

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052844.D
 Acq On : 12 Dec 2018 22:54
 Operator : MD\SY
 Sample : PB115564ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#08

Quant Time: Dec 13 04:15:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

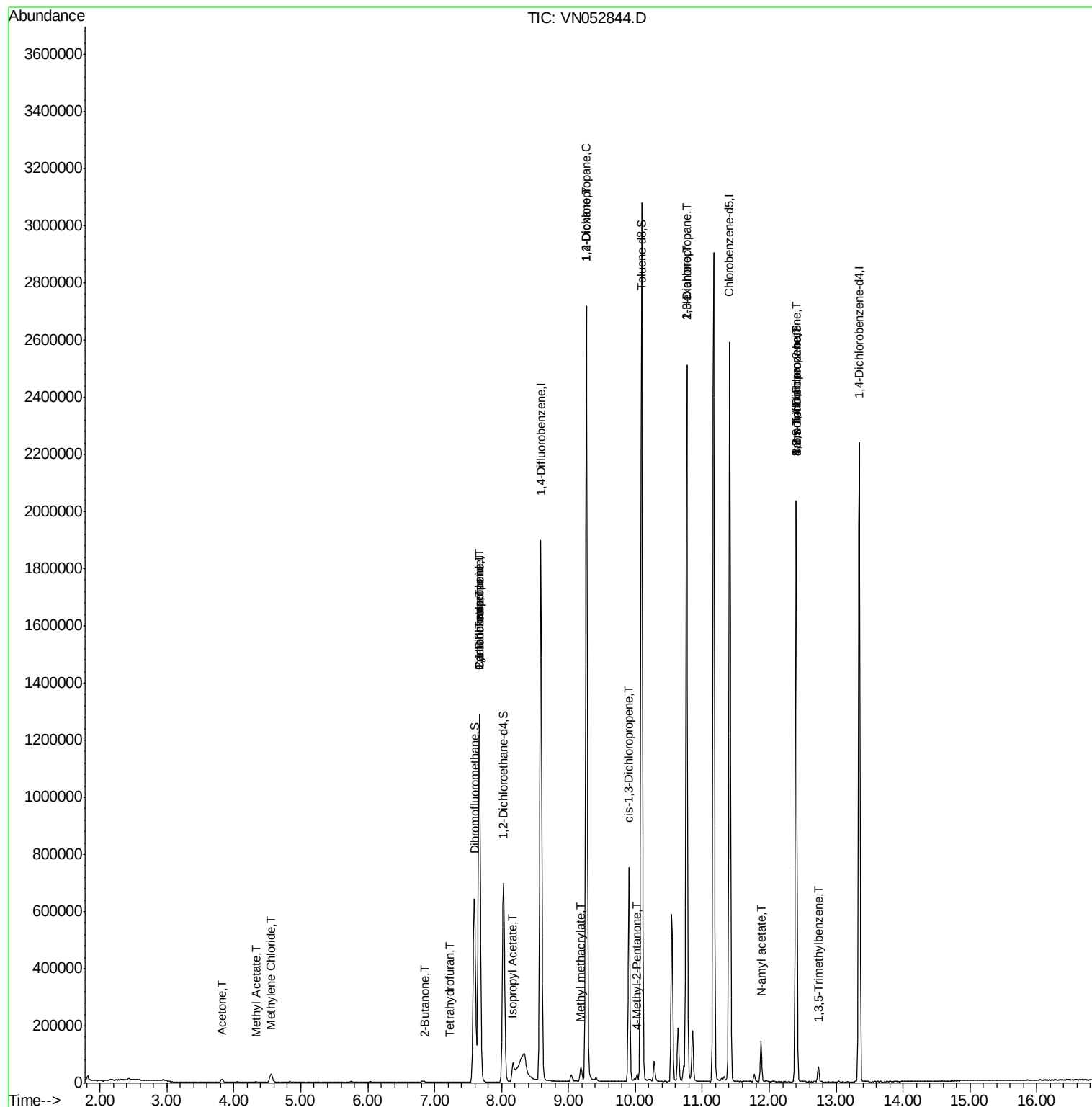
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1128190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1760190	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1580882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	630291	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	594920	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	
35) Dibromofluoromethane	7.59	113	500642	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
50) Toluene-d8	10.09	98	2170323	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	699067	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	18004	6.683	ug/l	93
18) Methyl Acetate	4.33	43	4639	0.469	ug/l	91
20) Methylene Chloride	4.55	84	22438	1.851	ug/l	96
25) 2-Butanone	6.84	43	2549	0.610	ug/l #	49
29) Tetrahydrofuran	7.23	42	1721	0.603	ug/l #	65
31) Cyclohexane	7.66	56	19280	0.373	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	74765	4.613	ug/l #	49
38) Carbon Tetrachloride	7.67	117	98889	6.628	ug/l #	16
43) Isopropyl Acetate	8.17	43	88880	4.452	ug/l #	74
45) 1,2-Dichloropropane	9.27	63	3375	0.265	ug/l #	44
48) Methyl methacrylate	9.18	41	18076	2.065	ug/l #	23
49) 1,4-Dioxane	9.26	88	333	3.351	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	21513	2.350	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	137905	7.505	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	26662	1.478	ug/l #	42
59) 2-Hexanone	10.76	43	357406	56.969	ug/l #	50
71) Bromoform	12.41	173	4079	0.526	ug/l #	1
74) N-amyl acetate	11.88	43	44456	3.441	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	334995	36.024	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	29102	0.766	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	334995	115.726	ug/l #	12

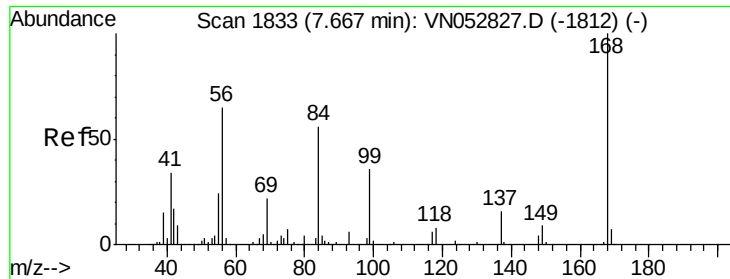
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

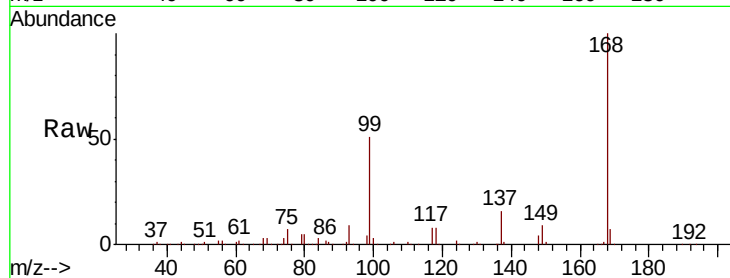
PB115564ZHE#08

Tot Ion:168 Resp: 1128190

Ion Ratio Lower Upper

168 100

99 51.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

500000

400000

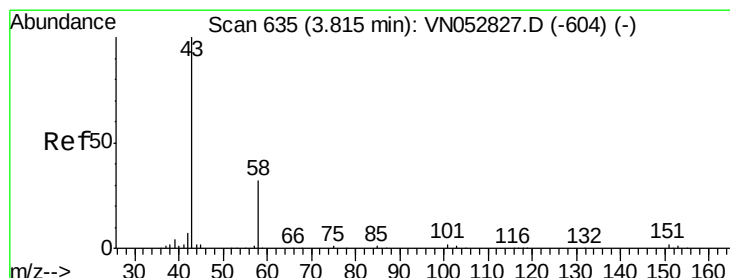
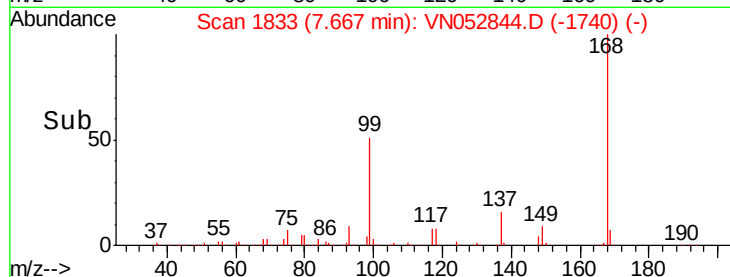
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 6.683 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052844.D

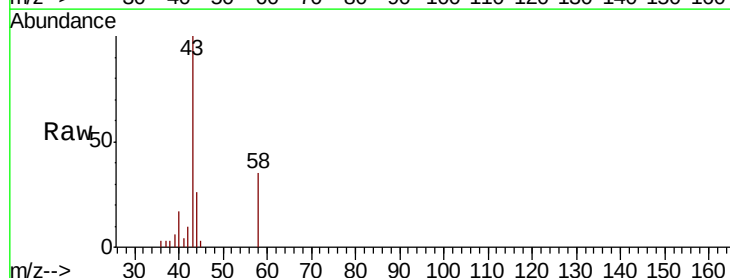
Acq: 12 Dec 2018 22:54

Tgt Ion: 43 Resp: 18004

Ion Ratio Lower Upper

43 100

58 35.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN052827.D (-604) (-)

3.82

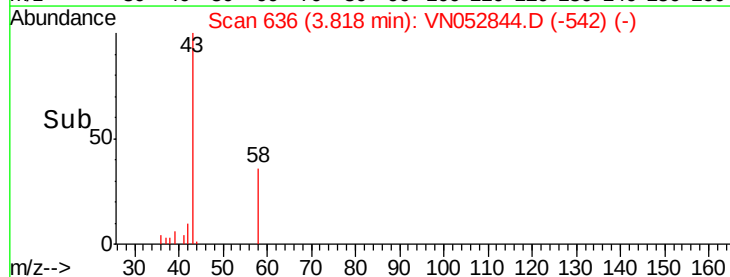
6000

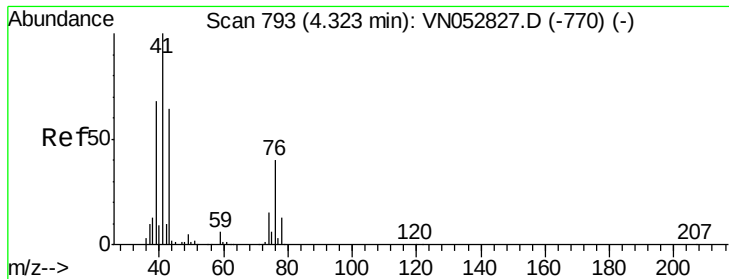
4000

2000

0

Time-->

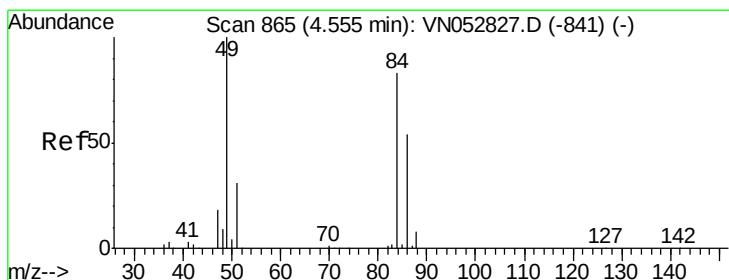
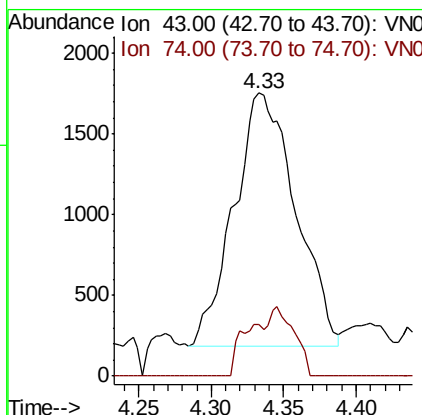
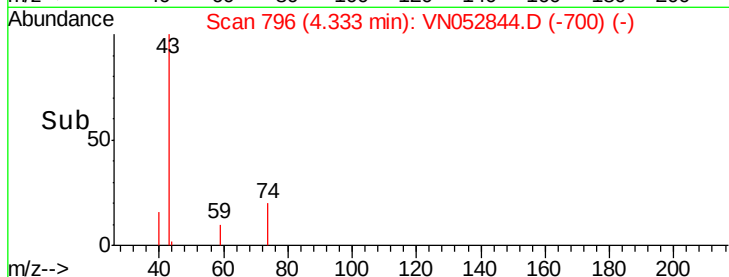
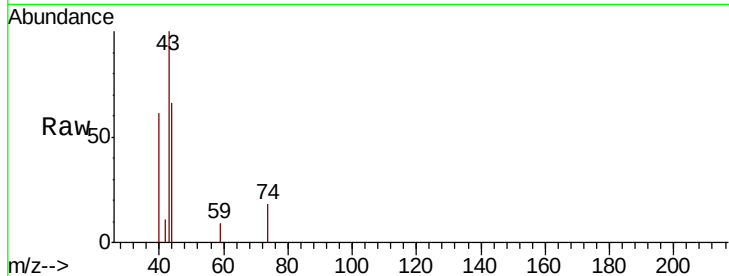




#18
Methyl Acetate
Concen: 0.469 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

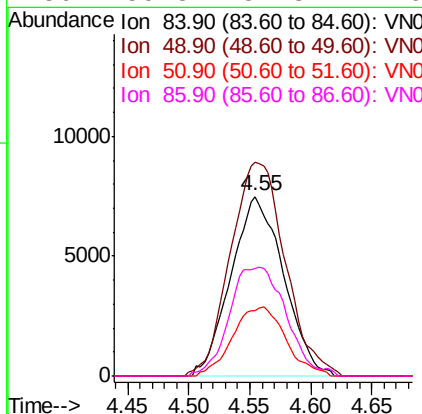
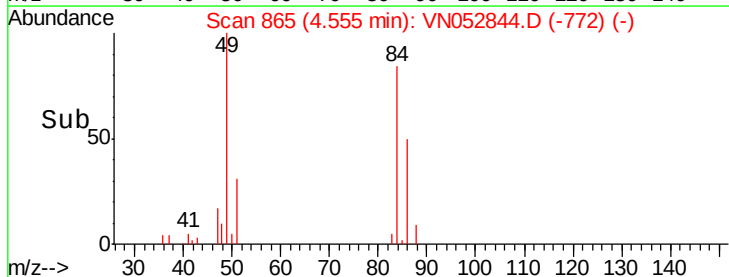
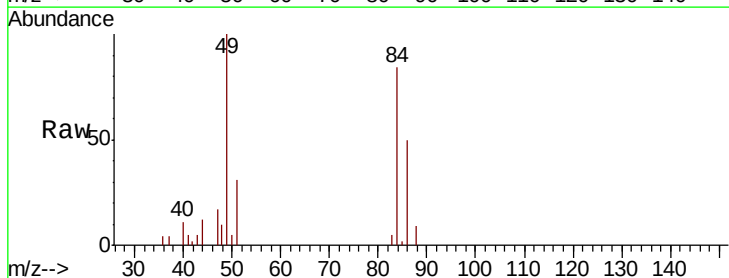
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#08

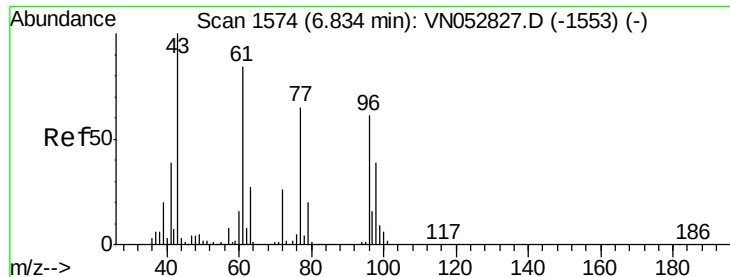
Tot Ion: 43 Resp: 4639
Ion Ratio Lower Upper
43 100
74 19.7 19.2 28.8



#20
Methylene Chloride
Concen: 1.851 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

Tgt Ion: 84 Resp: 22438
Ion Ratio Lower Upper
84 100
49 116.7 96.8 145.2
51 36.6 29.9 44.9
86 59.8 51.8 77.6





#25

2-Butanone

Concen: 0.610 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

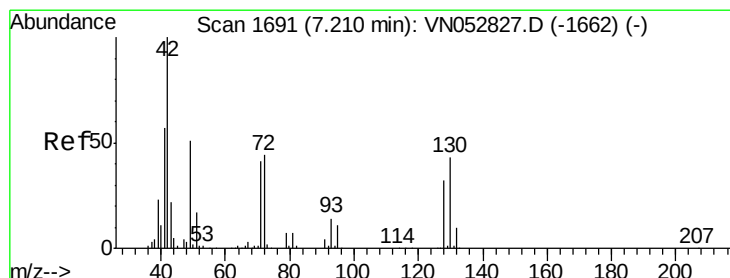
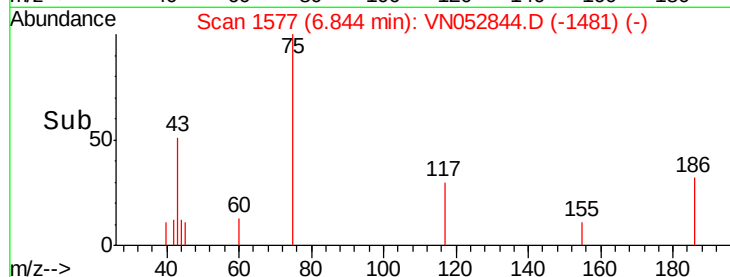
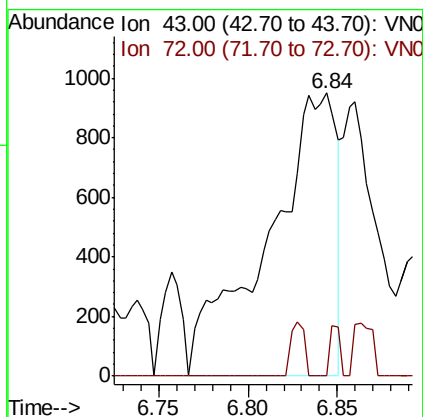
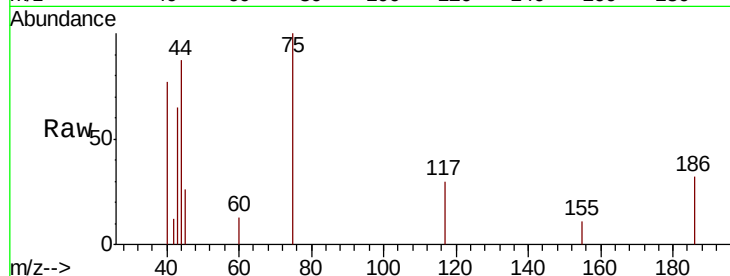
PB115564ZHE#08

Tot Ion: 43 Resp: 2549

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.603 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

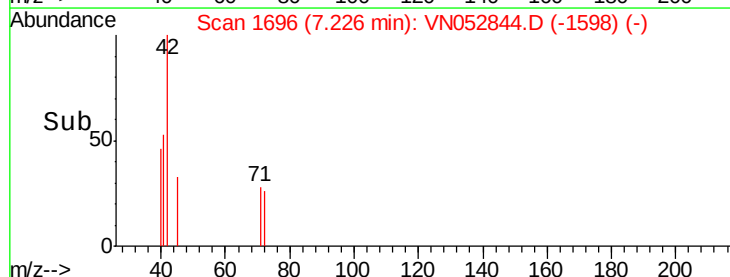
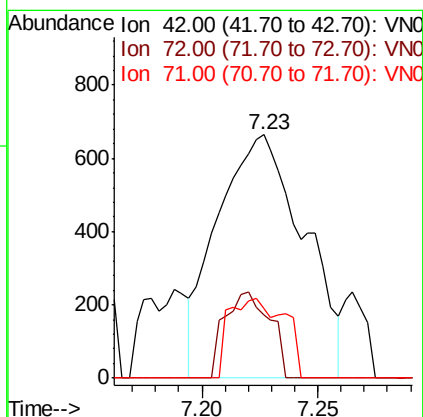
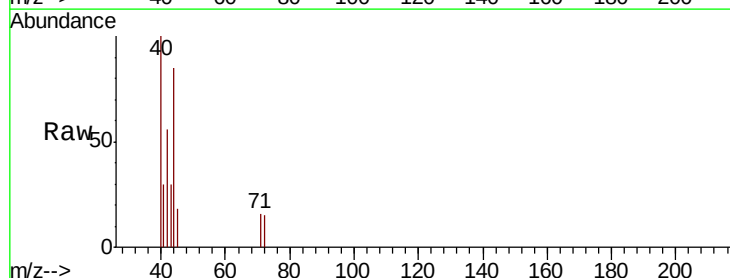
Tgt Ion: 42 Resp: 1721

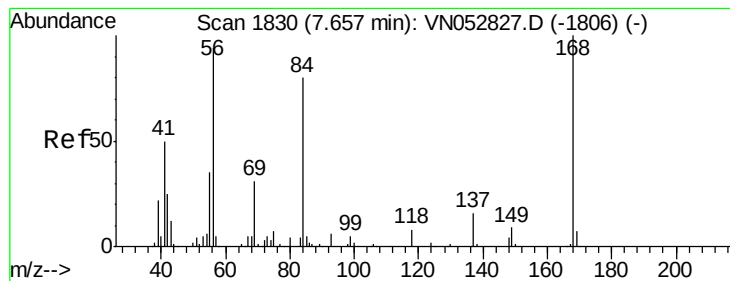
Ion Ratio Lower Upper

42 100

72 18.5 34.7 52.1#

71 20.9 32.3 48.5#





#31

Cyclohexane

Concen: 0.373 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#08

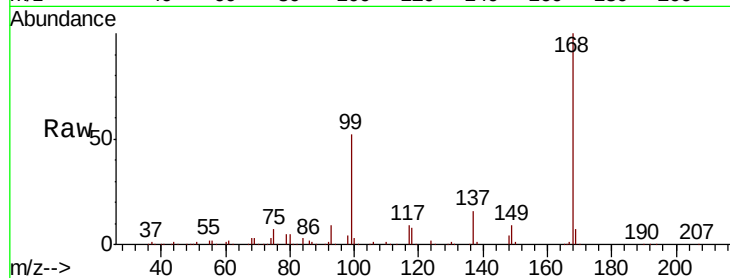
Tot Ion: 56 Resp: 19280

Ion Ratio Lower Upper

56 100

69 181.5 26.6 39.8#

84 161.4 68.4 102.6#

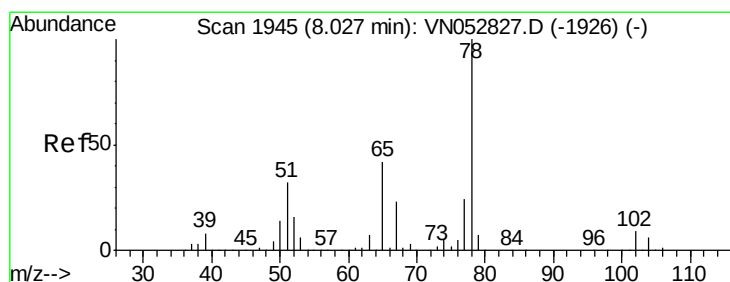
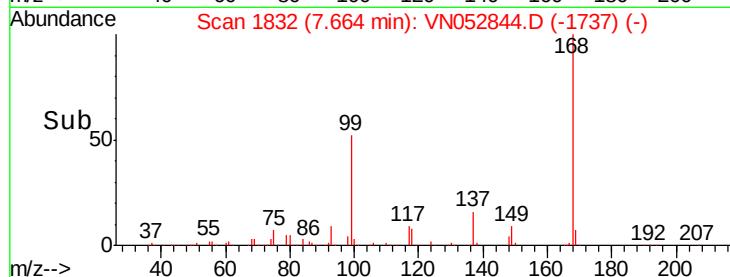
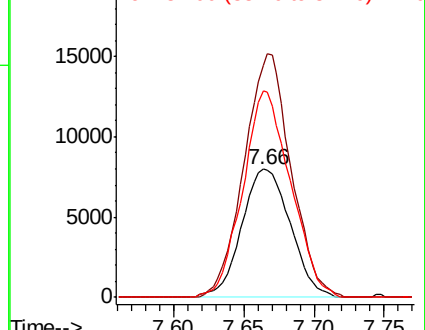


Abundance

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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052844.D

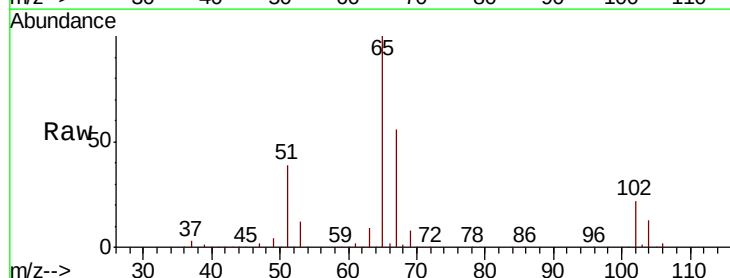
Acq: 12 Dec 2018 22:54

Tgt Ion: 65 Resp: 594920

Ion Ratio Lower Upper

65 100

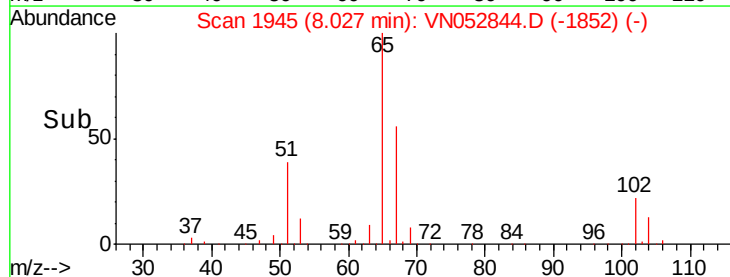
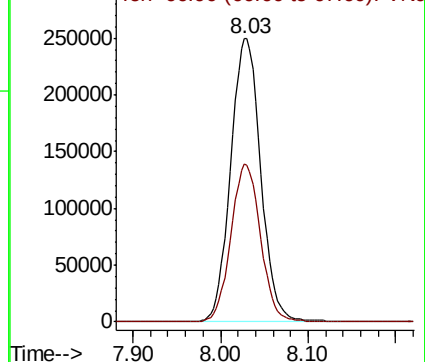
67 54.9 0.0 110.4

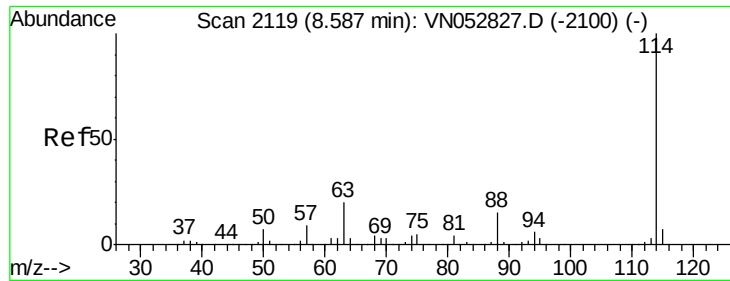


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

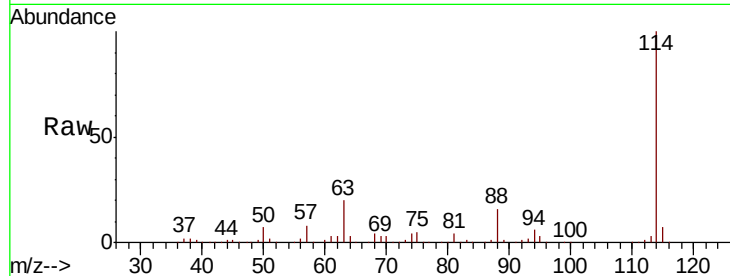




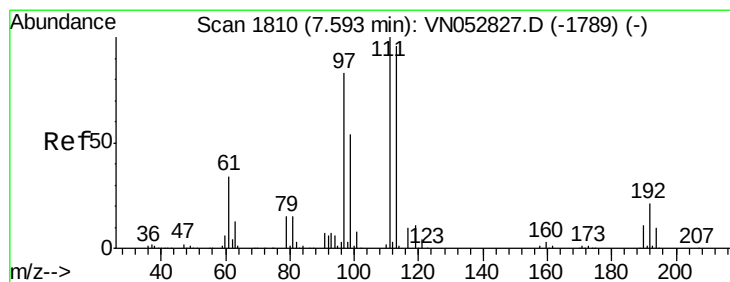
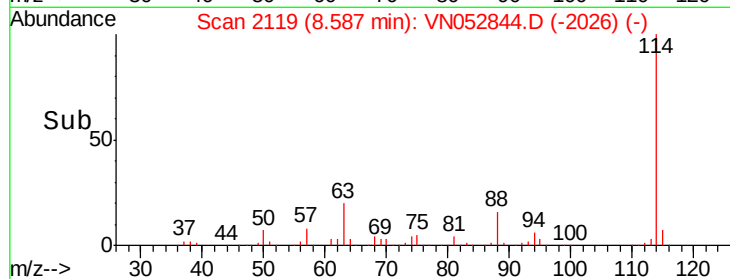
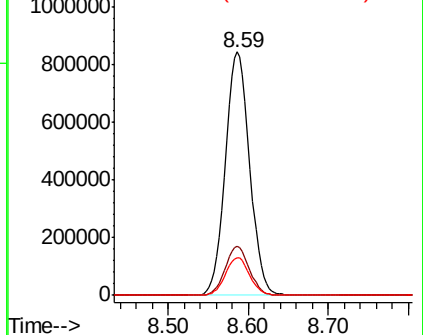
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052844.D
 Acq: 12 Dec 2018 22:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#08

Tot Ion:114 Resp: 1760190
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.6 0.0 31.0

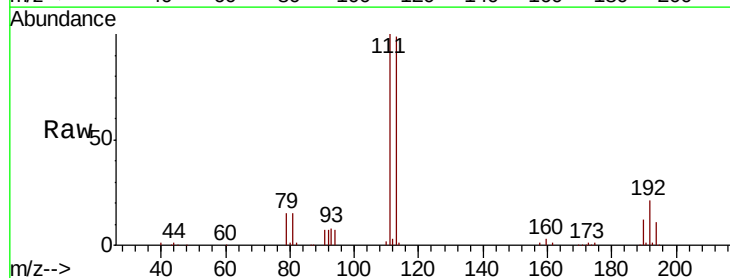


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

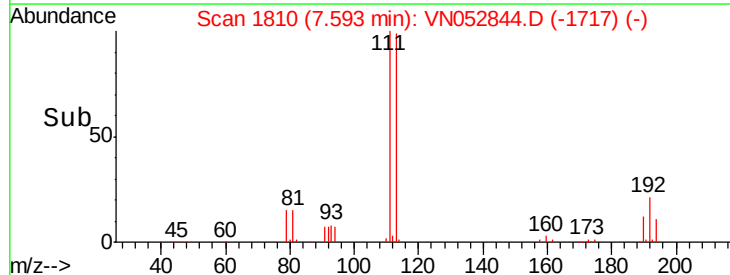
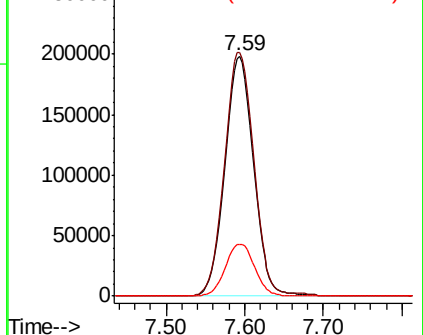


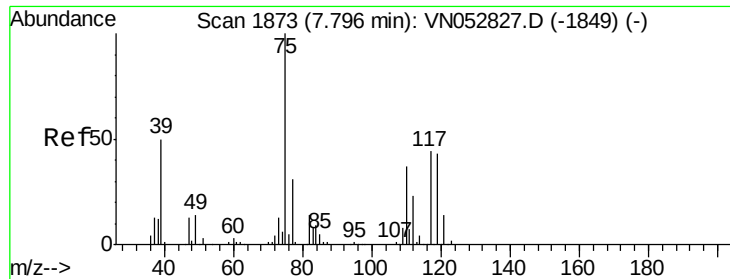
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052844.D
 Acq: 12 Dec 2018 22:54

Tgt Ion:113 Resp: 500642
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.0 124.4
 192 22.2 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

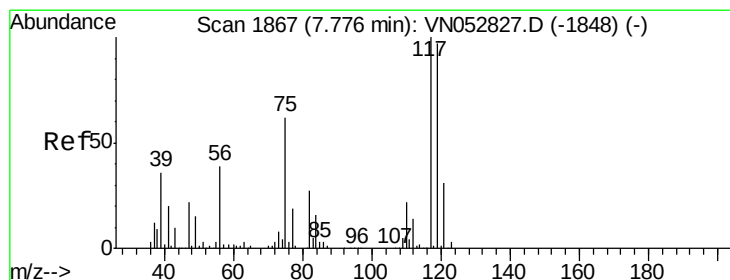
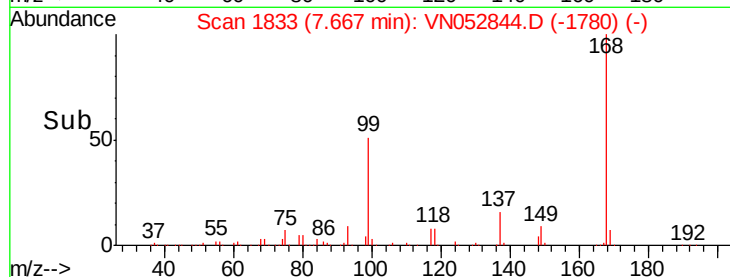
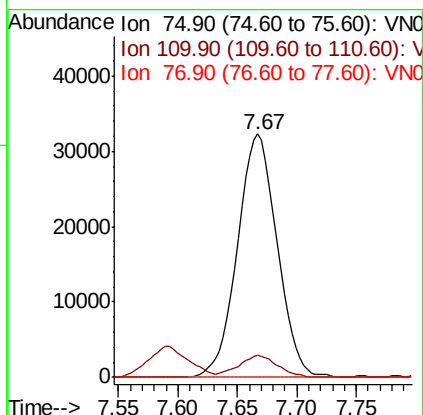
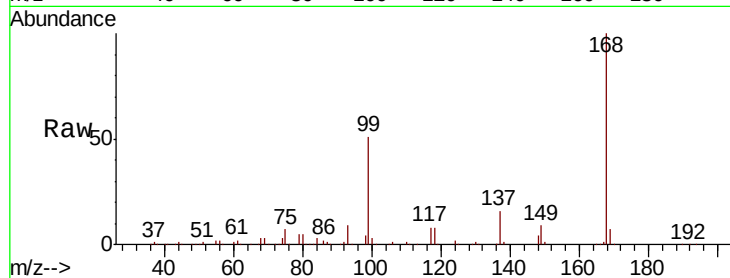




#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052844.D
 Acq: 12 Dec 2018 22:54

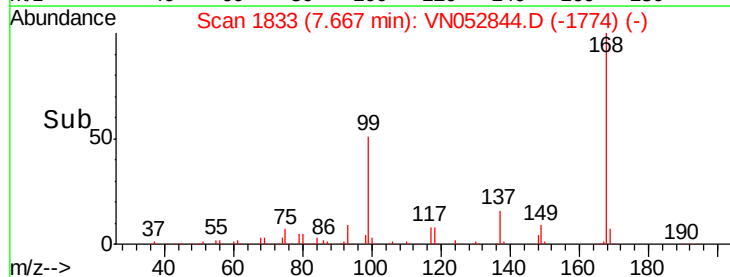
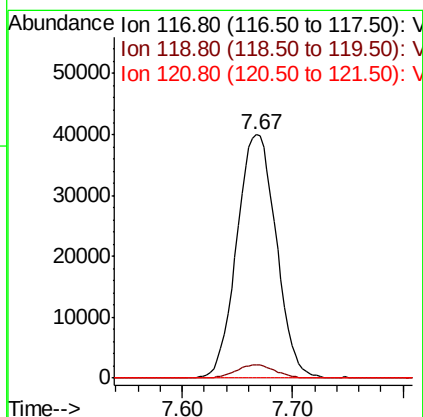
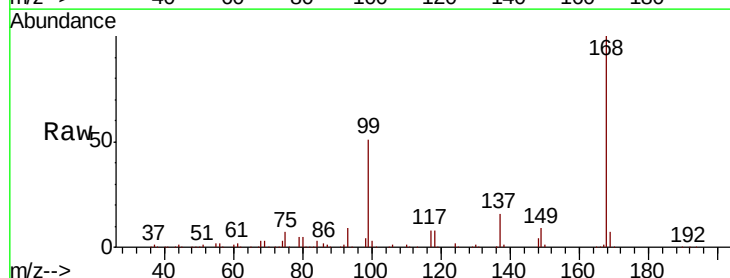
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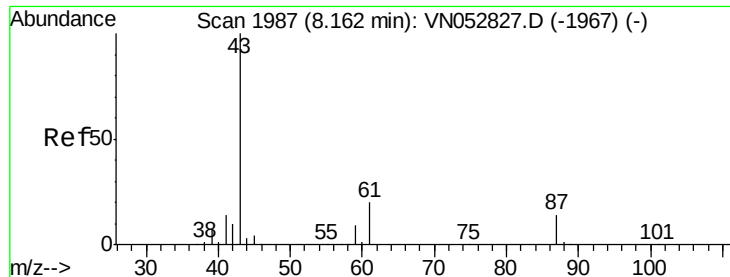
Tot Ion: 75 Resp: 74765
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.2 54.6#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.628 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052844.D
 Acq: 12 Dec 2018 22:54

Tgt Ion: 117 Resp: 98889
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.1 115.7#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 4.452 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#08

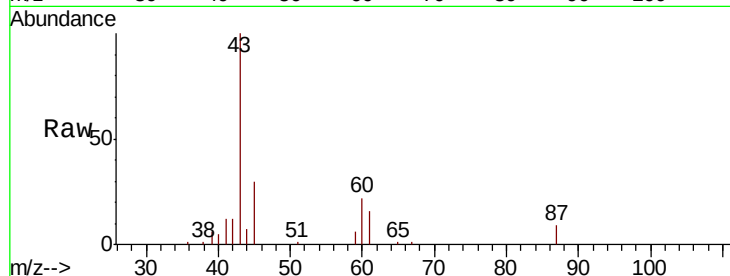
Tot Ion: 43 Resp: 88880

Ion Ratio Lower Upper

43 100

61 12.3 22.9 34.3#

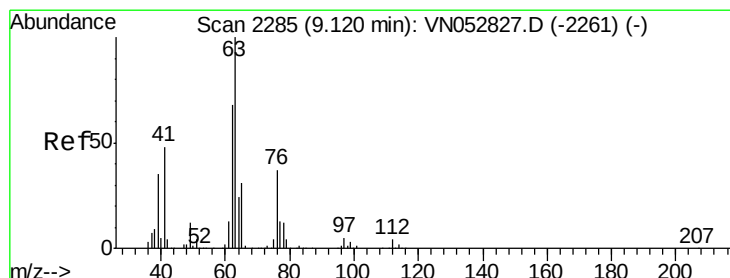
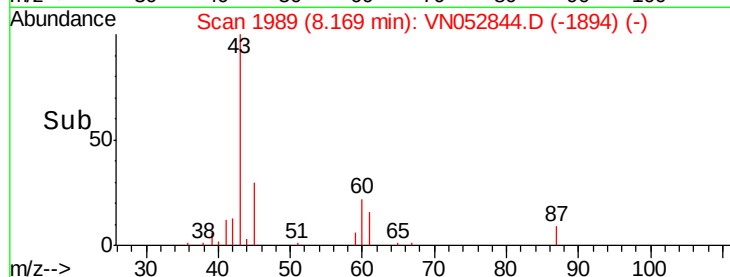
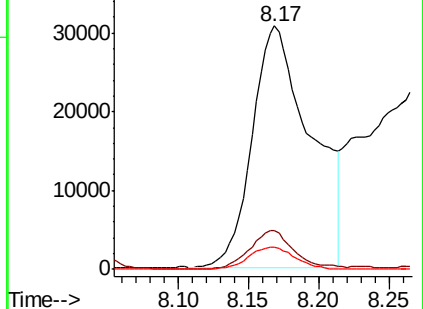
87 7.1 10.6 15.8#



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: 0.265 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052844.D

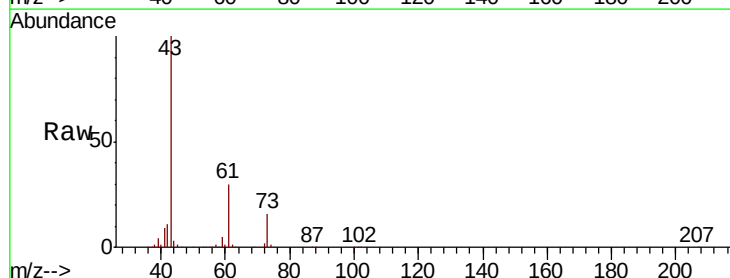
Acq: 12 Dec 2018 22:54

Tgt Ion: 63 Resp: 3375

Ion Ratio Lower Upper

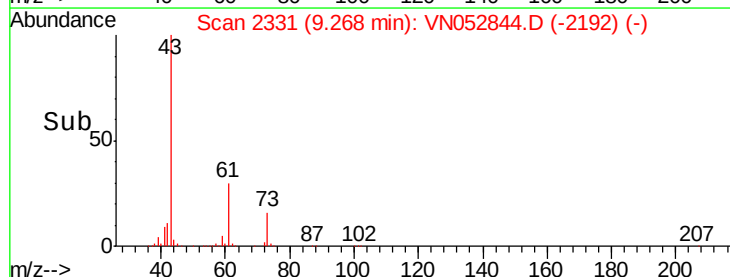
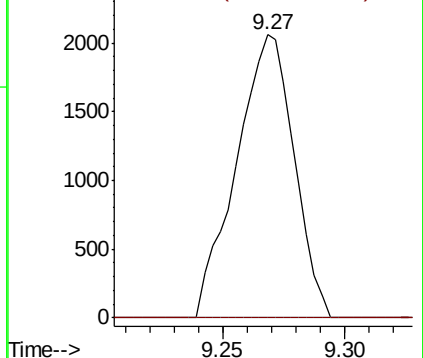
63 100

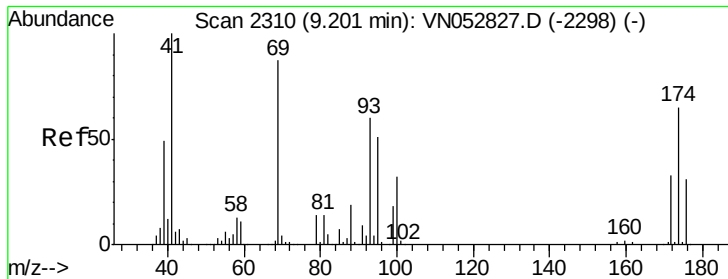
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

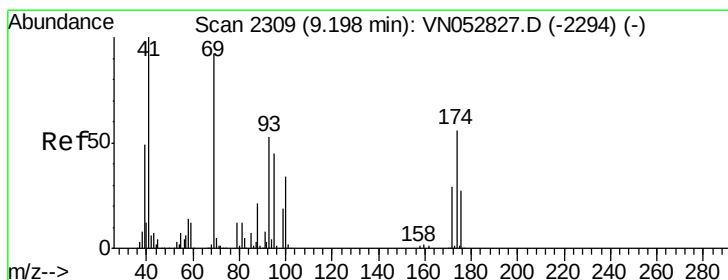
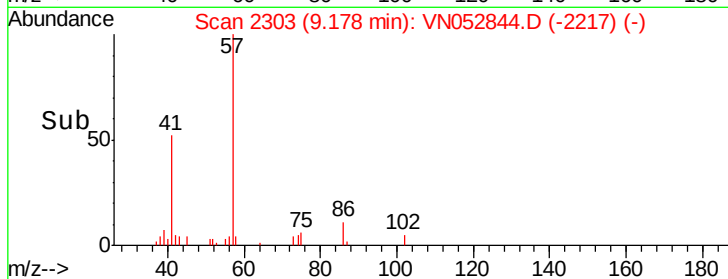
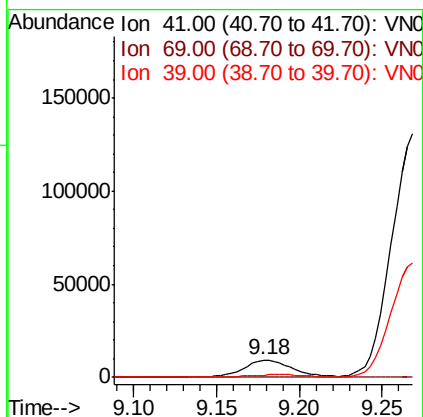
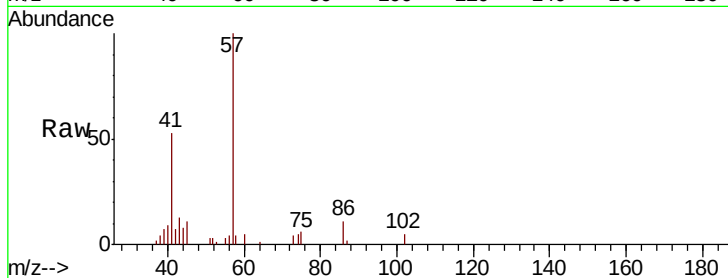




#48
Methvl methacrylate
Concen: 2.065 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

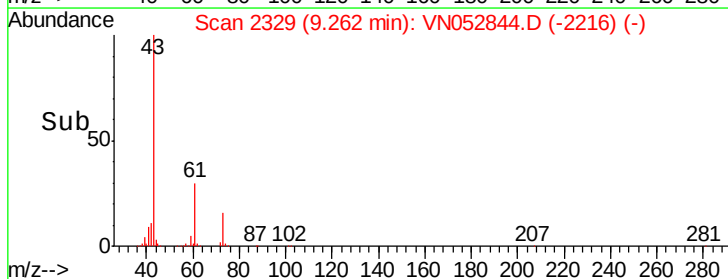
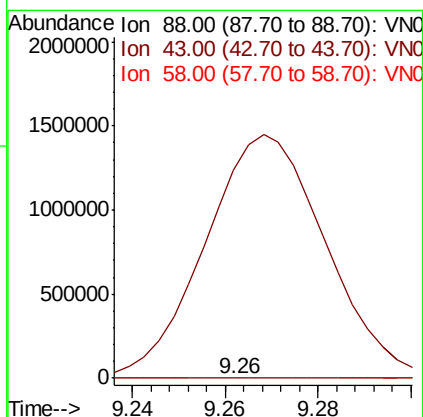
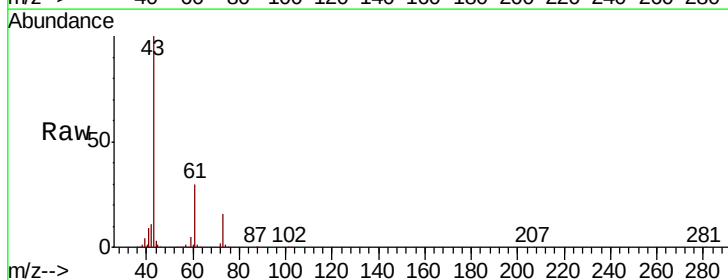
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#08

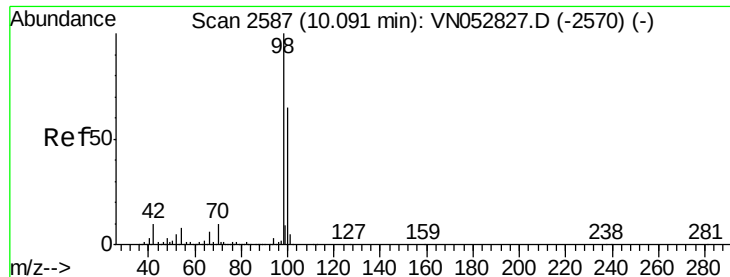
Tot Ion: 41 Resp: 18076
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 20.6 41.9 62.9#



#49
1,4-Dioxane
Concen: 3.351 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

Tgt Ion: 88 Resp: 333
Ion Ratio Lower Upper
88 100
43 794886.8 26.6 40.0#
58 3528.5 58.4 87.6#





#50

Toluene-d8

Concen: 3.351 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

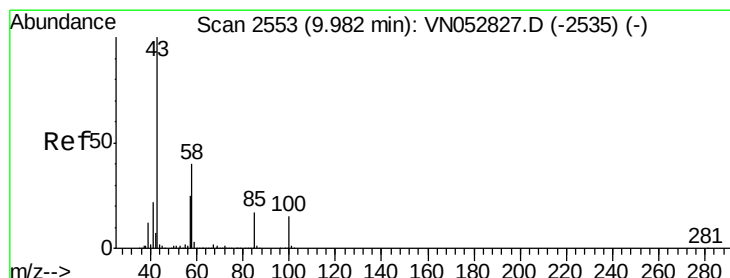
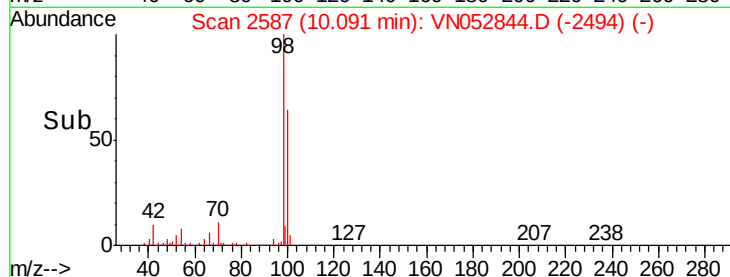
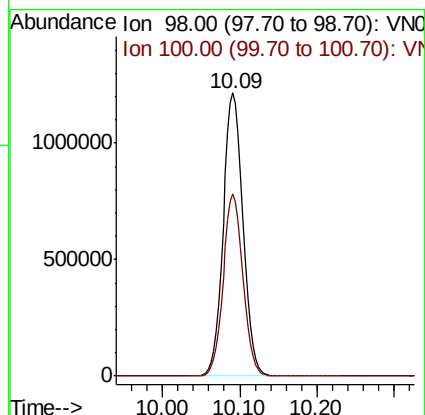
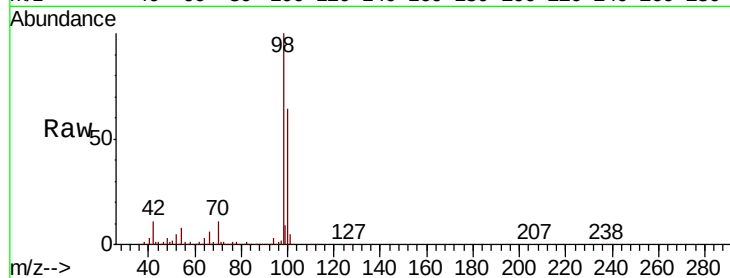
PB115564ZHE#08

Tot Ion: 98 Resp: 2170323

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 2.350 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052844.D

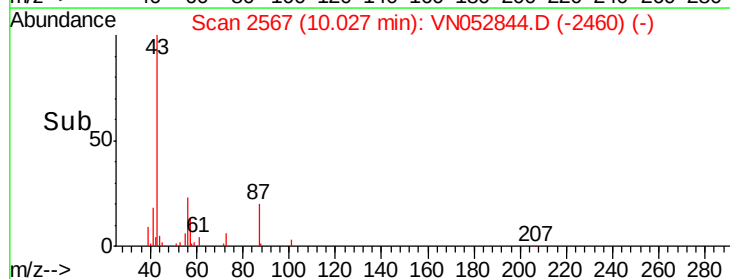
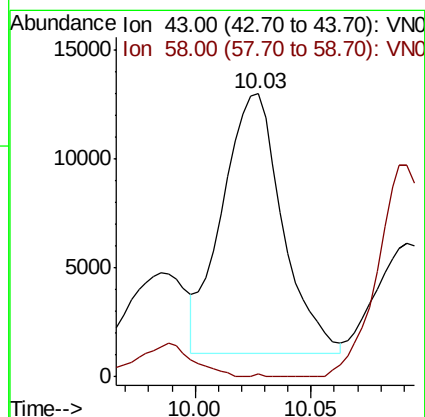
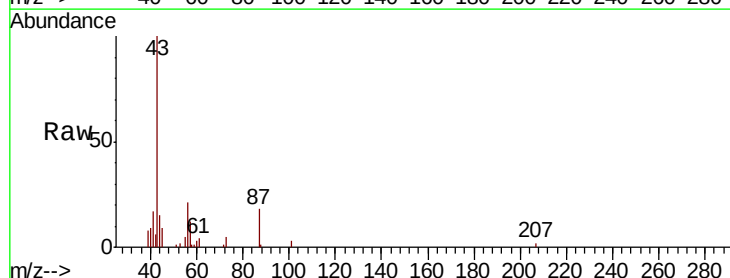
Acq: 12 Dec 2018 22:54

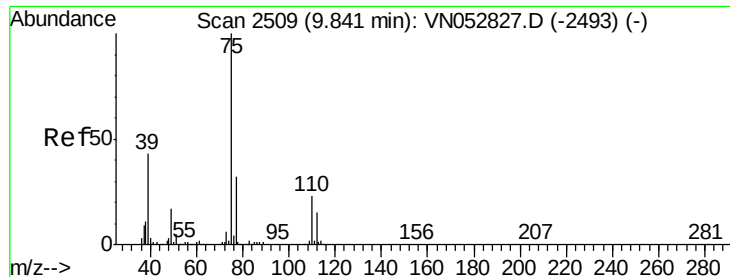
Tgt Ion: 43 Resp: 21513

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 7.505 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#08

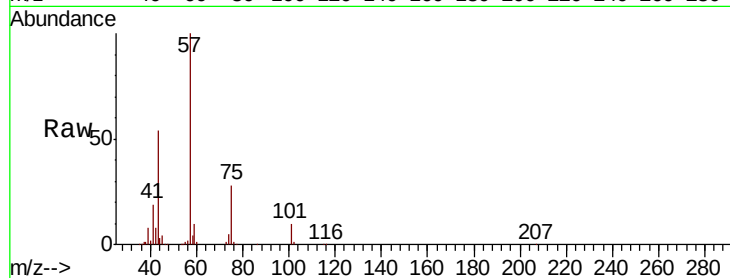
Tot Ion: 75 Resp: 137905

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

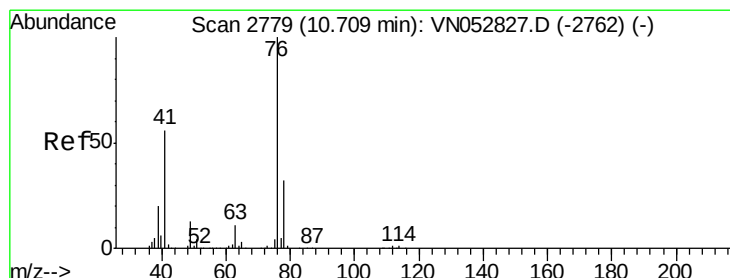
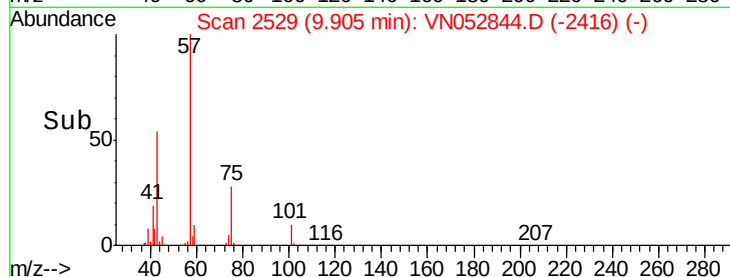
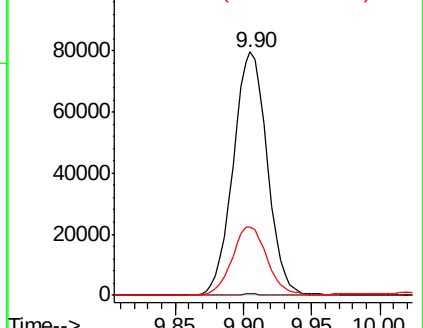
39 28.2 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.478 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052844.D

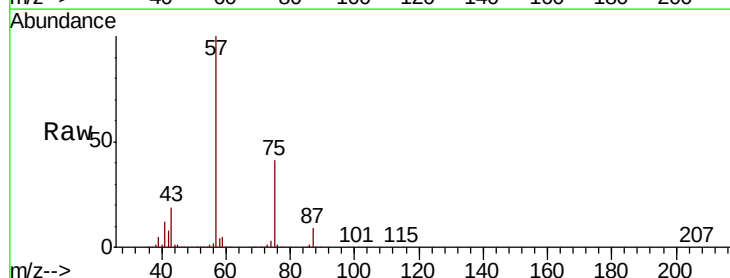
Acq: 12 Dec 2018 22:54

Tgt Ion: 76 Resp: 26662

Ion Ratio Lower Upper

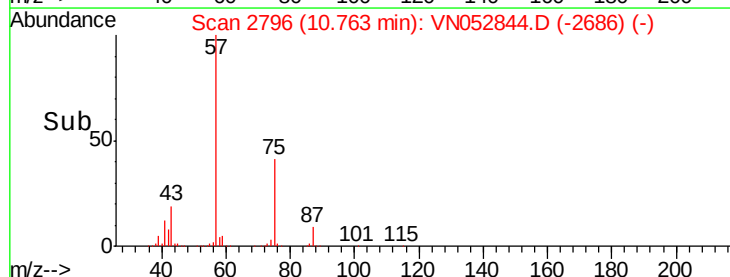
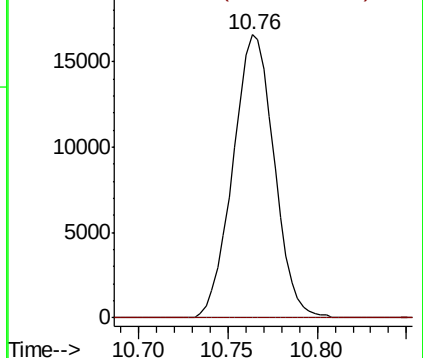
76 100

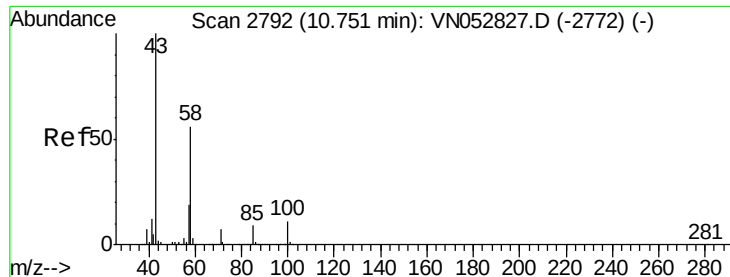
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

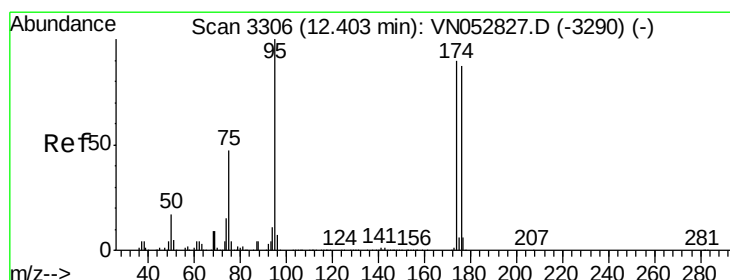
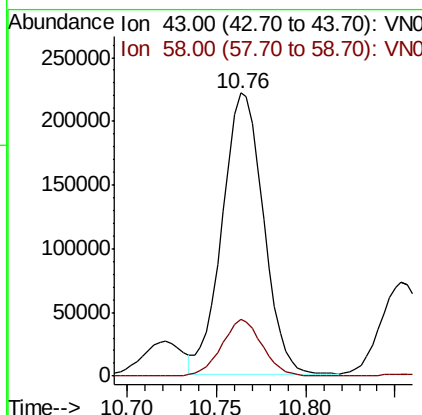
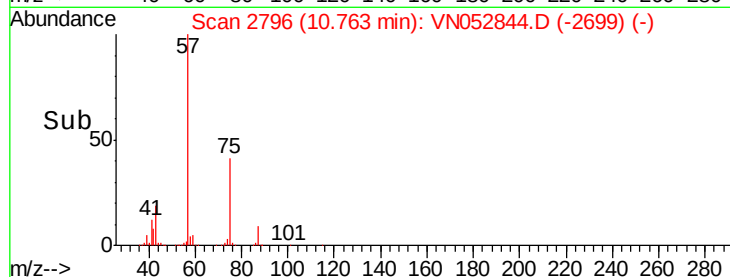
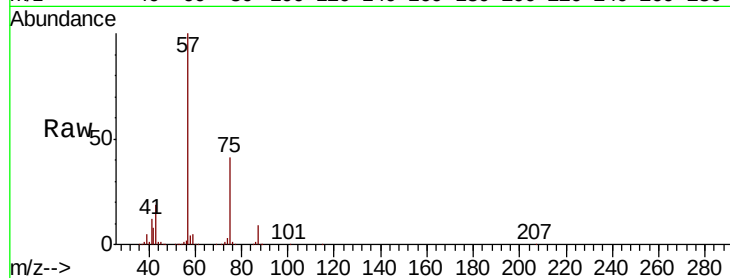




#59
2-Hexanone
Concen: 56.969 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

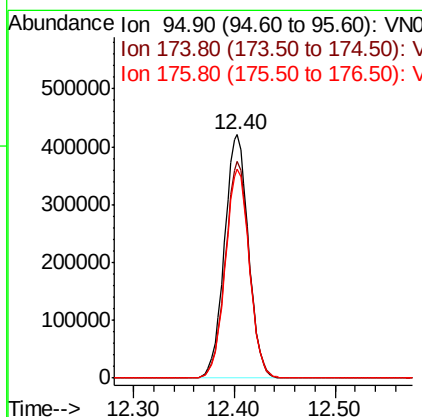
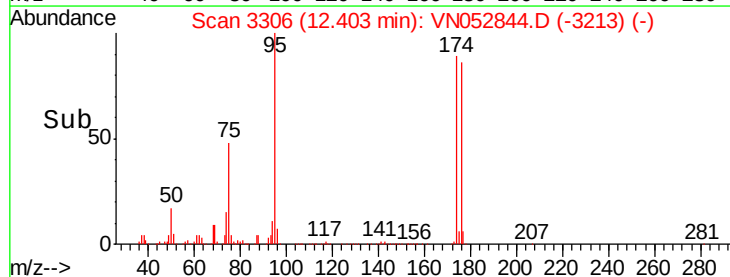
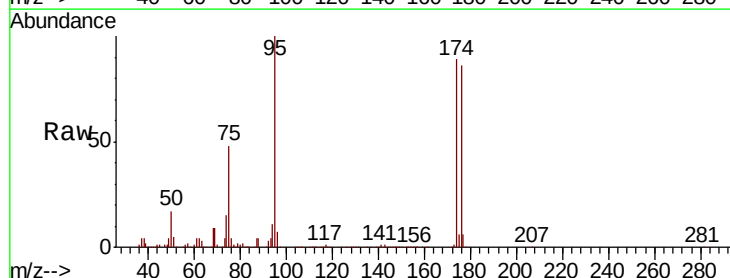
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#08

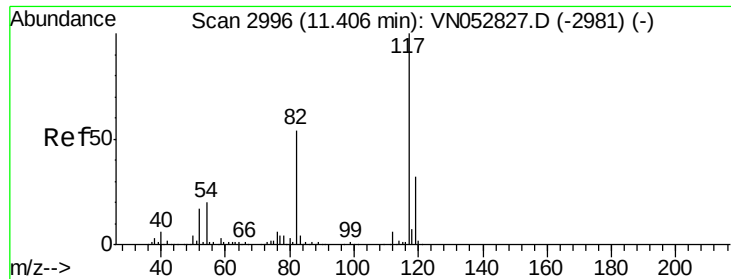
Tot Ion: 43 Resp: 357406
Ion Ratio Lower Upper
43 100
58 19.7 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

Tgt Ion: 95 Resp: 699067
Ion Ratio Lower Upper
95 100
174 88.6 0.0 178.8
176 85.9 0.0 173.8

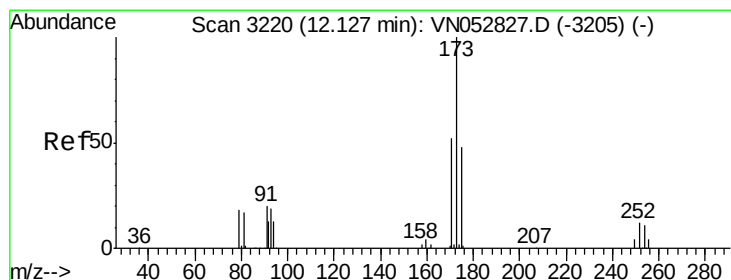
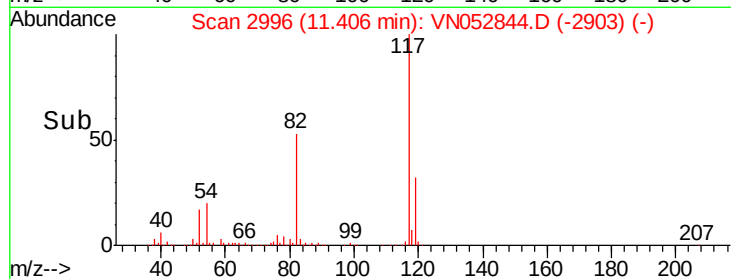
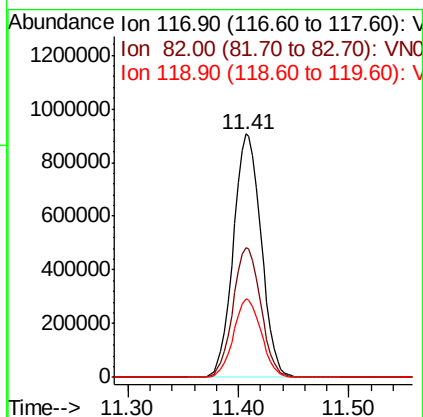
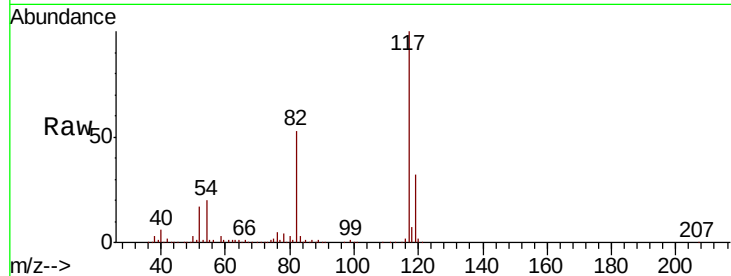




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

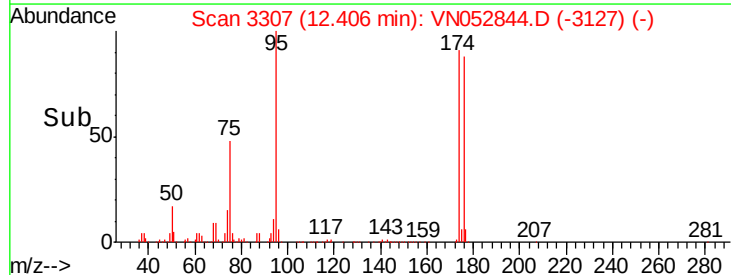
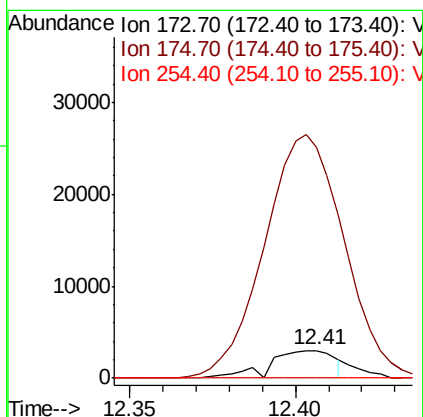
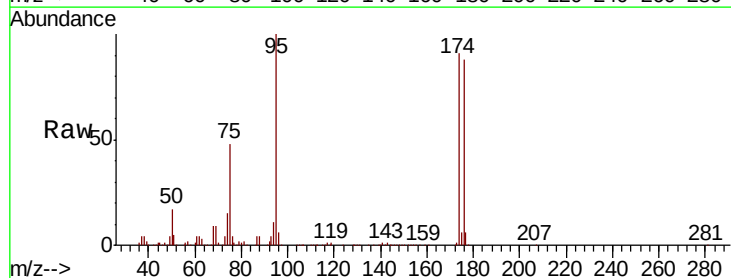
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#08

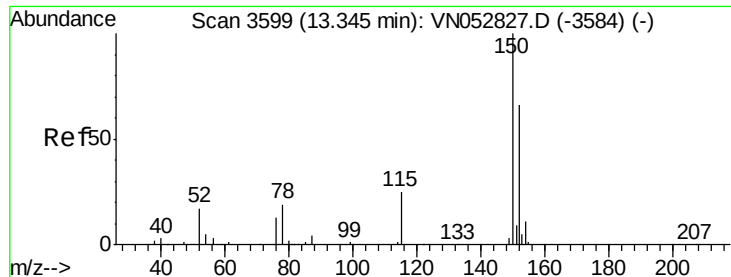
Tot Ion:117 Resp: 1580882
Ion Ratio Lower Upper
117 100
82 53.5 42.8 64.2
119 32.0 25.5 38.3



#71
Bromoform
Concen: 0.526 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN052844.D
Acq: 12 Dec 2018 22:54

Tgt Ion:173 Resp: 4079
Ion Ratio Lower Upper
173 100
175 932.4 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#08

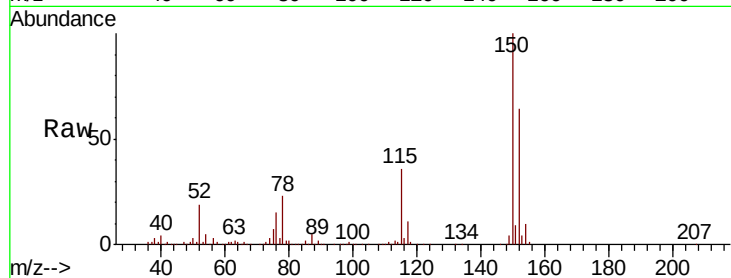
Tot Ion:152 Resp: 630291

Ion Ratio Lower Upper

152 100

115 56.0 28.3 85.0

150 155.6 0.0 347.8

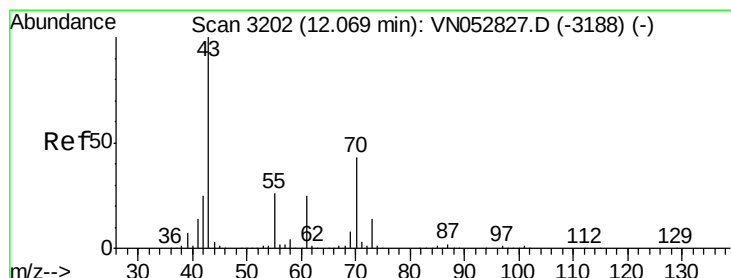
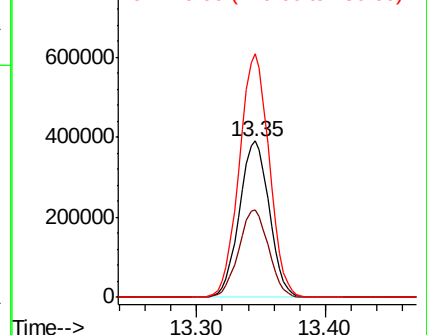
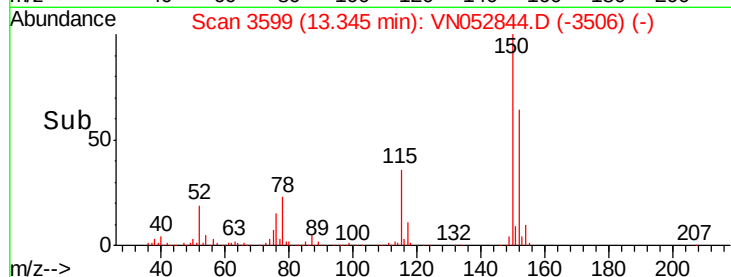


Abundance

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: 3.441 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Tgt Ion: 43 Resp: 44456

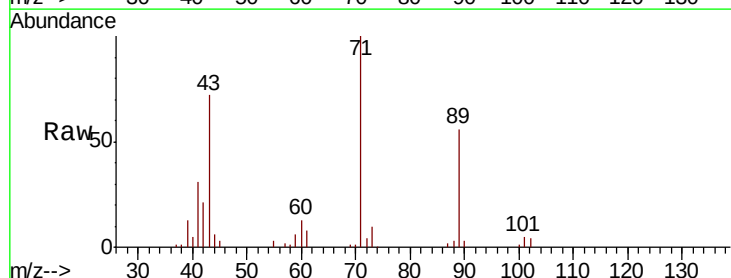
Ion Ratio Lower Upper

43 100

70 2.0 34.2 51.4#

55 4.2 20.3 30.5#

61 10.6 20.0 30.0#



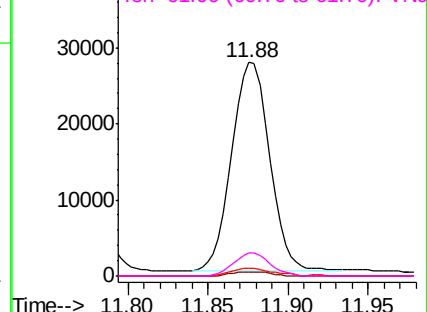
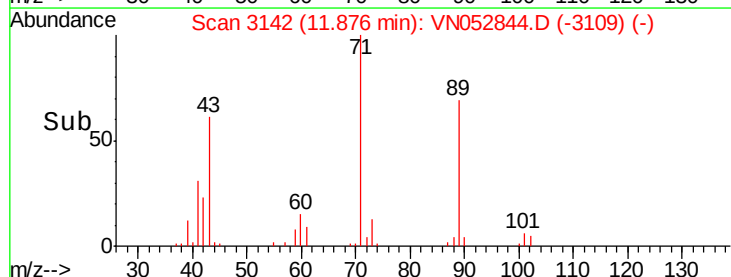
Abundance

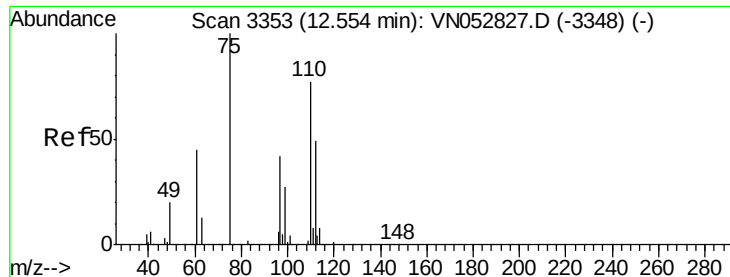
Ion 43.00 (42.70 to 43.70): V

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





#76

1,2,3-Trichloropropane

Concen: 36.024 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

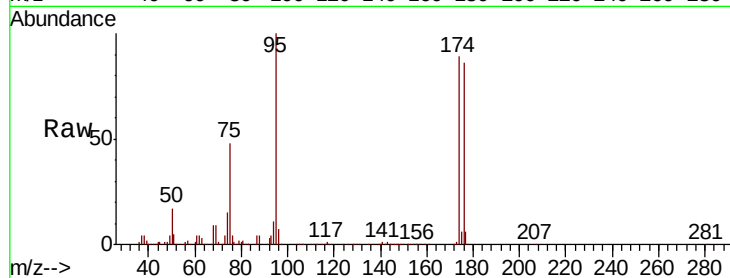
PB115564ZHE#08

Tot Ion: 75 Resp: 334995

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052827.D (-3348) (-)

12.40

200000

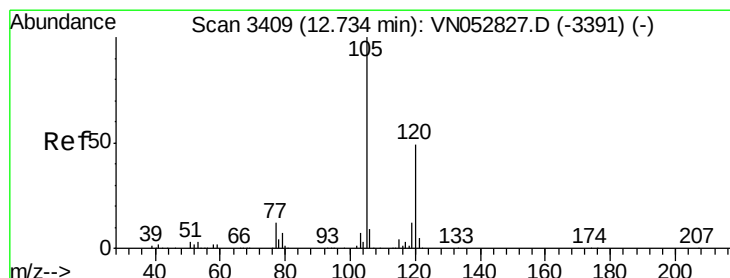
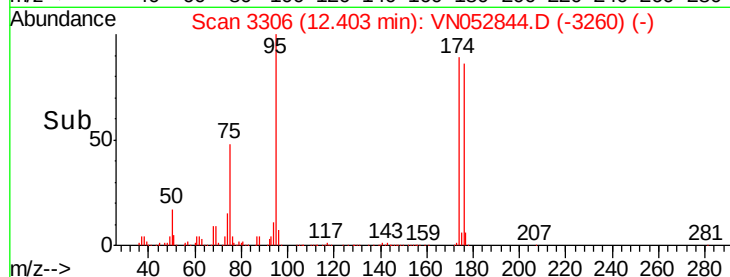
150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.766 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052844.D

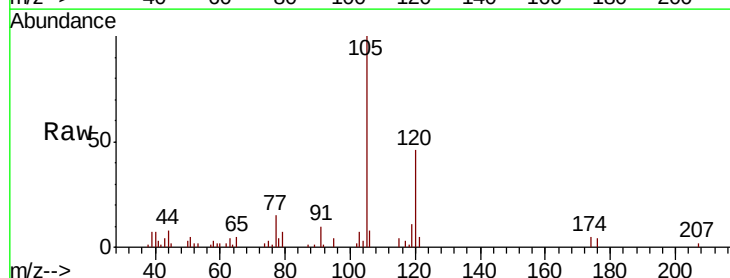
Acq: 12 Dec 2018 22:54

Tgt Ion: 105 Resp: 29102

Ion Ratio Lower Upper

105 100

120 47.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052827.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052827.D (-3391) (-)

12.73

20000

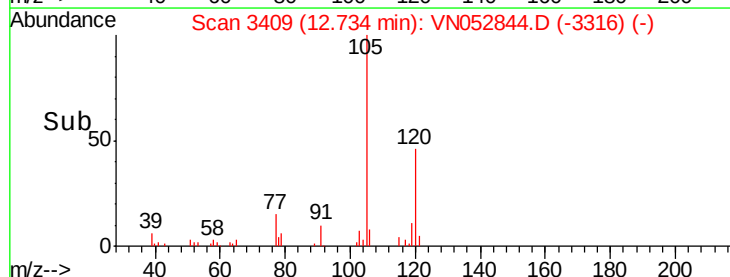
15000

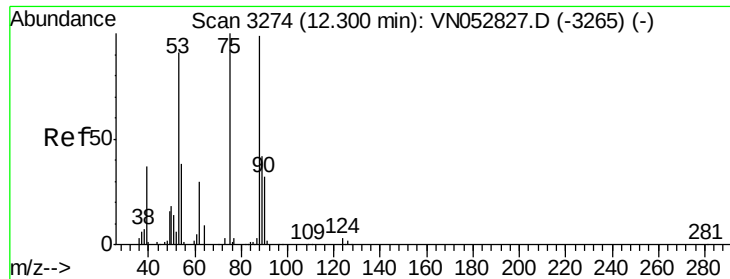
10000

5000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 115.726 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052844.D

Acq: 12 Dec 2018 22:54

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#08

Tot Ion: 75 Resp: 334995

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

