

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012820\
 Data File : VX014744.D
 Acq On : 28 Jan 2020 12:17
 Operator : JC/SP
 Sample : L1245-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

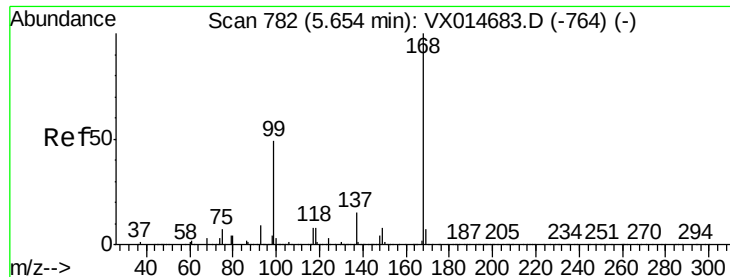
Quant Time: Jan 28 23:17:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	440066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	681745	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	618682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	280322	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	259293	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
35) Dibromofluoromethane	5.49	113	123462	28.70	ug/l	0.00
Spiked Amount			Recovery	=	57.40%	
50) Toluene-d8	8.71	98	822056	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	11.13	95	274323	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	275	0.577	ug/l	78
3) Chloromethane	1.32	50	2178	0.366	ug/l #	67
5) Bromomethane	1.65	94	1363	0.312	ug/l #	80
6) Chloroethane	1.72	64	621	Below Cal	#	63
10) Methyl Iodide	2.51	142	2097	0.363	ug/l #	52
11) Tert butyl alcohol	3.01	59	583	0.505	ug/l #	1
13) Acrolein	2.28	56	648	0.712	ug/l #	69
15) Acrylonitrile	3.14	53	705	0.264	ug/l #	35
16) Acetone	2.43	43	47227	16.908	ug/l	100
17) Carbon Disulfide	2.56	76	3877	0.324	ug/l #	91
20) Methylene Chloride	2.85	84	13181	2.529	ug/l	95
21) trans-1,2-Dichloroethene	3.17	96	1039	0.216	ug/l #	44
25) 2-Butanone	4.67	43	12926	3.203	ug/l #	79
29) Tetrahydrofuran	5.12	42	1024	0.428	ug/l #	58
36) 1,1-Dichloropropene	5.65	75	30267	4.778	ug/l #	49
38) Carbon Tetrachloride	5.65	117	38240	6.321	ug/l #	14
41) Methacrylonitrile	5.04	41	219	Below Cal	#	1
49) 1,4-Dioxane	7.72	88	403	3.349	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1527	0.204	ug/l #	78
56) Ethyl methacrylate	9.18	69	555	1.849	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	135791	20.821	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	135791	59.252	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.64	180	1668	0.274	ug/l	82
95) Naphthalene	13.83	128	3267	1.095	ug/l #	75

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

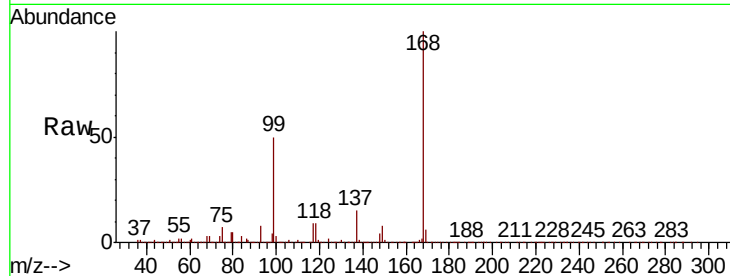


#1

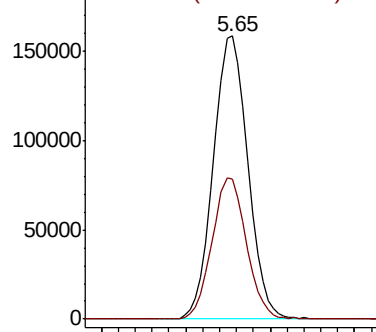
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: VX014744.D
 Acq: 28 Jan 2020 12:17

Instrument :
 MSVOA_X
 ClientSampleId :

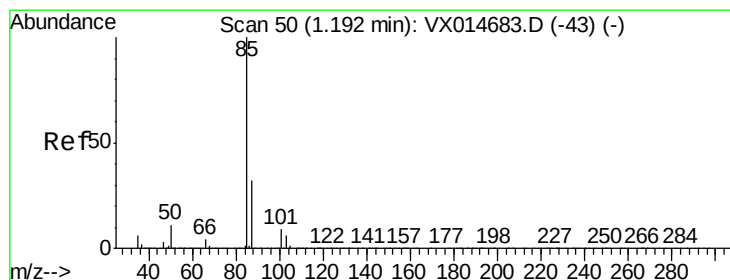
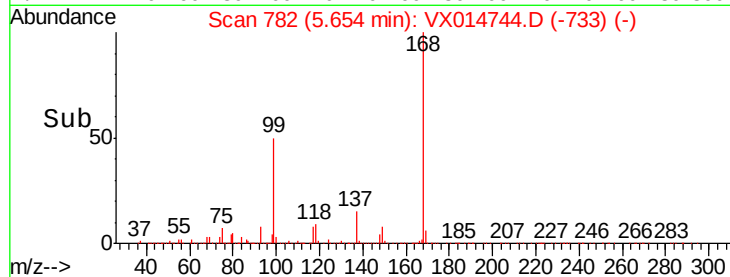
Tot Ion:168 Resp: 440066
 Ion Ratio Lower Upper
 168 100
 99 49.4 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



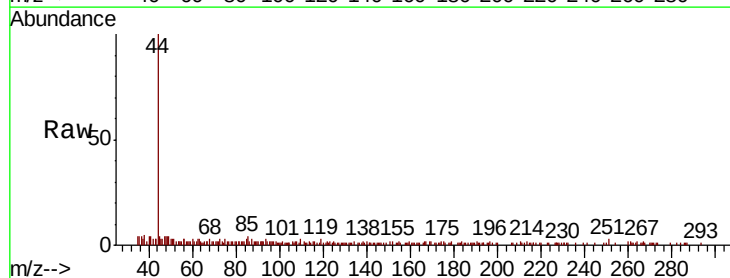
Time-->



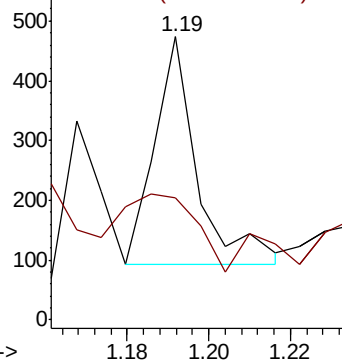
#2

Dichlorodifluoromethane
 Concen: 0.577 ug/l
 RT: 1.19 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VX014744.D
 Acq: 28 Jan 2020 12:17

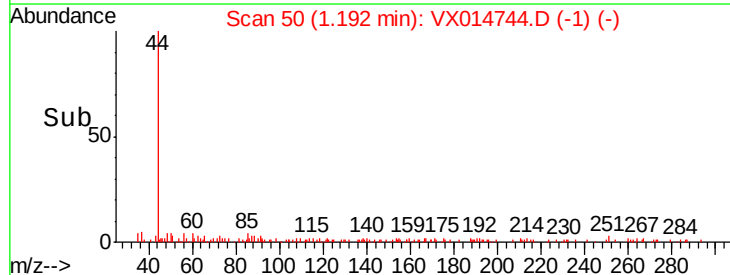
Tgt Ion: 85 Resp: 275
 Ion Ratio Lower Upper
 85 100
 87 20.3 16.2 48.5

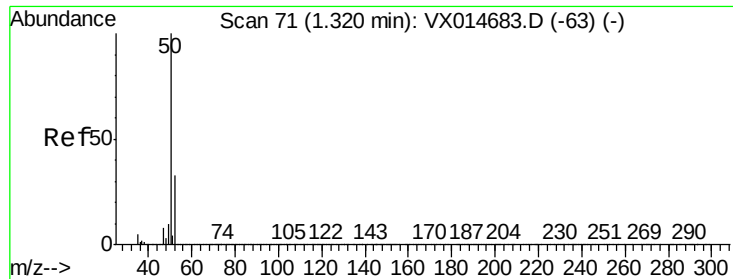


Abundance Ion 84.90 (84.60 to 85.60): VX0
 Ion 86.90 (86.60 to 87.60): VX0



Time-->





#3

Chloromethane

Concen: 0.366 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

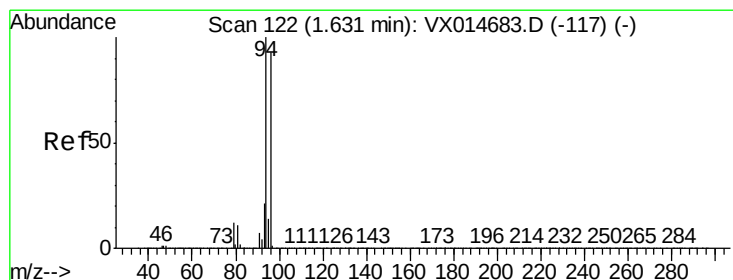
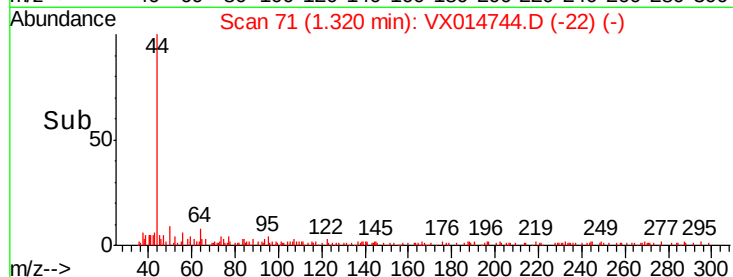
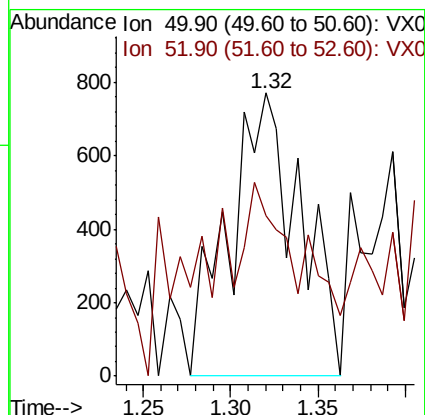
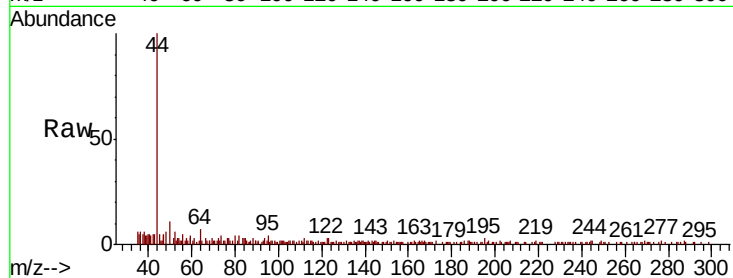
ClientSampleId :

Tot Ion: 50 Resp: 2178

Ion Ratio Lower Upper

50 100

52 51.4 26.2 39.2#



#5

Bromomethane

Concen: 0.312 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014744.D

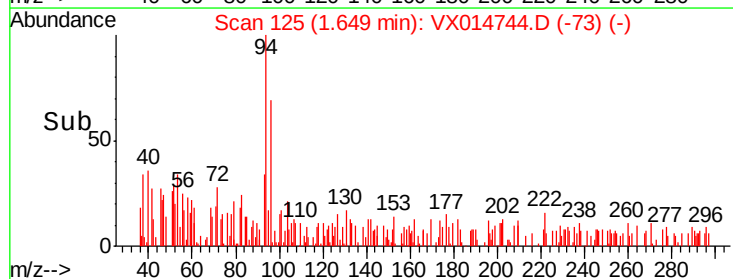
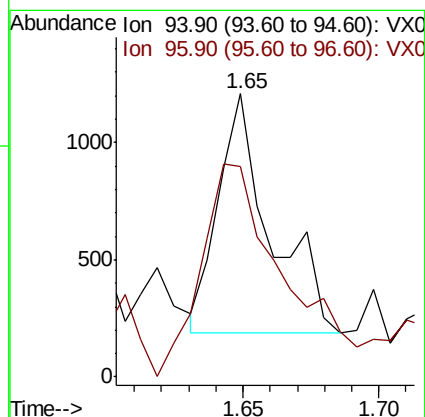
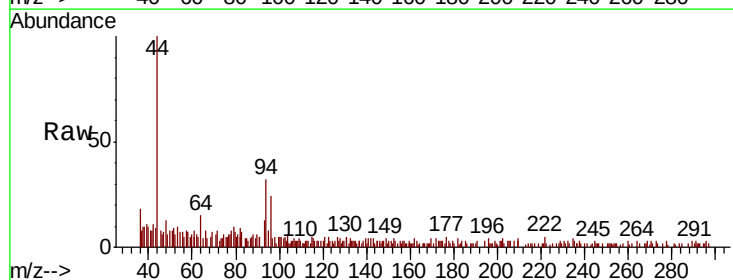
Acq: 28 Jan 2020 12:17

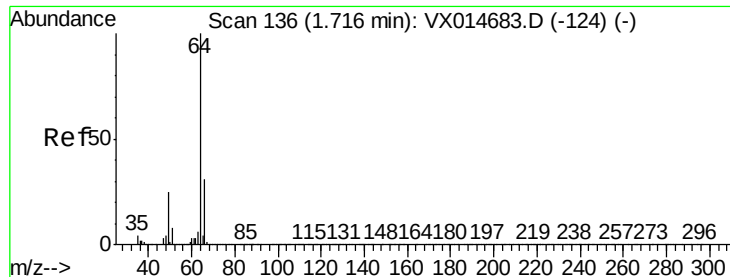
Tgt Ion: 94 Resp: 1363

Ion Ratio Lower Upper

94 100

96 74.6 74.7 112.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

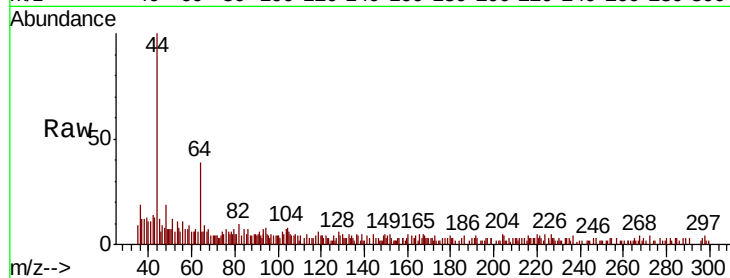
ClientSampled :

Tot Ion: 64 Resp: 621

Ion Ratio Lower Upper

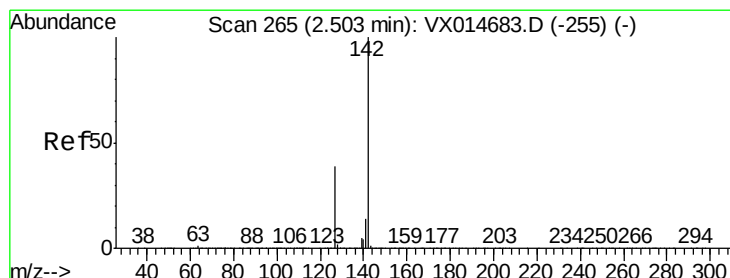
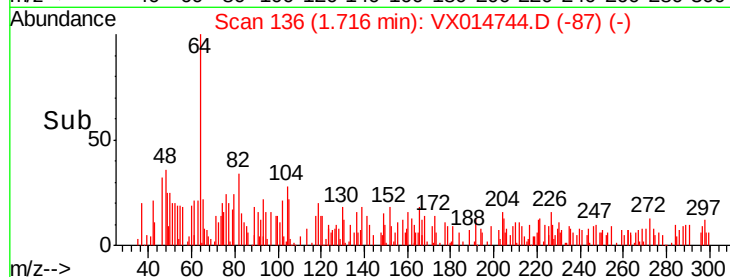
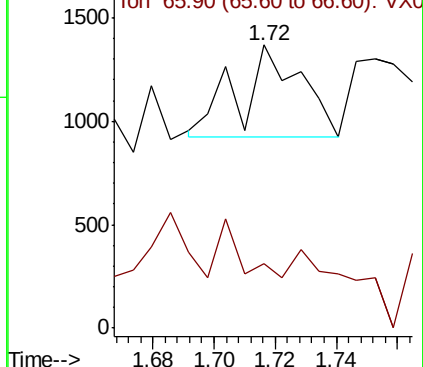
64 100

66 11.3 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.363 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

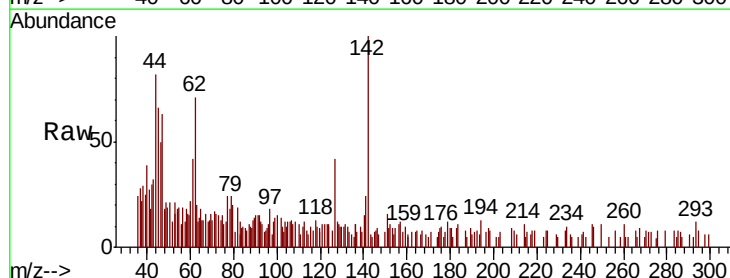
Tgt Ion: 142 Resp: 2097

Ion Ratio Lower Upper

142 100

127 75.9 31.1 46.7#

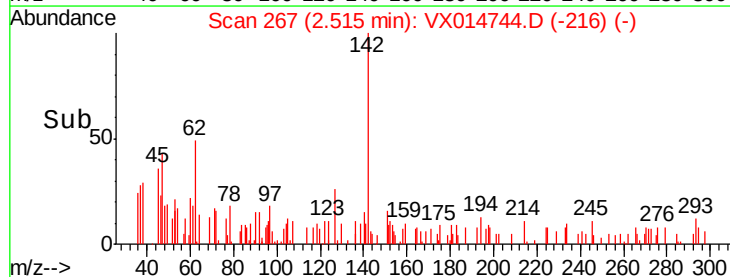
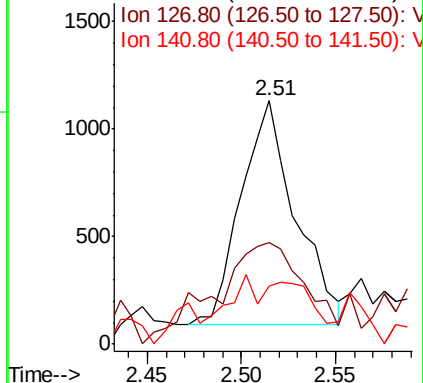
141 9.3 11.3 16.9#

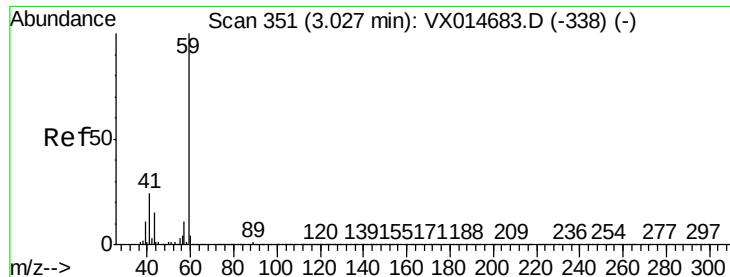


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



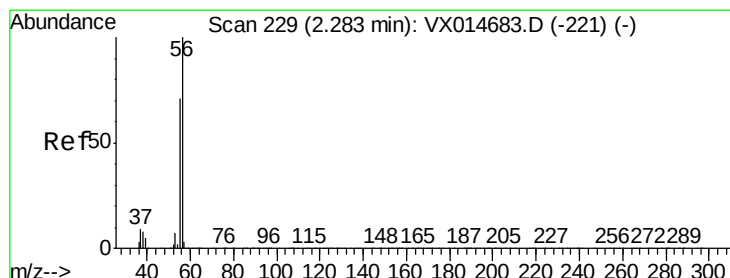
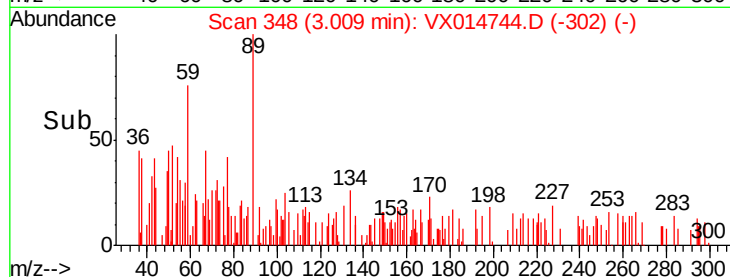
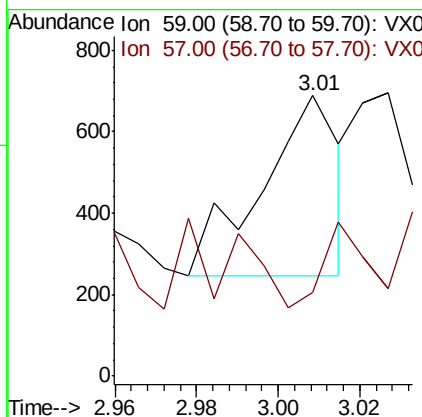
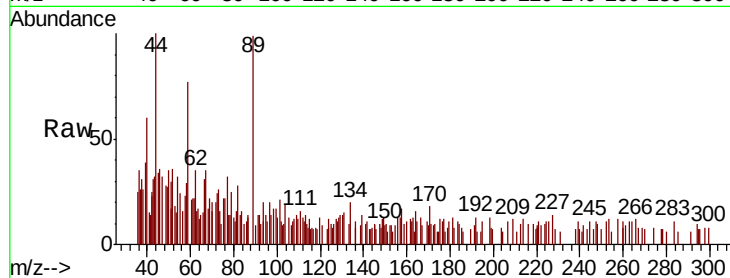


#11

Tert butyl alcohol
Concen: 0.505 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

Instrument :
MSVOA_X
ClientSampled :

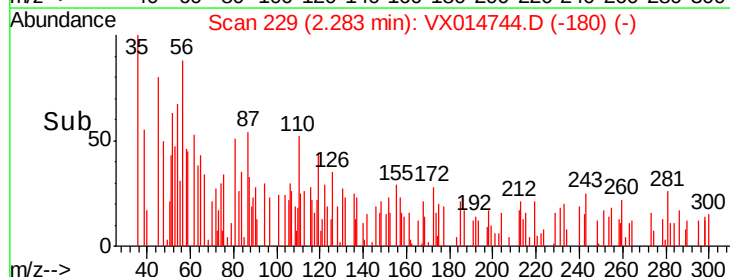
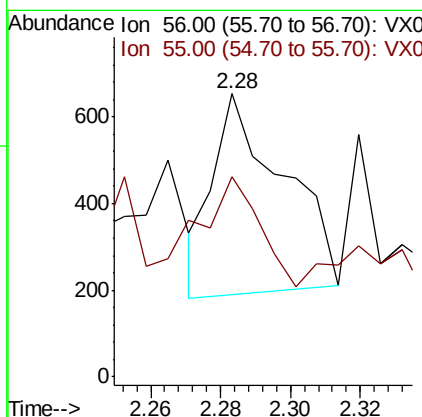
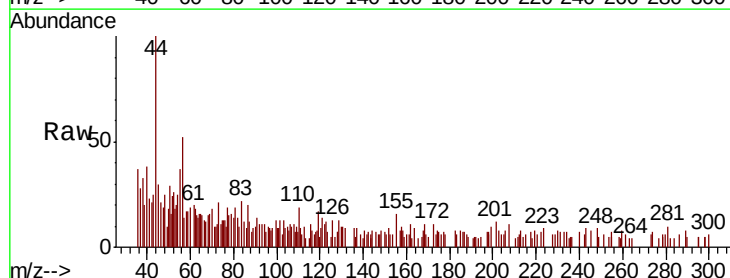
Tot Ion: 59 Resp: 583
Ion Ratio Lower Upper
59 100
57 51.6 8.3 12.5#

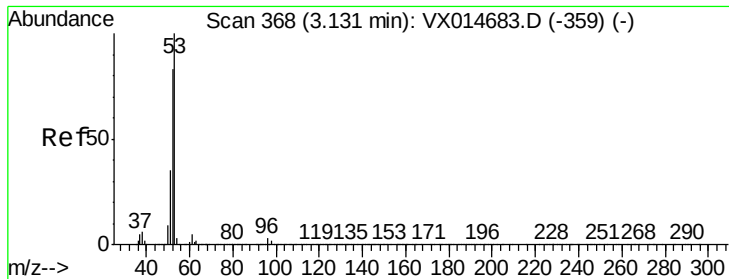


#13

Acrolein
Concen: 0.712 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

Tgt Ion: 56 Resp: 648
Ion Ratio Lower Upper
56 100
55 44.8 56.6 84.8#





#15

Acrylonitrile

Concen: 0.264 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

ClientSampled :

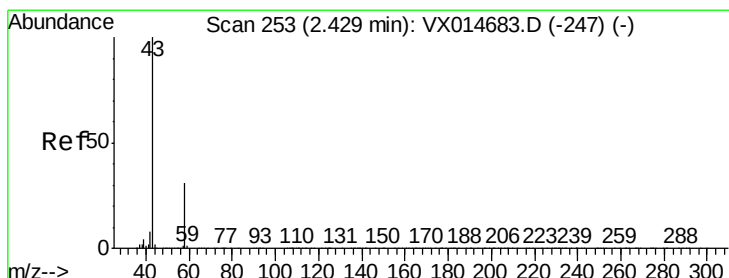
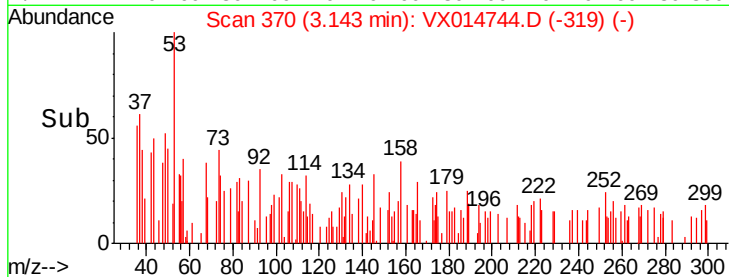
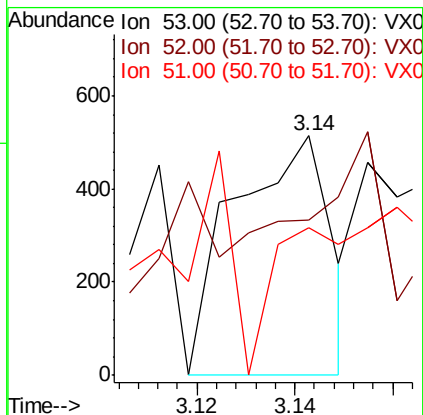
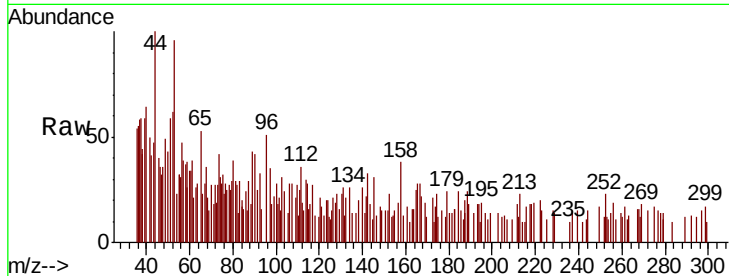
Tot Ion: 53 Resp: 705

Ion Ratio Lower Upper

53 100

52 51.6 66.4 99.6#

51 114.9 28.7 43.1#



#16

Acetone

Concen: 16.908 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014744.D

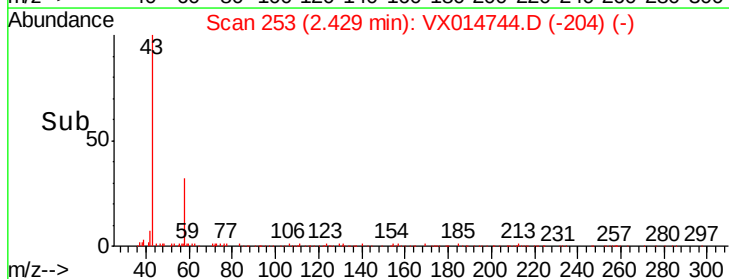
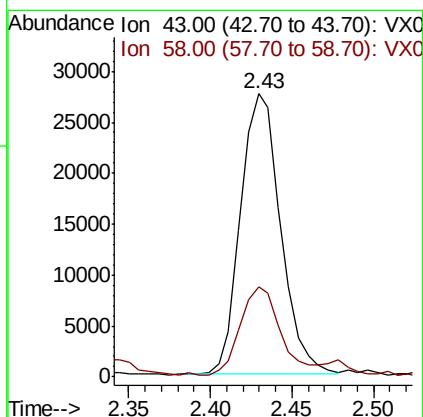
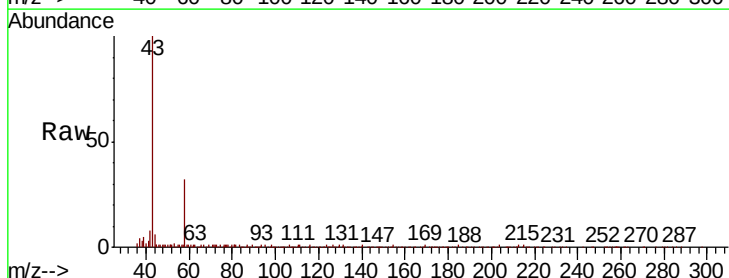
Acq: 28 Jan 2020 12:17

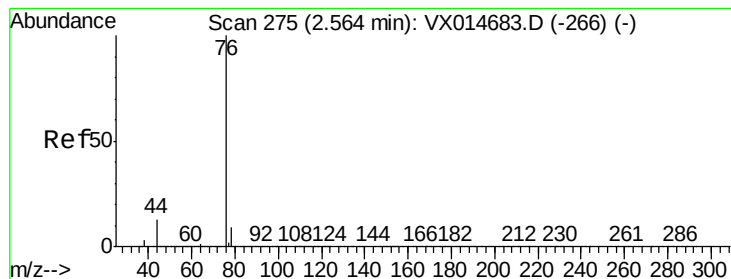
Tgt Ion: 43 Resp: 47227

Ion Ratio Lower Upper

43 100

58 30.5 24.5 36.7





#17

Carbon Disulfide

Concen: 0.324 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

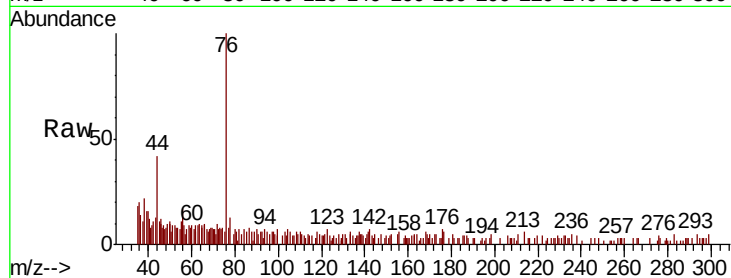
ClientSampled :

Tot Ion: 76 Resp: 3877

Ion Ratio Lower Upper

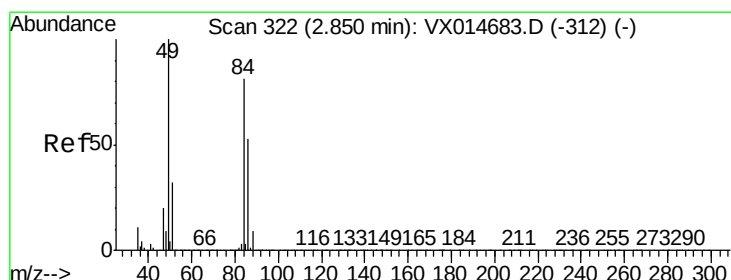
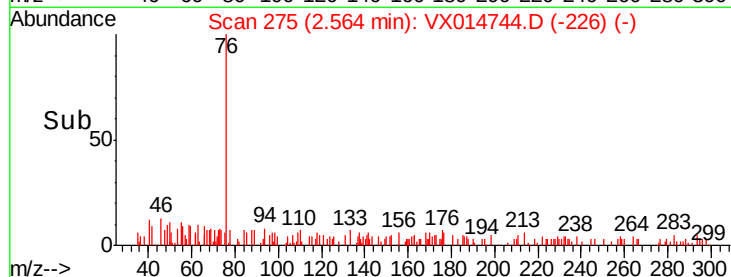
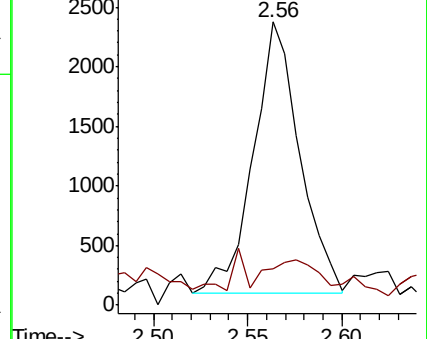
76 100

78 5.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 2.529 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Tgt Ion: 84 Resp: 13181

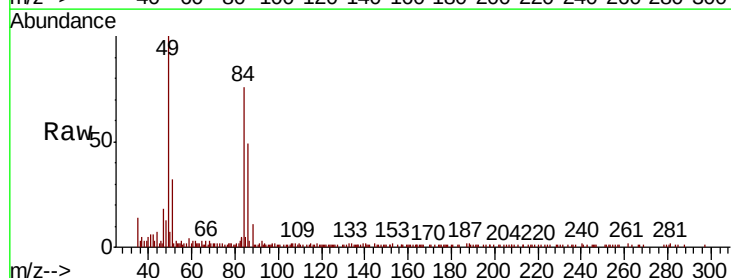
Ion Ratio Lower Upper

84 100

49 132.9 98.2 147.4

51 40.5 31.3 46.9

86 64.3 51.8 77.6

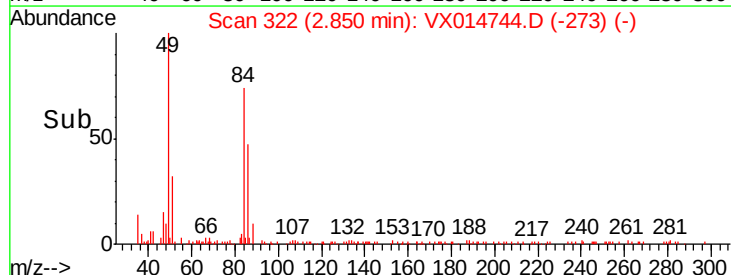
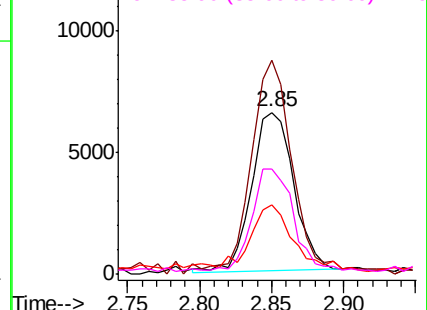


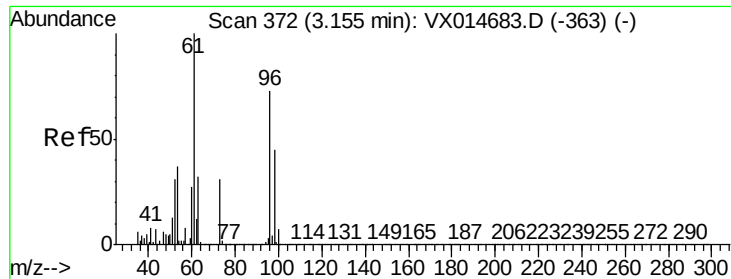
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#21

trans-1,2-Dichloroethene

Concen: 0.216 ug/l

RT: 3.17 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :
MSVOA_X
ClientSampled :

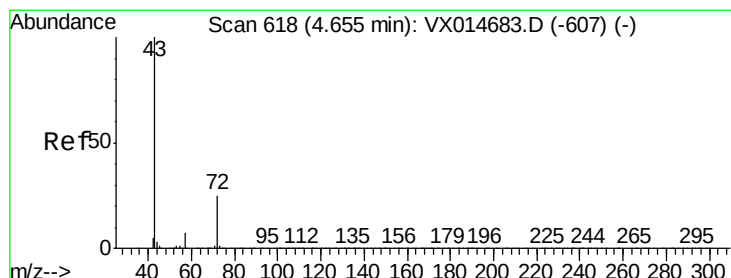
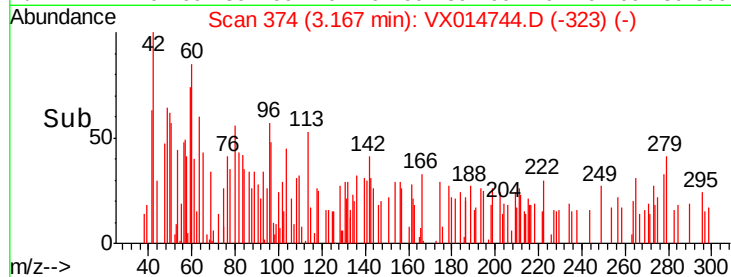
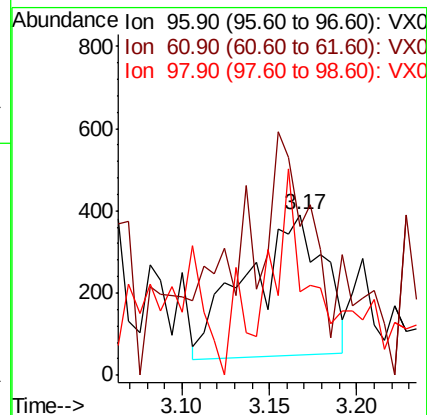
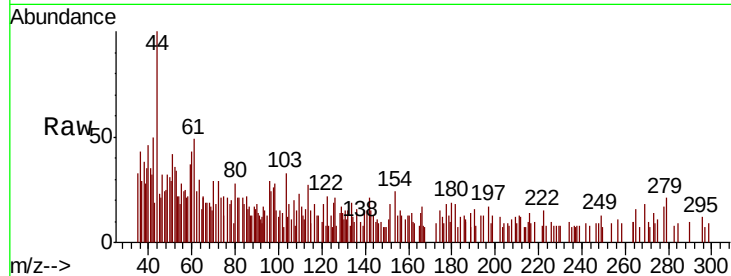
Tot Ion: 96 Resp: 1039

Ion Ratio Lower Upper

96 100

61 70.6 109.8 164.6#

98 18.8 49.6 74.4#



#25

2-Butanone

Concen: 3.203 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014744.D

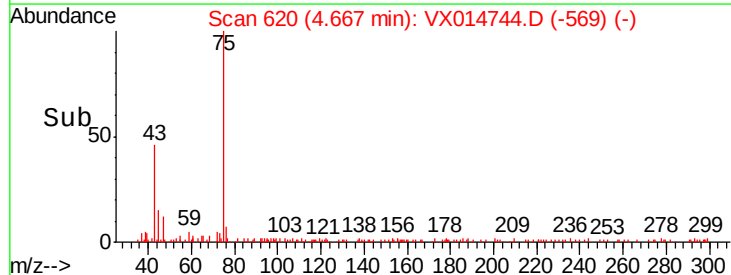
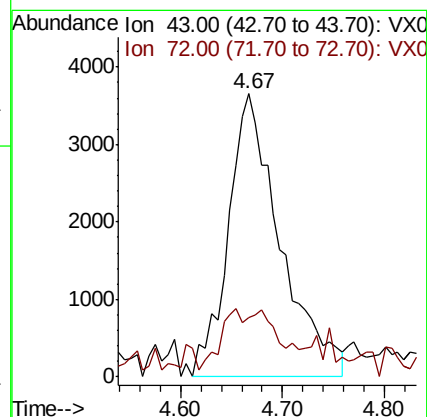
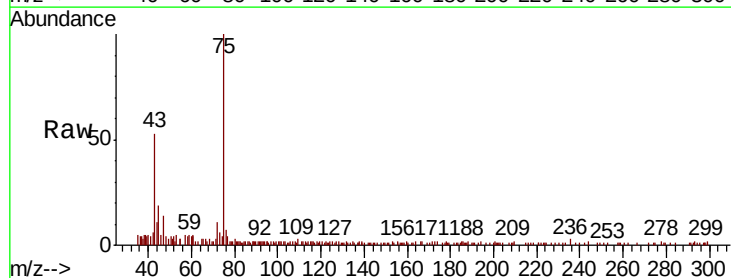
Acq: 28 Jan 2020 12:17

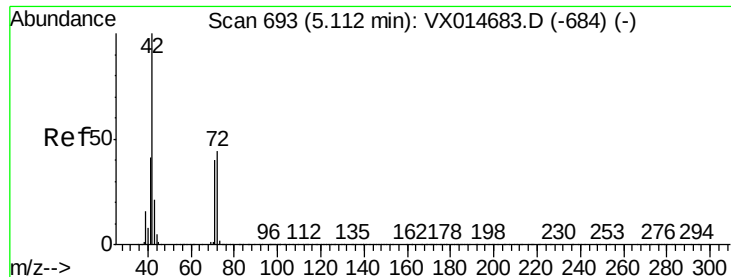
Tgt Ion: 43 Resp: 12926

Ion Ratio Lower Upper

43 100

72 14.3 19.9 29.9#





#29

Tetrahydrofuran

Concen: 0.428 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

ClientSampleId :

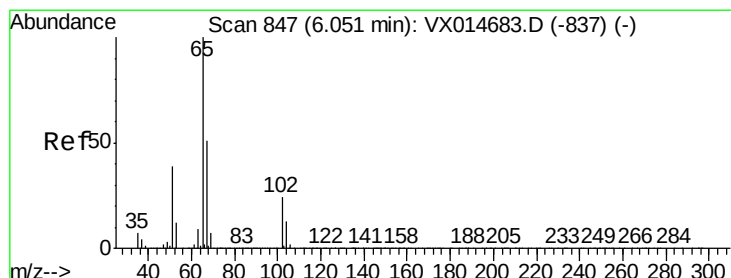
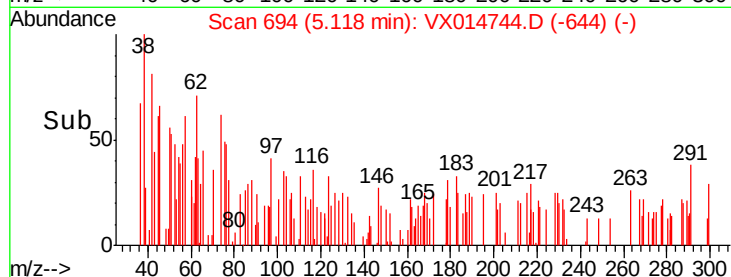
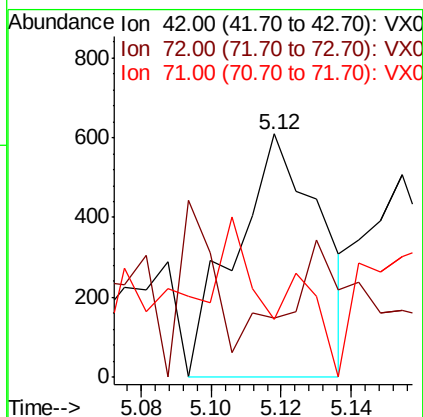
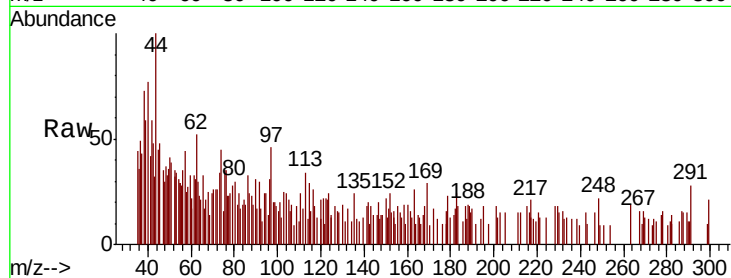
Tot Ion: 42 Resp: 1024

Ion Ratio Lower Upper

42 100

72 0.0 35.3 52.9#

71 50.9 33.1 49.7#



#33

1,2-Dichloroethane-d4

Concen: 50.457 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014744.D

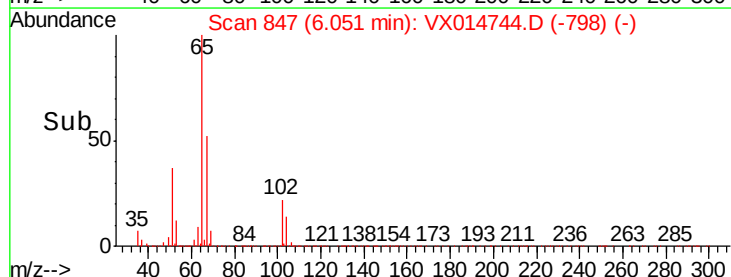
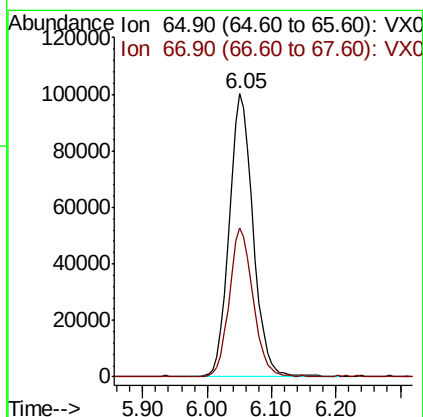
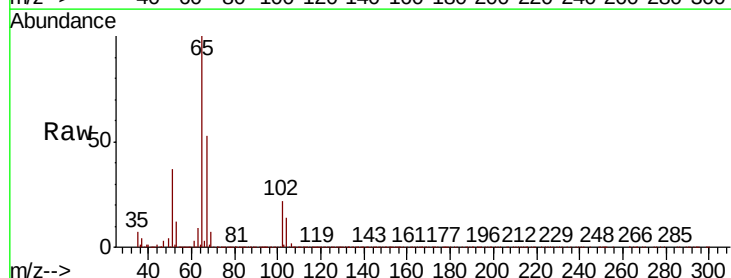
Acq: 28 Jan 2020 12:17

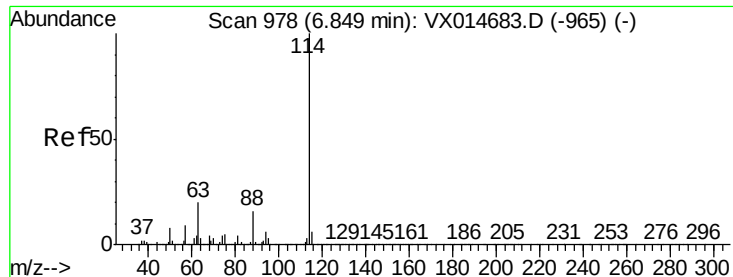
Tgt Ion: 65 Resp: 259293

Ion Ratio Lower Upper

65 100

67 52.1 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014744.D

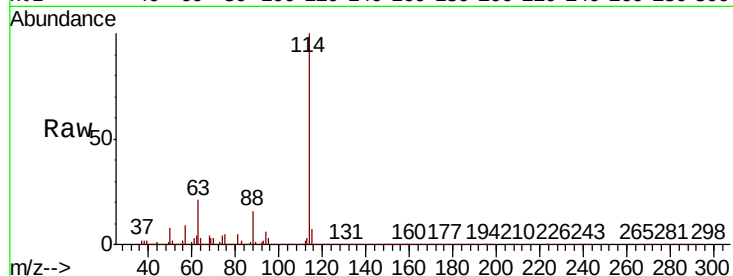
Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

ClientSampleId :

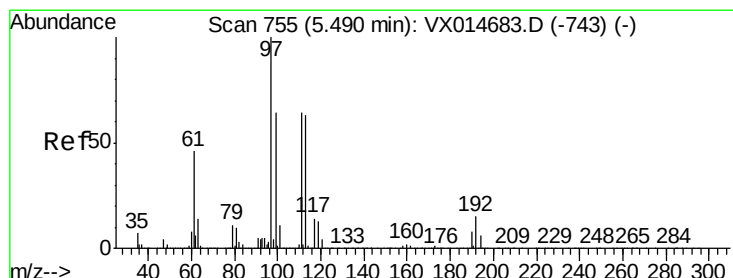
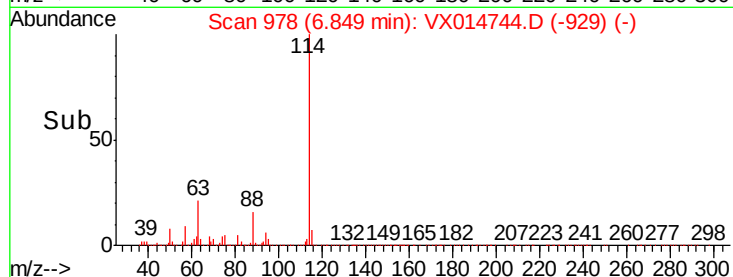
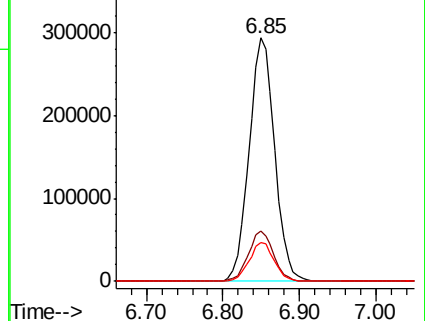
Tot Ion:	114	Resp:	681745
Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	15.7	0.0	31.2



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: 28.700 ug/l

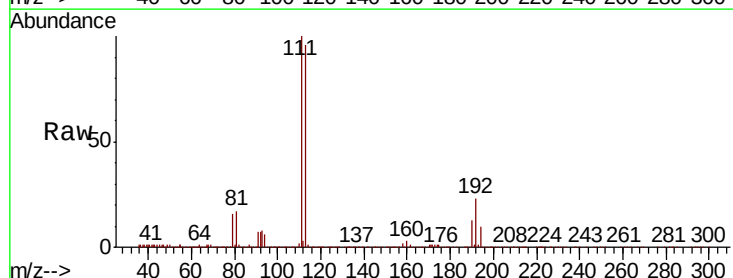
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

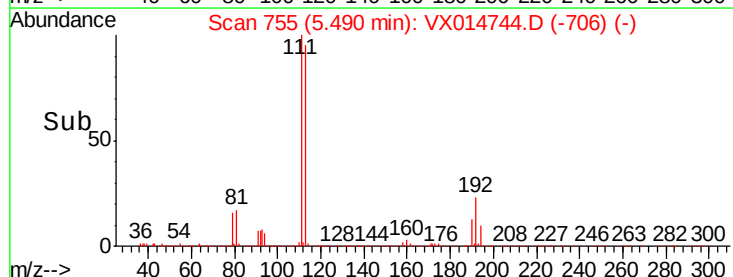
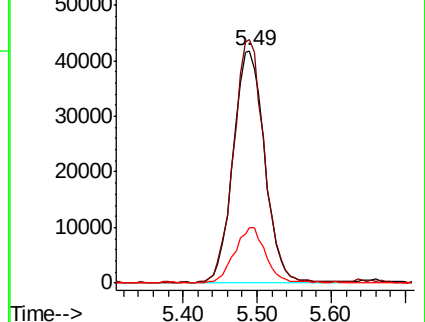
Tgt Ion:	113	Resp:	123462
Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.7	121.1
192	23.8	18.5	27.7

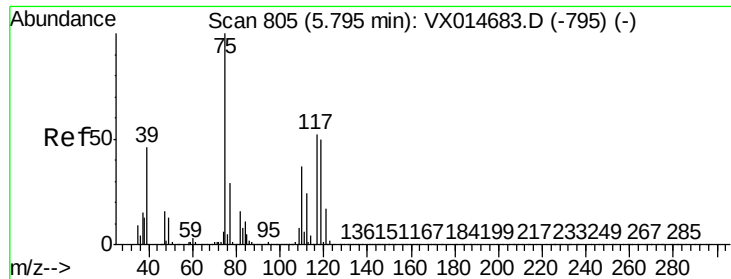


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

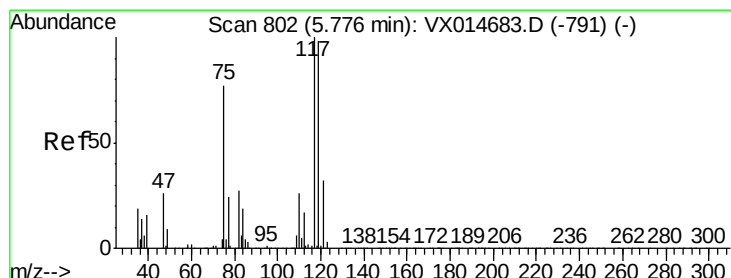
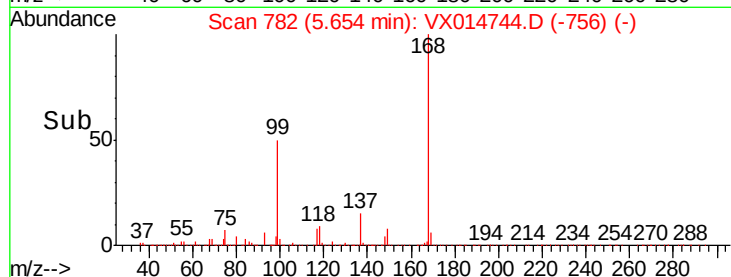
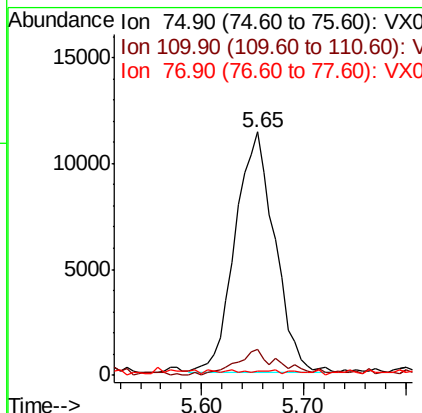
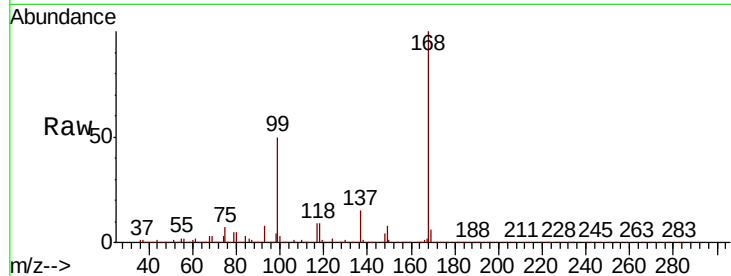




#36
 1,1-Dichloropropene
 Concen: 4.778 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014744.D
 Acq: 28 Jan 2020 12:17

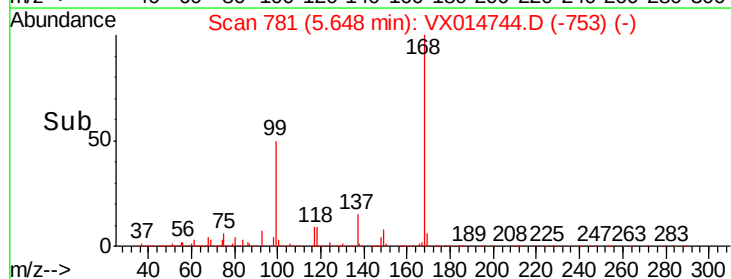
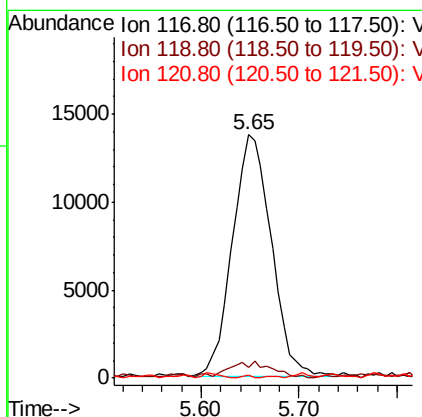
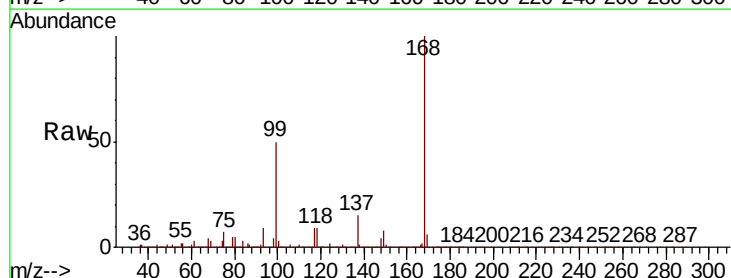
Instrument :
 MSVOA_X
 ClientSampleId :

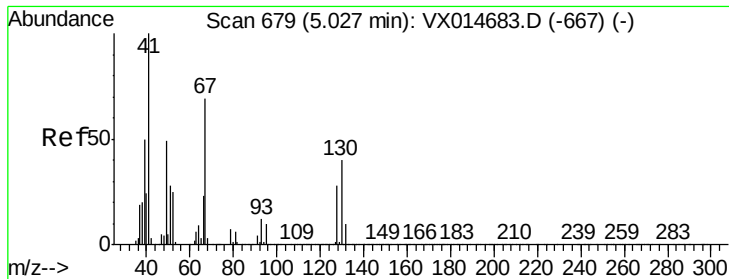
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.9	53.7#
77	0.0	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 6.321 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014744.D
 Acq: 28 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	77.9	116.9#
121	0.0	25.4	38.2#





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.04 min Scan# 682

Delta R.T. 0.02 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 41 Resp: 219

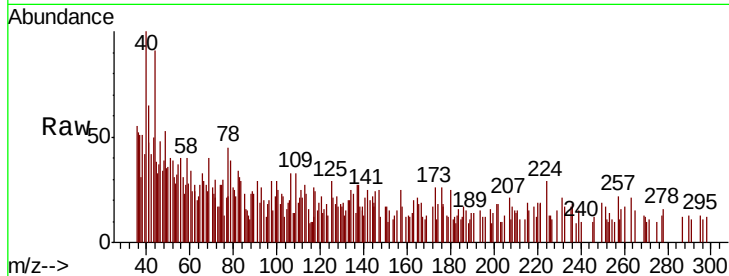
Ion Ratio Lower Upper

41 100

39 331.1 42.2 63.2#

67 115.5 55.4 83.0#

52 97.3 22.1 33.1#

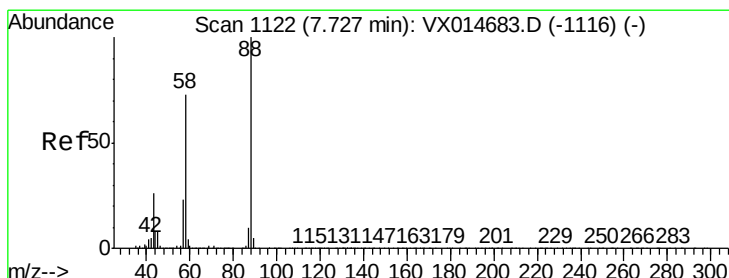
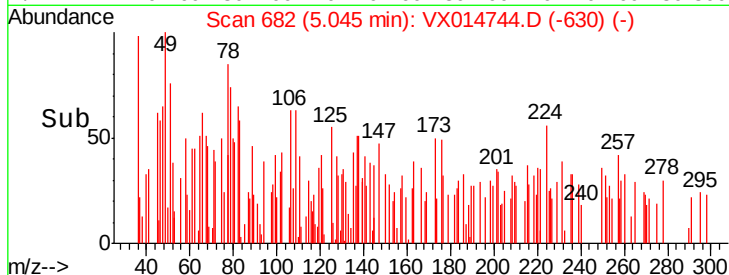
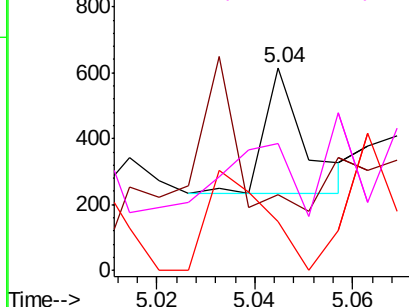


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#49

1,4-Dioxane

Concen: 3.349 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

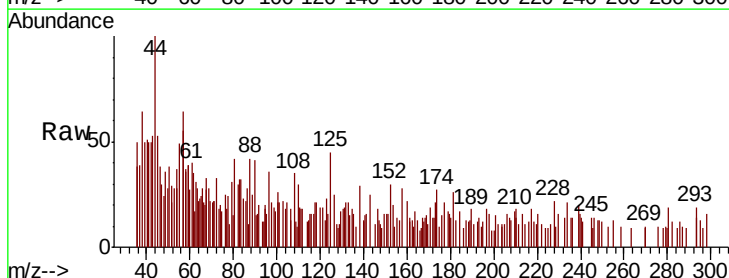
Tgt Ion: 88 Resp: 403

Ion Ratio Lower Upper

88 100

43 169.2 26.2 39.2#

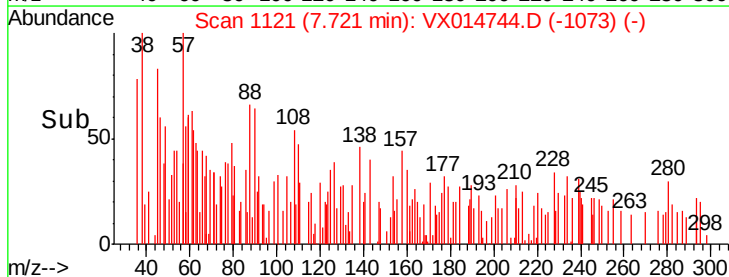
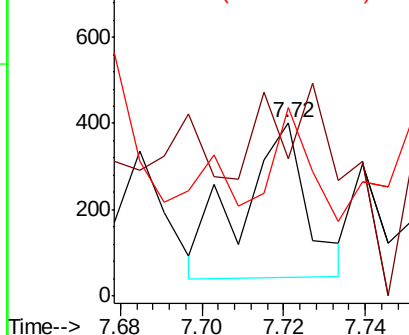
58 40.2 56.6 85.0#

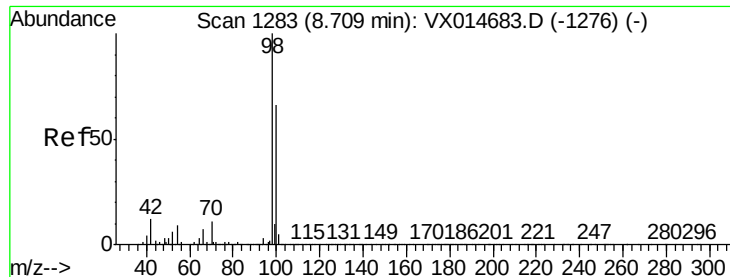


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

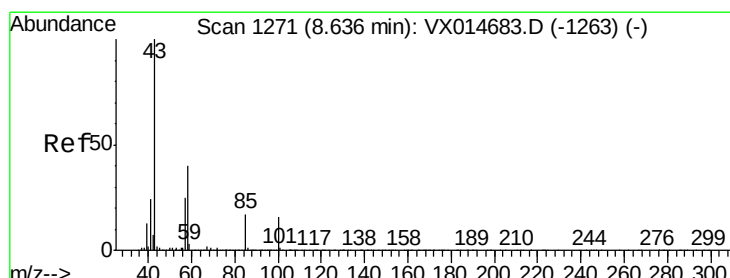
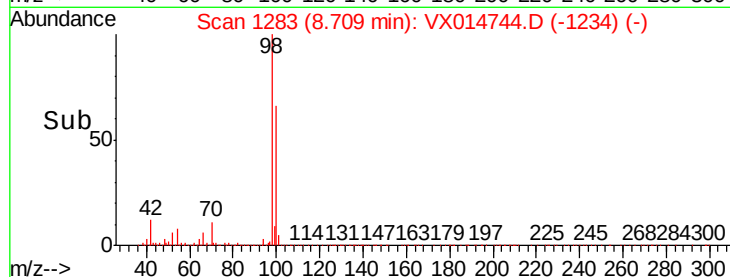
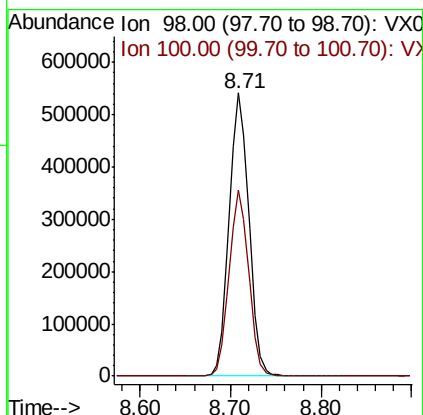
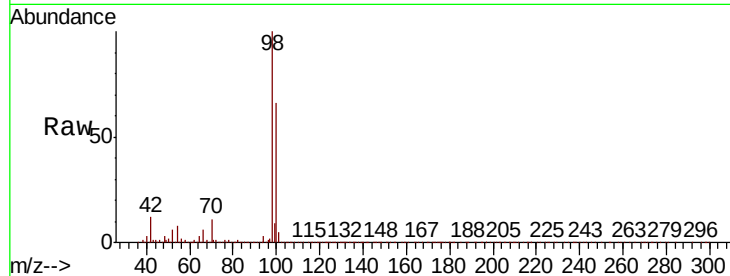




#50
Toluene-d8
Concen: 49.708 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

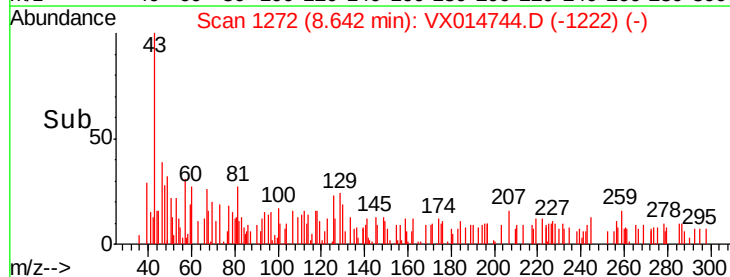
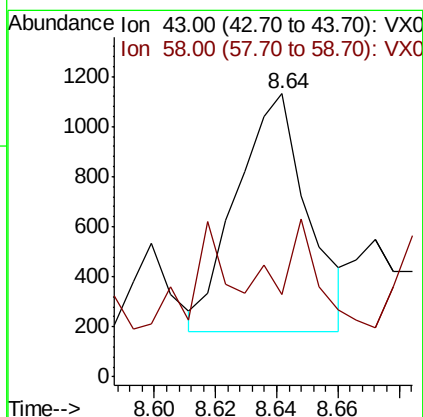
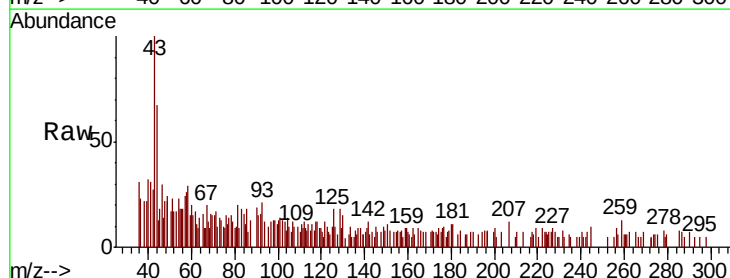
Instrument :
MSVOA_X
ClientSampleId :

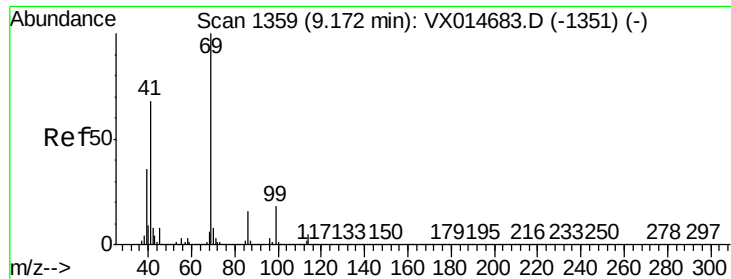
Tot Ion: 98 Resp: 822056
Ion Ratio Lower Upper
98 100
100 65.1 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 0.204 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

Tgt Ion: 43 Resp: 1527
Ion Ratio Lower Upper
43 100
58 26.2 31.6 47.4#

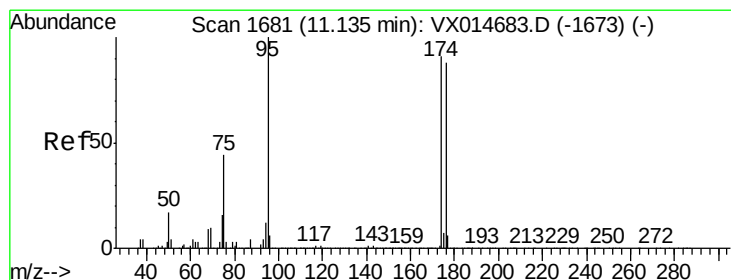
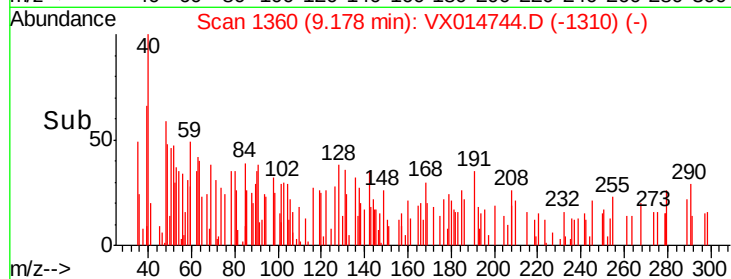
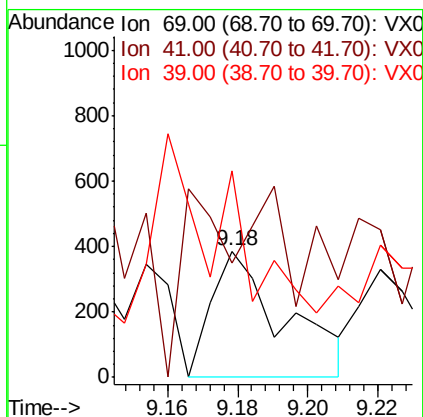
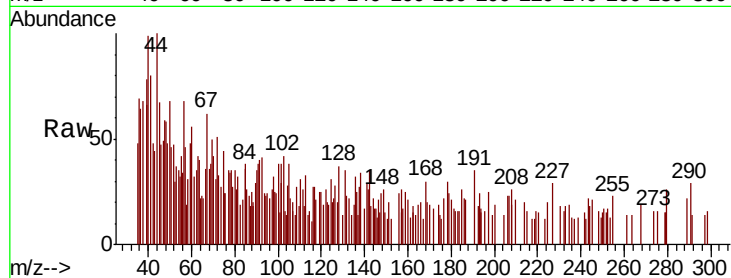




#56
Ethyl methacrylate
Concen: 1.849 ug/l
RT: 9.18 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

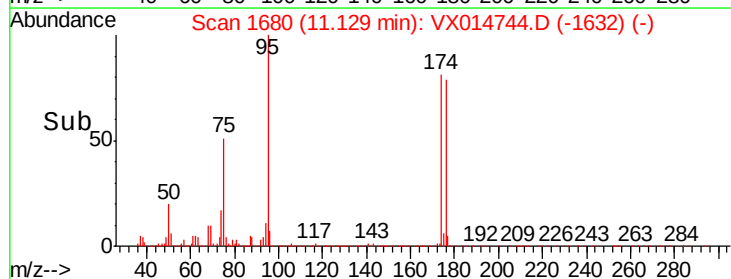
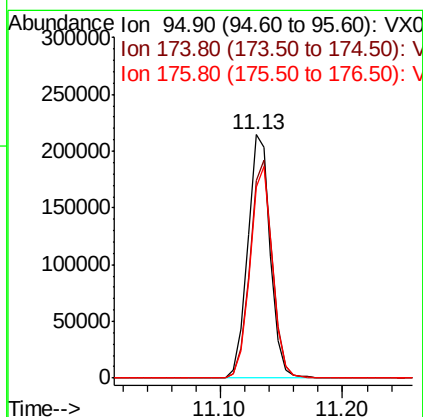
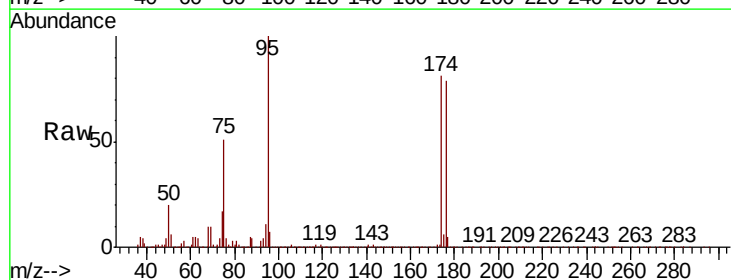
Instrument :
MSVOA_X
ClientSampleId :

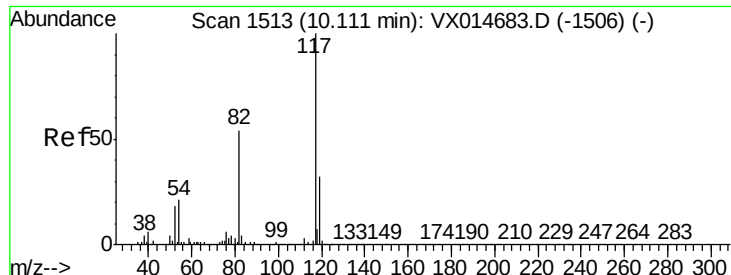
Tot Ion: 69 Resp: 555
Ion Ratio Lower Upper
69 100
41 93.3 54.9 82.3#
39 83.6 29.3 43.9#



#62
4-Bromofluorobenzene
Concen: 46.566 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

Tgt Ion: 95 Resp: 274323
Ion Ratio Lower Upper
95 100
174 89.5 0.0 176.0
176 87.2 0.0 172.2

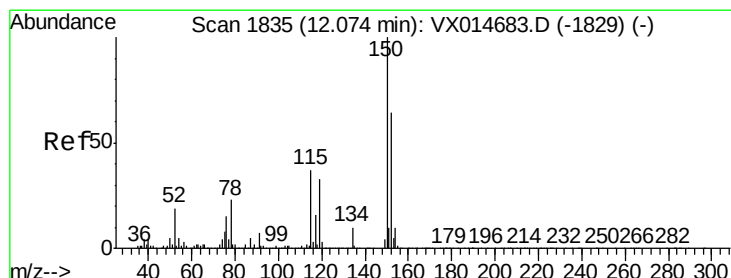
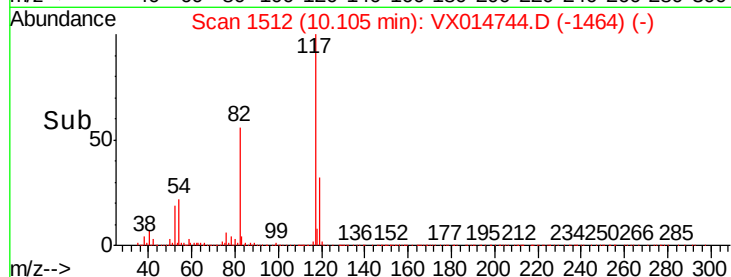
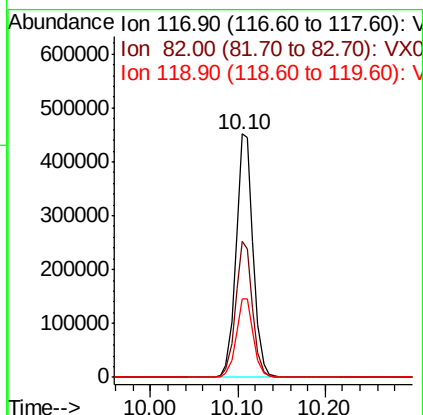
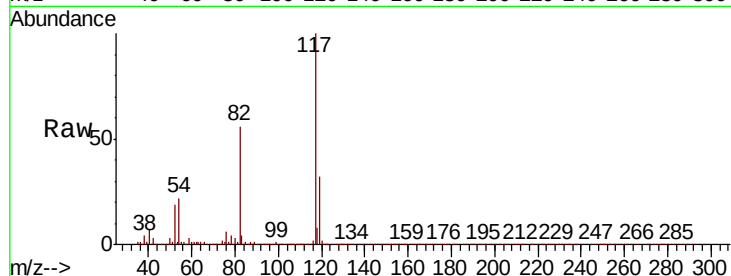




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

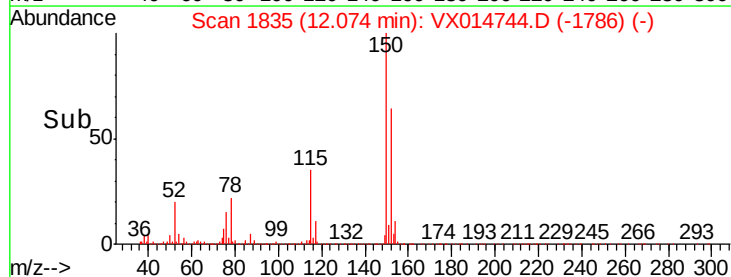
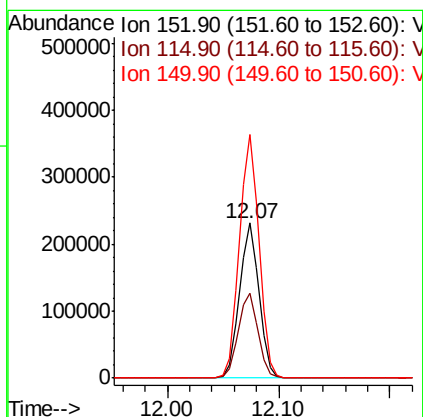
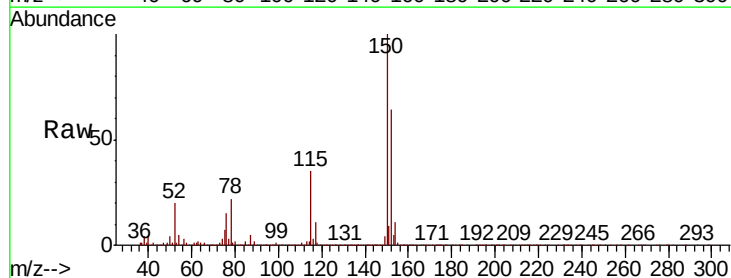
Instrument :
MSVOA_X
ClientSampleId :

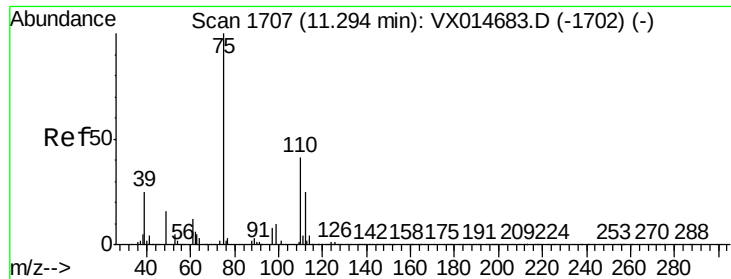
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.2	64.8
119	32.2	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014744.D
Acq: 28 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	39.4	118.1
150	158.0	0.0	351.2





#76

1,2,3-Trichloropropane

Concen: 20.821 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

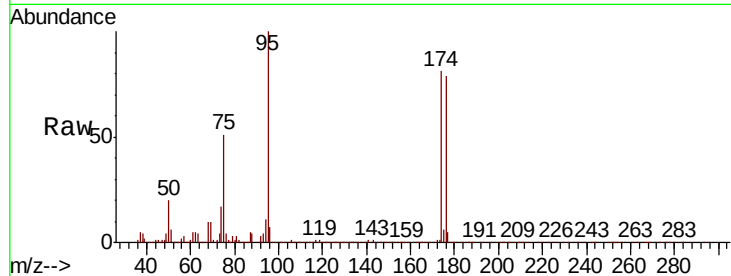
ClientSampleId :

Tot Ion: 75 Resp: 135791

Ion Ratio Lower Upper

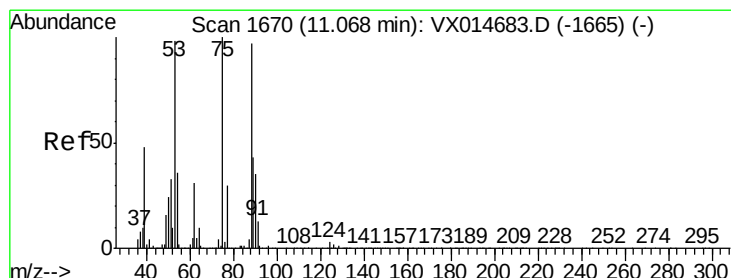
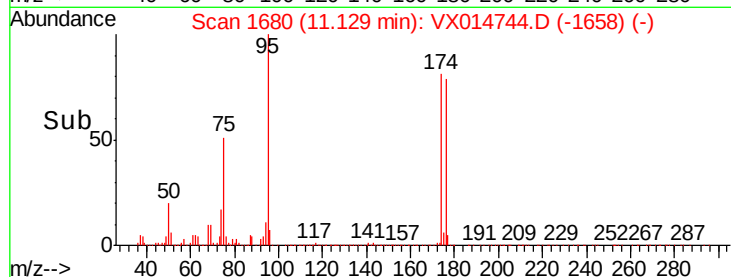
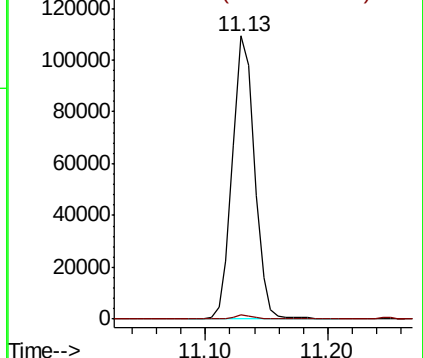
75 100

77 1.6 18.7 56.1#



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: 59.252 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

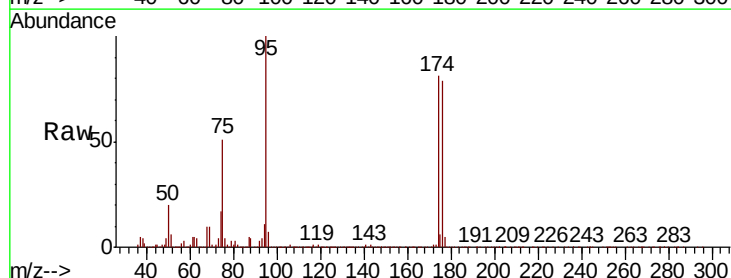
Tgt Ion: 75 Resp: 135791

Ion Ratio Lower Upper

75 100

53 0.2 78.8 118.2#

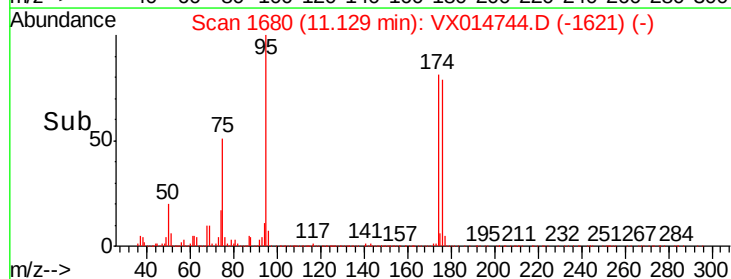
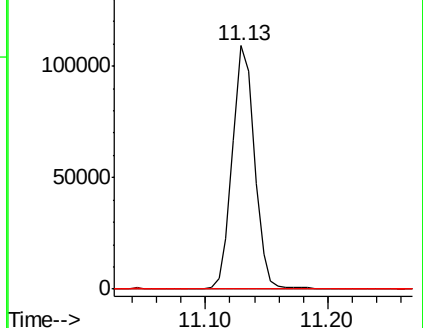
89 0.0 35.4 53.0#

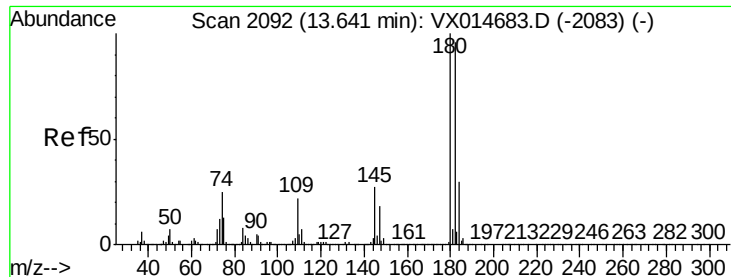


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.274 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

Instrument :

MSVOA_X

ClientSampleId :

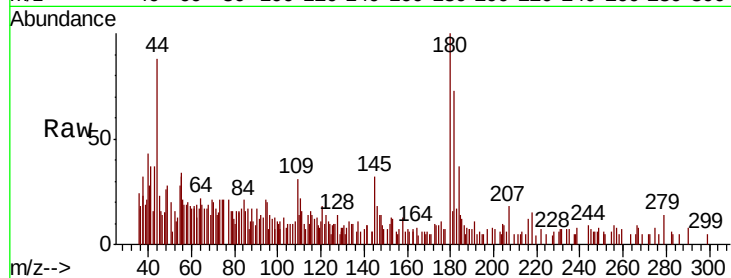
Tot Ion:180 Resp: 1668

Ion Ratio Lower Upper

180 100

182 75.5 48.5 145.6

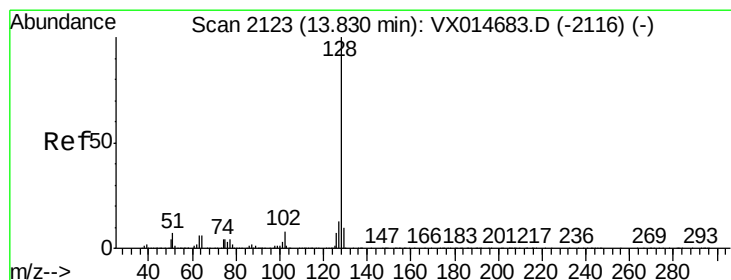
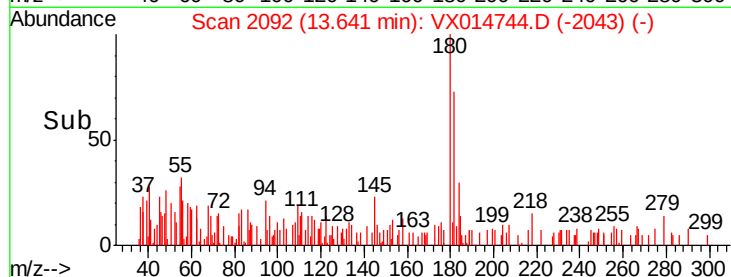
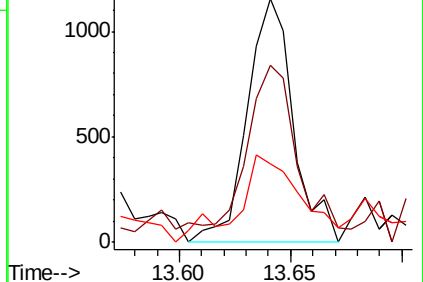
145 29.4 14.0 41.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.095 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014744.D

Acq: 28 Jan 2020 12:17

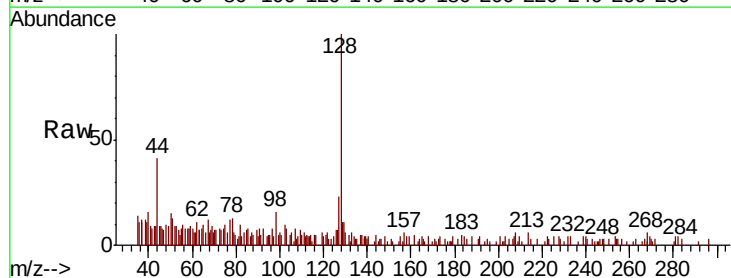
Tgt Ion:128 Resp: 3267

Ion Ratio Lower Upper

128 100

127 14.8 10.3 15.5

129 29.3 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

