

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052386.D
 Acq On : 19 Nov 2018 15:47
 Operator : MD\SY
 Sample : PB114846ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#02

Quant Time: Nov 20 07:12:29 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	293064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	480883	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	406397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	134060	50.00	ug/l	0.00

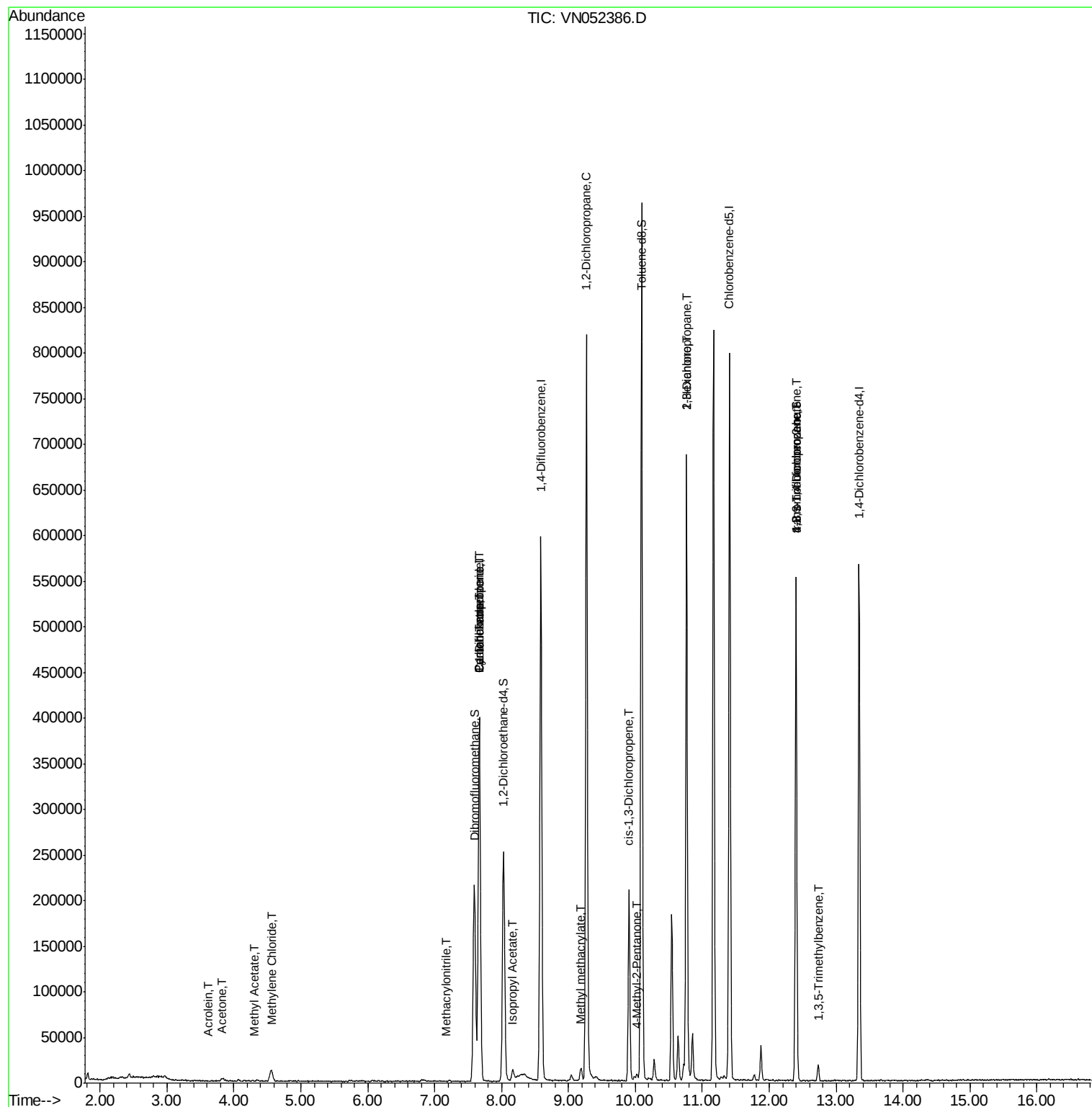
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	213485	51.58	ug/l	0.00
Spiked Amount						
			Recovery	=	103.16%	
35) Dibromofluoromethane	7.59	113	159382	51.39	ug/l	0.00
Spiked Amount						
			Recovery	=	102.78%	
50) Toluene-d8	10.09	98	611989	50.16	ug/l	0.00
Spiked Amount						
			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.40	95	174295	43.42	ug/l	0.00
Spiked Amount						
			Recovery	=	86.84%	

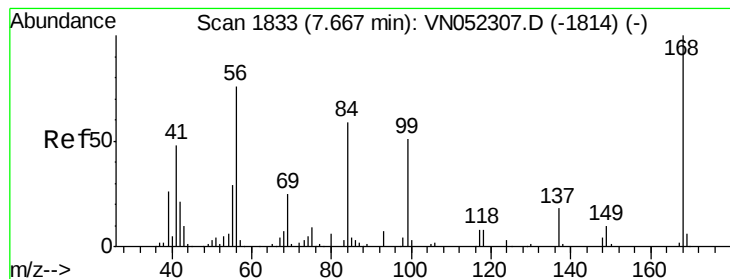
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	31	21.856	ug/l #	66
16) Acetone	3.82	43	5458	4.789	ug/l	100
18) Methyl Acetate	4.30	43	331	0.534	ug/l #	57
20) Methylene Chloride	4.56	84	7634	1.523	ug/l	95
31) Cyclohexane	7.67	56	8873	0.357	ug/l #	29
36) 1,1-Dichloropropene	7.67	75	27091	5.621	ug/l #	52
38) Carbon Tetrachloride	7.67	117	31083	7.019	ug/l #	16
41) Methacrylonitrile	7.17	41	124	3.755	ug/l #	100
43) Isopropyl Acetate	8.17	43	17325	2.567	ug/l	97
45) 1,2-Dichloropropane	9.26	63	1097	0.281	ug/l #	44
48) Methyl methacrylate	9.18	41	5494	1.604	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	5425	1.597	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	30680	5.748	ug/l #	78
57) 1,3-Dichloropropane	10.76	76	6447	1.219	ug/l #	43
59) 2-Hexanone	10.76	43	114409	48.954	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	99217	43.617	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.7					

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

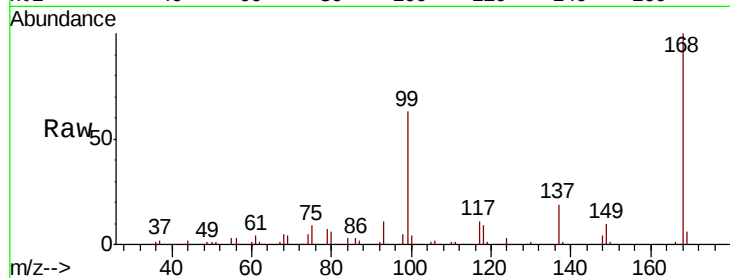
PB114846ZHE#02

Tot Ion:168 Resp: 293064

Ion Ratio Lower Upper

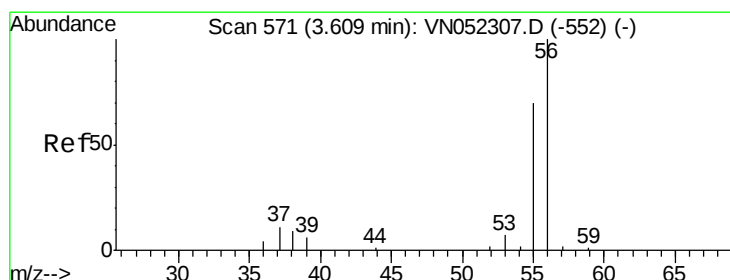
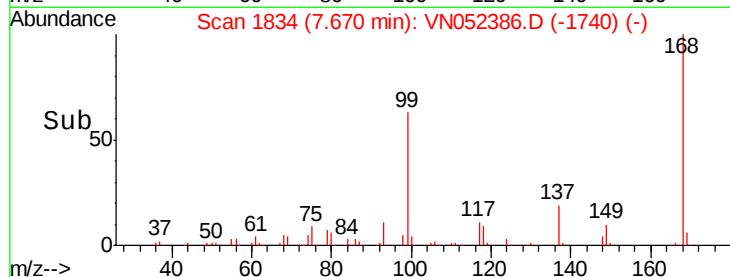
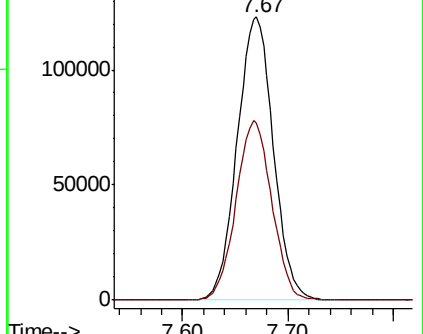
168 100

99 62.4 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 21.856 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052386.D

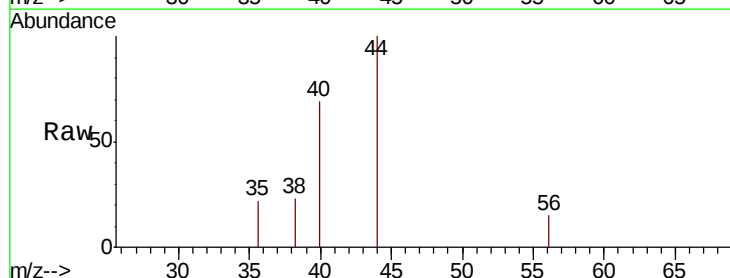
Acq: 19 Nov 2018 15:47

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

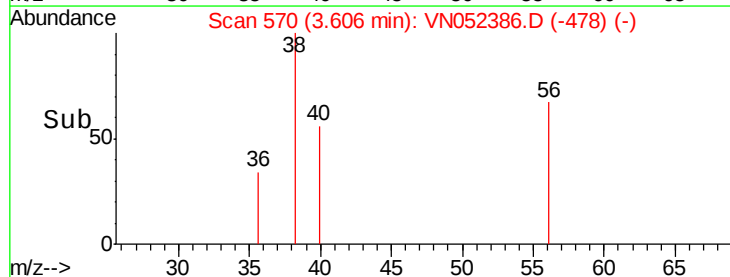
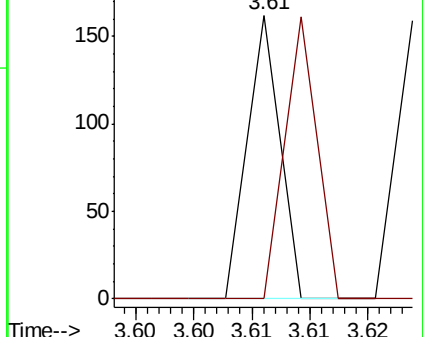
56 100

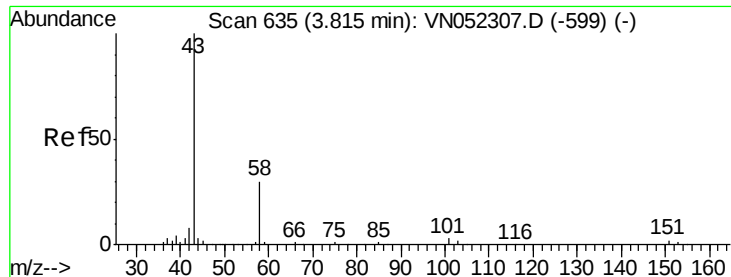
55 100.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: 4.789 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

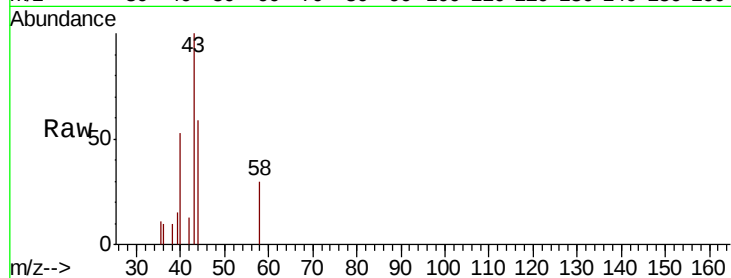
PB114846ZHE#02

Tot Ion: 43 Resp: 5458

Ion Ratio Lower Upper

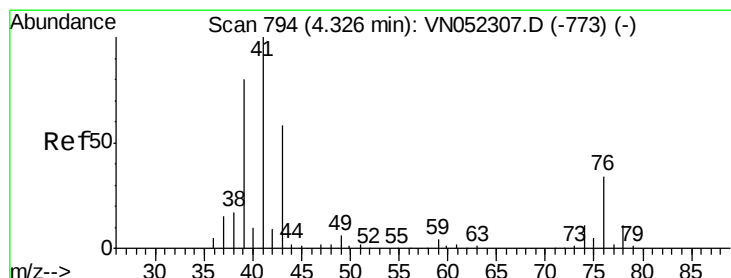
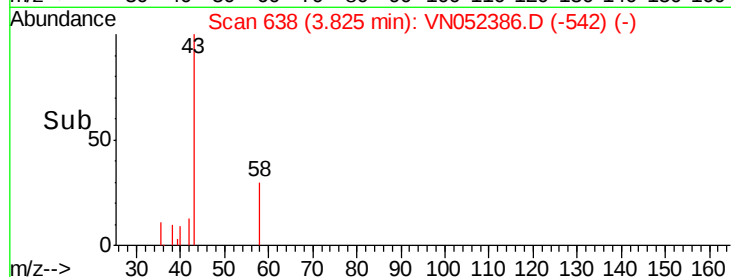
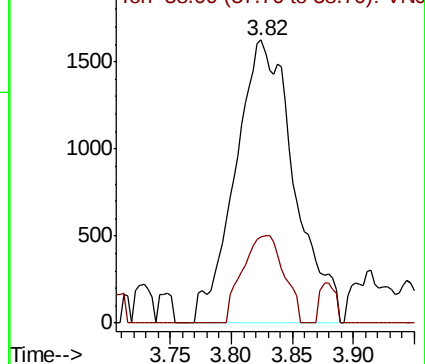
43 100

58 30.3 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: 0.534 ug/l

RT: 4.30 min Scan# 787

Delta R.T. -0.02 min

Lab File: VN052386.D

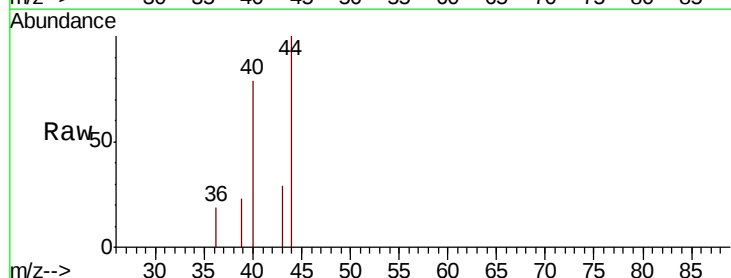
Acq: 19 Nov 2018 15:47

Tgt Ion: 43 Resp: 331

Ion Ratio Lower Upper

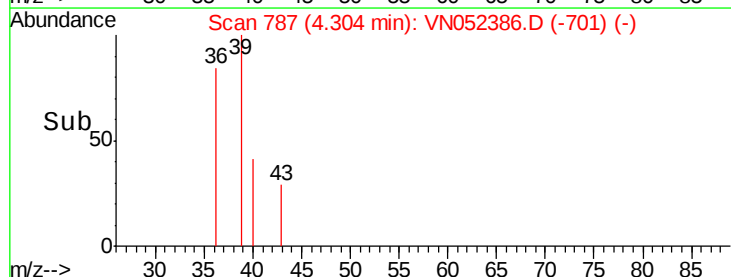
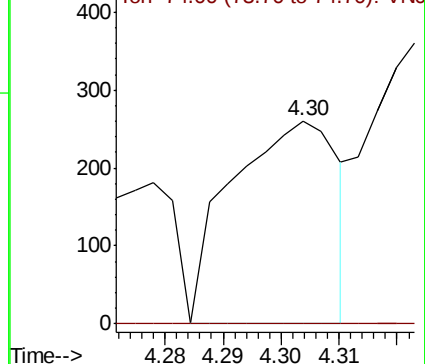
43 100

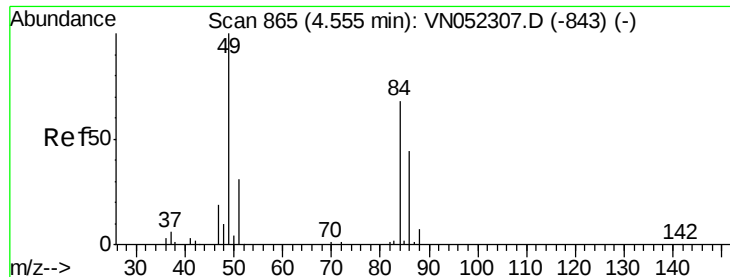
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

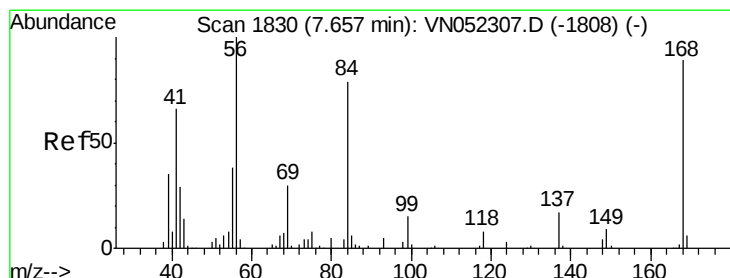
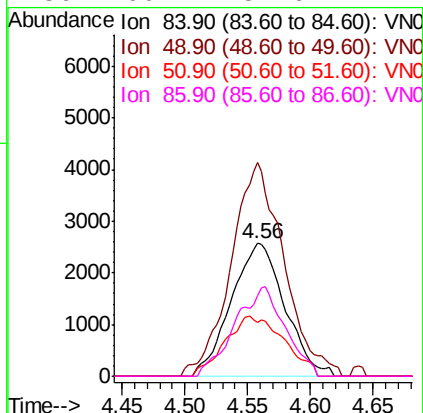
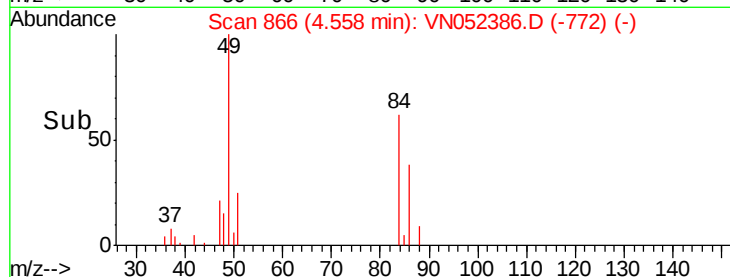
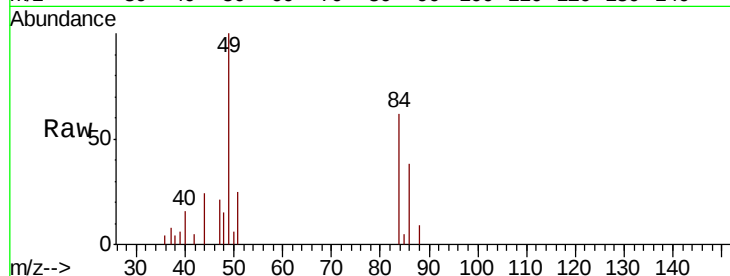




#20
Methvlene Chloride
Concen: 1.523 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052386.D
Acq: 19 Nov 2018 15:47

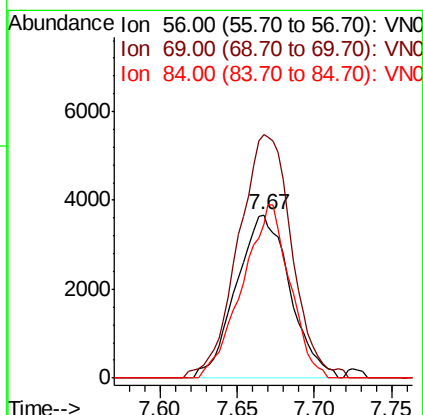
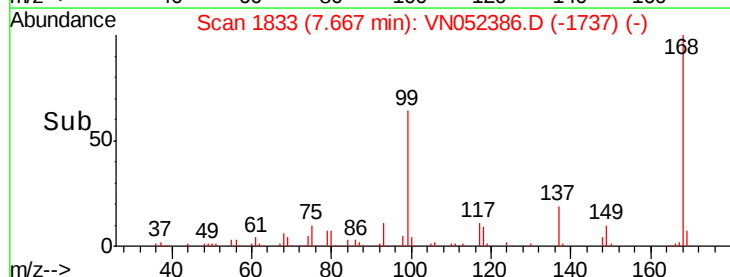
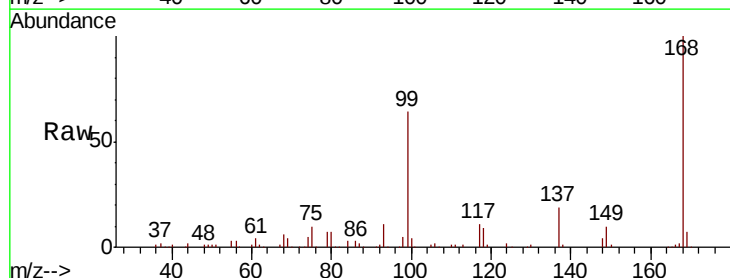
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#02

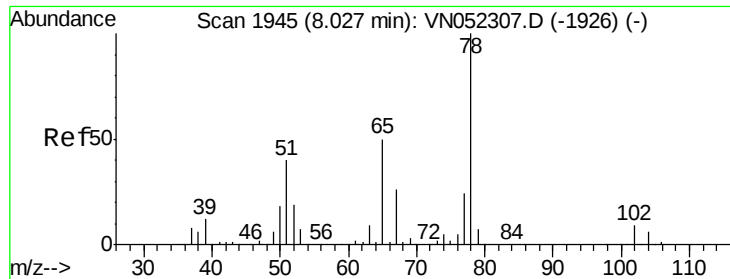
Tot Ion:	84	Resp:	7634
Ion	Ratio	Lower	Upper
84	100		
49	154.2	118.2	177.2
51	40.9	36.1	54.1
86	60.4	51.6	77.4



#31
Cyclohexane
Concen: 0.357 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052386.D
Acq: 19 Nov 2018 15:47

Tgt Ion:	56	Resp:	8873
Ion	Ratio	Lower	Upper
56	100		
69	144.9	23.8	35.8#
84	94.3	63.0	94.6

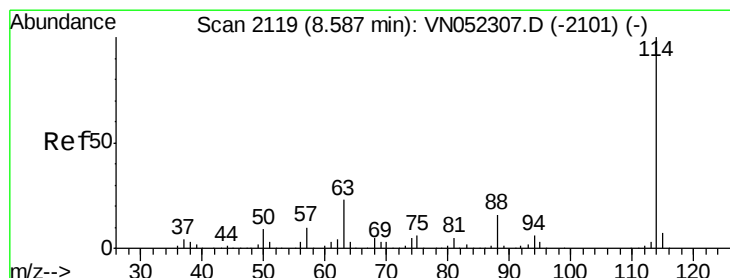
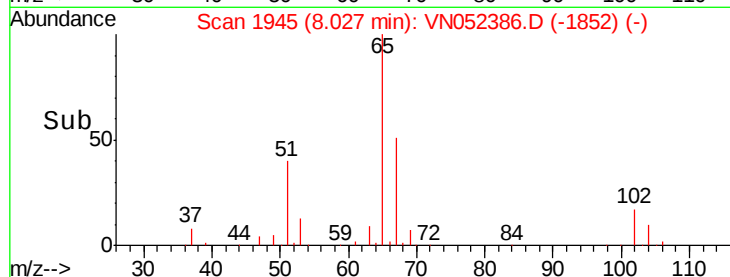
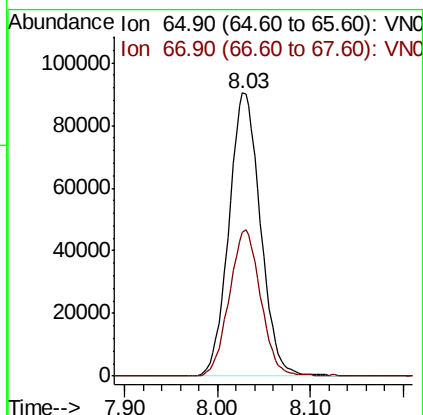
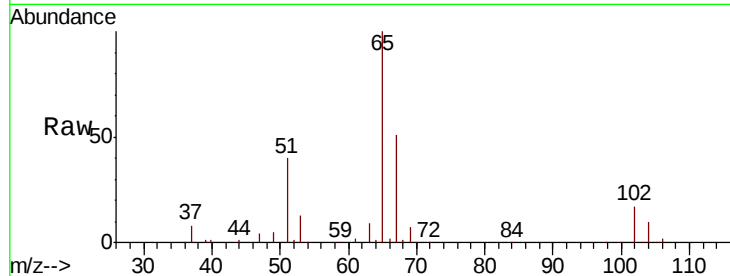




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052386.D
 Acq: 19 Nov 2018 15:47

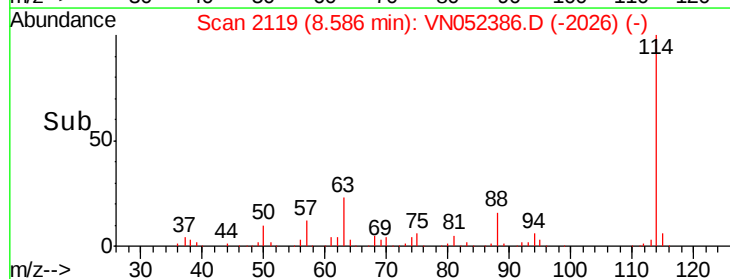
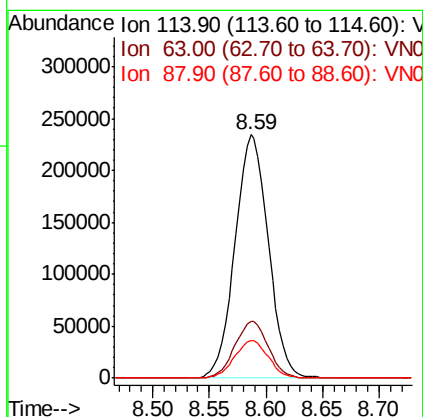
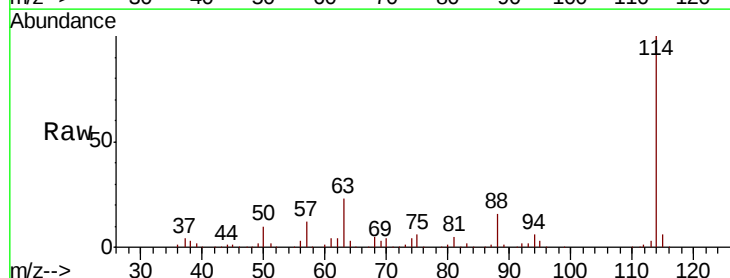
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#02

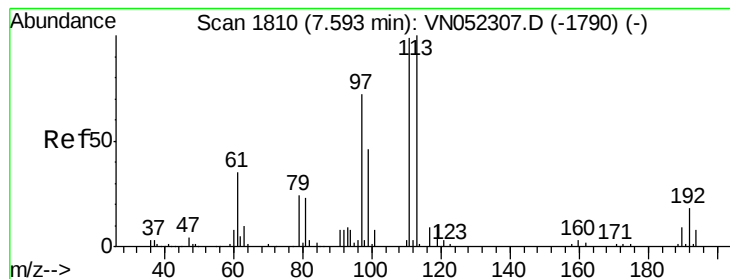
Tot Ion: 65 Resp: 213485
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052386.D
 Acq: 19 Nov 2018 15:47

Tgt Ion: 114 Resp: 480883
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.4
 88 15.5 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: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#02

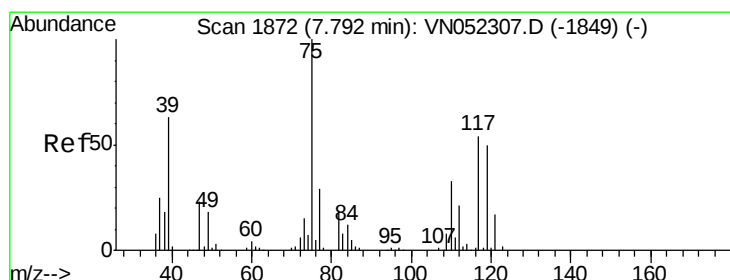
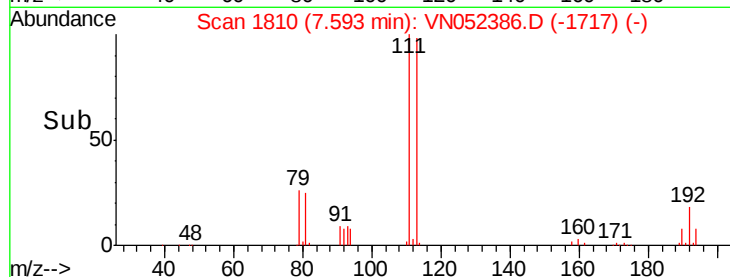
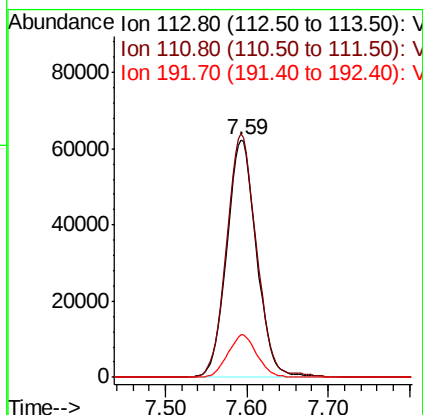
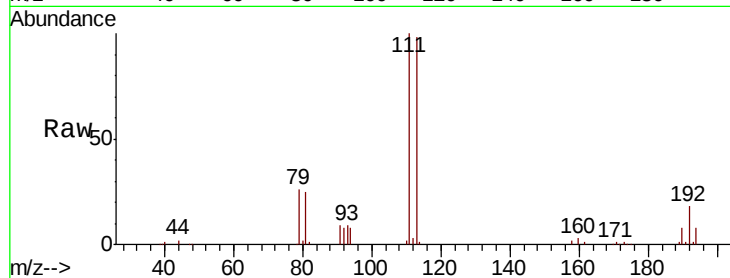
Tot Ion:113 Resp: 159382

Ion Ratio Lower Upper

113 100

111 101.9 81.0 121.6

192 17.5 13.8 20.6



#36

1,1-Dichloropropene

Concen: 5.621 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

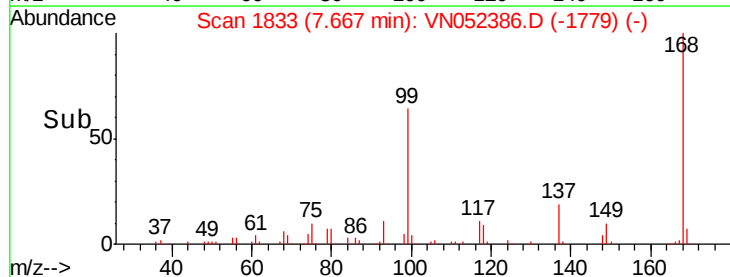
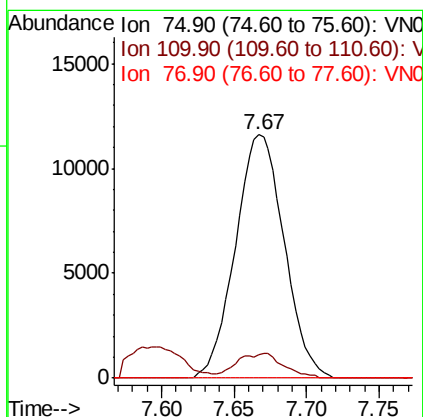
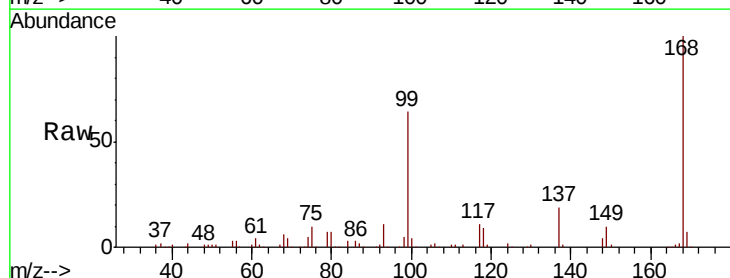
Tgt Ion: 75 Resp: 27091

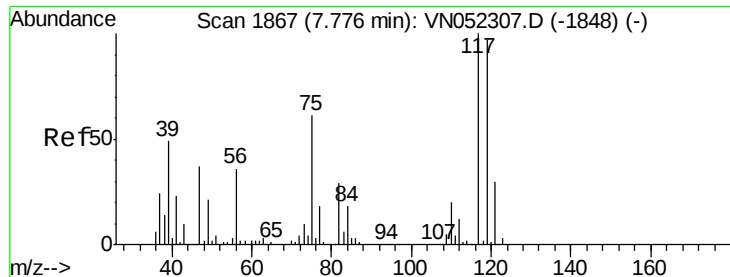
Ion Ratio Lower Upper

75 100

110 9.9 16.5 49.5#

77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 7.019 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

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ClientSampleId :

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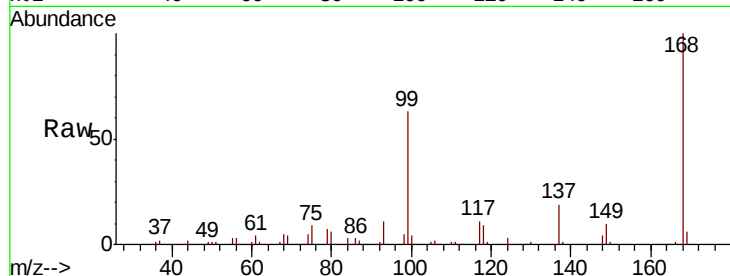
Tot Ion:117 Resp: 31083

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

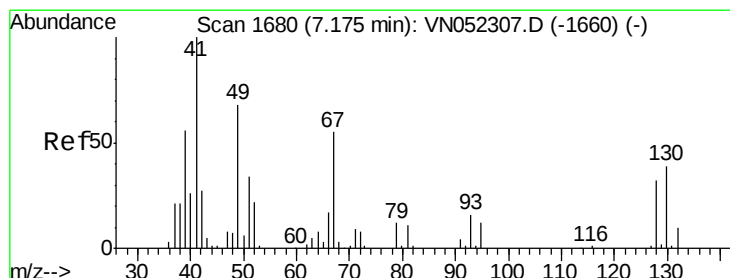
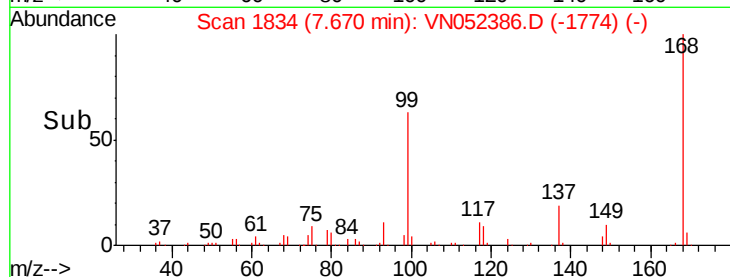
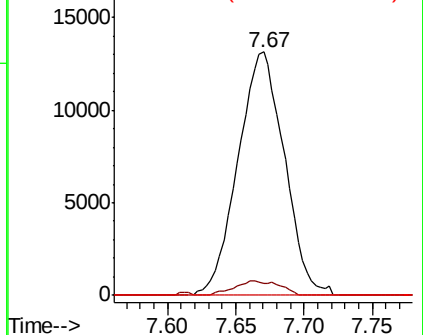
121 0.0 24.0 36.0#



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: 3.755 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Tgt Ion: 41 Resp: 124

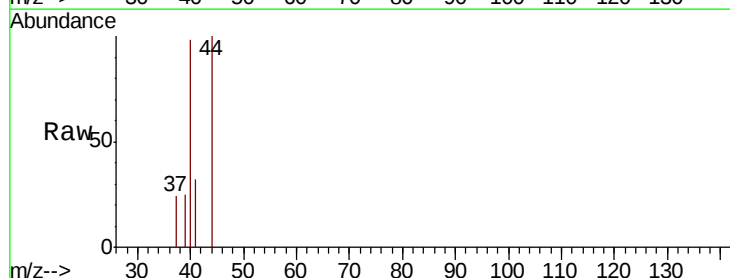
Ion Ratio Lower Upper

41 100

39 107.3 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

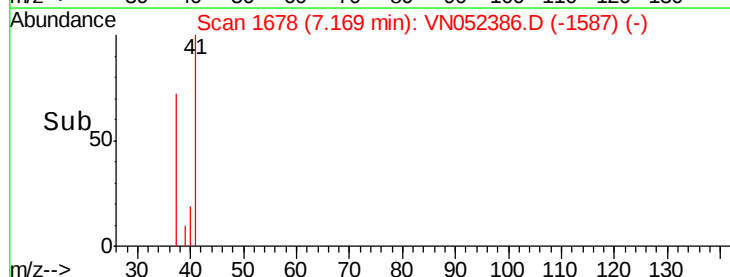
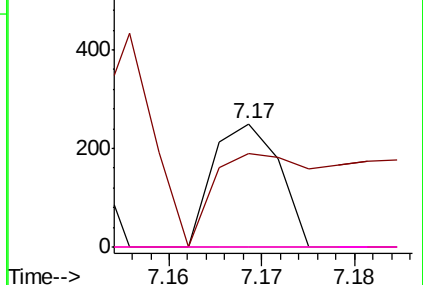


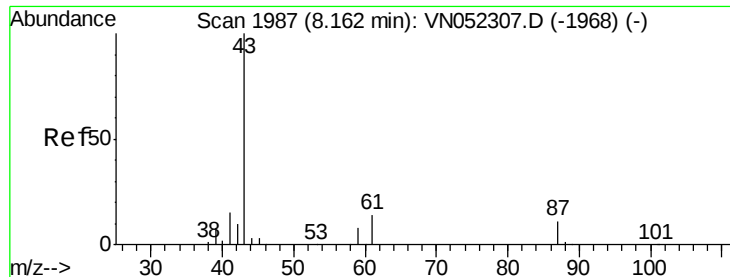
Abundance Ion 41.00 (40.70 to 41.70): V

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: 2.567 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#02

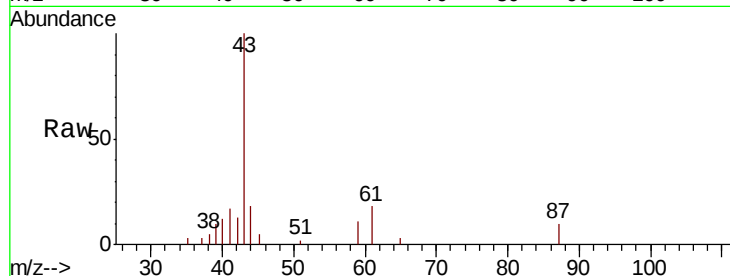
Tot Ion: 43 Resp: 17325

Ion Ratio Lower Upper

43 100

61 13.4 12.0 18.0

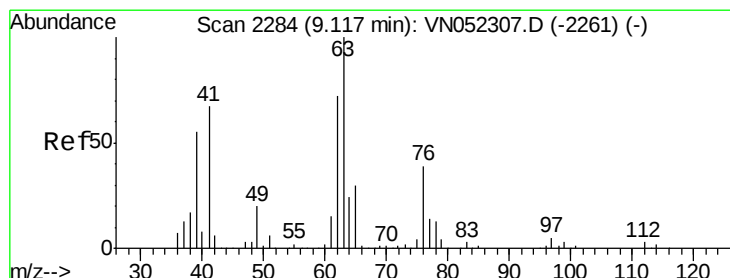
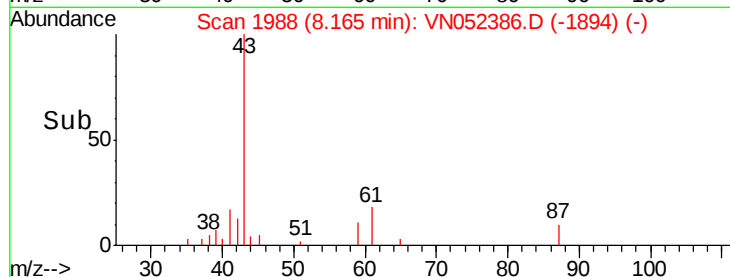
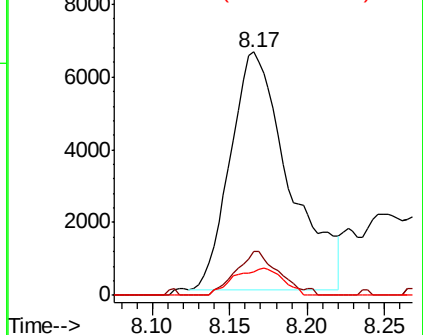
87 9.4 8.3 12.5



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: 0.281 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN052386.D

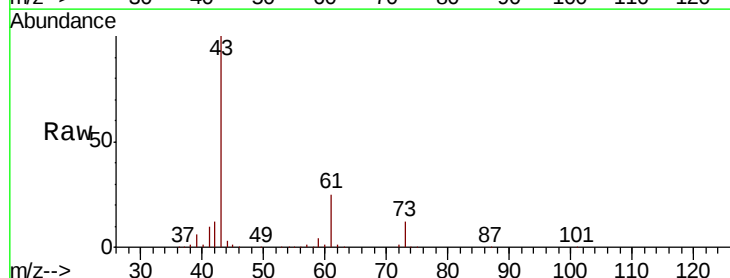
Acq: 19 Nov 2018 15:47

Tgt Ion: 63 Resp: 1097

Ion Ratio Lower Upper

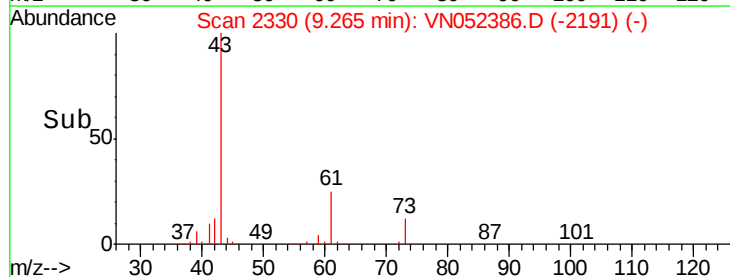
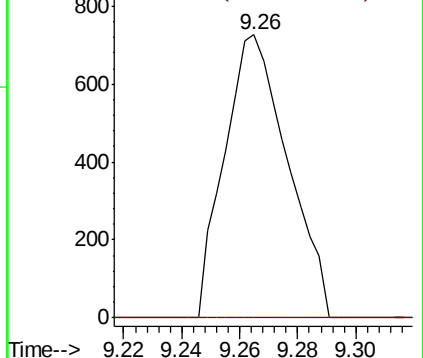
63 100

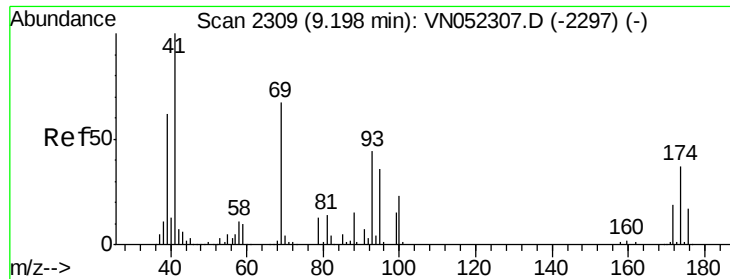
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

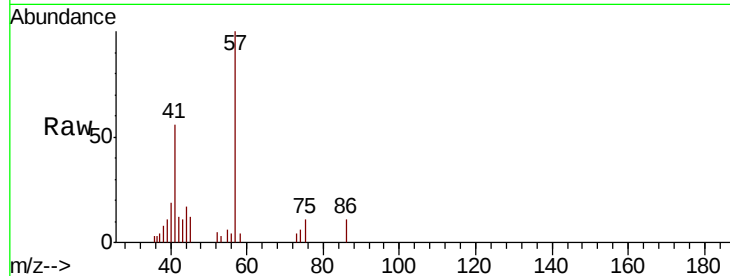




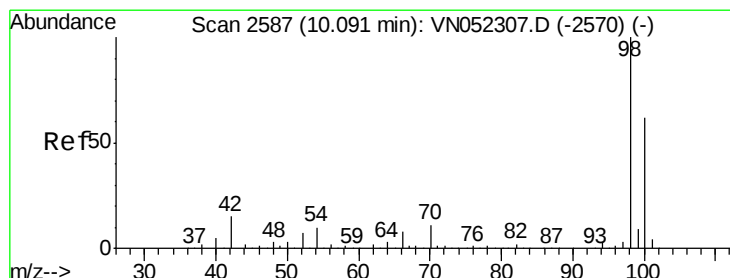
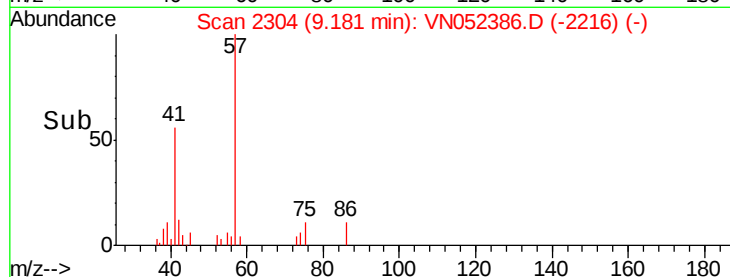
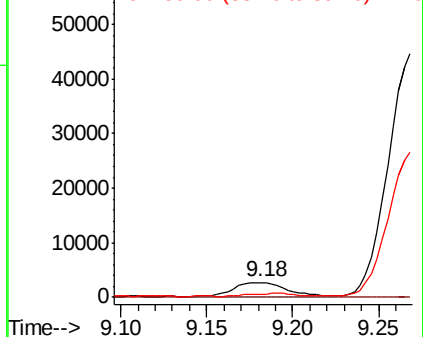
#48
Methvl methacrylate
Concen: 1.604 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052386.D
Acq: 19 Nov 2018 15:47

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#02

Tot Ion: 41 Resp: 5494
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

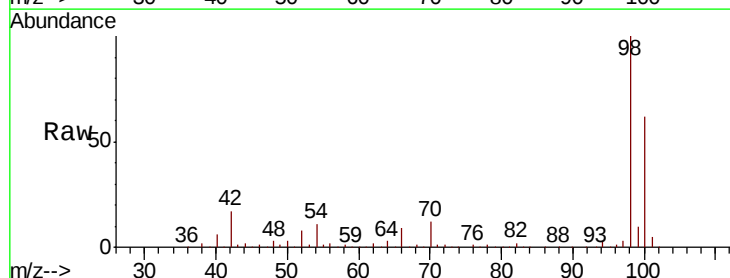


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

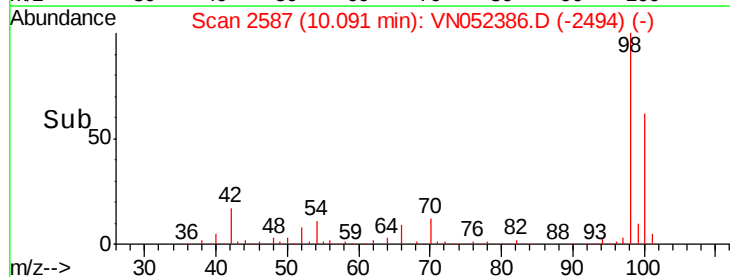
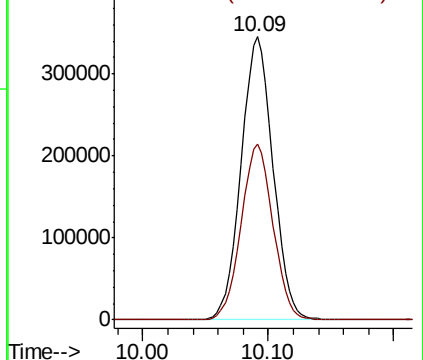


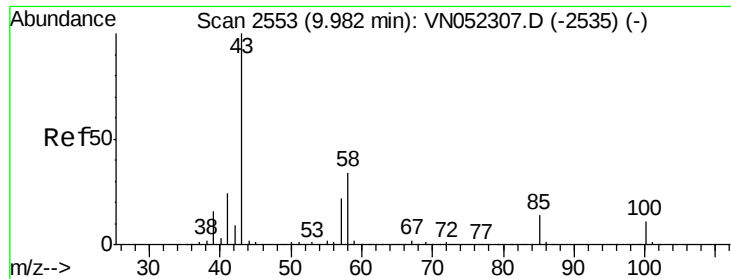
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052386.D
Acq: 19 Nov 2018 15:47

Tgt Ion: 98 Resp: 611989
Ion Ratio Lower Upper
98 100
100 61.9 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: 1.597 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

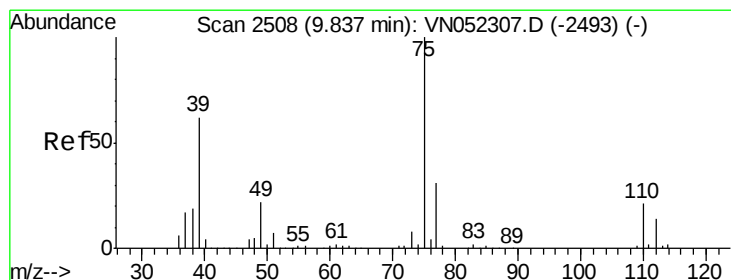
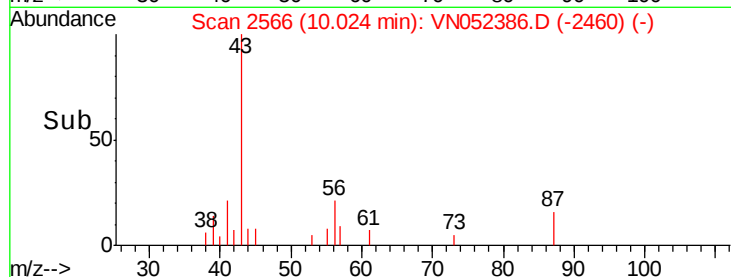
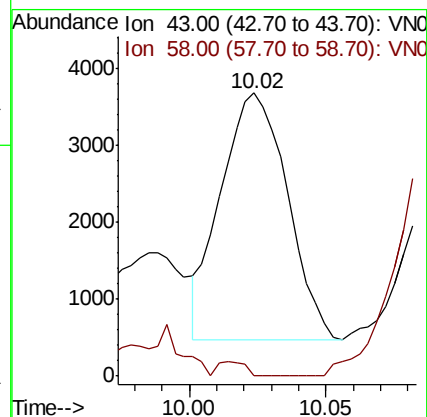
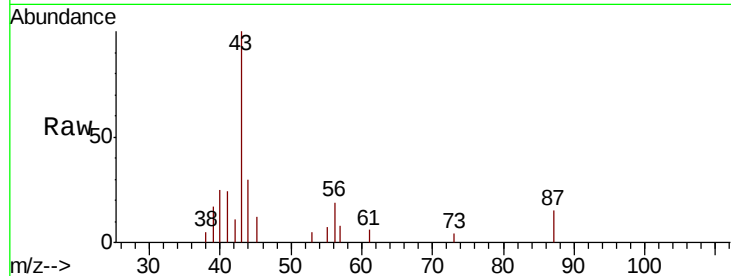
PB114846ZHE#02

Tot Ion: 43 Resp: 5425

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.748 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

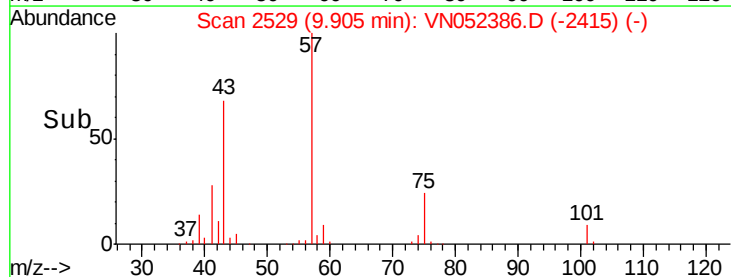
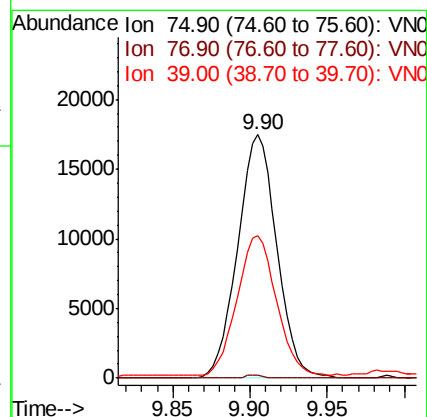
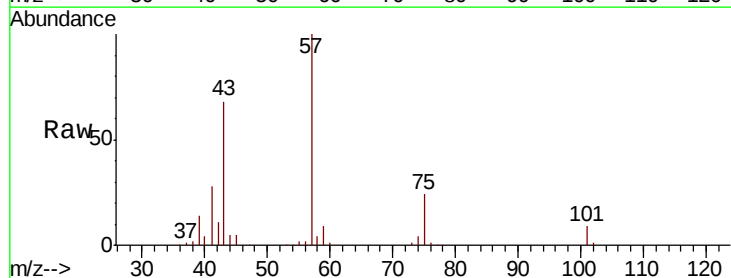
Tgt Ion: 75 Resp: 30680

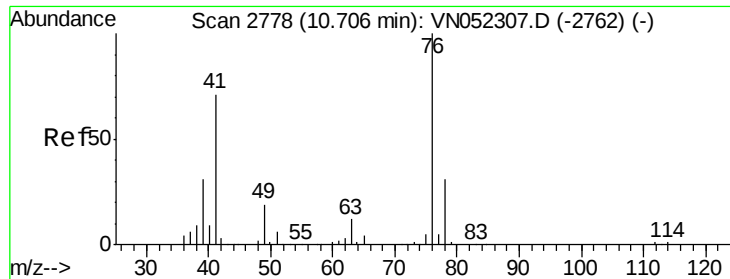
Ion Ratio Lower Upper

75 100

77 1.0 24.6 36.8#

39 57.2 49.9 74.9

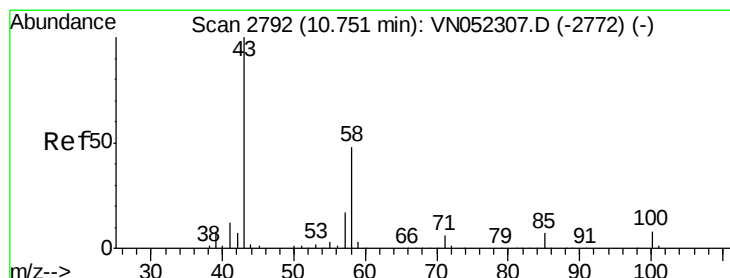
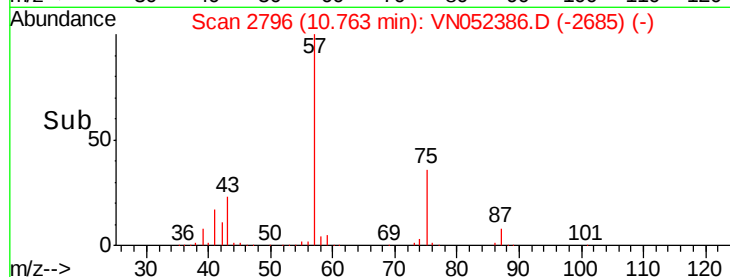
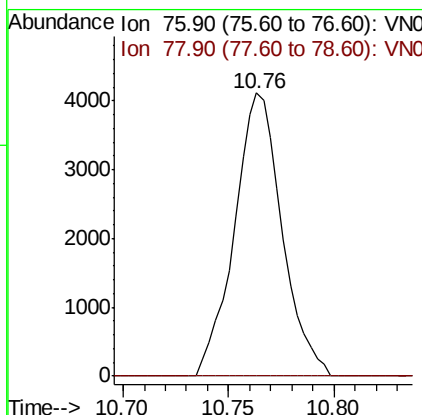
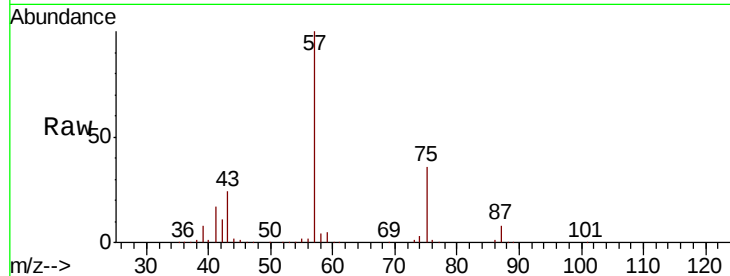




#57
 1,3-Dichloropropane
 Concen: 1.219 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN052386.D
 Acq: 19 Nov 2018 15:47

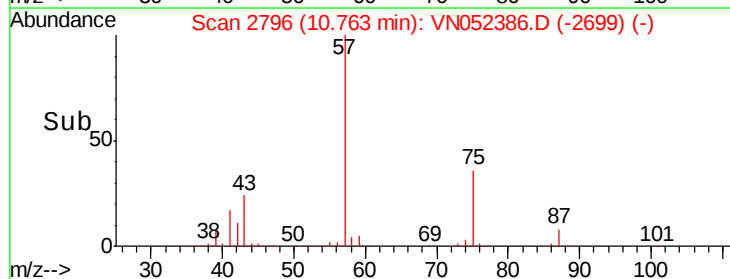
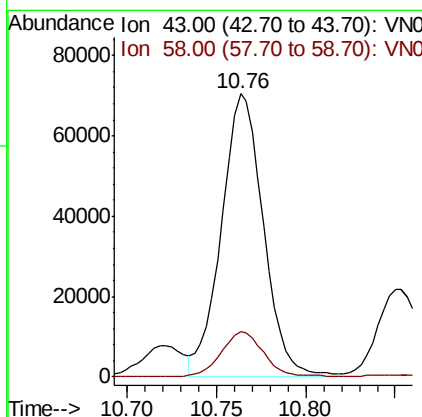
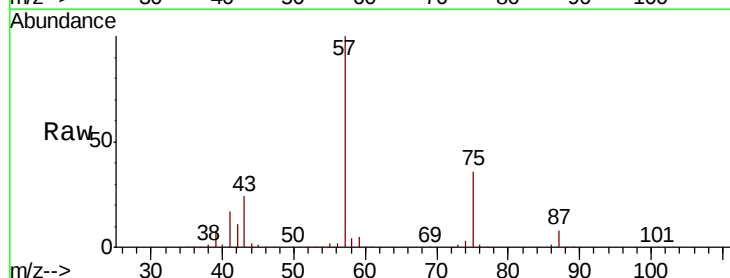
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#02

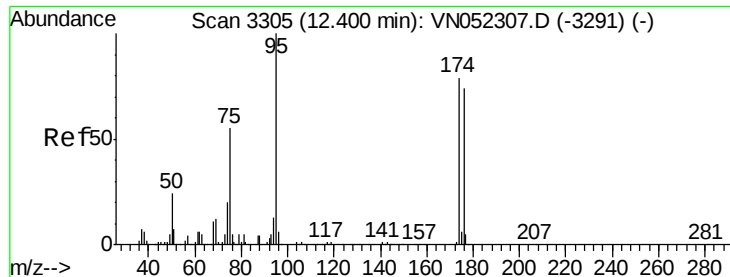
Tot Ion: 76 Resp: 6447
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 48.954 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052386.D
 Acq: 19 Nov 2018 15:47

Tgt Ion: 43 Resp: 114409
 Ion Ratio Lower Upper
 43 100
 58 16.3 23.5 70.6#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#02

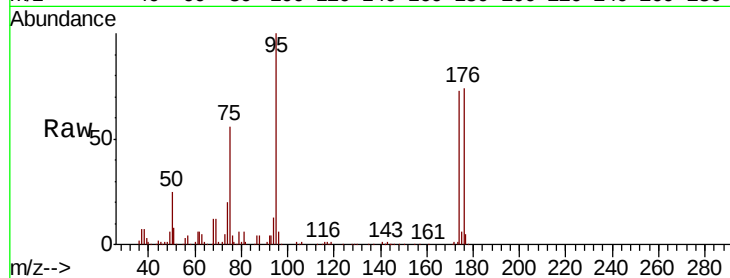
Tot Ion: 95 Resp: 174295

Ion Ratio Lower Upper

95 100

174 74.4 0.0 156.0

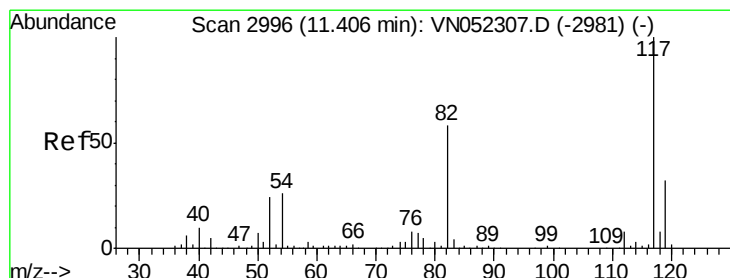
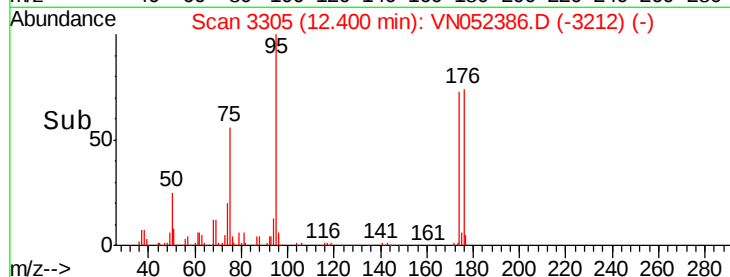
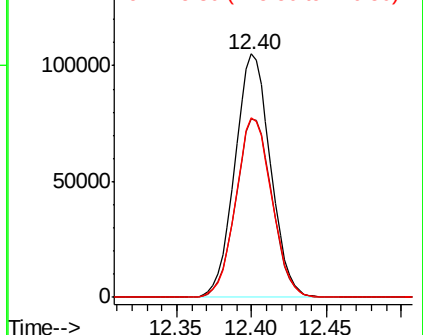
176 74.3 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052386.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052386.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052386.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052386.D

Acq: 19 Nov 2018 15:47

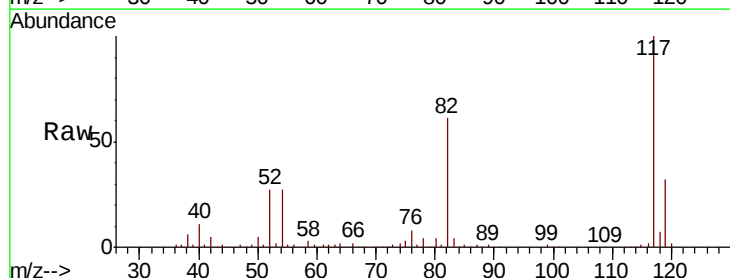
Tgt Ion: 117 Resp: 406397

Ion Ratio Lower Upper

117 100

82 61.2 46.5 69.7

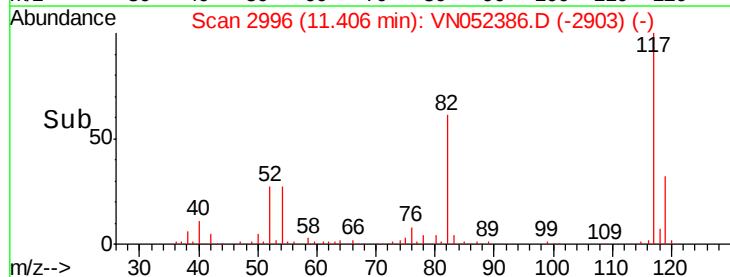
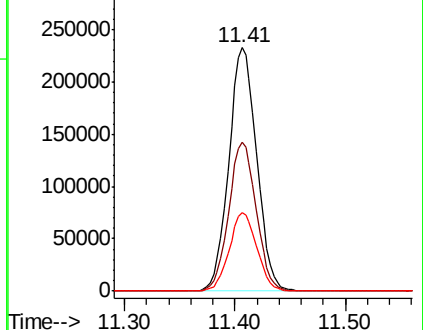
119 32.1 25.7 38.5

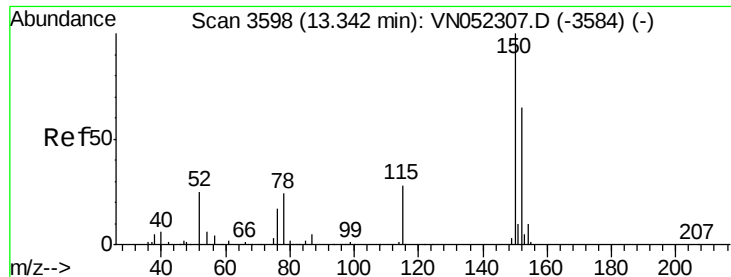


Abundance Ion 116.90 (116.60 to 117.60): VN052386.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052386.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052386.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: VN052386.D

Acq: 19 Nov 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#02

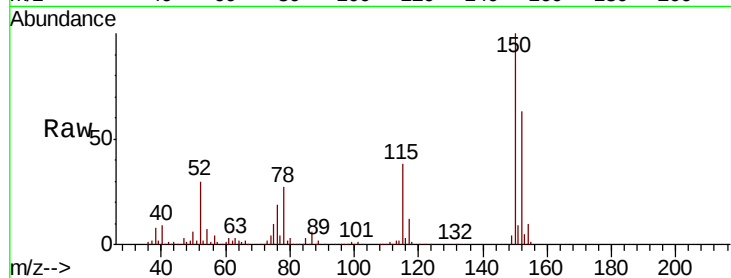
Tot Ion:152 Resp: 134060

Ion Ratio Lower Upper

152 100

115 60.9 30.3 91.0

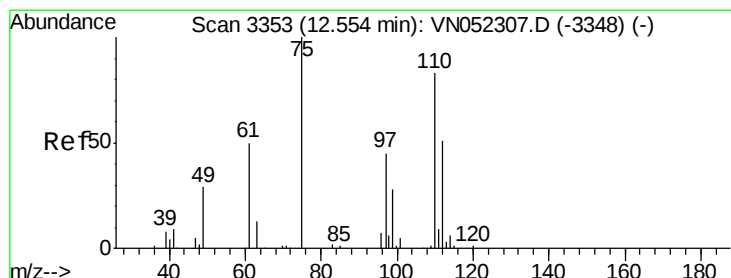
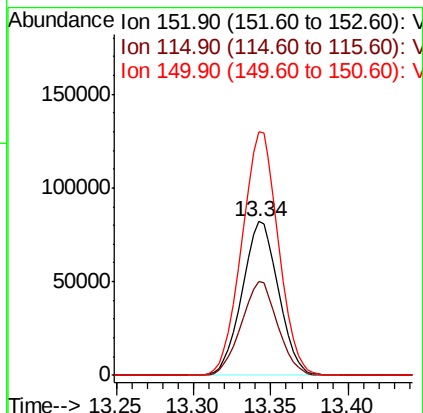
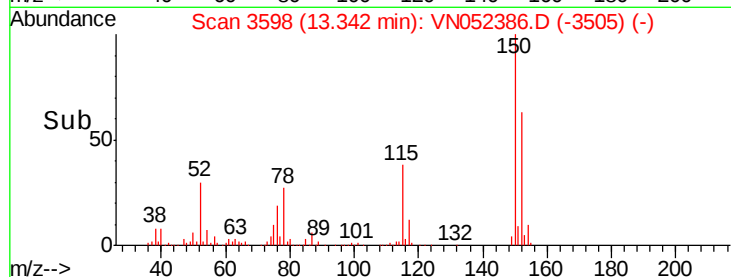
150 159.3 0.0 348.2



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: 43.617 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052386.D

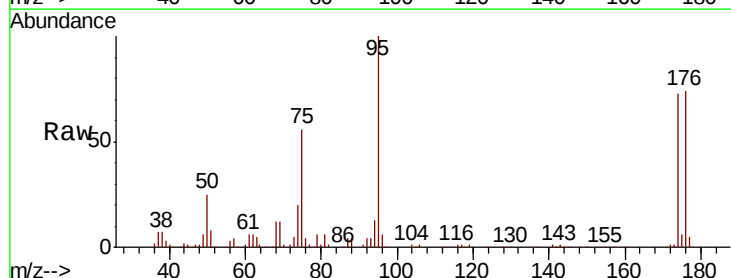
Acq: 19 Nov 2018 15:47

Tgt Ion: 75 Resp: 99217

Ion Ratio Lower Upper

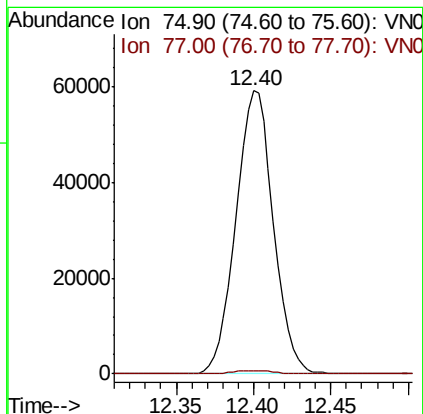
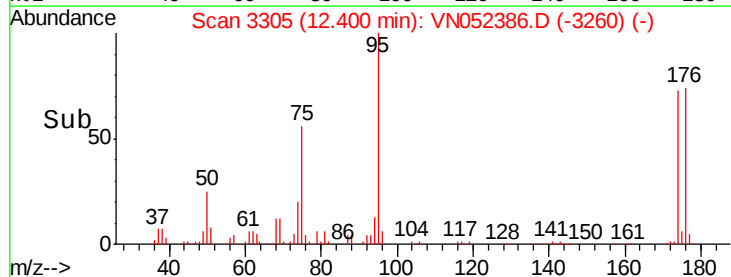
75 100

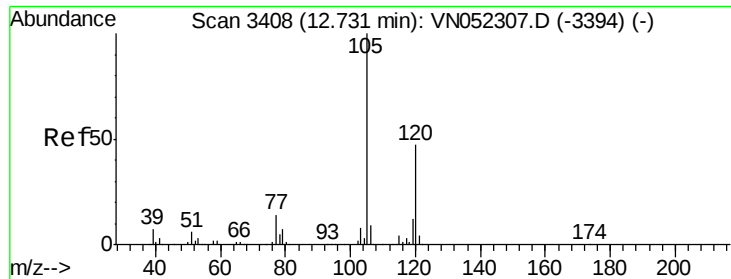
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

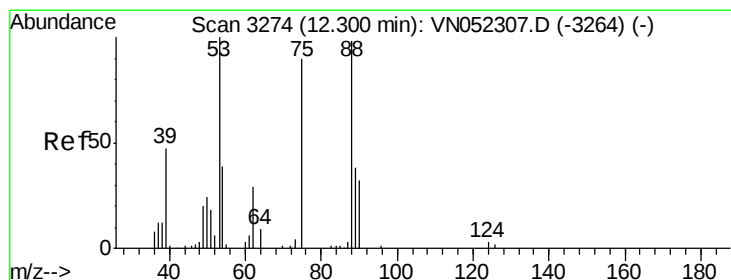
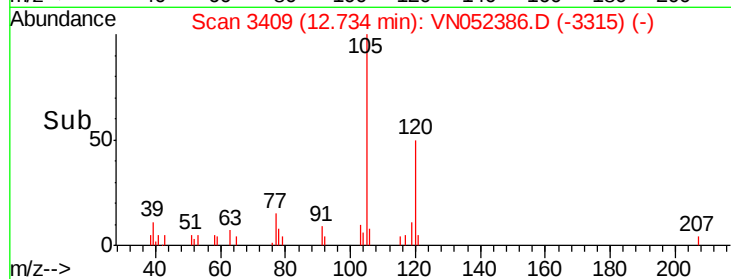
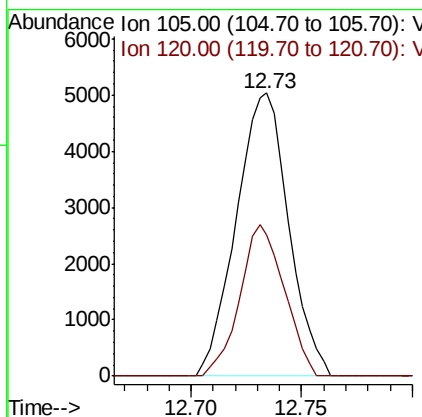
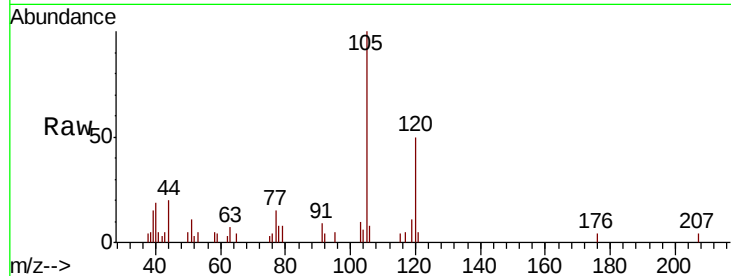




#80
 1,3,5-Trimethylbenzene
 Concen: 0.966 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052386.D
 Acq: 19 Nov 2018 15:47

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#02

Tot Ion:105 Resp: 8283
 Ion Ratio Lower Upper
 105 100
 120 45.4 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.466 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052386.D
 Acq: 19 Nov 2018 15:47

Tgt Ion: 75 Resp: 99217
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#

