

Data File : VW012378.D
Acq On : 31 Aug 2019 04:39
Operator : SY/VA
Sample : K4562-06
Misc : 4.76G/5ML/MSVOA_W/SOIL
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SB-02-25-27

Quant Time: Aug 31 05:10:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	189641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	313514	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	262603	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	104986	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	128929	57.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.38%	
35) Dibromofluoromethane	7.88	113	99342	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	
50) Toluene-d8	10.32	98	388585	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
62) 4-Bromofluorobenzene	12.62	95	121233	45.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.66%	

Target Compounds

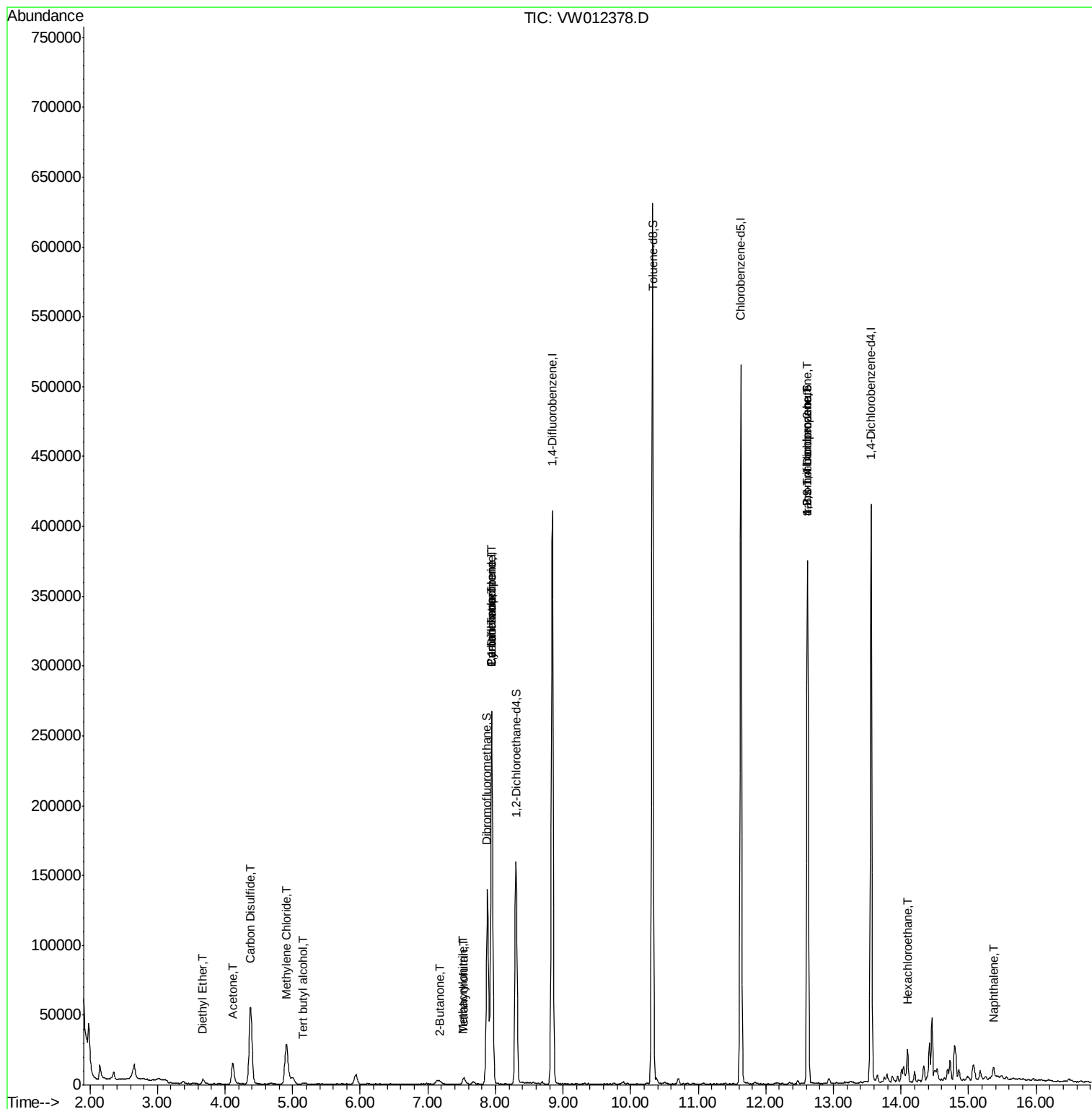
						Qvalue
8) Diethyl Ether	3.67	74	1646	1.560	ug/l	89
11) Tert butyl alcohol	5.15	59	687	5.064	ug/l #	91
16) Acetone	4.11	43	26894	46.670	ug/l	99
17) Carbon Disulfide	4.37	76	123673	21.513	ug/l	97
20) Methylene Chloride	4.91	84	20945	9.614	ug/l	94
25) 2-Butanone	7.18	43	3242	4.140	ug/l	93
29) Tetrahydrofuran	7.54	42	3864	8.225	ug/l	96
31) Cyclohexane	7.95	56	4987	1.228	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	16264	5.020	ug/l #	53
38) Carbon Tetrachloride	7.95	117	18926	6.749	ug/l #	16
41) Methacrylonitrile	7.52	41	2492	2.388	ug/l #	56
76) 1,2,3-Trichloropropane	12.62	75	66230	64.773	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	66230	142.018	ug/l #	6
90) Hexachloroethane	14.10	117	1254	1.003	ug/l #	11
95) Naphthalene	15.36	128	7320	6.010	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampleId :

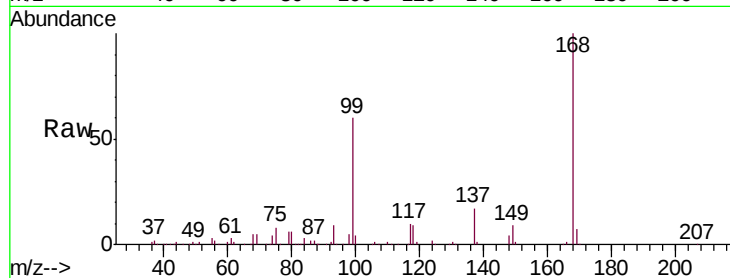
SB-02-25-27

Tgt Ion:168 Resp: 189641

Ion Ratio Lower Upper

168 100

99 60.4 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

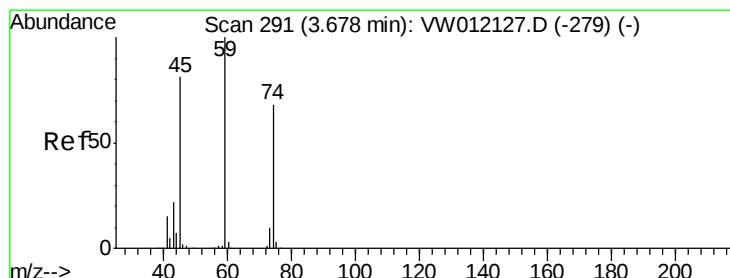
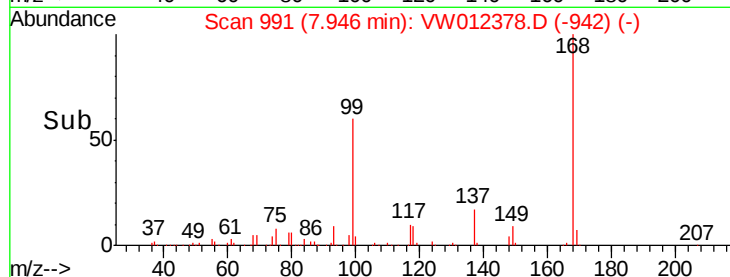
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.560 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012378.D

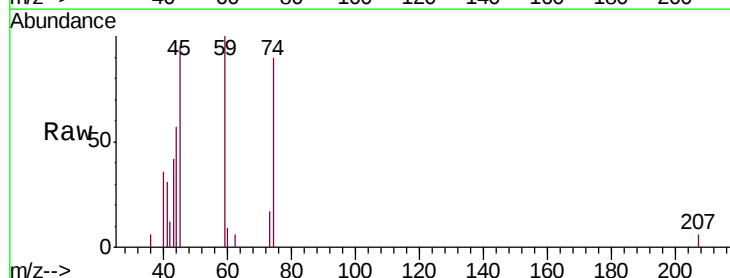
Acq: 31 Aug 2019 04:39

Tgt Ion: 74 Resp: 1646

Ion Ratio Lower Upper

74 100

45 130.8 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

1000

800

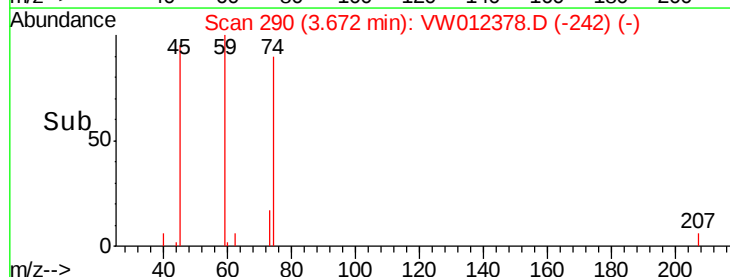
600

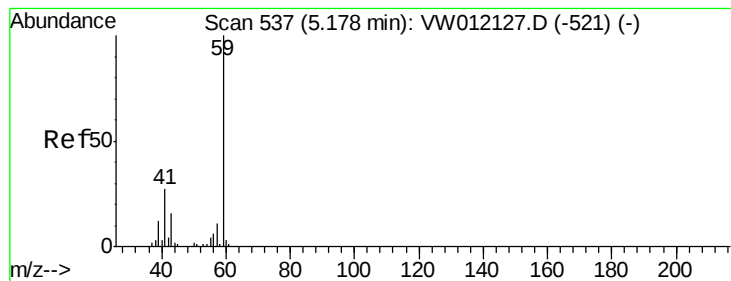
400

200

0

Time-->



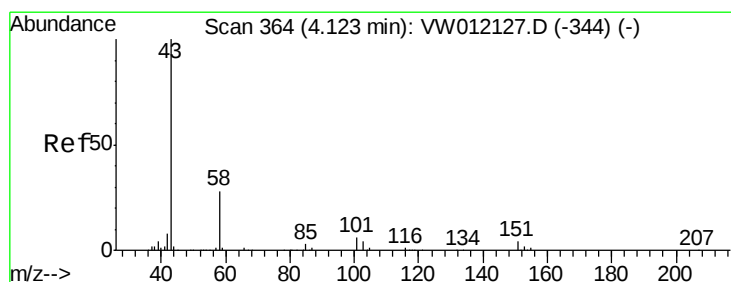
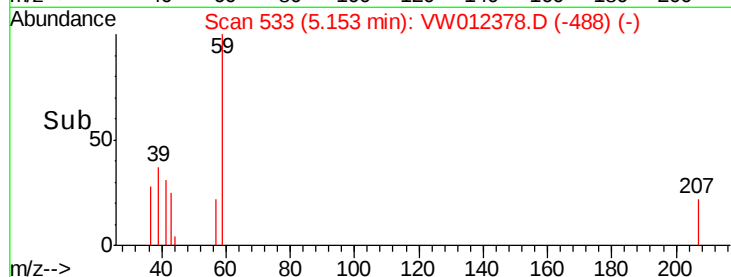
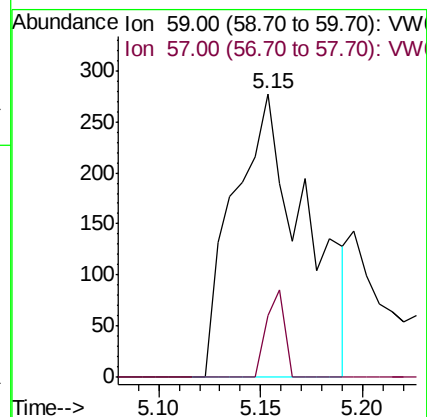
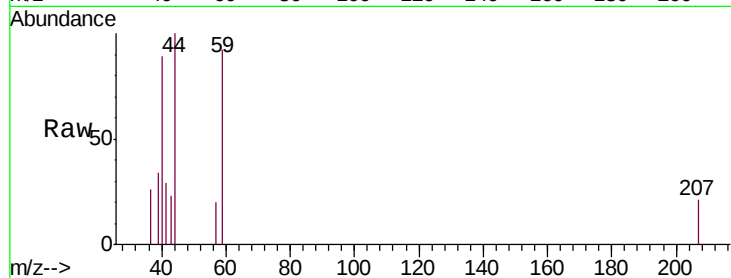


#11

Tert butyl alcohol
Concen: 5.064 ug/l
RT: 5.15 min Scan# 533
Delta R.T. -0.02 min
Lab File: VW012378.D
Acq: 31 Aug 2019 04:39

Instrument :
MSVOA_W
ClientSampleId :
SB-02-25-27

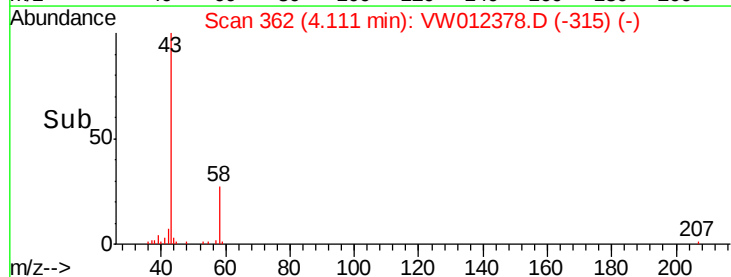
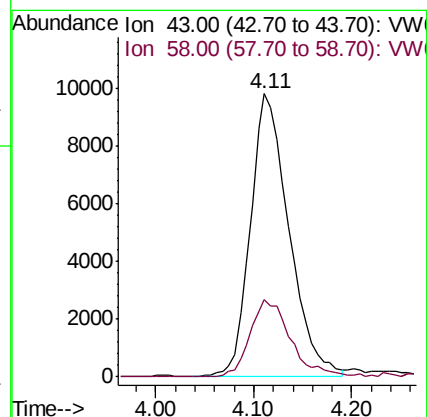
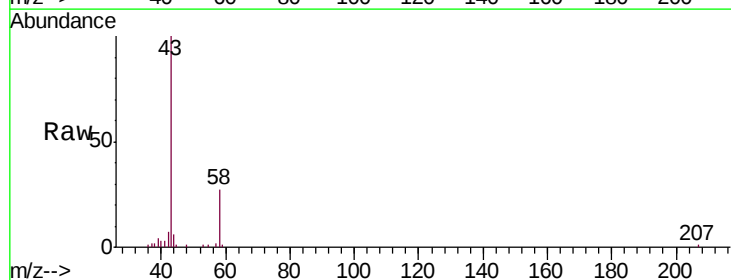
Tgt Ion: 59 Resp: 687
Ion Ratio Lower Upper
59 100
57 7.7 9.0 13.4#

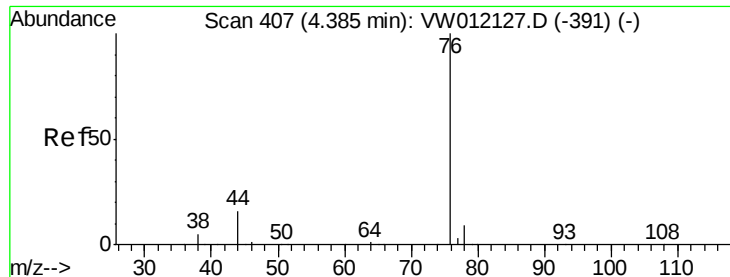


#16

Acetone
Concen: 46.670 ug/l
RT: 4.11 min Scan# 362
Delta R.T. -0.01 min
Lab File: VW012378.D
Acq: 31 Aug 2019 04:39

Tgt Ion: 43 Resp: 26894
Ion Ratio Lower Upper
43 100
58 27.3 22.4 33.6





#17

Carbon Disulfide

Concen: 21.513 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampleId :

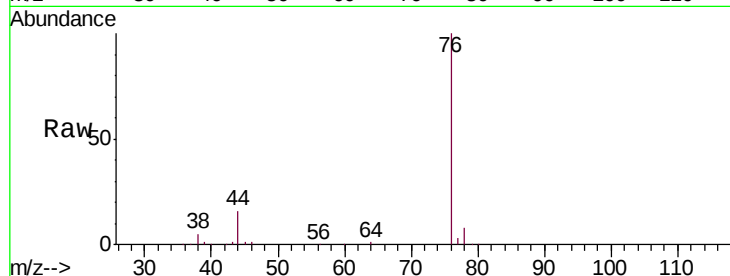
SB-02-25-27

Tgt Ion: 76 Resp: 123673

Ion Ratio Lower Upper

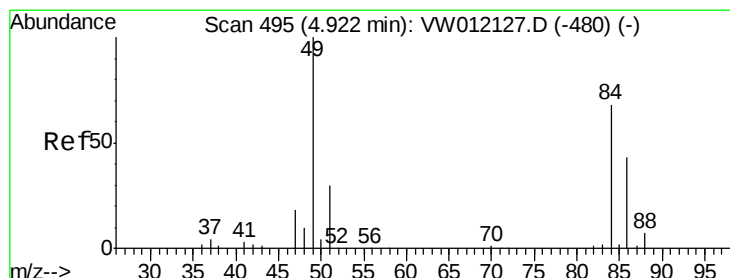
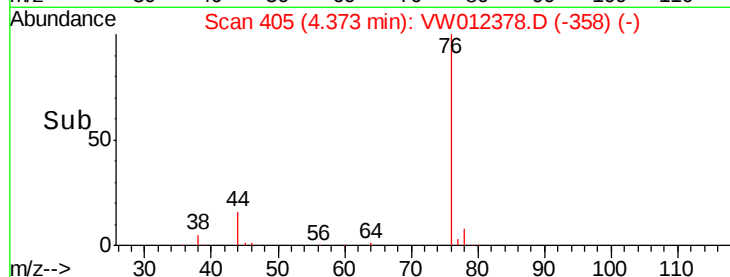
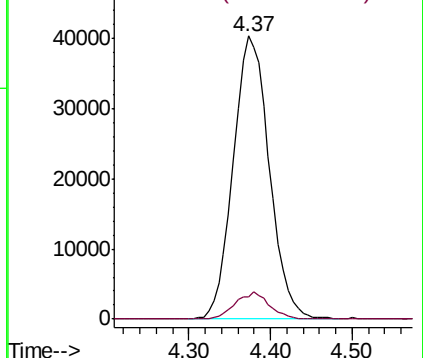
76 100

78 7.9 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 9.614 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Tgt Ion: 84 Resp: 20945

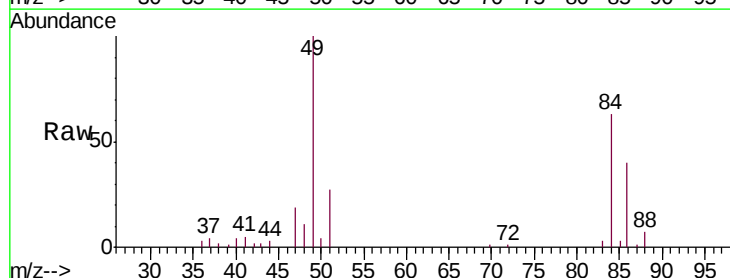
Ion Ratio Lower Upper

84 100

49 158.6 117.8 176.8

51 43.1 35.6 53.4

86 62.6 51.2 76.8

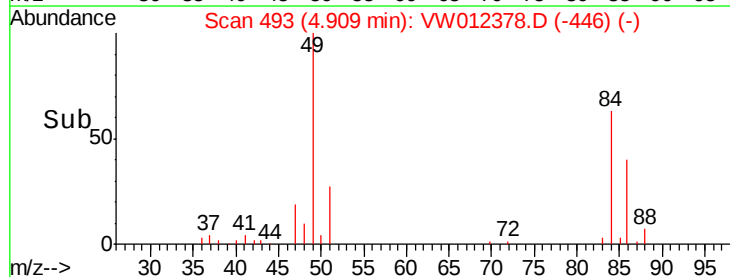
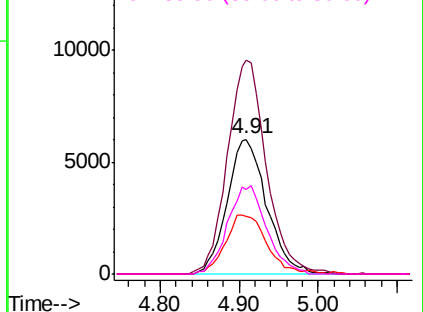


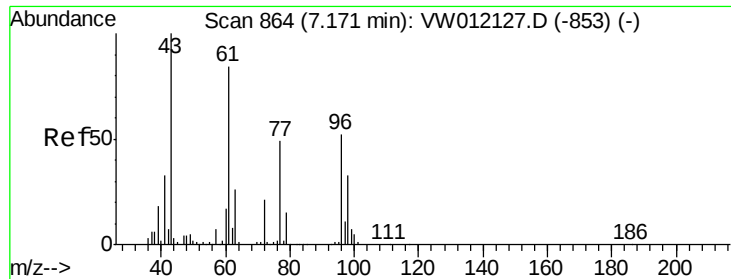
Abundance Ion 83.90 (83.60 to 84.60): VW

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





#25

2-Butanone

Concen: 4.140 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampled :

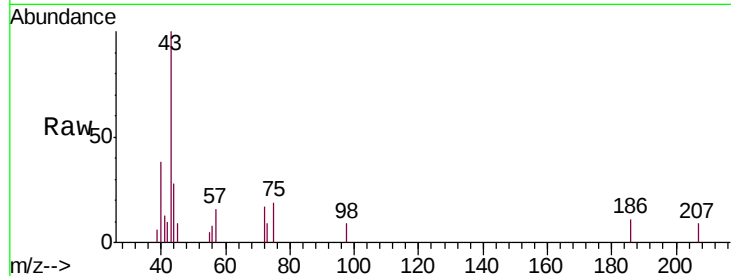
SB-02-25-27

Tgt Ion: 43 Resp: 3242

Ion Ratio Lower Upper

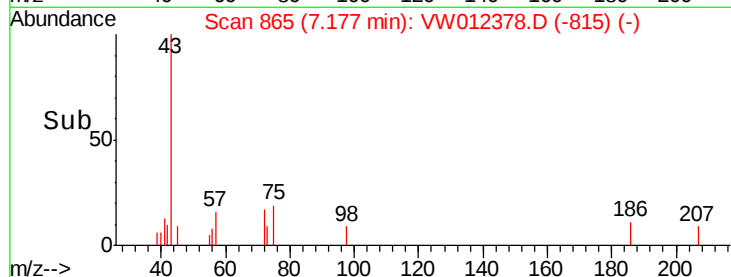
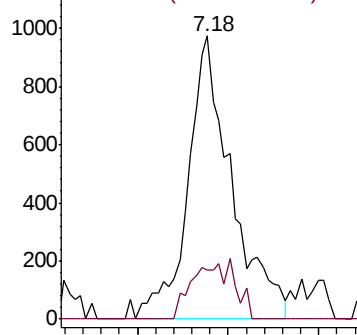
43 100

72 17.3 16.6 24.8

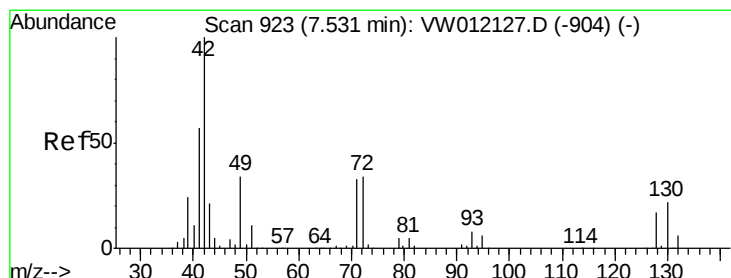


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



Time-->



#29

Tetrahydrofuran

Concen: 8.225 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

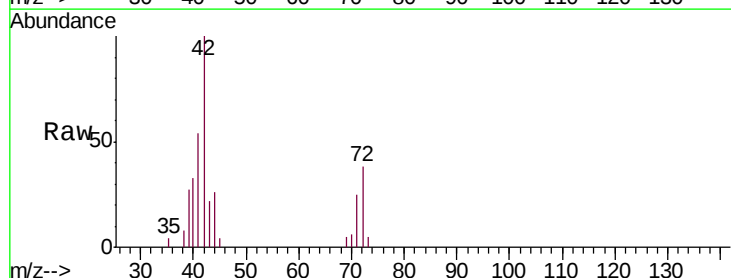
Tgt Ion: 42 Resp: 3864

Ion Ratio Lower Upper

42 100

72 36.9 27.3 40.9

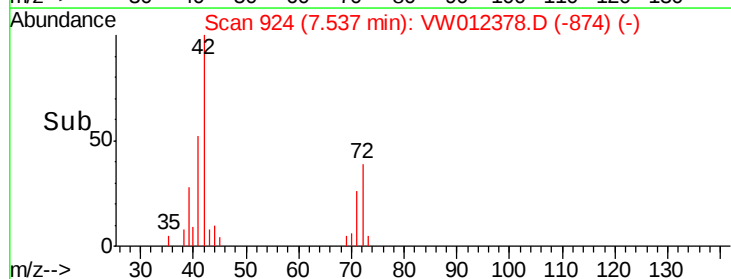
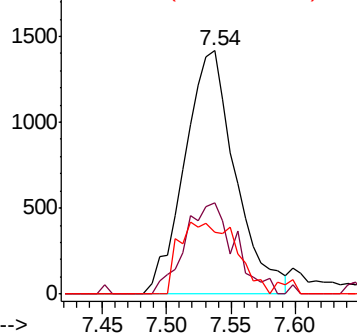
71 33.2 25.5 38.3



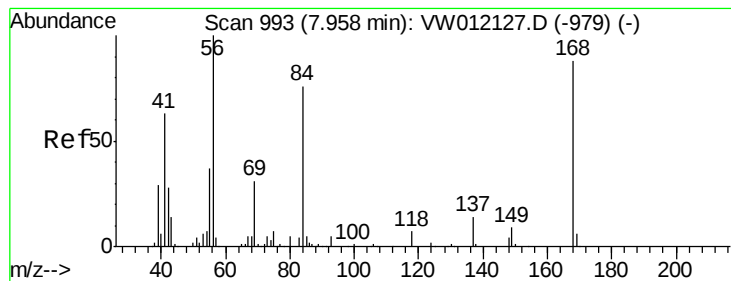
Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



Time-->



#31

Cyclohexane

Concen: 1.228 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampleId :

SB-02-25-27

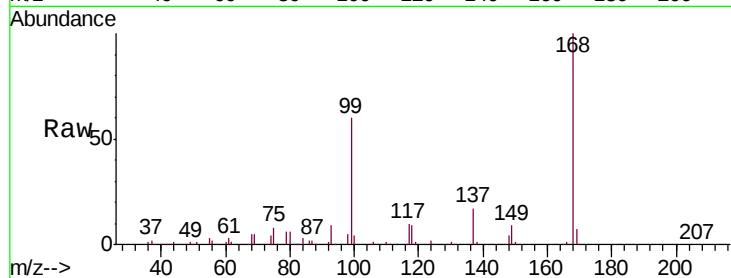
Tgt Ion: 56 Resp: 4987

Ion Ratio Lower Upper

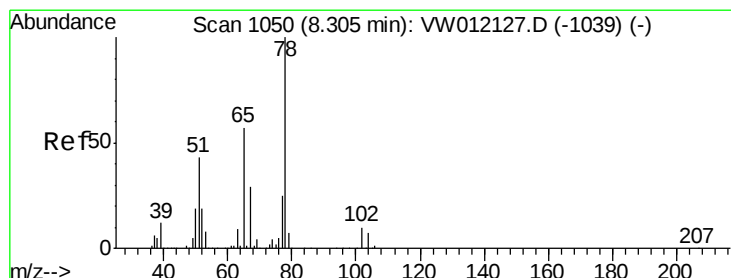
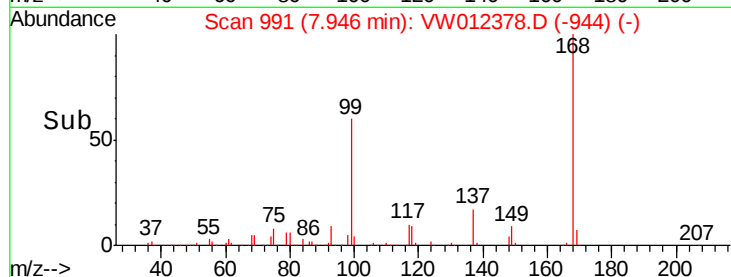
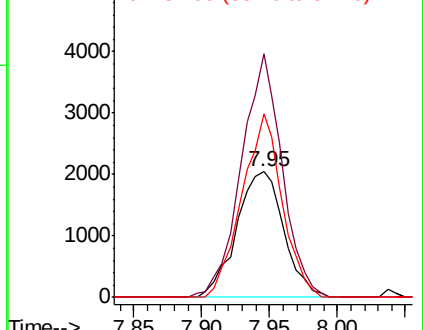
56 100

69 193.7 24.9 37.3#

84 145.6 60.6 90.8#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 57.191 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012378.D

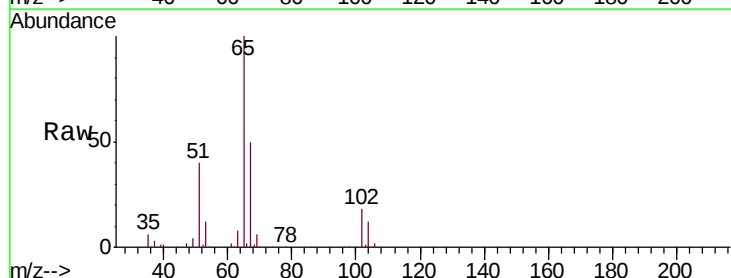
Acq: 31 Aug 2019 04:39

Tgt Ion: 65 Resp: 128929

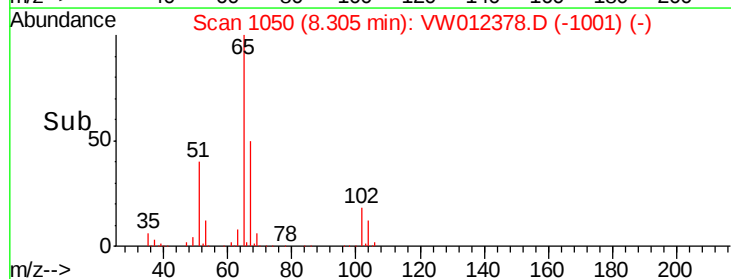
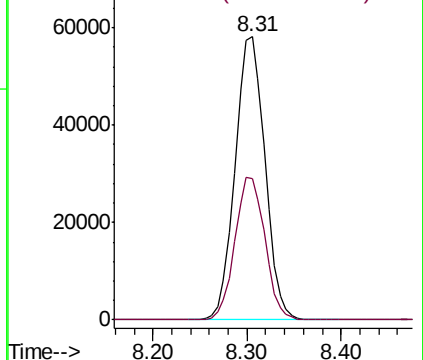
Ion Ratio Lower Upper

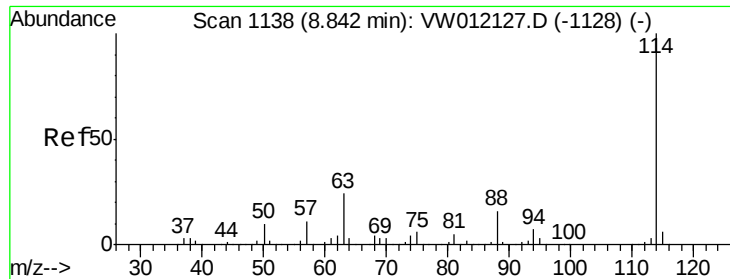
65 100

67 50.6 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

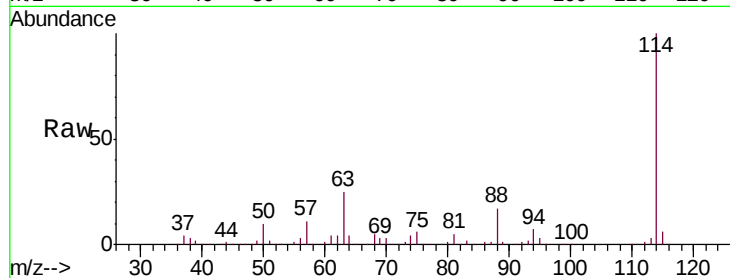




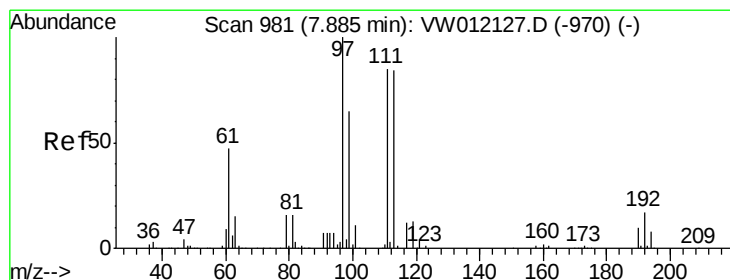
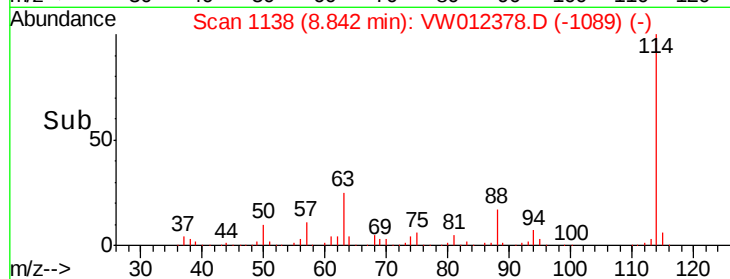
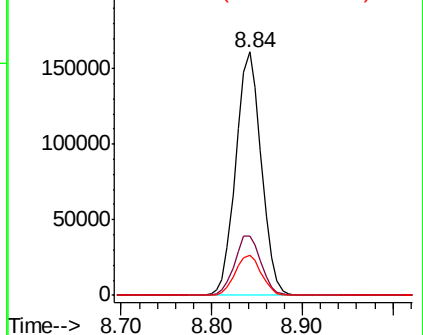
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012378.D
 Acq: 31 Aug 2019 04:39

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-02-25-27

Tgt Ion:114 Resp: 313514
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 48.6
 88 16.6 0.0 32.2

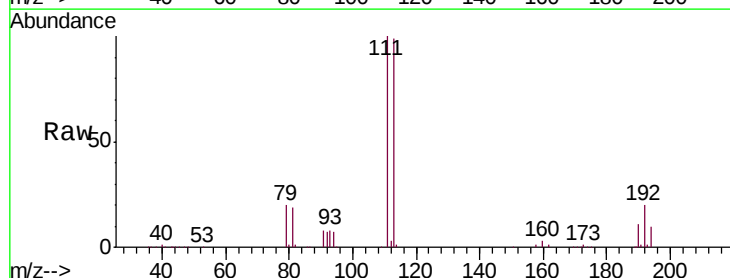


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

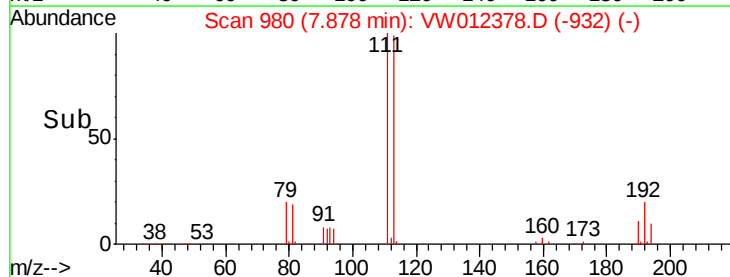
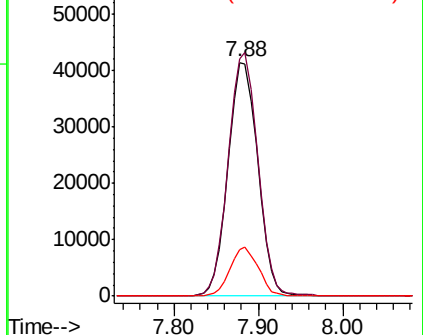


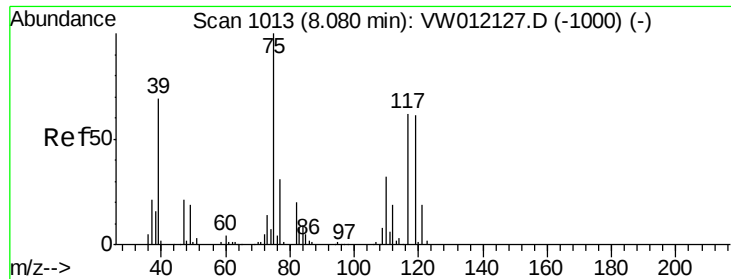
#35
 Dibromofluoromethane
 Concen: 53.085 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012378.D
 Acq: 31 Aug 2019 04:39

Tgt Ion:113 Resp: 99342
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.7 124.1
 192 19.8 16.2 24.2



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

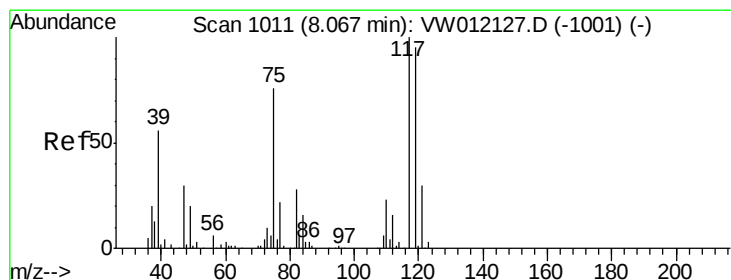
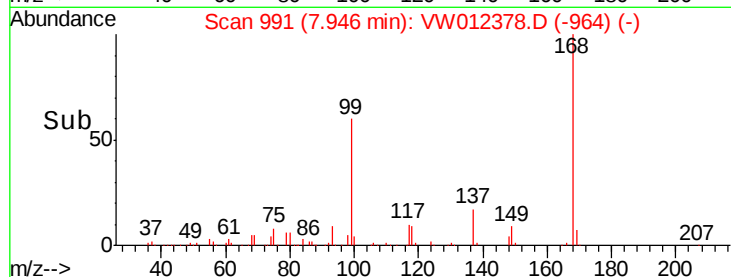
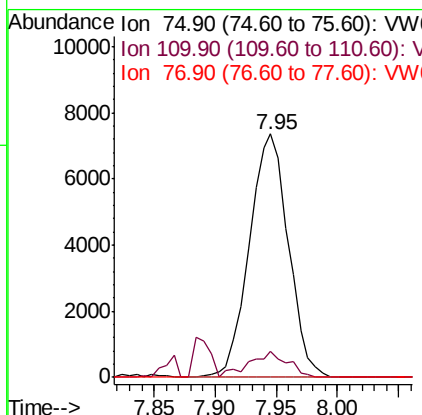
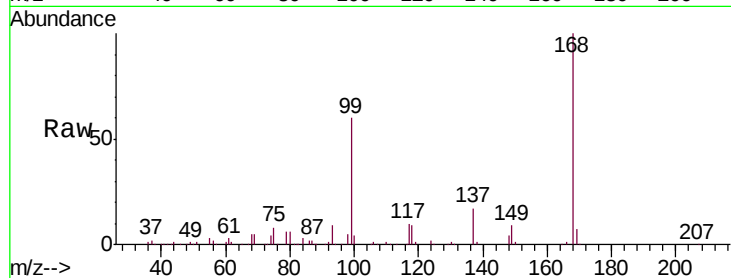




#36
 1,1-Dichloropropene
 Concen: 5.020 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012378.D
 Acq: 31 Aug 2019 04:39

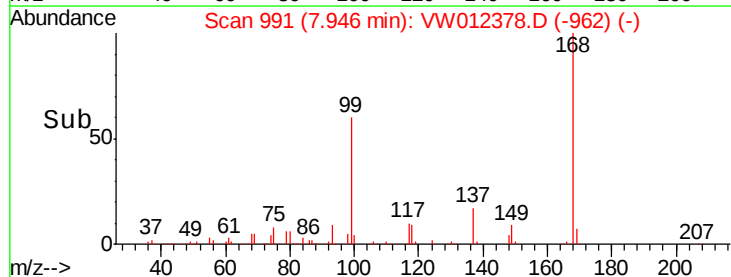
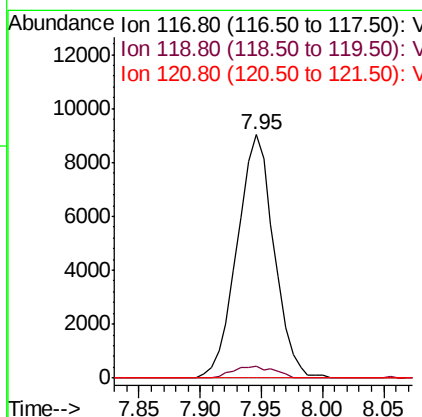
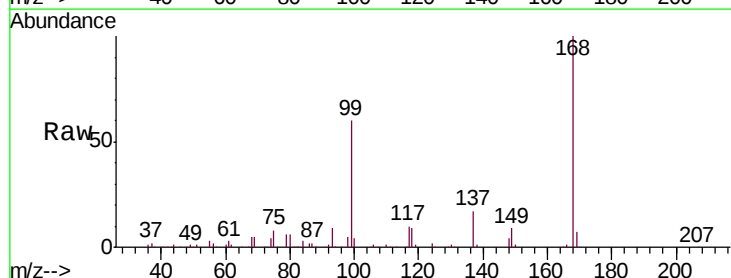
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-02-25-27

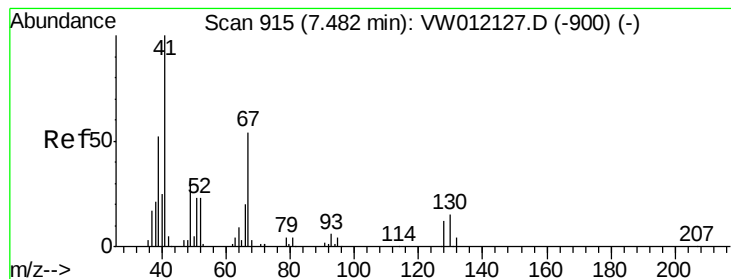
Tgt Ion: 75 Resp: 16264
 Ion Ratio Lower Upper
 75 100
 110 10.1 15.6 46.8#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.749 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012378.D
 Acq: 31 Aug 2019 04:39

Tgt Ion: 117 Resp: 18926
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.2 114.2#
 121 0.0 23.8 35.8#





#41

Methacrylonitrile

Concen: 2.388 ug/l

RT: 7.52 min Scan# 921

Delta R.T. 0.04 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampled :

SB-02-25-27

Tgt Ion: 41 Resp: 2492

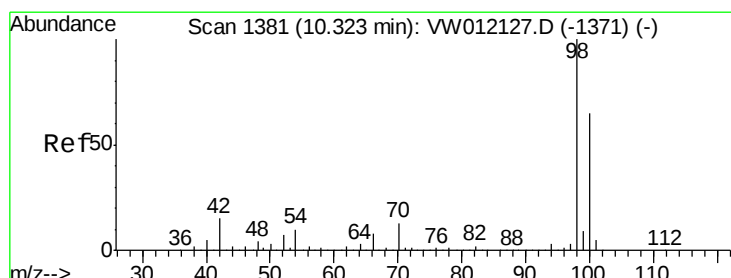
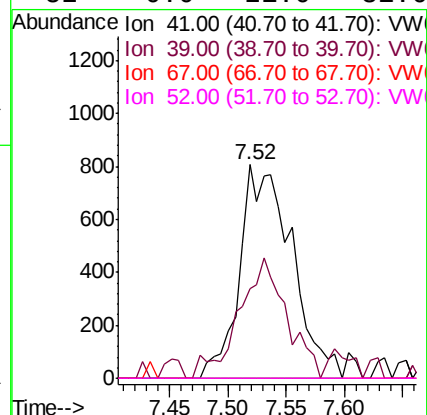
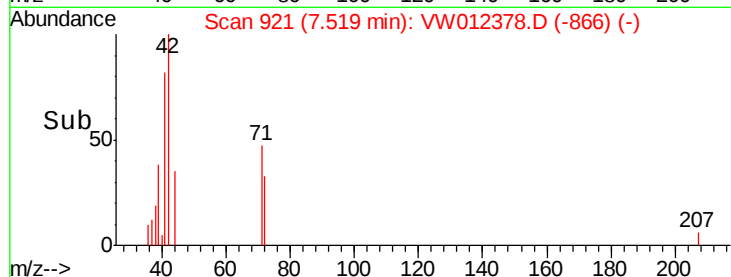
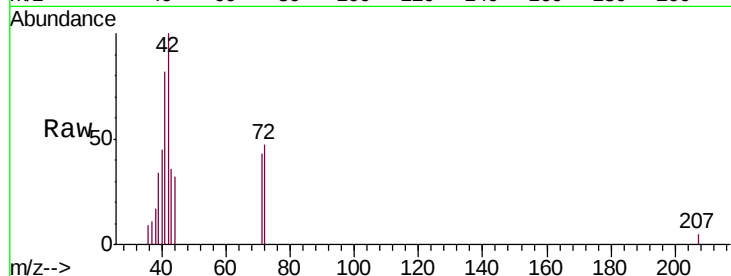
Ion Ratio Lower Upper

41 100

39 52.0 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#



#50

Toluene-d8

Concen: 51.211 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012378.D

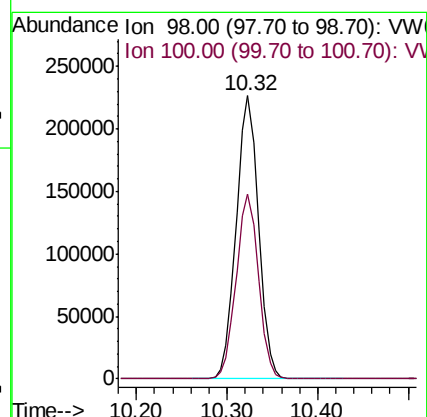
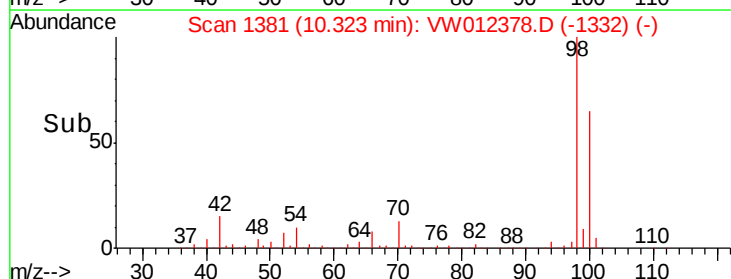
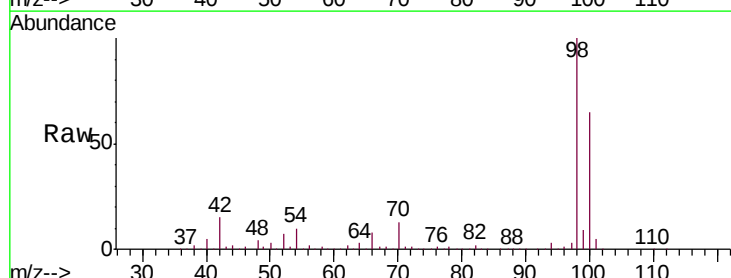
Acq: 31 Aug 2019 04:39

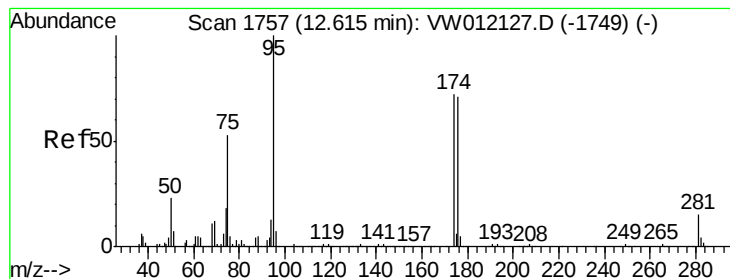
Tgt Ion: 98 Resp: 388585

Ion Ratio Lower Upper

98 100

100 65.0 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 45.325 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampleId :

SB-02-25-27

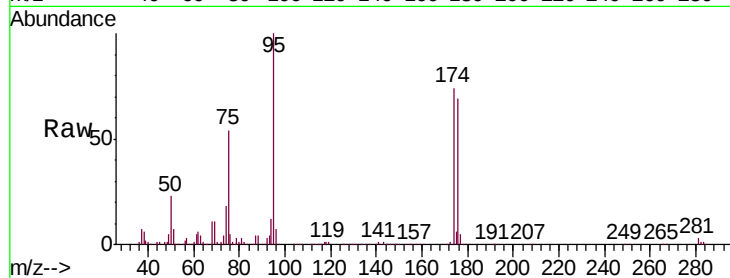
Tgt Ion: 95 Resp: 121233

Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.8

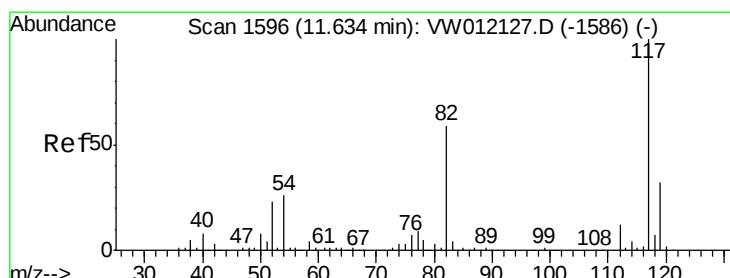
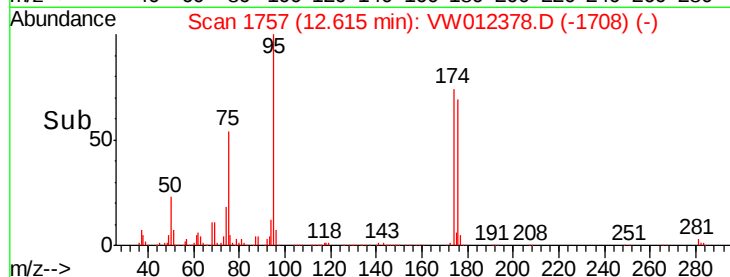
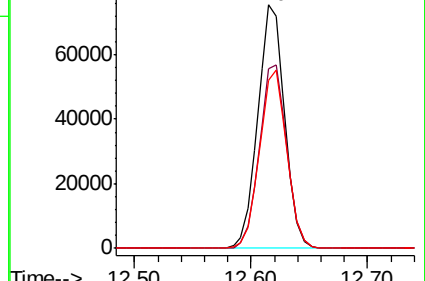
176 74.4 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW012378.D

Acq: 31 Aug 2019 04:39

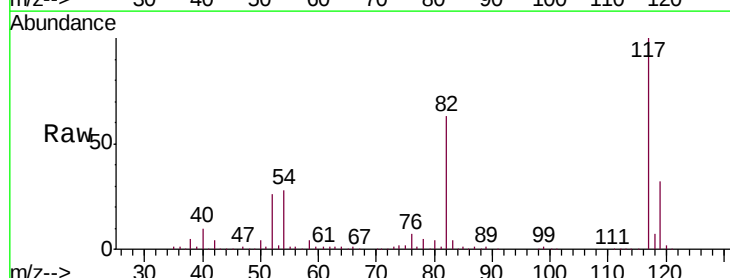
Tgt Ion: 117 Resp: 262603

Ion Ratio Lower Upper

117 100

82 63.0 47.4 71.2

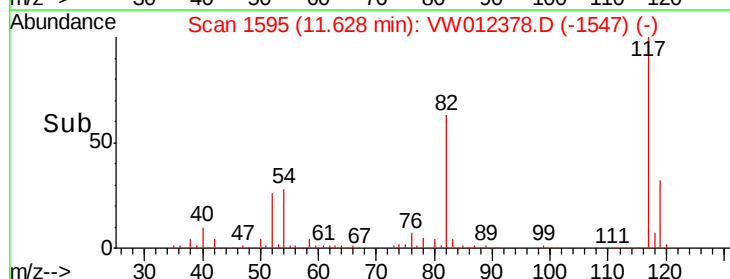
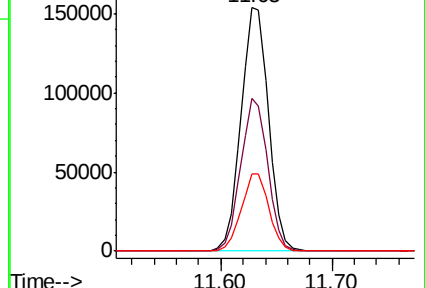
119 31.6 25.4 38.2

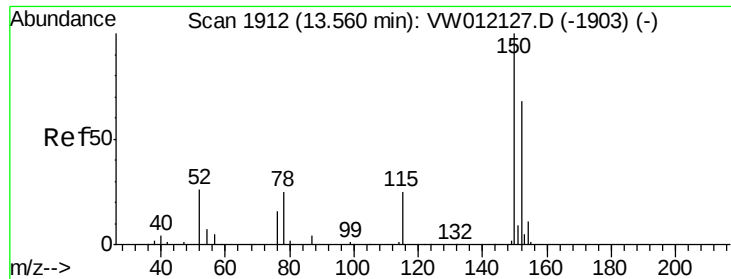


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



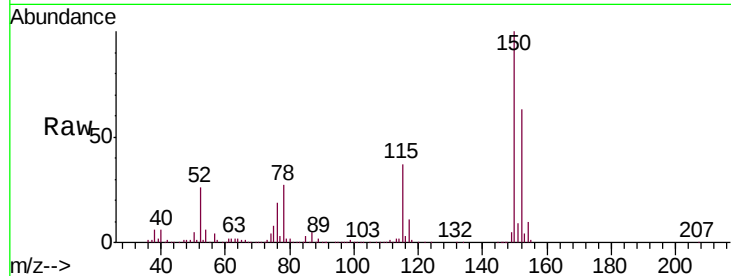


#72

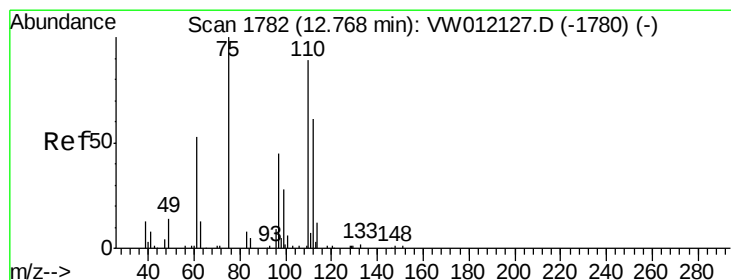
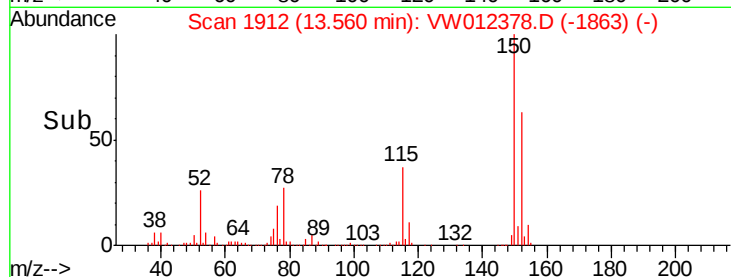
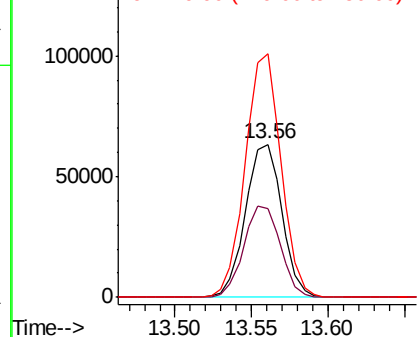
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012378.D
Acq: 31 Aug 2019 04:39

Instrument :
MSVOA_W
ClientSampled :
SB-02-25-27

Tgt Ion:152 Resp: 104986
Ion Ratio Lower Upper
152 100
115 60.4 30.1 90.3
150 156.2 0.0 345.8



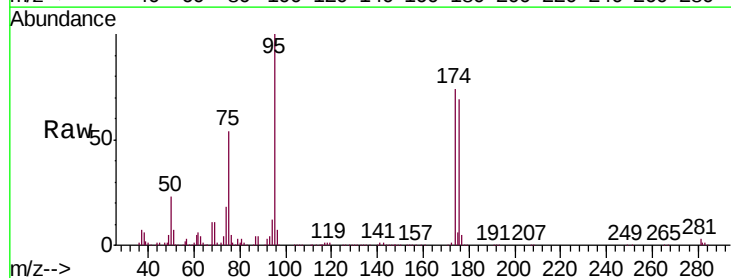
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



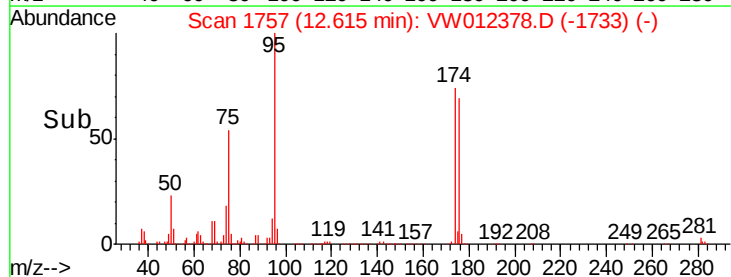
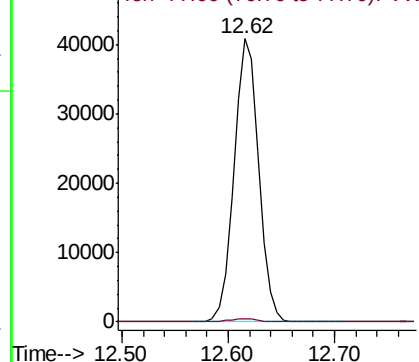
#76

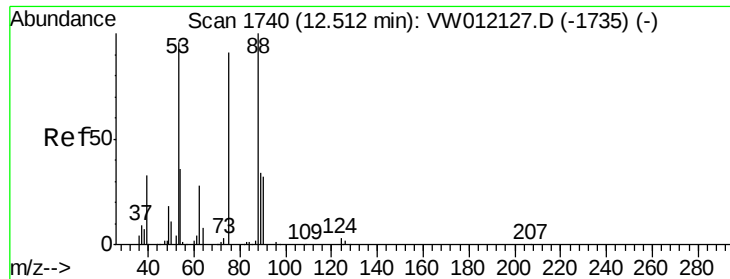
1,2,3-Trichloropropane
Concen: 64.773 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW012378.D
Acq: 31 Aug 2019 04:39

Tgt Ion: 75 Resp: 66230
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



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

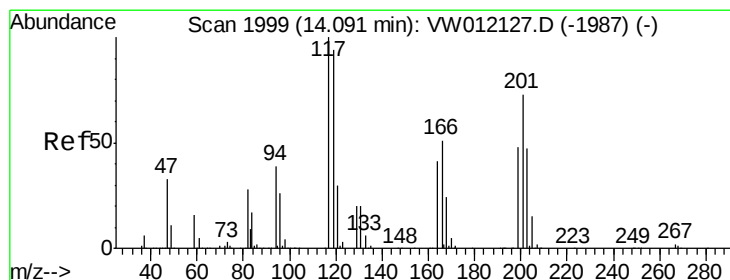
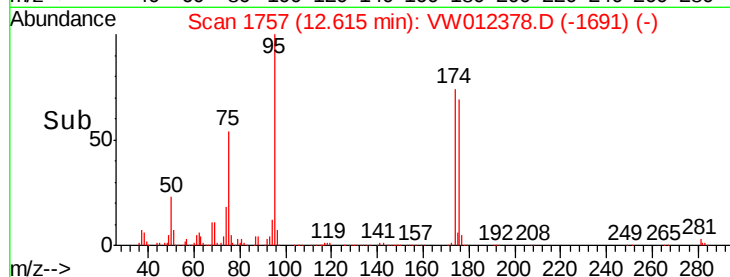
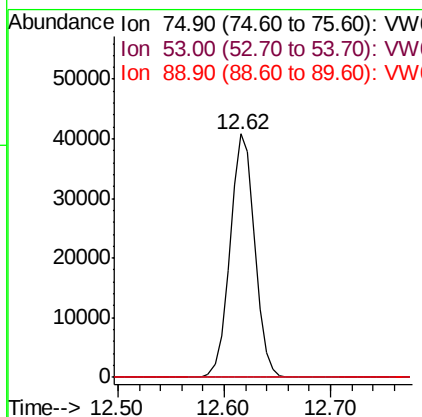
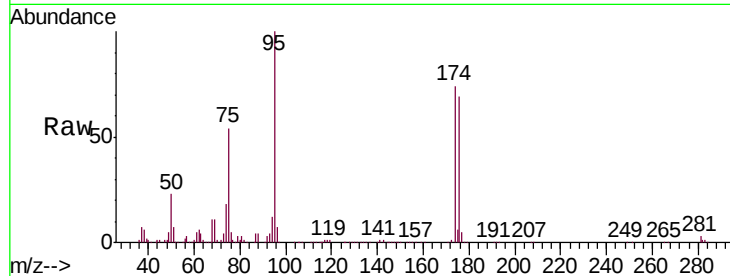




#81
trans-1,4-Dichloro-2-butene
Concen: 142.018 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012378.D
Acq: 31 Aug 2019 04:39

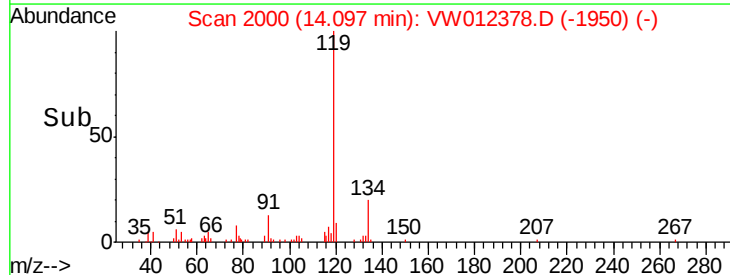
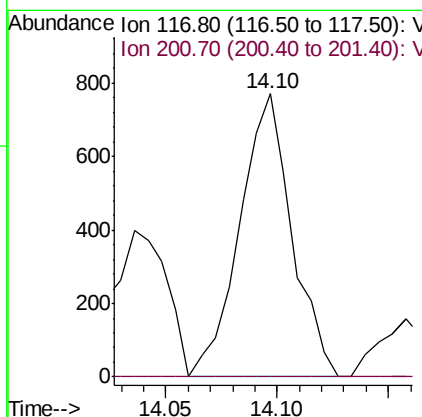
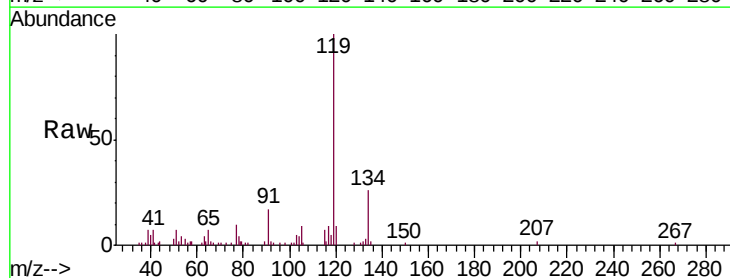
Instrument :
MSVOA_W
ClientSampleId :
SB-02-25-27

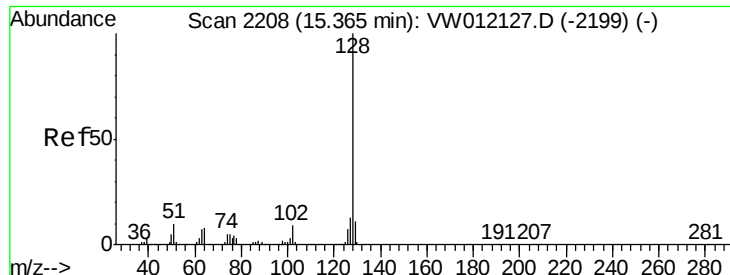
Tgt Ion: 75 Resp: 66230
Ion Ratio Lower Upper
75 100
53 0.1 89.4 134.0#
89 0.0 34.5 51.7#



#90
Hexachloroethane
Concen: 1.003 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.01 min
Lab File: VW012378.D
Acq: 31 Aug 2019 04:39

Tgt Ion: 117 Resp: 1254
Ion Ratio Lower Upper
117 100
201 0.0 38.6 115.7#





#95

Naphthalene

Concen: 6.010 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012378.D

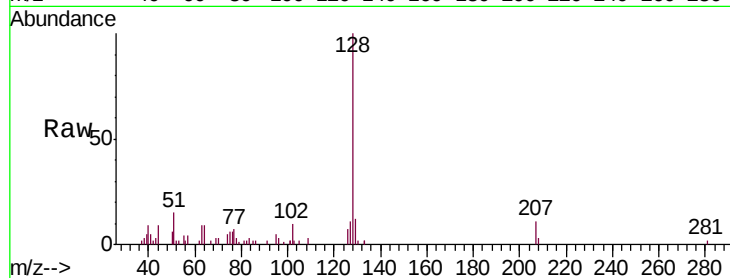
Acq: 31 Aug 2019 04:39

Instrument :

MSVOA_W

ClientSampleId :

SB-02-25-27



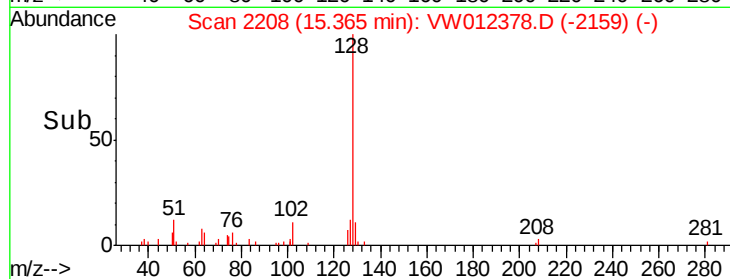
Tgt Ion:128 Resp: 7320

Ion Ratio Lower Upper

128 100

127 13.8 10.7 16.1

129 10.5 8.7 13.1



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

