

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054873.D
 Acq On : 1 Apr 2019 14:37
 Operator : JC/SP
 Sample : K2178-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-17

Quant Time: Apr 02 04:22:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	531538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	876683	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	749880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	263594	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	356541	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
35) Dibromofluoromethane	7.59	113	264316	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	
50) Toluene-d8	10.09	98	1058575	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	12.40	95	325333	45.02	ug/l	0.00
Spiked Amount			Recovery	=	90.04%	

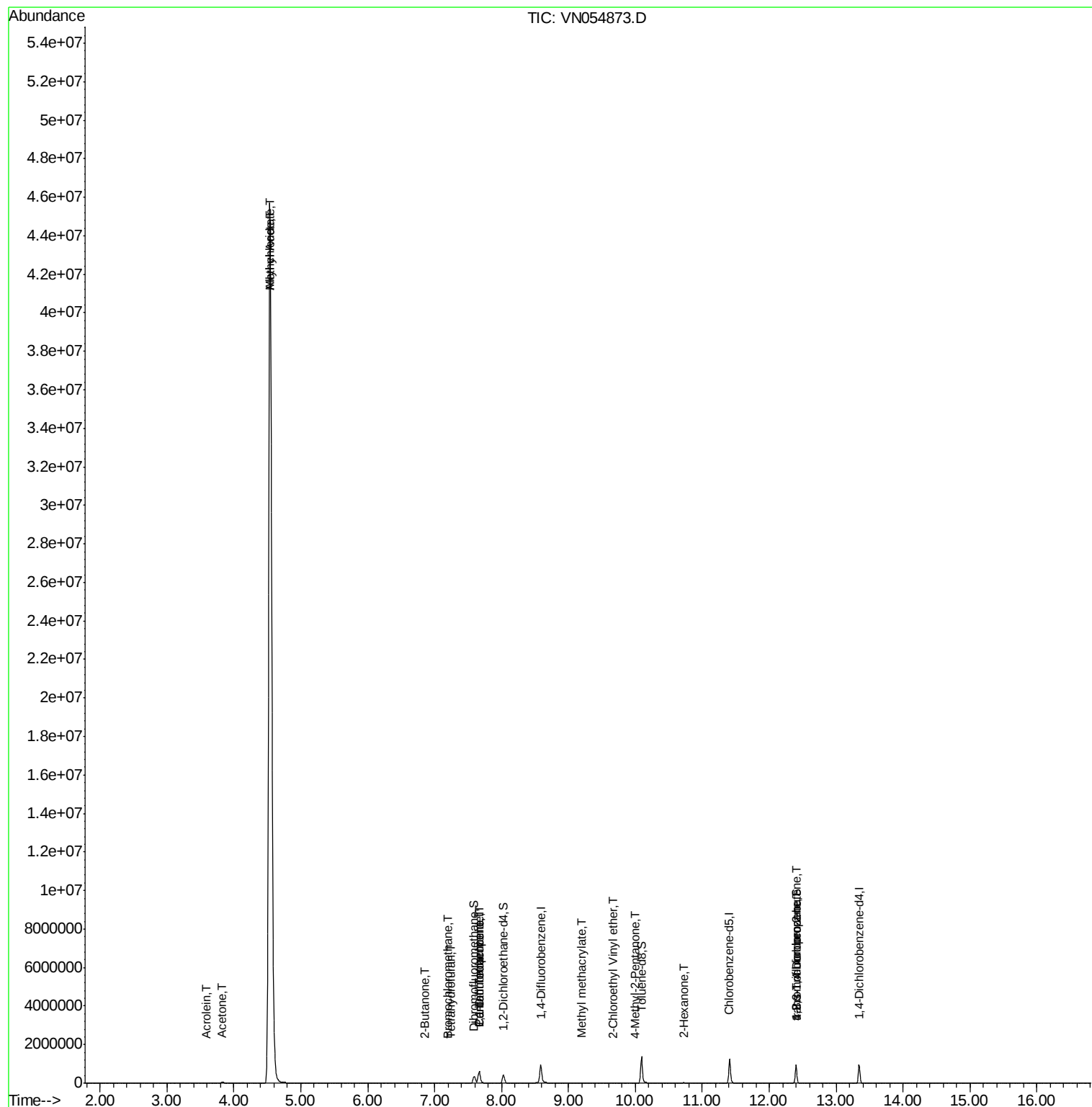
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.59	94	118	Below Cal	#	80
13) Acrolein	3.60	56	94	0.282	ug/l #	1
14) Allyl chloride	4.54	41	1609308	156.373	ug/l #	22
16) Acetone	3.82	43	78457	45.917	ug/l #	83
18) Methyl Acetate	4.54	43	173892	38.868	ug/l #	81
25) 2-Butanone	6.85	43	807	0.320	ug/l	96
28) Bromochloromethane	7.20	49	1776	0.327	ug/l #	29
29) Tetrahydrofuran	7.23	42	1365	0.778	ug/l #	32
31) Cyclohexane	7.66	56	11702	Below Cal	#	22
36) 1,1-Dichloropropene	7.66	75	40316	4.935	ug/l #	48
38) Carbon Tetrachloride	7.66	117	50752	6.397	ug/l #	15
48) Methyl methacrylate	9.19	41	9030	1.711	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	4197	0.767	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.65	63	31	10.365	ug/l #	44
59) 2-Hexanone	10.72	43	20240	5.777	ug/l #	23
75) 1,1,2,2-Tetrachloroethane	12.40	83	327	Below Cal	#	7
76) 1,2,3-Trichloropropane	12.40	75	170597	37.254	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170597	144.910	ug/l #	11
83) tert-Butylbenzene	12.73	119	600	Below Cal	#	37

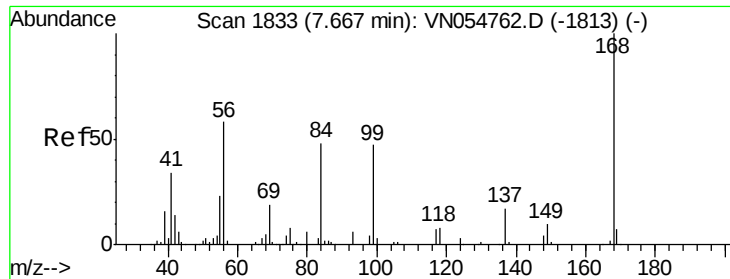
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 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: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

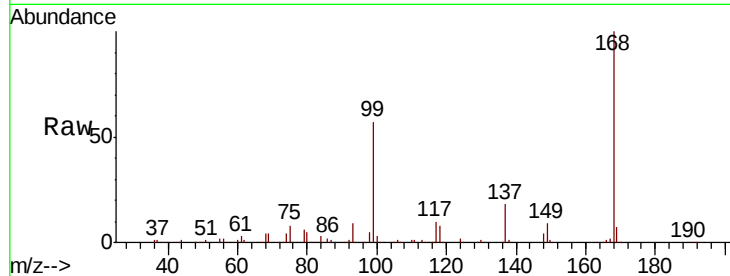
COMP-17

Tot Ion:168 Resp: 531538

Ion Ratio Lower Upper

168 100

99 56.6 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054873.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054873.D (-1740) (-)

7.67

250000

200000

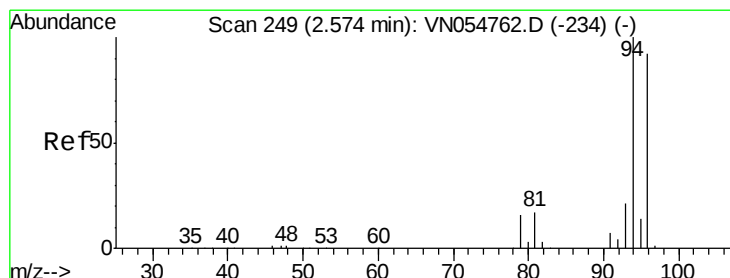
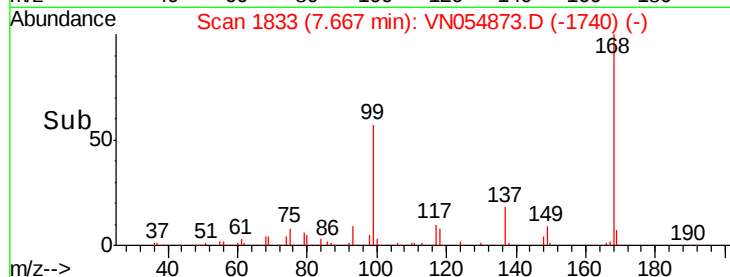
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.59 min Scan# 253

Delta R.T. 0.01 min

Lab File: VN054873.D

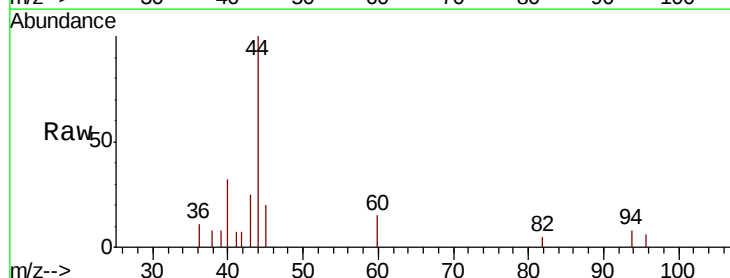
Acq: 1 Apr 2019 14:37

Tgt Ion: 94 Resp: 118

Ion Ratio Lower Upper

94 100

96 76.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054873.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054873.D (-156) (-)

2.59

250

200

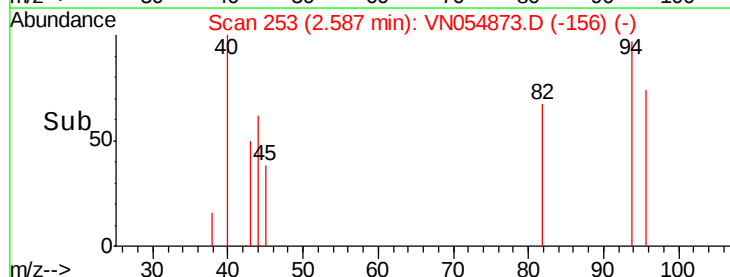
150

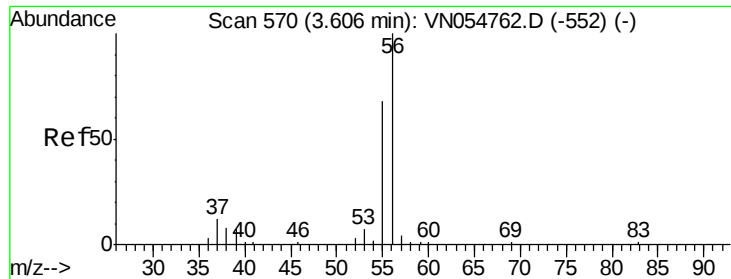
100

50

0

Time-->





#13

Acrolein

Concen: 0.282 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

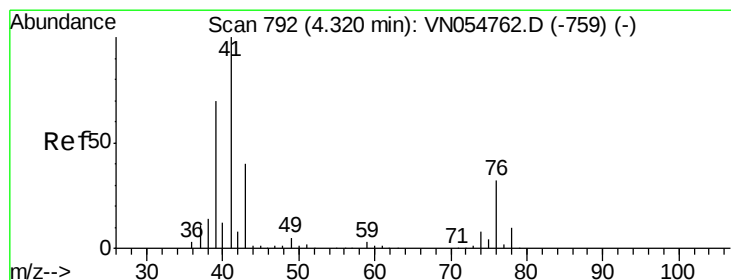
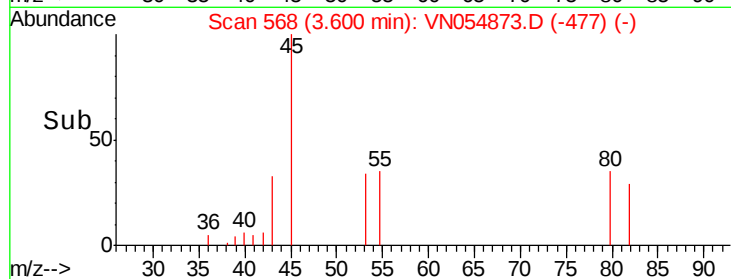
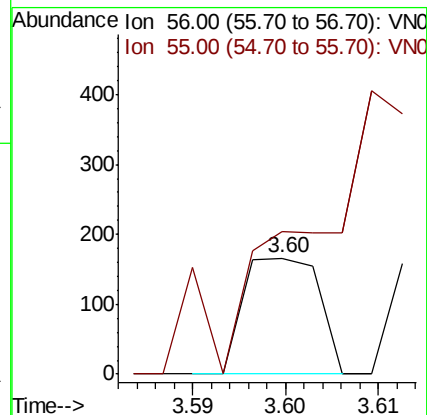
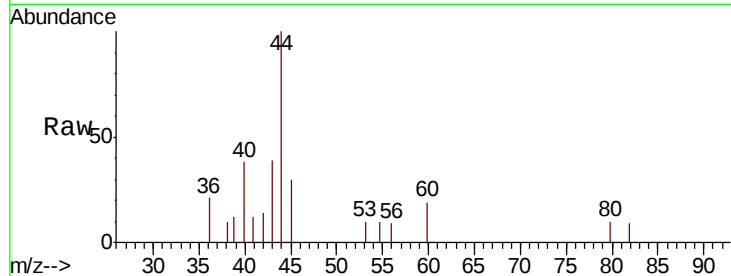
COMP-17

Tot Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 388.3 56.7 85.1#



#14

Allyl chloride

Concen: 156.373 ug/l

RT: 4.54 min Scan# 861

Delta R.T. 0.22 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

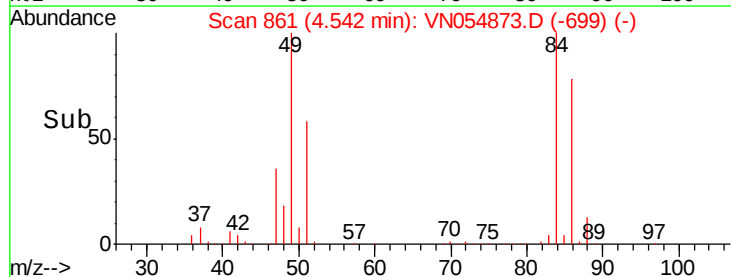
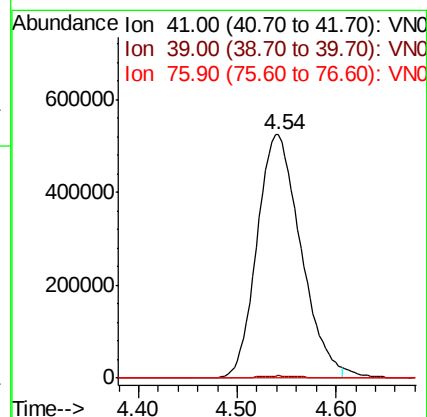
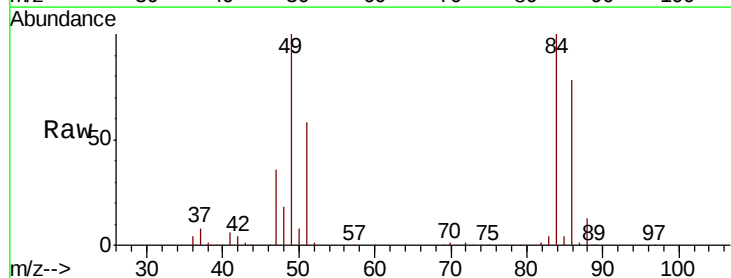
Tgt Ion: 41 Resp: 1609308

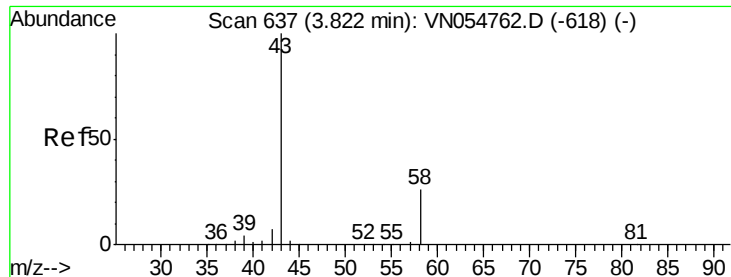
Ion Ratio Lower Upper

41 100

39 0.9 58.2 87.4#

76 0.0 31.7 47.5#





#16

Acetone

Concen: 45.917 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

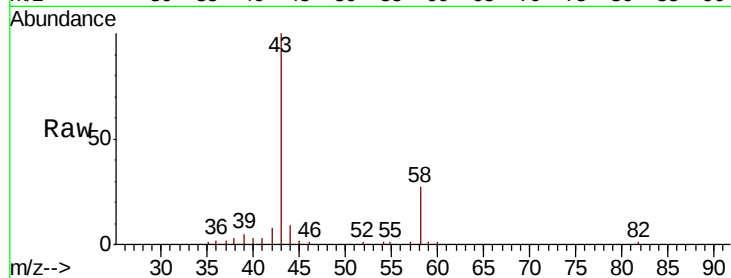
COMP-17

Tot Ion: 43 Resp: 78457

Ion Ratio Lower Upper

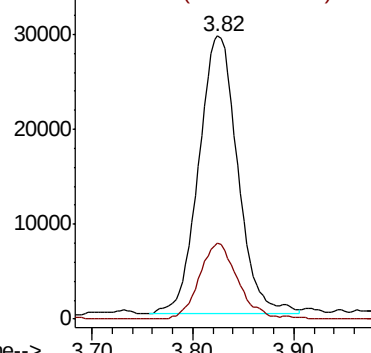
43 100

58 27.3 29.9 44.9#

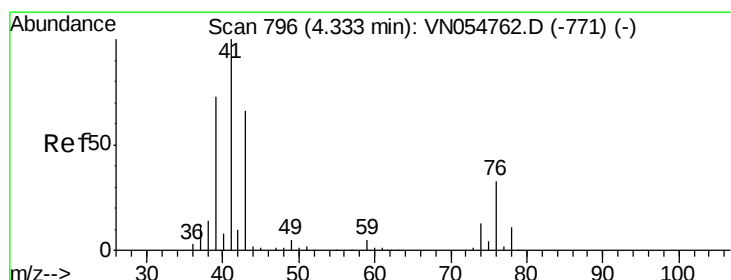
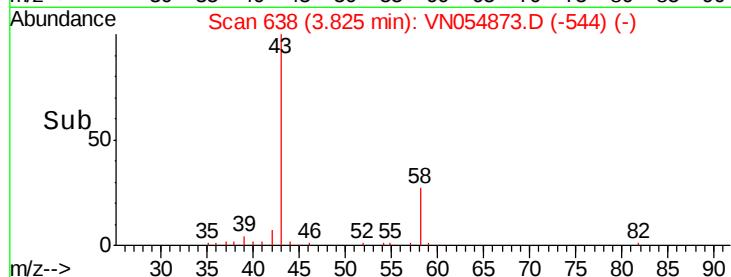


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#18

Methyl Acetate

Concen: 38.868 ug/l

RT: 4.54 min Scan# 860

Delta R.T. 0.21 min

Lab File: VN054873.D

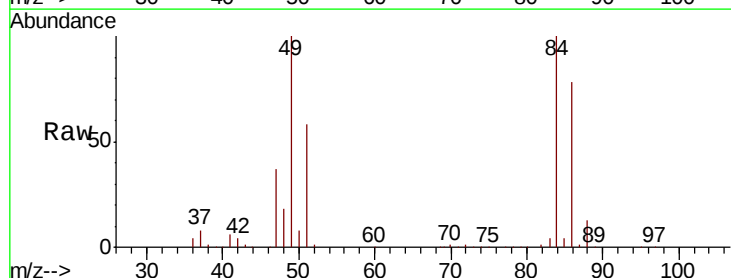
Acq: 1 Apr 2019 14:37

Tgt Ion: 43 Resp: 173892

Ion Ratio Lower Upper

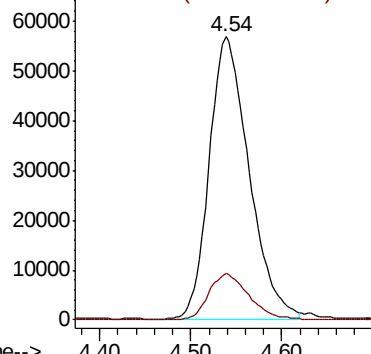
43 100

74 16.3 20.8 31.2#

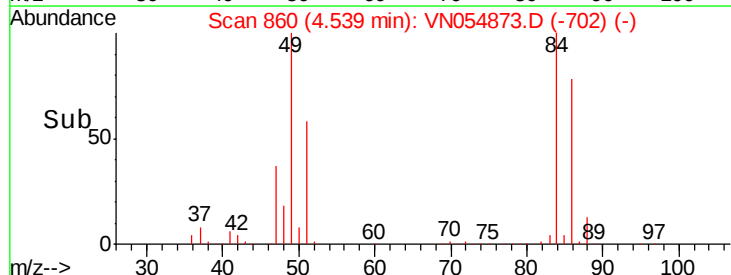


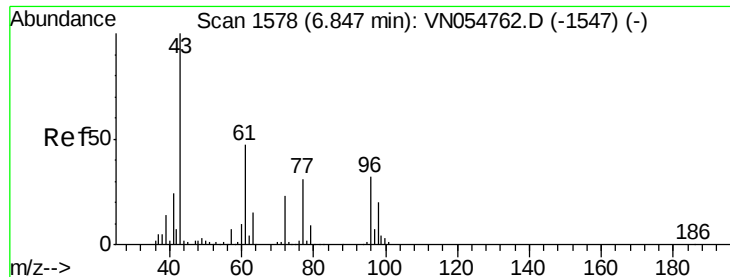
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time-->





#25

2-Butanone

Concen: 0.320 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

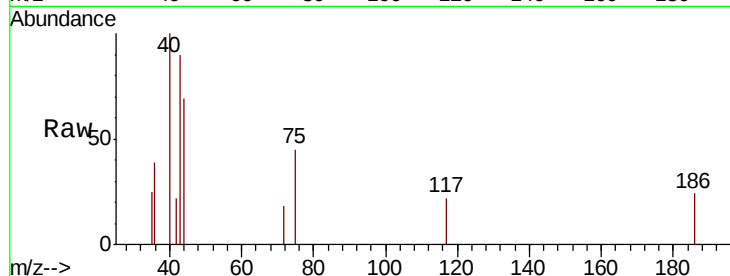
COMP-17

Tot Ion: 43 Resp: 807

Ion Ratio Lower Upper

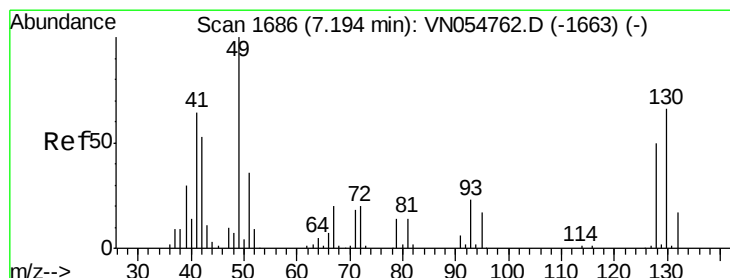
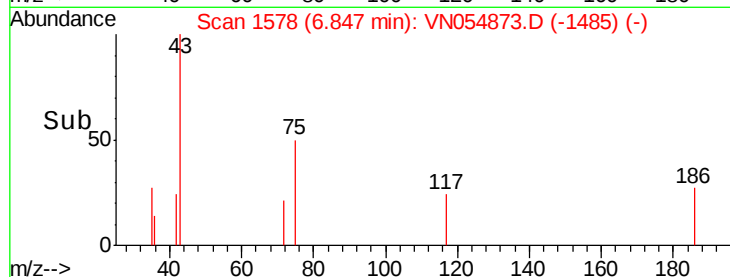
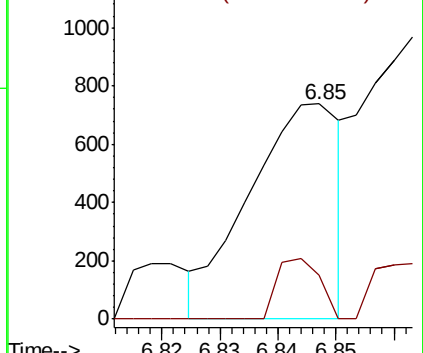
43 100

72 26.6 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#28

Bromochloromethane

Concen: 0.327 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

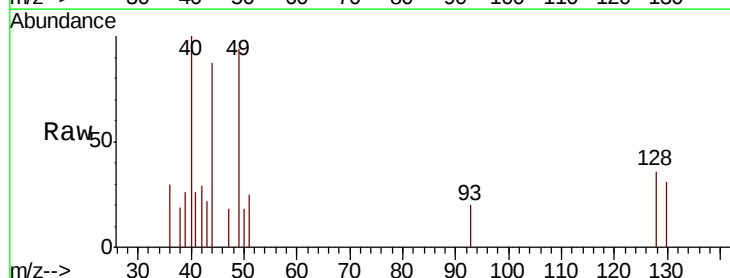
Tgt Ion: 49 Resp: 1776

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

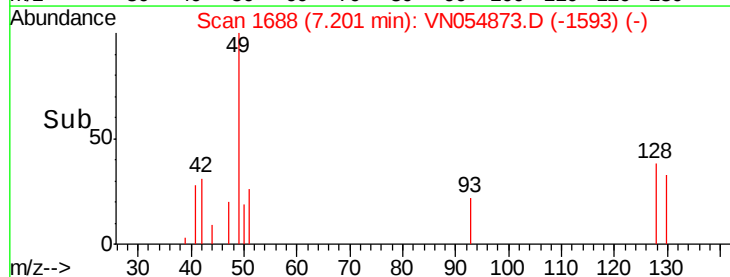
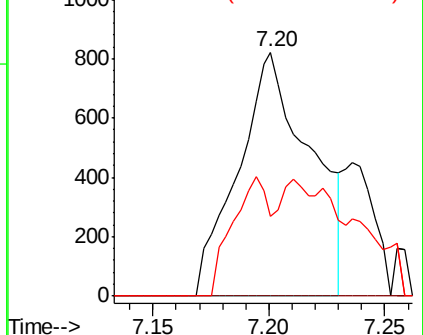
130 24.8 76.7 115.1#

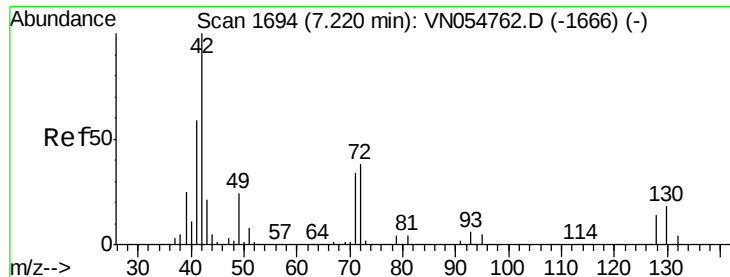


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.778 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMP-17

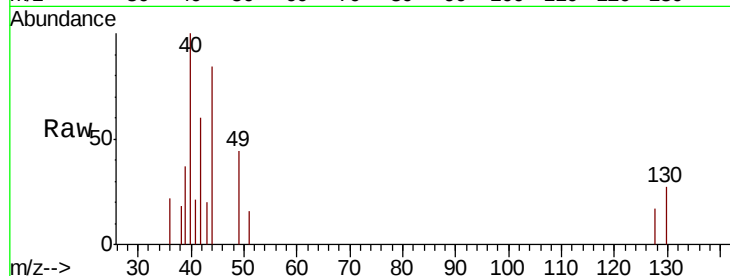
Tot Ion: 42 Resp: 1365

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

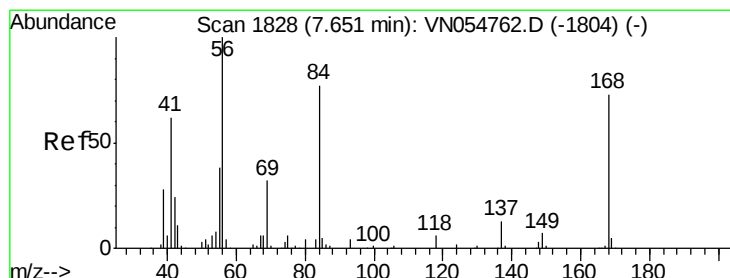
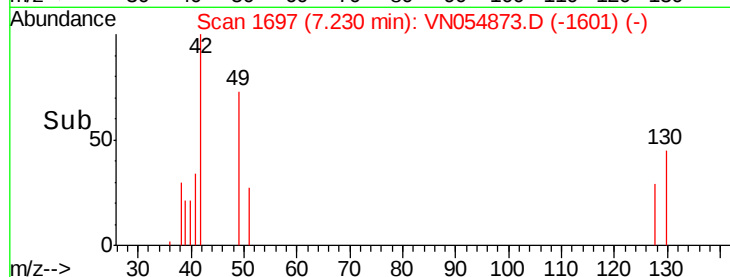
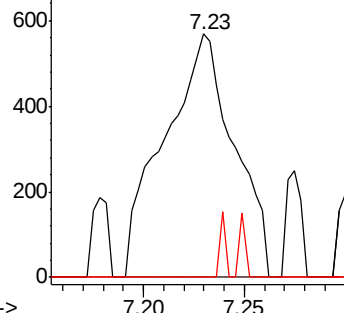
71 2.2 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

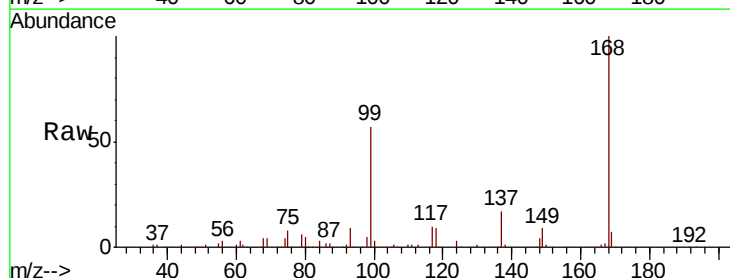
Tgt Ion: 56 Resp: 11702

Ion Ratio Lower Upper

56 100

69 147.8 27.8 41.6#

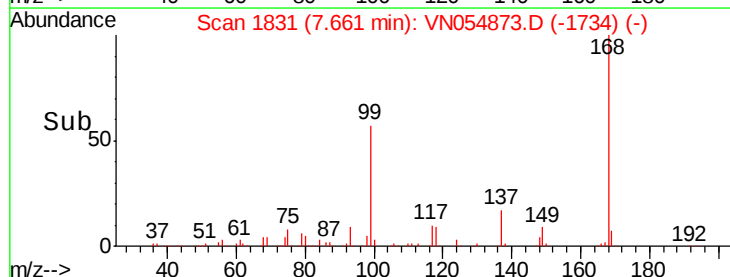
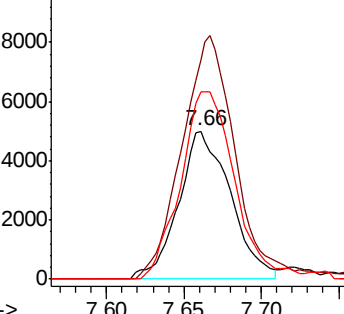
84 126.6 74.6 111.8#

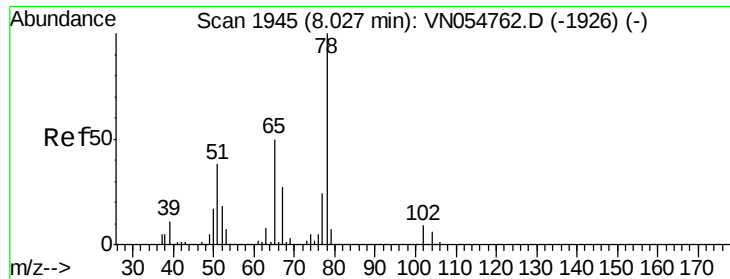


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

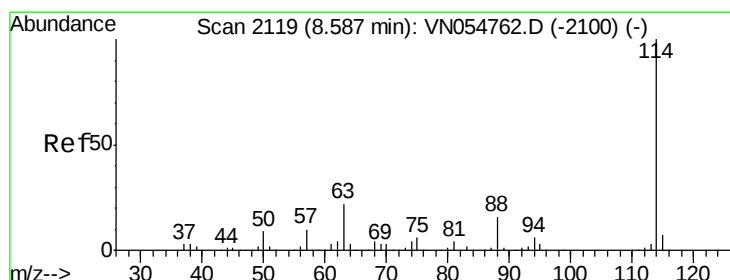
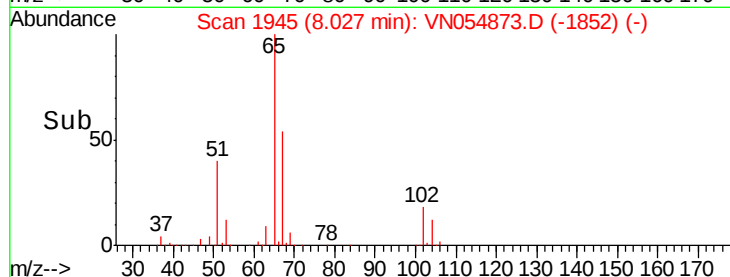
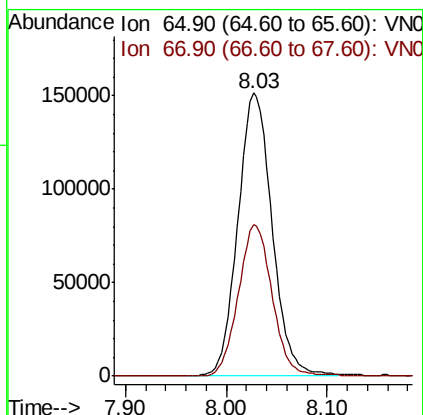
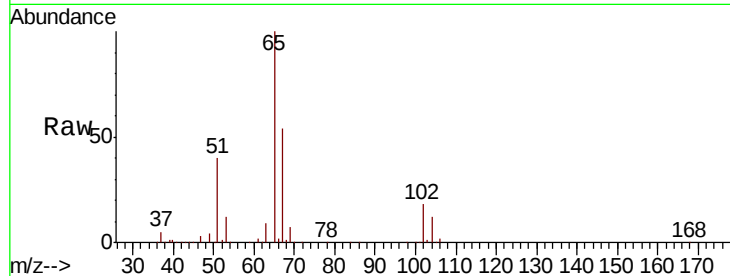




#33
 1,2-Dichloroethane-d4
 Concen: 49.760 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054873.D
 Acq: 1 Apr 2019 14:37

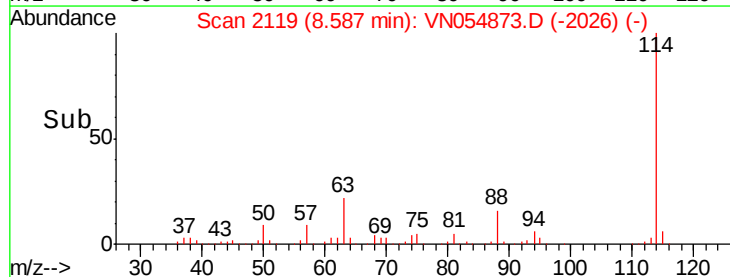
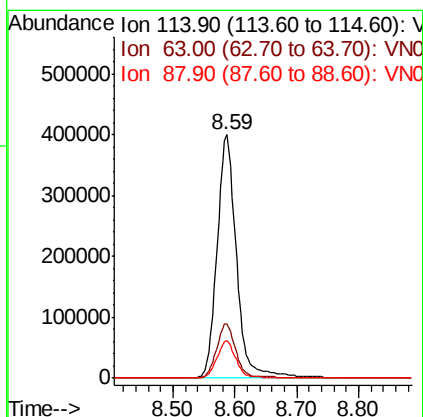
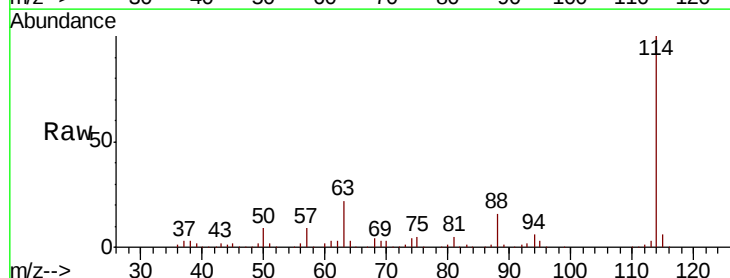
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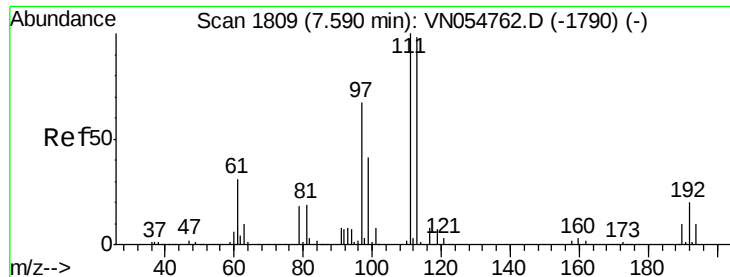
Tot Ion: 65 Resp: 356541
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054873.D
 Acq: 1 Apr 2019 14:37

Tgt Ion: 114 Resp: 876683
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.5 0.0 30.2

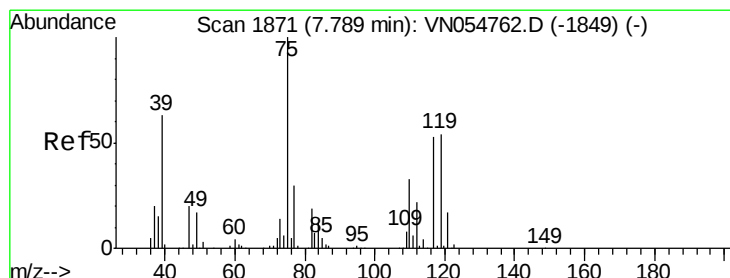
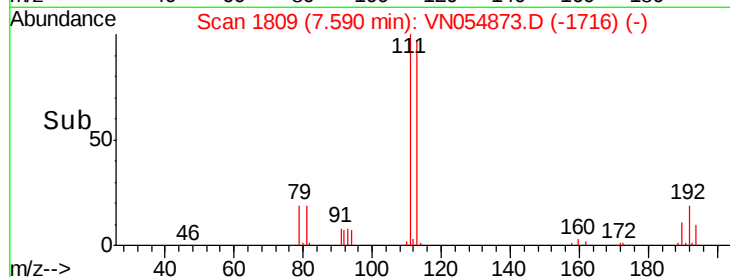
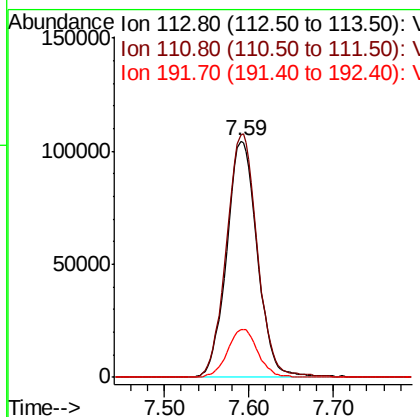
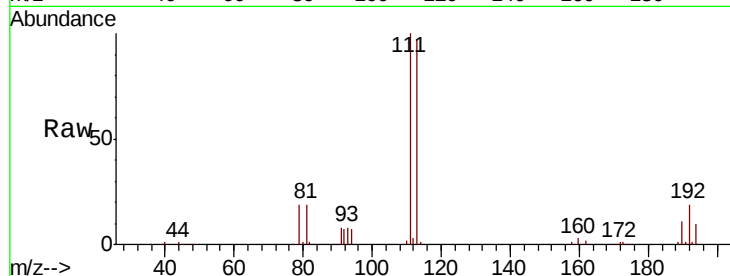




#35
 Dibromofluoromethane
 Concen: 45.223 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054873.D
 Acq: 1 Apr 2019 14:37

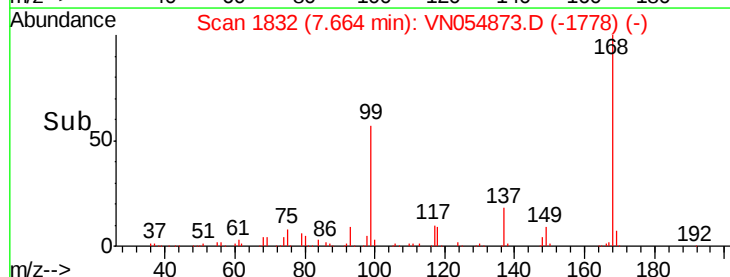
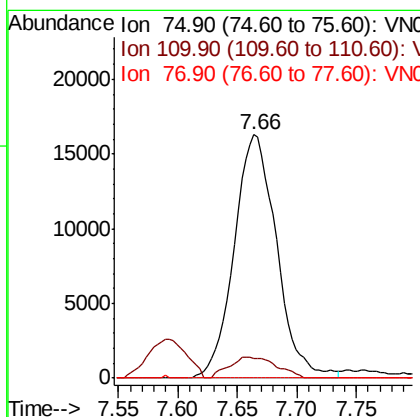
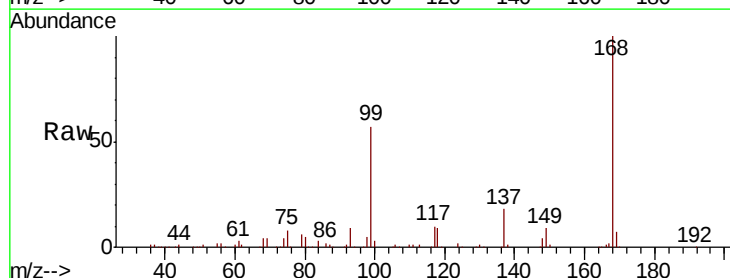
Instrument :
 MSVOA_N
 ClientSampled :
 COMP-17

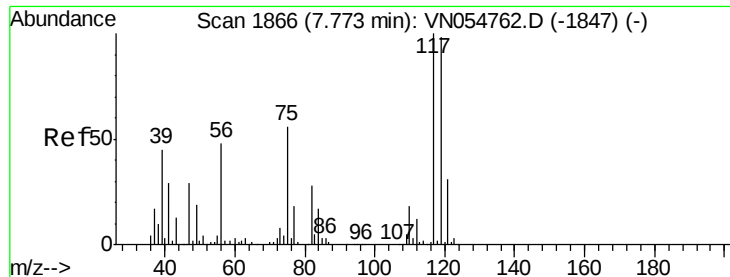
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.2	123.4
192	20.3	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.935 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054873.D
 Acq: 1 Apr 2019 14:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.397 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMP-17

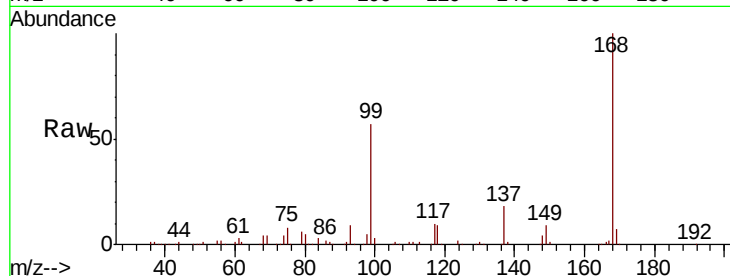
Tot Ion:117 Resp: 50752

Ion Ratio Lower Upper

117 100

119 3.9 76.3 114.5#

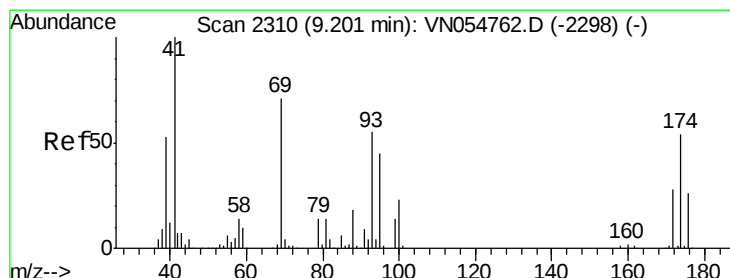
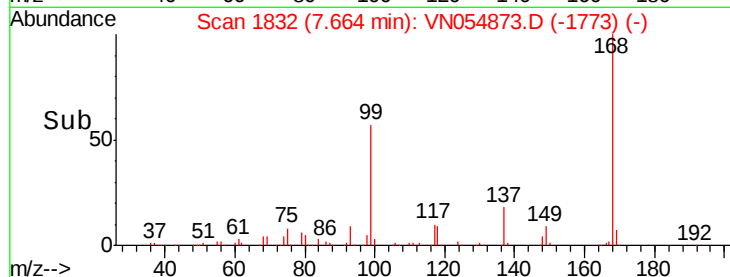
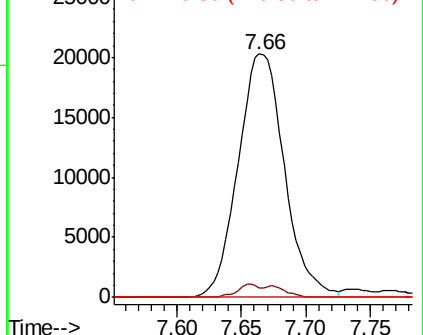
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 1.711 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

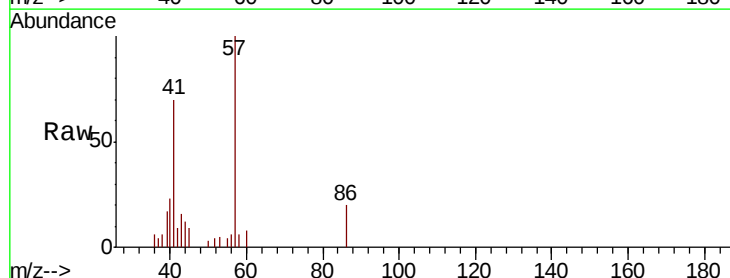
Tgt Ion: 41 Resp: 9030

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

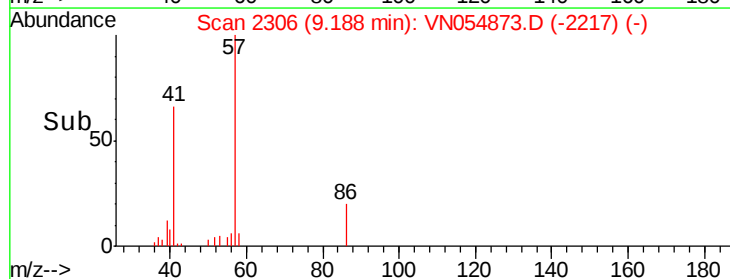
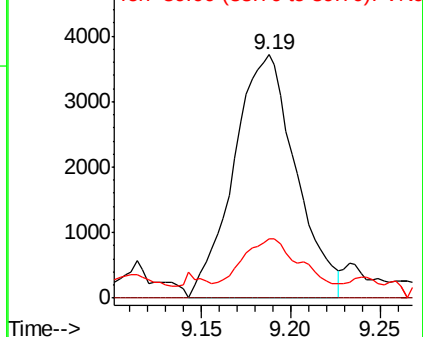
39 16.0 47.5 71.3#

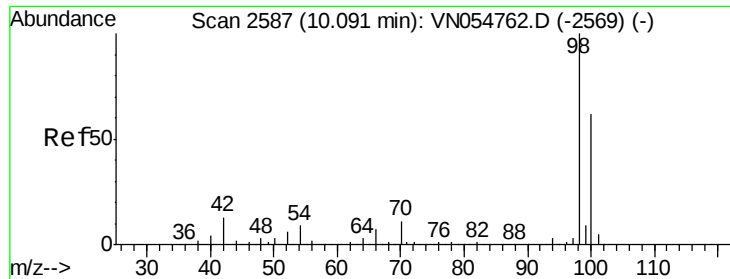


Abundance Ion 41.00 (40.70 to 41.70): V

Ion 69.00 (68.70 to 69.70): V

Ion 39.00 (38.70 to 39.70): V





#50

Toluene-d8

Concen: 48.716 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

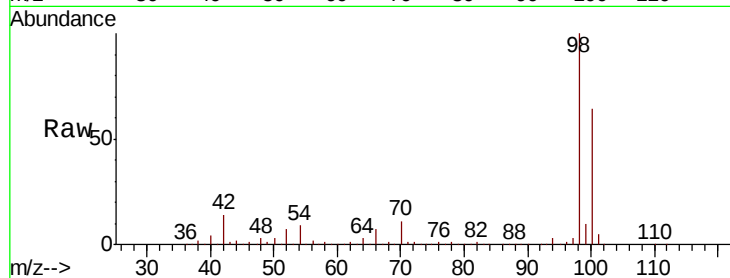
COMP-17

Tot Ion: 98 Resp: 1058575

Ion Ratio Lower Upper

98 100

100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

600000

500000

400000

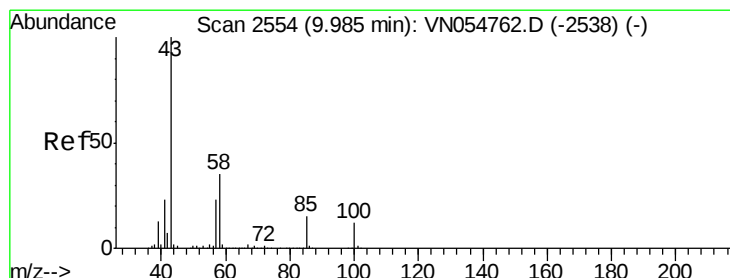
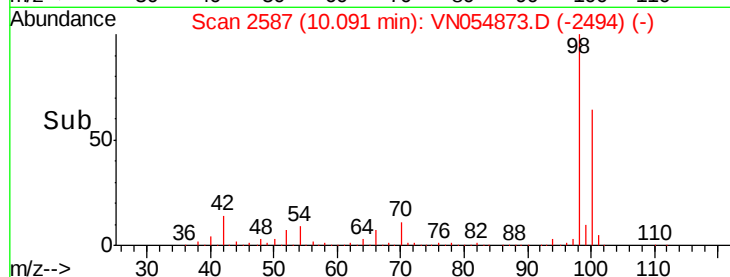
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.767 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054873.D

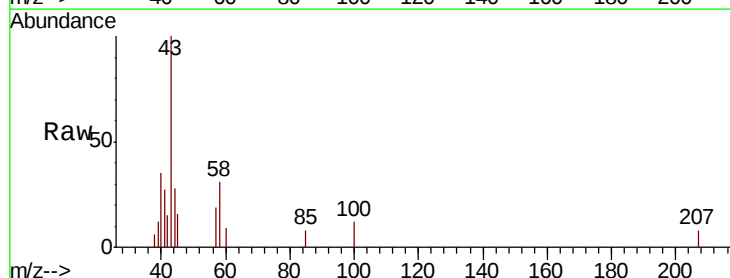
Acq: 1 Apr 2019 14:37

Tgt Ion: 43 Resp: 4197

Ion Ratio Lower Upper

43 100

58 34.7 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

9.99

3000

2500

2000

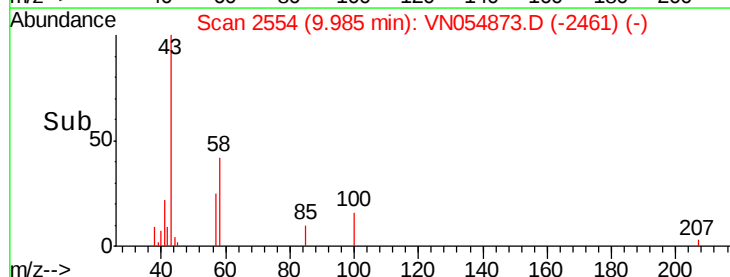
1500

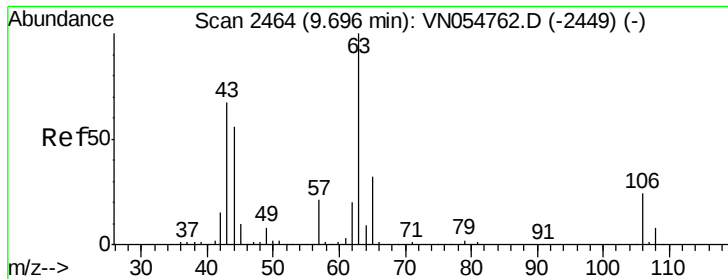
1000

500

0

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 10.365 ug/l

RT: 9.65 min Scan# 2451

Delta R.T. -0.04 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

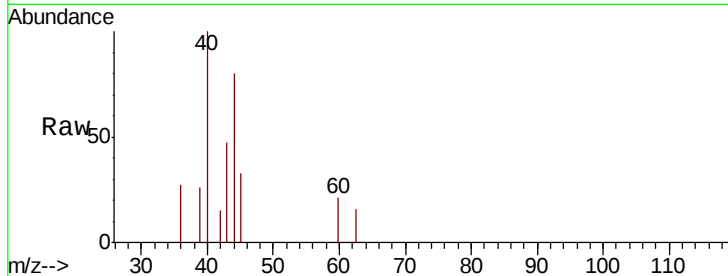
COMP-17

Tot Ion: 63 Resp: 31

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN

9.65

150

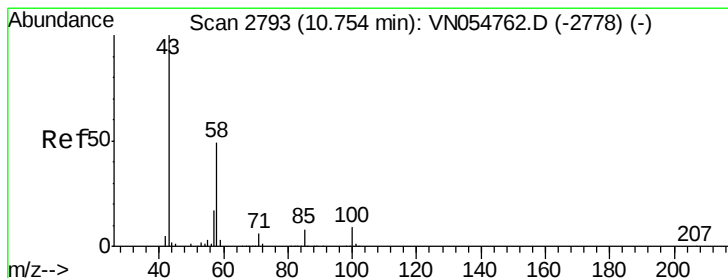
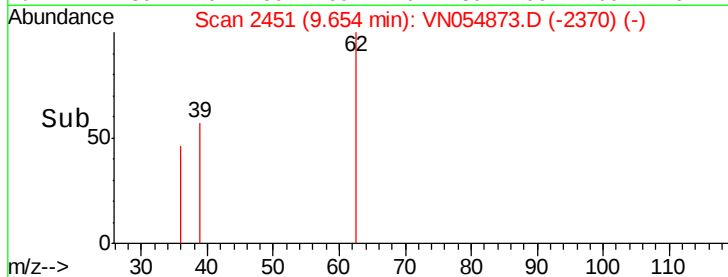
100

50

0

9.64 9.65 9.65 9.66 9.66

Time-->



#59

2-Hexanone

Concen: 5.777 ug/l

RT: 10.72 min Scan# 2783

Delta R.T. -0.03 min

Lab File: VN054873.D

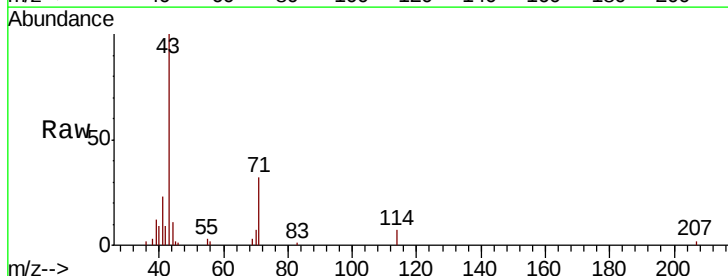
Acq: 1 Apr 2019 14:37

Tgt Ion: 43 Resp: 20240

Ion Ratio Lower Upper

43 100

58 0.0 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.72

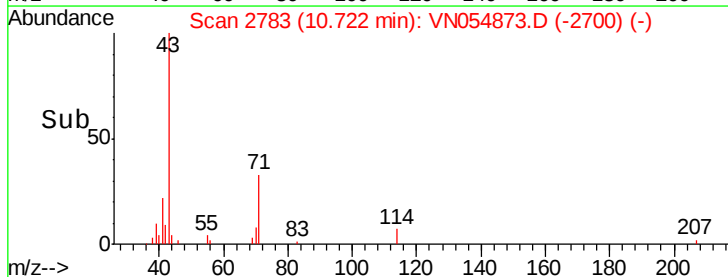
10000

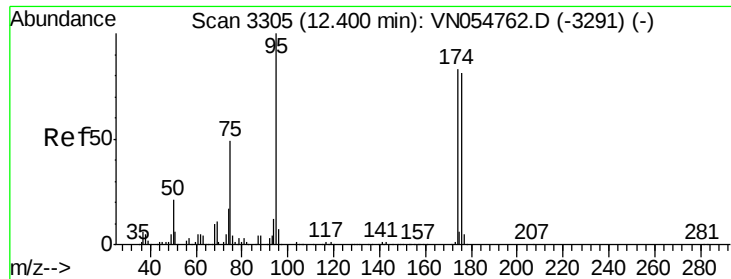
5000

0

10.65 10.70 10.75

Time-->





#62

4-Bromofluorobenzene

Concen: 45.018 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMP-17

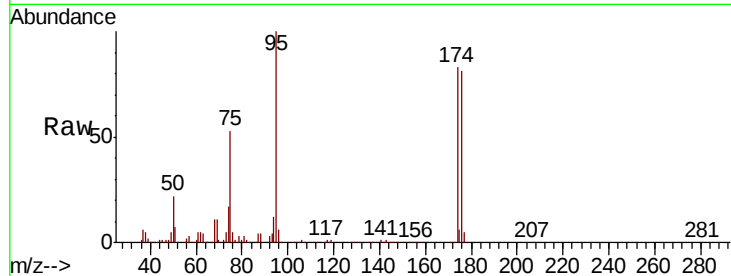
Tot Ion: 95 Resp: 325333

Ion Ratio Lower Upper

95 100

174 84.8 0.0 191.0

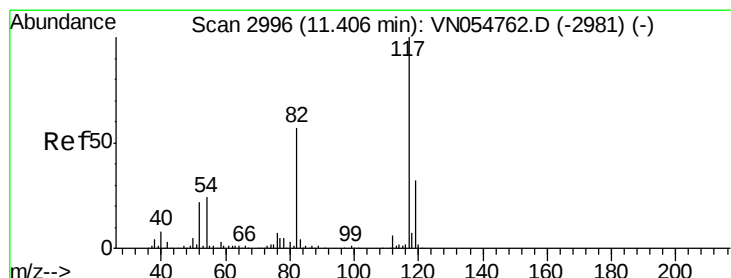
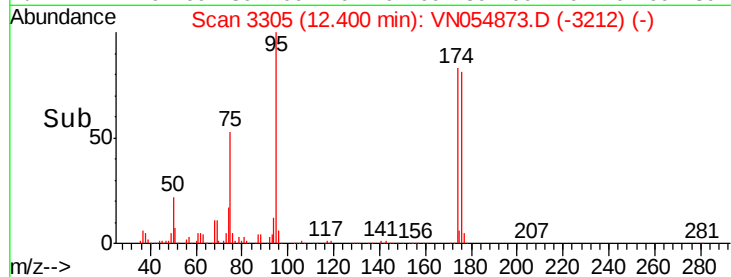
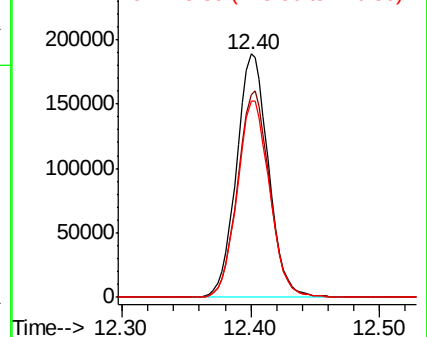
176 81.8 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054873.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054873.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054873.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

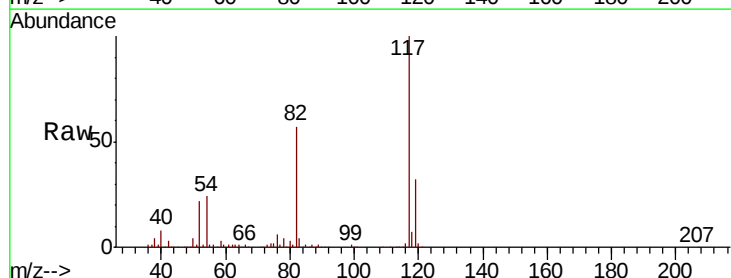
Tgt Ion: 117 Resp: 749880

Ion Ratio Lower Upper

117 100

82 56.6 40.0 60.0

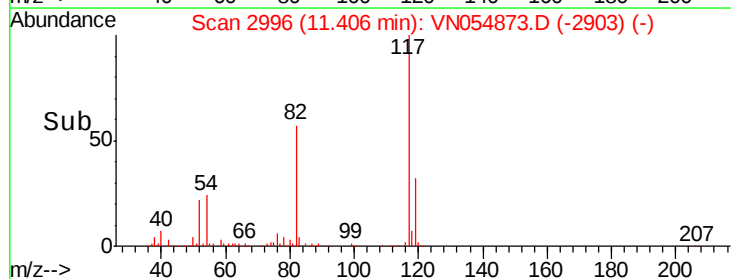
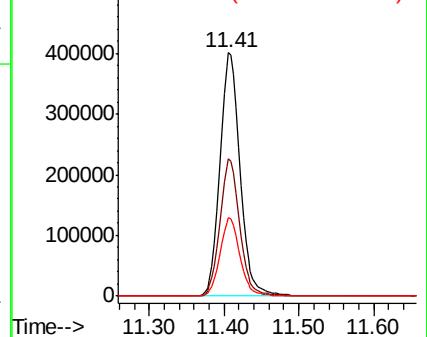
119 32.3 25.8 38.6

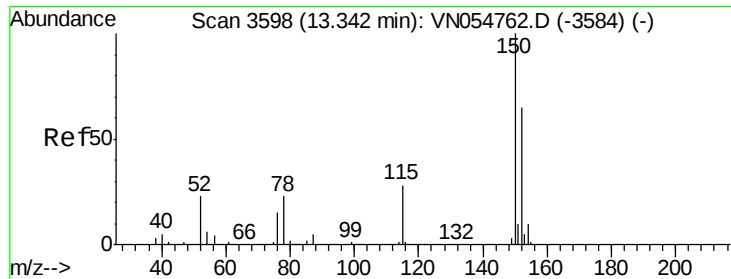


Abundance Ion 116.90 (116.60 to 117.60): VN054873.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054873.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054873.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

COMP-17

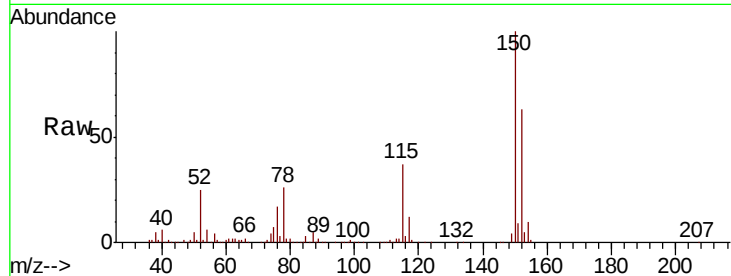
Tot Ion:152 Resp: 263594

Ion Ratio Lower Upper

152 100

115 58.4 27.2 81.6

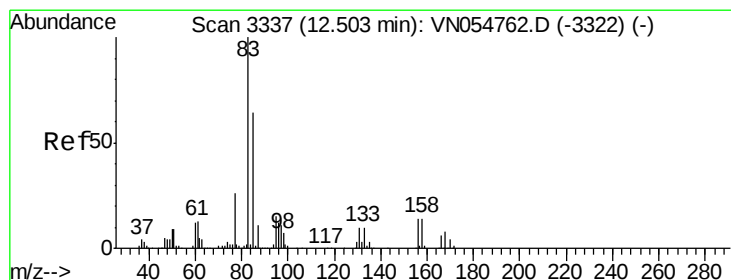
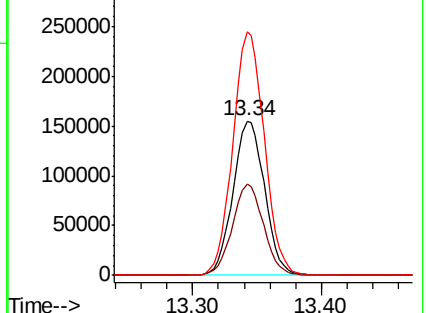
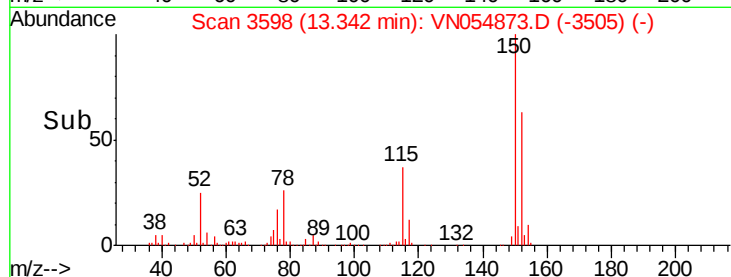
150 157.2 0.0 349.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

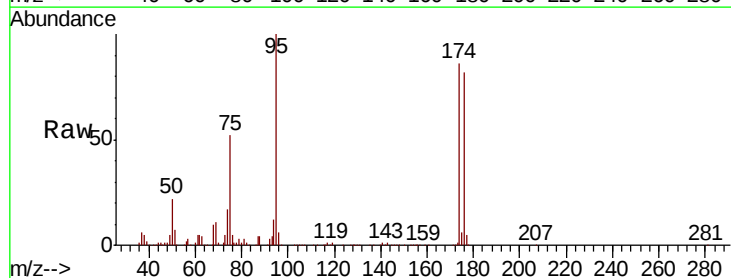
Tgt Ion: 83 Resp: 327

Ion Ratio Lower Upper

83 100

131 70.6 5.8 17.4#

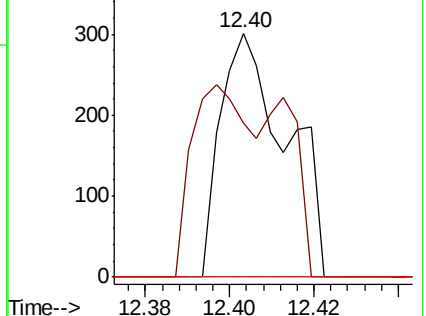
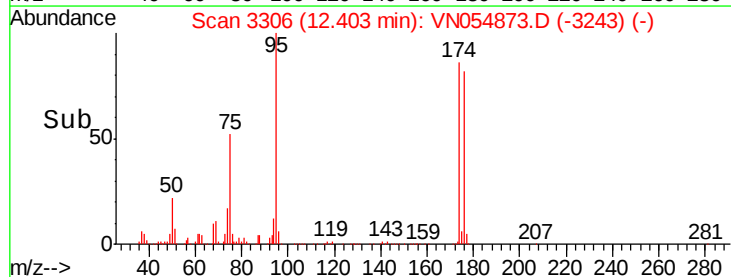
85 0.0 32.2 96.6#

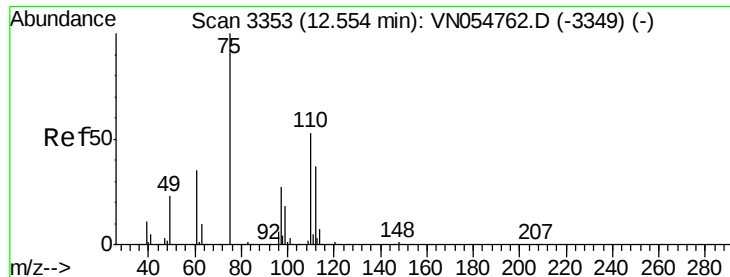


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.254 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

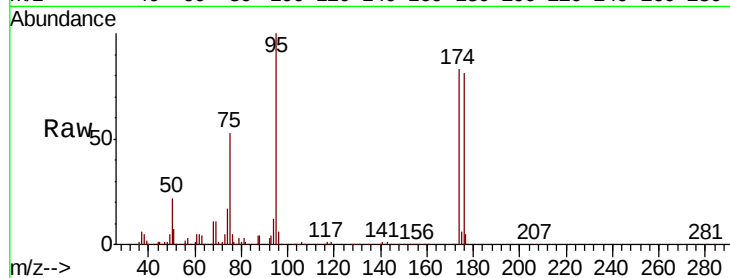
COMP-17

Tot Ion: 75 Resp: 170597

Ion Ratio Lower Upper

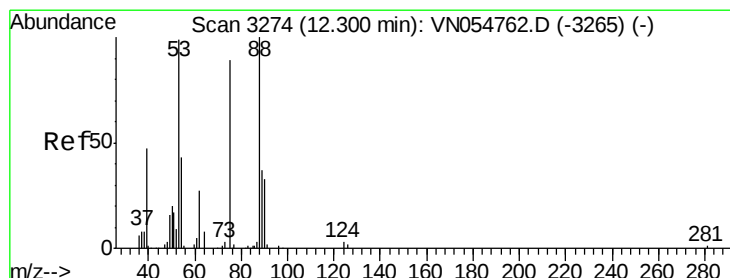
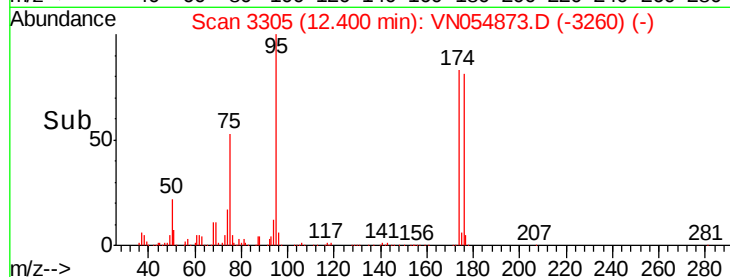
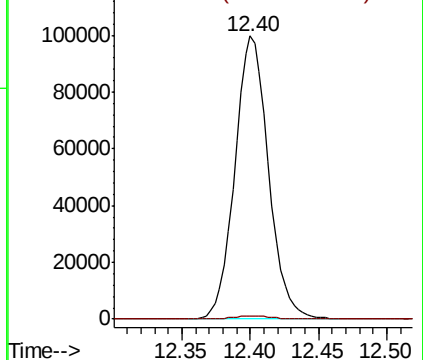
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 144.910 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054873.D

Acq: 1 Apr 2019 14:37

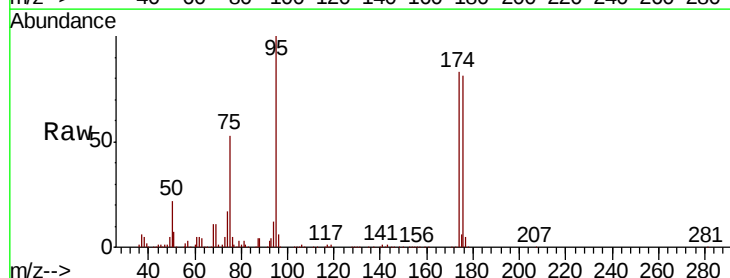
Tgt Ion: 75 Resp: 170597

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

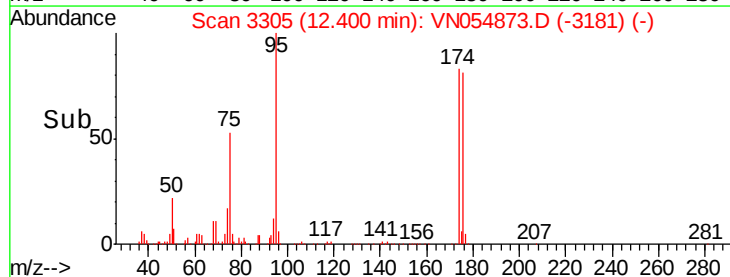
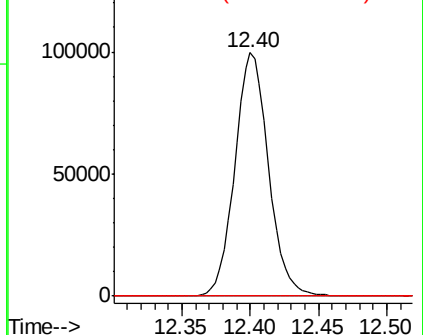
89 0.0 39.2 58.8#

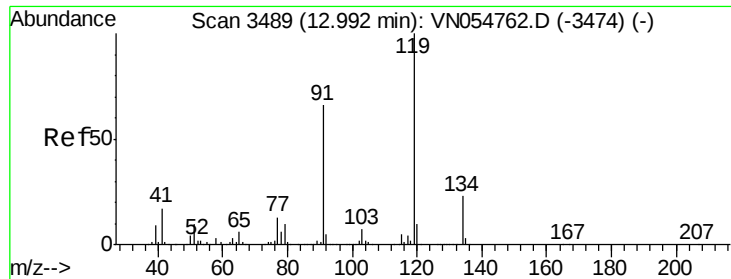


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.26 min
 Lab File: VN054873.D
 Acq: 1 Apr 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-17

Tot Ion:119 Resp: 600
 Ion Ratio Lower Upper
 119 100
 91 9.8 30.9 92.8#
 134 0.0 13.2 39.6#

