

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013425.D
 Acq On : 14 Nov 2019 16:22
 Operator : JC/SP
 Sample : K5828-01DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:57:59 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	5.01	128	117807	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	660950	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	577796	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	254428	29.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.50%
60) 4-Bromofluorobenzene	11.14	95	256844	27.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.20%
63) Toluene-d8	8.71	98	785483	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

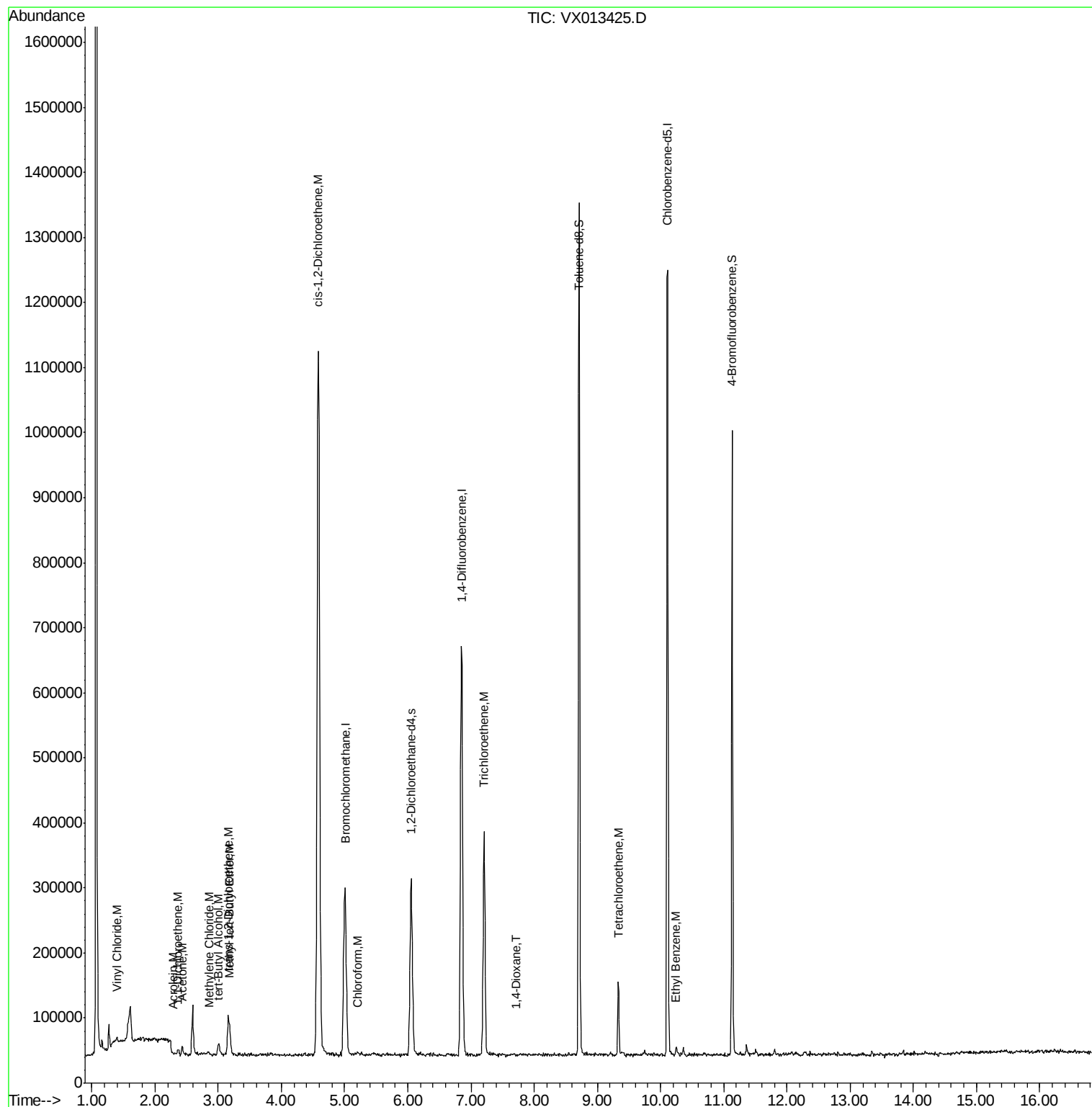
					Ovalue
4) Vinyl Chloride	1.40	62	3519	0.322 ug/l #	84
10) 1,1-Dichloroethene	2.36	96	2134	0.293 ug/l	99
13) Acrolein	2.30	56	291	0.215 ug/l	94
15) Acetone	2.43	58	3458	2.435 ug/l	78
18) Methylene Chloride	2.85	84	2139	0.259 ug/l #	72
19) trans-1,2-Dichloroethene	3.16	96	22402	2.881 ug/l	97
22) cis-1,2-Dichloroethene	4.58	96	701878	79.171 ug/l	88
23) tert-Butyl Alcohol	3.00	59	11567	5.127 ug/l #	98
24) Methyl tert-Butyl Ether	3.18	73	40744	1.692 ug/l	99
25) Chloroform	5.21	83	5688	0.414 ug/l	91
37) Trichloroethene	7.21	130	140843	17.169 ug/l	92
45) 1,4-Dioxane	7.73	88	94	0.436 ug/l #	1
61) Tetrachloroethene	9.33	164	23316	3.272 ug/l	99
66) Ethyl Benzene	10.25	91	8006	0.226 ug/l	100

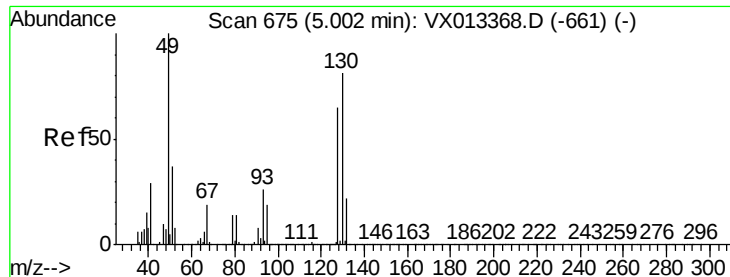
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111419\
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ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Nov 15 00:57:59 2019
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



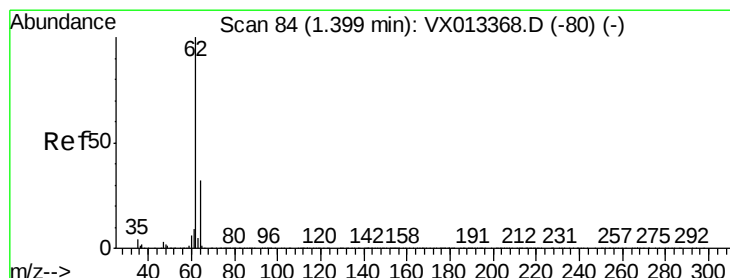
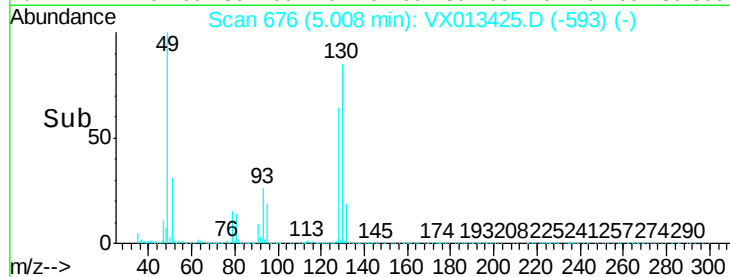
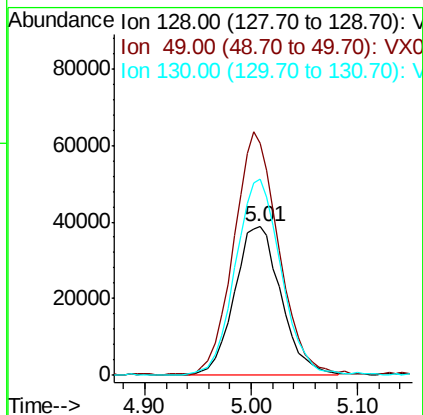
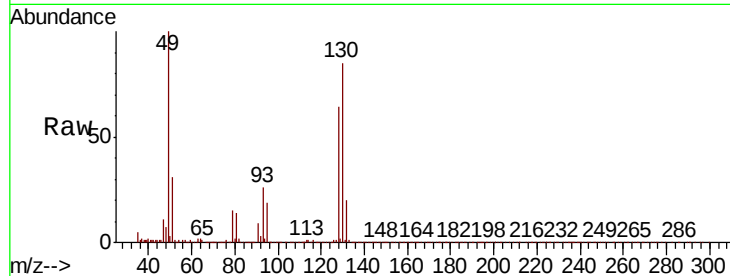


#1

Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Instrument :
MSVOA_X
ClientSampleId :

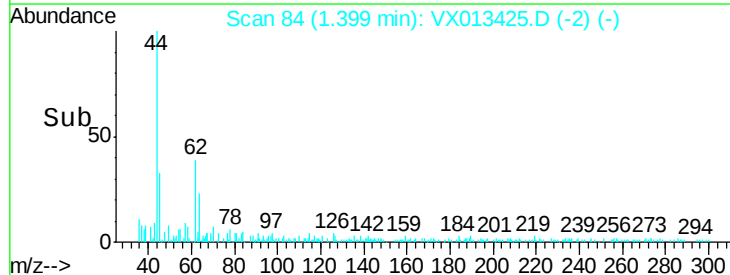
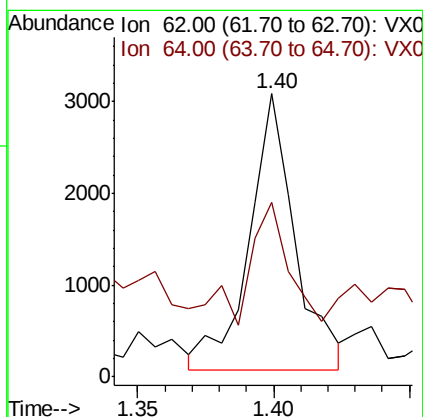
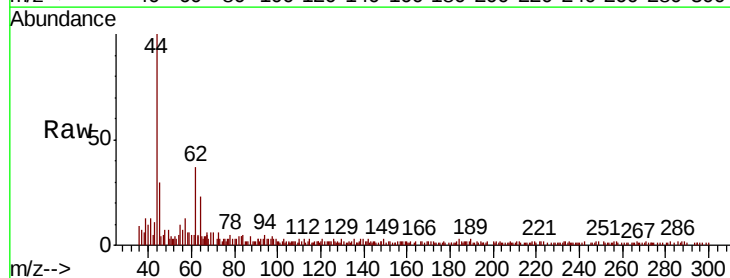
Tot Ion	Ratio	Lower	Upper
128	100		
49	157.1	0.0	388.3
130	131.0	0.0	318.5

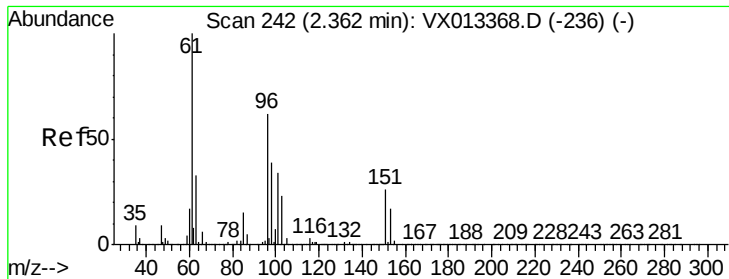


#4

Vinyl Chloride
Concen: 0.322 ug/l
RT: 1.40 min Scan# 84
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Tgt Ion	Ratio	Lower	Upper
62	100		
64	40.6	25.4	38.2





#10

1,1-Dichloroethene

Concen: 0.293 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013425.D

Acq: 14 Nov 2019 16:22

Instrument :
MSVOA_X
ClientSampleId :

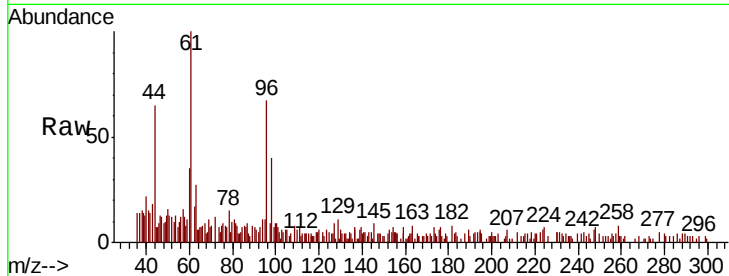
Tot Ion: 96 Resp: 2134

Ion Ratio Lower Upper

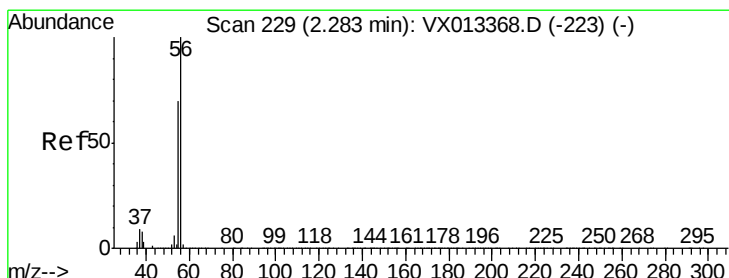
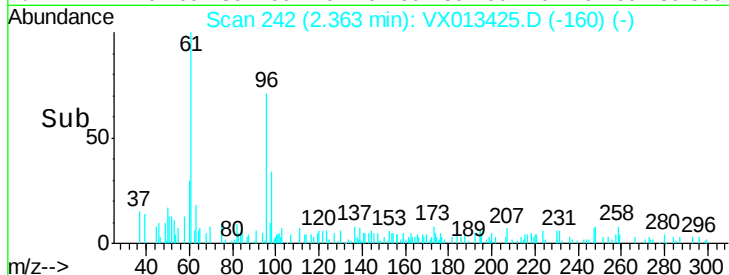
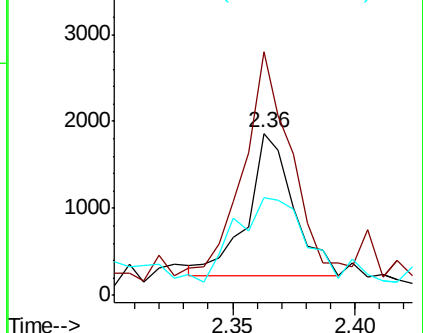
96 100

61 163.0 128.9 193.3

98 60.9 49.7 74.5



Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 98.00 (97.70 to 98.70): VX0



#13

Acrolein

Concen: 0.215 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013425.D

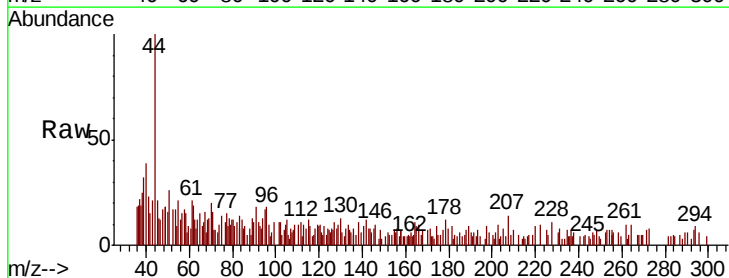
Acq: 14 Nov 2019 16:22

Tgt Ion: 56 Resp: 291

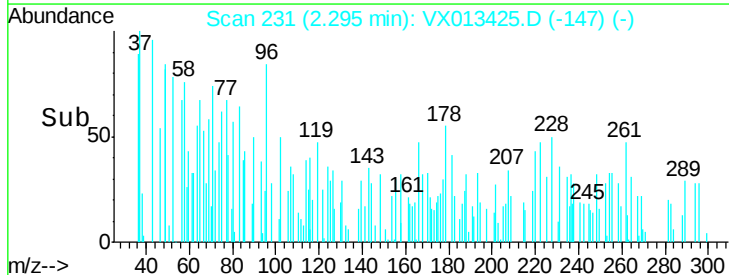
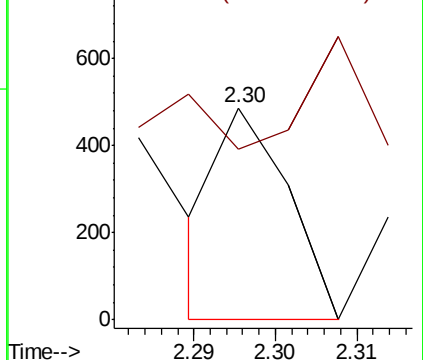
Ion Ratio Lower Upper

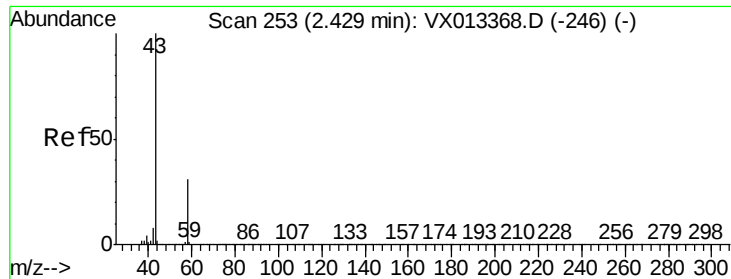
56 100

55 74.6 55.8 83.8



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

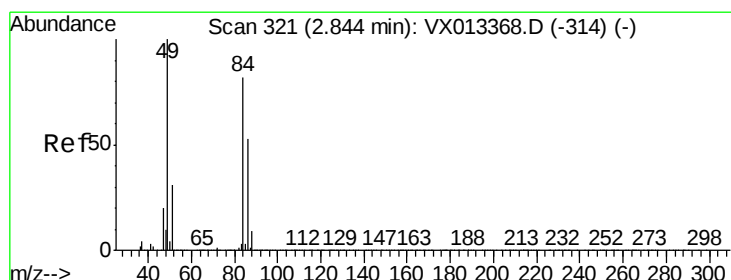
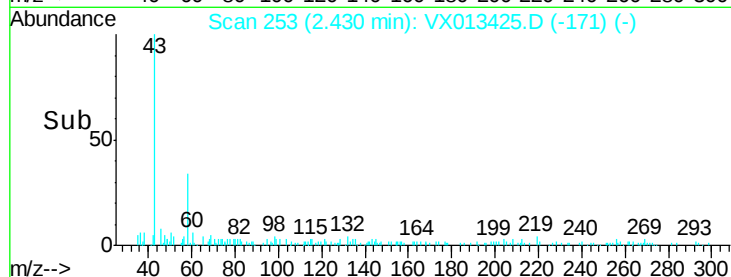
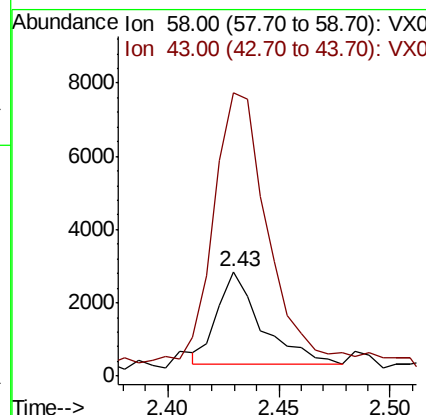
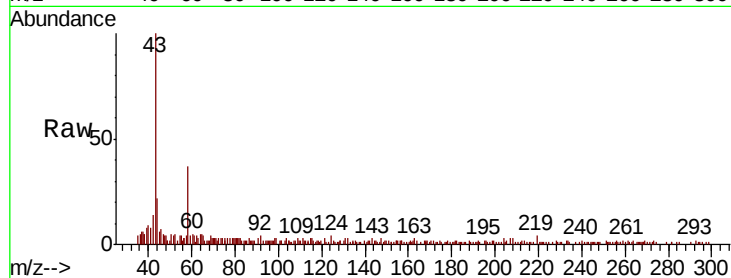




#15
Acetone
Concen: 2.435 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

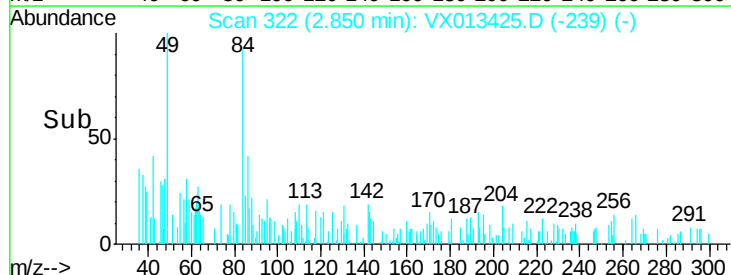
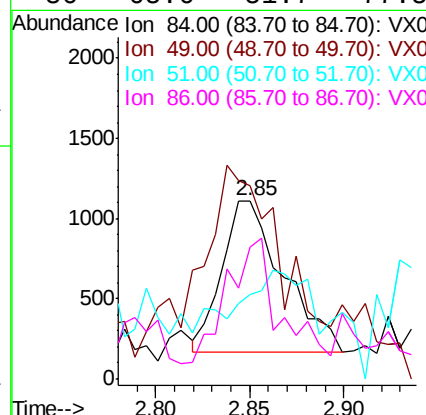
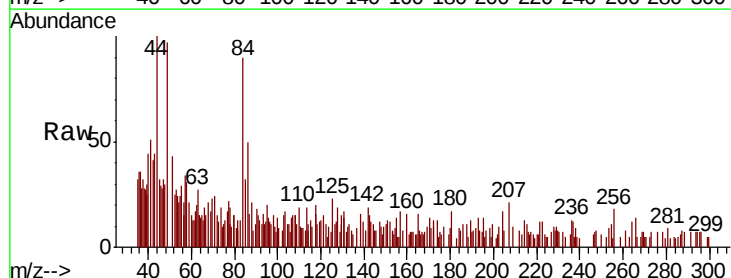
Instrument :
MSVOA_X
ClientSampleId :

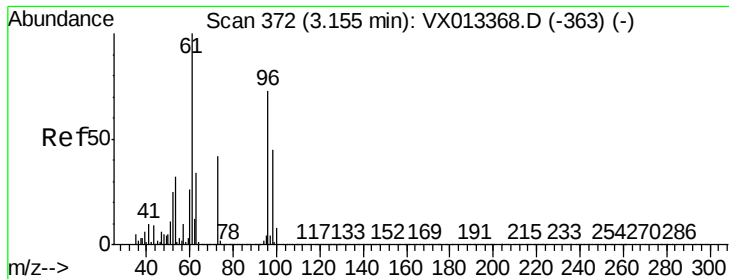
Tot Ion: 58 Resp: 3458
Ion Ratio Lower Upper
58 100
43 282.2 261.4 392.2



#18
Methylene Chloride
Concen: 0.259 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Tgt Ion: 84 Resp: 2139
Ion Ratio Lower Upper
84 100
49 78.6 96.8 145.2#
51 11.9 30.0 45.0#
86 65.6 51.7 77.5

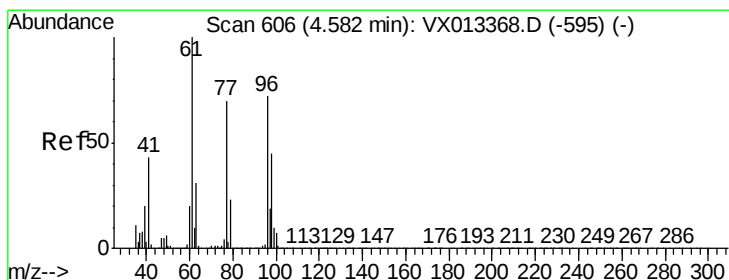
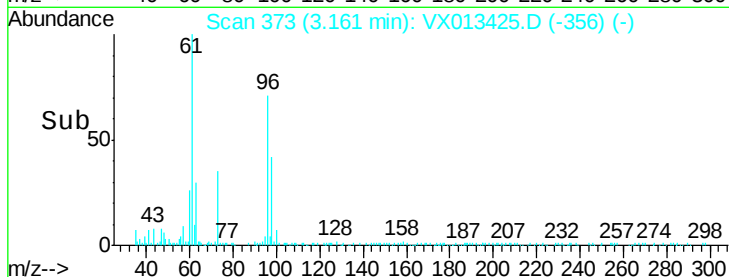
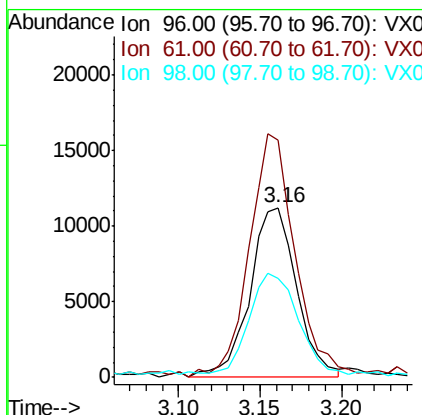
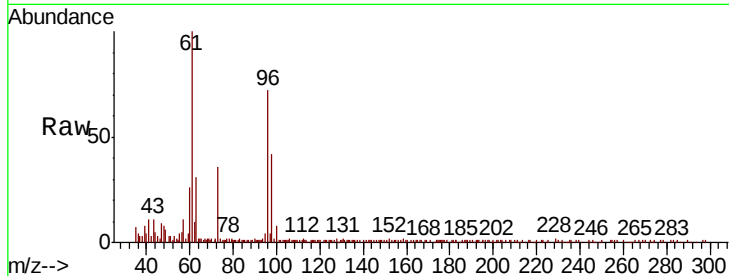




#19
trans-1,2-Dichloroethene
Concen: 2.881 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

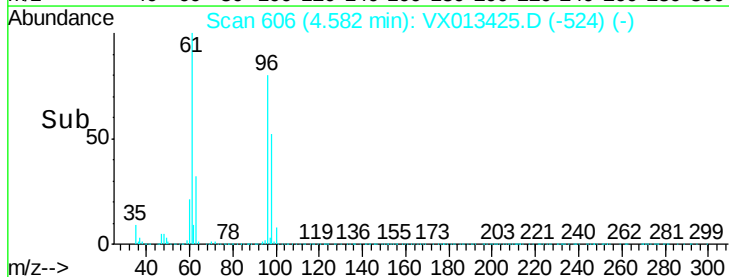
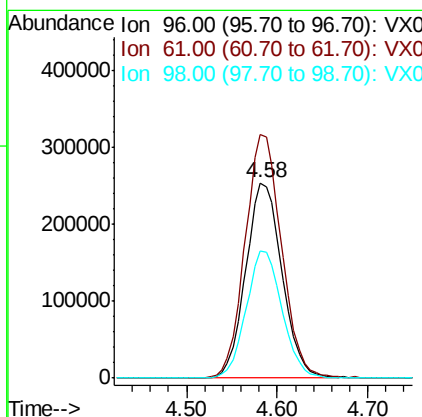
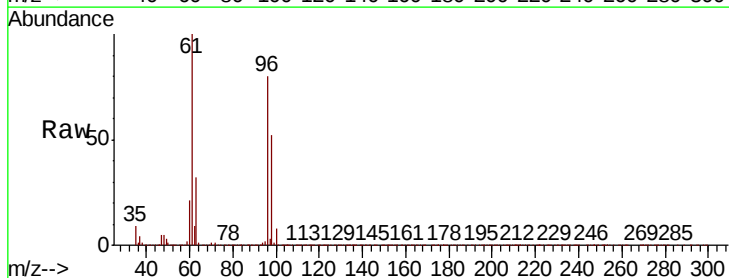
Instrument :
MSVOA_X
ClientSampleId :

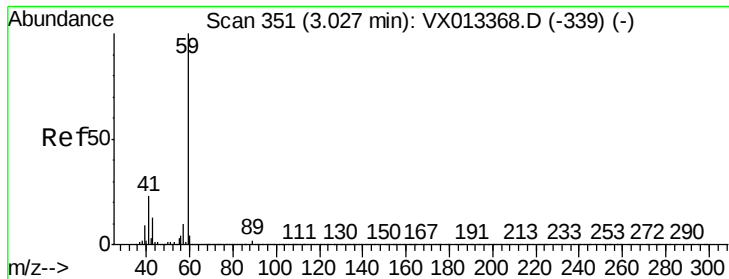
Tot Ion: 96 Resp: 22402
Ion Ratio Lower Upper
96 100
61 137.7 109.9 164.9
98 54.8 49.7 74.5



#22
cis-1,2-Dichloroethene
Concen: 79.171 ug/l
RT: 4.58 min Scan# 606
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Tgt Ion: 96 Resp: 701878
Ion Ratio Lower Upper
96 100
61 125.0 117.0 175.6
98 64.4 51.1 76.7



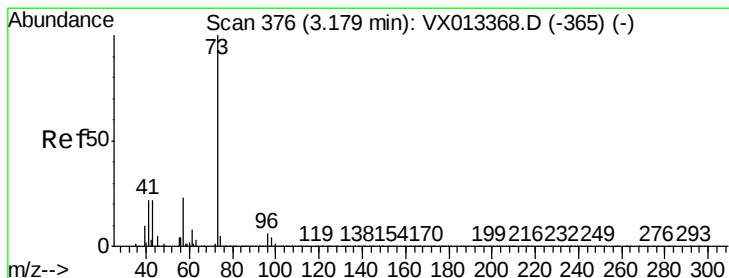
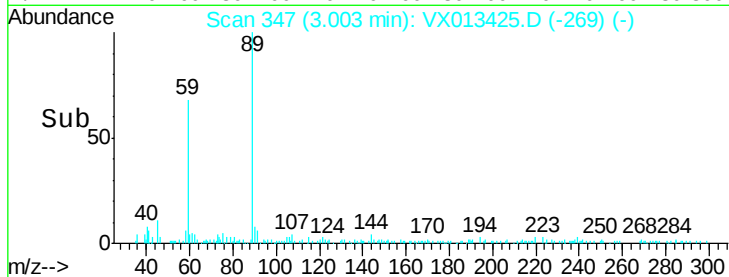
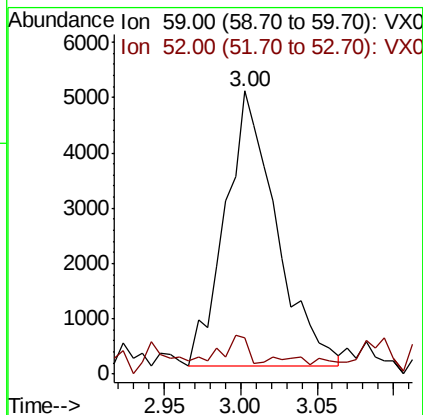
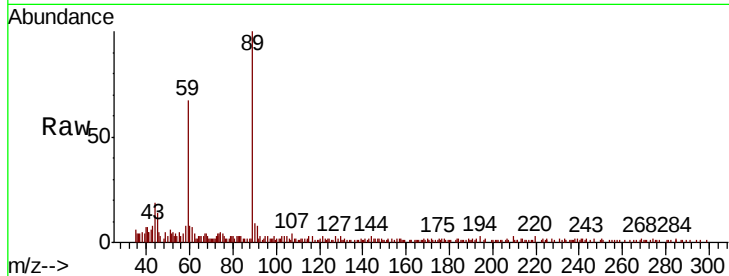


#23

tert-Butyl Alcohol
Concen: 5.127 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.02 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Instrument :
MSVOA_X
ClientSampleId :

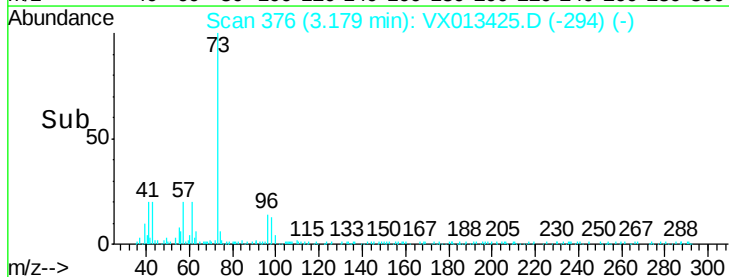
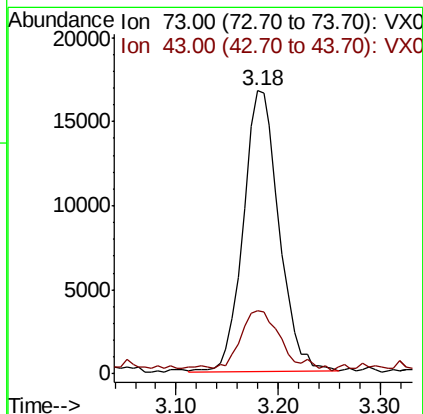
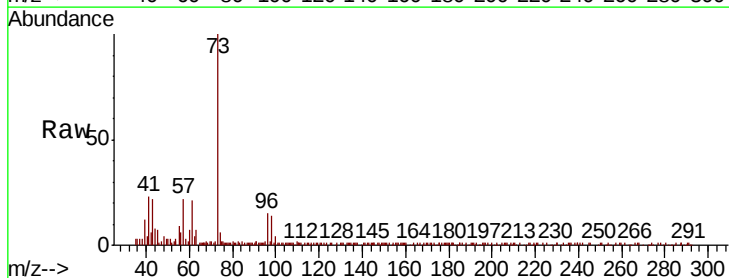
Tot Ion: 59 Resp: 11567
Ion Ratio Lower Upper
59 100
52 4.2 0.1 0.1#

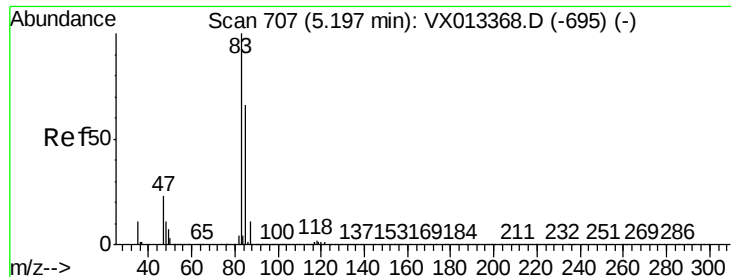


#24

Methyl tert-Butyl Ether
Concen: 1.692 ug/l
RT: 3.18 min Scan# 376
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Tgt Ion: 73 Resp: 40744
Ion Ratio Lower Upper
73 100
43 21.7 17.0 25.6





#25

Chloroform

Concen: 0.414 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX013425.D

Acq: 14 Nov 2019 16:22

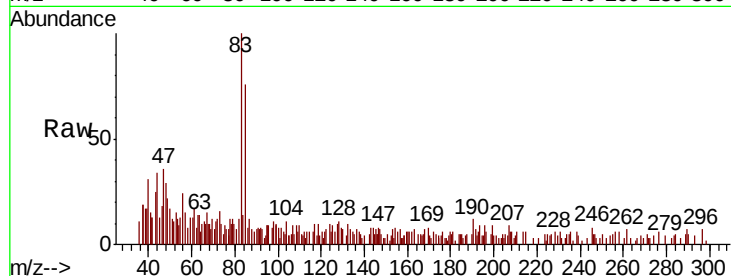
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 5688

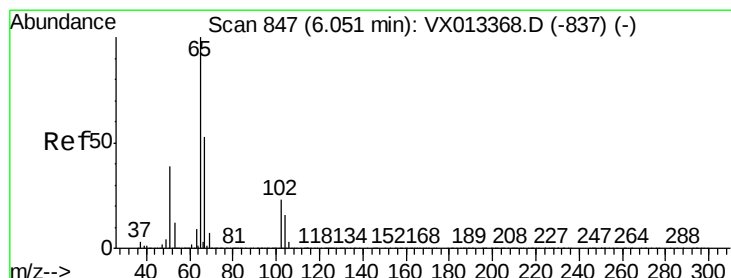
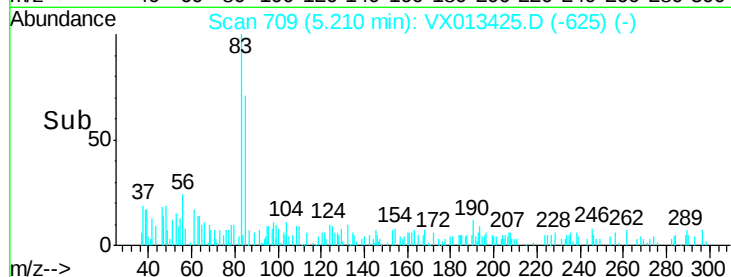
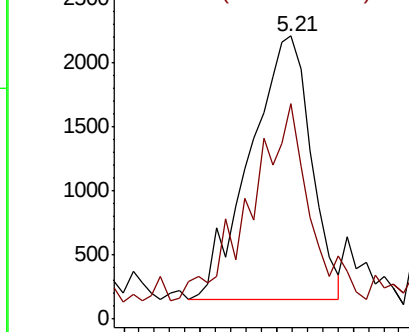
Ion Ratio Lower Upper

83 100

85 58.6 52.4 78.6



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: 29.248 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013425.D

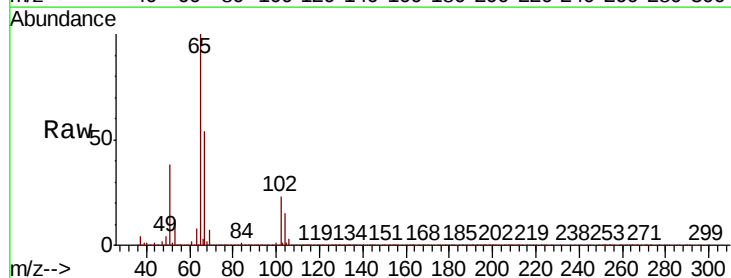
Acq: 14 Nov 2019 16:22

Tgt Ion: 65 Resp: 254428

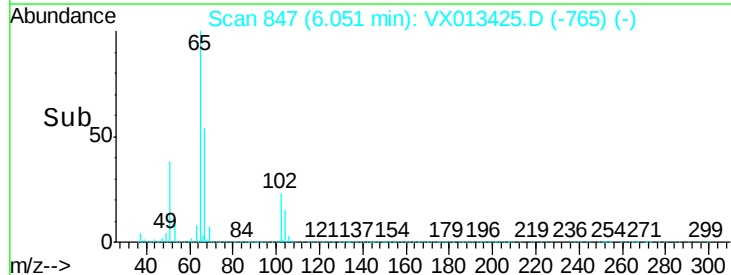
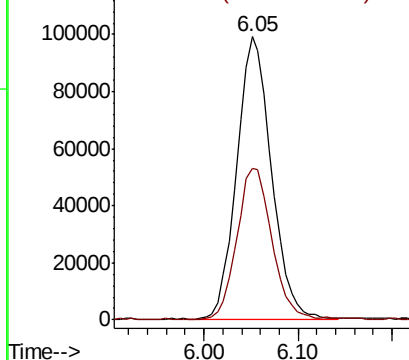
Ion Ratio Lower Upper

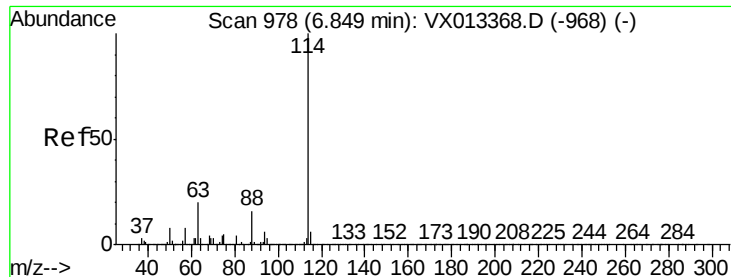
65 100

67 53.8 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0
Ion 67.00 (66.70 to 67.70): VX0

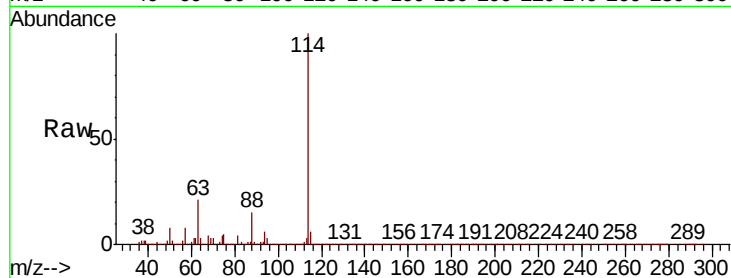




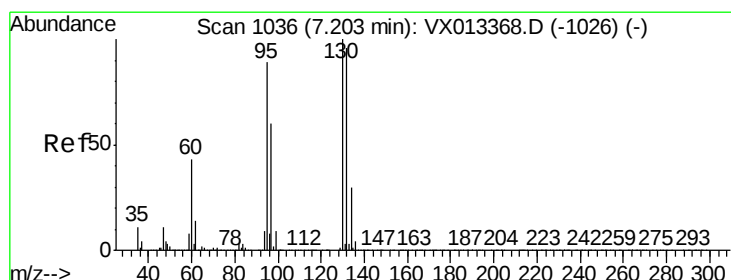
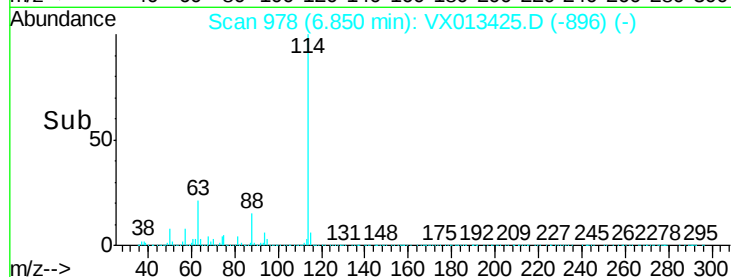
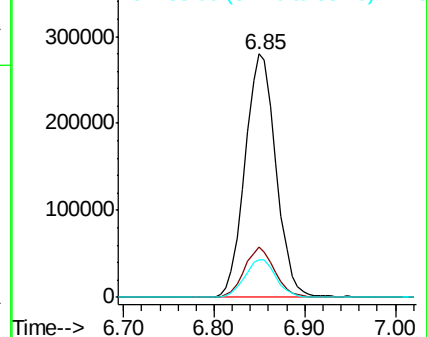
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	16.1	24.1
88	15.6	12.3	18.5

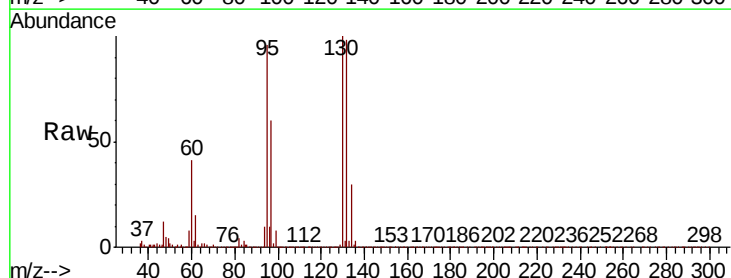


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 88.00 (87.70 to 88.70): VX0

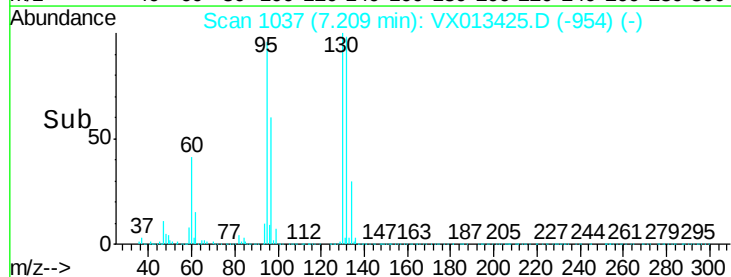
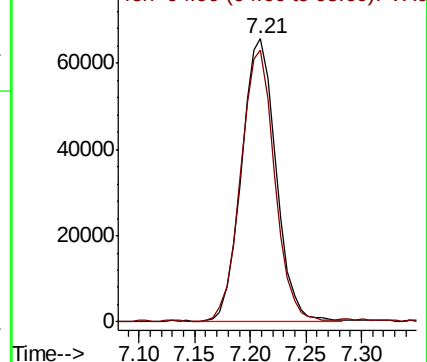


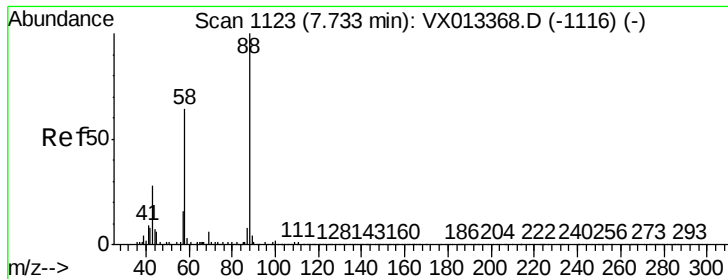
#37
Trichloroethene
Concen: 17.169 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.2	71.3	106.9



Abundance Ion 129.90 (129.60 to 130.60): V
Ion 94.90 (94.60 to 95.60): VX0





#45

1,4-Dioxane

Concen: 0.436 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013425.D

Acq: 14 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

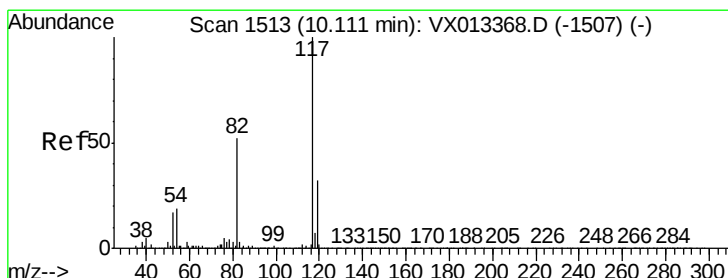
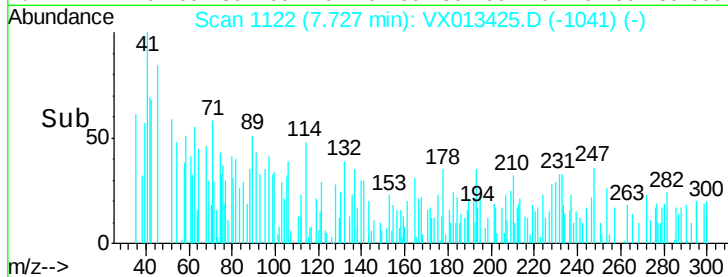
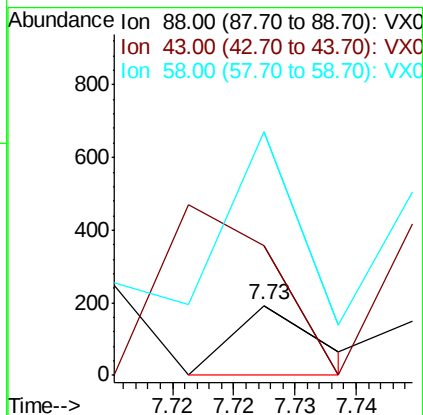
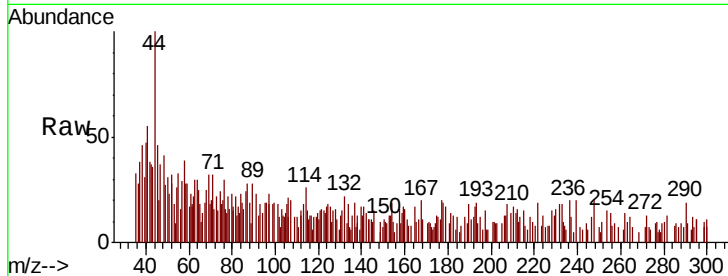
Tot Ion: 88 Resp: 94

Ion Ratio Lower Upper

88 100

43 321.3 26.1 39.1#

58 227.7 55.8 83.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013425.D

Acq: 14 Nov 2019 16:22

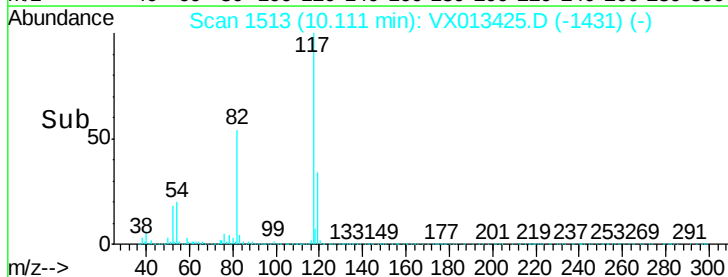
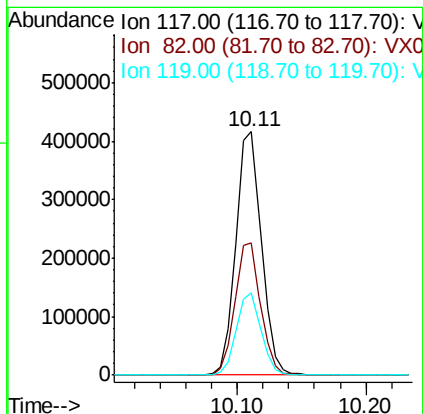
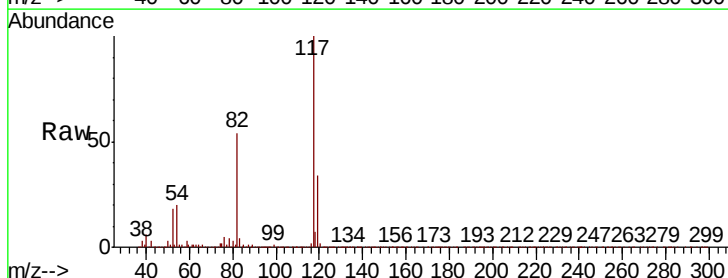
Tgt Ion: 117 Resp: 577796

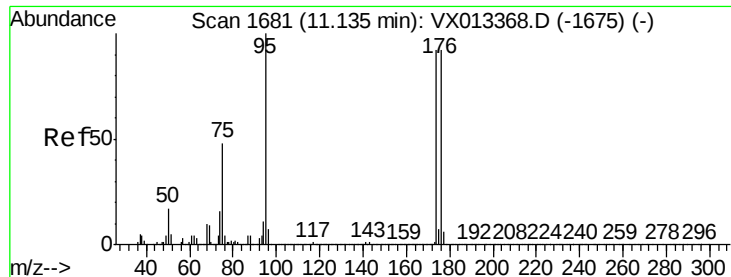
Ion Ratio Lower Upper

117 100

82 54.3 43.7 65.5

119 32.6 25.5 38.3

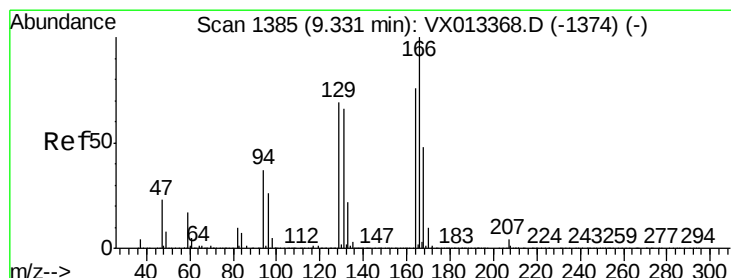
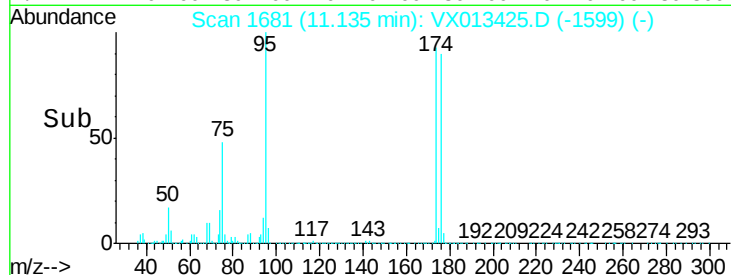
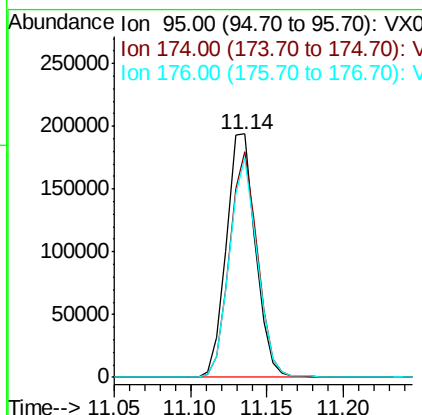
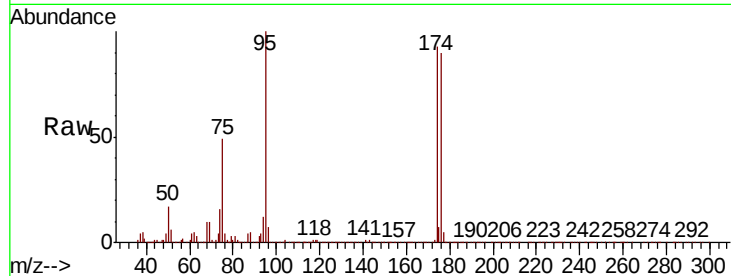




#60
4-Bromofluorobenzene
Concen: 27.657 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

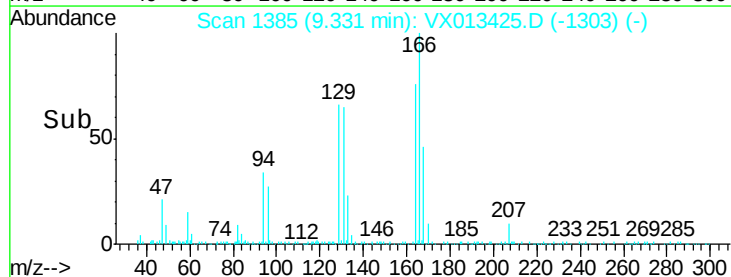
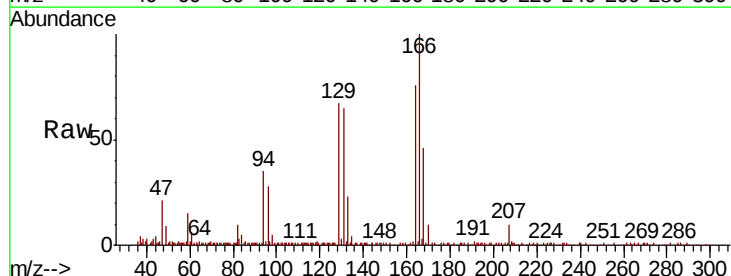
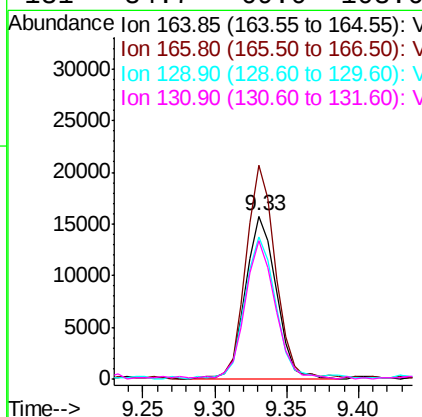
Instrument :
MSVOA_X
ClientSampled :

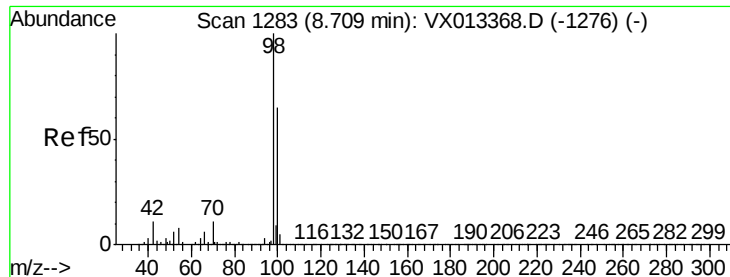
Tot Ion	95	Resp	256844
Ion Ratio	Lower	Upper	
95	100		
174	88.5	70.2	105.2
176	86.0	68.3	102.5



#61
Tetrachloroethene
Concen: 3.272 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013425.D
Acq: 14 Nov 2019 16:22

Tgt Ion	164	Resp	23316
Ion Ratio	Lower	Upper	
164	100		
166	131.3	104.9	157.3
129	87.6	72.3	108.5
131	84.7	69.0	103.6





#63

Toluene-d8

Concen: 30.063 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013425.D

Acq: 14 Nov 2019 16:22

Instrument :

MSVOA_X

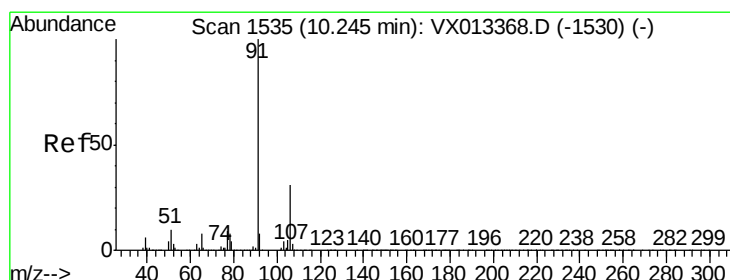
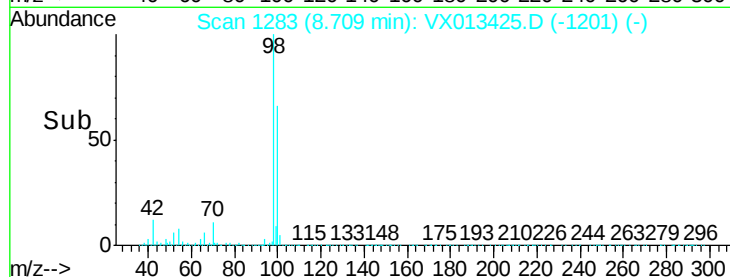
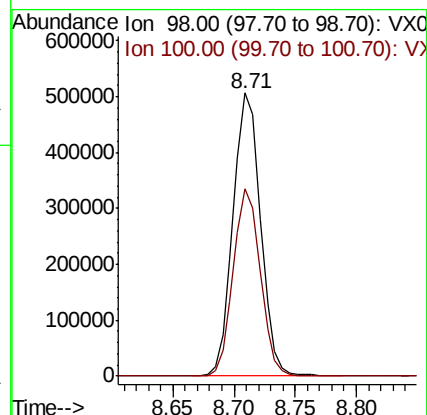
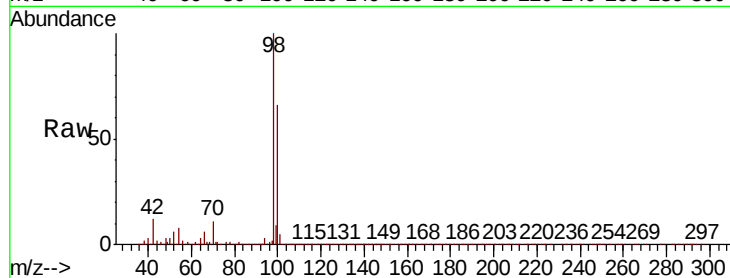
ClientSampled :

Tot Ion: 98 Resp: 785483

Ion Ratio Lower Upper

98 100

100 65.3 52.5 78.7



#66

Ethyl Benzene

Concen: 0.226 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013425.D

Acq: 14 Nov 2019 16:22

Tgt Ion: 91 Resp: 8006

Ion Ratio Lower Upper

91 100

106 31.1 25.0 37.4

