

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062520\
 Data File : VX016958.D
 Acq On : 25 Jun 2020 16:59
 Operator : JC/SP
 Sample : L3125-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-2

Quant Time: Jun 26 09:27:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	38060	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	219890	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	190722	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.04	65	88102	29.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.13%
60) 4-Bromofluorobenzene	11.12	95	89290	28.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.57%
63) Toluene-d8	8.70	98	254004	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

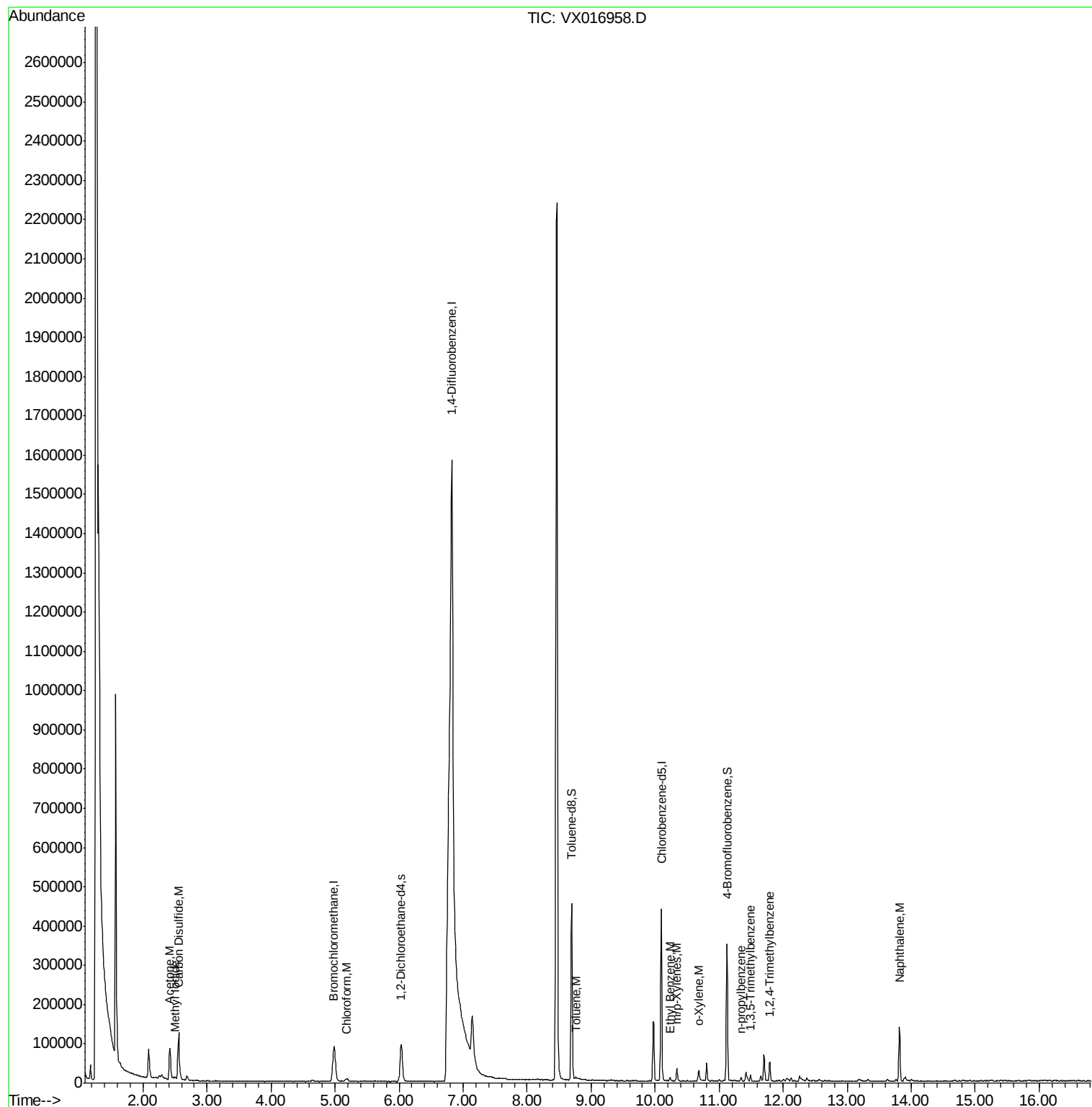
Target Compounds					Ovalue
11) Methyl Iodide	2.50	142	7555	2.597 ug/l	98
15) Acetone	2.42	58	27987	83.080 ug/l	98
16) Carbon Disulfide	2.55	76	150290	21.942 ug/l	98
25) Chloroform	5.18	83	9231	2.026 ug/l #	79
62) Toluene	8.76	91	4817	0.462 ug/l	96
66) Ethyl Benzene	10.23	91	3966	0.343 ug/l #	85
67) m/p-Xylenes	10.34	106	7374	1.690 ug/l	96
68) o-Xylene	10.68	106	5210	1.243 ug/l	97
74) n-propylbenzene	11.34	91	5117	0.379 ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	5691	0.596 ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	20667	2.157 ug/l	99
91) Naphthalene	13.82	128	79925	7.509 ug/l	99

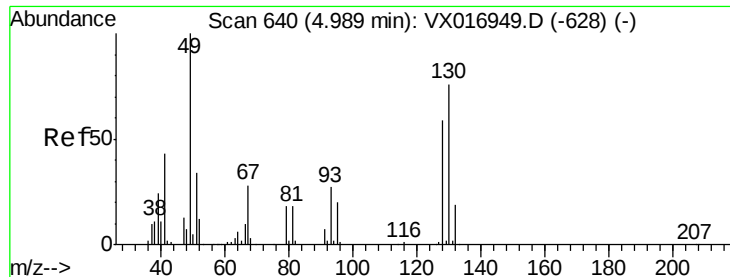
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062520\
Data File : VX016958.D
Acq On : 25 Jun 2020 16:59
Operator : JC/SP
Sample : L3125-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-2

Quant Time: Jun 26 09:27:00 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jun 26 09:03:25 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.01 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

TW-2

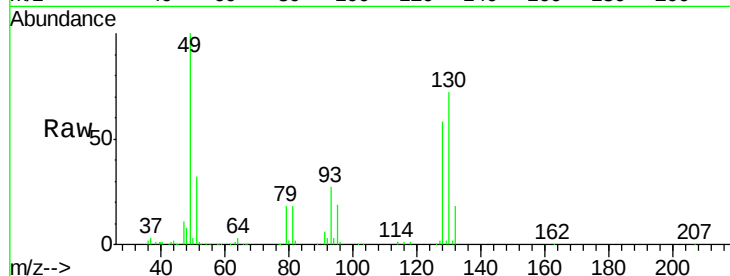
Tot Ion:128 Resp: 38060

Ion Ratio Lower Upper

128 100

49 167.4 0.0 428.0

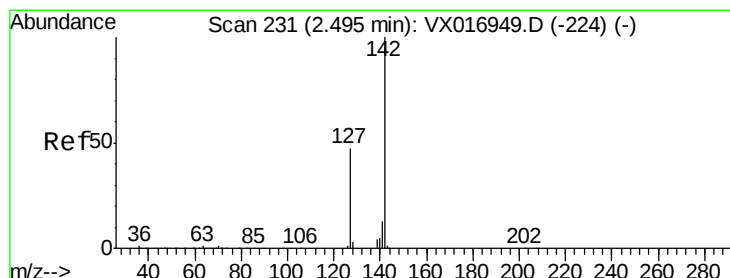
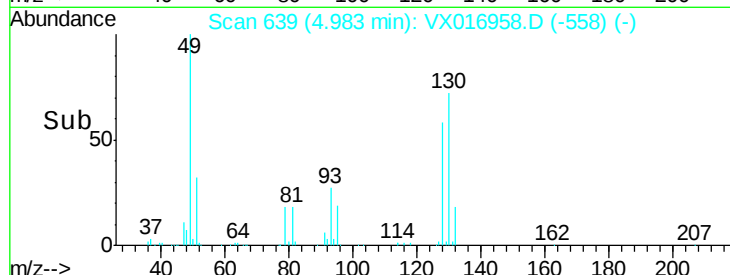
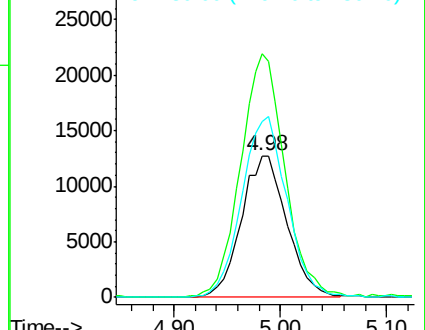
130 127.1 0.0 318.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#11

Methyl Iodide

Concen: 2.597 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

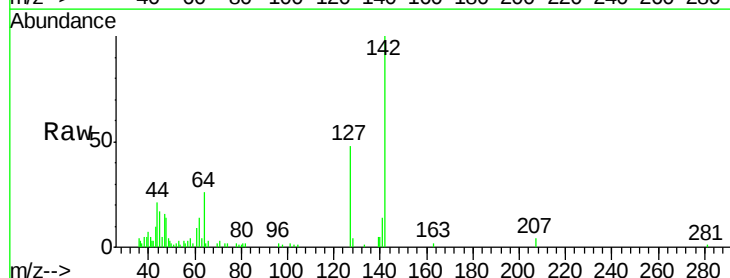
Tgt Ion:142 Resp: 7555

Ion Ratio Lower Upper

142 100

127 48.1 23.3 69.9

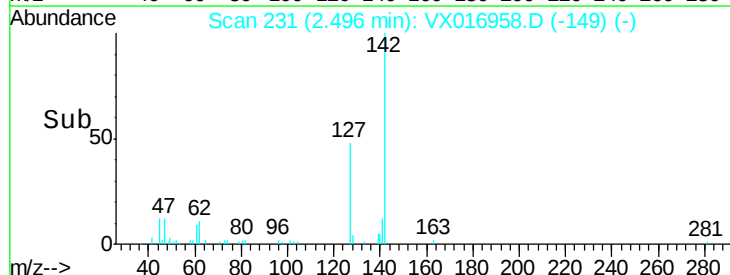
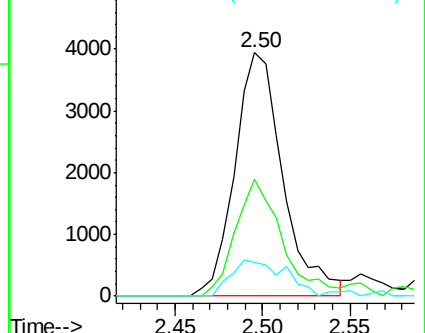
141 13.4 6.7 20.1

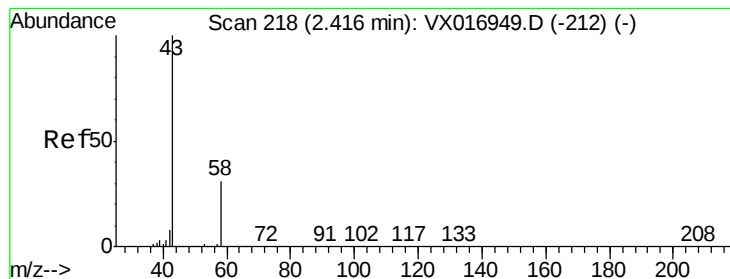


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#15

Acetone

Concen: 83.080 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

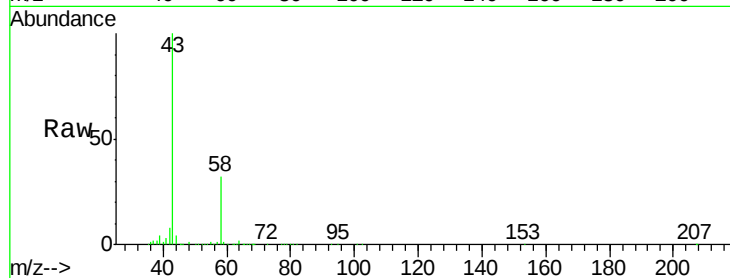
TW-2

Tot Ion: 58 Resp: 27987

Ion Ratio Lower Upper

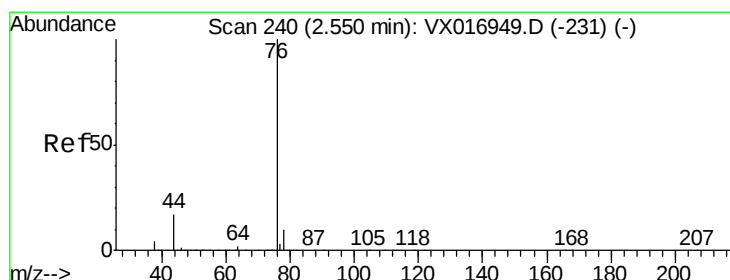
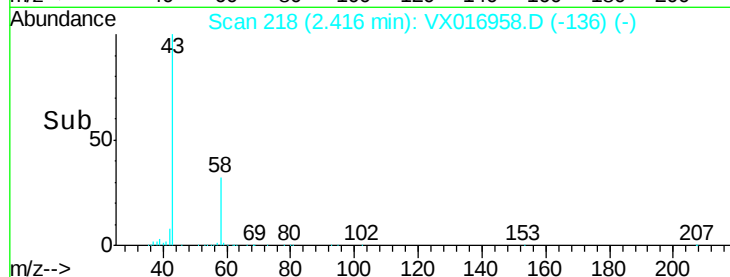
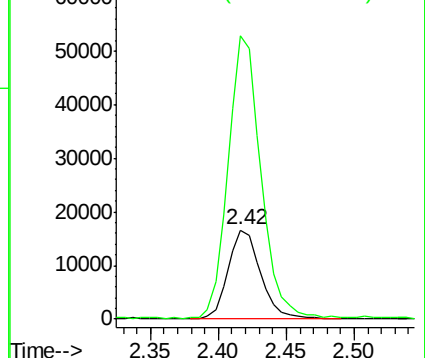
58 100

43 317.8 257.6 386.4



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 21.942 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016958.D

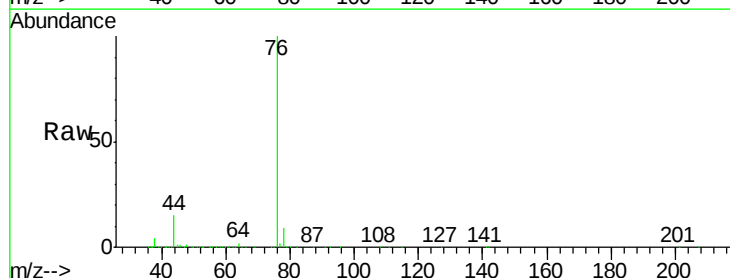
Acq: 25 Jun 2020 16:59

Tgt Ion: 76 Resp: 150290

Ion Ratio Lower Upper

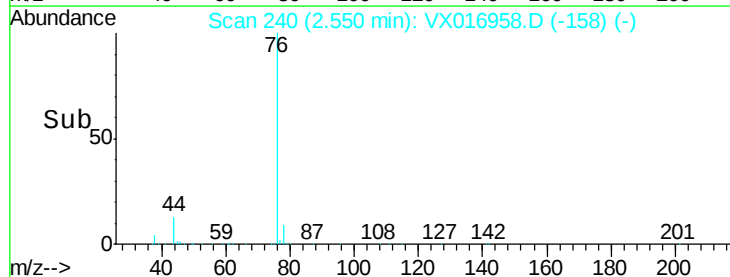
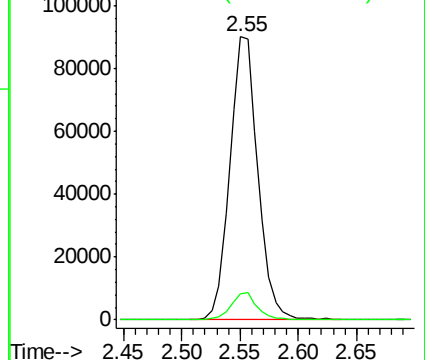
76 100

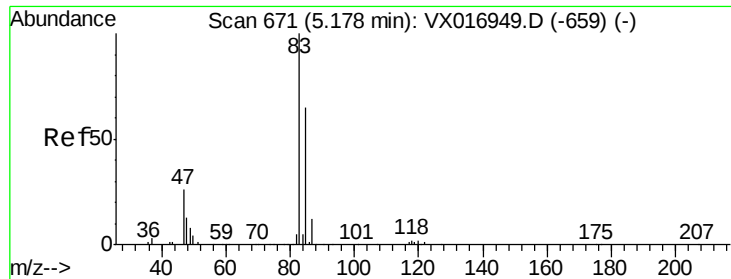
78 8.8 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#25

Chloroform

Concen: 2.026 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

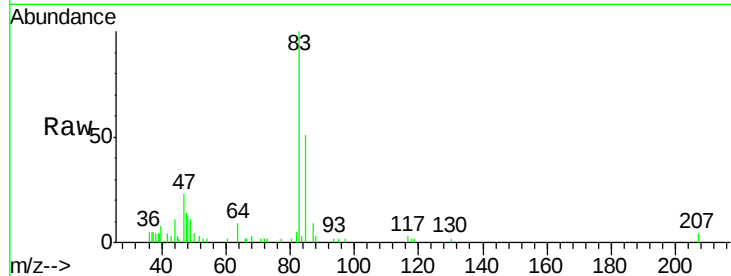
TW-2

Tot Ion: 83 Resp: 9231

Ion Ratio Lower Upper

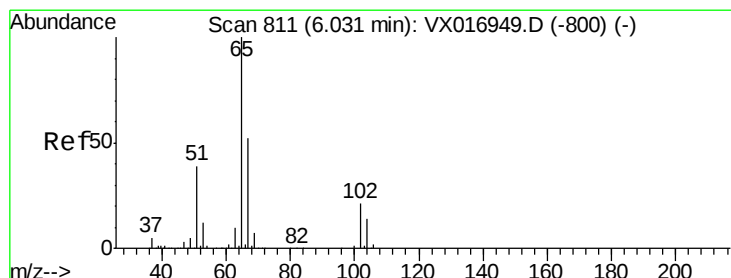
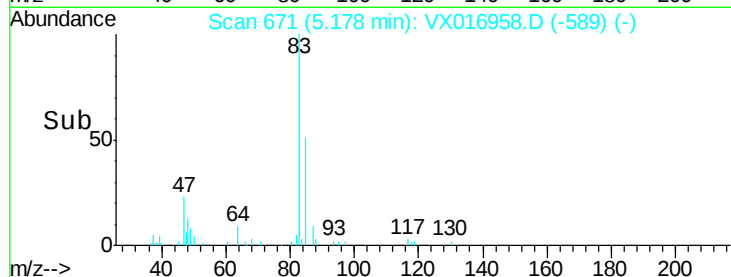
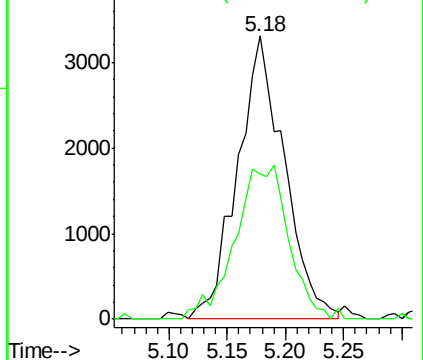
83 100

85 48.2 52.1 78.1#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 29.740 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016958.D

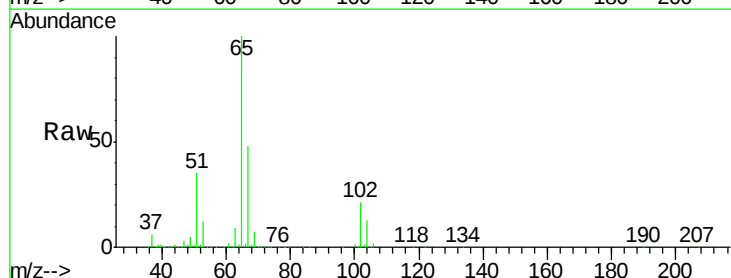
Acq: 25 Jun 2020 16:59

Tgt Ion: 65 Resp: 88102

Ion Ratio Lower Upper

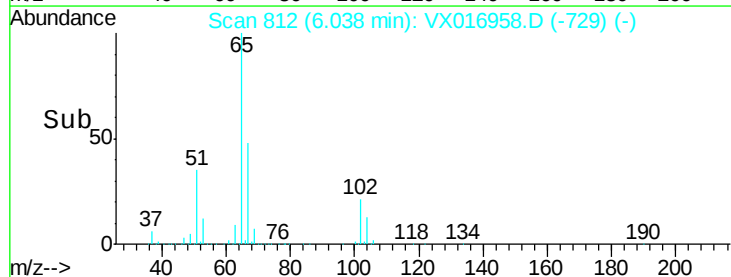
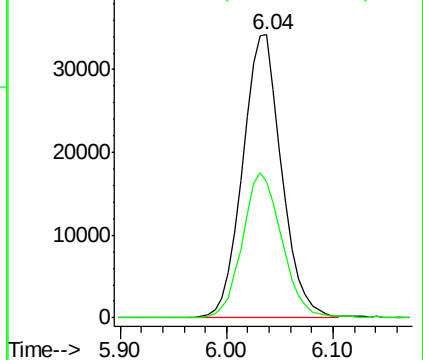
65 100

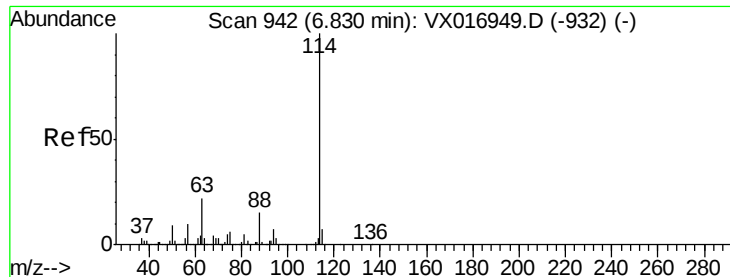
67 51.8 41.5 62.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

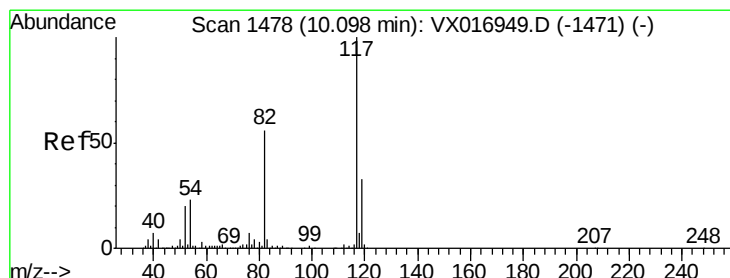
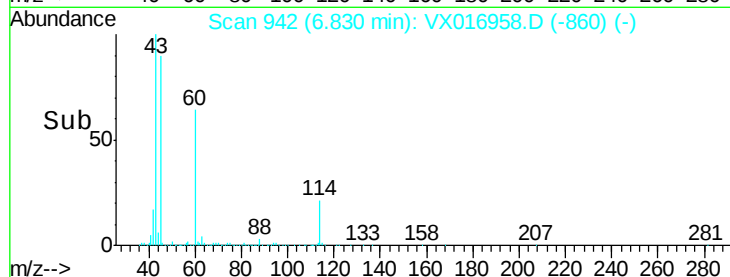
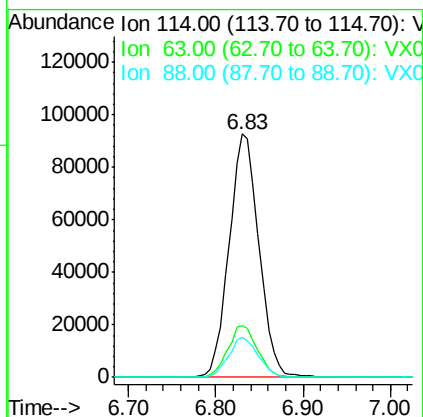
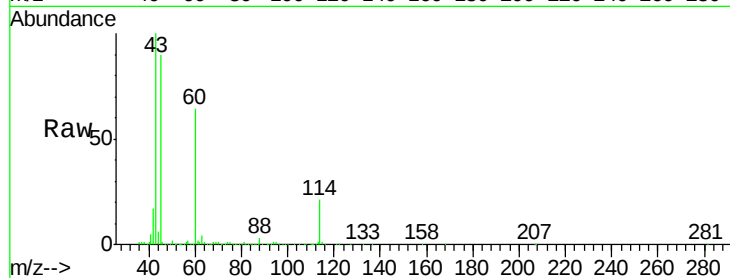




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX016958.D
 Acq: 25 Jun 2020 16:59

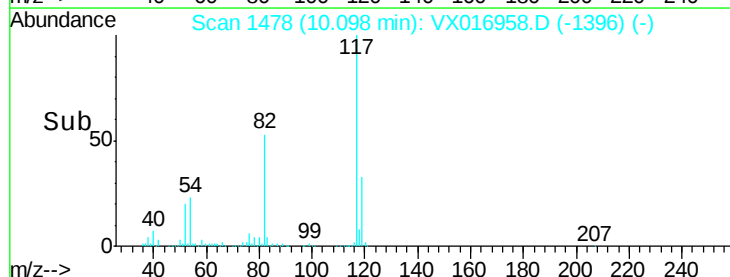
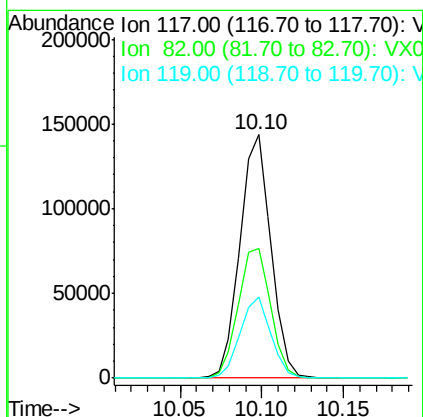
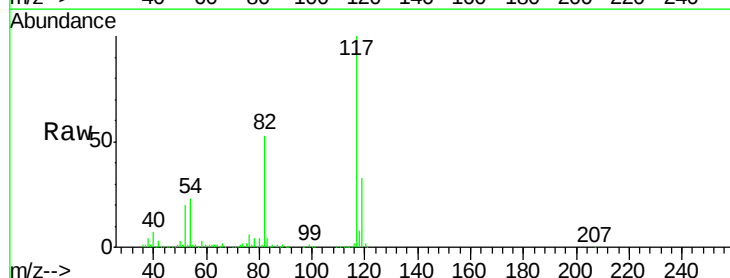
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-2

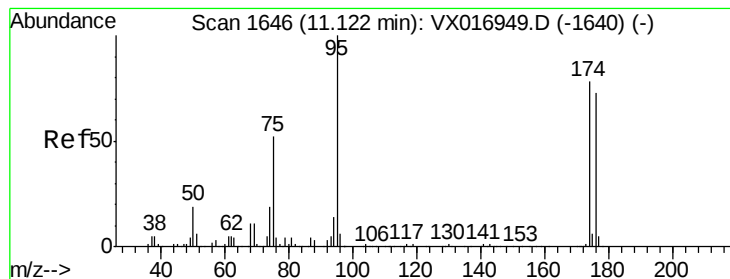
Tot Ion:114 Resp: 219890
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.4 26.2
 88 16.3 13.0 19.6



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 10.10 min Scan# 1478
 Delta R.T. 0.00 min
 Lab File: VX016958.D
 Acq: 25 Jun 2020 16:59

Tgt Ion:117 Resp: 190722
 Ion Ratio Lower Upper
 117 100
 82 56.2 44.9 67.3
 119 32.8 25.8 38.8





#60

4-Bromofluorobenzene

Concen: 28.072 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

TW-2

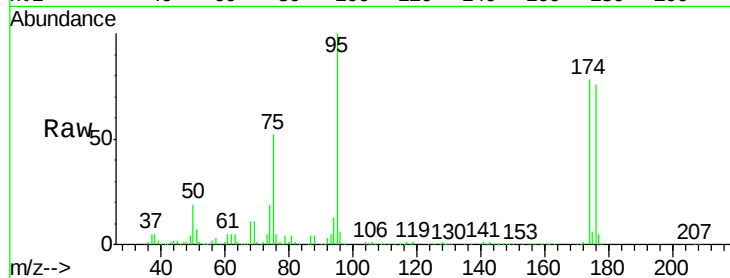
Tot Ion: 95 Resp: 89290

Ion Ratio Lower Upper

95 100

174 77.9 62.2 93.4

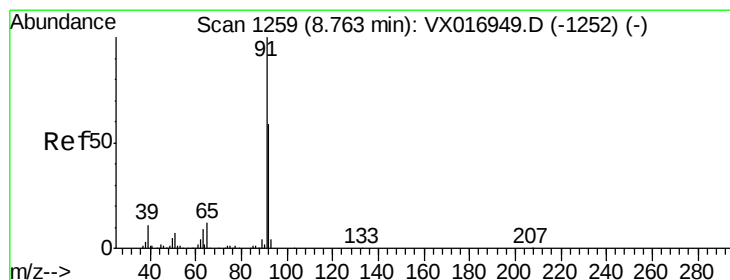
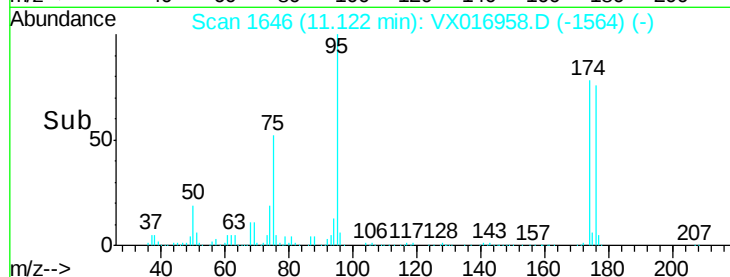
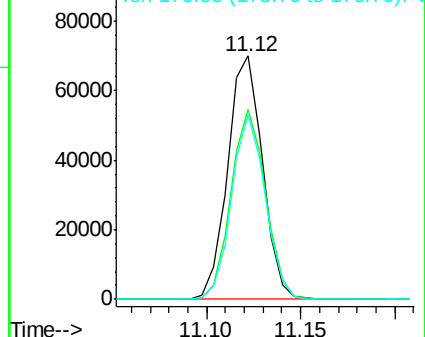
176 73.6 58.9 88.3



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): VX0

Ion 176.00 (175.70 to 176.70): VX0



#62

Toluene

Concen: 0.462 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX016958.D

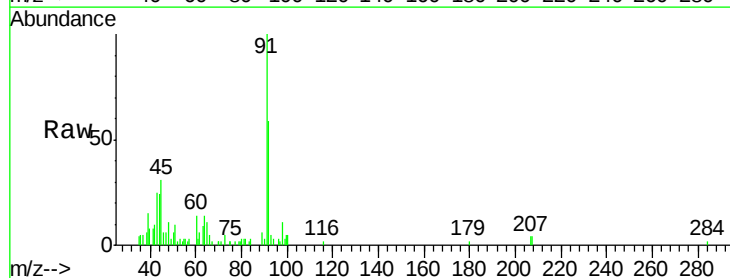
Acq: 25 Jun 2020 16:59

Tgt Ion: 91 Resp: 4817

Ion Ratio Lower Upper

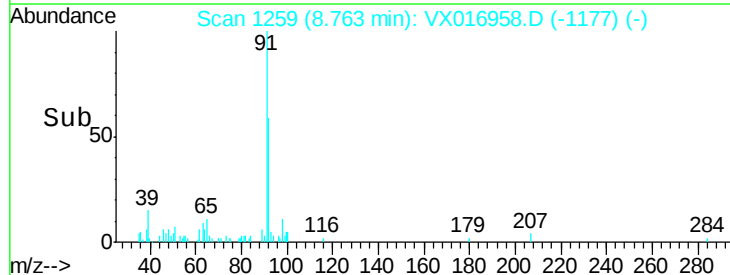
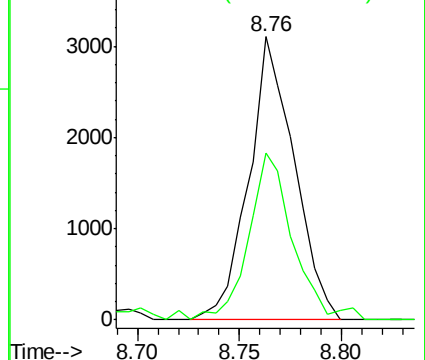
91 100

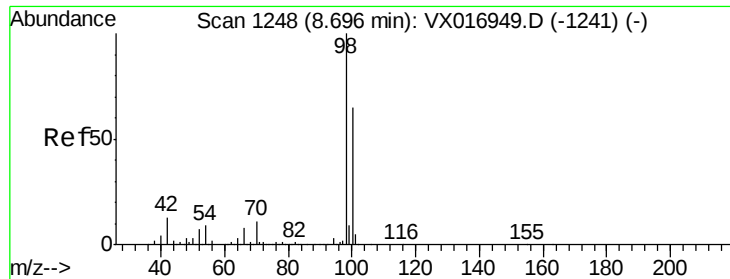
92 55.5 46.8 70.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.213 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

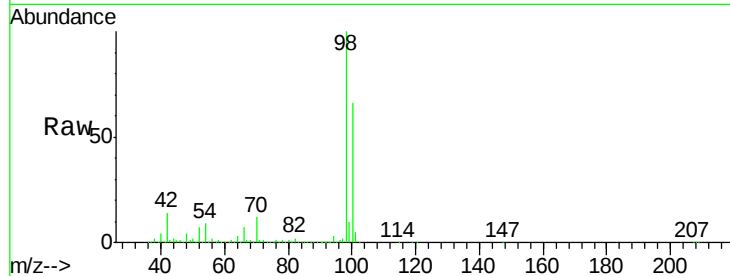
TW-2

Tot Ion: 98 Resp: 254004

Ion Ratio Lower Upper

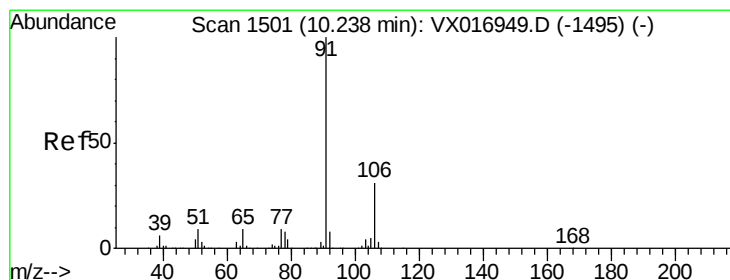
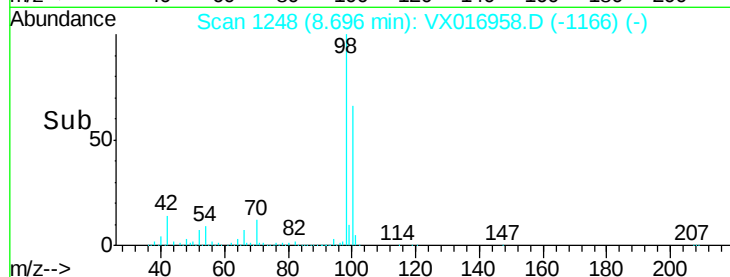
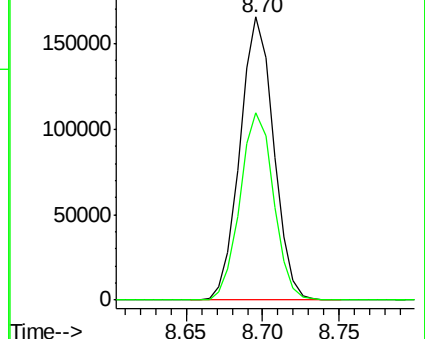
98 100

100 65.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#66

Ethyl Benzene

Concen: 0.343 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.01 min

Lab File: VX016958.D

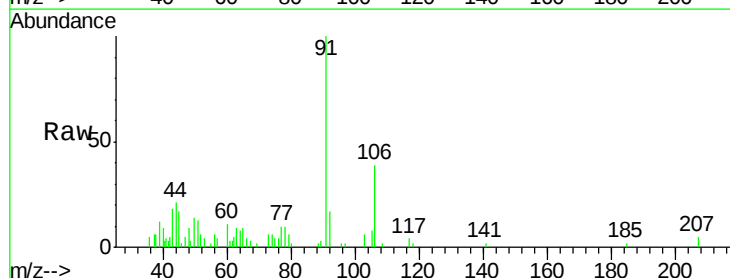
Acq: 25 Jun 2020 16:59

Tgt Ion: 91 Resp: 3966

Ion Ratio Lower Upper

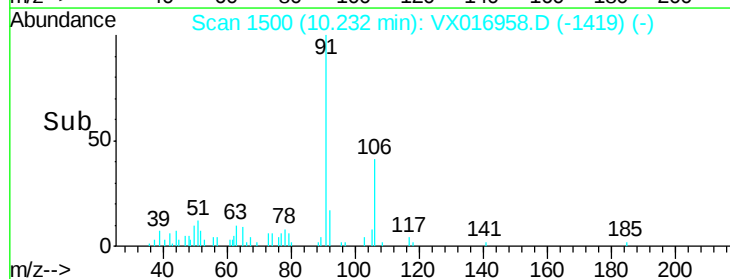
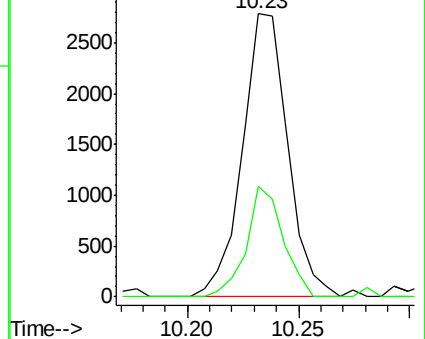
91 100

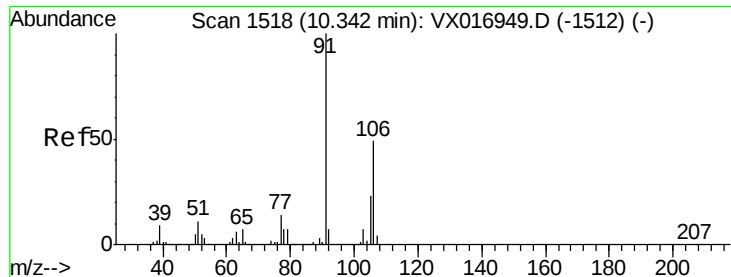
106 39.1 24.8 37.2#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 1.690 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

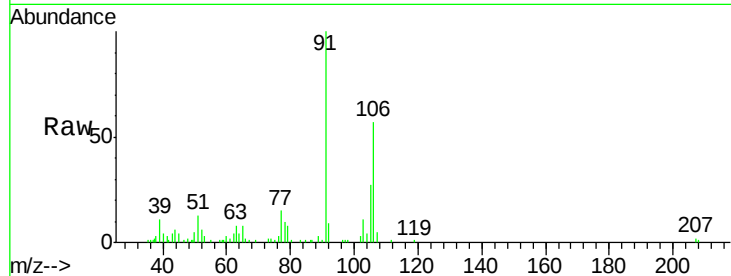
TW-2

Tot Ion:106 Resp: 7374

Ion Ratio Lower Upper

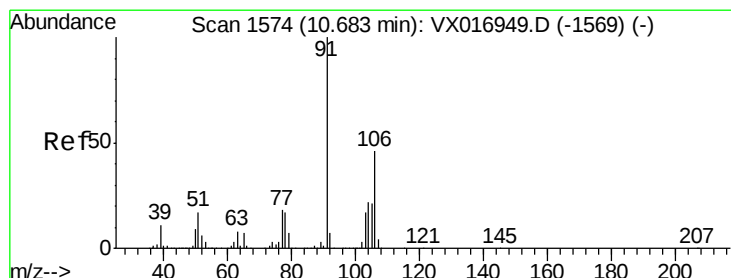
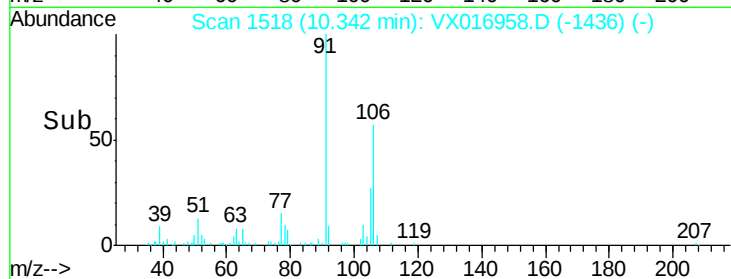
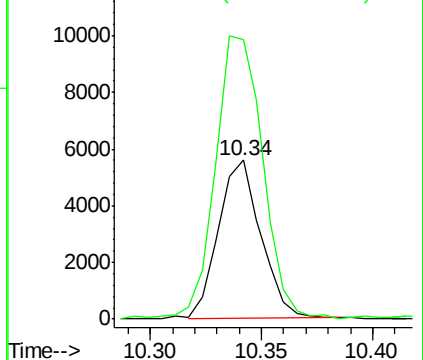
106 100

91 200.1 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 1.243 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX016958.D

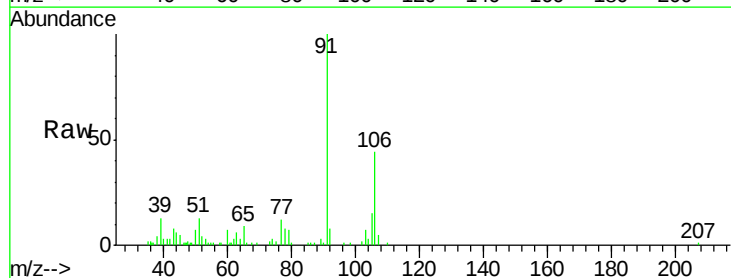
Acq: 25 Jun 2020 16:59

Tgt Ion:106 Resp: 5210

Ion Ratio Lower Upper

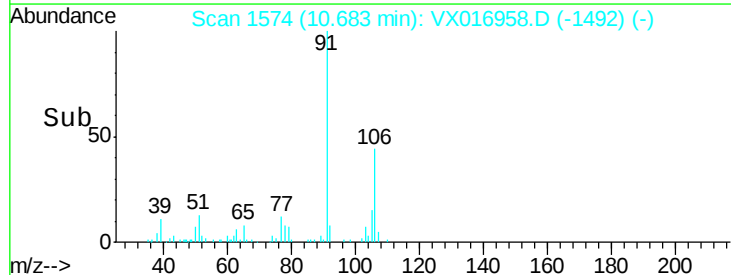
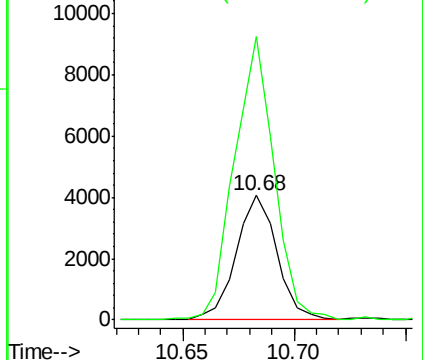
106 100

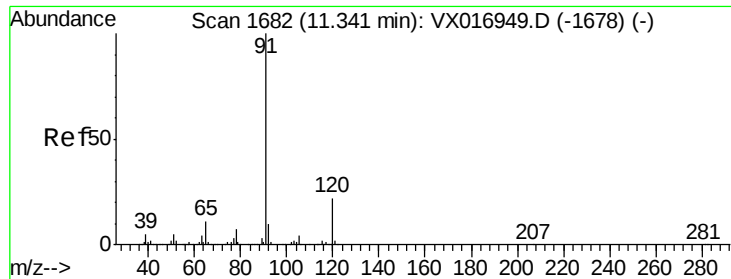
91 218.9 107.3 321.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#74

n-propylbenzene

Concen: 0.379 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

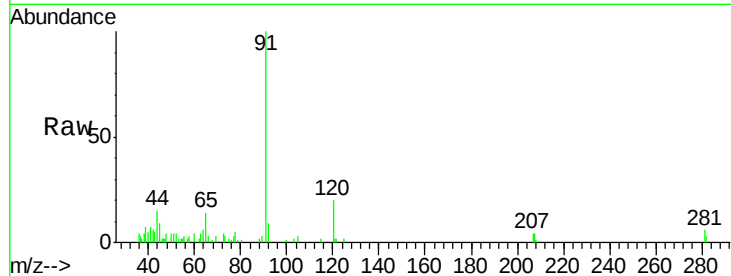
TW-2

Tot Ion: 91 Resp: 5117

Ion Ratio Lower Upper

91 100

120 22.6 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VX016949.D (-1678) (-)

Ion 120.00 (119.70 to 120.70): VX016949.D (-1678) (-)

11.34

4000

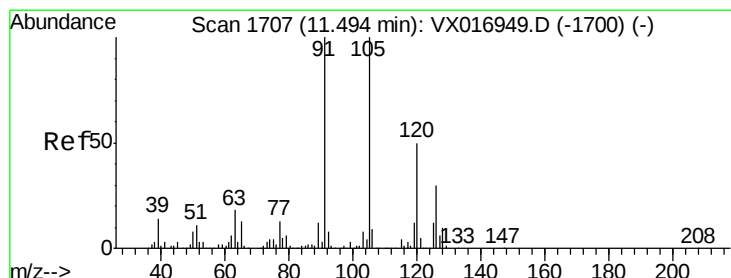
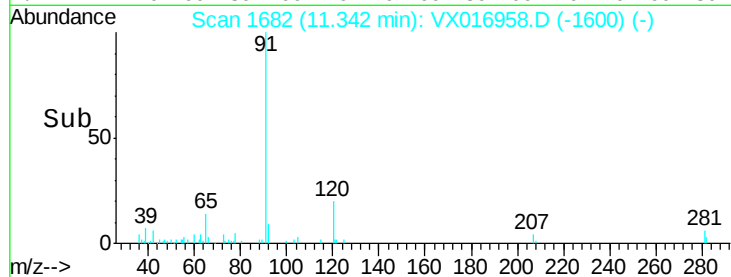
3000

2000

1000

0

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 0.596 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX016958.D

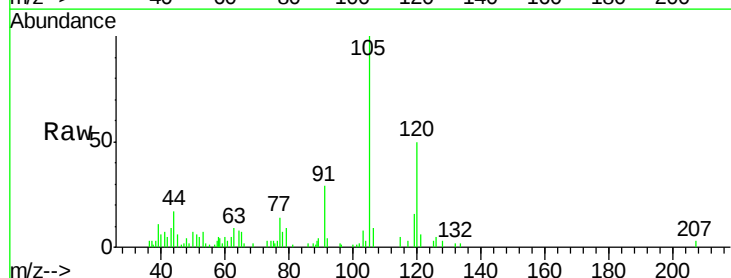
Acq: 25 Jun 2020 16:59

Tgt Ion: 105 Resp: 5691

Ion Ratio Lower Upper

105 100

120 49.2 0.0 99.4



Abundance Ion 105.00 (104.70 to 105.70): VX016949.D (-1700) (-)

Ion 120.00 (119.70 to 120.70): VX016949.D (-1700) (-)

11.49

5000

4000

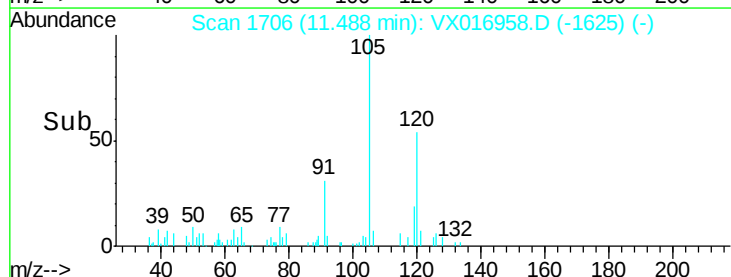
3000

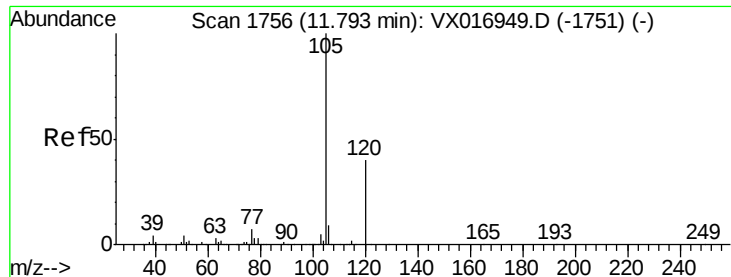
2000

1000

0

Time-->





#80

1,2,4-Trimethylbenzene

Concen: 2.157 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

Instrument :

MSVOA_X

ClientSampled :

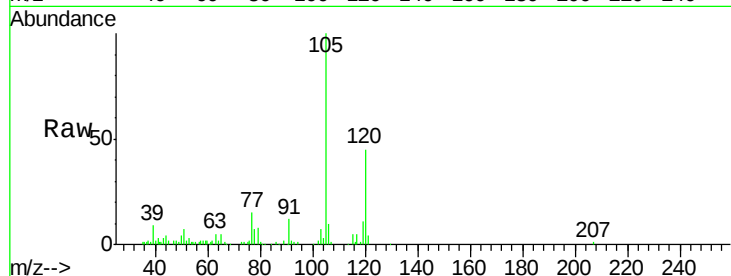
TW-2

Tot Ion:105 Resp: 20667

Ion Ratio Lower Upper

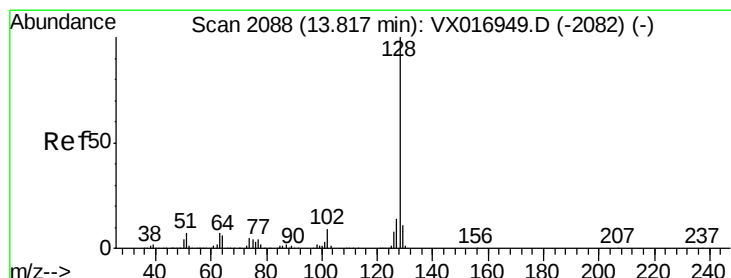
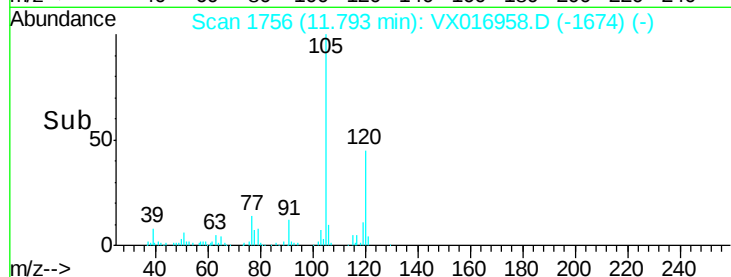
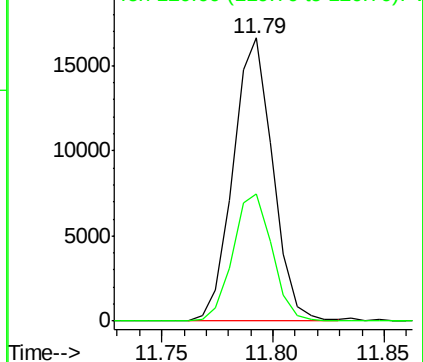
105 100

120 44.5 0.0 89.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#91

Naphthalene

Concen: 7.509 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016958.D

Acq: 25 Jun 2020 16:59

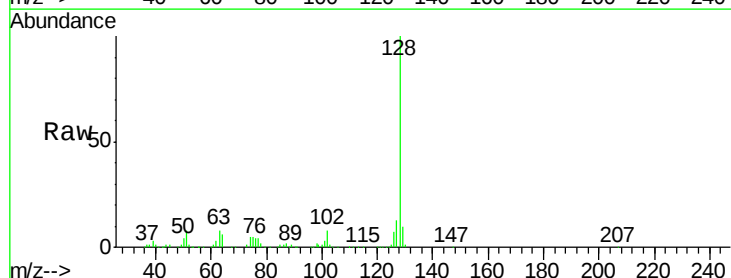
Tgt Ion:128 Resp: 79925

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

129 10.7 9.0 13.4



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

