

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053189.D
 Acq On : 24 Dec 2018 17:00
 Operator : MD\SY
 Sample : J6511-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-59(0-5)-GRAB

Quant Time: Dec 24 22:31:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1210940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1884030	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1632071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	622356	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	606836	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
35) Dibromofluoromethane	7.59	113	521080	60.55	ug/l	0.00
Spiked Amount			Recovery	=	121.10%	
50) Toluene-d8	10.09	98	2270694	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
62) 4-Bromofluorobenzene	12.40	95	719921	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	

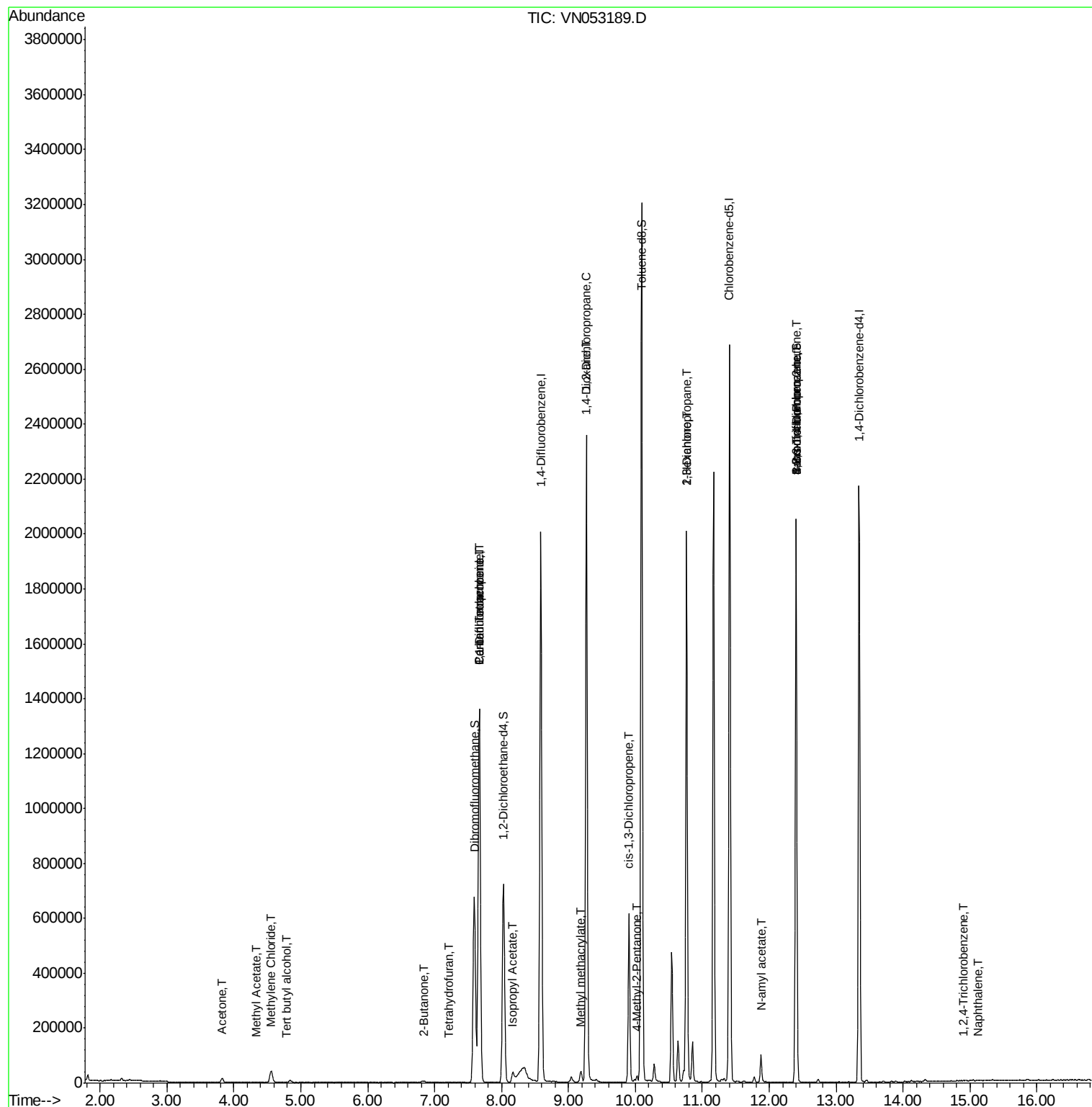
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	193	0.257	ug/l #	74
16) Acetone	3.82	43	26774	11.112	ug/l	96
18) Methyl Acetate	4.33	43	2729	1.237	ug/l #	81
20) Methylene Chloride	4.55	84	32453	2.469	ug/l	97
25) 2-Butanone	6.84	43	6062	1.499	ug/l	98
29) Tetrahydrofuran	7.22	42	1393	0.461	ug/l #	72
31) Cyclohexane	7.67	56	19909	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	79741	4.410	ug/l #	48
38) Carbon Tetrachloride	7.67	117	103958	6.272	ug/l #	16
43) Isopropyl Acetate	8.17	43	52257	1.665	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	2906	0.207	ug/l #	44
48) Methyl methacrylate	9.18	41	13099	1.337	ug/l #	12
49) 1,4-Dioxane	9.26	88	366	2.954	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17553	1.795	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	116850	5.580	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	21941	1.100	ug/l #	42
59) 2-Hexanone	10.76	43	286171	43.265	ug/l #	50
71) Bromoform	12.40	173	4428	0.487	ug/l #	1
74) N-amyl acetate	11.88	43	30043	2.222	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	330837	31.578	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	330837	101.781	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.90	180	335	0.626	ug/l #	75
95) Naphthalene	15.14	128	898	1.182	ug/l #	69

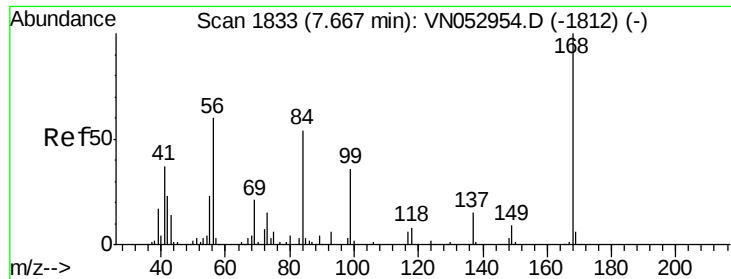
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampleId :

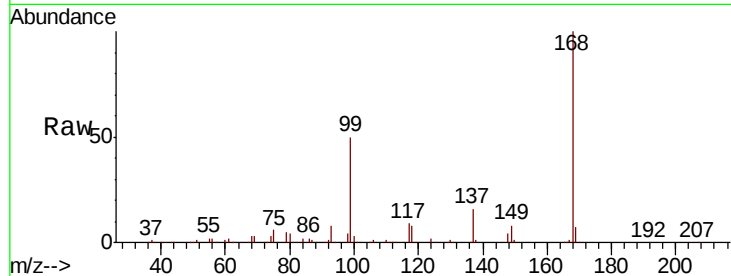
SB-59(0-5)-GRAB

Tot Ion:168 Resp: 1210940

Ion Ratio Lower Upper

168 100

99 49.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

600000

500000

400000

300000

200000

100000

0

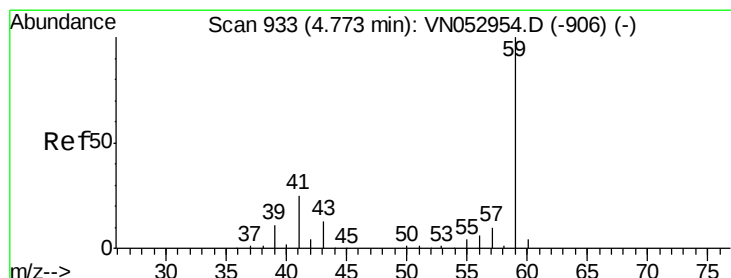
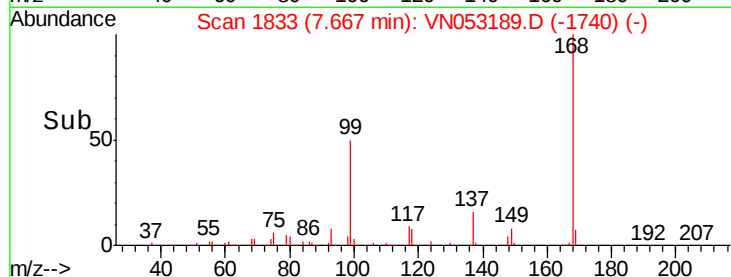
7.67

7.60

7.70

7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.257 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053189.D

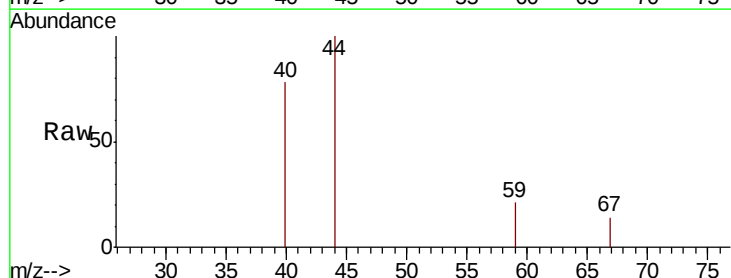
Acq: 24 Dec 2018 17:00

Tgt Ion: 59 Resp: 193

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

250

200

150

100

50

0

4.78

4.76

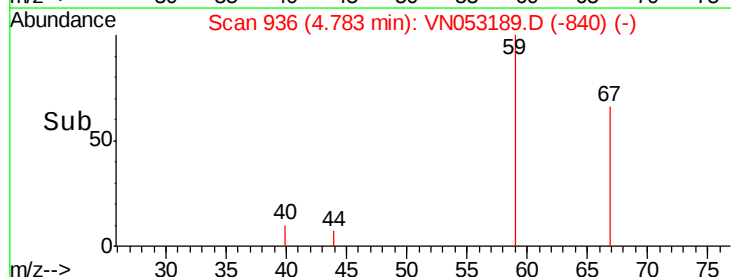
4.77

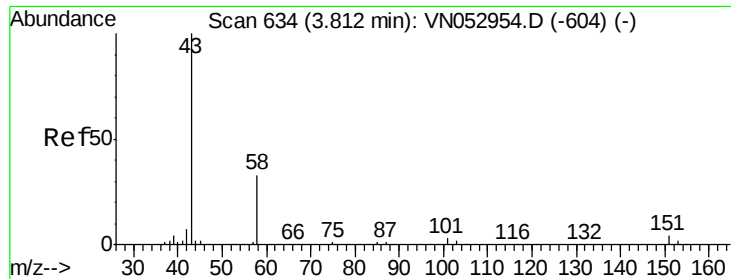
4.78

4.79

4.80

Time-->





#16

Acetone

Concen: 11.112 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampleId :

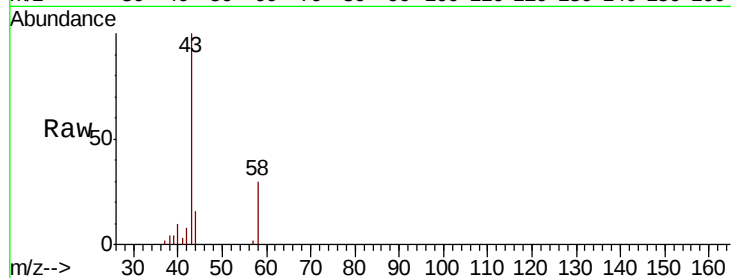
SB-59(0-5)-GRAB

Tot Ion: 43 Resp: 26774

Ion Ratio Lower Upper

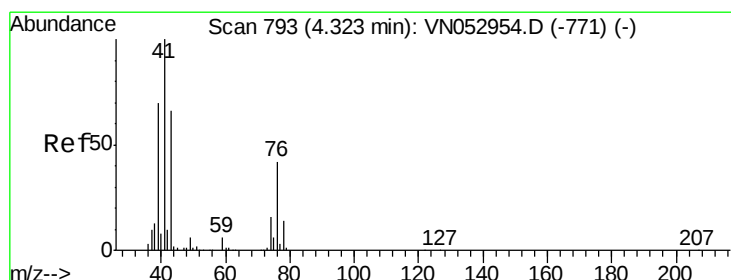
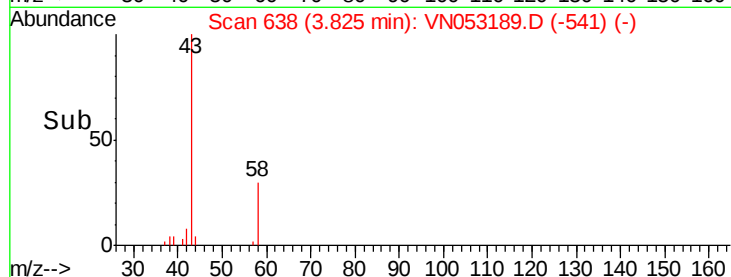
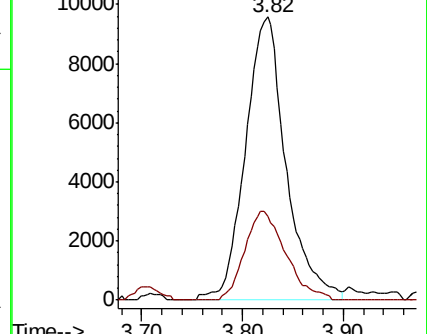
43 100

58 29.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.237 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053189.D

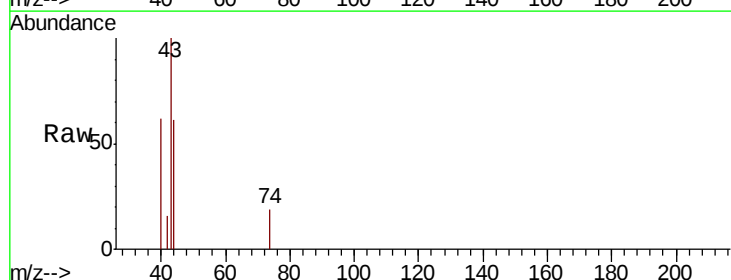
Acq: 24 Dec 2018 17:00

Tgt Ion: 43 Resp: 2729

Ion Ratio Lower Upper

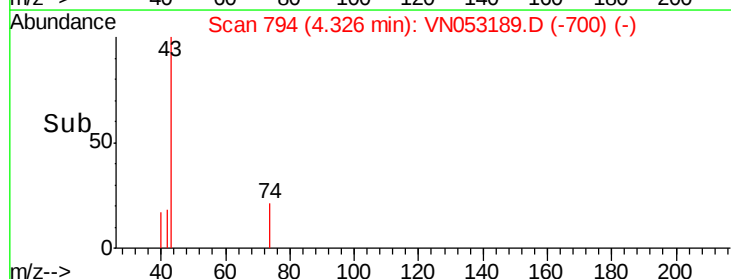
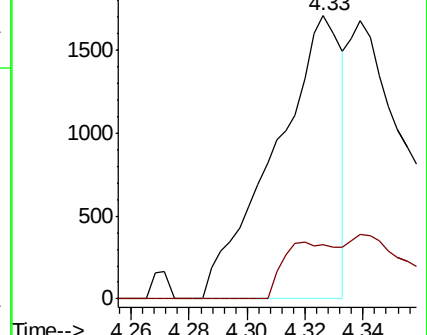
43 100

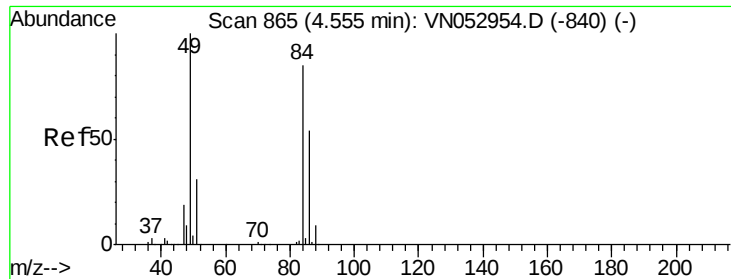
74 14.7 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

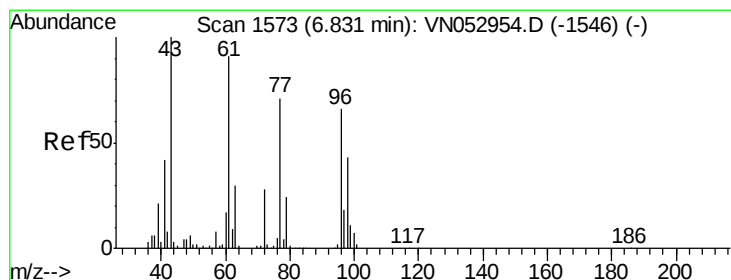
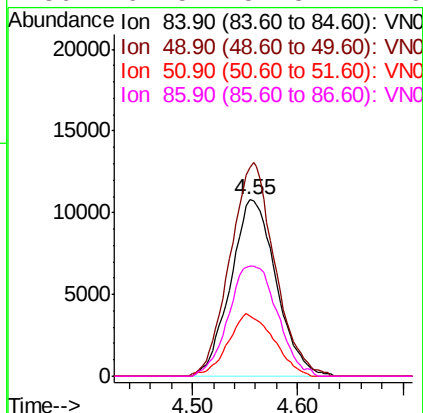
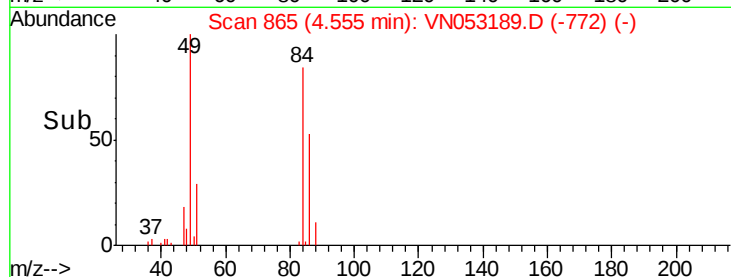
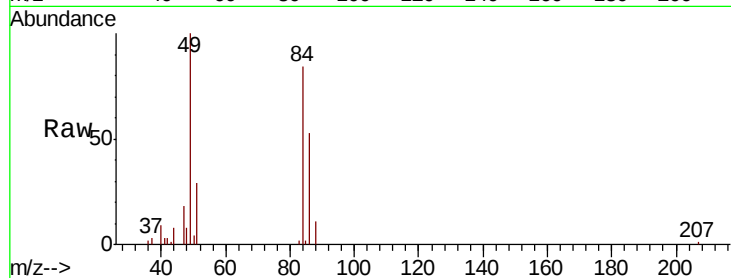




#20
Methvlene Chloride
Concen: 2.469 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

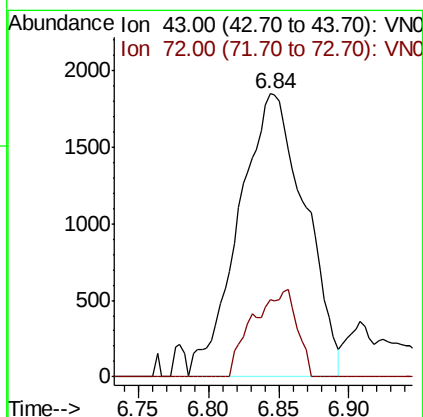
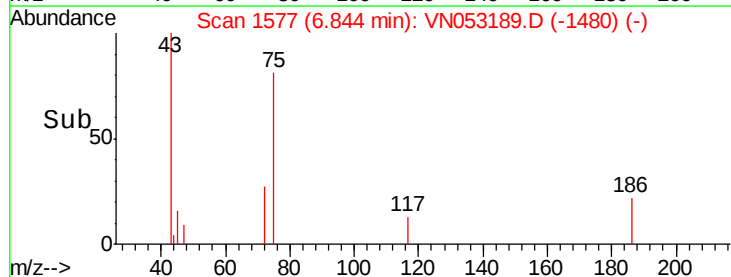
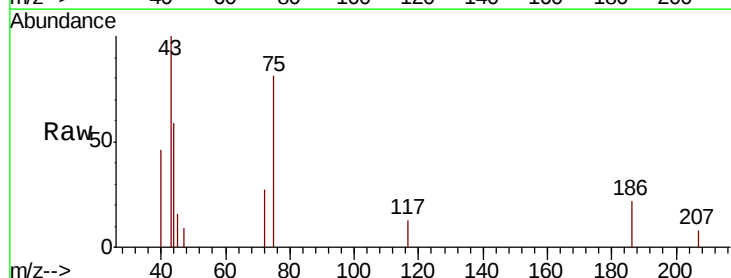
Instrument :
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SB-59(0-5)-GRAB

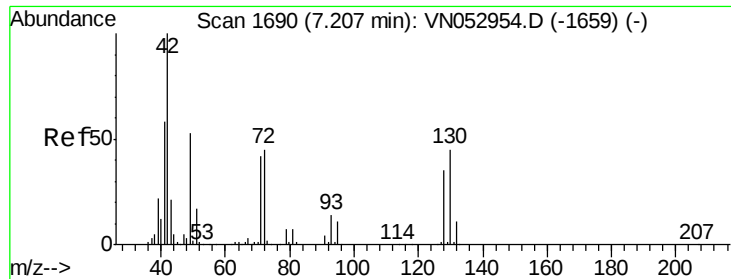
Tot Ion: 84 Resp: 32453
Ion Ratio Lower Upper
84 100
49 118.7 96.8 145.2
51 34.1 29.9 44.9
86 62.5 51.8 77.6



#25
2-Butanone
Concen: 1.499 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Tgt Ion: 43 Resp: 6062
Ion Ratio Lower Upper
43 100
72 27.4 21.0 31.6

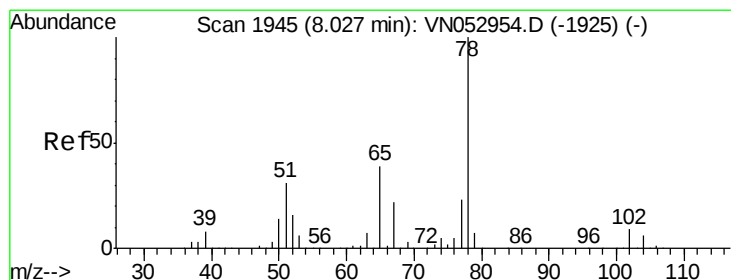
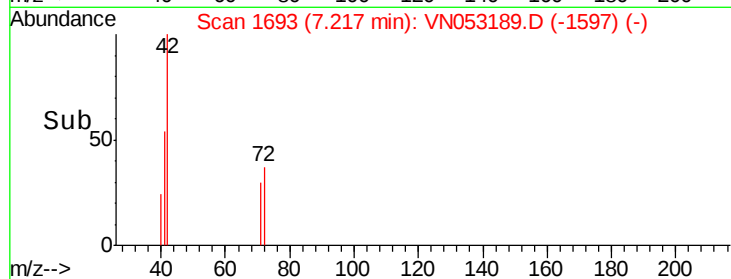
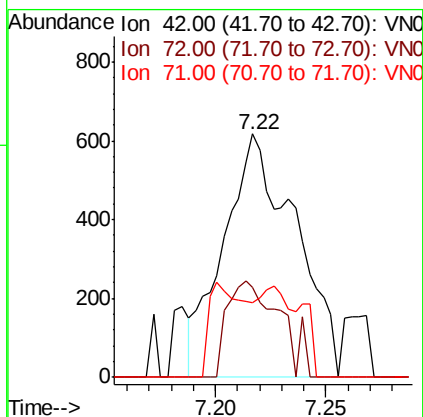
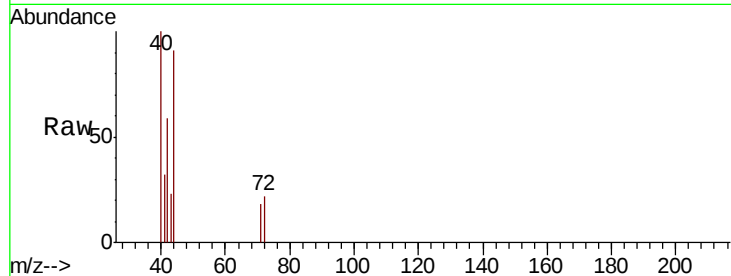




#29
Tetrahydrofuran
Concen: 0.461 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

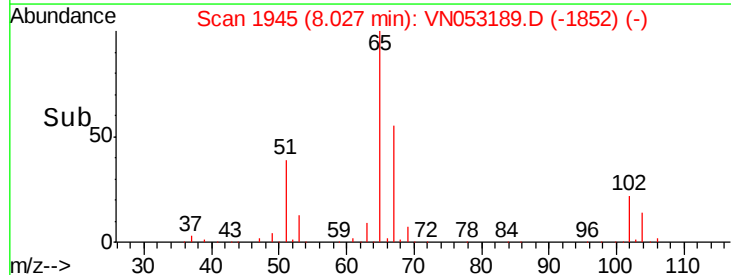
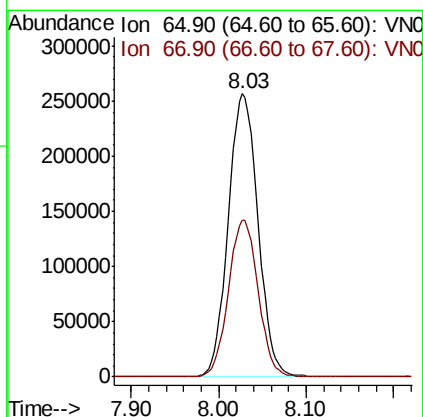
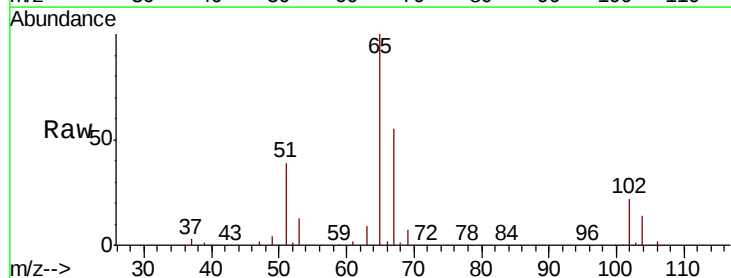
Instrument :
MSVOA_N
ClientSampleId :
SB-59(0-5)-GRAB

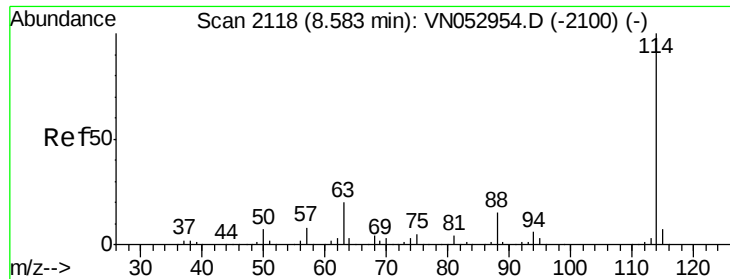
Tot Ion: 42 Resp: 1393
Ion Ratio Lower Upper
42 100
72 28.9 34.7 52.1#
71 19.9 32.3 48.5#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Tgt Ion: 65 Resp: 606836
Ion Ratio Lower Upper
65 100
67 55.3 0.0 110.4

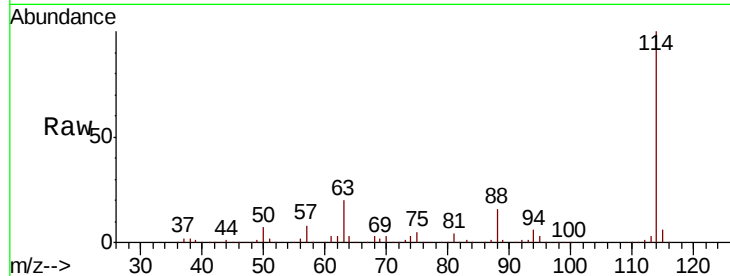




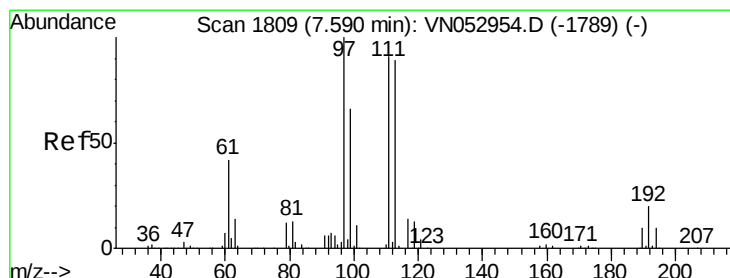
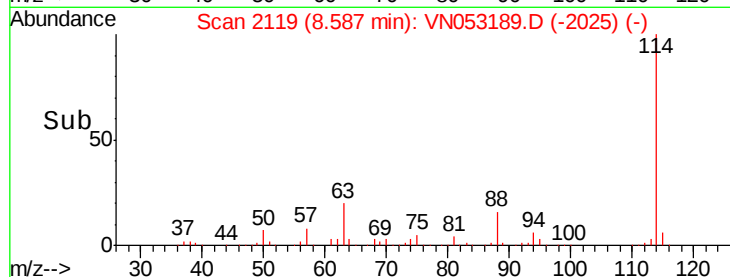
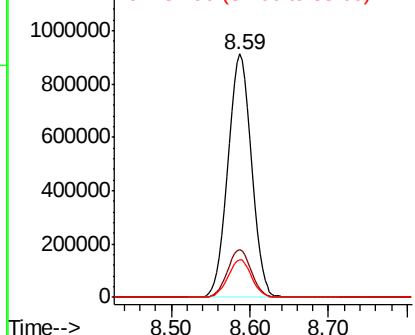
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Instrument :
MSVOA_N
ClientSampleId :
SB-59(0-5)-GRAB

Tot Ion:114 Resp: 1884030
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.8
88 15.5 0.0 31.0

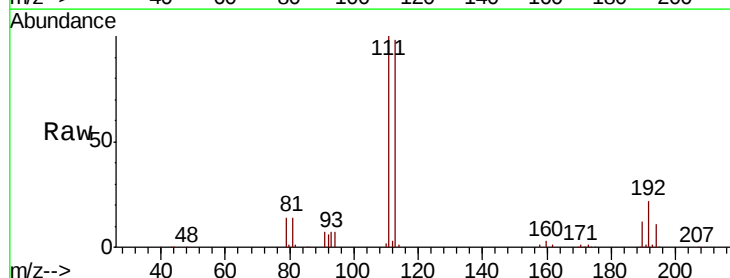


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VNO
Ion 87.90 (87.60 to 88.60): VNO

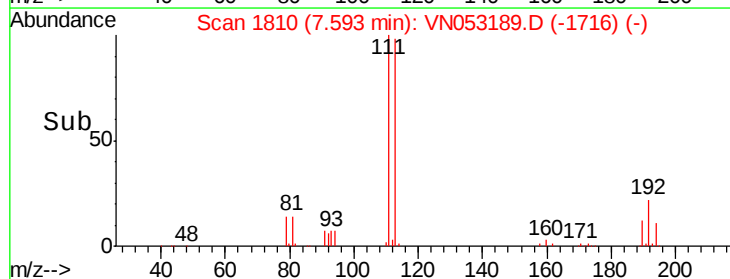
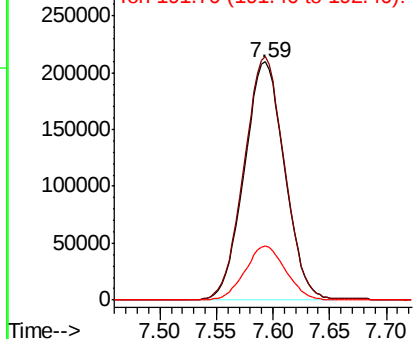


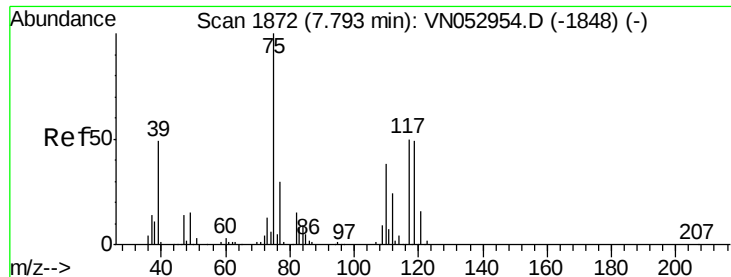
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Tgt Ion:113 Resp: 521080
Ion Ratio Lower Upper
113 100
111 102.7 83.0 124.4
192 22.8 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

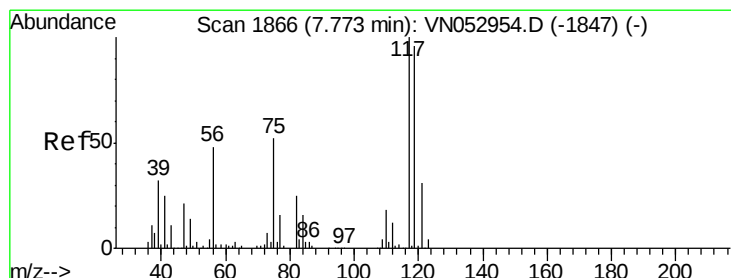
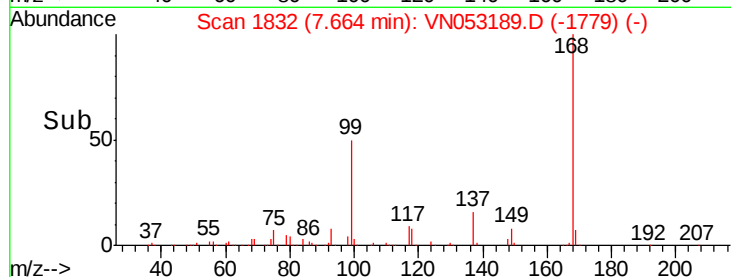
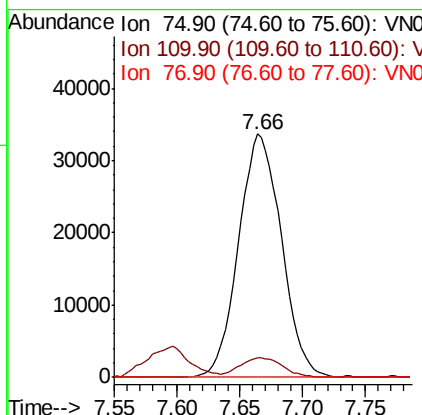
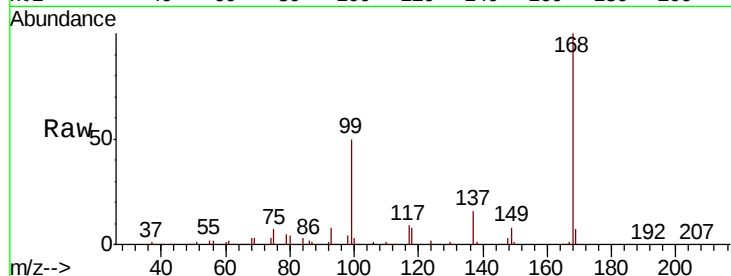




#36
 1,1-Dichloropropene
 Concen: 4.410 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053189.D
 Acq: 24 Dec 2018 17:00

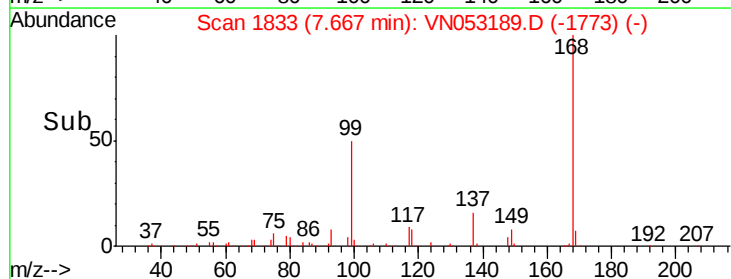
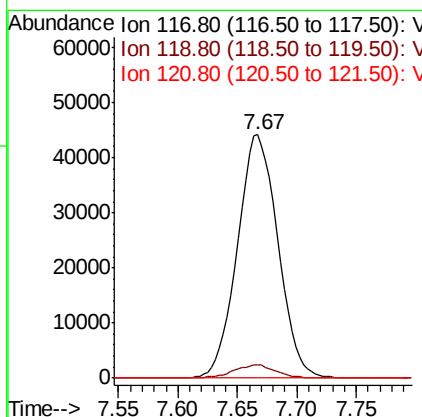
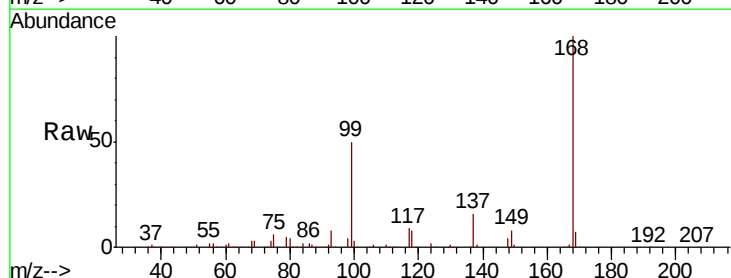
Instrument :
 MSVOA_N
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 SB-59(0-5)-GRAB

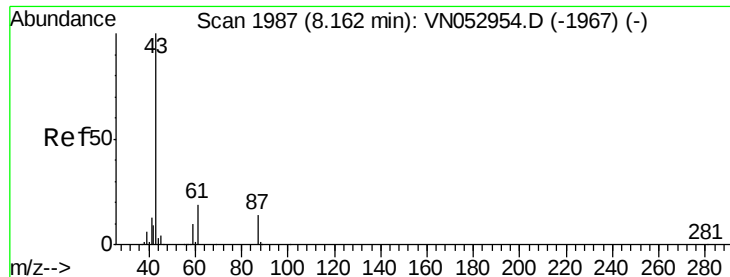
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.272 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053189.D
 Acq: 24 Dec 2018 17:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 1.665 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampleId :

SB-59(0-5)-GRAB

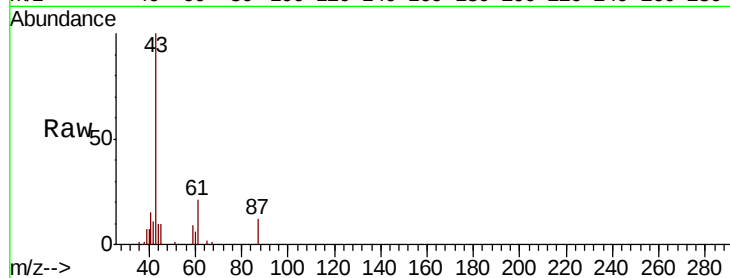
Tot Ion: 43 Resp: 52257

Ion Ratio Lower Upper

43 100

61 16.8 22.9 34.3#

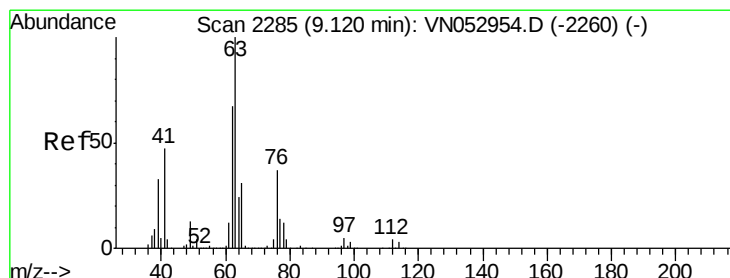
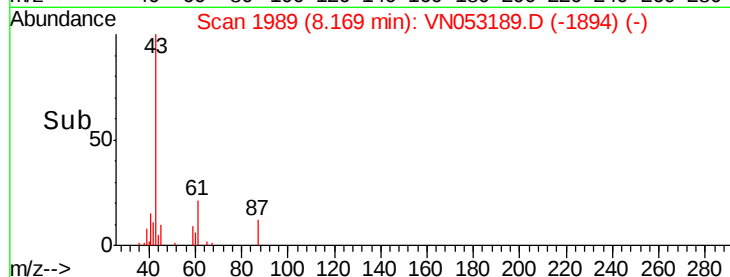
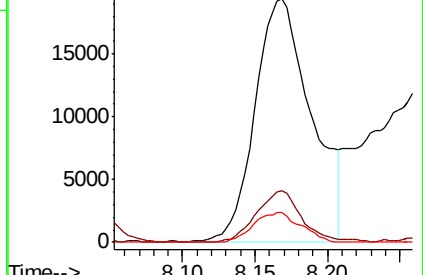
87 10.2 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN053189.D (-1989) (-)

Ion 61.00 (60.70 to 61.70): VN053189.D (-1989) (-)

Ion 87.00 (86.70 to 87.70): VN053189.D (-1989) (-)



#45

1,2-Dichloropropane

Concen: 0.207 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053189.D

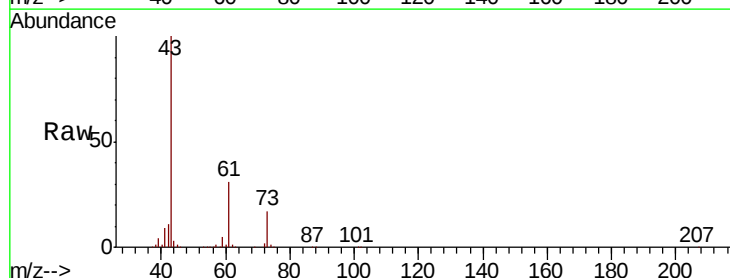
Acq: 24 Dec 2018 17:00

Tgt Ion: 63 Resp: 2906

Ion Ratio Lower Upper

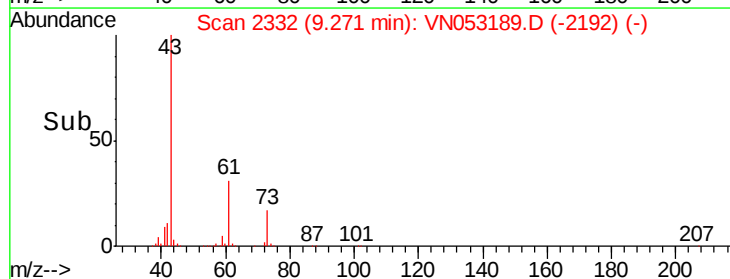
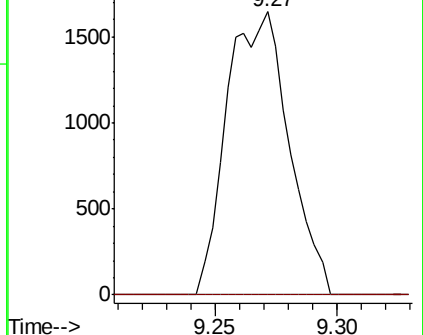
63 100

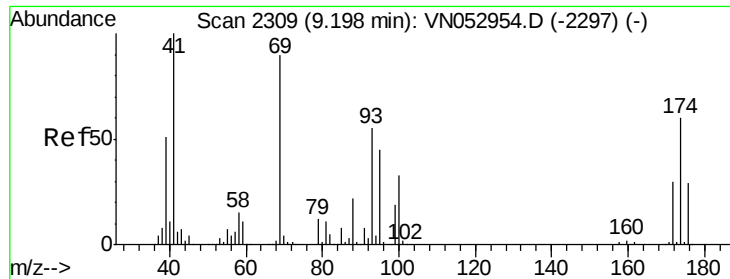
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN053189.D (-2332) (-)

Ion 64.90 (64.60 to 65.60): VN053189.D (-2332) (-)

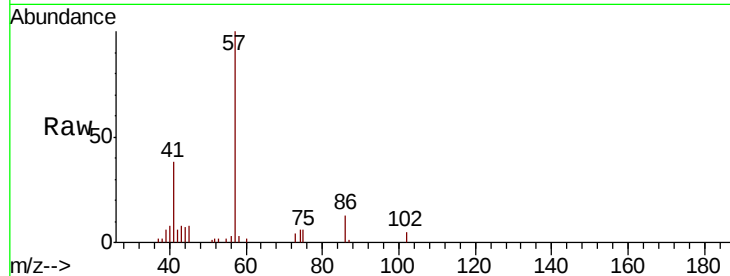




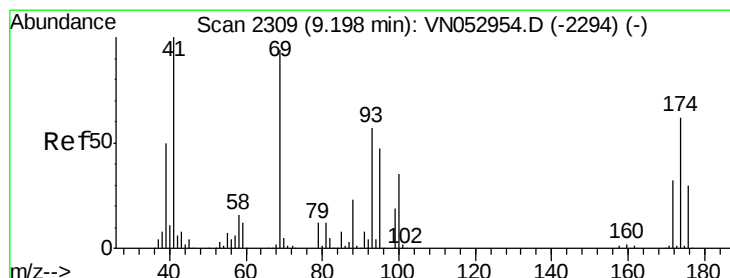
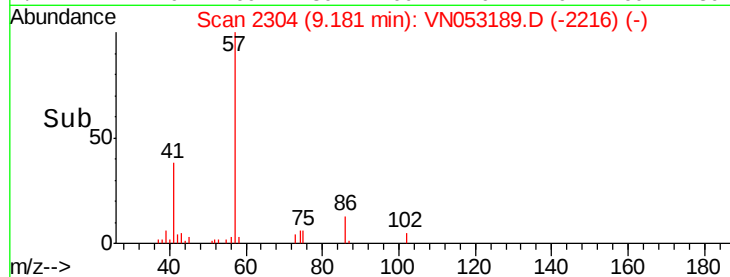
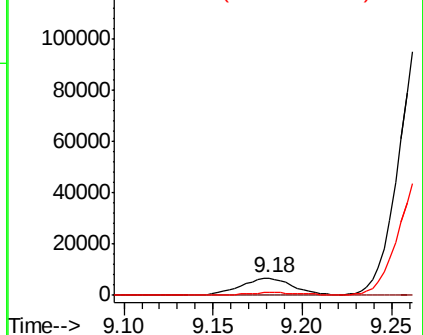
#48
Methvl methacrylate
Concen: 1.337 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Instrument :
MSVOA_N
ClientSampleId :
SB-59(0-5)-GRAB

Tot Ion: 41 Resp: 13099
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#

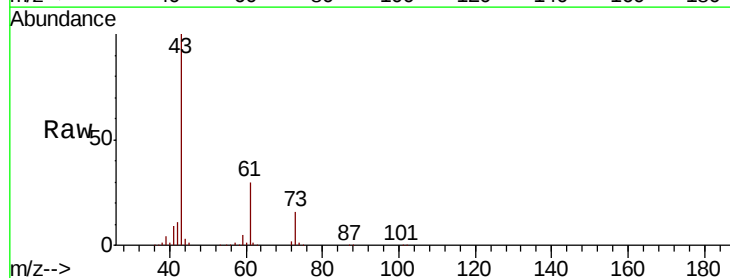


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

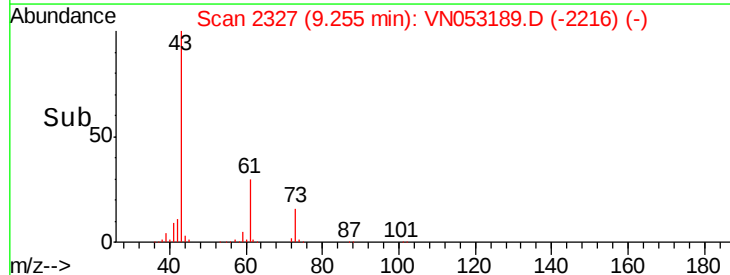
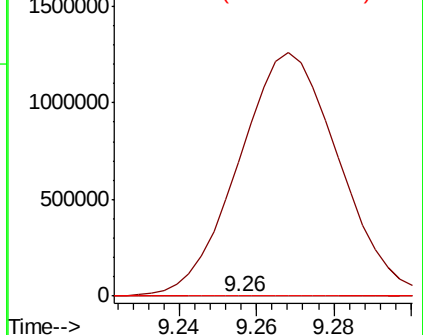


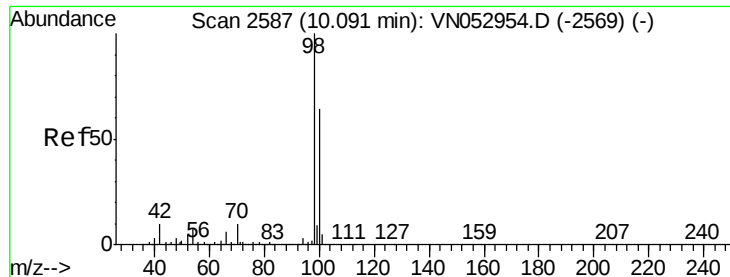
#49
1,4-Dioxane
Concen: 2.954 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.06 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Tgt Ion: 88 Resp: 366
Ion Ratio Lower Upper
88 100
43 628027.9 26.6 40.0#
58 2807.9 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 2.954 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampled :

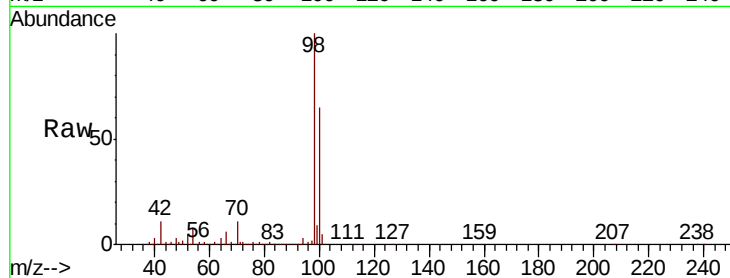
SB-59(0-5)-GRAB

Tot Ion: 98 Resp: 2270694

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN053189.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053189.D (-2494) (-)

10.09

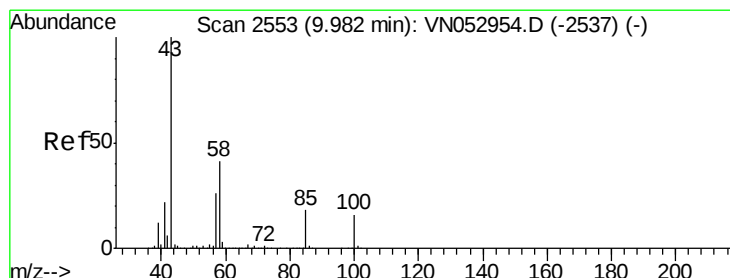
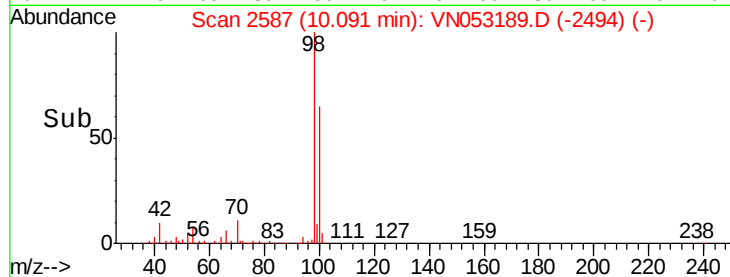
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.795 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053189.D

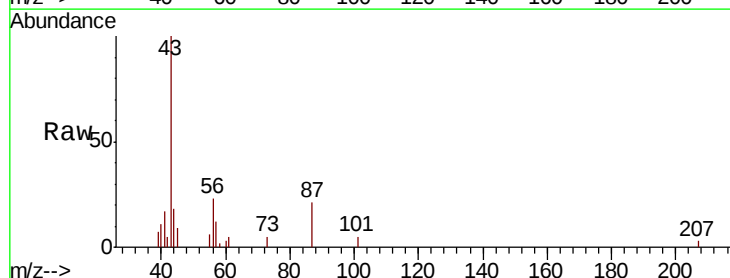
Acq: 24 Dec 2018 17:00

Tgt Ion: 43 Resp: 17553

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN053189.D (-2460) (-)

Ion 58.00 (57.70 to 58.70): VN053189.D (-2460) (-)

10.02

12000

10000

8000

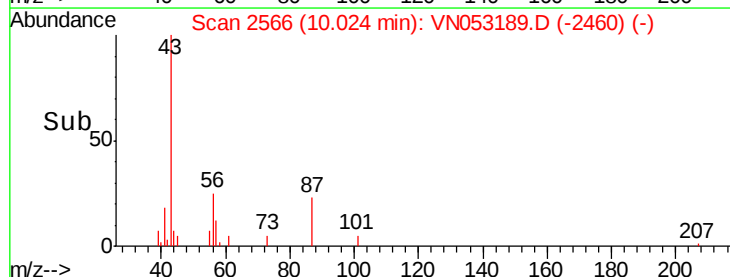
6000

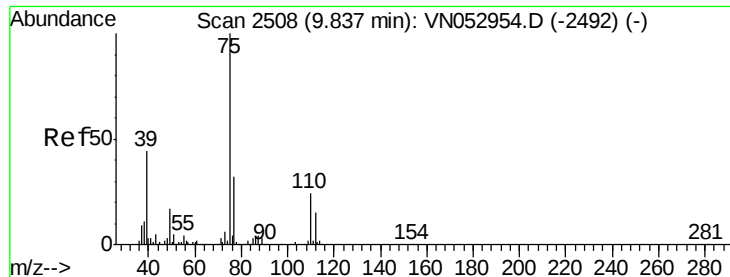
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.580 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampleId :

SB-59(0-5)-GRAB

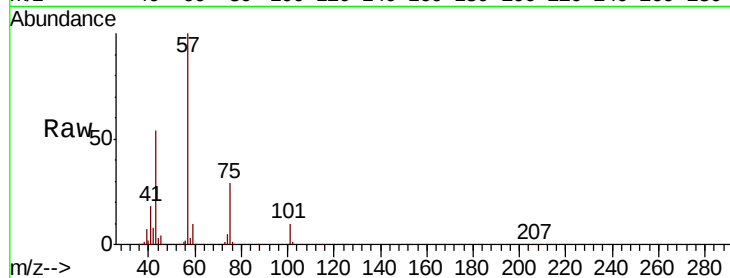
Tot Ion: 75 Resp: 116850

Ion Ratio Lower Upper

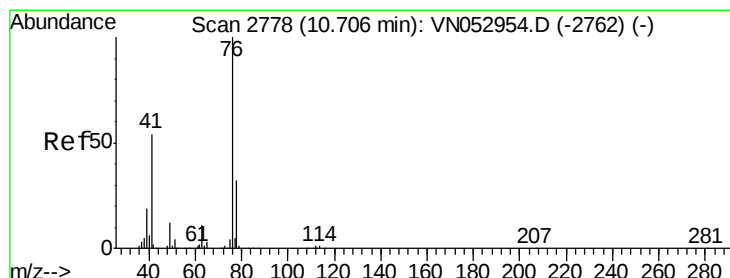
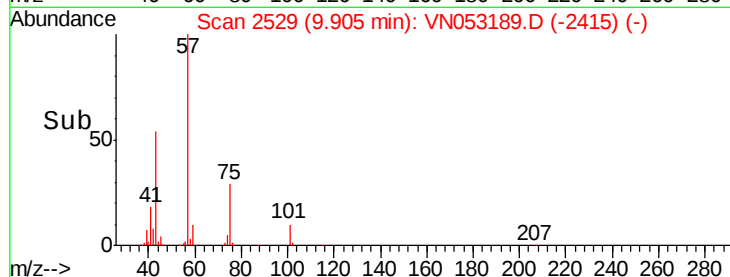
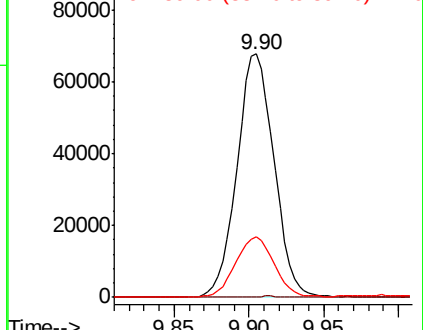
75 100

77 0.4 25.8 38.8#

39 24.7 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 76.90 (76.60 to 77.60): VNC
Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 1.100 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053189.D

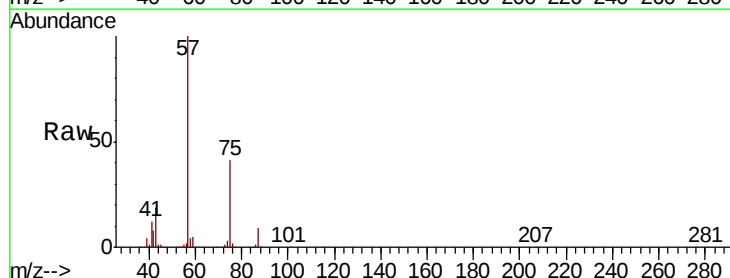
Acq: 24 Dec 2018 17:00

Tgt Ion: 76 Resp: 21941

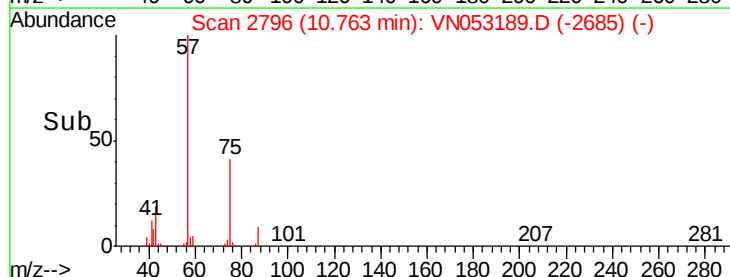
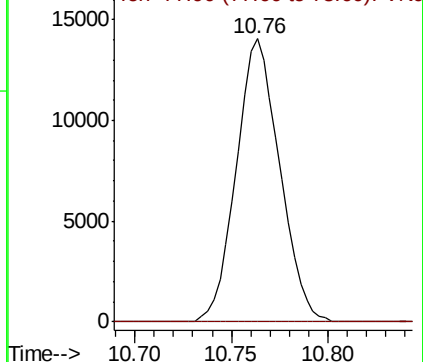
Ion Ratio Lower Upper

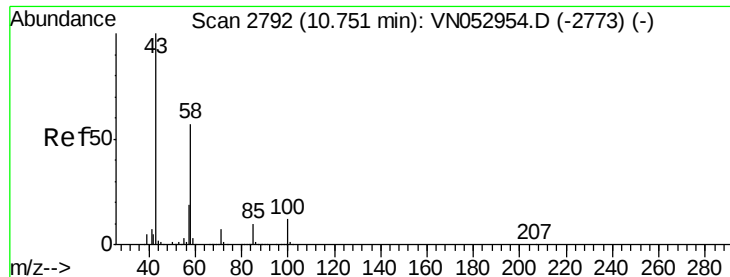
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VNC
Ion 77.90 (77.60 to 78.60): VNC

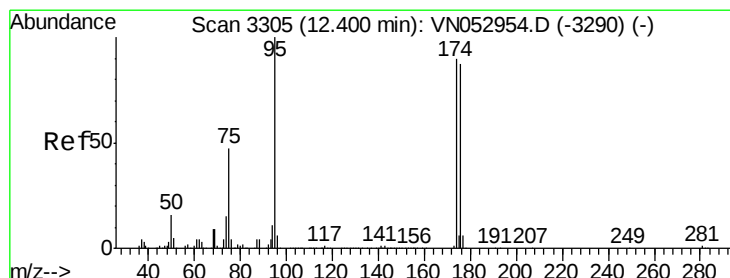
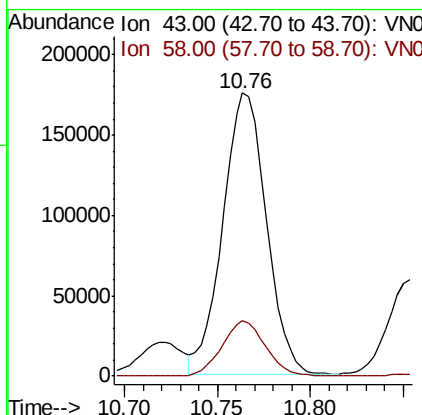
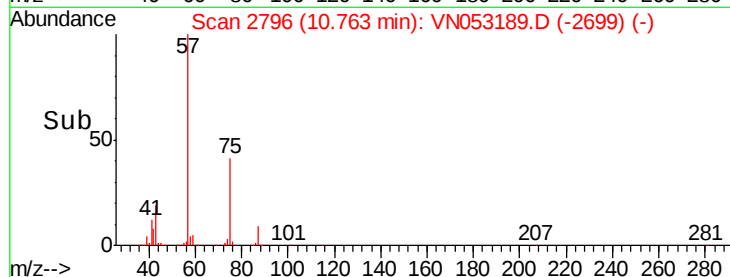
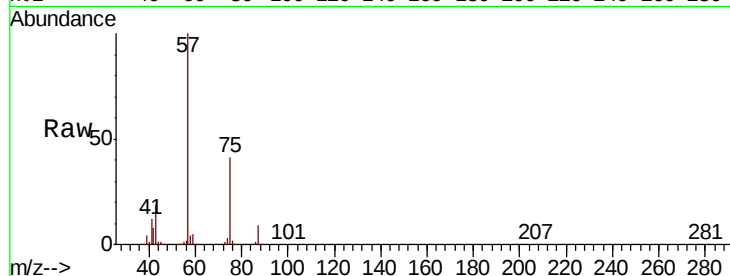




#59
2-Hexanone
Concen: 43.265 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

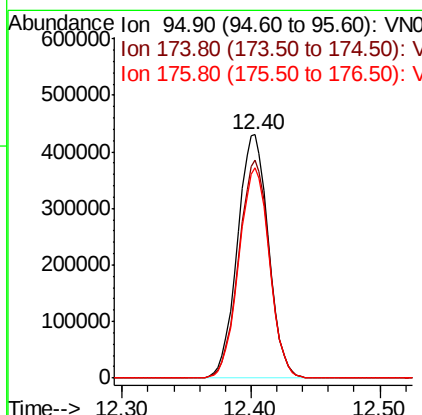
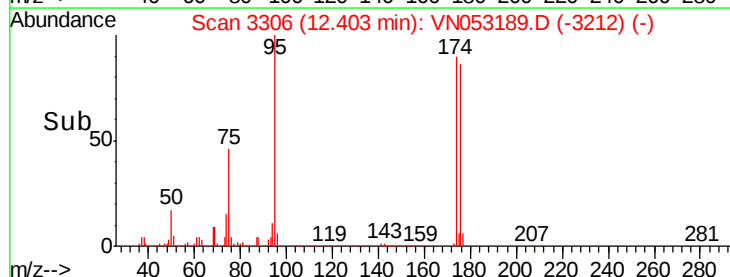
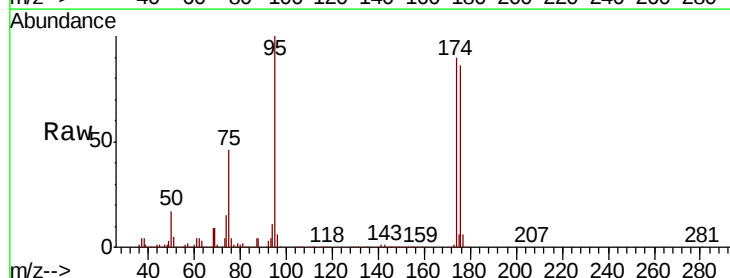
Instrument :
MSVOA_N
ClientSampleId :
SB-59(0-5)-GRAB

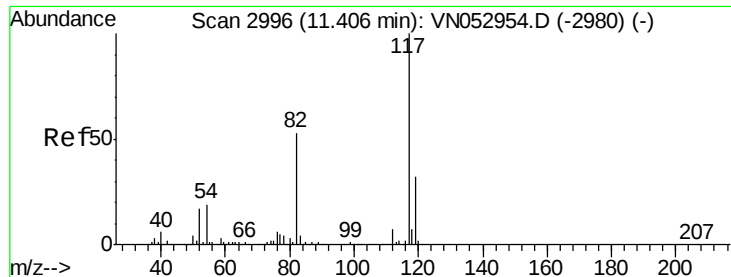
Tot Ion: 43 Resp: 286171
Ion Ratio Lower Upper
43 100
58 19.9 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Tgt Ion: 95 Resp: 719921
Ion Ratio Lower Upper
95 100
174 88.6 0.0 178.8
176 85.5 0.0 173.8

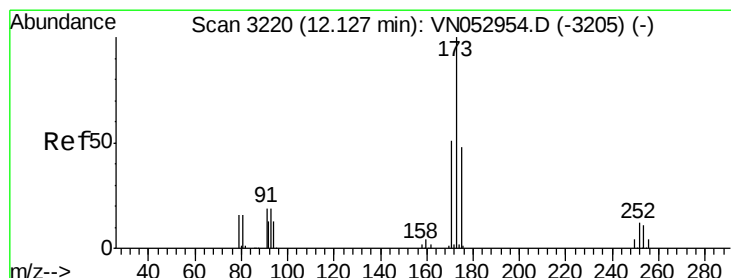
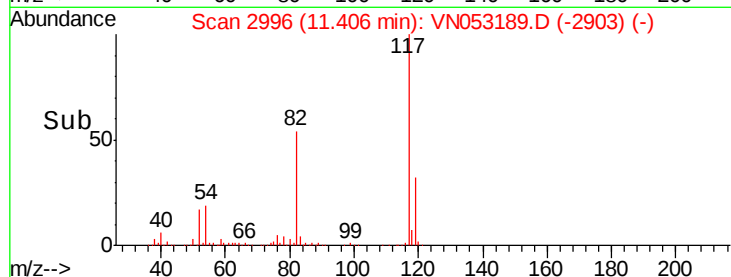
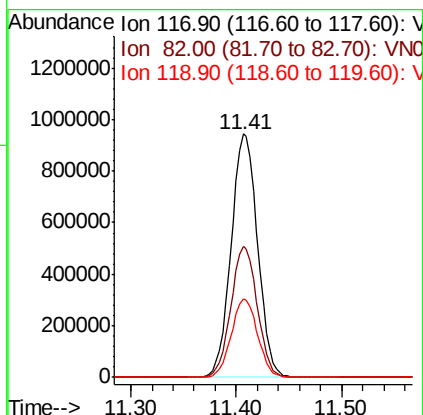
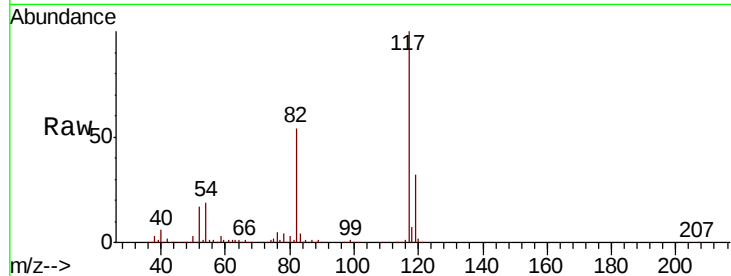




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

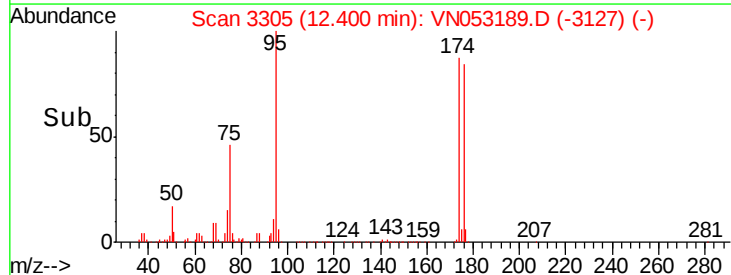
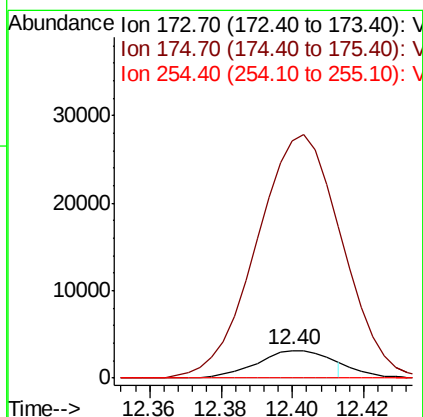
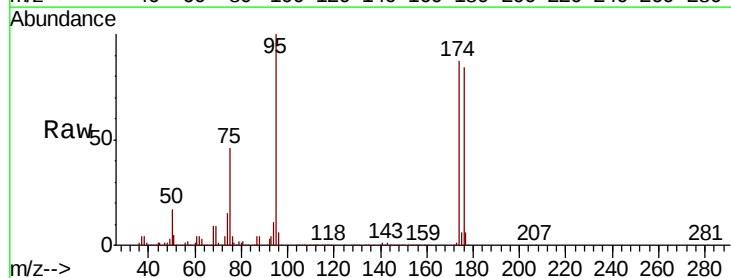
Instrument :
MSVOA_N
ClientSampleId :
SB-59(0-5)-GRAB

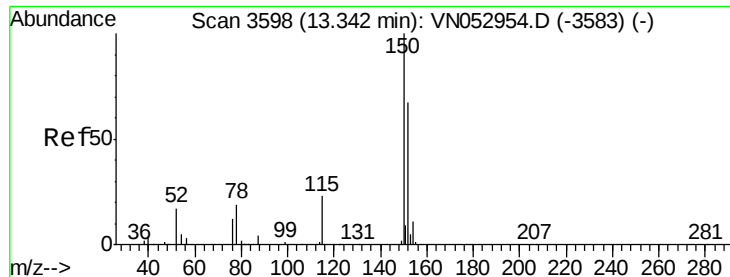
Tot Ion:117 Resp: 1632071
Ion Ratio Lower Upper
117 100
82 53.9 42.8 64.2
119 32.2 25.5 38.3



#71
Bromoform
Concen: 0.487 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053189.D
Acq: 24 Dec 2018 17:00

Tgt Ion:173 Resp: 4428
Ion Ratio Lower Upper
173 100
175 908.9 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: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampleId :

SB-59(0-5)-GRAB

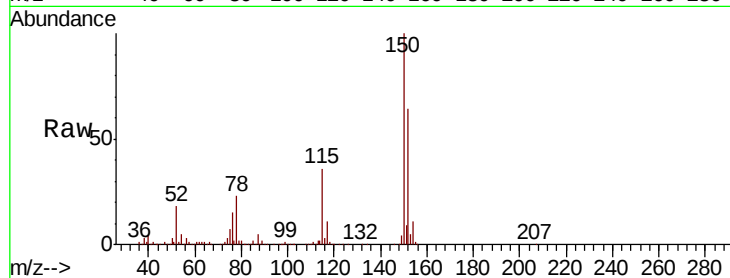
Tot Ion:152 Resp: 622356

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

150 156.8 0.0 347.8

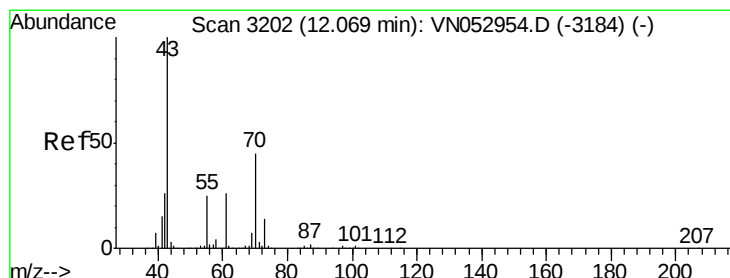
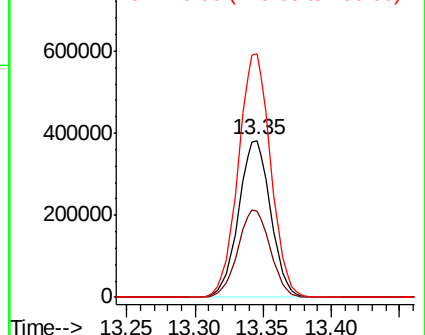
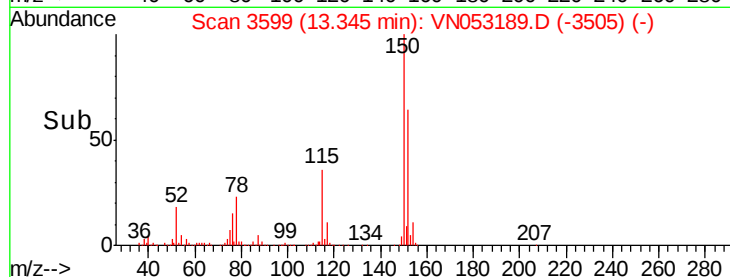


Abundance

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: 2.222 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

Tgt Ion: 43 Resp: 30043

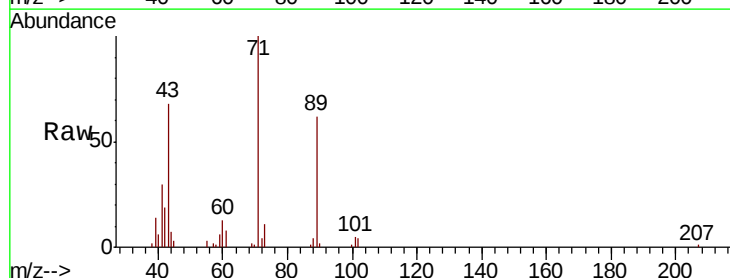
Ion Ratio Lower Upper

43 100

70 2.3 34.2 51.4#

55 5.2 20.3 30.5#

61 11.5 20.0 30.0#



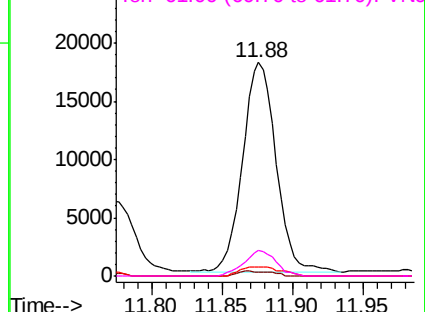
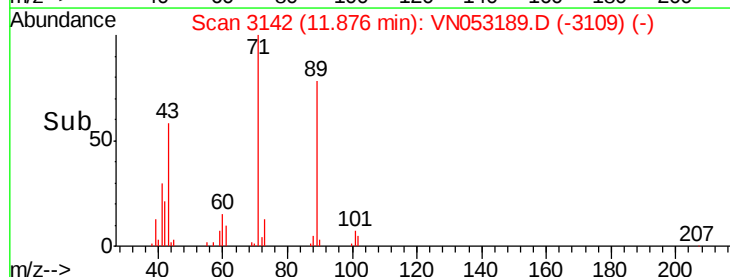
Abundance

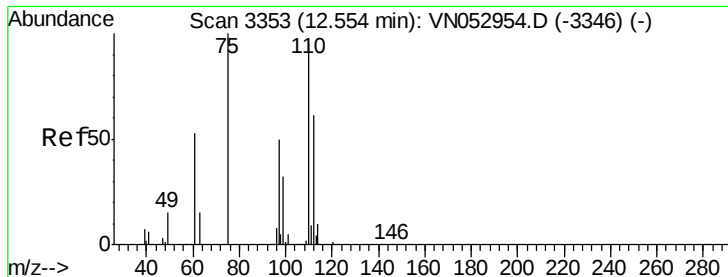
Ion 43.00 (42.70 to 43.70): V

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: 31.578 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

Instrument :

MSVOA_N

ClientSampleId :

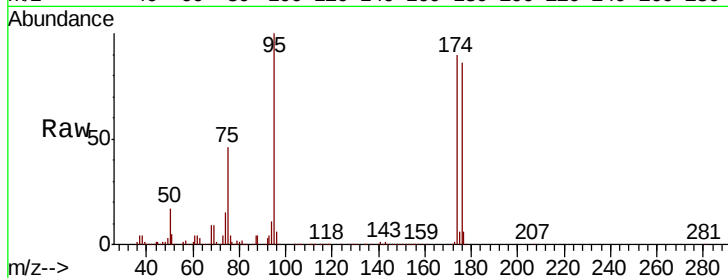
SB-59(0-5)-GRAB

Tot Ion: 75 Resp: 330837

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

200000

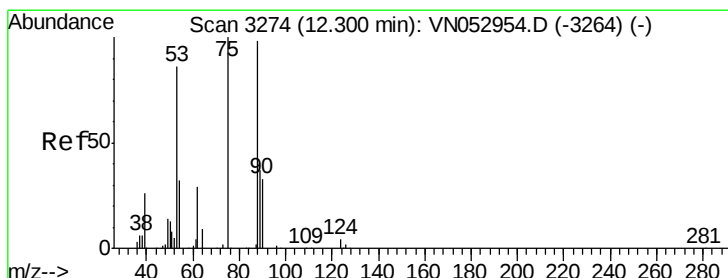
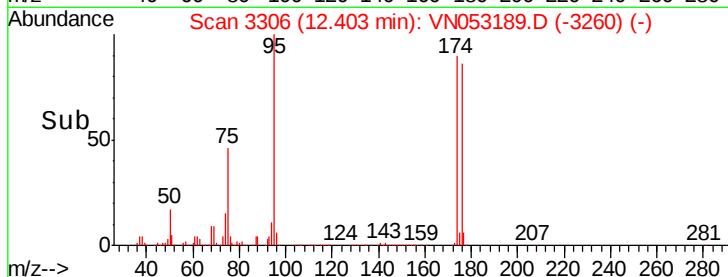
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 101.781 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053189.D

Acq: 24 Dec 2018 17:00

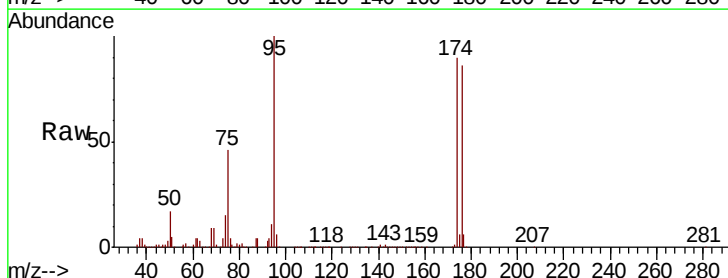
Tgt Ion: 75 Resp: 330837

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

250000

200000

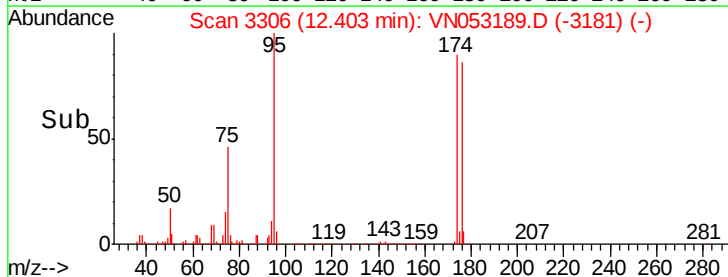
150000

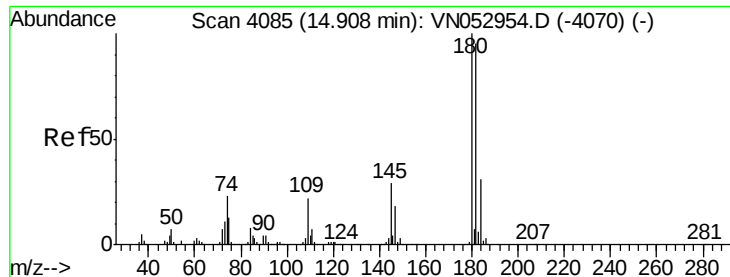
100000

50000

0

Time--> 12.30 12.40 12.50

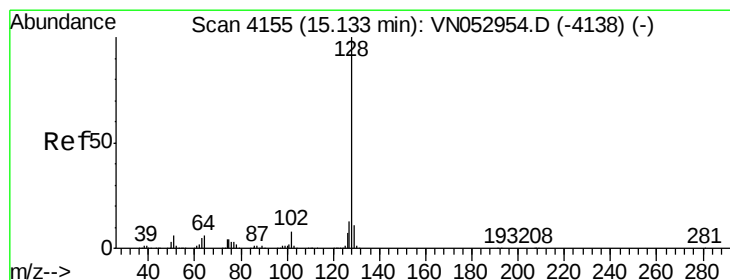
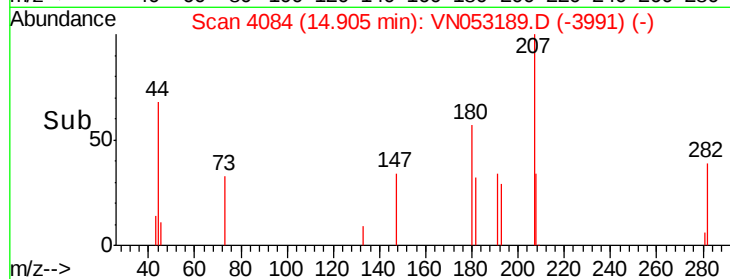
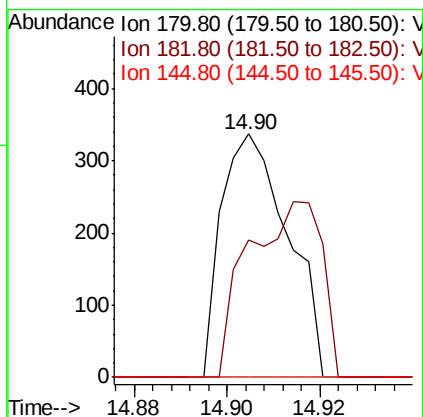
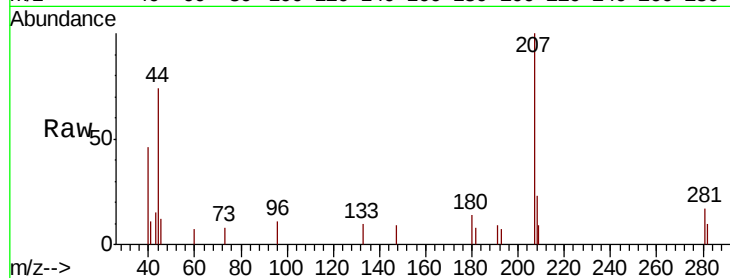




#93
 1,2,4-Trichlorobenzene
 Concen: 0.626 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN053189.D
 Acq: 24 Dec 2018 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-59(0-5)-GRAB

Tot Ion:180 Resp: 335
 Ion Ratio Lower Upper
 180 100
 182 79.7 47.8 143.3
 145 0.0 14.2 42.6#



#95
 Naphthalene
 Concen: 1.182 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN053189.D
 Acq: 24 Dec 2018 17:00

Tgt Ion:128 Resp: 898
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.6 13.0#

