

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013513.D
 Acq On : 21 Nov 2019 19:06
 Operator : JC/SP
 Sample : K5962-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 29BR-20191120

Quant Time: Nov 22 01:11:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	697726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1128501	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1004456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	458076	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	412131	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	5.49	113	342447	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	8.71	98	1341626	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.14	95	451936	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	201102	25.015	ug/l	99
3) Chloromethane	1.31	50	2464	0.283	ug/l	95
4) Vinyl Chloride	1.40	62	70572	7.110	ug/l	100
6) Chloroethane	1.69	64	975	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.37	101	145311	22.234	ug/l	99
11) Tert butyl alcohol	3.01	59	680	0.312	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	103937	16.240	ug/l	99
13) Acrolein	2.28	56	408	0.346	ug/l #	50
15) Acrylonitrile	3.13	53	1029	0.253	ug/l #	27
16) Acetone	2.43	43	7406	1.796	ug/l #	87
21) trans-1,2-Dichloroethene	3.15	96	67830	9.734	ug/l	95
24) 1,1-Dichloroethane	3.69	63	2988	0.238	ug/l #	58
27) cis-1,2-Dichloroethene	4.58	96	2127206	272.501	ug/l	88
29) Tetrahydrofuran	5.13	42	1588	0.426	ug/l #	59
31) Cyclohexane	5.65	56	12281	1.087	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	46522	4.805	ug/l #	49
38) Carbon Tetrachloride	5.65	117	60424	6.383	ug/l #	17
39) Methylcyclohexane	7.22	83	278785	23.111	ug/l #	1
44) Trichloroethene	7.21	130	21288337	2564.544	ug/l	92
49) 1,4-Dioxane	7.72	88	480	2.254	ug/l #	1
56) Ethyl methacrylate	9.16	69	127	1.572	ug/l #	1
64) Tetrachloroethene	9.34	164	2533	0.352	ug/l #	81
71) Bromoform	10.85	173	269	3.239	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	220853	23.737	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	220853	61.099	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013513.D

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MSVOA_X

ClientSampleId :

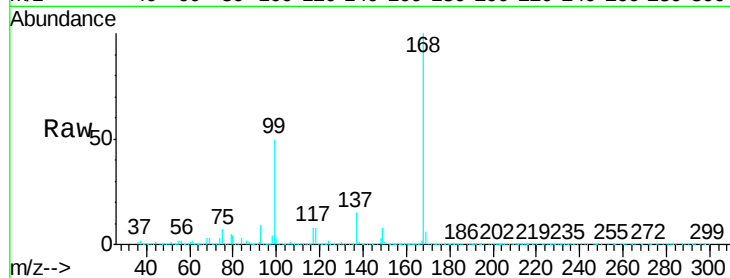
29BR-20191120

Tgt Ion:168 Resp: 697726

Ion Ratio Lower Upper

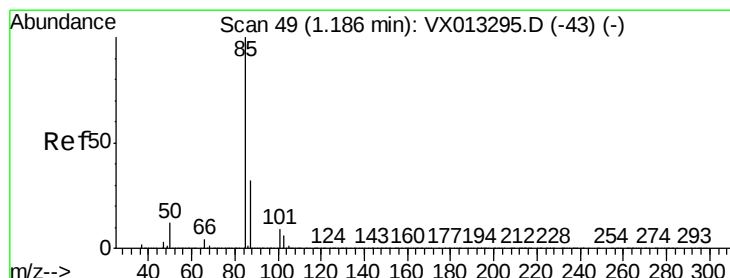
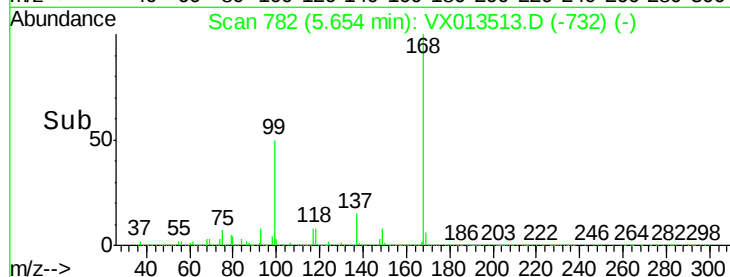
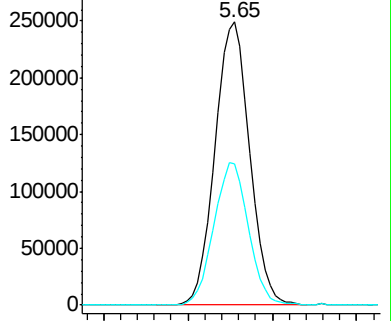
168 100

99 49.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 25.015 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013513.D

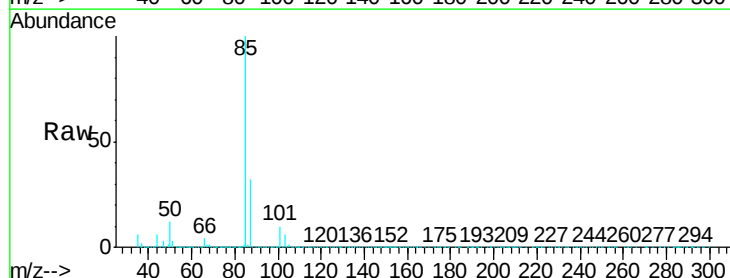
Acq: 21 Nov 2019 19:06

Tgt Ion: 85 Resp: 201102

Ion Ratio Lower Upper

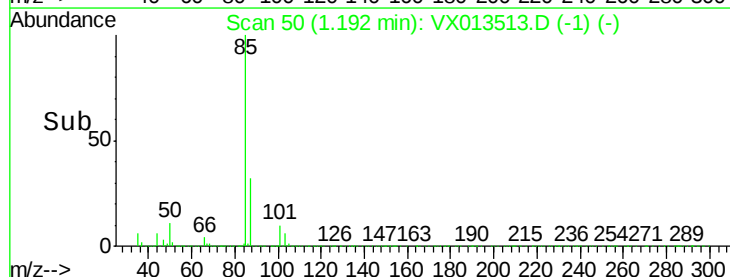
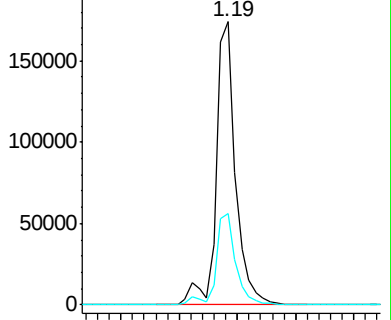
85 100

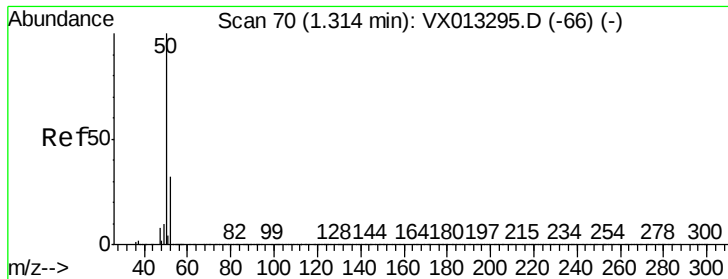
87 32.0 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.283 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

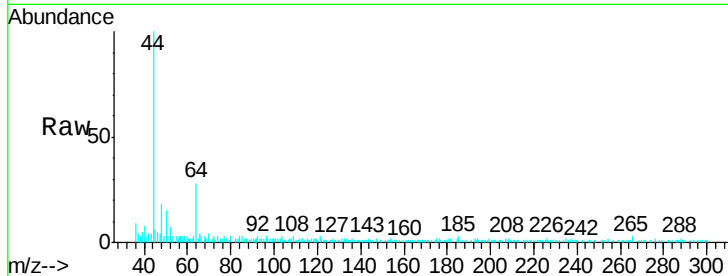
29BR-20191120

Tgt Ion: 50 Resp: 2464

Ion Ratio Lower Upper

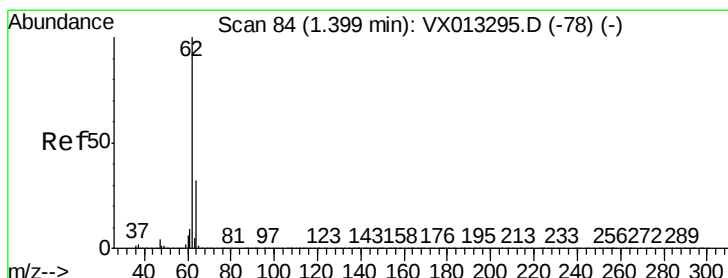
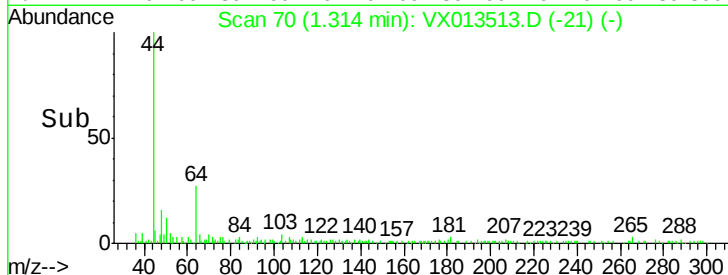
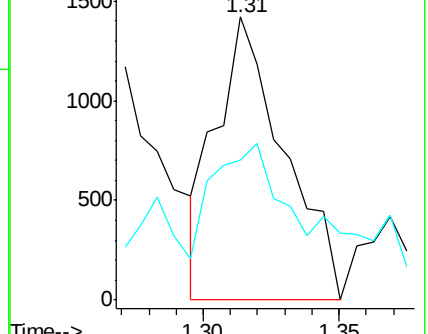
50 100

52 34.7 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 7.110 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013513.D

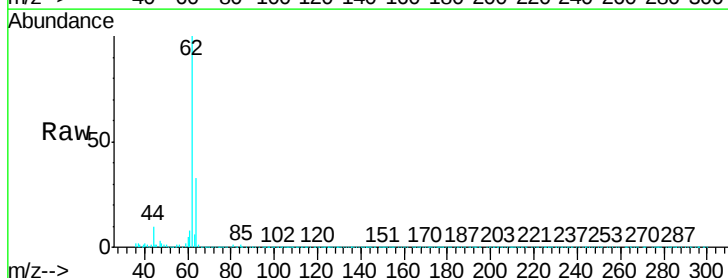
Acq: 21 Nov 2019 19:06

Tgt Ion: 62 Resp: 70572

Ion Ratio Lower Upper

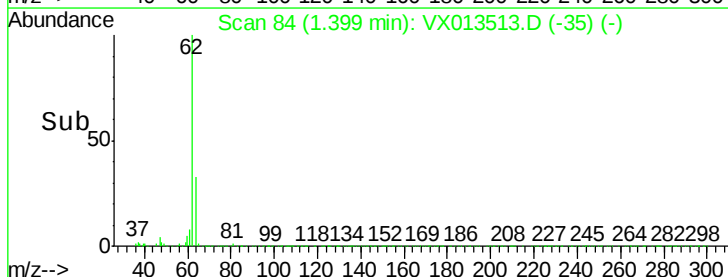
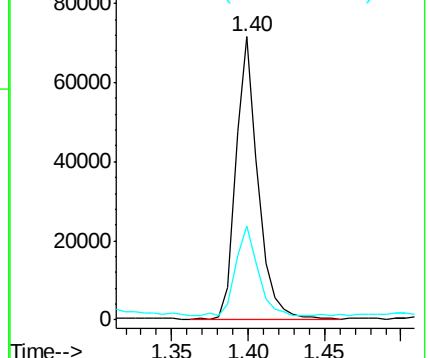
62 100

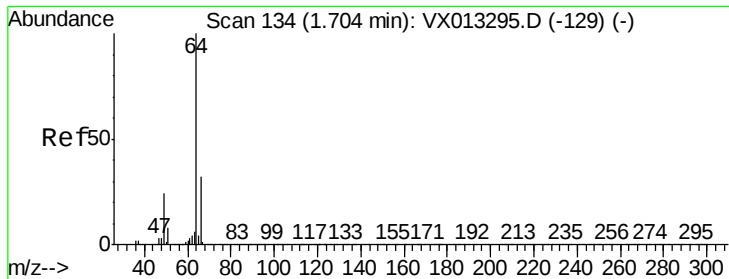
64 31.8 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

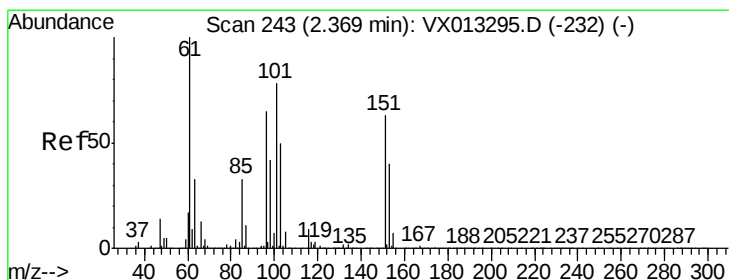
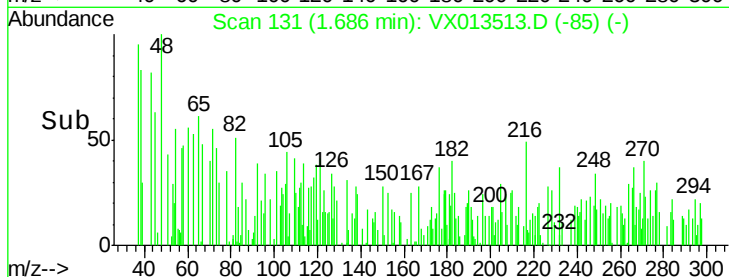
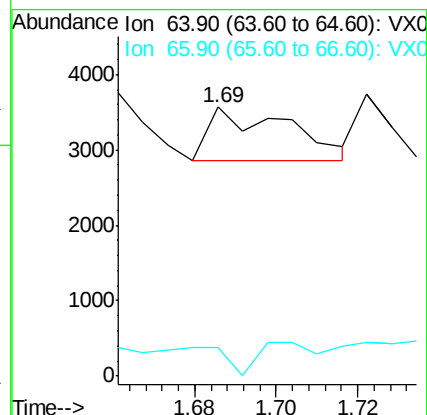
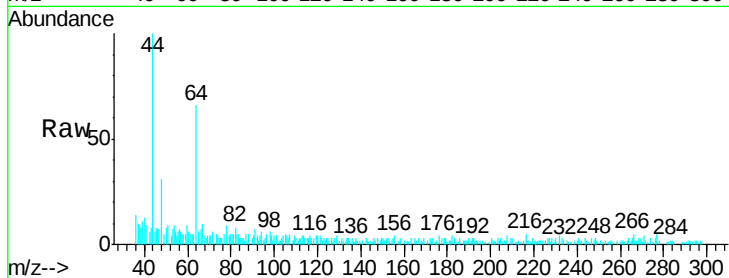
29BR-20191120

Tgt Ion: 64 Resp: 975

Ion Ratio Lower Upper

64 100

66 1.1 25.6 38.4#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.234 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

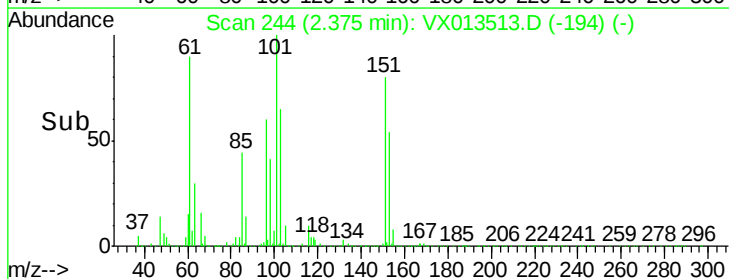
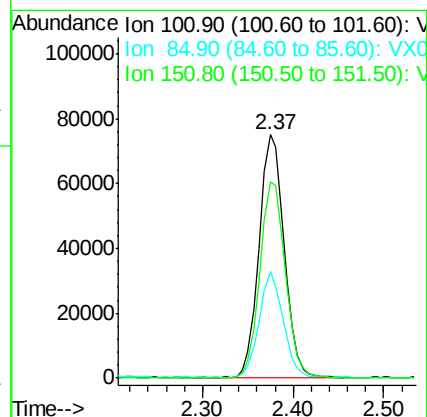
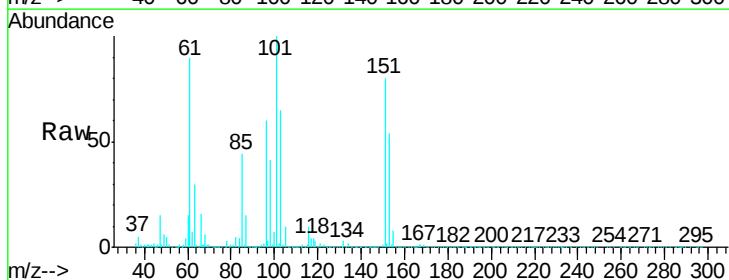
Tgt Ion: 101 Resp: 145311

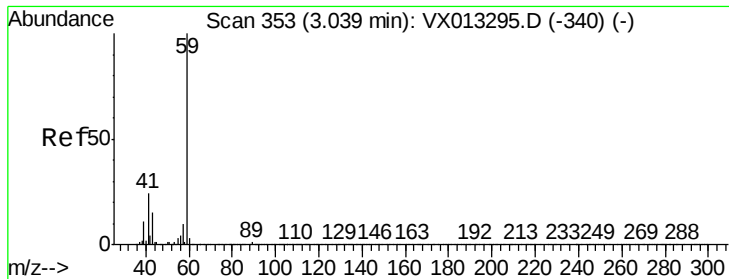
Ion Ratio Lower Upper

101 100

85 42.0 34.4 51.6

151 81.7 66.4 99.6



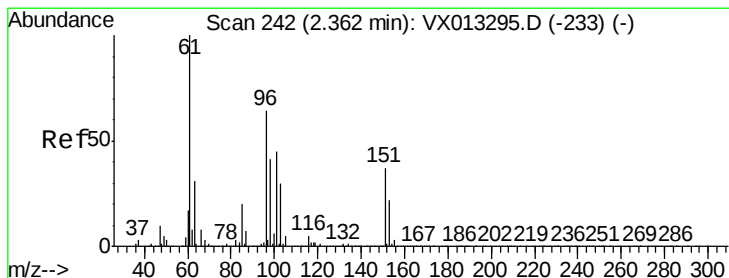
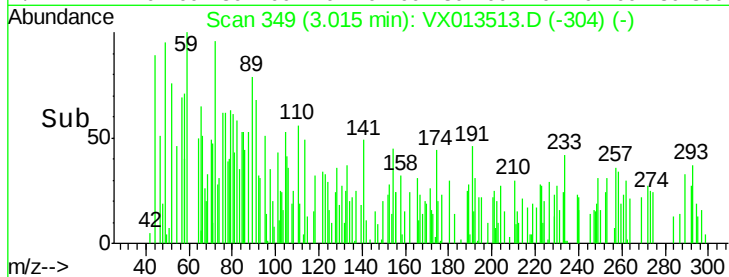
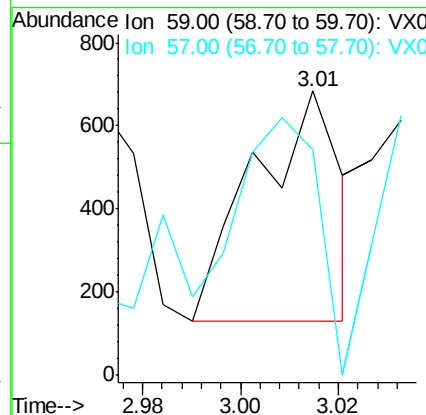
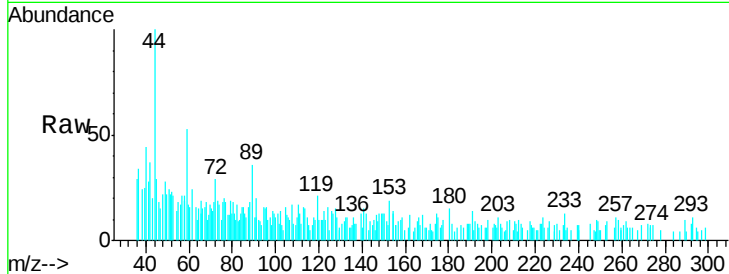


#11

Tert butyl alcohol
 Concen: 0.312 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: VX013513.D
 Acq: 21 Nov 2019 19:06

Instrument :
 MSVOA_X
 ClientSampleId :
 29BR-20191120

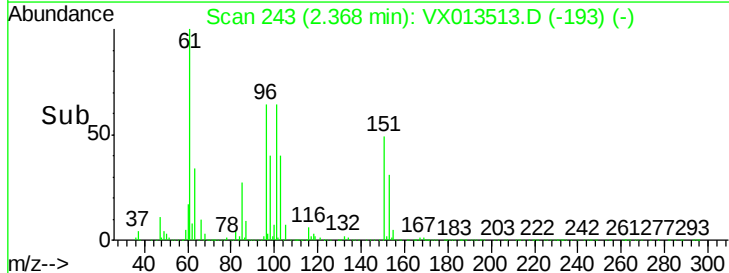
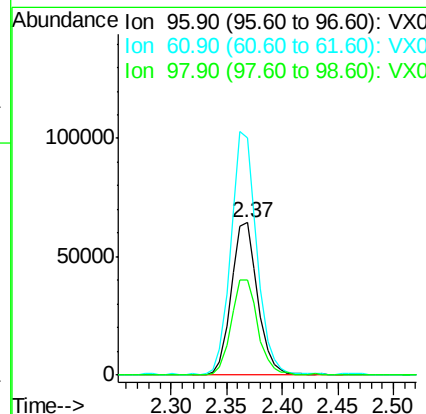
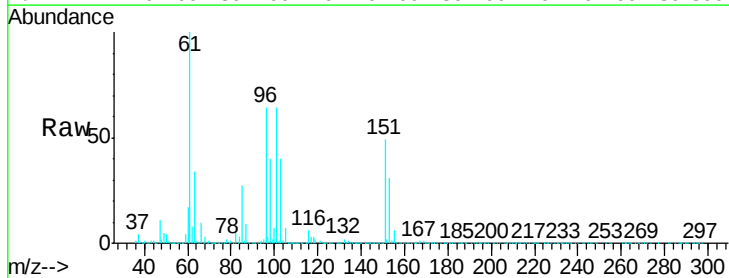
Tgt Ion: 59 Resp: 680
 Ion Ratio Lower Upper
 59 100
 57 137.5 8.0 12.0#

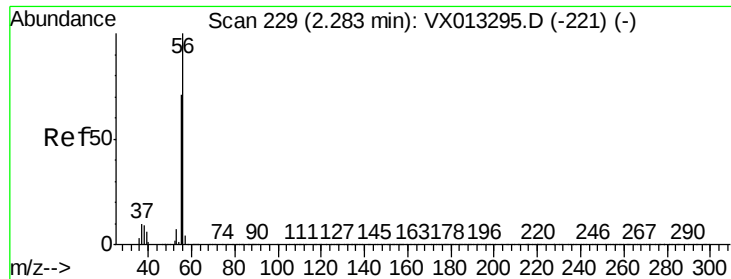


#12

1,1-Dichloroethene
 Concen: 16.240 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VX013513.D
 Acq: 21 Nov 2019 19:06

Tgt Ion: 96 Resp: 103937
 Ion Ratio Lower Upper
 96 100
 61 155.5 125.0 187.6
 98 62.7 50.7 76.1

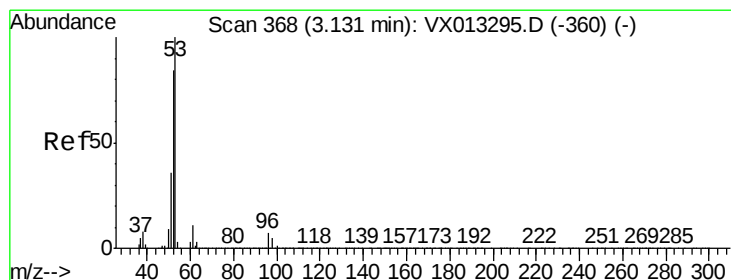
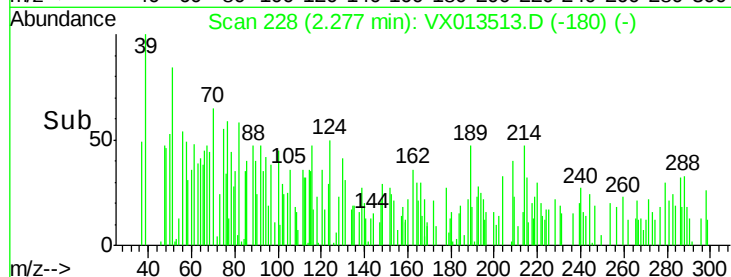
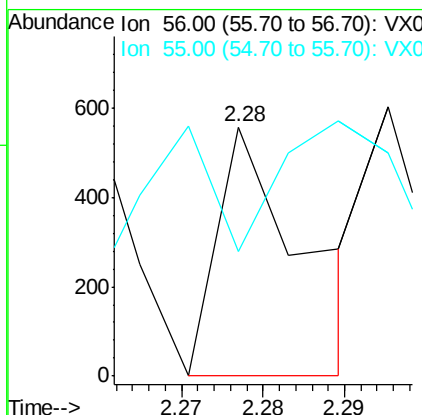
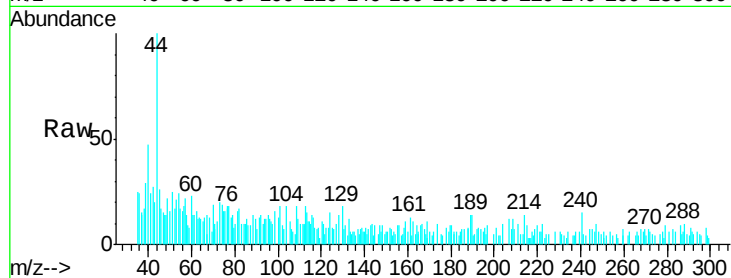




#13
Acrolein
Concen: 0.346 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

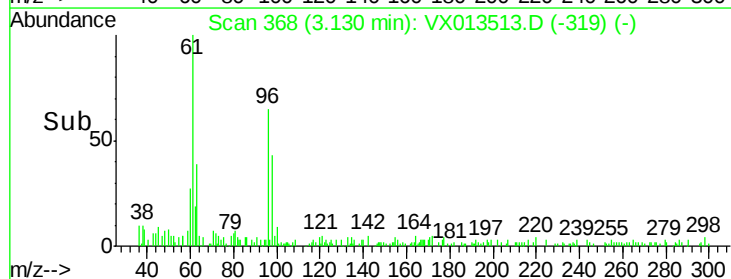
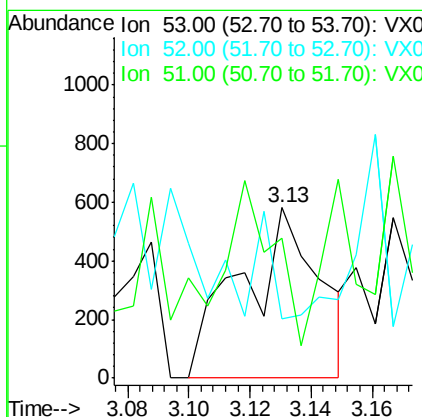
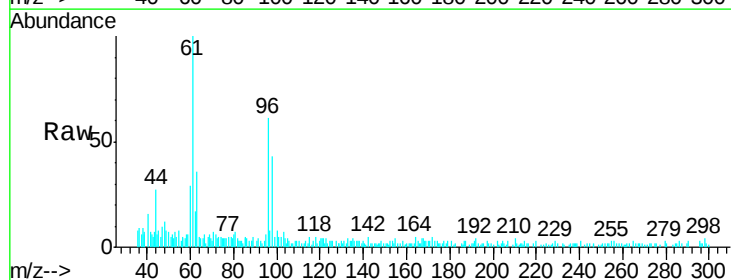
Instrument :
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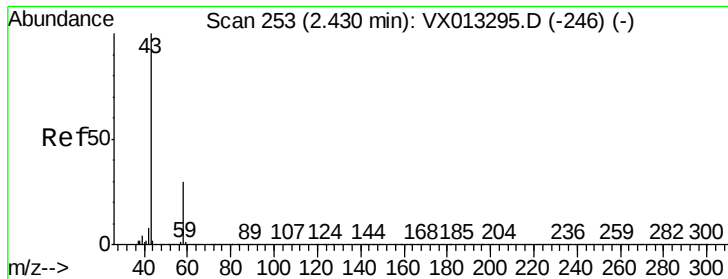
Tgt Ion: 56 Resp: 408
Ion Ratio Lower Upper
56 100
55 29.9 57.4 86.0#



#15
Acrylonitrile
Concen: 0.253 ug/l
RT: 3.13 min Scan# 368
Delta R.T. -0.00 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

Tgt Ion: 53 Resp: 1029
Ion Ratio Lower Upper
53 100
52 0.0 67.4 101.0#
51 53.7 29.4 44.2#

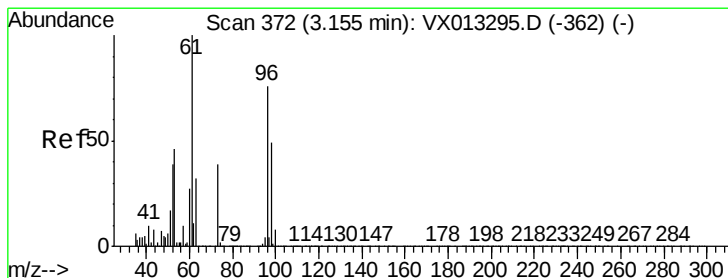
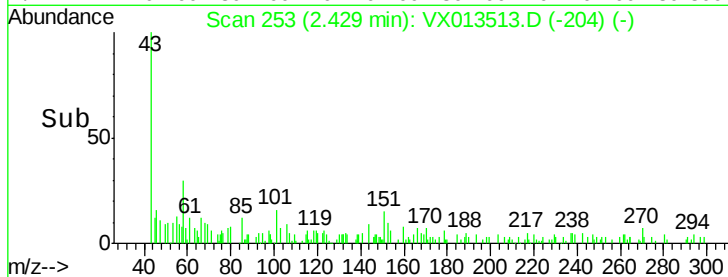
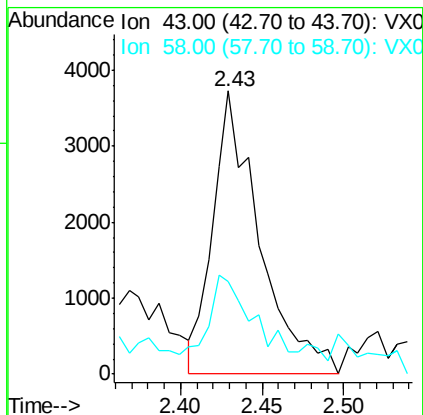
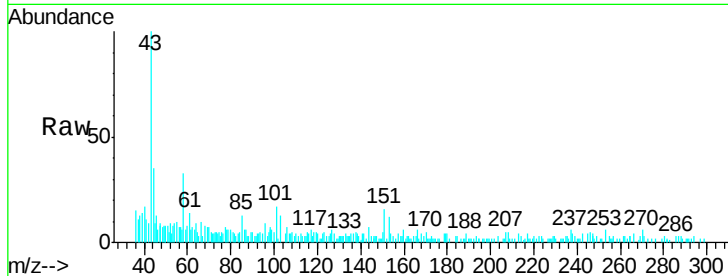




#16
Acetone
Concen: 1.796 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

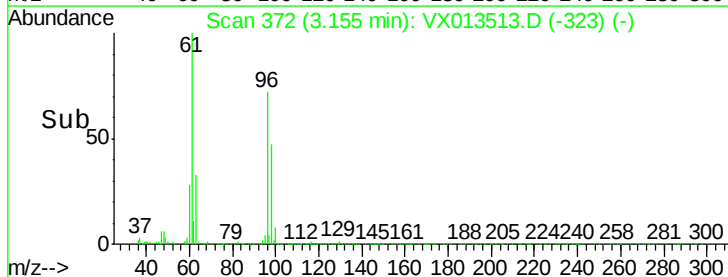
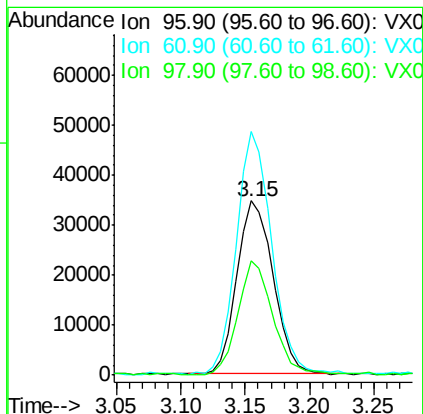
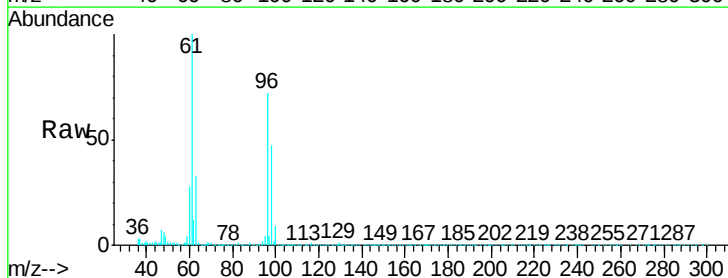
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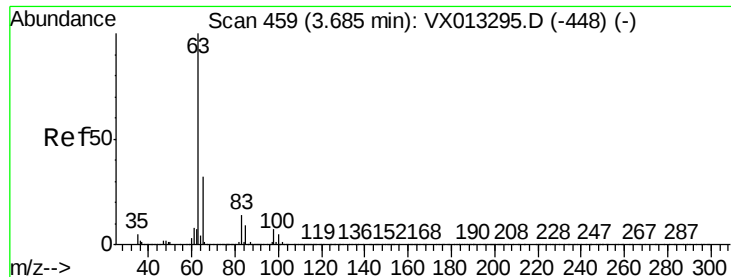
Tgt Ion: 43 Resp: 7406
Ion Ratio Lower Upper
43 100
58 23.3 24.3 36.5#



#21
trans-1,2-Dichloroethene
Concen: 9.734 ug/l
RT: 3.15 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

Tgt Ion: 96 Resp: 67830
Ion Ratio Lower Upper
96 100
61 140.5 105.8 158.6
98 65.6 51.8 77.6





#24

1,1-Dichloroethane

Concen: 0.238 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

29BR-20191120

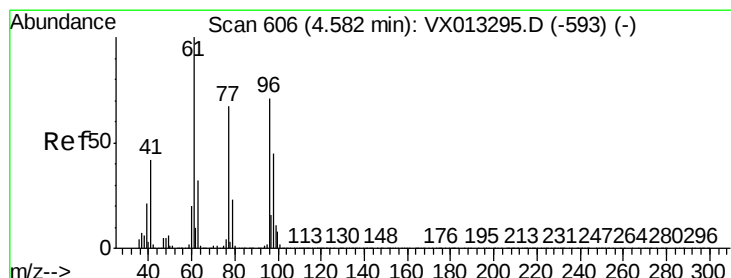
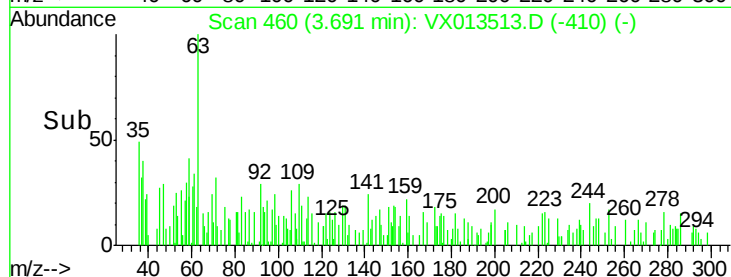
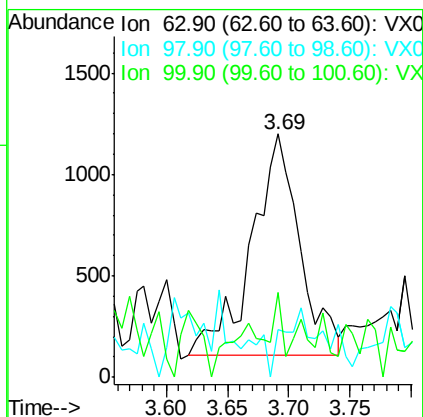
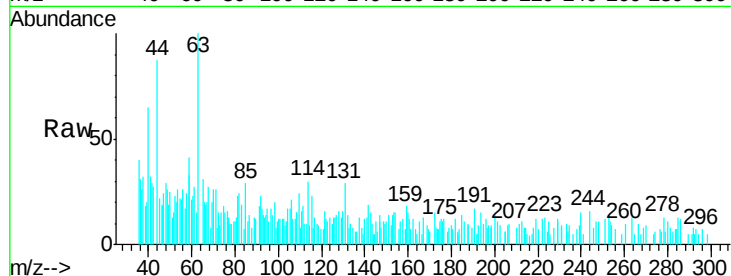
Tgt Ion: 63 Resp: 2988

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 28.8 2.4 7.2#



#27

cis-1,2-Dichloroethene

Concen: 272.501 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

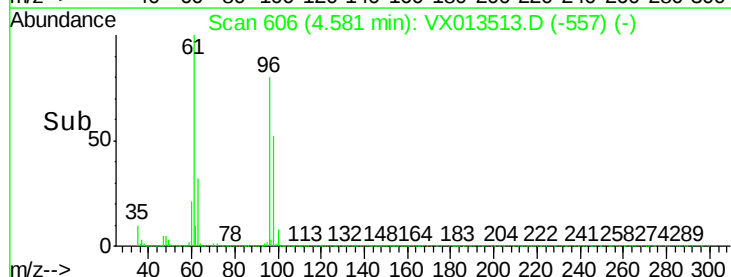
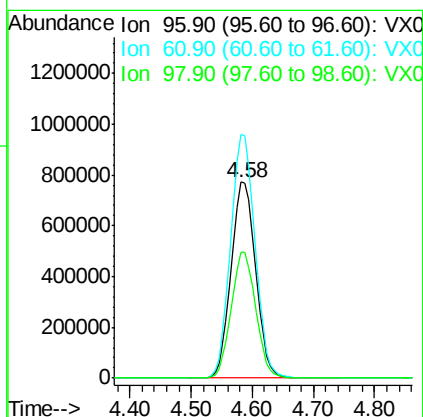
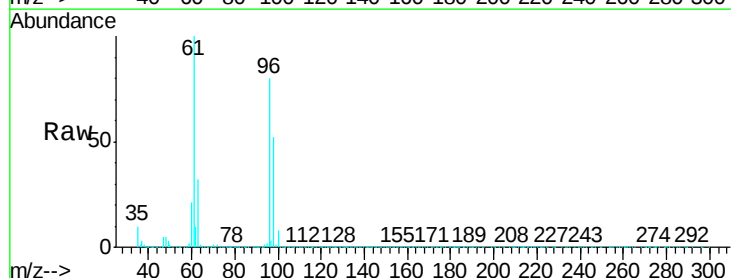
Tgt Ion: 96 Resp: 2127206

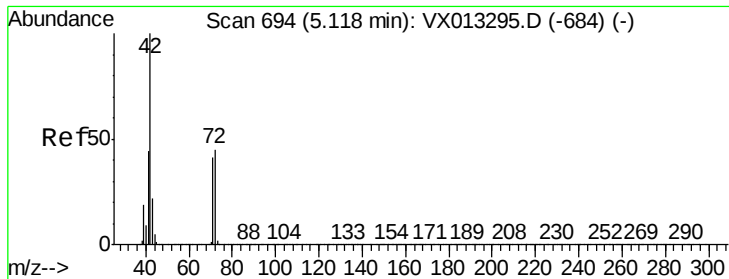
Ion Ratio Lower Upper

96 100

61 123.8 0.0 288.0

98 63.9 0.0 129.6

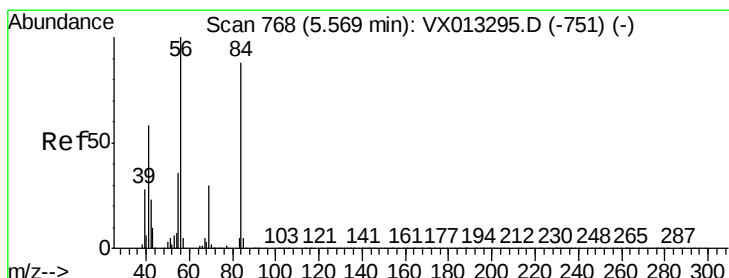
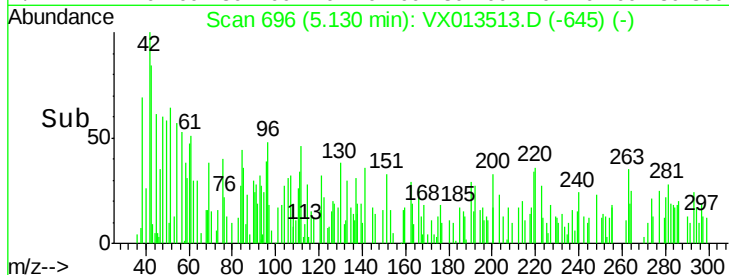
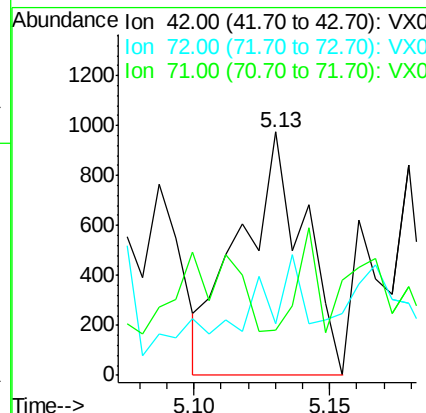
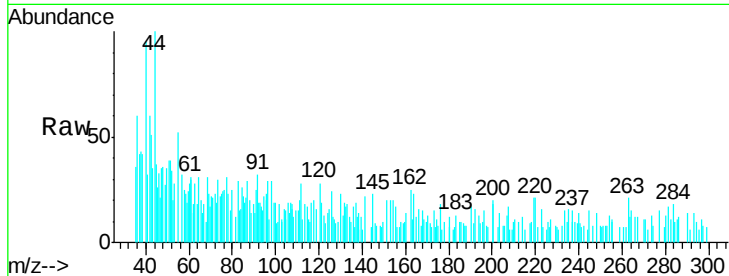




#29
Tetrahydrofuran
Concen: 0.426 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.01 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

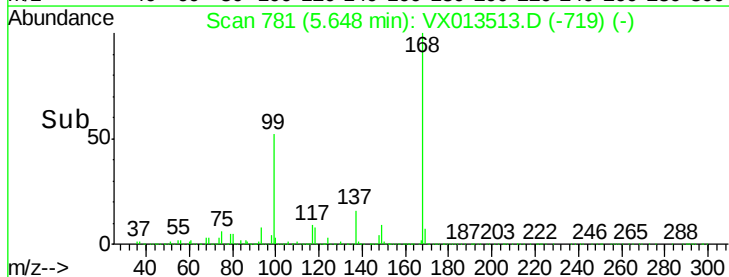
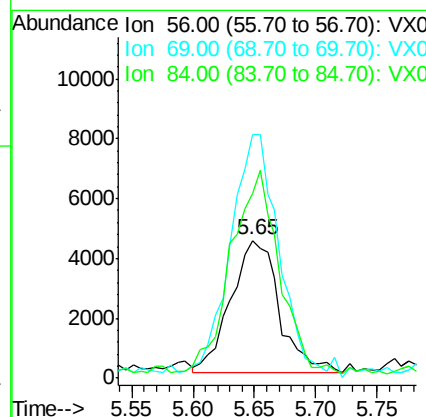
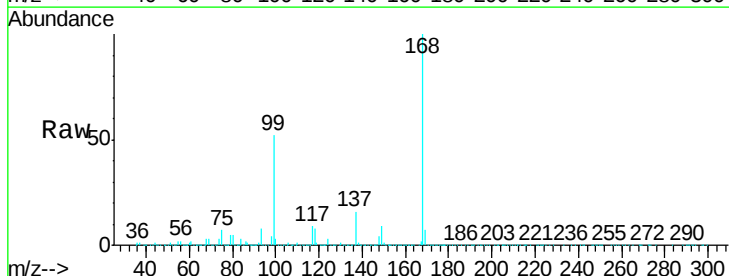
Instrument :
MSVOA_X
ClientSampleId :
29BR-20191120

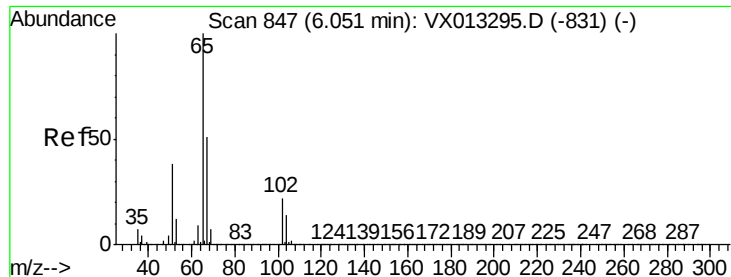
Tgt Ion: 42 Resp: 1588
Ion Ratio Lower Upper
42 100
72 21.0 35.8 53.8#
71 13.1 33.4 50.0#



#31
Cyclohexane
Concen: 1.087 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

Tgt Ion: 56 Resp: 12281
Ion Ratio Lower Upper
56 100
69 183.9 23.7 35.5#
84 136.3 70.6 105.8#





#33

1,2-Dichloroethane-d4

Concen: 49.859 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

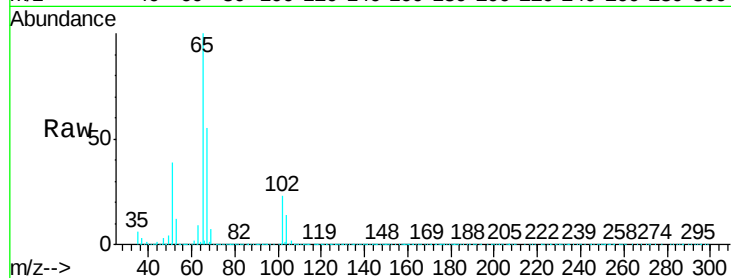
29BR-20191120

Tgt Ion: 65 Resp: 412131

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

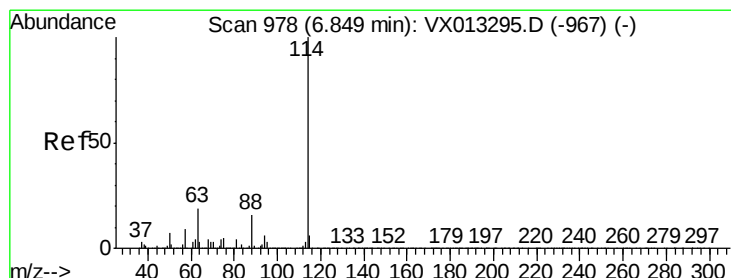
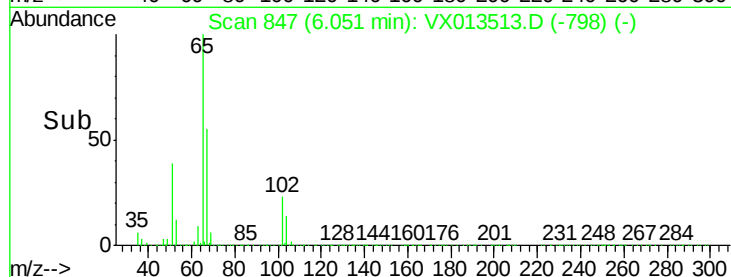
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

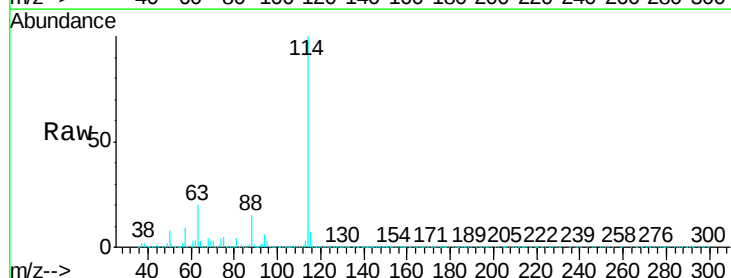
Tgt Ion: 114 Resp: 1128501

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

88 15.0 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

600000

500000

400000

300000

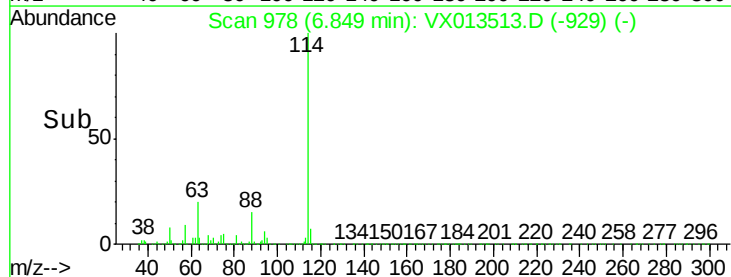
200000

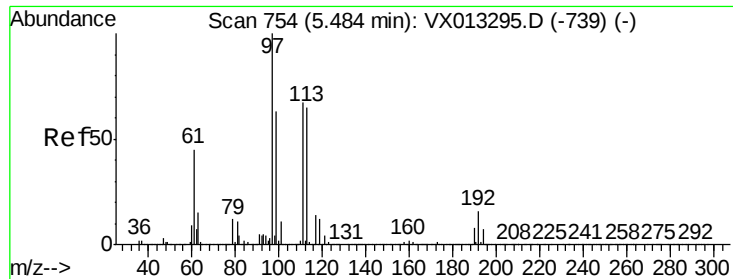
100000

0

Time-->

6.70 6.80 6.90 7.00

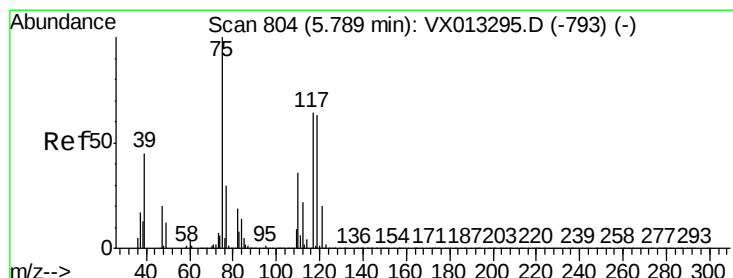
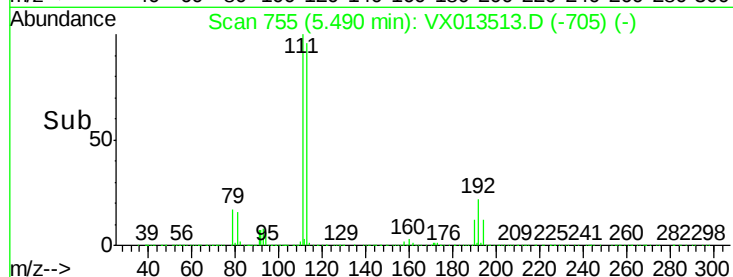
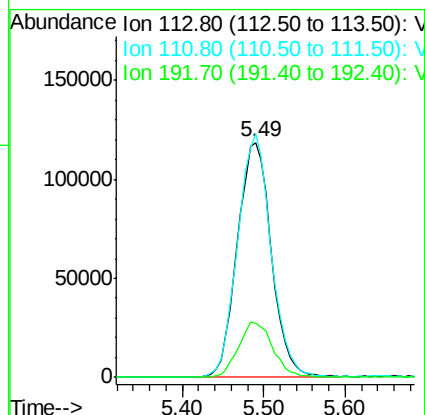
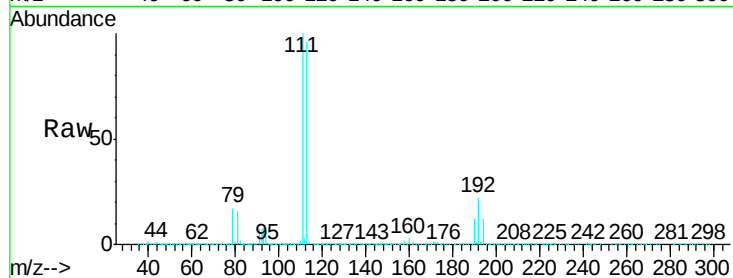




#35
Dibromofluoromethane
Concen: 48.381 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

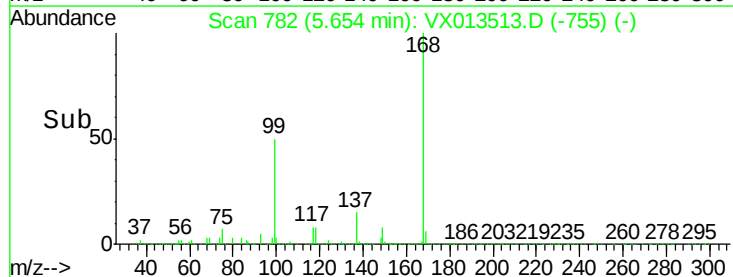
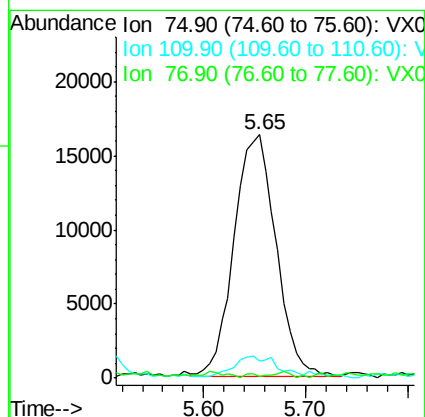
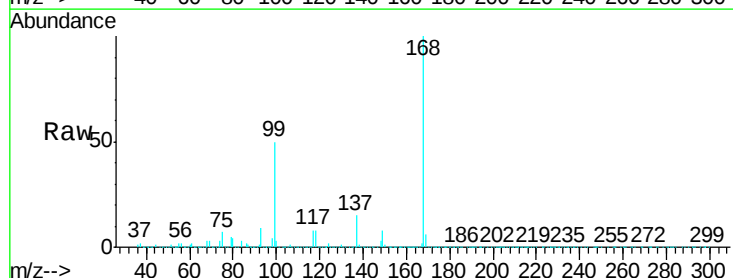
Instrument :
MSVOA_X
ClientSampleId :
29BR-20191120

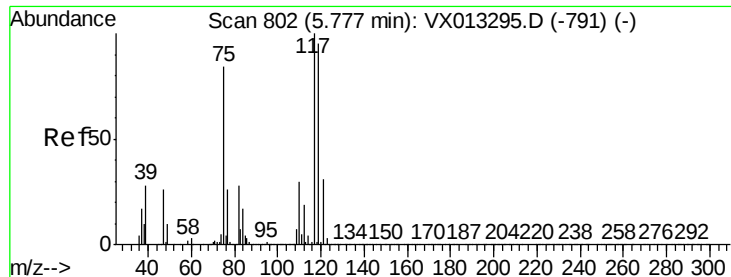
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.9	122.9
192	23.4	19.1	28.7



#36
1,1-Dichloropropene
Concen: 4.805 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.1#
77	0.5	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.383 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

29BR-20191120

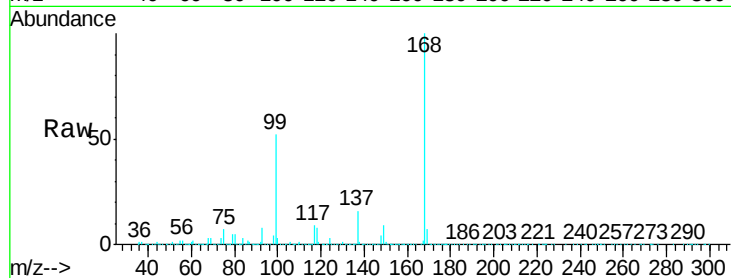
Tgt Ion:117 Resp: 60424

Ion Ratio Lower Upper

117 100

119 5.2 76.1 114.1#

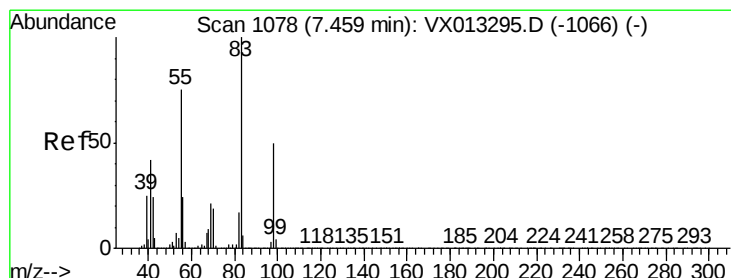
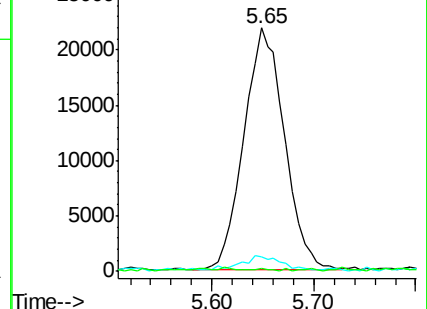
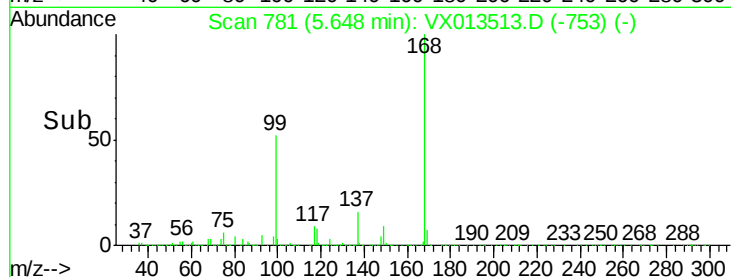
121 0.5 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 23.111 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. -0.24 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

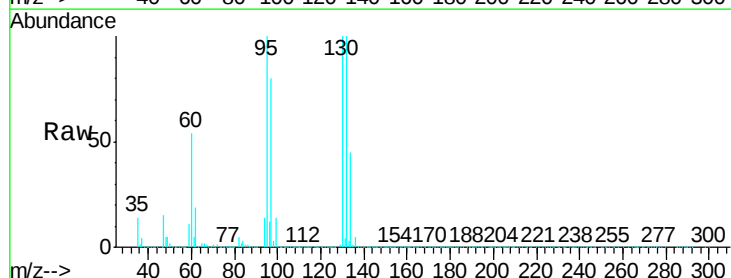
Tgt Ion: 83 Resp: 278785

Ion Ratio Lower Upper

83 100

55 0.1 60.3 90.5#

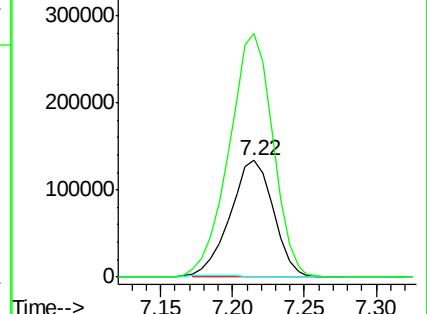
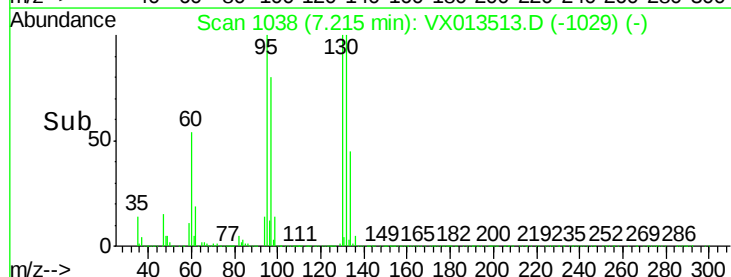
98 208.9 40.3 60.5#

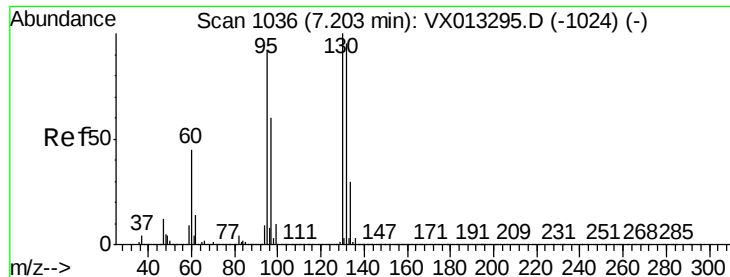


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 2564.544 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

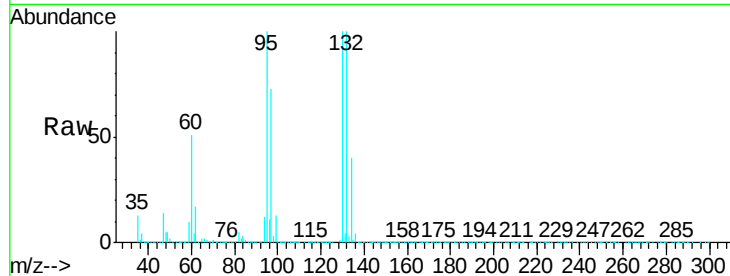
29BR-20191120

Tgt Ion:130 Resp:21288337

Ion Ratio Lower Upper

130 100

95 100.0 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

8000000

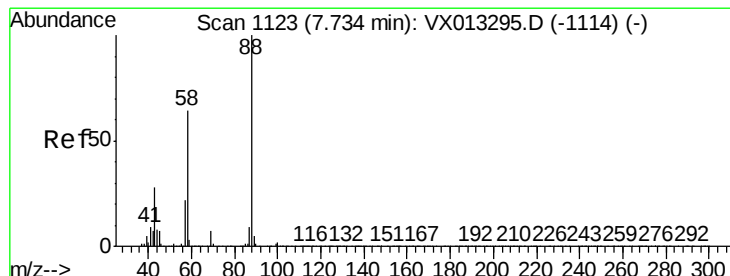
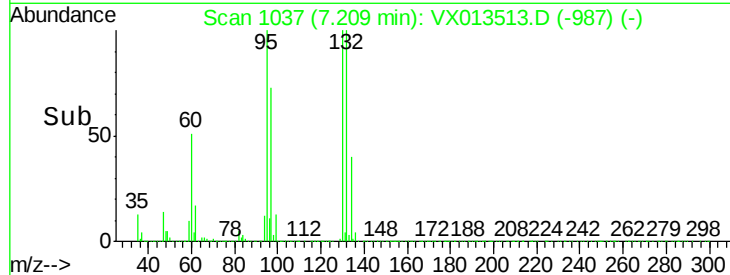
6000000

4000000

2000000

0

Time-->



#49

1,4-Dioxane

Concen: 2.254 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

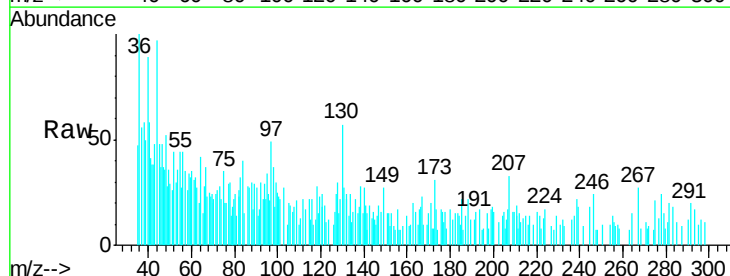
Tgt Ion: 88 Resp: 480

Ion Ratio Lower Upper

88 100

43 106.7 26.6 39.8#

58 147.5 55.0 82.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

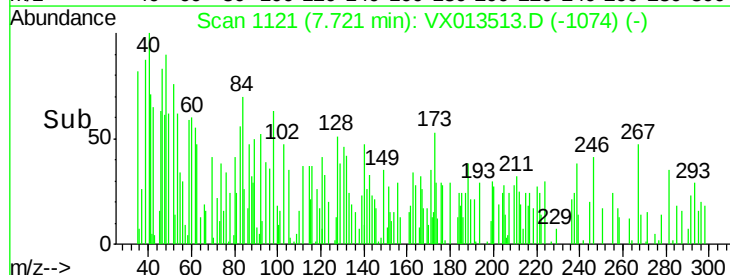
600

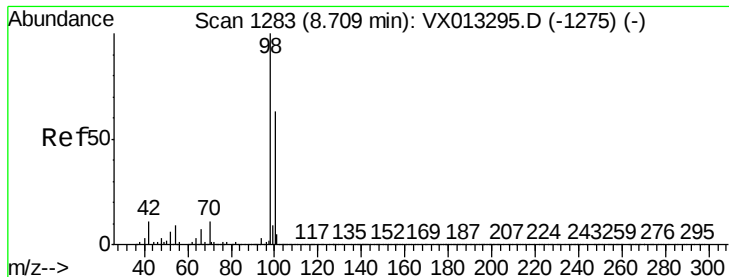
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.279 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

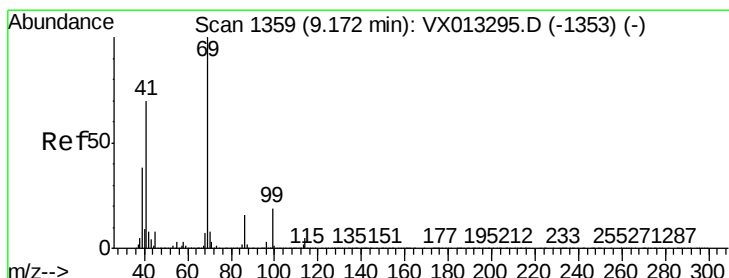
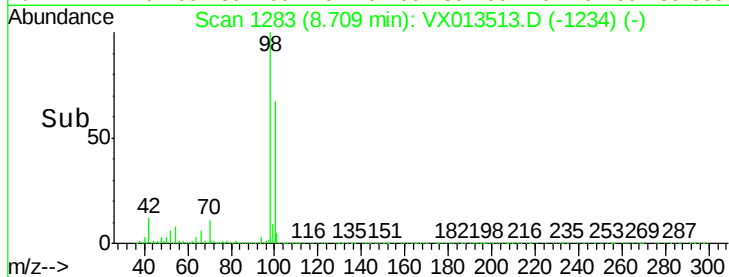
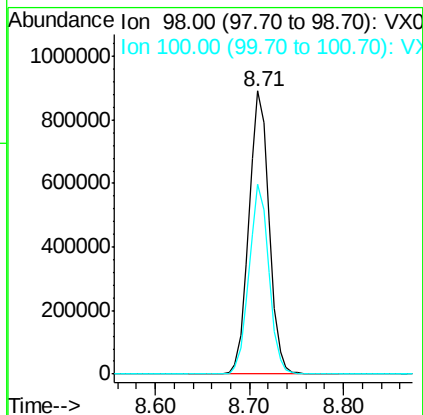
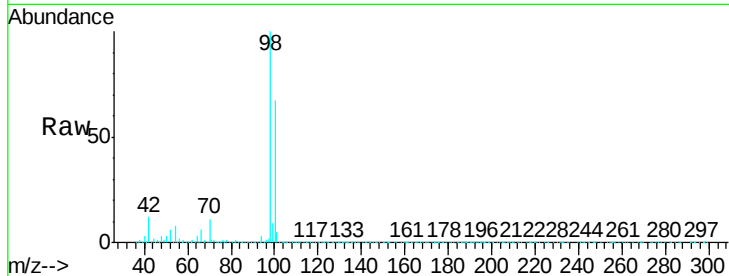
29BR-20191120

Tgt Ion: 98 Resp: 1341626

Ion Ratio Lower Upper

98 100

100 65.9 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.572 ug/l

RT: 9.16 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

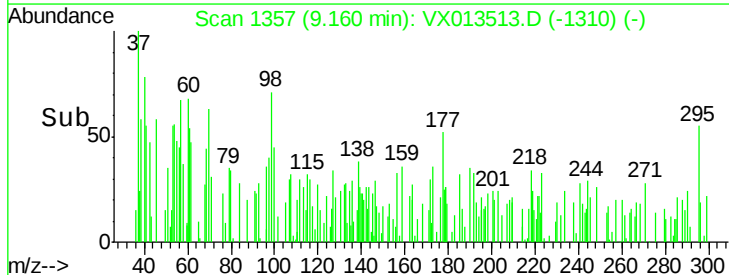
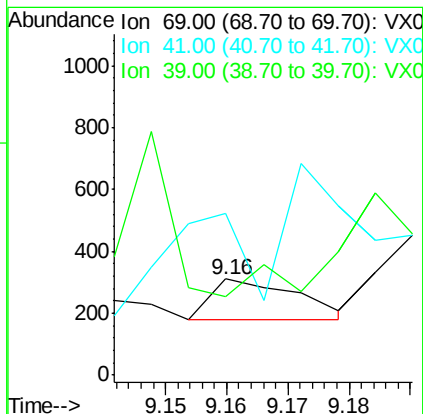
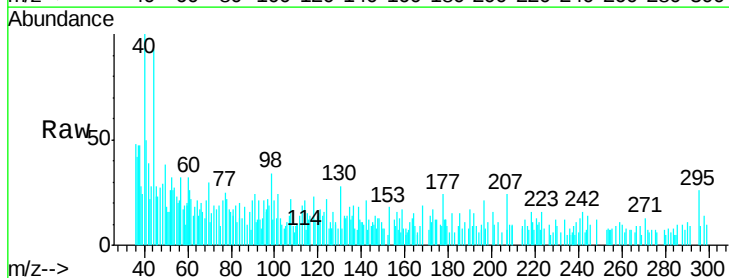
Tgt Ion: 69 Resp: 127

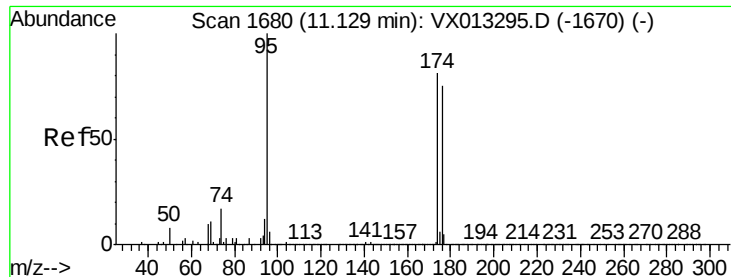
Ion Ratio Lower Upper

69 100

41 240.2 56.2 84.2#

39 0.0 31.1 46.7#

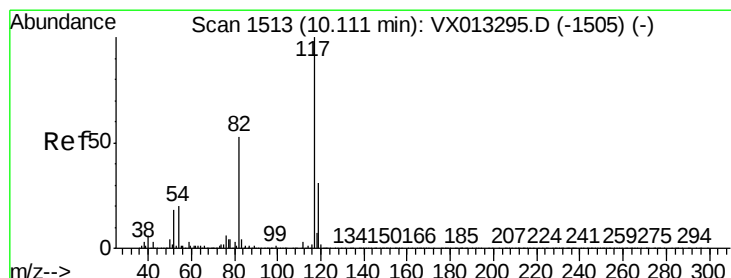
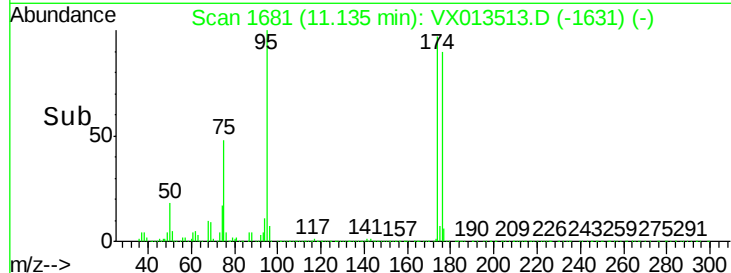
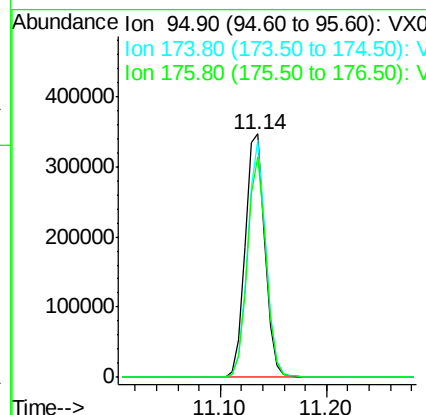
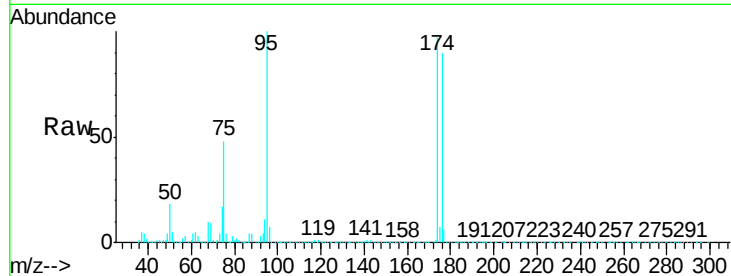




#62
 4-Bromofluorobenzene
 Concen: 46.929 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.01 min
 Lab File: VX013513.D
 Acq: 21 Nov 2019 19:06

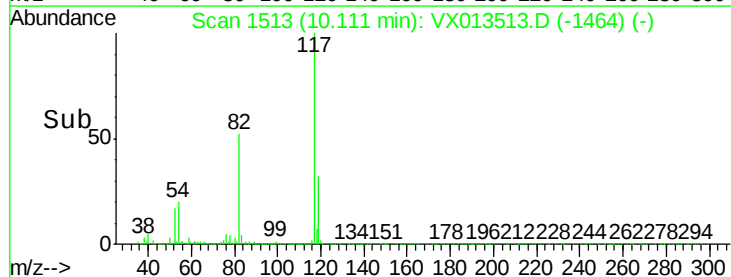
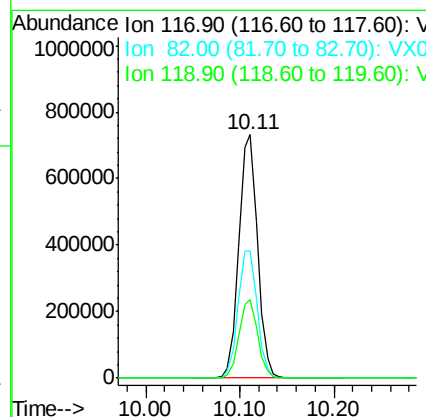
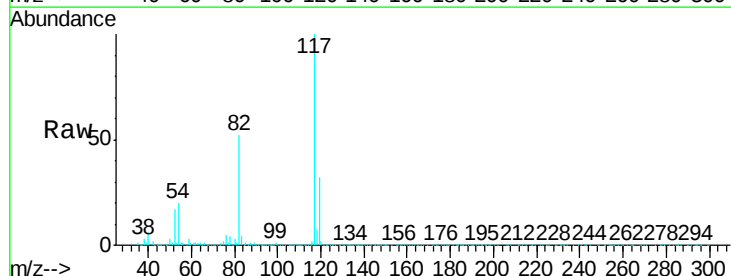
Instrument :
 MSVOA_X
 ClientSampleId :
 29BR-20191120

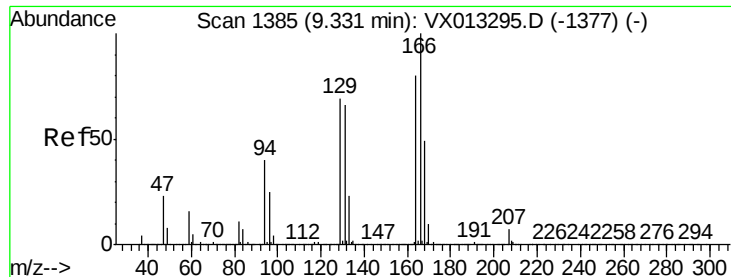
Tgt Ion: 95 Resp: 451936
 Ion Ratio Lower Upper
 95 100
 174 90.4 0.0 179.8
 176 85.7 0.0 173.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VX013513.D
 Acq: 21 Nov 2019 19:06

Tgt Ion: 117 Resp: 1004456
 Ion Ratio Lower Upper
 117 100
 82 52.3 42.6 64.0
 119 32.2 24.8 37.2





#64

Tetrachloroethene

Concen: 0.352 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

29BR-20191120

Tgt Ion:164 Resp: 2533

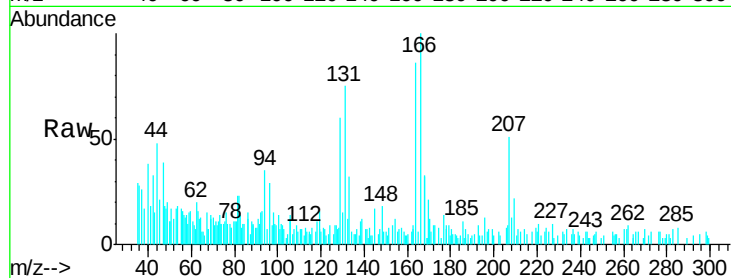
Ion Ratio Lower Upper

164 100

166 108.0 100.4 150.6

129 61.0 69.4 104.2#

131 70.7 66.6 100.0

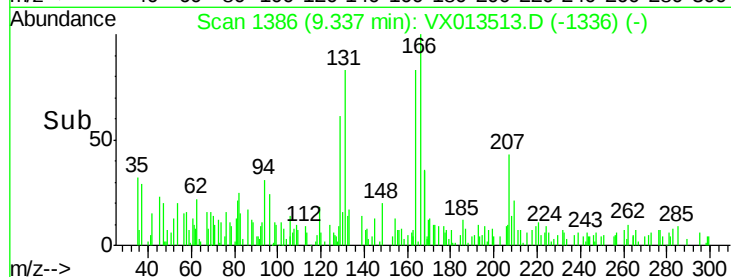


Abundance Ion 163.80 (163.50 to 164.50): V

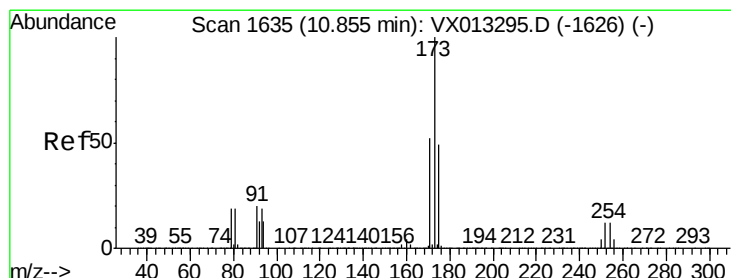
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#71

Bromoform

Concen: 3.239 ug/l

RT: 10.85 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

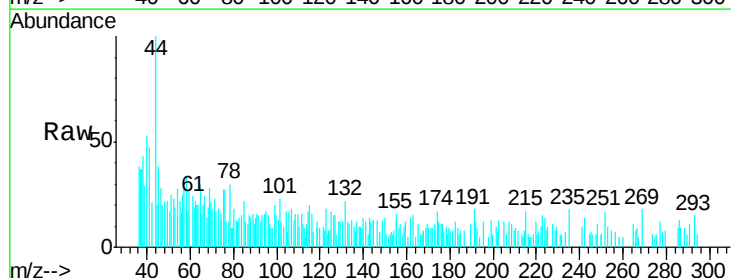
Tgt Ion:173 Resp: 269

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

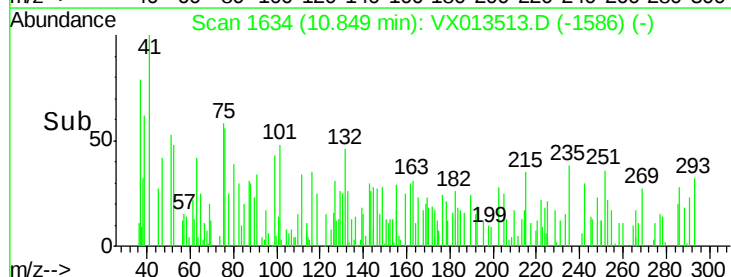
254 134.9 0.2 0.2#



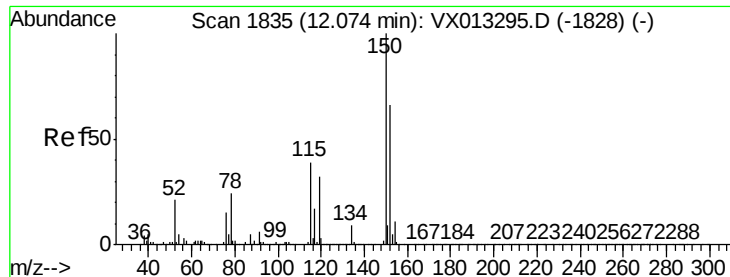
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time-->

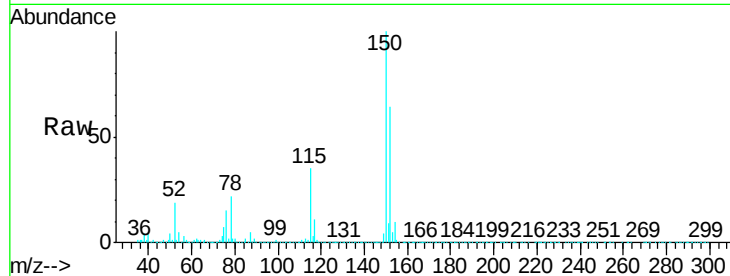


#72

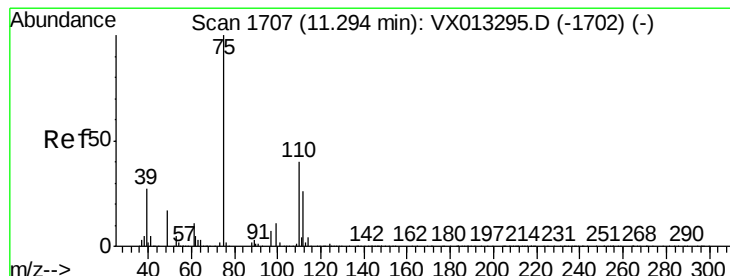
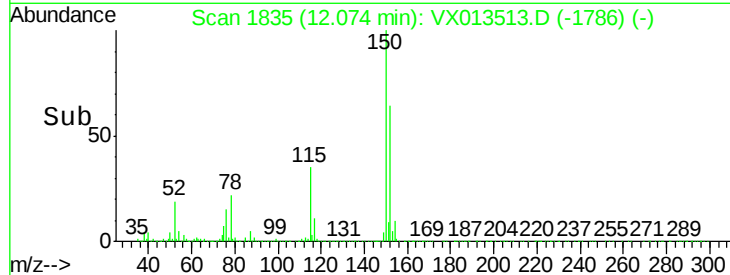
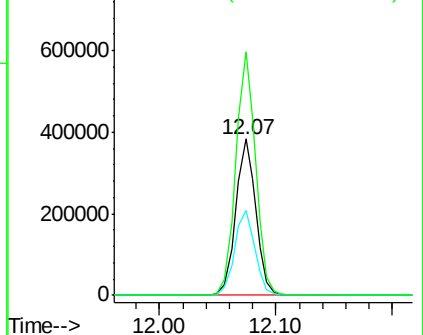
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

Instrument :
MSVOA_X
ClientSampleId :
29BR-20191120

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	39.5	118.3
150	154.5	0.0	344.4



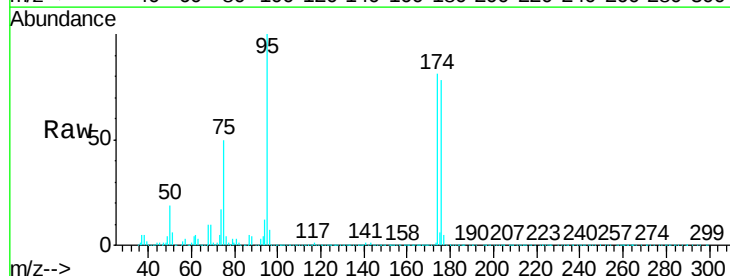
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



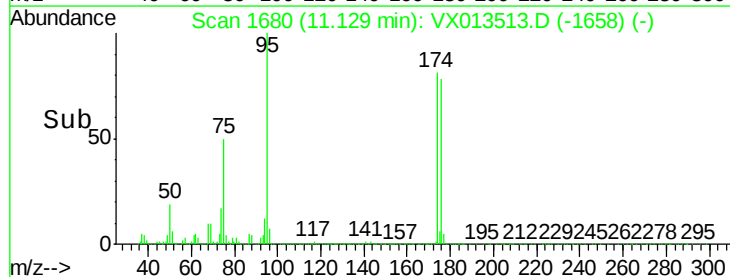
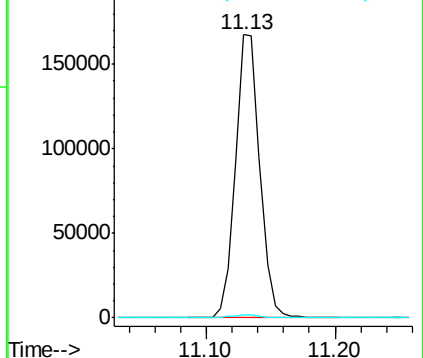
#76

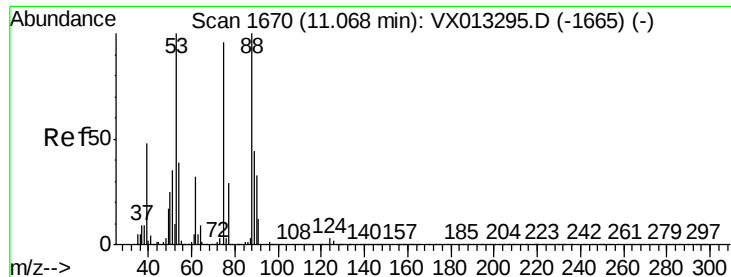
1,2,3-Trichloropropane
Concen: 23.737 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013513.D
Acq: 21 Nov 2019 19:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	22.3	66.8



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.099 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013513.D

Acq: 21 Nov 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

29BR-20191120

Tgt Ion: 75 Resp: 220853

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 36.0 54.0#

