

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013429.D
 Acq On : 14 Nov 2019 18:30
 Operator : JC/SP
 Sample : K5859-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:59:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	104165	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	592017	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	518553	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	226906	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%
60) 4-Bromofluorobenzene	11.14	95	238020	28.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.20%
63) Toluene-d8	8.71	98	696900	29.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.07%

Target Compounds

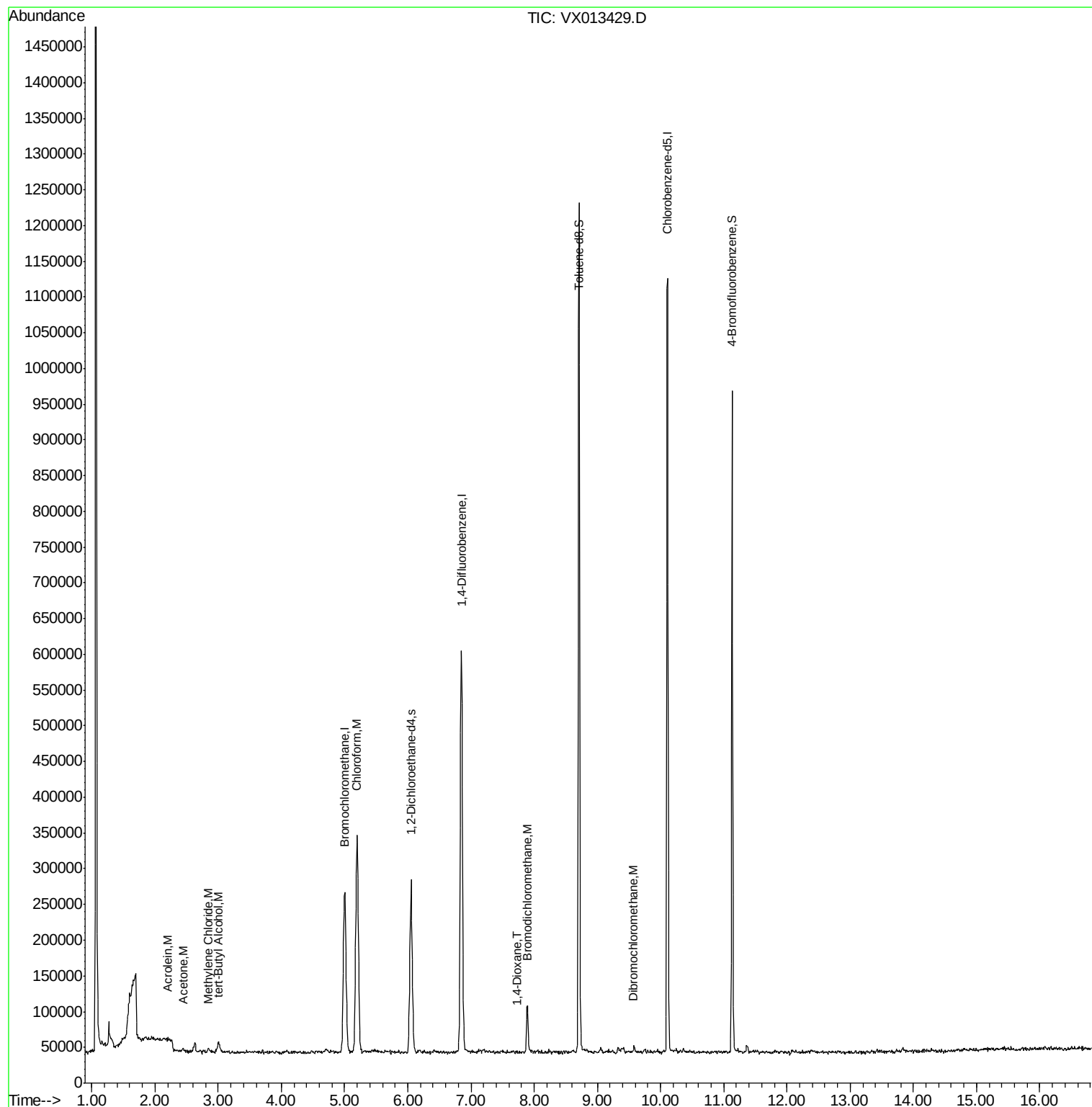
					Ovalue
13) Acrolein	2.20	56	392	0.327 ug/l	95
15) Acetone	2.44	58	1223	0.974 ug/l	79
18) Methylene Chloride	2.84	84	2477	0.339 ug/l #	77
23) tert-Butyl Alcohol	3.00	59	9374	4.699 ug/l #	98
25) Chloroform	5.20	83	357836	29.448 ug/l	98
41) Bromodichloromethane	7.89	83	46065	5.000 ug/l	93
45) 1,4-Dioxane	7.73	88	151	0.782 ug/l #	21
53) Dibromochloromethane	9.58	129	3350	0.453 ug/l	82

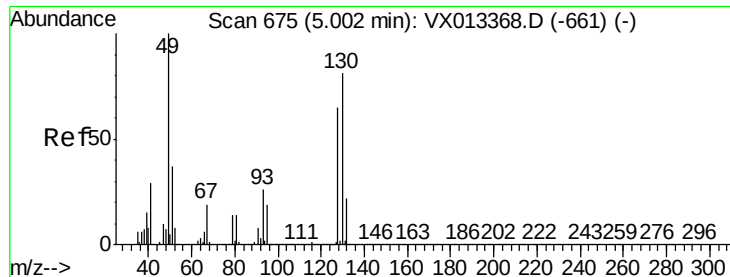
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

Instrument :
MSVOA_X
ClientSampleId :

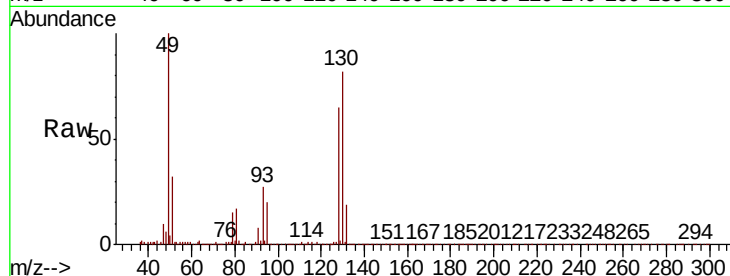
Tot Ion:128 Resp: 104165

Ion Ratio Lower Upper

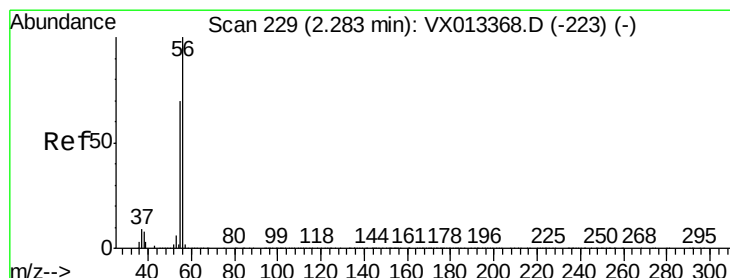
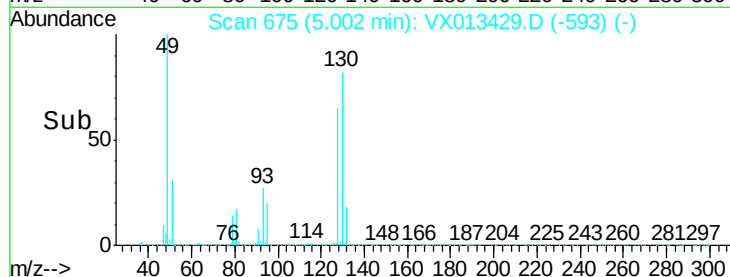
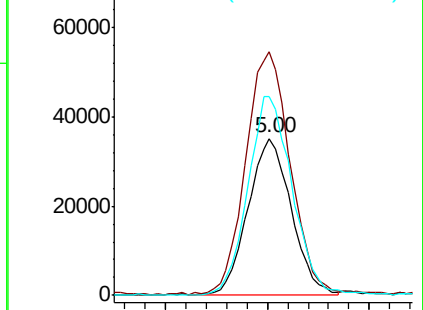
128 100

49 155.9 0.0 388.3

130 129.3 0.0 318.5



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



#13

Acrolein

Concen: 0.327 ug/l

RT: 2.20 min Scan# 216

Delta R.T. -0.08 min

Lab File: VX013429.D

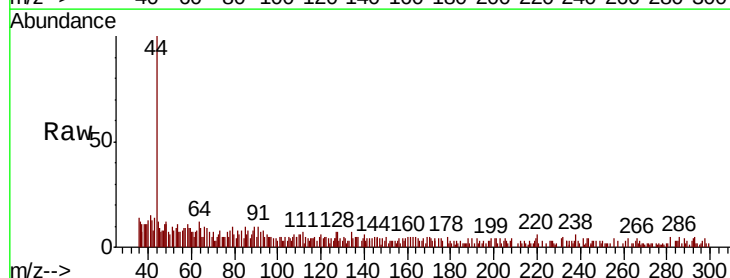
Acq: 14 Nov 2019 18:30

Tgt Ion: 56 Resp: 392

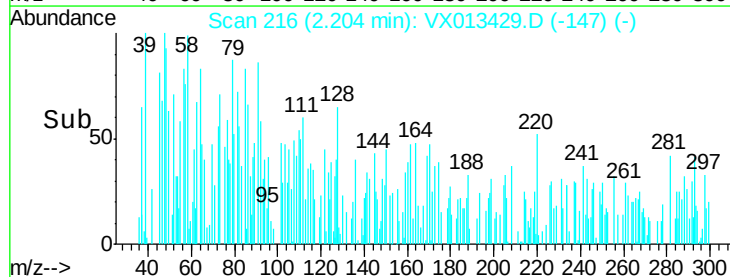
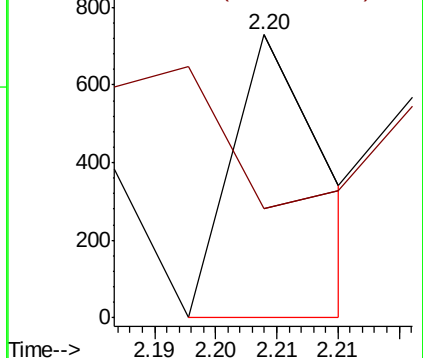
Ion Ratio Lower Upper

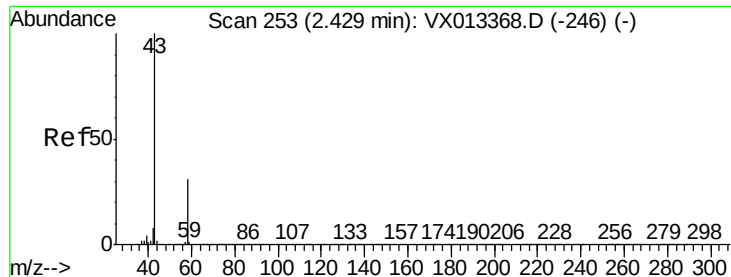
56 100

55 74.0 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 0.974 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

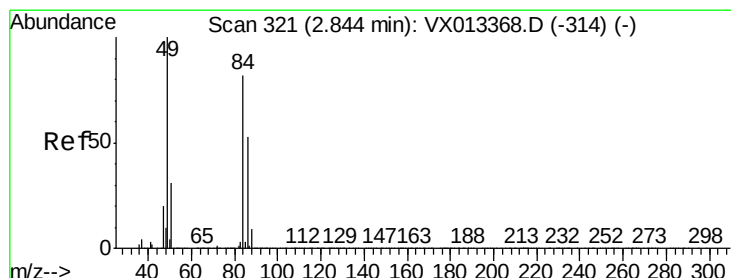
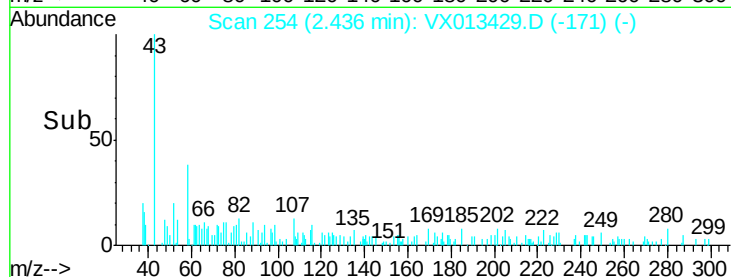
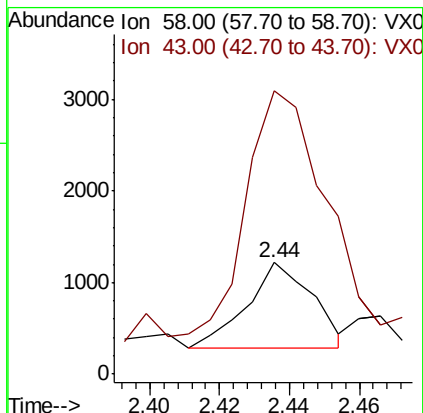
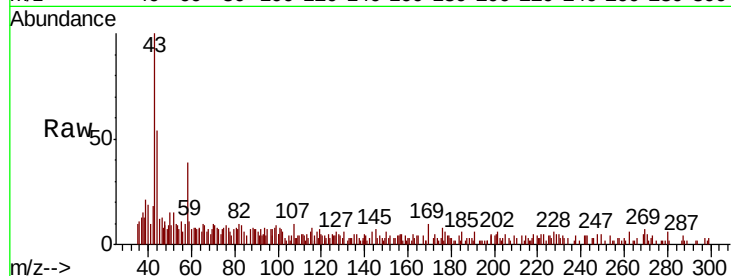
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 58 Resp: 1223

Ion Ratio Lower Upper

58 100

43 284.0 261.4 392.2



#18

Methylene Chloride

Concen: 0.339 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

Tgt Ion: 84 Resp: 2477

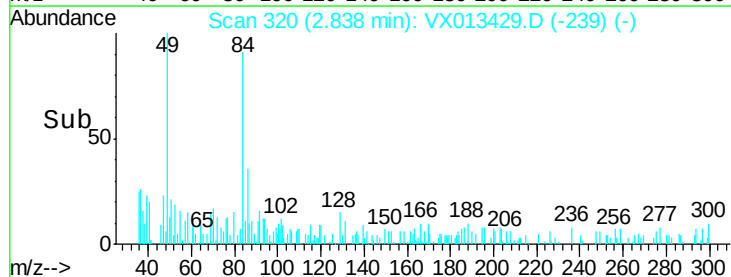
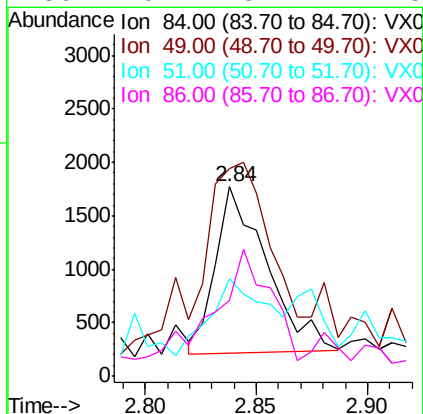
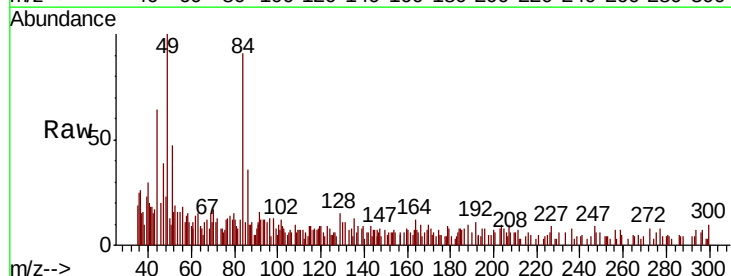
Ion Ratio Lower Upper

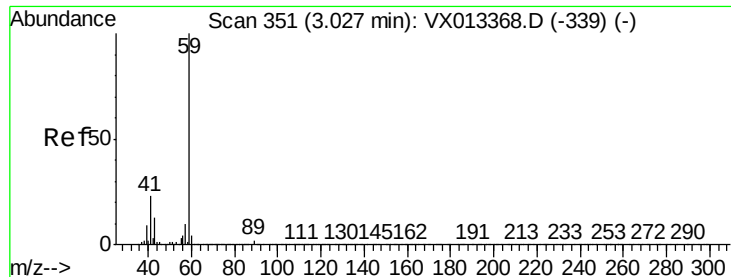
84 100

49 103.8 96.8 145.2

51 42.0 30.0 45.0

86 29.2 51.7 77.5#



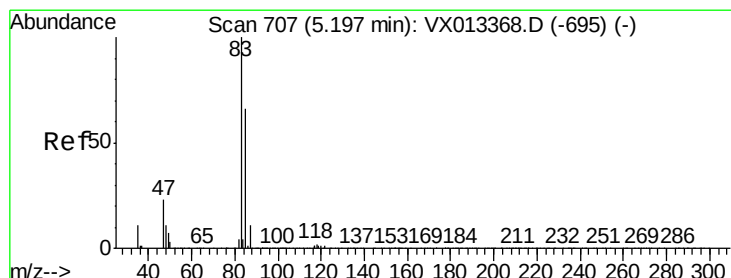
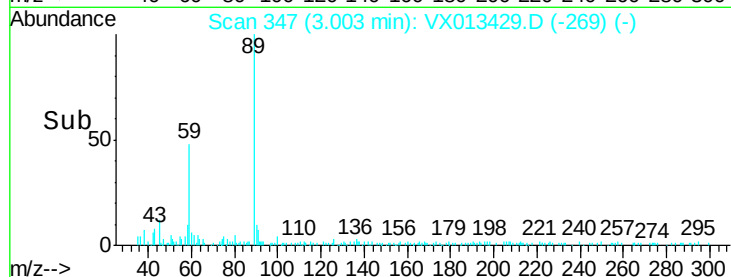
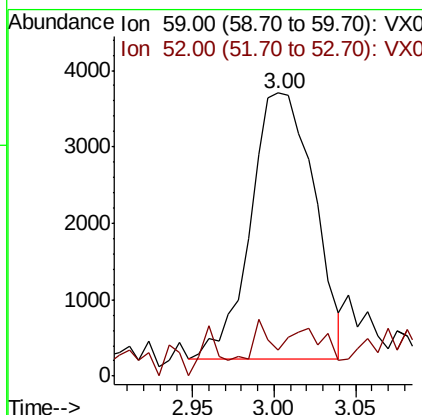
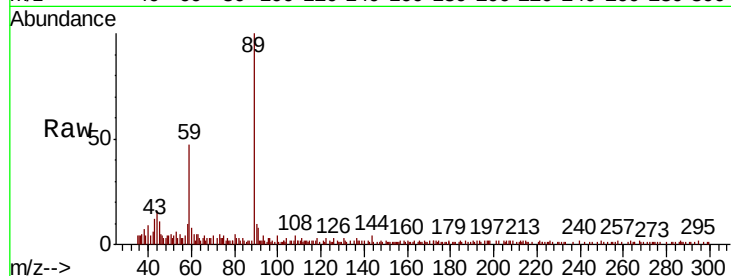


#23

tert-Butyl Alcohol
 Concen: 4.699 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.02 min
 Lab File: VX013429.D
 Acq: 14 Nov 2019 18:30

Instrument :
 MSVOA_X
 ClientSampleId :

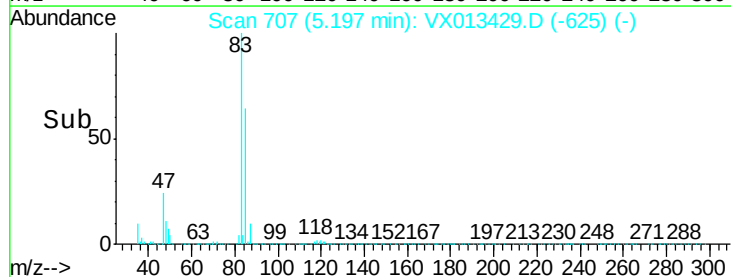
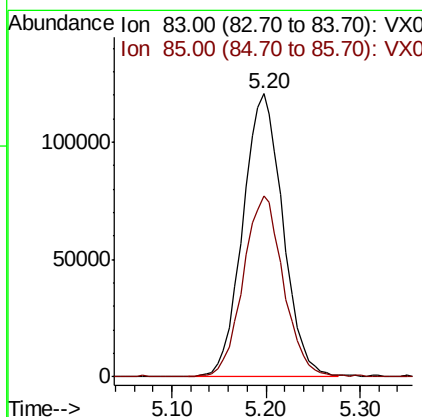
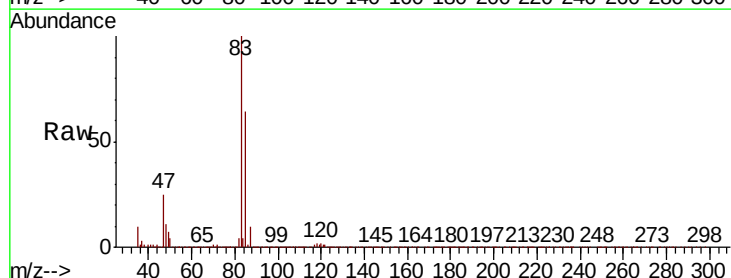
Tot Ion: 59 Resp: 9374
 Ion Ratio Lower Upper
 59 100
 52 4.9 0.1 0.1#

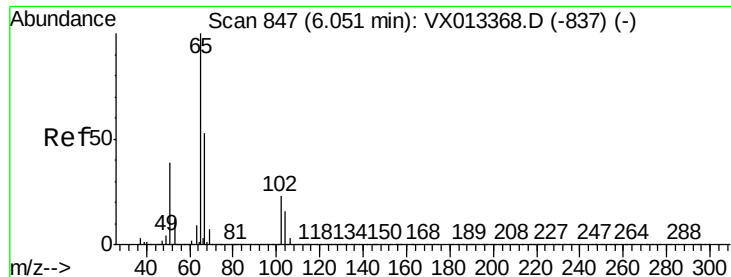


#25

Chloroform
 Concen: 29.448 ug/l
 RT: 5.20 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VX013429.D
 Acq: 14 Nov 2019 18:30

Tgt Ion: 83 Resp: 357836
 Ion Ratio Lower Upper
 83 100
 85 63.9 52.4 78.6





#27

1,2-Dichloroethane-d4

Concen: 29.500 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

Instrument :

MSVOA_X

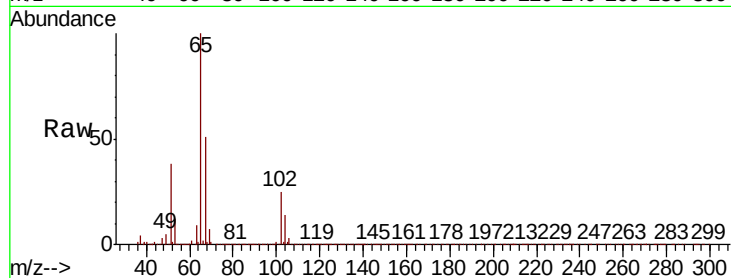
ClientSampleId :

Tot Ion: 65 Resp: 226906

Ion Ratio Lower Upper

65 100

67 52.8 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.05

80000

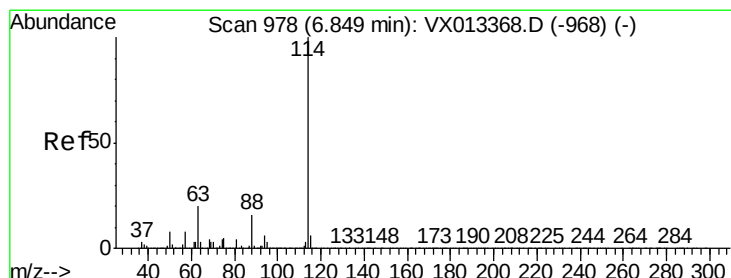
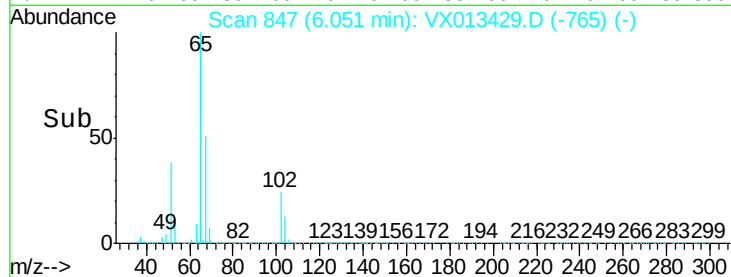
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

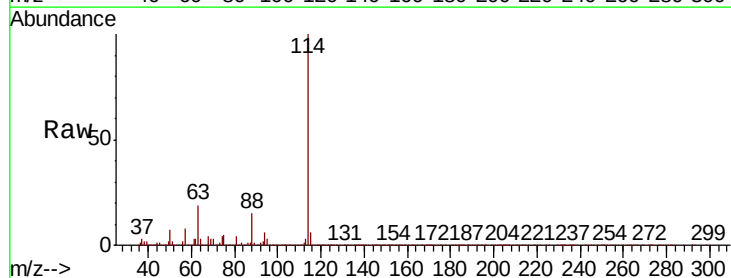
Tgt Ion: 114 Resp: 592017

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

88 15.3 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

6.85

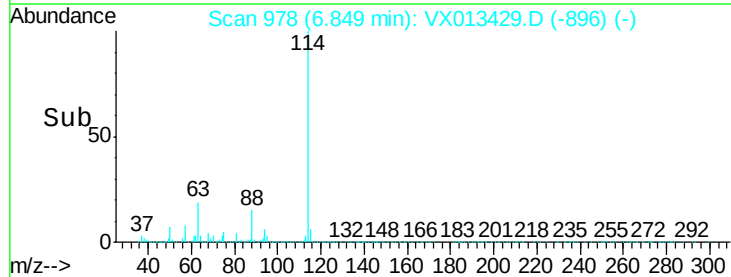
300000

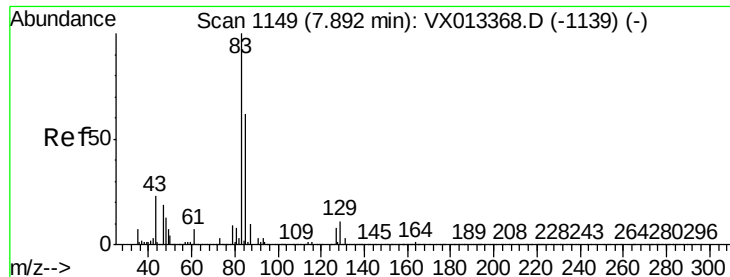
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#41

Bromodichloromethane

Concen: 5.000 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

Instrument :
MSVOA_X
ClientSampleId :

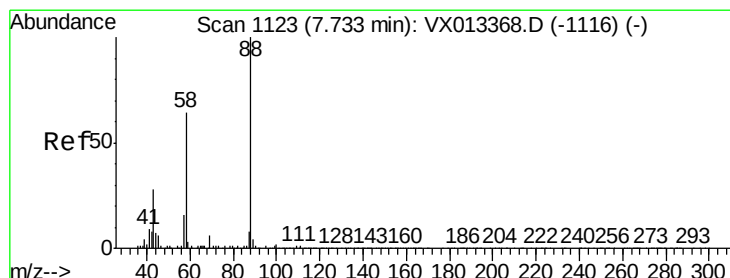
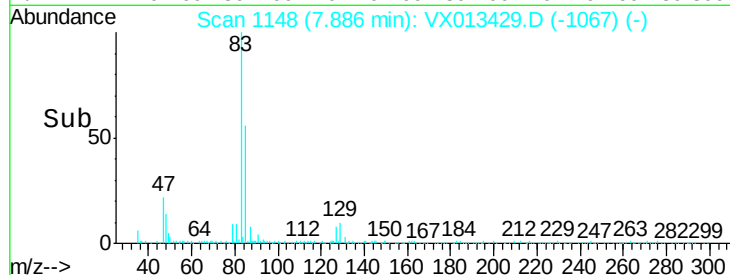
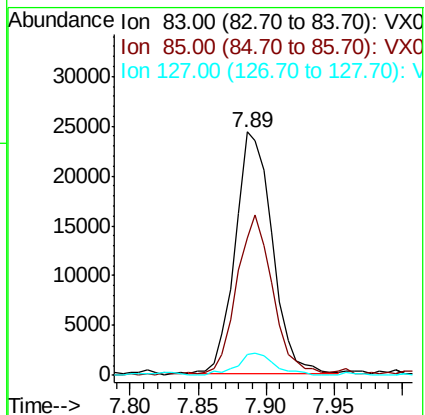
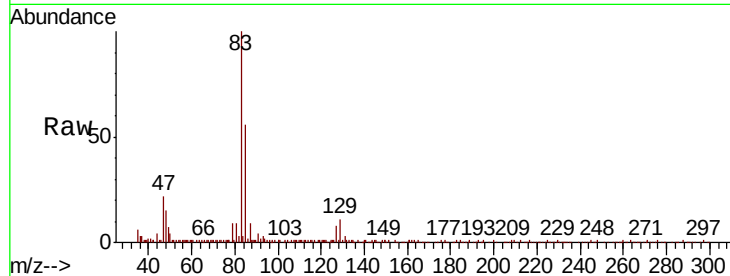
Tot Ion: 83 Resp: 46065

Ion Ratio Lower Upper

83 100

85 55.4 49.3 73.9

127 8.4 6.6 10.0



#45

1,4-Dioxane

Concen: 0.782 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

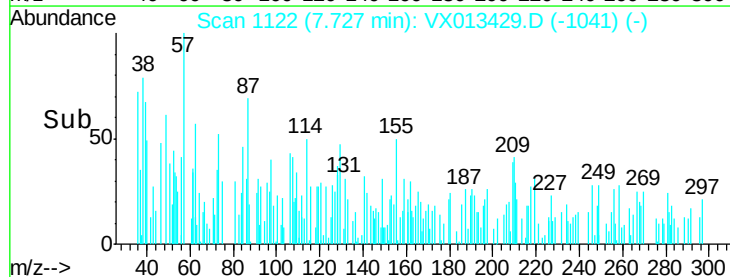
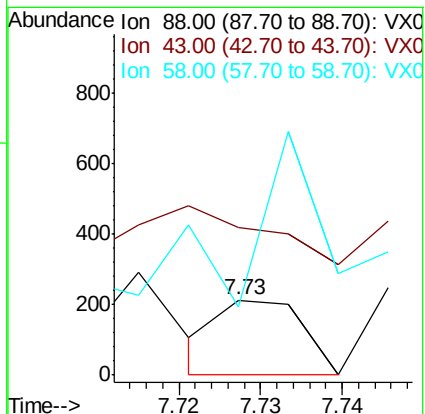
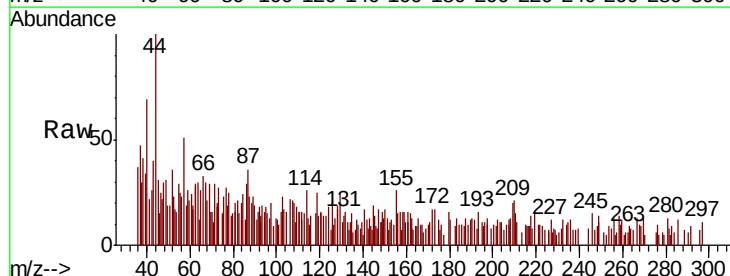
Tgt Ion: 88 Resp: 151

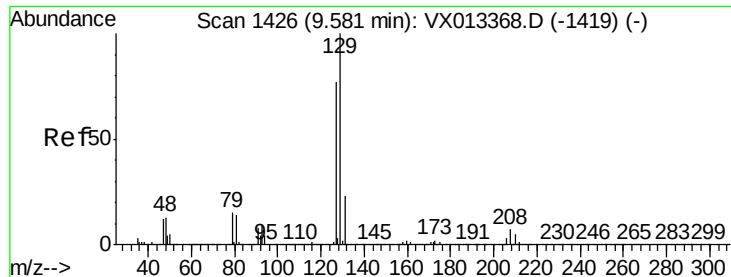
Ion Ratio Lower Upper

88 100

43 0.0 26.1 39.1#

58 142.4 55.8 83.8#





#53

Dibromochloromethane

Concen: 0.453 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

Instrument :

MSVOA_X

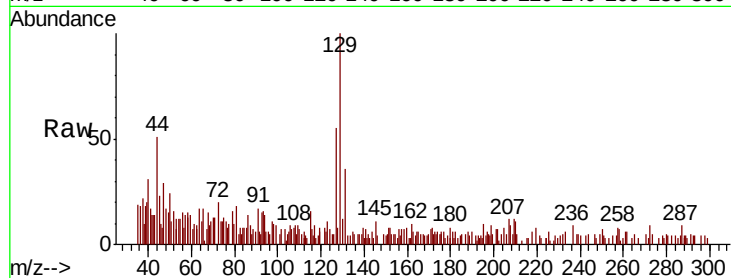
ClientSampled :

Tot Ion:129 Resp: 3350

Ion Ratio Lower Upper

129 100

127 63.4 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.58

2500

2000

1500

1000

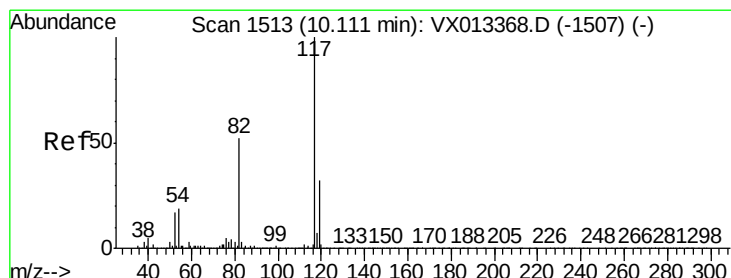
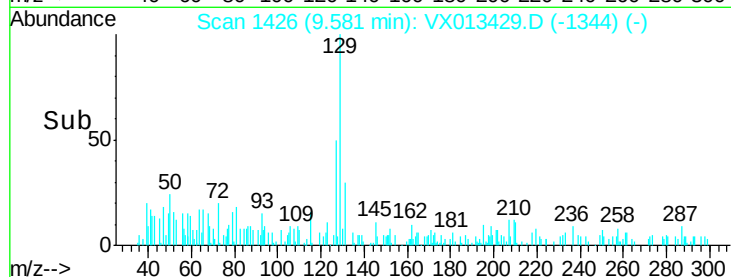
500

0

9.55

9.60

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013429.D

Acq: 14 Nov 2019 18:30

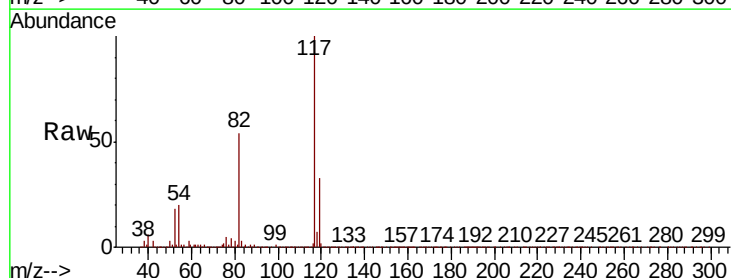
Tgt Ion:117 Resp: 518553

Ion Ratio Lower Upper

117 100

82 54.2 43.7 65.5

119 31.8 25.5 38.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

500000

400000

300000

200000

100000

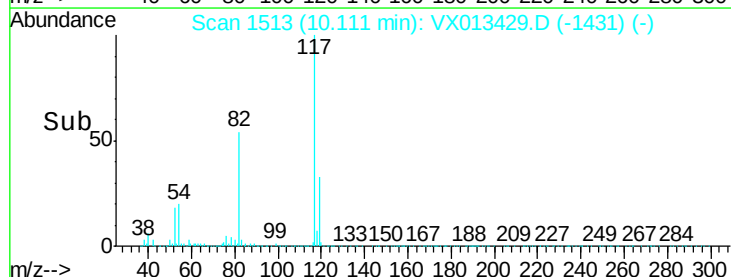
0

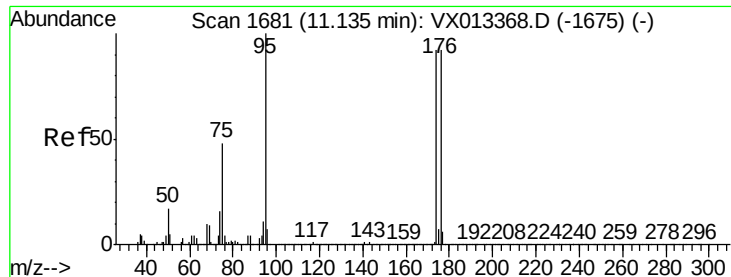
10.05

10.10

10.15

Time-->

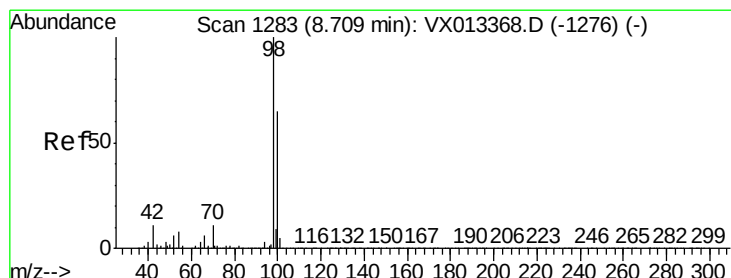
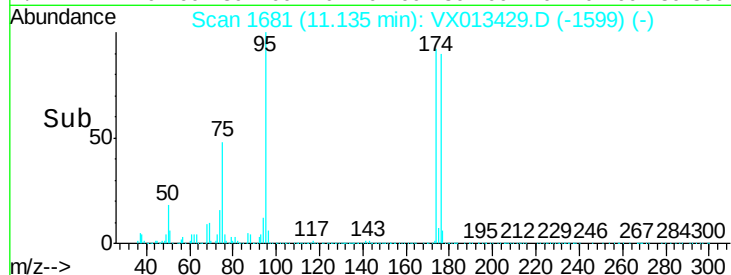
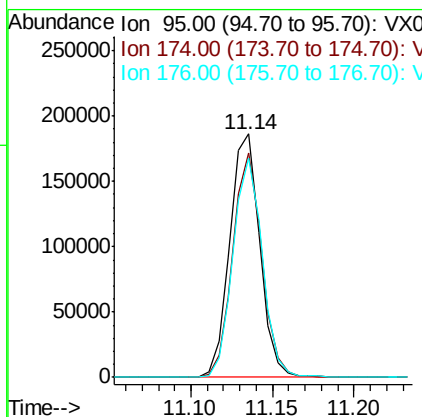
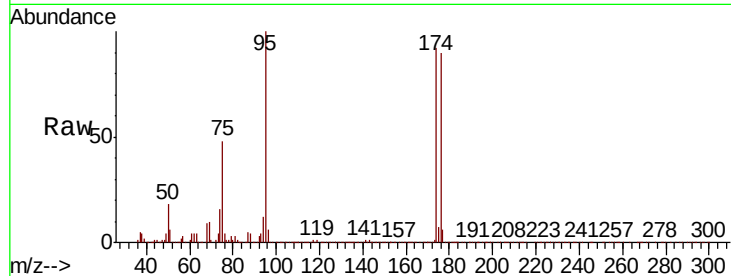




#60
4-Bromofluorobenzene
Concen: 28.558 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013429.D
Acq: 14 Nov 2019 18:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	90.0	70.2	105.2
176	88.1	68.3	102.5



#63
Toluene-d8
Concen: 29.720 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013429.D
Acq: 14 Nov 2019 18:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.5	78.7

