

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013509.D
 Acq On : 21 Nov 2019 17:33
 Operator : JC/SP
 Sample : K5962-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 08BR-20191120

Quant Time: Nov 22 01:10:48 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	690974	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1116090	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	985966	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	437283	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	408648	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	
35) Dibromofluoromethane	5.49	113	333395	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
50) Toluene-d8	8.71	98	1331009	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	11.14	95	436683	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	

Target Compounds

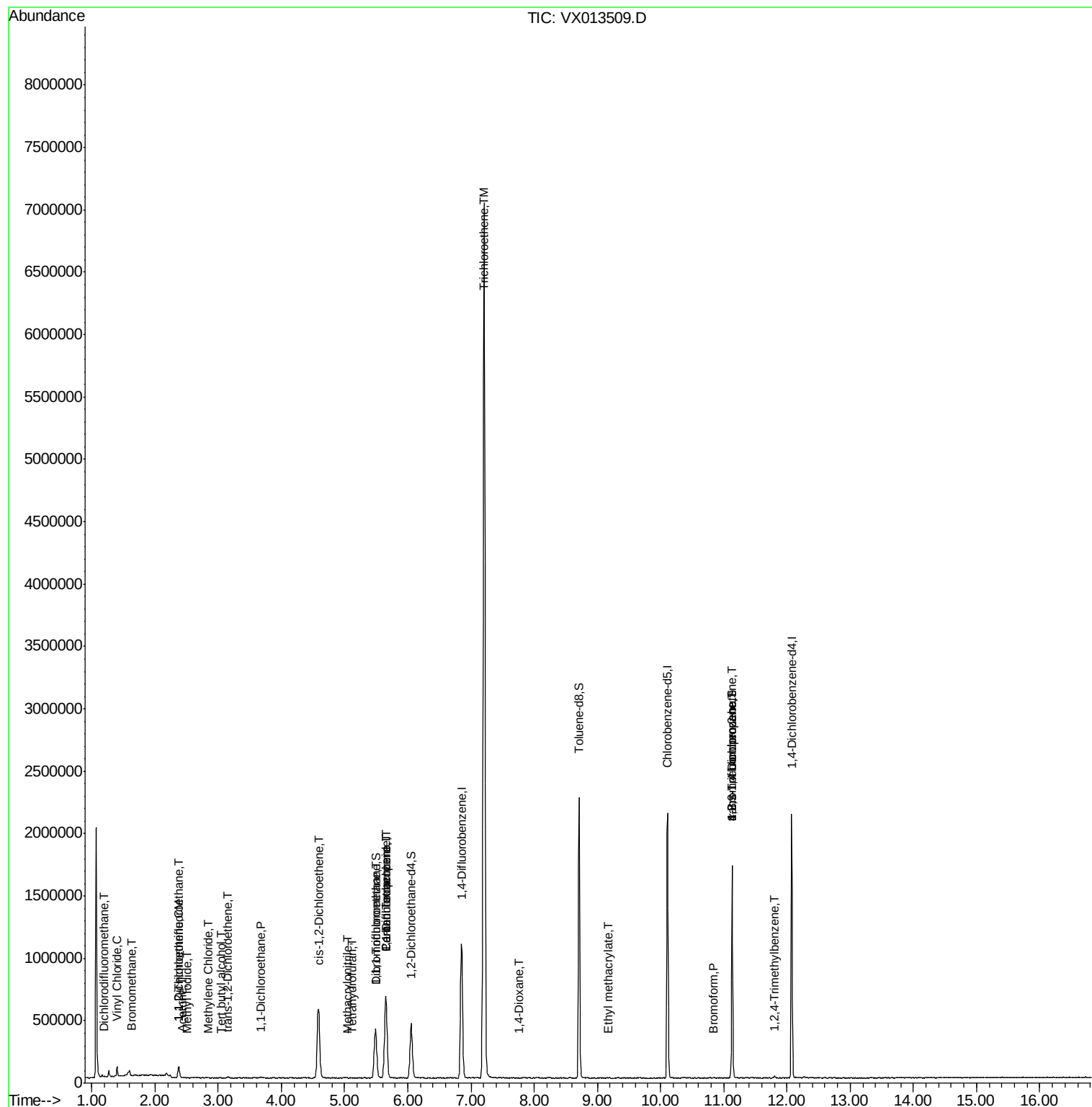
						Qvalue
2) Dichlorodifluoromethane	1.19	85	2790	0.350	ug/l	97
4) Vinyl Chloride	1.40	62	50628	5.151	ug/l	94
5) Bromomethane	1.64	94	1717	0.251	ug/l #	26
6) Chloroethane	1.66	64	742	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.37	101	38602	5.964	ug/l	93
10) Methyl Iodide	2.50	142	1855	0.231	ug/l #	75
11) Tert butyl alcohol	3.05	59	532	0.247	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	5779	0.912	ug/l	86
16) Acetone	2.43	43	8746	2.142	ug/l #	76
20) Methylene Chloride	2.84	84	1515	0.201	ug/l #	78
21) trans-1,2-Dichloroethene	3.16	96	5265	0.763	ug/l	85
24) 1,1-Dichloroethane	3.69	63	9707	0.780	ug/l #	90
27) cis-1,2-Dichloroethene	4.58	96	373650	48.333	ug/l	89
29) Tetrahydrofuran	5.12	42	974	0.264	ug/l #	39
32) 1,1,1-Trichloroethane	5.48	97	3932	0.372	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	46042	4.809	ug/l #	52
38) Carbon Tetrachloride	5.65	117	59262	6.329	ug/l #	17
41) Methacrylonitrile	5.04	41	1555	0.234	ug/l #	31
44) Trichloroethene	7.21	130	2815025	342.889	ug/l	99
49) 1,4-Dioxane	7.75	88	354	1.681	ug/l #	1
56) Ethyl methacrylate	9.18	69	397	1.592	ug/l #	19
71) Bromoform	10.83	173	181	3.227	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	217154	24.449	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	217154	62.932	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	11187	0.462	ug/l	94

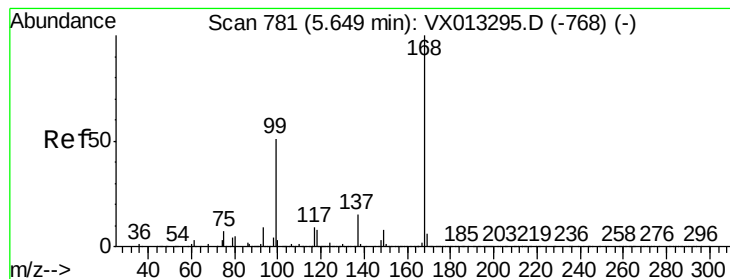
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

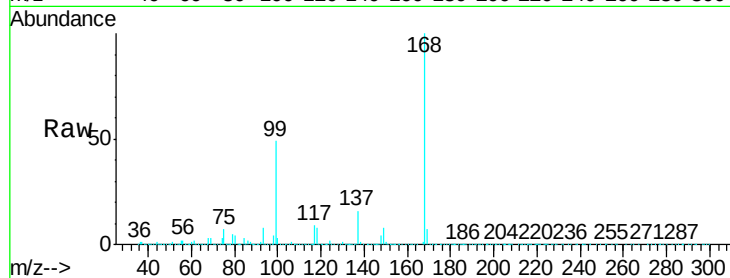
08BR-20191120

Tgt Ion:168 Resp: 690974

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

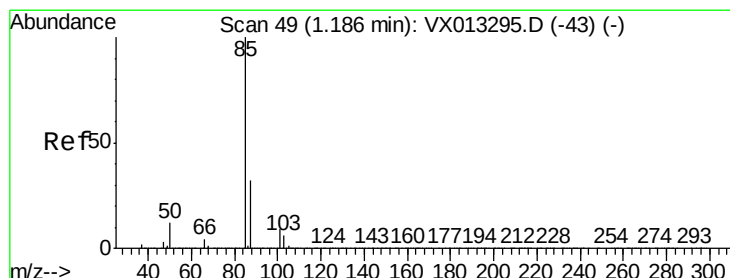
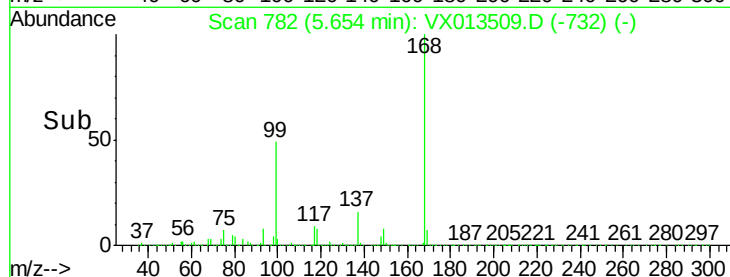
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.350 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013509.D

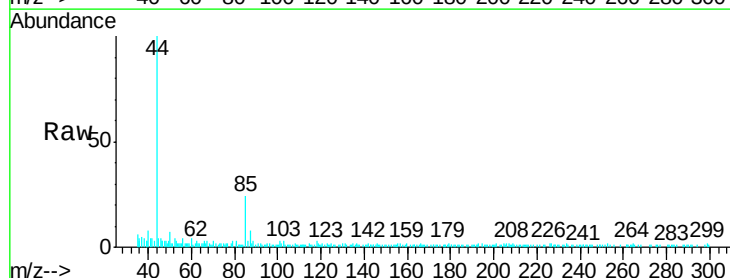
Acq: 21 Nov 2019 17:33

Tgt Ion: 85 Resp: 2790

Ion Ratio Lower Upper

85 100

87 29.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

2500

2000

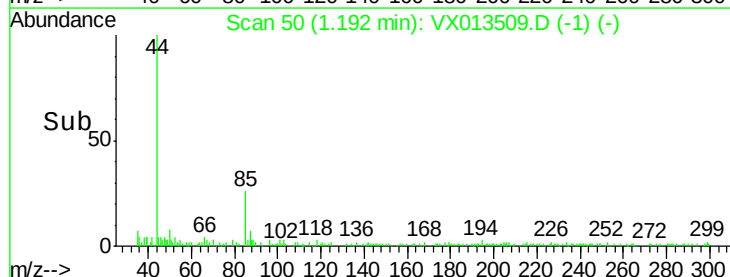
1500

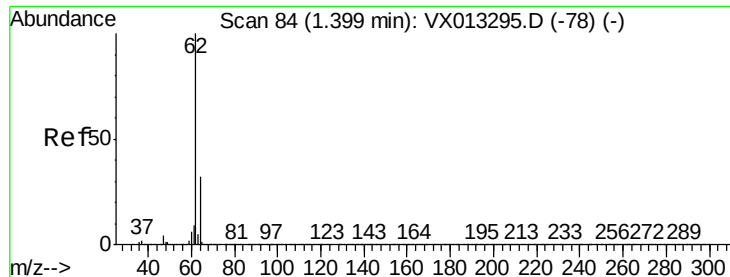
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 5.151 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

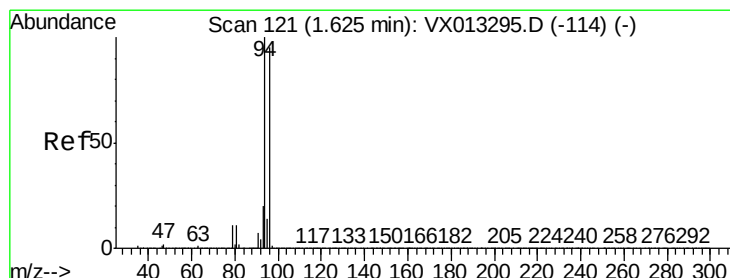
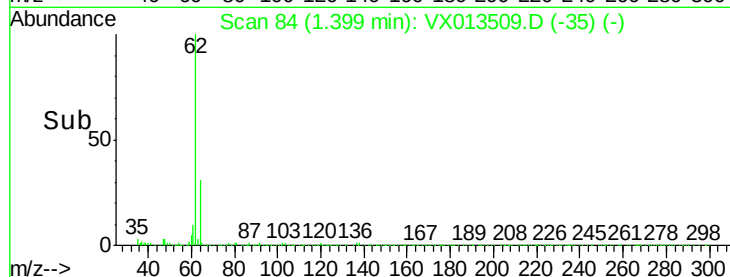
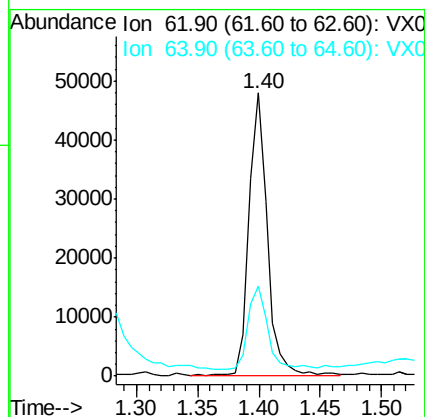
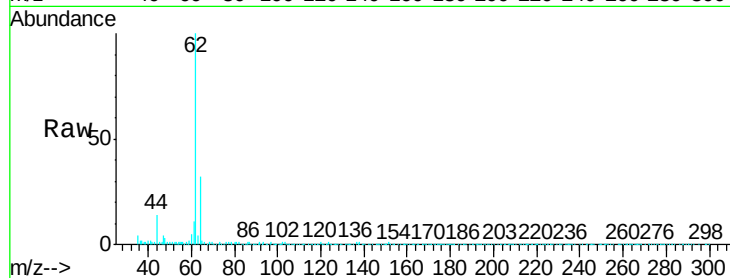
08BR-20191120

Tgt Ion: 62 Resp: 50628

Ion Ratio Lower Upper

62 100

64 28.8 25.6 38.4



#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013509.D

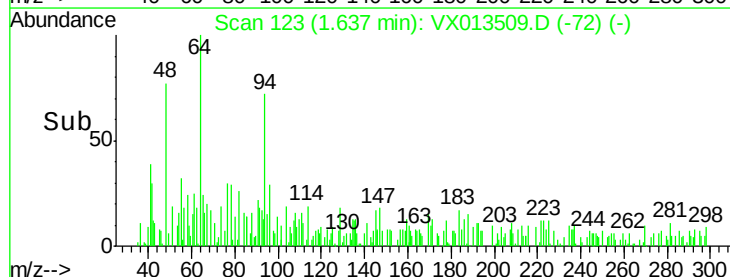
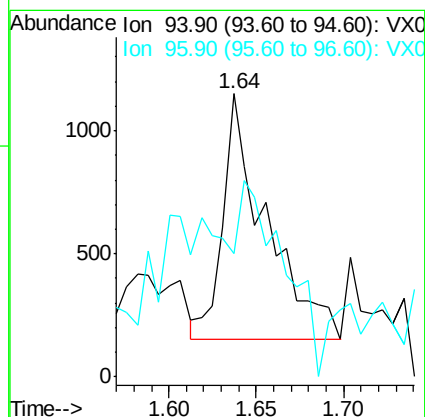
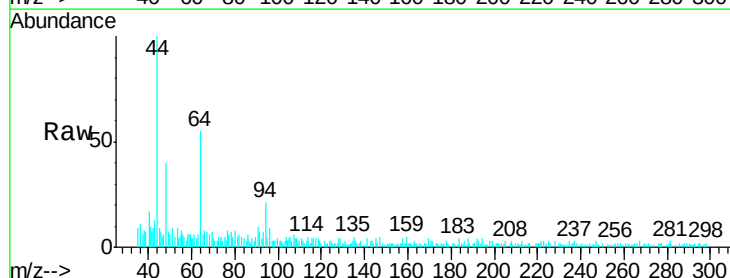
Acq: 21 Nov 2019 17:33

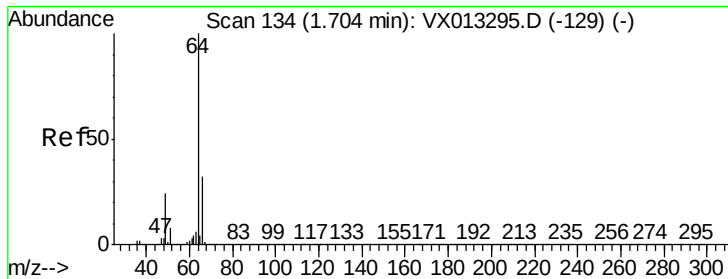
Tgt Ion: 94 Resp: 1717

Ion Ratio Lower Upper

94 100

96 22.9 75.8 113.8#





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 126

Delta R.T. -0.05 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

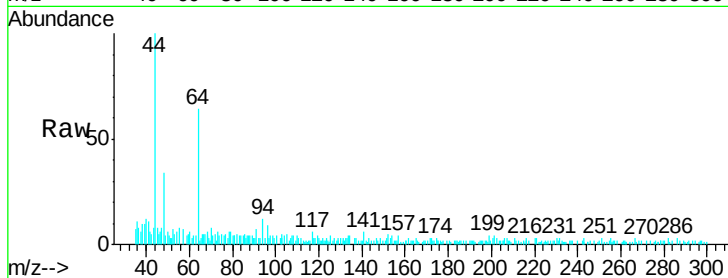
08BR-20191120

Tgt Ion: 64 Resp: 742

Ion Ratio Lower Upper

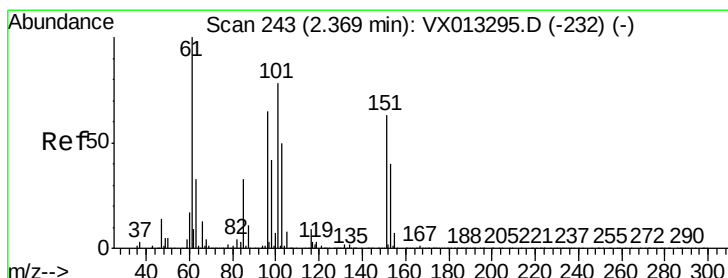
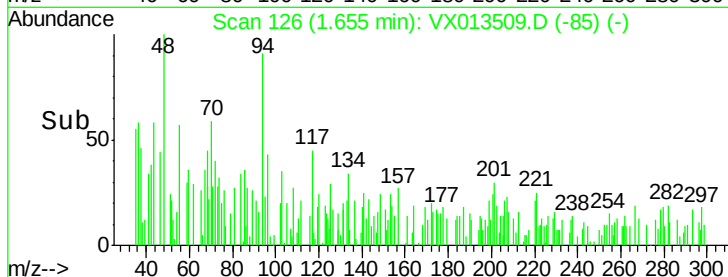
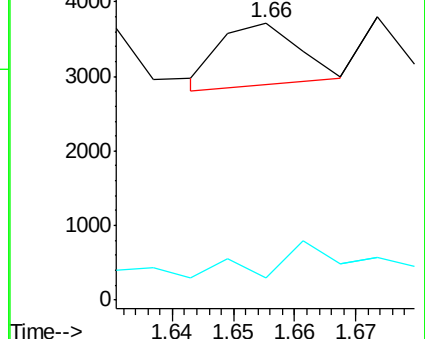
64 100

66 1.2 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.964 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

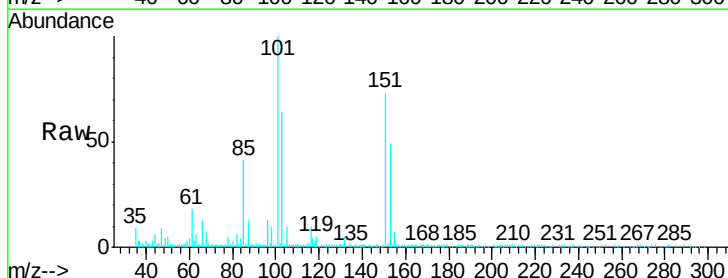
Tgt Ion: 101 Resp: 38602

Ion Ratio Lower Upper

101 100

85 38.9 34.4 51.6

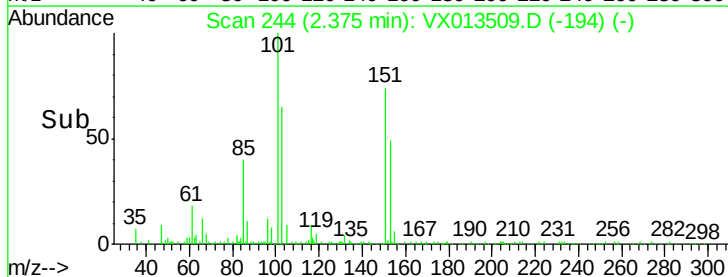
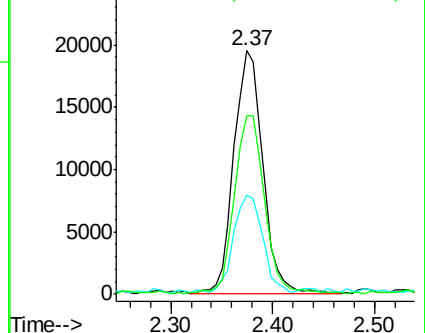
151 76.2 66.4 99.6

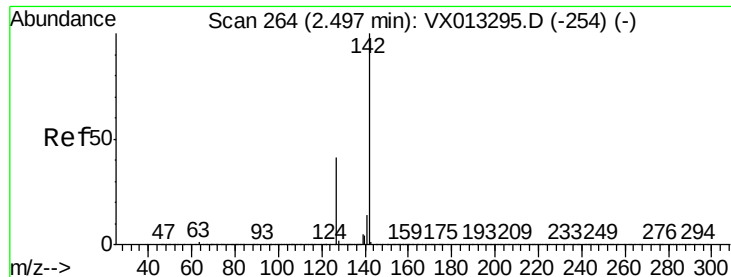


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





#10

Methyl Iodide

Concen: 0.231 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120

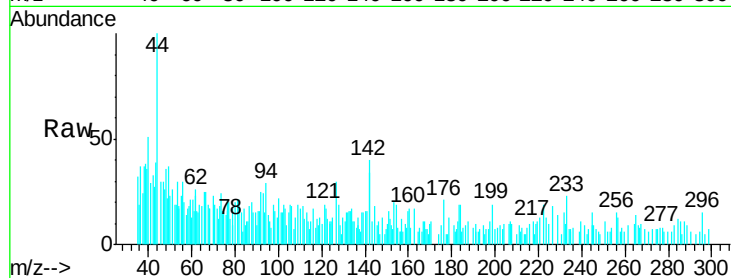
Tgt Ion: 142 Resp: 1855

Ion Ratio Lower Upper

142 100

127 29.1 32.6 49.0#

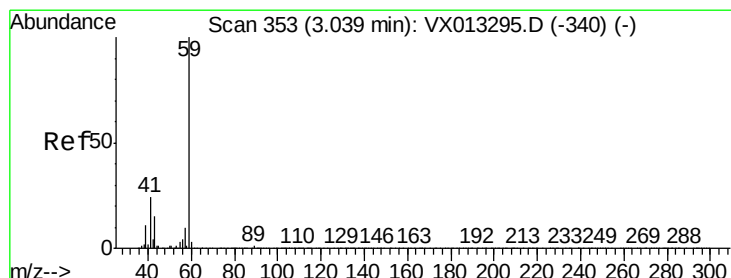
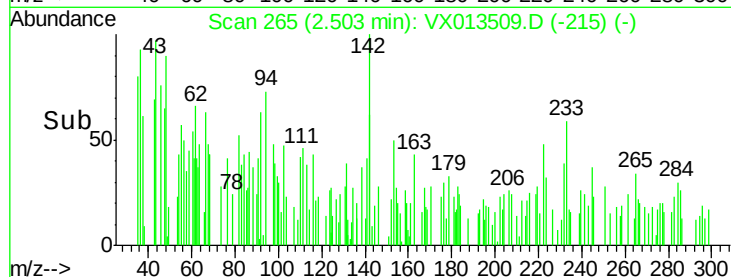
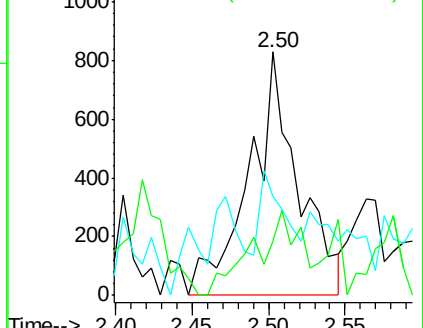
141 32.8 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.247 ug/l

RT: 3.05 min Scan# 355

Delta R.T. 0.01 min

Lab File: VX013509.D

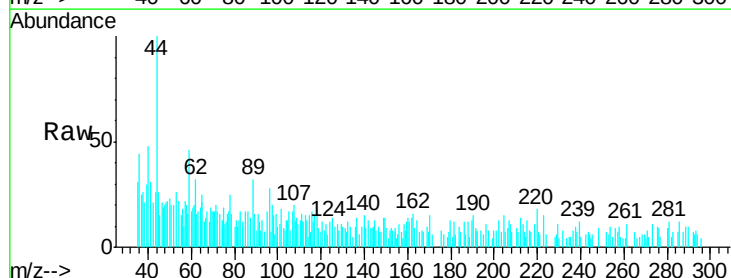
Acq: 21 Nov 2019 17:33

Tgt Ion: 59 Resp: 532

Ion Ratio Lower Upper

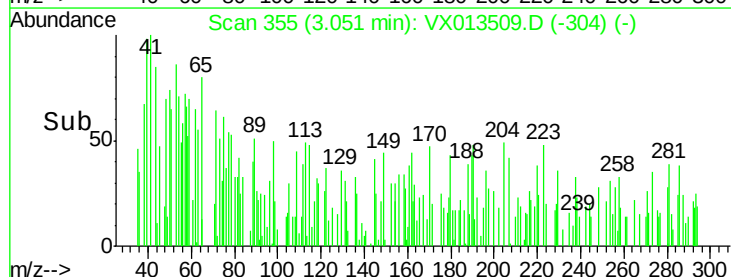
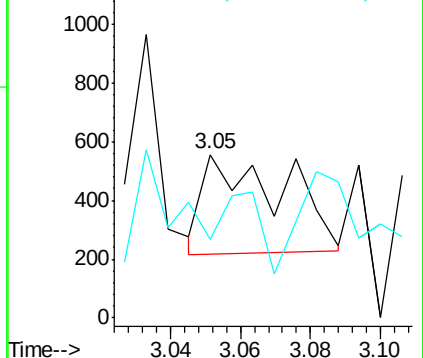
59 100

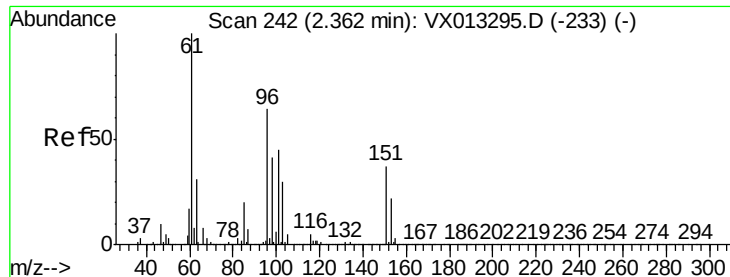
57 118.8 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

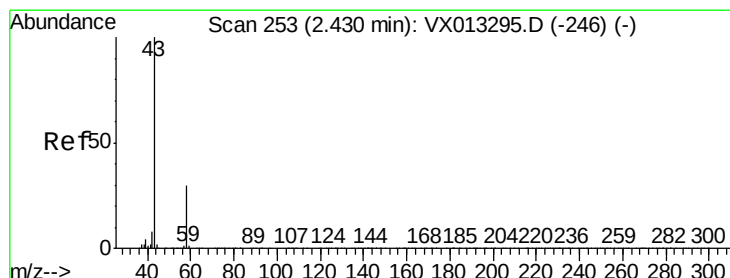
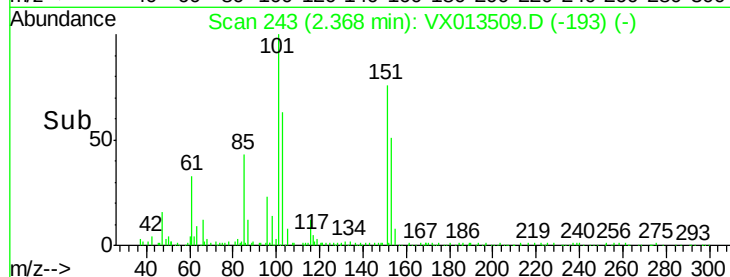
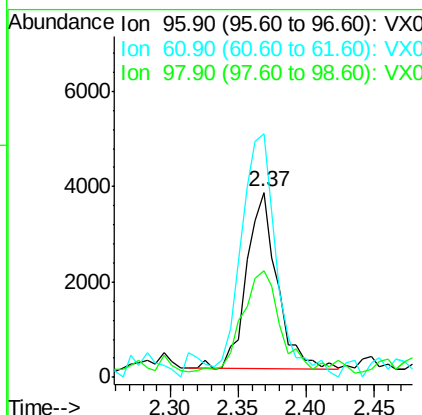
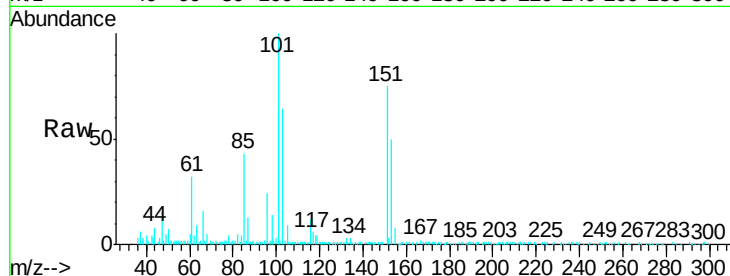




#12
1,1-Dichloroethene
Concen: 0.912 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013509.D
Acq: 21 Nov 2019 17:33

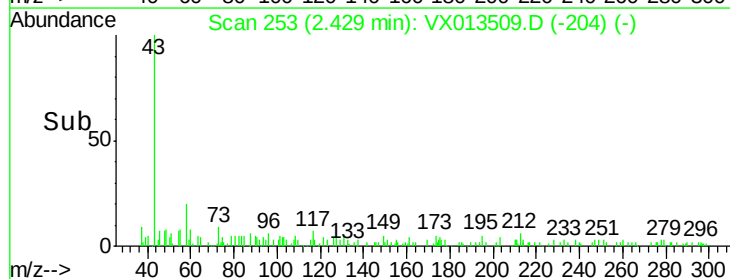
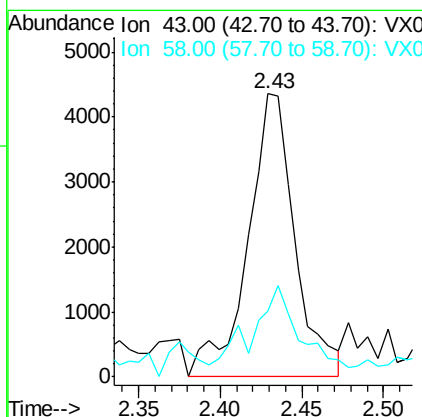
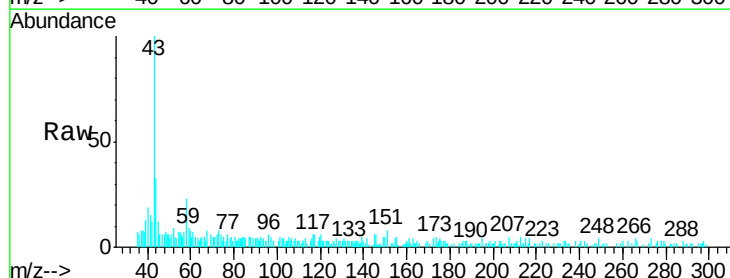
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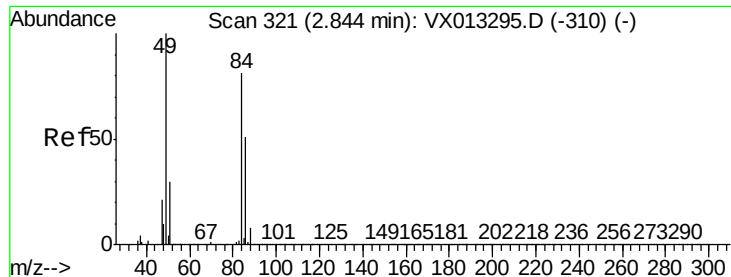
Tgt Ion: 96 Resp: 5779
Ion Ratio Lower Upper
96 100
61 139.0 125.0 187.6
98 51.7 50.7 76.1



#16
Acetone
Concen: 2.142 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013509.D
Acq: 21 Nov 2019 17:33

Tgt Ion: 43 Resp: 8746
Ion Ratio Lower Upper
43 100
58 17.6 24.3 36.5#





#20

Methylene Chloride

Concen: 0.201 ug/l

RT: 2.84 min Scan# 321

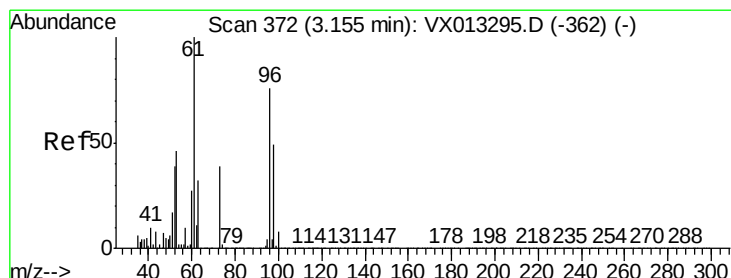
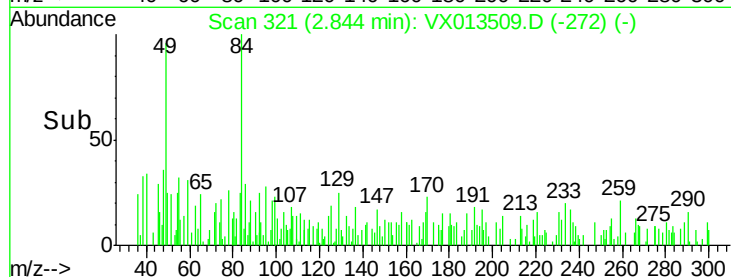
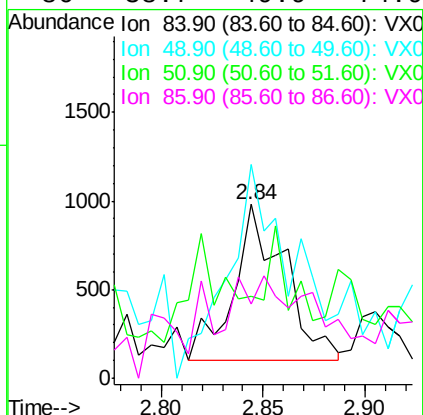
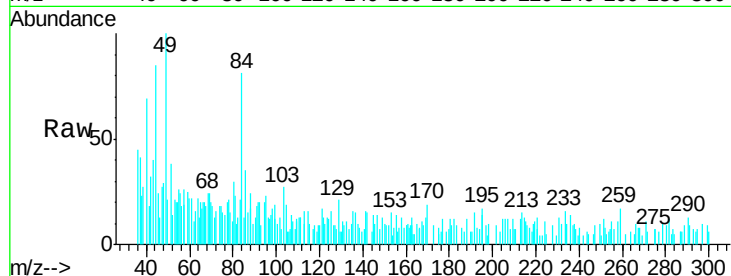
Delta R.T. -0.00 min

Lab File: VX013509.D

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Tgt Ion:	84	Resp:	1515
Ion	Ratio	Lower	Upper
84	100		
49	115.5	98.2	147.4
51	2.6	29.9	44.9#
86	38.7	49.9	74.9#



#21

trans-1,2-Dichloroethene

Concen: 0.763 ug/l

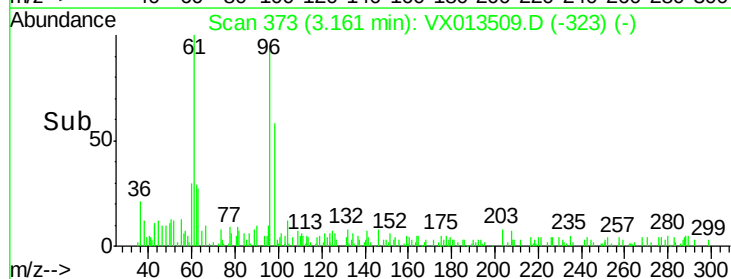
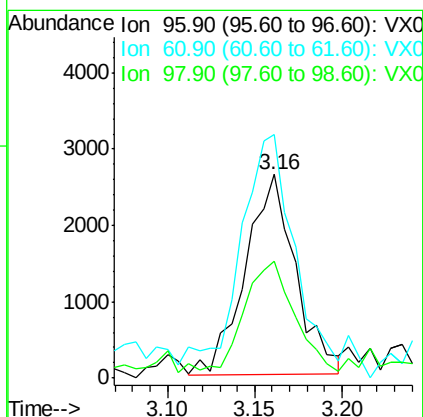
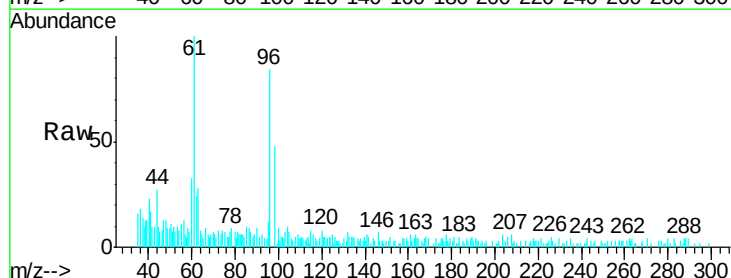
RT: 3.16 min Scan# 373

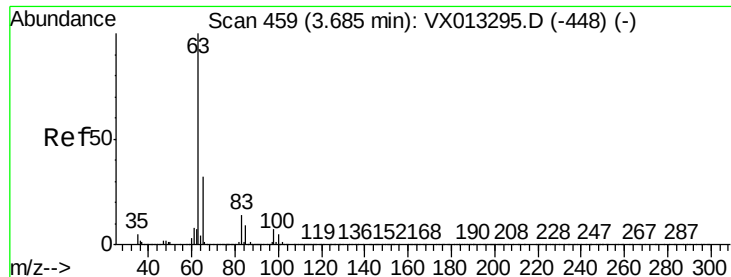
Delta R.T. 0.01 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Tgt Ion:	96	Resp:	5265
Ion	Ratio	Lower	Upper
96	100		
61	113.1	105.8	158.6
98	55.0	51.8	77.6





#24

1,1-Dichloroethane

Concen: 0.780 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

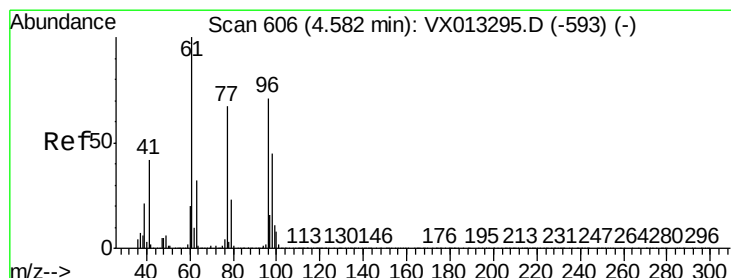
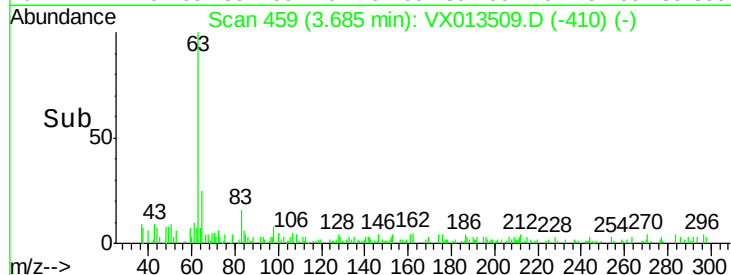
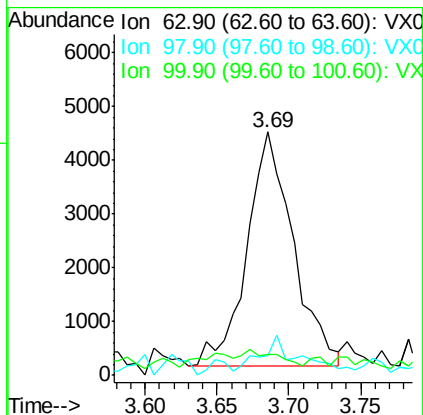
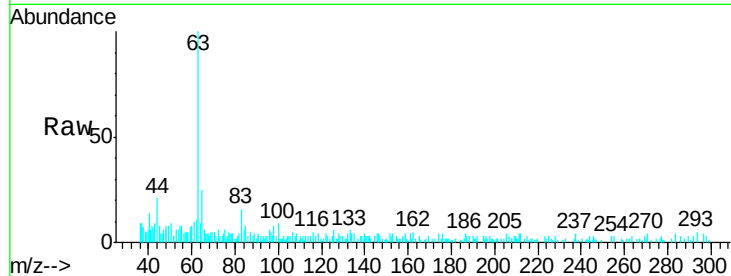
Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120

Tgt Ion:	63	Resp:	9707
Ion	Ratio	Lower	Upper
63	100		
98	2.9	3.5	10.4#
100	2.5	2.4	7.2



#27

cis-1,2-Dichloroethene

Concen: 48.333 ug/l

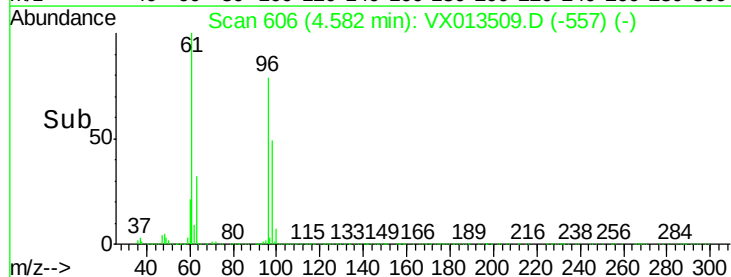
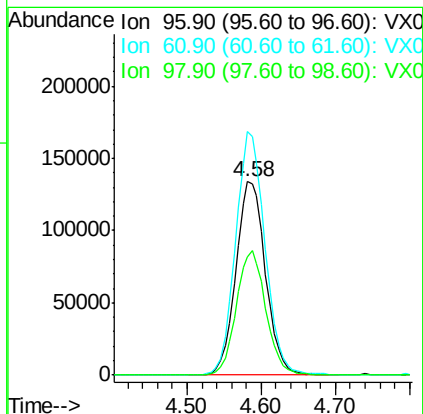
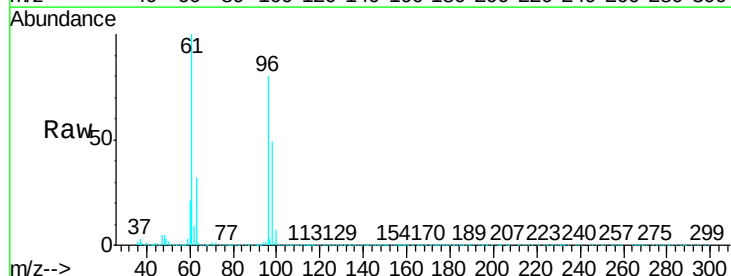
RT: 4.58 min Scan# 606

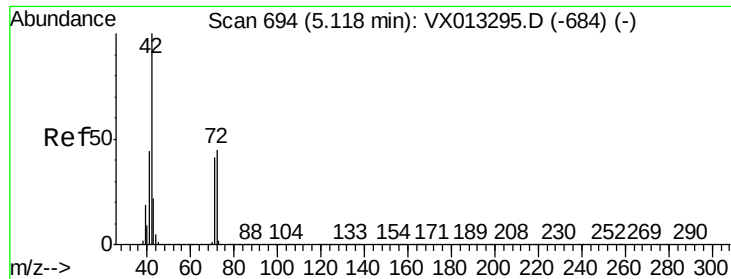
Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Tgt Ion:	96	Resp:	373650
Ion	Ratio	Lower	Upper
96	100		
61	124.3	0.0	288.0
98	63.7	0.0	129.6





#29

Tetrahydrofuran

Concen: 0.264 ug/l

RT: 5.12 min Scan# 694

Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120

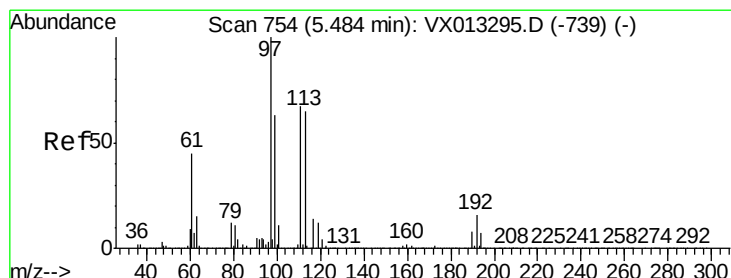
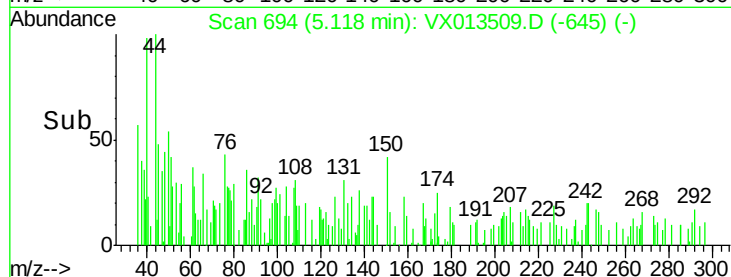
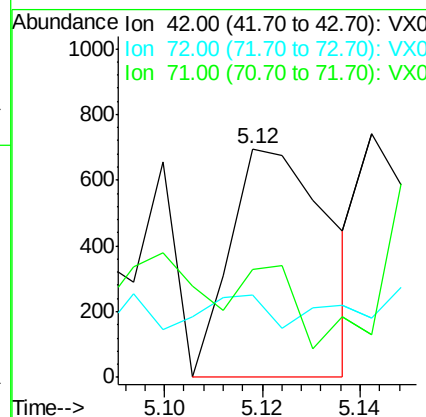
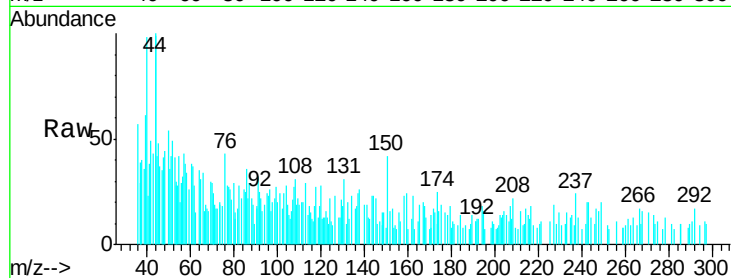
Tgt Ion: 42 Resp: 974

Ion Ratio Lower Upper

42 100

72 8.6 35.8 53.8#

71 0.0 33.4 50.0#



#32

1,1,1-Trichloroethane

Concen: 0.372 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

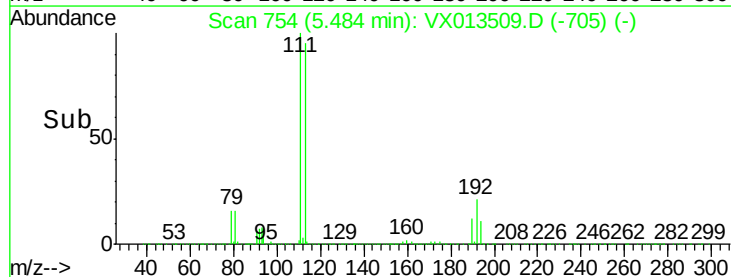
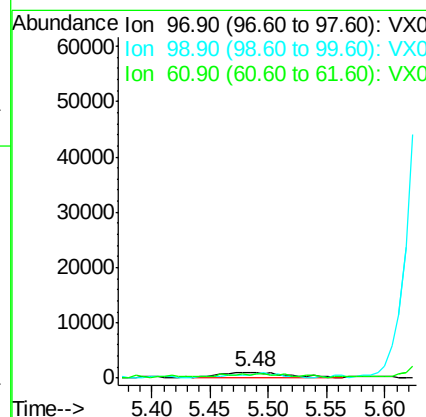
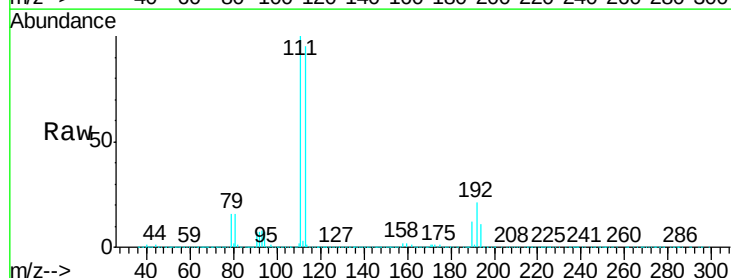
Tgt Ion: 97 Resp: 3932

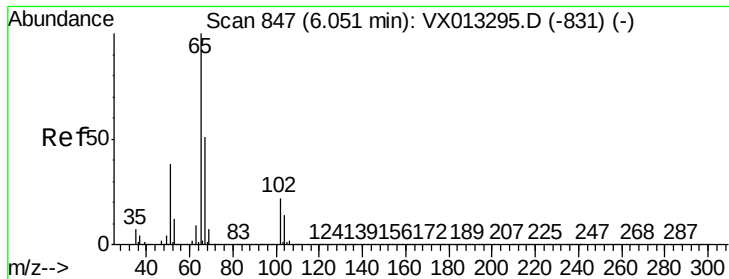
Ion Ratio Lower Upper

97 100

99 0.0 51.1 76.7#

61 39.9 36.5 54.7

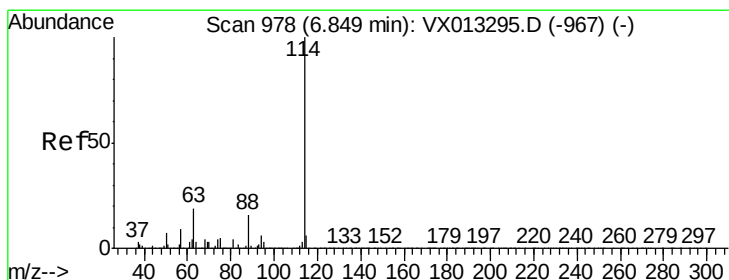
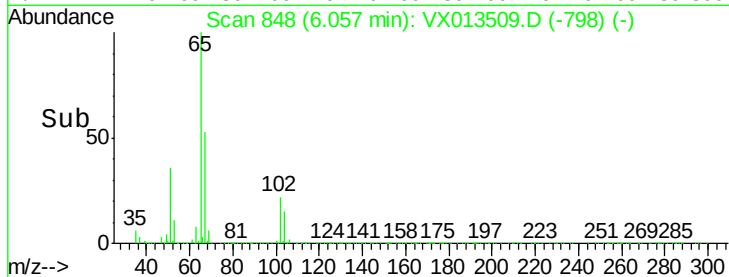
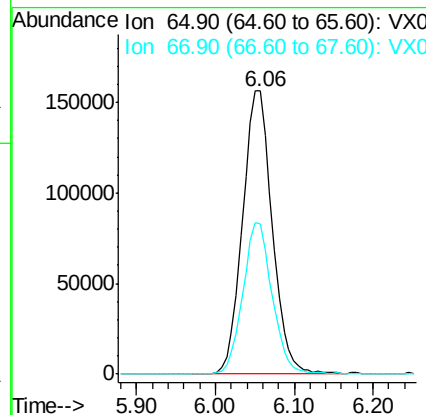
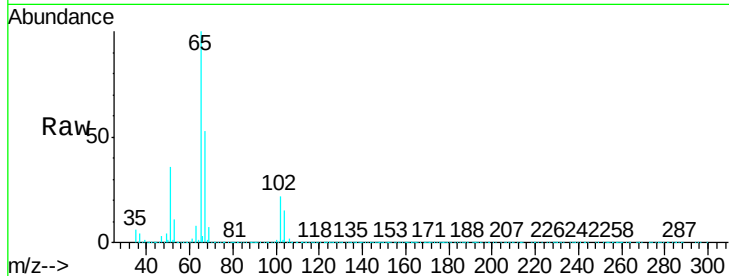




#33
 1,2-Dichloroethane-d4
 Concen: 49.920 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX013509.D
 Acq: 21 Nov 2019 17:33

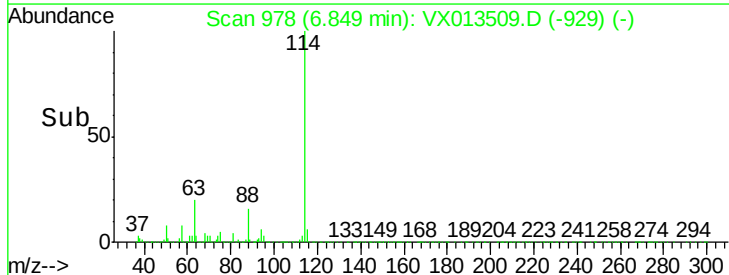
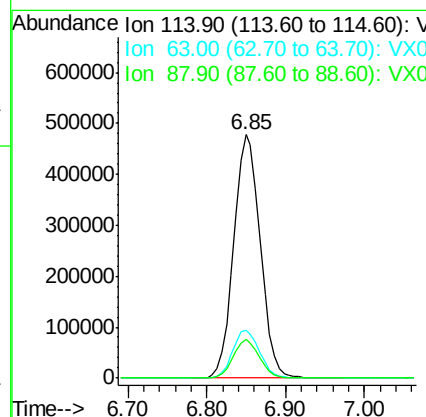
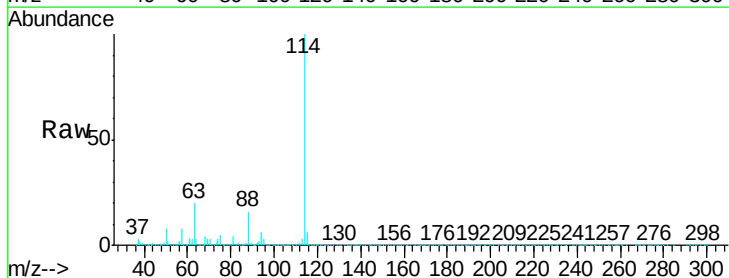
Instrument :
 MSVOA_X
 ClientSampleId :
 08BR-20191120

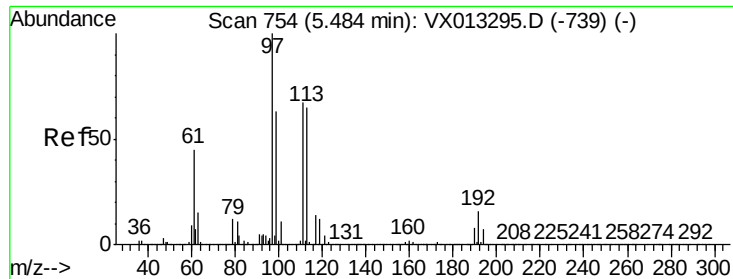
Tgt Ion: 65 Resp: 408648
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013509.D
 Acq: 21 Nov 2019 17:33

Tgt Ion: 114 Resp: 1116090
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.4
 88 15.7 0.0 32.2

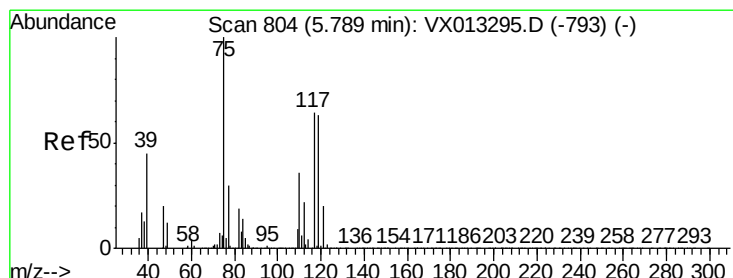
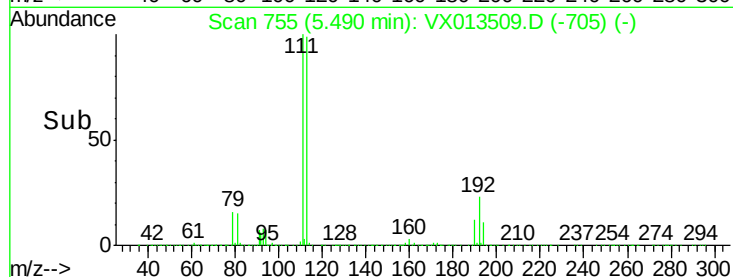
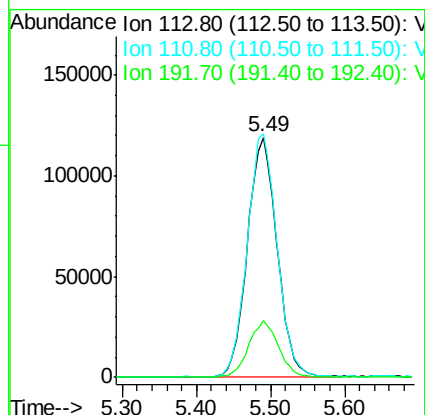
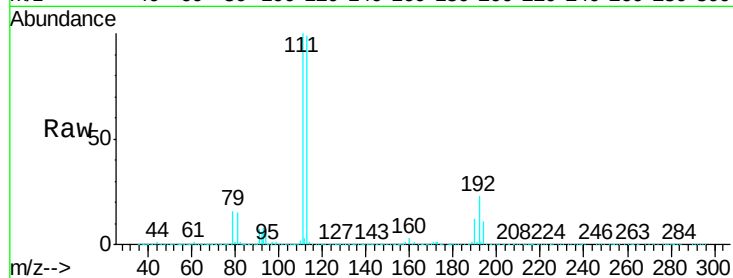




#35
 Dibromofluoromethane
 Concen: 47.626 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: VX013509.D
 Acq: 21 Nov 2019 17:33

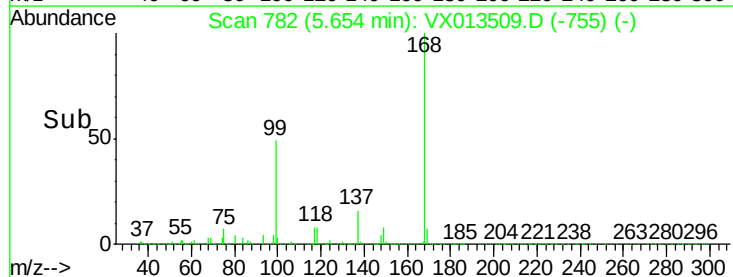
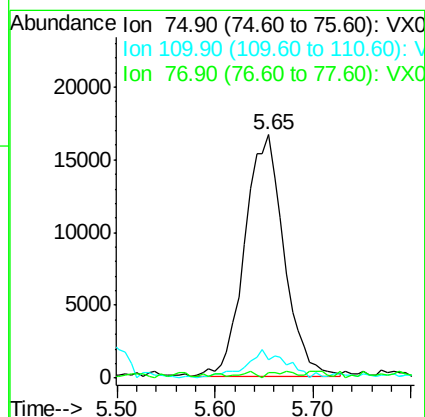
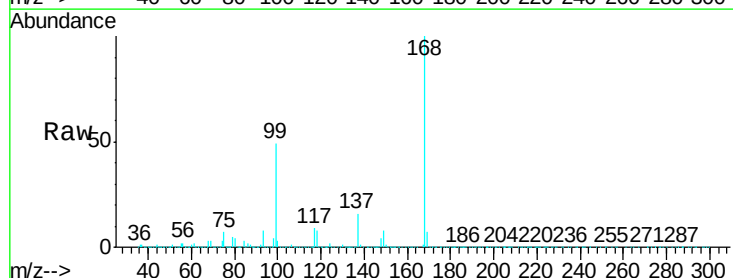
Instrument :
 MSVOA_X
 ClientSampleId :
 08BR-20191120

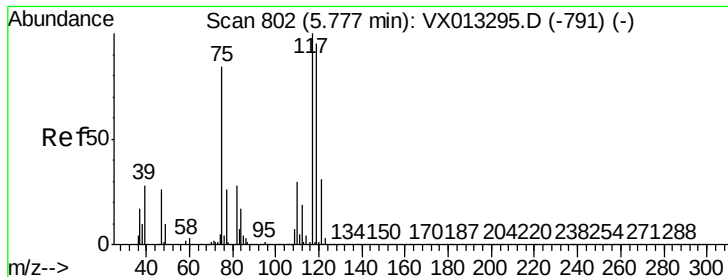
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	23.8	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.809 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013509.D
 Acq: 21 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.5	18.1	54.1#
77	0.9	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.329 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

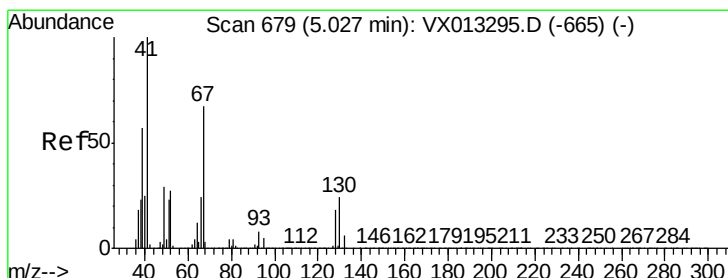
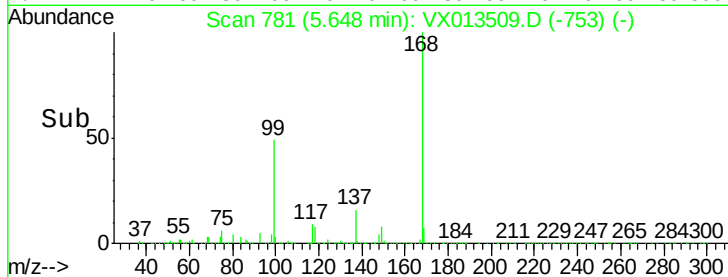
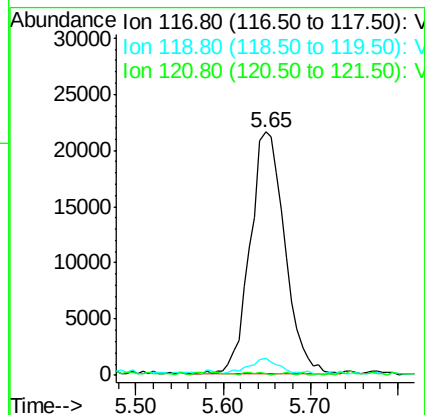
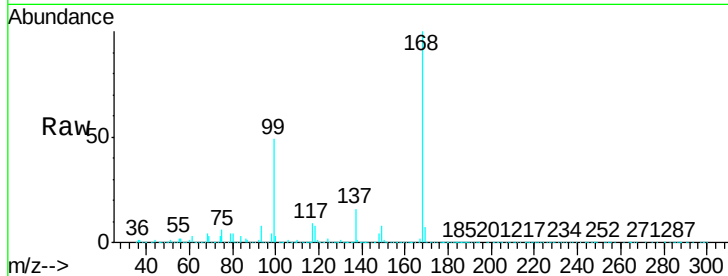
Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120

Tgt Ion:	117	Resp:	59262
Ion Ratio	Lower	Upper	
117	100		
119	5.6	76.1	114.1#
121	0.6	24.6	37.0#



#41

Methacrylonitrile

Concen: 0.234 ug/l

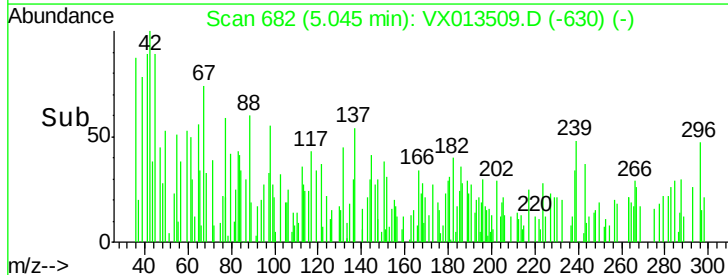
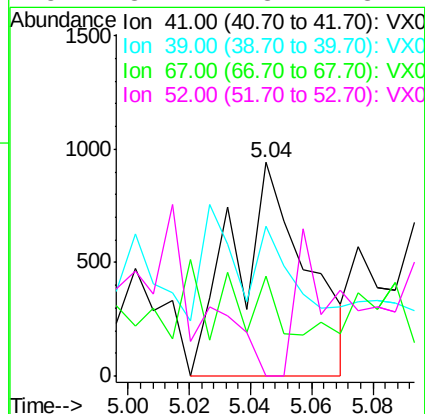
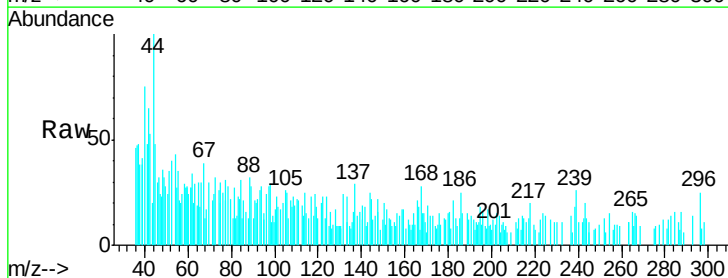
RT: 5.04 min Scan# 682

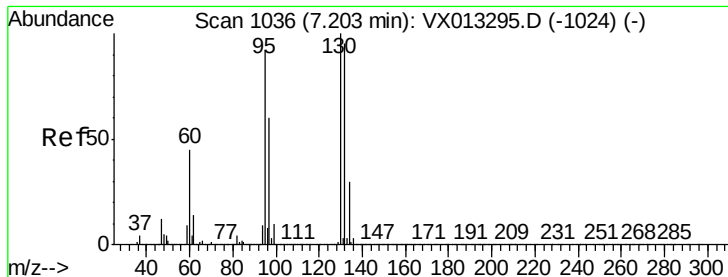
Delta R.T. 0.02 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Tgt Ion:	41	Resp:	1555
Ion Ratio	Lower	Upper	
41	100		
39	0.0	45.0	67.6#
67	0.0	55.4	83.2#
52	37.4	23.1	34.7#





#44

Trichloroethene

Concen: 342.889 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

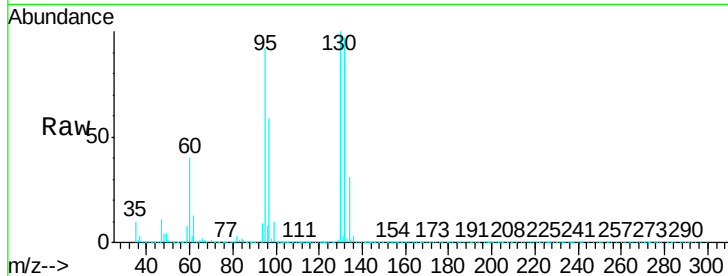
08BR-20191120

Tgt Ion:130 Resp: 2815025

Ion Ratio Lower Upper

130 100

95 91.7 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

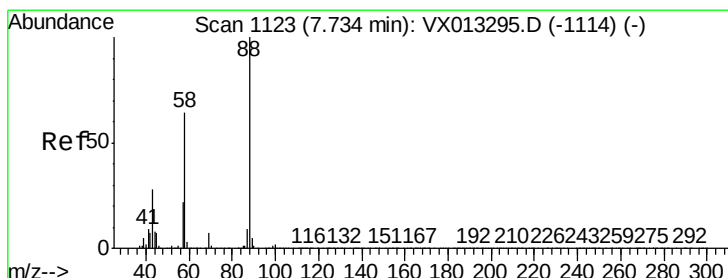
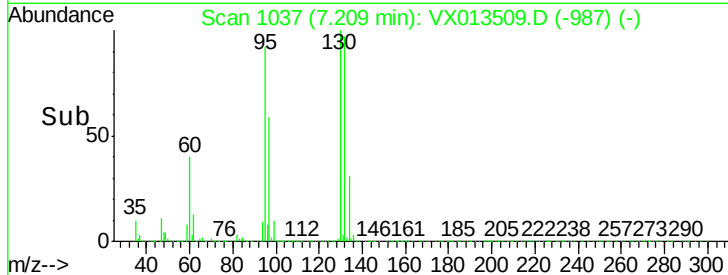
1500000

1000000

500000

0

Time-->



#49

1,4-Dioxane

Concen: 1.681 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

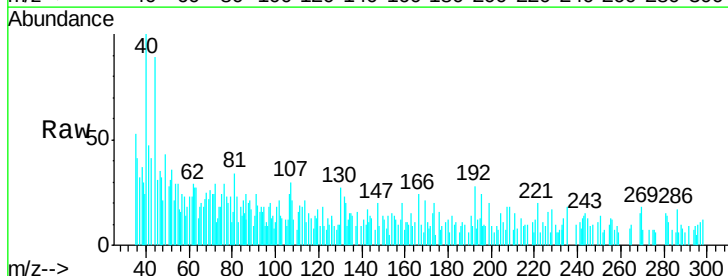
Tgt Ion: 88 Resp: 354

Ion Ratio Lower Upper

88 100

43 99.2 26.6 39.8#

58 296.9 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

1000

800

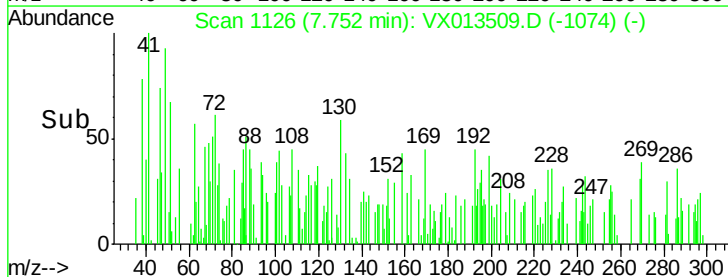
600

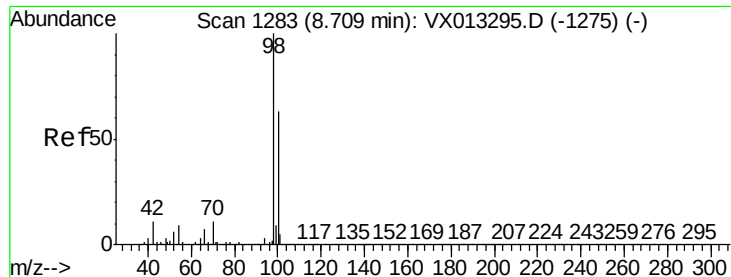
400

200

0

Time-->

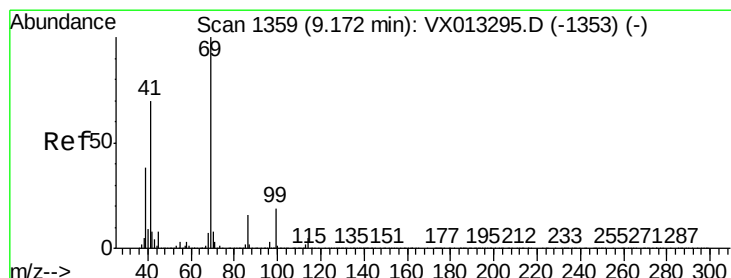
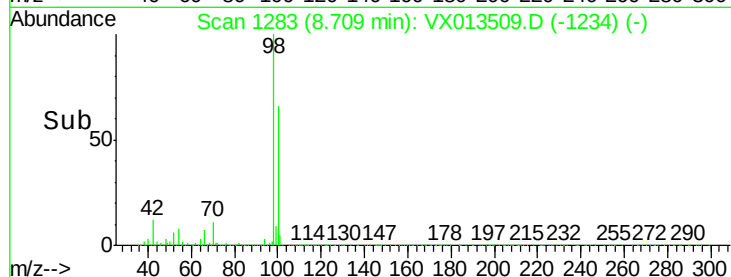
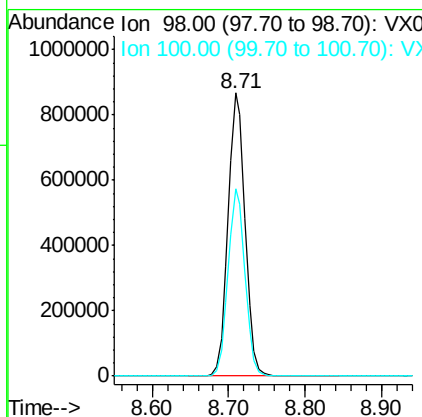
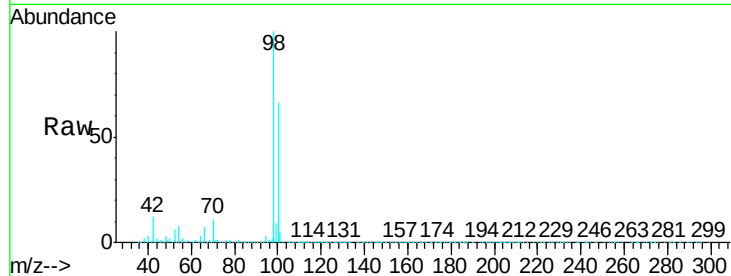




#50
Toluene-d8
Concen: 50.436 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013509.D
Acq: 21 Nov 2019 17:33

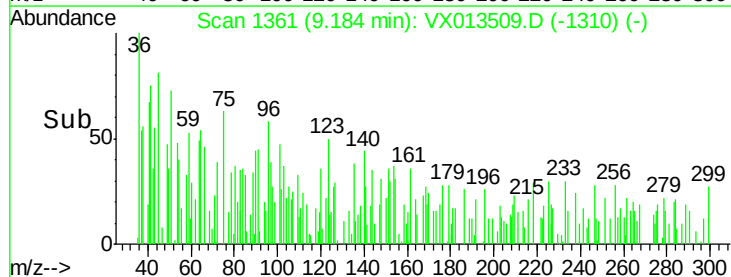
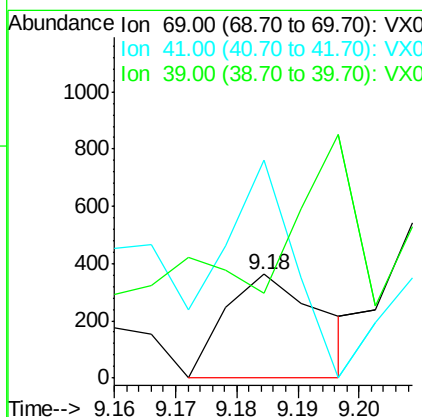
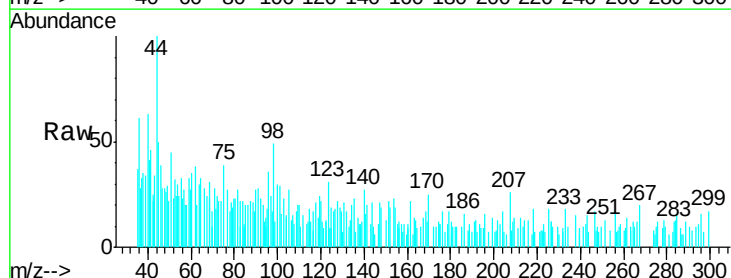
Instrument :
MSVOA_X
ClientSampleId :
08BR-20191120

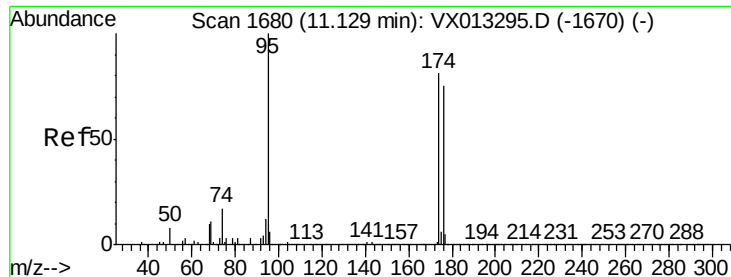
Tgt Ion: 98 Resp: 1331009
Ion Ratio Lower Upper
98 100
100 66.1 52.2 78.2



#56
Ethyl methacrylate
Concen: 1.592 ug/l
RT: 9.18 min Scan# 1361
Delta R.T. 0.01 min
Lab File: VX013509.D
Acq: 21 Nov 2019 17:33

Tgt Ion: 69 Resp: 397
Ion Ratio Lower Upper
69 100
41 145.1 56.2 84.2#
39 0.0 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 45.849 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120

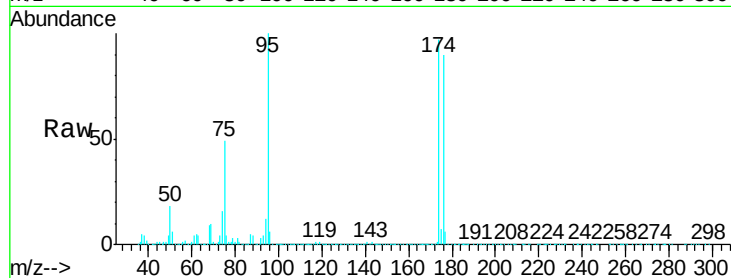
Tgt Ion: 95 Resp: 436683

Ion Ratio Lower Upper

95 100

174 90.9 0.0 179.8

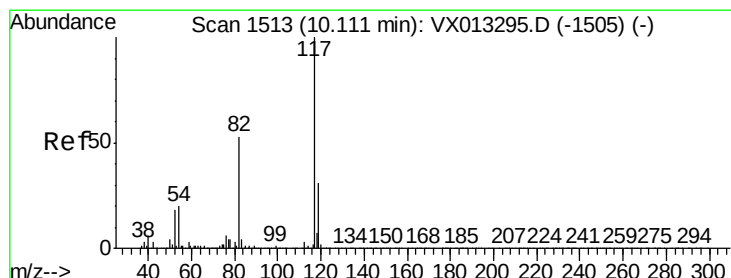
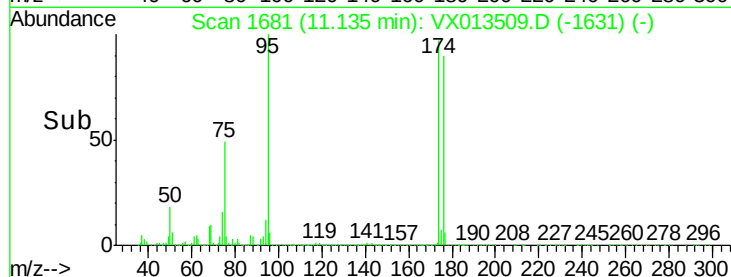
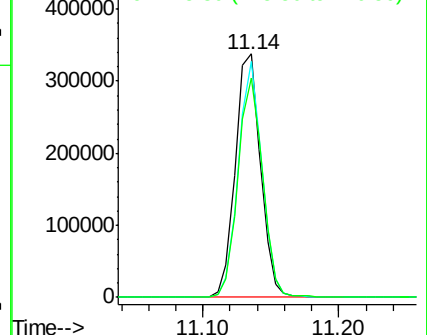
176 88.0 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

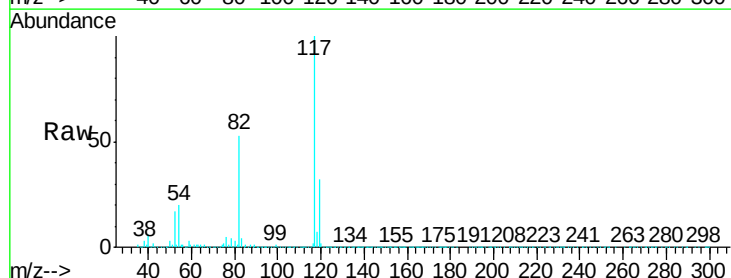
Tgt Ion: 117 Resp: 985966

Ion Ratio Lower Upper

117 100

82 52.8 42.6 64.0

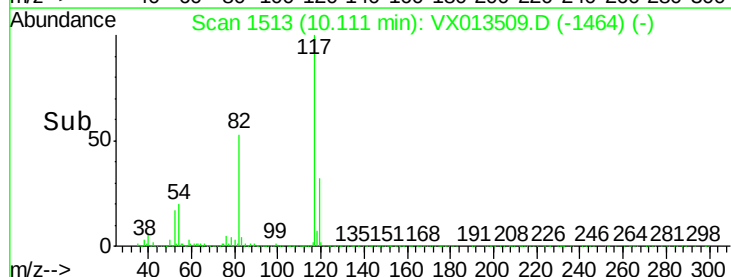
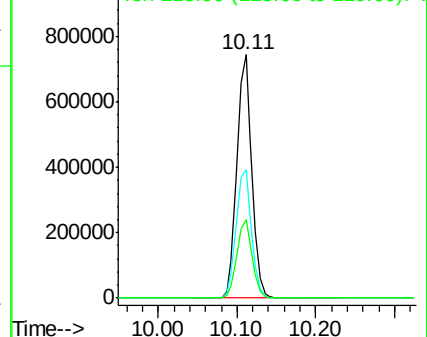
119 32.2 24.8 37.2

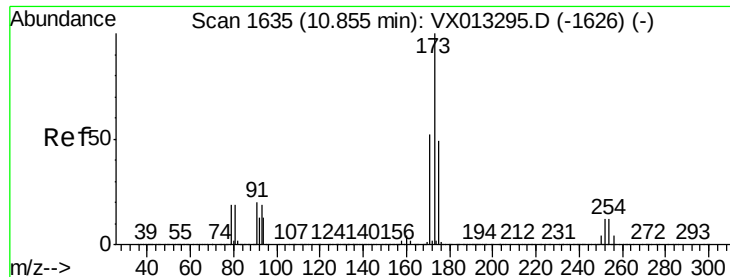


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 3.227 ug/l

RT: 10.83 min Scan# 1631

Delta R.T. -0.02 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

08BR-20191120

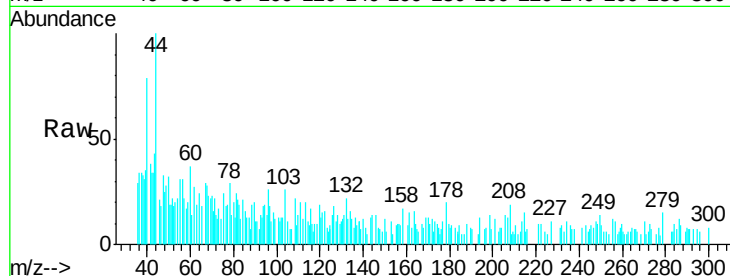
Tgt Ion:173 Resp: 181

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

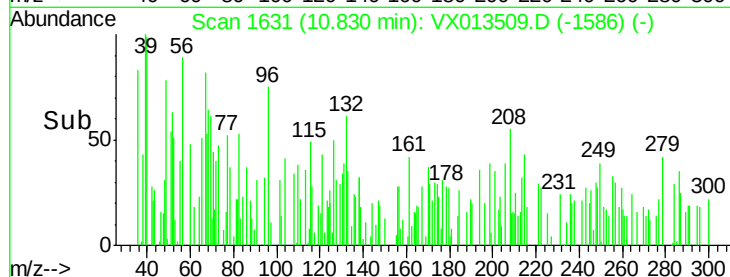
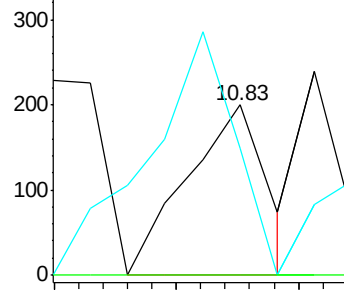
254 0.0 0.2 0.2#



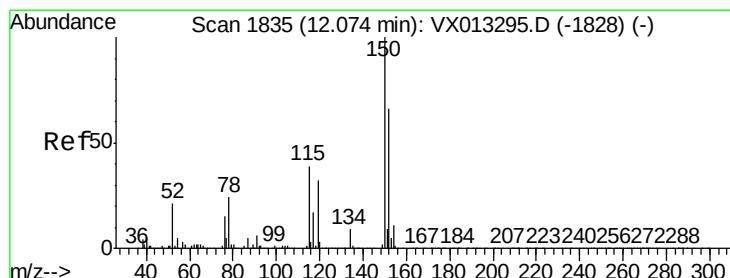
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time--> 10.80 10.82 10.84



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

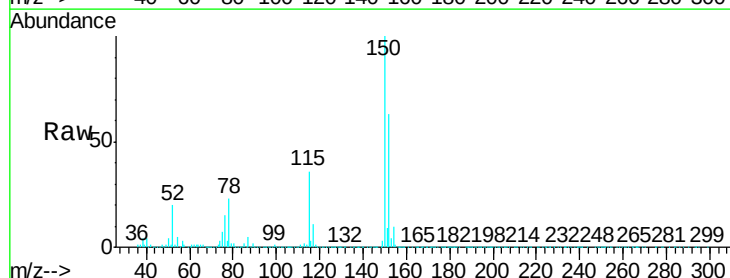
Tgt Ion:152 Resp: 437283

Ion Ratio Lower Upper

152 100

115 55.3 39.5 118.3

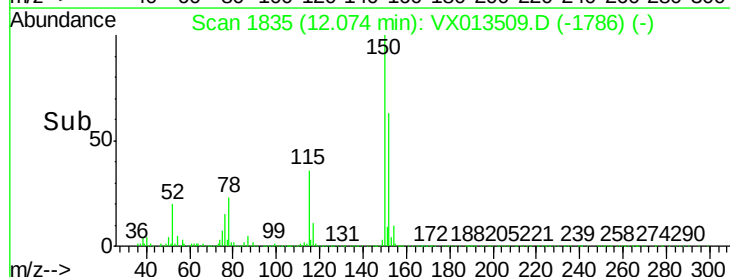
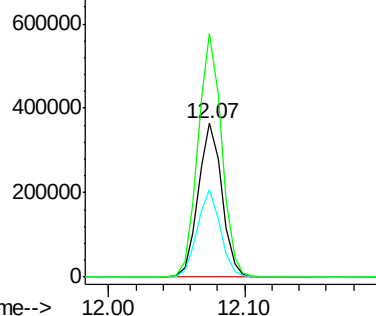
150 159.1 0.0 344.4



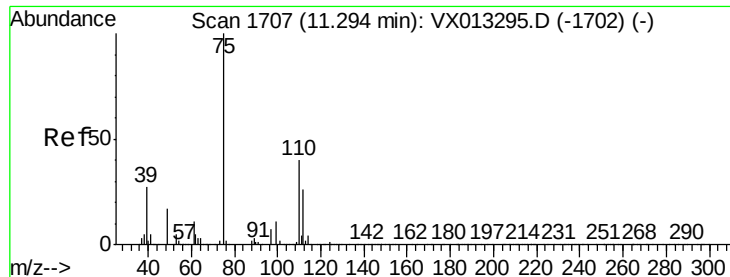
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time--> 12.00 12.10



#76

1,2,3-Trichloropropane

Concen: 24.449 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

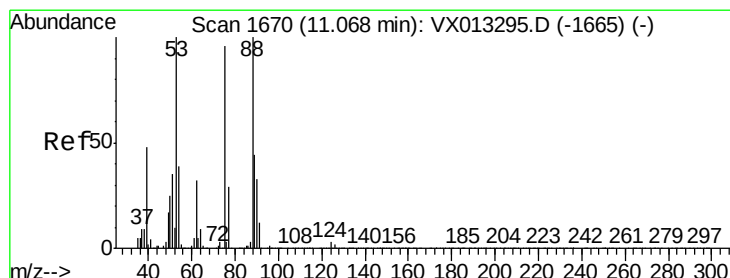
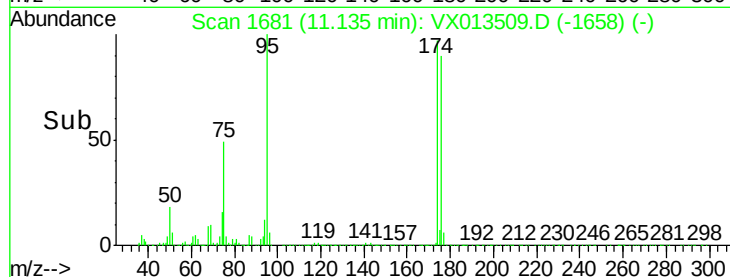
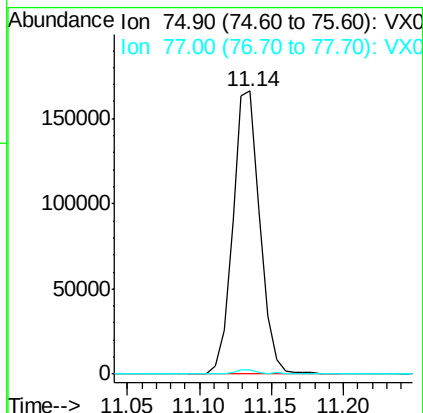
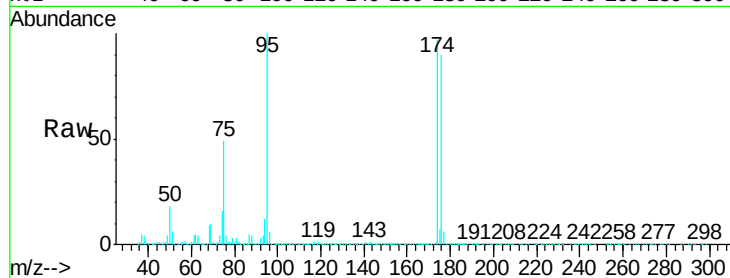
08BR-20191120

Tgt Ion: 75 Resp: 217154

Ion Ratio Lower Upper

75 100

77 1.4 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.932 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013509.D

Acq: 21 Nov 2019 17:33

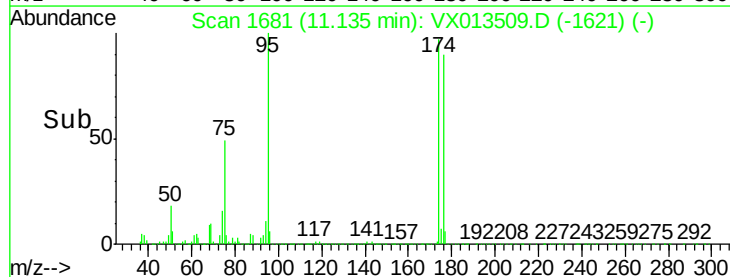
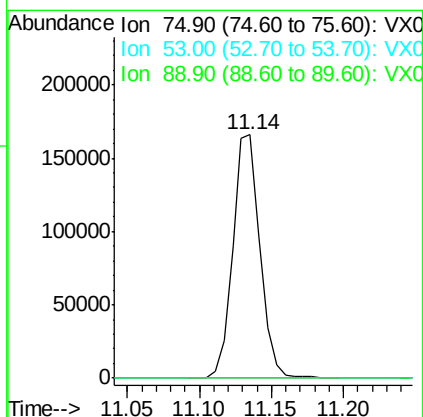
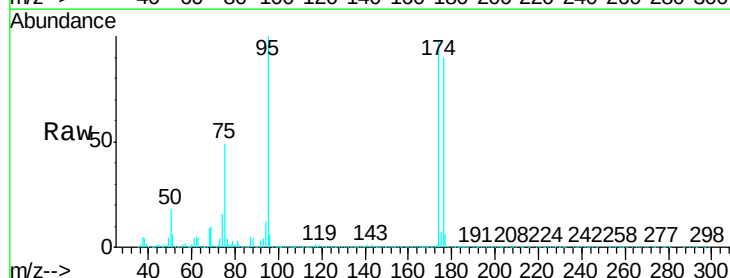
Tgt Ion: 75 Resp: 217154

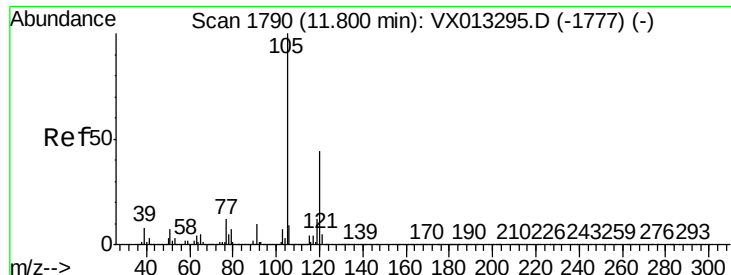
Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 36.0 54.0#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.462 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: VX013509.D
 Acq: 21 Nov 2019 17:33

Instrument :
 MSVOA_X
 ClientSampleId :
 08BR-20191120

Tgt Ion:105 Resp: 11187
 Ion Ratio Lower Upper
 105 100
 120 49.4 22.7 68.1

