

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091019\
 Data File : VW012866.D
 Acq On : 10 Sep 2019 13:24
 Operator : SY/VA
 Sample : K4668-01
 Misc : 8.02G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-04-090319

Quant Time: Sep 10 15:03:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
 Quant Title : SW846 8260
 QLast Update : Sun Sep 08 05:04:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	216662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	333321	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	247741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	82157	50.00	ug/l	0.00

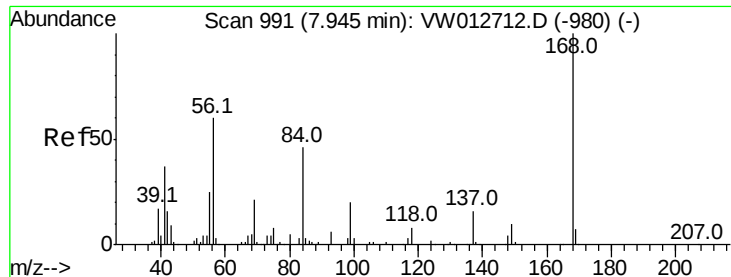
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	115805	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
35) Dibromofluoromethane	7.88	113	97497	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
50) Toluene-d8	10.32	98	373879	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
62) 4-Bromofluorobenzene	12.62	95	103369	36.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.36%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.68	74	2875	2.832	ug/l	89
16) Acetone	4.12	43	30151	45.686	ug/l	98
20) Methylene Chloride	4.91	84	15946	7.723	ug/l	92
25) 2-Butanone	7.17	43	176	19.847	ug/l #	53
29) Tetrahydrofuran	7.53	42	3766	7.066	ug/l #	88
31) Cyclohexane	7.94	56	4867	1.368	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	16946	5.722	ug/l #	51
38) Carbon Tetrachloride	7.94	117	20513	7.026	ug/l #	16
41) Methacrylonitrile	7.52	41	2442	5.595	ug/l #	39
68) m/p-Xylenes	11.84	106	9080	2.863	ug/l	96
69) o-Xylene	12.16	106	9854	3.294	ug/l	98
73) Isopropylbenzene	12.46	105	6716	1.140	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	55786	66.405	ug/l #	100
78) n-propylbenzene	12.80	91	33873	4.806	ug/l	99
79) 2-Chlorotoluene	12.90	91	4208	1.040	ug/l #	43
80) 1,3,5-Trimethylbenzene	12.94	105	43991	8.860	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	55786	140.450	ug/l #	7
82) 4-Chlorotoluene	12.94	91	4509	1.054	ug/l #	43
83) tert-Butylbenzene	13.25	119	22039	5.020	ug/l #	74
84) 1,2,4-Trimethylbenzene	13.25	105	166490	33.277	ug/l	98
85) sec-Butylbenzene	13.38	105	20168	3.310	ug/l	92
86) p-Isopropyltoluene	13.50	119	12082	2.171	ug/l	98
89) n-Butylbenzene	13.82	91	40067	7.417	ug/l #	73
90) Hexachloroethane	14.10	117	6335	6.521	ug/l #	7
95) Naphthalene	15.36	128	9599	6.977	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW012866.D

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MSVOA_W

ClientSampleId :

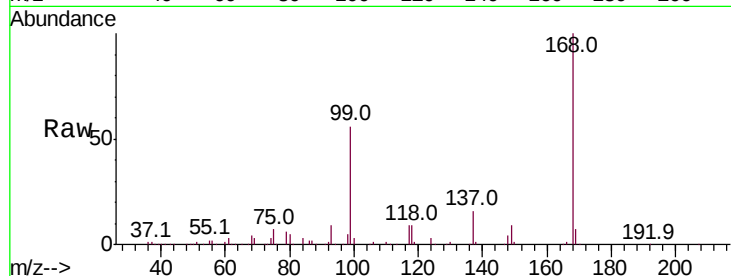
SU-04-090319

Tot Ion:168 Resp: 216662

Ion Ratio Lower Upper

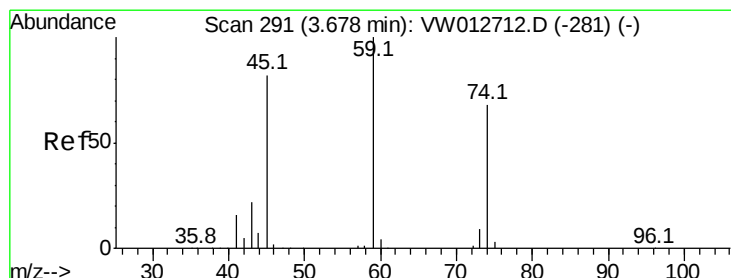
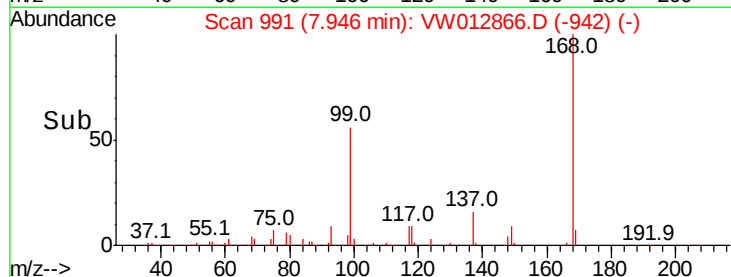
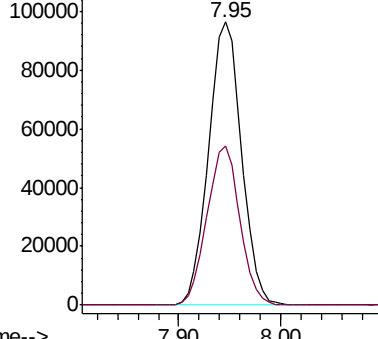
168 100

99 56.2 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.832 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW012866.D

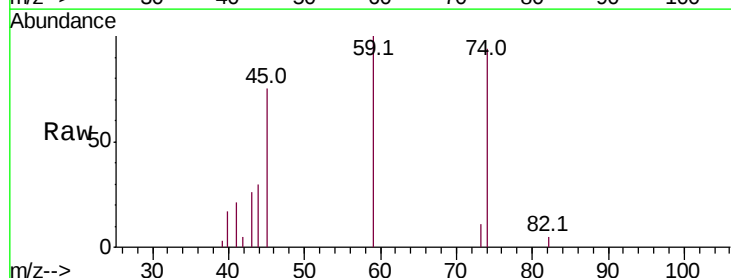
Acq: 10 Sep 2019 13:24

Tgt Ion: 74 Resp: 2875

Ion Ratio Lower Upper

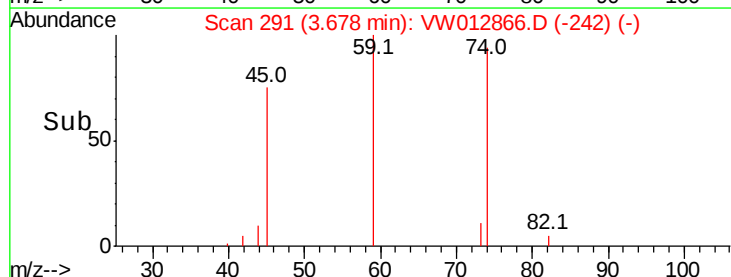
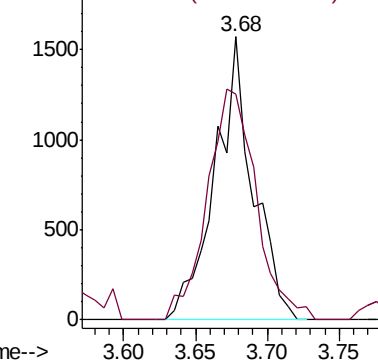
74 100

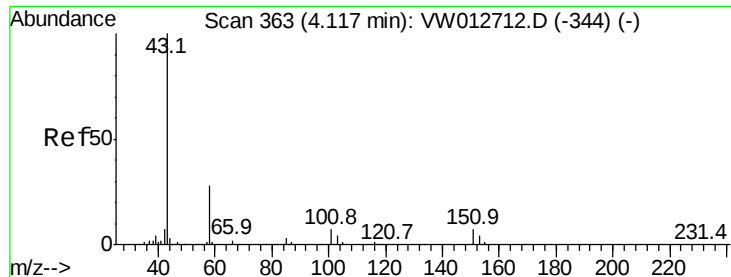
45 105.0 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

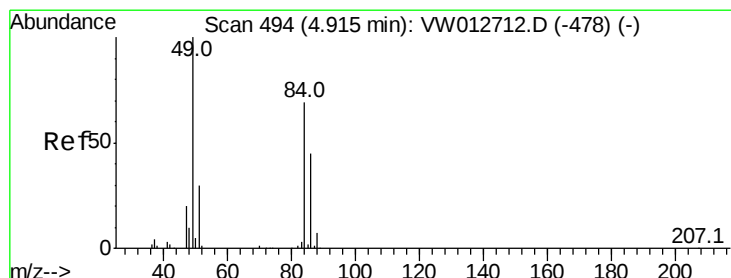
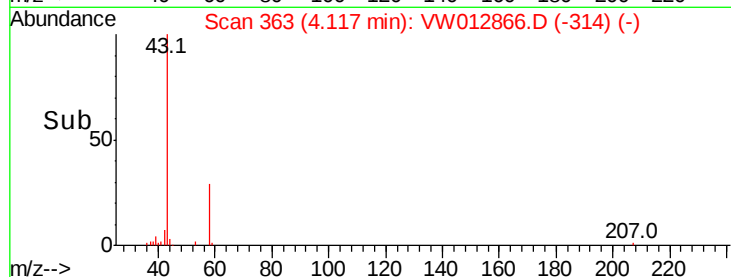
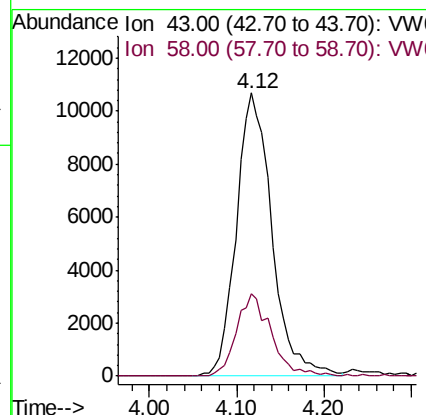
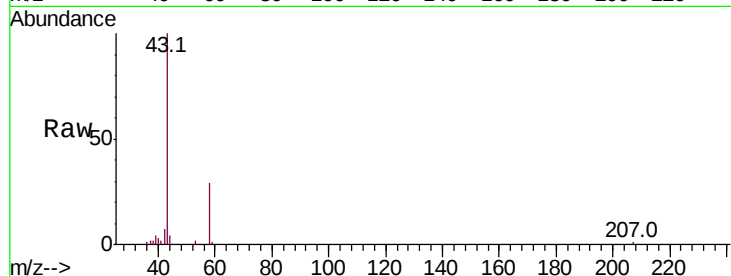




#16
Acetone
Concen: 45.686 ug/l
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

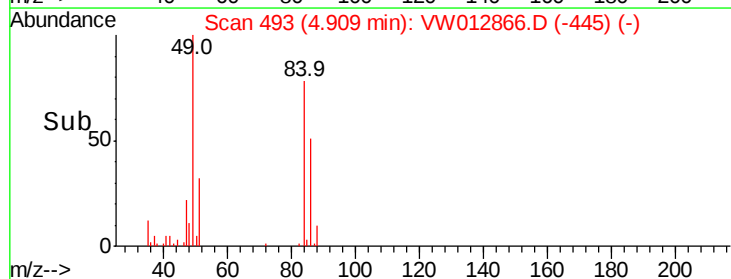
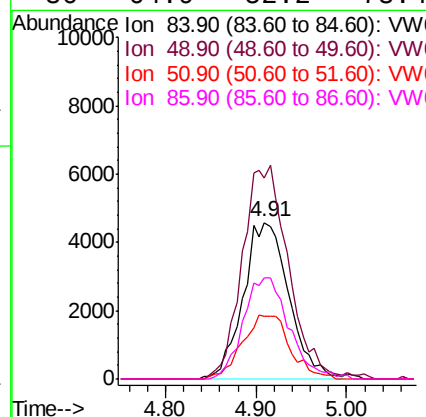
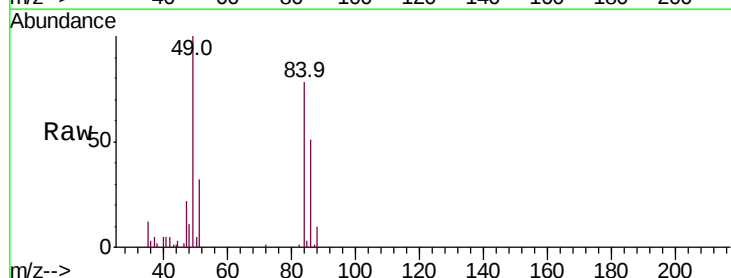
Instrument :
MSVOA_W
ClientSampleId :
SU-04-090319

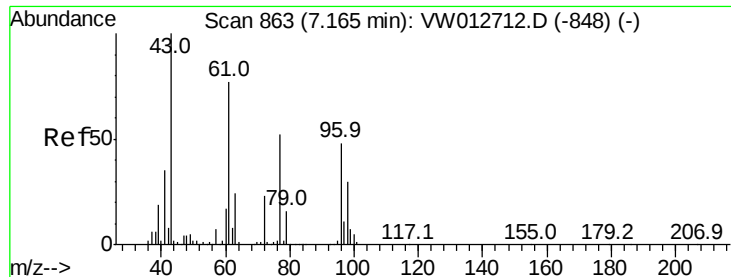
Tot Ion: 43 Resp: 30151
Ion Ratio Lower Upper
43 100
58 29.3 22.6 33.8



#20
Methylene Chloride
Concen: 7.723 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion: 84 Resp: 15946
Ion Ratio Lower Upper
84 100
49 128.4 115.4 173.0
51 40.4 34.9 52.3
86 64.9 52.2 78.4





#25

2-Butanone

Concen: 19.847 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampleId :

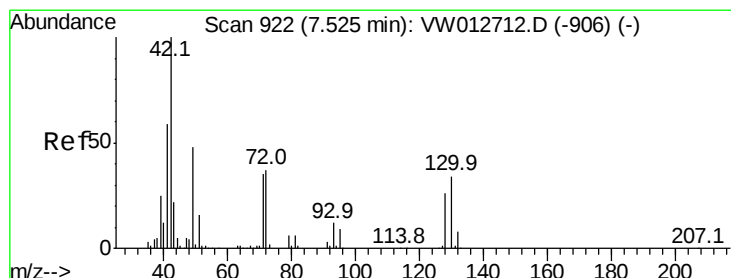
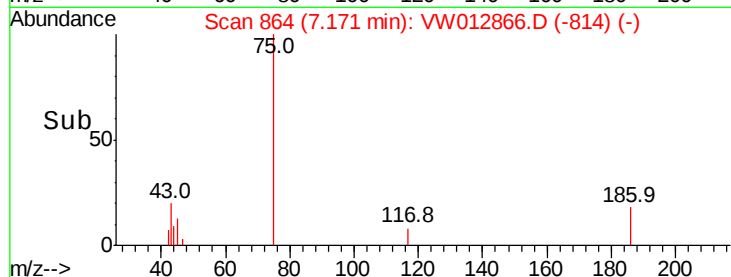
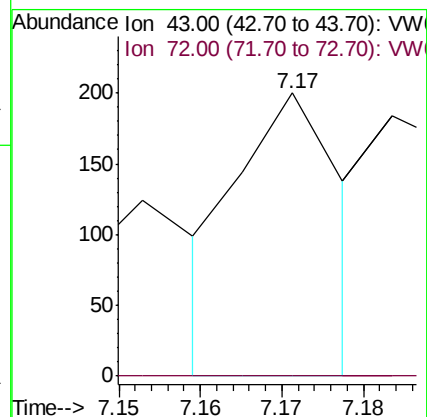
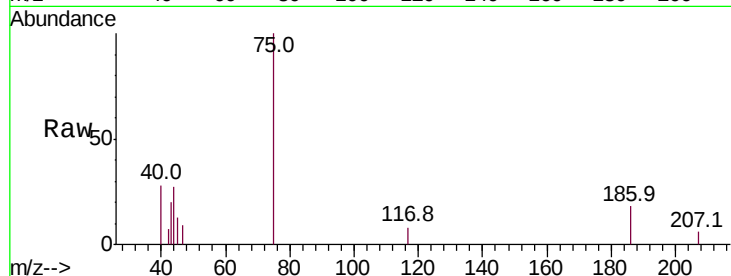
SU-04-090319

Tot Ion: 43 Resp: 176

Ion Ratio Lower Upper

43 100

72 0.0 18.0 27.0#



#29

Tetrahydrofuran

Concen: 7.066 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

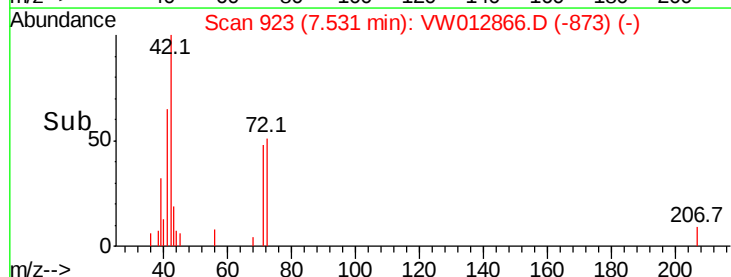
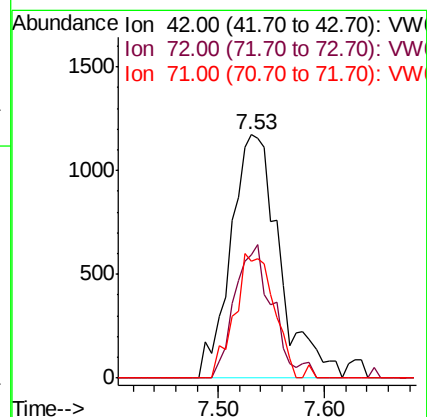
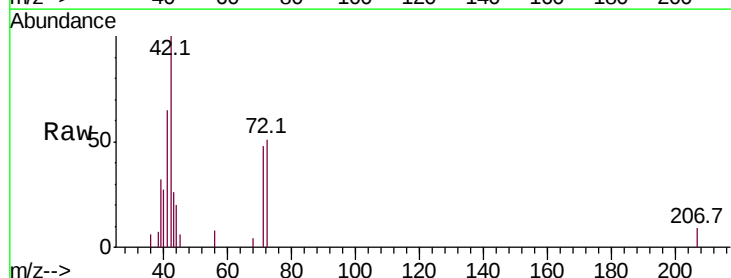
Tgt Ion: 42 Resp: 3766

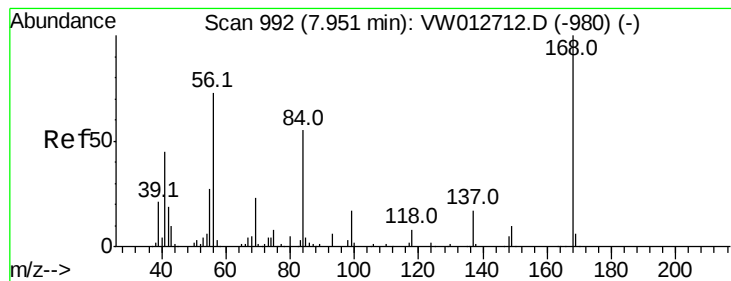
Ion Ratio Lower Upper

42 100

72 42.8 28.4 42.6#

71 41.0 27.1 40.7#





#31

Cyclohexane

Concen: 1.368 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampled :

SU-04-090319

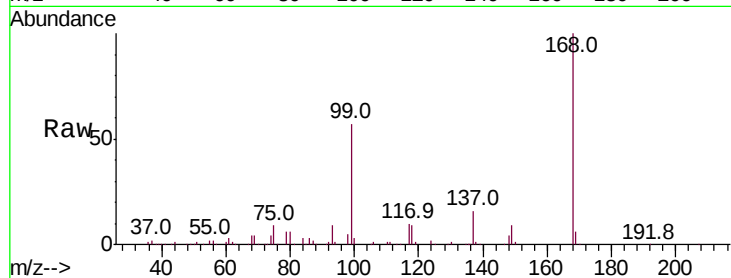
Tot Ion: 56 Resp: 4867

Ion Ratio Lower Upper

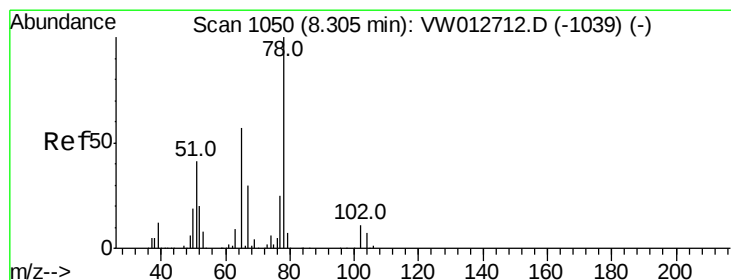
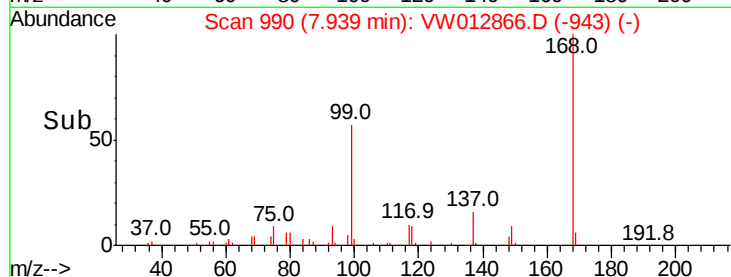
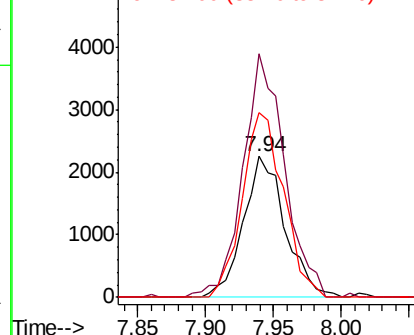
56 100

69 172.7 25.7 38.5#

84 130.6 60.4 90.6#



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: 47.837 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012866.D

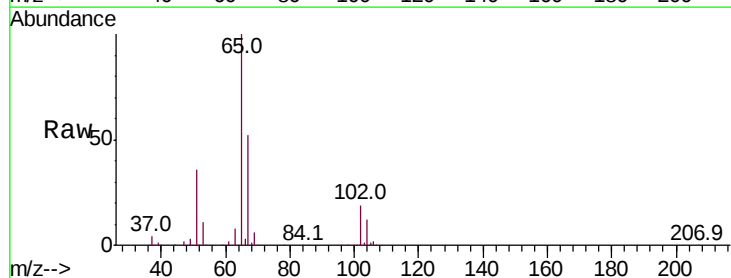
Acq: 10 Sep 2019 13:24

Tgt Ion: 65 Resp: 115805

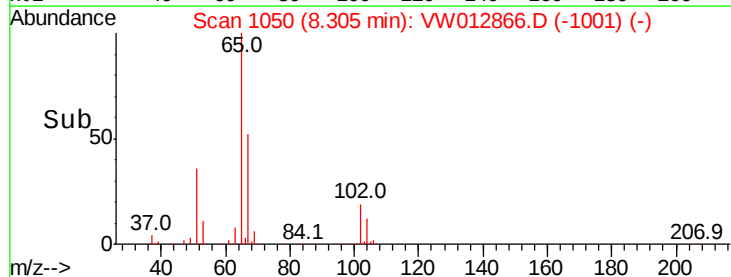
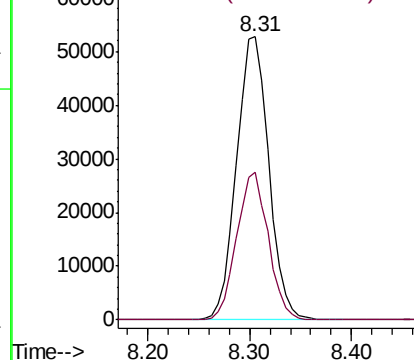
Ion Ratio Lower Upper

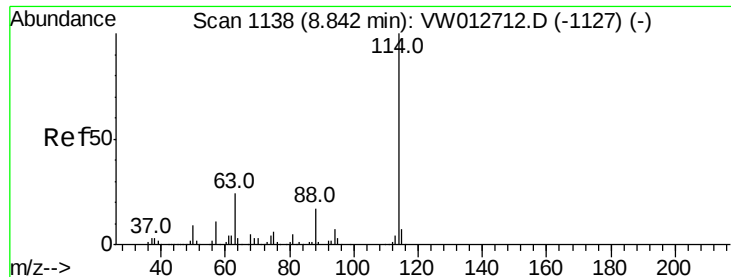
65 100

67 50.8 0.0 101.8



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

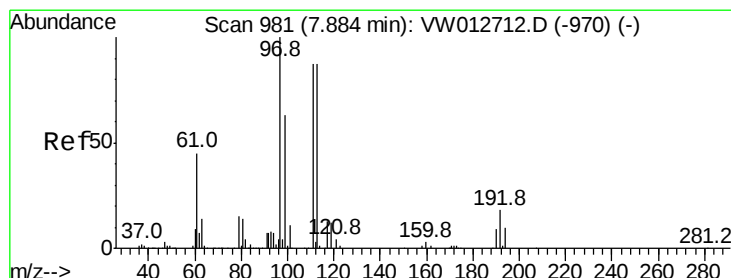
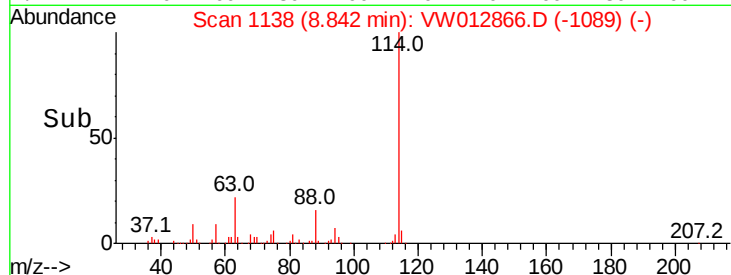
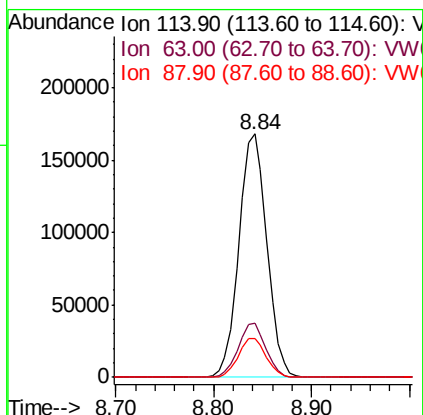
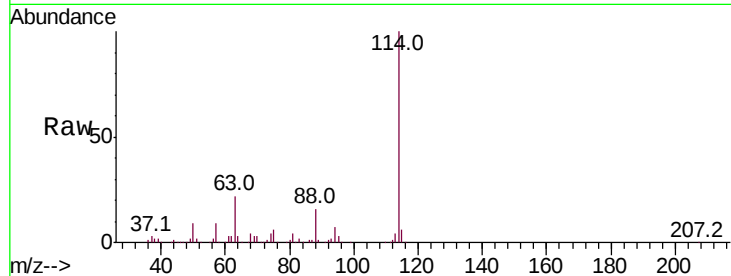




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

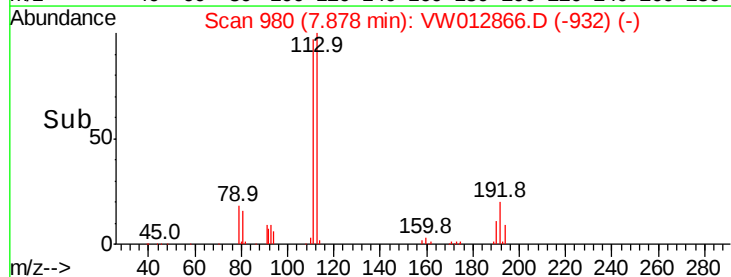
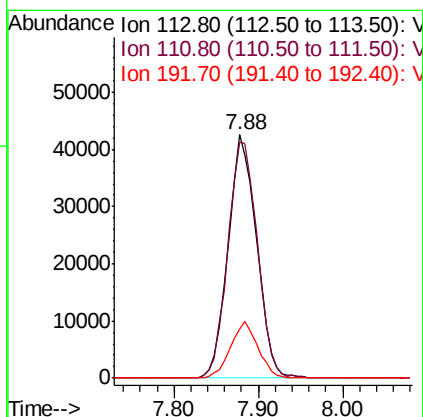
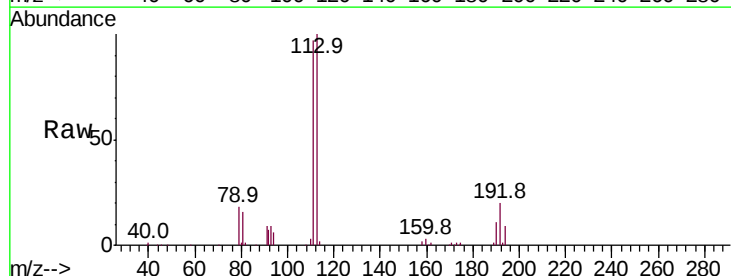
Instrument :
MSVOA_W
ClientSampleId :
SU-04-090319

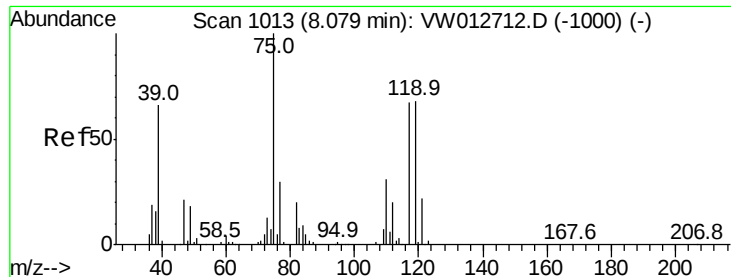
Tot Ion:114 Resp: 333321
Ion Ratio Lower Upper
114 100
63 22.3 0.0 47.2
88 15.8 0.0 34.0



#35
Dibromofluoromethane
Concen: 49.199 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.01 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion:113 Resp: 97497
Ion Ratio Lower Upper
113 100
111 101.1 80.2 120.4
192 22.4 17.3 25.9





#36

1,1-Dichloropropene

Concen: 5.722 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampleId :

SU-04-090319

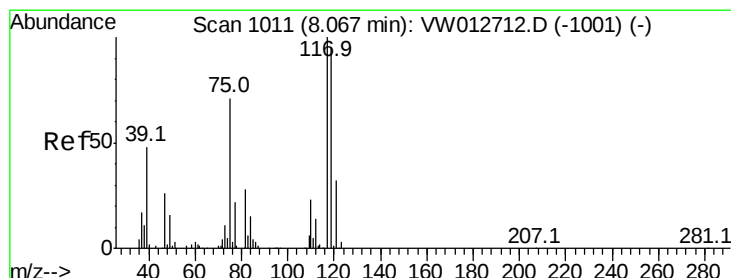
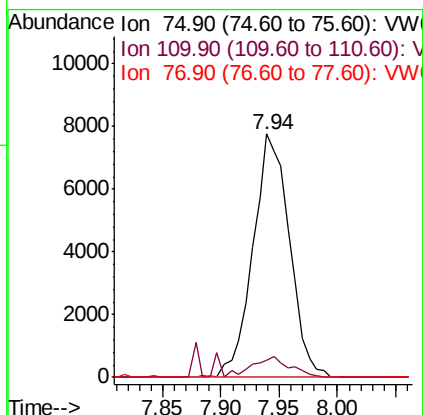
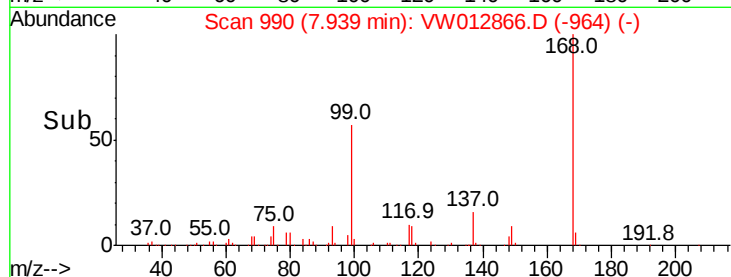
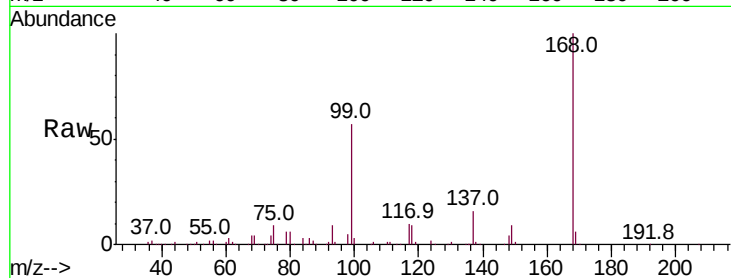
Tot Ion: 75 Resp: 16946

Ion Ratio Lower Upper

75 100

110 8.2 15.9 47.7#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 7.026 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

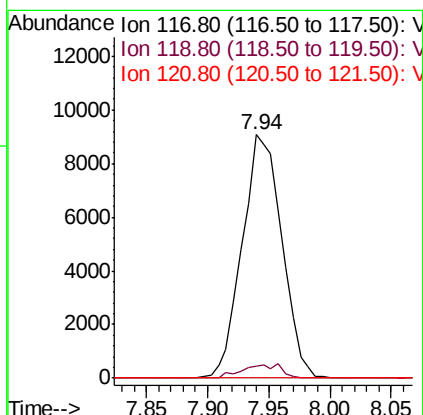
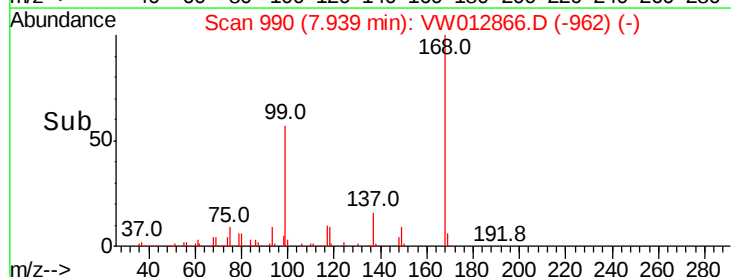
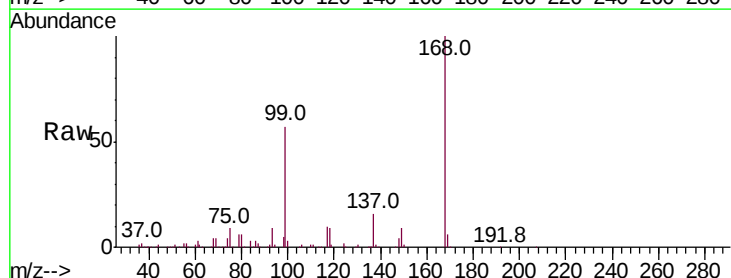
Tgt Ion: 117 Resp: 20513

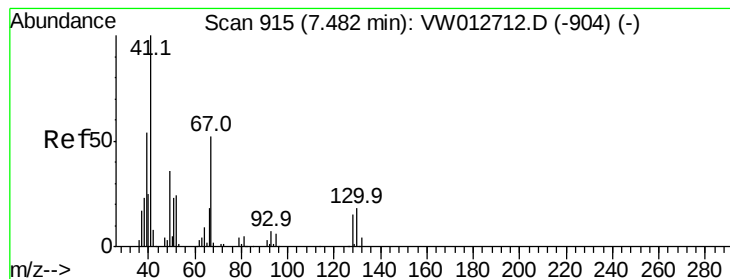
Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

121 0.0 25.4 38.2#





#41

Methacrylonitrile

Concen: 5.595 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.04 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampleId :

SU-04-090319

Tot Ion: 41 Resp: 2442

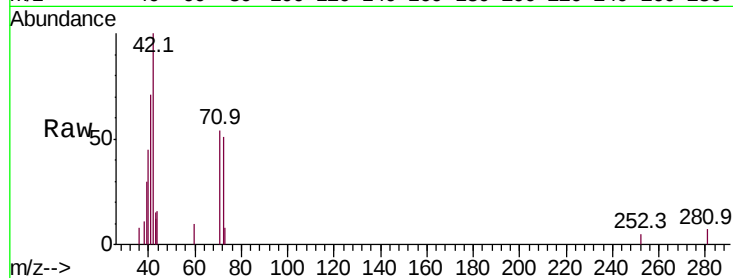
Ion Ratio Lower Upper

41 100

39 22.0 47.5 71.3#

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

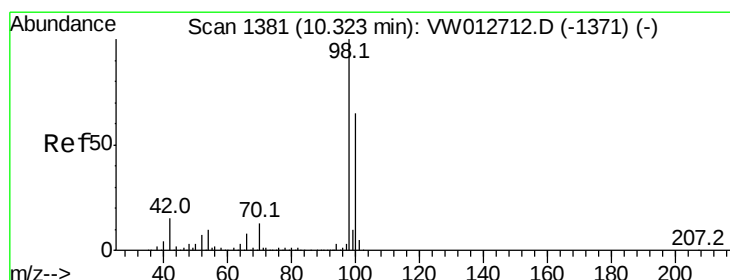
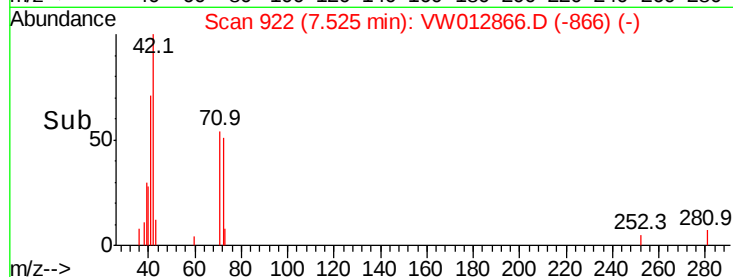
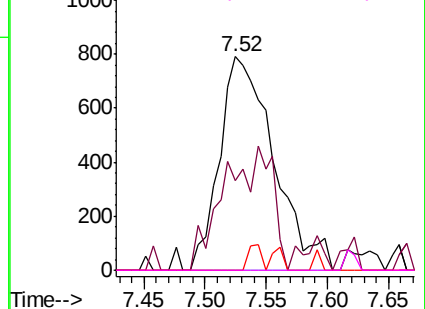


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 48.157 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012866.D

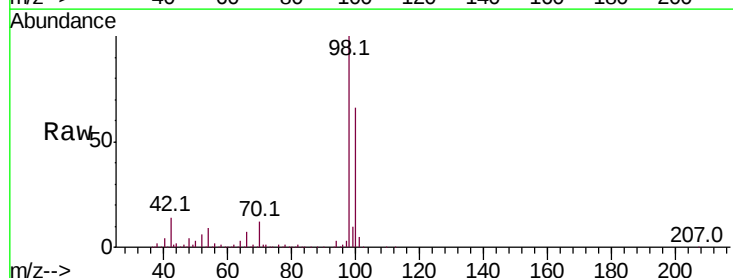
Acq: 10 Sep 2019 13:24

Tgt Ion: 98 Resp: 373879

Ion Ratio Lower Upper

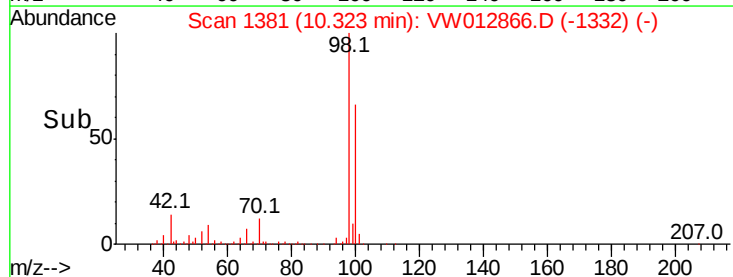
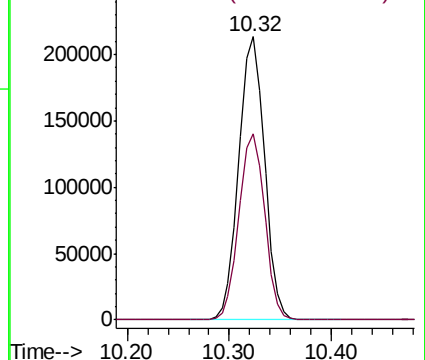
98 100

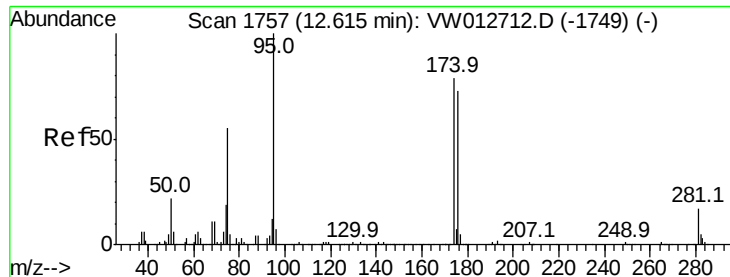
100 65.7 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

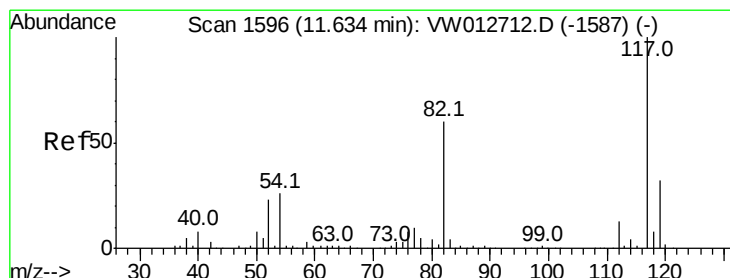
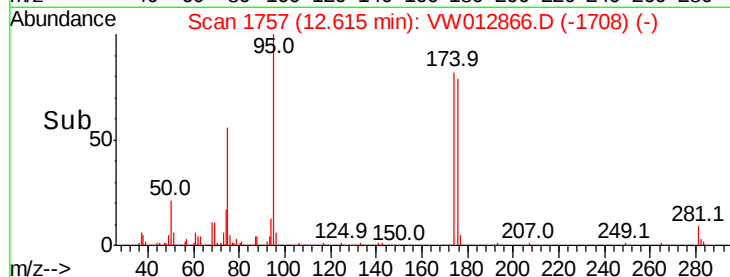
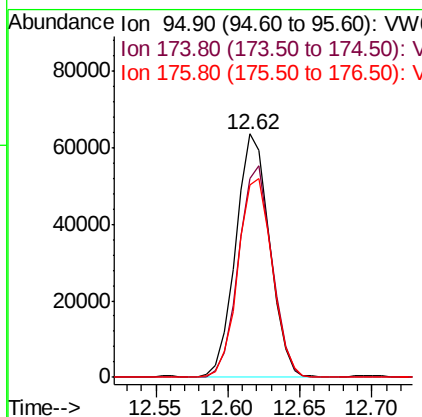
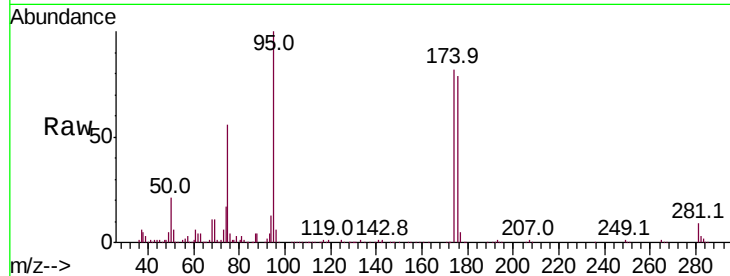




#62
4-Bromofluorobenzene
Concen: 36.675 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

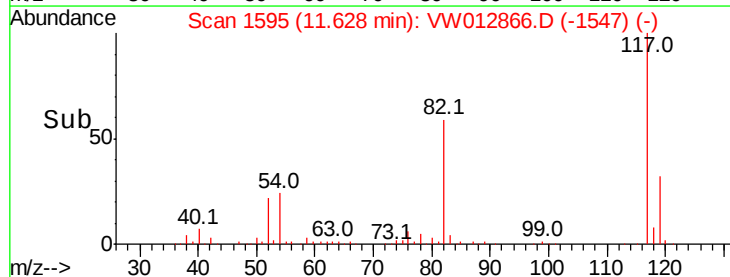
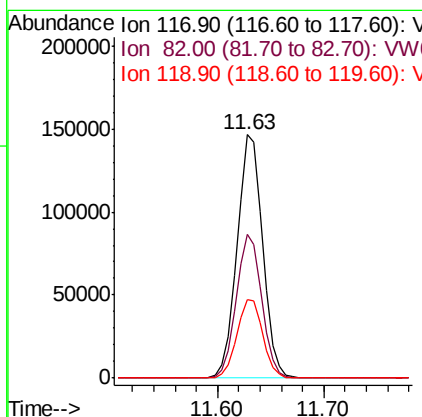
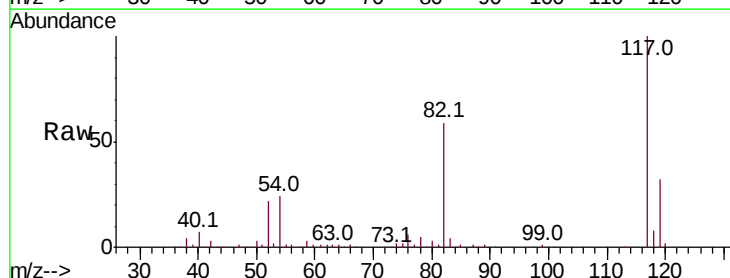
Instrument :
MSVOA_W
ClientSampleId :
SU-04-090319

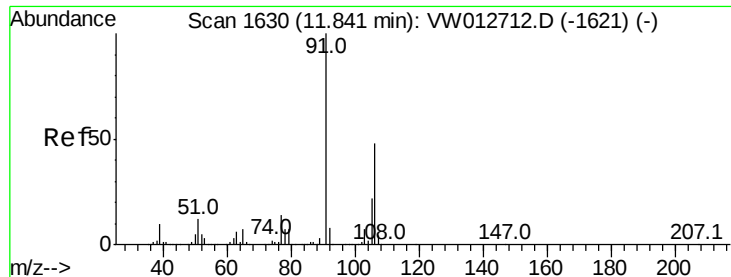
Tot Ion: 95 Resp: 103369
Ion Ratio Lower Upper
95 100
174 85.7 0.0 161.0
176 83.0 0.0 156.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion: 117 Resp: 247741
Ion Ratio Lower Upper
117 100
82 58.8 48.2 72.4
119 32.1 25.8 38.6

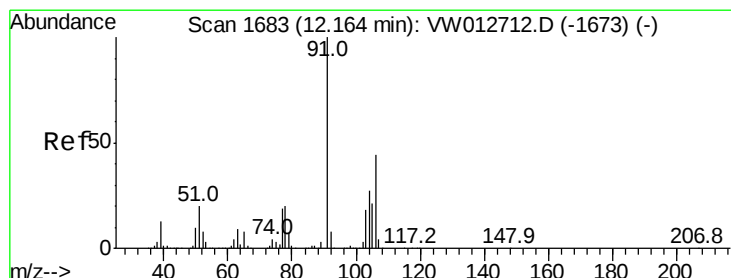
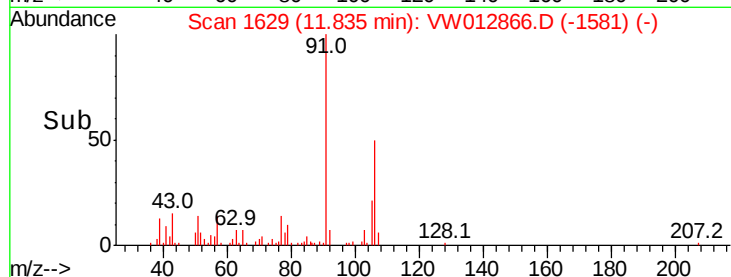
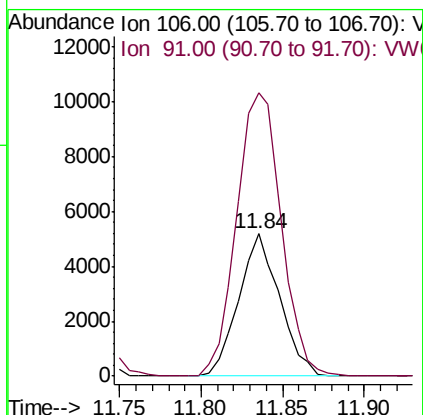
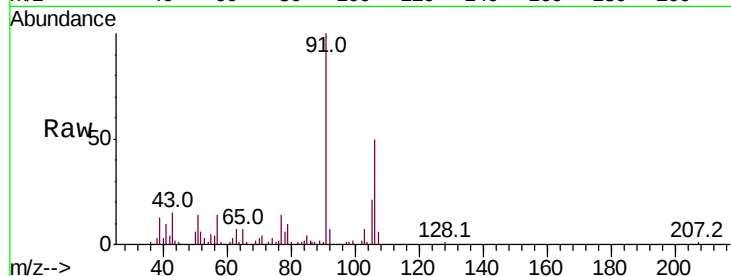




#68
m/p-Xylenes
Concen: 2.863 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

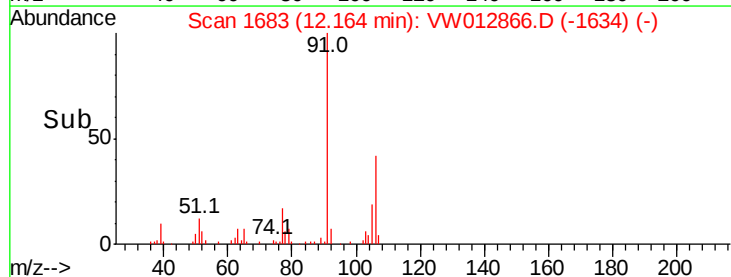
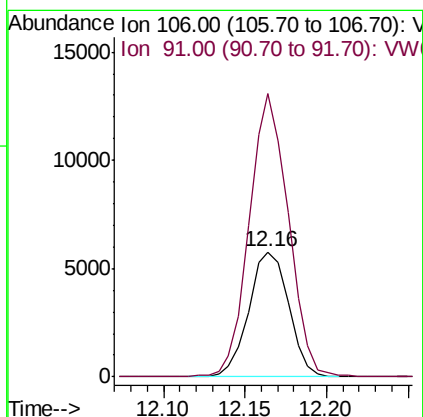
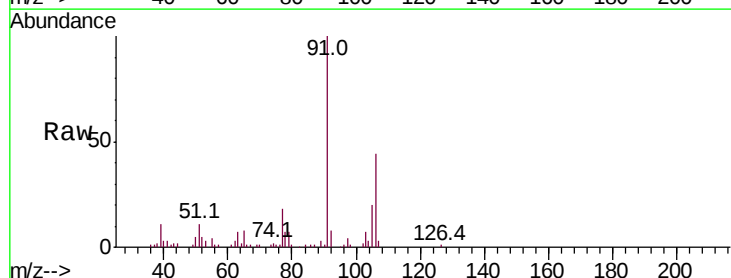
Instrument :
MSVOA_W
ClientSampleId :
SU-04-090319

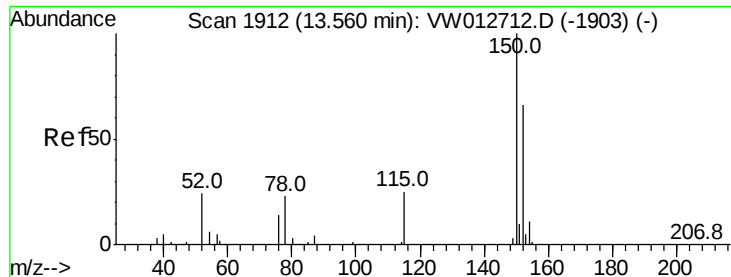
Tot Ion:106 Resp: 9080
Ion Ratio Lower Upper
106 100
91 216.8 168.2 252.4



#69
o-Xylene
Concen: 3.294 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion:106 Resp: 9854
Ion Ratio Lower Upper
106 100
91 221.4 112.3 336.8



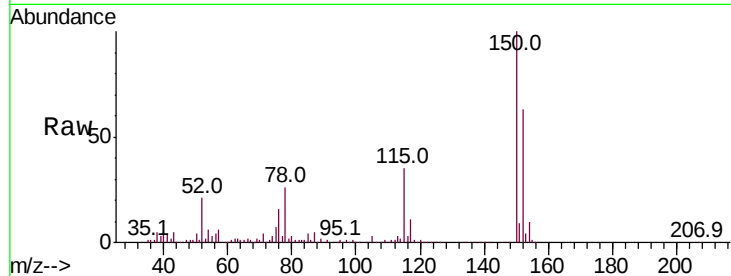


#72

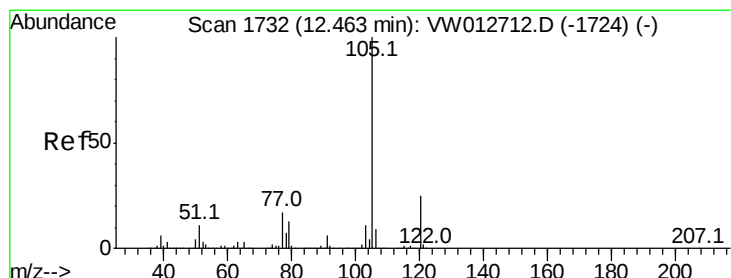
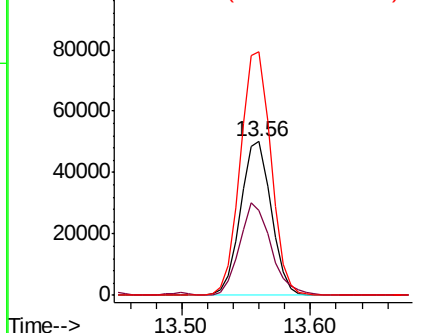
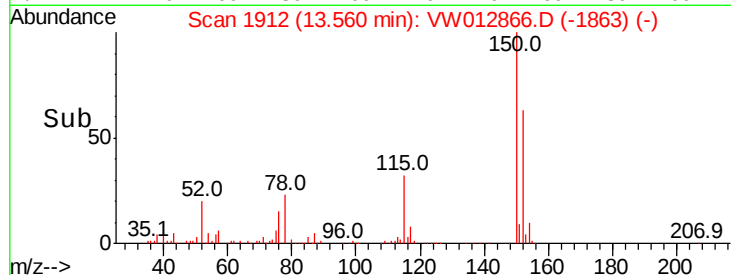
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Instrument :
MSVOA_W
ClientSampleId :
SU-04-090319

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.7	30.0	90.1
150	158.4	0.0	349.0



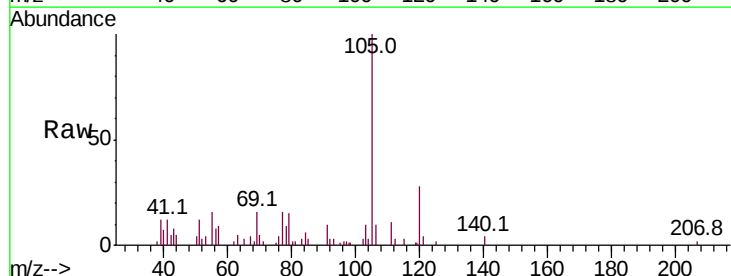
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



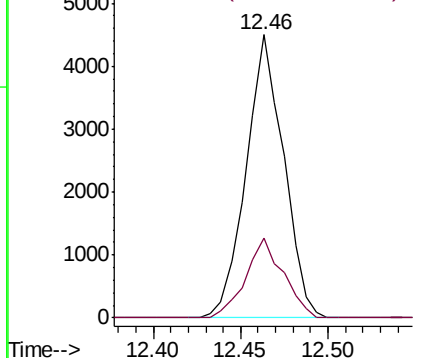
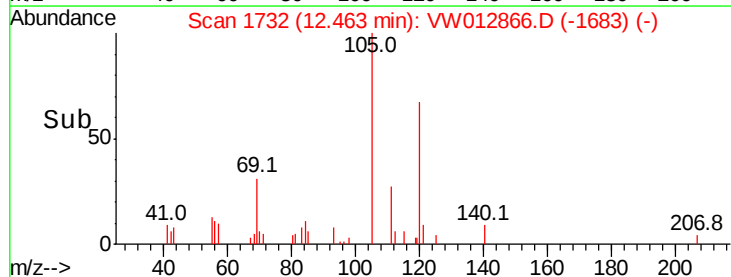
#73

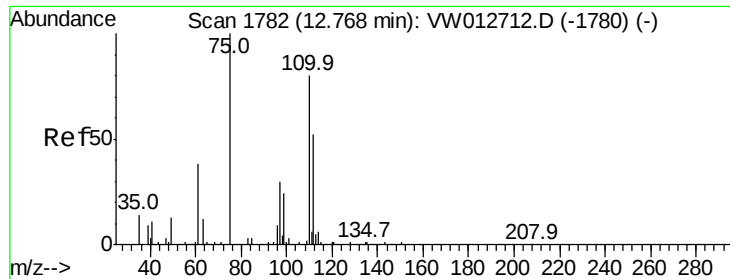
Isopropylbenzene
Concen: 1.140 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.1	13.0	38.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 66.405 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampleId :

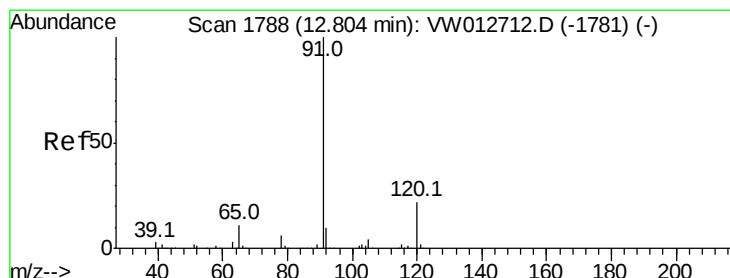
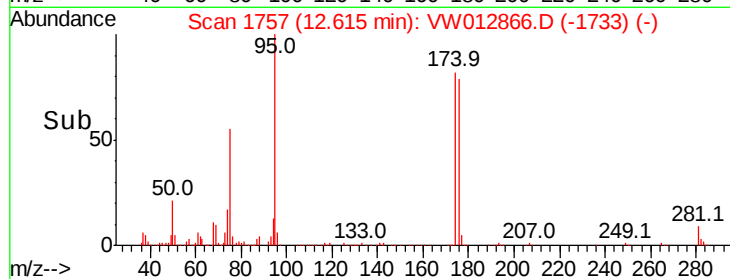
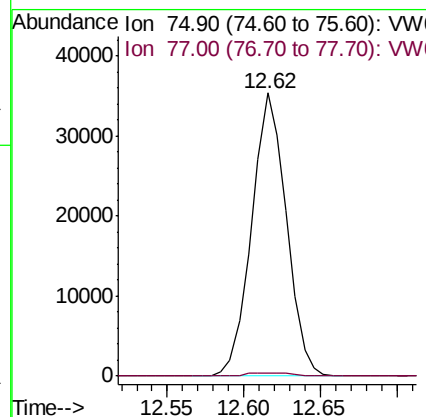
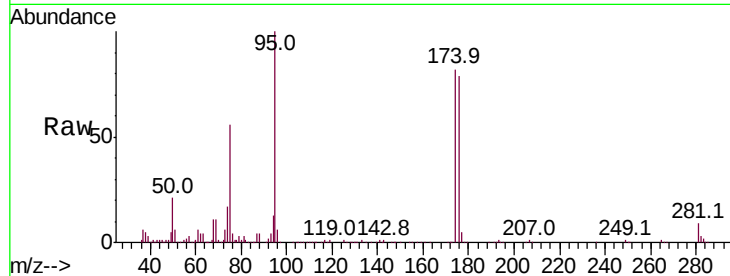
SU-04-090319

Tot Ion: 75 Resp: 55786

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#78

n-propylbenzene

Concen: 4.806 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW012866.D

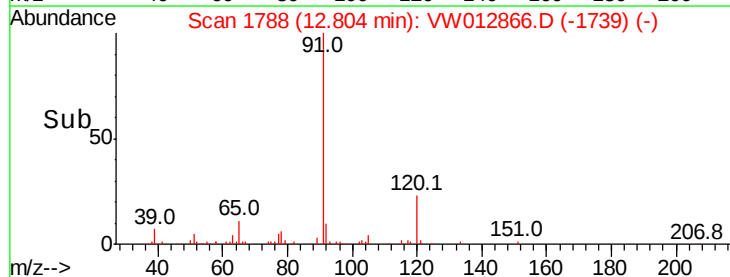
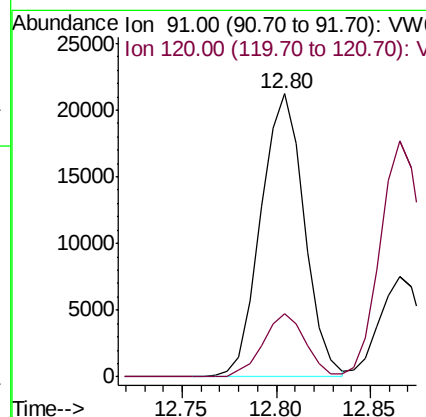
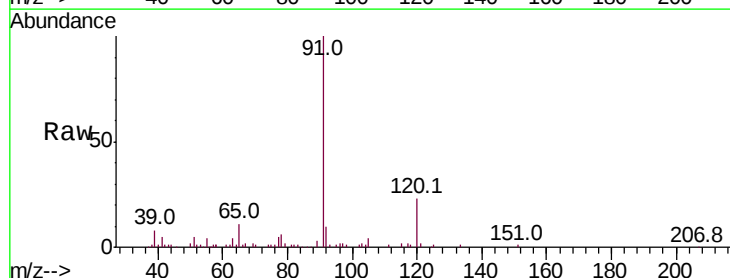
Acq: 10 Sep 2019 13:24

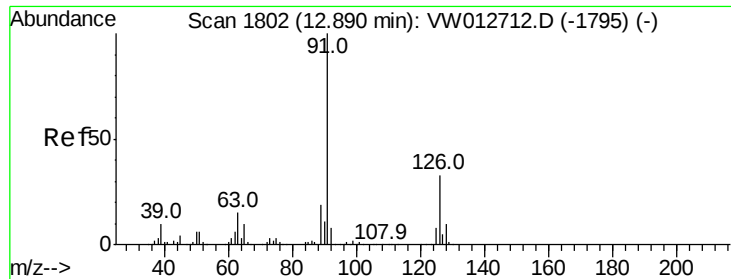
Tgt Ion: 91 Resp: 33873

Ion Ratio Lower Upper

91 100

120 21.7 11.0 33.0

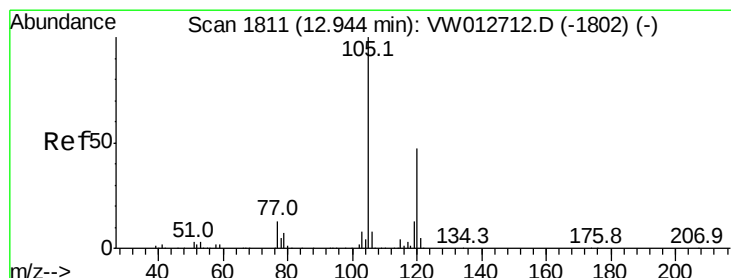
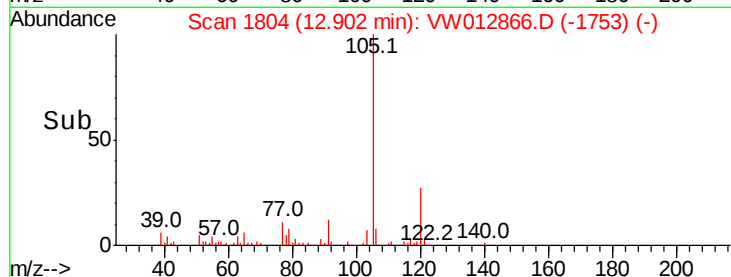
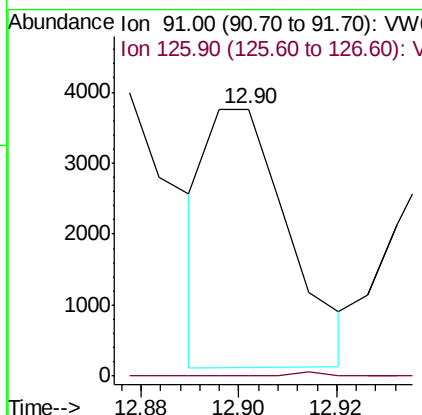
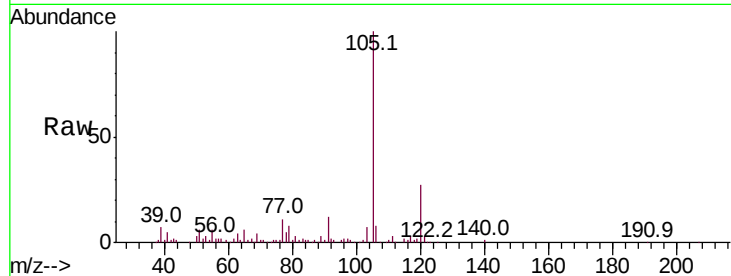




#79
2-Chlorotoluene
Concen: 1.040 ug/l
RT: 12.90 min Scan# 1804
Delta R.T. 0.01 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

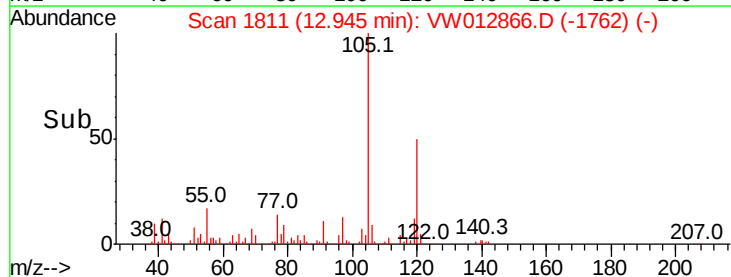
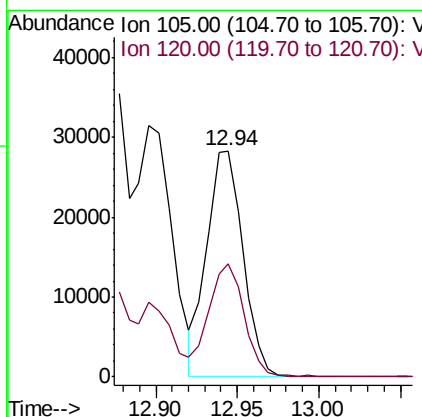
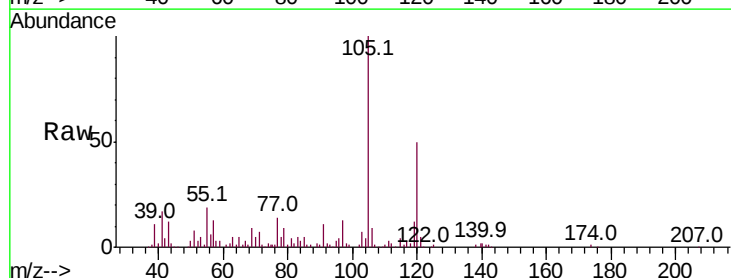
Instrument :
MSVOA_W
ClientSampleId :
SU-04-090319

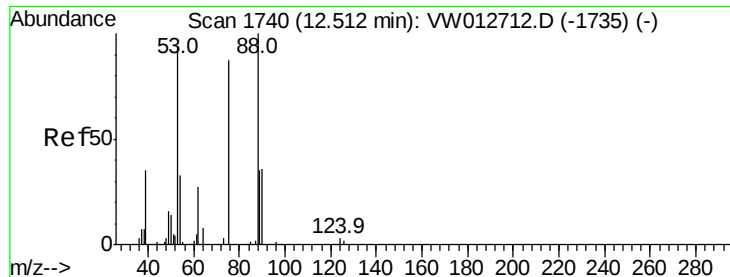
Tot Ion: 91 Resp: 4208
Ion Ratio Lower Upper
91 100
126 0.5 16.1 48.3#



#80
1,3,5-Trimethylbenzene
Concen: 8.860 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion:105 Resp: 43991
Ion Ratio Lower Upper
105 100
120 48.7 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 140.450 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampleId :

SU-04-090319

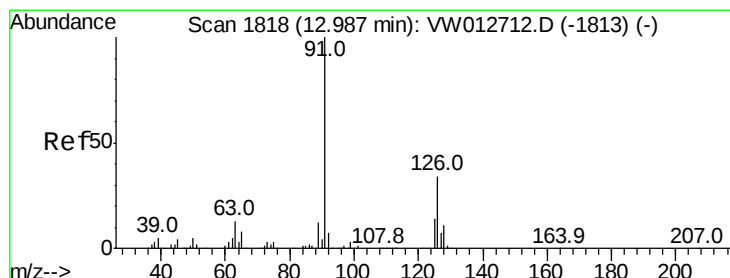
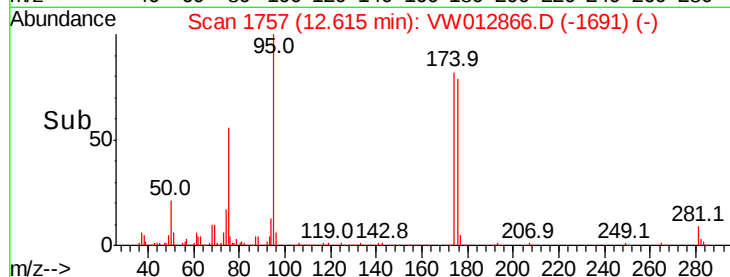
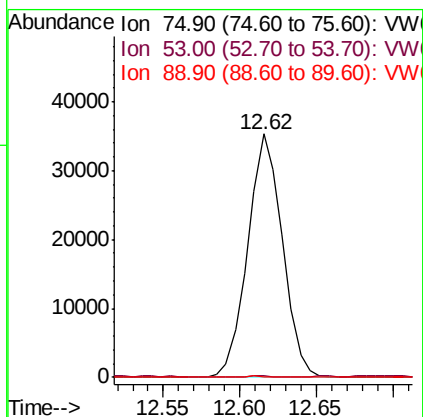
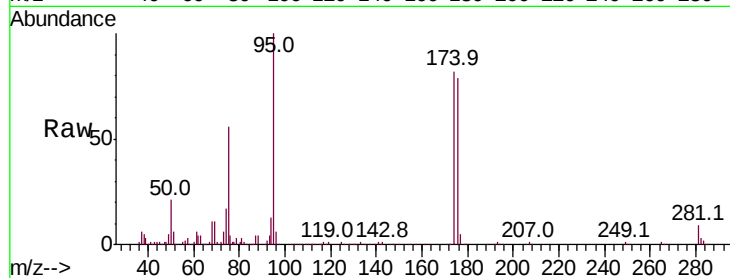
Tot Ion: 75 Resp: 55786

Ion Ratio Lower Upper

75 100

53 0.5 87.6 131.4#

89 0.3 35.5 53.3#



#82

4-Chlorotoluene

Concen: 1.054 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.04 min

Lab File: VW012866.D

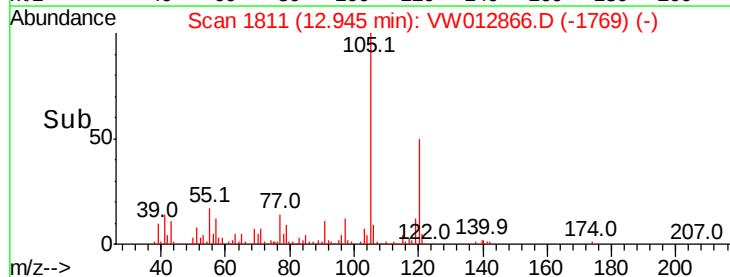
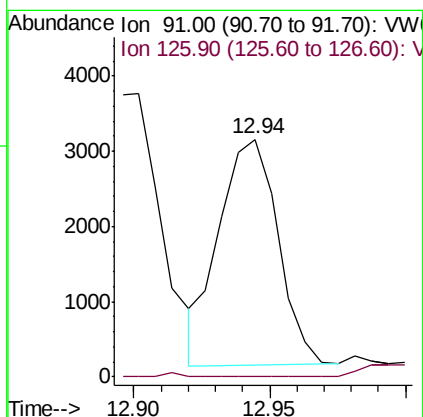
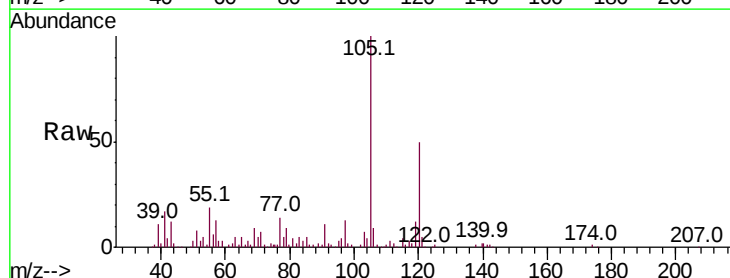
Acq: 10 Sep 2019 13:24

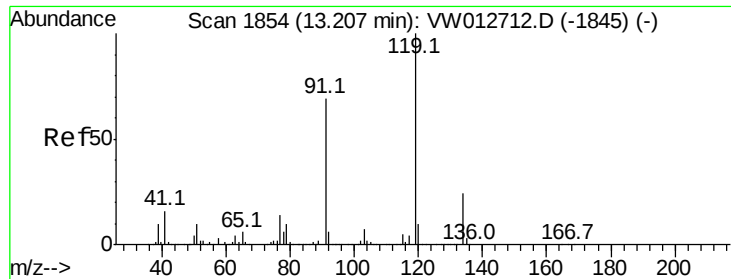
Tgt Ion: 91 Resp: 4509

Ion Ratio Lower Upper

91 100

126 0.0 15.9 47.6#

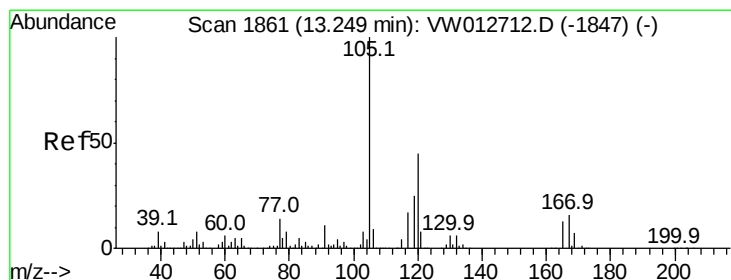
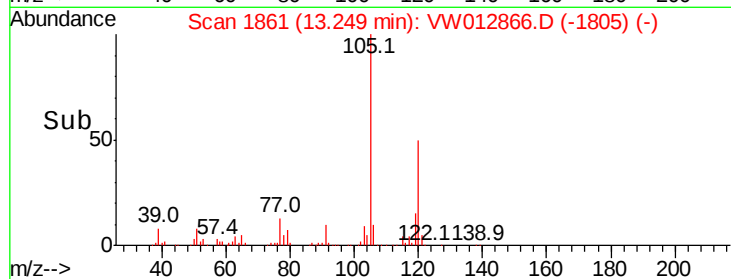
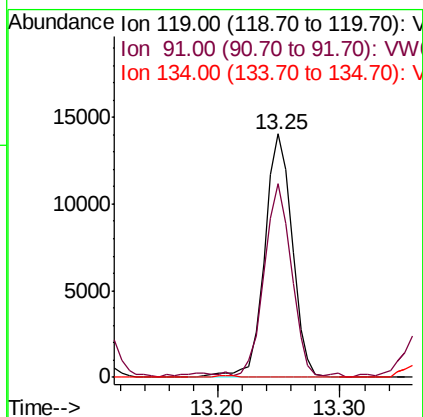
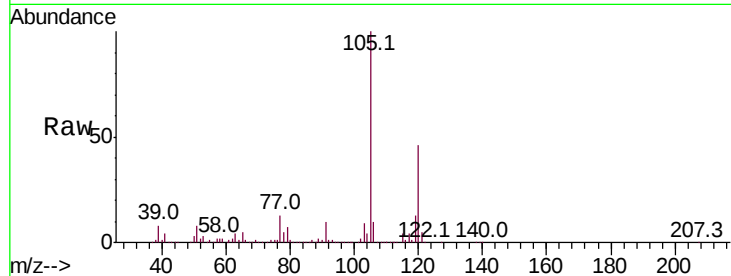




#83
tert-Butylbenzene
Concen: 5.020 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.04 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

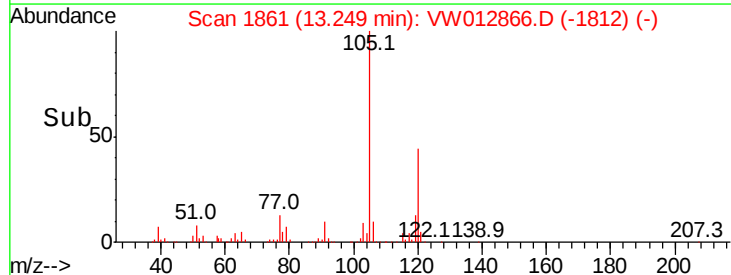
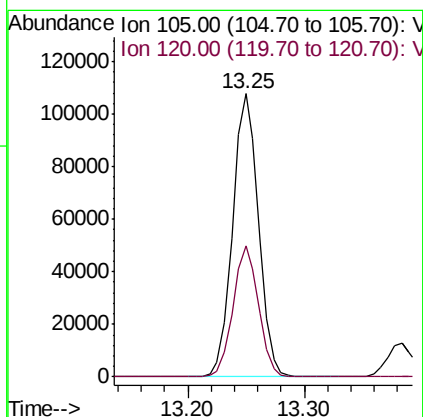
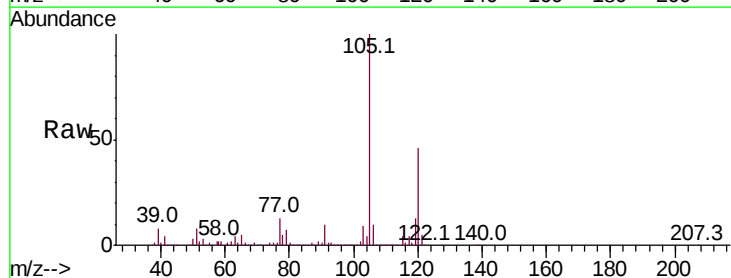
Instrument :
MSVOA_W
ClientSampled :
SU-04-090319

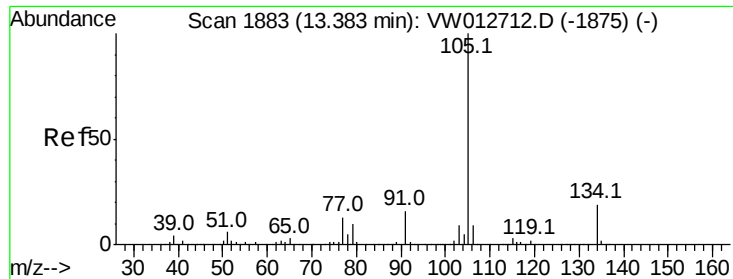
Tot Ion:119 Resp: 22039
Ion Ratio Lower Upper
119 100
91 82.1 34.2 102.5
134 0.0 12.3 36.9#



#84
1,2,4-Trimethylbenzene
Concen: 33.277 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW012866.D
Acq: 10 Sep 2019 13:24

Tgt Ion:105 Resp: 166490
Ion Ratio Lower Upper
105 100
120 45.3 22.1 66.3





#85

sec-Butylbenzene

Concen: 3.310 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampled :

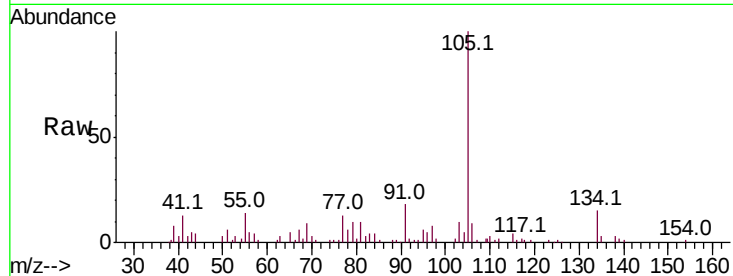
SU-04-090319

Tot Ion:105 Resp: 20168

Ion Ratio Lower Upper

105 100

134 23.0 9.8 29.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.38

15000

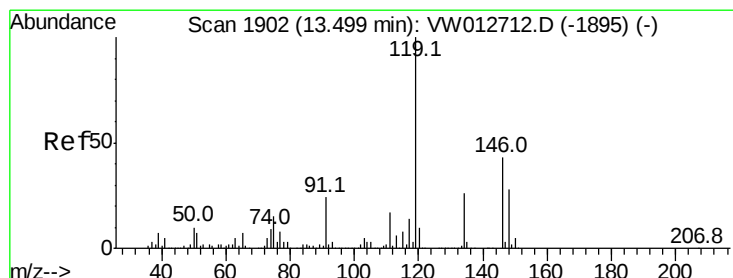
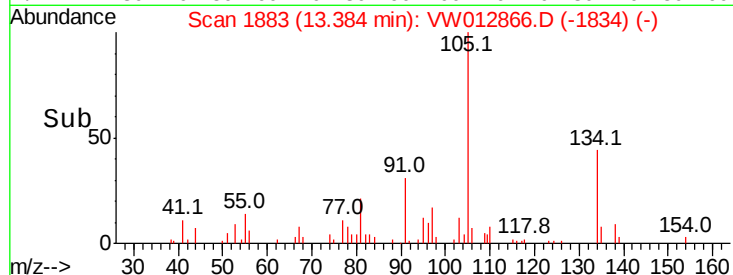
10000

5000

0

Time-->

13.35 13.40



#86

p-Isopropyltoluene

Concen: 2.171 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

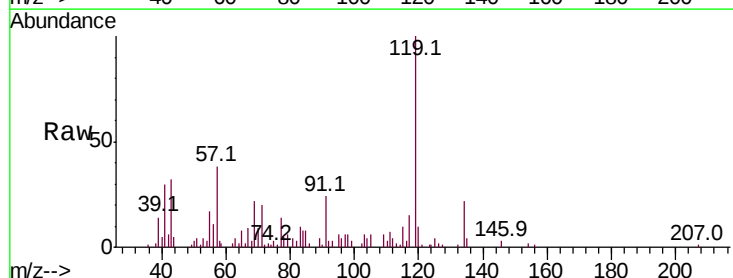
Tgt Ion:119 Resp: 12082

Ion Ratio Lower Upper

119 100

134 26.5 12.7 38.1

91 25.6 12.2 36.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

20000

15000

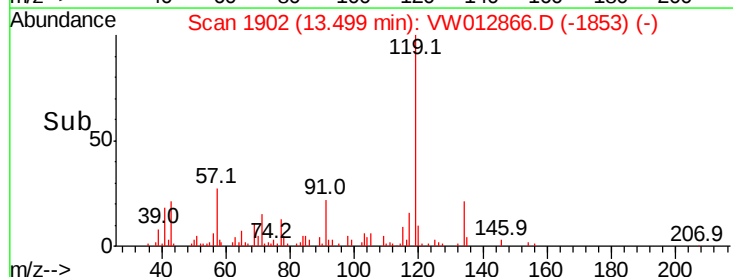
10000

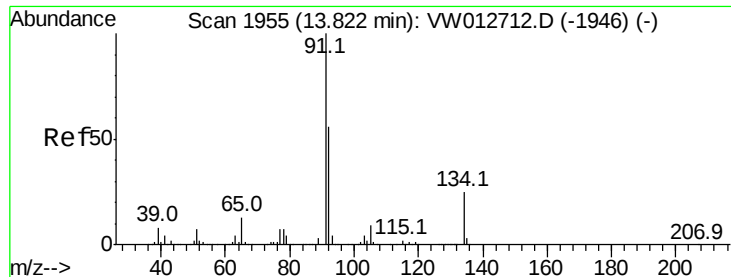
5000

0

Time-->

13.45 13.50 13.55





#89

n-Butylbenzene

Concen: 7.417 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampled :

SU-04-090319

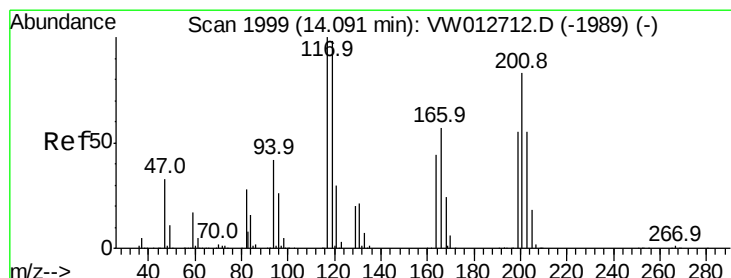
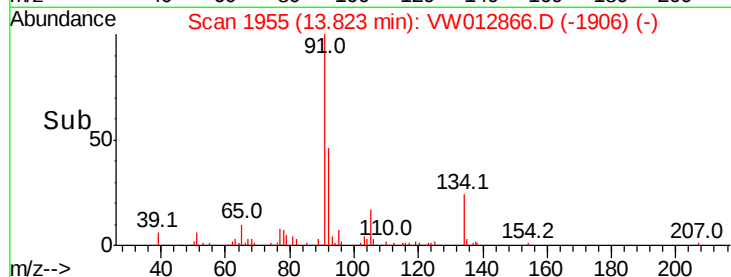
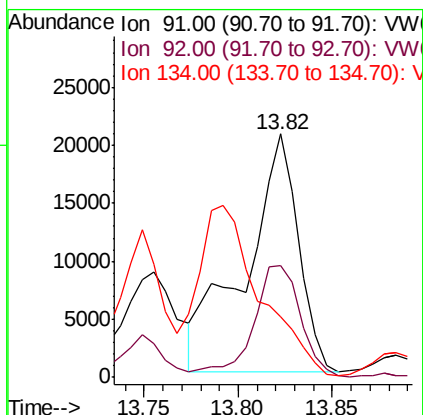
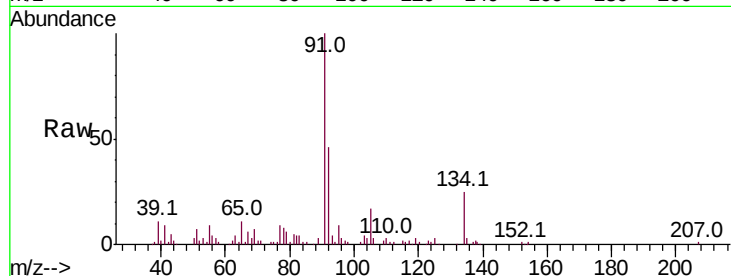
Tot Ion: 91 Resp: 40067

Ion Ratio Lower Upper

91 100

92 42.4 27.2 81.5

134 0.0 12.7 38.1#



#90

Hexachloroethane

Concen: 6.521 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW012866.D

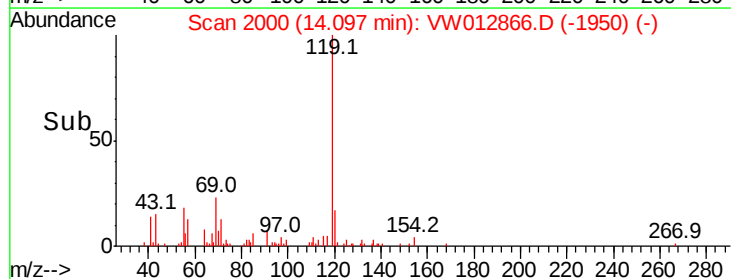
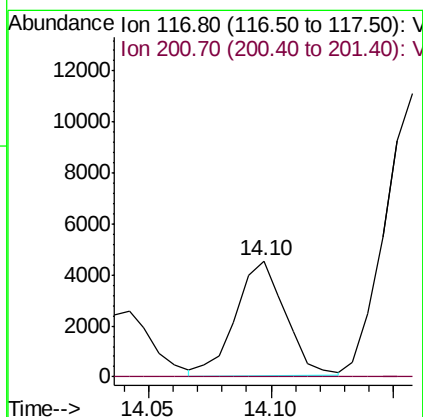
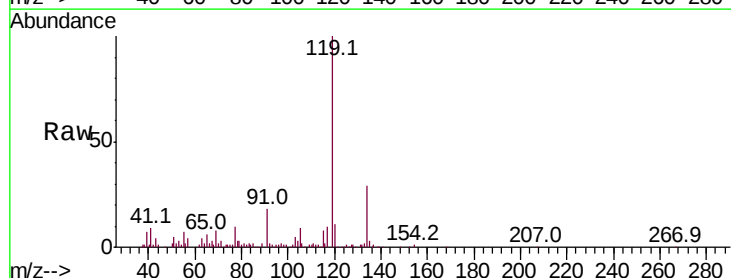
Acq: 10 Sep 2019 13:24

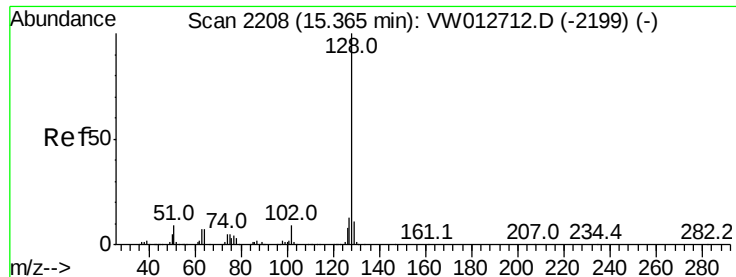
Tgt Ion: 117 Resp: 6335

Ion Ratio Lower Upper

117 100

201 0.0 42.8 128.4#





#95

Naphthalene

Concen: 6.977 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012866.D

Acq: 10 Sep 2019 13:24

Instrument :

MSVOA_W

ClientSampleId :

SU-04-090319

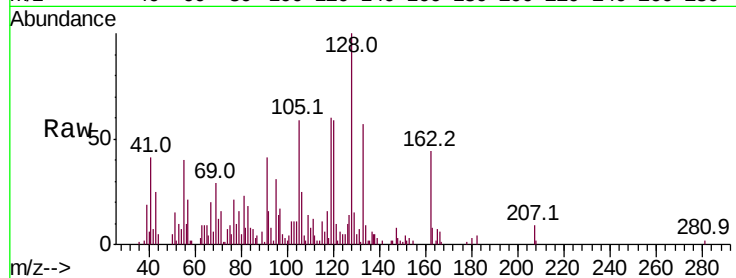
Tot Ion:128 Resp: 9599

Ion Ratio Lower Upper

128 100

127 11.6 10.7 16.1

129 9.9 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

