

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083120\
 Data File : VW016417.D
 Acq On : 31 Aug 2020 17:39
 Operator : SY/VA
 Sample : L3848-02
 Misc : 4.70G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LINDEN-BH-03-C

Quant Time: Sep 01 02:59:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082820S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 28 15:01:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	141444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	235786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	217300	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	100989	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	78788	55.64	ug/l	0.00
Spiked Amount			Recovery	=	111.28%	
35) Dibromofluoromethane	7.88	113	75799	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
50) Toluene-d8	10.33	98	277328	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.62	95	103087	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	

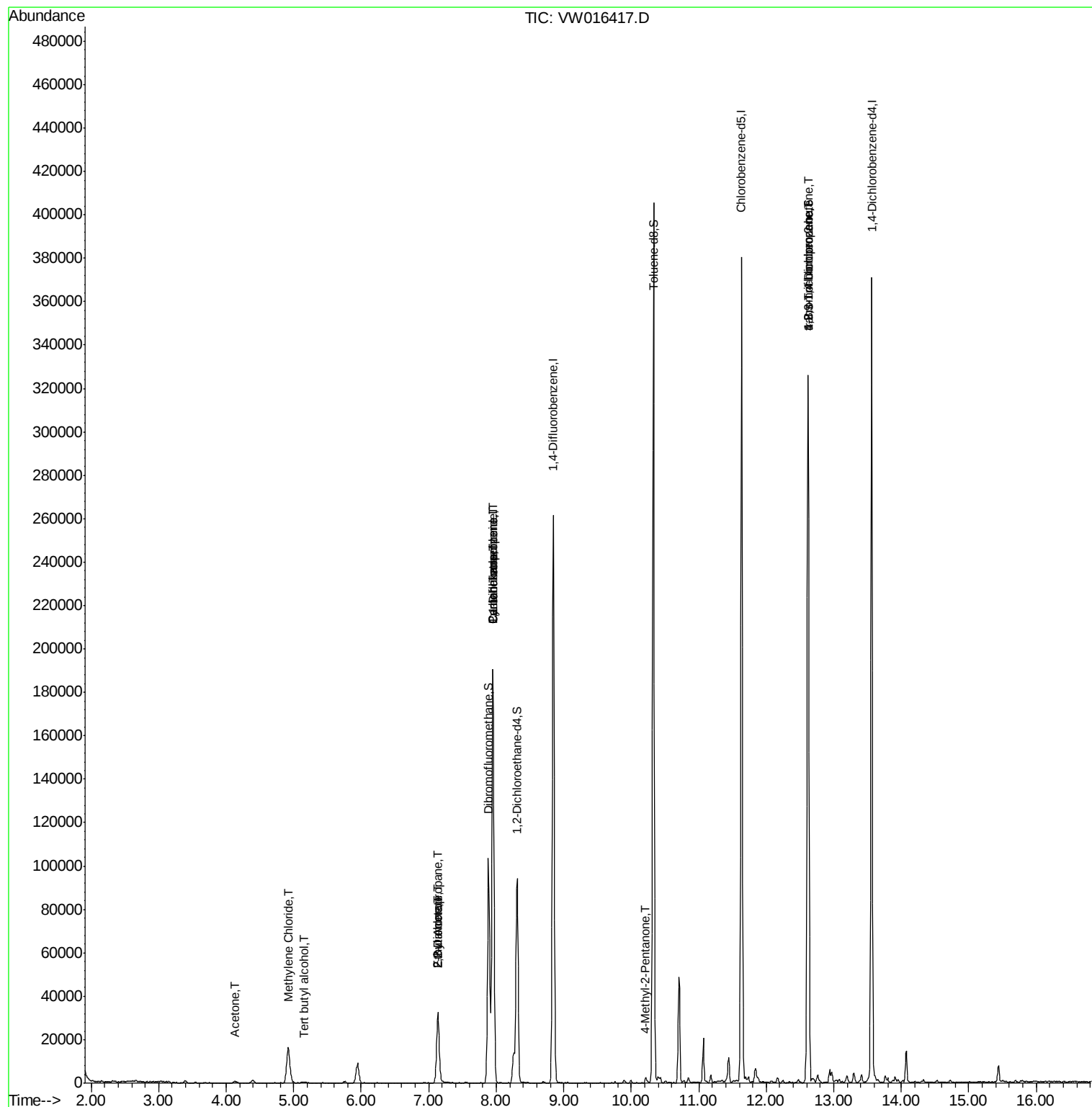
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	1088	1.041	ug/l #	72
16) Acetone	4.13	43	1786	7.428	ug/l #	82
20) Methylene Chloride	4.92	84	15004	4.754	ug/l #	90
25) 2-Butanone	7.13	43	1596	4.892	ug/l #	41
26) 2,2-Dichloropropane	7.13	77	2266	1.222	ug/l #	52
31) Cyclohexane	7.95	56	2823	1.283	ug/l #	37
36) 1,1-Dichloropropene	7.95	75	10423	4.645	ug/l #	49
37) Ethyl Acetate	7.13	43	1596	2.100	ug/l #	38
38) Carbon Tetrachloride	7.95	117	15038	6.116	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	1727	2.302	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	53000	59.350	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	53000	131.769	ug/l #	11

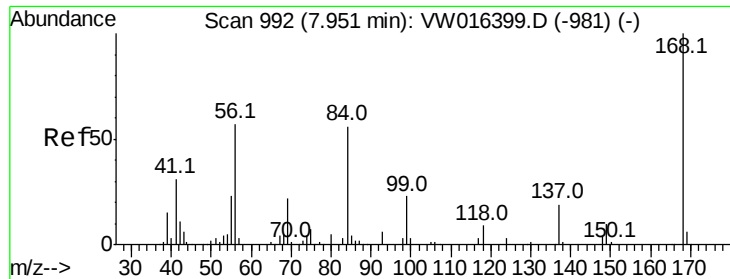
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082820S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 28 15:01:43 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

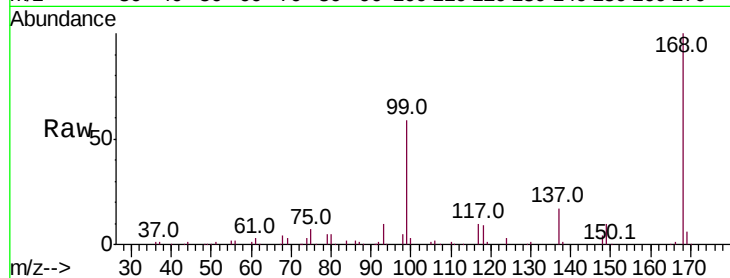
LINDEN-BH-03-C

Tot Ion:168 Resp: 141444

Ion Ratio Lower Upper

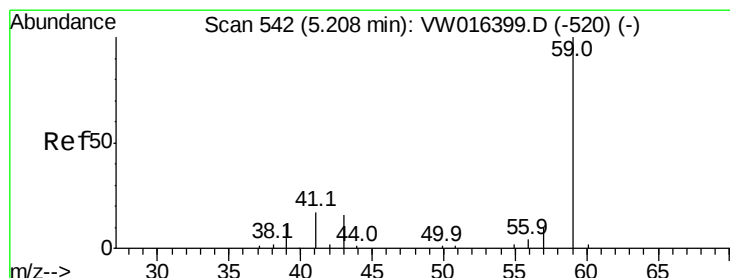
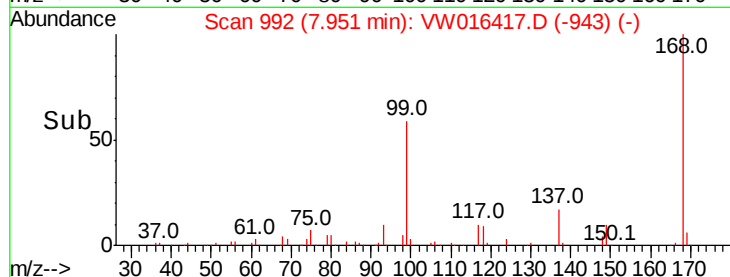
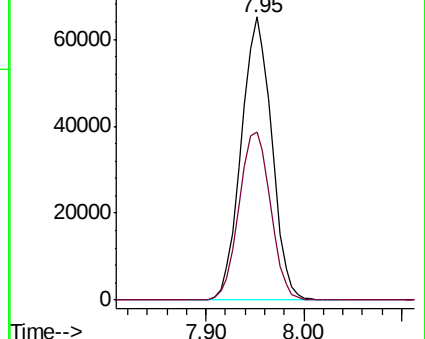
168 100

99 59.4 49.0 73.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.041 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.04 min

Lab File: VW016417.D

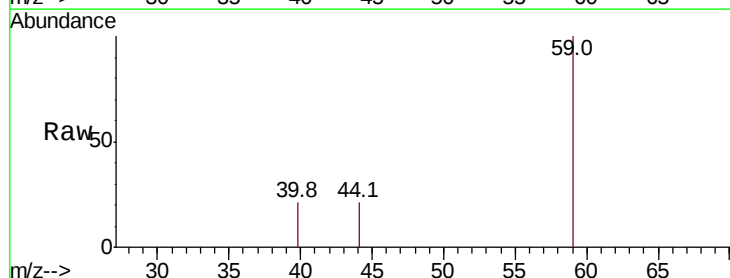
Acq: 31 Aug 2020 17:39

Tgt Ion: 59 Resp: 1088

Ion Ratio Lower Upper

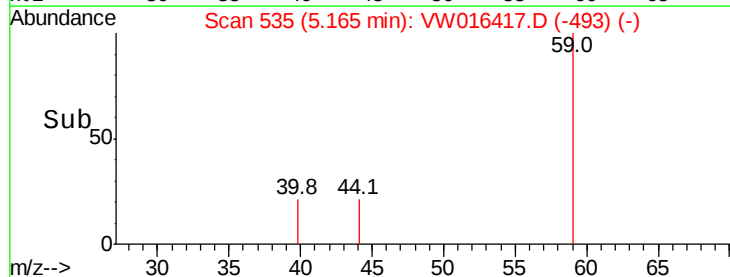
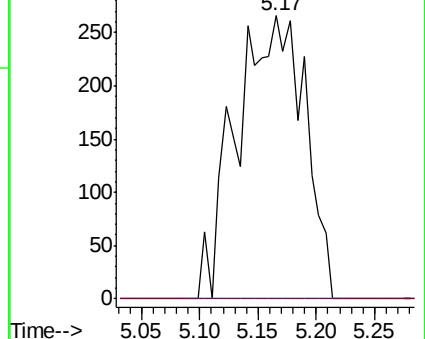
59 100

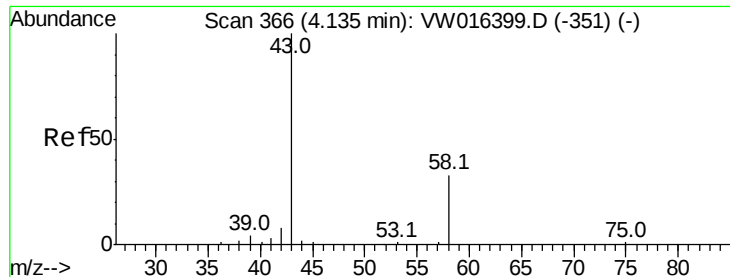
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 7.428 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

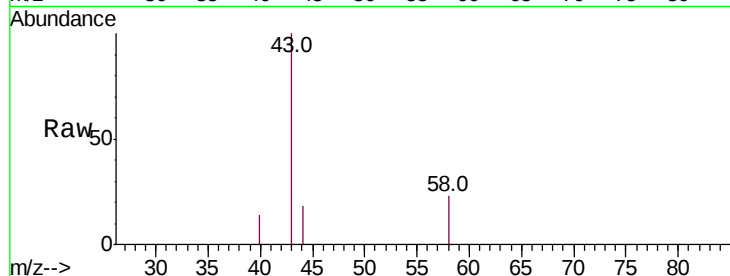
LINDEN-BH-03-C

Tot Ion: 43 Resp: 1786

Ion Ratio Lower Upper

43 100

58 23.1 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

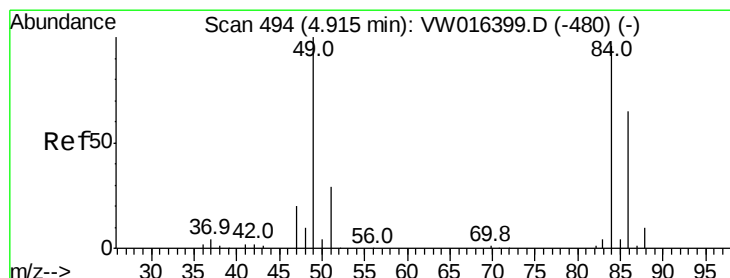
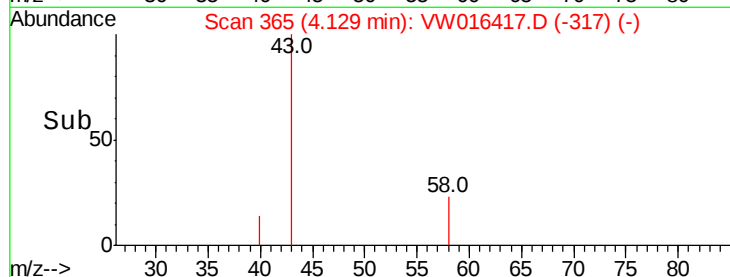
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 4.754 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Tgt Ion: 84 Resp: 15004

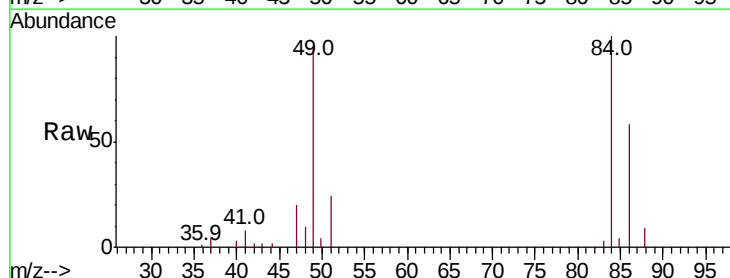
Ion Ratio Lower Upper

84 100

49 94.8 83.2 124.8

51 24.4 24.4 36.6#

86 57.7 54.2 81.2



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

4.92

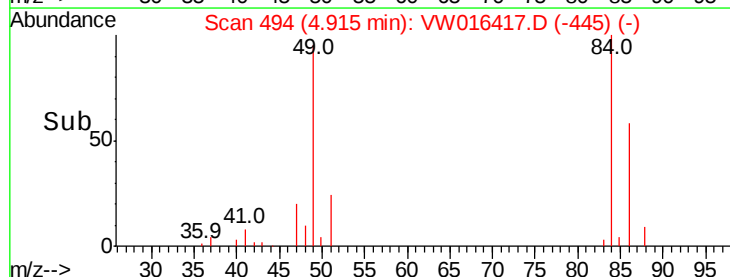
6000

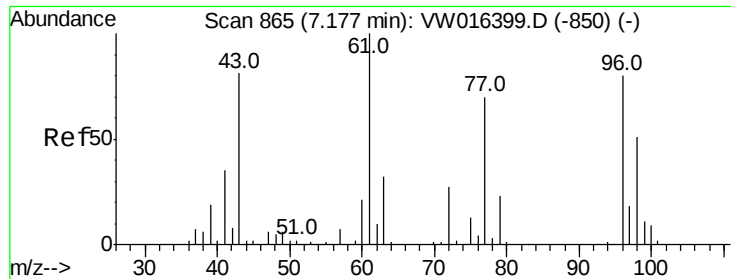
4000

2000

0

Time-->





#25

2-Butanone

Concen: 4.892 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

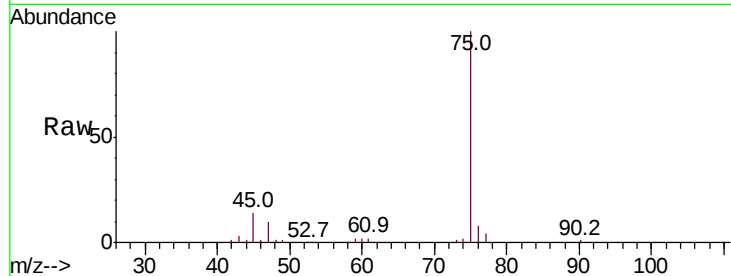
LINDEN-BH-03-C

Tot Ion: 43 Resp: 1596

Ion Ratio Lower Upper

43 100

72 0.0 26.7 40.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.13

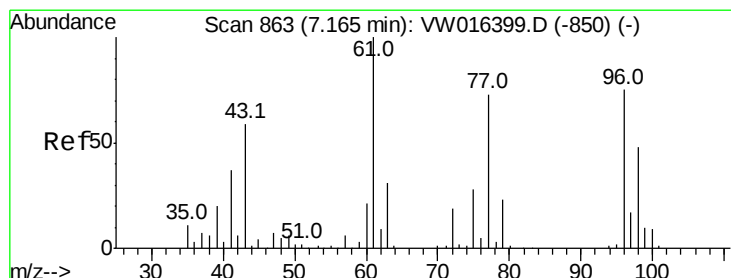
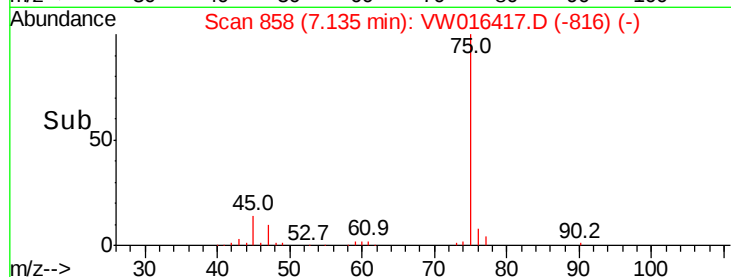
600

400

200

0

Time-->



#26

2,2-Dichloropropane

Concen: 1.222 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW016417.D

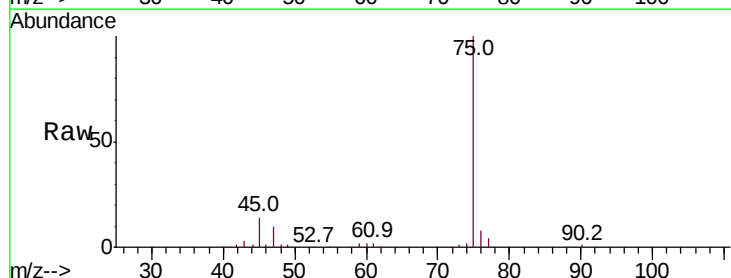
Acq: 31 Aug 2020 17:39

Tgt Ion: 77 Resp: 2266

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.13

1000

800

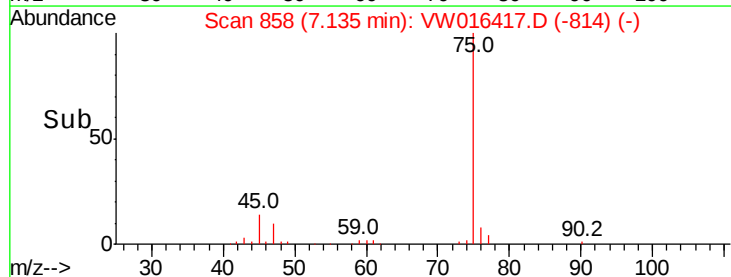
600

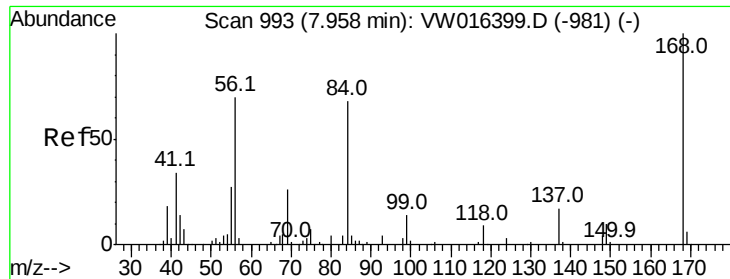
400

200

0

Time-->

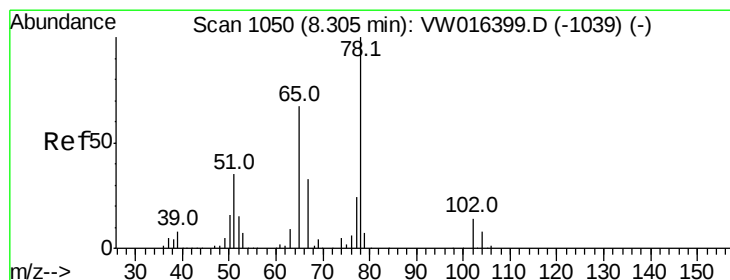
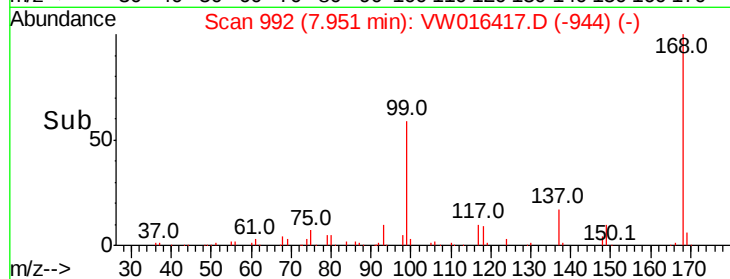
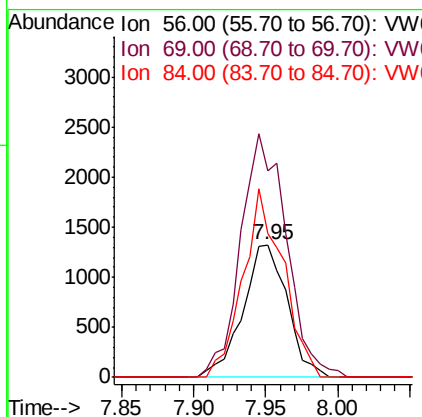
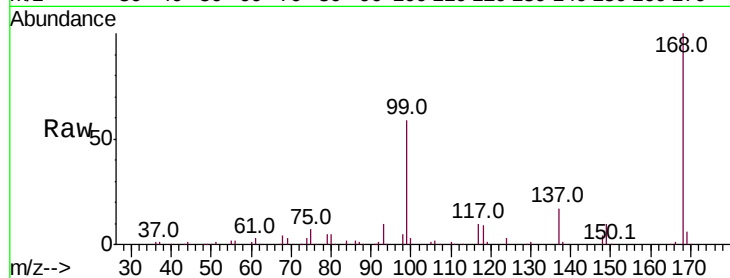




#31
Cyclohexane
Concen: 1.283 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW016417.D
Acq: 31 Aug 2020 17:39

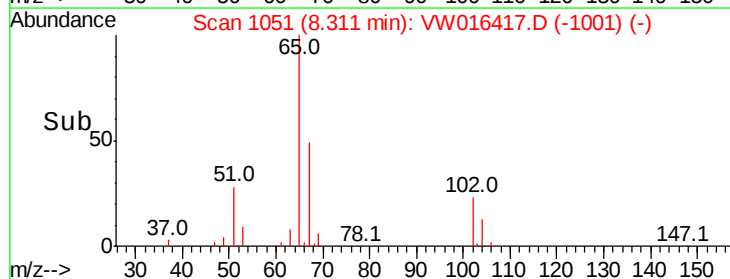
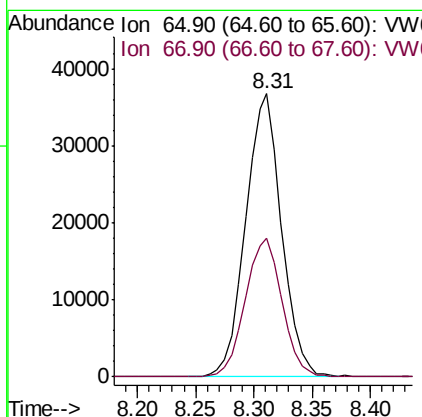
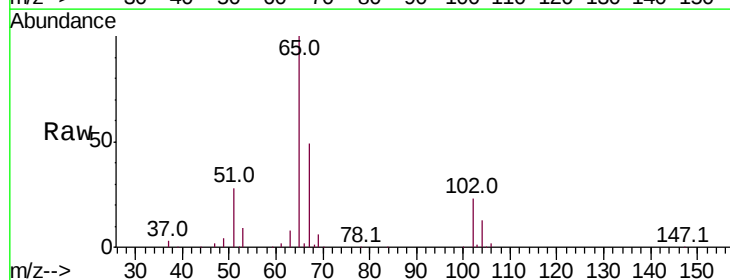
Instrument :
MSVOA_W
ClientSampleId :
LINDEN-BH-03-C

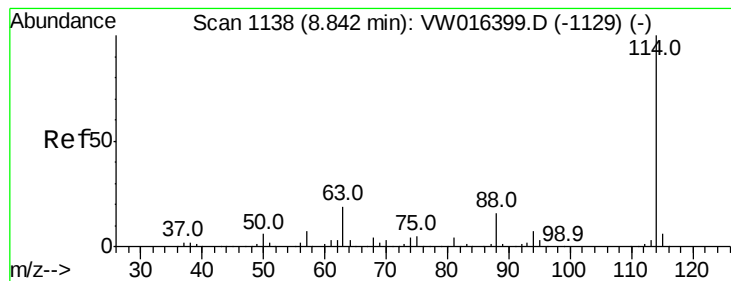
Tot Ion: 56 Resp: 2823
Ion Ratio Lower Upper
56 100
69 155.3 30.0 45.0#
84 108.1 77.4 116.2



#33
1,2-Dichloroethane-d4
Concen: 55.645 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VW016417.D
Acq: 31 Aug 2020 17:39

Tgt Ion: 65 Resp: 78788
Ion Ratio Lower Upper
65 100
67 50.6 0.0 100.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

LINDEN-BH-03-C

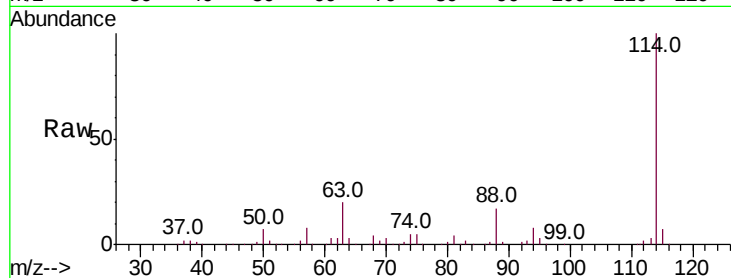
Tot Ion:114 Resp: 235786

Ion Ratio Lower Upper

114 100

63 19.8 0.0 37.8

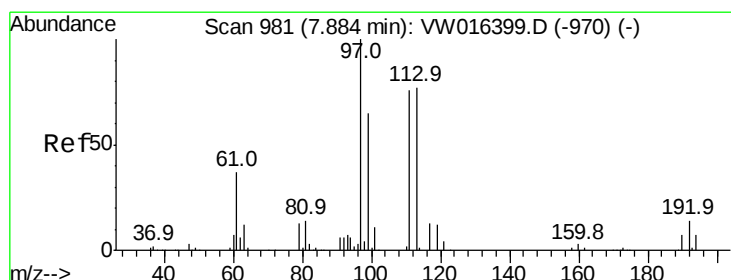
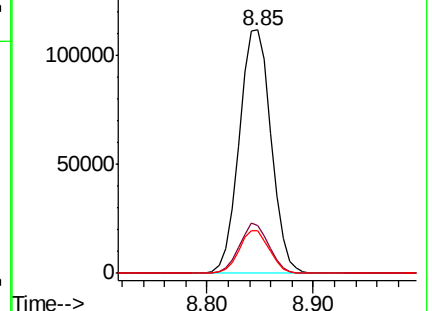
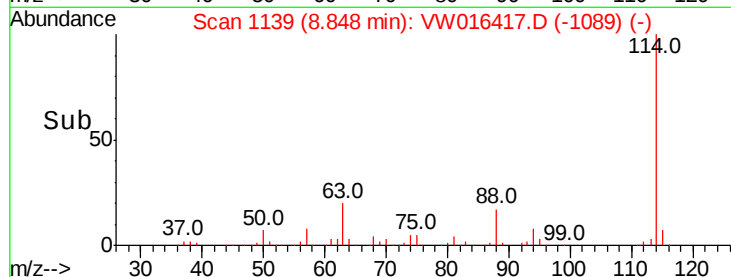
88 17.4 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.788 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

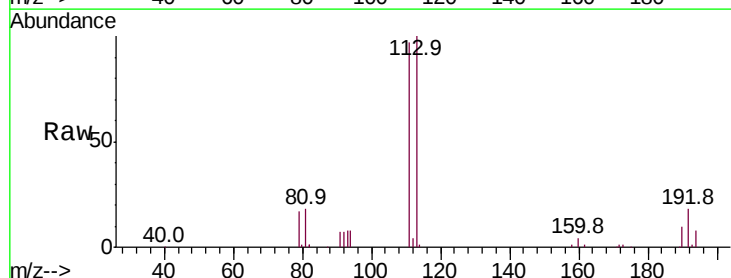
Tgt Ion:113 Resp: 75799

Ion Ratio Lower Upper

113 100

111 102.6 82.1 123.1

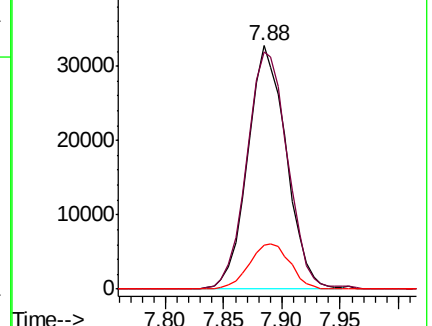
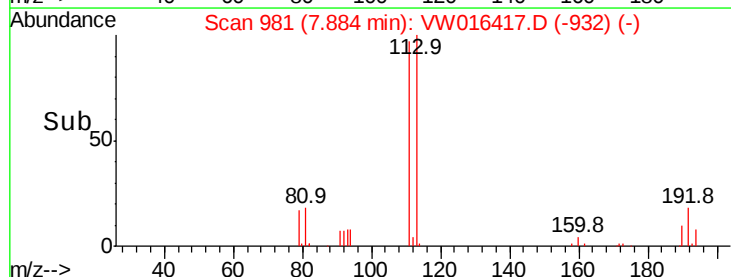
192 19.4 15.5 23.3

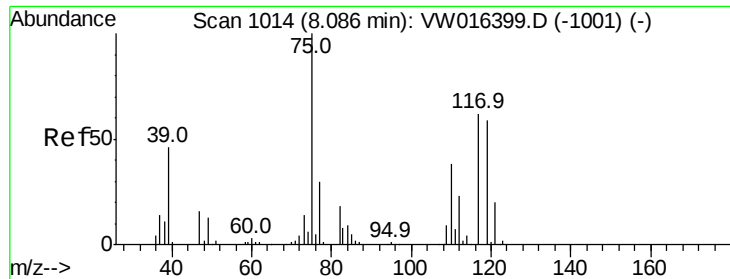


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.645 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

LINDEN-BH-03-C

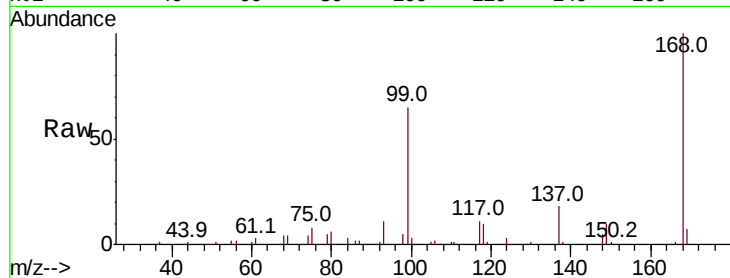
Tot Ion: 75 Resp: 10423

Ion Ratio Lower Upper

75 100

110 9.7 18.6 56.0#

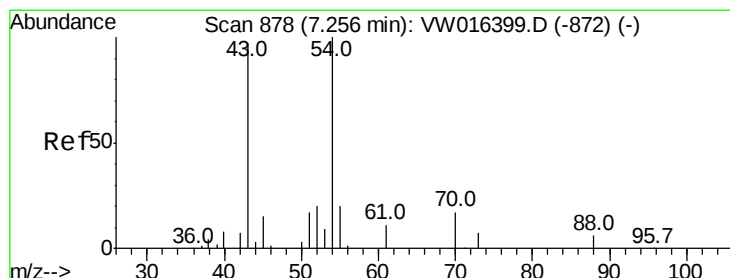
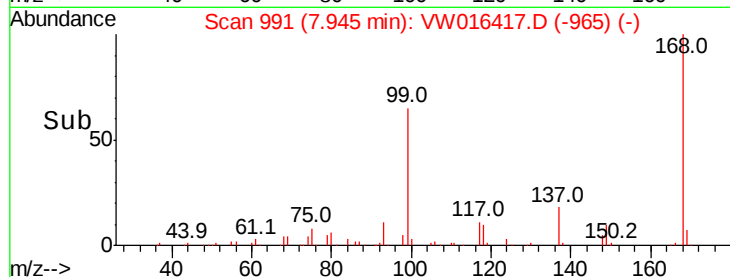
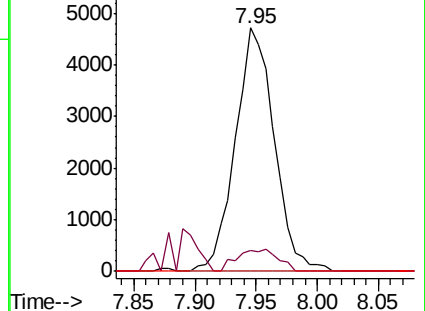
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 2.100 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.12 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

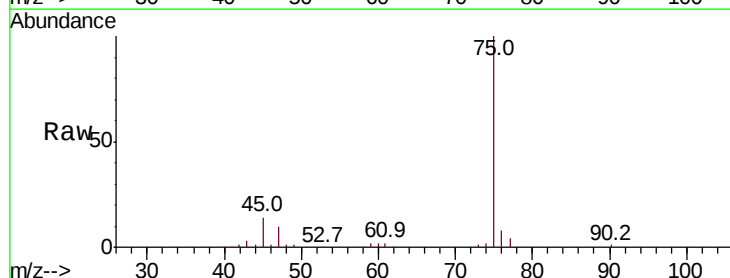
Tgt Ion: 43 Resp: 1596

Ion Ratio Lower Upper

43 100

61 50.5 11.5 17.3#

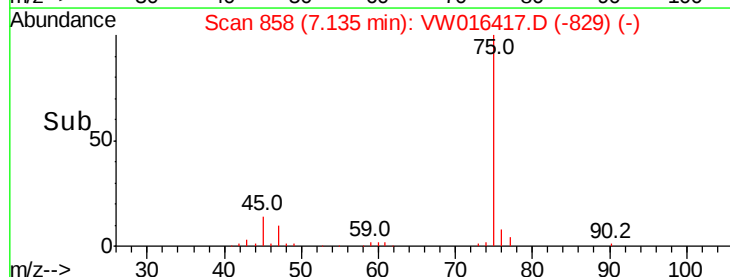
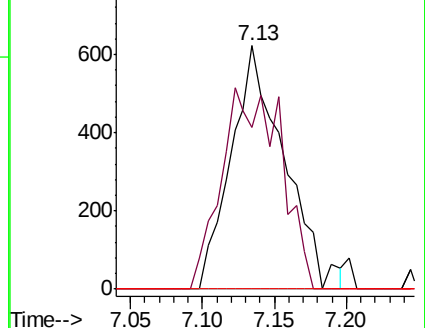
70 0.0 10.7 16.1#

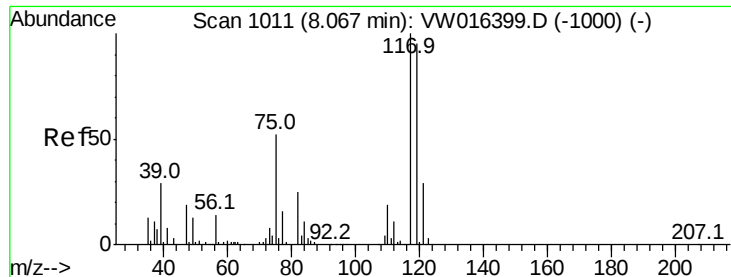


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.116 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

LINDEN-BH-03-C

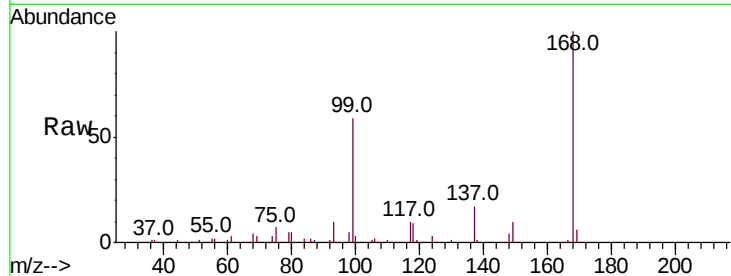
Tot Ion:117 Resp: 15038

Ion Ratio Lower Upper

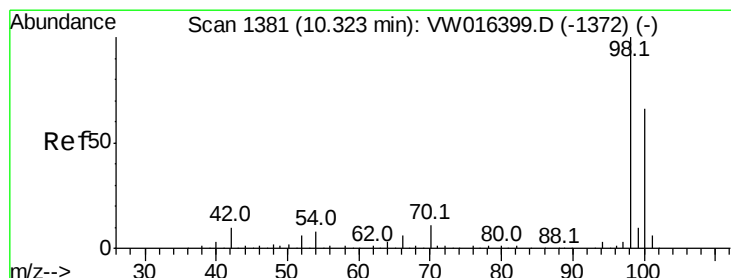
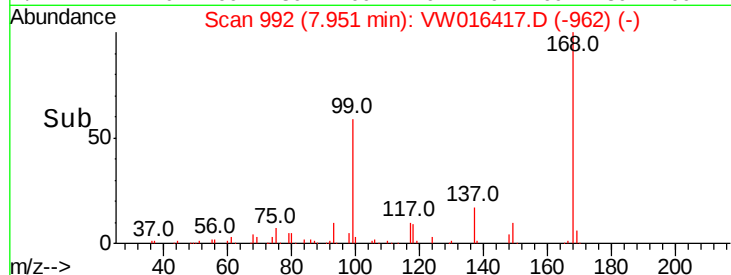
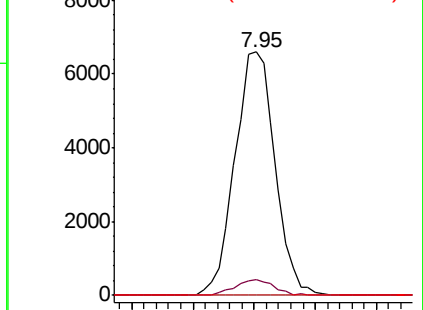
117 100

119 6.3 76.3 114.5#

121 0.0 23.0 34.6#



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



#50

Toluene-d8

Concen: 49.623 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW016417.D

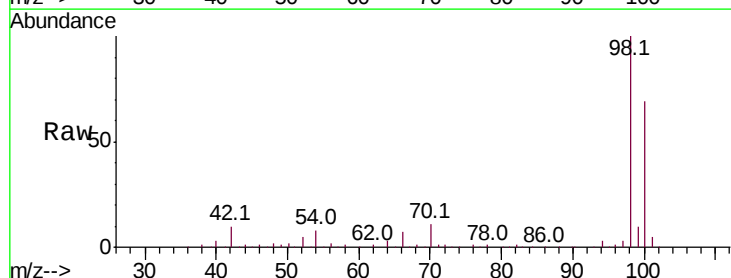
Acq: 31 Aug 2020 17:39

Tgt Ion: 98 Resp: 277328

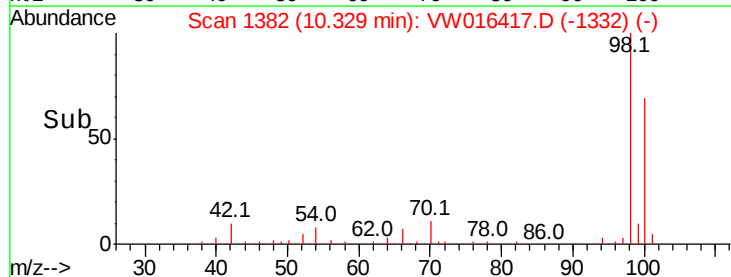
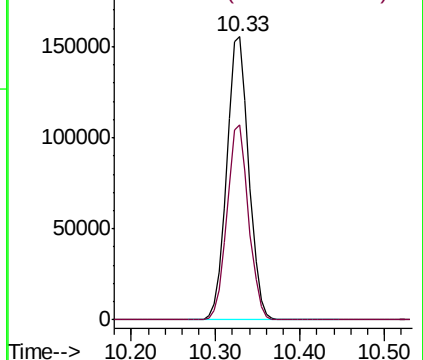
Ion Ratio Lower Upper

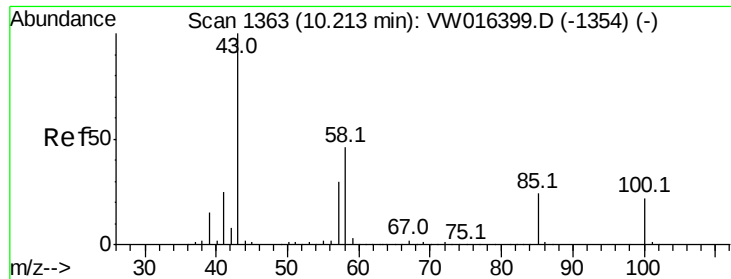
98 100

100 67.6 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 2.302 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

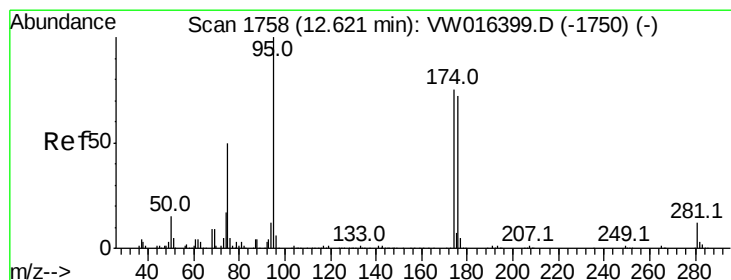
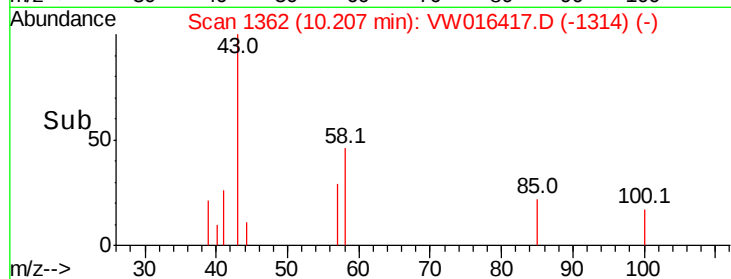
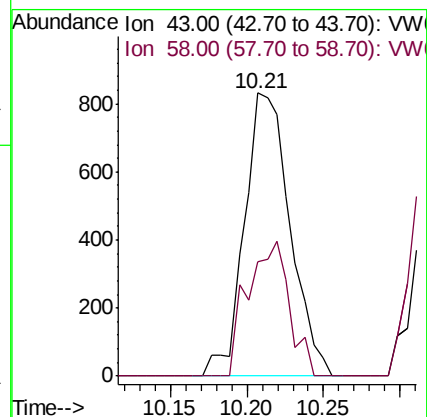
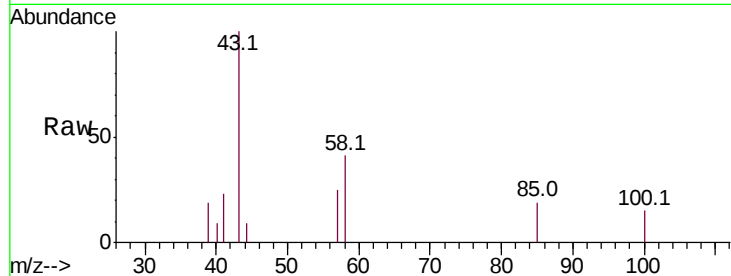
LINDEN-BH-03-C

Tot Ion: 43 Resp: 1727

Ion Ratio Lower Upper

43 100

58 43.4 35.4 53.0



#62

4-Bromofluorobenzene

Concen: 49.189 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

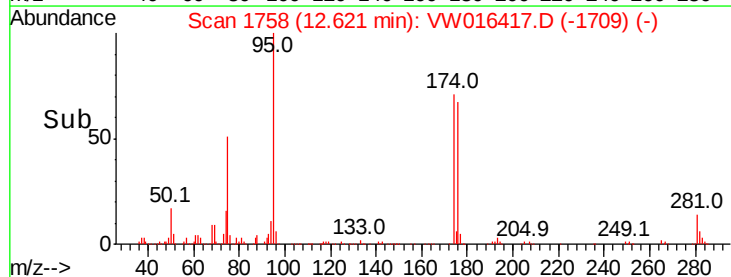
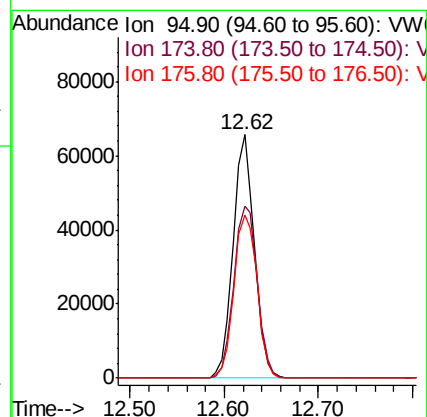
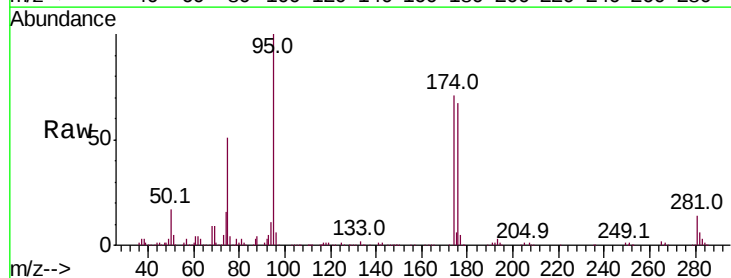
Tgt Ion: 95 Resp: 103087

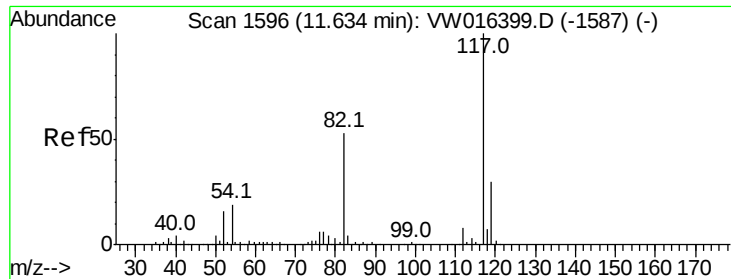
Ion Ratio Lower Upper

95 100

174 77.4 0.0 152.0

176 72.8 0.0 145.6

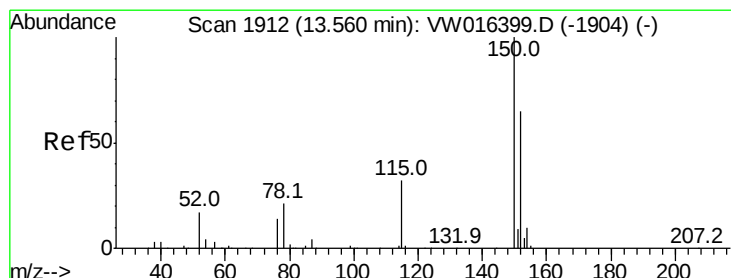
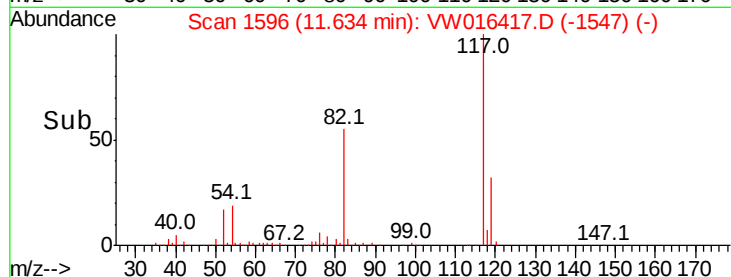
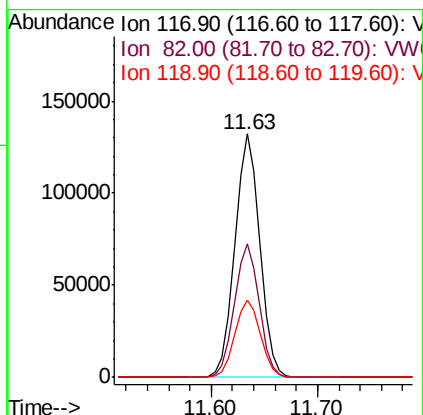
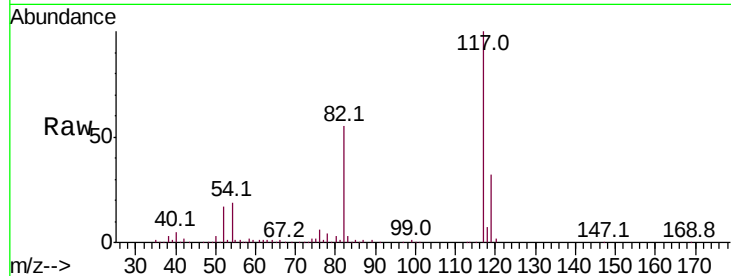




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016417.D
Acq: 31 Aug 2020 17:39

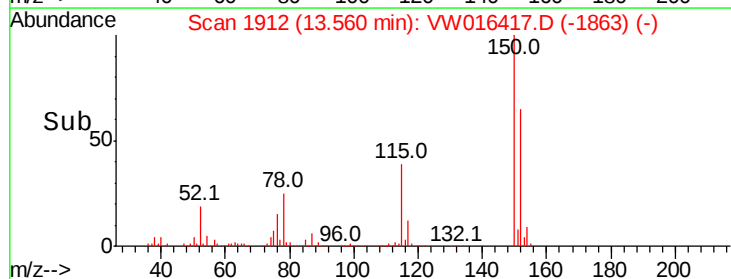
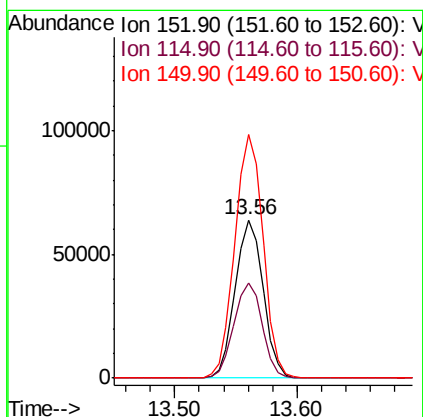
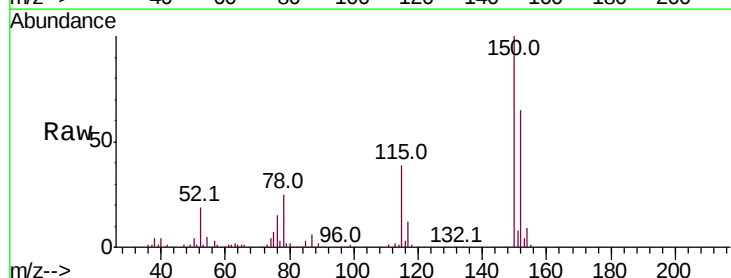
Instrument :
MSVOA_W
ClientSampleId :
LINDEN-BH-03-C

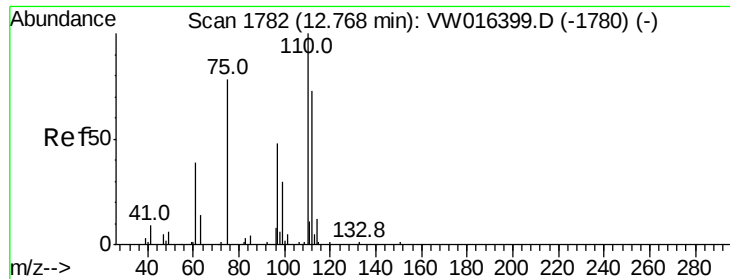
Tot Ion:117 Resp: 217300
Ion Ratio Lower Upper
117 100
82 55.0 42.2 63.4
119 31.9 24.2 36.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW016417.D
Acq: 31 Aug 2020 17:39

Tgt Ion:152 Resp: 100989
Ion Ratio Lower Upper
152 100
115 61.0 30.9 92.5
150 155.6 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 59.350 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Instrument :

MSVOA_W

ClientSampleId :

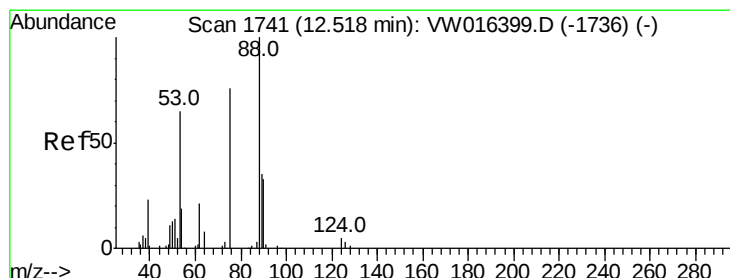
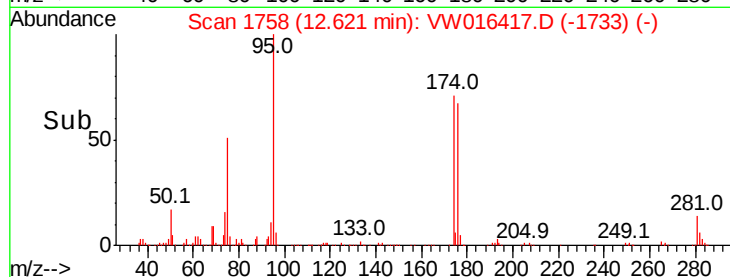
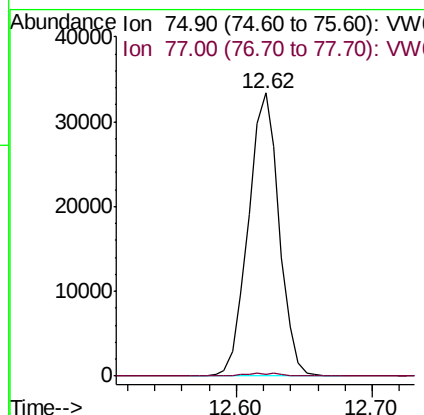
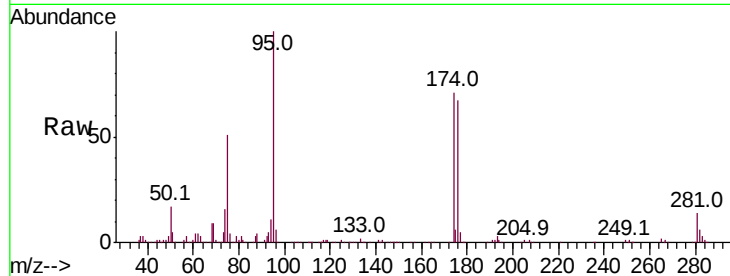
LINDEN-BH-03-C

Tot Ion: 75 Resp: 53000

Ion Ratio Lower Upper

75 100

77 1.2 173.4 520.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 131.769 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW016417.D

Acq: 31 Aug 2020 17:39

Tgt Ion: 75 Resp: 53000

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.4 40.4 60.6#

