper

50 100

52 36.4 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

3000

2500

2000

1500

1000

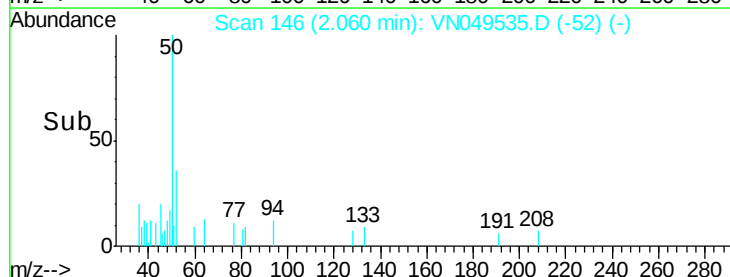
500

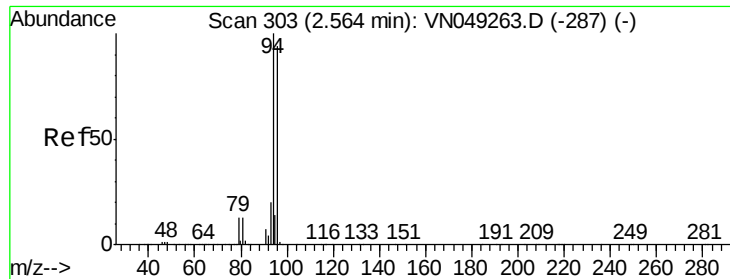
0

Time-->

2.05

2.10





#5

Bromomethane

Concen: 0.79 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

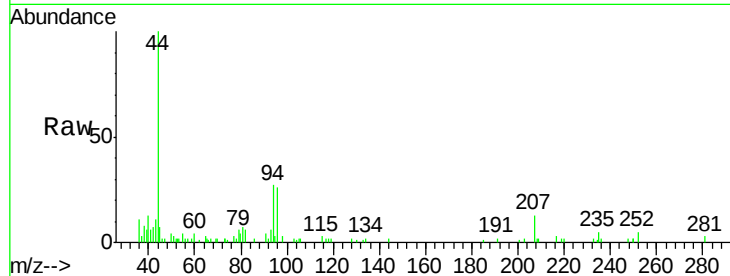
PB110537ZHE#12

Tot Ion: 94 Resp: 7863

Ion Ratio Lower Upper

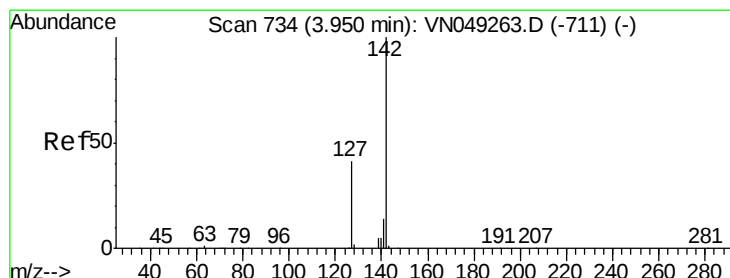
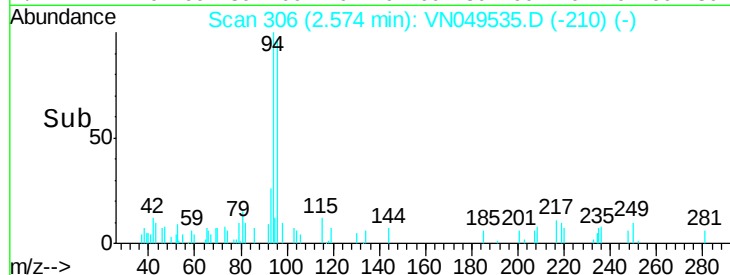
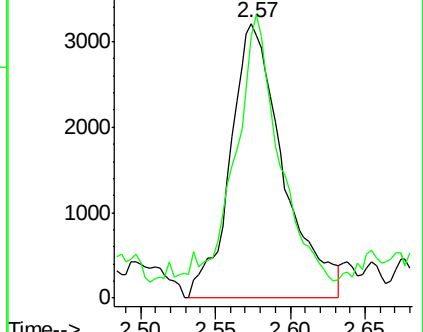
94 100

96 88.3 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN049263.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN049263.D (-287) (-)



#10

Methyl Iodide

Concen: 0.31 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

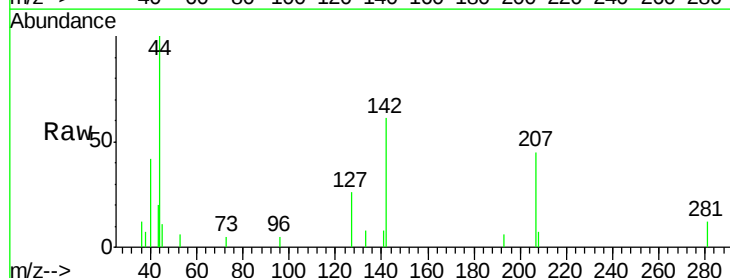
Tgt Ion: 142 Resp: 4814

Ion Ratio Lower Upper

142 100

127 38.0 38.2 57.4#

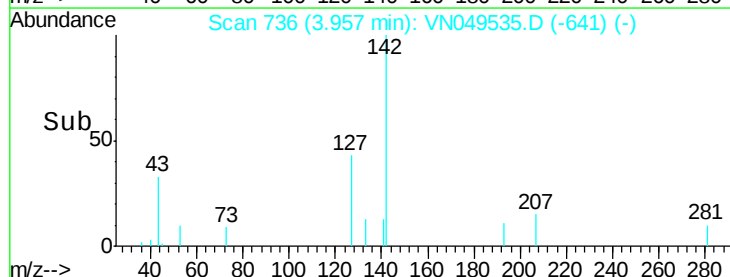
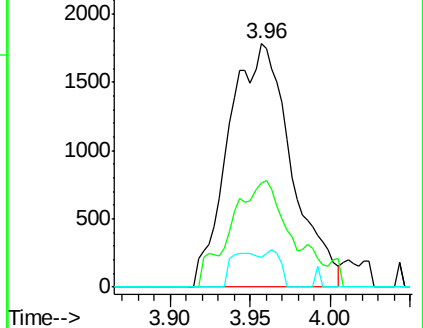
141 6.6 11.9 17.9#

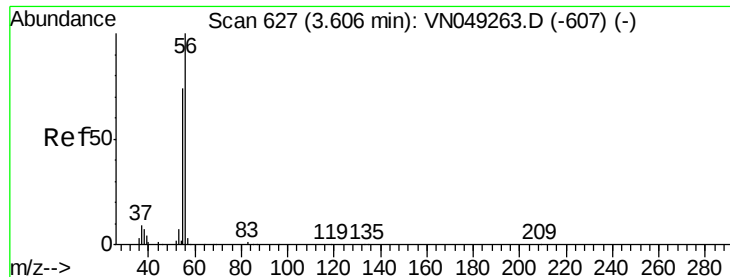


Abundance Ion 141.80 (141.50 to 142.50): VN049263.D (-711) (-)

Ion 126.80 (126.50 to 127.50): VN049263.D (-711) (-)

Ion 140.80 (140.50 to 141.50): VN049263.D (-711) (-)





#13

Acrolein

Concen: 0.57 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

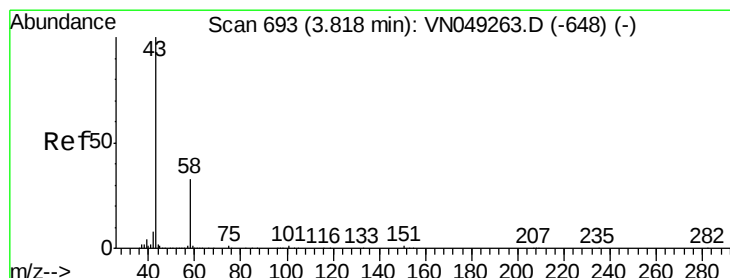
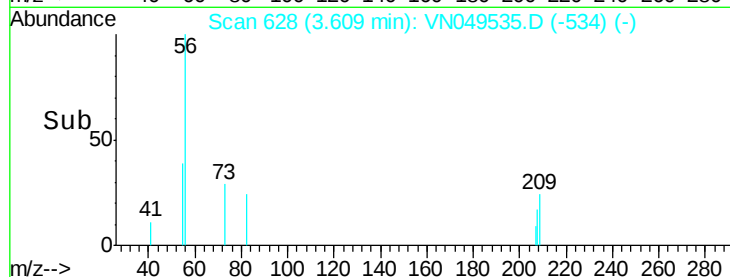
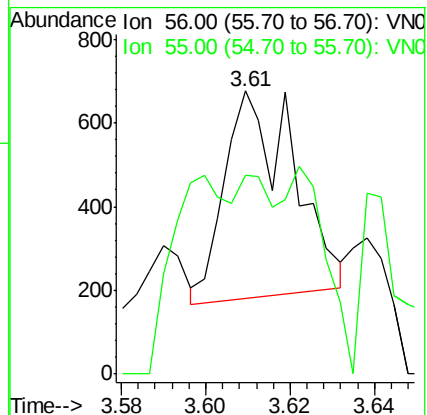
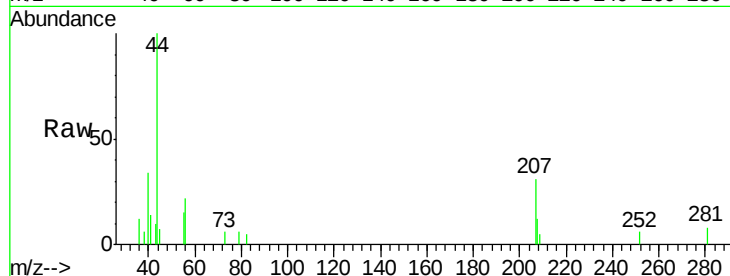
PB110537ZHE#12

Tot Ion: 56 Resp: 558

Ion Ratio Lower Upper

56 100

55 81.9 57.1 85.7



#16

Acetone

Concen: 14.04 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049535.D

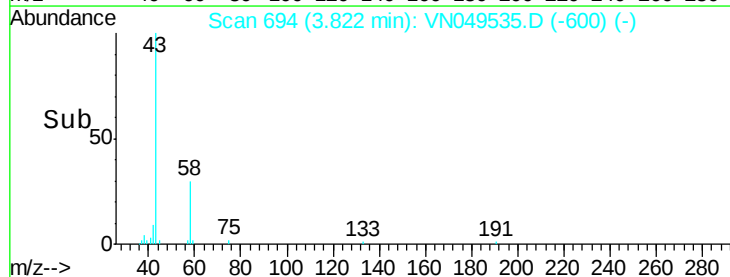
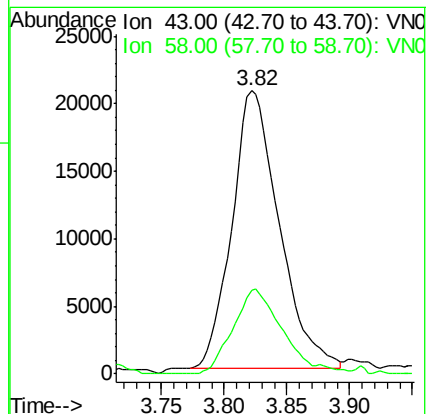
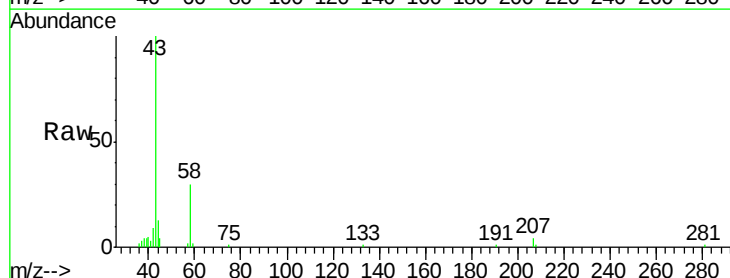
Acq: 26 Jun 2018 2:37

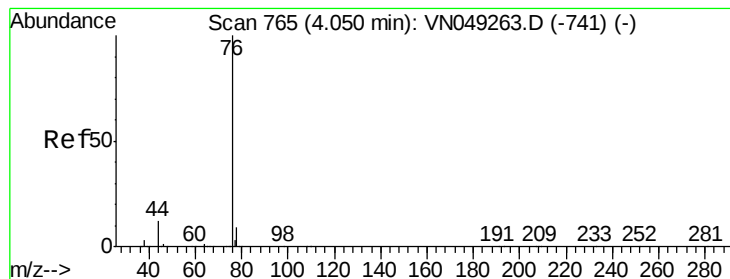
Tgt Ion: 43 Resp: 53936

Ion Ratio Lower Upper

43 100

58 30.1 22.4 33.6





#17

Carbon Disulfide

Concen: 0.31 ug/l

RT: 4.06 min Scan# 767

Delta R.T. 0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

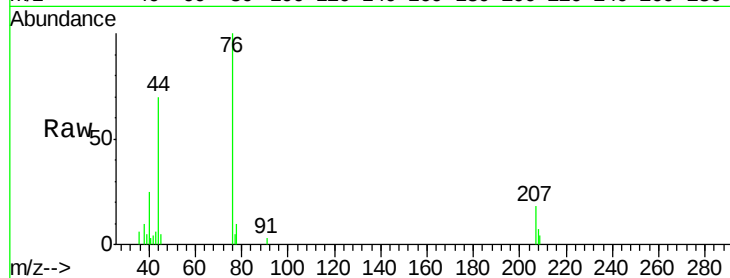
PB110537ZHE#12

Tot Ion: 76 Resp: 13235

Ion Ratio Lower Upper

76 100

78 10.0 7.4 11.0

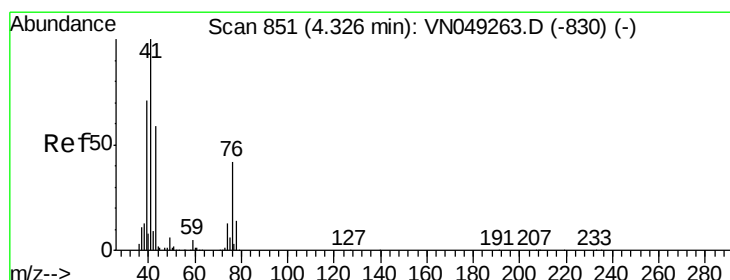
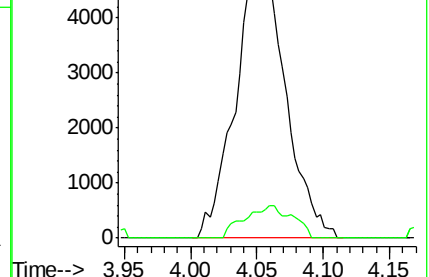
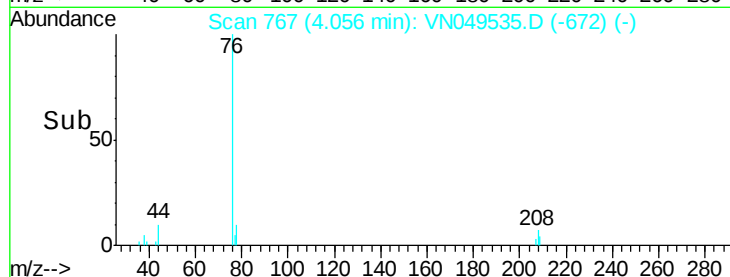


Abundance Ion 75.90 (75.60 to 76.60): VN049535.D (-741) (-)

Ion 77.90 (77.60 to 78.60): VN049535.D (-741) (-)

4.06

Time-->



#18

Methyl Acetate

Concen: 6.51 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049535.D

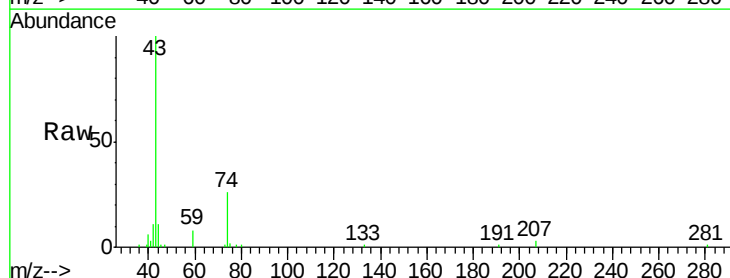
Acq: 26 Jun 2018 2:37

Tgt Ion: 43 Resp: 76270

Ion Ratio Lower Upper

43 100

74 25.5 17.4 26.0

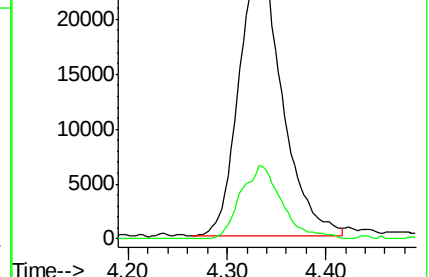
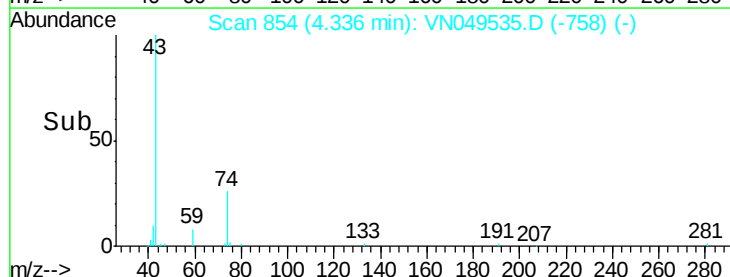


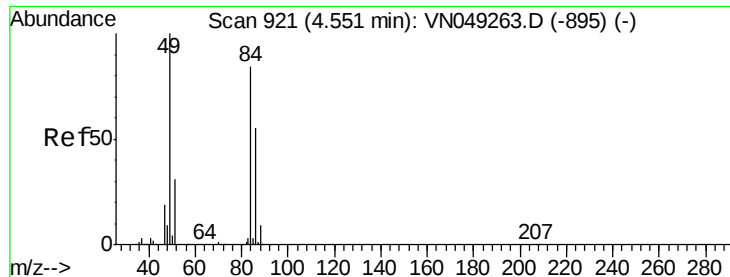
Abundance Ion 43.00 (42.70 to 43.70): VN049535.D (-830) (-)

Ion 74.00 (73.70 to 74.70): VN049535.D (-830) (-)

4.34

Time-->

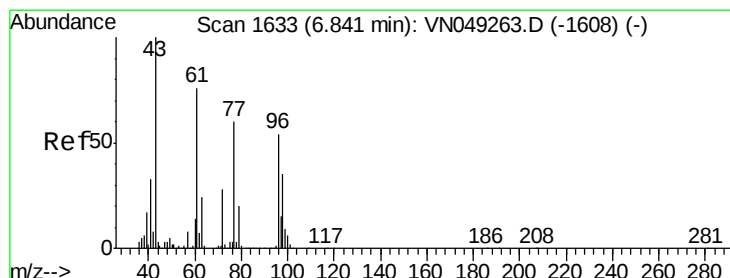
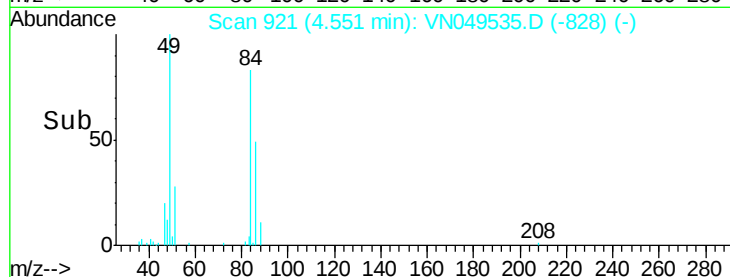
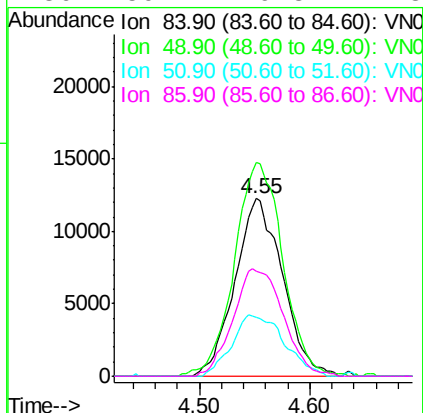
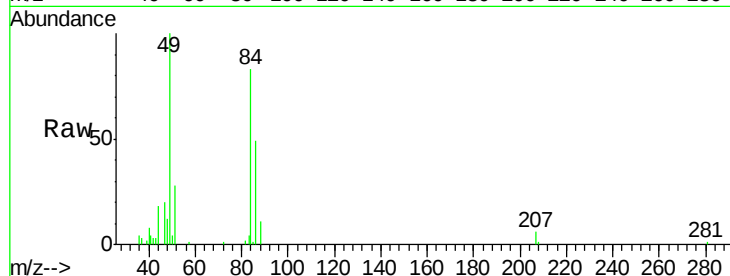




#20
Methvlene Chloride
Concen: 2.28 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049535.D
Acq: 26 Jun 2018 2:37

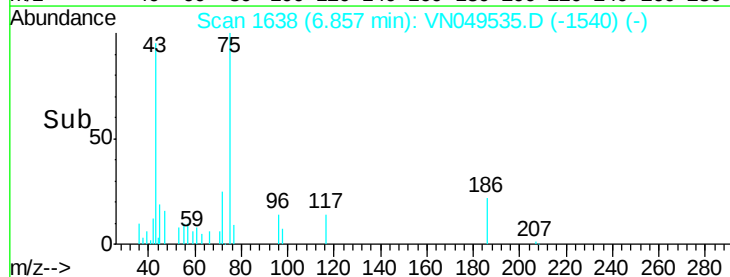
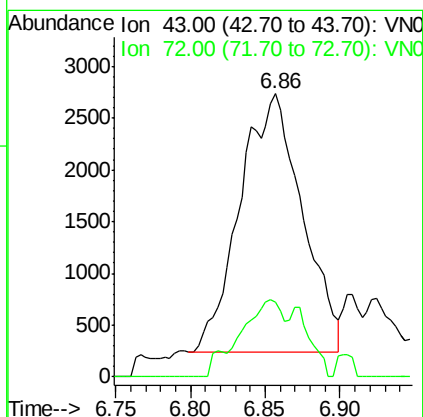
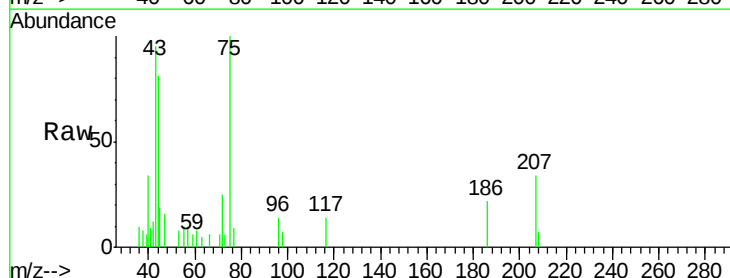
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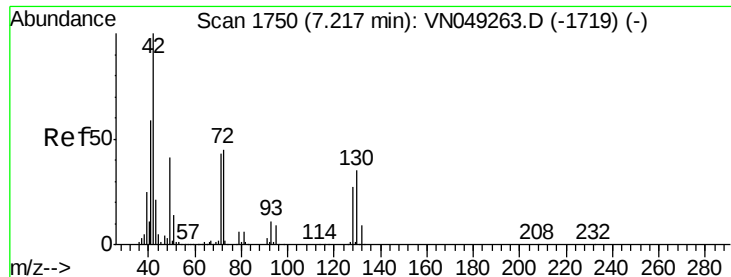
Tot Ion: 84 Resp: 36659
Ion Ratio Lower Upper
84 100
49 118.8 106.9 160.3
51 33.1 32.7 49.1
86 59.4 49.8 74.8



#25
2-Butanone
Concen: 1.40 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN049535.D
Acq: 26 Jun 2018 2:37

Tgt Ion: 43 Resp: 7247
Ion Ratio Lower Upper
43 100
72 28.8 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 7.21 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

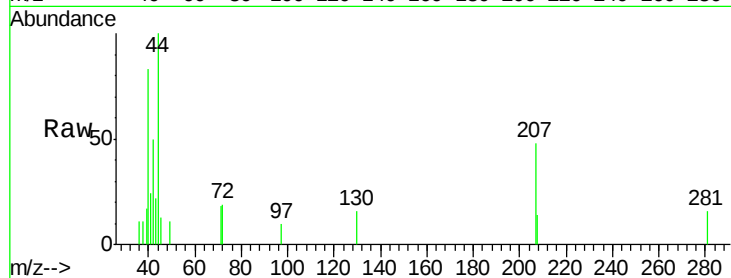
Tot Ion: 42 Resp: 1055

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.4#

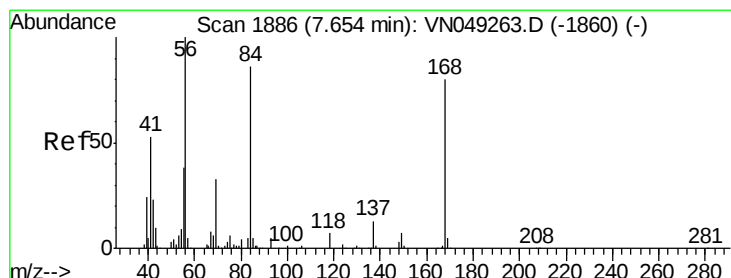
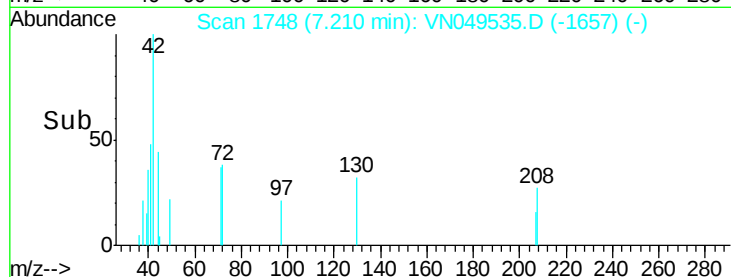
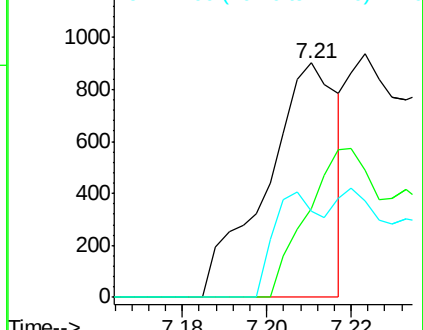
71 30.0 30.5 45.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.80 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

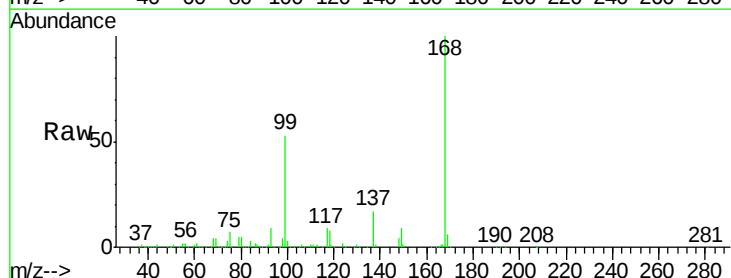
Tgt Ion: 56 Resp: 22890

Ion Ratio Lower Upper

56 100

69 185.4 25.0 37.4#

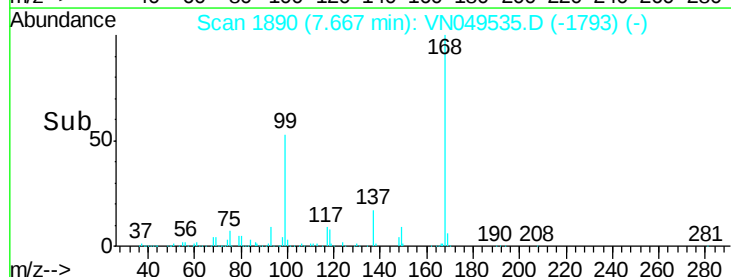
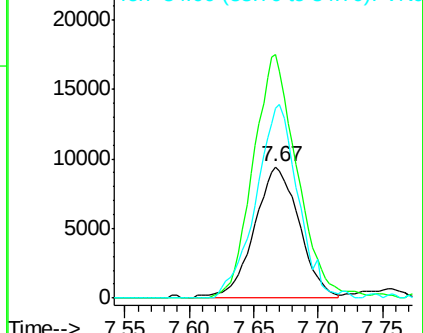
84 145.0 64.6 96.8#

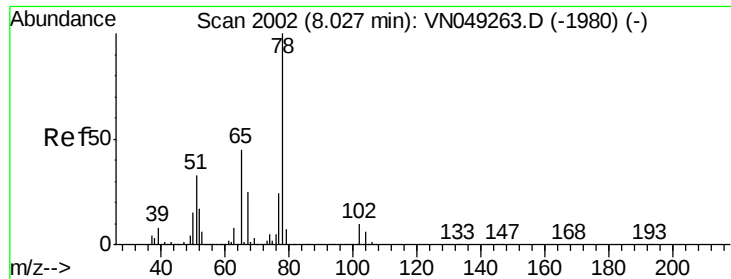


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

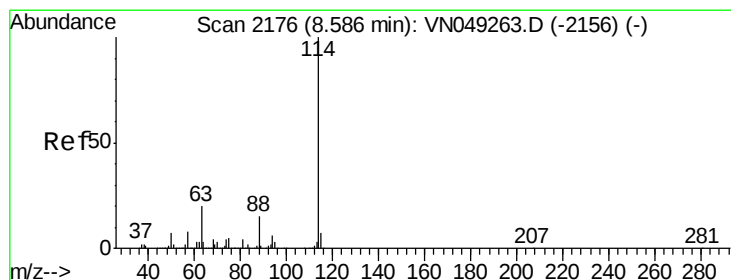
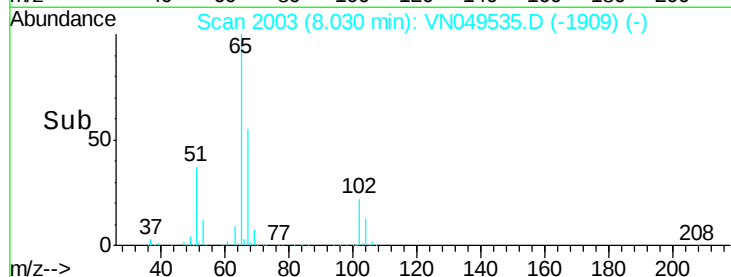
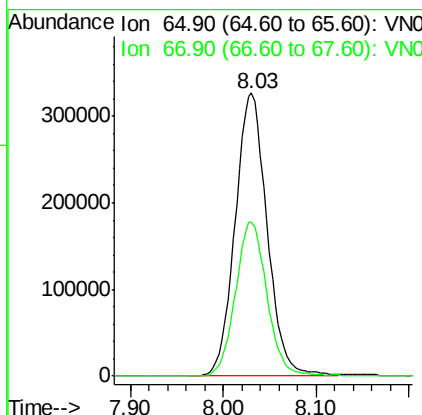
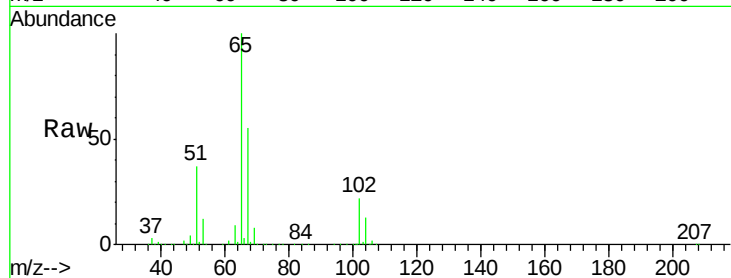




#33
 1,2-Dichloroethane-d4
 Concen: 49.33 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049535.D
 Acq: 26 Jun 2018 2:37

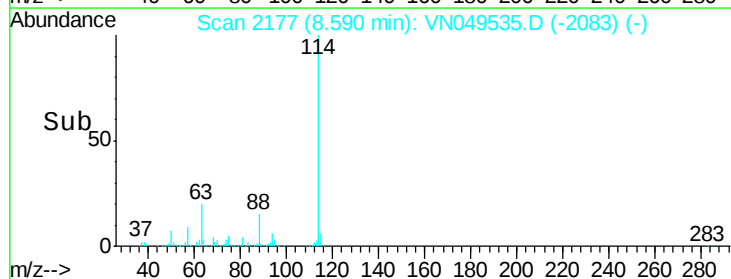
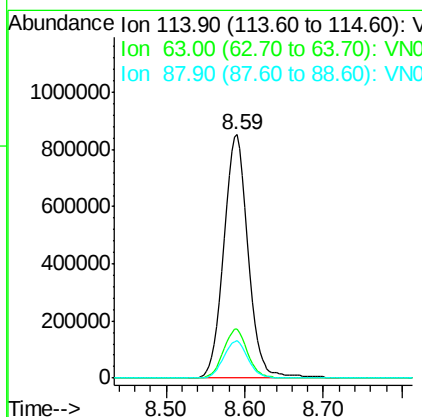
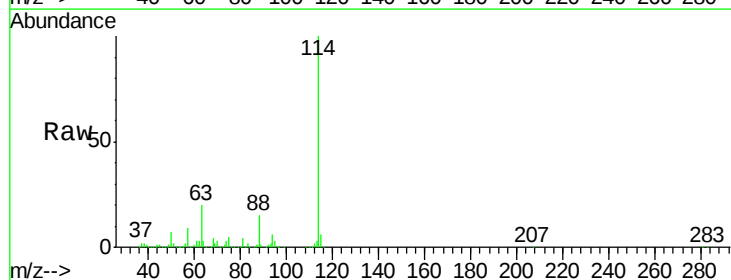
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#12

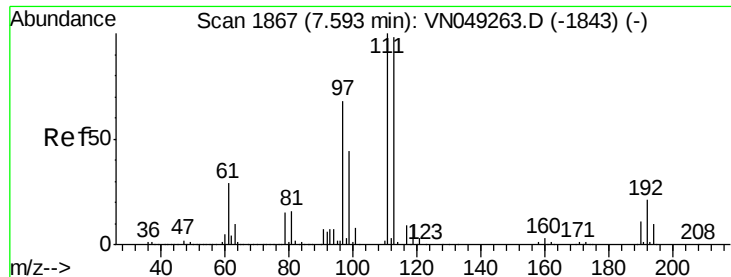
Tot Ion: 65 Resp: 780723
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049535.D
 Acq: 26 Jun 2018 2:37

Tgt Ion: 114 Resp: 1817328
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 44.4
 88 15.3 0.0 31.4

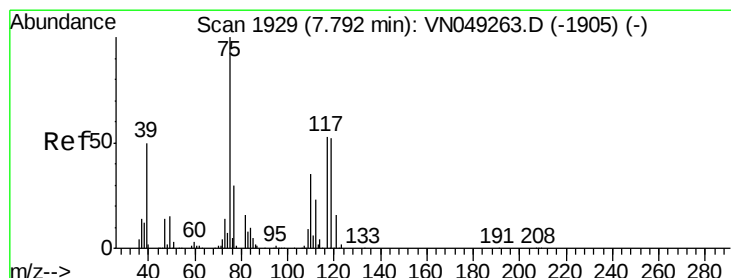
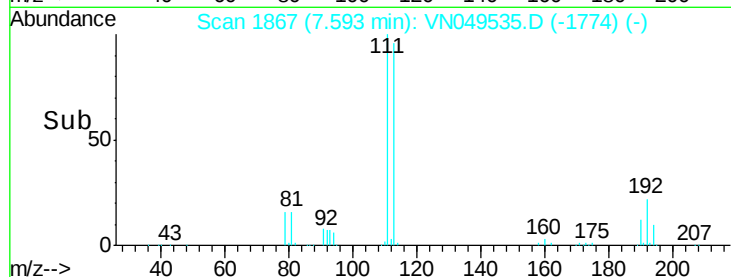
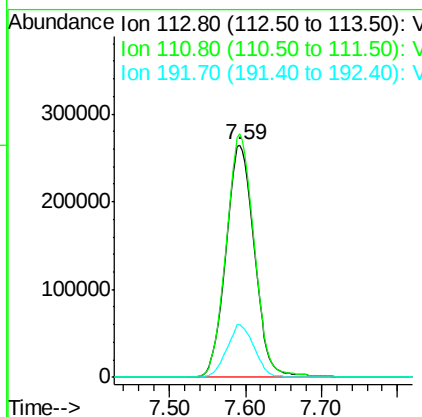
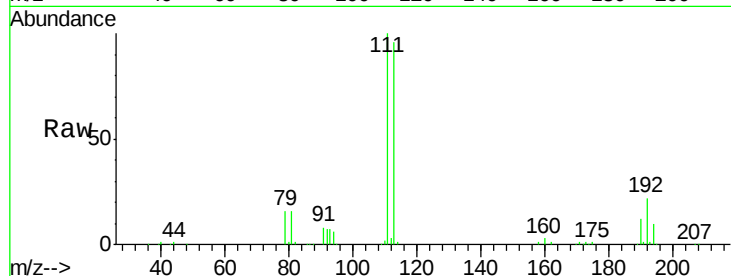




#35
 Dibromofluoromethane
 Concen: 47.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049535.D
 Acq: 26 Jun 2018 2:37

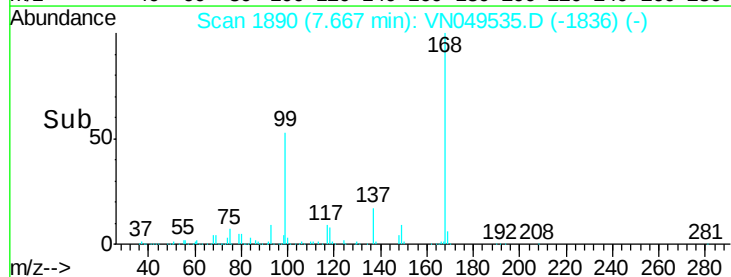
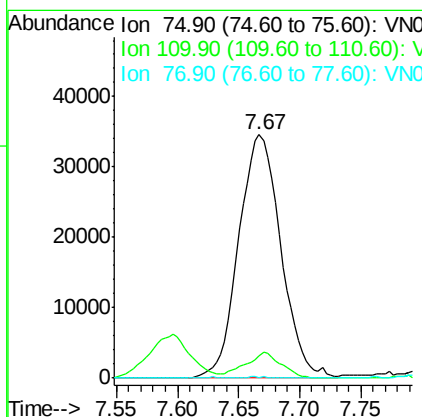
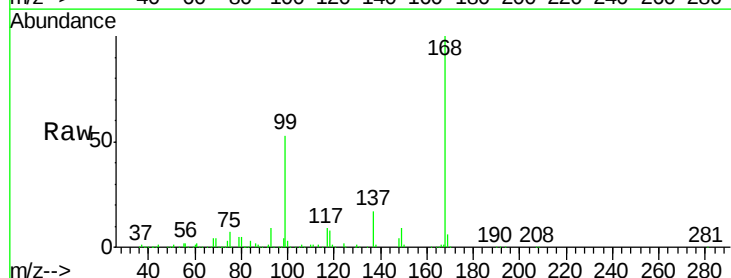
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#12

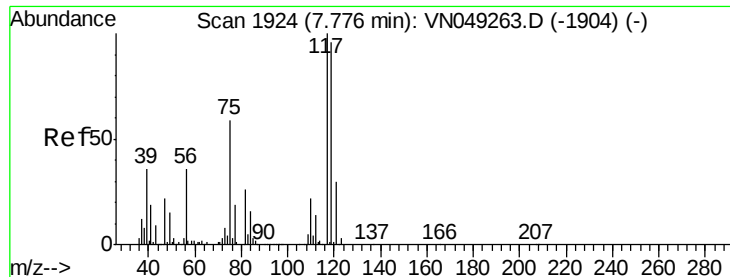
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.4	123.6
192	22.0	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 3.97 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049535.D
 Acq: 26 Jun 2018 2:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.0	50.9#
77	0.1	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 4.95 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

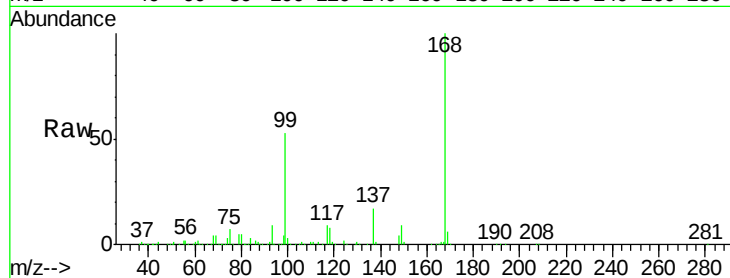
Tot Ion:117 Resp: 106696

Ion Ratio Lower Upper

117 100

119 6.2 75.6 113.4#

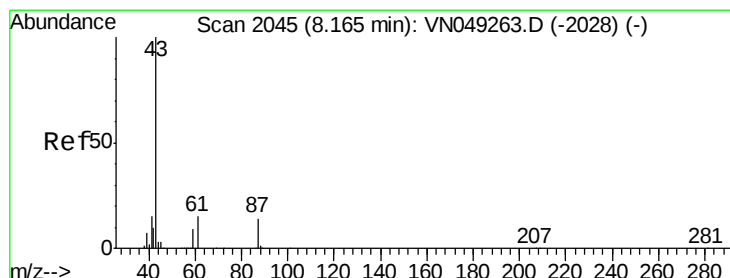
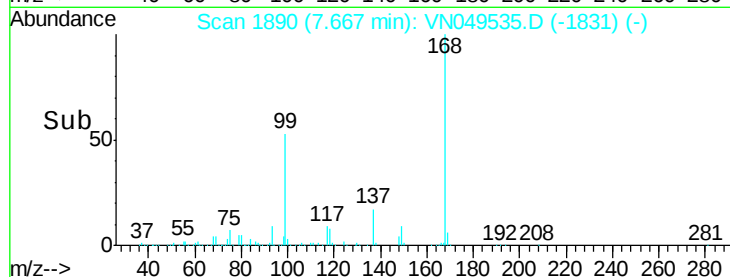
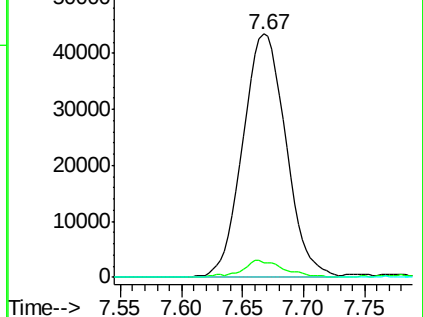
121 0.0 24.7 37.1#



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: 2.91 ug/l

RT: 8.25 min Scan# 2072

Delta R.T. 0.09 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

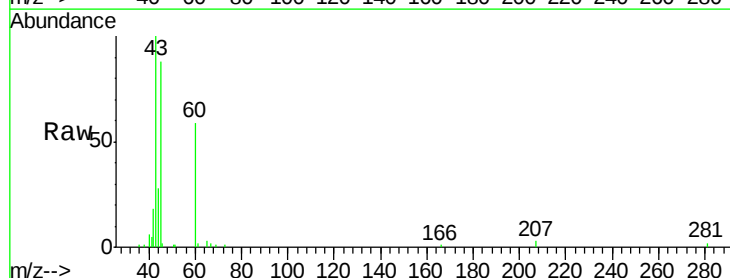
Tgt Ion: 43 Resp: 62865

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

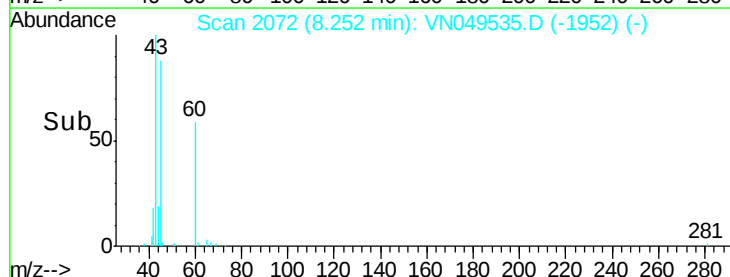
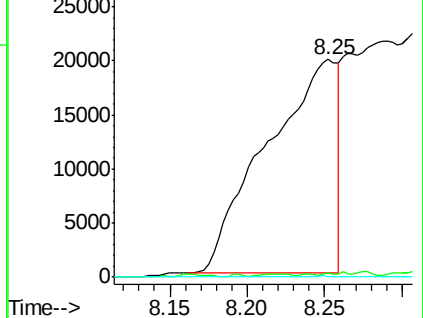
87 0.0 9.4 14.0#

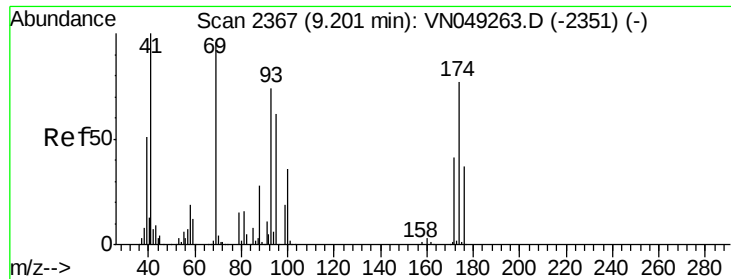


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

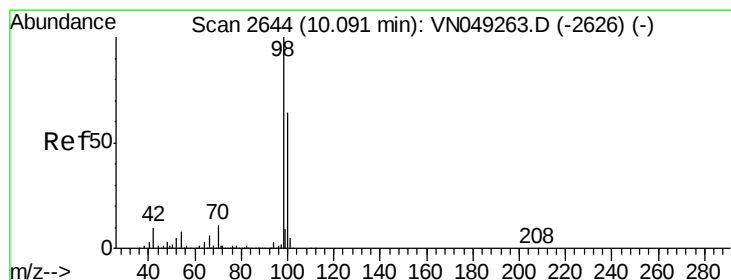
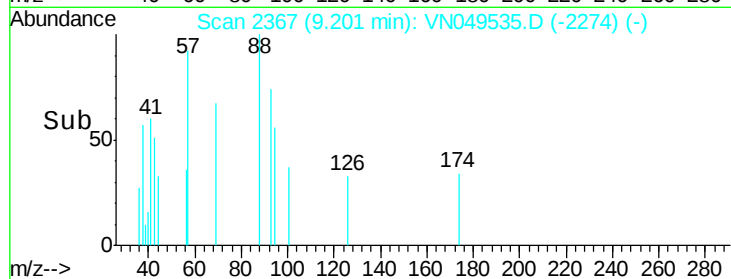
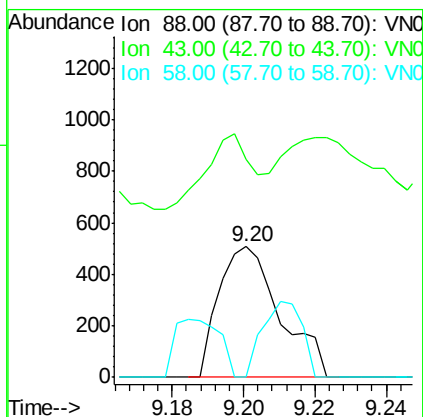
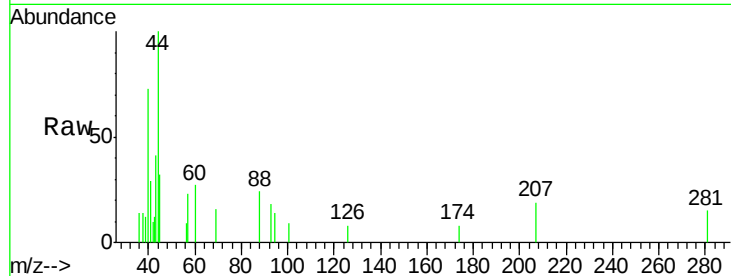




#49
1,4-Dioxane
Concen: 4.27 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN049535.D
Acq: 26 Jun 2018 2:37

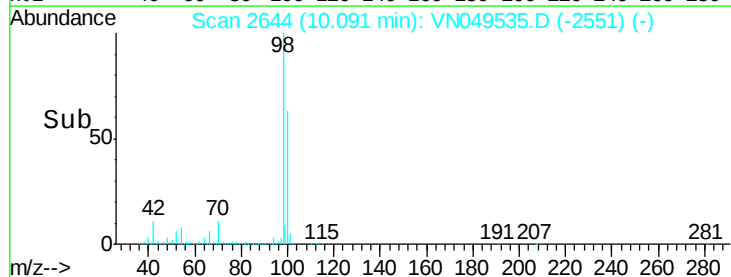
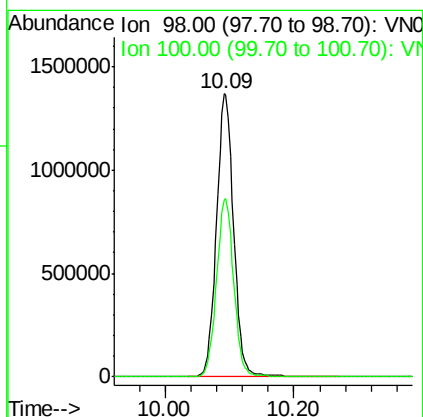
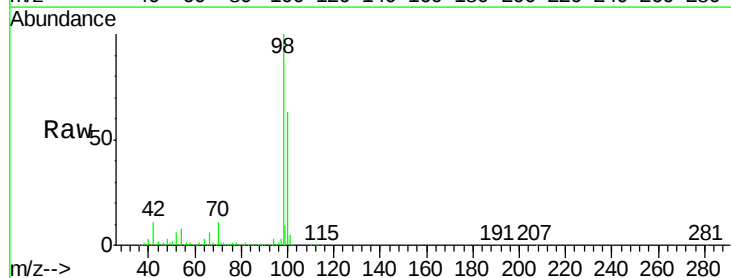
Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#12

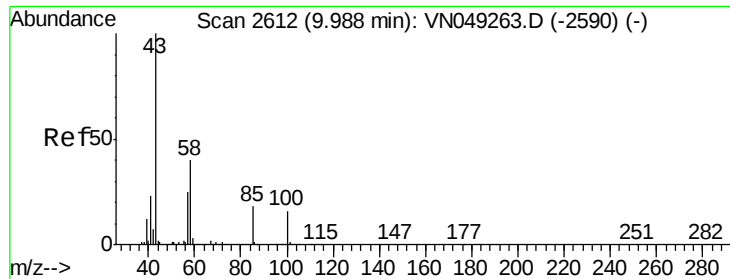
Tot Ion: 88 Resp: 600
Ion Ratio Lower Upper
88 100
43 44.0 30.9 46.3
58 32.8 58.9 88.3#



#50
Toluene-d8
Concen: 45.06 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049535.D
Acq: 26 Jun 2018 2:37

Tgt Ion: 98 Resp: 2522798
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.8

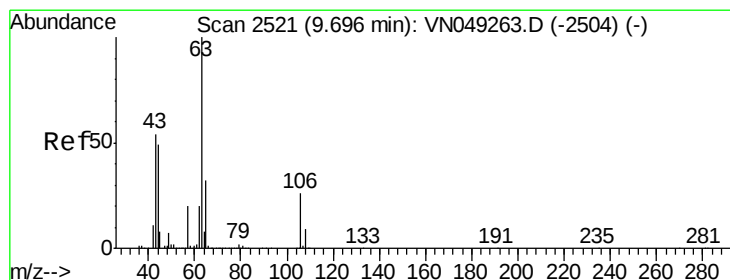
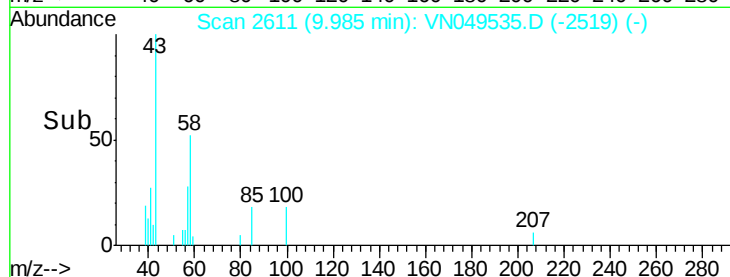
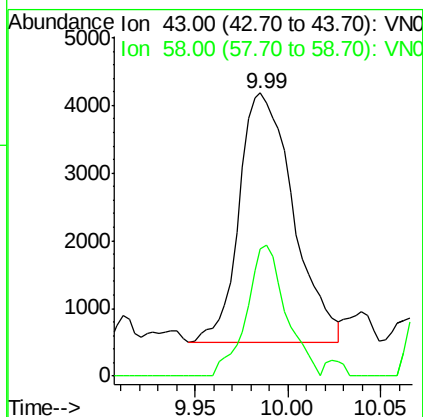
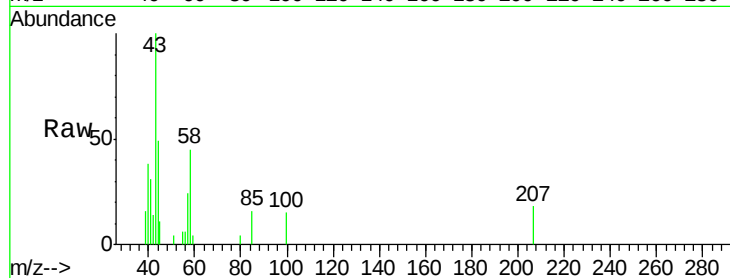




#51
 4-Methyl-2-Pentanone
 Concen: 0.66 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049535.D
 Acq: 26 Jun 2018 2:37

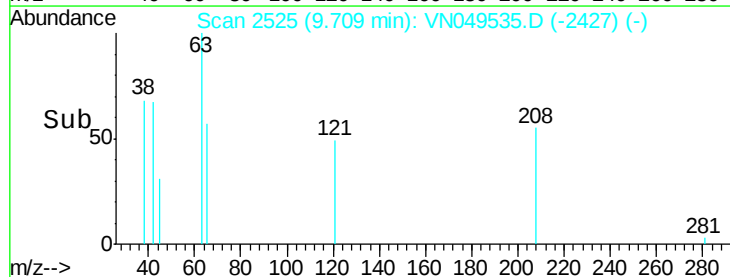
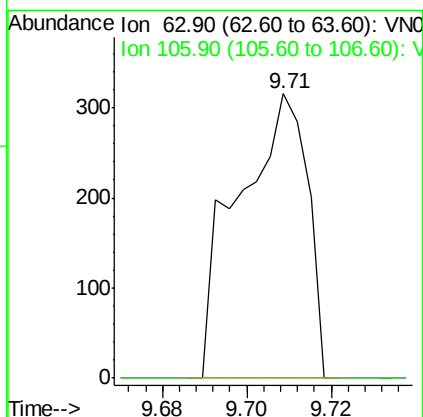
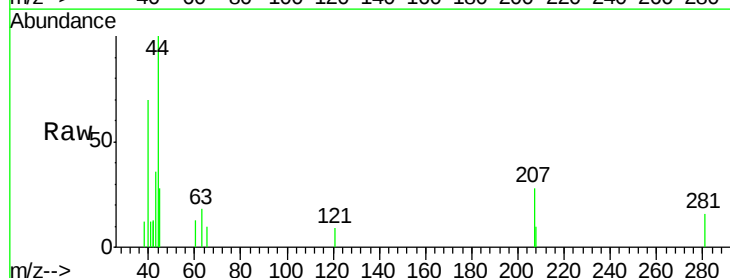
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#12

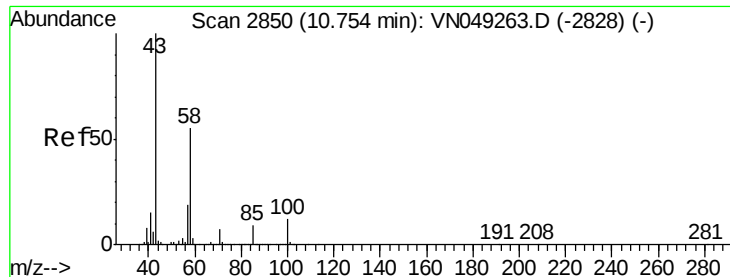
Tot Ion: 43 Resp: 7505
 Ion Ratio Lower Upper
 43 100
 58 38.0 29.0 43.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.39 ug/l
 RT: 9.71 min Scan# 2525
 Delta R.T. 0.01 min
 Lab File: VN049535.D
 Acq: 26 Jun 2018 2:37

Tgt Ion: 63 Resp: 359
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#





#59

2-Hexanone

Concen: 0.64 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

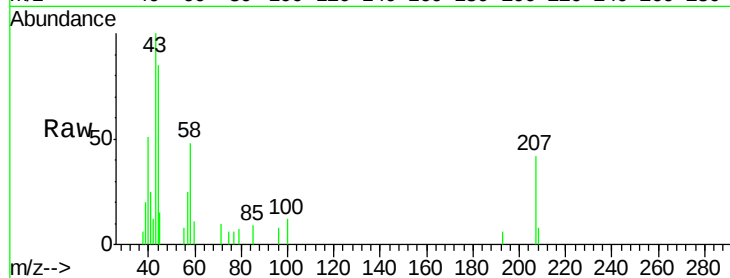
PB110537ZHE#12

Tot Ion: 43 Resp: 4658

Ion Ratio Lower Upper

43 100

58 50.2 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

2500

2000

1500

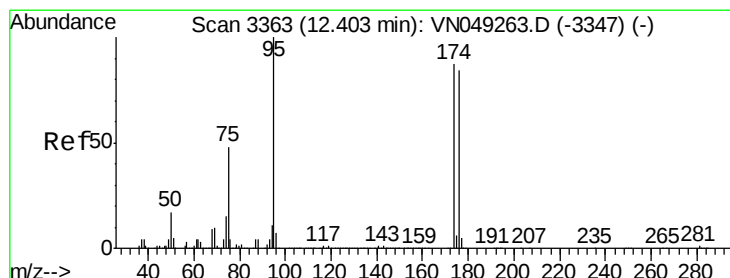
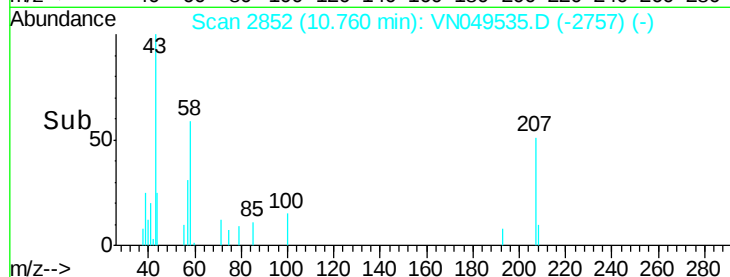
1000

500

0

Time-->

10.70 10.75 10.80



#62

4-Bromofluorobenzene

Concen: 32.22 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

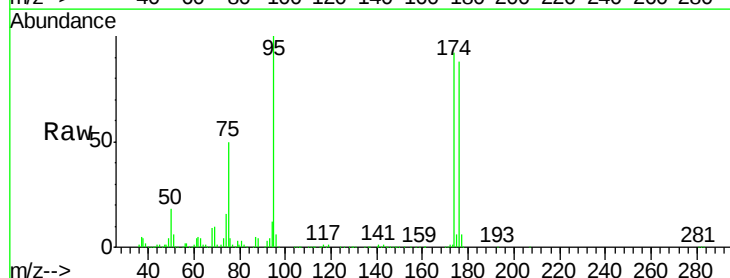
Tgt Ion: 95 Resp: 596379

Ion Ratio Lower Upper

95 100

174 89.3 0.0 165.6

176 86.8 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

400000

300000

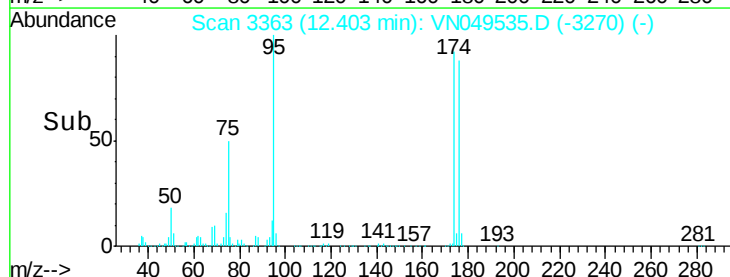
200000

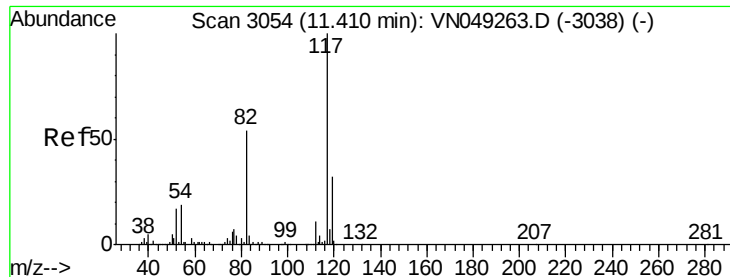
100000

0

Time-->

12.30 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

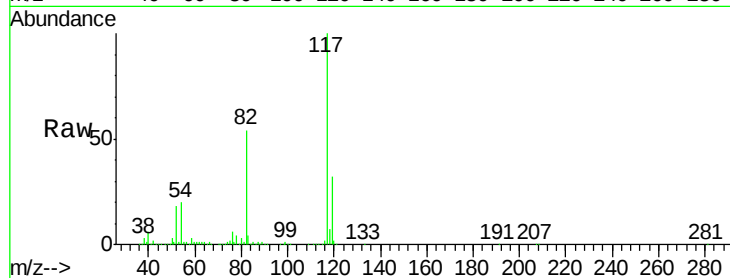
Tot Ion:117 Resp: 1505227

Ion Ratio Lower Upper

117 100

82 54.1 45.9 68.9

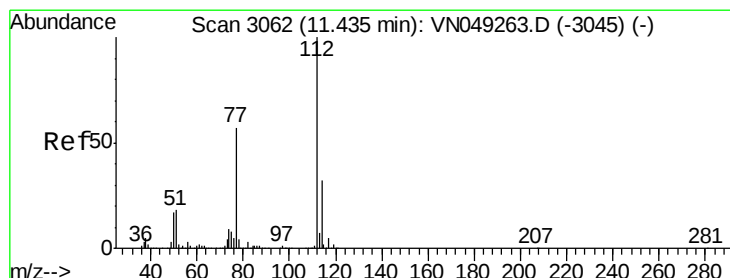
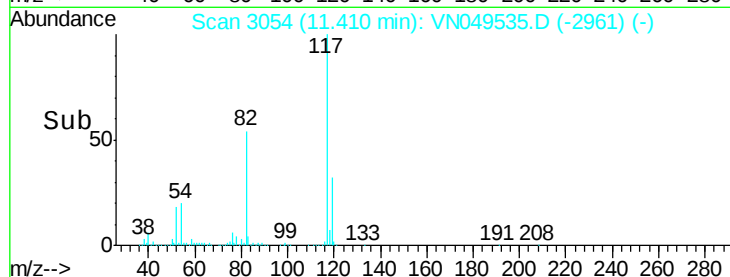
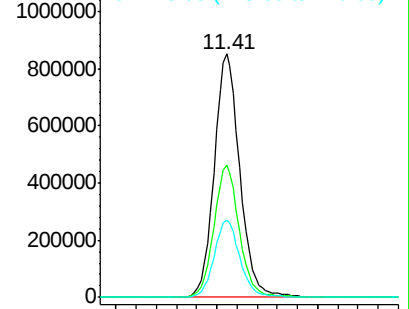
119 31.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#65

Chlorobenzene

Concen: 0.45 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049535.D

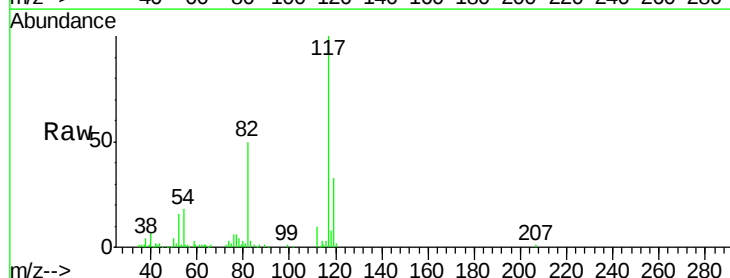
Acq: 26 Jun 2018 2:37

Tgt Ion:112 Resp: 17260

Ion Ratio Lower Upper

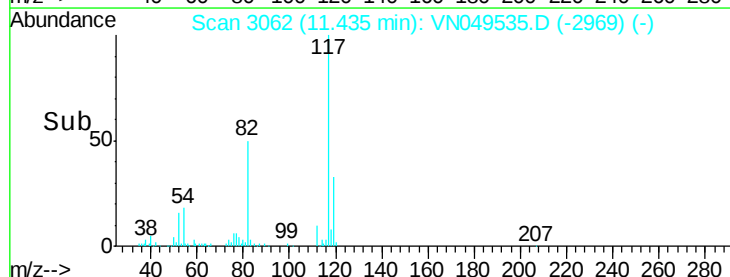
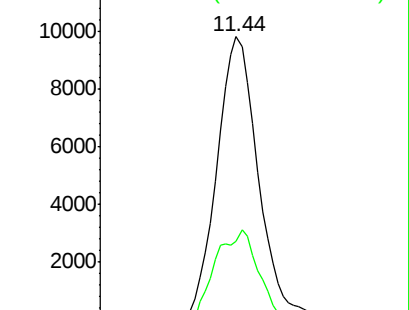
112 100

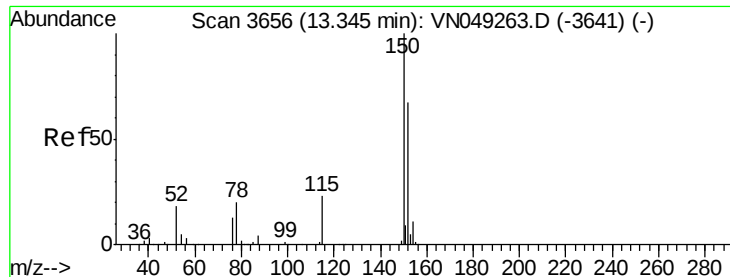
114 27.8 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

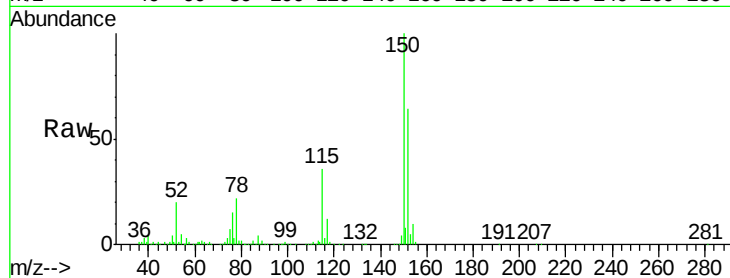
Tot Ion:152 Resp: 375995

Ion Ratio Lower Upper

152 100

115 56.8 28.7 86.1

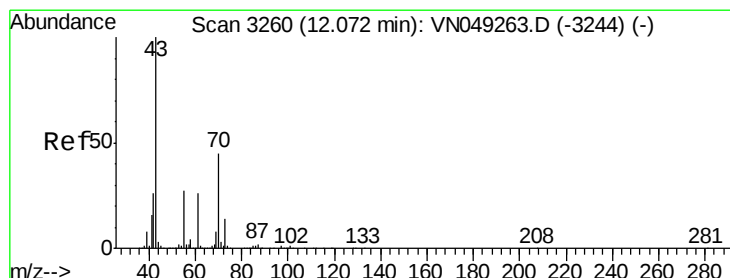
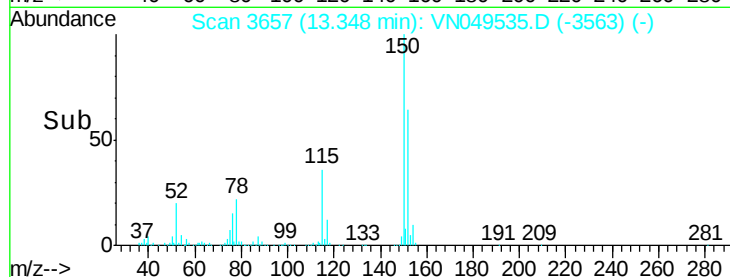
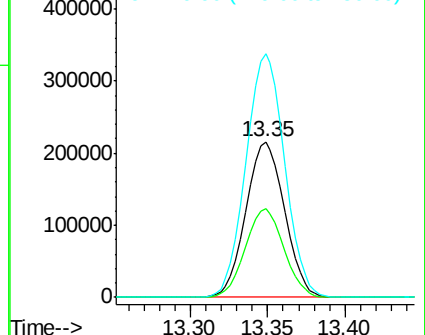
150 157.0 0.0 351.0



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: 0.25 ug/l

RT: 12.05 min Scan# 3254

Delta R.T. -0.02 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Tgt Ion: 43 Resp: 2018

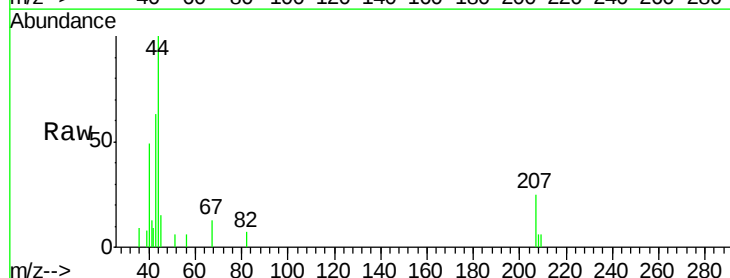
Ion Ratio Lower Upper

43 100

70 0.0 30.3 45.5#

55 0.0 19.4 29.2#

61 0.0 17.8 26.6#

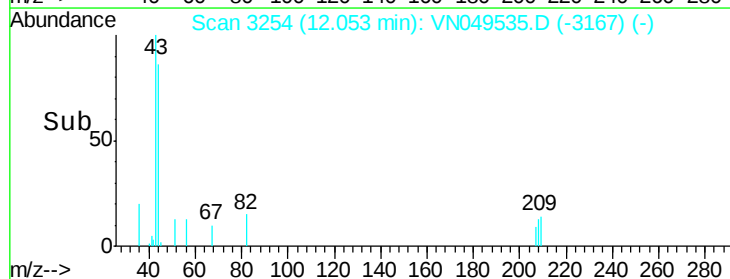
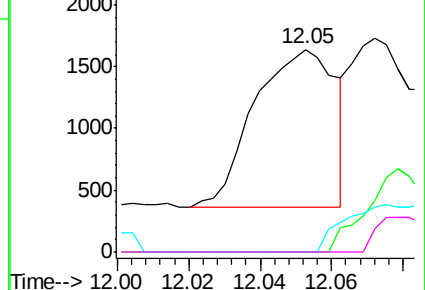


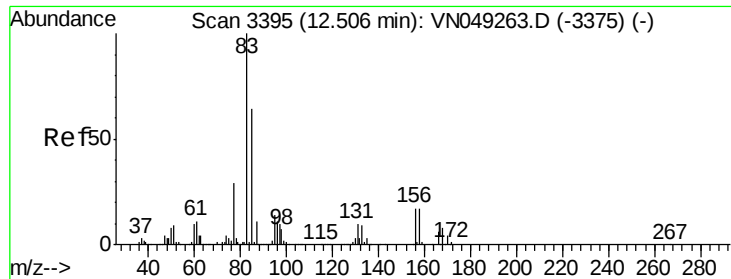
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

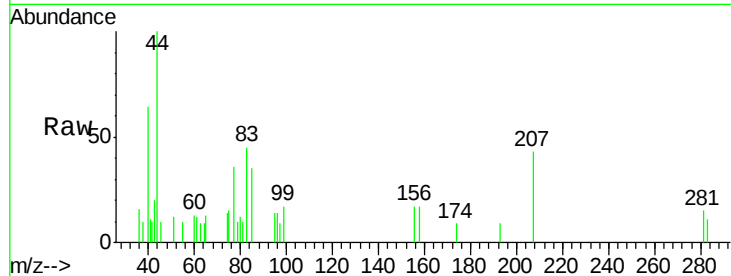
Tot Ion: 83 Resp: 1228

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

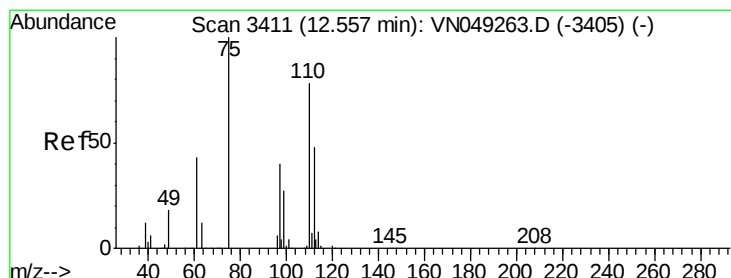
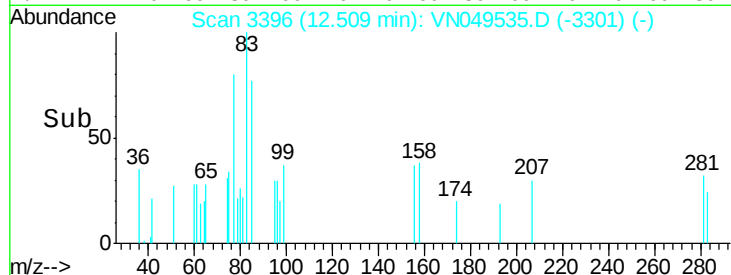
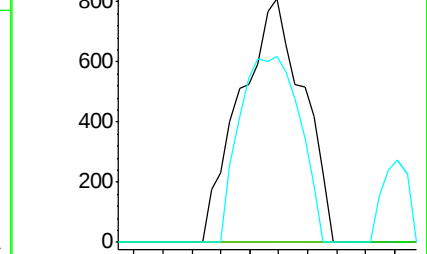
85 72.8 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 45.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049535.D

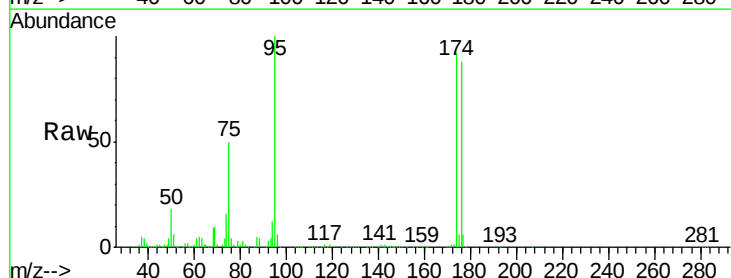
Acq: 26 Jun 2018 2:37

Tgt Ion: 75 Resp: 289258

Ion Ratio Lower Upper

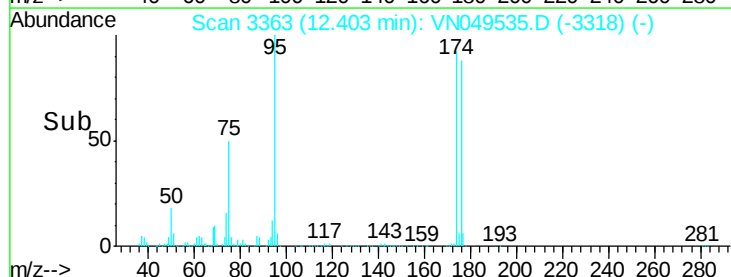
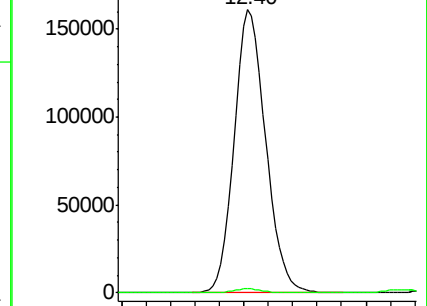
75 100

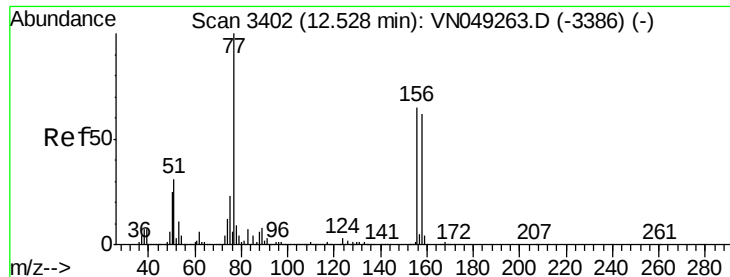
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 0.29 ug/l

RT: 12.53 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

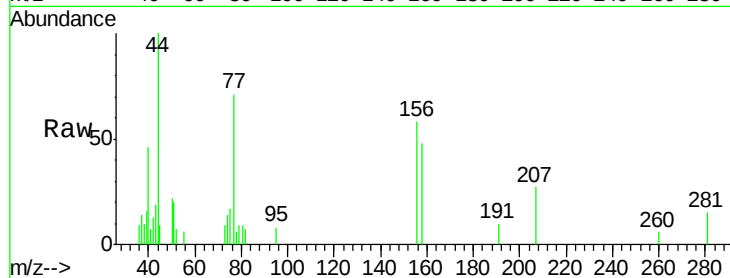
Tot Ion:156 Resp: 2507

Ion Ratio Lower Upper

156 100

77 183.3 100.8 302.4

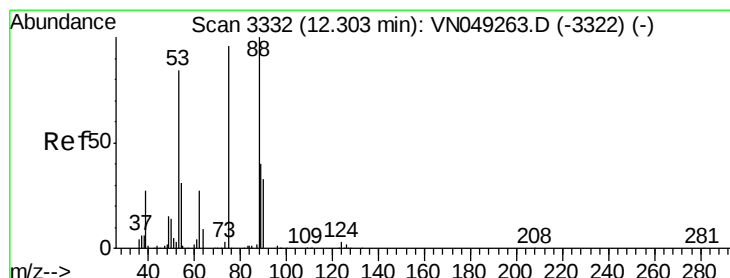
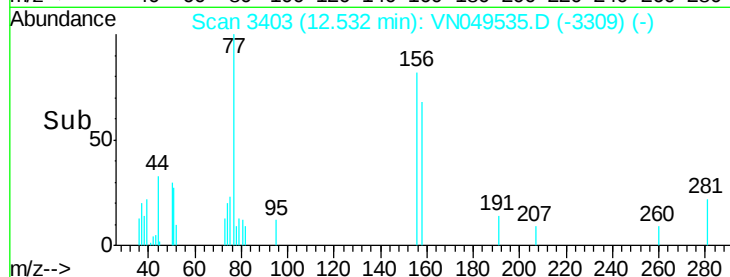
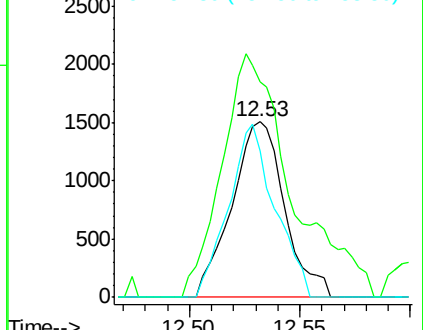
158 86.4 49.3 147.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 142.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

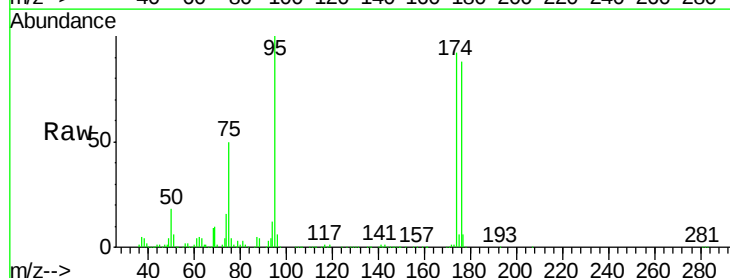
Tgt Ion: 75 Resp: 289258

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

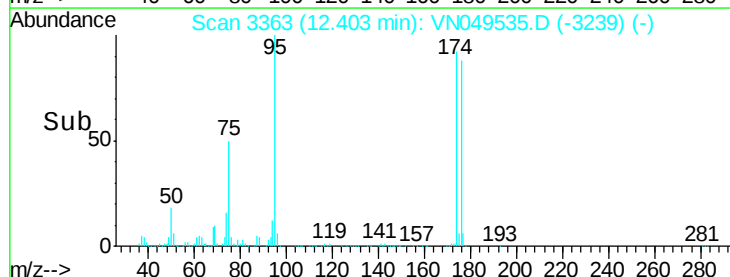
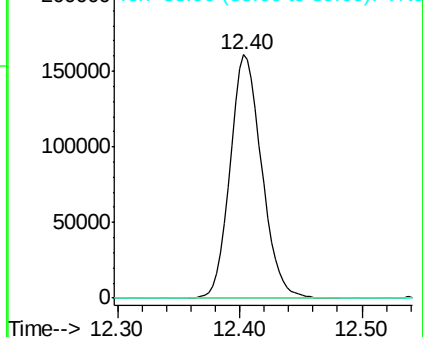
89 0.0 36.5 54.7#

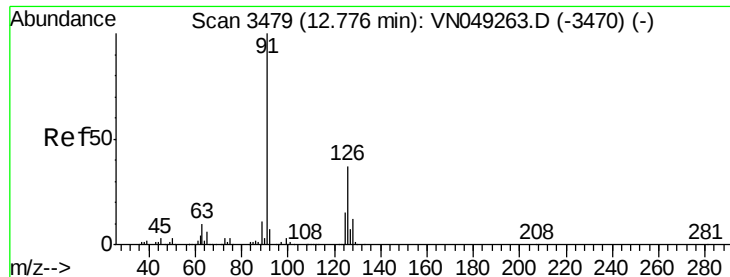


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.26 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

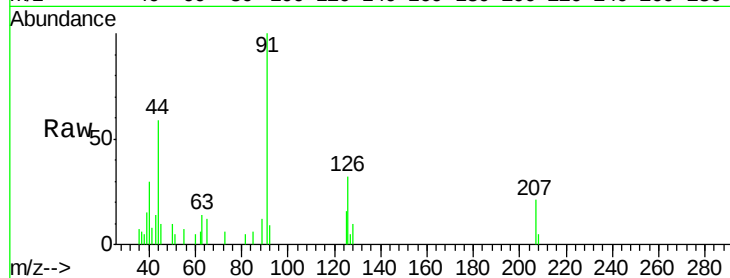
PB110537ZHE#12

Tot Ion: 91 Resp: 5870

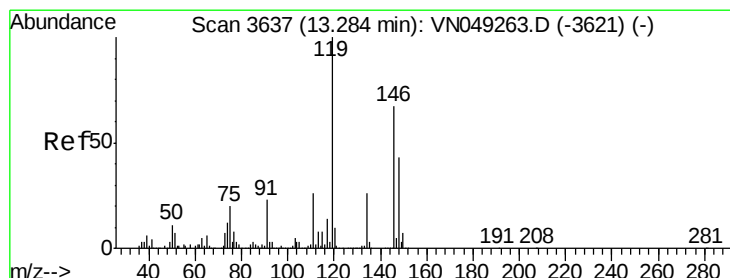
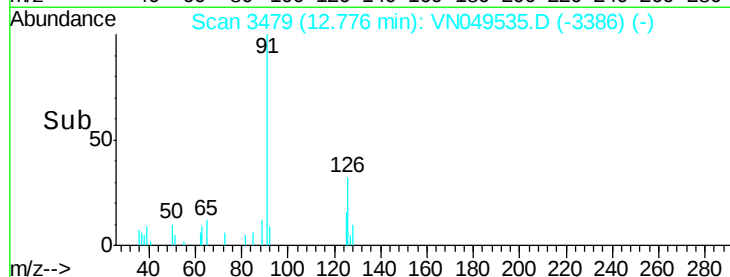
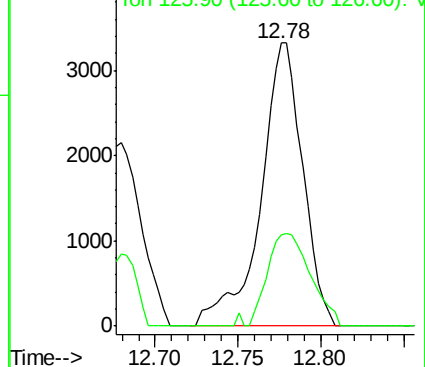
Ion Ratio Lower Upper

91 100

126 33.4 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VN049535.D (-3470) (-)



#87

1,3-Dichlorobenzene

Concen: 0.33 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

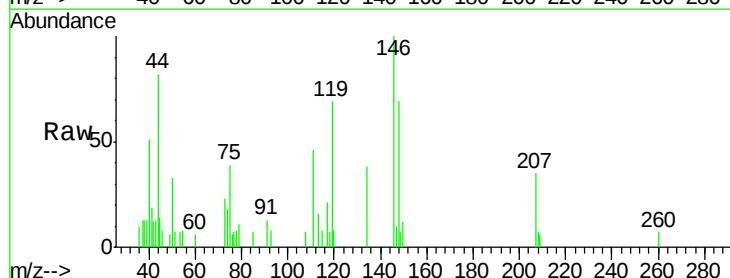
Tgt Ion: 146 Resp: 4730

Ion Ratio Lower Upper

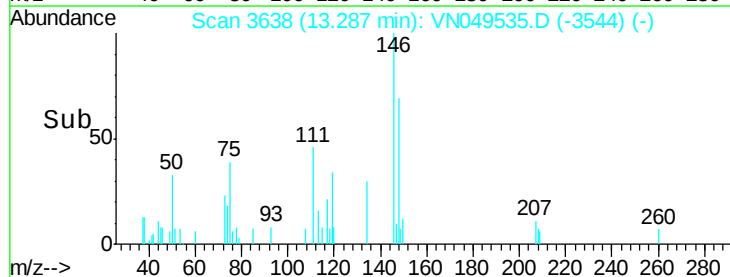
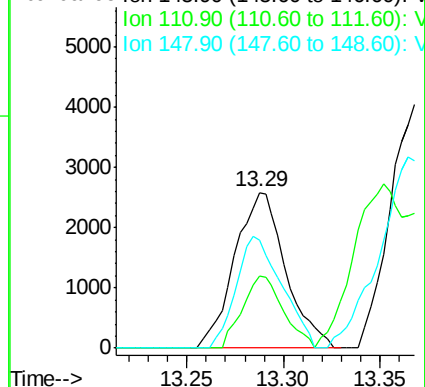
146 100

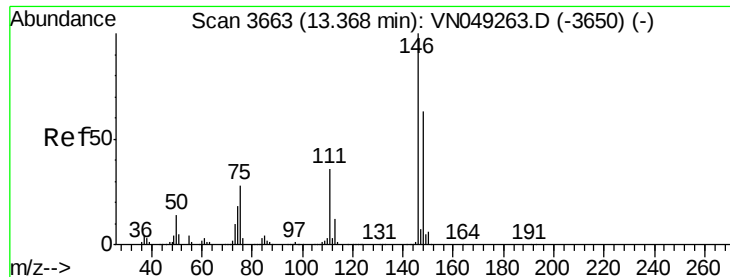
111 36.9 19.9 59.6

148 64.1 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): VN049535.D (-3637) (-)





#88

1,4-Dichlorobenzene

Concen: 0.33 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. -0.08 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

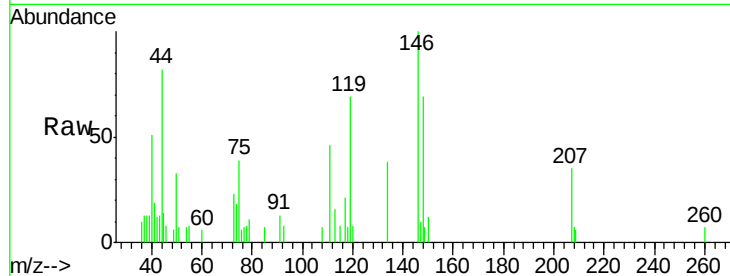
Tot Ion:146 Resp: 4730

Ion Ratio Lower Upper

146 100

111 36.9 19.1 57.1

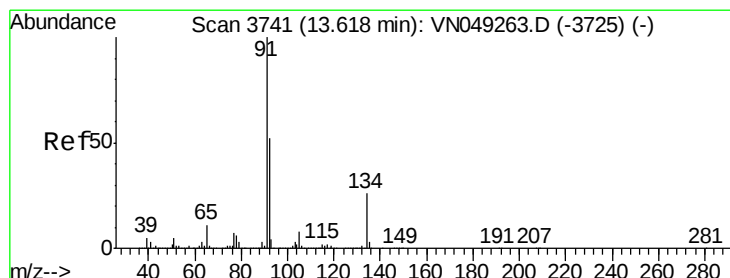
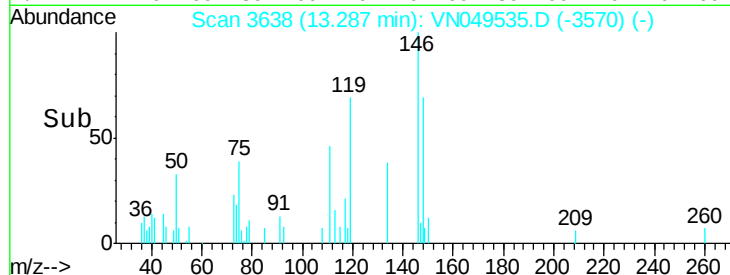
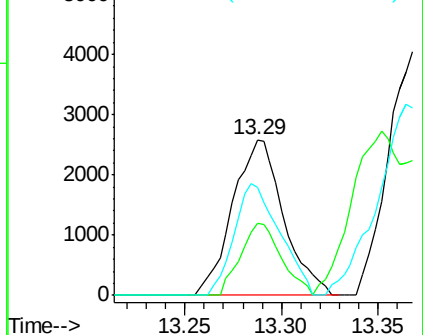
148 64.1 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.31 ug/l

RT: 13.62 min Scan# 3742

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

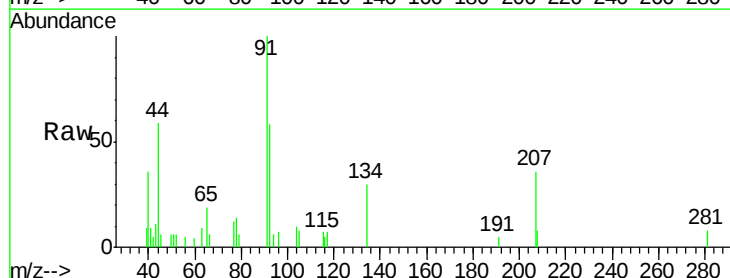
Tgt Ion: 91 Resp: 6264

Ion Ratio Lower Upper

91 100

92 49.8 25.1 75.4

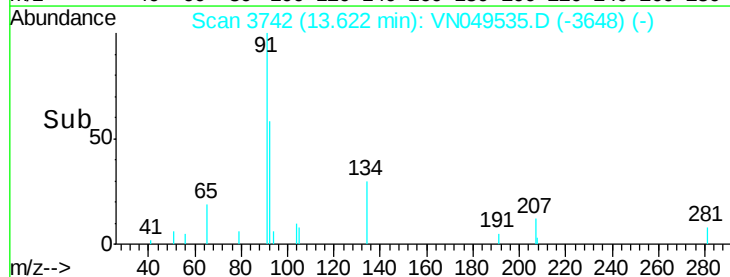
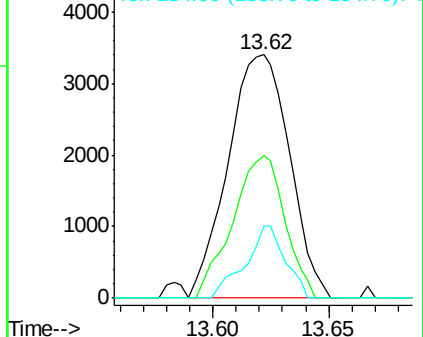
134 19.3 12.0 36.0

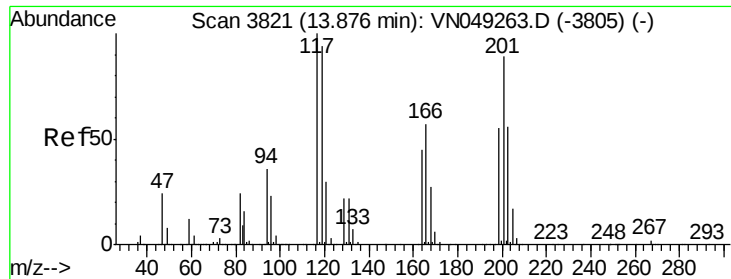


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.87 min Scan# 3819

Delta R.T. -0.01 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

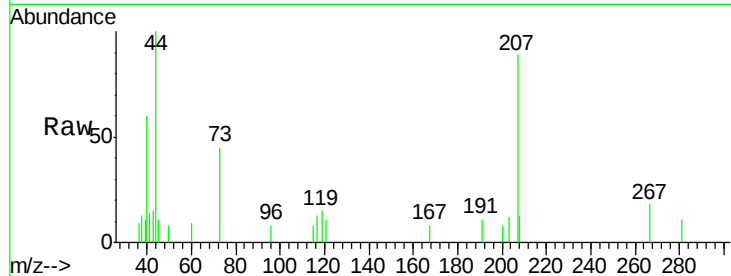
PB110537ZHE#12

Tot Ion:117 Resp: 165

Ion Ratio Lower Upper

117 100

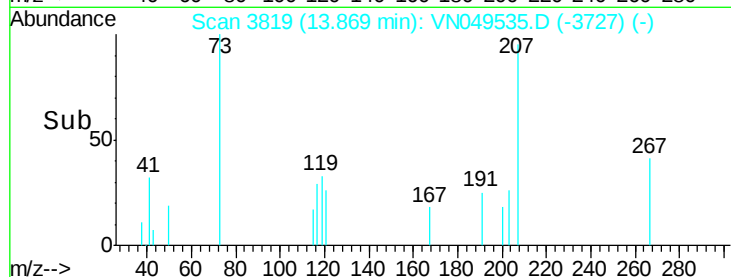
201 239.4 40.1 120.2#



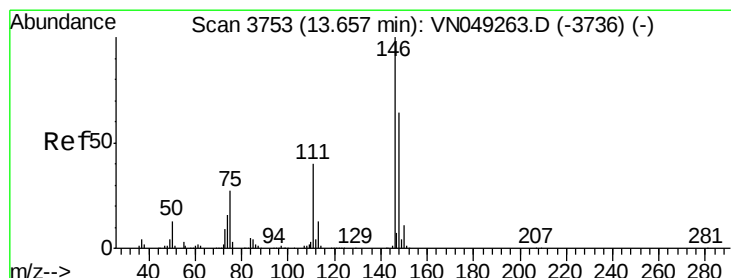
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

Time-->



Time-->



#91

1,2-Dichlorobenzene

Concen: 0.37 ug/l

RT: 13.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

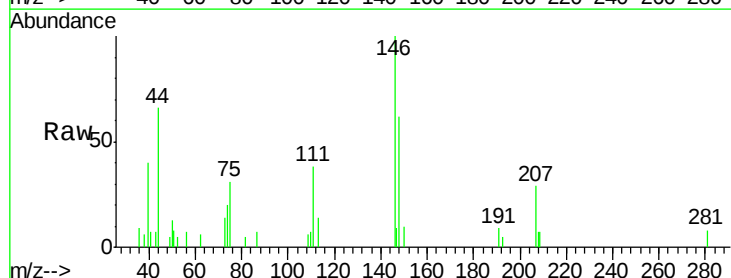
Tgt Ion:146 Resp: 5167

Ion Ratio Lower Upper

146 100

111 39.6 20.8 62.2

148 56.4 32.0 96.2

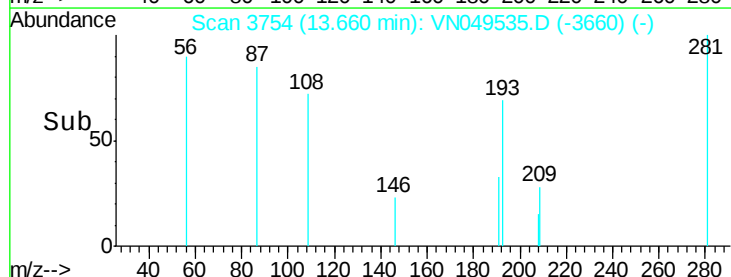


Abundance Ion 145.90 (145.60 to 146.60): V

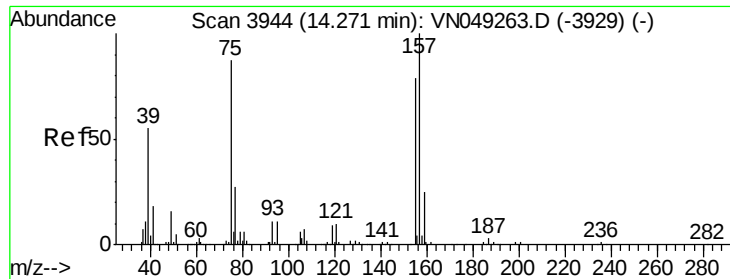
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

Time-->



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.74 ug/l

RT: 14.27 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

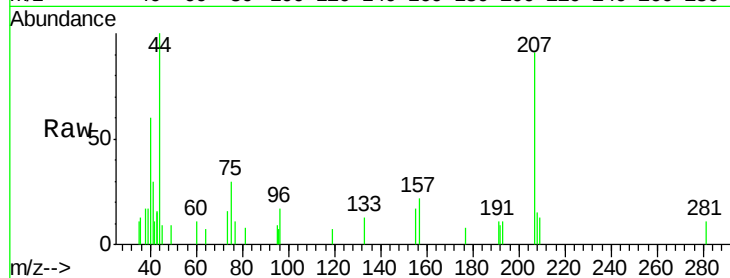
Tot Ion: 75 Resp: 845

Ion Ratio Lower Upper

75 100

155 38.8 38.8 116.3

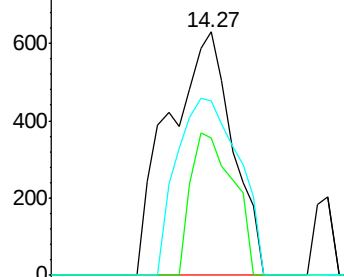
157 70.8 51.0 153.1



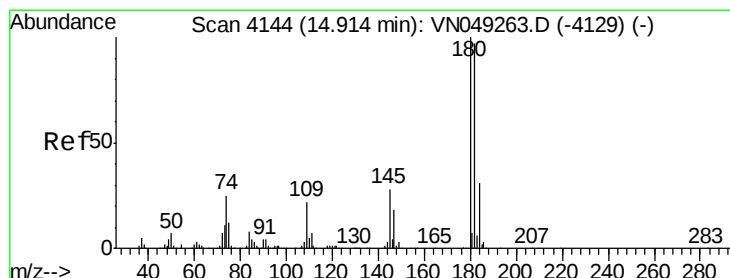
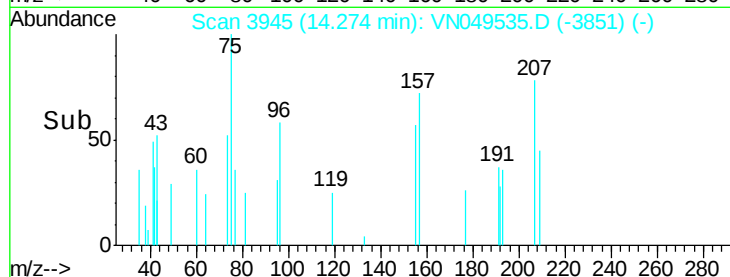
Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-3929) (-)

Ion 154.80 (154.50 to 155.50): VN049263.D (-3929) (-)

Ion 156.80 (156.50 to 157.50): VN049263.D (-3929) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 5.82 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

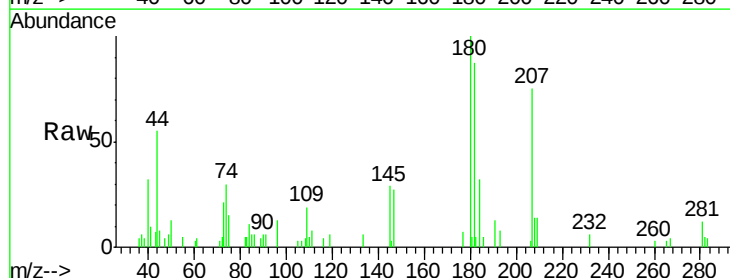
Tgt Ion: 180 Resp: 7698

Ion Ratio Lower Upper

180 100

182 97.9 46.9 140.8

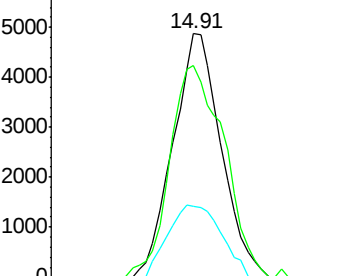
145 32.5 14.7 44.1



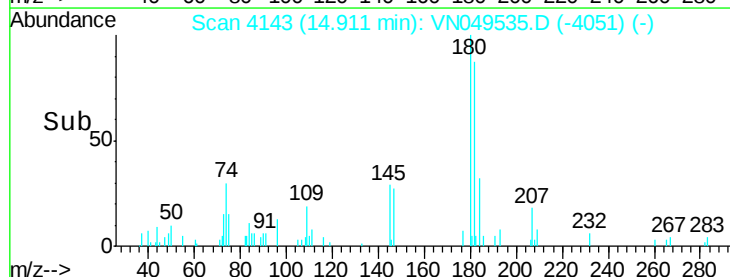
Abundance Ion 179.80 (179.50 to 180.50): VN049263.D (-4129) (-)

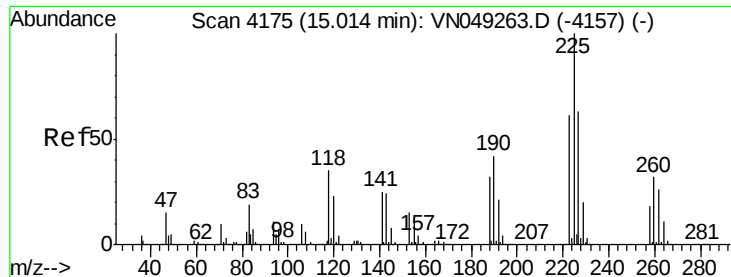
Ion 181.80 (181.50 to 182.50): VN049263.D (-4129) (-)

Ion 144.80 (144.50 to 145.50): VN049263.D (-4129) (-)



Time-->





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

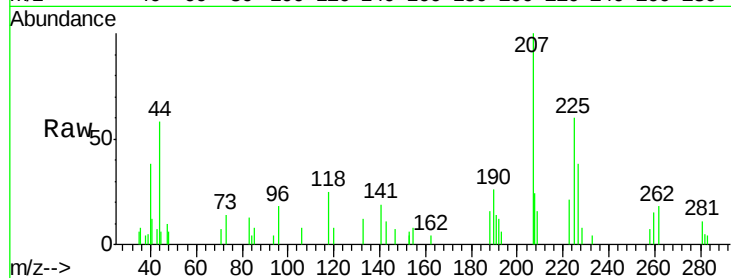
Tot Ion:225 Resp: 3565

Ion Ratio Lower Upper

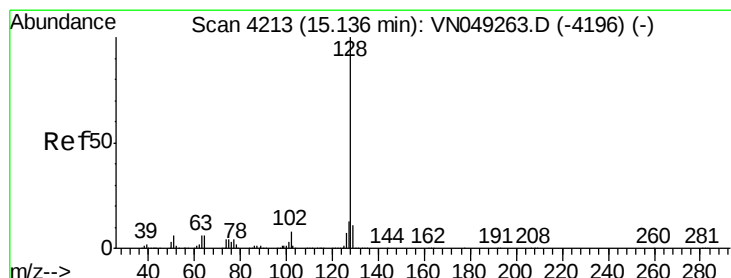
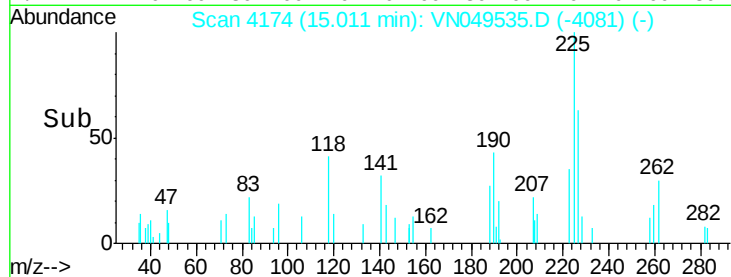
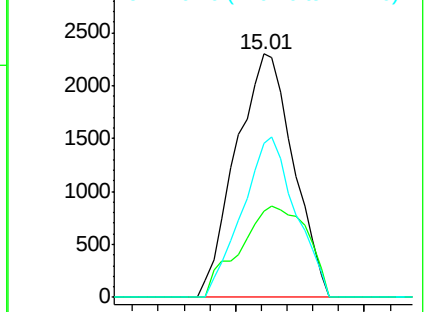
225 100

223 43.8 32.1 96.3

227 61.1 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.68 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

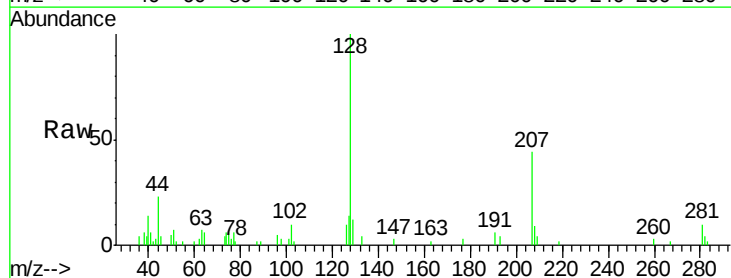
Tgt Ion:128 Resp: 16743

Ion Ratio Lower Upper

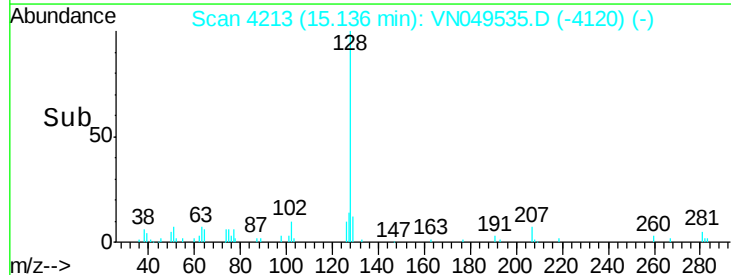
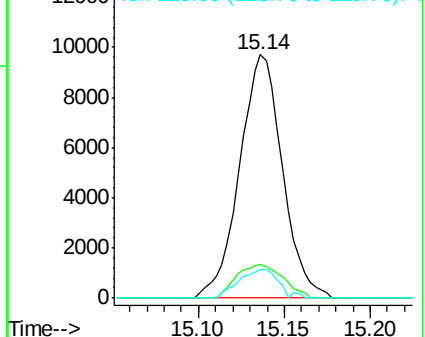
128 100

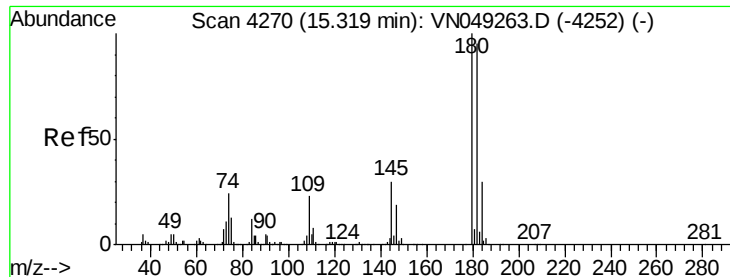
127 15.0 10.6 16.0

129 11.0 8.5 12.7



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





#96

1,2,3-Trichlorobenzene

Concen: 4.86 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049535.D

Acq: 26 Jun 2018 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#12

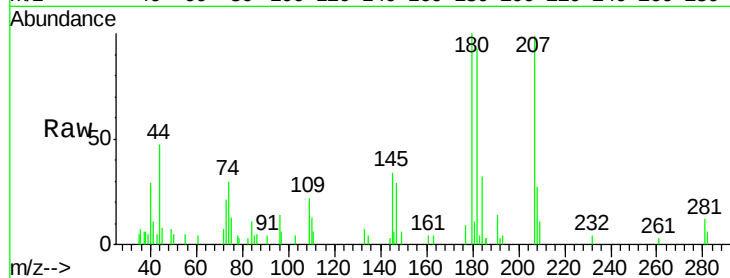
Tot Ion:180 Resp: 9517

Ion Ratio Lower Upper

180 100

182 88.4 47.3 141.8

145 27.3 15.6 46.7



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

