

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013561.D
 Acq On : 23 Nov 2019 02:49
 Operator : JC/SP
 Sample : K5962-11 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 56BR-20191120

Quant Time: Nov 23 03:25:29 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	631876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1028746	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	914300	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	421326	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	381172	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
35) Dibromofluoromethane	5.49	113	316428	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	1239679	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.13	95	417540	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	

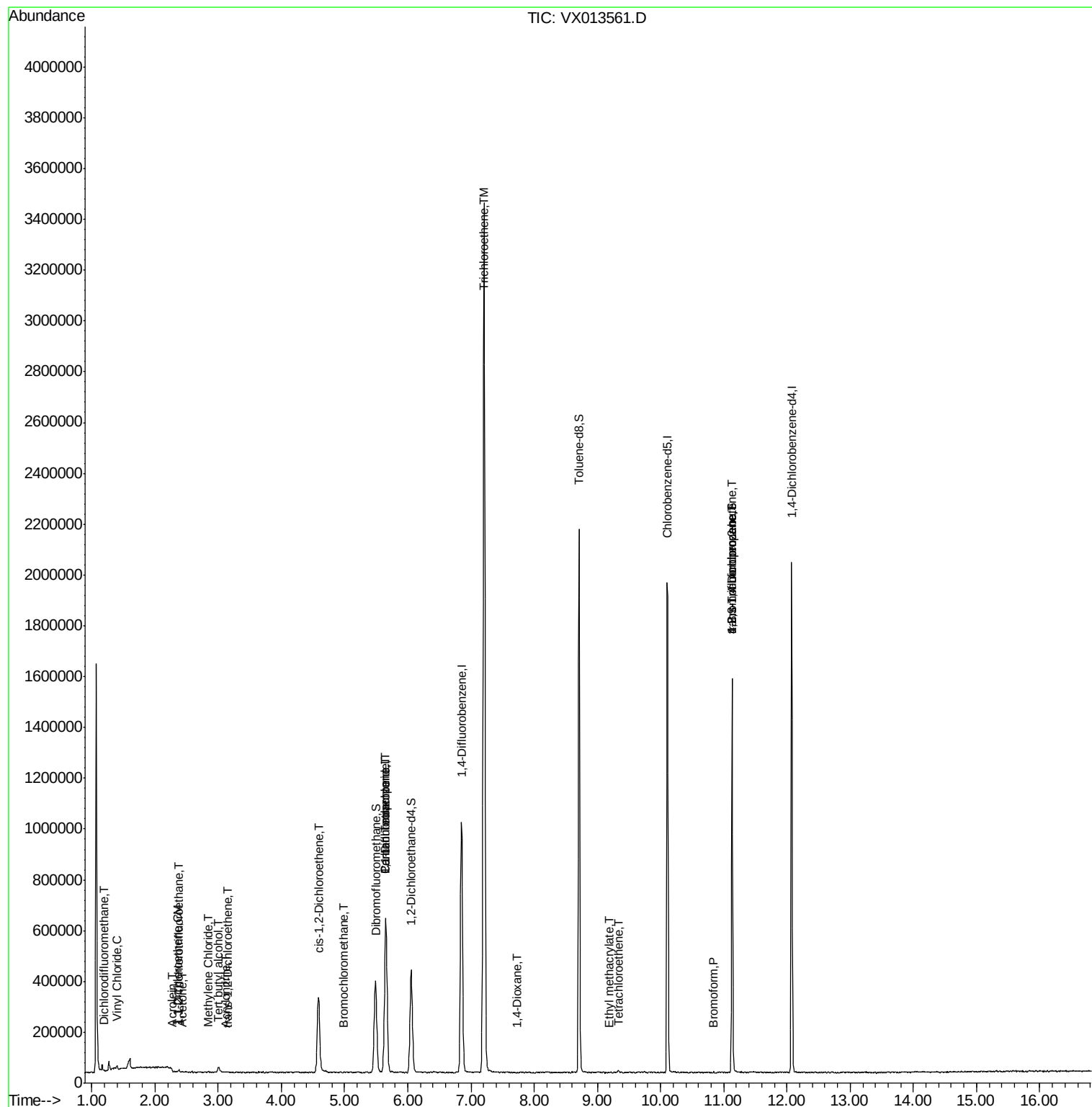
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1760	0.242	ug/l	97
4) Vinyl Chloride	1.40	62	7645	0.851	ug/l #	85
6) Chloroethane	1.68	64	1027	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3219	0.544	ug/l #	79
11) Tert butyl alcohol	3.01	59	13147	6.663	ug/l #	82
12) 1,1-Dichloroethene	2.36	96	1474	0.254	ug/l #	60
13) Acrolein	2.28	56	352	0.329	ug/l #	14
15) Acrylonitrile	3.12	53	975	0.265	ug/l #	79
16) Acetone	2.43	43	2336	0.626	ug/l #	84
20) Methylene Chloride	2.84	84	2195	0.318	ug/l #	80
21) trans-1,2-Dichloroethene	3.15	96	2021	0.320	ug/l #	13
27) cis-1,2-Dichloroethene	4.59	96	193182	27.326	ug/l	90
28) Bromochloromethane	4.98	49	910	0.282	ug/l #	43
36) 1,1-Dichloropropene	5.65	75	42620	4.829	ug/l #	51
38) Carbon Tetrachloride	5.65	117	54968	6.369	ug/l #	14
44) Trichloroethene	7.21	130	1366412	180.569	ug/l	100
49) 1,4-Dioxane	7.73	88	742	3.822	ug/l #	56
56) Ethyl methacrylate	9.18	69	380	1.594	ug/l #	1
64) Tetrachloroethene	9.34	164	1880	0.287	ug/l #	73
71) Bromoform	10.82	173	309	3.248	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	200582	23.439	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	200582	60.331	ug/l #	9

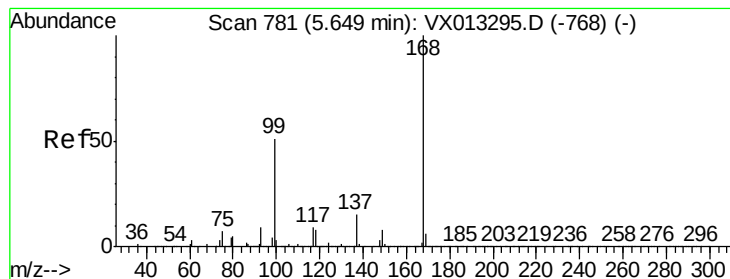
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

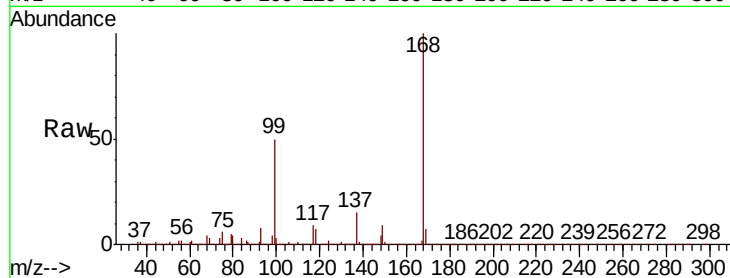
56BR-20191120

Tot Ion:168 Resp: 631876

Ion Ratio Lower Upper

168 100

99 50.1 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

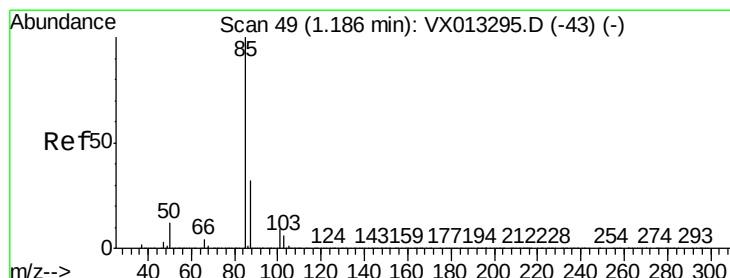
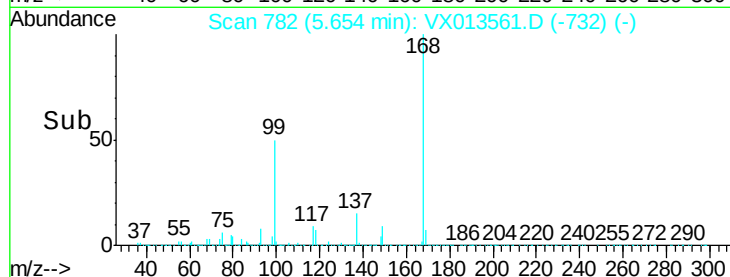
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.242 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013561.D

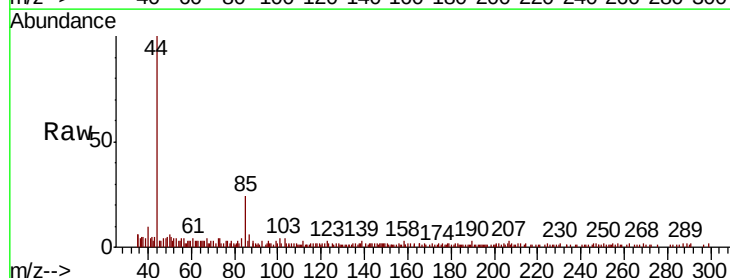
Acq: 23 Nov 2019 02:49

Tgt Ion: 85 Resp: 1760

Ion Ratio Lower Upper

85 100

87 29.8 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

2000

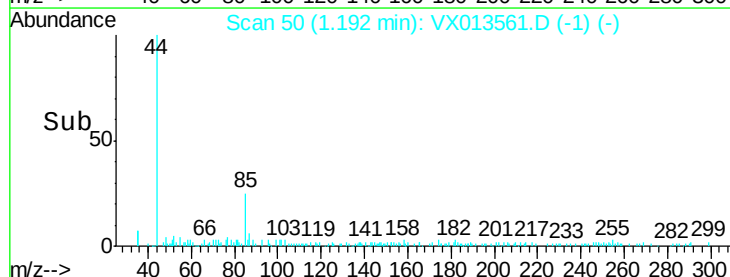
1500

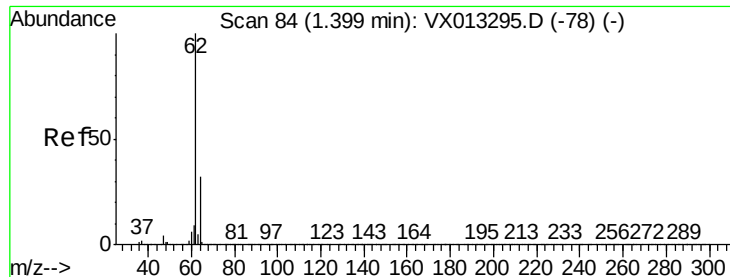
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.851 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

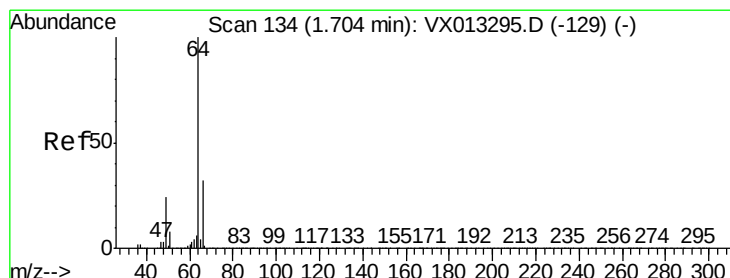
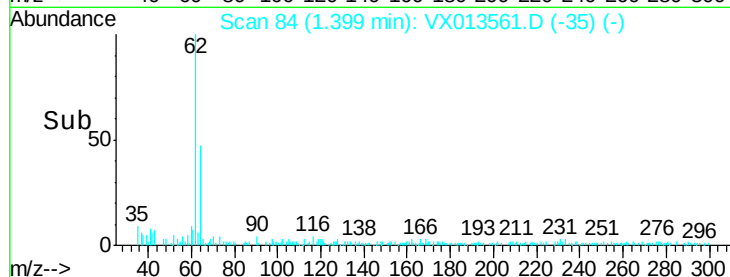
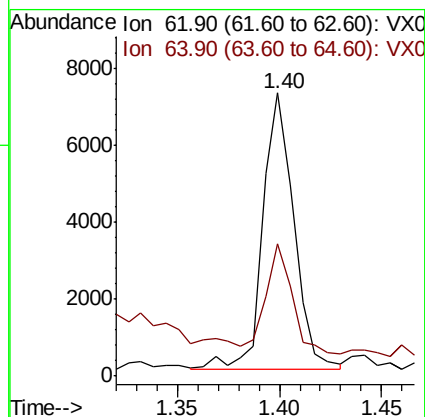
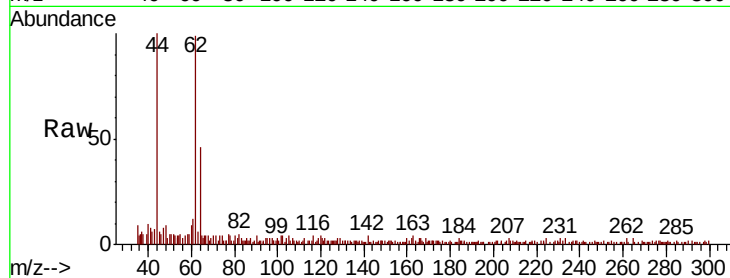
56BR-20191120

Tot Ion: 62 Resp: 7645

Ion Ratio Lower Upper

62 100

64 40.2 25.6 38.4#



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 130

Delta R.T. -0.02 min

Lab File: VX013561.D

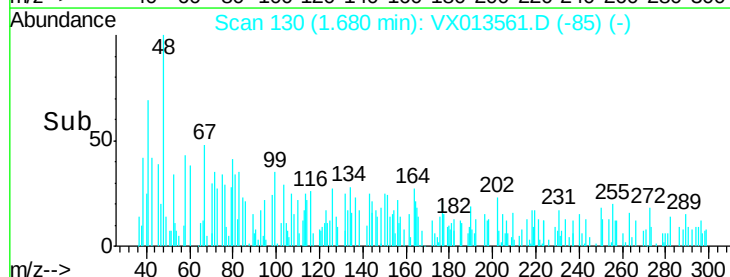
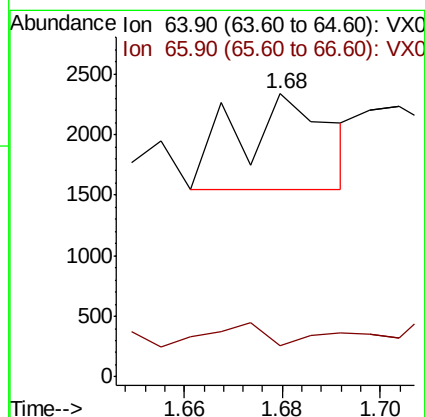
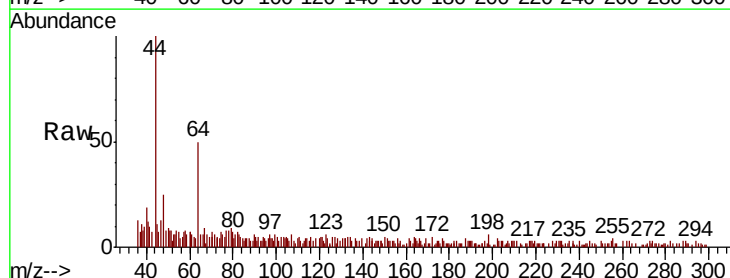
Acq: 23 Nov 2019 02:49

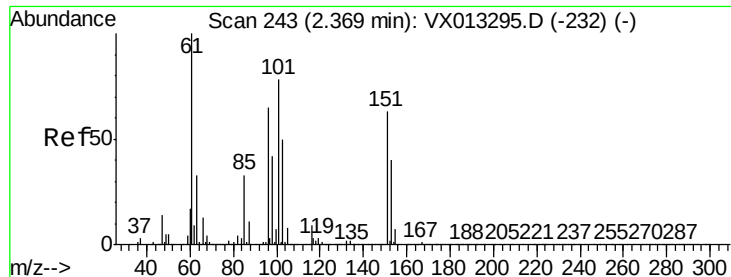
Tgt Ion: 64 Resp: 1027

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.544 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

56BR-20191120

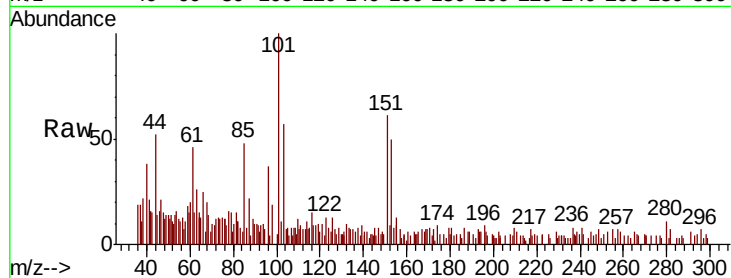
Tot Ion:101 Resp: 3219

Ion Ratio Lower Upper

101 100

85 63.0 34.4 51.6#

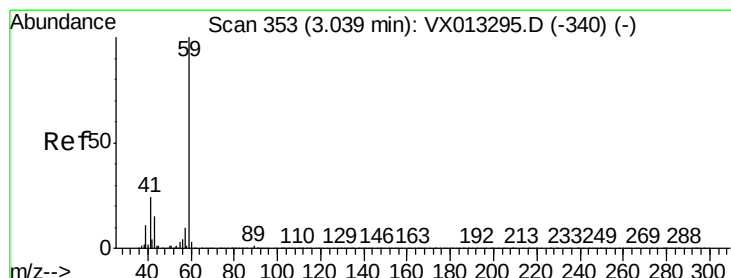
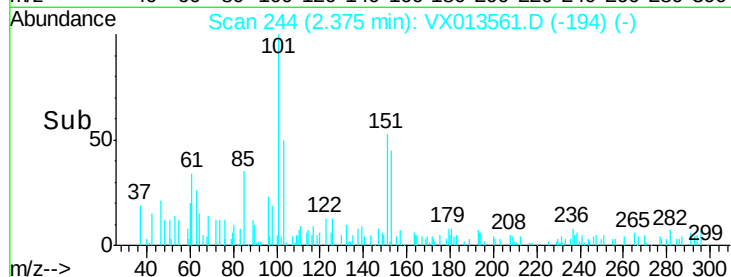
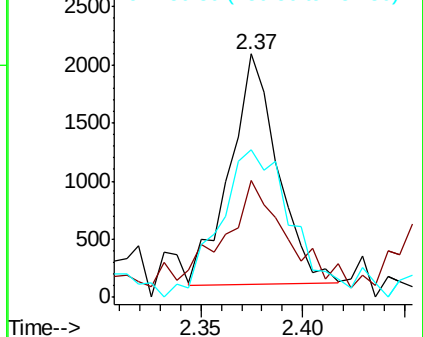
151 96.7 66.4 99.6



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: 6.663 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX013561.D

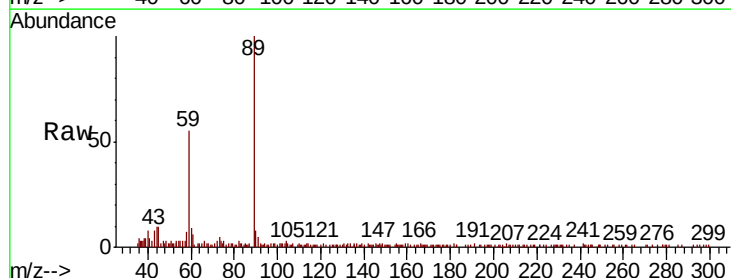
Acq: 23 Nov 2019 02:49

Tgt Ion: 59 Resp: 13147

Ion Ratio Lower Upper

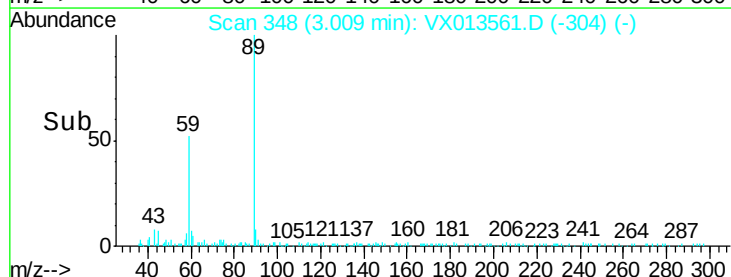
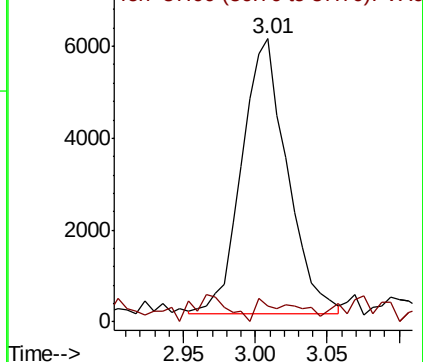
59 100

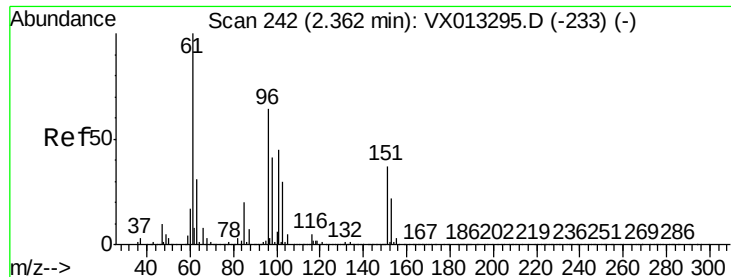
57 3.2 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.254 ug/l

RT: 2.36 min Scan# 241

Delta R.T. -0.01 min

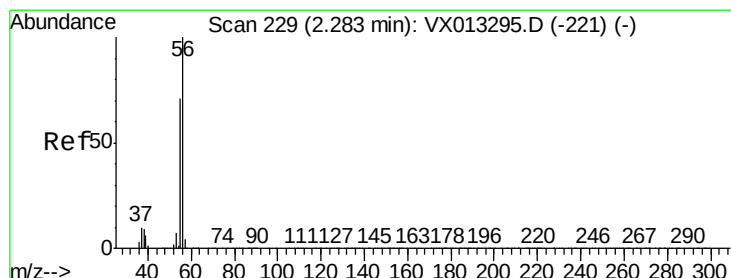
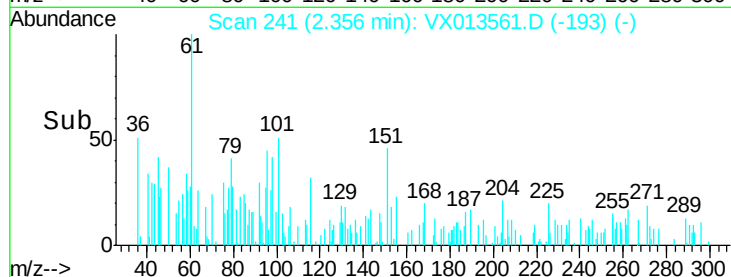
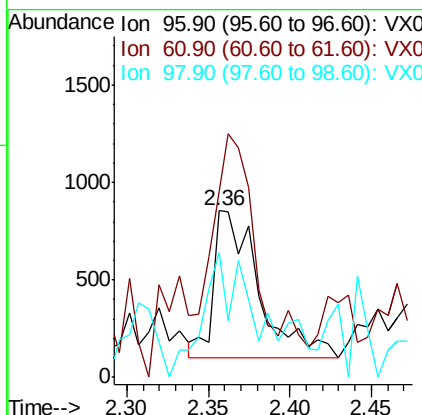
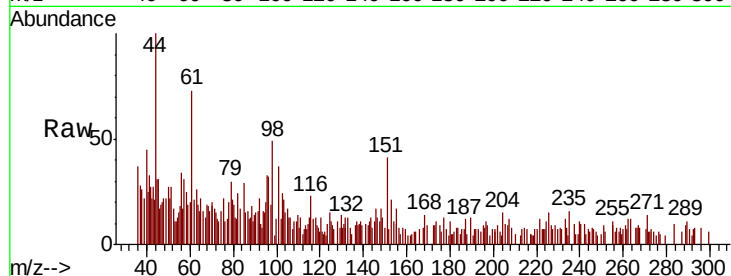
Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :
MSVOA_X
ClientSampleId :
56BR-20191120

Tot Ion: 96 Resp: 1474

Ion	Ratio	Lower	Upper
96	100		
61	85.0	125.0	187.6#
98	66.6	50.7	76.1



#13

Acrolein

Concen: 0.329 ug/l

RT: 2.28 min Scan# 229

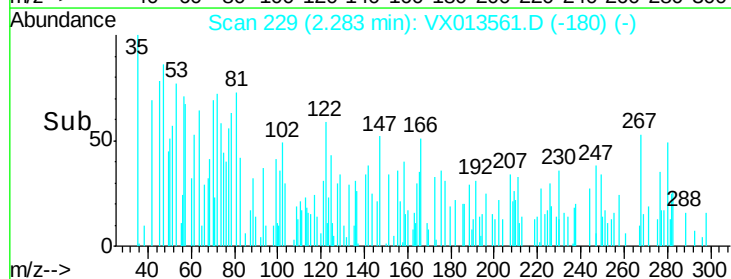
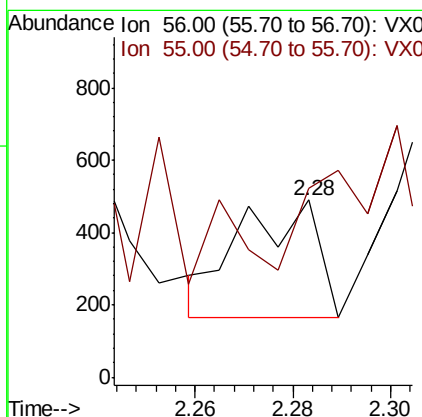
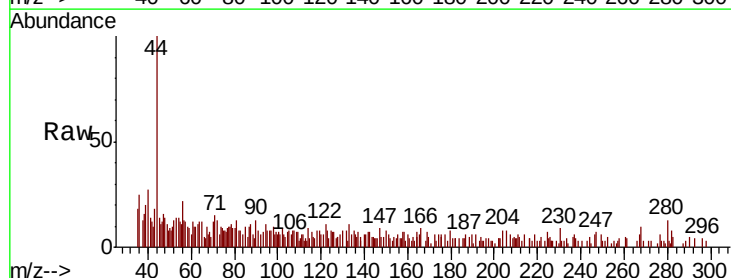
Delta R.T. -0.00 min

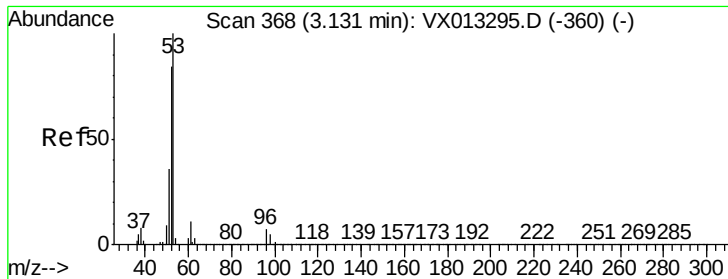
Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Tgt Ion: 56 Resp: 352

Ion	Ratio	Lower	Upper
56	100		
55	0.0	57.4	86.0#





#15

Acrylonitrile

Concen: 0.265 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampled :

56BR-20191120

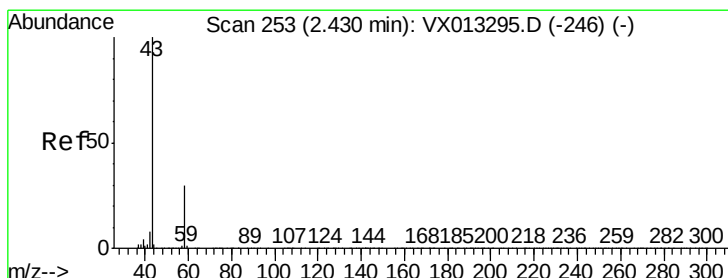
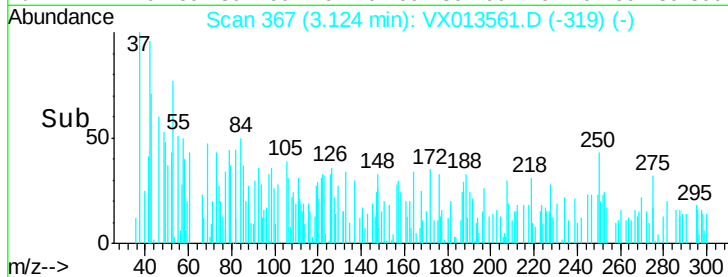
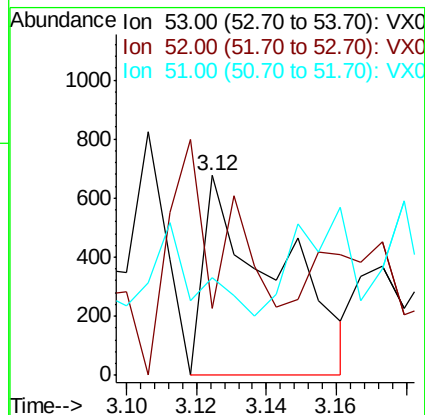
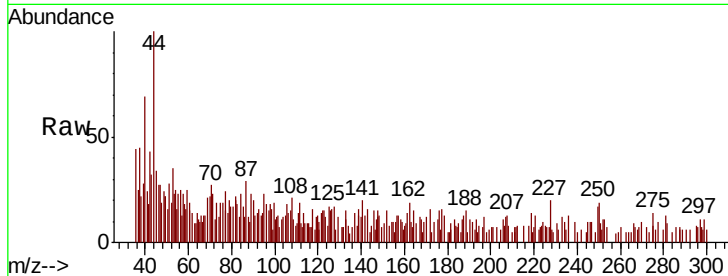
Tot Ion: 53 Resp: 975

Ion Ratio Lower Upper

53 100

52 104.3 67.4 101.0#

51 25.8 29.4 44.2#



#16

Acetone

Concen: 0.626 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013561.D

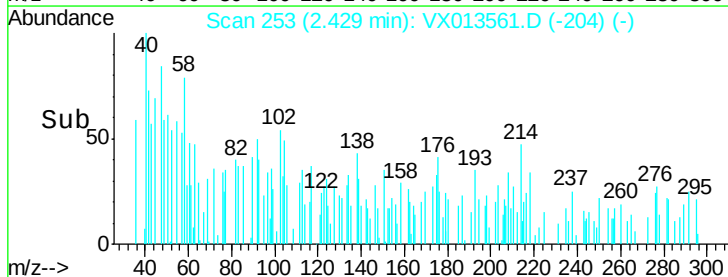
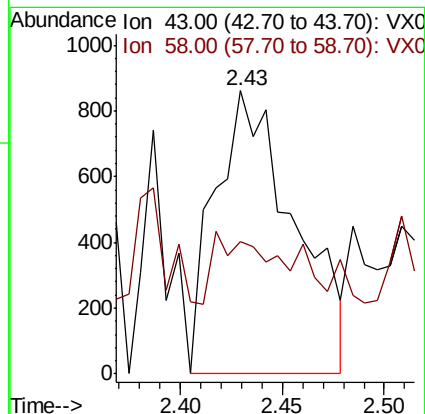
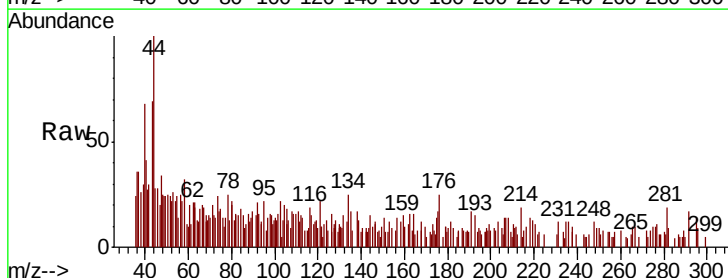
Acq: 23 Nov 2019 02:49

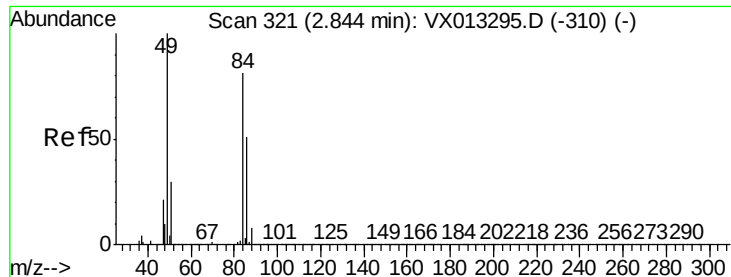
Tgt Ion: 43 Resp: 2336

Ion Ratio Lower Upper

43 100

58 21.5 24.3 36.5#

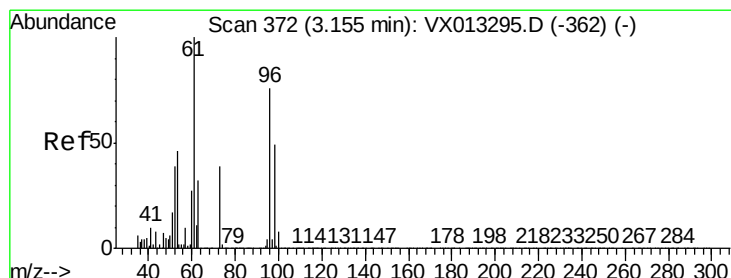
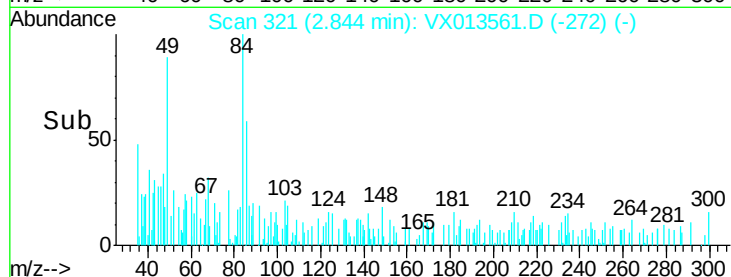
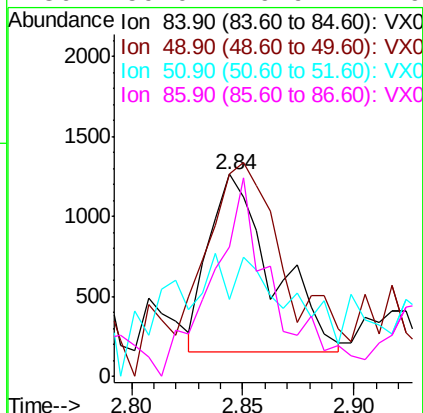
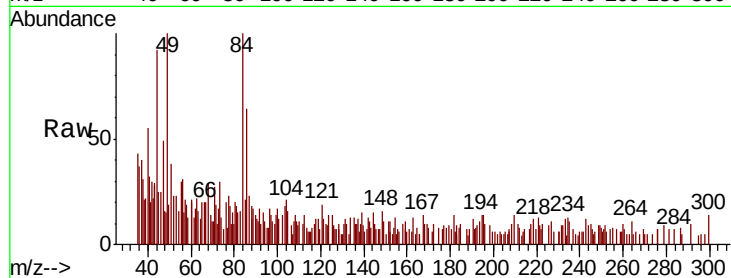




#20
Methvlene Chloride
Concen: 0.318 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

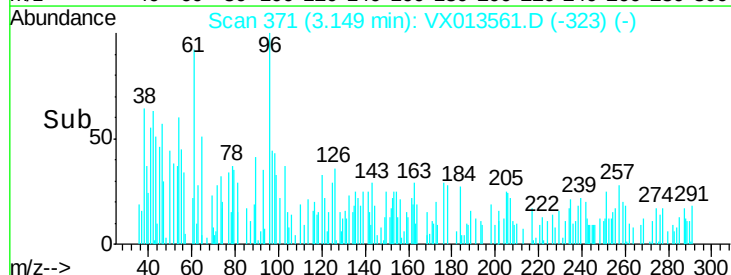
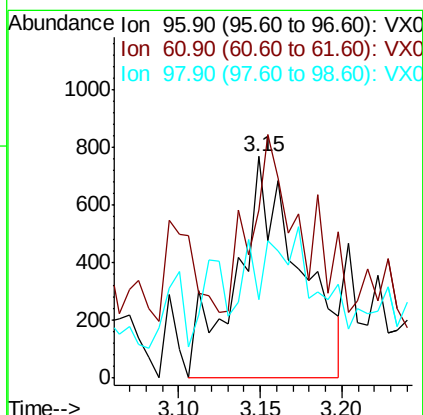
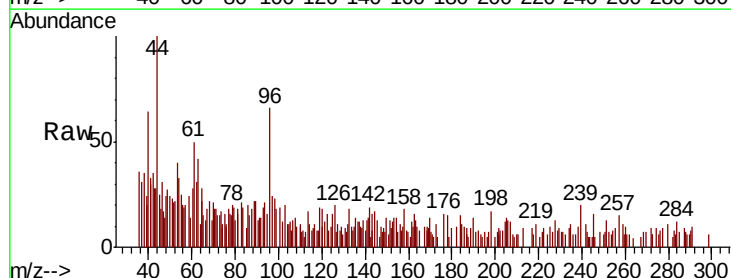
Instrument :
MSVOA_X
ClientSampleId :
56BR-20191120

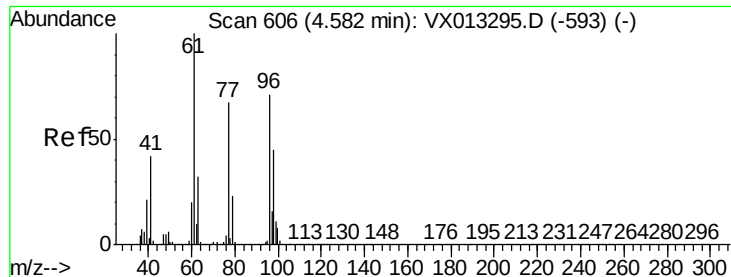
Tot Ion:	84	Resp:	2195
Ion	Ratio	Lower	Upper
84	100		
49	91.6	98.2	147.4#
51	26.6	29.9	44.9#
86	59.0	49.9	74.9



#21
trans-1,2-Dichloroethene
Concen: 0.320 ug/l
RT: 3.15 min Scan# 371
Delta R.T. -0.01 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

Tgt Ion:	96	Resp:	2021
Ion	Ratio	Lower	Upper
96	100		
61	11.8	105.8	158.6#
98	21.3	51.8	77.6#



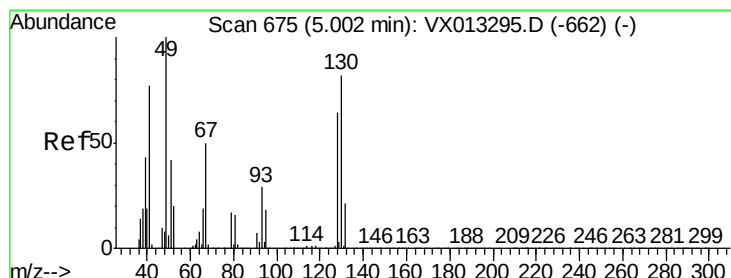
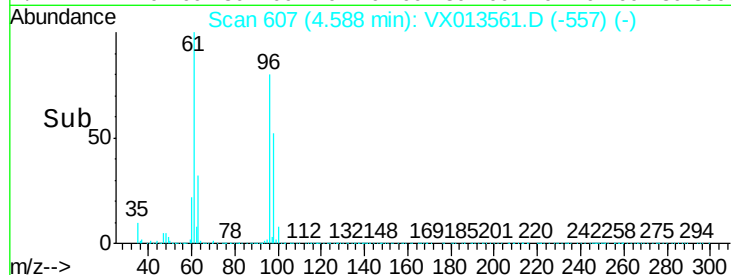
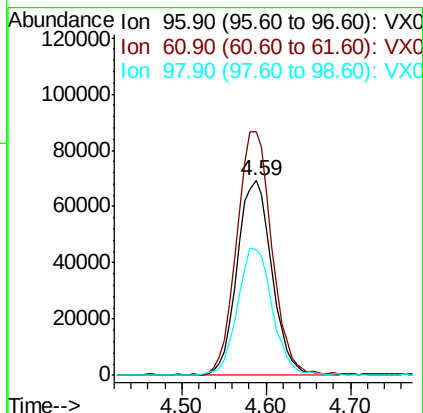
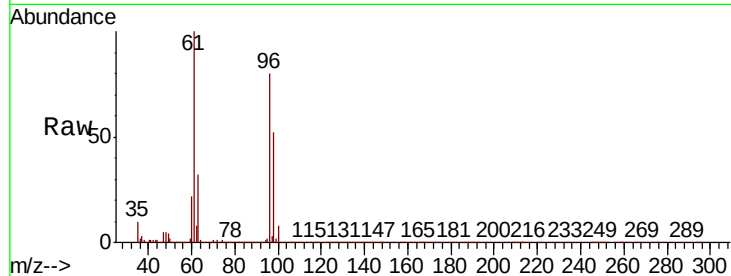


#27

cis-1,2-Dichloroethene
Concen: 27.326 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

Instrument :
MSVOA_X
ClientSampleId :
56BR-20191120

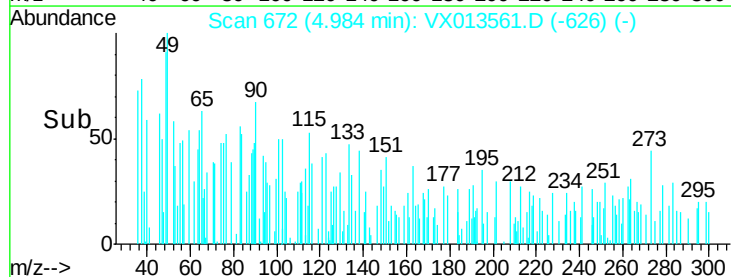
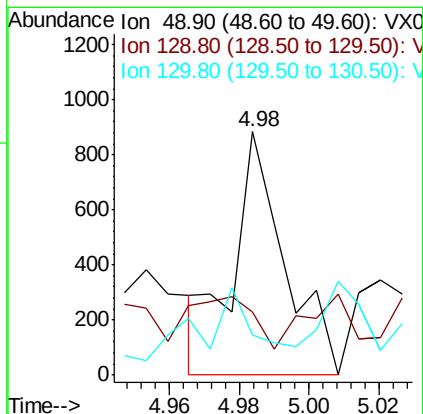
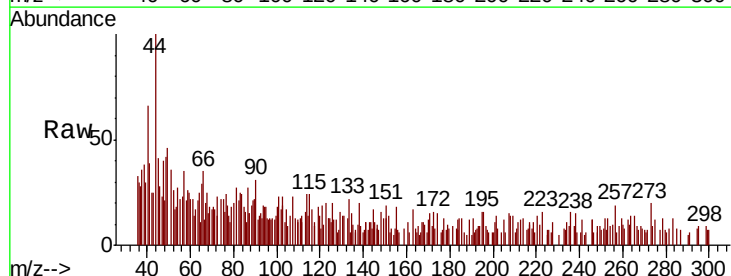
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.9	0.0	288.0
98	64.4	0.0	129.6

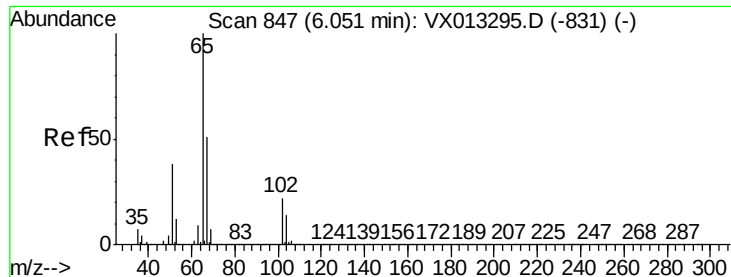


#28

Bromochloromethane
Concen: 0.282 ug/l
RT: 4.98 min Scan# 672
Delta R.T. -0.02 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

Tgt Ion	Ratio	Lower	Upper
49	100		
129	37.8	0.0	5.2#
130	30.8	63.8	95.6#

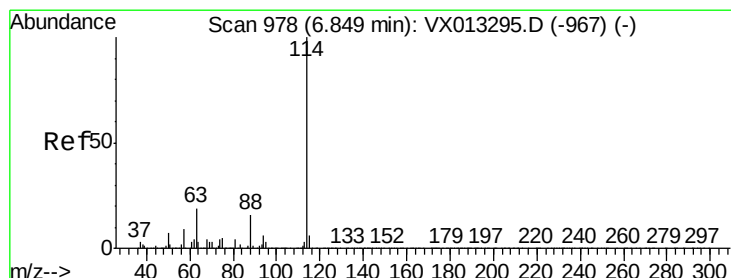
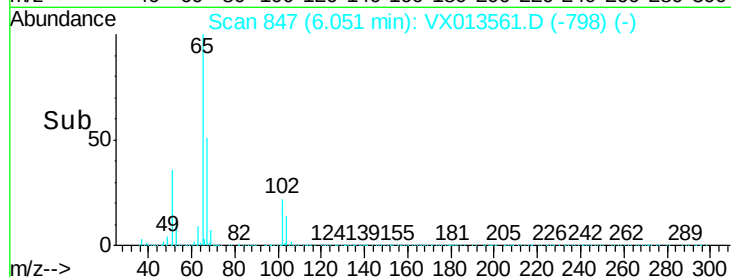
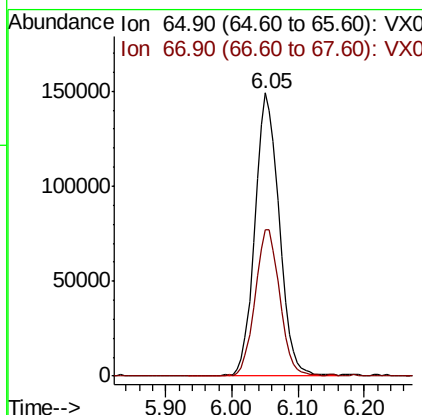
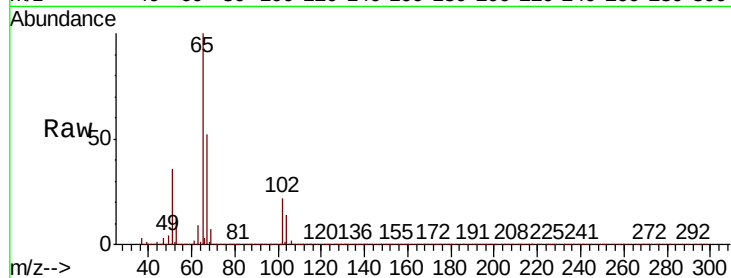




#33
 1,2-Dichloroethane-d4
 Concen: 50.919 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013561.D
 Acq: 23 Nov 2019 02:49

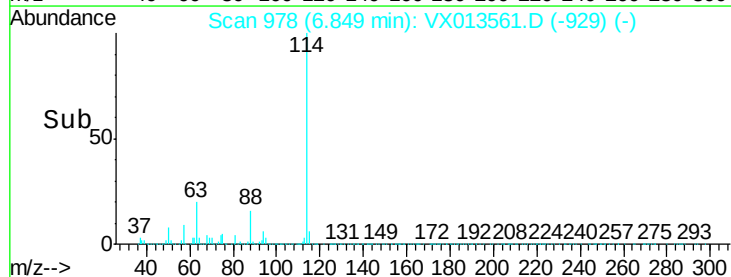
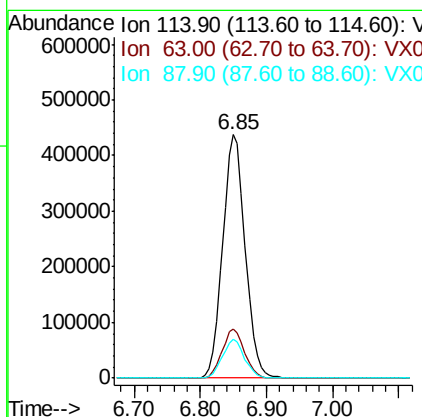
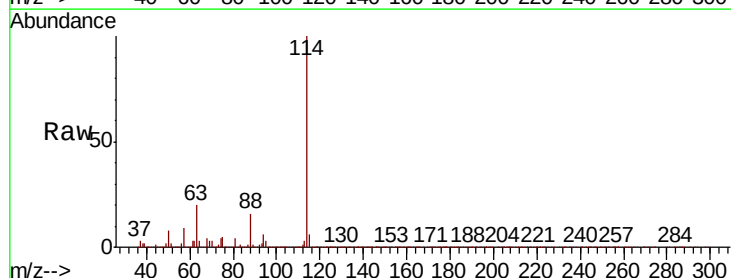
Instrument :
 MSVOA_X
 ClientSampleId :
 56BR-20191120

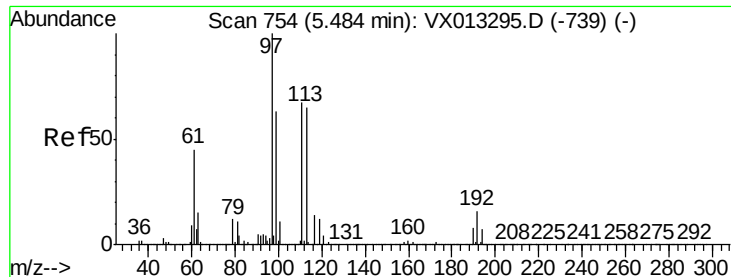
Tot Ion: 65 Resp: 381172
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013561.D
 Acq: 23 Nov 2019 02:49

Tgt Ion: 114 Resp: 1028746
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 38.4
 88 15.9 0.0 32.2





#35

Dibromofluoromethane

Concen: 49.040 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

56BR-20191120

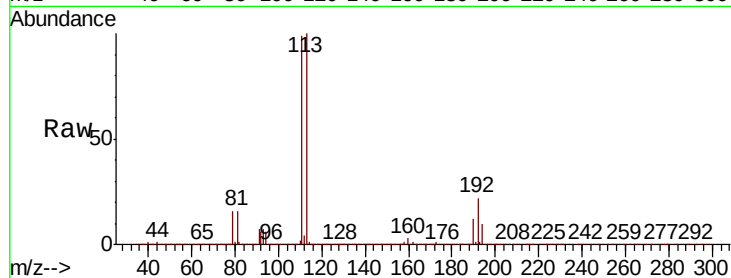
Tot Ion:113 Resp: 316428

Ion Ratio Lower Upper

113 100

111 101.7 81.9 122.9

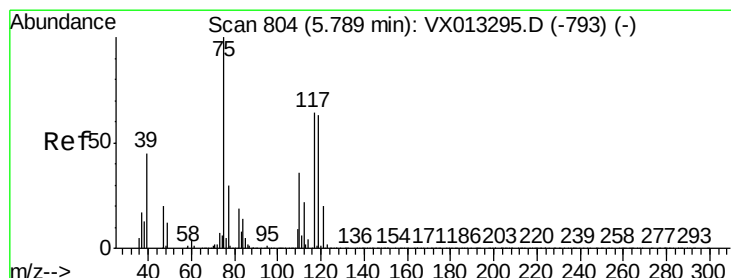
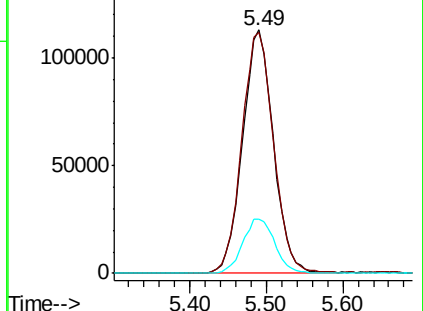
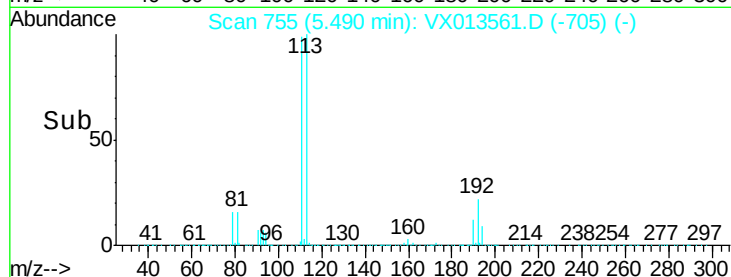
192 23.5 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.829 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

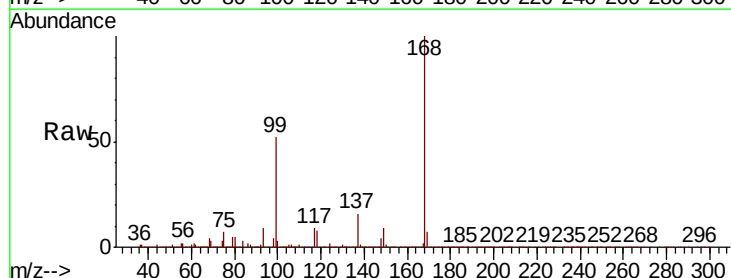
Tgt Ion: 75 Resp: 42620

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

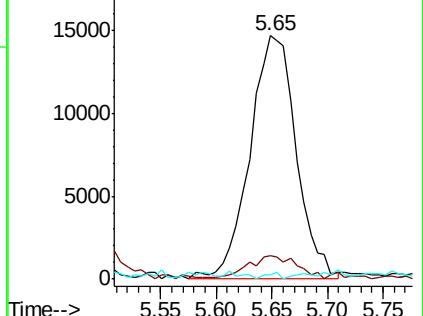
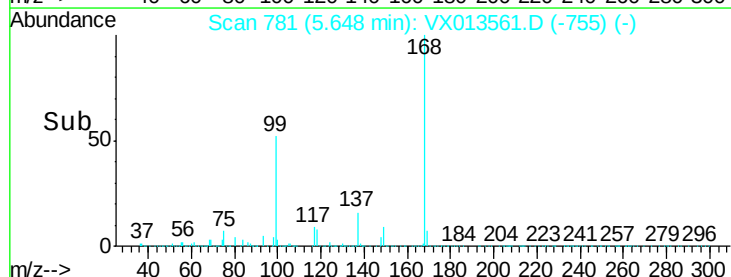
77 0.8 25.0 37.4#

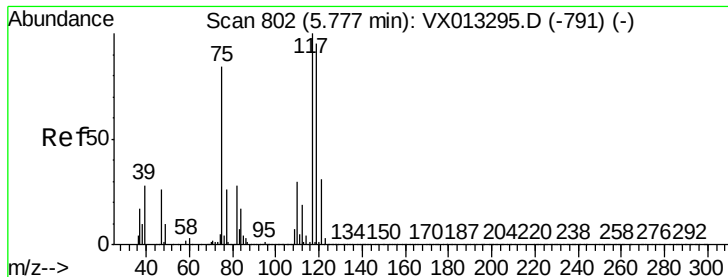


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.369 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

56BR-20191120

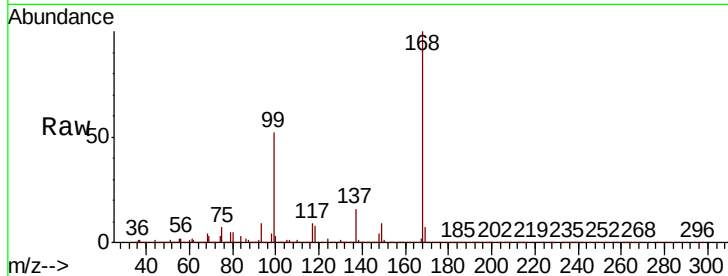
Tot Ion:117 Resp: 54968

Ion Ratio Lower Upper

117 100

119 2.6 76.1 114.1#

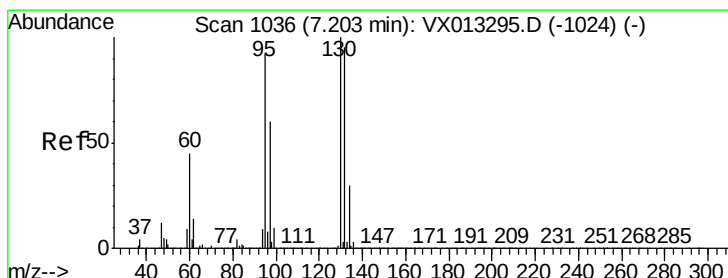
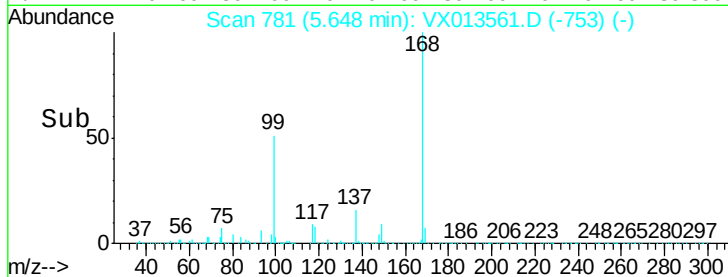
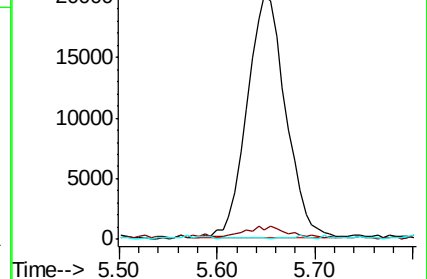
121 0.0 24.6 37.0#



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: 180.569 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013561.D

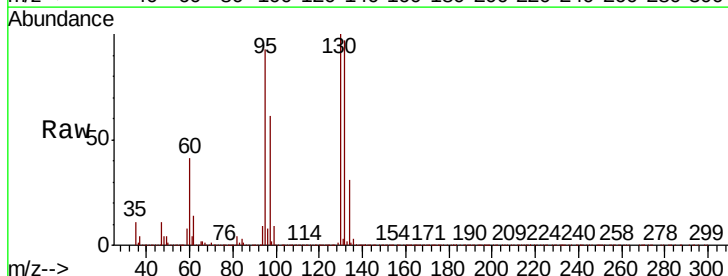
Acq: 23 Nov 2019 02:49

Tgt Ion:130 Resp: 1366412

Ion Ratio Lower Upper

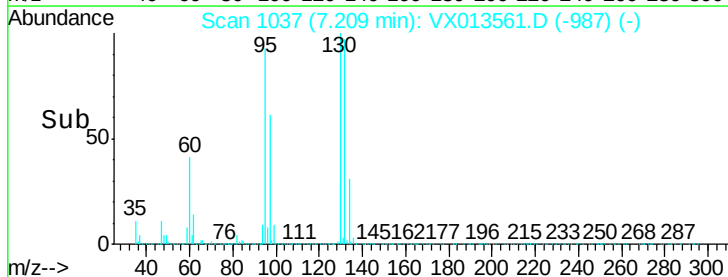
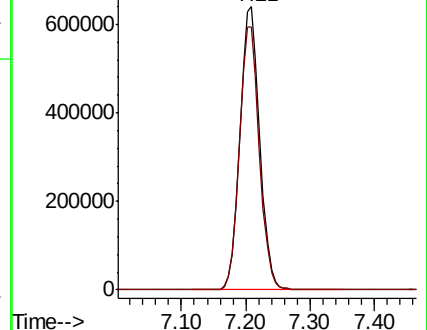
130 100

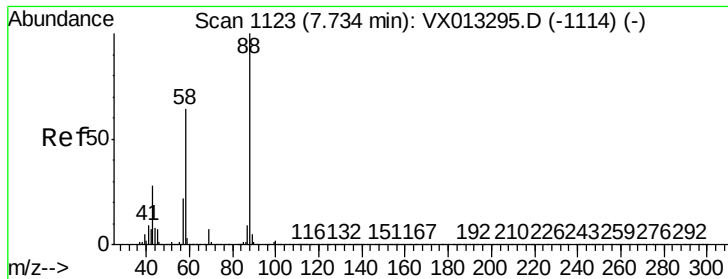
95 92.9 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 3.822 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

56BR-20191120

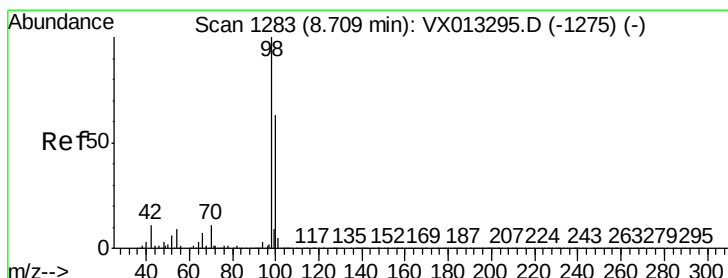
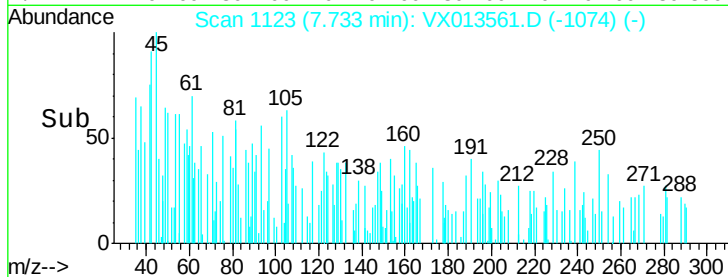
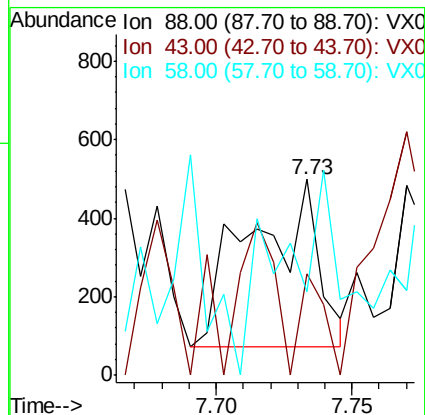
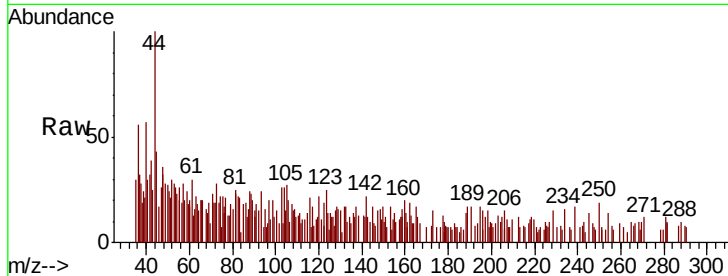
Tot Ion: 88 Resp: 742

Ion Ratio Lower Upper

88 100

43 21.7 26.6 39.8#

58 113.6 55.0 82.6#



#50

Toluene-d8

Concen: 50.963 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013561.D

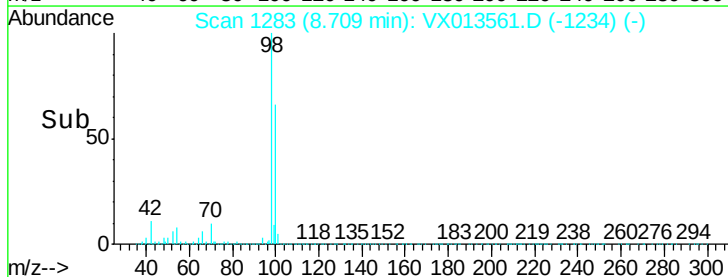
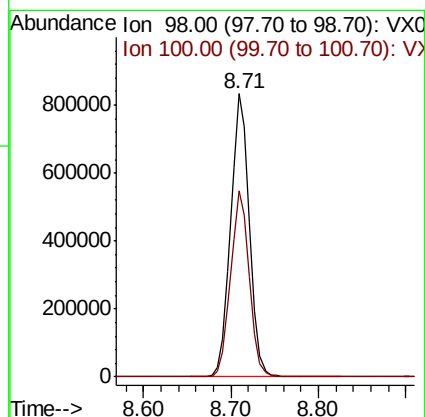
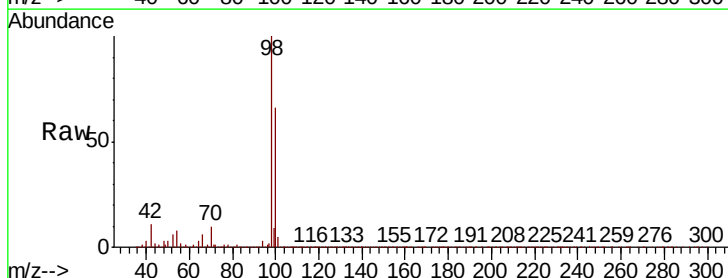
Acq: 23 Nov 2019 02:49

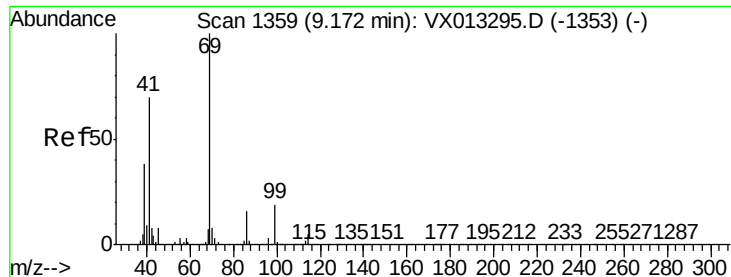
Tgt Ion: 98 Resp: 1239679

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2

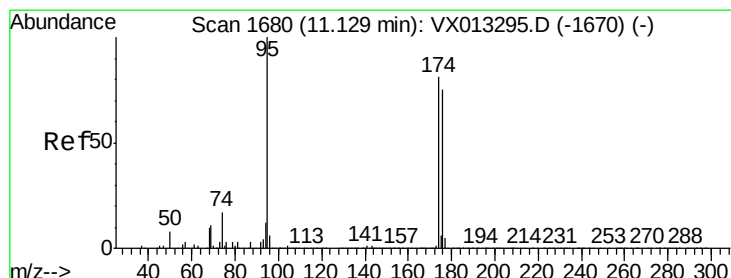
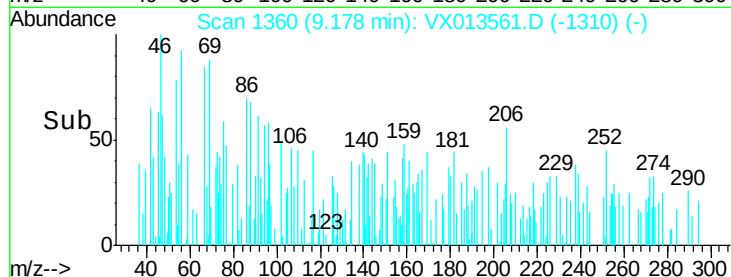
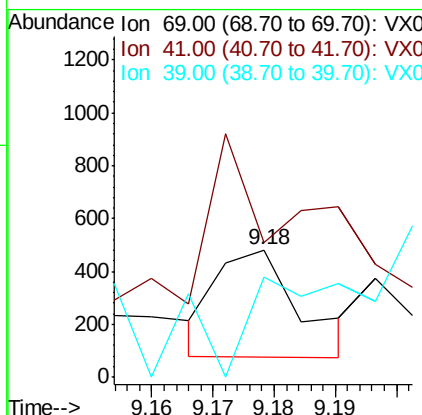
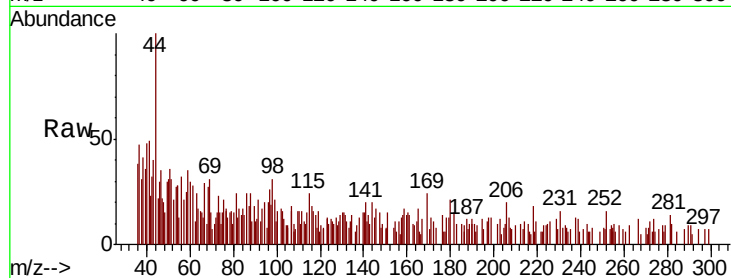




#56
Ethyl methacrylate
Concen: 1.594 ug/l
RT: 9.18 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

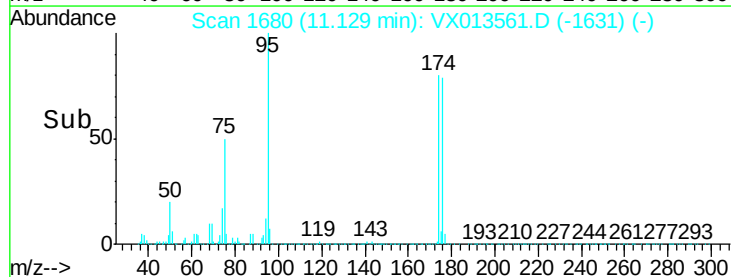
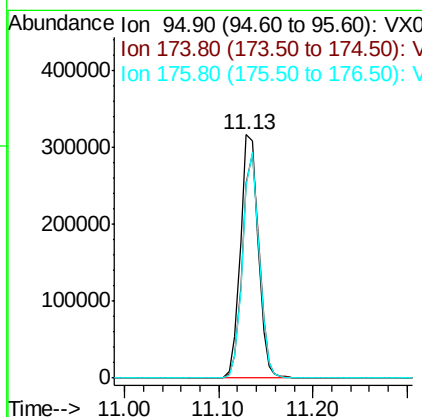
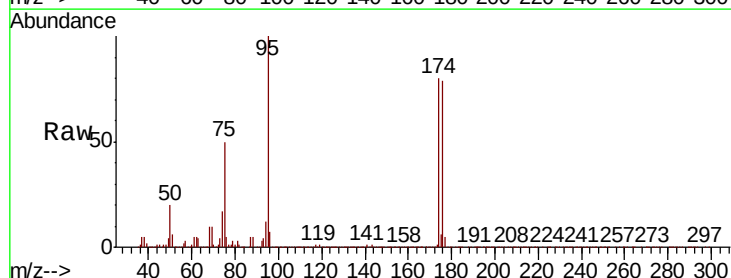
Instrument :
MSVOA_X
ClientSampleId :
56BR-20191120

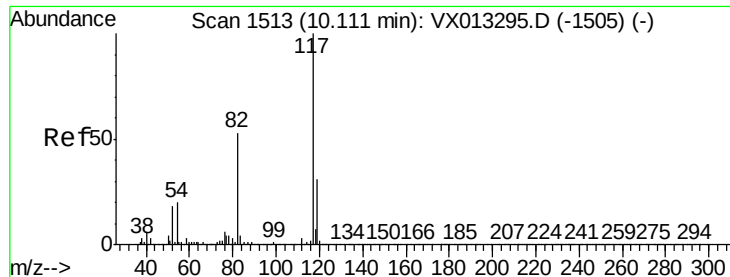
Tot Ion: 69 Resp: 380
Ion Ratio Lower Upper
69 100
41 171.8 56.2 84.2#
39 0.0 31.1 46.7#



#62
4-Bromofluorobenzene
Concen: 47.561 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

Tgt Ion: 95 Resp: 417540
Ion Ratio Lower Upper
95 100
174 88.3 0.0 179.8
176 86.5 0.0 173.0

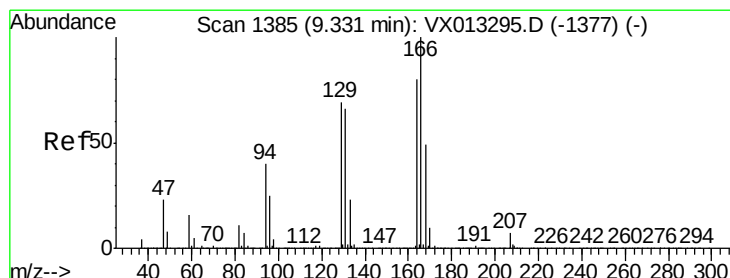
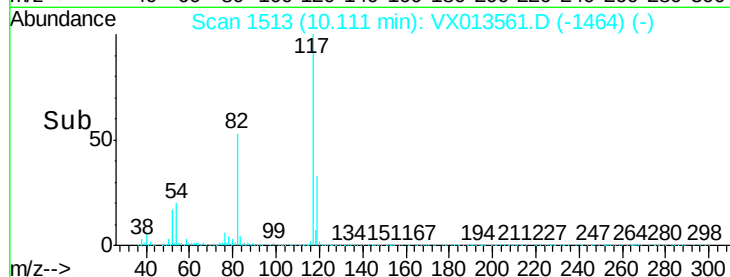
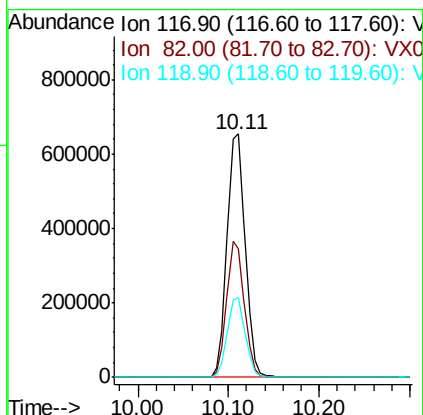
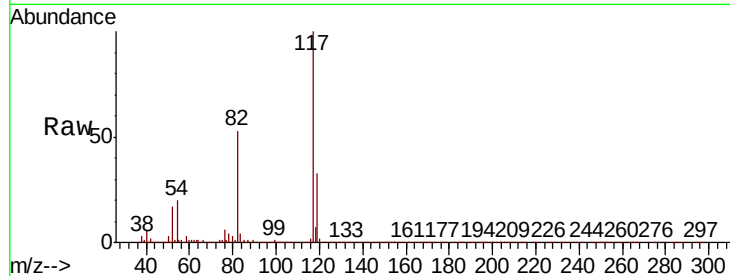




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

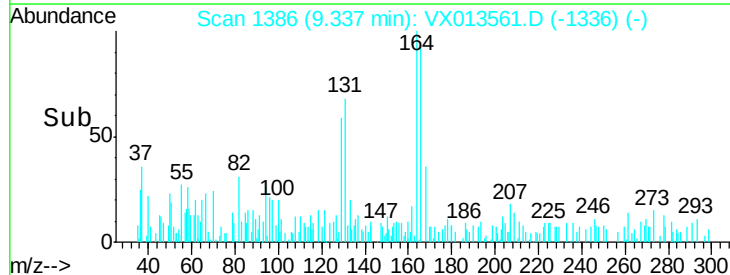
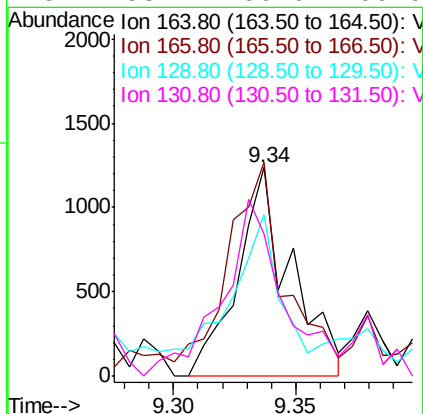
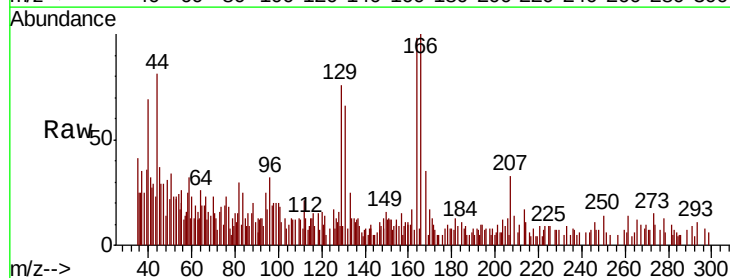
Instrument :
MSVOA_X
ClientSampleId :
56BR-20191120

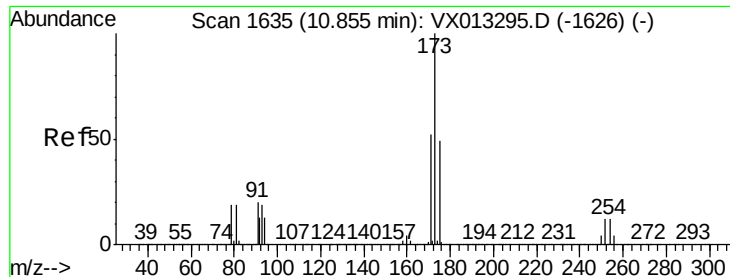
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.6	64.0
119	32.8	24.8	37.2



#64
Tetrachloroethene
Concen: 0.287 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013561.D
Acq: 23 Nov 2019 02:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	93.8	100.4	150.6#
129	64.8	69.4	104.2#
131	58.7	66.6	100.0#





#71

Bromoform

Concen: 3.248 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.03 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

56BR-20191120

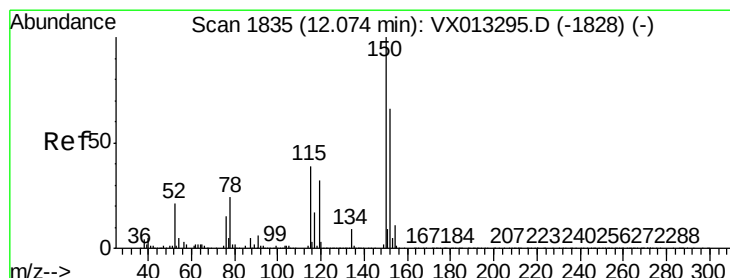
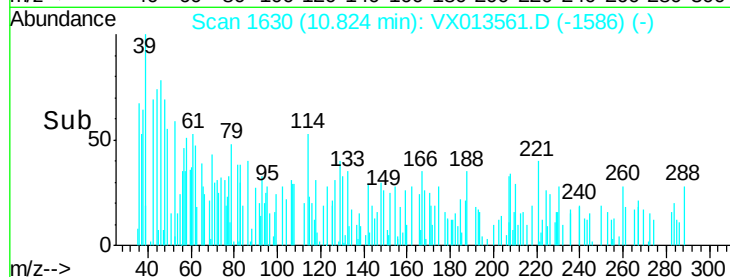
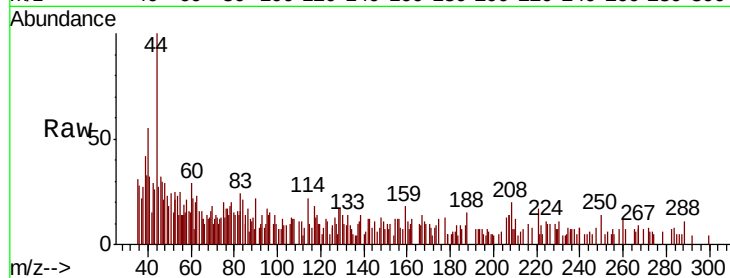
Tot Ion:173 Resp: 309

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

254 31.7 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: VX013561.D

Acq: 23 Nov 2019 02:49

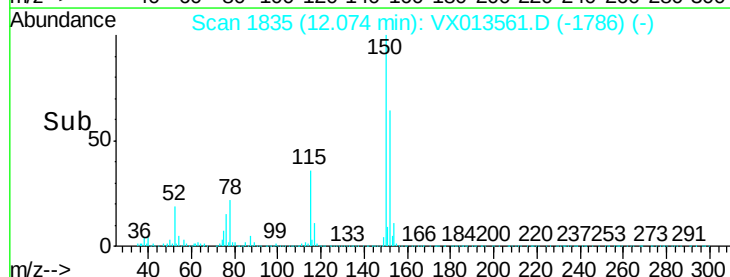
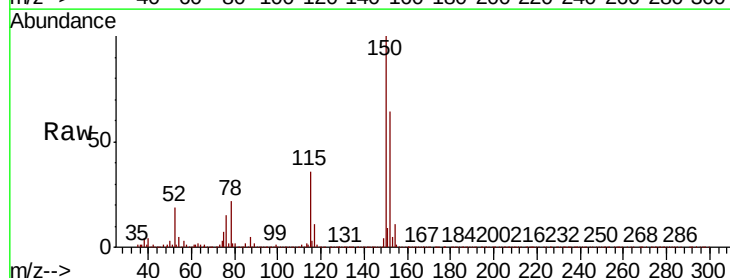
Tgt Ion:152 Resp: 421326

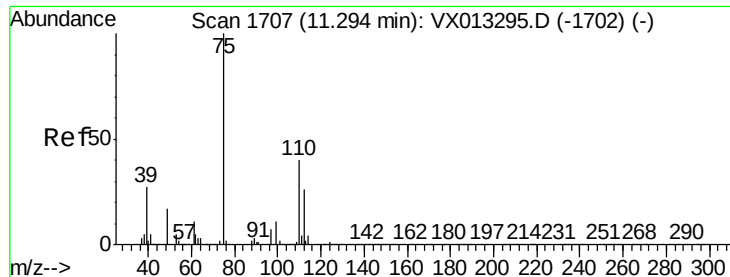
Ion Ratio Lower Upper

152 100

115 55.3 39.5 118.3

150 156.4 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 23.439 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

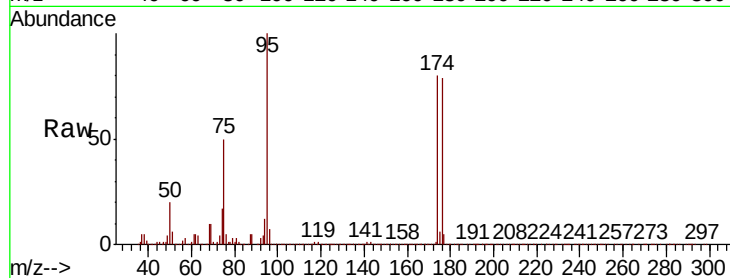
56BR-20191120

Tot Ion: 75 Resp: 200582

Ion Ratio Lower Upper

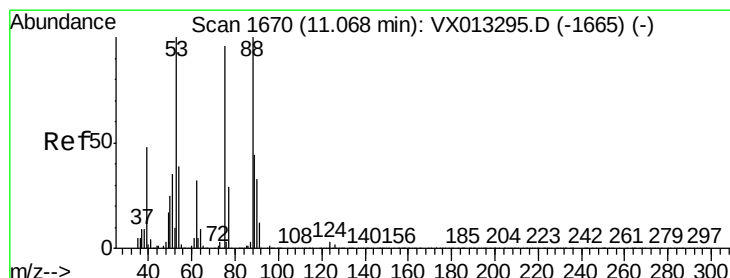
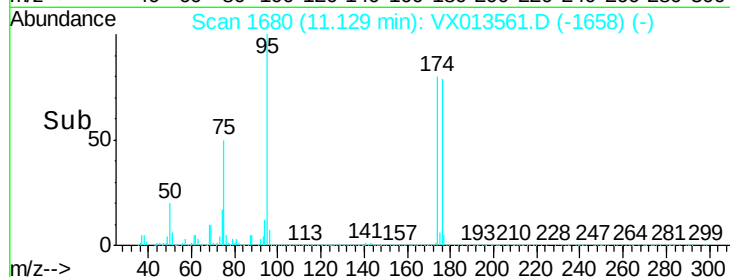
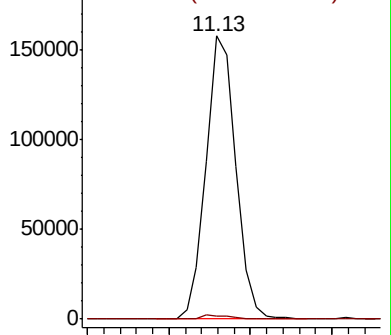
75 100

77 1.2 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: 60.331 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013561.D

Acq: 23 Nov 2019 02:49

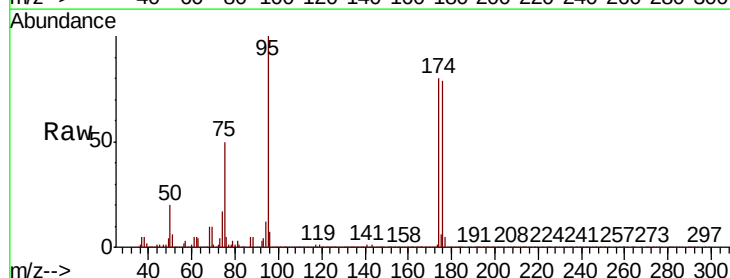
Tgt Ion: 75 Resp: 200582

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.2 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

