

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013554.D
 Acq On : 23 Nov 2019 00:06
 Operator : JC/SP
 Sample : K5962-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 08BR-20191120DL

Quant Time: Nov 23 00:52:24 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	645239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1049495	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	938498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	427953	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	383365	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
35) Dibromofluoromethane	5.48	113	319434	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	8.71	98	1250118	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	11.14	95	418387	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	

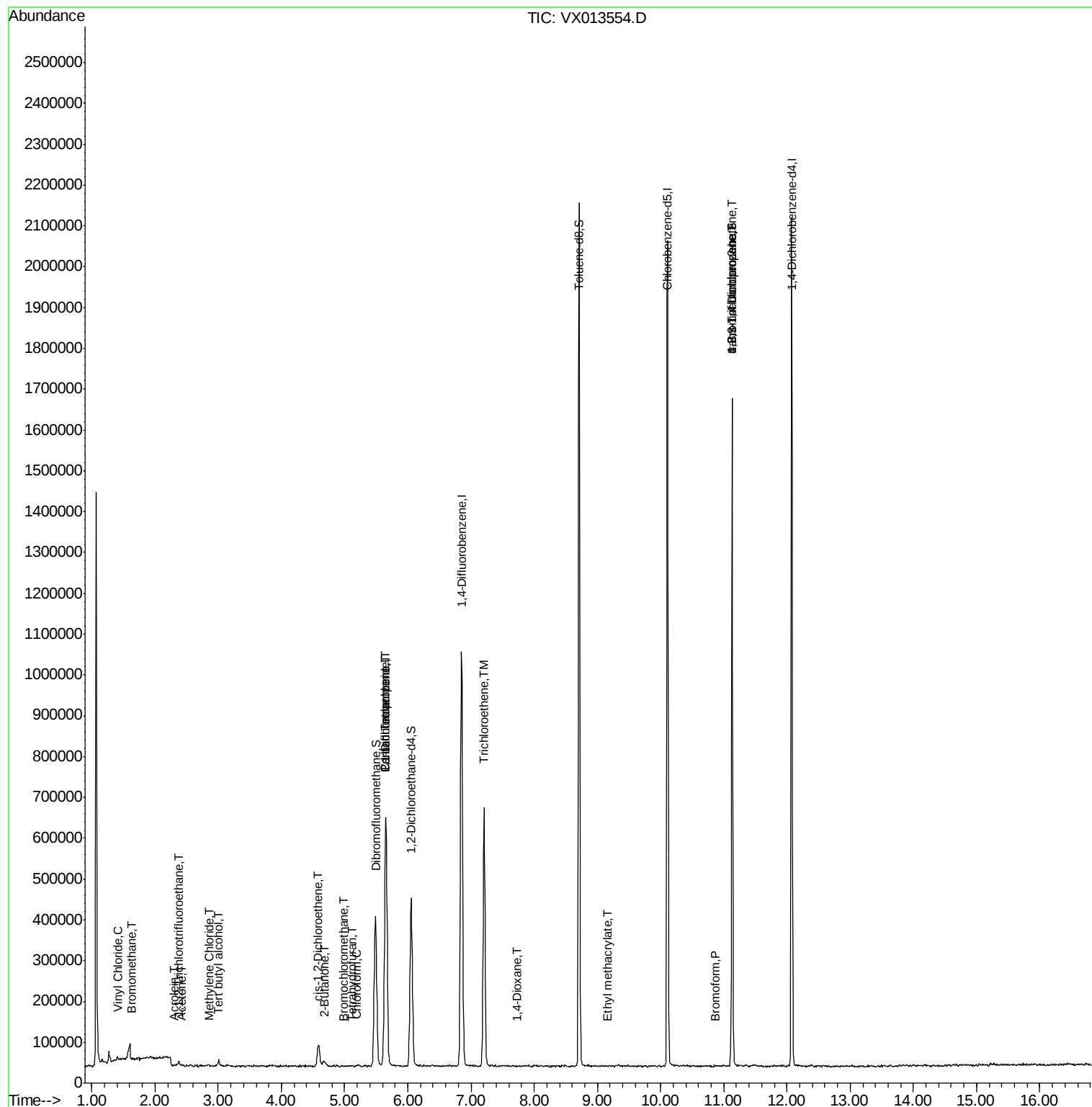
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	5930	0.646	ug/l	92
5) Bromomethane	1.64	94	1313	0.205	ug/l #	39
6) Chloroethane	1.71	64	460	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.38	101	3318	0.549	ug/l #	78
11) Tert butyl alcohol	3.01	59	9520	4.725	ug/l	100
13) Acrolein	2.30	56	224	0.205	ug/l #	1
16) Acetone	2.43	43	2974	0.780	ug/l	90
20) Methylene Chloride	2.85	84	1600	0.227	ug/l #	77
25) 2-Butanone	4.68	43	1525	0.273	ug/l #	64
27) cis-1,2-Dichloroethene	4.59	96	34693	4.806	ug/l	92
28) Bromochloromethane	5.00	49	914	0.277	ug/l #	87
29) Tetrahydrofuran	5.12	42	858	0.249	ug/l #	48
30) Chloroform	5.20	83	4051	0.353	ug/l #	75
36) 1,1-Dichloropropene	5.65	75	44455	4.938	ug/l #	42
38) Carbon Tetrachloride	5.65	117	54439	6.183	ug/l #	17
44) Trichloroethene	7.21	130	261316	33.850	ug/l	100
49) 1,4-Dioxane	7.73	88	264	1.333	ug/l #	1
56) Ethyl methacrylate	9.16	69	367	1.592	ug/l #	1
71) Bromoform	10.87	173	478	3.272	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	206906	23.803	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	206906	61.269	ug/l #	9

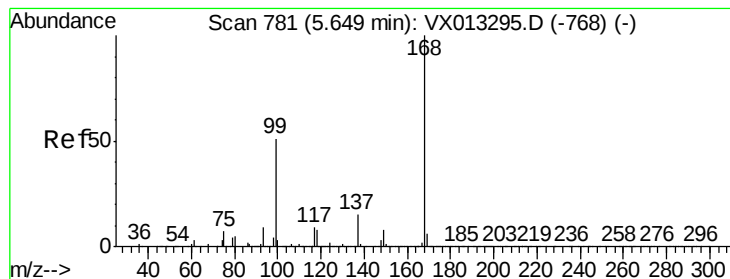
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

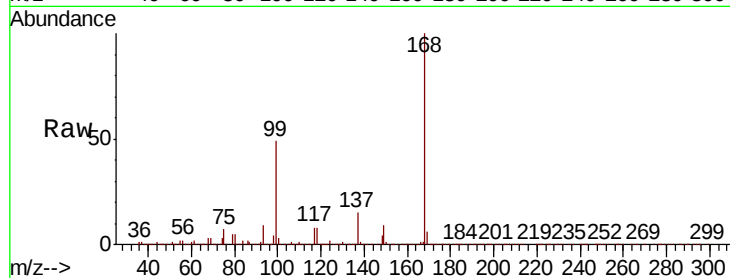
08BR-20191120DL

Tot Ion:168 Resp: 645239

Ion Ratio Lower Upper

168 100

99 48.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

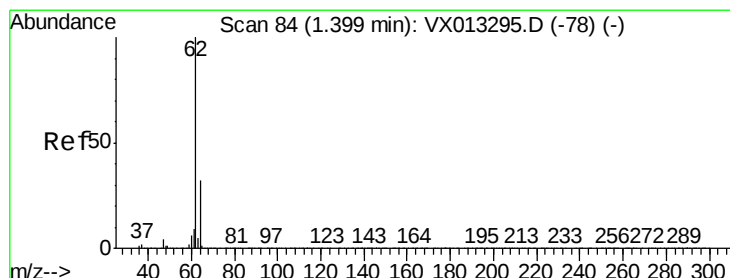
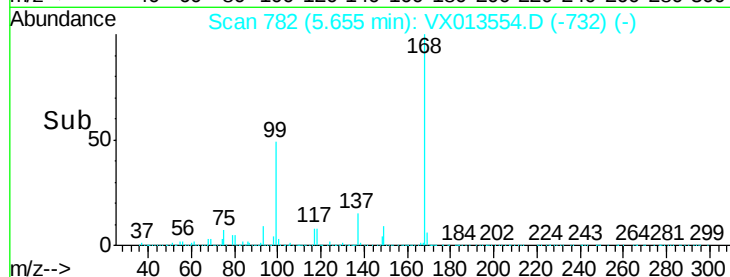
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.646 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013554.D

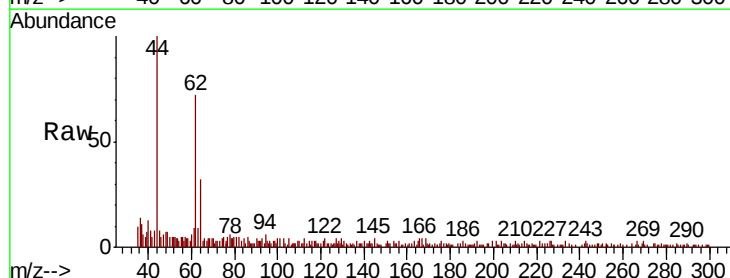
Acq: 23 Nov 2019 00:06

Tgt Ion: 62 Resp: 5930

Ion Ratio Lower Upper

62 100

64 36.4 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

5000

4000

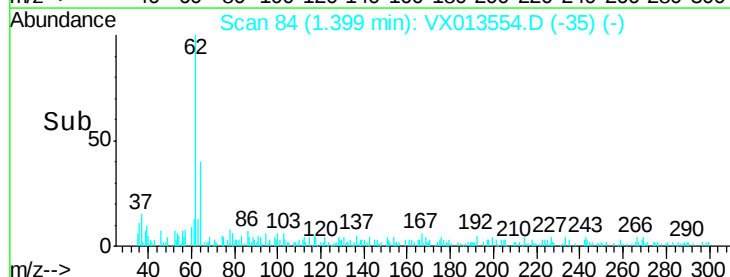
3000

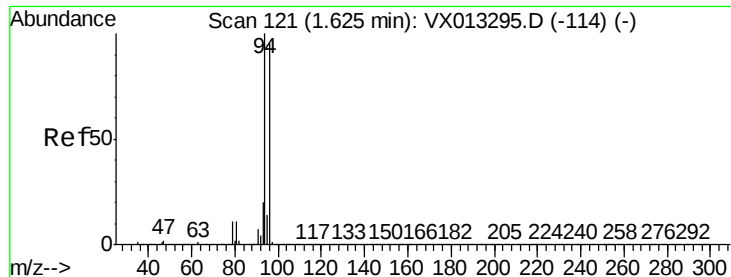
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.205 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

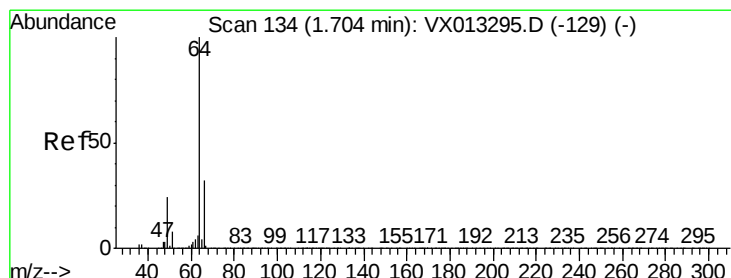
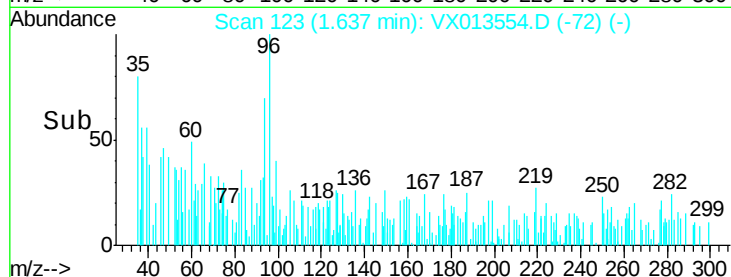
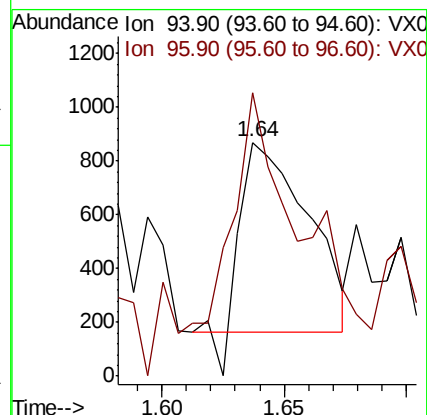
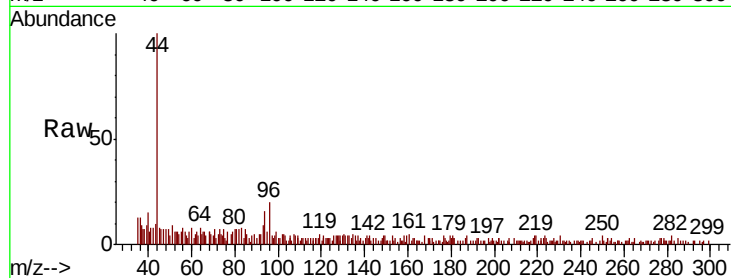
08BR-20191120DL

Tot Ion: 94 Resp: 1313

Ion Ratio Lower Upper

94 100

96 153.9 75.8 113.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX013554.D

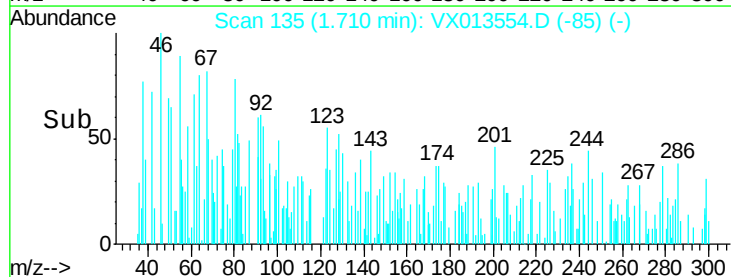
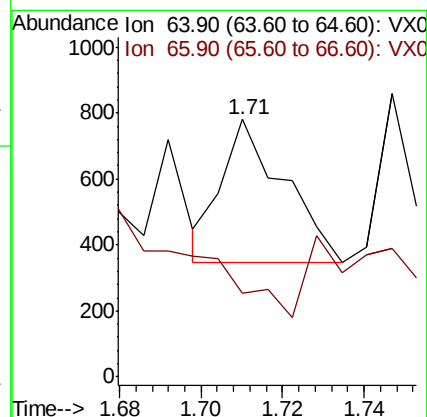
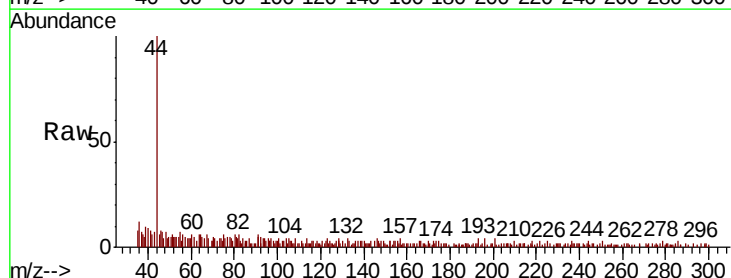
Acq: 23 Nov 2019 00:06

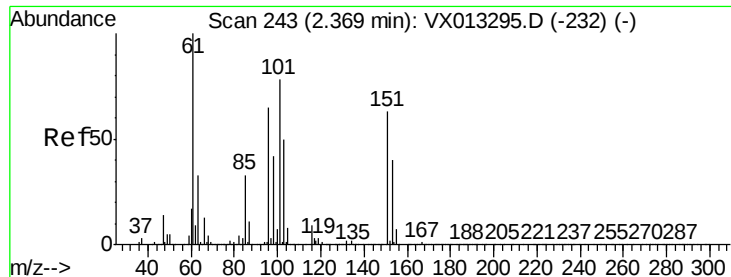
Tgt Ion: 64 Resp: 460

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.549 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

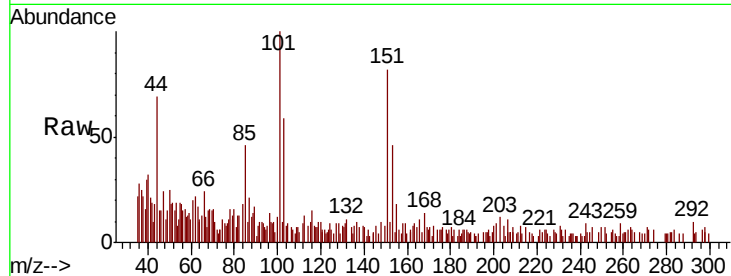
Tot Ion:101 Resp: 3318

Ion Ratio Lower Upper

101 100

85 66.5 34.4 51.6#

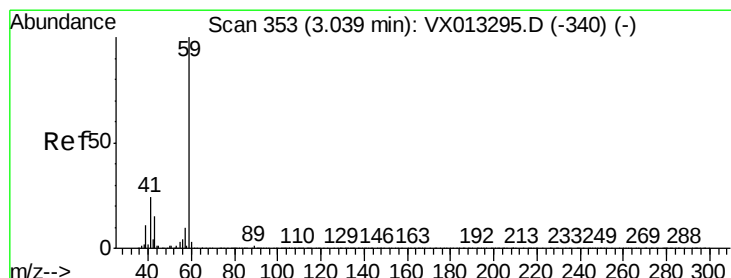
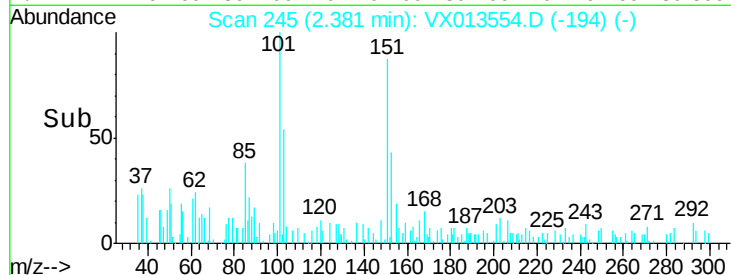
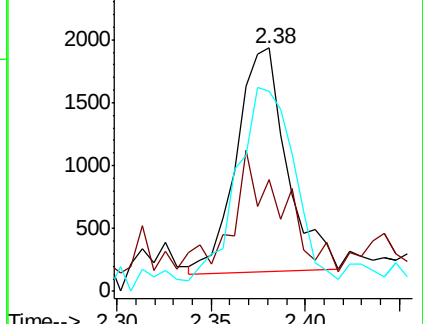
151 95.5 66.4 99.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 4.725 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX013554.D

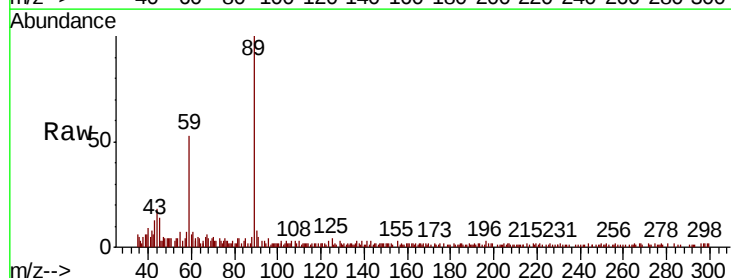
Acq: 23 Nov 2019 00:06

Tgt Ion: 59 Resp: 9520

Ion Ratio Lower Upper

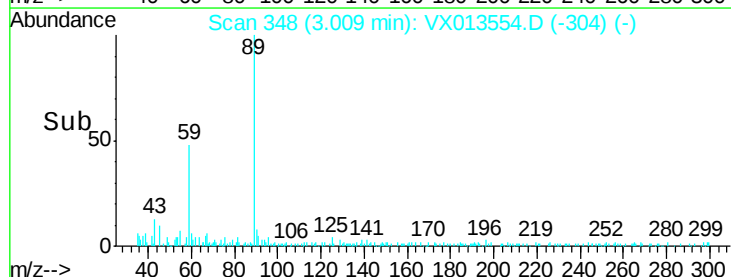
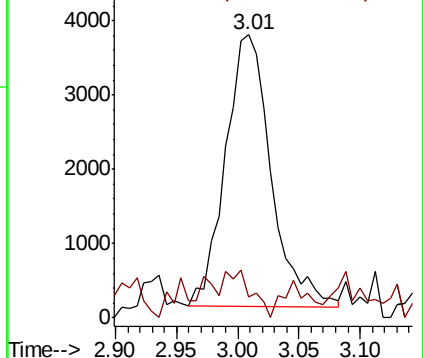
59 100

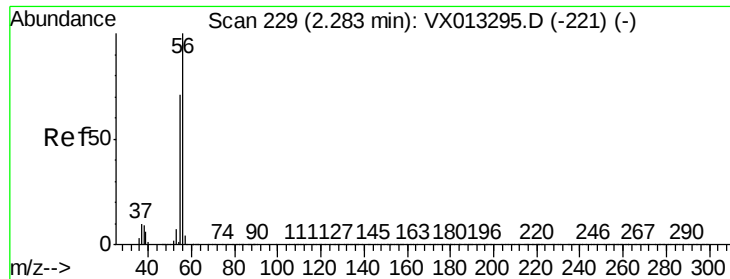
57 10.1 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.205 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

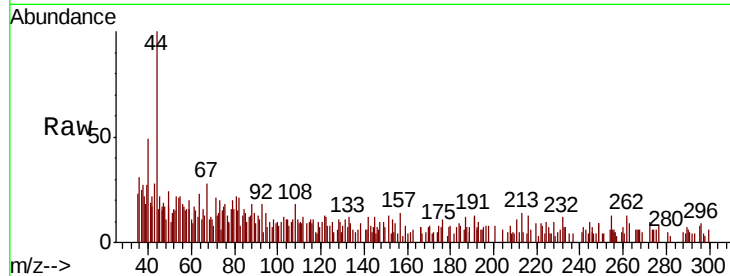
08BR-20191120DL

Tot Ion: 56 Resp: 224

Ion Ratio Lower Upper

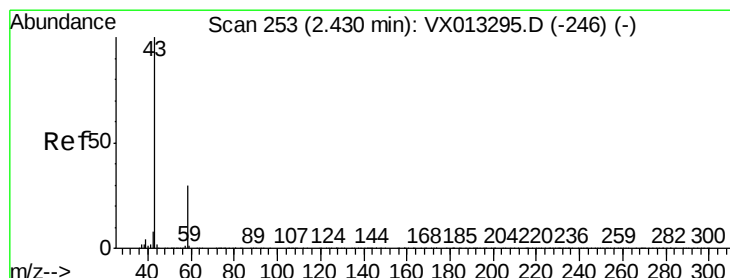
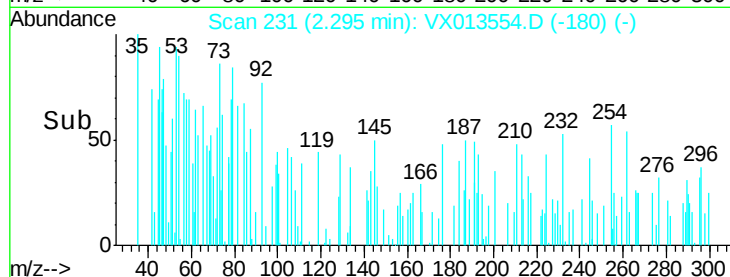
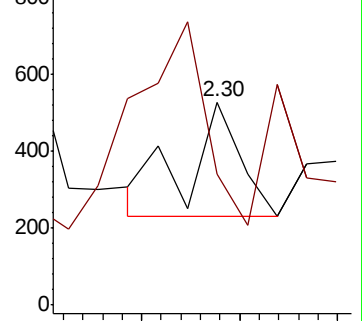
56 100

55 249.6 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.780 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013554.D

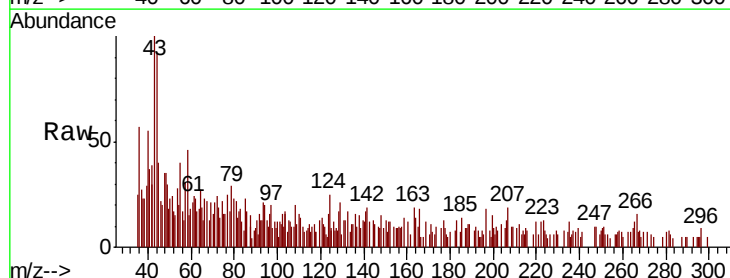
Acq: 23 Nov 2019 00:06

Tgt Ion: 43 Resp: 2974

Ion Ratio Lower Upper

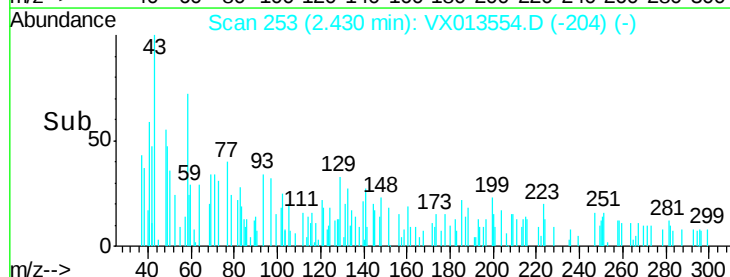
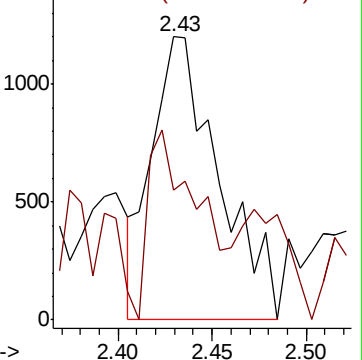
43 100

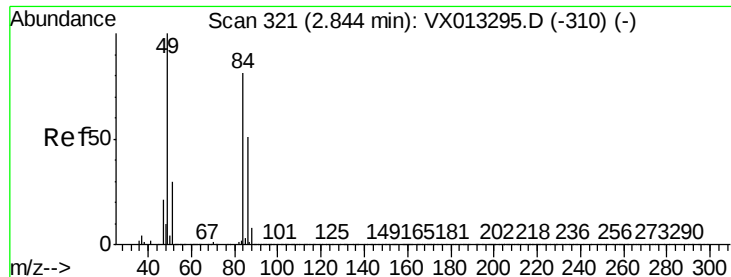
58 35.8 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methvlene Chloride

Concen: 0.227 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

Tot Ion: 84 Resp: 1600

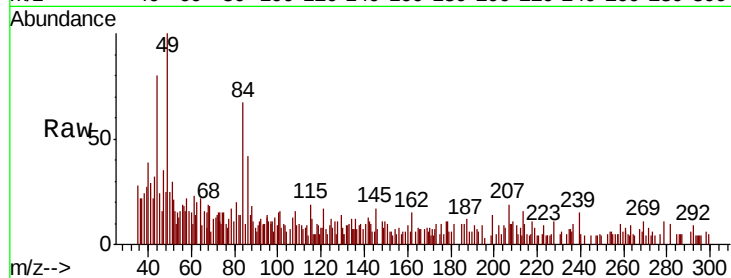
Ion Ratio Lower Upper

84 100

49 158.7 98.2 147.4#

51 19.3 29.9 44.9#

86 64.5 49.9 74.9

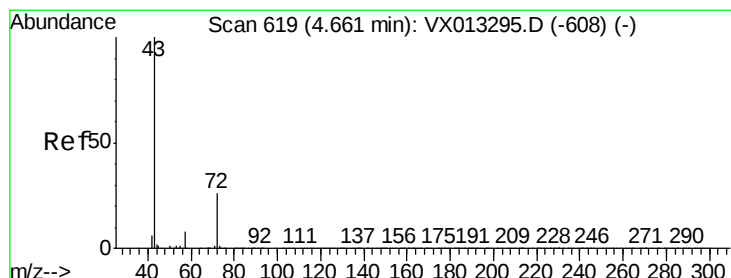
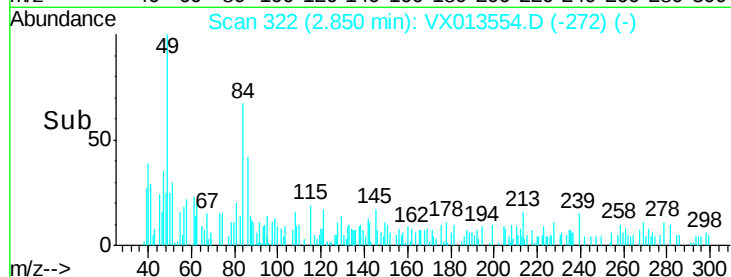
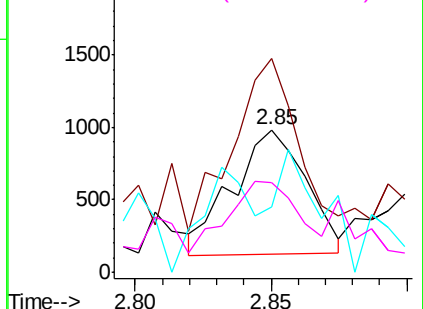


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.273 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013554.D

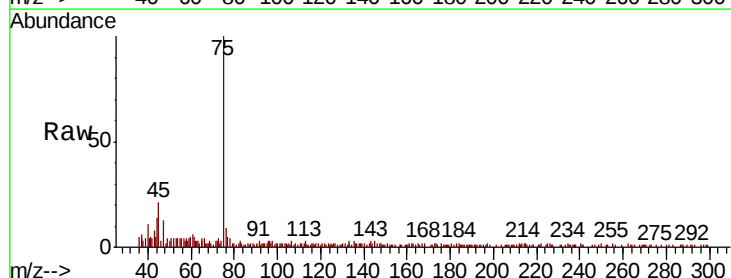
Acq: 23 Nov 2019 00:06

Tgt Ion: 43 Resp: 1525

Ion Ratio Lower Upper

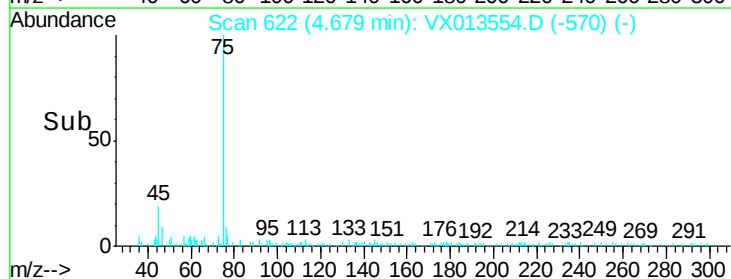
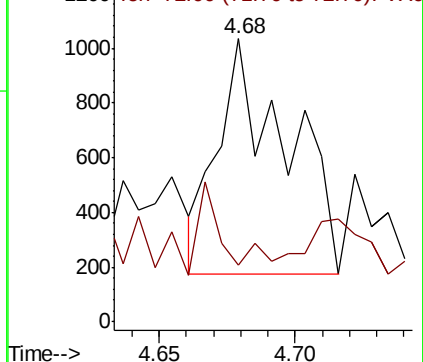
43 100

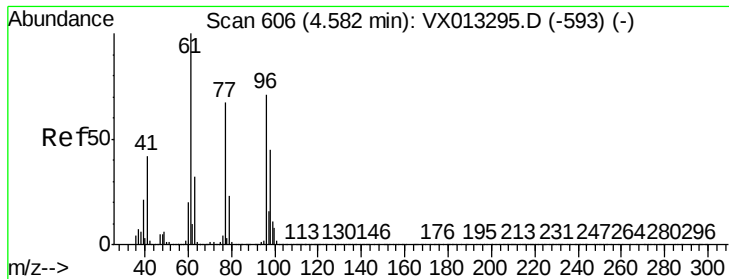
72 44.9 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



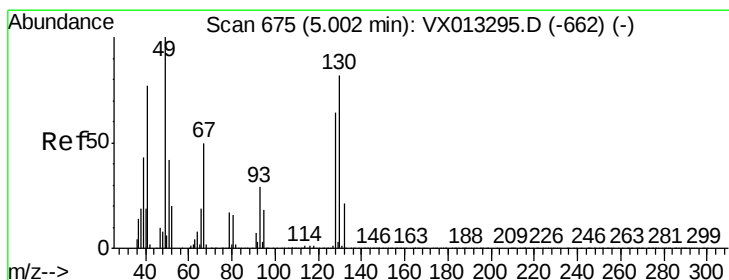
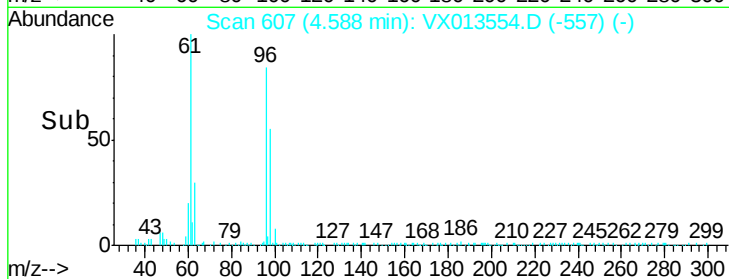
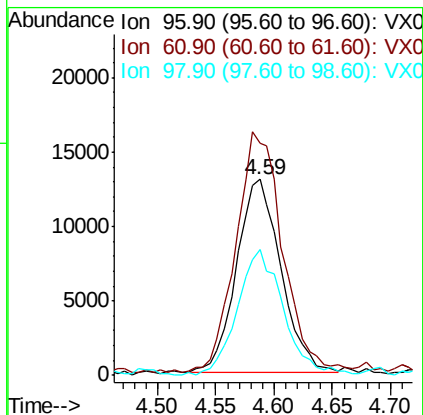
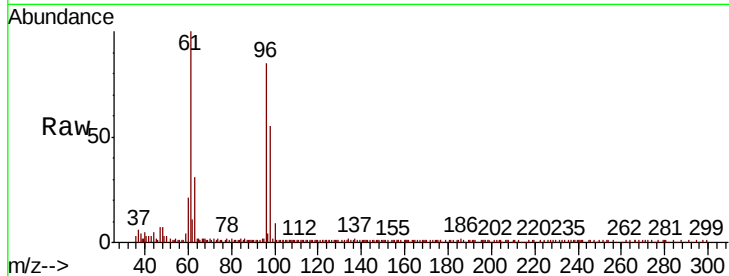


#27

cis-1,2-Dichloroethene
Concen: 4.806 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013554.D
Acq: 23 Nov 2019 00:06

Instrument :
MSVOA_X
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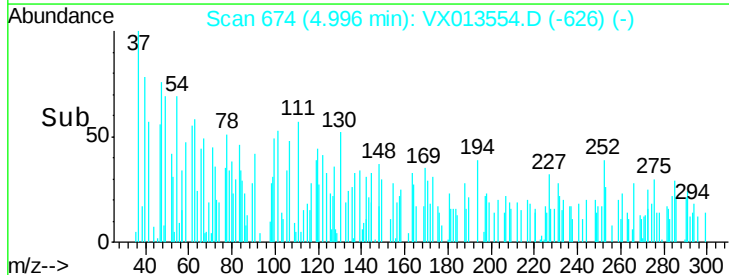
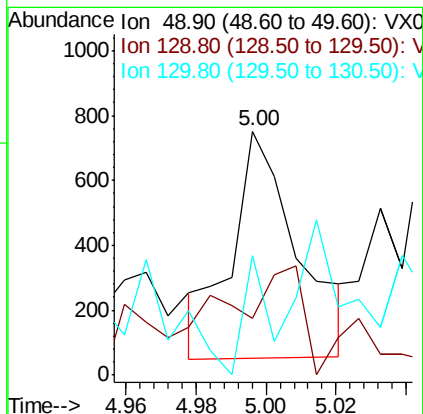
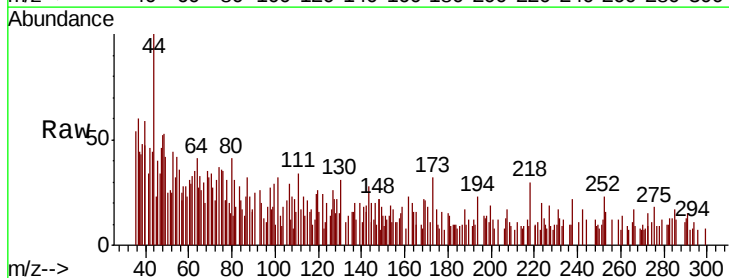
Tot Ion	Ratio	Lower	Upper
96	100		
61	130.7	0.0	288.0
98	67.3	0.0	129.6

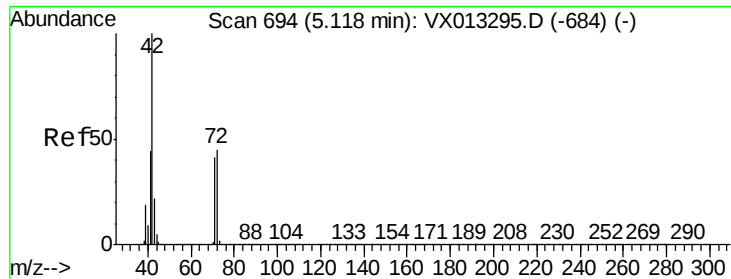


#28

Bromochloromethane
Concen: 0.277 ug/l
RT: 5.00 min Scan# 674
Delta R.T. -0.01 min
Lab File: VX013554.D
Acq: 23 Nov 2019 00:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	41.1	0.0	5.2#
130	71.1	63.8	95.6





#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 5.12 min Scan# 694

Delta R.T. -0.00 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

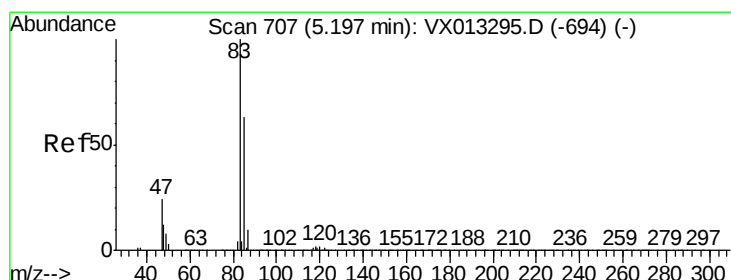
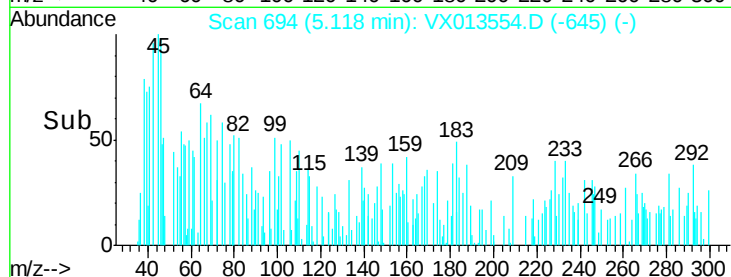
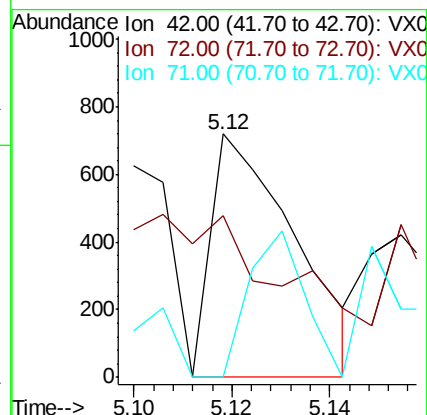
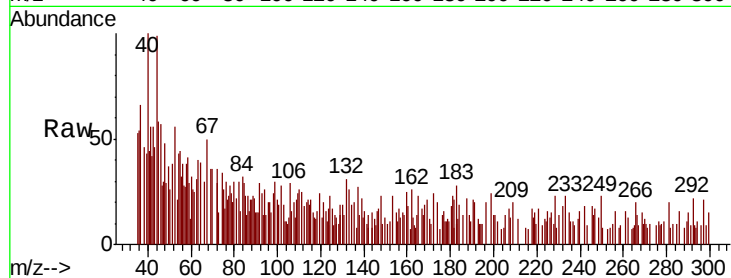
Tot Ion: 42 Resp: 858

Ion Ratio Lower Upper

42 100

72 69.8 35.8 53.8#

71 0.0 33.4 50.0#



#30

Chloroform

Concen: 0.353 ug/l

RT: 5.20 min Scan# 707

Delta R.T. 0.00 min

Lab File: VX013554.D

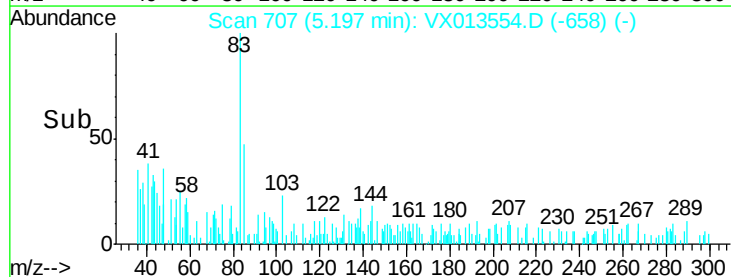
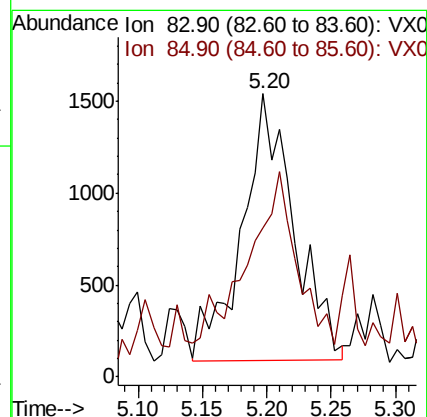
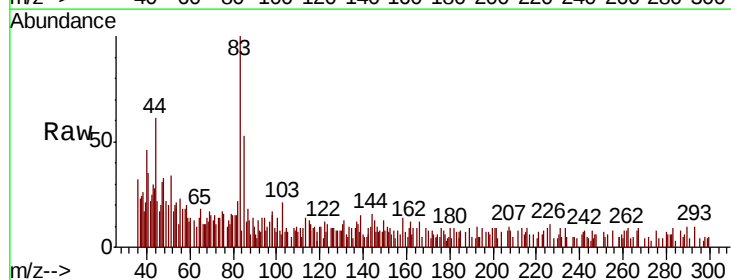
Acq: 23 Nov 2019 00:06

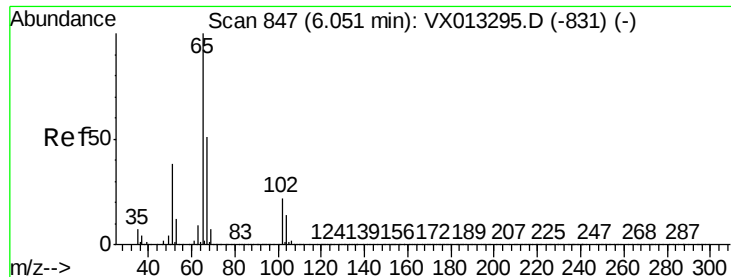
Tgt Ion: 83 Resp: 4051

Ion Ratio Lower Upper

83 100

85 43.7 50.2 75.4#





#33

1,2-Dichloroethane-d4

Concen: 50.151 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

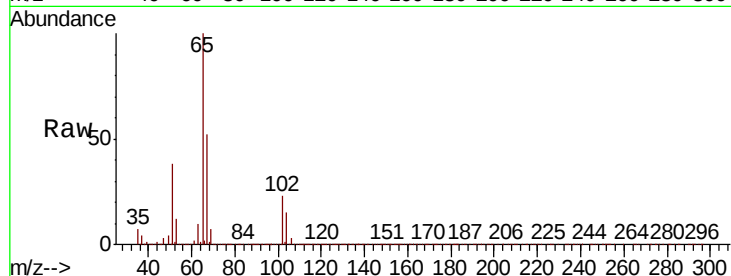
08BR-20191120DL

Tot Ion: 65 Resp: 383365

Ion Ratio Lower Upper

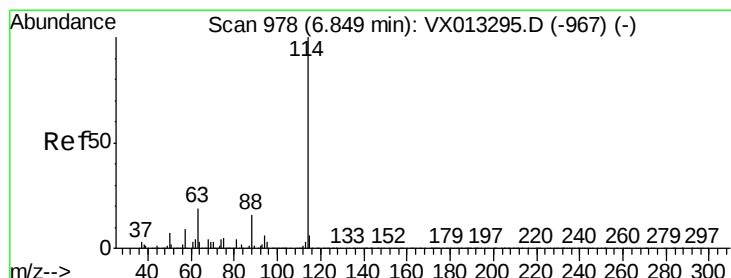
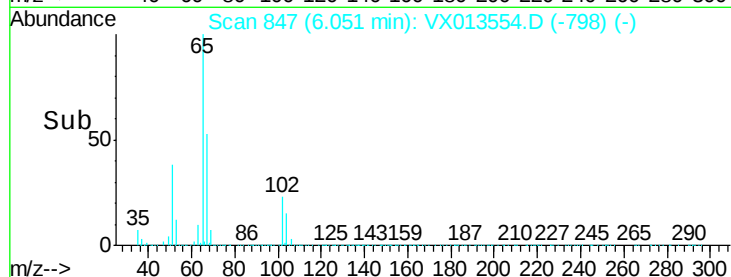
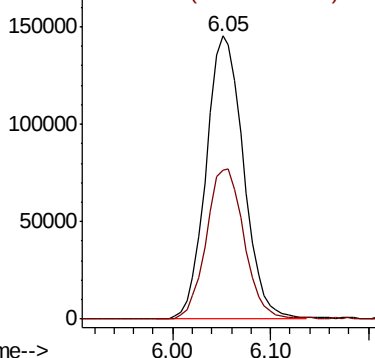
65 100

67 53.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

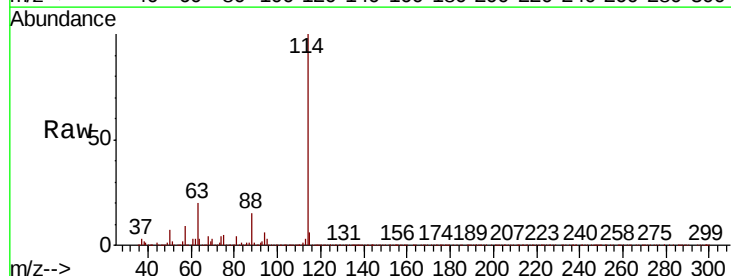
Tgt Ion: 114 Resp: 1049495

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

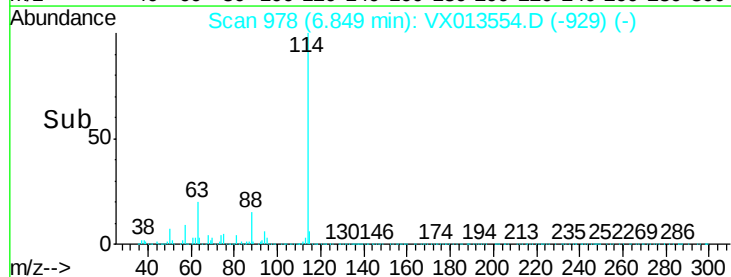
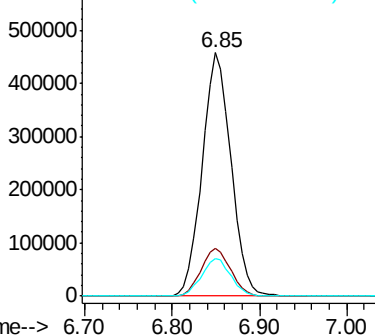
88 15.4 0.0 32.2

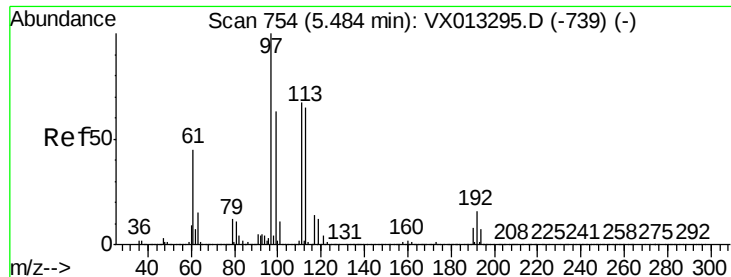


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

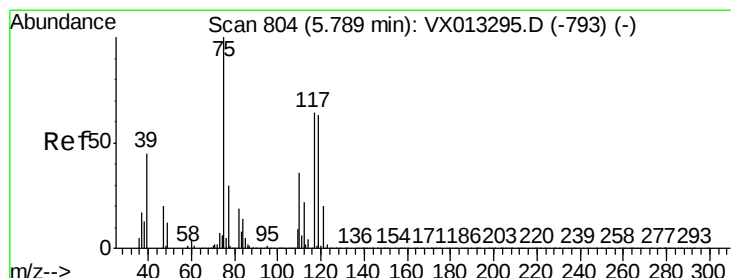
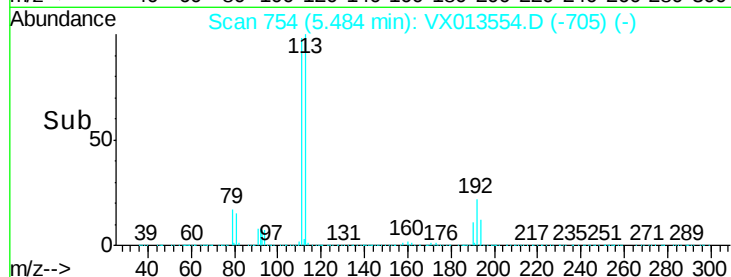
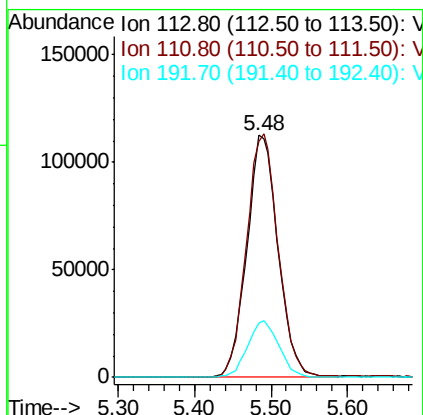
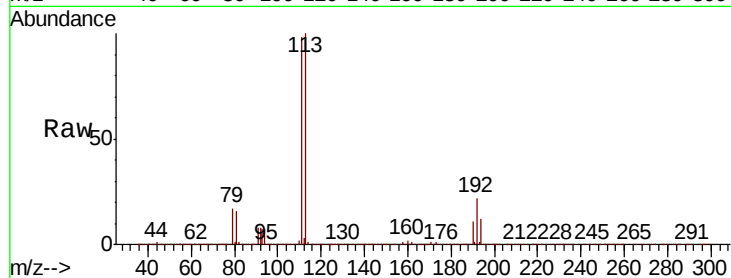




#35
 Dibromofluoromethane
 Concen: 48.527 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: VX013554.D
 Acq: 23 Nov 2019 00:06

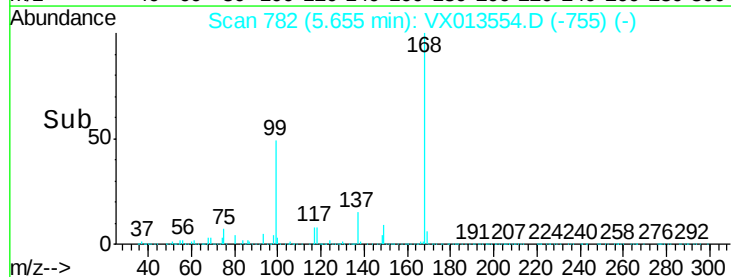
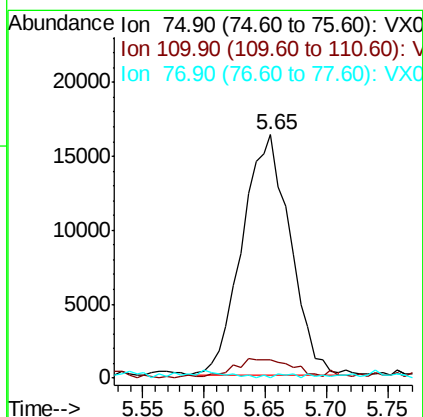
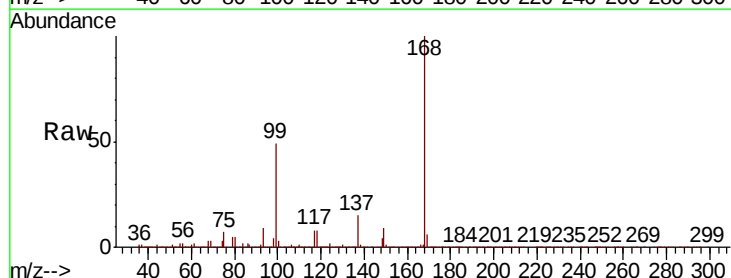
Instrument :
 MSVOA_X
 ClientSampleId :
 08BR-20191120DL

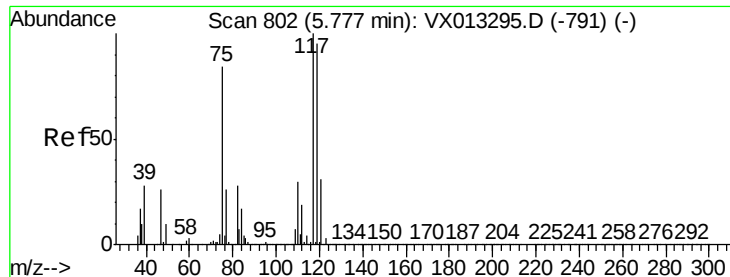
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	23.3	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.938 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013554.D
 Acq: 23 Nov 2019 00:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.1	54.1#
77	0.8	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.183 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

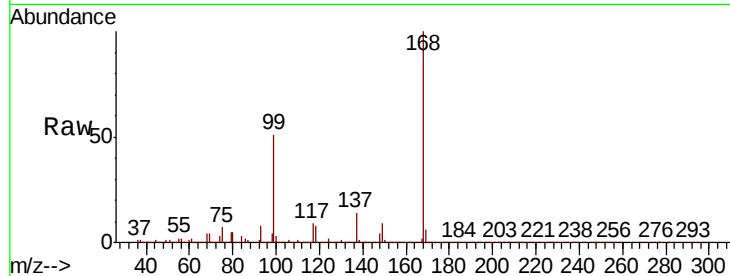
Tot Ion:117 Resp: 54439

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

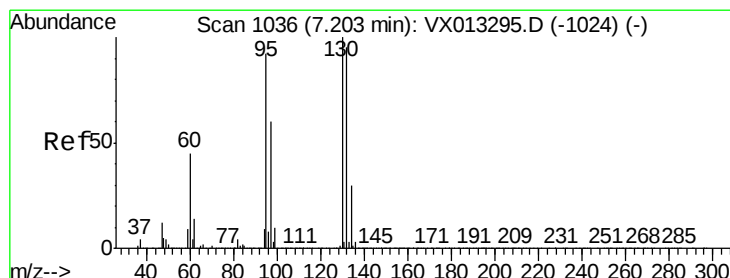
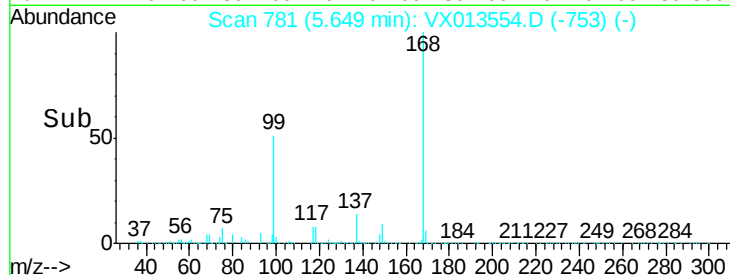
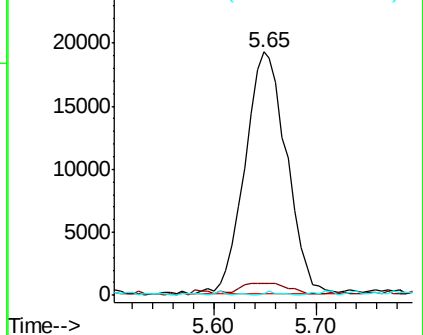
121 0.9 24.6 37.0#



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



#44

Trichloroethene

Concen: 33.850 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013554.D

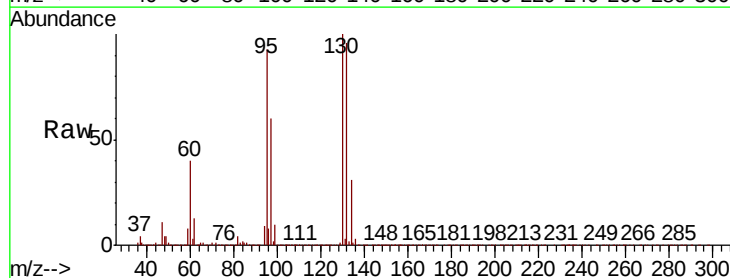
Acq: 23 Nov 2019 00:06

Tgt Ion:130 Resp: 261316

Ion Ratio Lower Upper

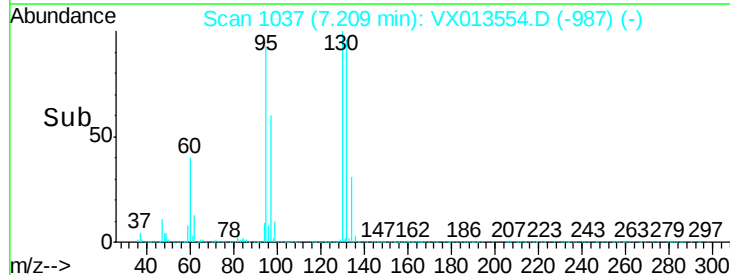
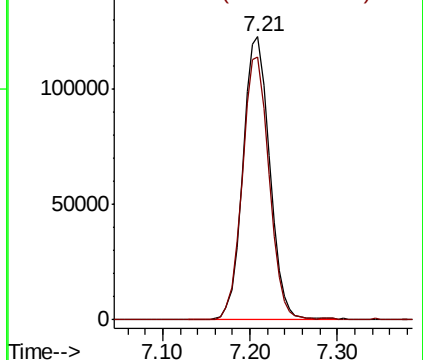
130 100

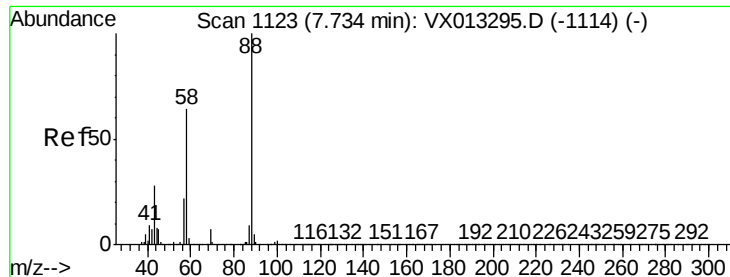
95 92.7 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.333 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

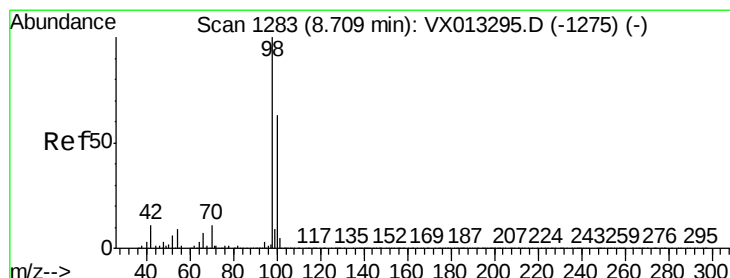
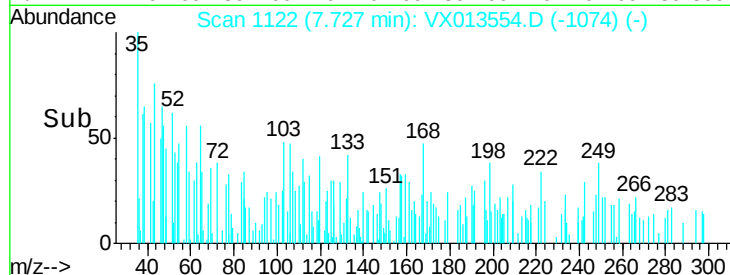
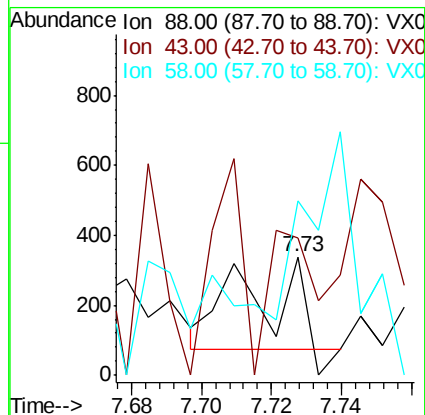
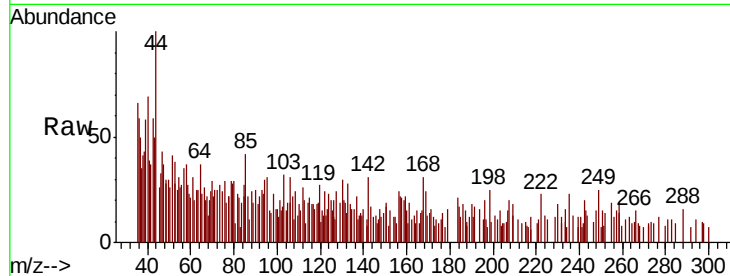
Tot Ion: 88 Resp: 264

Ion Ratio Lower Upper

88 100

43 141.3 26.6 39.8#

58 287.1 55.0 82.6#



#50

Toluene-d8

Concen: 50.376 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013554.D

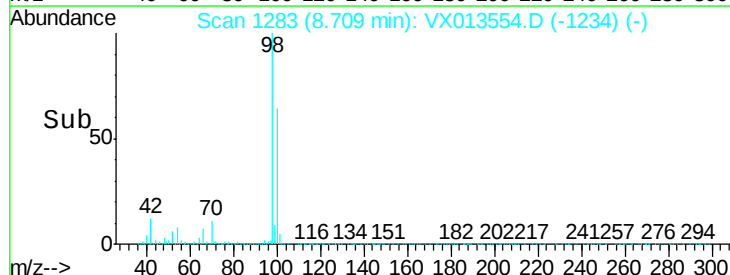
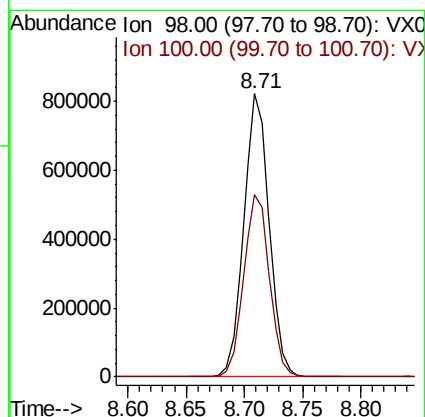
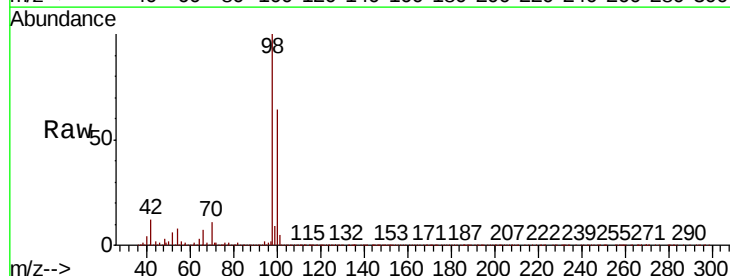
Acq: 23 Nov 2019 00:06

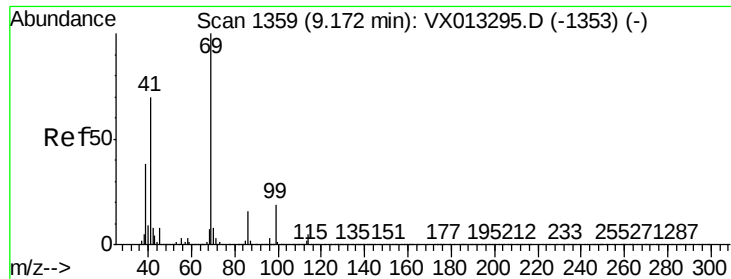
Tgt Ion: 98 Resp: 1250118

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2





#56

Ethyl methacrylate

Concen: 1.592 ug/l

RT: 9.16 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleID :

08BR-20191120DL

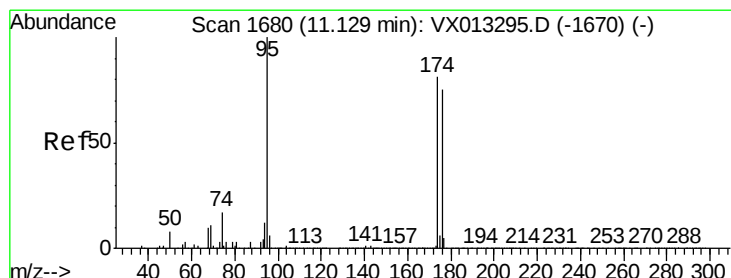
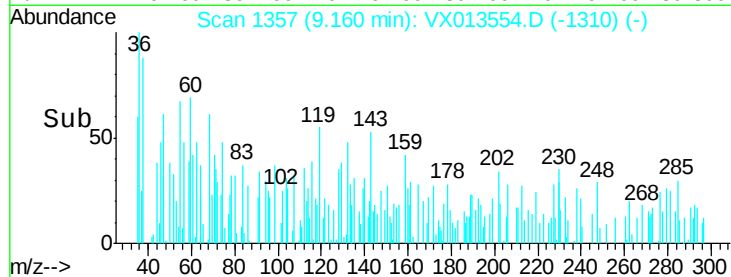
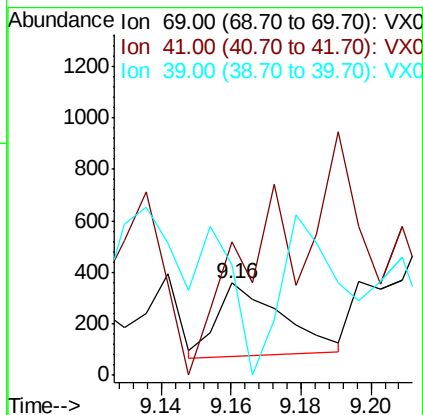
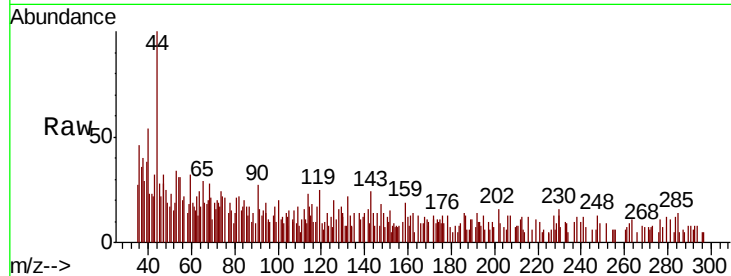
Tot Ion: 69 Resp: 367

Ion Ratio Lower Upper

69 100

41 221.8 56.2 84.2#

39 200.0 31.1 46.7#



#62

4-Bromofluorobenzene

Concen: 46.715 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

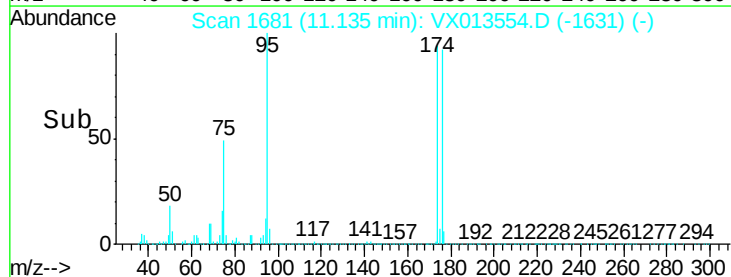
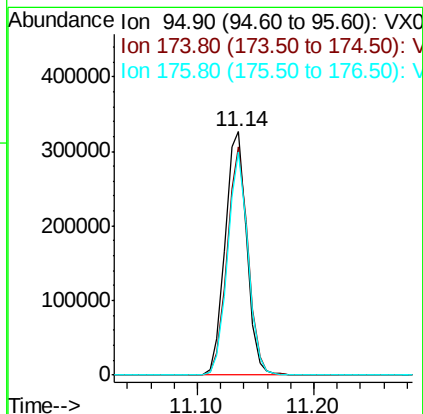
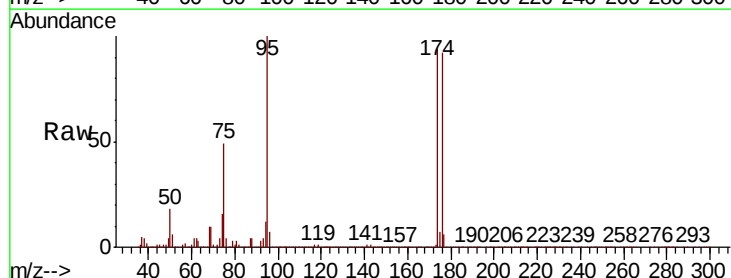
Tgt Ion: 95 Resp: 418387

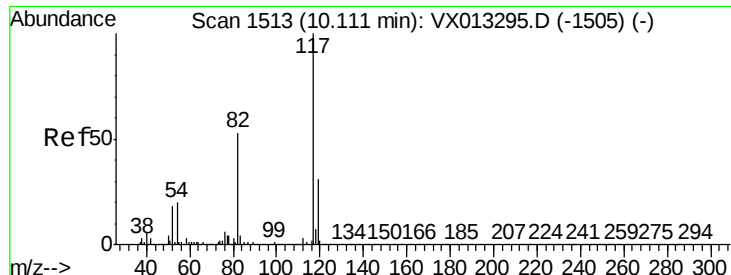
Ion Ratio Lower Upper

95 100

174 90.8 0.0 179.8

176 87.1 0.0 173.0

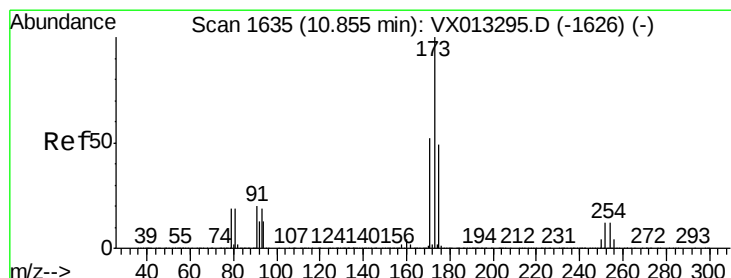
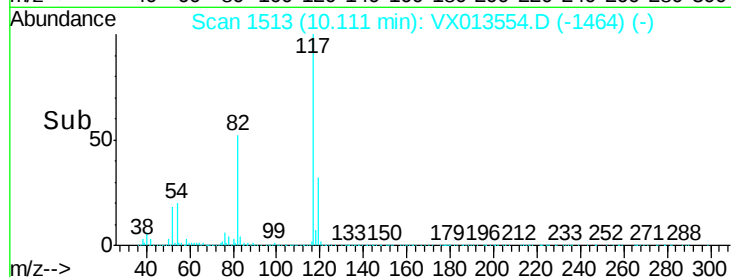
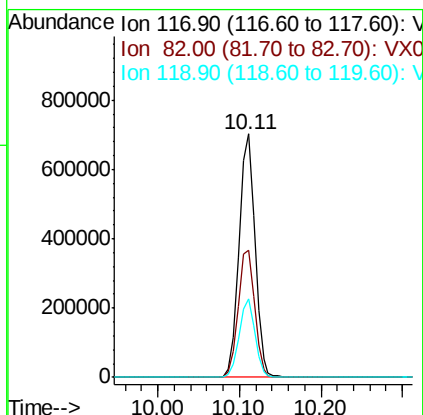
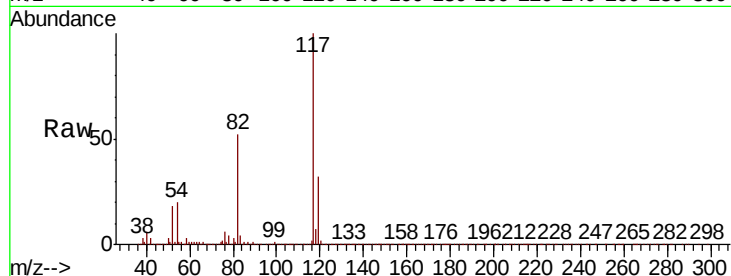




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013554.D
Acq: 23 Nov 2019 00:06

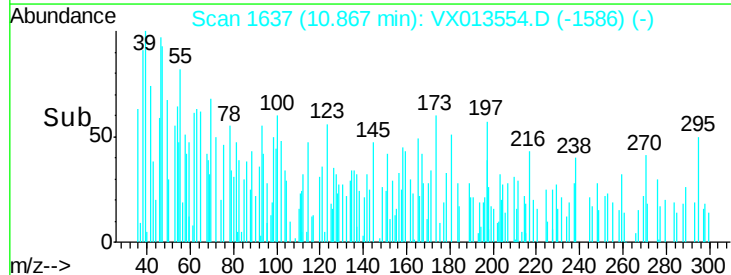
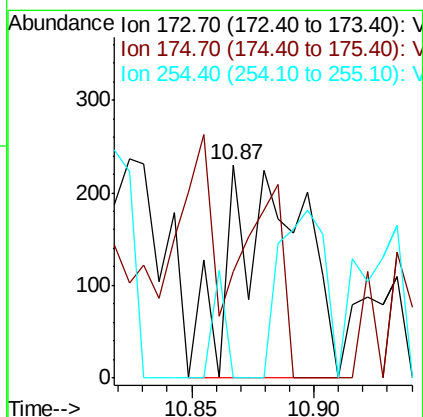
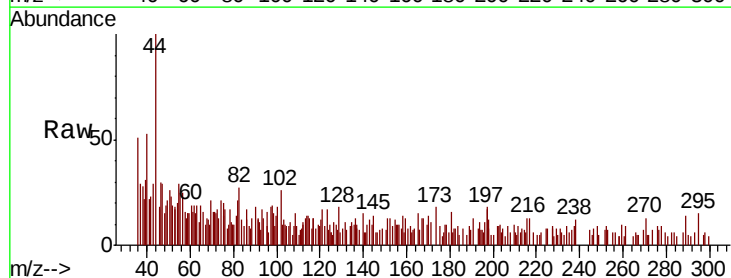
Instrument :
MSVOA_X
ClientSampleId :
08BR-20191120DL

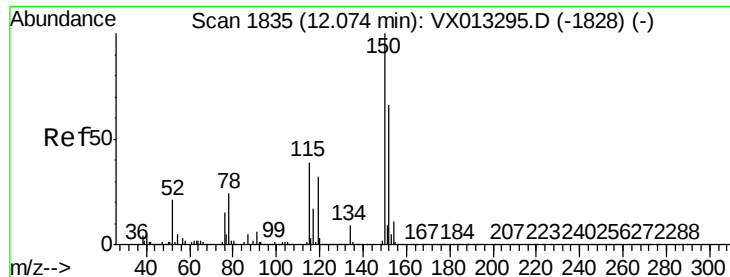
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.6	64.0
119	32.3	24.8	37.2



#71
Bromoform
Concen: 3.272 ug/l
RT: 10.87 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VX013554.D
Acq: 23 Nov 2019 00:06

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.8	74.4#
254	9.0	0.2	0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

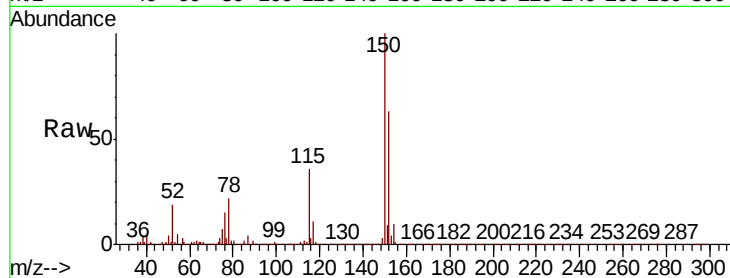
Tot Ion:152 Resp: 427953

Ion Ratio Lower Upper

152 100

115 56.3 39.5 118.3

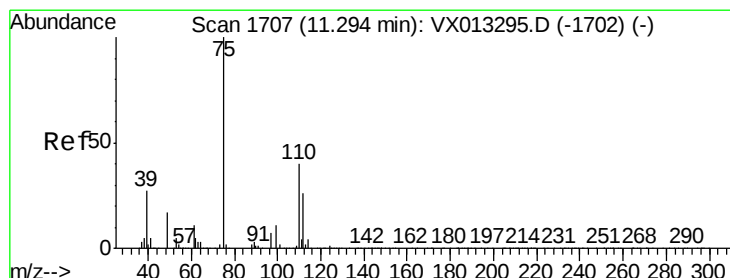
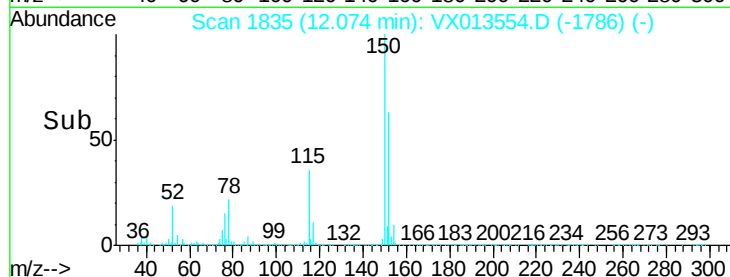
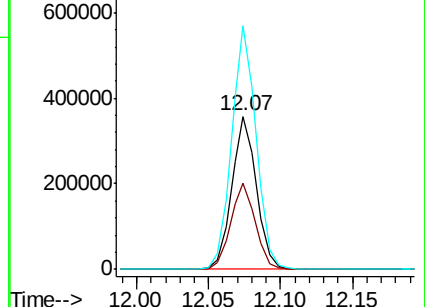
150 158.8 0.0 344.4



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: 23.803 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013554.D

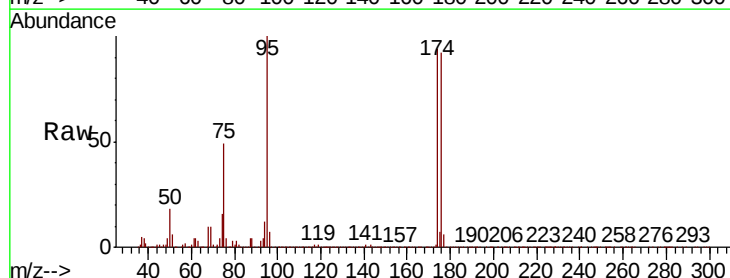
Acq: 23 Nov 2019 00:06

Tgt Ion: 75 Resp: 206906

Ion Ratio Lower Upper

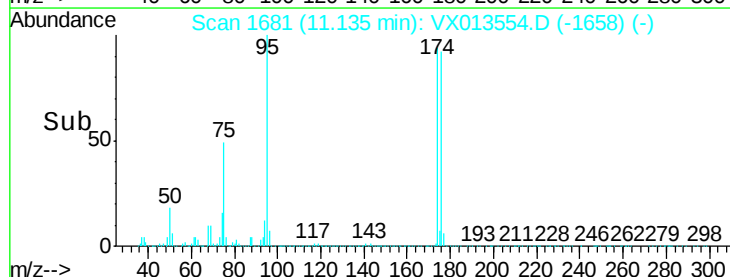
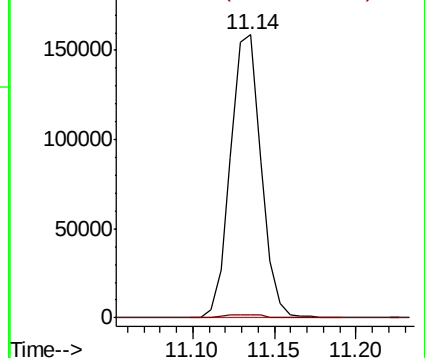
75 100

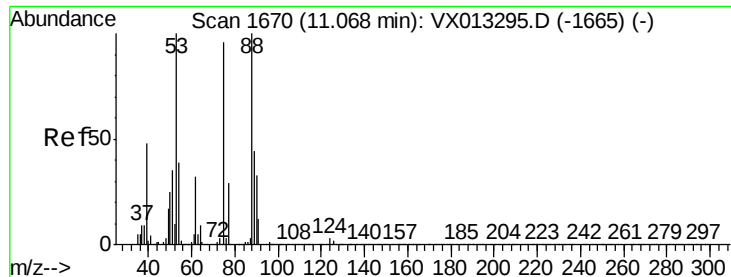
77 1.6 22.3 66.8#



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: 61.269 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013554.D

Acq: 23 Nov 2019 00:06

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120DL

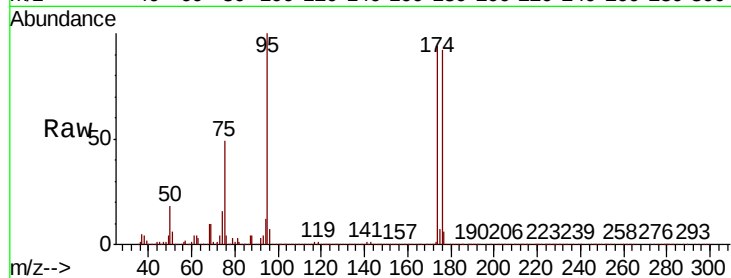
Tot Ion: 75 Resp: 206906

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

