

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\
 Data File : VX013209.D
 Acq On : 24 Oct 2019 14:19
 Operator : JC/SP
 Sample : K5532-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0670

Quant Time: Oct 25 01:20:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	81139	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	117443	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	117391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	74382	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	88746	52.29	ug/l	0.00
Spiked Amount			Recovery	=	104.58%	
35) Dibromofluoromethane	5.49	113	68251	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
50) Toluene-d8	8.71	98	246170	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	11.14	95	92099	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	

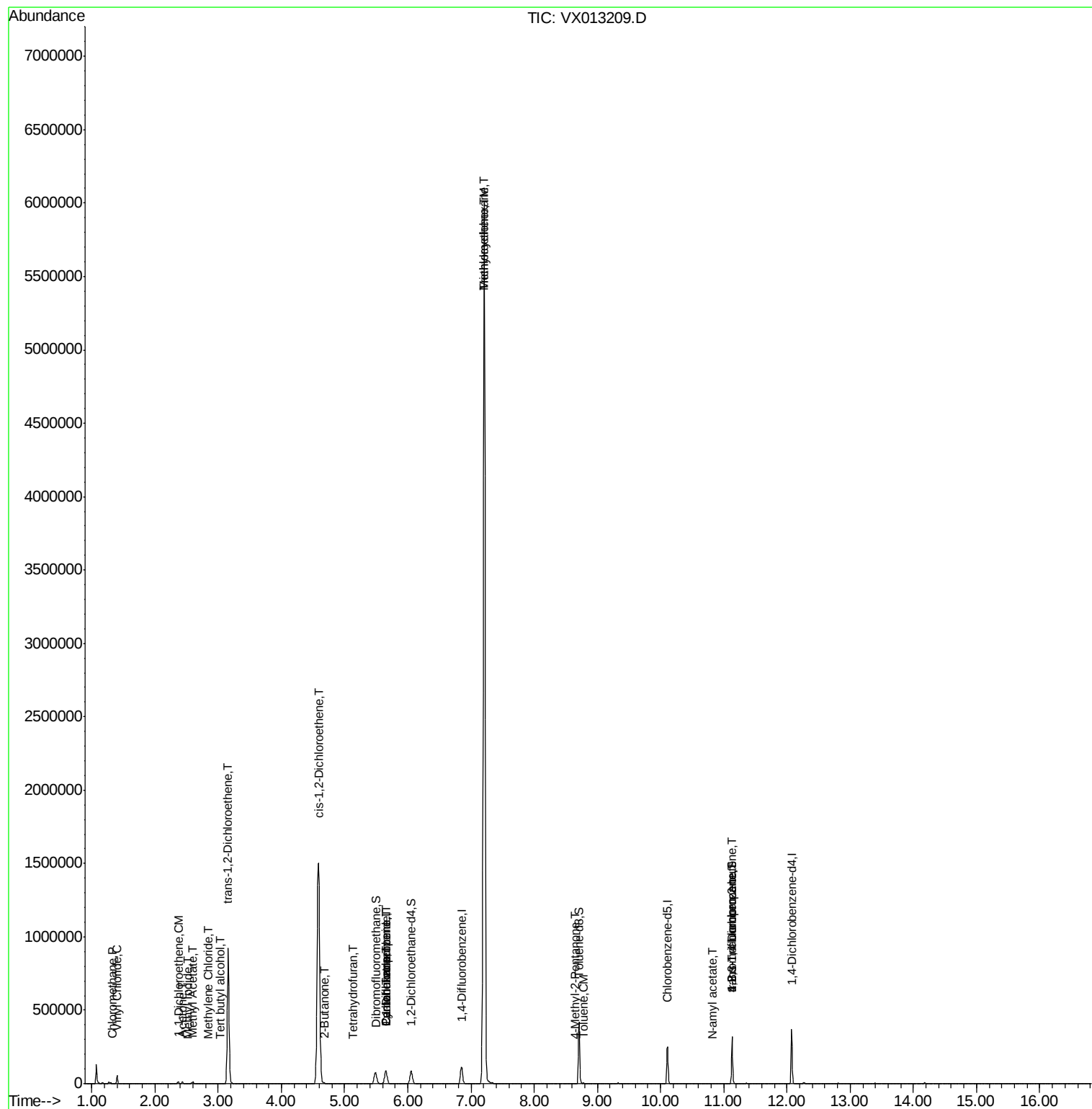
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	487	1.331	ug/l	89
4) Vinyl Chloride	1.40	62	29210	19.825	ug/l	95
6) Chloroethane	1.67	64	217	Below Cal	#	43
10) Methyl Iodide	2.51	142	117	3.600	ug/l #	65
11) Tert butyl alcohol	3.03	59	1029	1.740	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	5116	3.701	ug/l	89
16) Acetone	2.43	43	11176	13.978	ug/l	99
18) Methyl Acetate	2.59	43	3502	2.936	ug/l #	49
20) Methylene Chloride	2.84	84	371	0.535	ug/l #	83
21) trans-1,2-Dichloroethene	3.15	96	389419	268.676	ug/l	91
25) 2-Butanone	4.68	43	2324	2.167	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	1004008	593.116	ug/l	88
29) Tetrahydrofuran	5.13	42	224	0.347	ug/l #	49
31) Cyclohexane	5.65	56	1701	0.775	ug/l #	45
36) 1,1-Dichloropropene	5.65	75	5978	2.968	ug/l #	50
38) Carbon Tetrachloride	5.65	117	8756	4.034	ug/l #	13
39) Methylcyclohexane	7.21	83	26847	10.678	ug/l #	1
44) Trichloroethene	7.21	130	2324910	1388.649	ug/l	95
51) 4-Methyl-2-Pentanone	8.65	43	422	0.213	ug/l #	76
52) Toluene	8.78	92	1037	0.265	ug/l	97
64) Tetrachloroethene	9.33	164	163	Below Cal	#	76
74) N-amyl acetate	10.82	43	811	0.327	ug/l #	39
76) 1,2,3-Trichloropropane	11.13	75	44691	24.929	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	44691	68.503	ug/l #	10

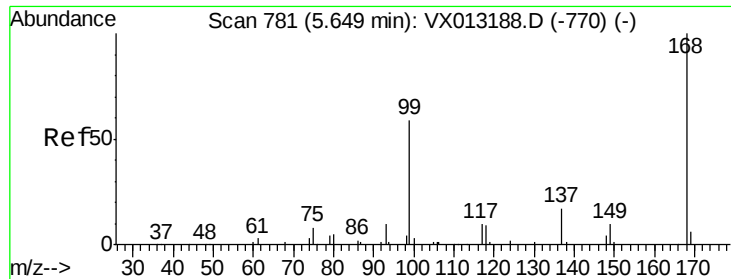
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102519\
Data File : VX013209.D
Acq On : 24 Oct 2019 14:19
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Sample : K5532-01
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ALS Vial : 11 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: Oct 25 01:20:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 24 03:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

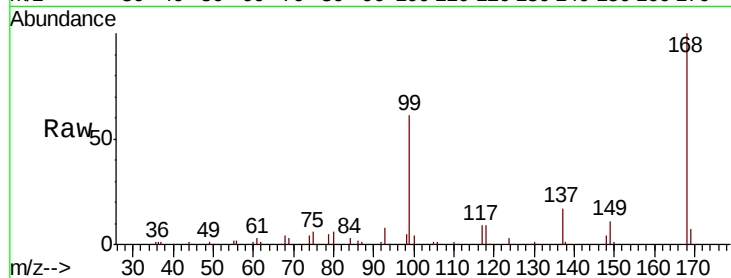
S32-0670

Tot Ion:168 Resp: 81139

Ion Ratio Lower Upper

168 100

99 60.8 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

30000

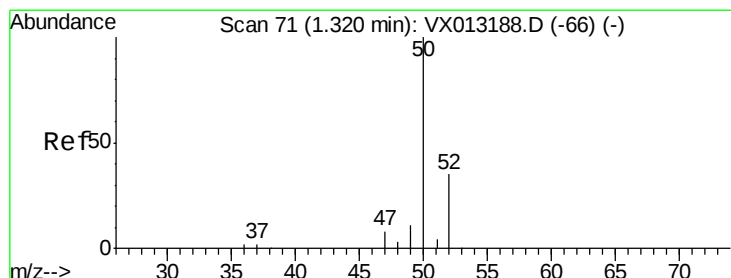
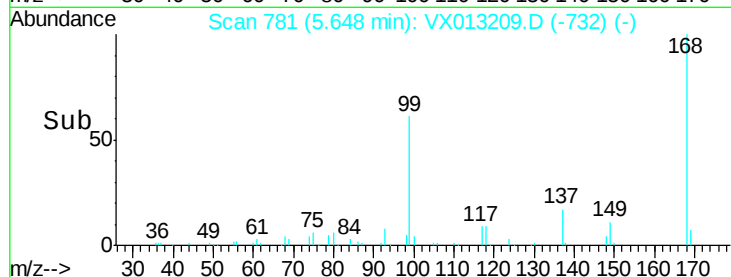
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.331 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013209.D

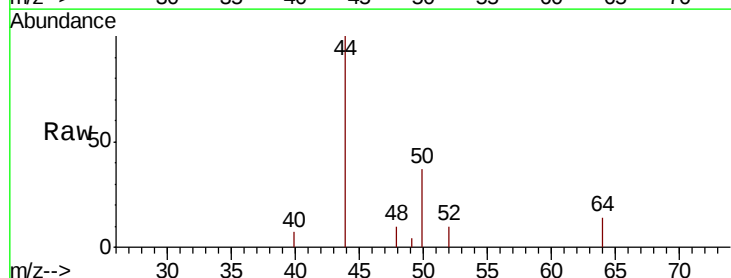
Acq: 24 Oct 2019 14:19

Tgt Ion: 50 Resp: 487

Ion Ratio Lower Upper

50 100

52 28.5 27.8 41.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

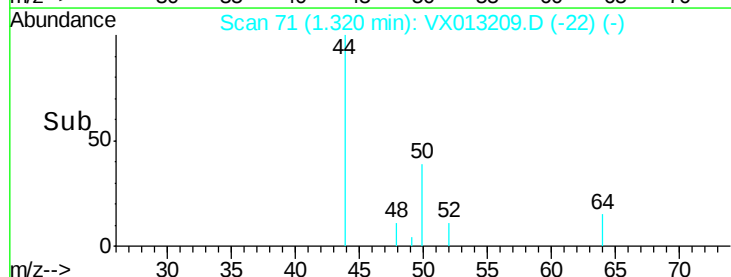
200

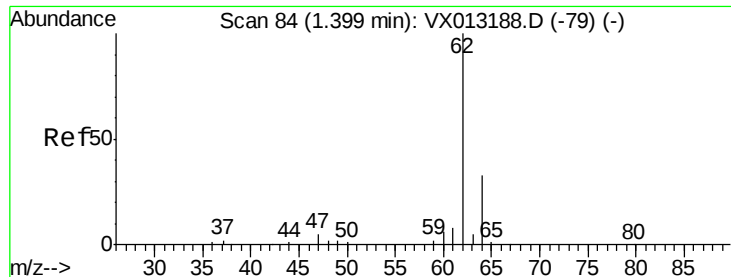
100

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 19.825 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

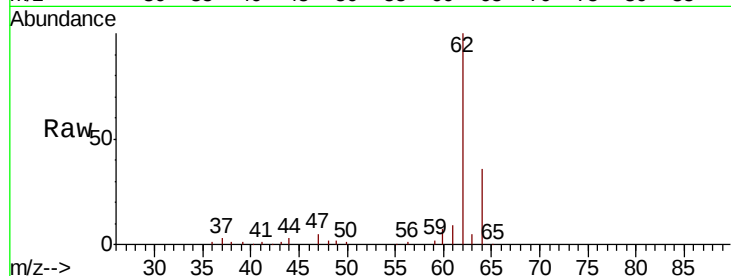
S32-0670

Tot Ion: 62 Resp: 29210

Ion Ratio Lower Upper

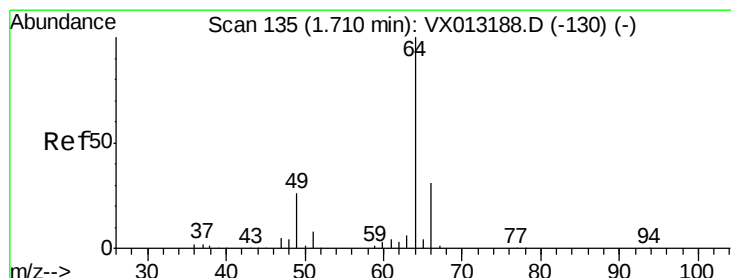
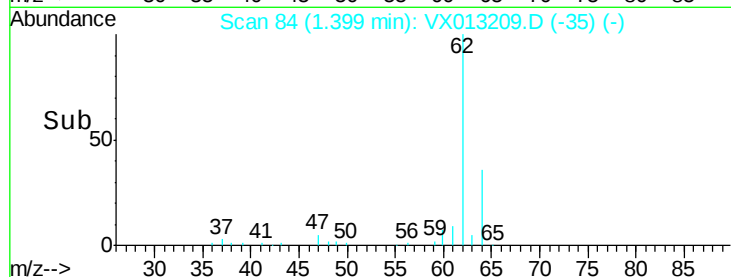
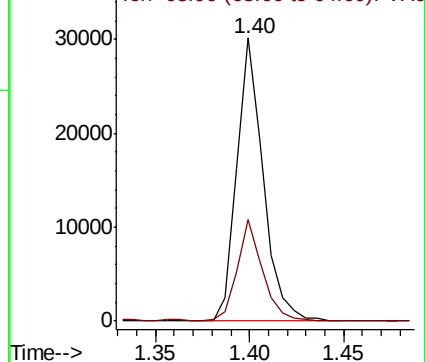
62 100

64 35.9 26.4 39.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX013209.D

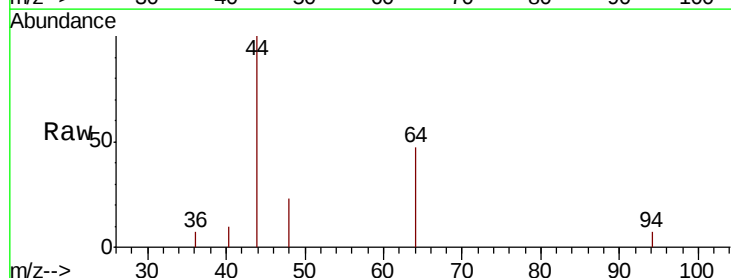
Acq: 24 Oct 2019 14:19

Tgt Ion: 64 Resp: 217

Ion Ratio Lower Upper

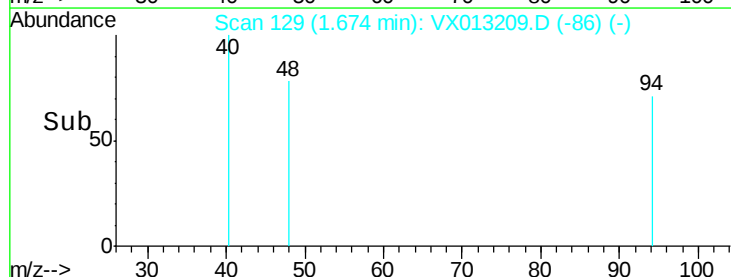
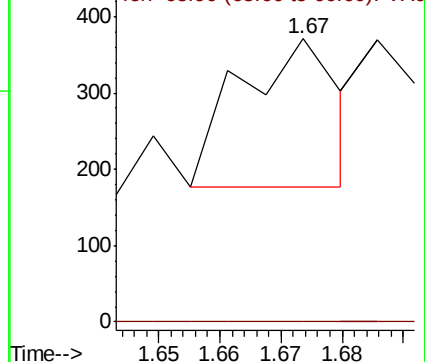
64 100

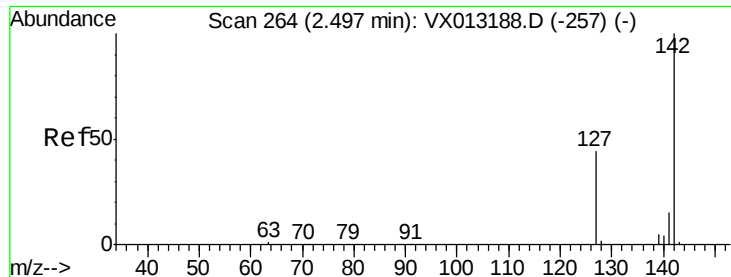
66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

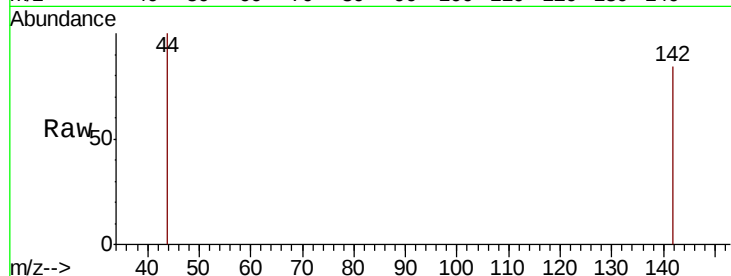




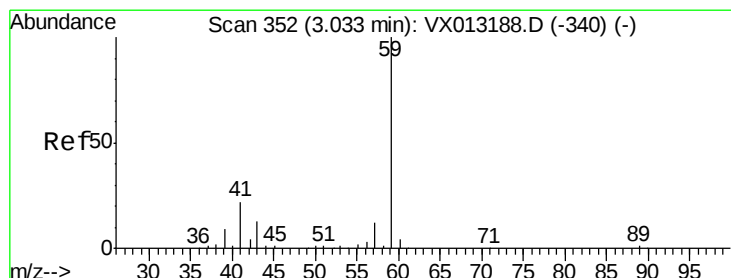
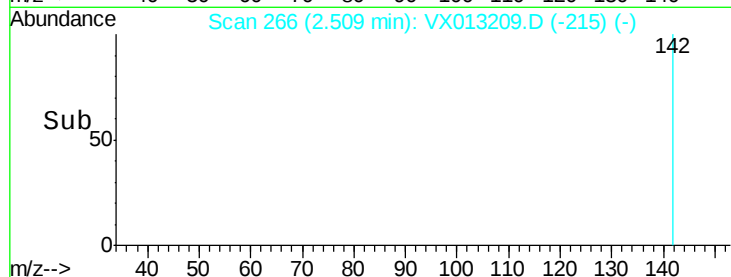
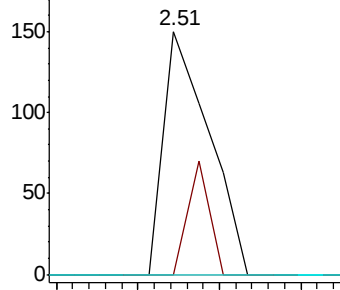
#10
Methvl Iodide
Concen: 3.600 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Instrument :
MSVOA_X
ClientSampleId :
S32-0670

Tot Ion:142 Resp: 117
Ion Ratio Lower Upper
142 100
127 22.2 35.6 53.4#
141 0.0 11.6 17.4#

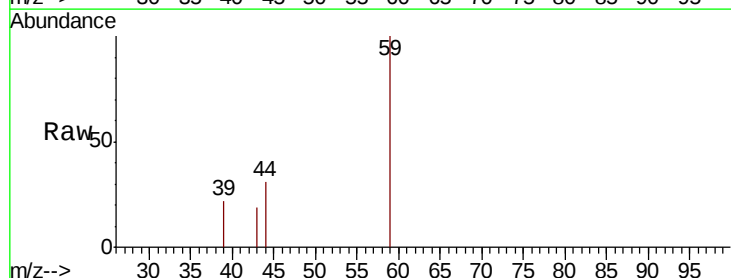


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

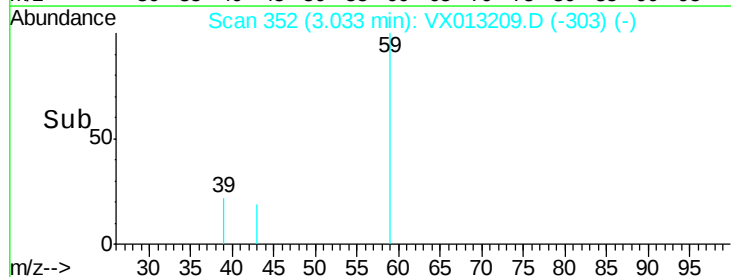
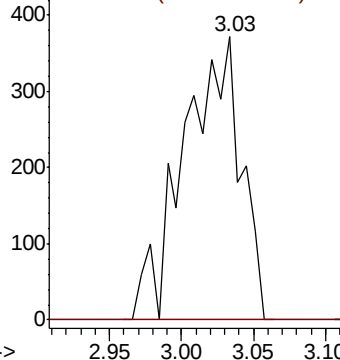


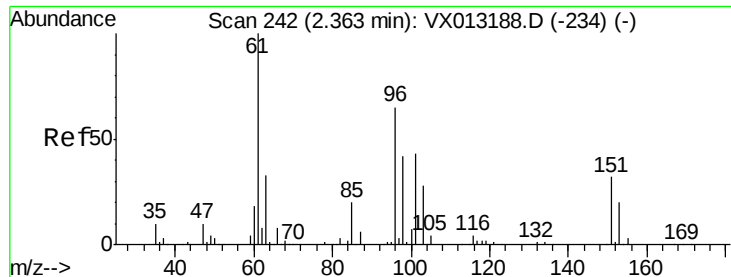
#11
Tert butyl alcohol
Concen: 1.740 ug/l
RT: 3.03 min Scan# 352
Delta R.T. 0.00 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Tgt Ion: 59 Resp: 1029
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 3.701 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

S32-0670

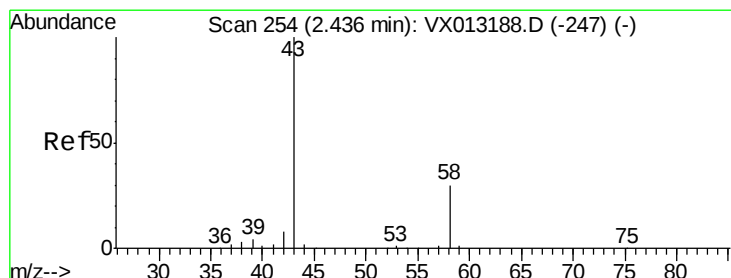
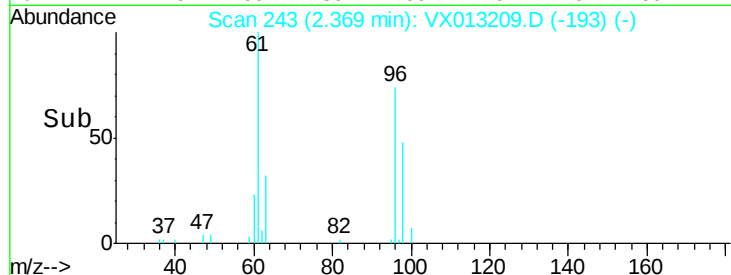
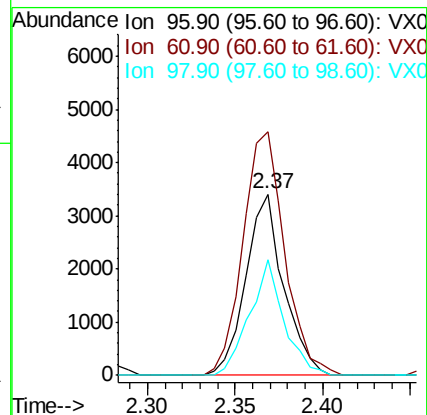
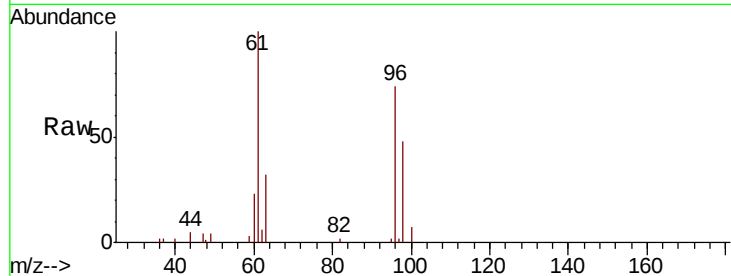
Tot Ion: 96 Resp: 5116

Ion Ratio Lower Upper

96 100

61 134.5 123.8 185.8

98 64.1 51.6 77.4



#16

Acetone

Concen: 13.978 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013209.D

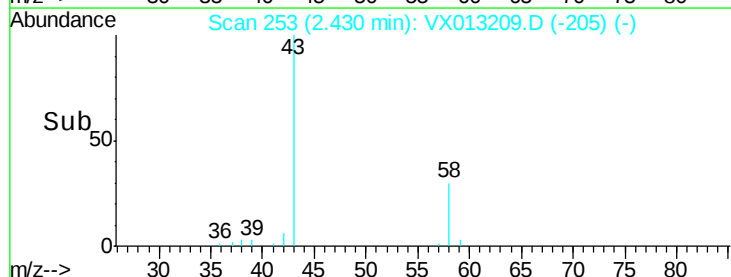
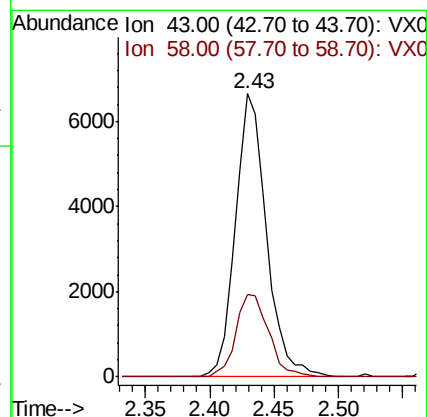
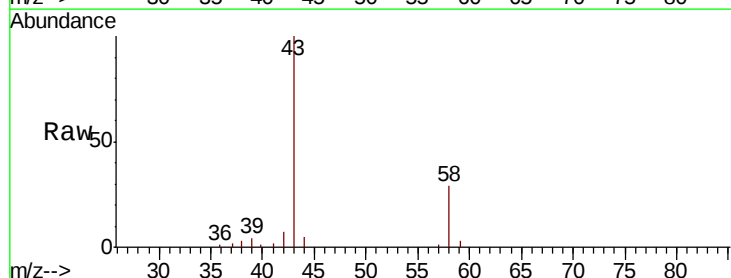
Acq: 24 Oct 2019 14:19

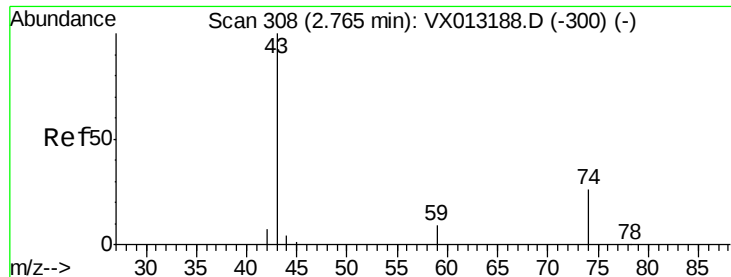
Tgt Ion: 43 Resp: 11176

Ion Ratio Lower Upper

43 100

58 29.2 23.8 35.6





#18

Methvl Acetate

Concen: 2.936 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

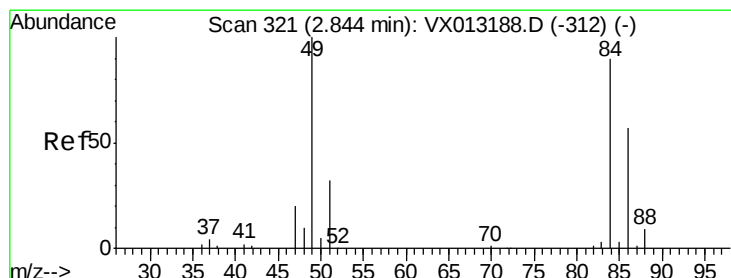
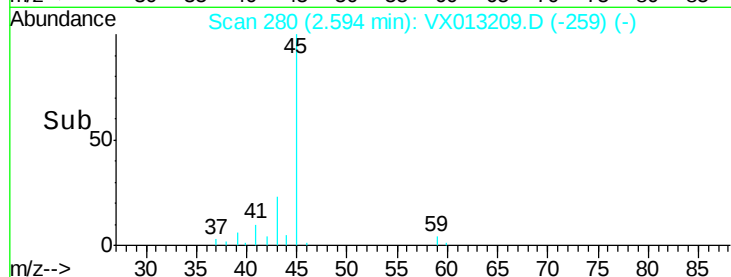
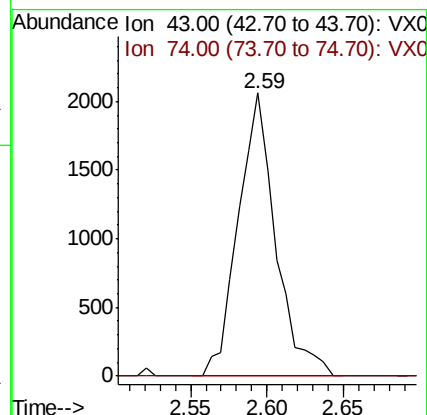
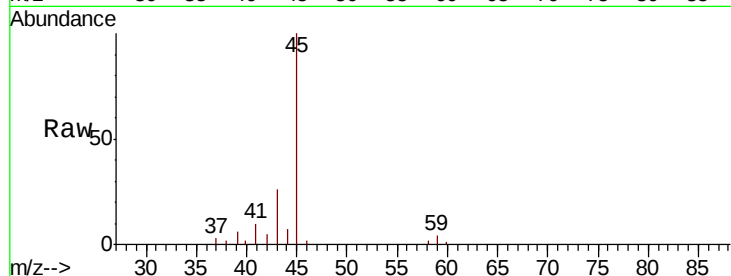
S32-0670

Tot Ion: 43 Resp: 3502

Ion Ratio Lower Upper

43 100

74 0.0 20.9 31.3#



#20

Methylene Chloride

Concen: 0.535 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Tgt Ion: 84 Resp: 371

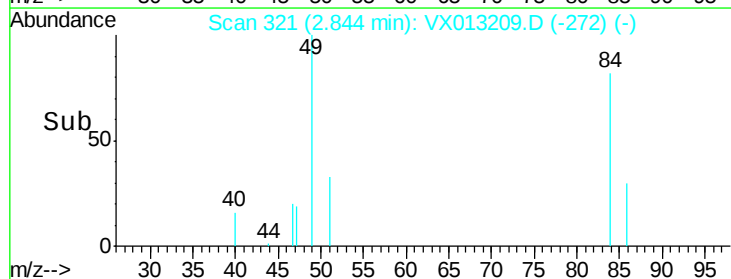
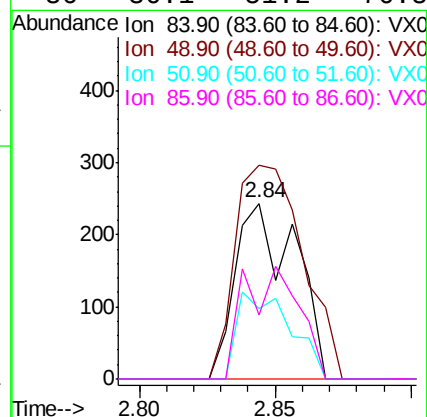
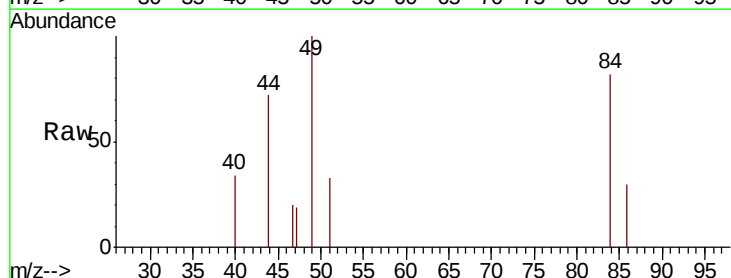
Ion Ratio Lower Upper

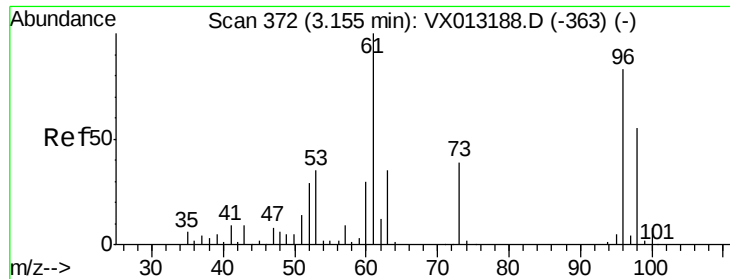
84 100

49 121.3 89.2 133.8

51 40.2 28.8 43.2

86 36.1 51.2 76.8#





#21

trans-1,2-Dichloroethene

Concen: 268.676 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

S32-0670

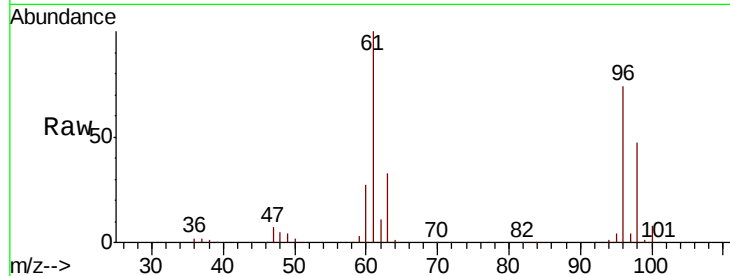
Tot Ion: 96 Resp: 389419

Ion Ratio Lower Upper

96 100

61 135.2 96.9 145.3

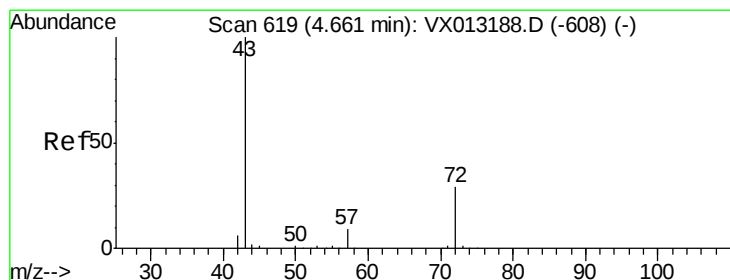
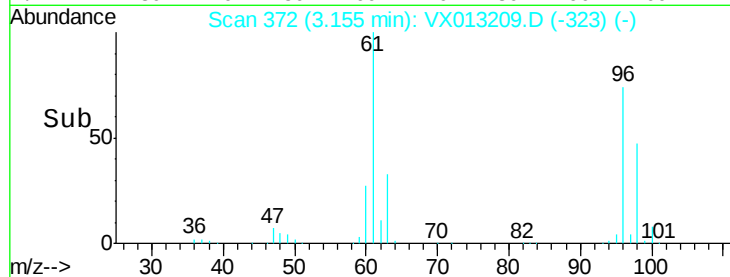
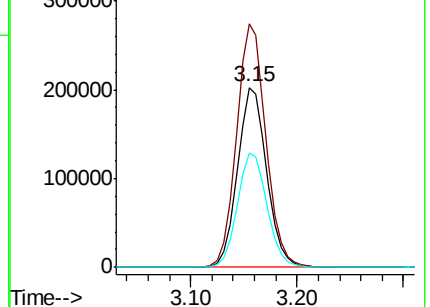
98 63.9 53.0 79.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 2.167 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013209.D

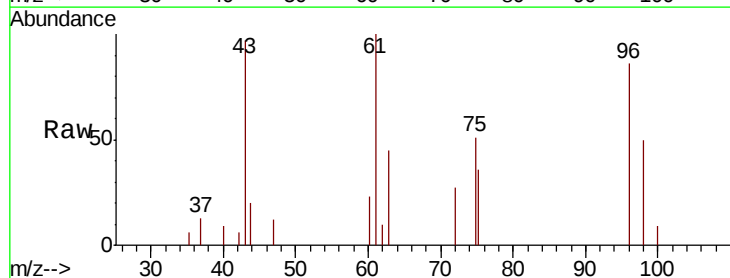
Acq: 24 Oct 2019 14:19

Tgt Ion: 43 Resp: 2324

Ion Ratio Lower Upper

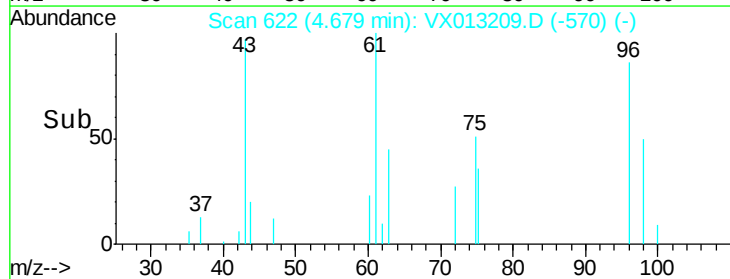
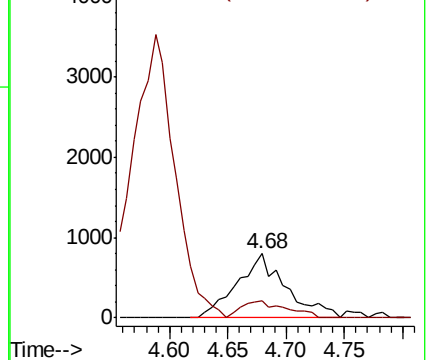
43 100

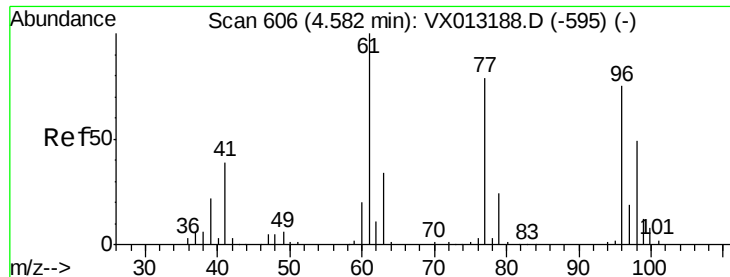
72 27.4 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



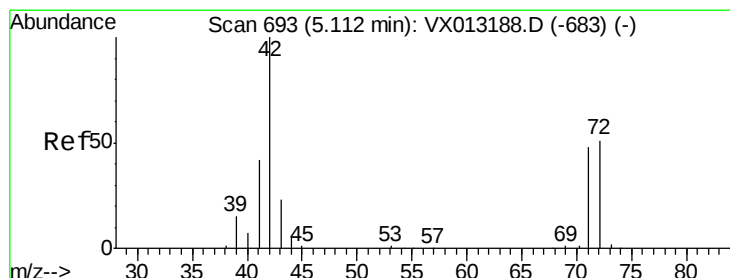
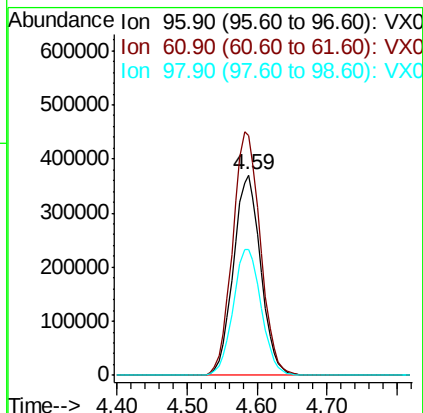
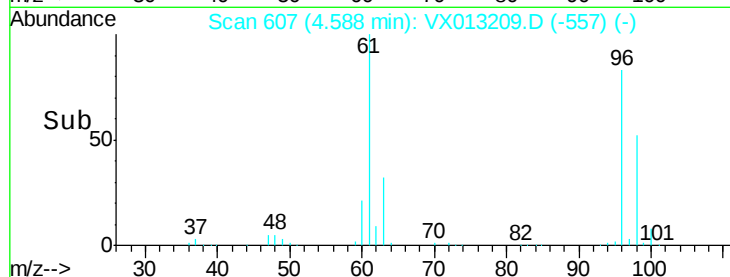
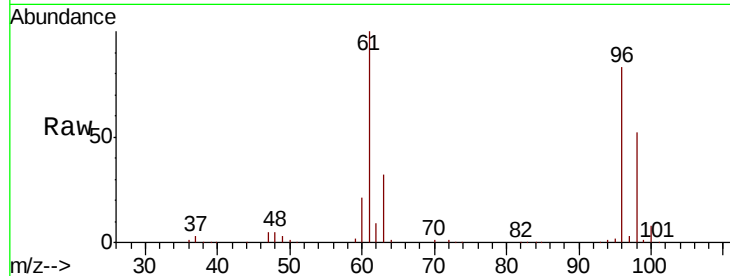


#27

cis-1,2-Dichloroethene
Concen: 593.116 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Instrument :
MSVOA_X
ClientSampled :
S32-0670

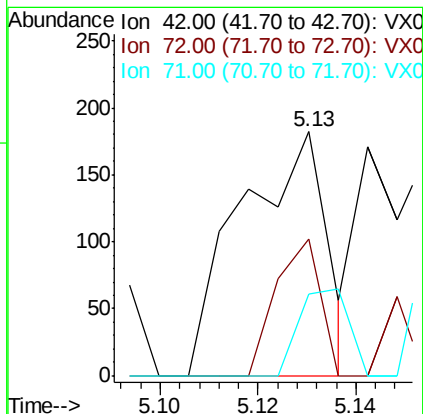
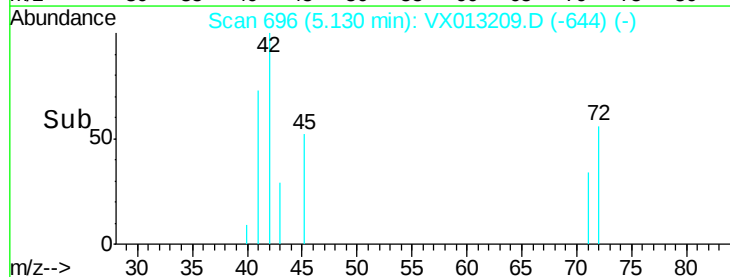
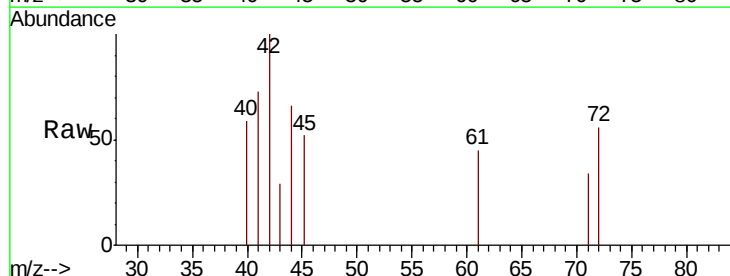
Tot Ion: 96 Resp: 1004008
Ion Ratio Lower Upper
96 100
61 123.7 0.0 290.4
98 64.5 0.0 130.4

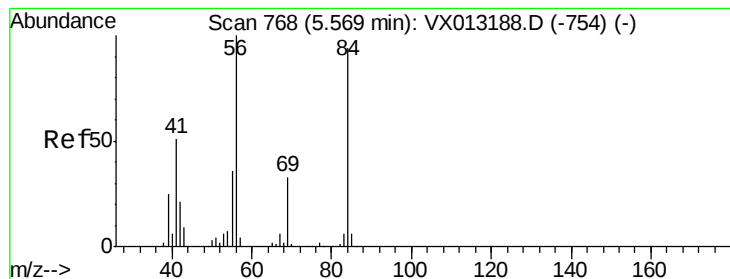


#29

Tetrahydrofuran
Concen: 0.347 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.02 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Tgt Ion: 42 Resp: 224
Ion Ratio Lower Upper
42 100
72 28.6 40.9 61.3#
71 0.0 38.6 57.8#





#31

Cyclohexane

Concen: 0.775 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampled :

S32-0670

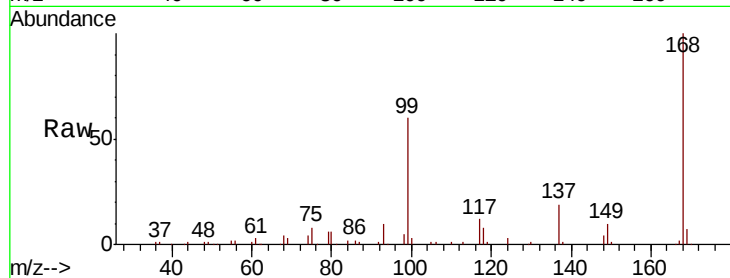
Tot Ion: 56 Resp: 1701

Ion Ratio Lower Upper

56 100

69 140.8 26.3 39.5#

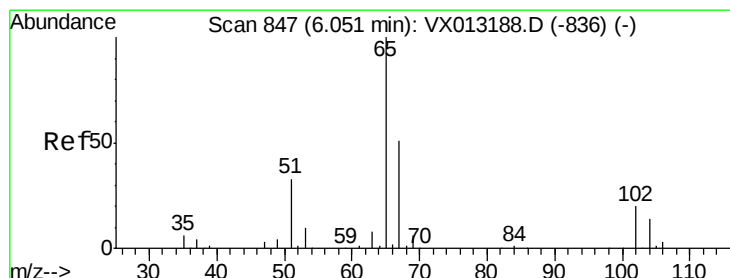
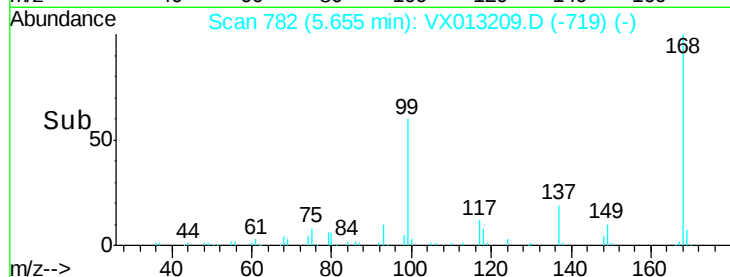
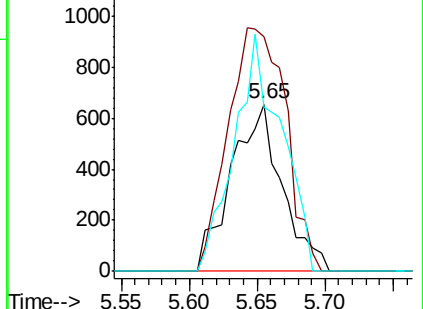
84 98.2 73.8 110.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.294 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013209.D

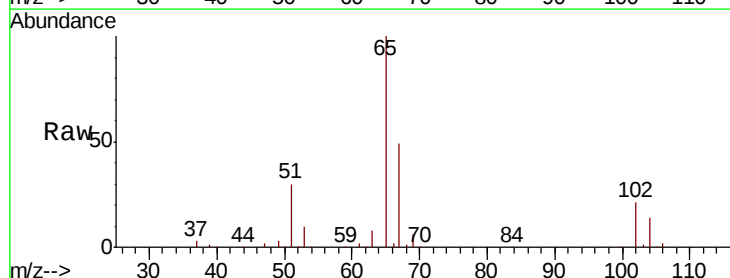
Acq: 24 Oct 2019 14:19

Tgt Ion: 65 Resp: 88746

Ion Ratio Lower Upper

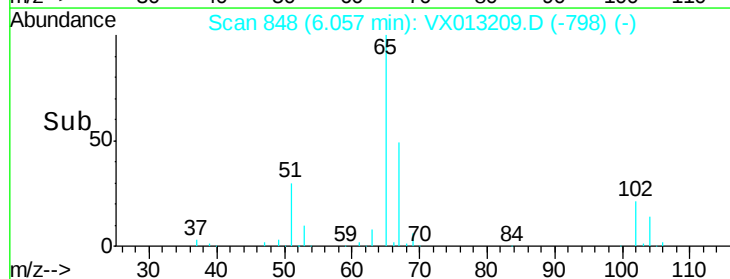
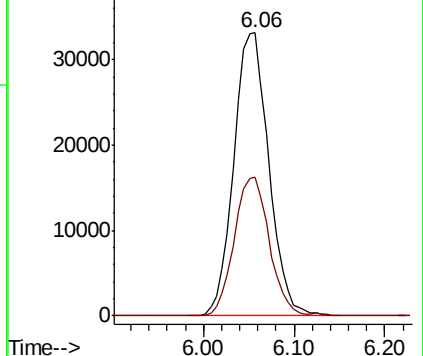
65 100

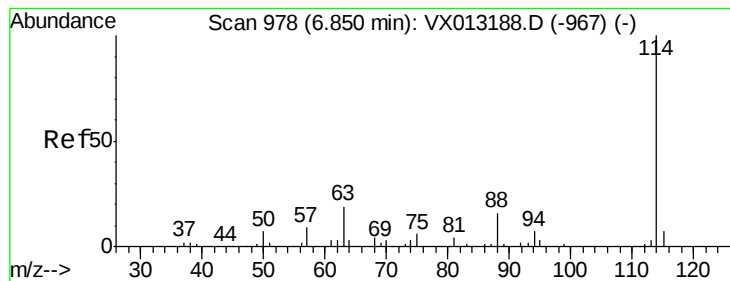
67 49.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

S32-0670

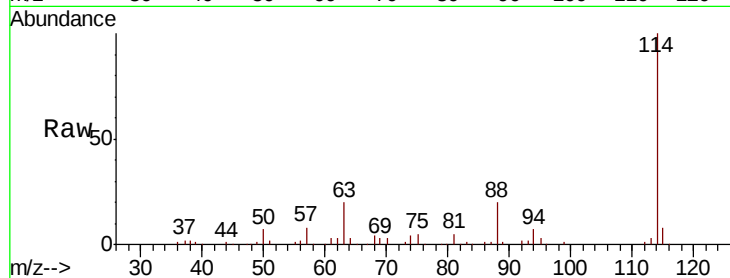
Tot Ion:114 Resp: 117443

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

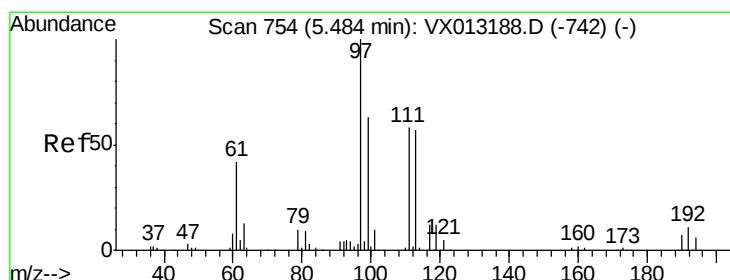
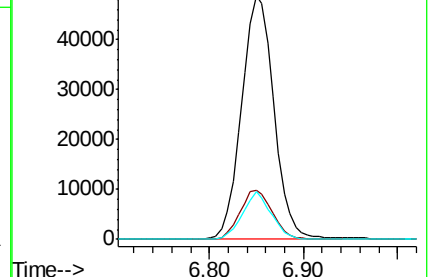
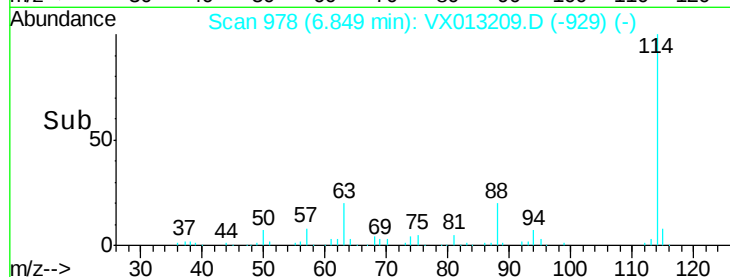
88 19.7 0.0 32.0



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: 52.114 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

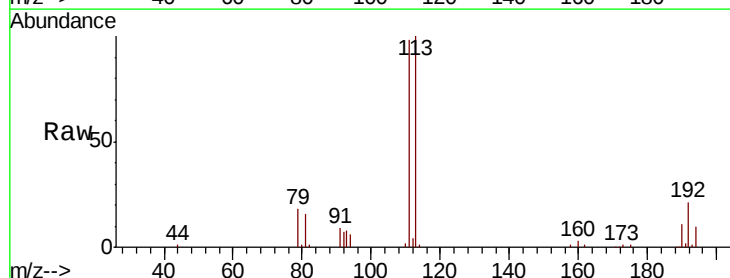
Tgt Ion:113 Resp: 68251

Ion Ratio Lower Upper

113 100

111 101.7 80.3 120.5

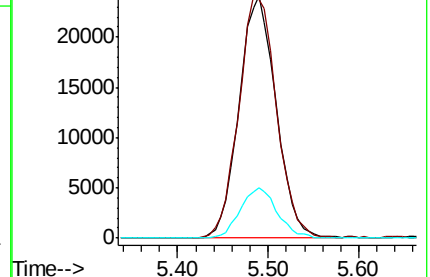
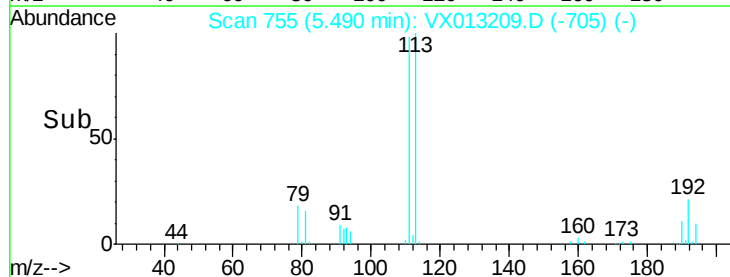
192 20.7 15.9 23.9

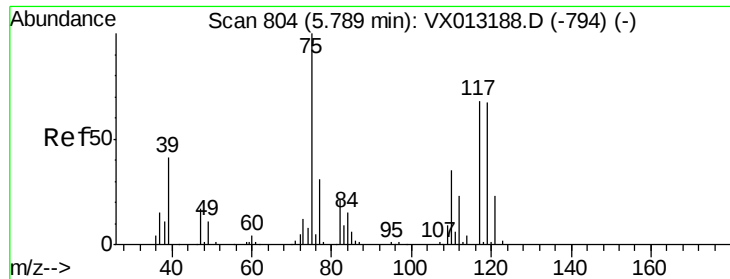


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

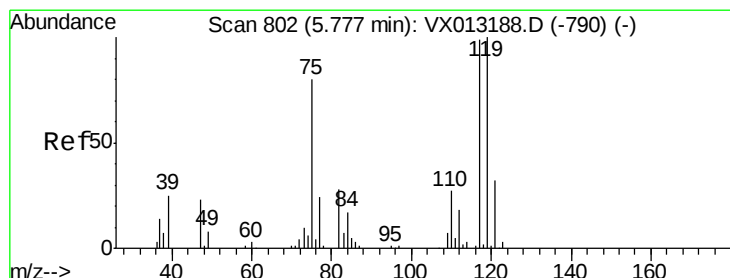
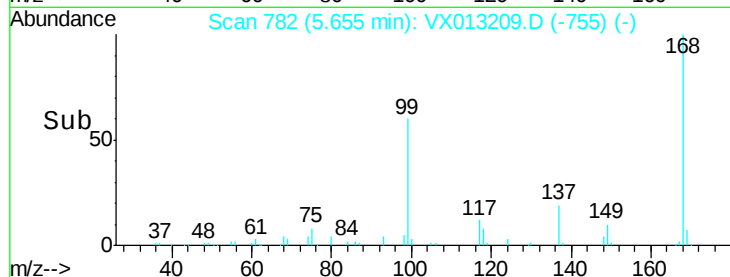
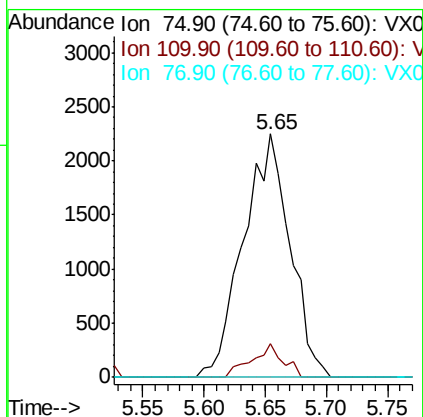
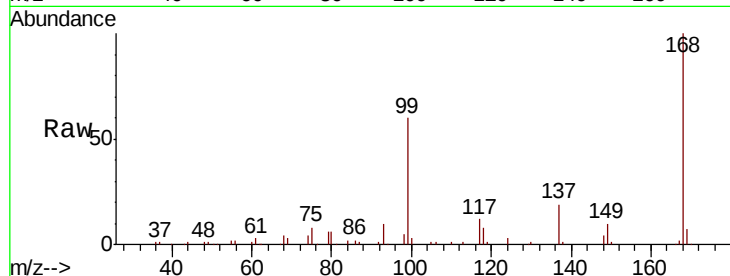




#36
 1,1-Dichloropropene
 Concen: 2.968 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013209.D
 Acq: 24 Oct 2019 14:19

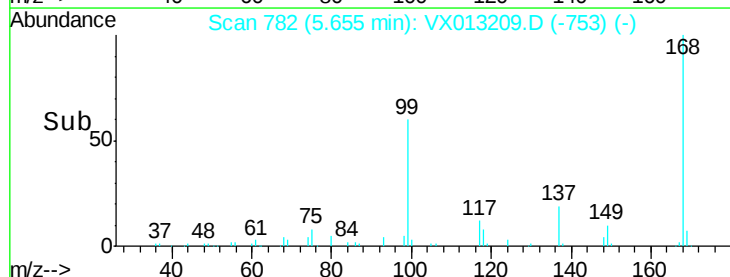
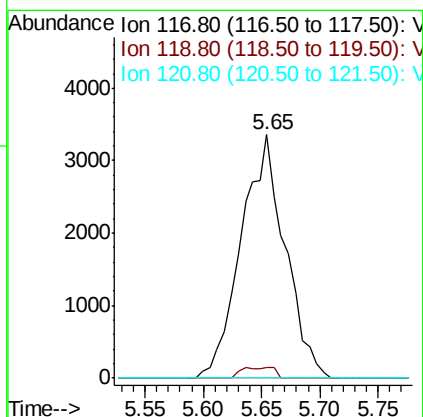
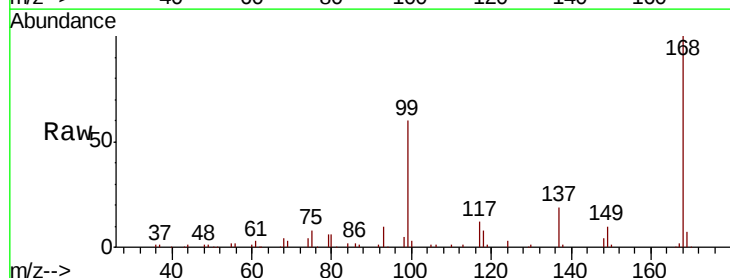
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0670

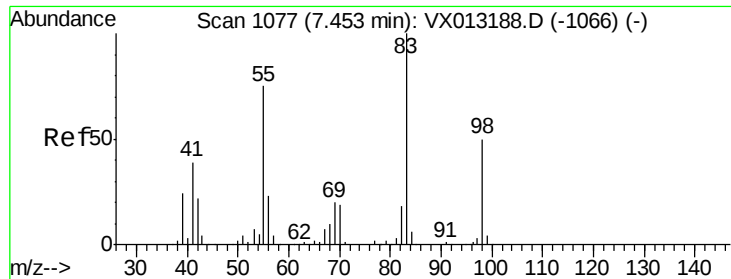
Tot Ion: 75 Resp: 5978
 Ion Ratio Lower Upper
 75 100
 110 9.0 17.6 52.9#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 4.034 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013209.D
 Acq: 24 Oct 2019 14:19

Tgt Ion: 117 Resp: 8756
 Ion Ratio Lower Upper
 117 100
 119 4.2 80.1 120.1#
 121 0.0 25.5 38.3#

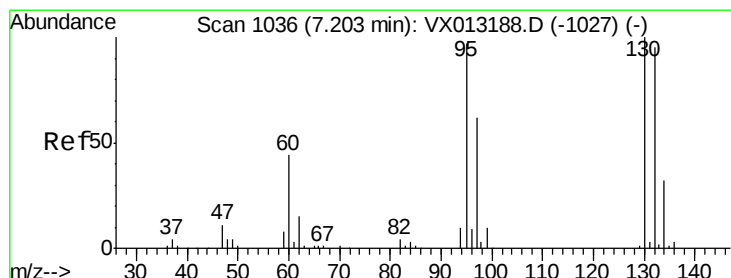
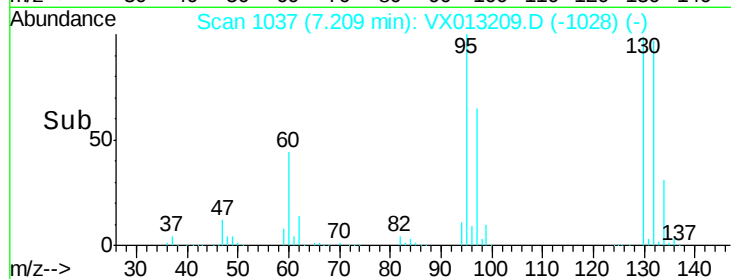
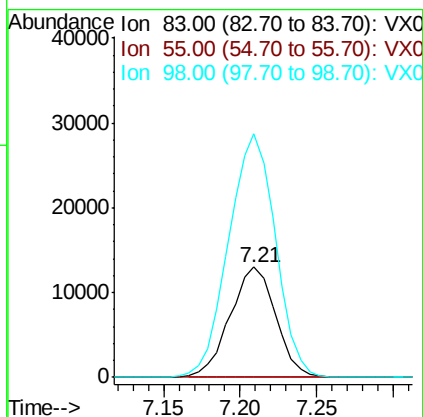
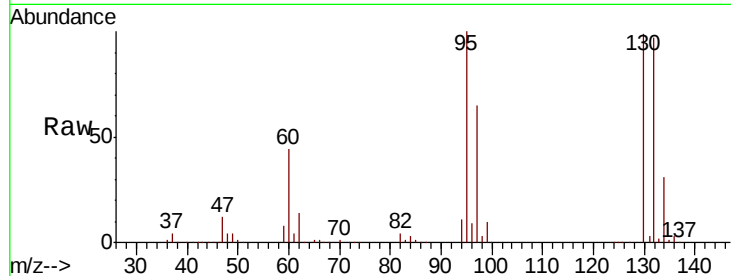




#39
Methvlcvclohexane
Concen: 10.678 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.24 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

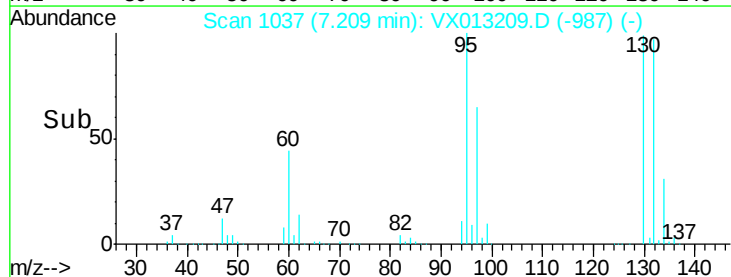
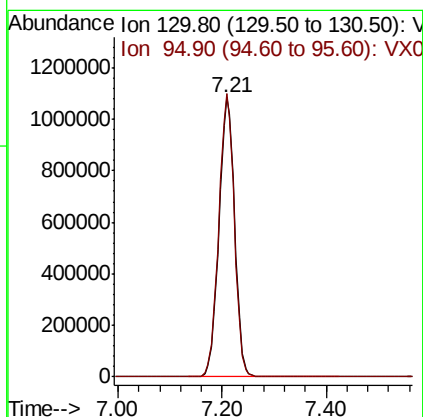
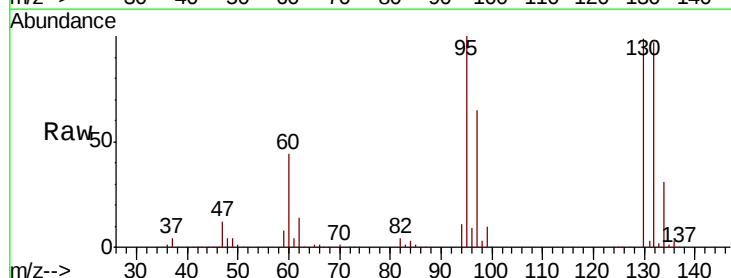
Instrument :
MSVOA_X
ClientSampleId :
S32-0670

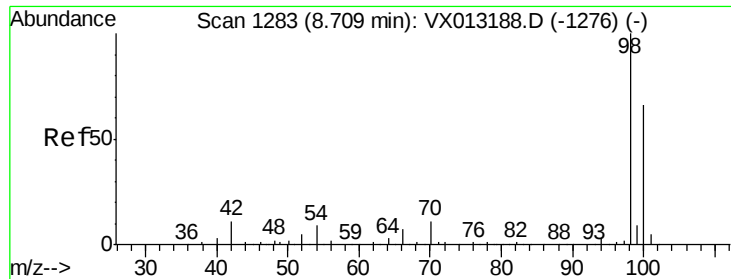
Tot Ion: 83 Resp: 26847
Ion Ratio Lower Upper
83 100
55 0.0 60.1 90.1#
98 220.7 39.8 59.8#



#44
Trichloroethene
Concen: 1388.649 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Tgt Ion:130 Resp: 2324910
Ion Ratio Lower Upper
130 100
95 101.4 0.0 193.6

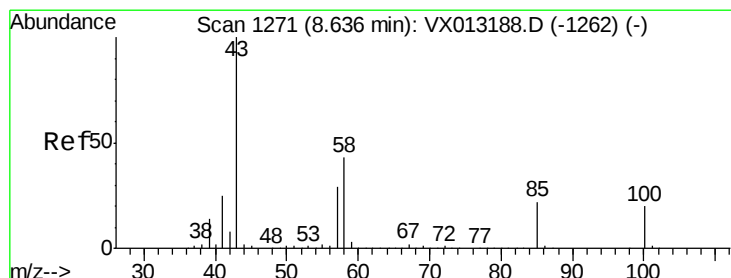
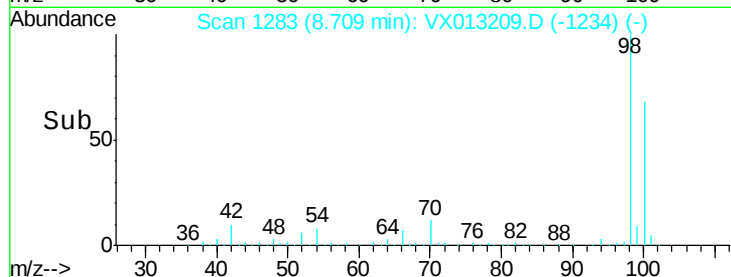
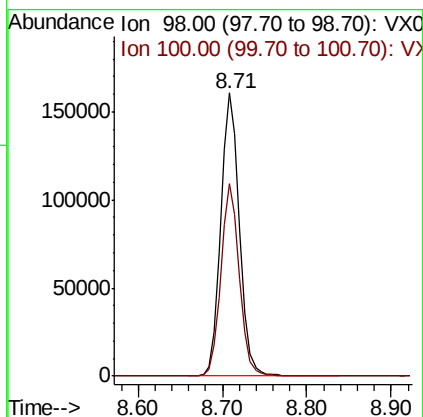
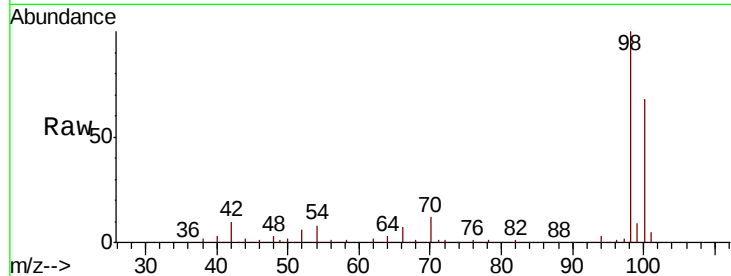




#50
Toluene-d8
Concen: 50.721 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

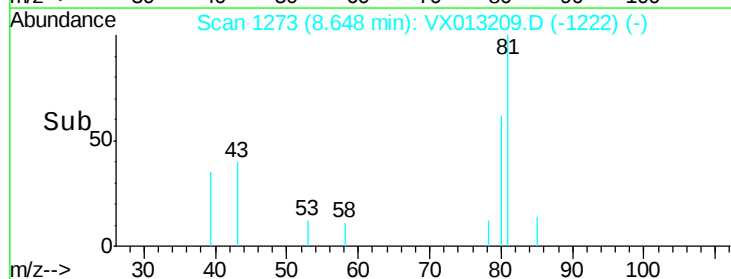
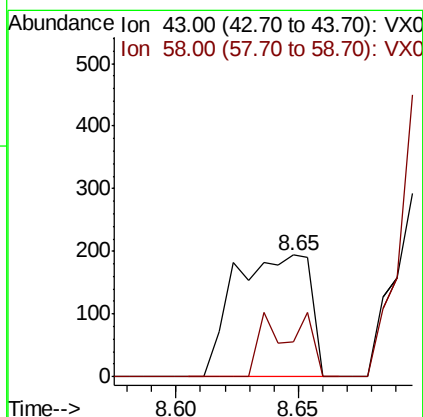
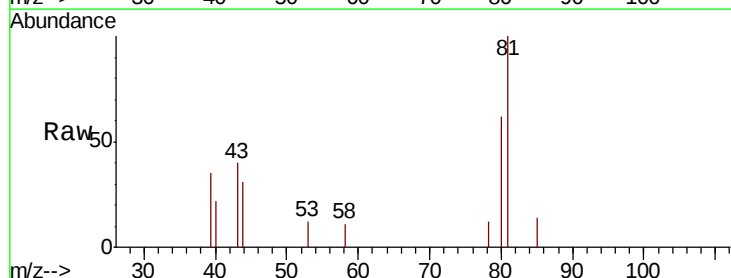
Instrument :
MSVOA_X
ClientSampleId :
S32-0670

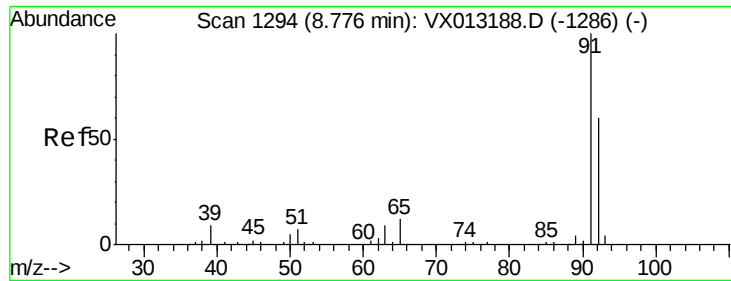
Tot Ion: 98 Resp: 246170
Ion Ratio Lower Upper
98 100
100 67.2 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 0.213 ug/l
RT: 8.65 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Tgt Ion: 43 Resp: 422
Ion Ratio Lower Upper
43 100
58 27.3 33.9 50.9#





#52

Toluene

Concen: 0.265 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampled :

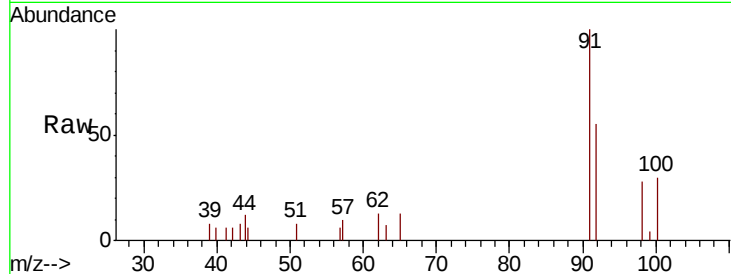
S32-0670

Tot Ion: 92 Resp: 1037

Ion Ratio Lower Upper

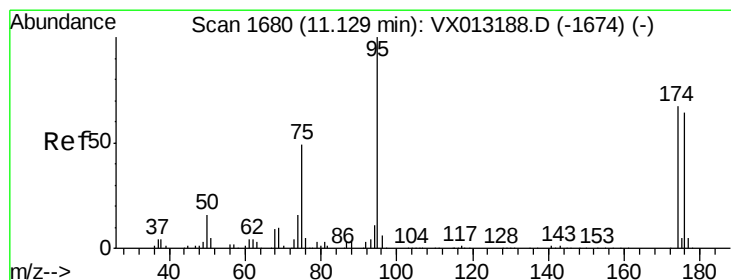
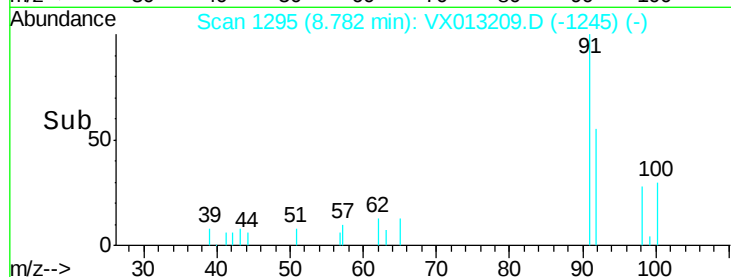
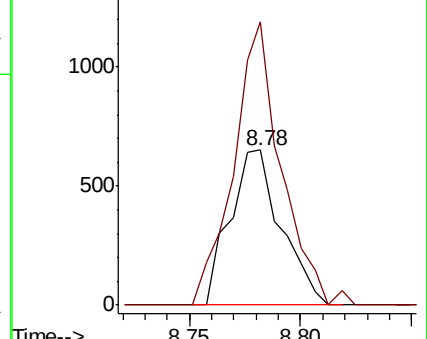
92 100

91 171.0 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.943 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

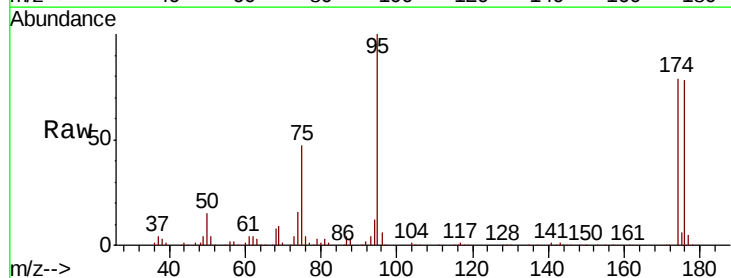
Tgt Ion: 95 Resp: 92099

Ion Ratio Lower Upper

95 100

174 75.2 0.0 152.4

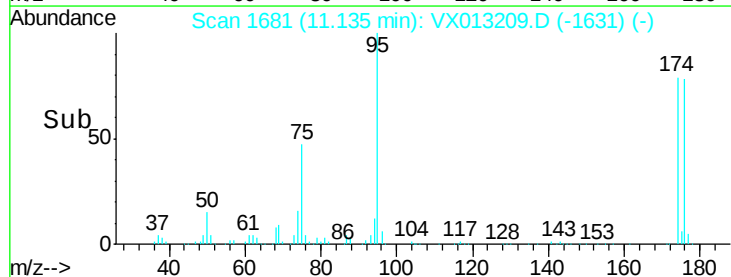
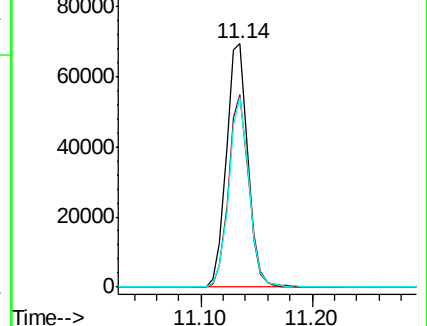
176 73.8 0.0 146.0

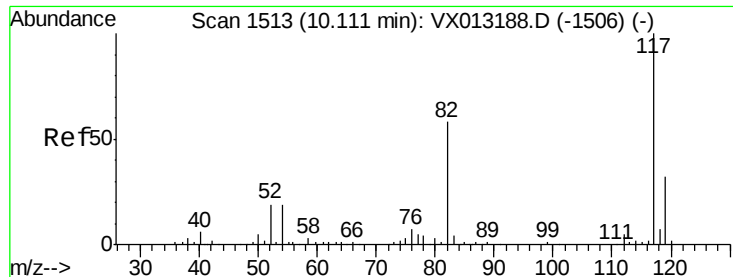


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

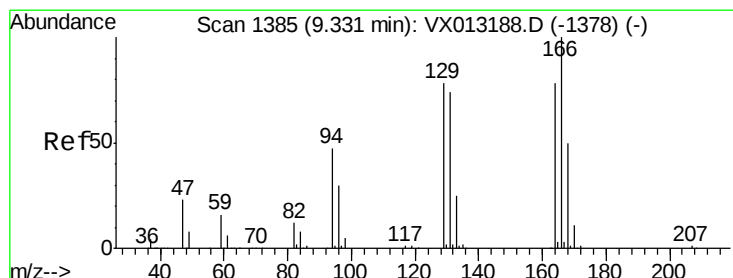
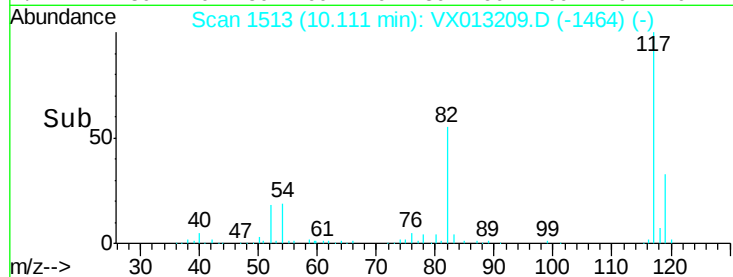
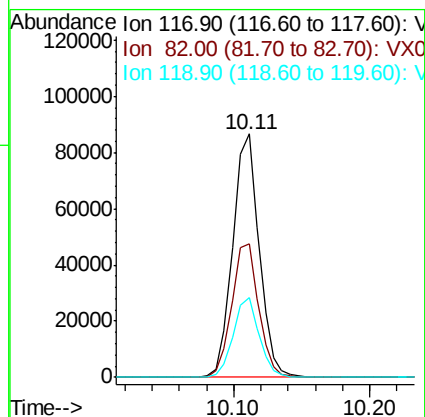
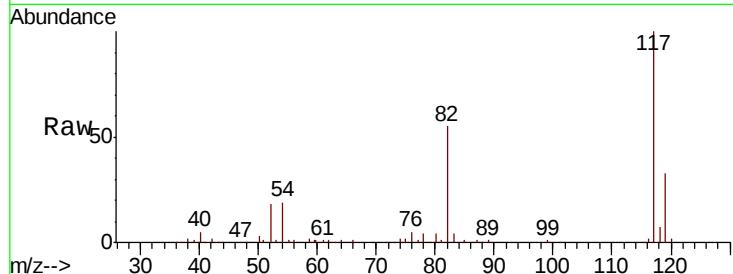




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

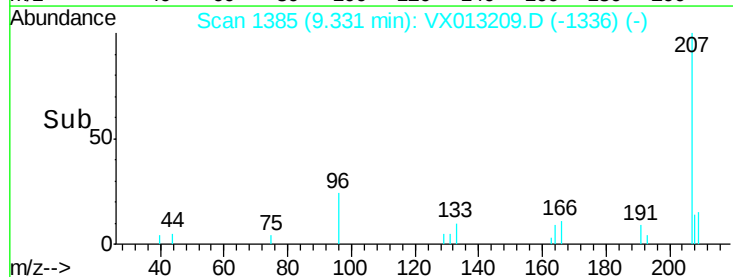
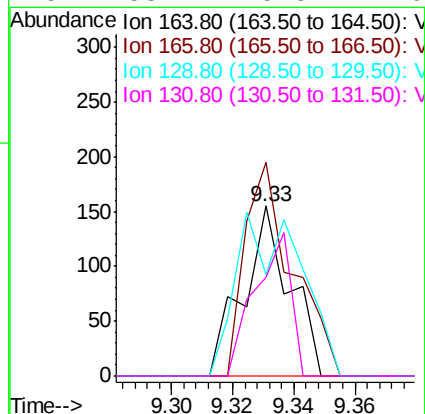
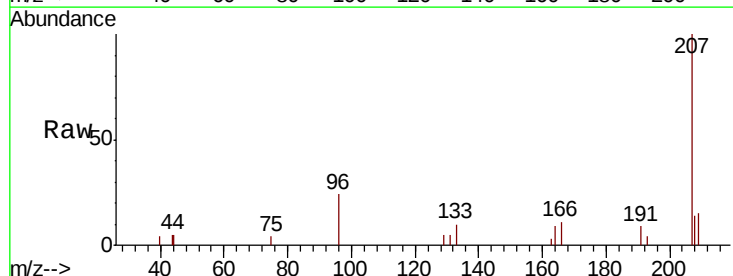
Instrument :
MSVOA_X
ClientSampleId :
S32-0670

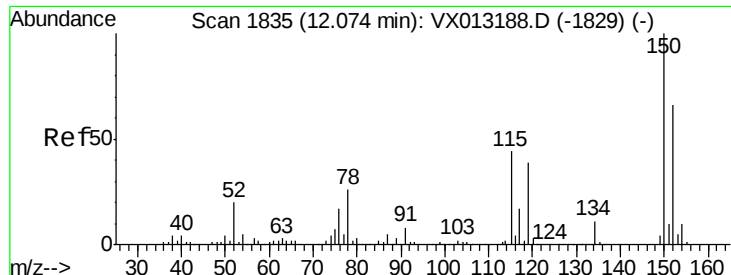
Tot Ion:117 Resp: 117391
Ion Ratio Lower Upper
117 100
82 55.1 46.5 69.7
119 32.7 25.2 37.8



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013209.D
Acq: 24 Oct 2019 14:19

Tgt Ion:164 Resp: 163
Ion Ratio Lower Upper
164 100
166 125.8 102.2 153.4
129 59.4 79.8 119.8#
131 58.1 75.3 112.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampled :

S32-0670

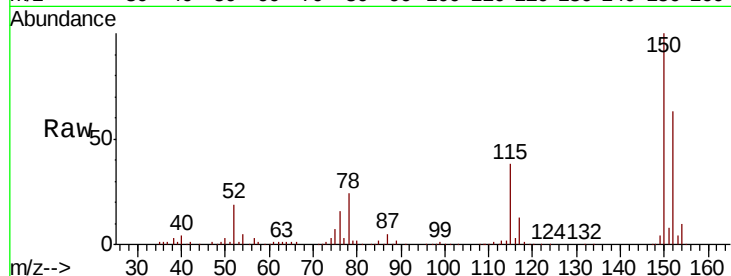
Tot Ion:152 Resp: 74382

Ion Ratio Lower Upper

152 100

115 62.6 46.6 139.8

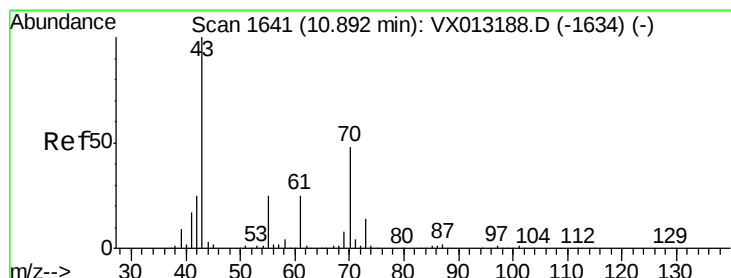
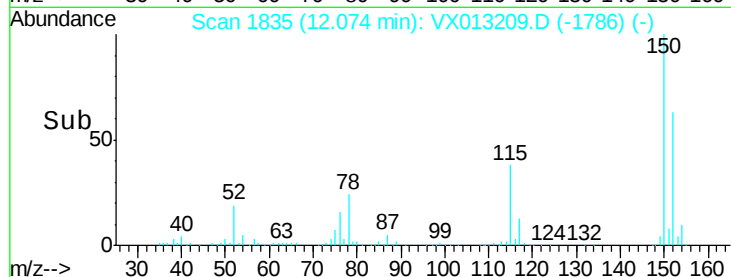
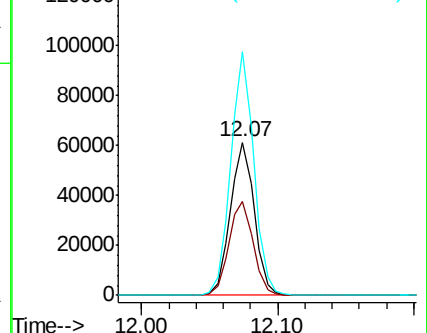
150 154.5 0.0 354.0



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



#74

N-ethyl acetate

Concen: 0.327 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Tgt Ion: 43 Resp: 811

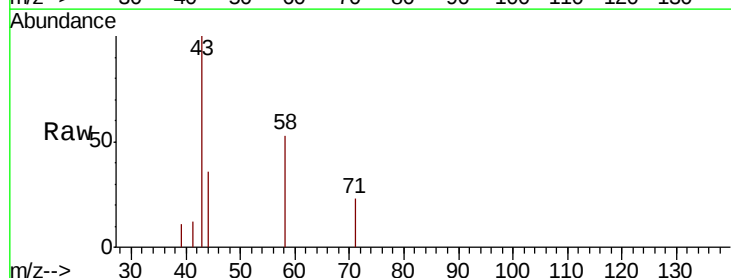
Ion Ratio Lower Upper

43 100

70 0.0 38.5 57.7#

55 0.0 20.7 31.1#

61 0.0 20.8 31.2#

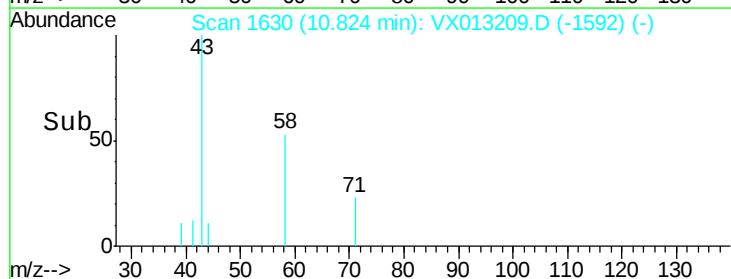
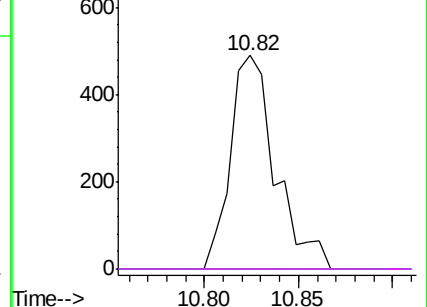


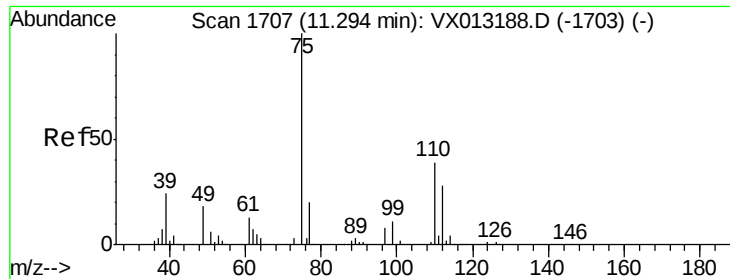
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.929 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

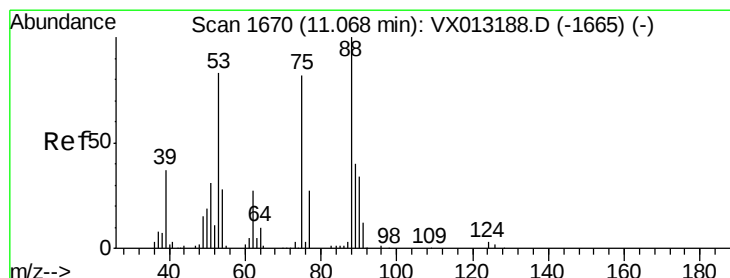
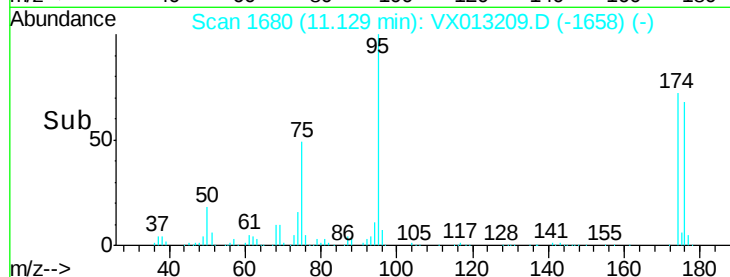
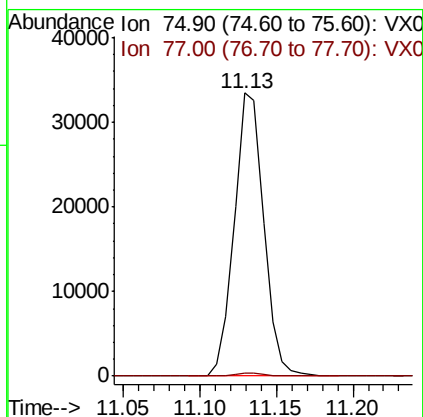
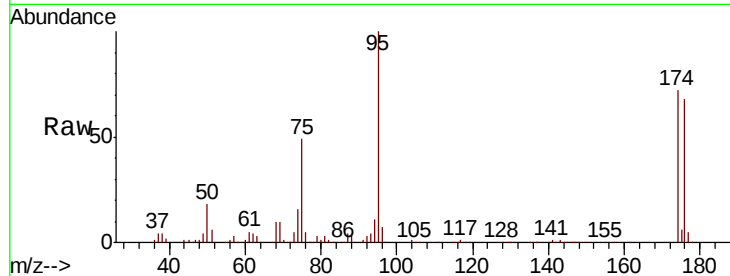
S32-0670

Tot Ion: 75 Resp: 44691

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.503 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013209.D

Acq: 24 Oct 2019 14:19

Tgt Ion: 75 Resp: 44691

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 37.3 55.9#

