

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX083019\
 Data File : VX011917.D
 Acq On : 30 Aug 2019 19:42
 Operator : SY/SP
 Sample : K4472-15
 Misc : 6.54g/5.0mL/MSVOA X/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-S1-(0)

Quant Time: Aug 31 02:04:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 01:59:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.65
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-6.85
63) Chlorobenzene-d5	10.14	117	24	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	11.88	152	49	50.00	ug/l	-0.19

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	81	0.00	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	5.59	113	20	0.00	ug/l	0.11
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	8.71	98	45	0.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.15	95	101	0.00	ug/l	0.02
Spiked Amount	50.000		Recovery	=	0.00%	

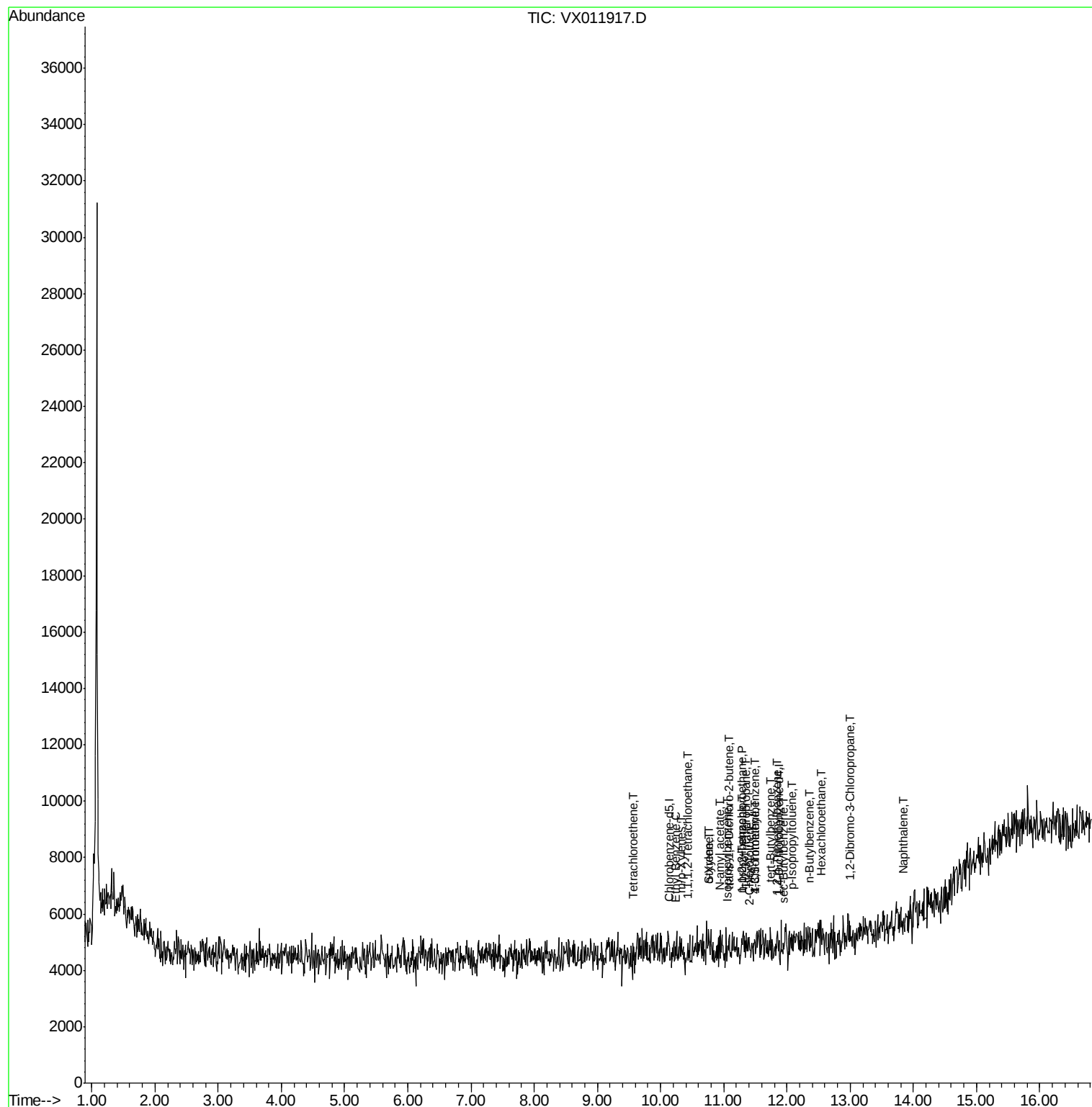
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
64) Tetrachloroethene	9.56	164	19	98.418	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	10.43	131	30	159.511	ug/l #	5
67) Ethyl Benzene	10.24	91	261	329.914	ug/l #	42
68) m/p-Xylenes	10.33	106	21	68.745	ug/l #	1
69) o-Xylene	10.76	106	28	94.061	ug/l #	1
70) Styrene	10.76	104	19	36.212	ug/l #	1
73) Isopropylbenzene	11.06	105	86	30.546	ug/l	98
74) N-amyl acetate	10.93	43	142	169.954	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	11.28	83	173	300.243	ug/l #	56
76) 1,2,3-Trichloropropane	11.34	75	19	39.418	ug/l #	34
78) n-propylbenzene	11.28	91	151	47.297	ug/l	76
79) 2-Chlorotoluene	11.42	91	133	69.210	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.49	105	21	8.641	ug/l #	27
81) trans-1,4-Dichloro-2-buten	11.08	75	40	208.473	ug/l #	1
82) 4-Chlorotoluene	11.49	91	71	30.626	ug/l #	43
83) tert-Butylbenzene	11.74	119	21	8.516	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.84	105	60	24.092	ug/l #	30
85) sec-Butylbenzene	11.95	105	19	6.634	ug/l #	54
86) p-Isopropyltoluene	12.07	119	65	23.404	ug/l #	1
89) n-Butylbenzene	12.36	91	111	45.175	ug/l #	46
90) Hexachloroethane	12.53	117	19	35.363	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.99	75	75	653.439	ug/l #	1
95) Naphthalene	13.84	128	23	11.281	ug/l #	69

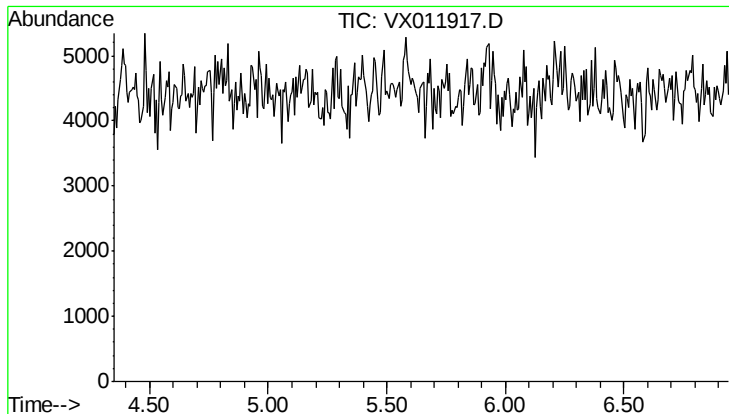
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 31 02:04:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082919S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 30 01:59:05 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.65 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Tot Ion: 168

Sig Exp Ratio

168 100

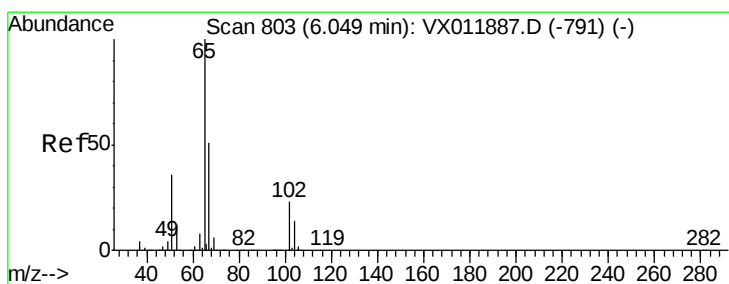
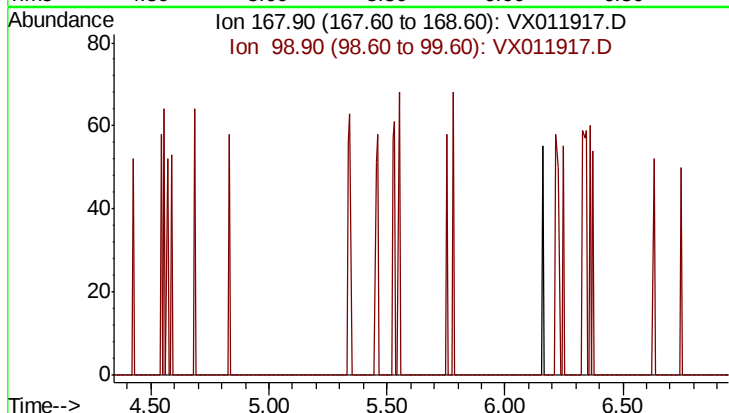
99 48.0

Instrument :

MSVOA_X

ClientSampleId :

T6-S1-(0)



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 6.03 min Scan# 843

Delta R.T. -0.02 min

Lab File: VX011917.D

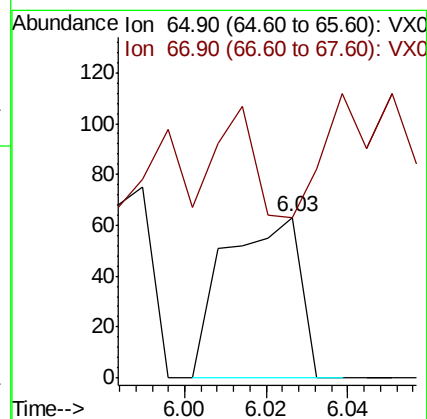
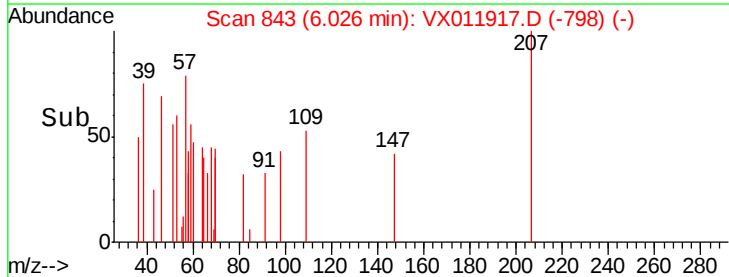
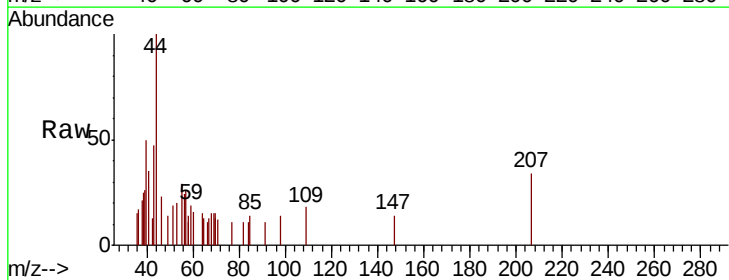
Acq: 30 Aug 2019 19:42

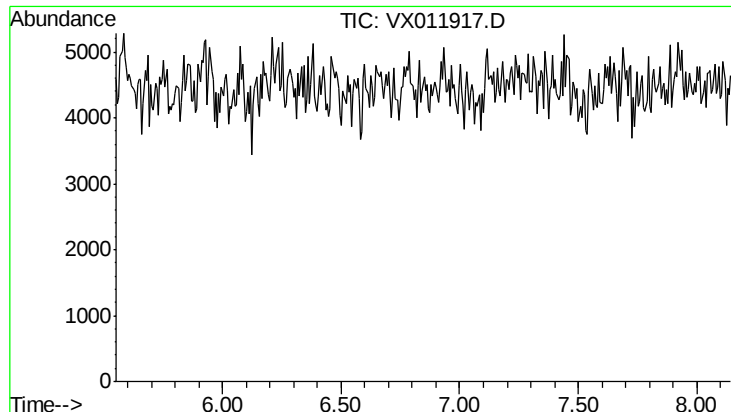
Tgt Ion: 65 Resp: 81

Ion Ratio Lower Upper

65 100

67 80.2 0.0 102.2

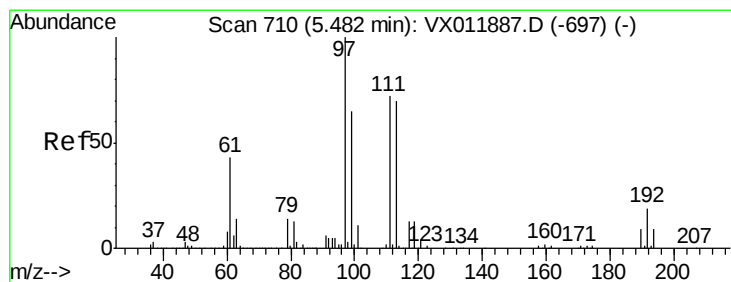
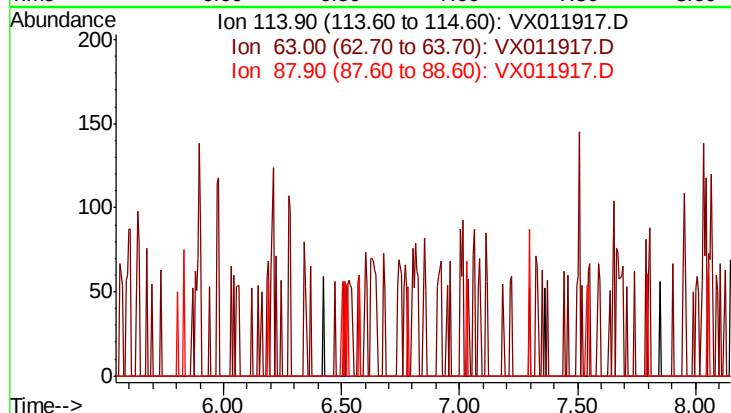




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 6.85 min
 Lab File: VX011917.D
 Acq: 30 Aug 2019 19:42

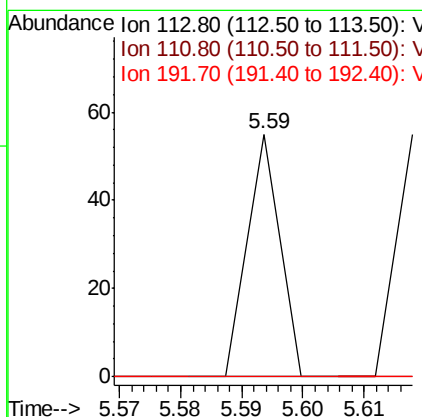
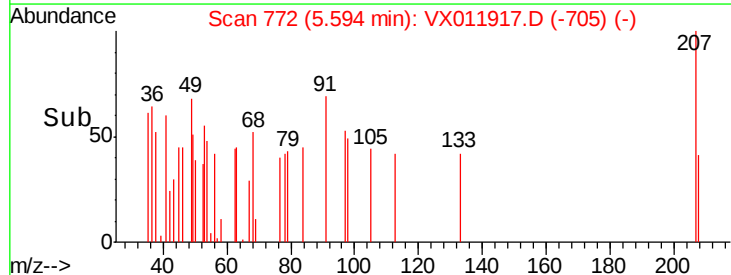
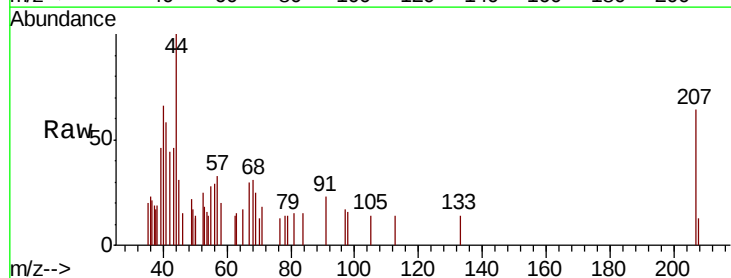
Instrument :
 MSVOA_X
 ClientSampleId :
 T6-S1-(0)

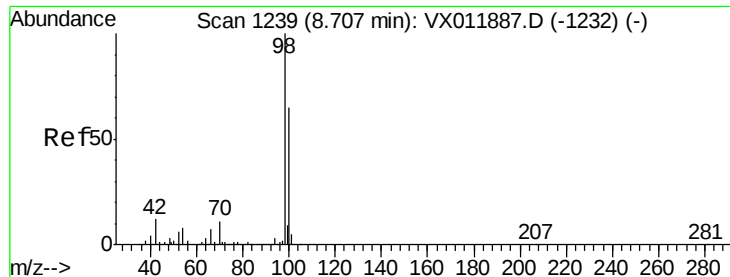
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 19.4
 88 15.6



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 RT: 5.59 min Scan# 772
 Delta R.T. 0.11 min
 Lab File: VX011917.D
 Acq: 30 Aug 2019 19:42

Tgt Ion: 113 Resp: 20
 Ion Ratio Lower Upper
 113 100
 111 0.0 82.1 123.1#
 192 0.0 21.5 32.3#





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

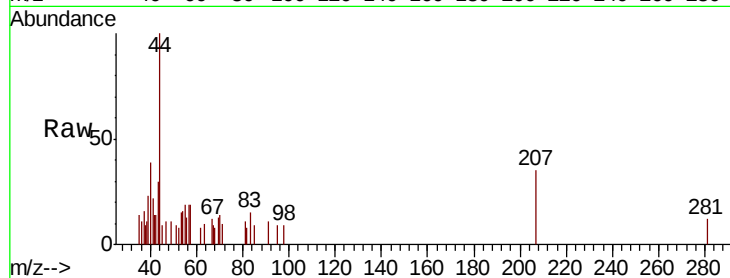
T6-S1-(0)

Tot Ion: 98 Resp: 45

Ion Ratio Lower Upper

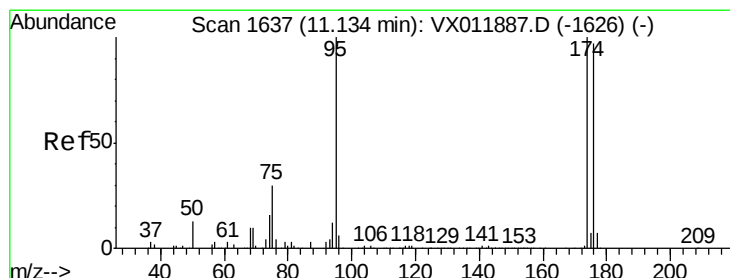
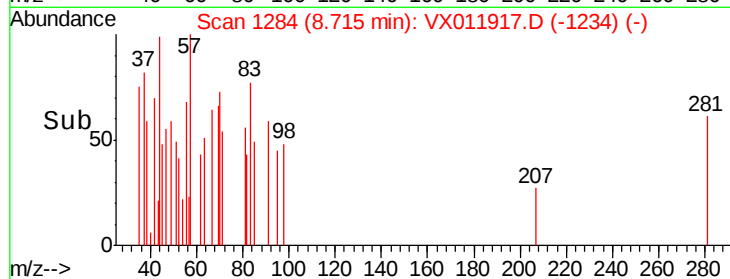
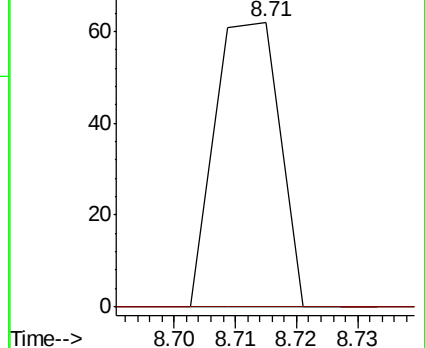
98 100

100 0.0 53.0 79.6#



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 11.15 min Scan# 1684

Delta R.T. 0.02 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

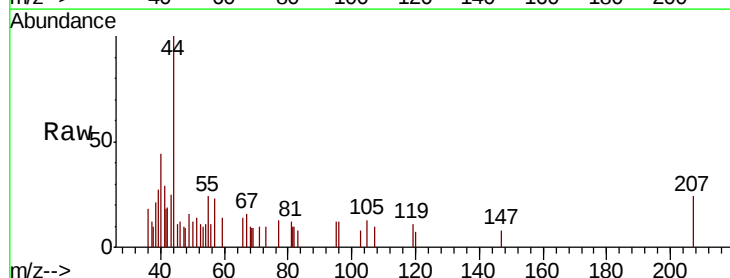
Tgt Ion: 95 Resp: 101

Ion Ratio Lower Upper

95 100

174 0.0 0.0 196.0

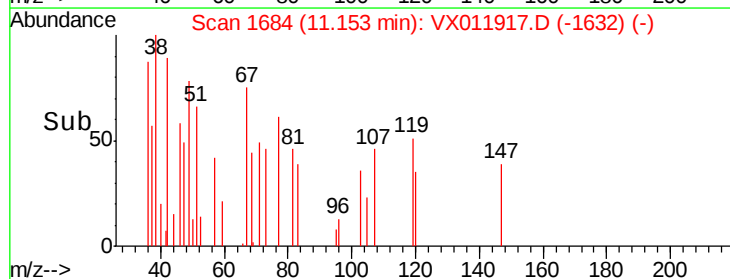
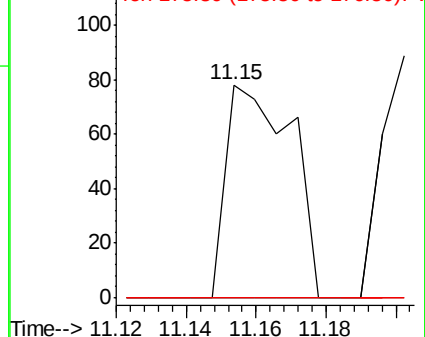
176 0.0 0.0 191.4

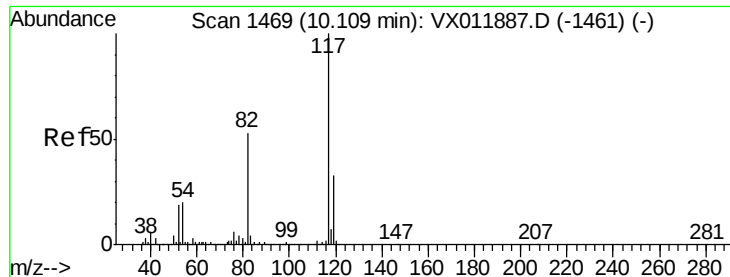


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

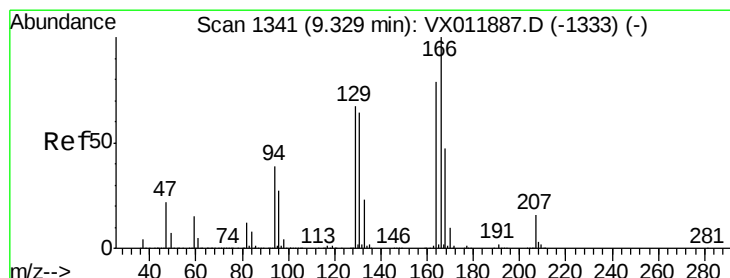
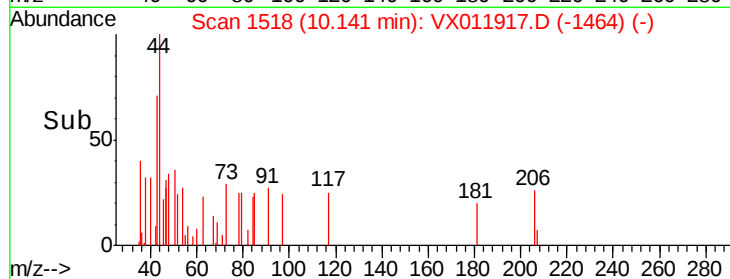
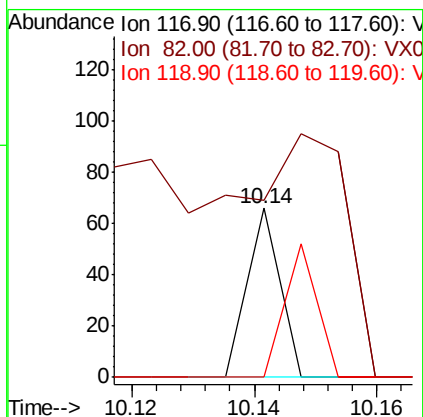
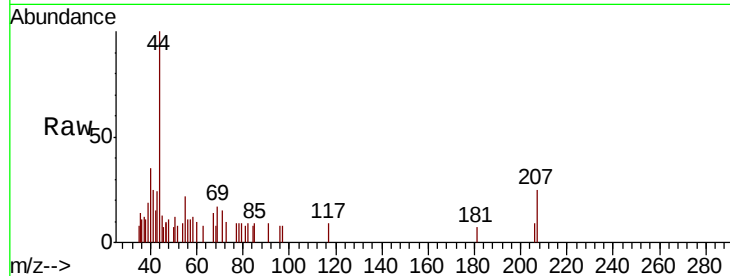




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.14 min Scan# 1518
Delta R.T. 0.03 min
Lab File: VX011917.D
Acq: 30 Aug 2019 19:42

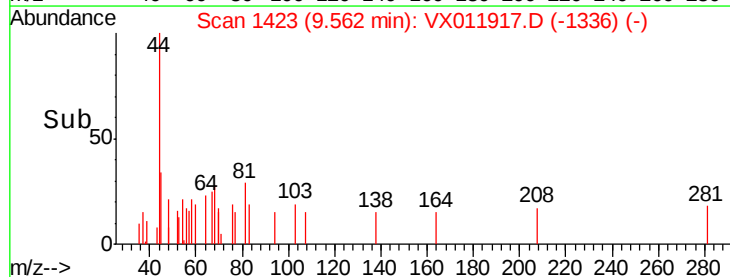
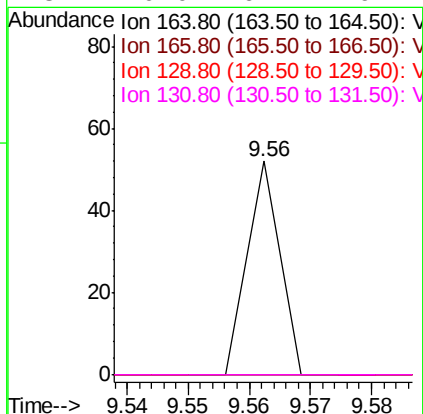
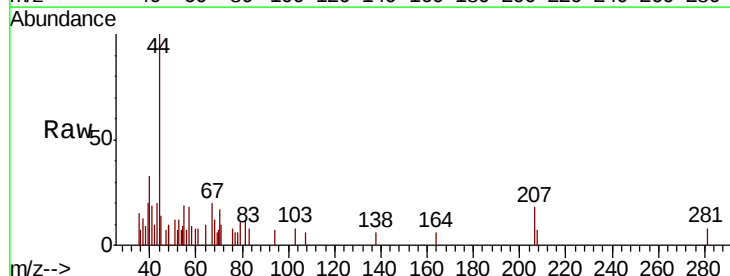
Instrument :
MSVOA_X
ClientSampled :
T6-S1-(0)

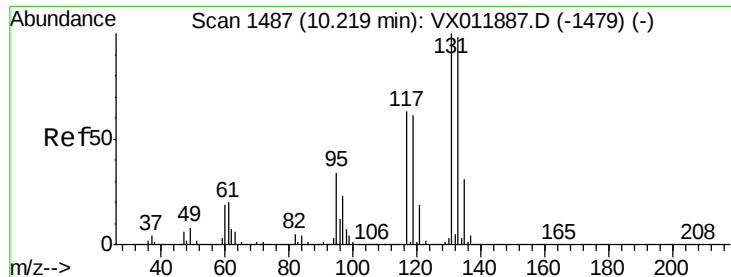
Tot Ion:117 Resp: 24
Ion Ratio Lower Upper
117 100
82 7.6 42.0 63.0#
119 0.0 26.2 39.4#



#64
Tetrachloroethene
Concen: 98.418 ug/l
RT: 9.56 min Scan# 1423
Delta R.T. 0.23 min
Lab File: VX011917.D
Acq: 30 Aug 2019 19:42

Tgt Ion:164 Resp: 19
Ion Ratio Lower Upper
164 100
166 0.0 101.4 152.0#
129 0.0 68.0 102.0#
131 0.0 64.7 97.1#





#66

1,1,1,2-Tetrachloroethane

Concen: 159.511 ug/l

RT: 10.43 min Scan# 1566

Delta R.T. 0.21 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampled :

T6-S1-(0)

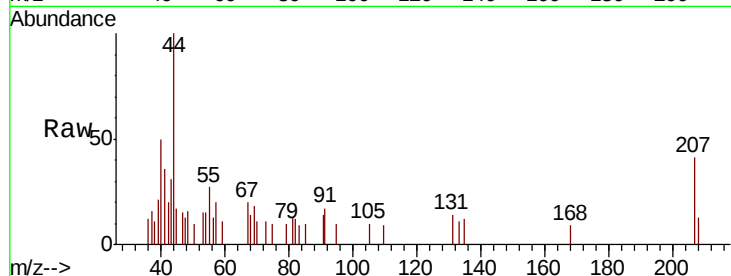
Tot Ion:131 Resp: 30

Ion Ratio Lower Upper

131 100

133 76.7 48.4 145.0

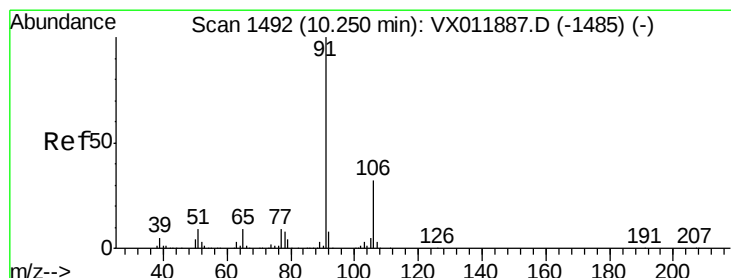
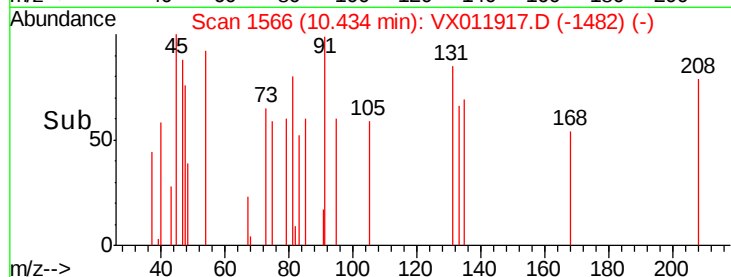
119 223.3 30.6 92.0#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 329.914 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VX011917.D

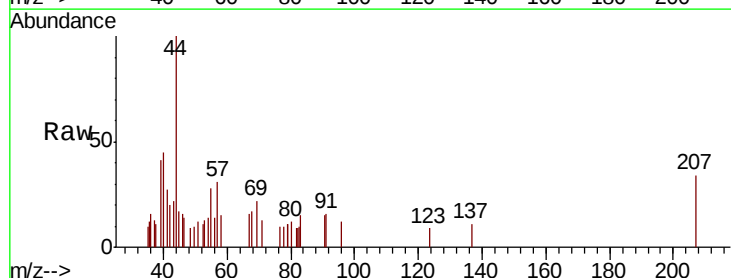
Acq: 30 Aug 2019 19:42

Tgt Ion: 91 Resp: 261

Ion Ratio Lower Upper

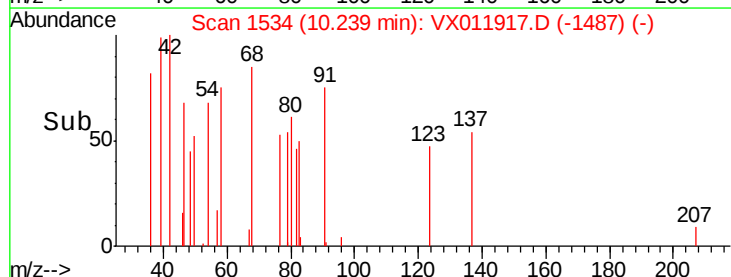
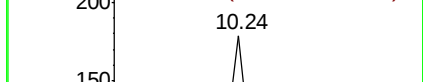
91 100

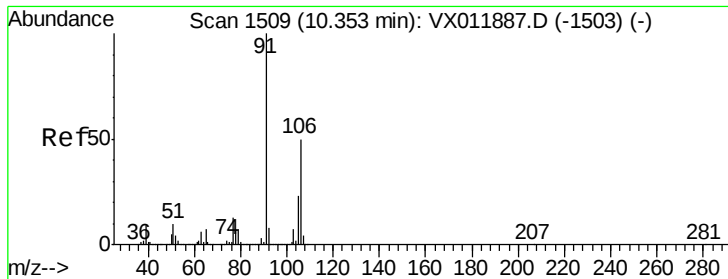
106 0.0 25.8 38.8#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

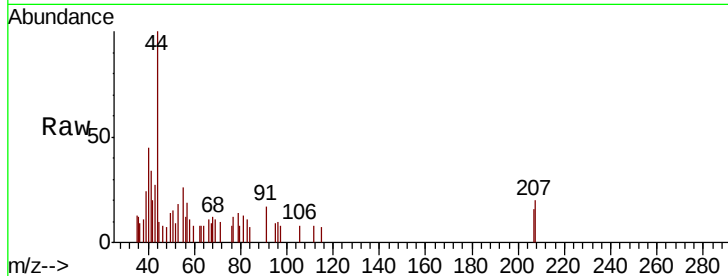




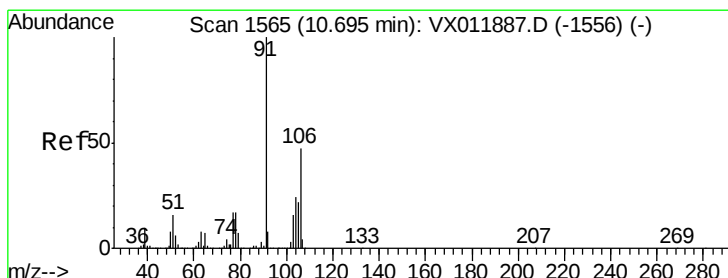
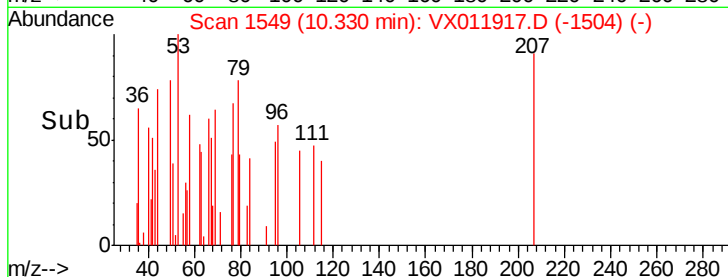
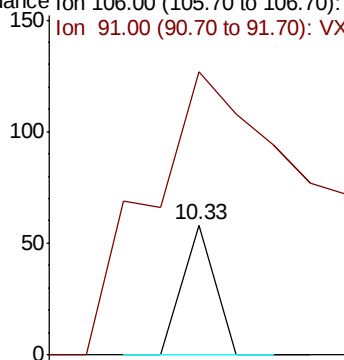
#68
m/p-Xylenes
Concen: 68.745 ug/l
RT: 10.33 min Scan# 1549
Delta R.T. -0.02 min
Lab File: VX011917.D
Acq: 30 Aug 2019 19:42

Instrument :
MSVOA_X
ClientSampled :
T6-S1-(0)

Tot Ion:106 Resp: 21
Ion Ratio Lower Upper
106 100
91 1066.7 158.6 237.8#

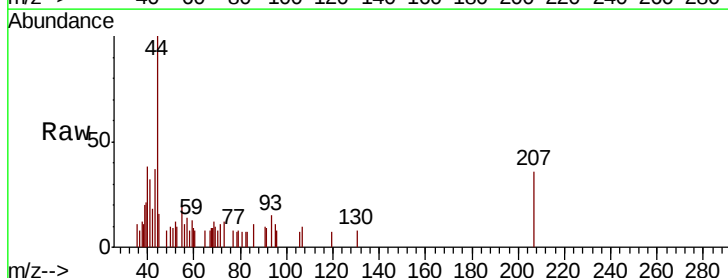


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

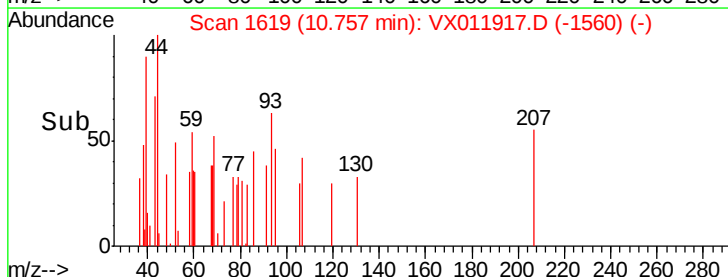
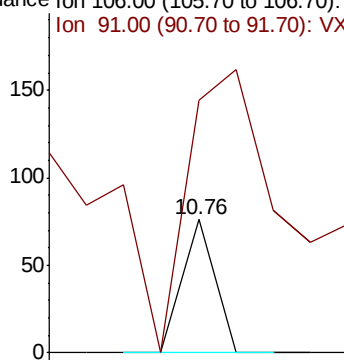


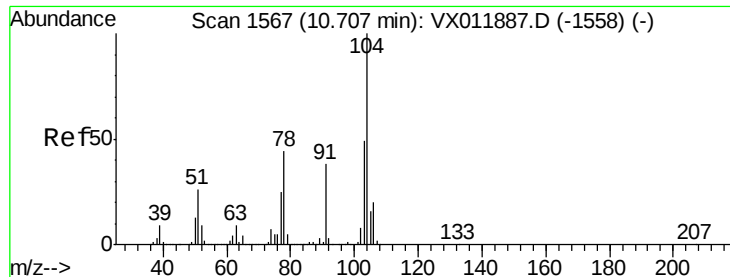
#69
o-Xylene
Concen: 94.061 ug/l
RT: 10.76 min Scan# 1619
Delta R.T. 0.06 min
Lab File: VX011917.D
Acq: 30 Aug 2019 19:42

Tgt Ion:106 Resp: 28
Ion Ratio Lower Upper
106 100
91 685.7 104.8 314.6#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#70

Stvrene

Concen: 36.212 ug/l

RT: 10.76 min Scan# 1620

Delta R.T. 0.06 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampled :

T6-S1-(0)

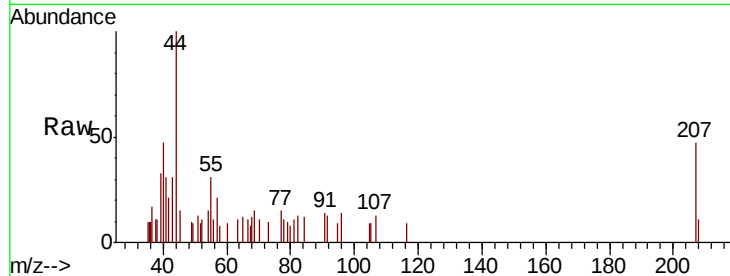
Tot Ion:104 Resp: 19

Ion Ratio Lower Upper

104 100

78 457.9 39.2 58.8#

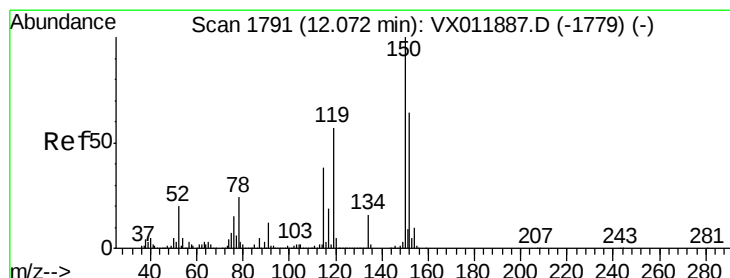
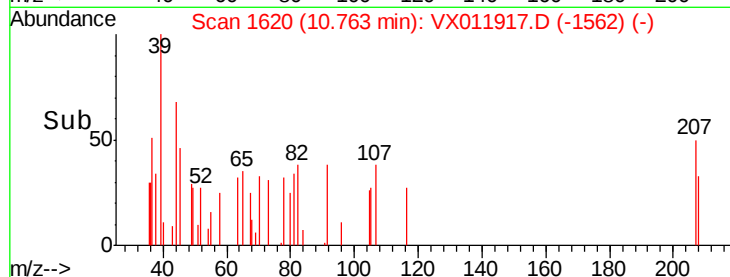
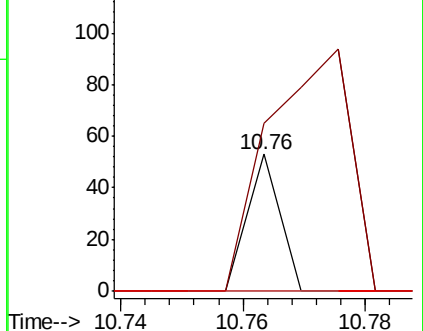
103 0.0 43.0 64.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.88 min Scan# 1803

Delta R.T. -0.19 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

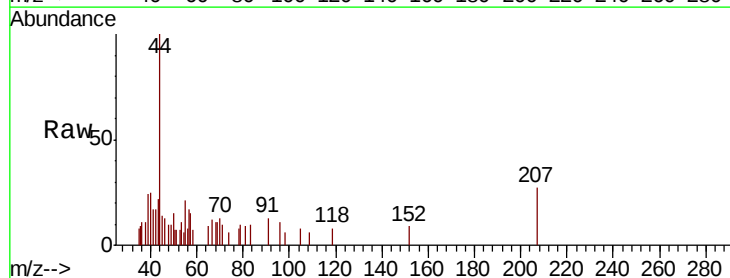
Tgt Ion:152 Resp: 49

Ion Ratio Lower Upper

152 100

115 0.0 37.1 111.3#

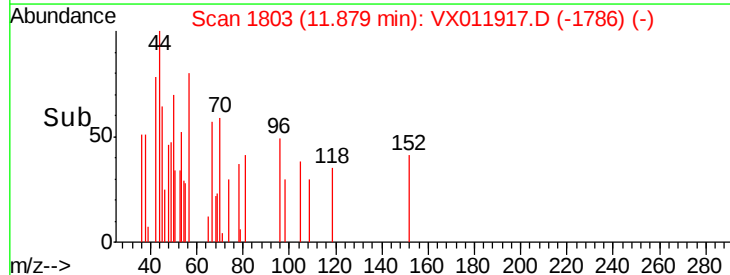
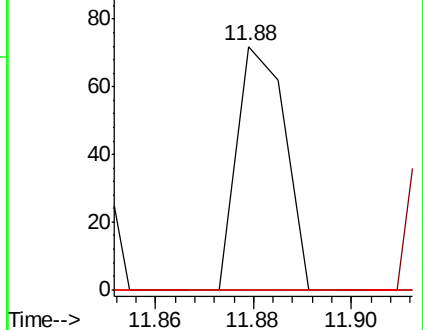
150 0.0 0.0 339.6

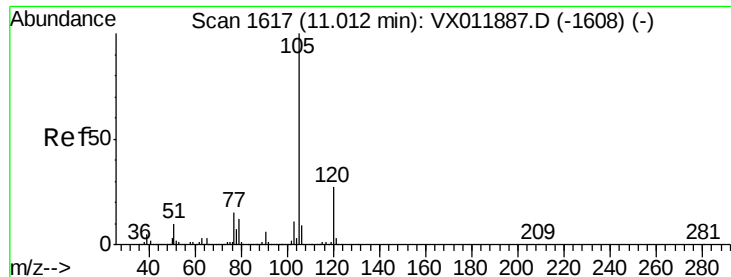


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 30.546 ug/l

RT: 11.06 min Scan# 1668

Delta R.T. 0.04 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

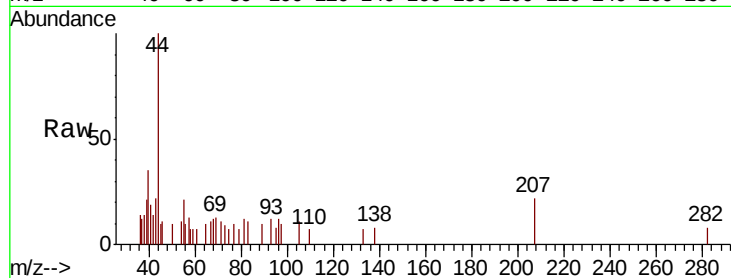
T6-S1-(0)

Tot Ion:105 Resp: 86

Ion Ratio Lower Upper

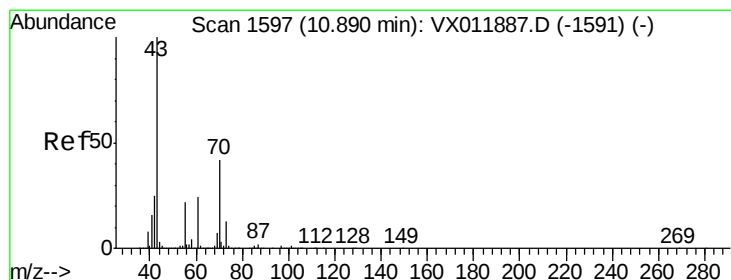
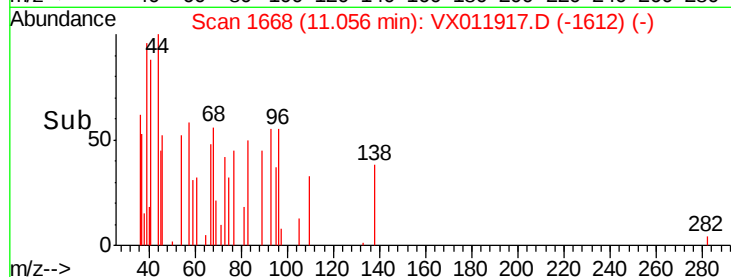
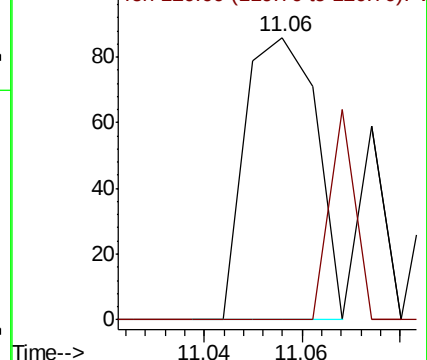
105 100

120 26.7 13.8 41.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 169.954 ug/l

RT: 10.93 min Scan# 1647

Delta R.T. 0.04 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Tgt Ion: 43 Resp: 142

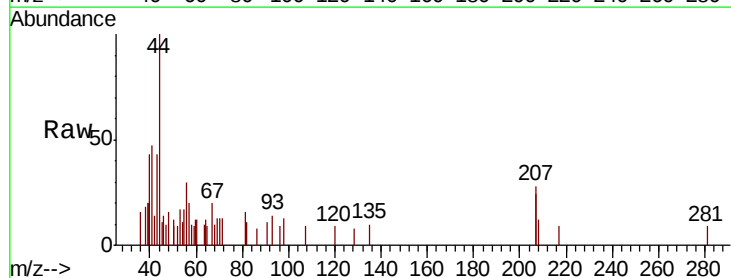
Ion Ratio Lower Upper

43 100

70 54.2 0.2 0.2#

55 117.6 0.1 0.1#

61 0.0 16.4 24.6#

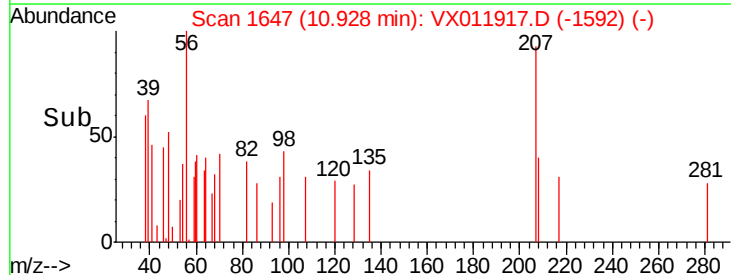
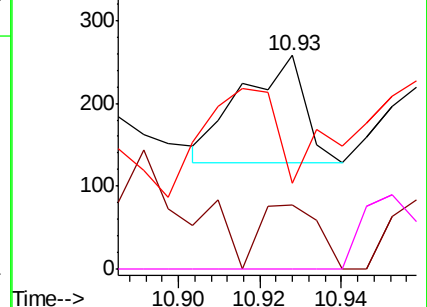


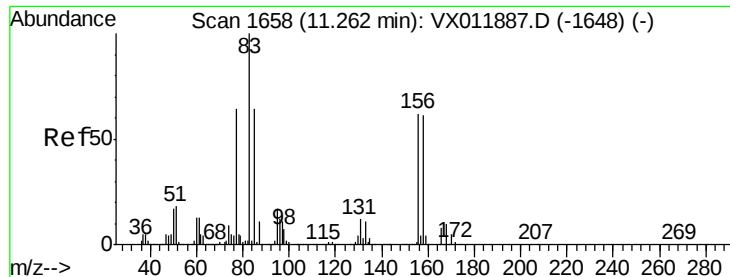
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 300.243 ug/l

RT: 11.28 min Scan# 1704

Delta R.T. 0.01 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

T6-S1-(0)

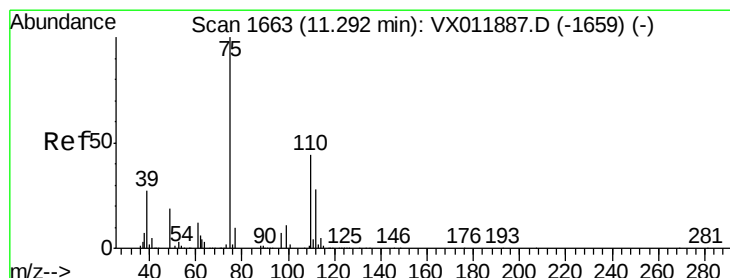
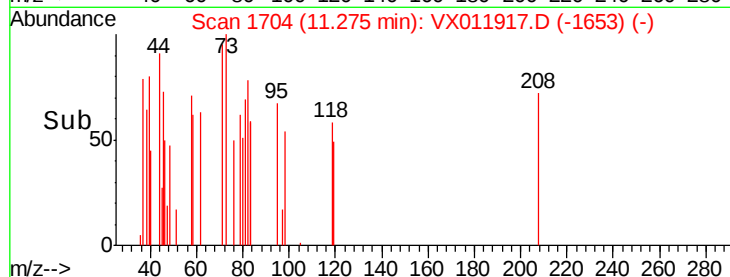
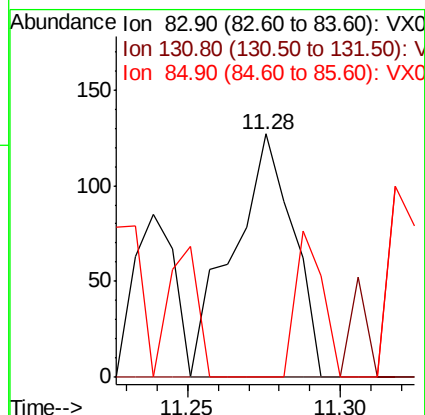
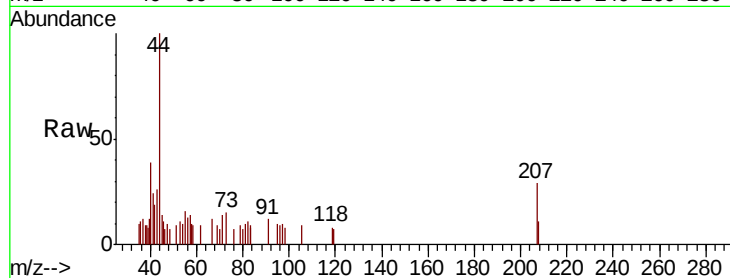
Tot Ion: 83 Resp: 173

Ion Ratio Lower Upper

83 100

131 0.0 6.0 18.0#

85 27.2 31.9 95.9#



#76

1,2,3-Trichloropropane

Concen: 39.418 ug/l

RT: 11.34 min Scan# 1715

Delta R.T. 0.05 min

Lab File: VX011917.D

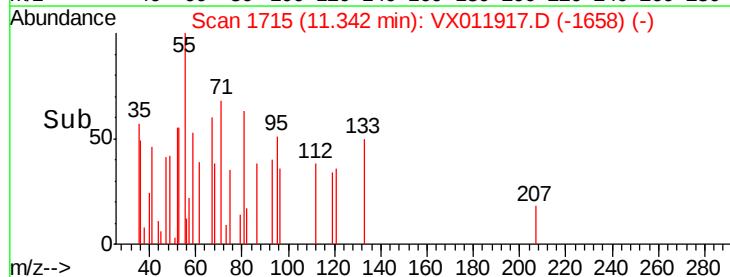
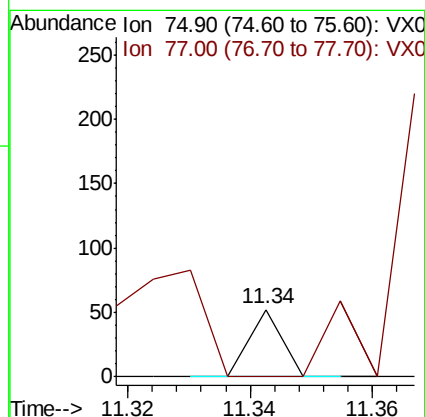
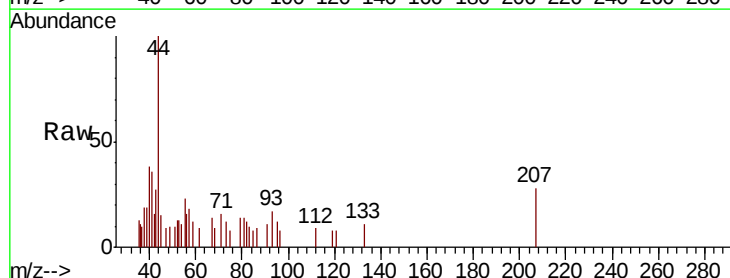
Acq: 30 Aug 2019 19:42

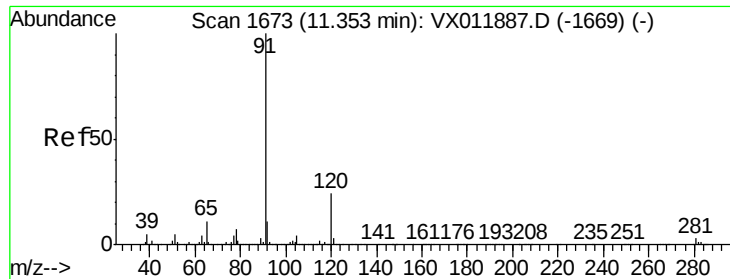
Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 0.0 20.9 62.7#





#78

n-propylbenzene

Concen: 47.297 ug/l

RT: 11.28 min Scan# 1705

Delta R.T. -0.07 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

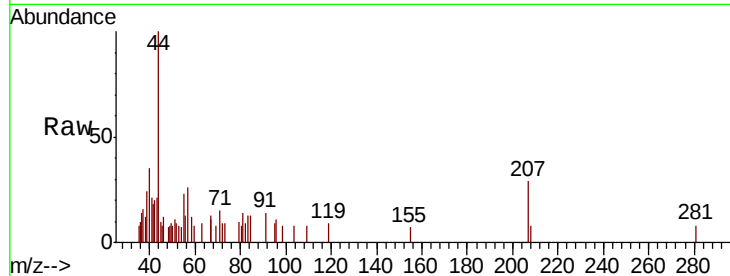
T6-S1-(0)

Tot Ion: 91 Resp: 151

Ion Ratio Lower Upper

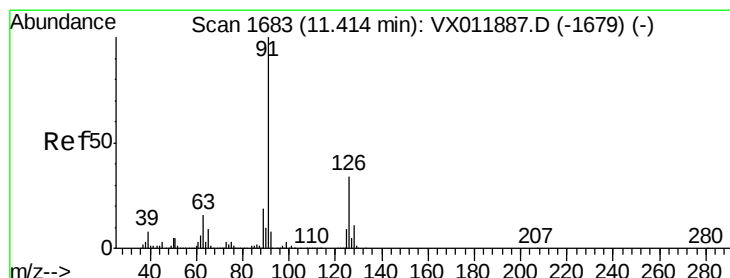
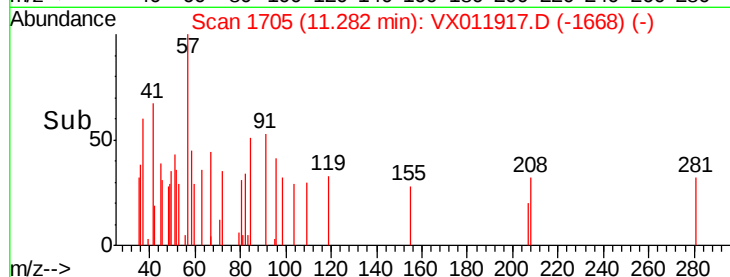
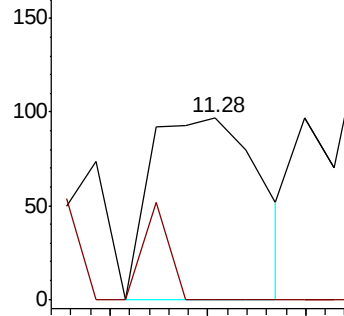
91 100

120 12.6 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 69.210 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX011917.D

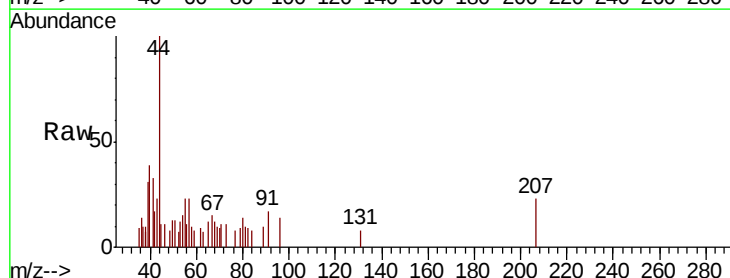
Acq: 30 Aug 2019 19:42

Tgt Ion: 91 Resp: 133

Ion Ratio Lower Upper

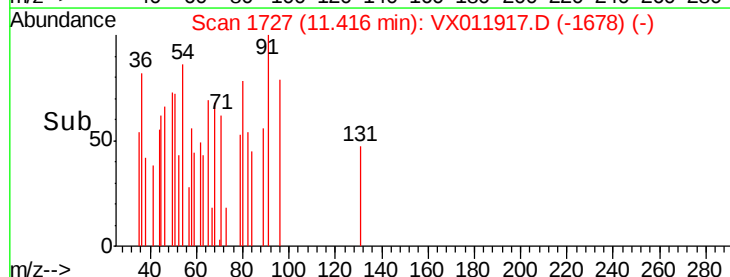
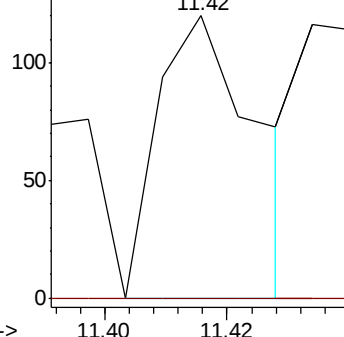
91 100

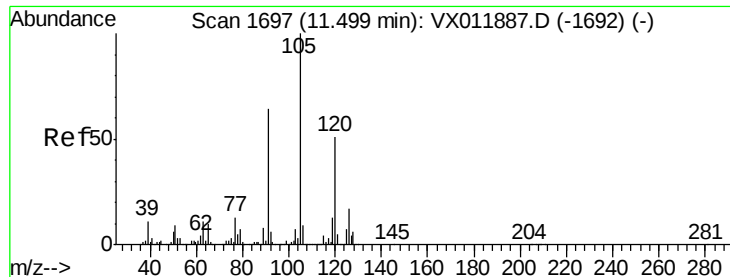
126 0.0 17.9 53.8#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

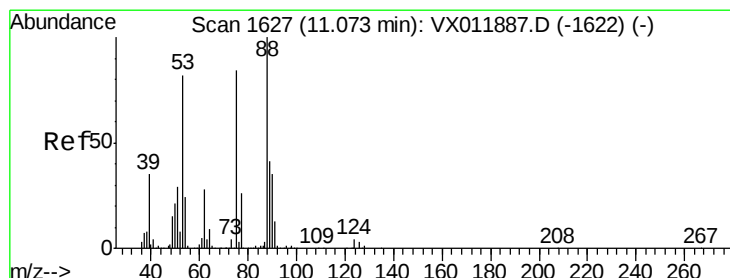
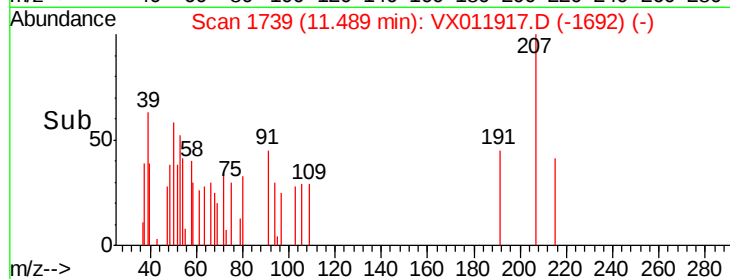
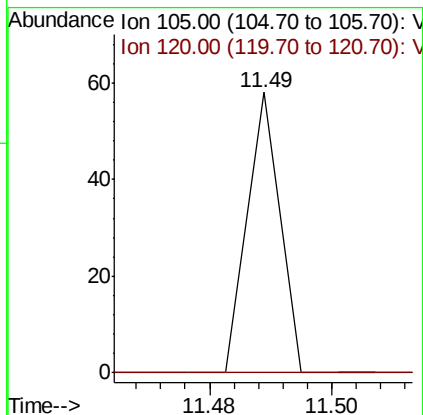
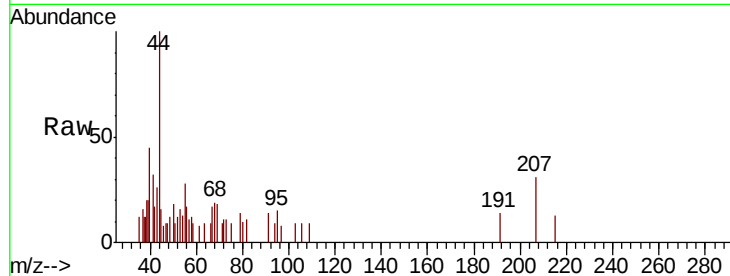




#80
 1,3,5-Trimethylbenzene
 Concen: 8.641 ug/l
 RT: 11.49 min Scan# 1739
 Delta R.T. -0.01 min
 Lab File: VX011917.D
 Acq: 30 Aug 2019 19:42

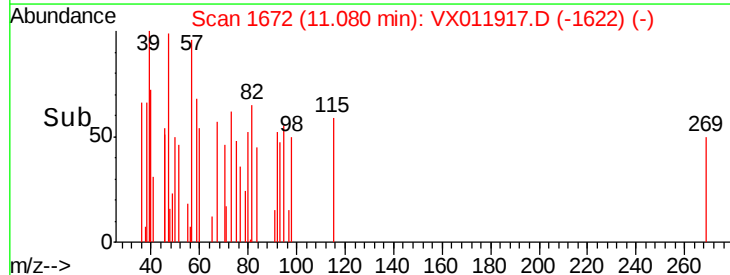
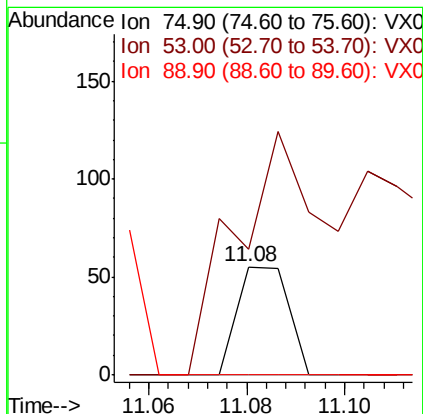
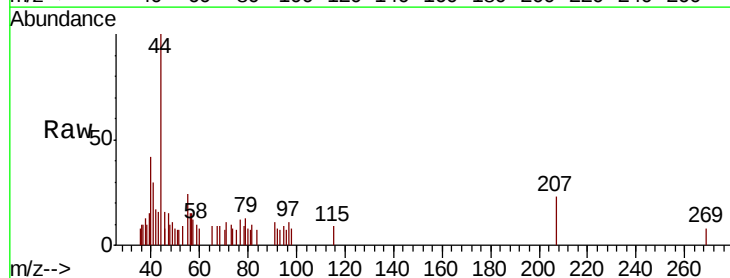
Instrument :
 MSVOA_X
 ClientSampleId :
 T6-S1-(0)

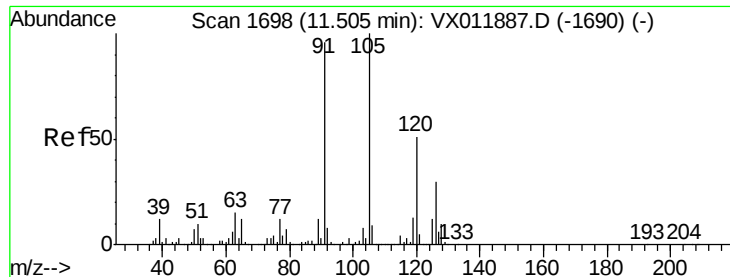
Tot Ion:105 Resp: 21
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.3 75.9#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 208.473 ug/l
 RT: 11.08 min Scan# 1672
 Delta R.T. 0.01 min
 Lab File: VX011917.D
 Acq: 30 Aug 2019 19:42

Tgt Ion: 75 Resp: 40
 Ion Ratio Lower Upper
 75 100
 53 387.5 77.1 115.7#
 89 0.0 38.2 57.2#





#82

4-Chlorotoluene

Concen: 30.626 ug/l

RT: 11.49 min Scan# 1740

Delta R.T. -0.01 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

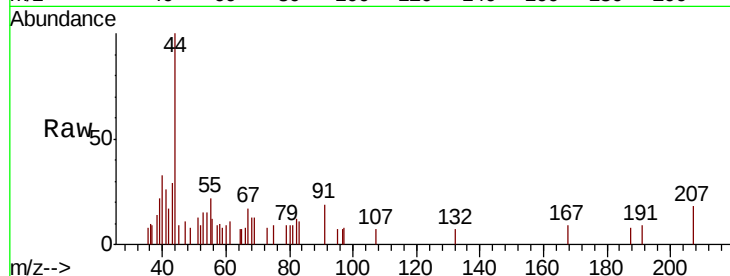
T6-S1-(0)

Tot Ion: 91 Resp: 71

Ion Ratio Lower Upper

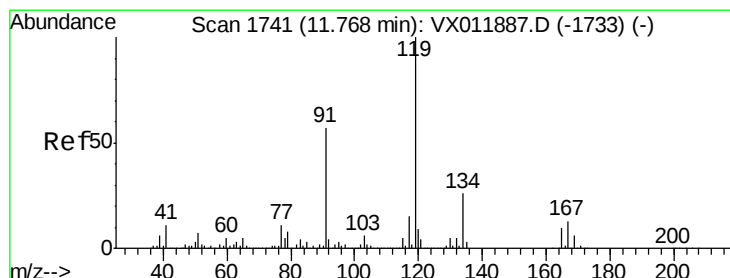
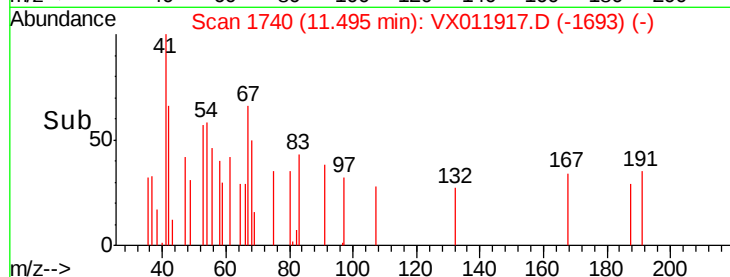
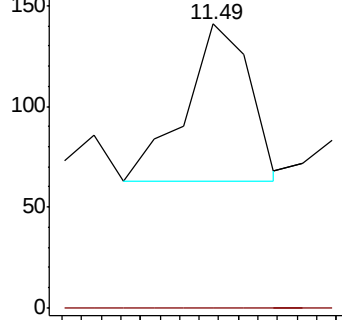
91 100

126 0.0 15.9 47.6#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 8.516 ug/l

RT: 11.74 min Scan# 1781

Delta R.T. -0.02 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

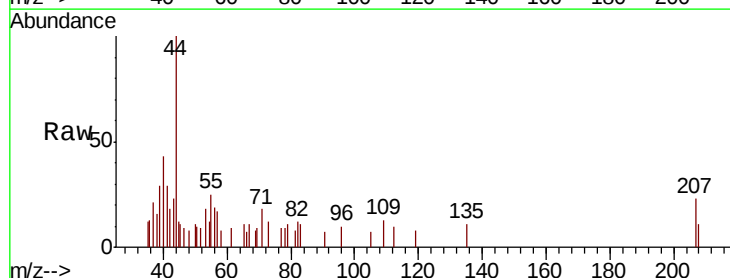
Tgt Ion: 119 Resp: 21

Ion Ratio Lower Upper

119 100

91 938.1 27.9 83.6#

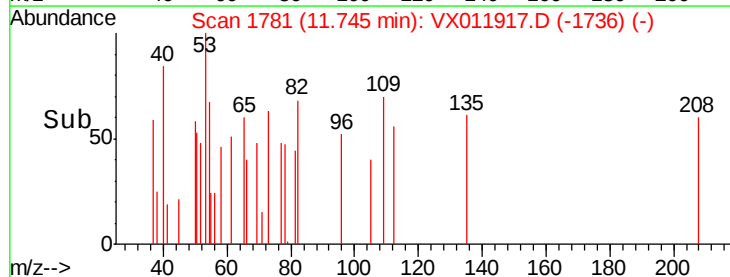
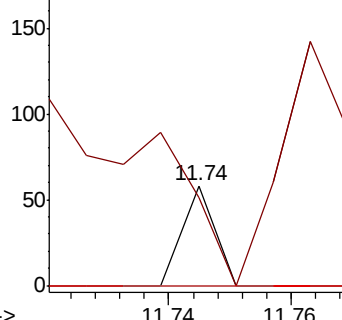
134 0.0 12.3 36.8#

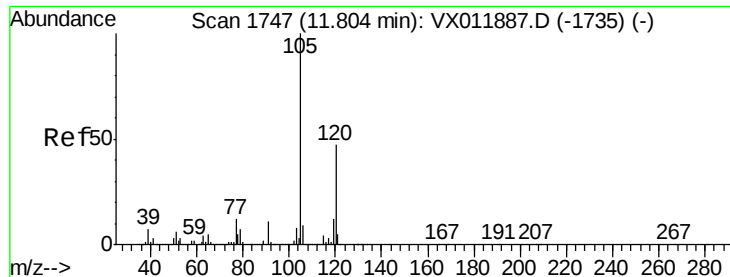


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V

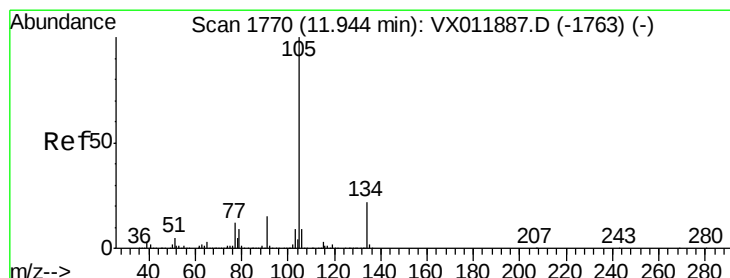
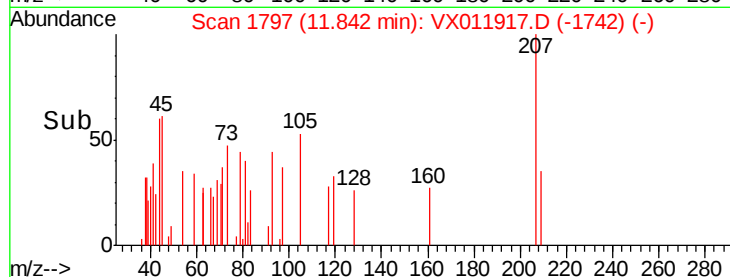
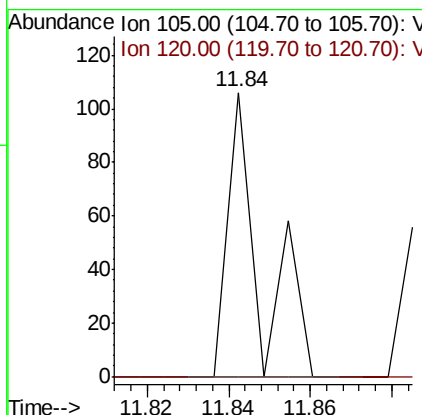
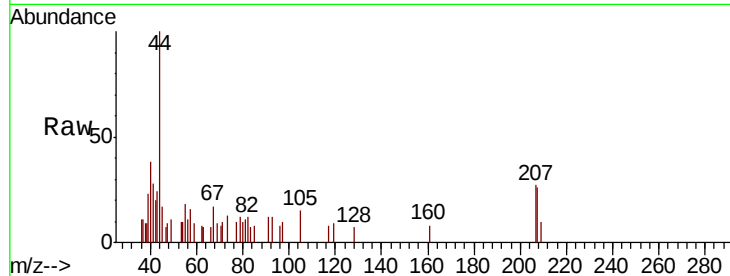




#84
 1,2,4-Trimethylbenzene
 Concen: 24.092 ug/l
 RT: 11.84 min Scan# 1797
 Delta R.T. 0.04 min
 Lab File: VX011917.D
 Acq: 30 Aug 2019 19:42

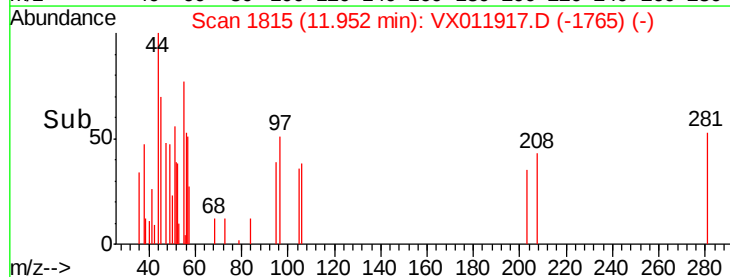
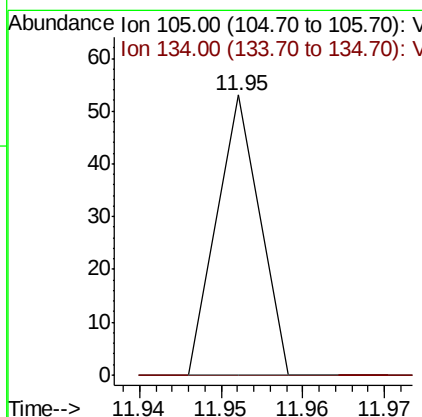
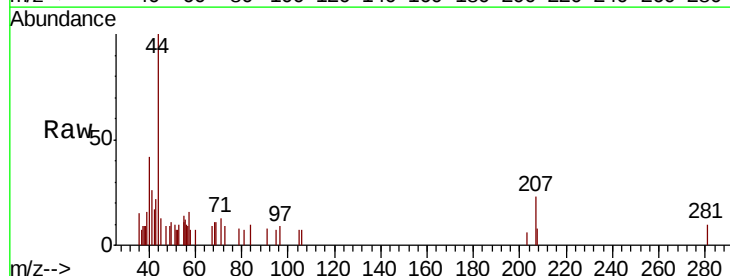
Instrument :
 MSVOA_X
 ClientSampleId :
 T6-S1-(0)

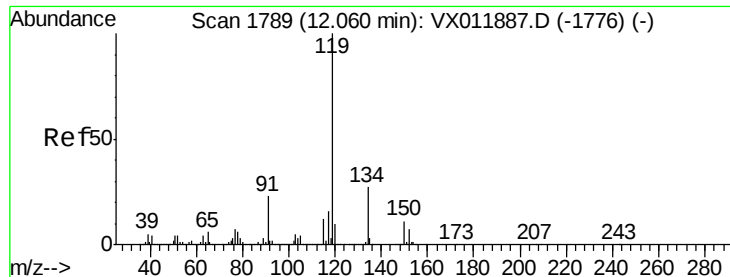
Tot Ion:105 Resp: 60
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.4 70.3#



#85
 sec-Butylbenzene
 Concen: 6.634 ug/l
 RT: 11.95 min Scan# 1815
 Delta R.T. 0.01 min
 Lab File: VX011917.D
 Acq: 30 Aug 2019 19:42

Tgt Ion:105 Resp: 19
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.9 32.7#





#86

p-Isopropyltoluene

Concen: 23.404 ug/l

RT: 12.07 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

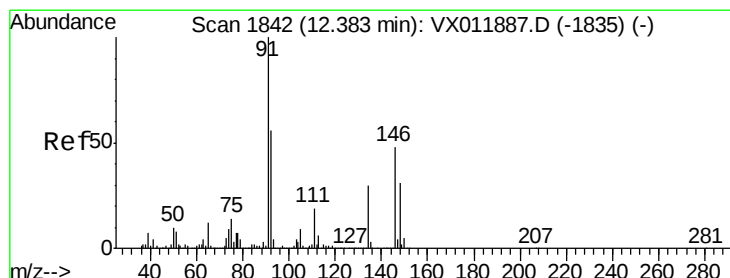
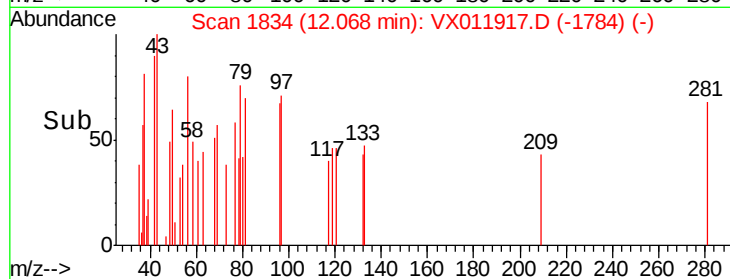
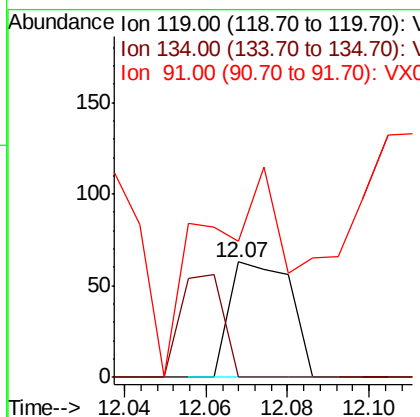
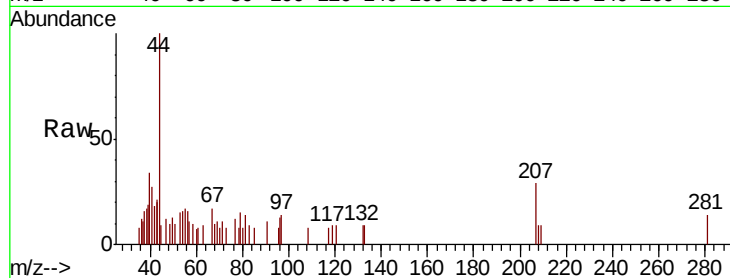
Instrument :

MSVOA_X

ClientSampled :

T6-S1-(0)

Tot Ion:	119	Resp:	65
Ion	Ratio	Lower	Upper
119	100		
134	61.5	13.7	41.0#
91	269.2	11.6	34.7#



#89

n-Butylbenzene

Concen: 45.175 ug/l

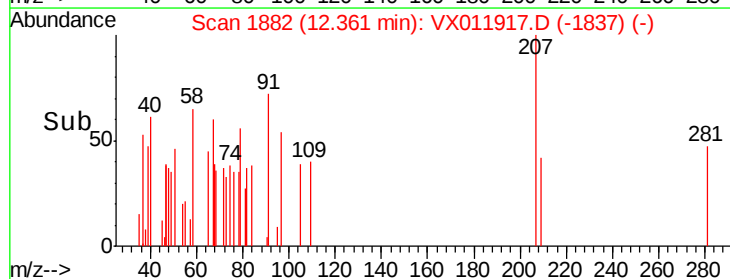
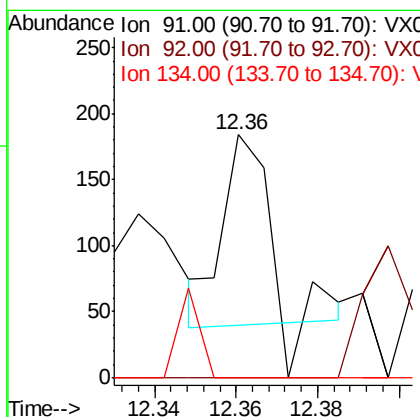
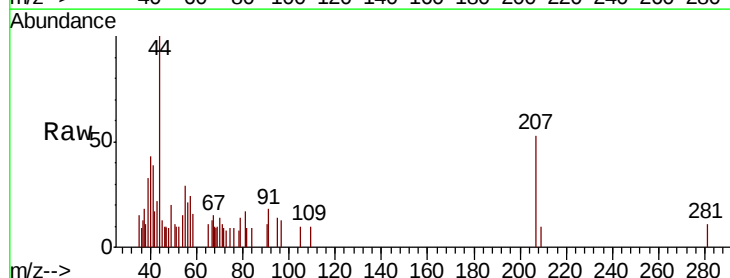
RT: 12.36 min Scan# 1882

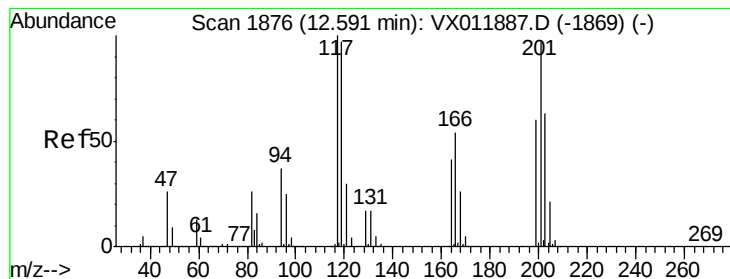
Delta R.T. -0.02 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Tgt Ion:	91	Resp:	111
Ion	Ratio	Lower	Upper
91	100		
92	0.0	27.6	82.8#
134	22.5	14.8	44.3





#90

Hexachloroethane

Concen: 35.363 ug/l

RT: 12.53 min Scan# 1910

Delta R.T. -0.06 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

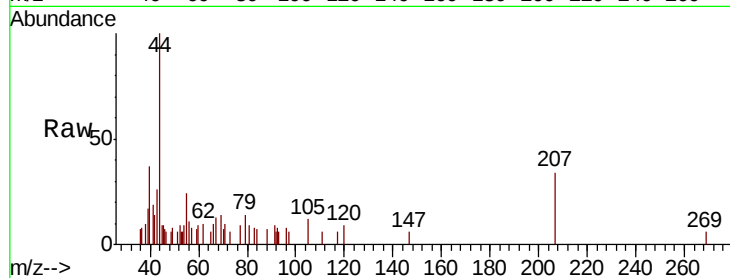
T6-S1-(0)

Tot Ion:117 Resp: 19

Ion Ratio Lower Upper

117 100

201 0.0 52.8 158.5#

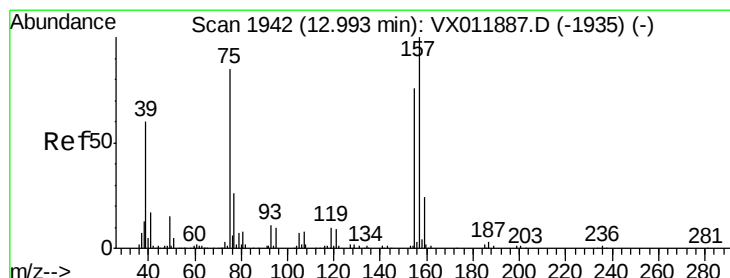
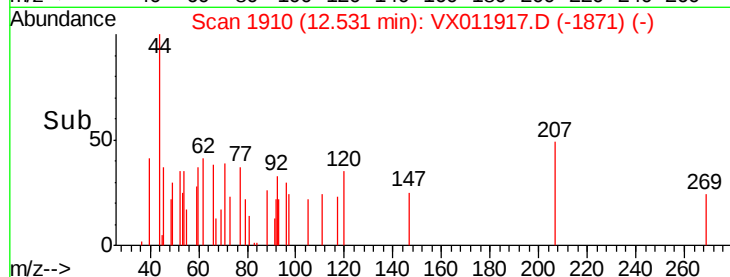


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.53

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 653.439 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

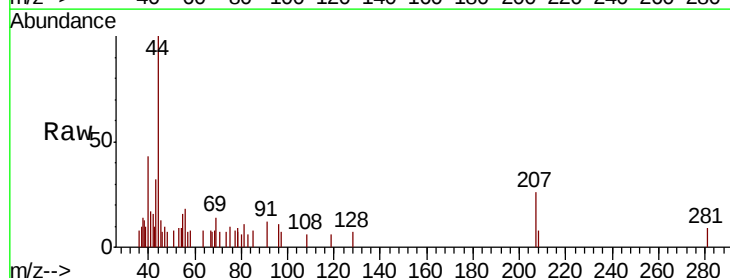
Tgt Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.4#

157 0.0 63.9 191.7#



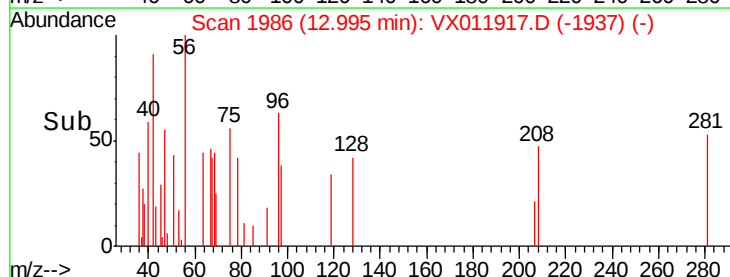
Abundance Ion 74.90 (74.60 to 75.60): VX0

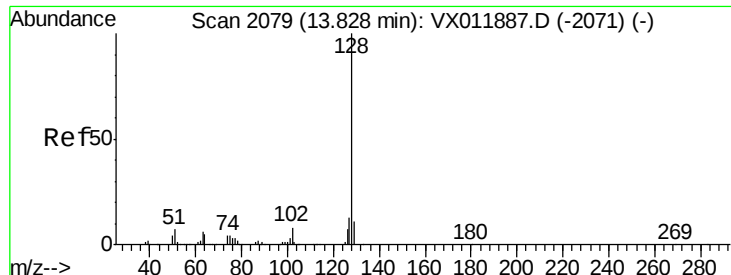
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

12.99

Time-->





#95

Naphthalene

Concen: 11.281 ug/l

RT: 13.84 min Scan# 2125

Delta R.T. 0.01 min

Lab File: VX011917.D

Acq: 30 Aug 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

T6-S1-(0)

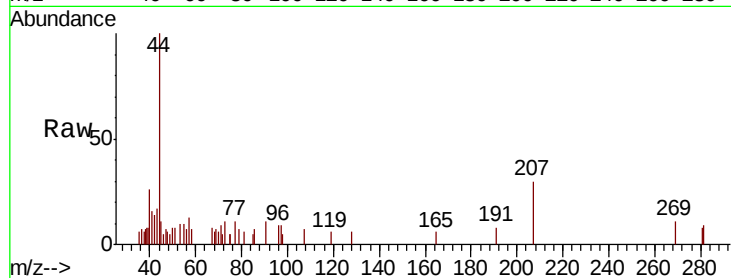
Tot Ion:128 Resp: 23

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



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

