

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051993.D
 Acq On : 24 Oct 2018 17:33
 Operator : MD\SY
 Sample : PB114120ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:48:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1088103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1587384	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1464057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	634433	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	562697	58.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.12%	
35) Dibromofluoromethane	7.59	113	585771	57.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.66%	
50) Toluene-d8	10.09	98	2182012	59.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.22%	
62) 4-Bromofluorobenzene	12.40	95	668655	53.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.30%	

Target Compounds

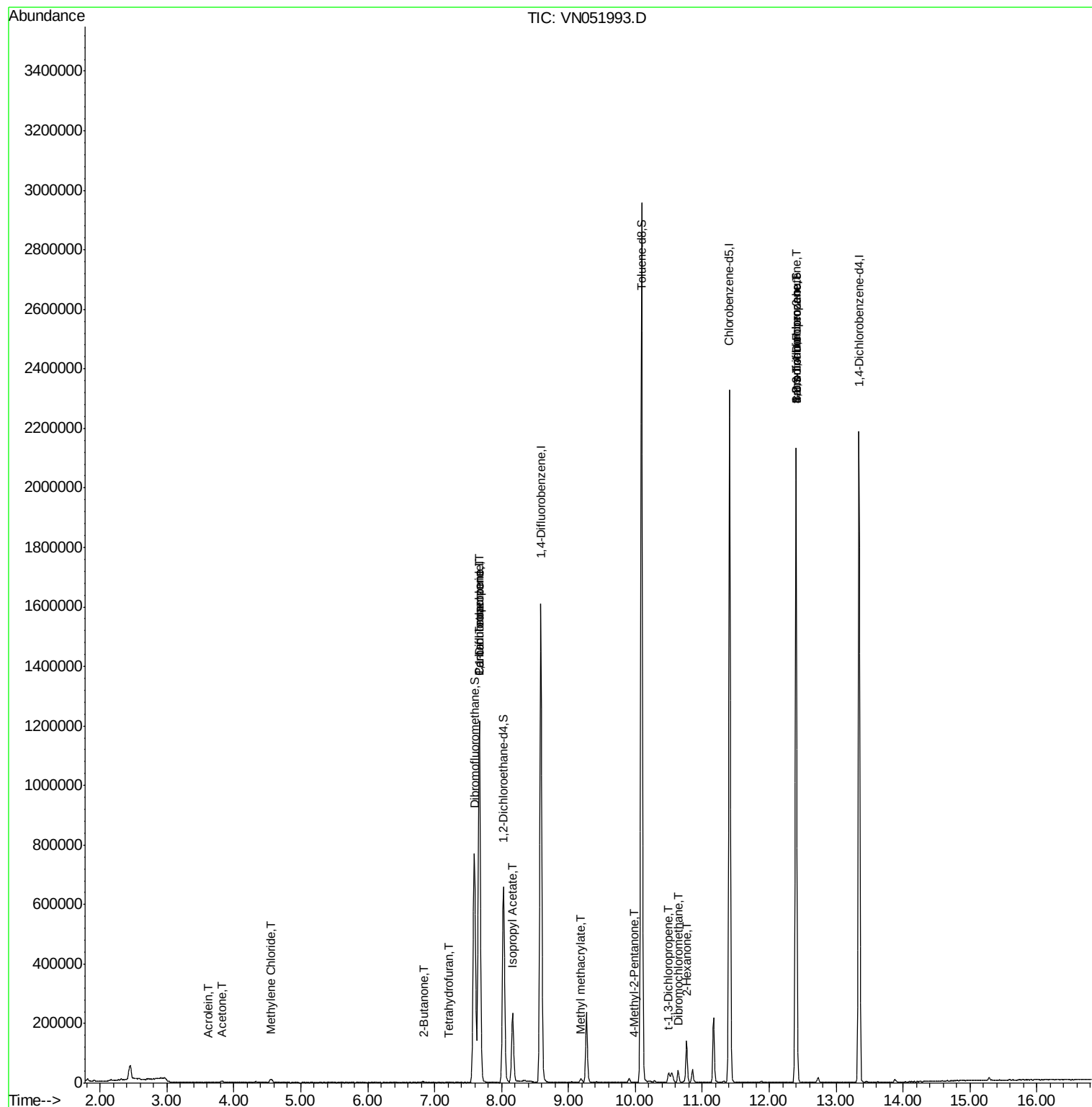
					Qvalue	
13) Acrolein	3.63	56	105	37.582	ug/l #	1
16) Acetone	3.82	43	8374	5.245	ug/l	98
18) Methyl Acetate	4.34	43	5432	Below Cal	#	88
20) Methylene Chloride	4.56	84	10042	1.072	ug/l	92
25) 2-Butanone	6.85	43	1420	0.624	ug/l #	64
29) Tetrahydrofuran	7.22	42	418	0.271	ug/l #	77
31) Cyclohexane	7.67	56	16769	Below Cal	#	37
36) 1,1-Dichloropropene	7.66	75	62788	5.156	ug/l #	48
37) Ethyl Acetate	6.92	43	272	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	97359	6.965	ug/l #	15
43) Isopropyl Acetate	8.17	43	260097	25.506	ug/l	98
48) Methyl methacrylate	9.18	41	5937	1.205	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	2193	0.391	ug/l #	32
53) t-1,3-Dichloropropene	10.48	75	176	1.258	ug/l #	43
59) 2-Hexanone	10.76	43	18833	4.997	ug/l #	55
60) Dibromochloromethane	10.63	129	181	1.993	ug/l #	11
71) Bromoform	12.40	173	5915	4.390	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	334406	51.028	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	334406	160.362	ug/l #	12

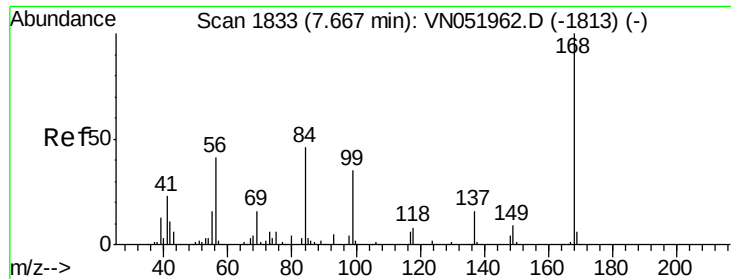
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Instrument :

MSVOA_N

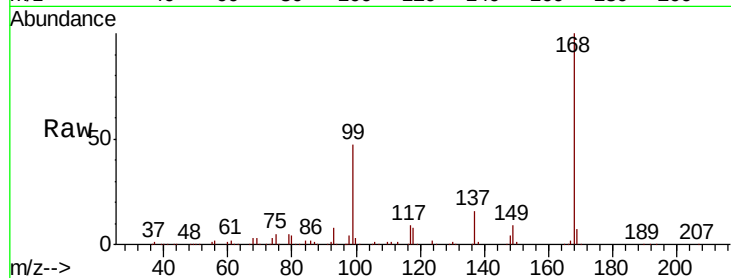
ClientSampled :

Tot Ion:168 Resp: 1088103

Ion Ratio Lower Upper

168 100

99 46.9 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D

Ion 98.90 (98.60 to 99.60): VN051962.D

7.67

500000

400000

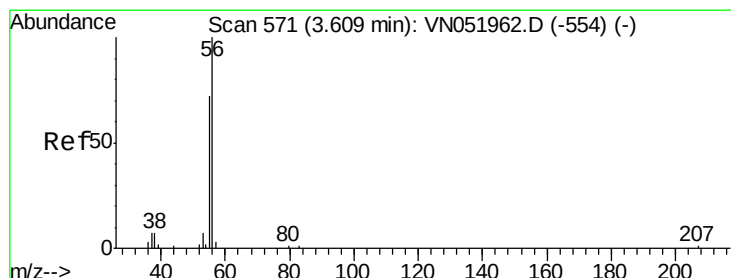
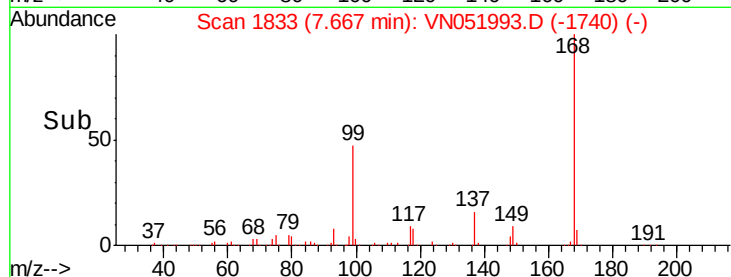
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.582 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN051993.D

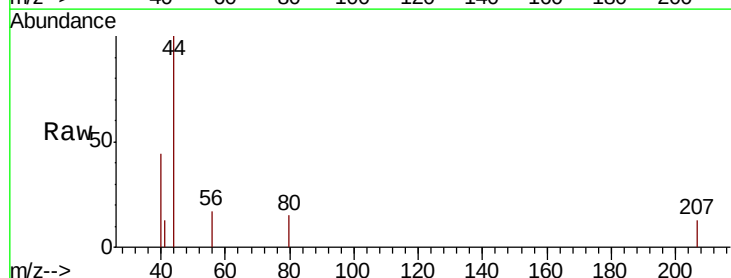
Acq: 24 Oct 2018 17:33

Tgt Ion: 56 Resp: 105

Ion Ratio Lower Upper

56 100

55 233.3 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN051962.D

Ion 55.00 (54.70 to 55.70): VN051962.D

3.63

250

200

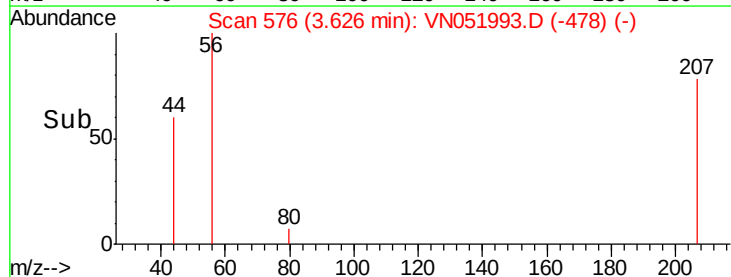
150

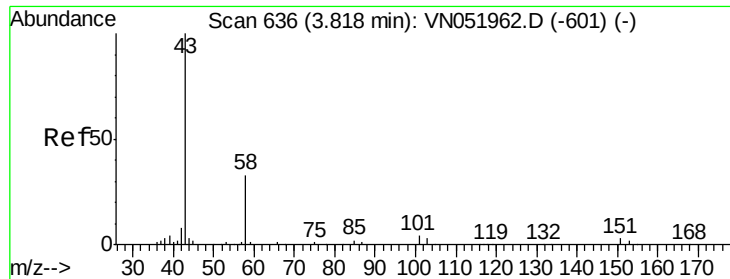
100

50

0

Time-->





#16

Acetone

Concen: 5.245 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Instrument :

MSVOA_N

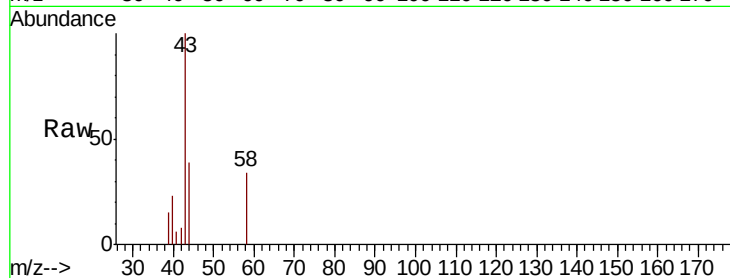
ClientSampled :

Tot Ion: 43 Resp: 8374

Ion Ratio Lower Upper

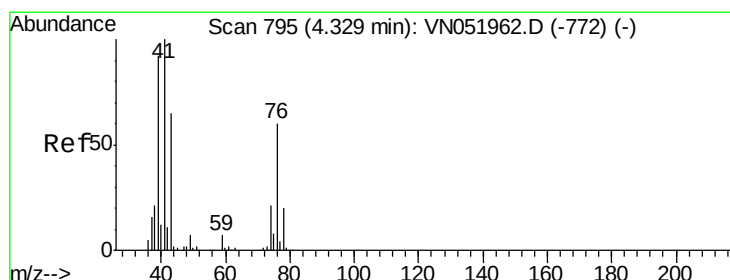
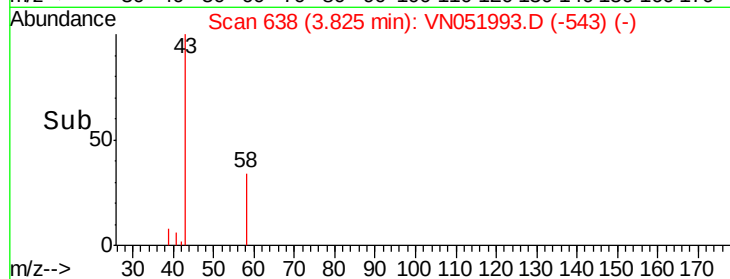
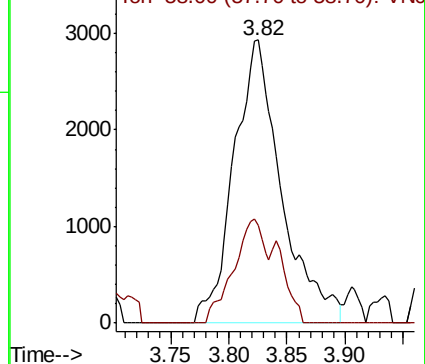
43 100

58 34.4 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051993.D

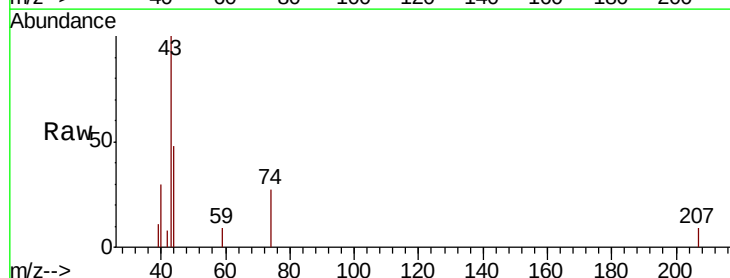
Acq: 24 Oct 2018 17:33

Tgt Ion: 43 Resp: 5432

Ion Ratio Lower Upper

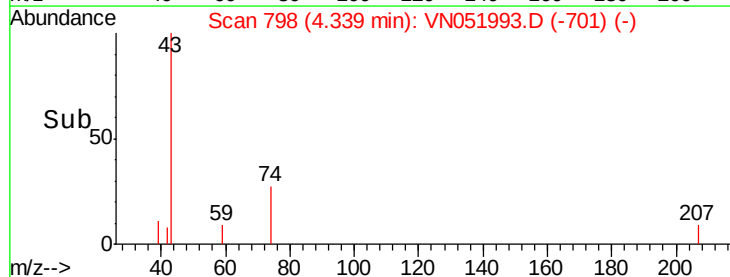
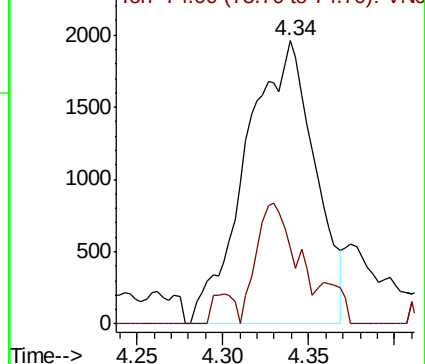
43 100

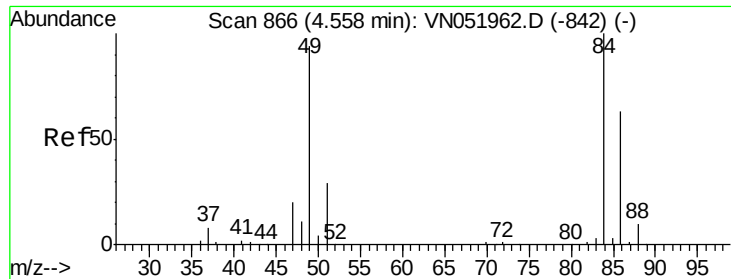
74 25.2 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

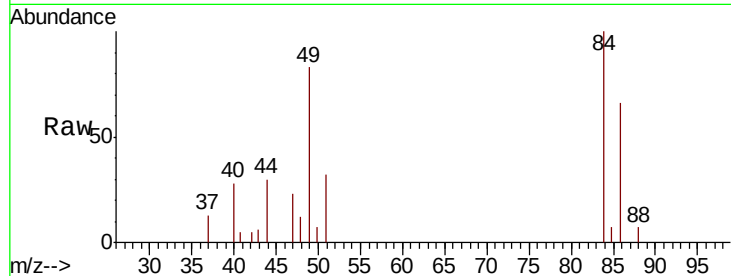




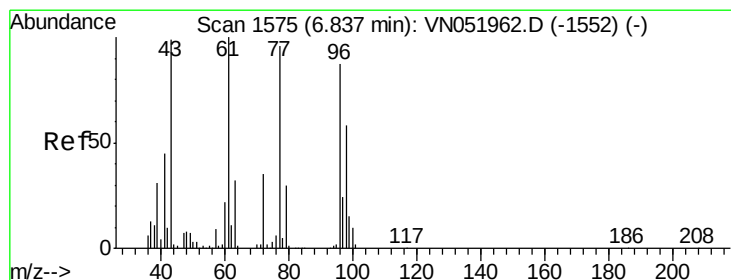
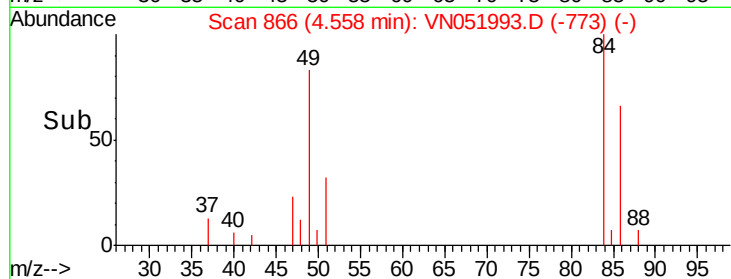
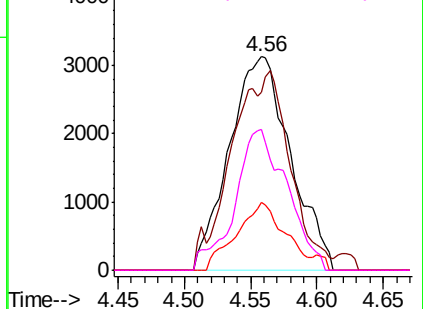
#20
Methvlene Chloride
Concen: 1.072 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 10042
Ion Ratio Lower Upper
84 100
49 83.5 75.4 113.0
51 31.7 23.1 34.7
86 65.8 50.2 75.4

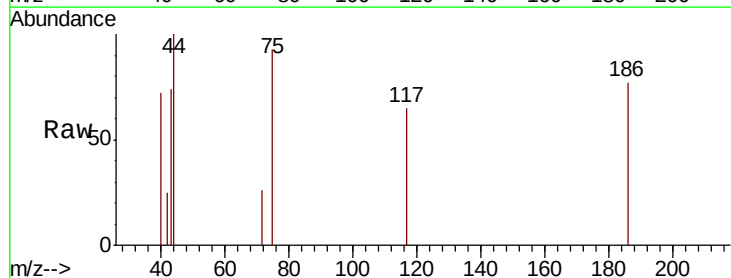


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

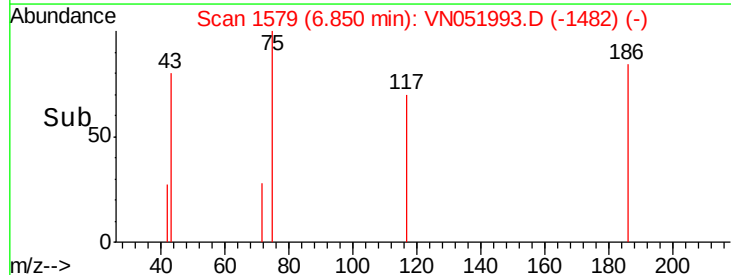
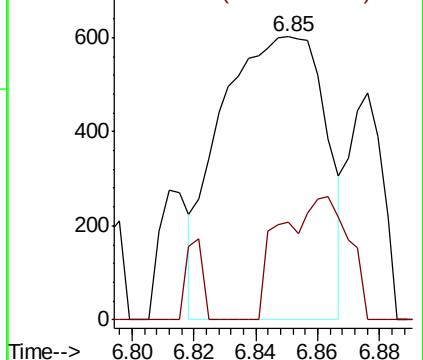


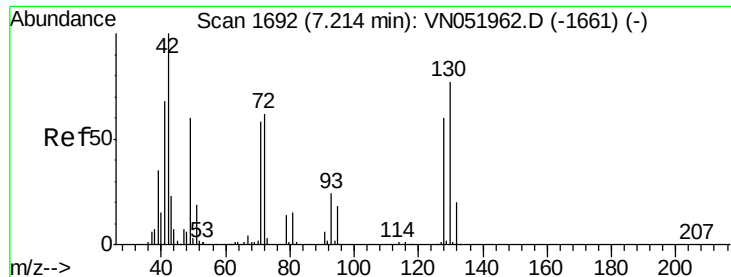
#25
2-Butanone
Concen: 0.624 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

Tgt Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
72 14.3 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

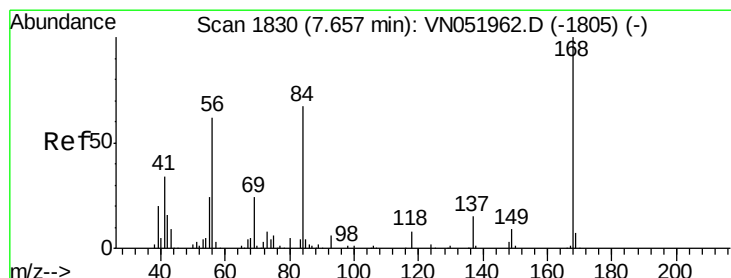
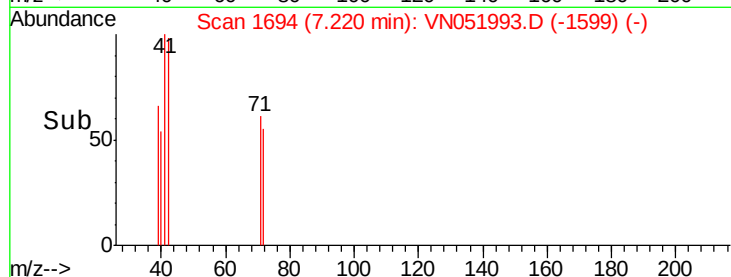
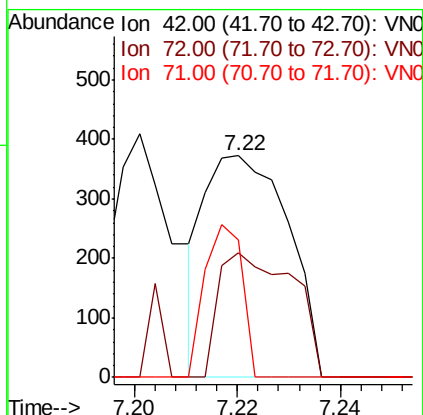
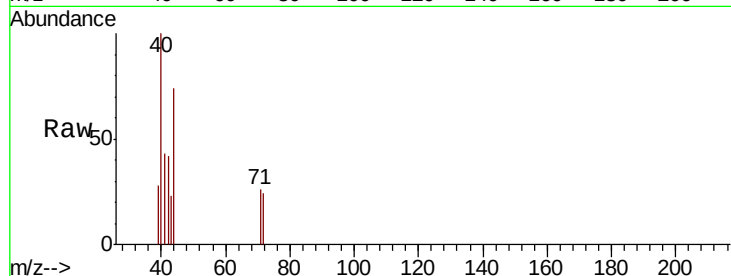




#29
Tetrahydrofuran
Concen: 0.271 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

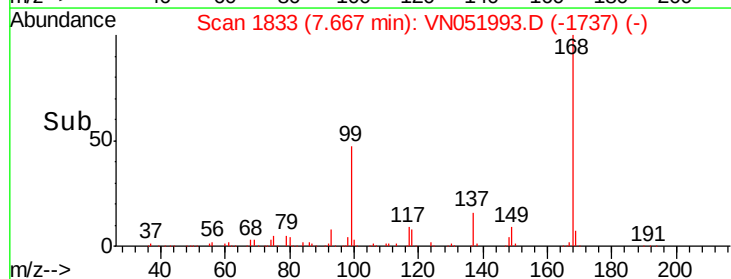
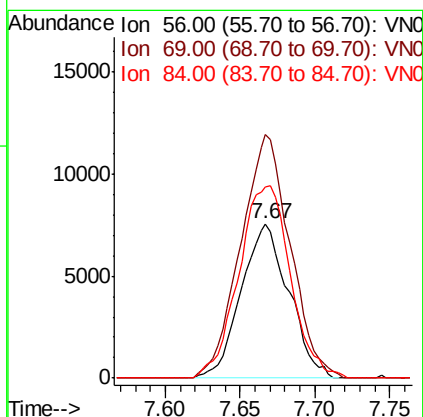
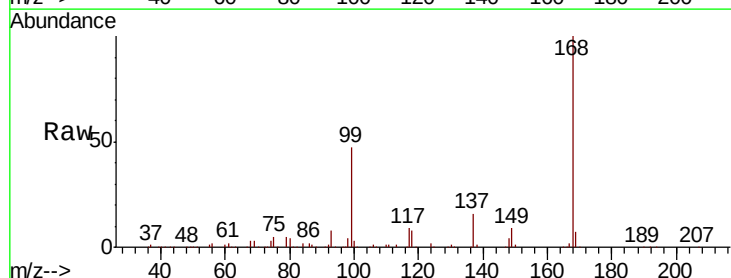
Instrument :
MSVOA_N
ClientSampleId :

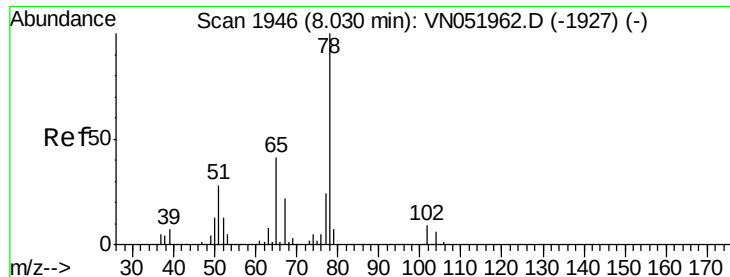
Tot Ion: 42 Resp: 418
Ion Ratio Lower Upper
42 100
72 50.2 47.5 71.3
71 30.9 45.4 68.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

Tgt Ion: 56 Resp: 16769
Ion Ratio Lower Upper
56 100
69 158.0 31.2 46.8#
84 124.1 86.3 129.5

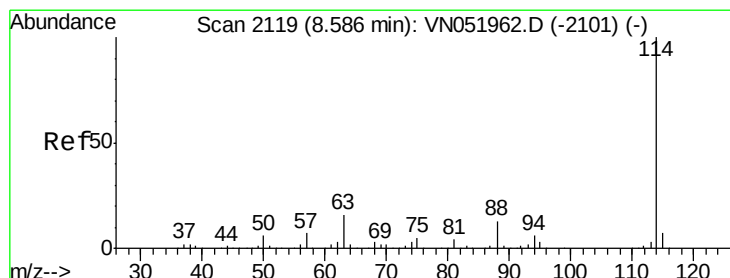
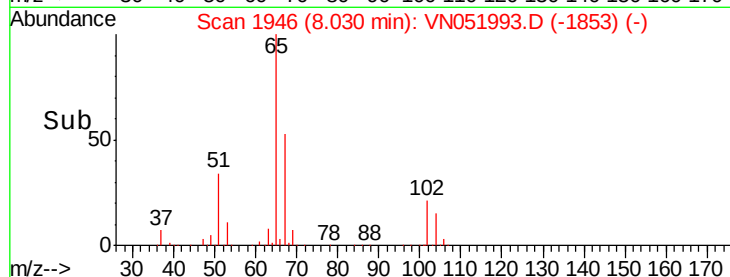
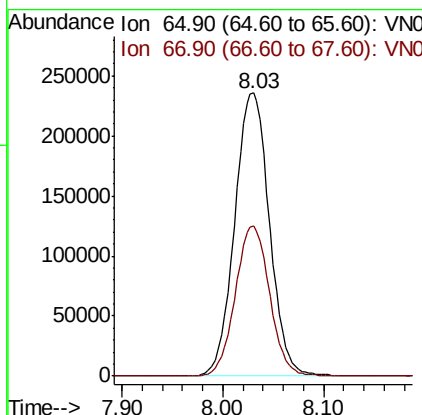
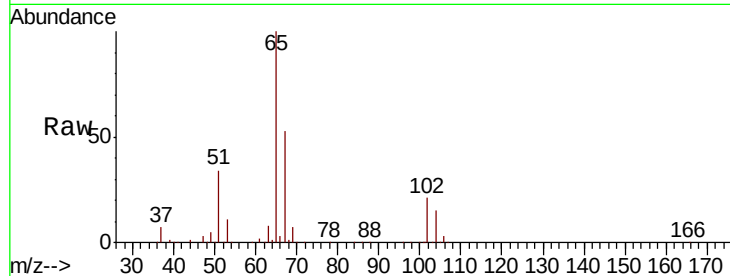




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051993.D
 Acq: 24 Oct 2018 17:33

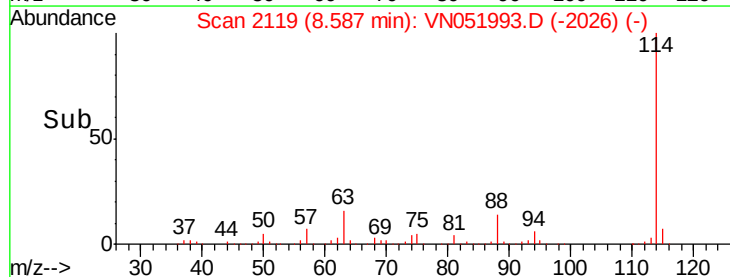
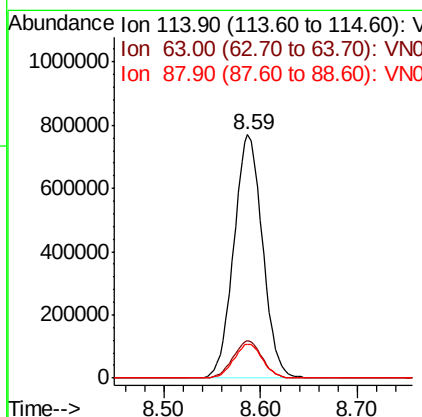
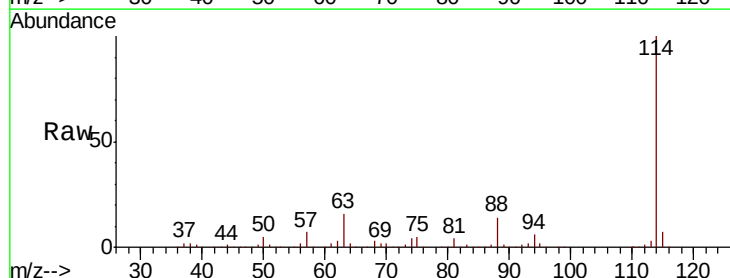
Instrument :
 MSVOA_N
 ClientSampleId :

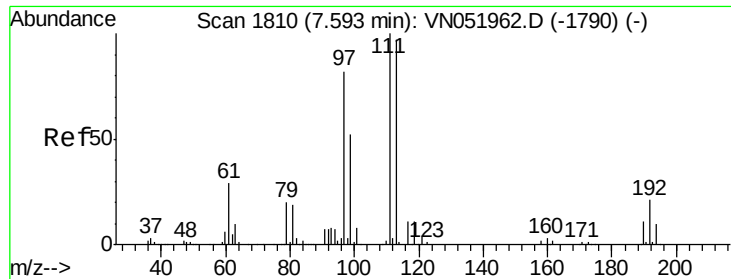
Tot Ion: 65 Resp: 562697
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051993.D
 Acq: 24 Oct 2018 17:33

Tgt Ion: 114 Resp: 1587384
 Ion Ratio Lower Upper
 114 100
 63 15.5 0.0 31.2
 88 14.1 0.0 27.0

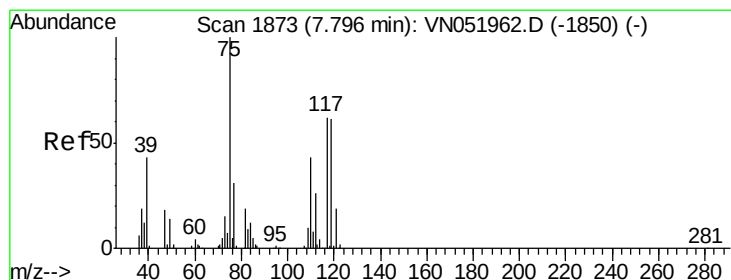
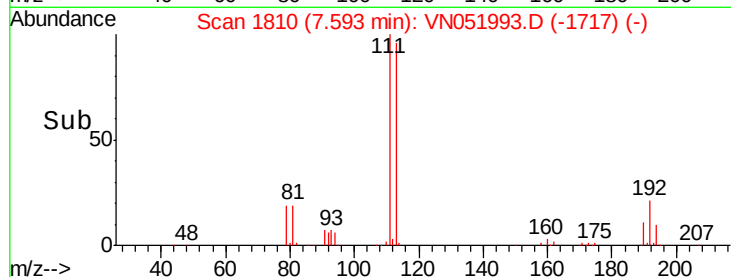
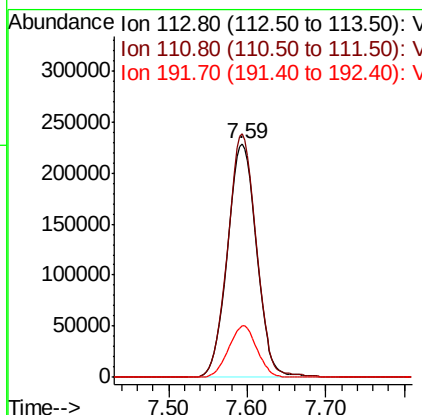
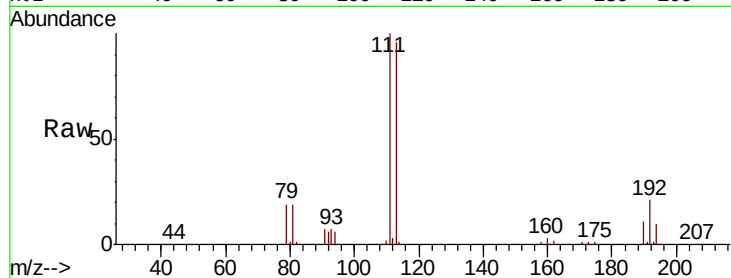




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051993.D
 Acq: 24 Oct 2018 17:33

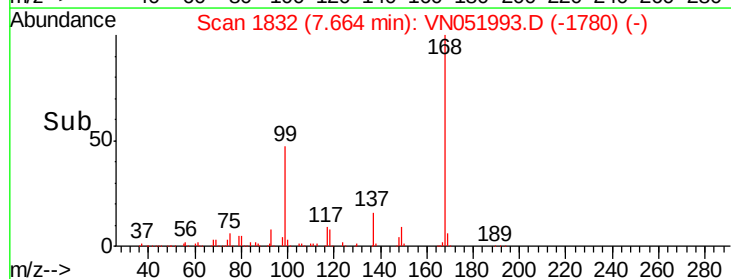
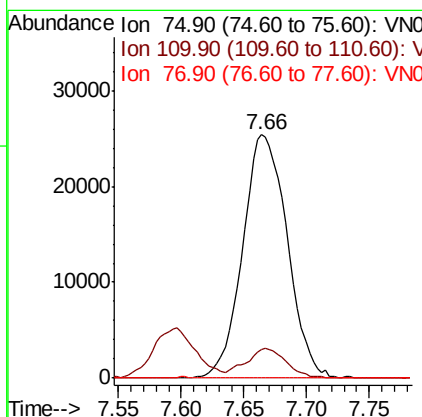
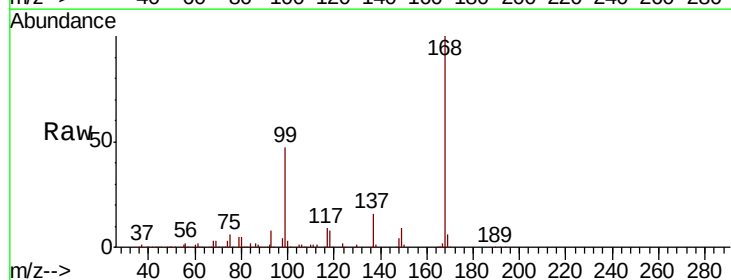
Instrument :
 MSVOA_N
 ClientSampleId :

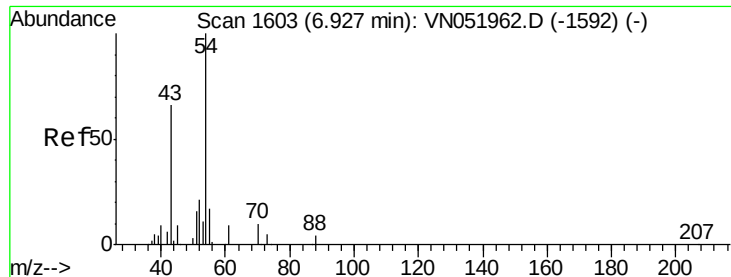
Tot Ion:113 Resp: 585771
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 21.7 17.2 25.8



#36
 1,1-Dichloropropene
 Concen: 5.156 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051993.D
 Acq: 24 Oct 2018 17:33

Tgt Ion: 75 Resp: 62788
 Ion Ratio Lower Upper
 75 100
 110 11.0 20.9 62.8#
 77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.92 min Scan# 1601

Delta R.T. -0.01 min

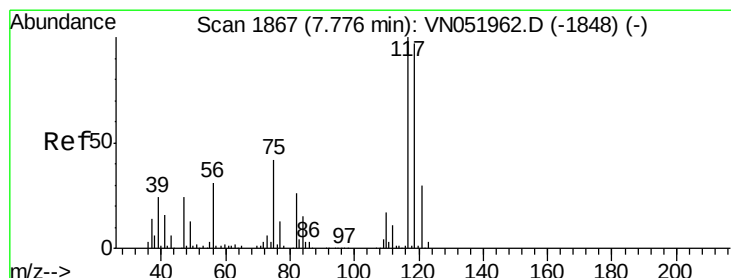
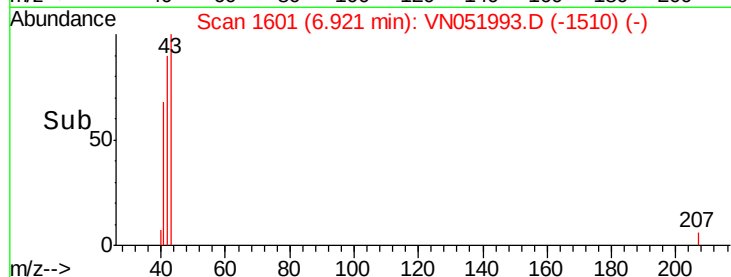
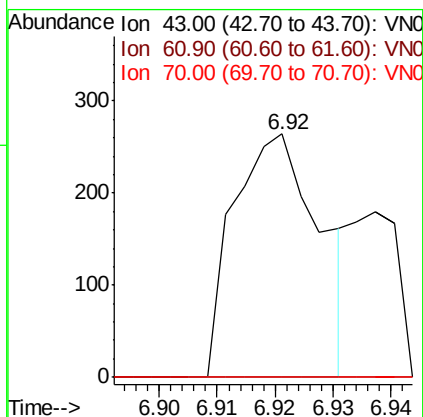
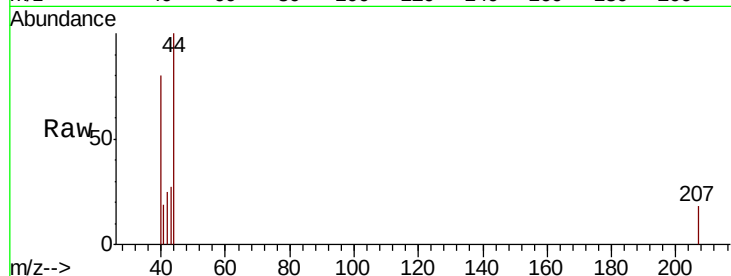
Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 272

Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.5	20.3#
70	0.0	9.8	14.6#



#38

Carbon Tetrachloride

Concen: 6.965 ug/l

RT: 7.67 min Scan# 1834

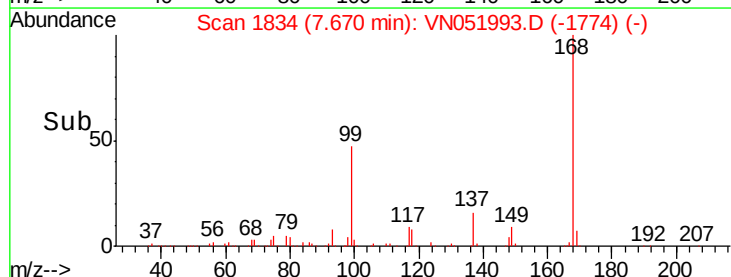
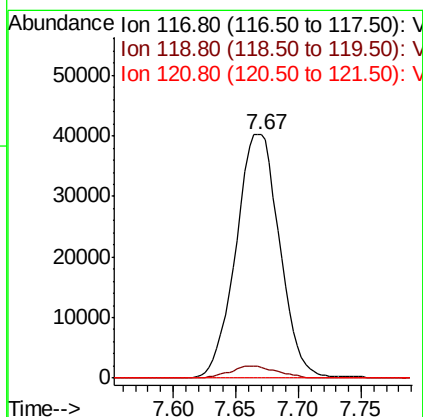
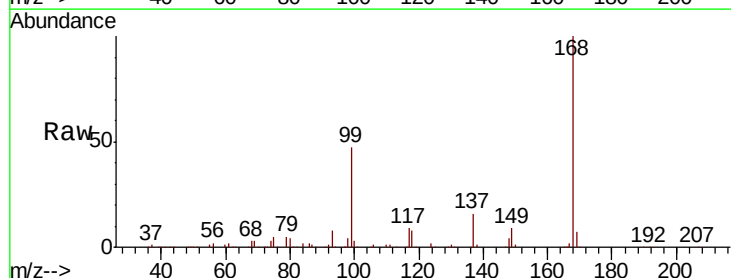
Delta R.T. -0.11 min

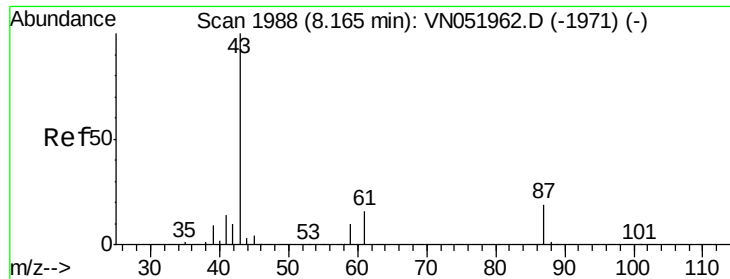
Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Tgt Ion: 117 Resp: 97359

Ion	Ratio	Lower	Upper
117	100		
119	4.3	77.4	116.0#
121	0.0	24.2	36.4#





#43

Isopropyl Acetate

Concen: 25.506 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

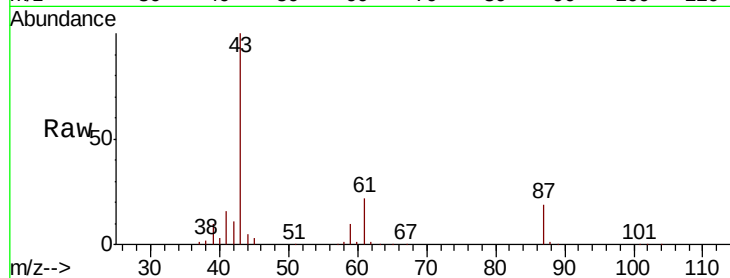
Tot Ion: 43 Resp: 260097

Ion Ratio Lower Upper

43 100

61 21.1 17.2 25.8

87 17.8 15.2 22.8



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN051962.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN051962.D (-1971) (-)

8.17

150000

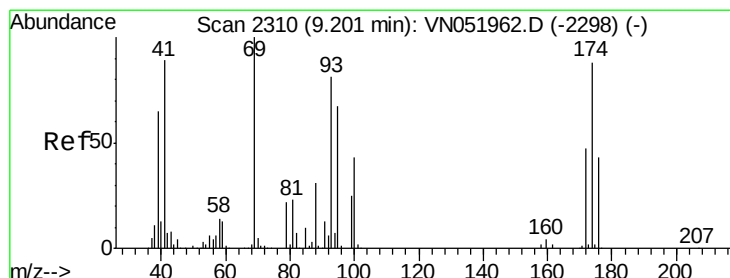
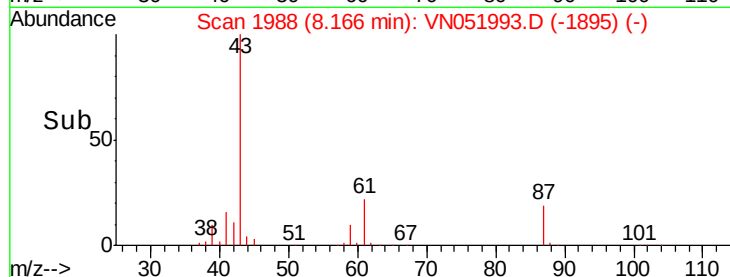
100000

50000

0

8.10 8.15 8.20 8.25

Time-->



#48

Methyl methacrylate

Concen: 1.205 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

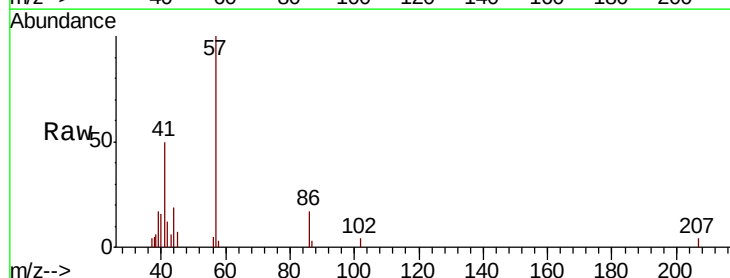
Tgt Ion: 41 Resp: 5937

Ion Ratio Lower Upper

41 100

69 0.0 92.2 138.4#

39 25.6 60.2 90.4#



Abundance Ion 41.00 (40.70 to 41.70): VN051962.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051962.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051962.D (-2298) (-)

9.18

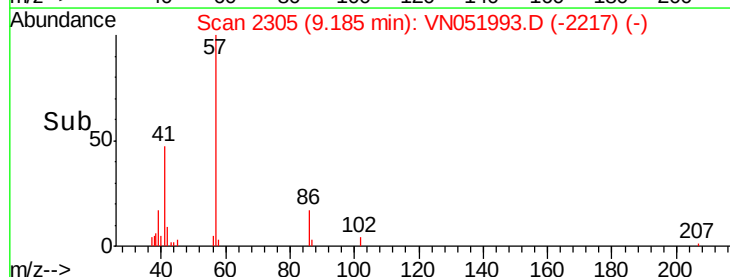
10000

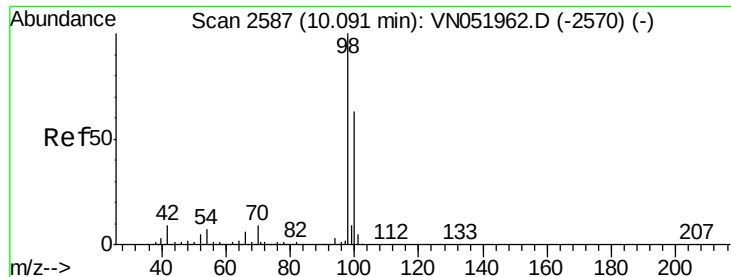
5000

0

9.15 9.20 9.25

Time-->

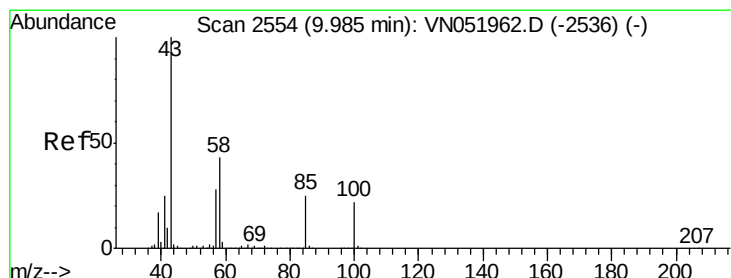
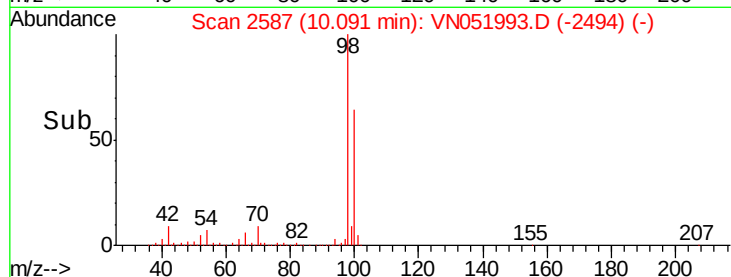
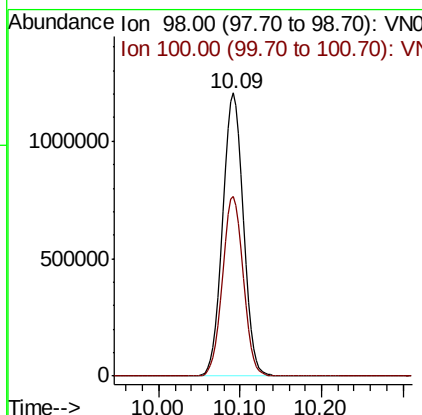
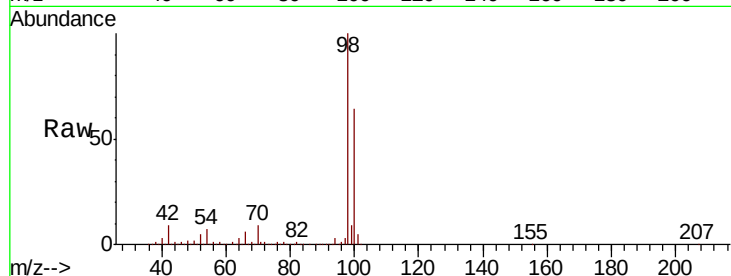




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

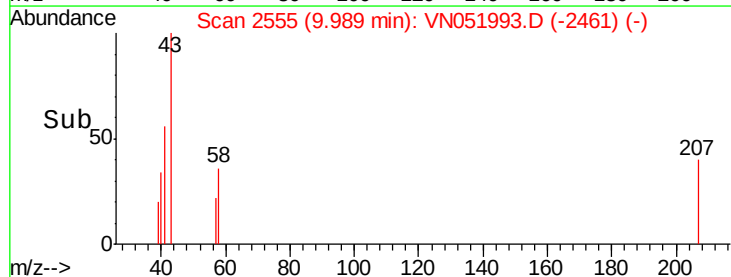
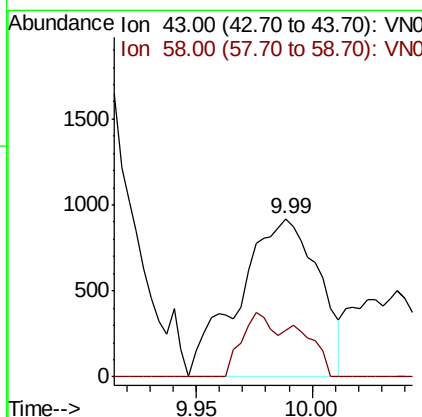
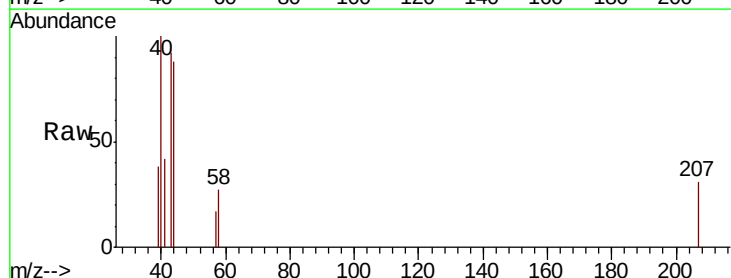
Instrument :
MSVOA_N
ClientSampled :

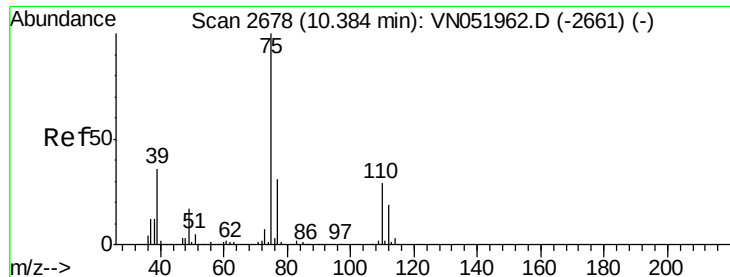
Tot Ion: 98 Resp: 2182012
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.391 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

Tgt Ion: 43 Resp: 2193
Ion Ratio Lower Upper
43 100
58 0.0 34.8 52.2#

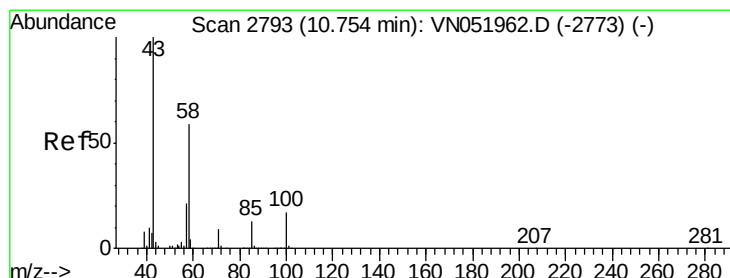
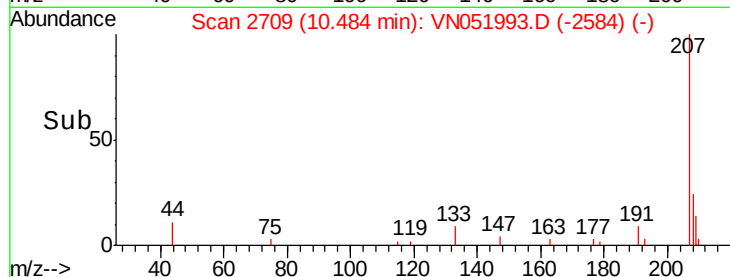
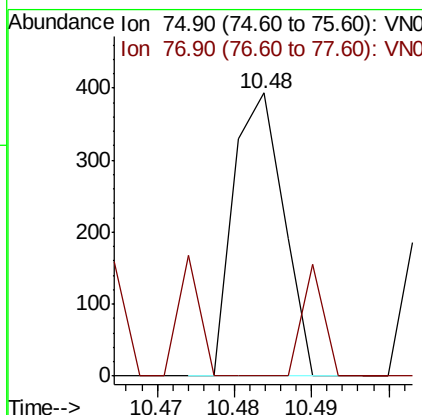
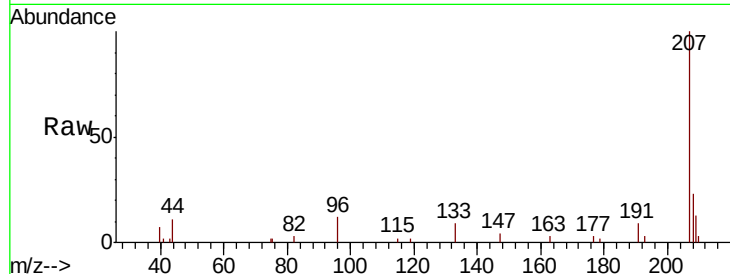




#53
t-1,3-Dichloropropene
Concen: 1.258 ug/l
RT: 10.48 min Scan# 2709
Delta R.T. 0.10 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

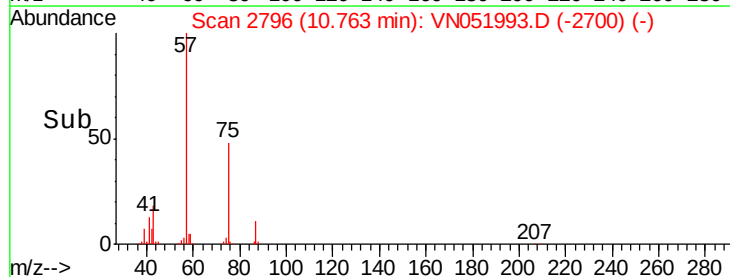
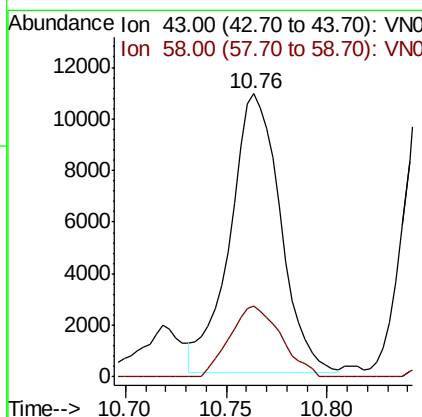
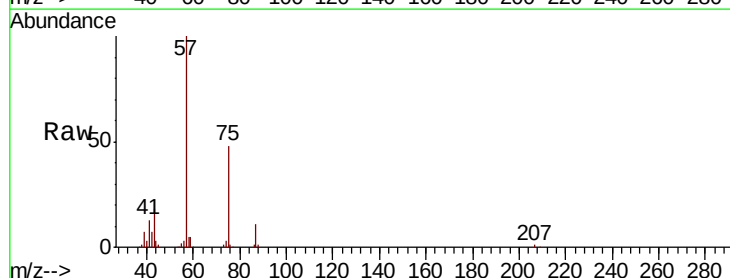
Instrument :
MSVOA_N
ClientSampled :

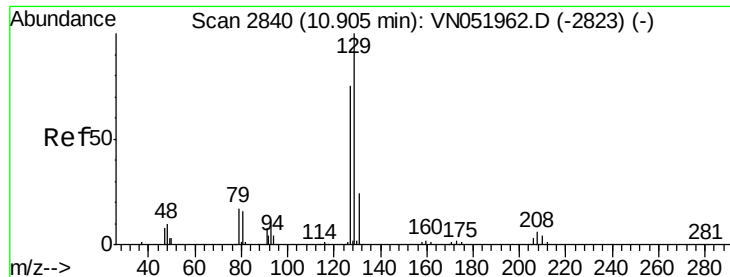
Tot Ion: 75 Resp: 176
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#



#59
2-Hexanone
Concen: 4.997 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

Tgt Ion: 43 Resp: 18833
Ion Ratio Lower Upper
43 100
58 25.9 29.9 89.8#





#60

Dibromochloromethane

Concen: 1.993 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Instrument :

MSVOA_N

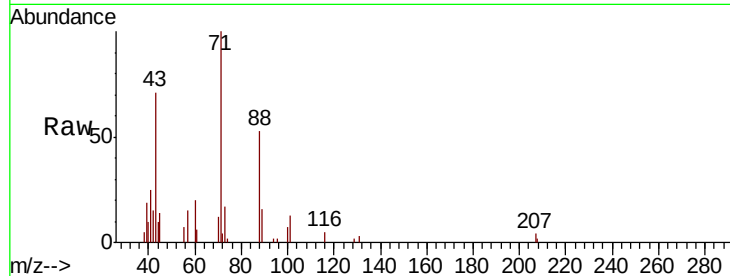
ClientSampleId :

Tot Ion:129 Resp: 181

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

200

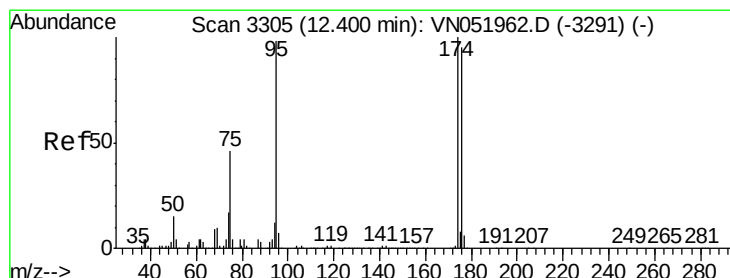
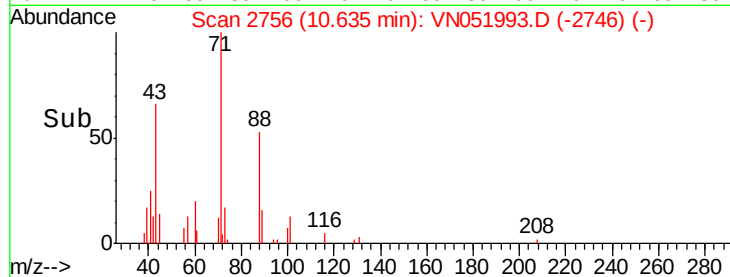
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

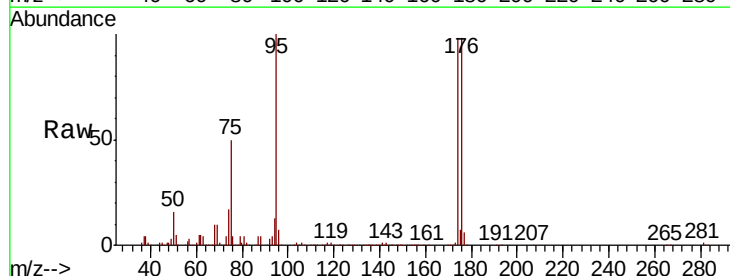
Tgt Ion: 95 Resp: 668655

Ion Ratio Lower Upper

95 100

174 99.4 0.0 206.0

176 97.5 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

500000

400000

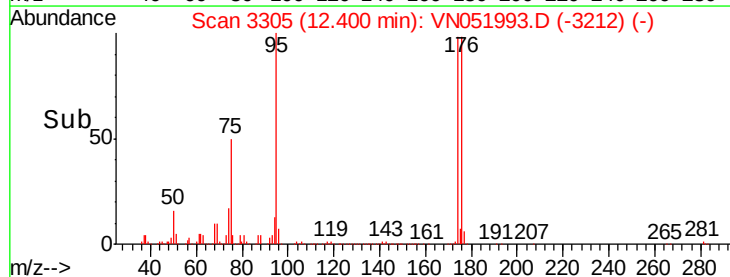
300000

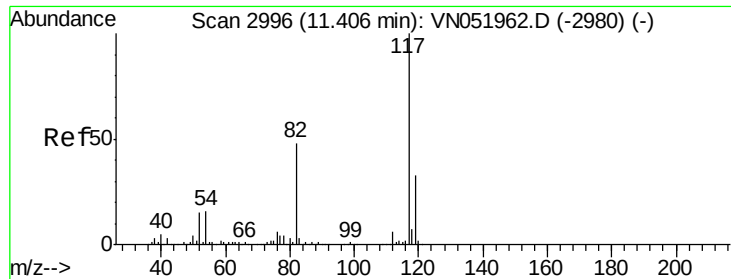
200000

100000

0

Time-->

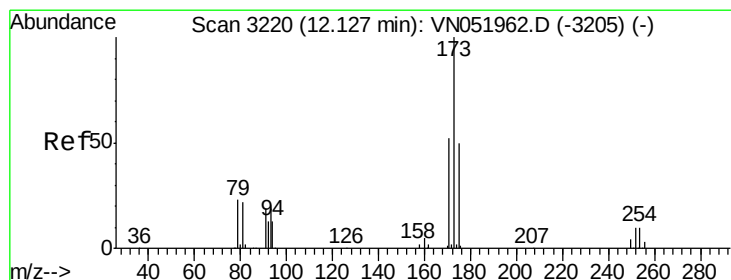
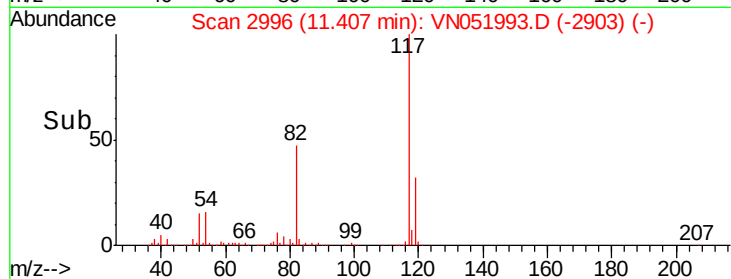
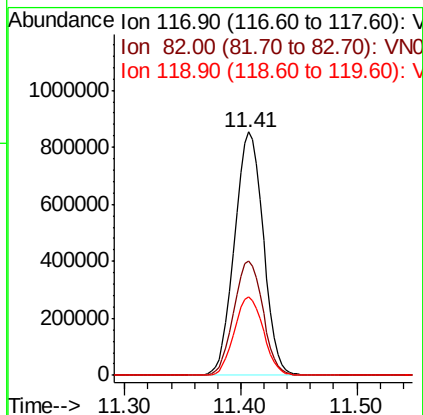
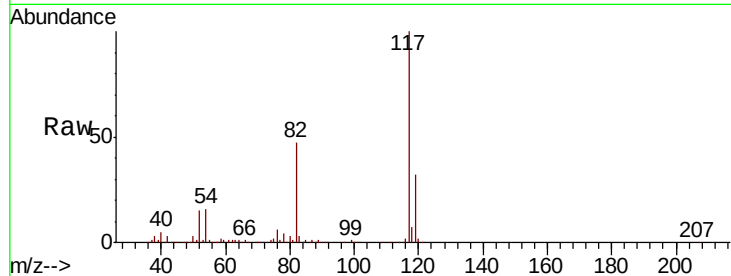




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

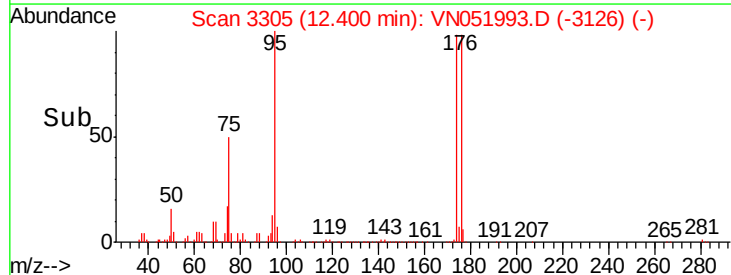
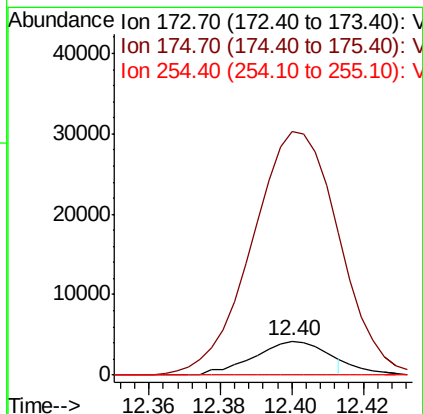
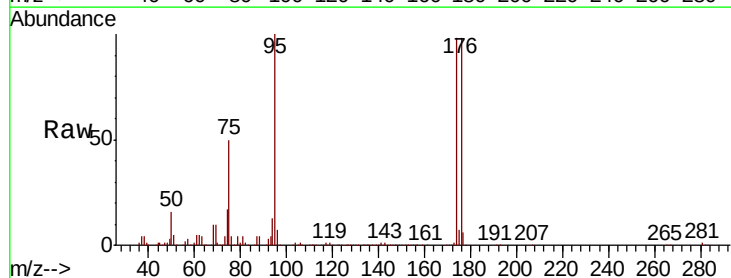
Instrument :
MSVOA_N
ClientSampleId :

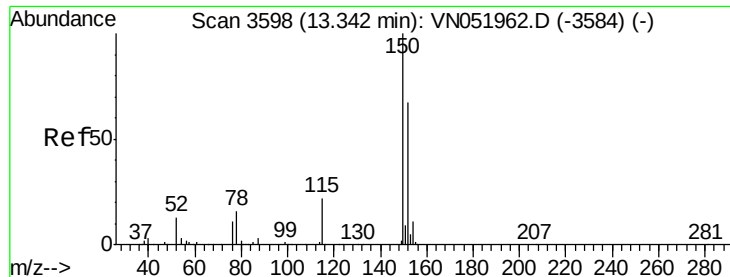
Tot Ion:117 Resp: 1464057
Ion Ratio Lower Upper
117 100
82 47.1 38.1 57.1
119 32.1 26.4 39.6



#71
Bromoform
Concen: 4.390 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051993.D
Acq: 24 Oct 2018 17:33

Tgt Ion:173 Resp: 5915
Ion Ratio Lower Upper
173 100
175 771.9 24.6 74.0#
254 0.0 0.1 0.1#

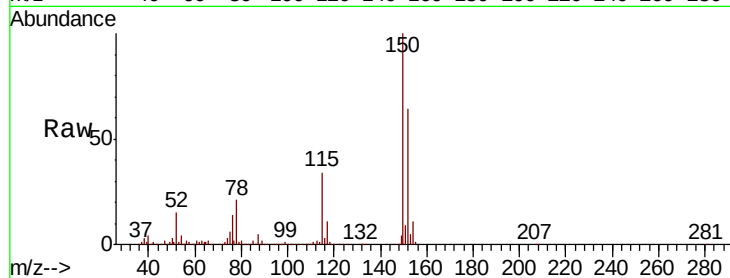




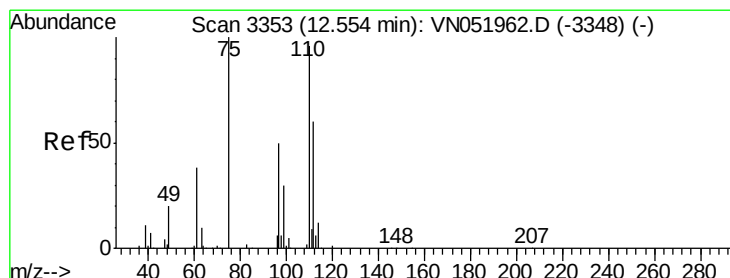
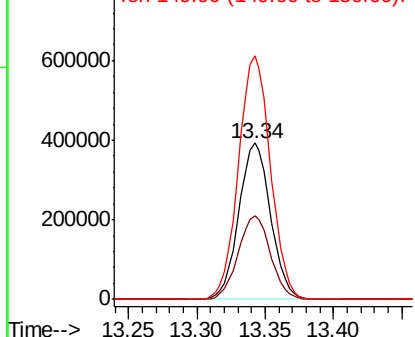
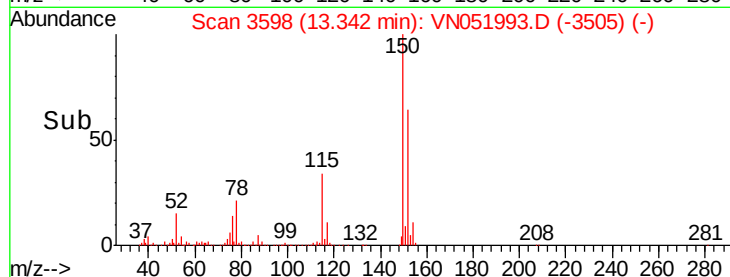
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN051993.D
 Acq: 24 Oct 2018 17:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:152 Resp: 634433
 Ion Ratio Lower Upper
 152 100
 115 54.1 25.8 77.3
 150 156.7 0.0 344.4

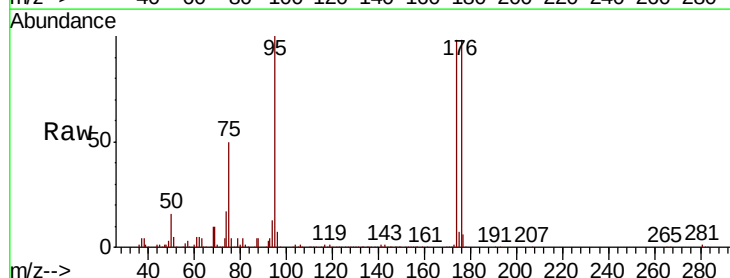


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

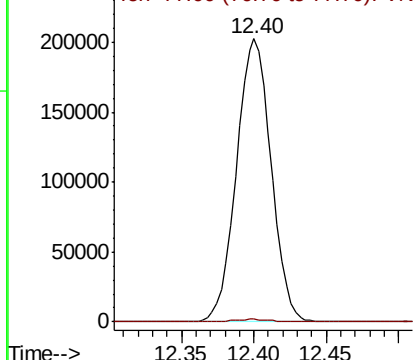
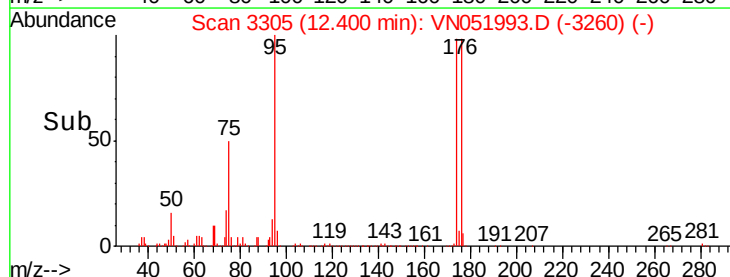


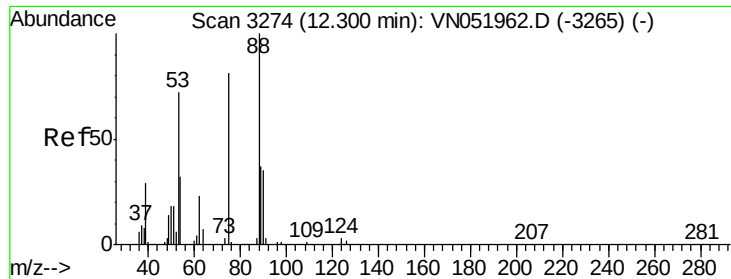
#76
 1,2,3-Trichloropropane
 Concen: 51.028 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN051993.D
 Acq: 24 Oct 2018 17:33

Tgt Ion: 75 Resp: 334406
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 160.362 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051993.D

Acq: 24 Oct 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

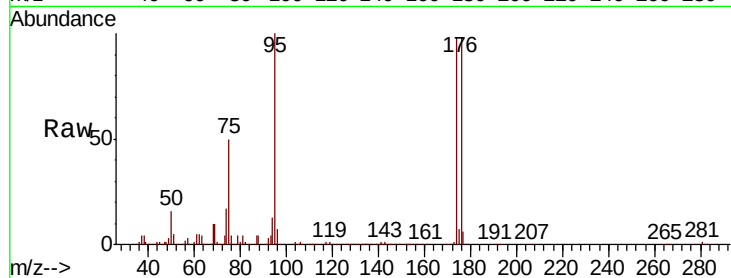
Tot Ion: 75 Resp: 334406

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



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

