

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052385.D
 Acq On : 19 Nov 2018 15:20
 Operator : MD\SY
 Sample : PB114846ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#01

Quant Time: Nov 20 07:12:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	281397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	467954	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	400791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136490	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	205558	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
35) Dibromofluoromethane	7.59	113	158247	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
50) Toluene-d8	10.09	98	595030	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.40	95	176198	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	

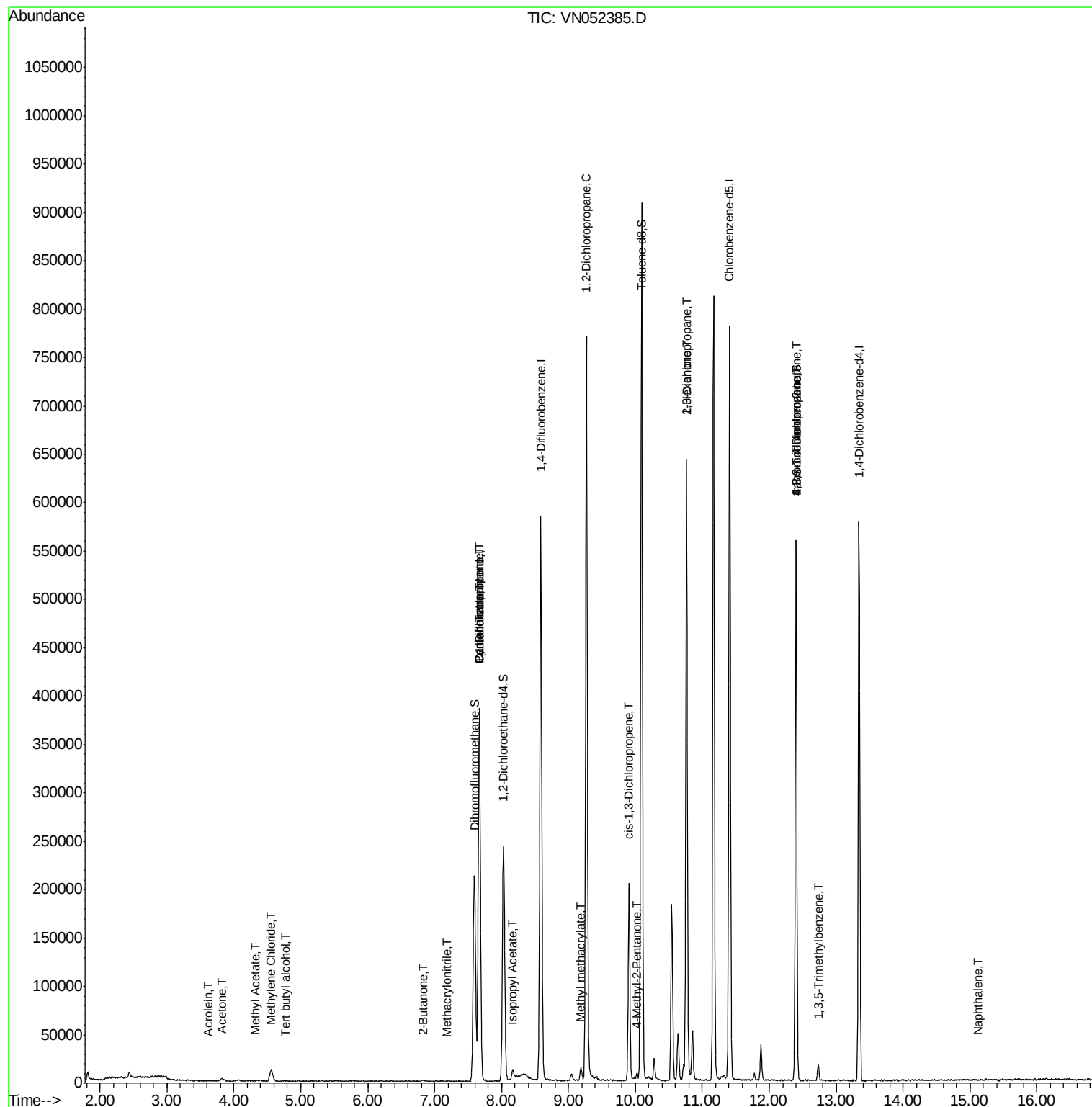
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	63	0.300	ug/l #	72
13) Acrolein	3.61	56	30	21.857	ug/l #	14
16) Acetone	3.82	43	4748	4.339	ug/l #	87
18) Methyl Acetate	4.32	43	654	0.643	ug/l #	57
20) Methylene Chloride	4.56	84	7292	1.511	ug/l #	86
25) 2-Butanone	6.82	43	372	0.242	ug/l #	52
31) Cyclohexane	7.67	56	8289	0.318	ug/l #	21
36) 1,1-Dichloropropene	7.66	75	27291	5.819	ug/l #	50
38) Carbon Tetrachloride	7.67	117	30102	6.986	ug/l #	14
41) Methacrylonitrile	7.18	41	32	3.711	ug/l #	100
43) Isopropyl Acetate	8.17	43	15728	2.394	ug/l	95
45) 1,2-Dichloropropane	9.26	63	825	0.217	ug/l #	44
48) Methyl methacrylate	9.18	41	5318	1.596	ug/l #	39
51) 4-Methyl-2-Pentanone	10.02	43	5096	1.541	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	30592	5.890	ug/l #	74
57) 1,3-Dichloropropane	10.76	76	6244	1.213	ug/l #	43
59) 2-Hexanone	10.76	43	109360	48.087	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	99734	43.063	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8420	0.965	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	99734	139.671	ug/l #	5
95) Naphthalene	15.13	128	110	2.626	ug/l #	69

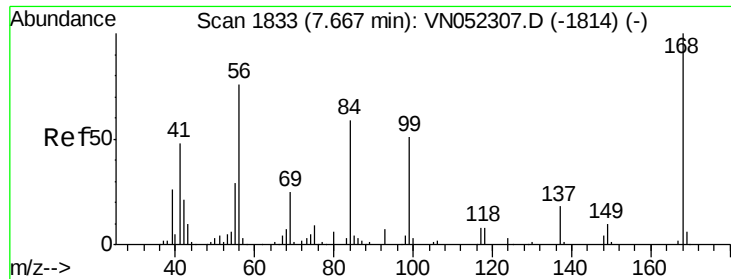
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

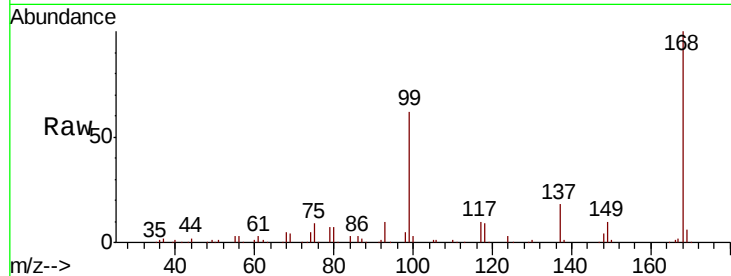
PB114846ZHE#01

Tot Ion:168 Resp: 281397

Ion Ratio Lower Upper

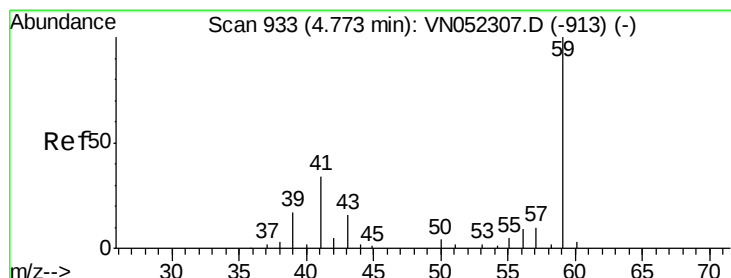
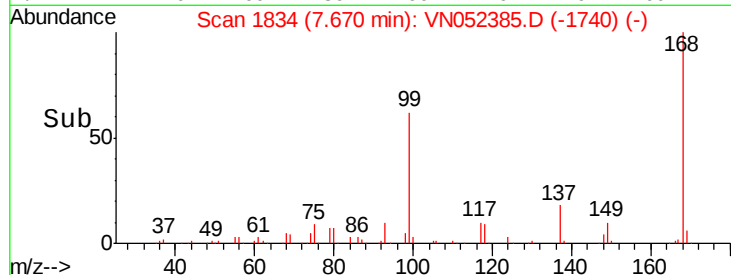
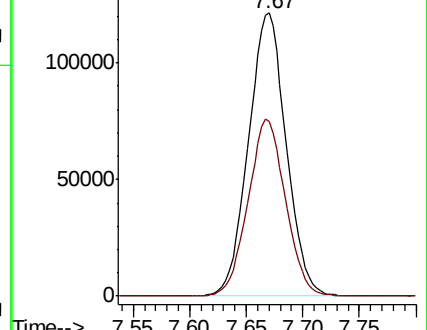
168 100

99 61.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)



#11

Tert butyl alcohol

Concen: 0.300 ug/l

RT: 4.77 min Scan# 931

Delta R.T. -0.01 min

Lab File: VN052385.D

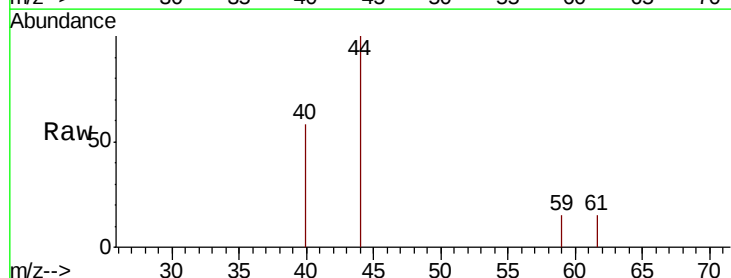
Acq: 19 Nov 2018 15:20

Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

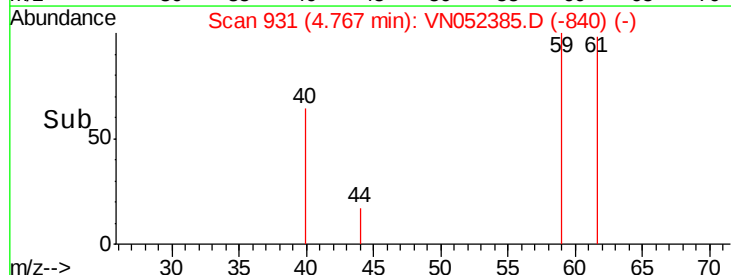
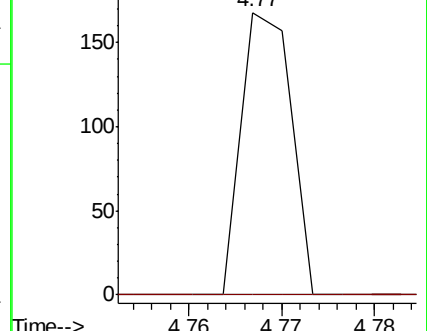
59 100

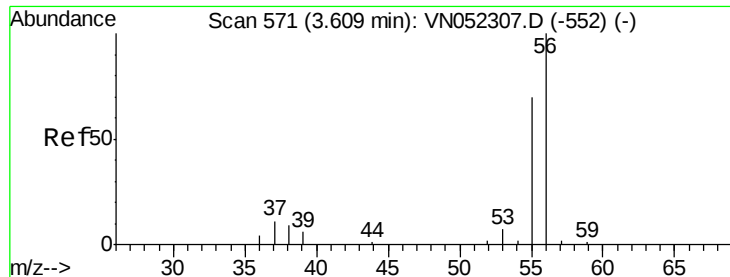
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)





#13

Acrolein

Concen: 21.857 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

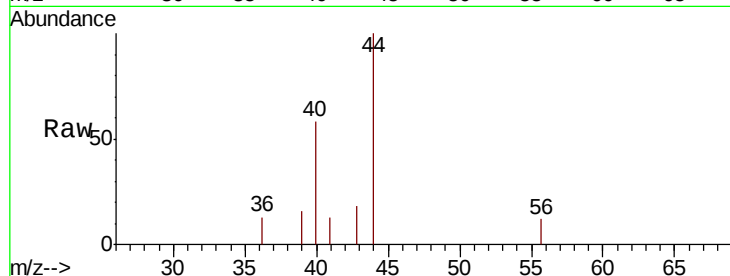
PB114846ZHE#01

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

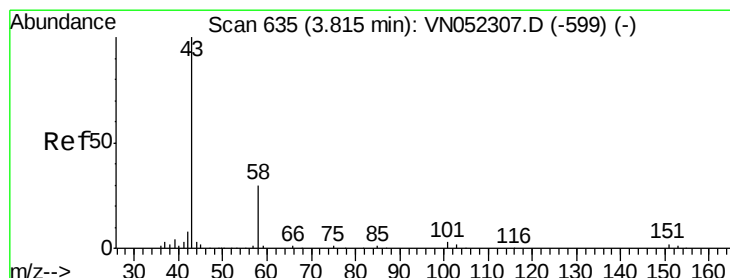
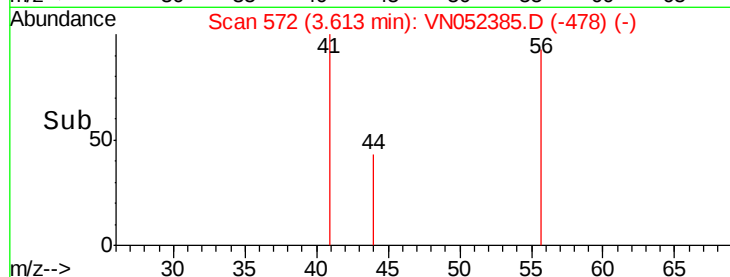
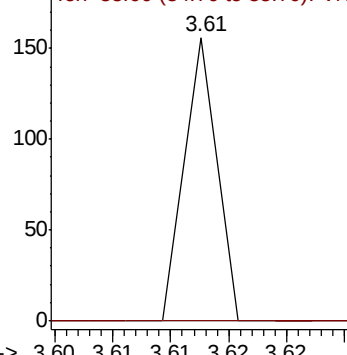
56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 4.339 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052385.D

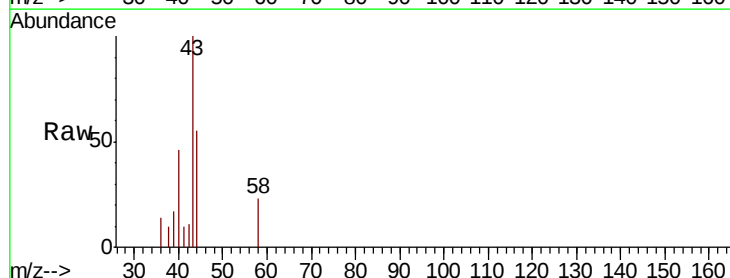
Acq: 19 Nov 2018 15:20

Tgt Ion: 43 Resp: 4748

Ion Ratio Lower Upper

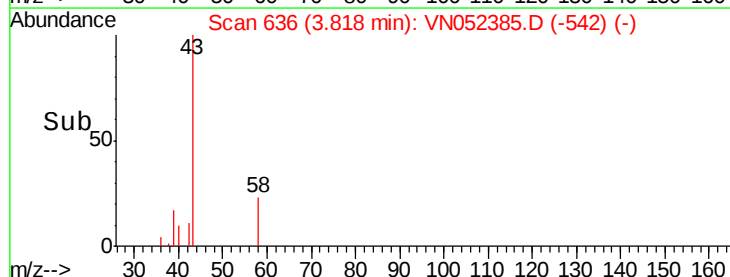
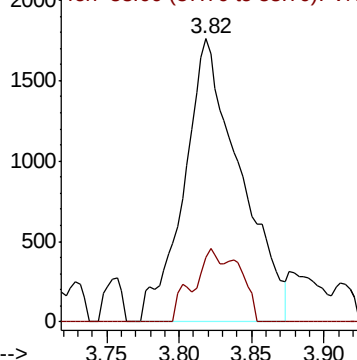
43 100

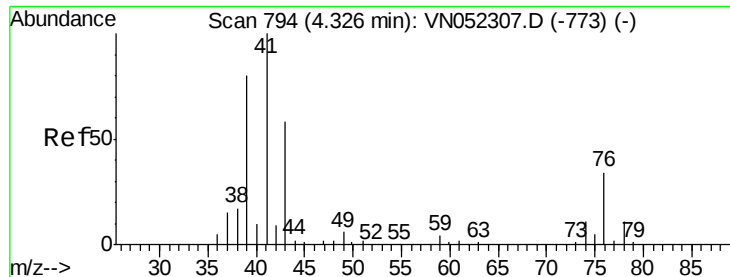
58 23.0 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

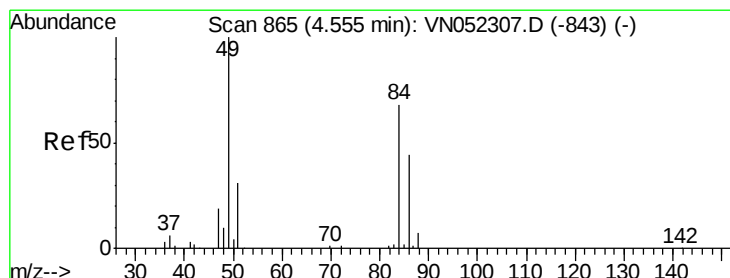
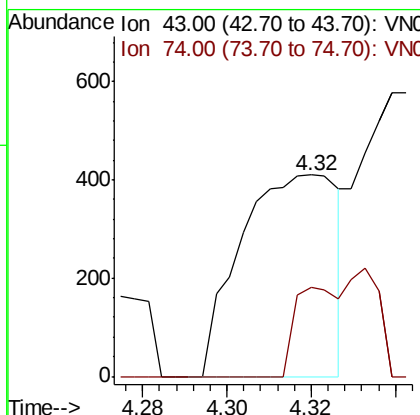
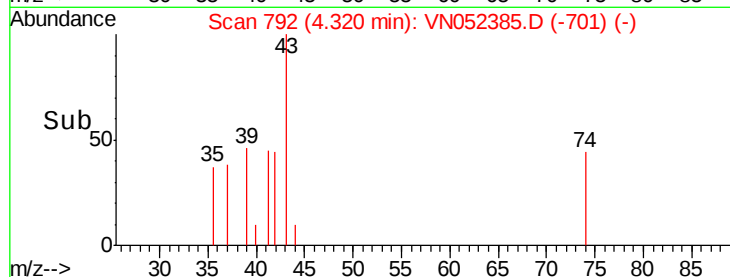
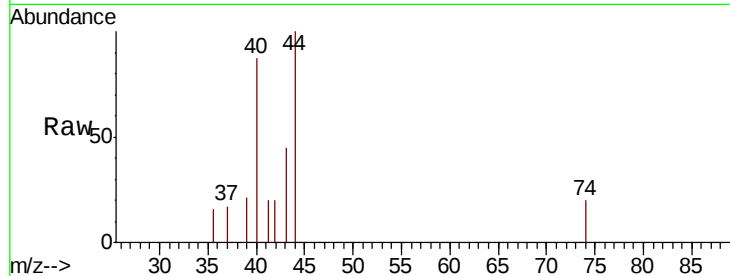




#18
Methyl Acetate
Concen: 0.643 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.01 min
Lab File: VN052385.D
Acq: 19 Nov 2018 15:20

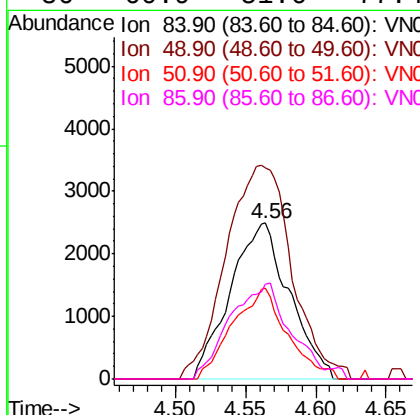
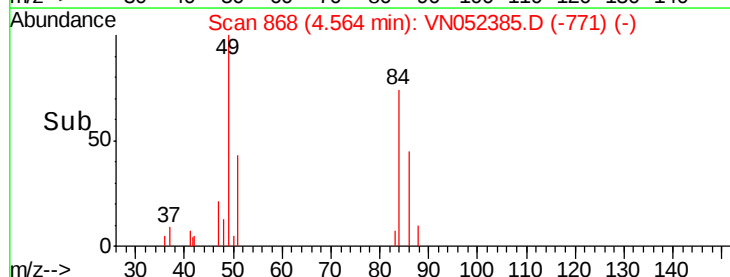
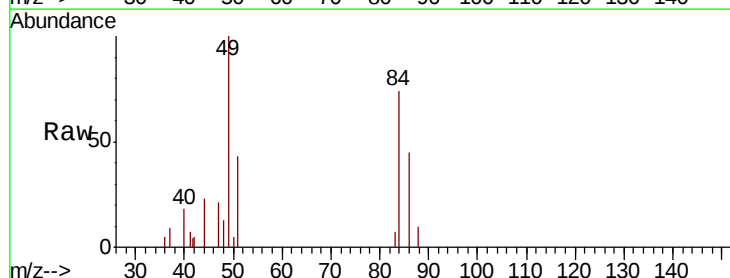
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#01

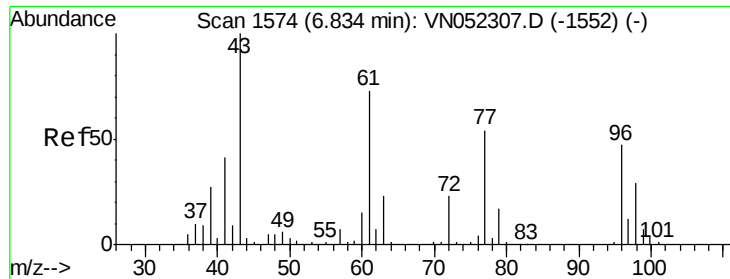
Tot Ion: 43 Resp: 654
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#



#20
Methylene Chloride
Concen: 1.511 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN052385.D
Acq: 19 Nov 2018 15:20

Tgt Ion: 84 Resp: 7292
Ion Ratio Lower Upper
84 100
49 127.0 118.2 177.2
51 58.0 36.1 54.1#
86 60.9 51.6 77.4





#25

2-Butanone

Concen: 0.242 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

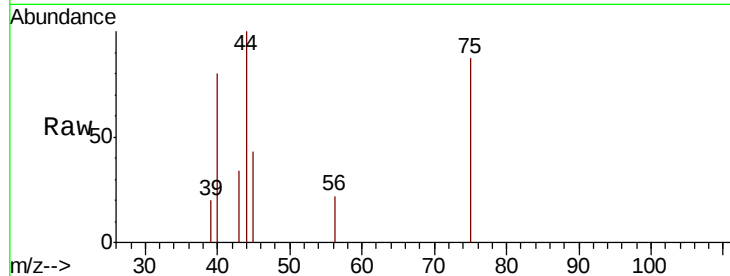
PB114846ZHE#01

Tot Ion: 43 Resp: 372

Ion Ratio Lower Upper

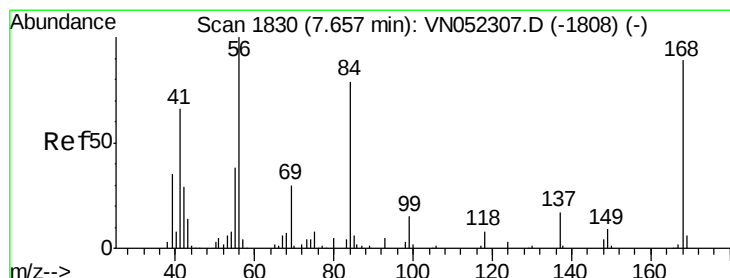
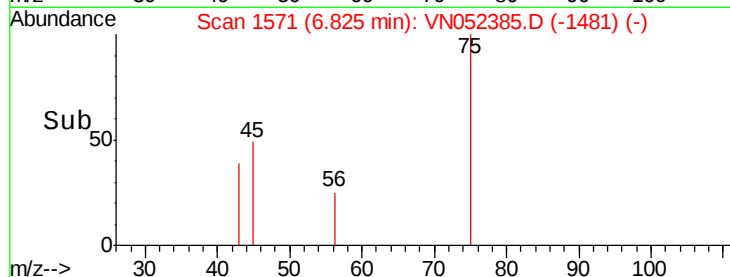
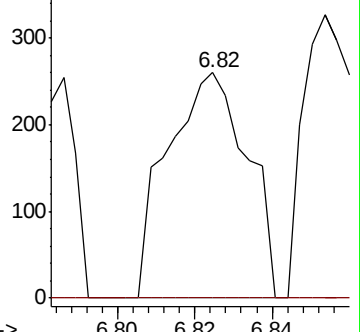
43 100

72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.318 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

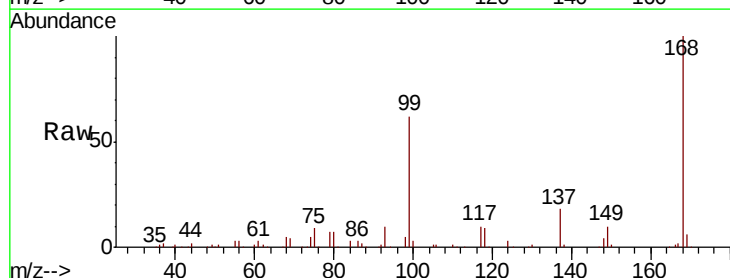
Tgt Ion: 56 Resp: 8289

Ion Ratio Lower Upper

56 100

69 137.1 23.8 35.8#

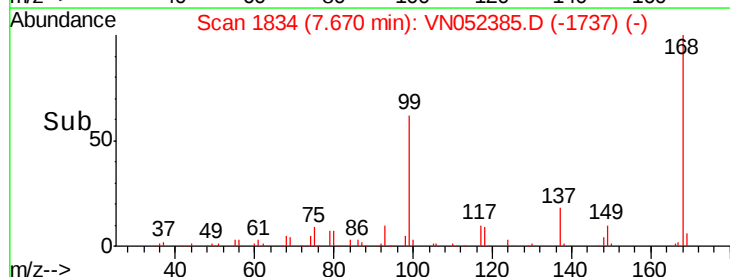
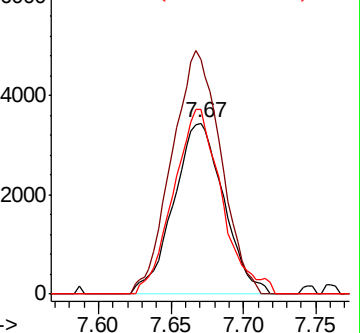
84 108.3 63.0 94.6#

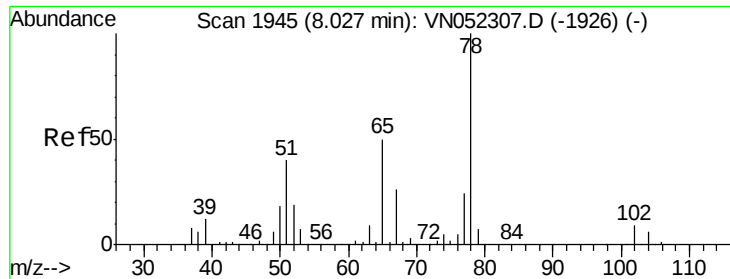


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

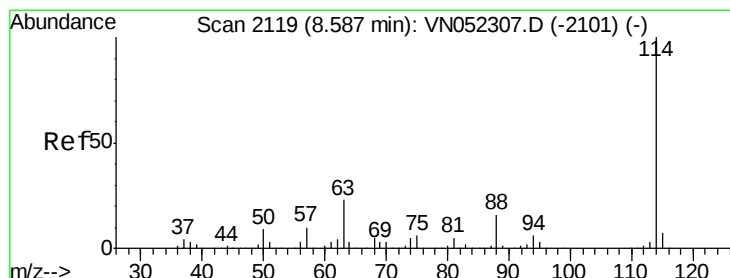
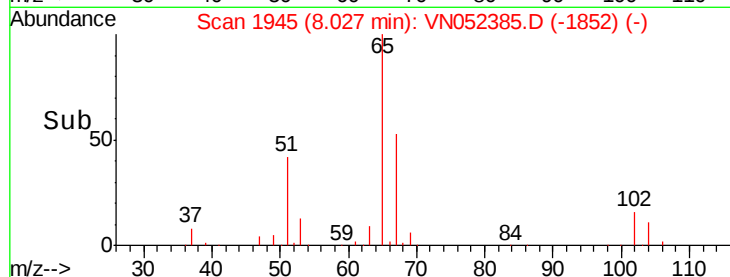
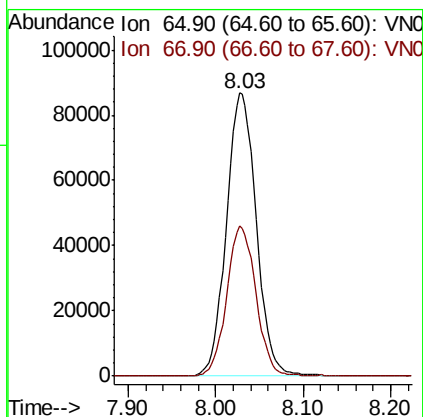
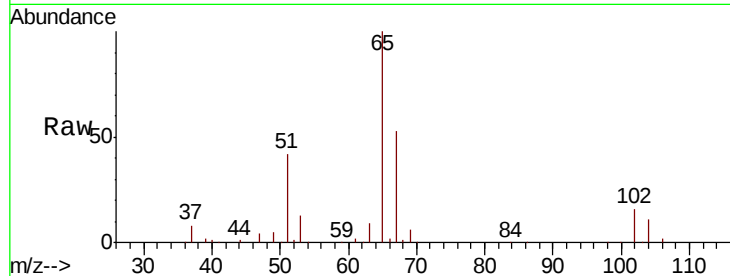




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052385.D
 Acq: 19 Nov 2018 15:20

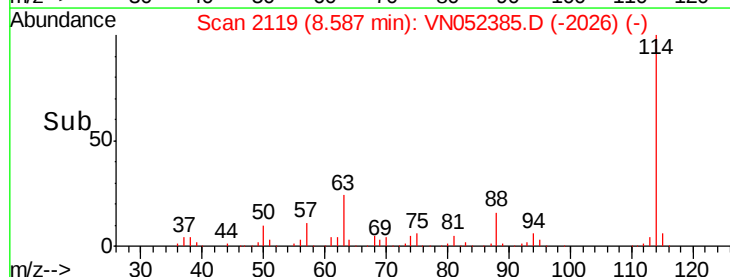
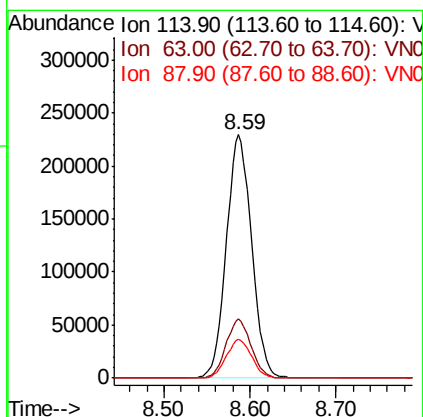
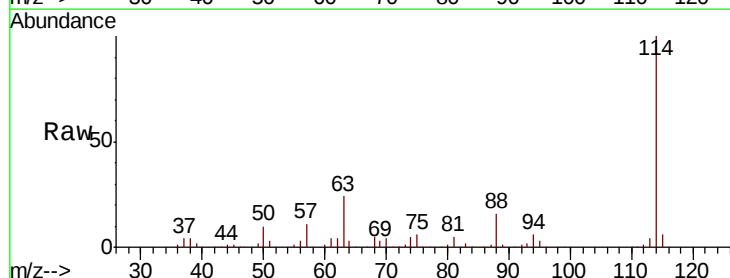
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 PB114846ZHE#01

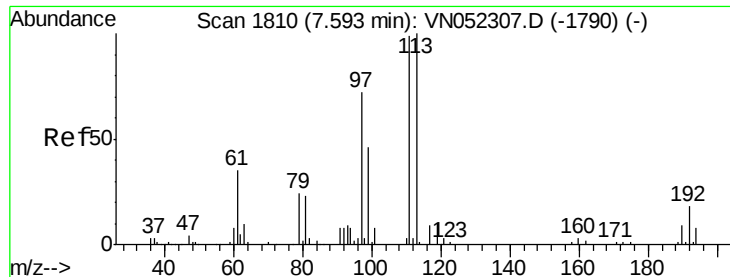
Tot Ion: 65 Resp: 205558
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052385.D
 Acq: 19 Nov 2018 15:20

Tgt Ion: 114 Resp: 467954
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 45.4
 88 15.9 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#01

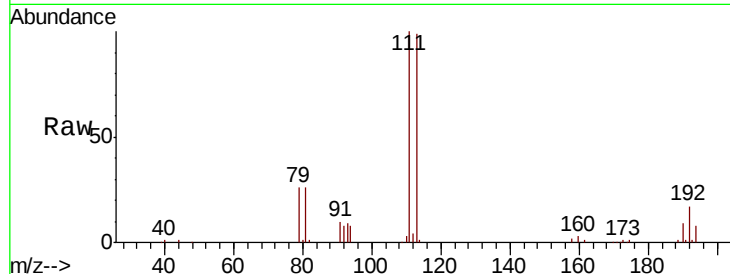
Tot Ion:113 Resp: 158247

Ion Ratio Lower Upper

113 100

111 99.8 81.0 121.6

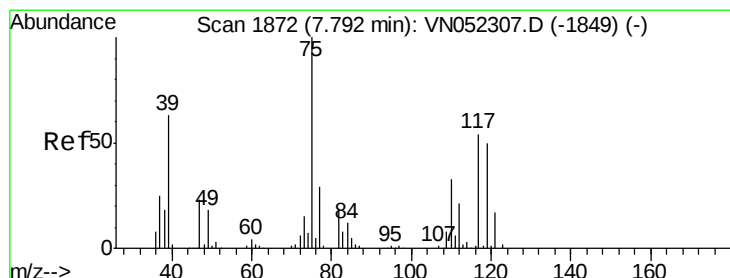
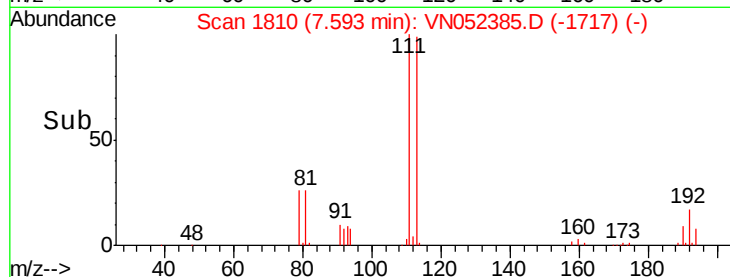
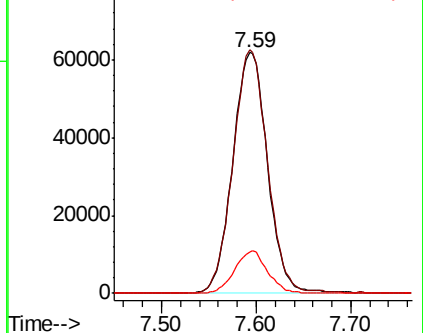
192 16.5 13.8 20.6



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: 5.819 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

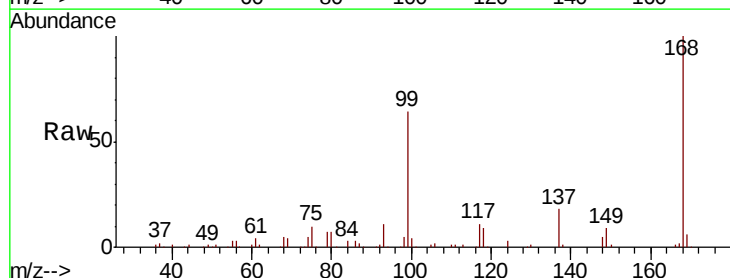
Tgt Ion: 75 Resp: 27291

Ion Ratio Lower Upper

75 100

110 7.9 16.5 49.5#

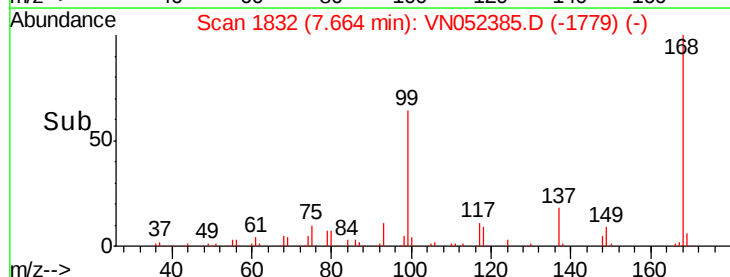
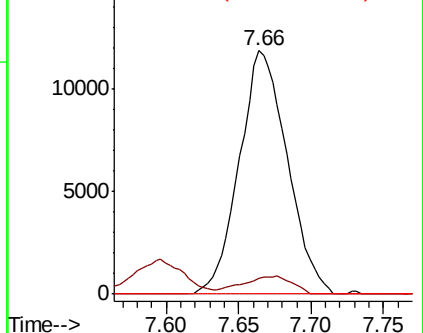
77 0.0 24.2 36.2#

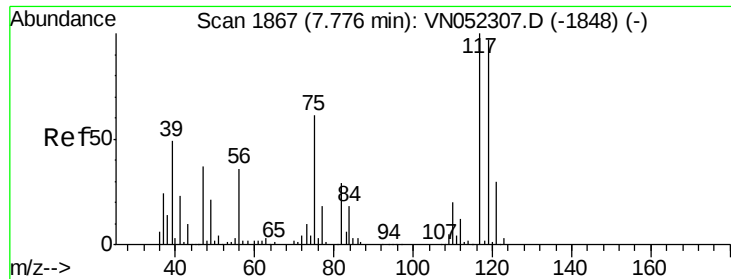


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.986 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#01

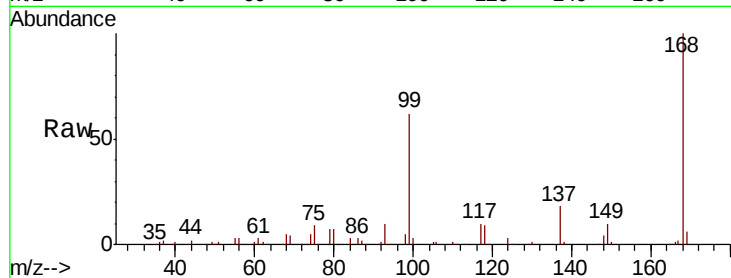
Tot Ion:117 Resp: 30102

Ion Ratio Lower Upper

117 100

119 3.5 77.4 116.0#

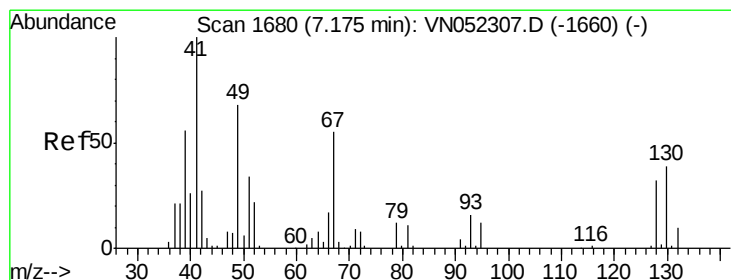
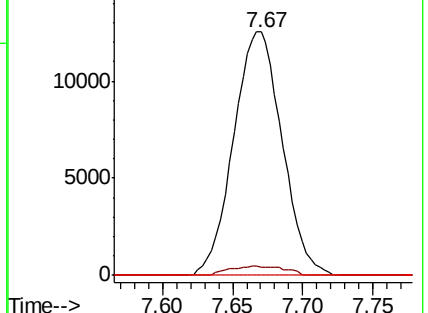
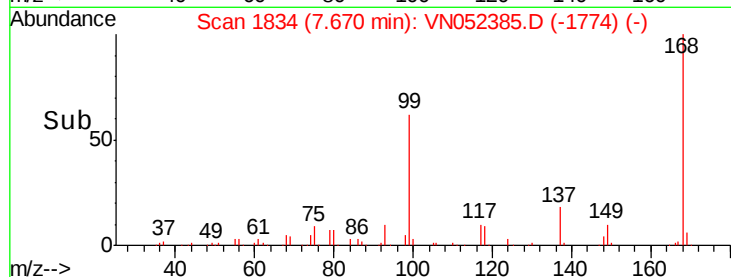
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.711 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Tgt Ion: 41 Resp: 32

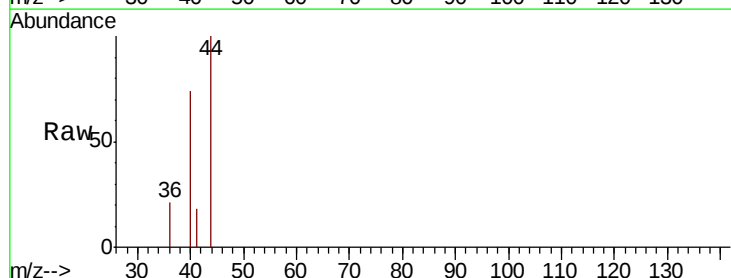
Ion Ratio Lower Upper

41 100

39 528.1 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

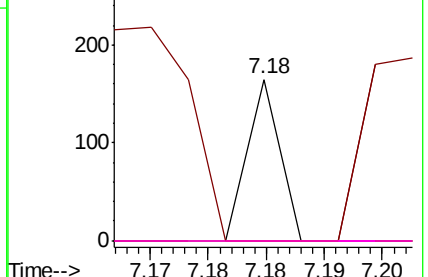
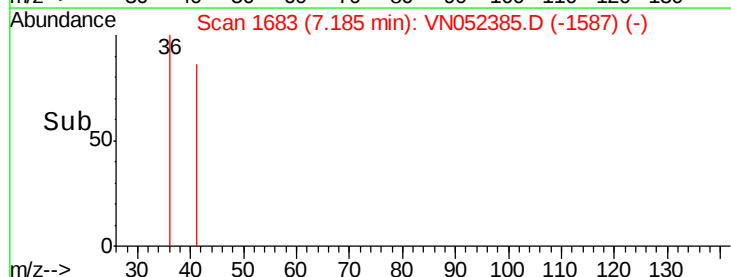


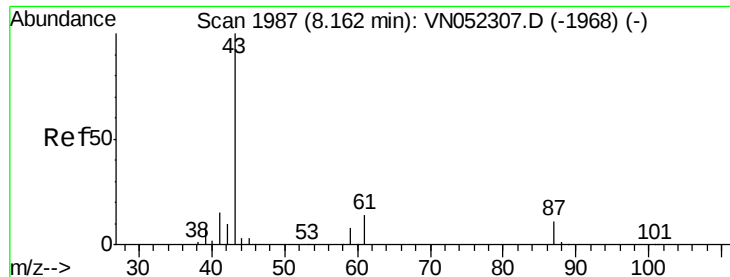
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.394 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#01

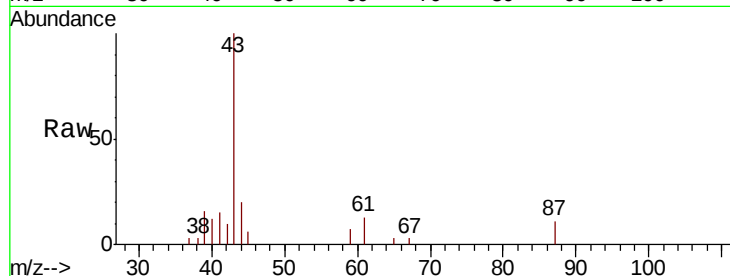
Tot Ion: 43 Resp: 15728

Ion Ratio Lower Upper

43 100

61 12.4 12.0 18.0

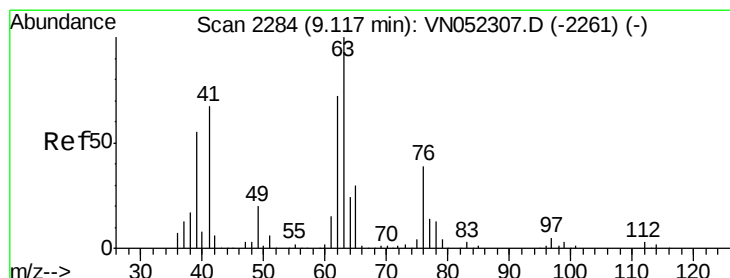
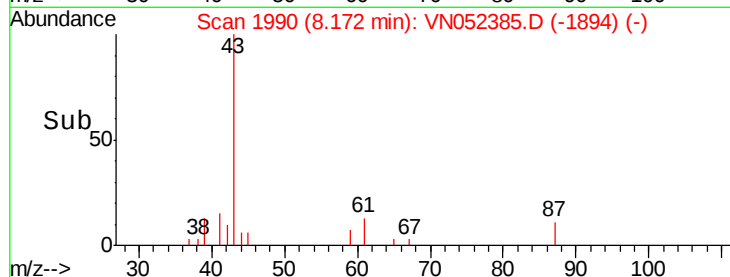
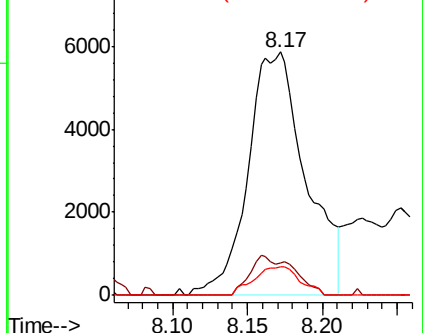
87 9.4 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.217 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN052385.D

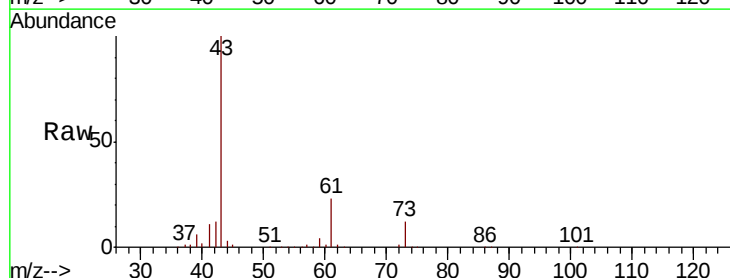
Acq: 19 Nov 2018 15:20

Tgt Ion: 63 Resp: 825

Ion Ratio Lower Upper

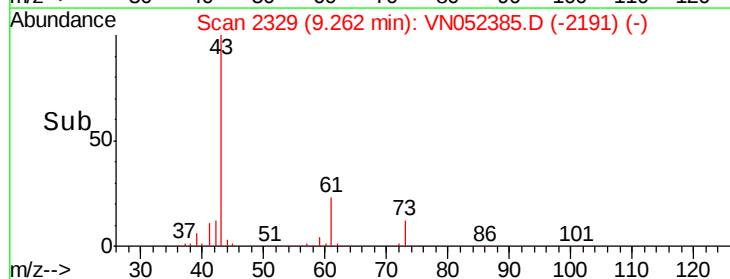
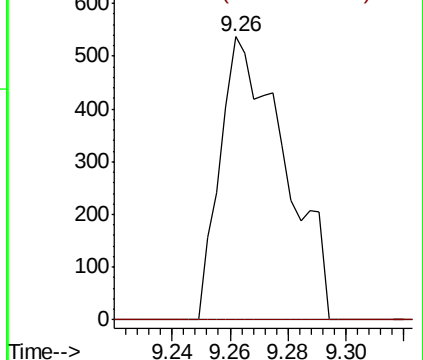
63 100

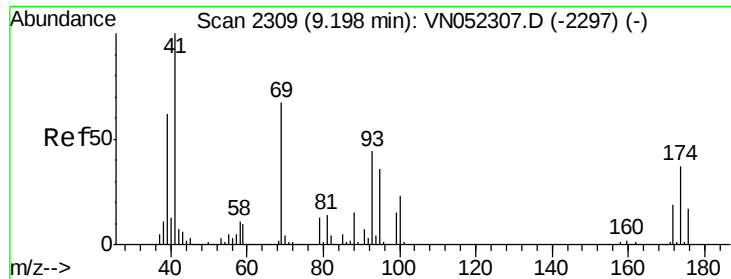
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

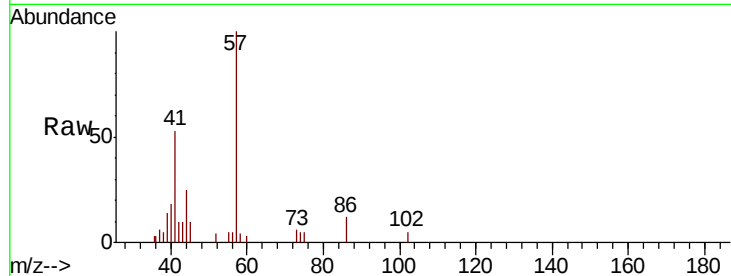




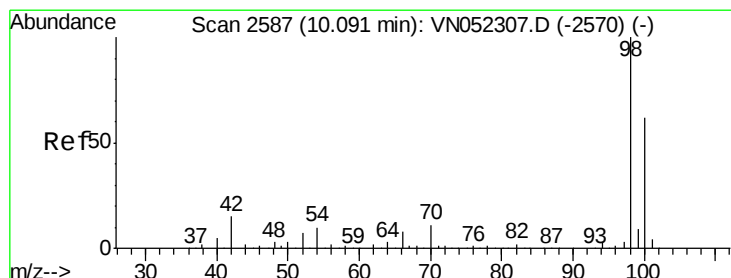
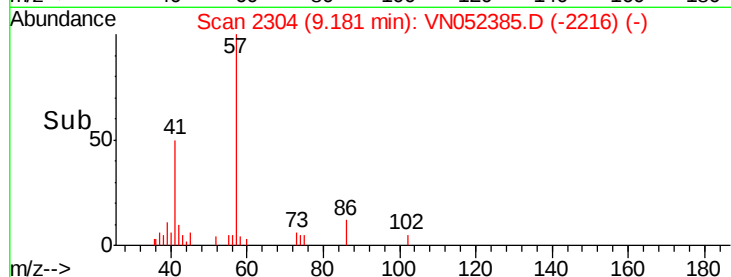
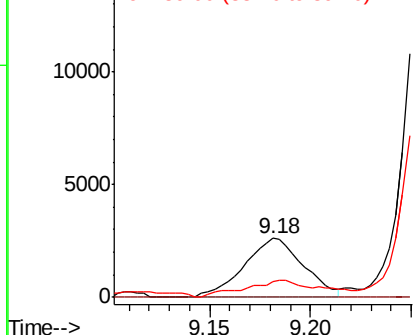
#48
Methyl methacrylate
Concen: 1.596 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052385.D
Acq: 19 Nov 2018 15:20

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#01

Tot Ion: 41 Resp: 5318
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 38.2 52.5 78.7#

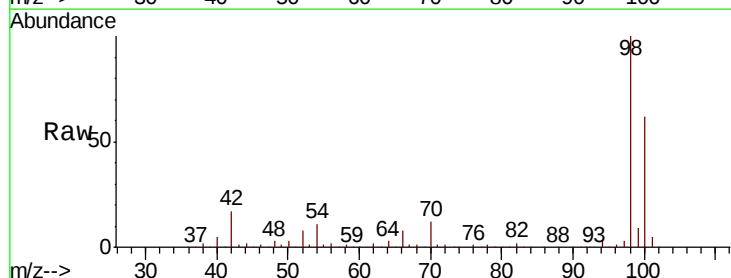


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

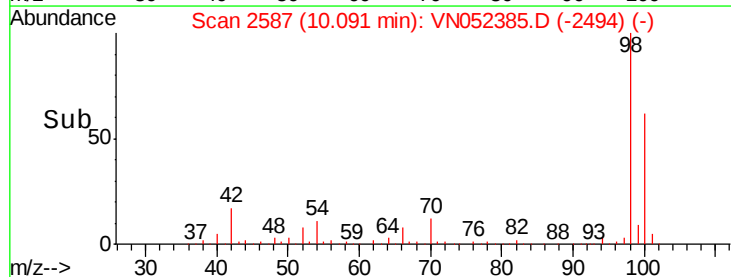
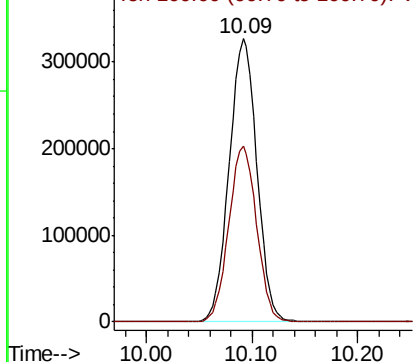


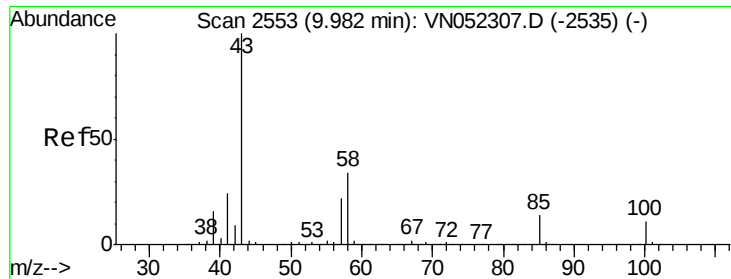
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052385.D
Acq: 19 Nov 2018 15:20

Tgt Ion: 98 Resp: 595030
Ion Ratio Lower Upper
98 100
100 62.4 49.5 74.3



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: 1.541 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

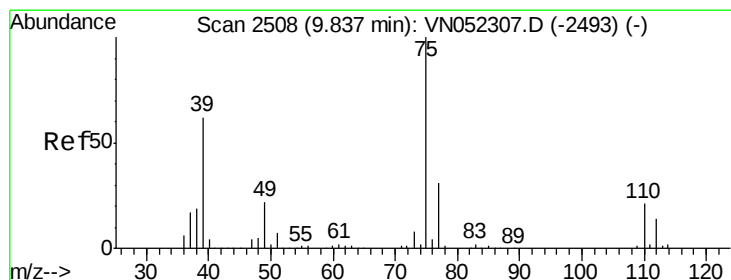
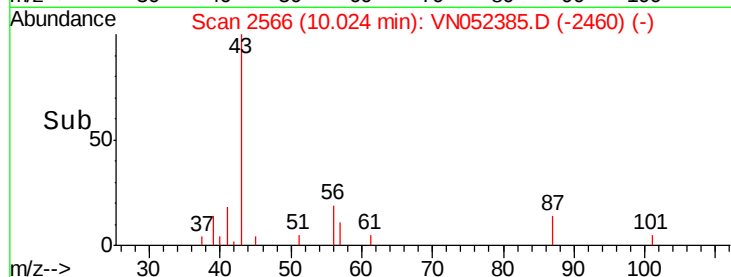
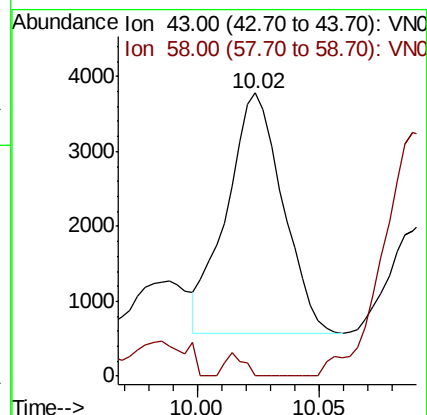
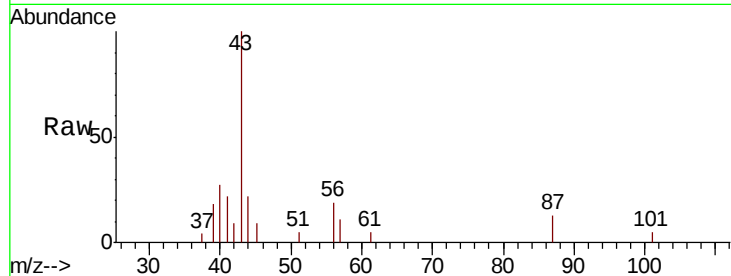
PB114846ZHE#01

Tot Ion: 43 Resp: 5096

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.890 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

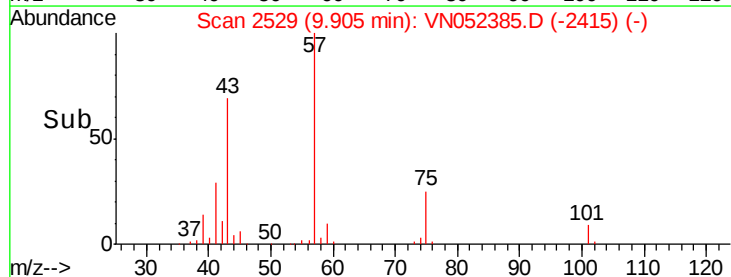
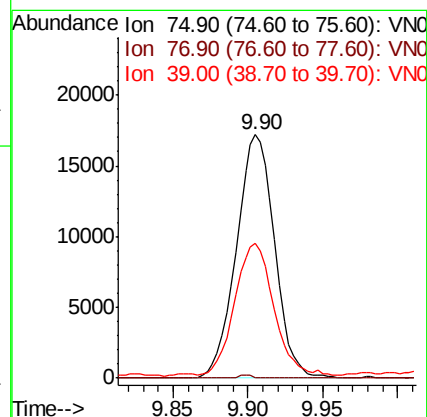
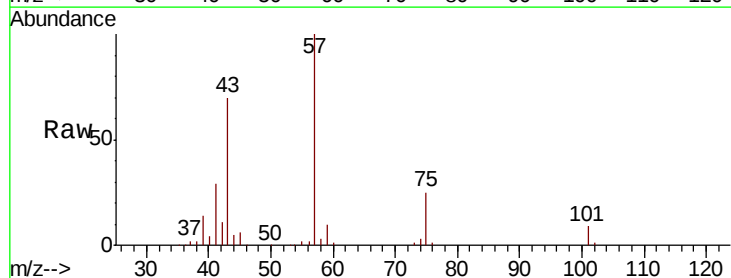
Tgt Ion: 75 Resp: 30592

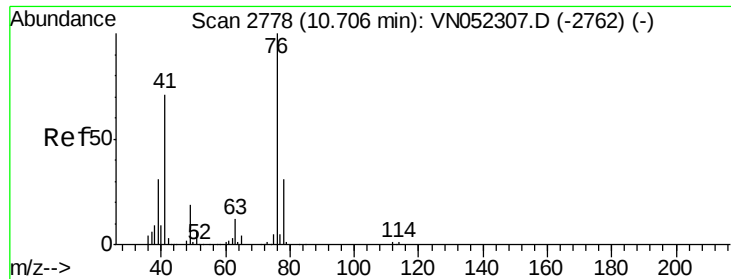
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 53.9 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.213 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

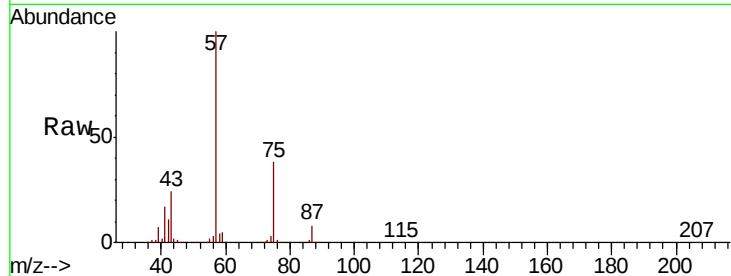
PB114846ZHE#01

Tot Ion: 76 Resp: 6244

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

4000

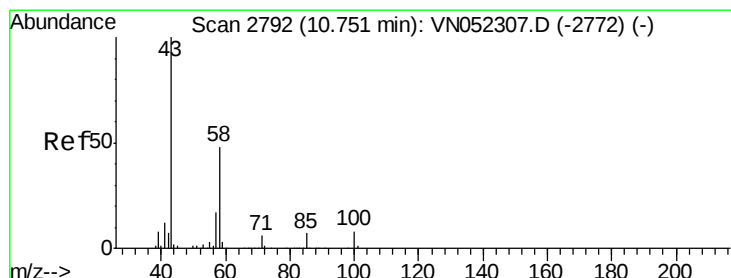
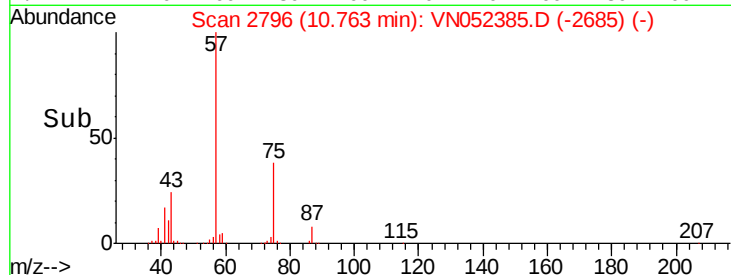
3000

2000

1000

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 48.087 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052385.D

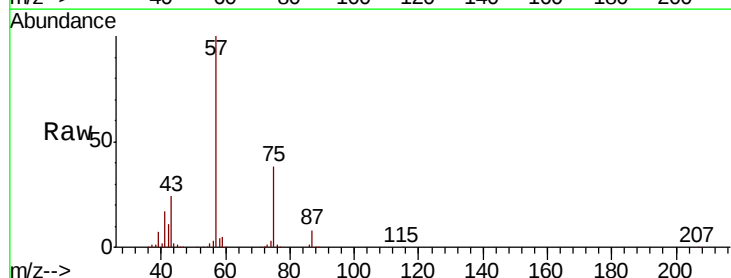
Acq: 19 Nov 2018 15:20

Tgt Ion: 43 Resp: 109360

Ion Ratio Lower Upper

43 100

58 16.3 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

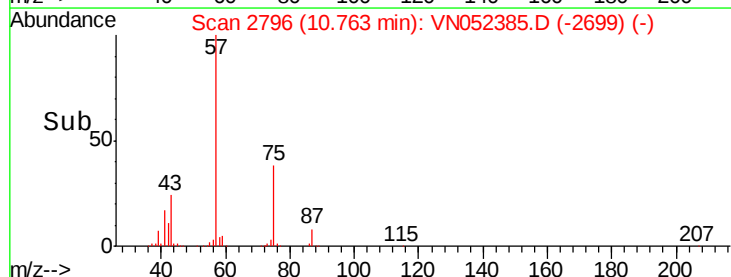
60000

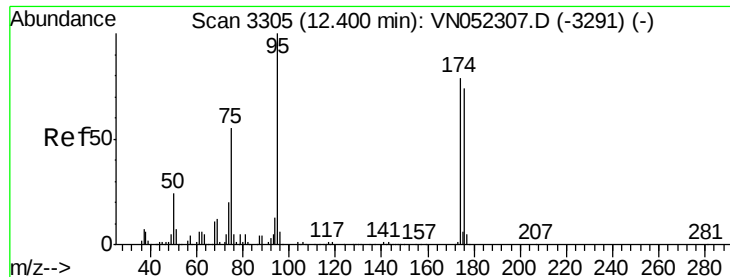
40000

20000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#01

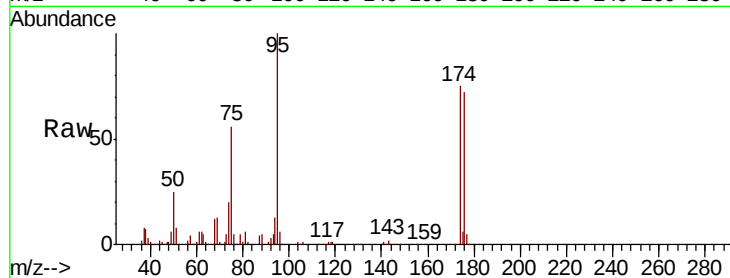
Tot Ion: 95 Resp: 176198

Ion Ratio Lower Upper

95 100

174 75.8 0.0 156.0

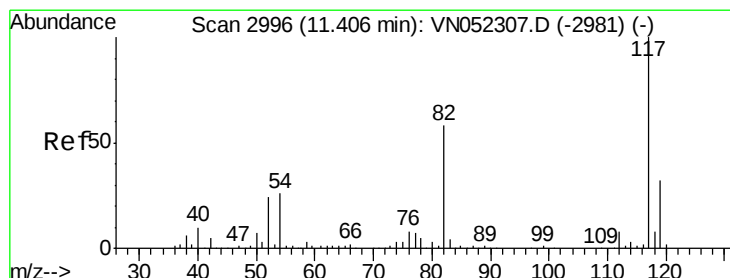
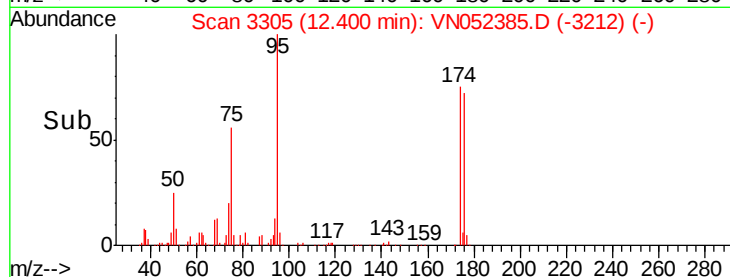
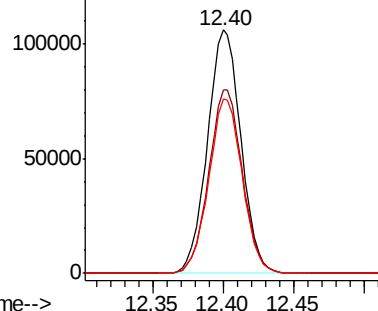
176 71.8 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052385.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052385.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052385.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

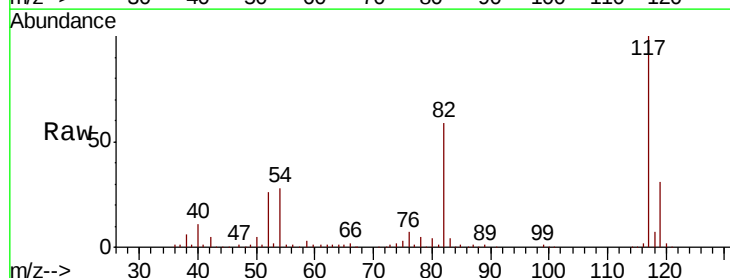
Tgt Ion: 117 Resp: 400791

Ion Ratio Lower Upper

117 100

82 58.9 46.5 69.7

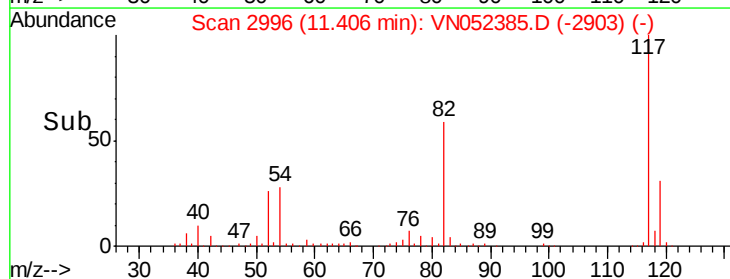
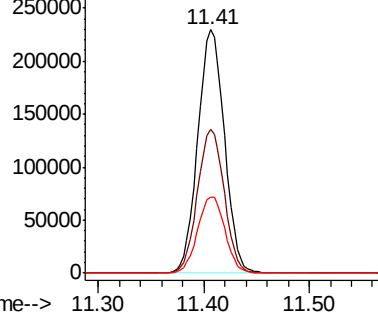
119 31.4 25.7 38.5

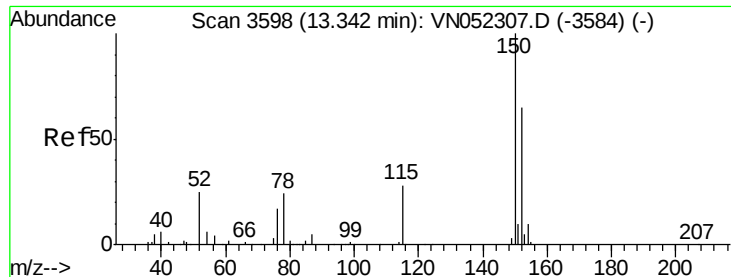


Abundance Ion 116.90 (116.60 to 117.60): VN052385.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052385.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052385.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#01

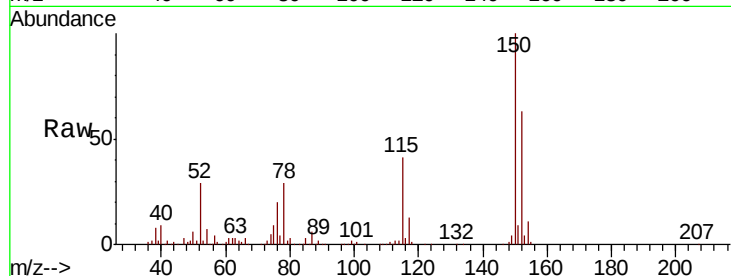
Tot Ion:152 Resp: 136490

Ion Ratio Lower Upper

152 100

115 61.8 30.3 91.0

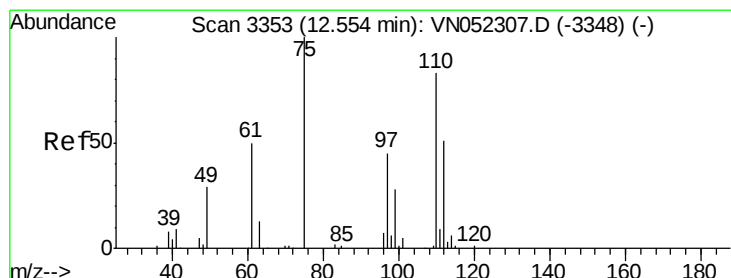
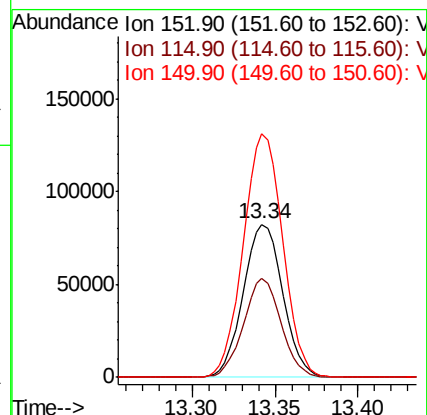
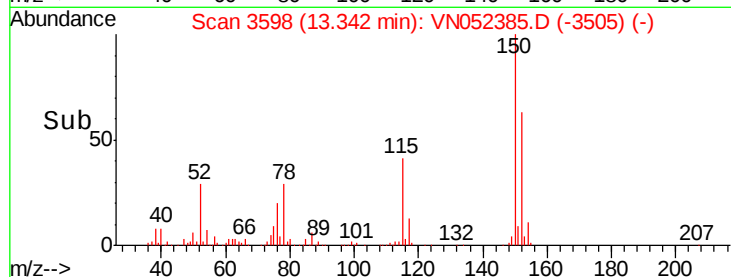
150 158.9 0.0 348.2



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: 43.063 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052385.D

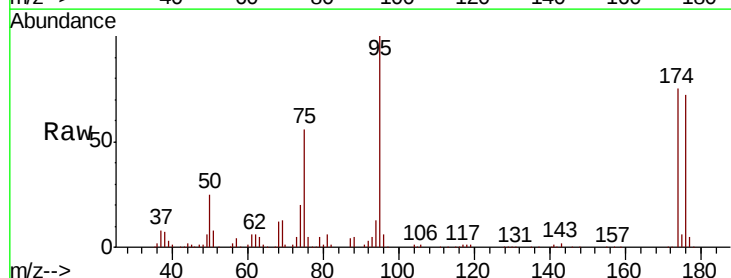
Acq: 19 Nov 2018 15:20

Tgt Ion: 75 Resp: 99734

Ion Ratio Lower Upper

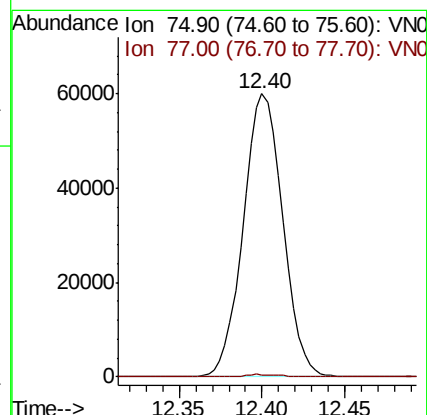
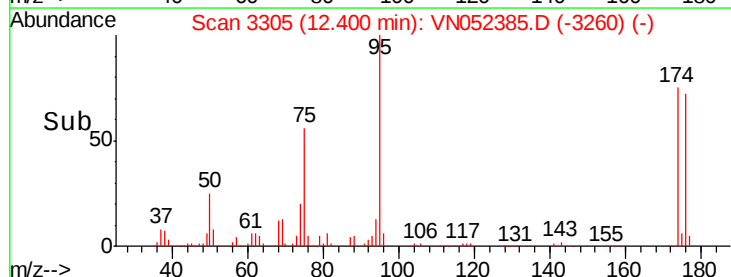
75 100

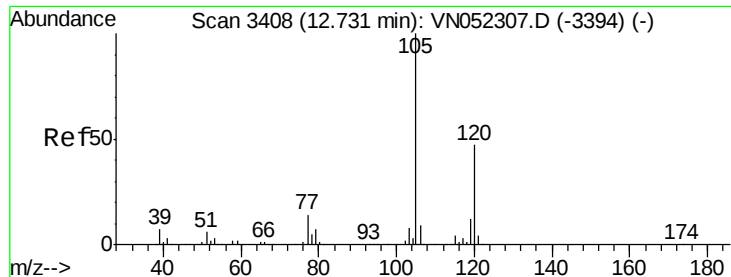
77 0.8 0.0 0.0#



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: 0.965 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

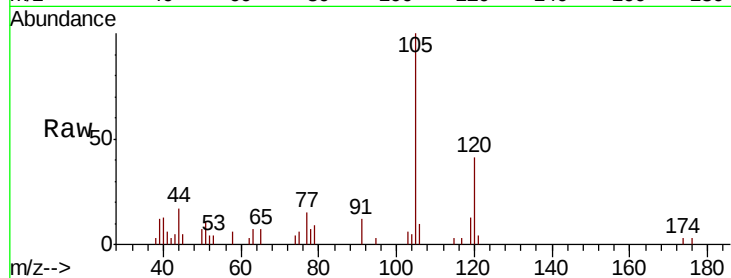
PB114846ZHE#01

Tot Ion:105 Resp: 8420

Ion Ratio Lower Upper

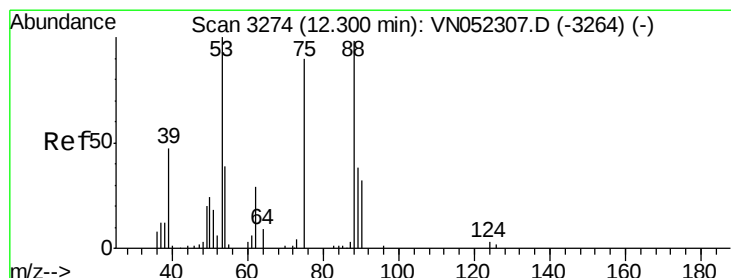
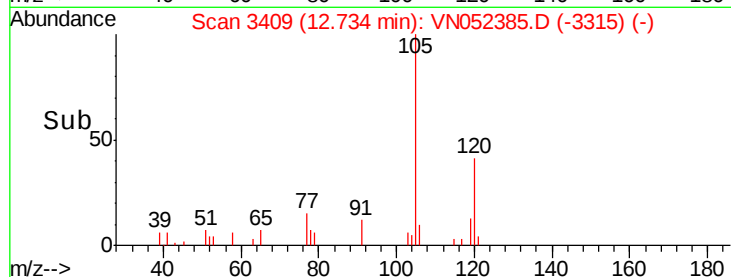
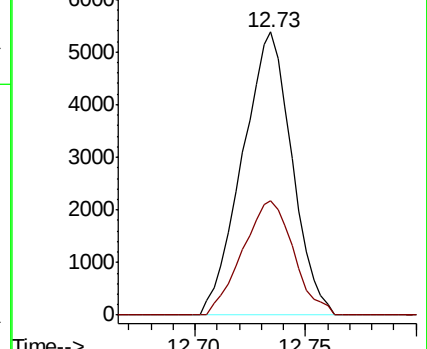
105 100

120 41.5 23.7 71.1



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: 139.671 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

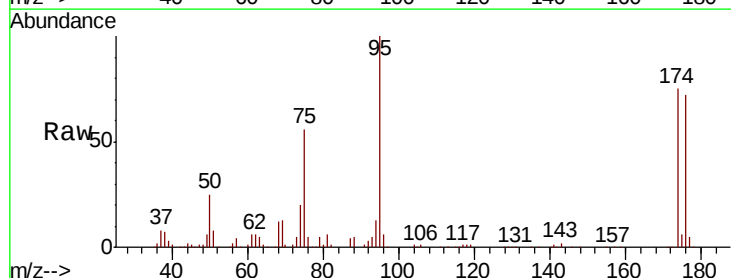
Tgt Ion: 75 Resp: 99734

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

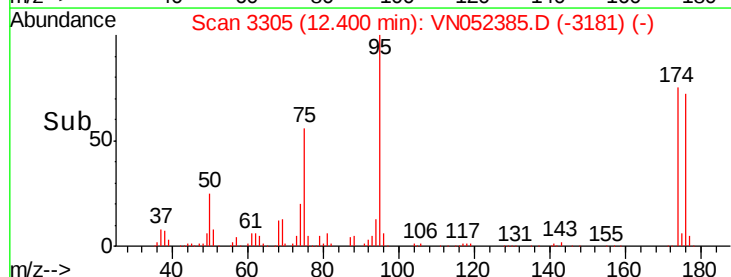
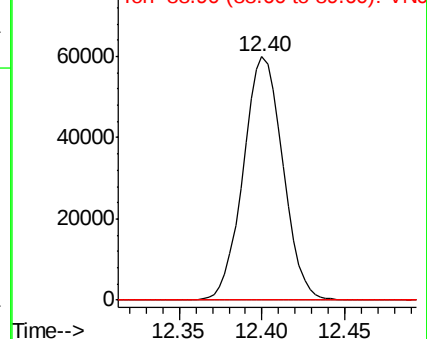
89 0.0 35.4 53.0#

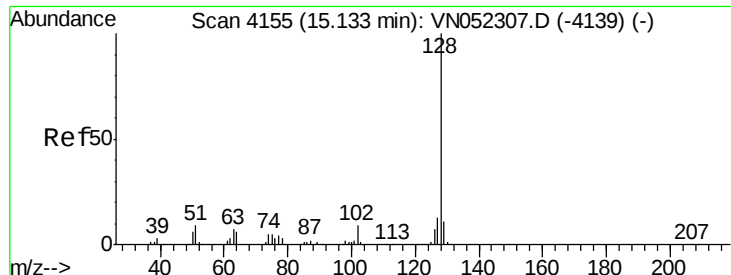


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.626 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN052385.D

Acq: 19 Nov 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#01

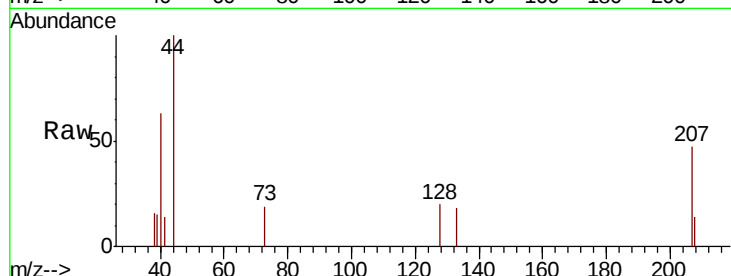
Tot Ion:128 Resp: 110

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

