

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022819\
 Data File : VN053994.D
 Acq On : 28 Feb 2019 10:15
 Operator : JC/SP
 Sample : VN0228WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 01 03:53:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	583936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1052922	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1009299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	360157	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	386464	56.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.92%	
35) Dibromofluoromethane	7.59	113	355435	52.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.40%	
50) Toluene-d8	10.09	98	1322243	52.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.34%	
62) 4-Bromofluorobenzene	12.40	95	424004	50.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.42%	

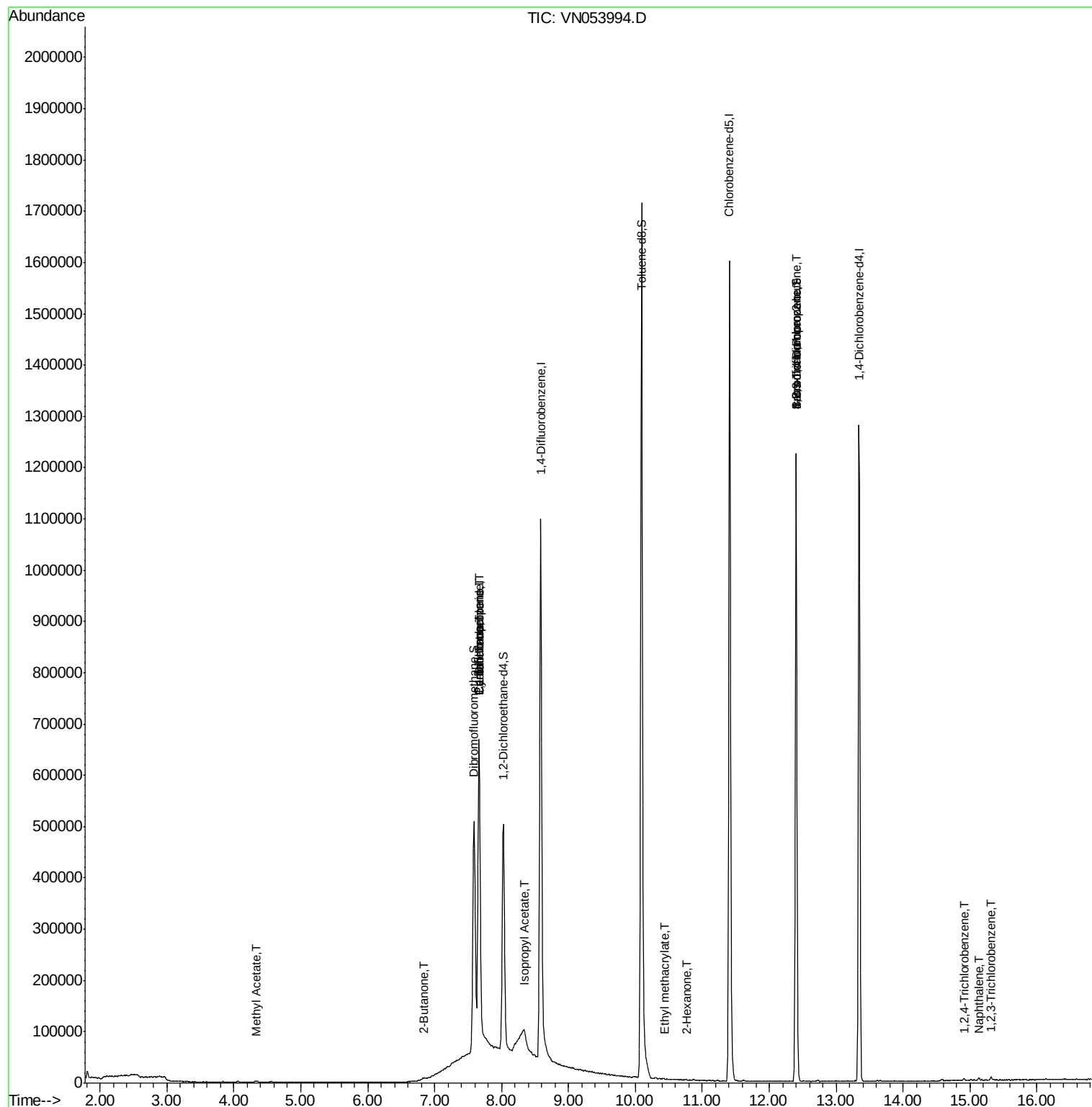
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	355	Below Cal	#	40
18) Methyl Acetate	4.34	43	4661	0.974	ug/l #	73
25) 2-Butanone	6.85	43	744	0.277	ug/l #	47
31) Cyclohexane	7.66	56	10909	0.592	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	39553	4.039	ug/l #	42
38) Carbon Tetrachloride	7.67	117	48078	4.721	ug/l #	17
43) Isopropyl Acetate	8.33	43	136095	11.529	ug/l #	59
56) Ethyl methacrylate	10.44	69	72	1.963	ug/l #	39
59) 2-Hexanone	10.76	43	1863	0.472	ug/l #	78
71) Bromoform	12.40	173	3423	0.641	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	209206	36.210	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	209206	114.447	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1700	2.468	ug/l #	86
95) Naphthalene	15.13	128	4788	3.526	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.32	180	2680	1.967	ug/l	90

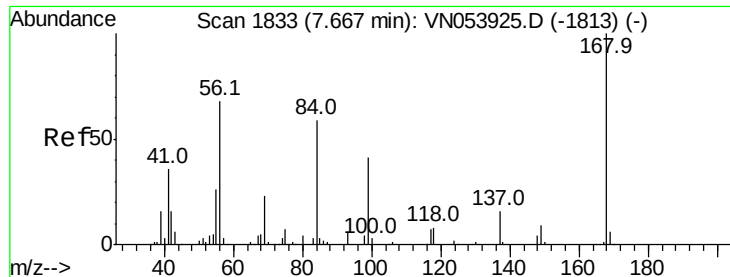
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 28 04:05:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

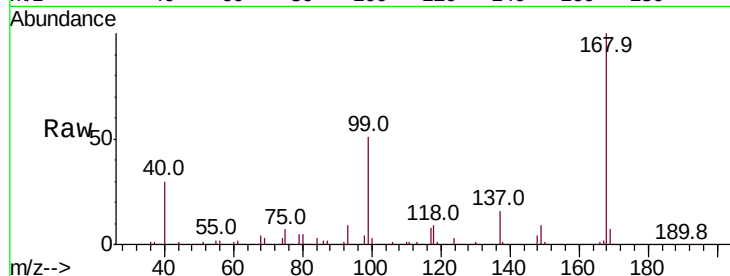
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 583936

Ion Ratio Lower Upper

168 100

99 51.4 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN053925.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053925.D (-1813) (-)

7.66

250000

200000

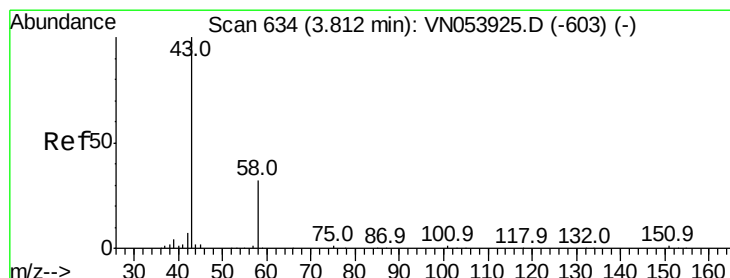
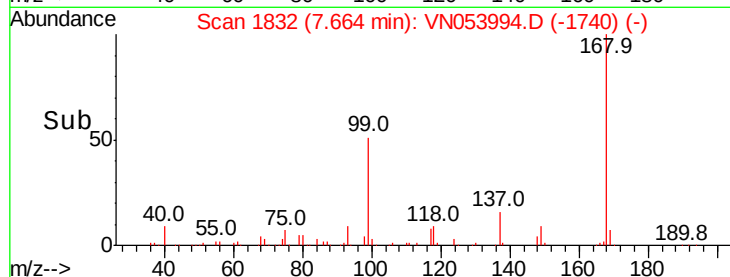
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: Below Cal

RT: 3.81 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN053994.D

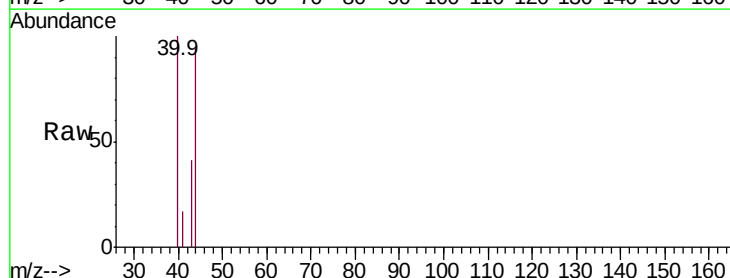
Acq: 28 Feb 2019 10:15

Tgt Ion: 43 Resp: 355

Ion Ratio Lower Upper

43 100

58 0.0 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VN053925.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053925.D (-603) (-)

3.81

400

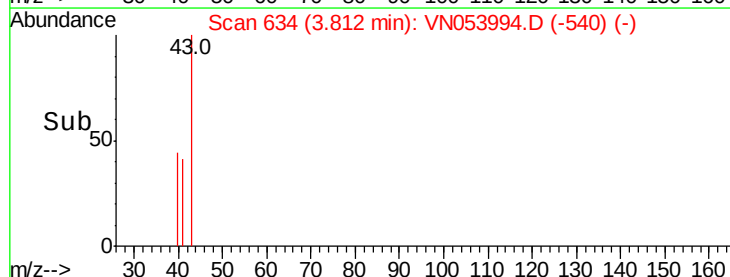
300

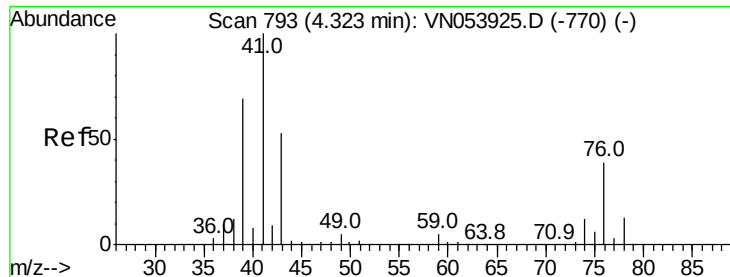
200

100

0

Time--> 3.76 3.78 3.80 3.82





#18

Methyl Acetate

Concen: 0.974 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

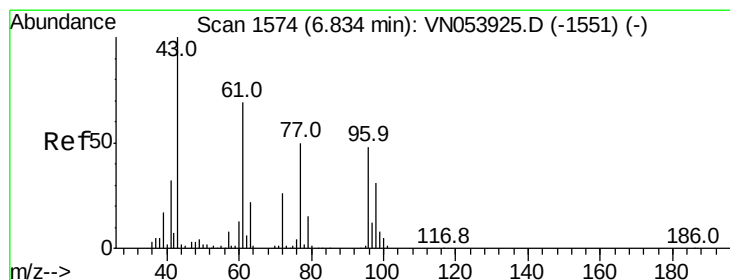
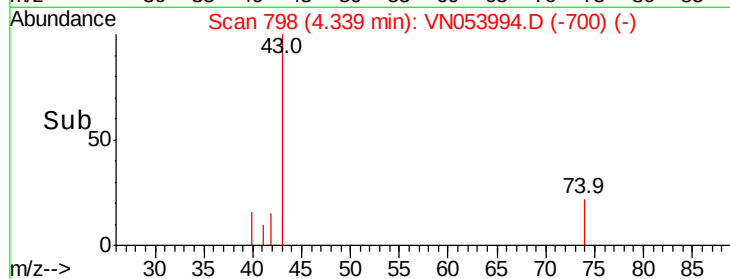
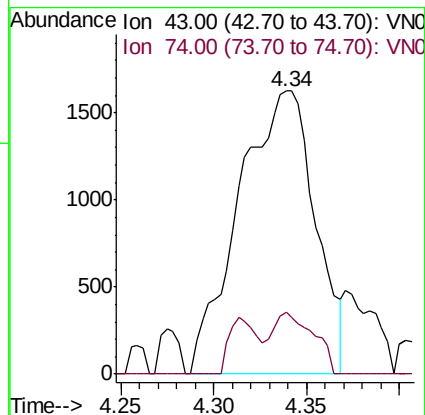
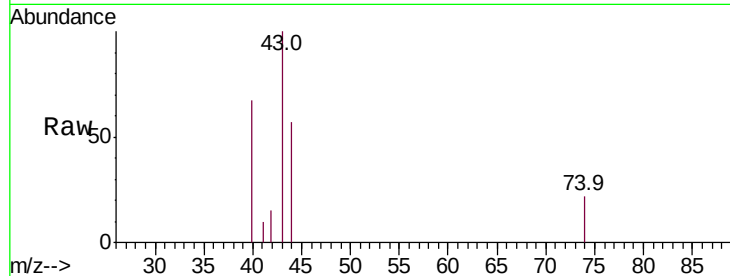
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4661

Ion Ratio Lower Upper

43 100

74 11.9 20.5 30.7#



#25

2-Butanone

Concen: 0.277 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053994.D

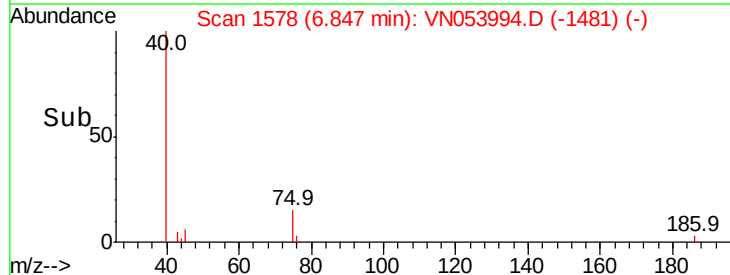
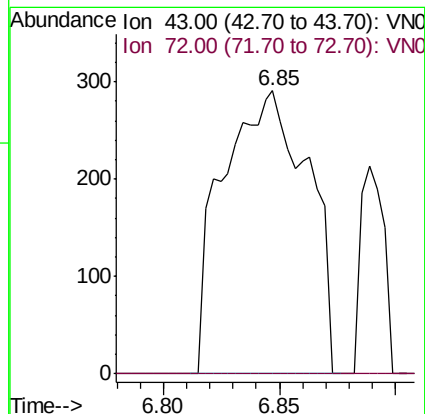
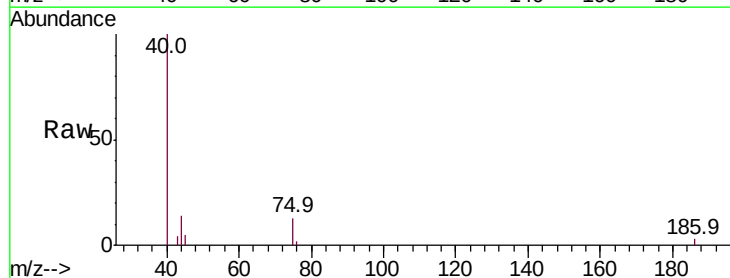
Acq: 28 Feb 2019 10:15

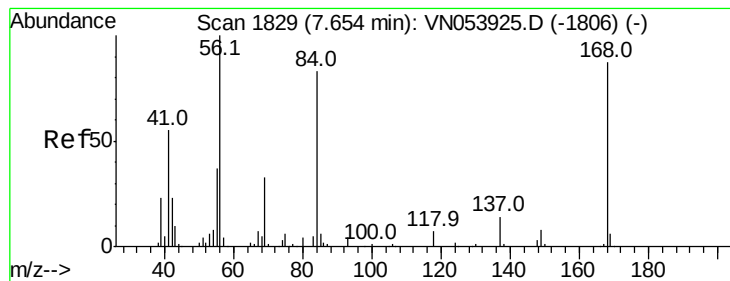
Tgt Ion: 43 Resp: 744

Ion Ratio Lower Upper

43 100

72 0.0 22.1 33.1#





#31

Cyclohexane

Concen: 0.592 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :
MSVOA_N
ClientSampled :

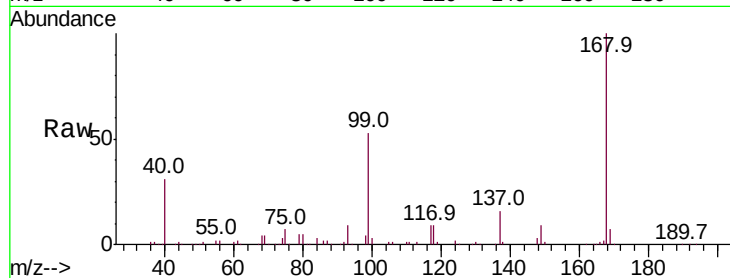
Tot Ion: 56 Resp: 10909

Ion Ratio Lower Upper

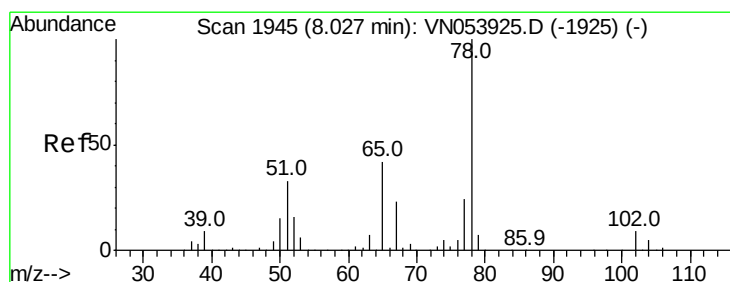
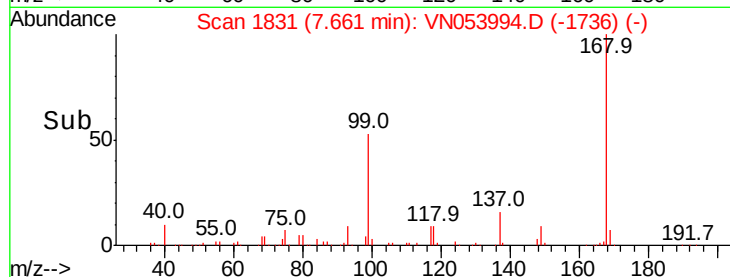
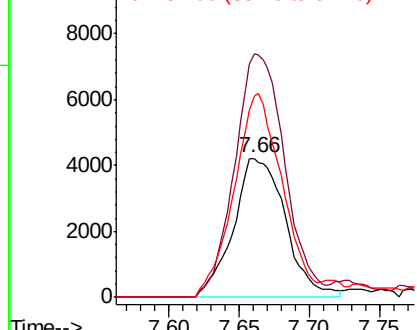
56 100

69 175.0 26.0 39.0#

84 144.6 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: 56.459 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053994.D

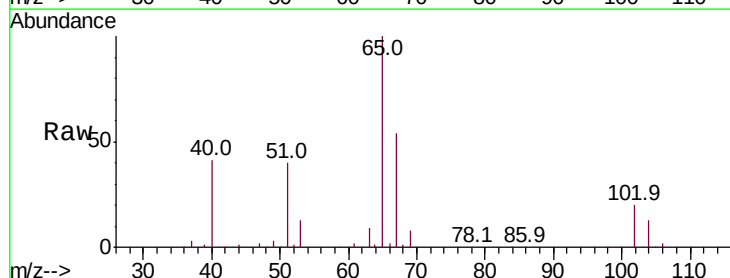
Acq: 28 Feb 2019 10:15

Tgt Ion: 65 Resp: 386464

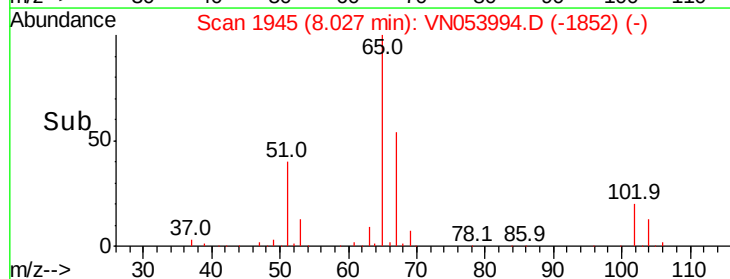
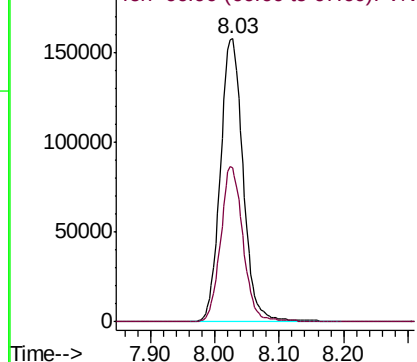
Ion Ratio Lower Upper

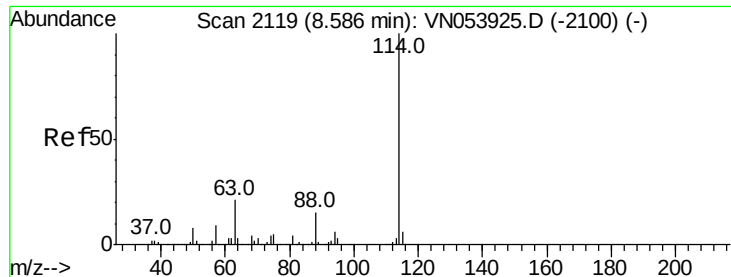
65 100

67 54.2 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: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

ClientSampleId :

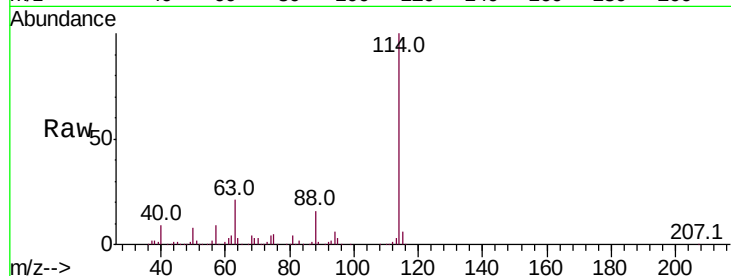
Tot Ion:114 Resp: 1052922

Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.4

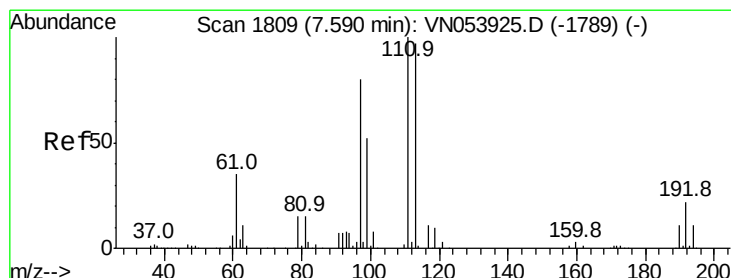
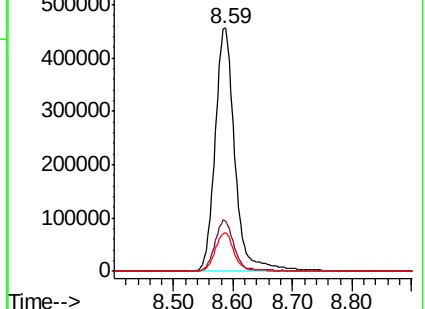
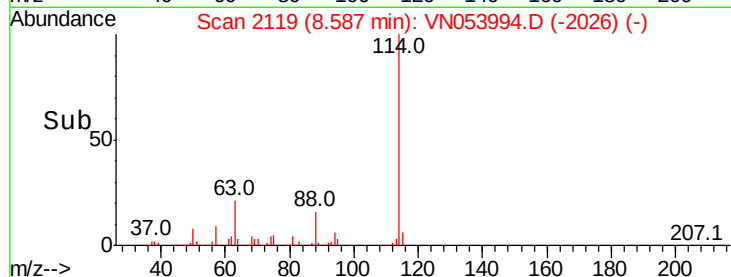
88 15.8 0.0 30.4



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: 52.202 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

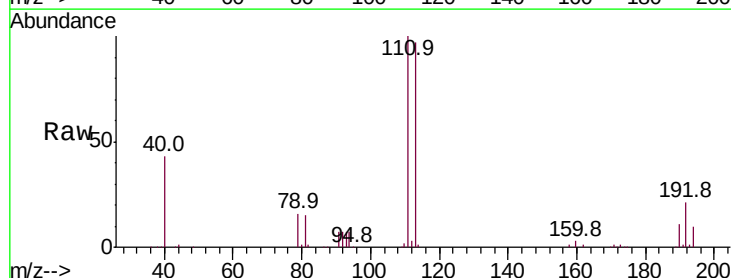
Tgt Ion:113 Resp: 355435

Ion Ratio Lower Upper

113 100

111 101.3 81.1 121.7

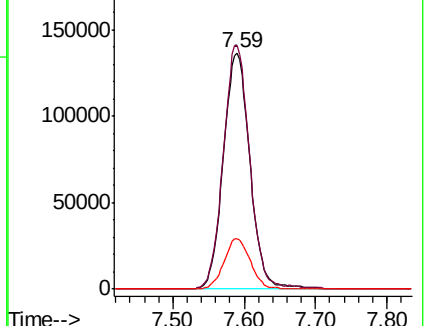
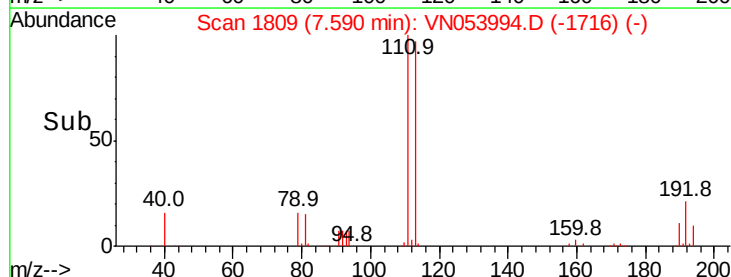
192 21.1 18.8 28.2

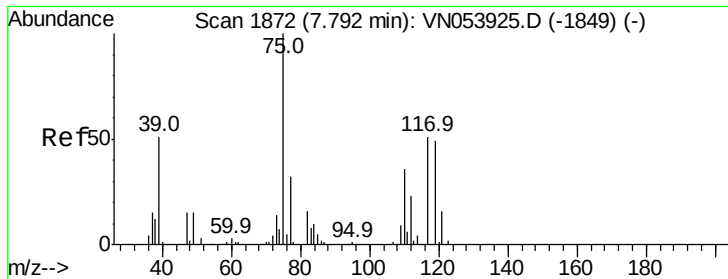


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

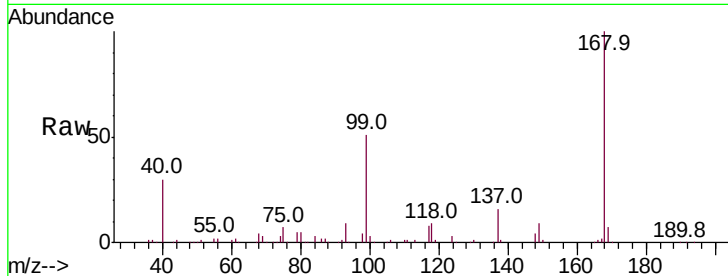




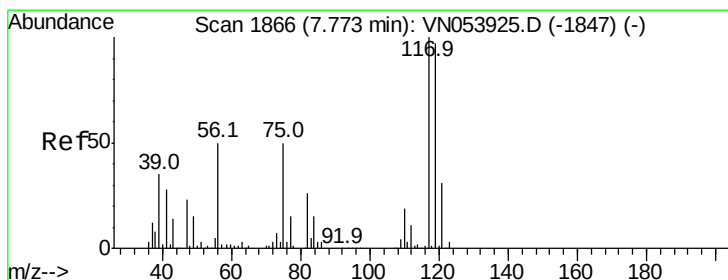
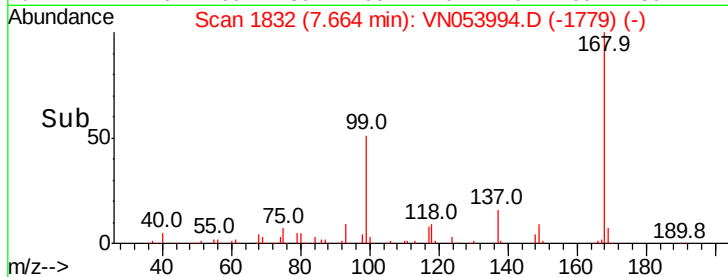
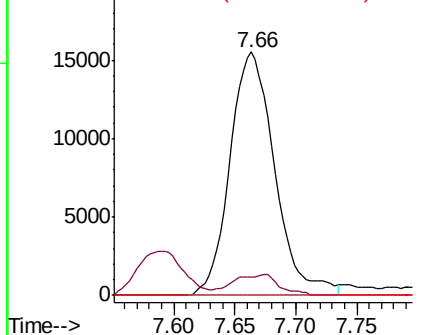
#36
 1,1-Dichloropropene
 Concen: 4.039 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053994.D
 Acq: 28 Feb 2019 10:15

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	2.3	19.0	57.0#
77	0.0	25.4	38.0#

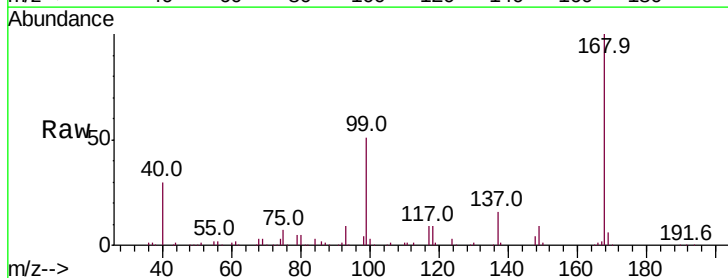


Abundance Ion 74.90 (74.60 to 75.60): VN053994.D (-1779) (-)
 Ion 109.90 (109.60 to 110.60): VN053994.D (-1779) (-)
 Ion 76.90 (76.60 to 77.60): VN053994.D (-1779) (-)

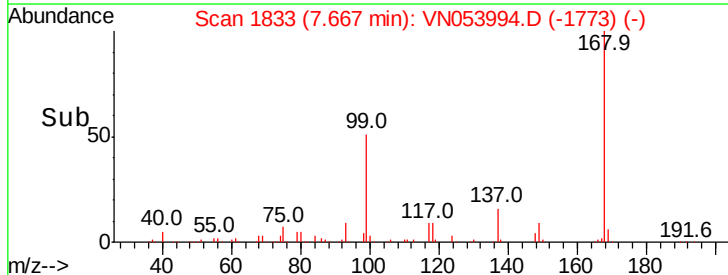
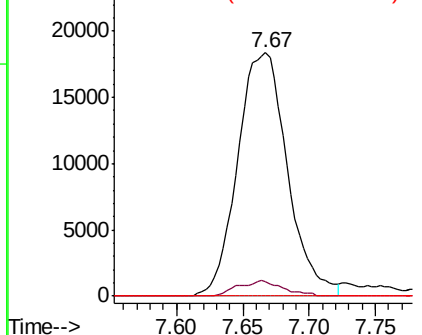


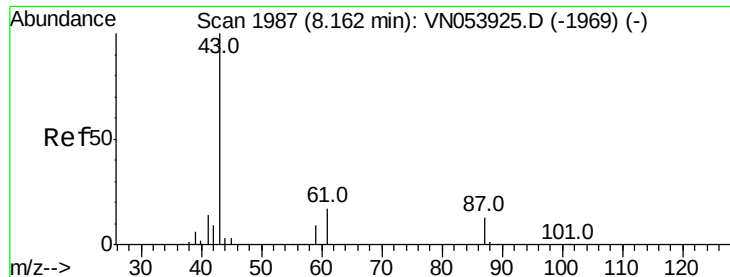
#38
 Carbon Tetrachloride
 Concen: 4.721 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053994.D
 Acq: 28 Feb 2019 10:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.2	114.2#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN053994.D (-1773) (-)
 Ion 118.80 (118.50 to 119.50): VN053994.D (-1773) (-)
 Ion 120.80 (120.50 to 121.50): VN053994.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 11.529 ug/l

RT: 8.33 min Scan# 2040

Delta R.T. 0.17 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

ClientSampleId :

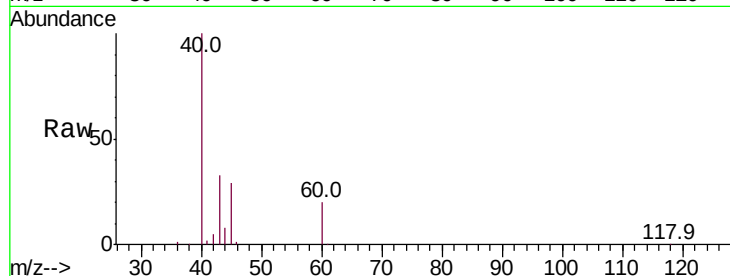
Tot Ion: 43 Resp: 136095

Ion Ratio Lower Upper

43 100

61 0.3 17.4 26.0#

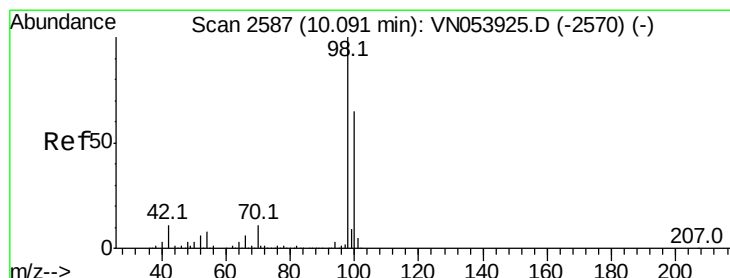
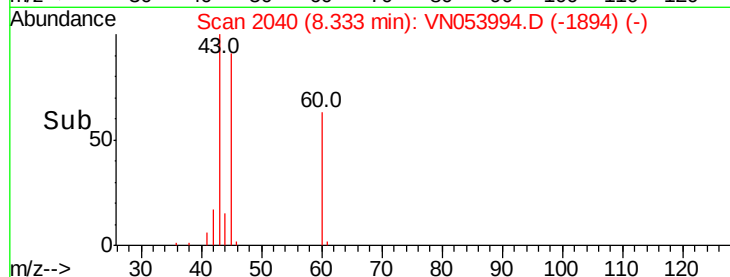
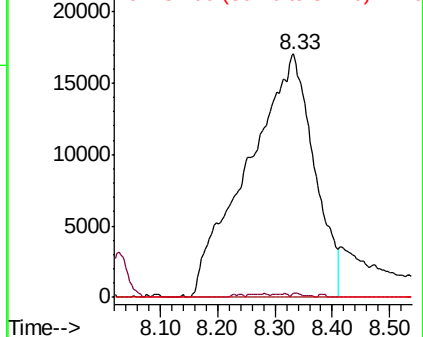
87 0.0 11.5 17.3#



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



#50

Toluene-d8

Concen: 52.167 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053994.D

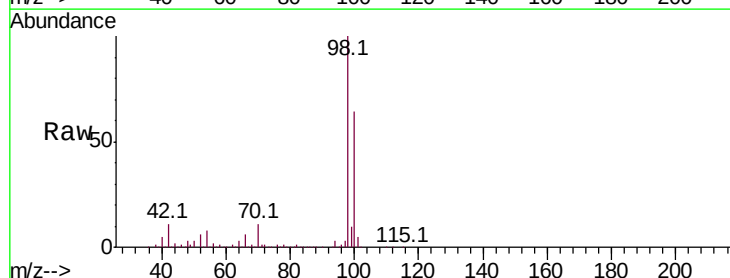
Acq: 28 Feb 2019 10:15

Tgt Ion: 98 Resp: 1322243

Ion Ratio Lower Upper

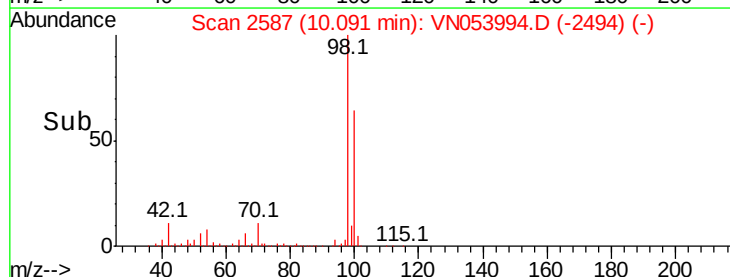
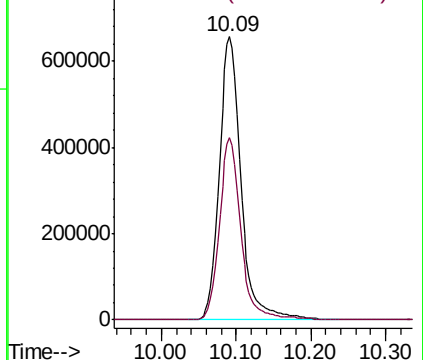
98 100

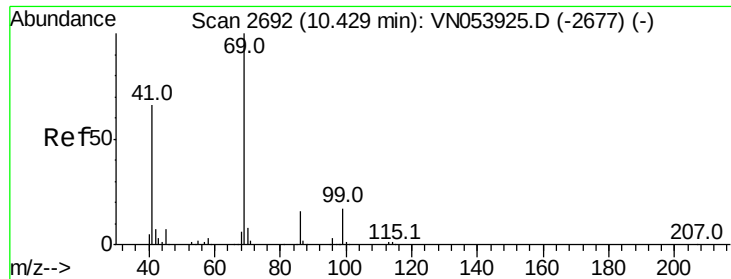
100 63.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#56

Ethyl methacrylate

Concen: 1.963 ug/l

RT: 10.44 min Scan# 2694

Delta R.T. 0.01 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

ClientSampleId :

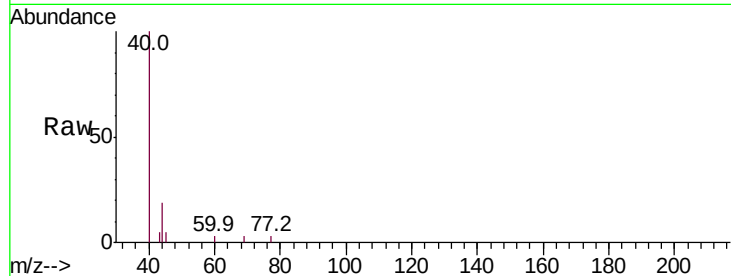
Tot Ion: 69 Resp: 72

Ion Ratio Lower Upper

69 100

41 0.0 47.5 71.3#

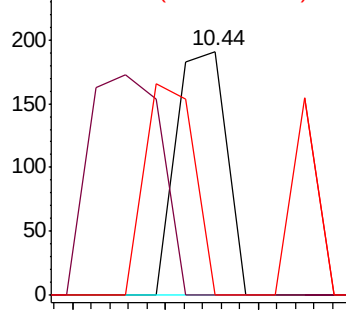
39 41.7 23.4 35.0#



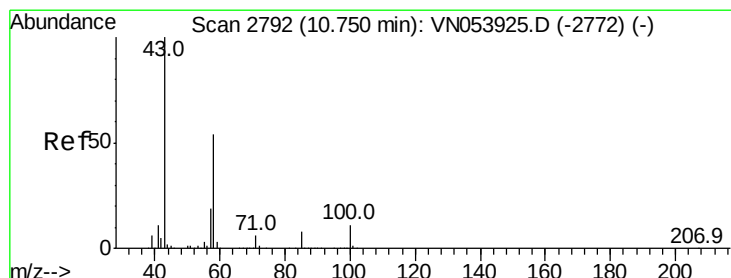
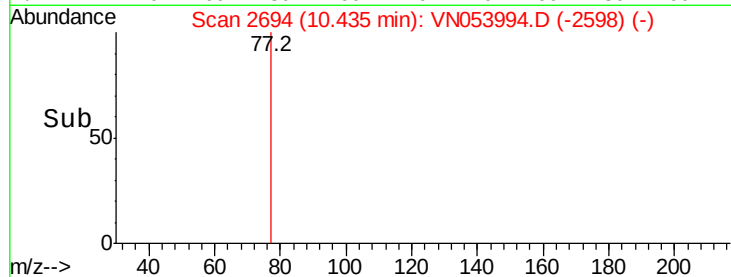
Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->



#59

2-Hexanone

Concen: 0.472 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN053994.D

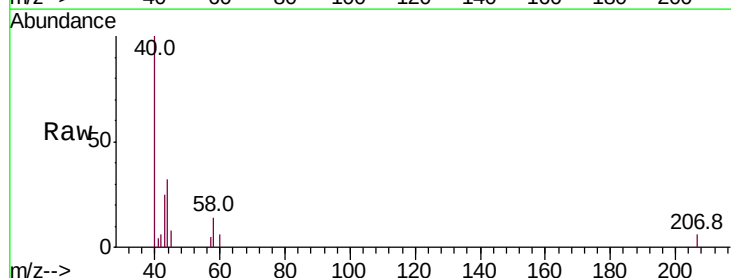
Acq: 28 Feb 2019 10:15

Tgt Ion: 43 Resp: 1863

Ion Ratio Lower Upper

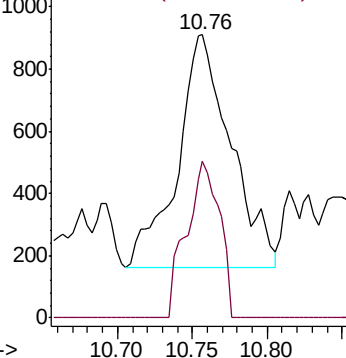
43 100

58 41.7 29.1 87.4

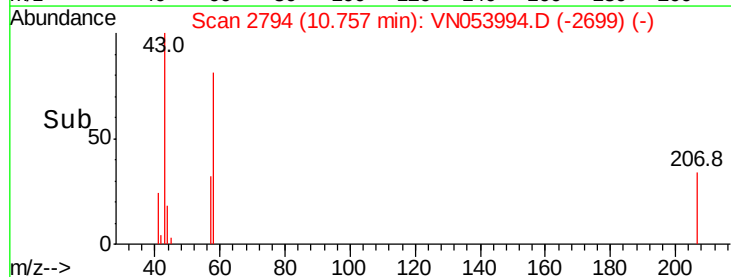


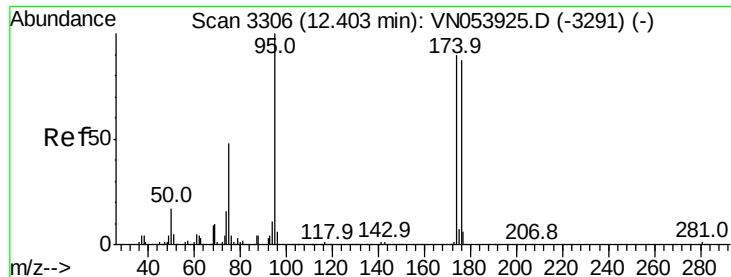
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

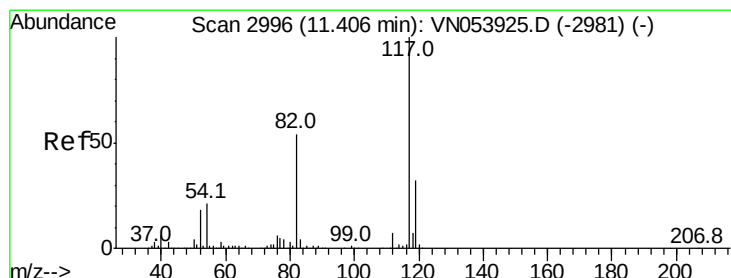
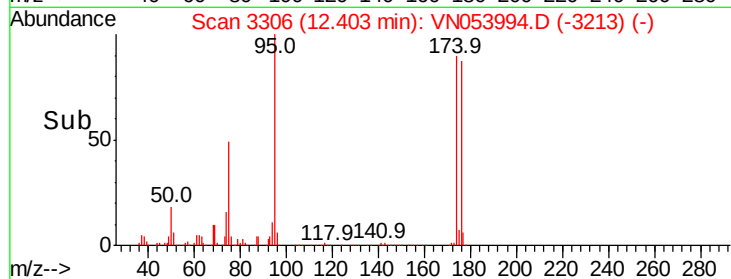
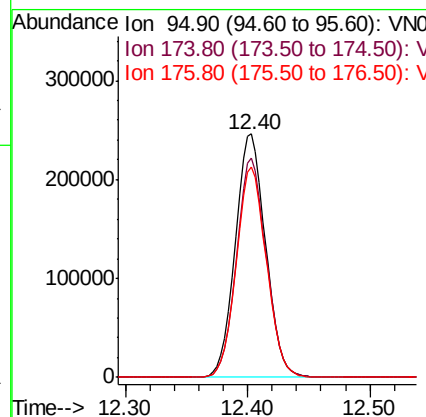
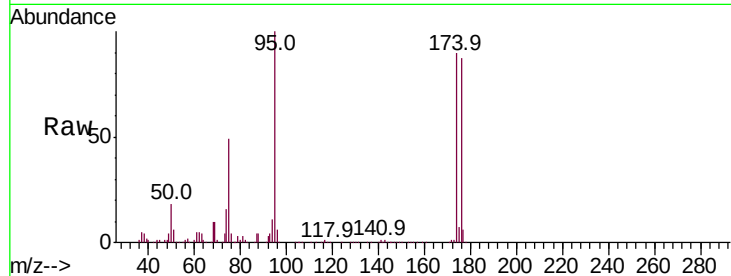




#62
4-Bromofluorobenzene
Concen: 50.210 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053994.D
Acq: 28 Feb 2019 10:15

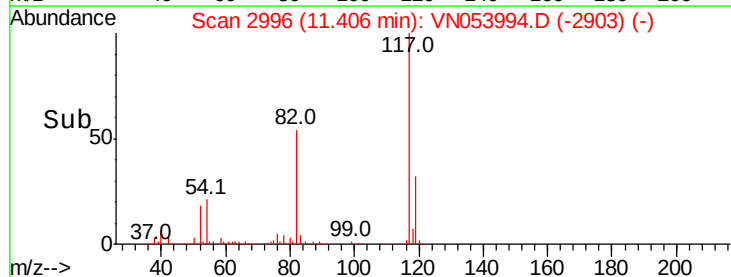
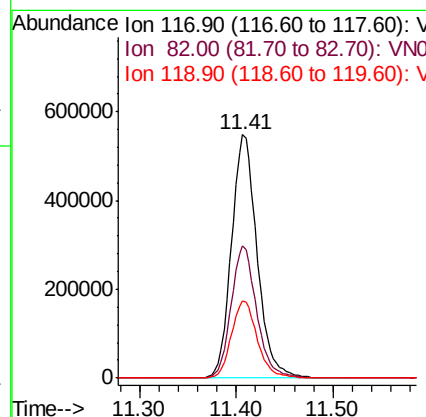
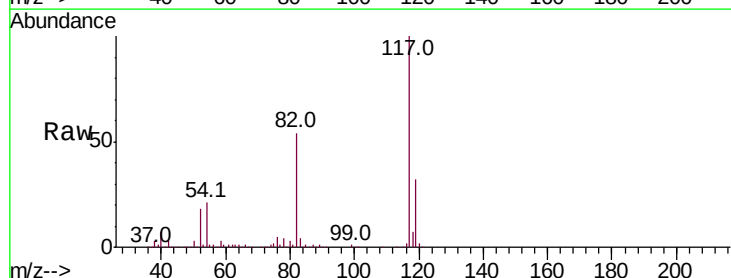
Instrument :
MSVOA_N
ClientSampleId :

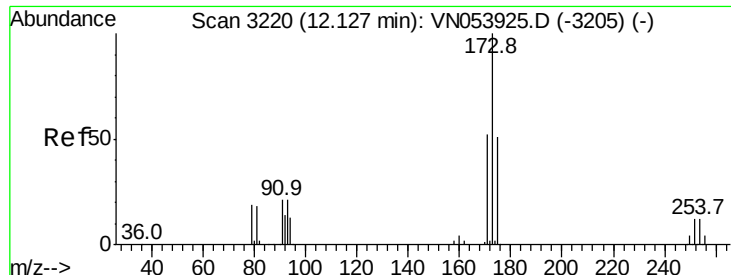
Tot Ion: 95 Resp: 424004
Ion Ratio Lower Upper
95 100
174 88.5 0.0 188.8
176 85.8 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053994.D
Acq: 28 Feb 2019 10:15

Tgt Ion: 117 Resp: 1009299
Ion Ratio Lower Upper
117 100
82 54.1 41.4 62.2
119 31.7 25.3 37.9





#71

Bromoform

Concen: 0.641 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

ClientSampleId :

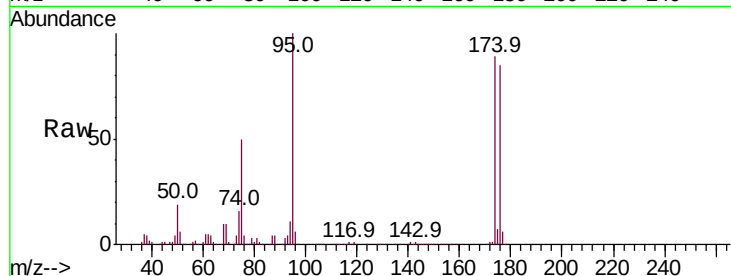
Tot Ion:173 Resp: 3423

Ion Ratio Lower Upper

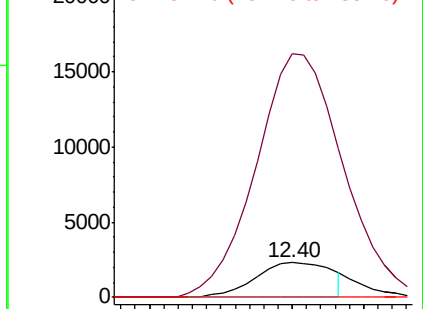
173 100

175 683.9 24.3 72.8#

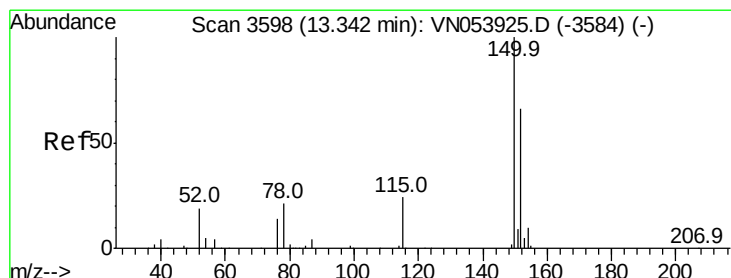
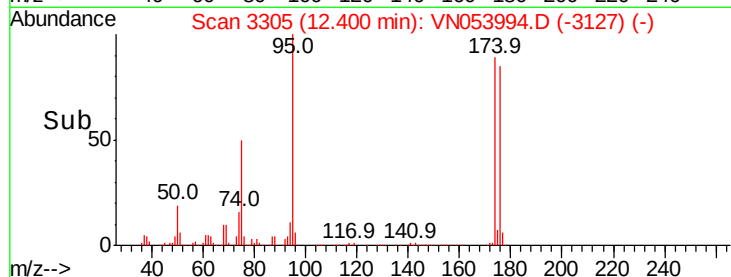
254 0.0 0.2 0.2#



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



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

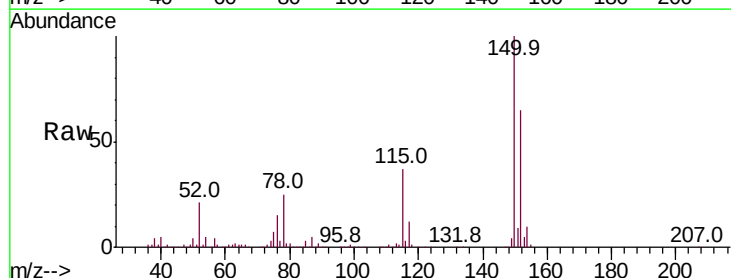
Tgt Ion:152 Resp: 360157

Ion Ratio Lower Upper

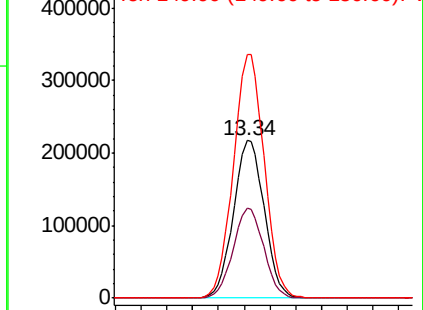
152 100

115 56.6 27.2 81.6

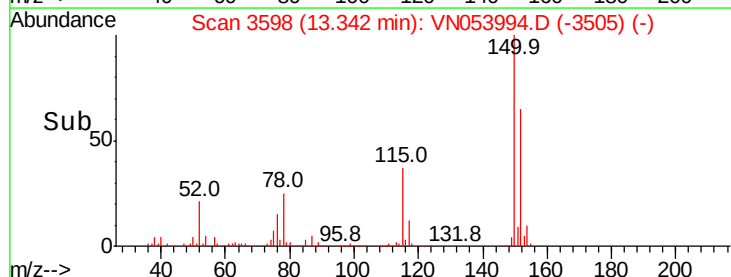
150 155.1 0.0 348.2

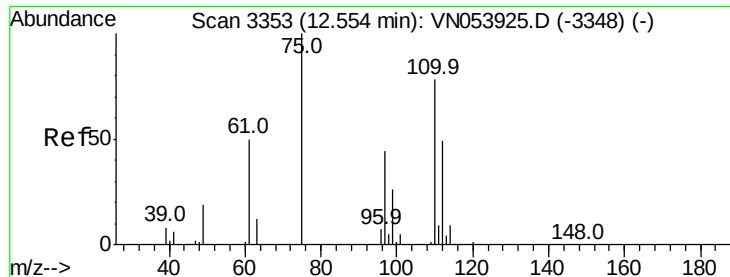


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#76

1,2,3-Trichloropropane

Concen: 36.210 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

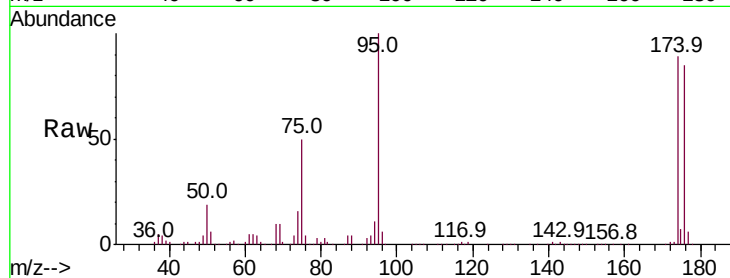
ClientSampled :

Tot Ion: 75 Resp: 209206

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

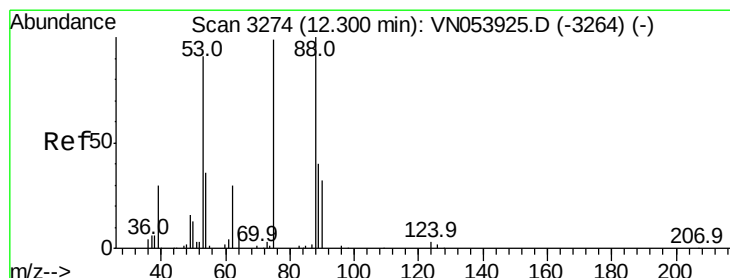
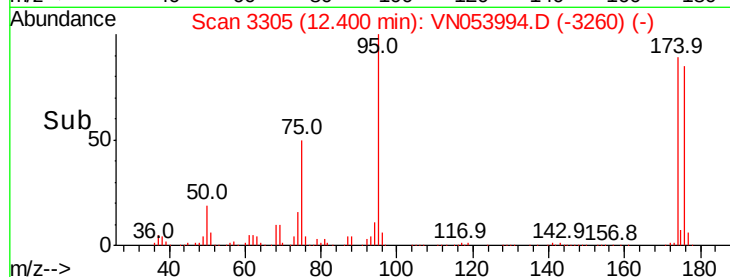
12.40

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 114.447 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

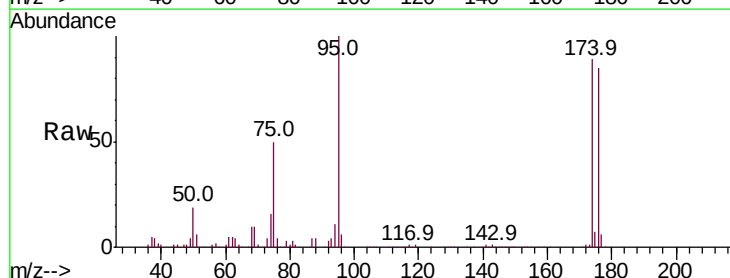
Tgt Ion: 75 Resp: 209206

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

89 0.0 35.3 52.9#



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

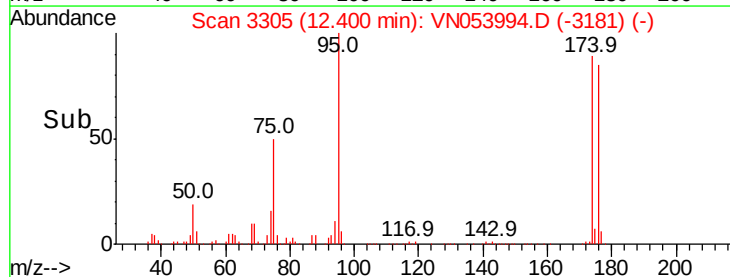
150000

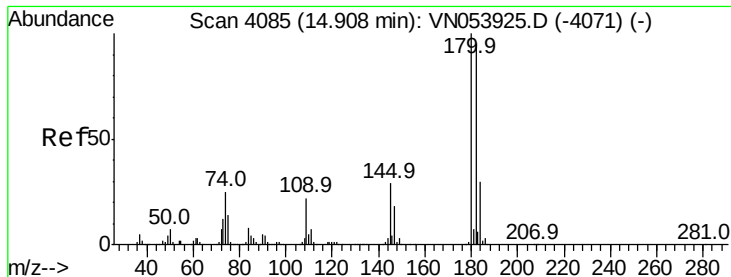
100000

50000

0

Time-->





#93

1,2,4-Trichlorobenzene

Concen: 2.468 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

ClientSampled :

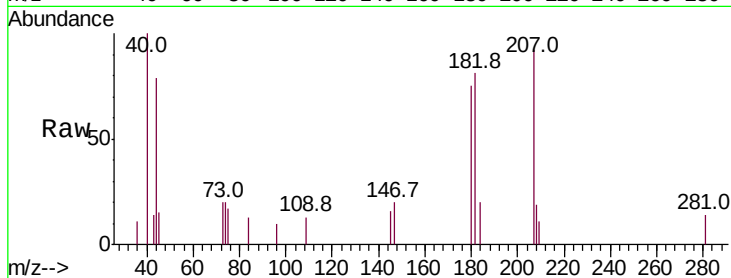
Tot Ion:180 Resp: 1700

Ion Ratio Lower Upper

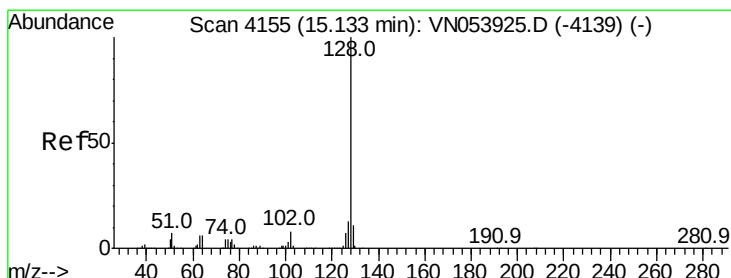
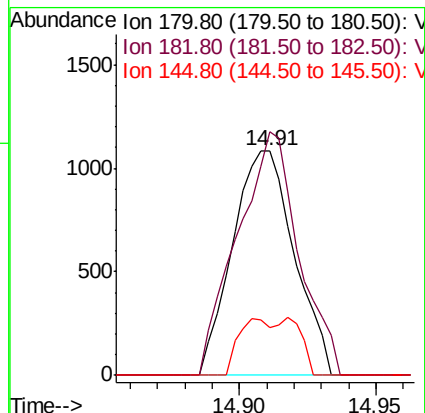
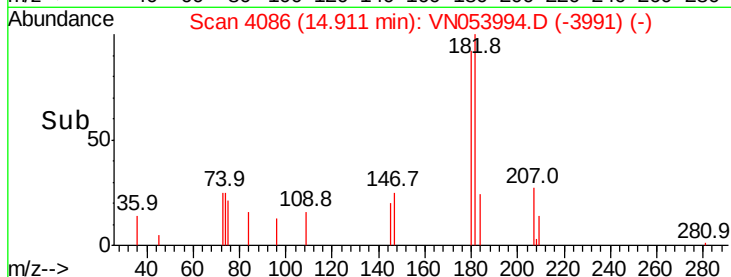
180 100

182 107.6 48.6 145.9

145 13.3 13.8 41.3#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 3.526 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

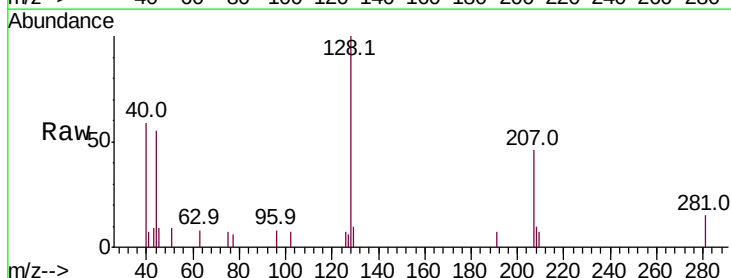
Tgt Ion:128 Resp: 4788

Ion Ratio Lower Upper

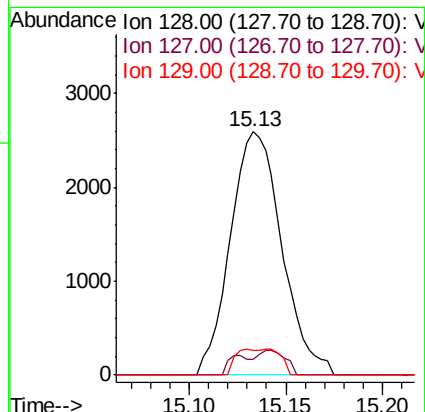
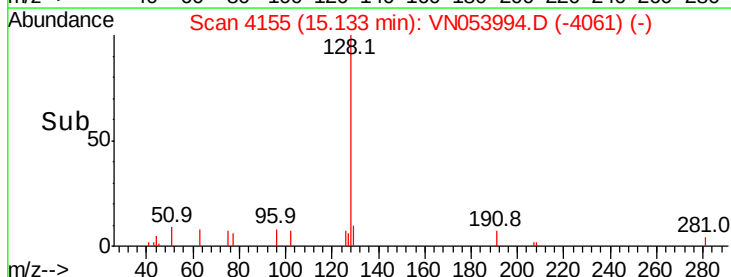
128 100

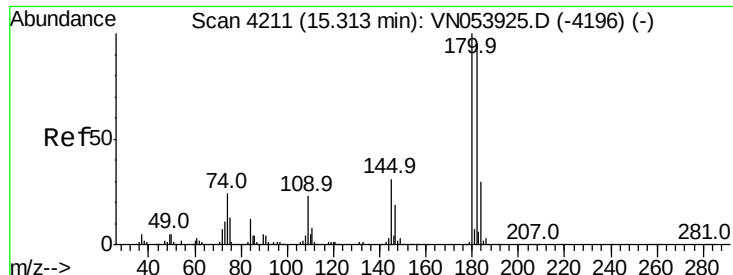
127 3.6 10.2 15.2#

129 5.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 1.967 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053994.D

Acq: 28 Feb 2019 10:15

Instrument :

MSVOA_N

ClientSampleId :

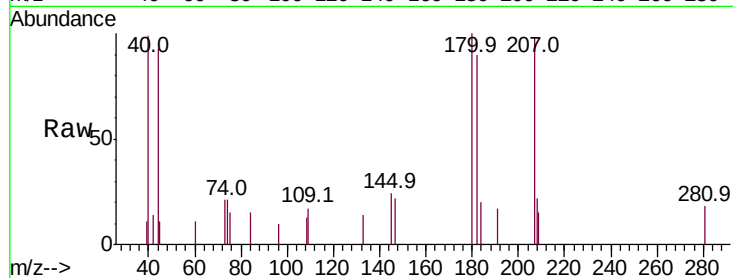
Tot Ion:180 Resp: 2680

Ion Ratio Lower Upper

180 100

182 82.4 47.3 141.8

145 27.5 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

