

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053983.D
 Acq On : 27 Feb 2019 21:58
 Operator : JC/SP
 Sample : K1353-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 28 00:12:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	619157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1143206	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1127104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	430438	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	402972	55.52	ug/l	0.00
Spiked Amount			Recovery	=	111.04%	
35) Dibromofluoromethane	7.59	113	368129	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
50) Toluene-d8	10.09	98	1450839	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
62) 4-Bromofluorobenzene	12.40	95	499799	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	

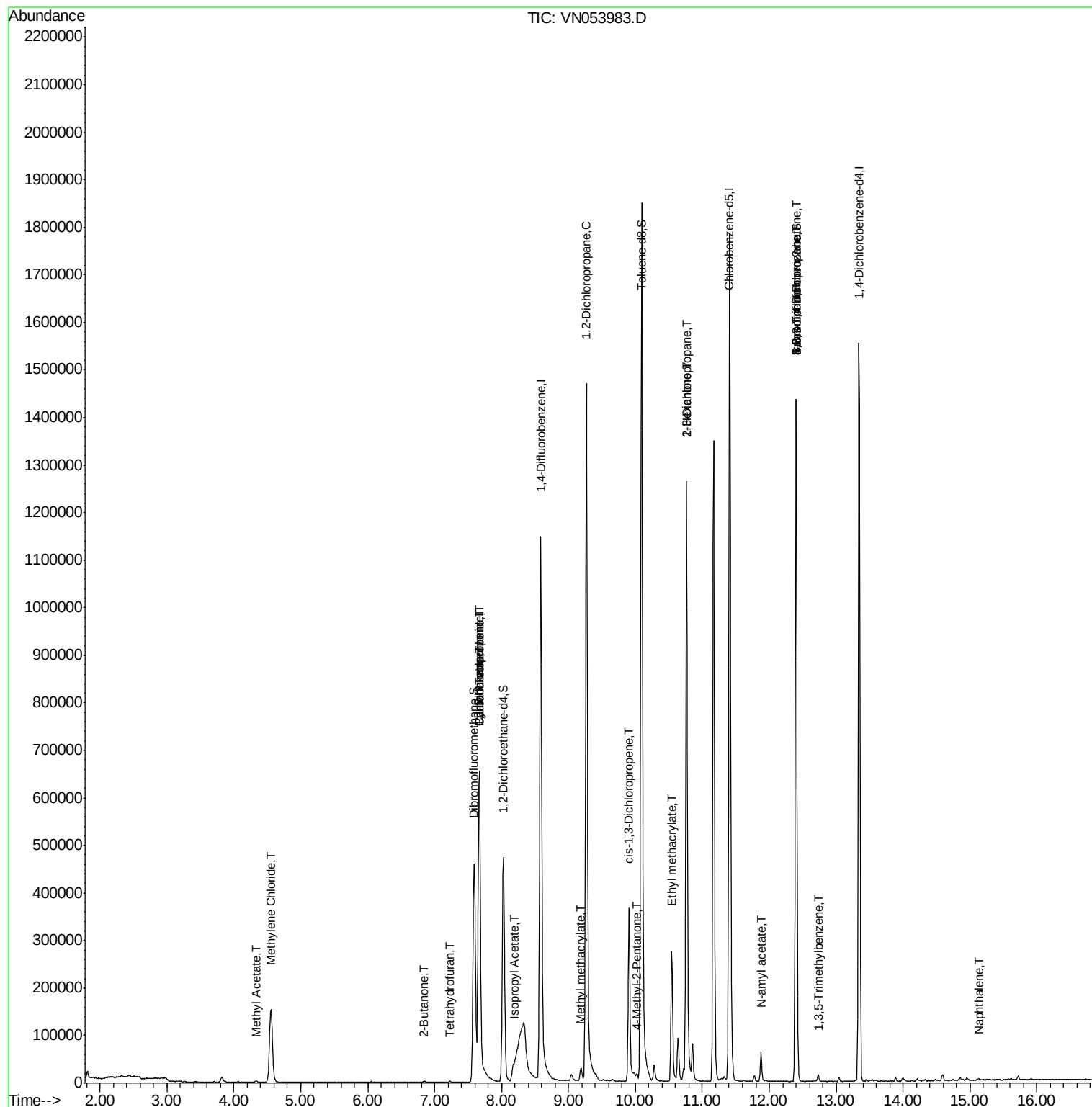
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	18956	Below Cal		91
18) Methyl Acetate	4.33	43	4557	0.898	ug/l #	64
20) Methylene Chloride	4.55	84	115996	16.148	ug/l	89
25) 2-Butanone	6.84	43	1957	0.687	ug/l	95
29) Tetrahydrofuran	7.22	42	1473	0.776	ug/l #	56
31) Cyclohexane	7.66	56	10856	0.530	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43392	4.081	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54846	4.960	ug/l #	18
43) Isopropyl Acetate	8.18	43	40686	3.174	ug/l #	85
45) 1,2-Dichloropropane	9.27	63	1961	0.223	ug/l #	44
48) Methyl methacrylate	9.17	41	10704	1.816	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	10284	1.561	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	72076	5.829	ug/l #	69
56) Ethyl methacrylate	10.55	69	1556	2.114	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13266	1.093	ug/l #	43
59) 2-Hexanone	10.76	43	198541	46.349	ug/l #	48
71) Bromoform	12.40	173	4058	0.680	ug/l #	1
74) N-amyl acetate	11.88	43	20098	2.289	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	243995	35.336	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5896	0.215	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	243995	111.684	ug/l #	15
95) Naphthalene	15.13	128	2435	3.346	ug/l #	93

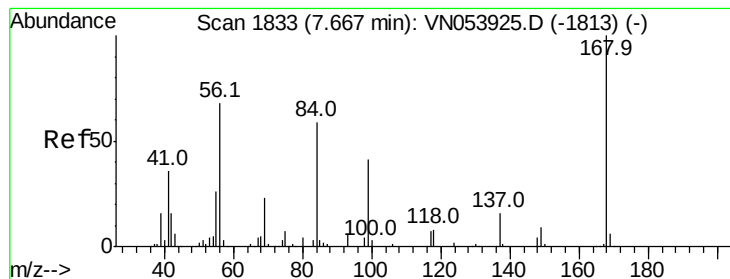
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 26 05:37:40 2019
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: VN053983.D

Acq: 27 Feb 2019 21:58

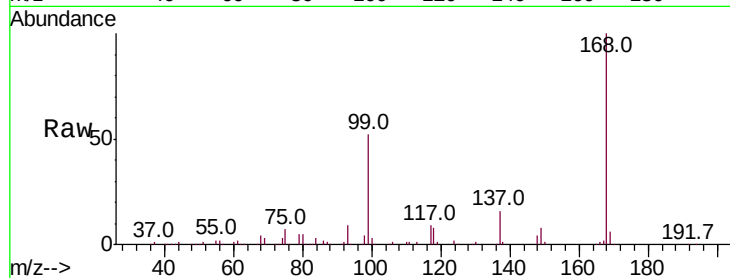
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 619157

Ion Ratio Lower Upper

168 100

99 52.1 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

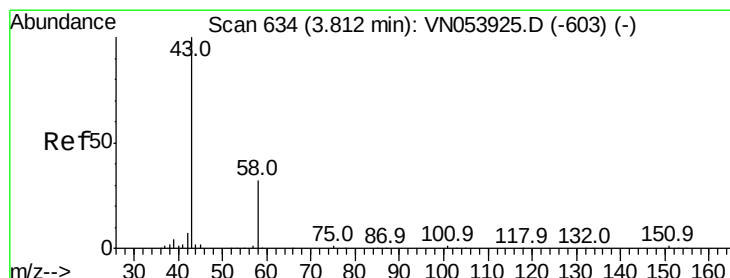
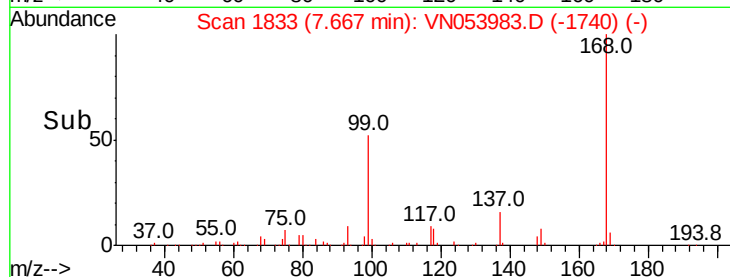
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053983.D

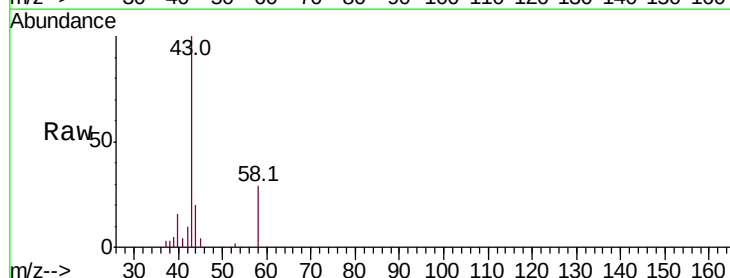
Acq: 27 Feb 2019 21:58

Tgt Ion: 43 Resp: 18956

Ion Ratio Lower Upper

43 100

58 29.2 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

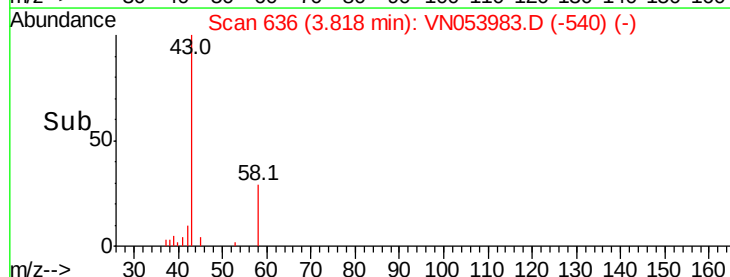
4000

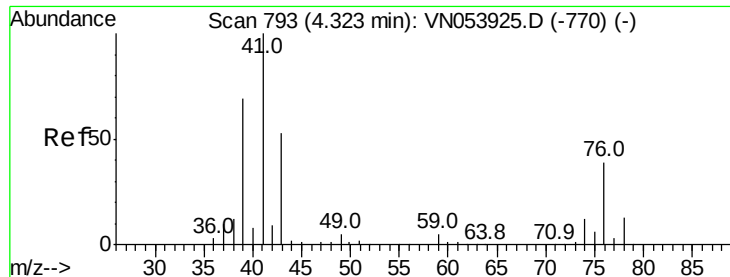
2000

0

3.70 3.80 3.90

Time-->





#18

Methyl Acetate

Concen: 0.898 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

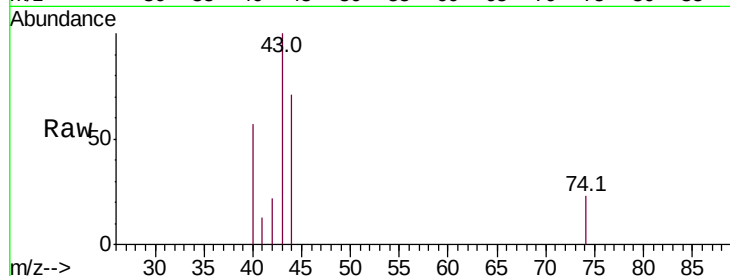
ClientSampled :

Tot Ion: 43 Resp: 4557

Ion Ratio Lower Upper

43 100

74 7.5 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1500

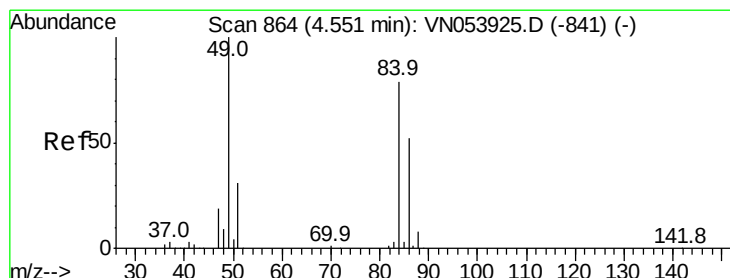
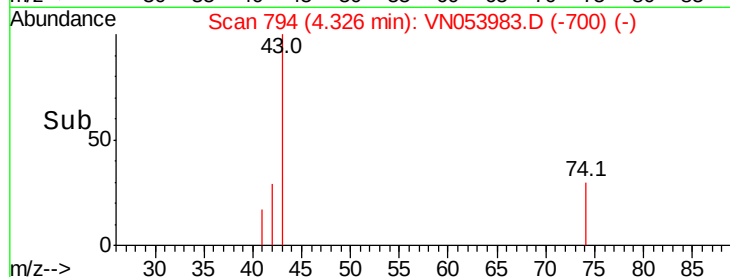
1000

500

0

4.25 4.30 4.35 4.40

Time-->



#20

Methylene Chloride

Concen: 16.148 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Tgt Ion: 84 Resp: 115996

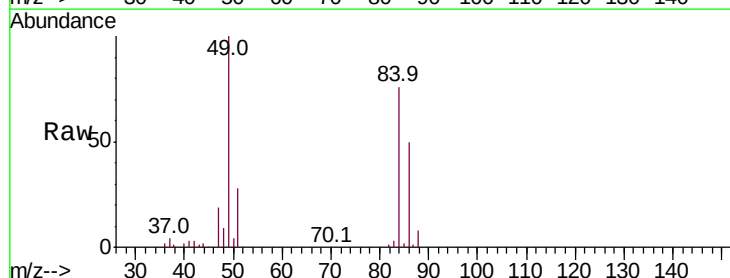
Ion Ratio Lower Upper

84 100

49 131.8 89.7 134.5

51 37.4 27.8 41.8

86 66.3 51.3 76.9



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

60000

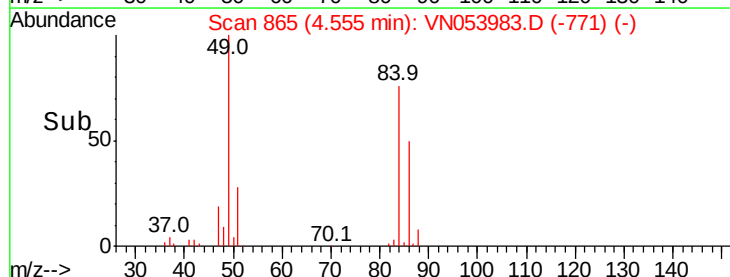
40000

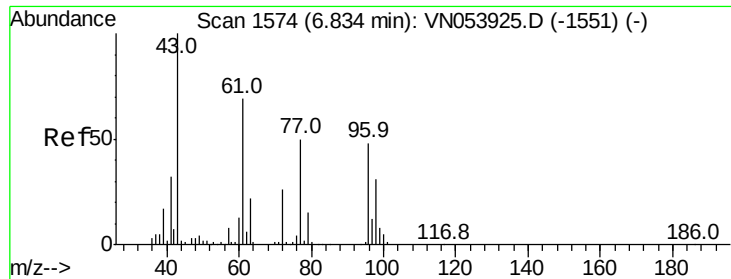
20000

0

4.50 4.60

Time-->





#25

2-Butanone

Concen: 0.687 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

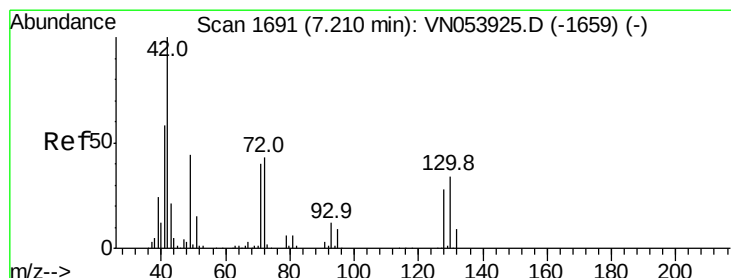
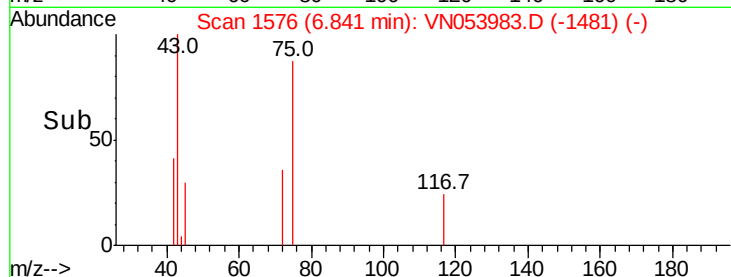
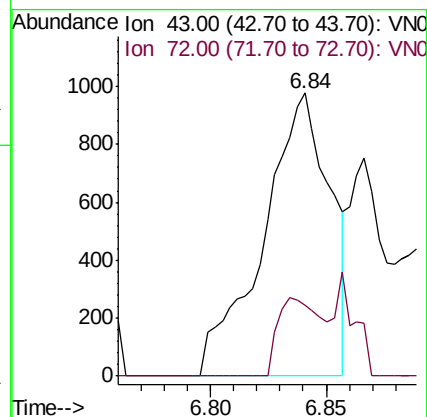
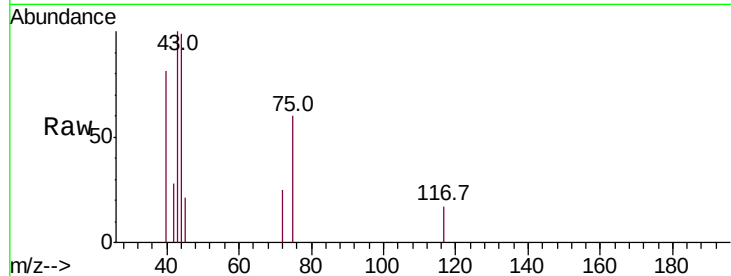
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1957

Ion Ratio Lower Upper

43 100

72 25.0 22.1 33.1



#29

Tetrahydrofuran

Concen: 0.776 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

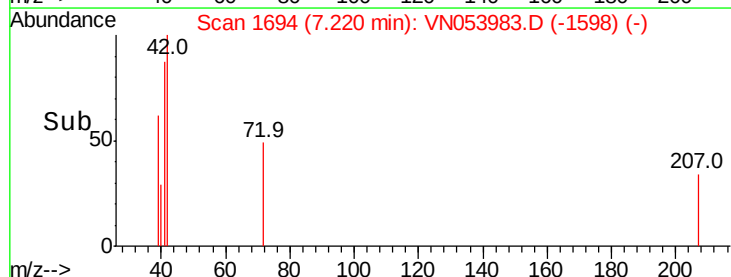
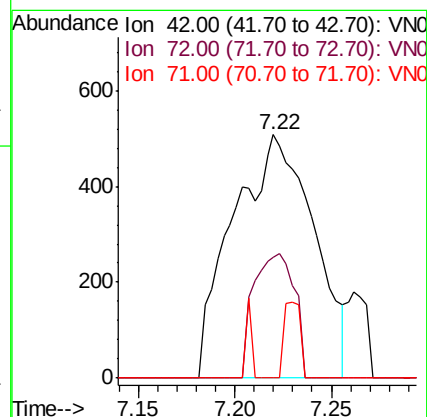
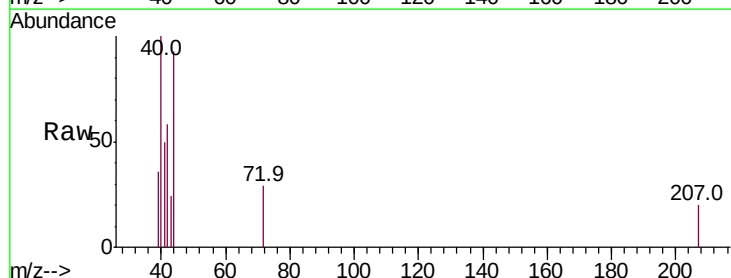
Tgt Ion: 42 Resp: 1473

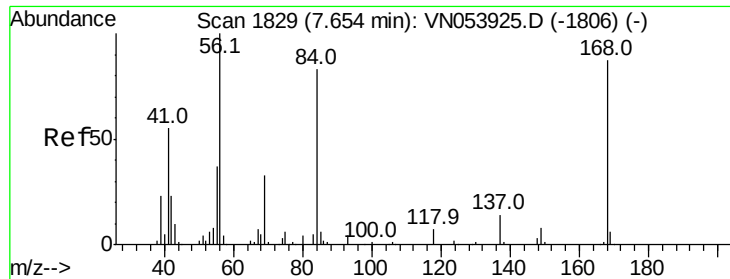
Ion Ratio Lower Upper

42 100

72 25.6 36.9 55.3#

71 6.1 34.6 52.0#





#31

Cyclohexane

Concen: 0.530 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :
MSVOA_N
ClientSampled :

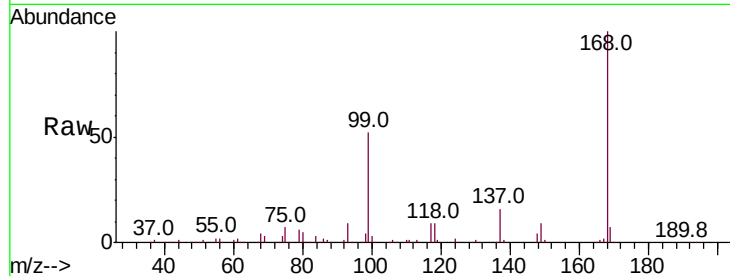
Tot Ion: 56 Resp: 10856

Ion Ratio Lower Upper

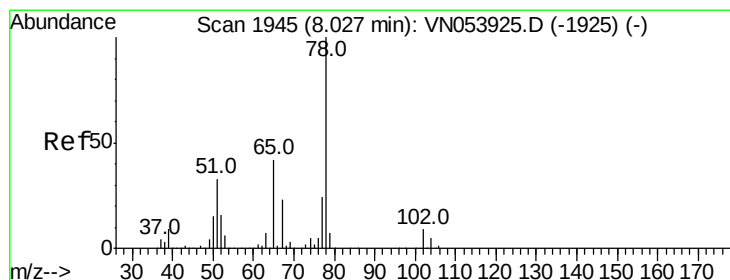
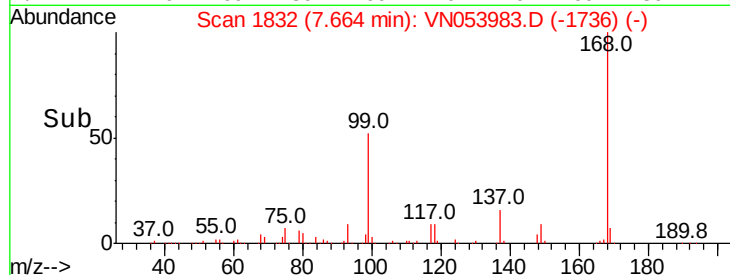
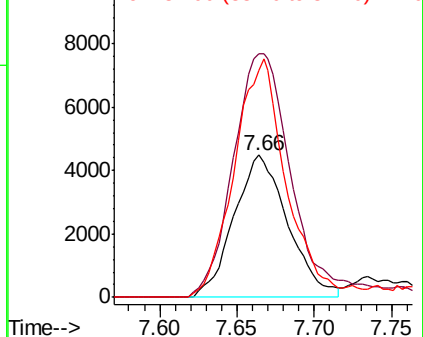
56 100

69 170.9 26.0 39.0#

84 159.8 69.1 103.7#



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: 55.522 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053983.D

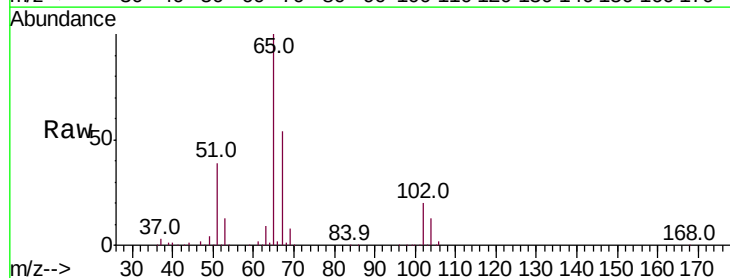
Acq: 27 Feb 2019 21:58

Tgt Ion: 65 Resp: 402972

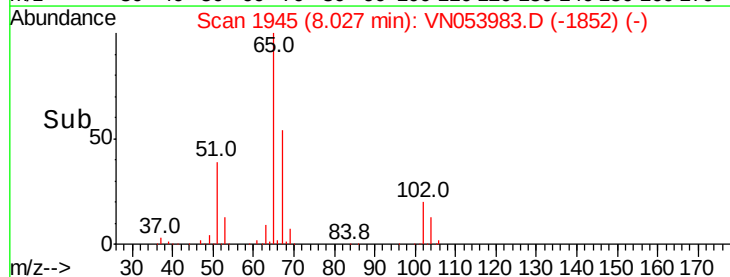
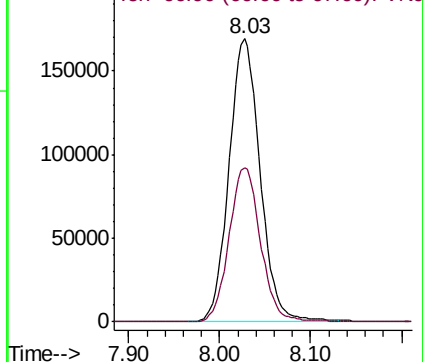
Ion Ratio Lower Upper

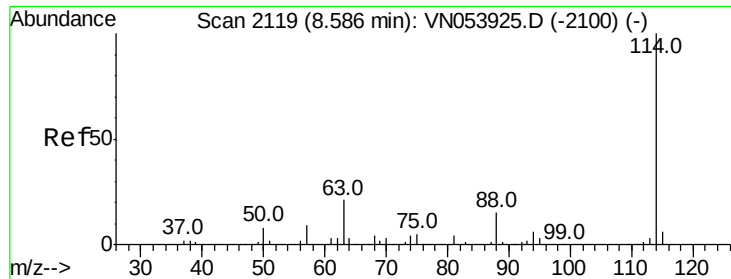
65 100

67 55.1 0.0 111.8



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: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

ClientSampleId :

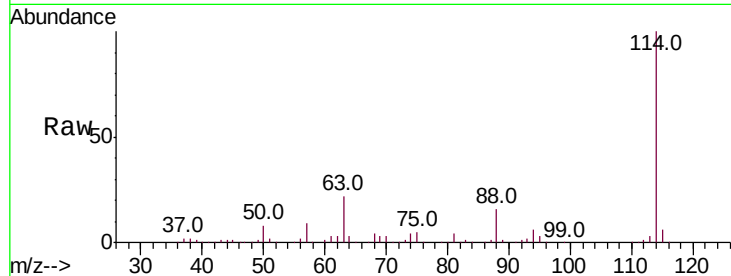
Tot Ion:114 Resp: 1143206

Ion Ratio Lower Upper

114 100

63 21.5 0.0 37.4

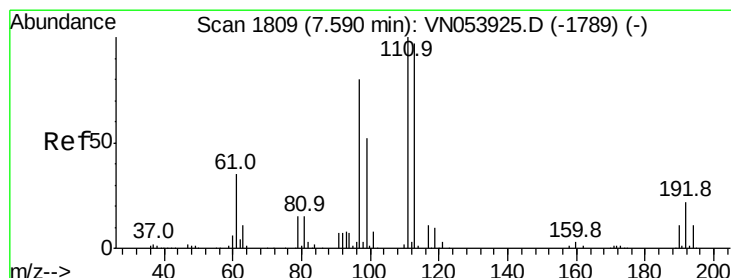
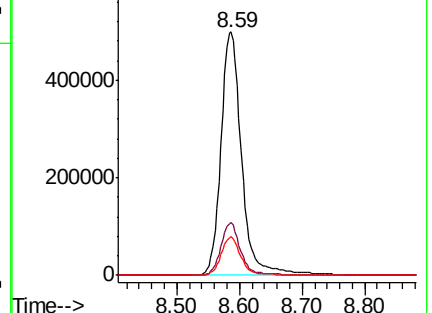
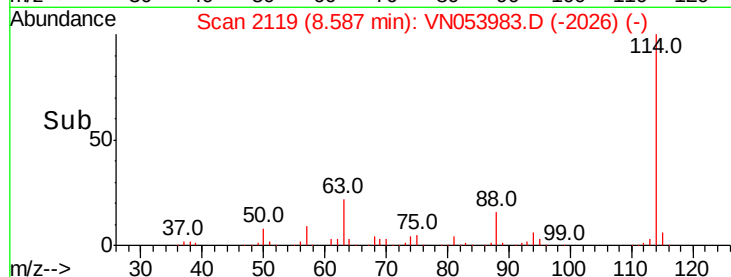
88 15.7 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.797 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

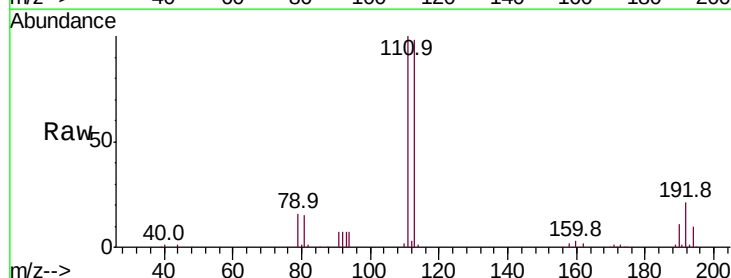
Tgt Ion:113 Resp: 368129

Ion Ratio Lower Upper

113 100

111 100.8 81.1 121.7

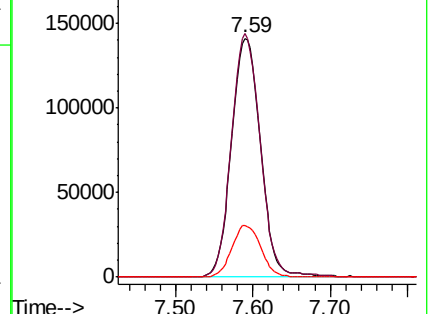
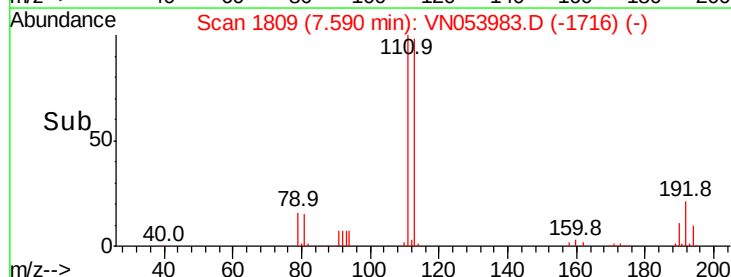
192 21.5 18.8 28.2

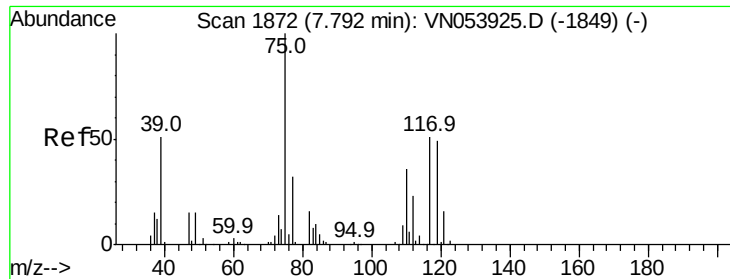


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

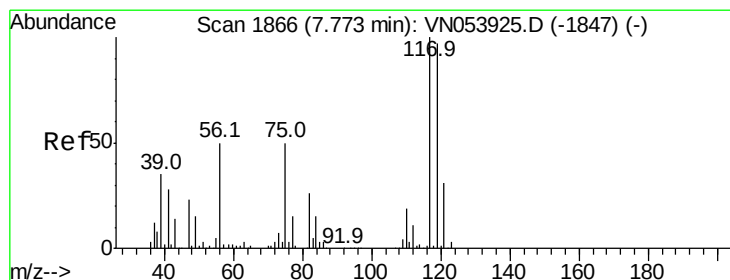
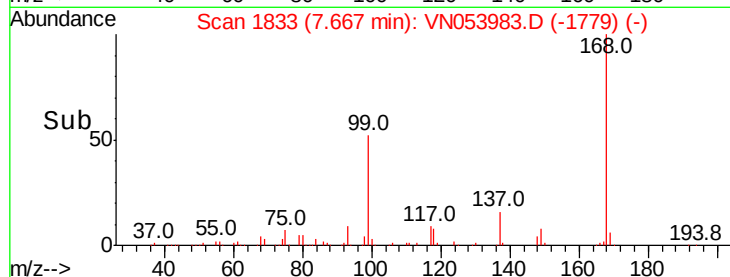
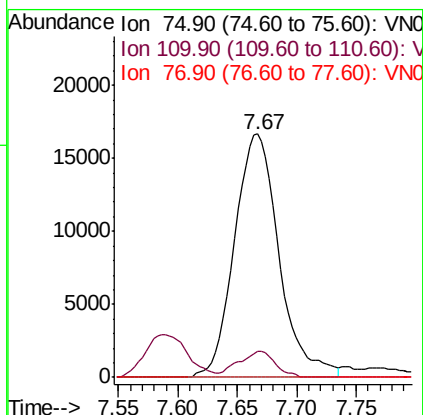
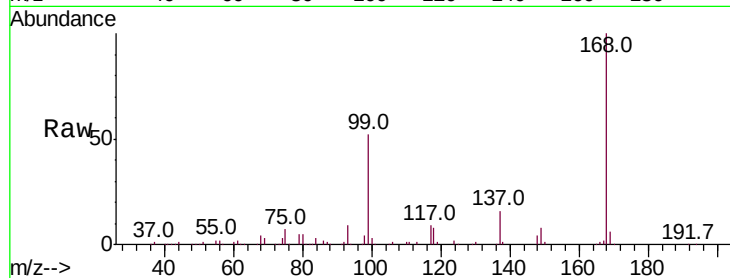




#36
 1,1-Dichloropropene
 Concen: 4.081 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053983.D
 Acq: 27 Feb 2019 21:58

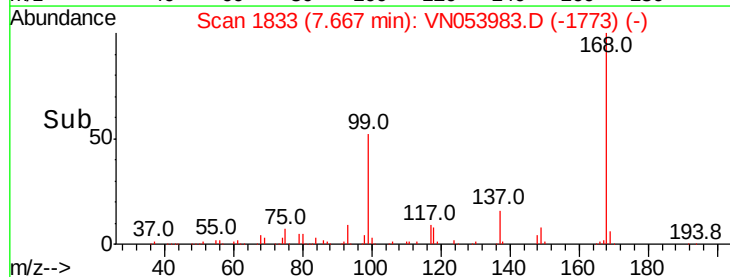
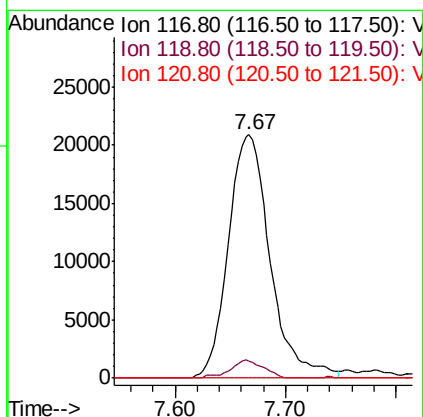
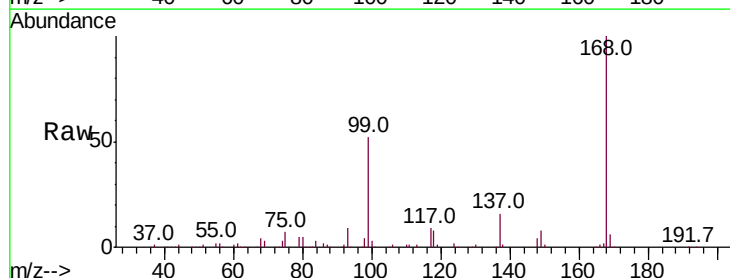
Instrument :
 MSVOA_N
 ClientSampled :

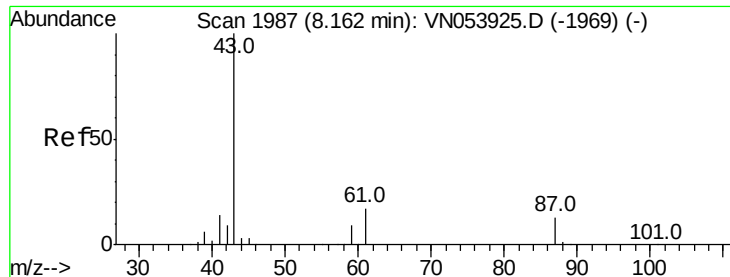
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	19.0	57.0#
77	0.0	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 4.960 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053983.D
 Acq: 27 Feb 2019 21:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.2	76.2	114.2#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 3.174 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

ClientSampleId :

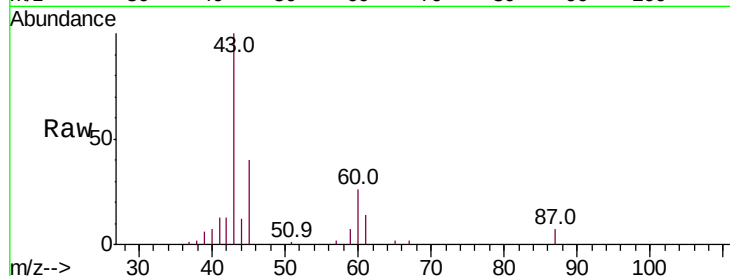
Tot Ion: 43 Resp: 40686

Ion Ratio Lower Upper

43 100

61 14.7 17.4 26.0#

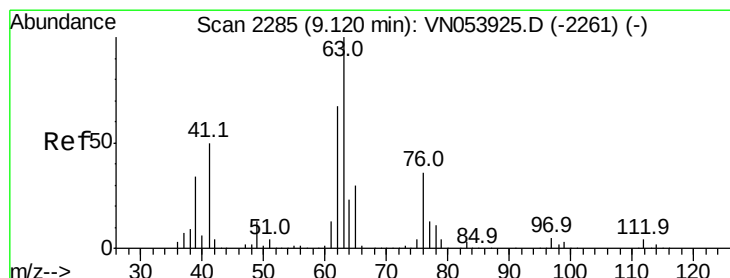
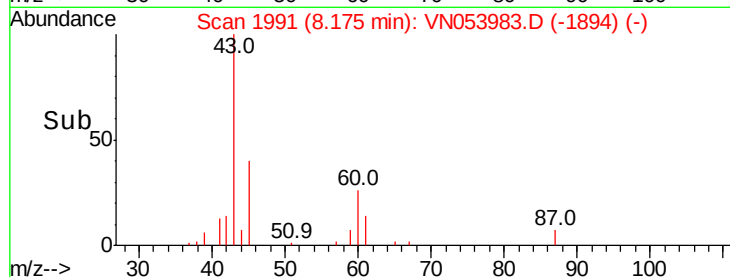
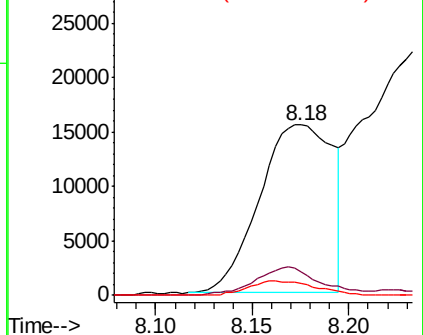
87 7.9 11.5 17.3#



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: 0.223 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053983.D

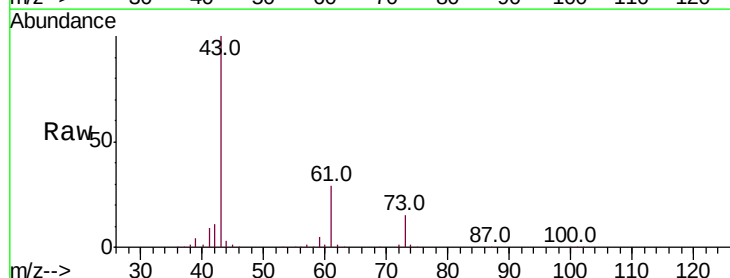
Acq: 27 Feb 2019 21:58

Tgt Ion: 63 Resp: 1961

Ion Ratio Lower Upper

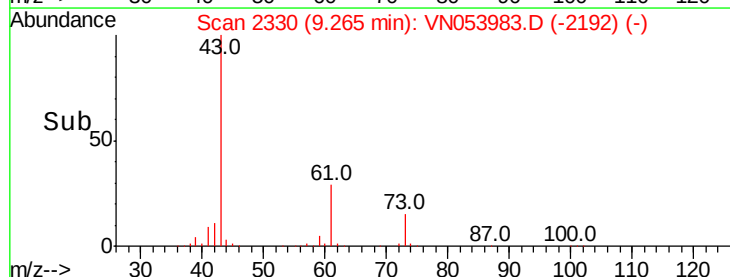
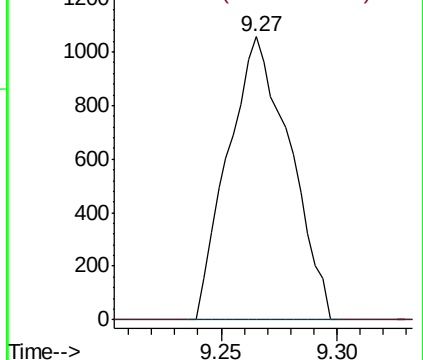
63 100

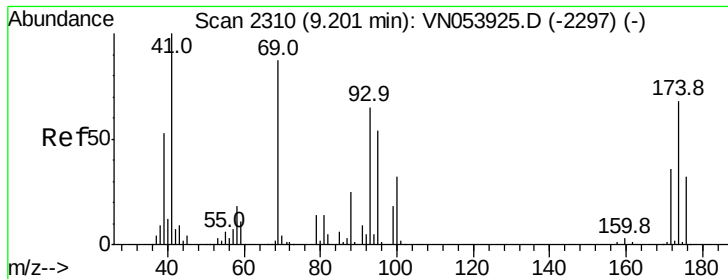
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

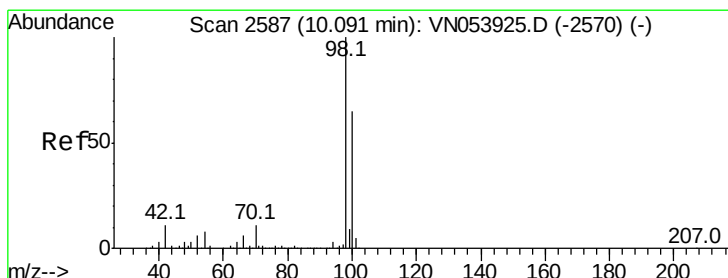
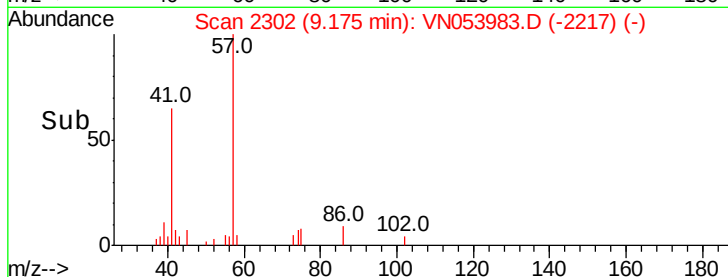
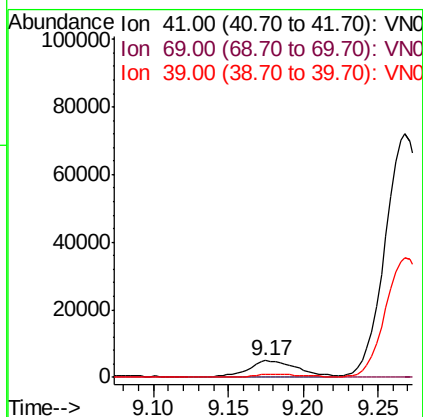
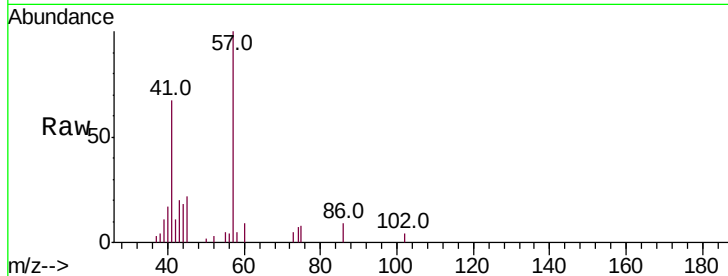




#48
Methvl methacrylate
Concen: 1.816 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN053983.D
Acq: 27 Feb 2019 21:58

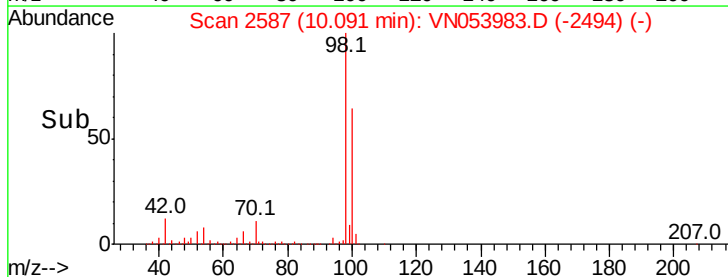
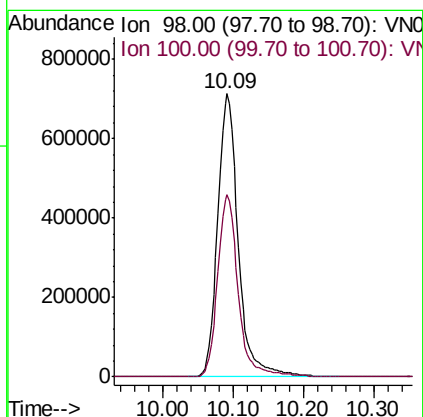
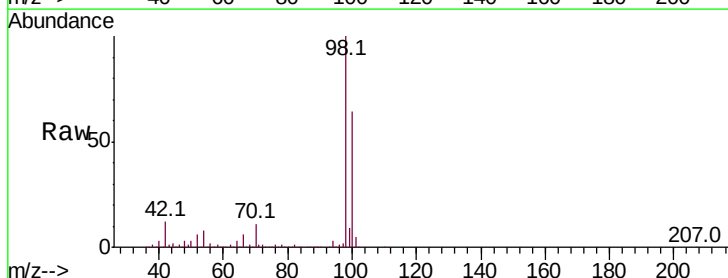
Instrument :
MSVOA_N
ClientSampled :

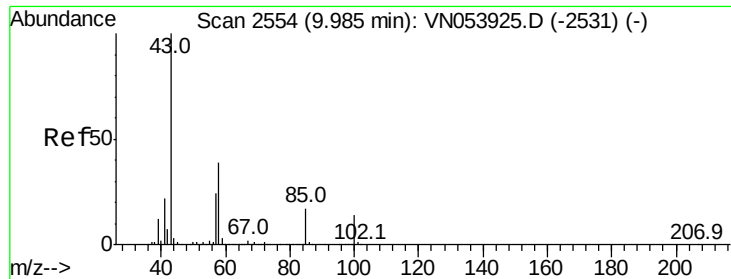
Tot Ion: 41 Resp: 10704
Ion Ratio Lower Upper
41 100
69 0.0 74.8 112.2#
39 0.0 39.0 58.6#



#50
Toluene-d8
Concen: 52.720 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053983.D
Acq: 27 Feb 2019 21:58

Tgt Ion: 98 Resp: 1450839
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9

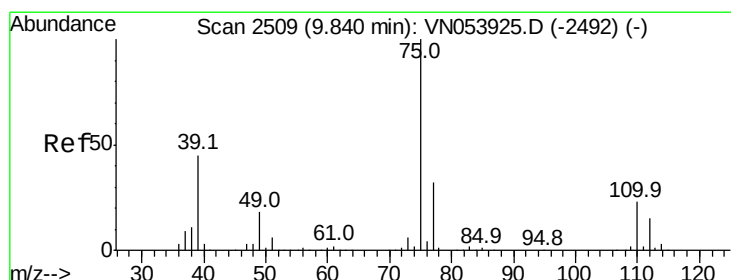
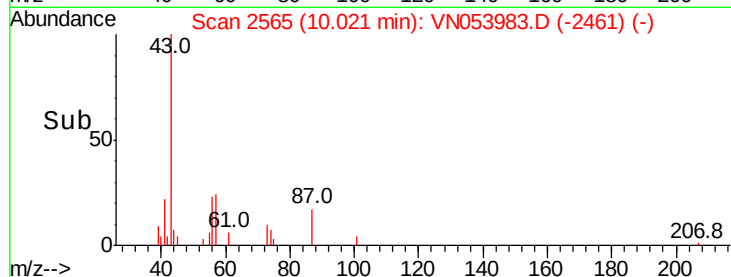
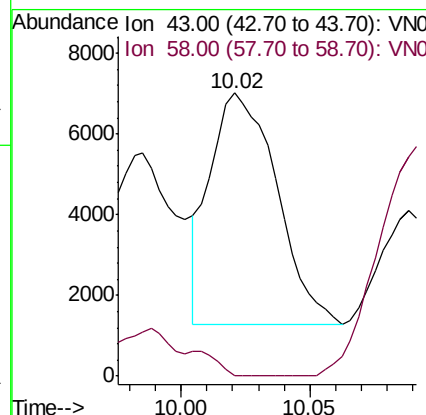
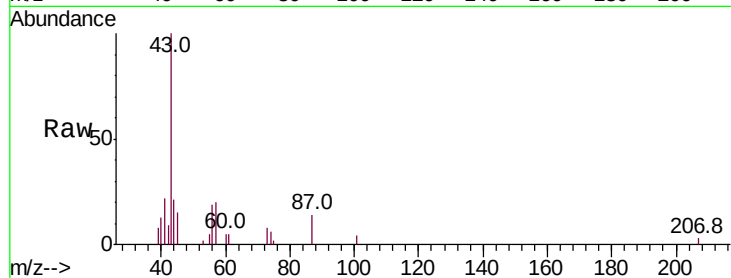




#51
4-Methyl-2-Pentanone
Concen: 1.561 ug/l
RT: 10.02 min Scan# 2565
Delta R.T. 0.04 min
Lab File: VN053983.D
Acq: 27 Feb 2019 21:58

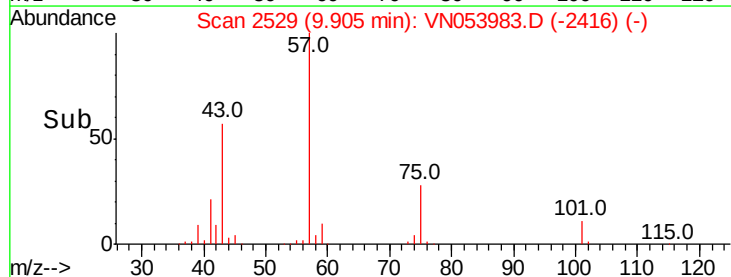
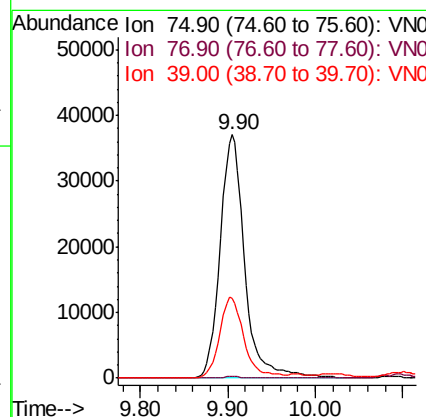
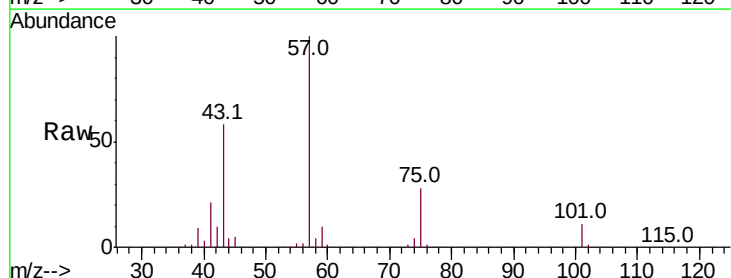
Instrument :
MSVOA_N
ClientSampled :

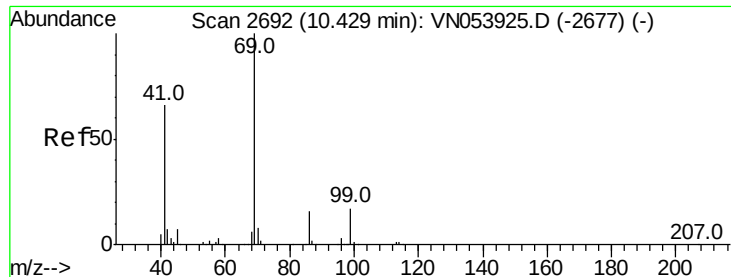
Tot Ion: 43 Resp: 10284
Ion Ratio Lower Upper
43 100
58 0.0 32.7 49.1#



#54
cis-1,3-Dichloropropene
Concen: 5.829 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN053983.D
Acq: 27 Feb 2019 21:58

Tgt Ion: 75 Resp: 72076
Ion Ratio Lower Upper
75 100
77 0.6 25.8 38.6#
39 32.9 31.4 47.0





#56

Ethyl methacrylate

Concen: 2.114 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

ClientSampleId :

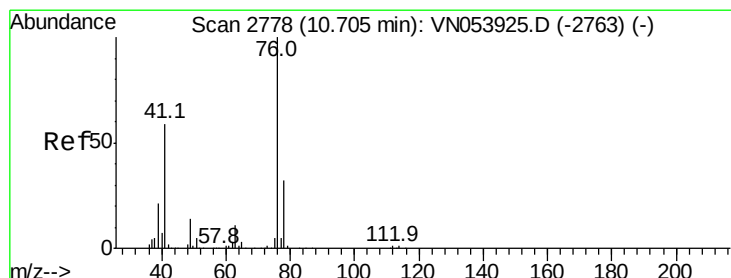
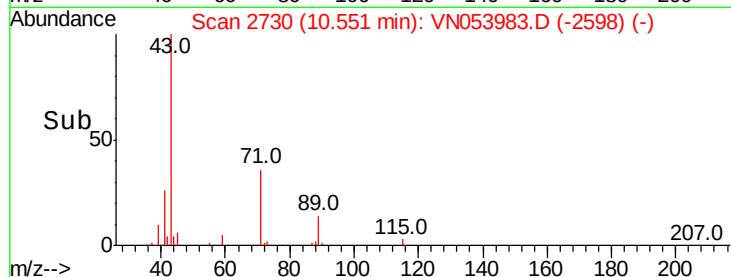
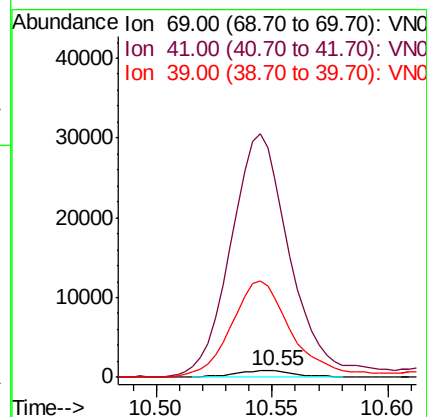
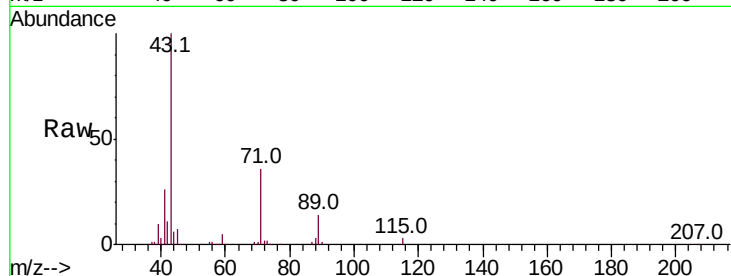
Tot Ion: 69 Resp: 1556

Ion Ratio Lower Upper

69 100

41 3523.9 47.5 71.3#

39 1414.4 23.4 35.0#



#57

1,3-Dichloropropane

Concen: 1.093 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053983.D

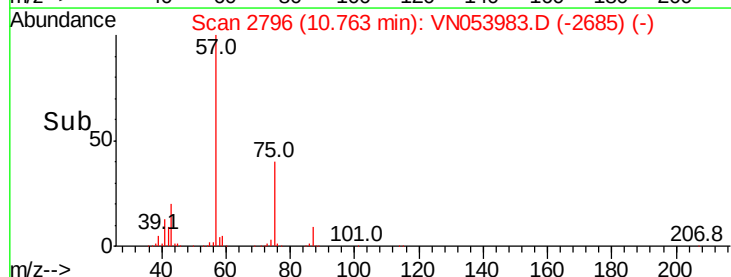
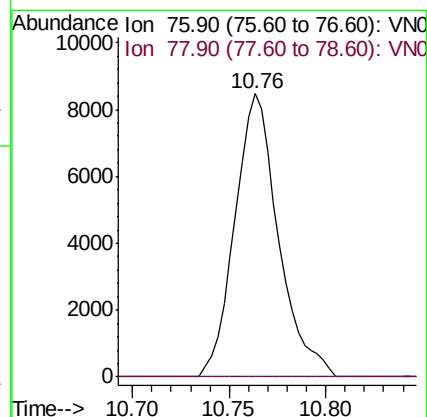
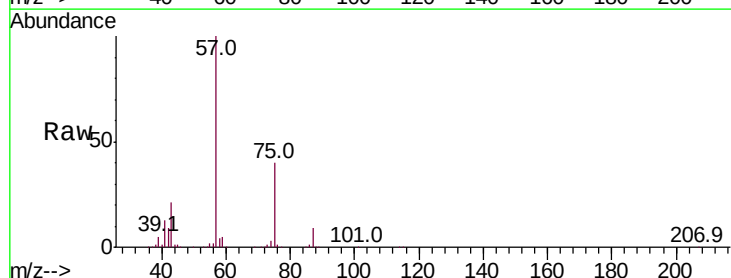
Acq: 27 Feb 2019 21:58

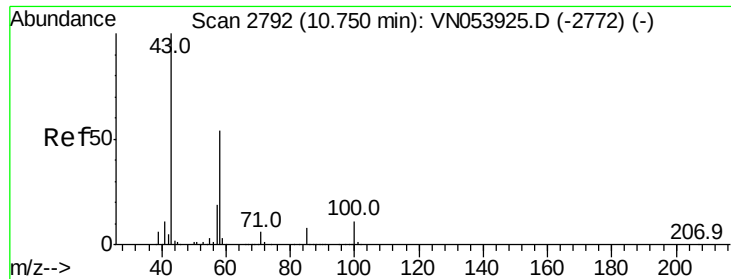
Tgt Ion: 76 Resp: 13266

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 46.349 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

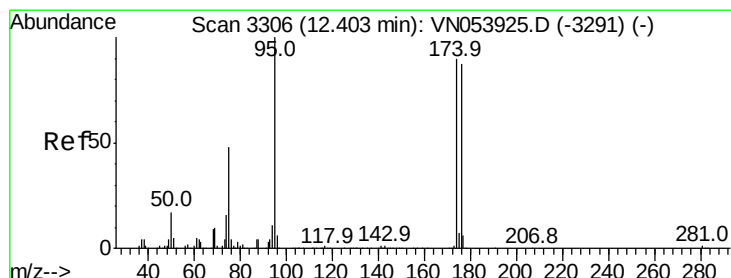
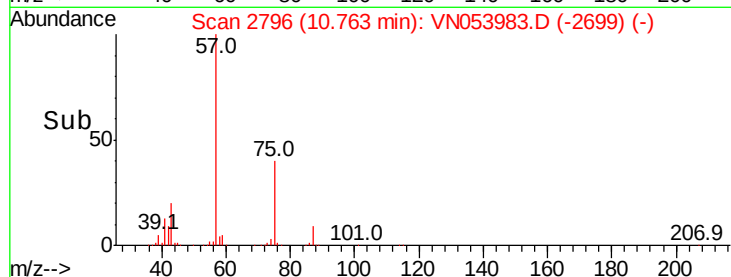
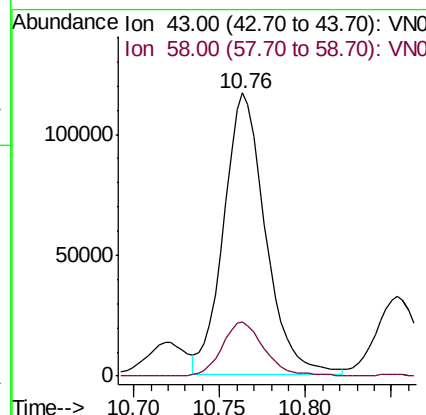
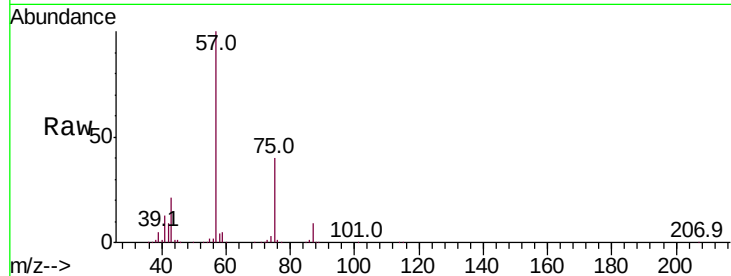
ClientSampled :

Tot Ion: 43 Resp: 198541

Ion Ratio Lower Upper

43 100

58 19.6 29.1 87.4#



#62

4-Bromofluorobenzene

Concen: 54.511 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

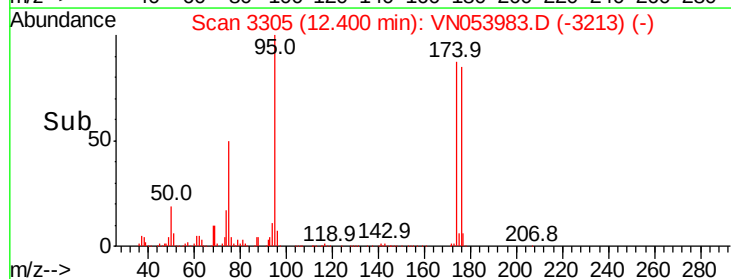
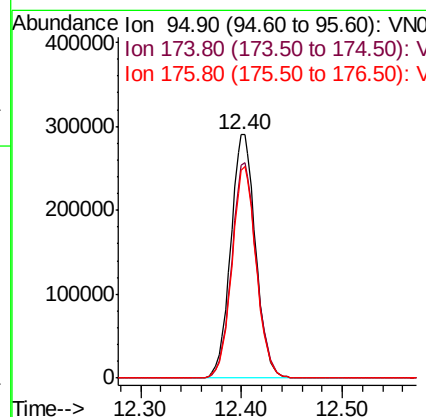
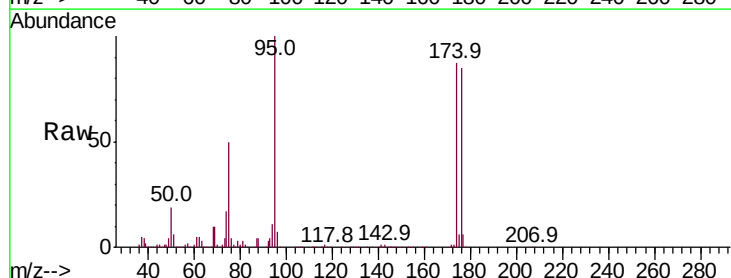
Tgt Ion: 95 Resp: 499799

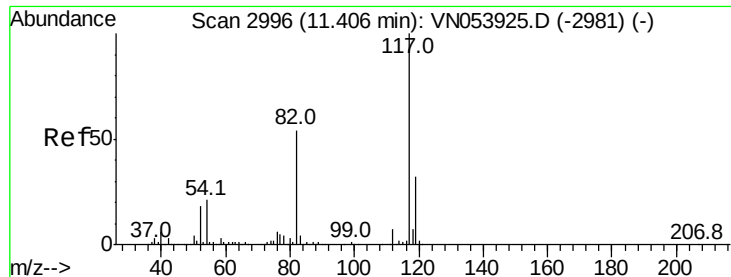
Ion Ratio Lower Upper

95 100

174 87.5 0.0 188.8

176 84.8 0.0 182.6

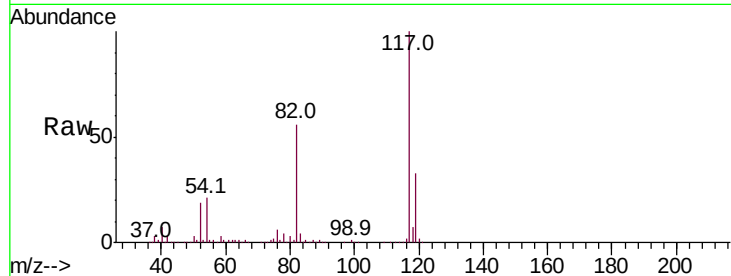




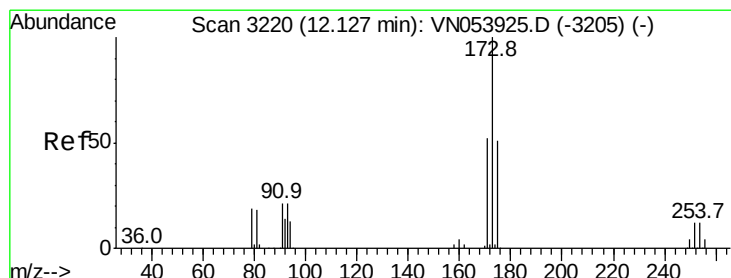
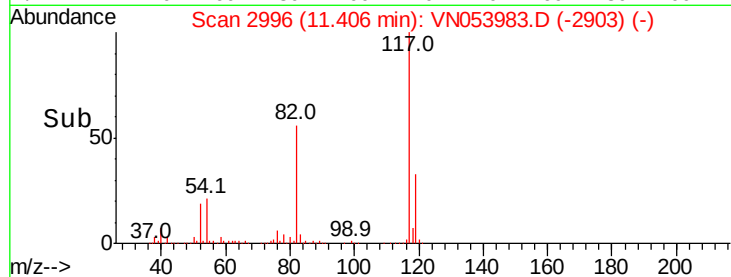
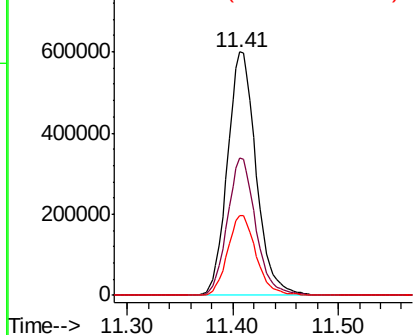
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053983.D
Acq: 27 Feb 2019 21:58

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1127104
Ion Ratio Lower Upper
117 100
82 56.3 41.4 62.2
119 32.8 25.3 37.9

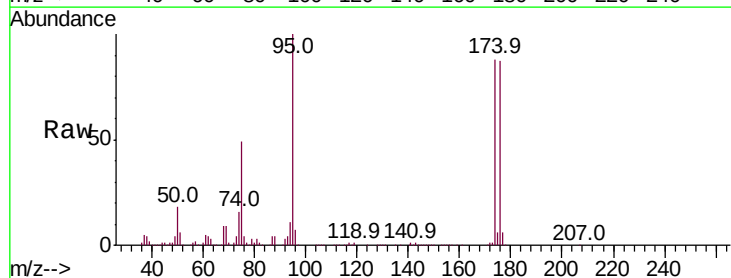


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

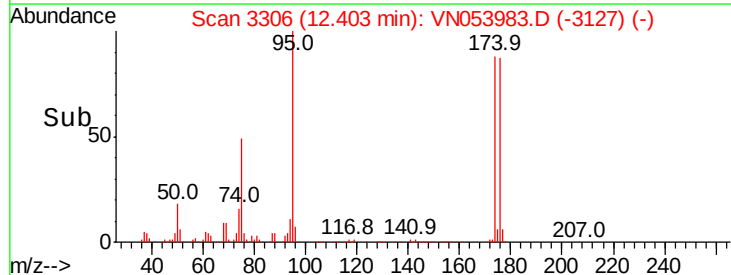
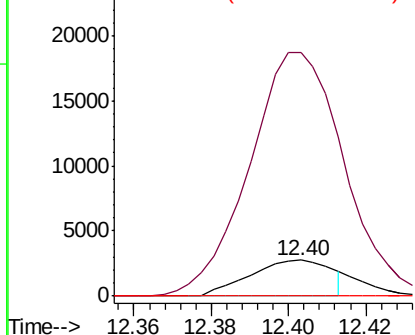


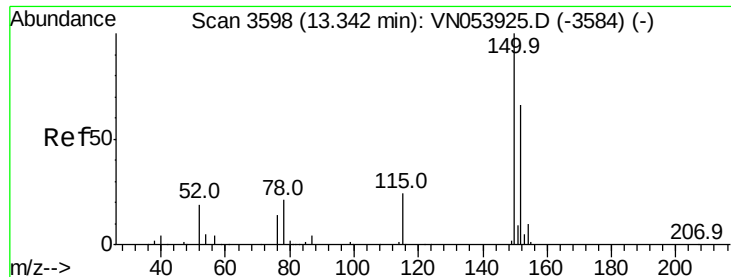
#71
Bromoform
Concen: 0.680 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053983.D
Acq: 27 Feb 2019 21:58

Tgt Ion:173 Resp: 4058
Ion Ratio Lower Upper
173 100
175 678.3 24.3 72.8#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

ClientSampled :

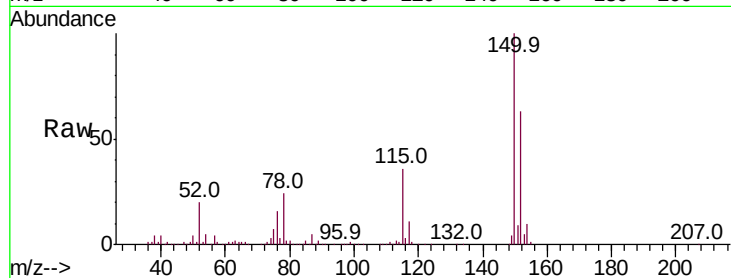
Tot Ion:152 Resp: 430438

Ion Ratio Lower Upper

152 100

115 57.2 27.2 81.6

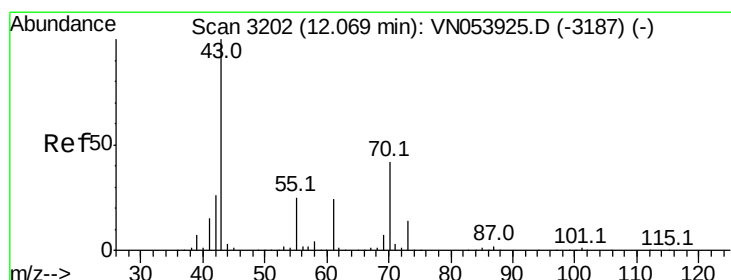
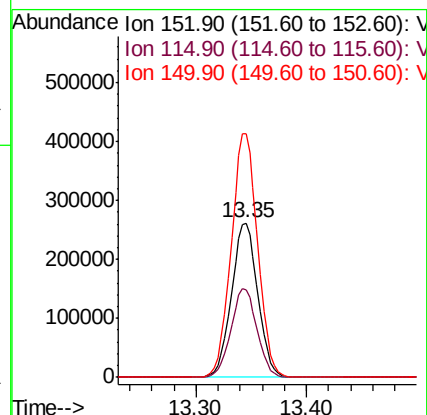
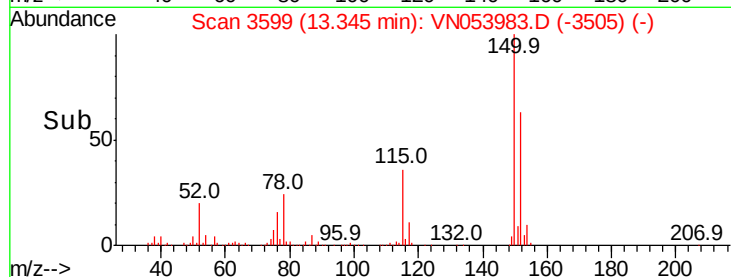
150 158.8 0.0 348.2



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



#74

N-ethyl acetate

Concen: 2.289 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Tgt Ion: 43 Resp: 20098

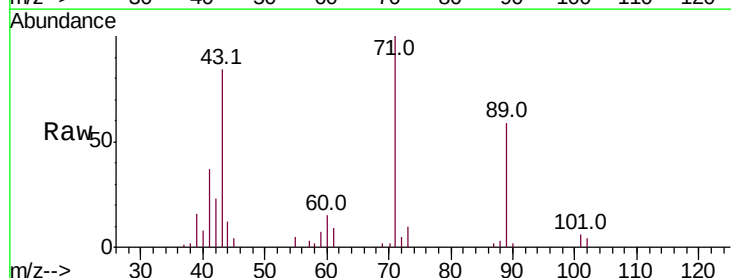
Ion Ratio Lower Upper

43 100

70 2.4 37.4 56.2#

55 6.3 21.4 32.0#

61 9.9 20.9 31.3#

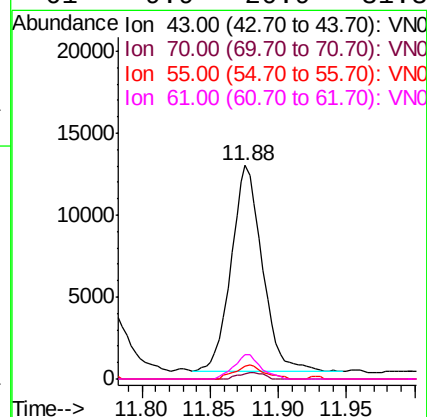
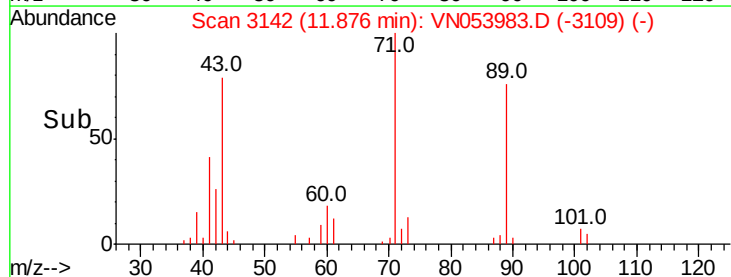


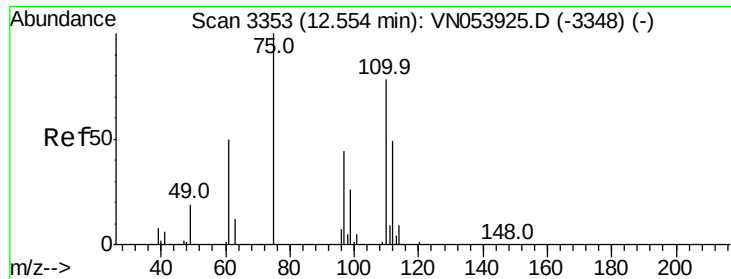
Abundance Ion 43.00 (42.70 to 43.70): V

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

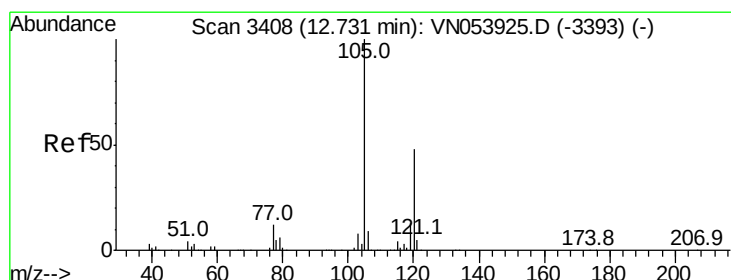
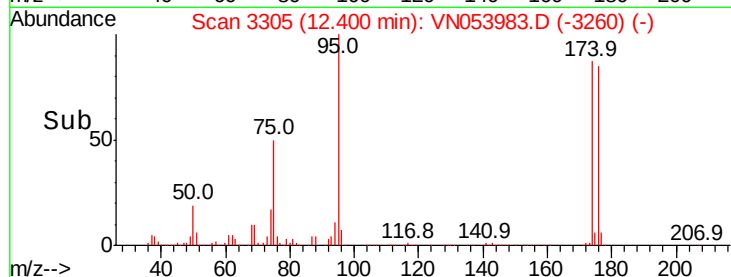
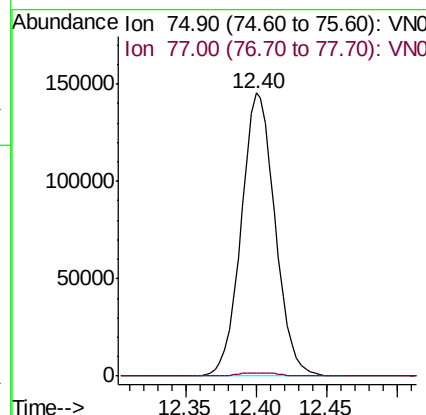
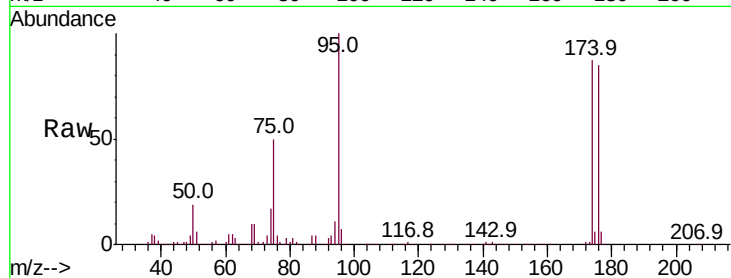




#76
 1,2,3-Trichloropropane
 Concen: 35.336 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN053983.D
 Acq: 27 Feb 2019 21:58

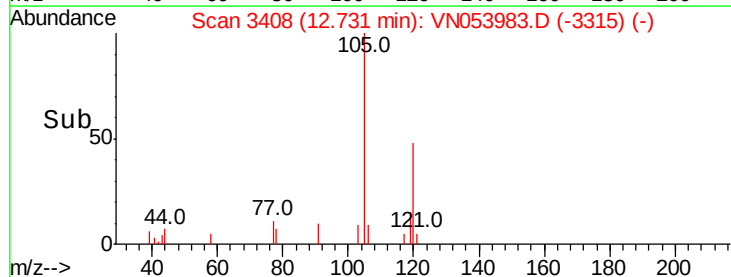
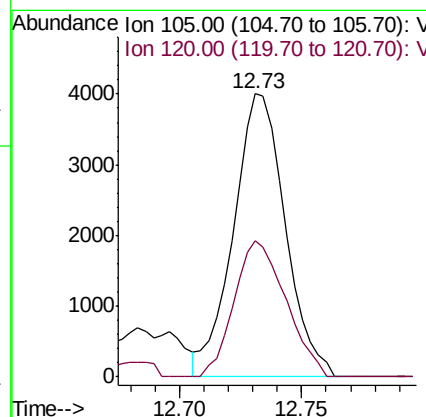
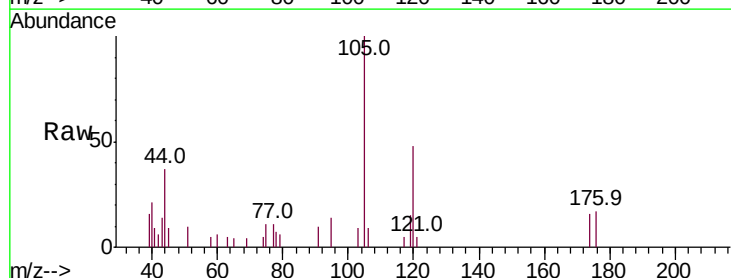
Instrument :
 MSVOA_N
 ClientSampled :

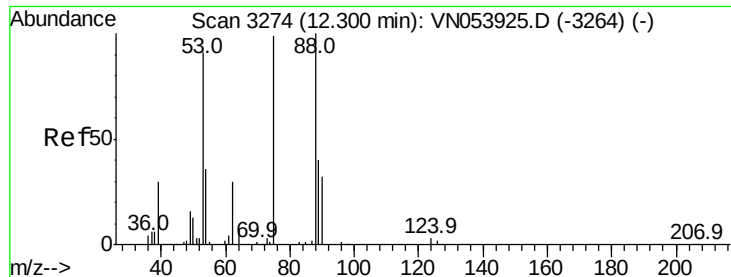
Tot Ion: 75 Resp: 243995
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.215 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053983.D
 Acq: 27 Feb 2019 21:58

Tgt Ion: 105 Resp: 5896
 Ion Ratio Lower Upper
 105 100
 120 48.1 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 111.684 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

Instrument :

MSVOA_N

ClientSampled :

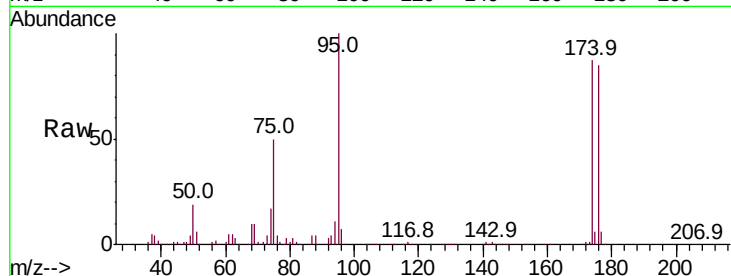
Tot Ion: 75 Resp: 243995

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

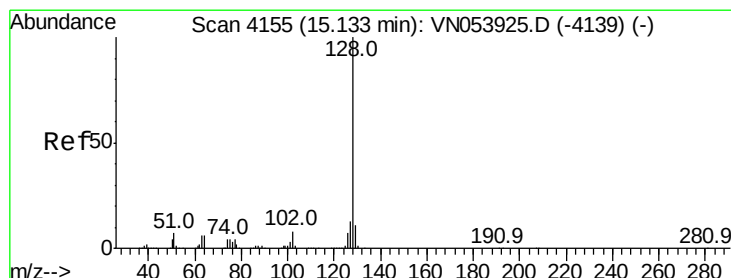
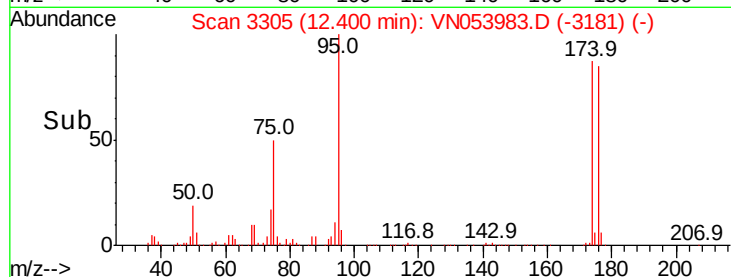
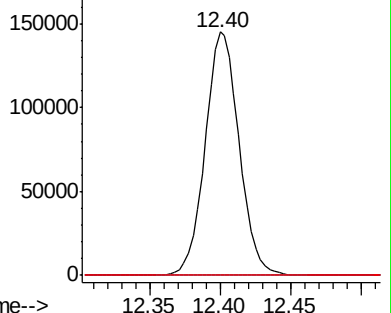
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053925.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053925.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053925.D (-3264) (-)



#95

Naphthalene

Concen: 3.346 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053983.D

Acq: 27 Feb 2019 21:58

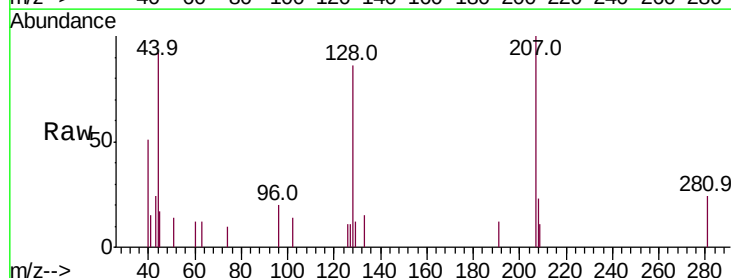
Tgt Ion: 128 Resp: 2435

Ion Ratio Lower Upper

128 100

127 10.2 10.2 15.2

129 8.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN053925.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN053925.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN053925.D (-4139) (-)

