

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\
 Data File : VX004367.D
 Acq On : 05 Sep 2018 13:08
 Operator : JC/MD
 Sample : J4693-03ME
 Misc : 5.78g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 05 14:08:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	262242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	415995	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	411595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	264948	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	179675	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	5.50	113	154113	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
50) Toluene-d8	8.71	98	595642	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
62) 4-Bromofluorobenzene	11.14	95	239061	54.85	ug/l	0.00
Spiked Amount			Recovery	=	109.70%	

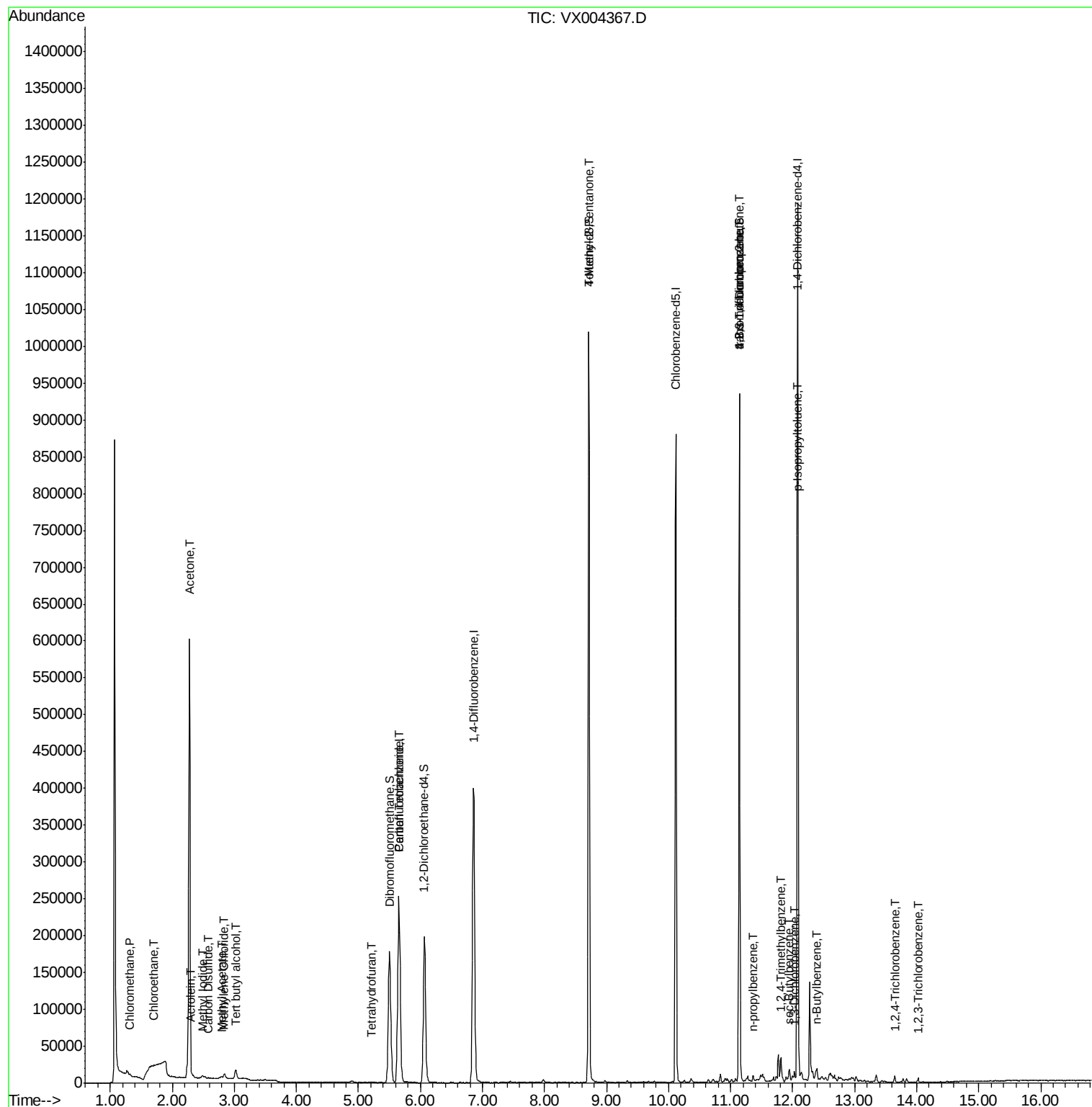
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1232	0.65	ug/l	98
5) Bromomethane	1.64	94	1503	Below Cal		96
6) Chloroethane	1.71	64	68	0.99	ug/l #	82
10) Methyl Iodide	2.48	142	2723	5.01	ug/l	95
11) Tert butyl alcohol	3.02	59	8498	11.66	ug/l #	78
13) Acrolein	2.31	56	317	1.80	ug/l #	63
16) Acetone	2.28	43	97713	64.02	ug/l #	42
17) Carbon Disulfide	2.57	76	77	0.81	ug/l #	76
18) Methyl Acetate	2.79	43	4186	0.83	ug/l	98
20) Methylene Chloride	2.84	84	3326	1.01	ug/l	90
25) 2-Butanone	4.74	43	1420	Below Cal		92
29) Tetrahydrofuran	5.20	42	992	0.68	ug/l #	68
38) Carbon Tetrachloride	5.65	117	22984	5.22	ug/l #	15
51) 4-Methyl-2-Pentanone	8.71	43	2537	0.49	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	111327	20.66	ug/l #	37
78) n-propylbenzene	11.36	91	4531	0.23	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.14	75	111327	67.03	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	12804	0.87	ug/l	97
85) sec-Butylbenzene	11.95	105	3753	0.22	ug/l	90
86) p-Isopropyltoluene	12.07	119	3091	0.20	ug/l #	68
87) 1,3-Dichlorobenzene	12.03	146	1894	0.21	ug/l	95
89) n-Butylbenzene	12.39	91	4895	0.39	ug/l #	84
93) 1,2,4-Trichlorobenzene	13.65	180	2148	0.35	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1643	0.25	ug/l	92

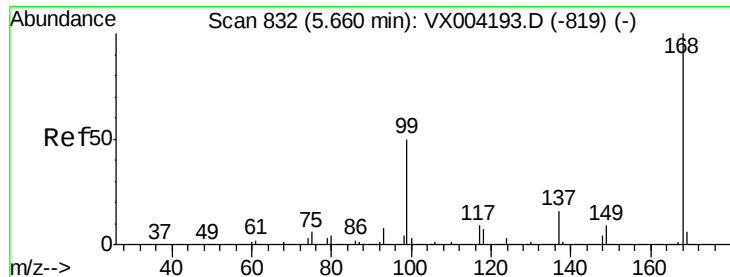
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 05 14:08:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.01 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

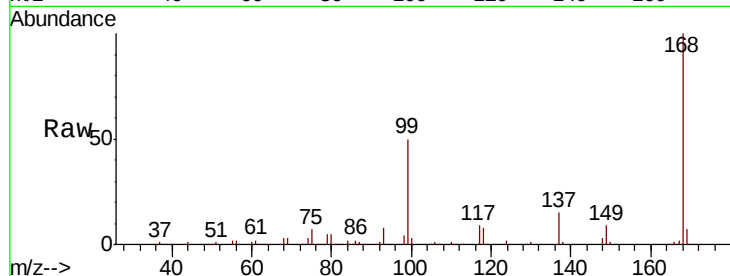
ClientSampleId :

Tot Ion:168 Resp: 262242

Ion Ratio Lower Upper

168 100

99 50.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

100000

80000

60000

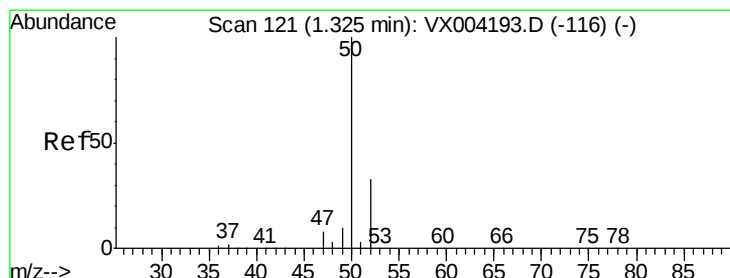
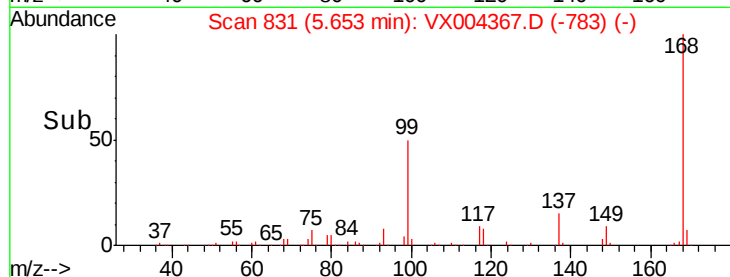
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.65 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004367.D

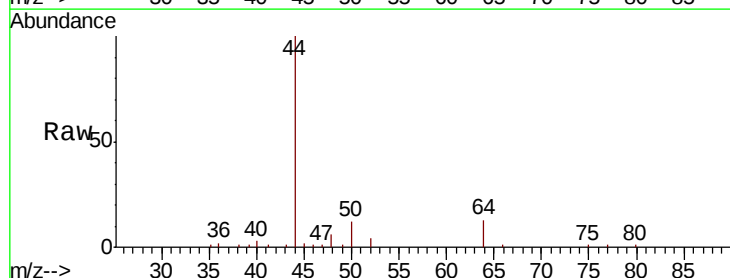
Acq: 05 Sep 2018 13:08

Tgt Ion: 50 Resp: 1232

Ion Ratio Lower Upper

50 100

52 31.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

600

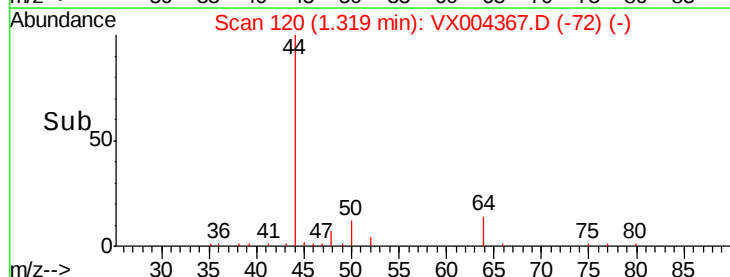
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

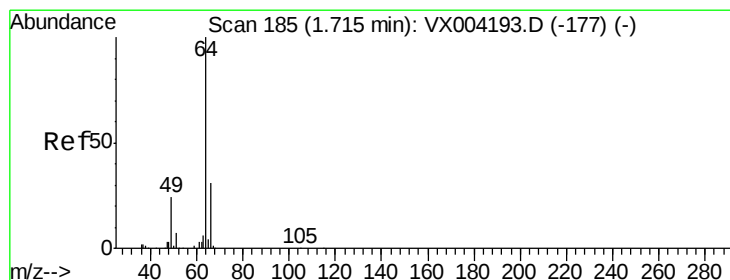
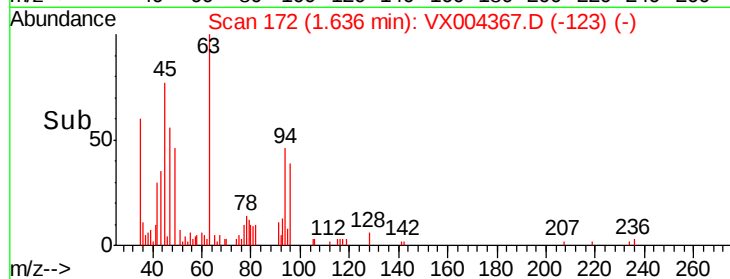
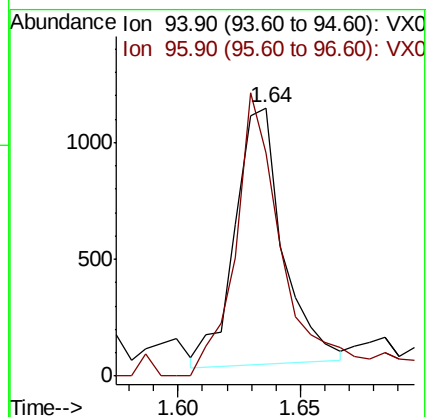
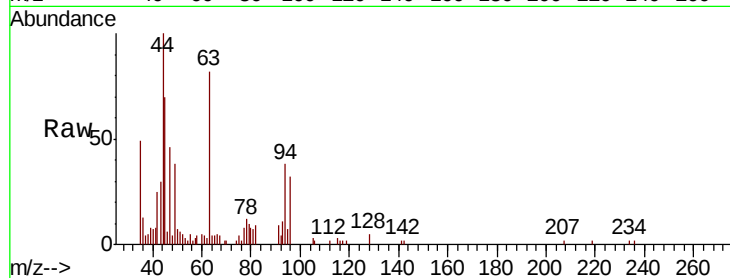
ClientSampleId :

Tot Ion: 94 Resp: 1503

Ion Ratio Lower Upper

94 100

96 89.5 74.5 111.7



#6

Chloroethane

Concen: 0.99 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX004367.D

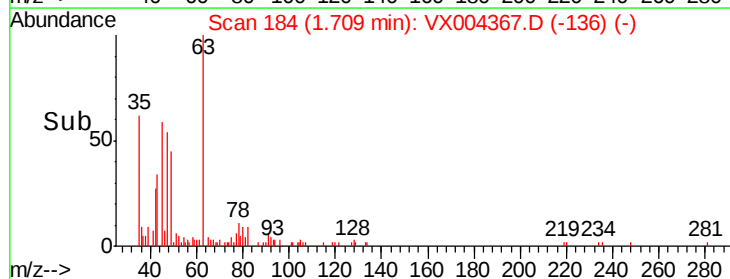
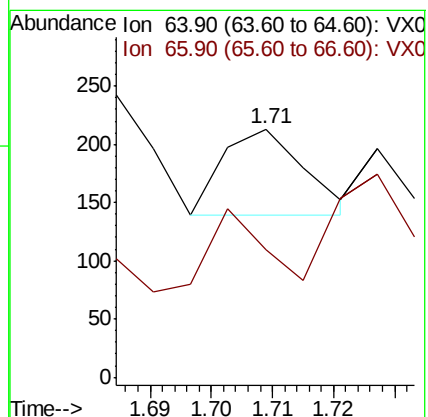
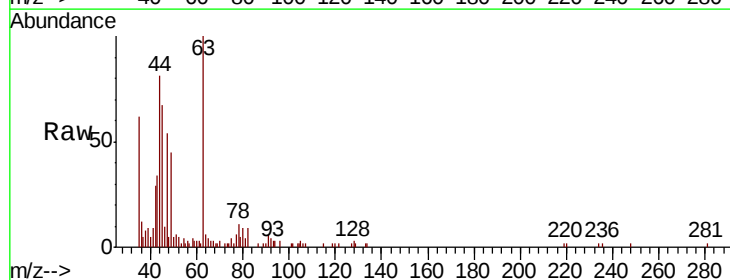
Acq: 05 Sep 2018 13:08

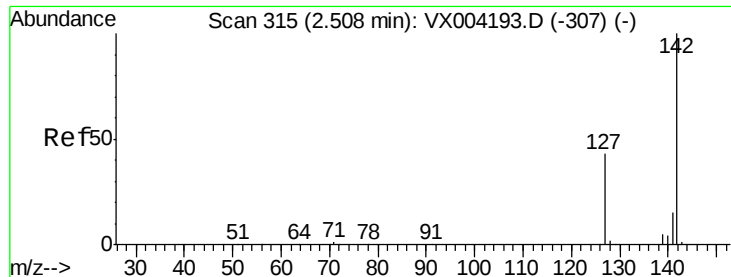
Tgt Ion: 64 Resp: 68

Ion Ratio Lower Upper

64 100

66 40.5 24.6 36.8#

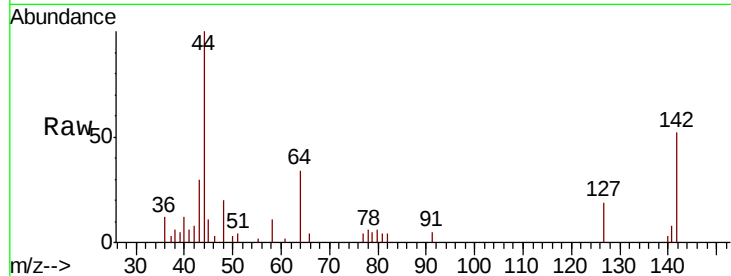




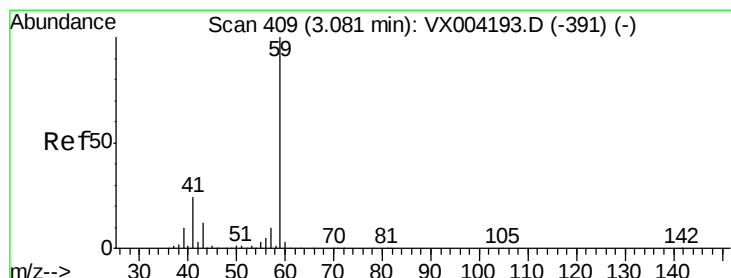
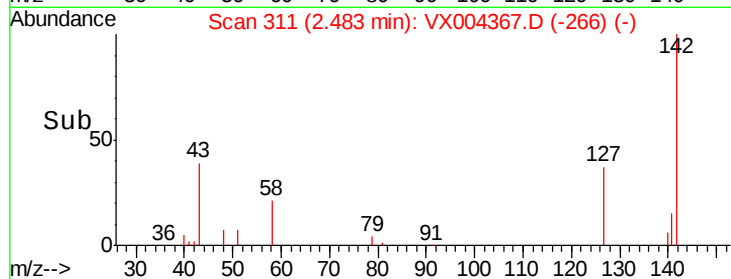
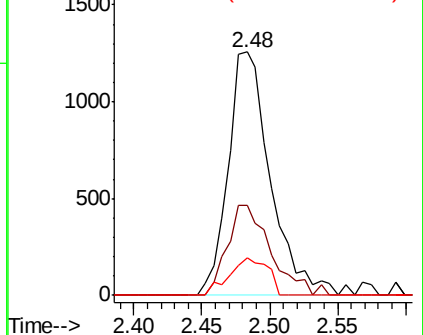
#10
Methvl Iodide
Concen: 5.01 ug/l
RT: 2.48 min Scan# 311
Delta R.T. -0.02 min
Lab File: VX004367.D
Acq: 05 Sep 2018 13:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 2723
Ion Ratio Lower Upper
142 100
127 38.2 33.8 50.6
141 13.9 11.4 17.0

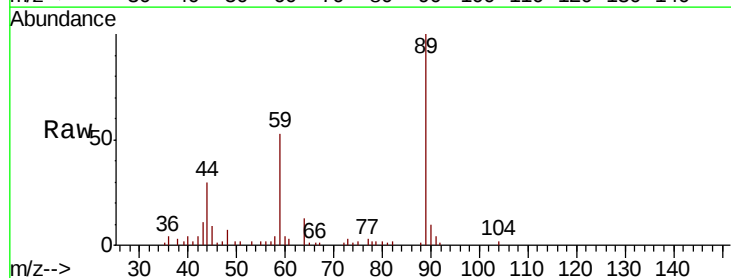


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

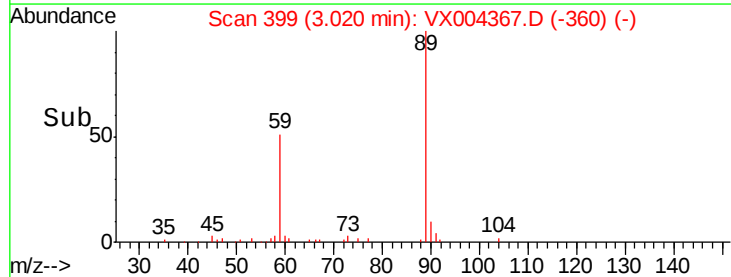
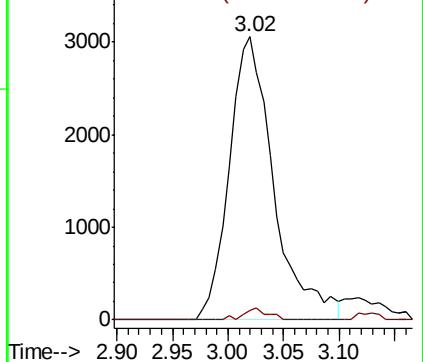


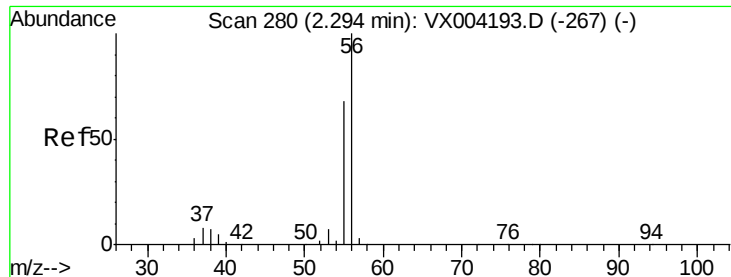
#11
Tert butyl alcohol
Concen: 11.66 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX004367.D
Acq: 05 Sep 2018 13:08

Tgt Ion: 59 Resp: 8498
Ion Ratio Lower Upper
59 100
57 2.3 8.2 12.4#



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





#13

Acrolein

Concen: 1.80 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

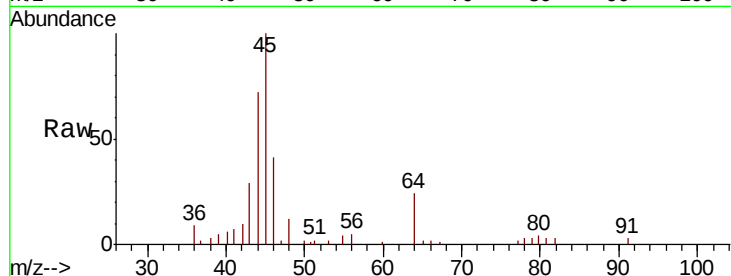
ClientSampled :

Tot Ion: 56 Resp: 317

Ion Ratio Lower Upper

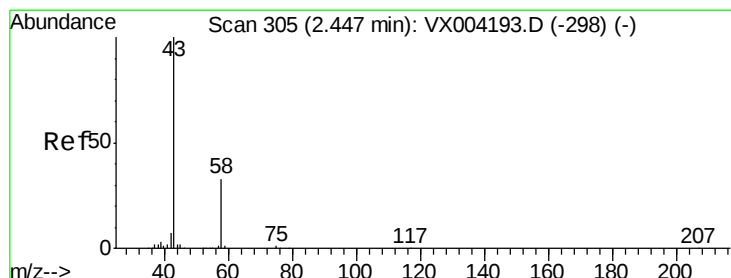
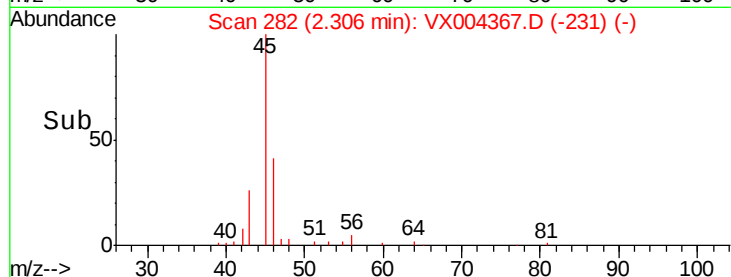
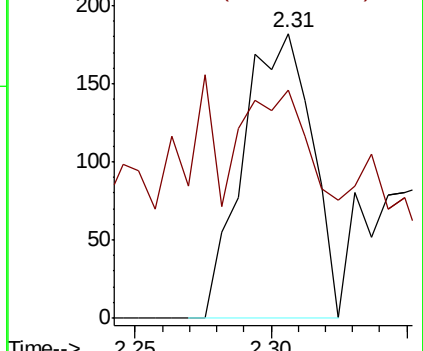
56 100

55 38.8 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 64.02 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.17 min

Lab File: VX004367.D

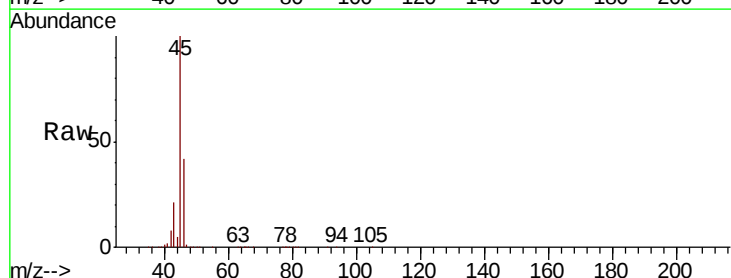
Acq: 05 Sep 2018 13:08

Tgt Ion: 43 Resp: 97713

Ion Ratio Lower Upper

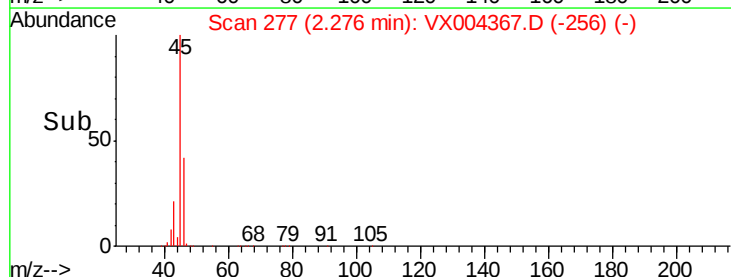
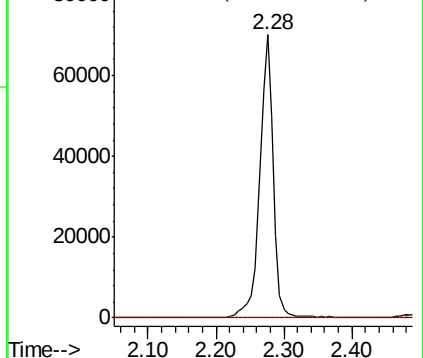
43 100

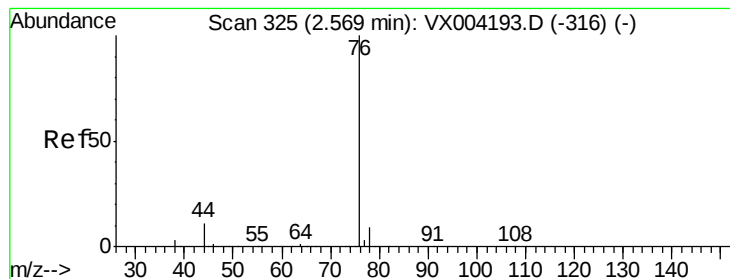
58 0.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.81 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

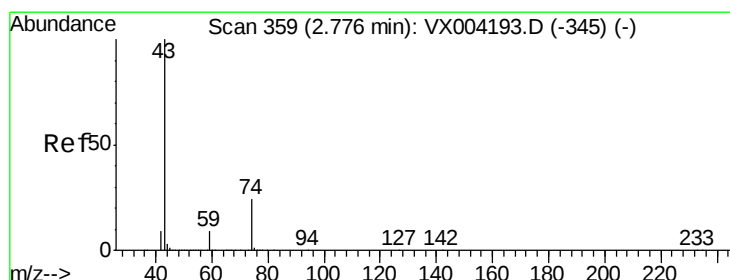
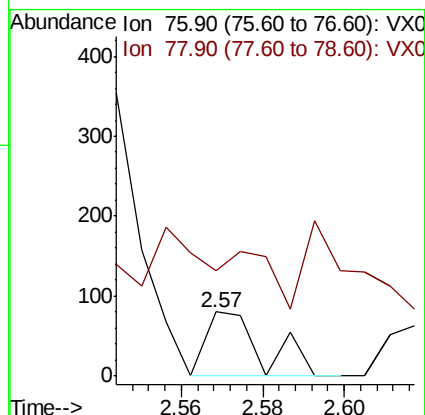
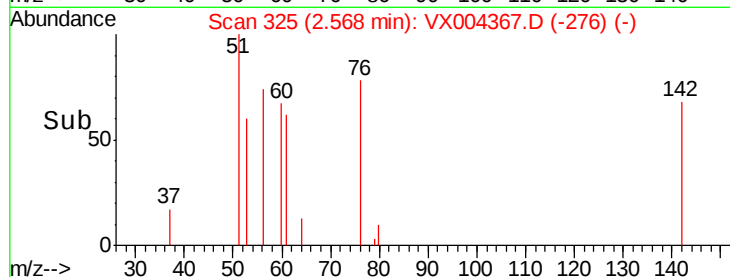
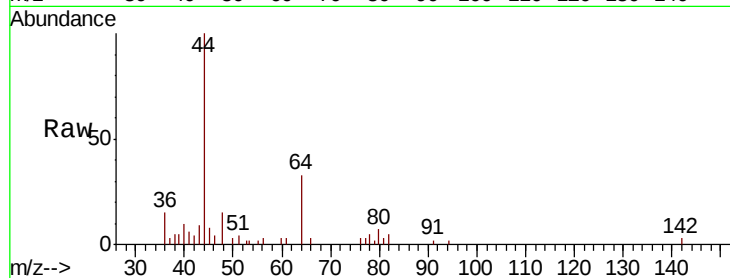
ClientSampled :

Tot Ion: 76 Resp: 77

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 0.83 ug/l

RT: 2.79 min Scan# 362

Delta R.T. 0.02 min

Lab File: VX004367.D

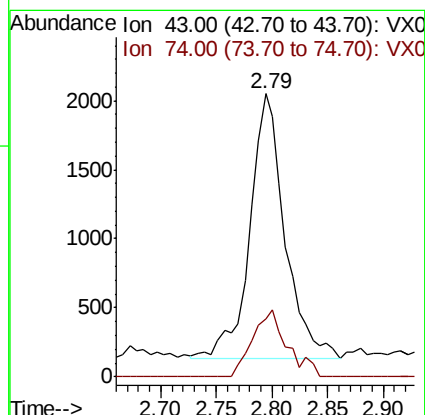
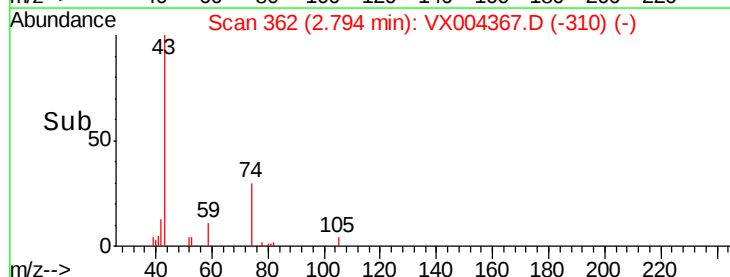
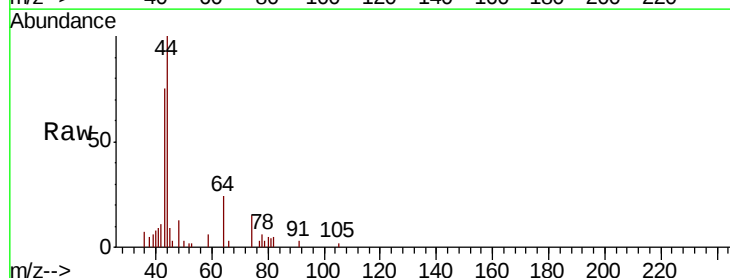
Acq: 05 Sep 2018 13:08

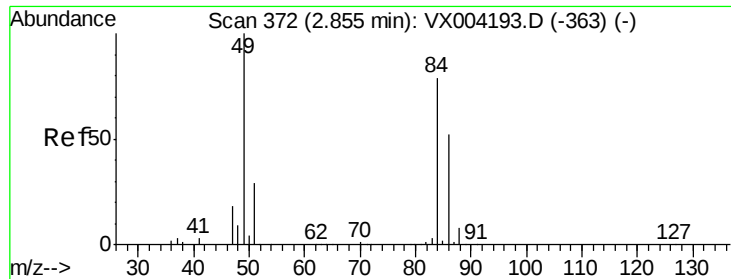
Tgt Ion: 43 Resp: 4186

Ion Ratio Lower Upper

43 100

74 25.1 19.4 29.2

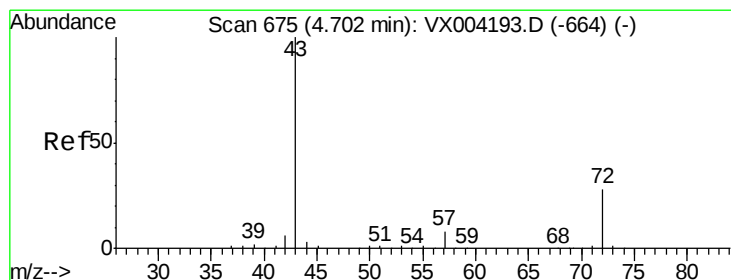
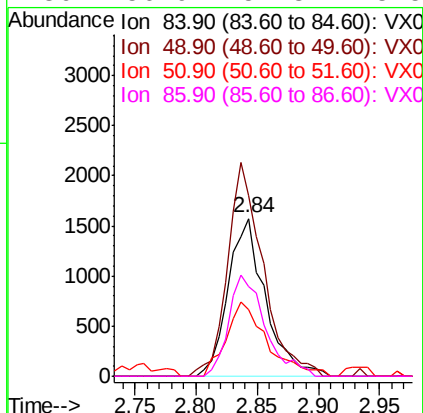
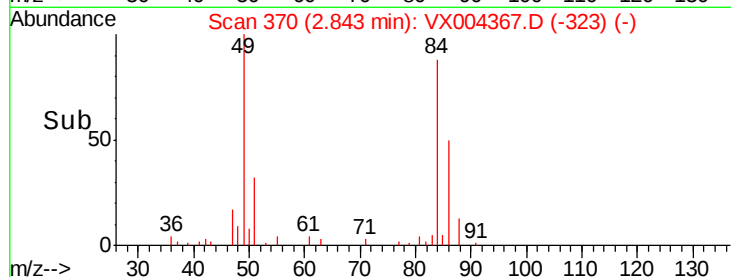
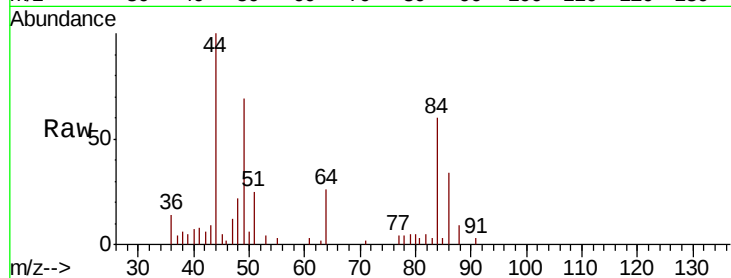




#20
Methvlene Chloride
Concen: 1.01 ua/l
RT: 2.84 min Scan# 370
Delta R.T. -0.01 min
Lab File: VX004367.D
Acq: 05 Sep 2018 13:08

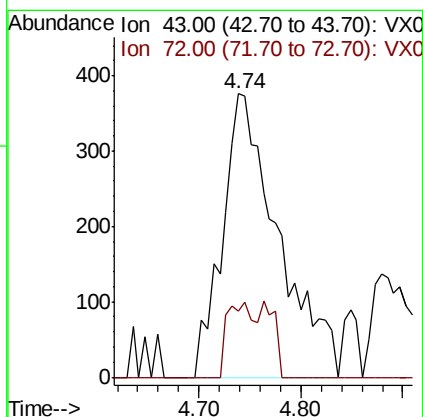
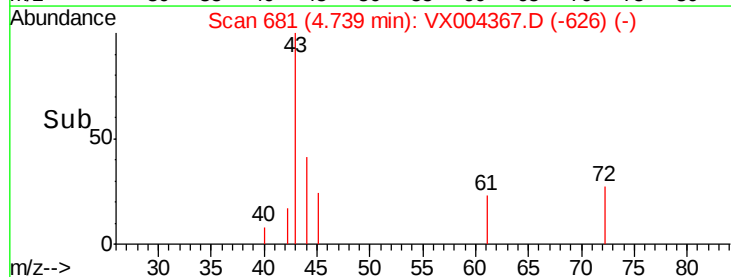
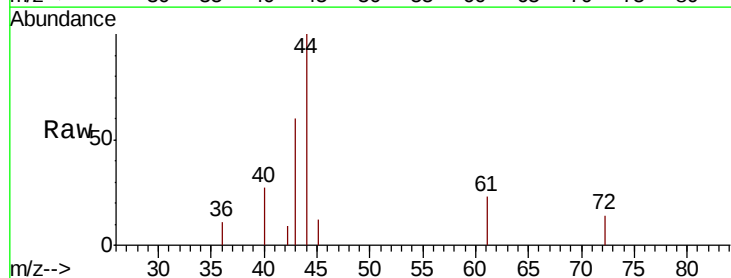
Instrument :
MSVOA_X
ClientSampled :

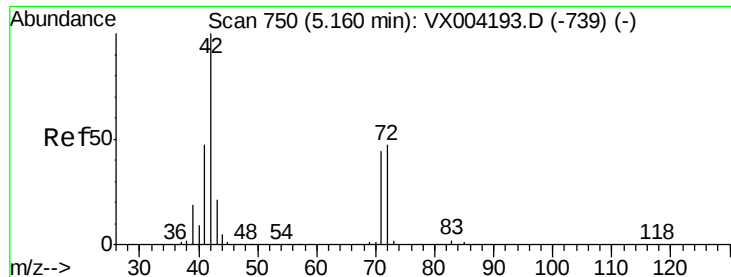
Tot Ion: 84 Resp: 3326
Ion Ratio Lower Upper
84 100
49 114.3 101.2 151.8
51 41.9 29.5 44.3
86 56.9 52.3 78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.74 min Scan# 681
Delta R.T. 0.04 min
Lab File: VX004367.D
Acq: 05 Sep 2018 13:08

Tgt Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
72 23.1 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.68 ug/l

RT: 5.20 min Scan# 757

Delta R.T. 0.04 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

ClientSampleId :

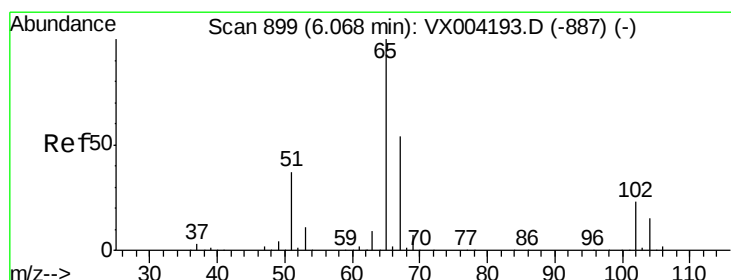
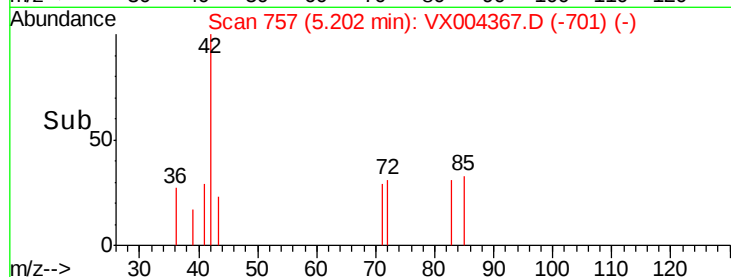
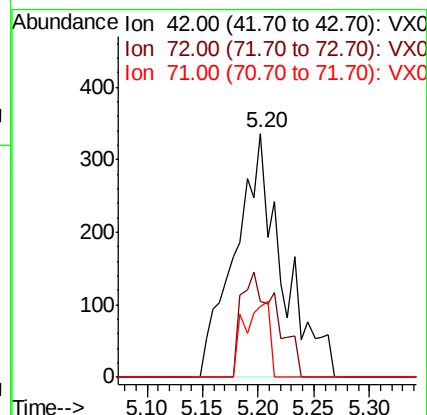
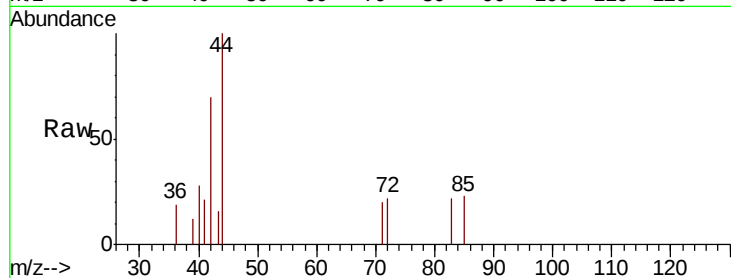
Tot Ion: 42 Resp: 992

Ion Ratio Lower Upper

42 100

72 32.0 37.4 56.0#

71 16.2 34.5 51.7#



#33

1,2-Dichloroethane-d4

Concen: 52.57 ug/l

RT: 6.06 min Scan# 898

Delta R.T. -0.01 min

Lab File: VX004367.D

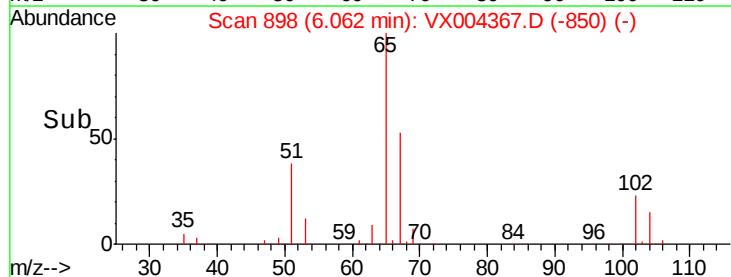
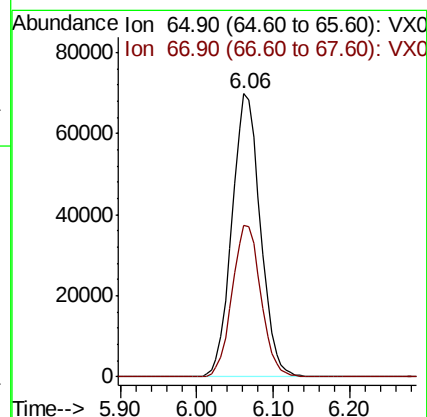
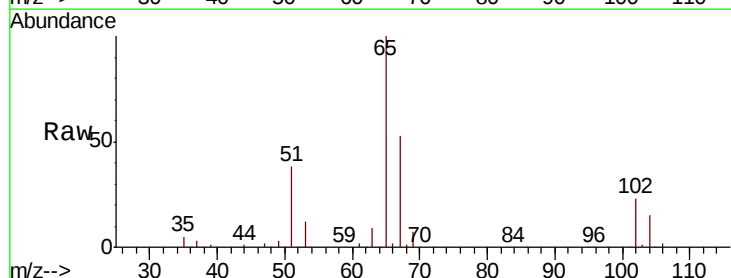
Acq: 05 Sep 2018 13:08

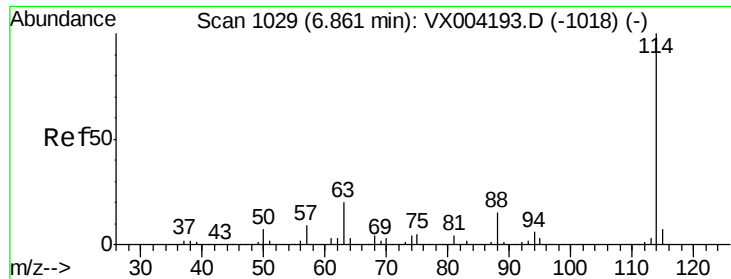
Tgt Ion: 65 Resp: 179675

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.8

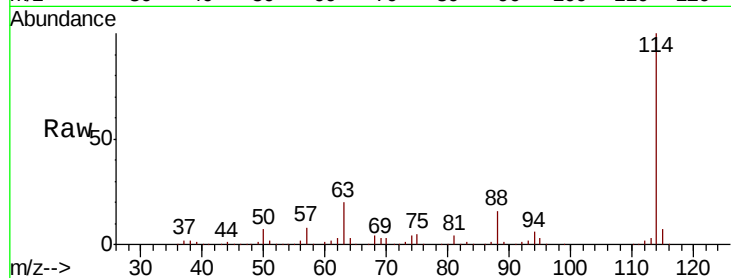




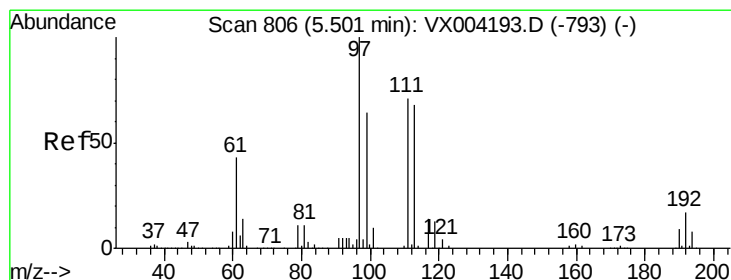
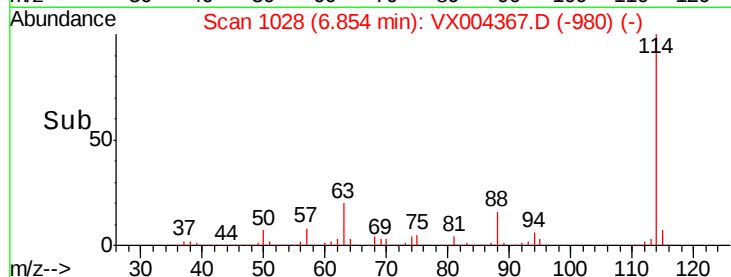
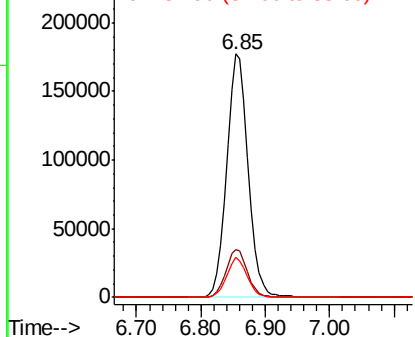
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: VX004367.D
 Acq: 05 Sep 2018 13:08

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 415995
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 16.2 0.0 30.4

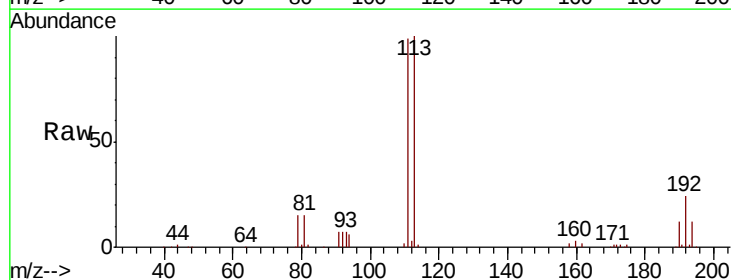


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

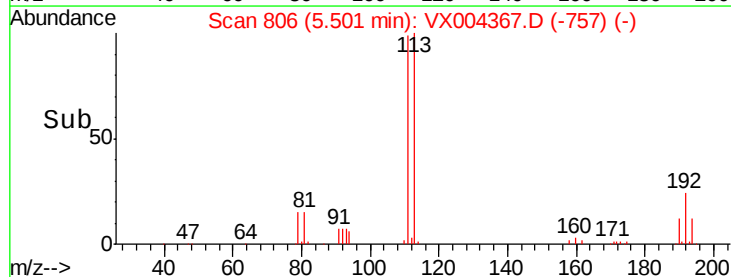
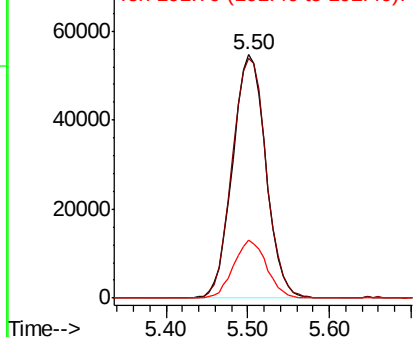


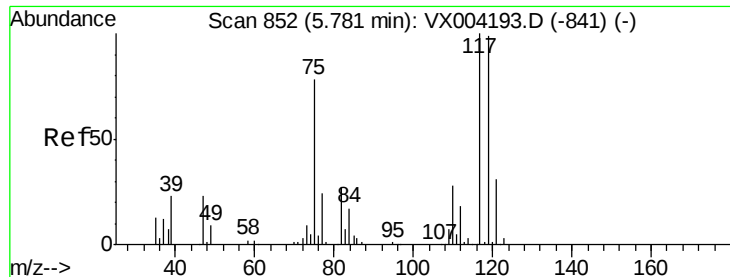
#35
 Dibromofluoromethane
 Concen: 49.80 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004367.D
 Acq: 05 Sep 2018 13:08

Tgt Ion:113 Resp: 154113
 Ion Ratio Lower Upper
 113 100
 111 100.7 82.4 123.6
 192 23.7 19.4 29.2



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





#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.13 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

ClientSampleId :

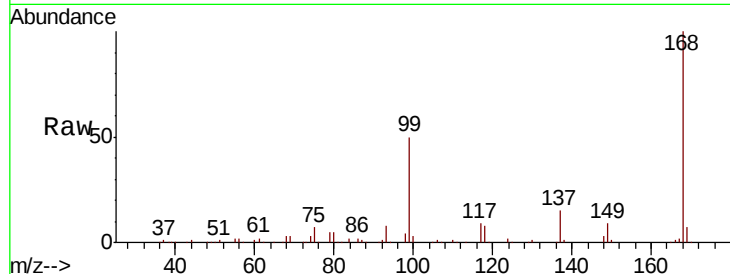
Tot Ion:117 Resp: 22984

Ion Ratio Lower Upper

117 100

119 5.1 78.8 118.2#

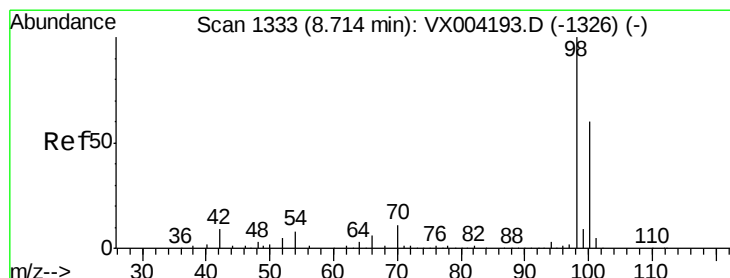
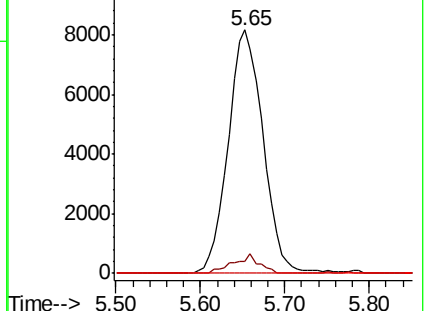
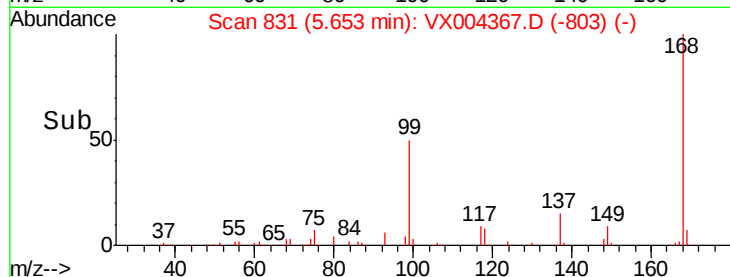
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 50.99 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004367.D

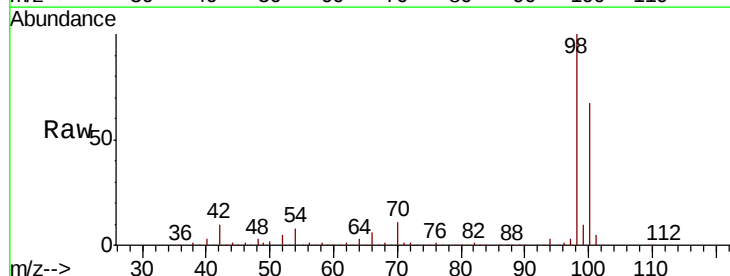
Acq: 05 Sep 2018 13:08

Tgt Ion: 98 Resp: 595642

Ion Ratio Lower Upper

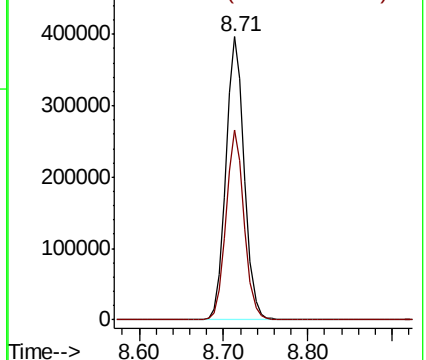
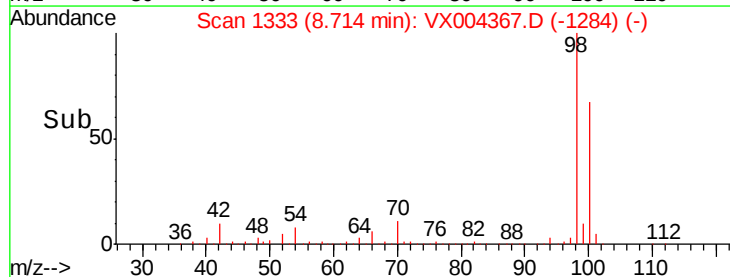
98 100

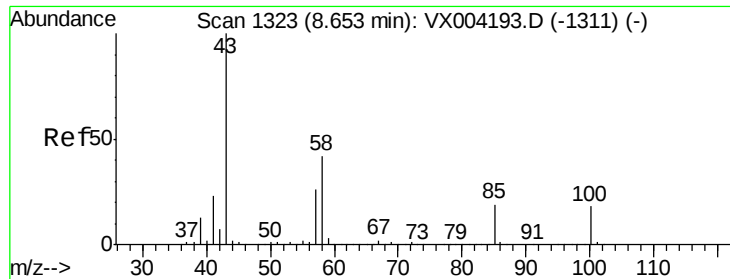
100 65.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.49 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

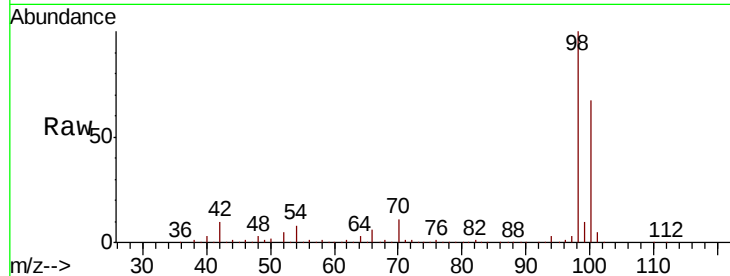
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 2537

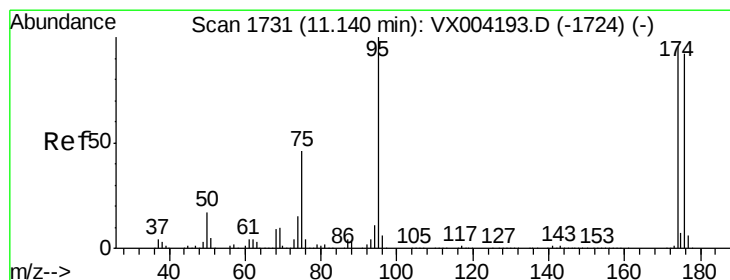
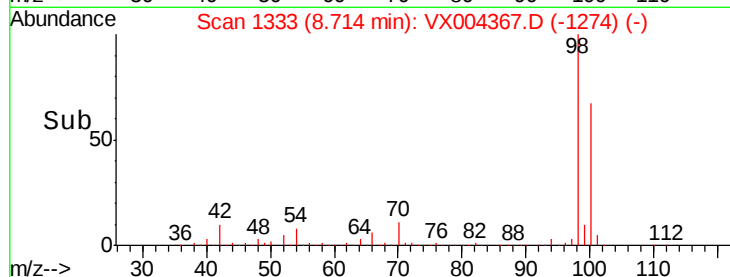
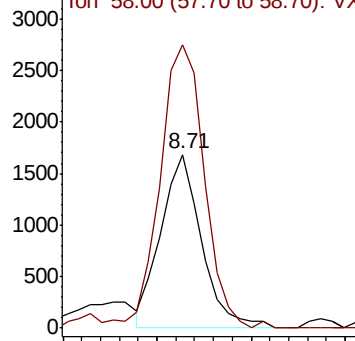
Ion Ratio Lower Upper

43 100

58 174.5 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 54.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

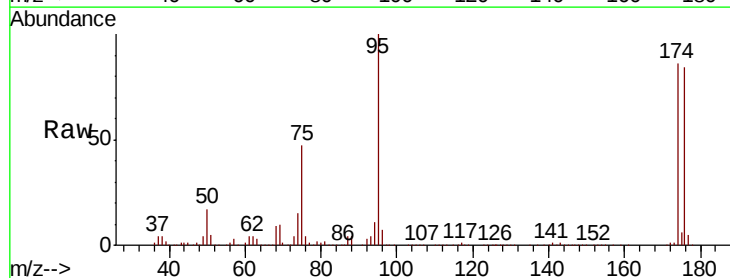
Tgt Ion: 95 Resp: 239061

Ion Ratio Lower Upper

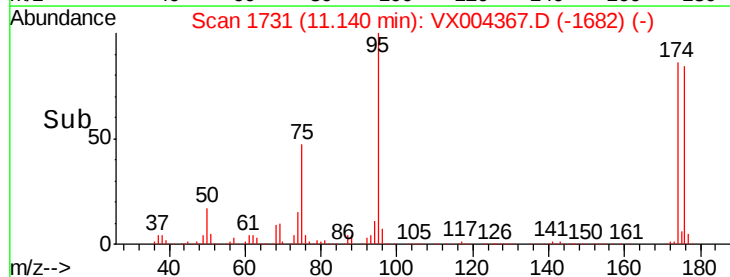
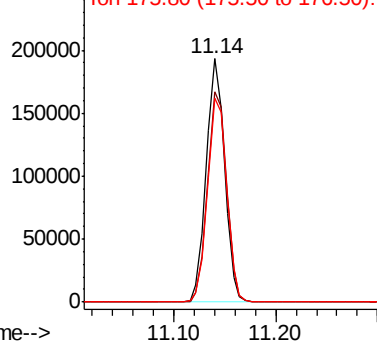
95 100

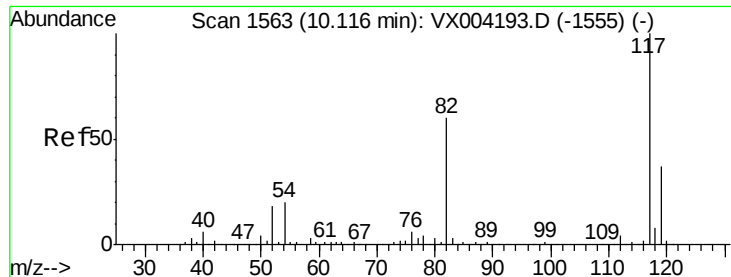
174 90.4 0.0 185.2

176 87.5 0.0 178.6



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

ClientSampleId :

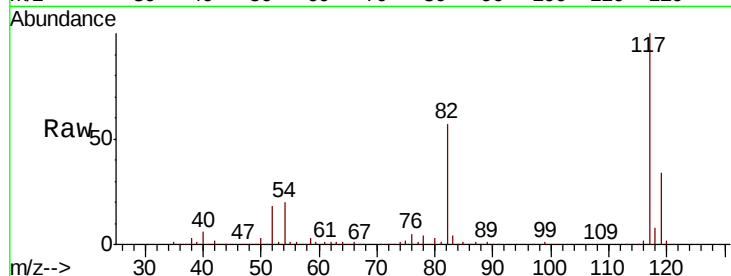
Tot Ion:117 Resp: 411595

Ion Ratio Lower Upper

117 100

82 57.0 47.8 71.6

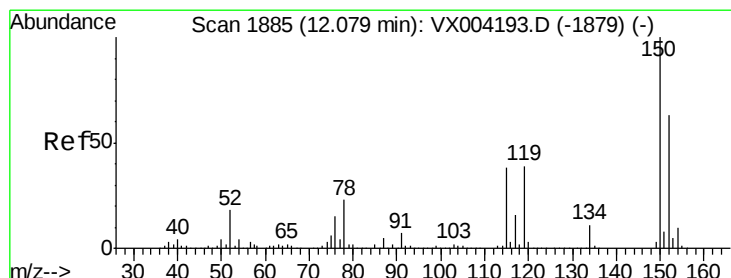
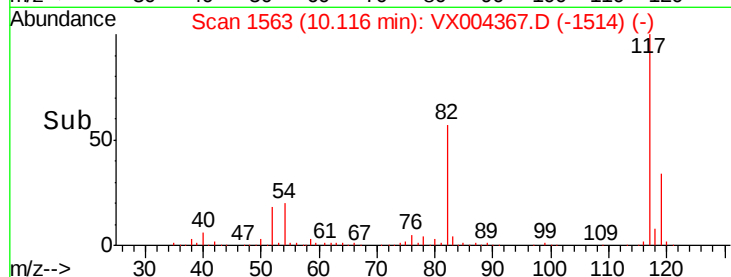
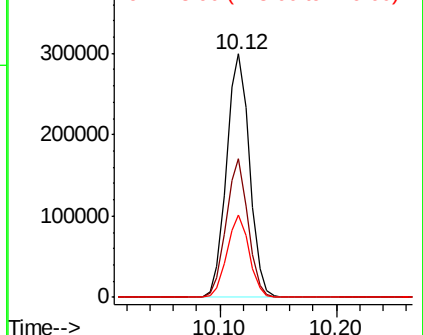
119 33.9 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

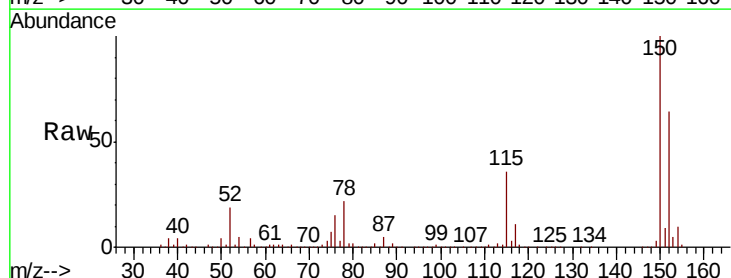
Tgt Ion:152 Resp: 264948

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

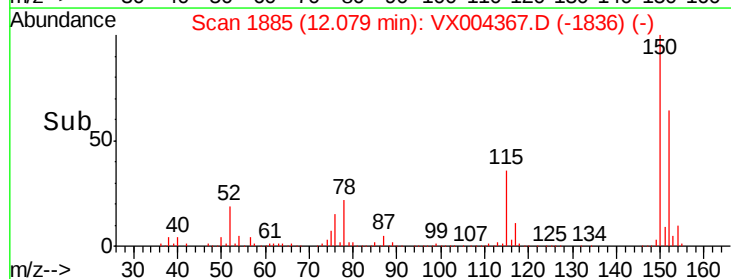
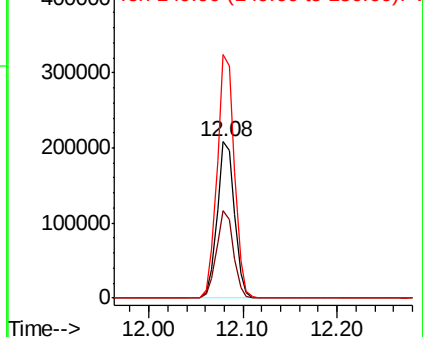
150 155.5 0.0 351.0

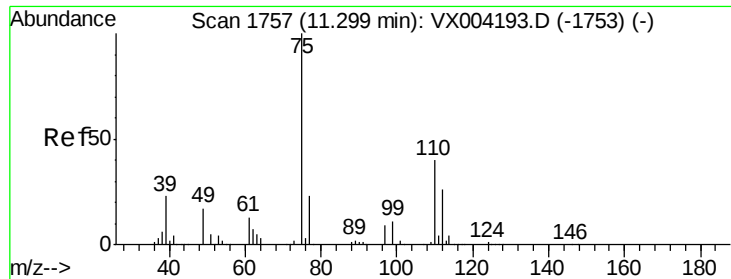


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

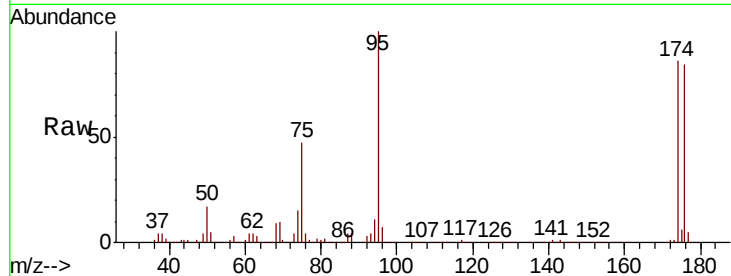
ClientSampleId :

Tot Ion: 75 Resp: 111327

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

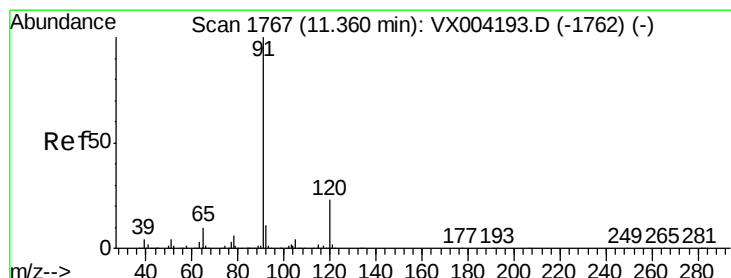
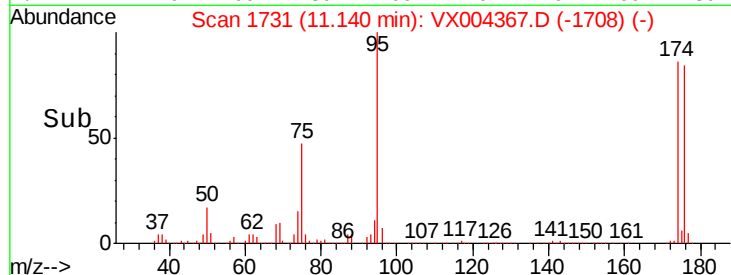
60000

40000

20000

0

Time-->



#78

n-propylbenzene

Concen: 0.23 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004367.D

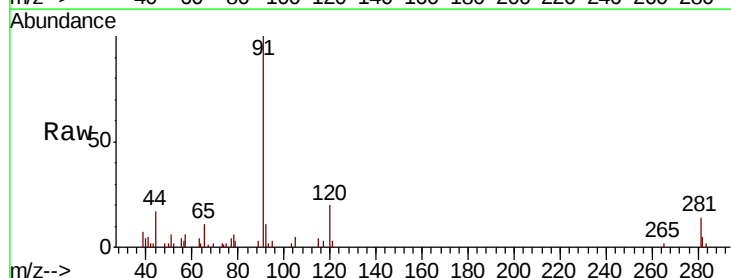
Acq: 05 Sep 2018 13:08

Tgt Ion: 91 Resp: 4531

Ion Ratio Lower Upper

91 100

120 24.0 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.36

4000

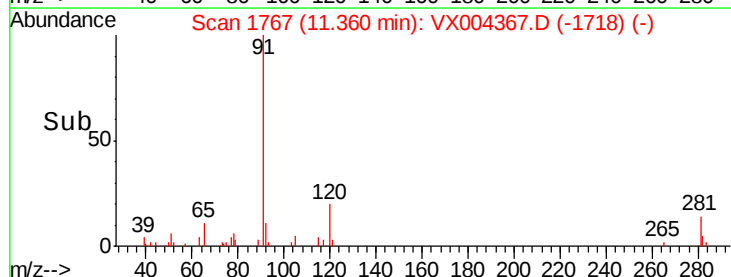
3000

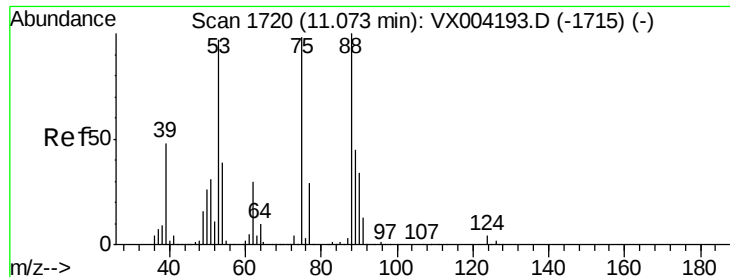
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 67.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

ClientSampleId :

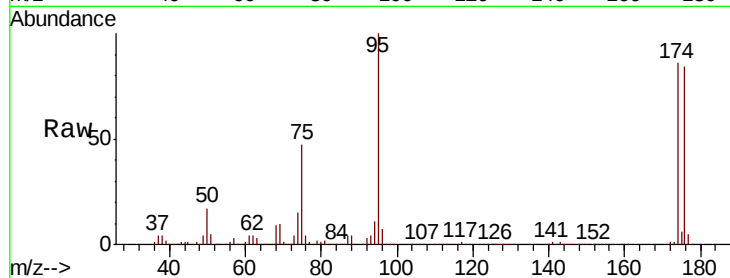
Tot Ion: 75 Resp: 111327

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

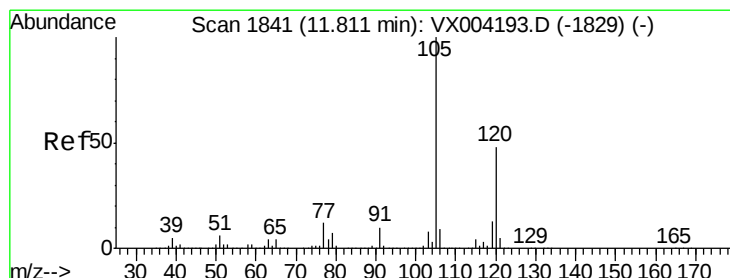
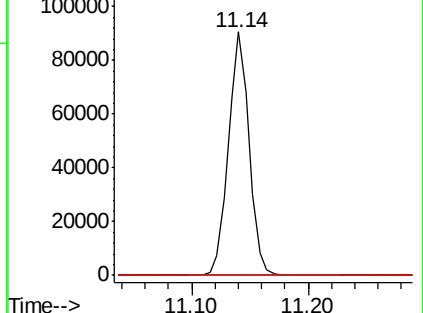
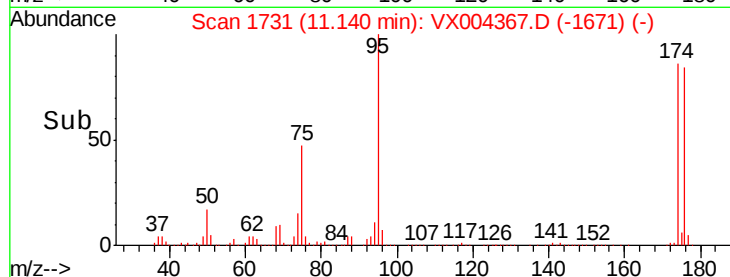
89 0.0 37.2 55.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.87 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX004367.D

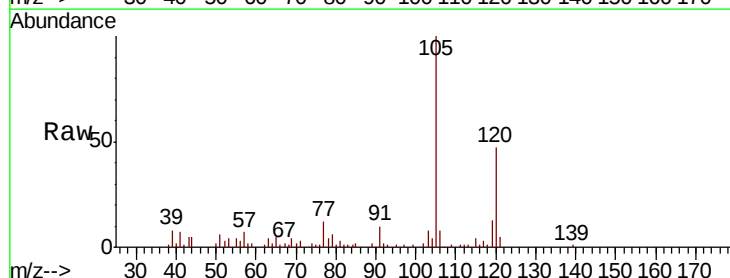
Acq: 05 Sep 2018 13:08

Tgt Ion: 105 Resp: 12804

Ion Ratio Lower Upper

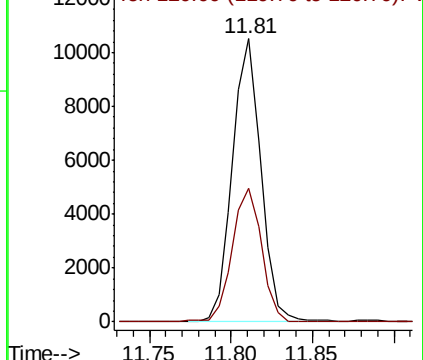
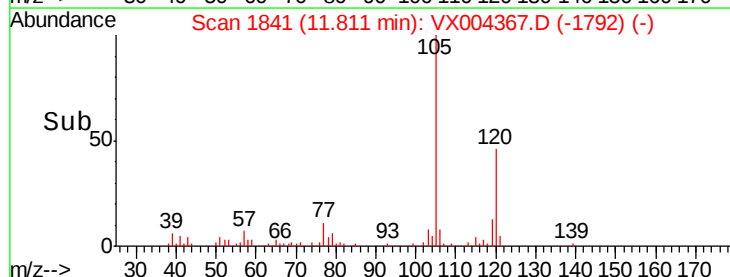
105 100

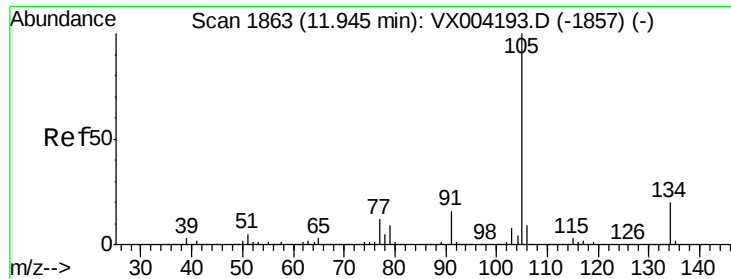
120 48.5 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

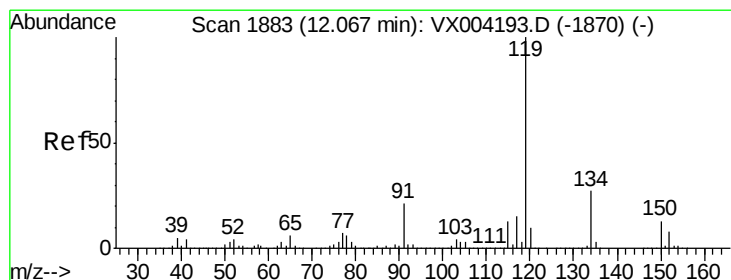
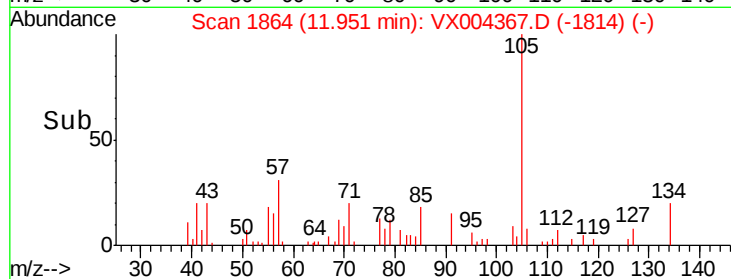
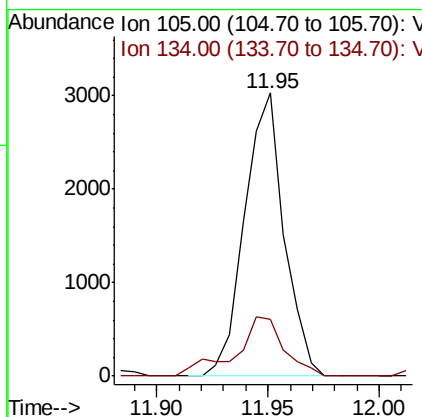
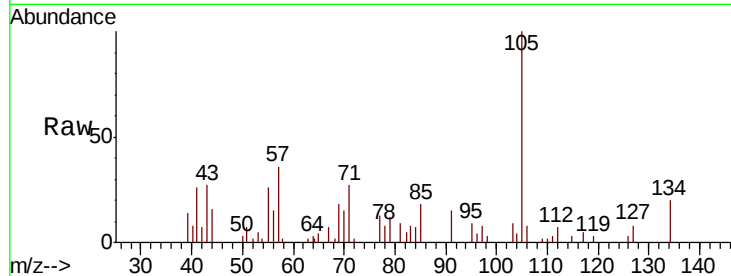




#85
 sec-Butylbenzene
 Concen: 0.22 ug/l
 RT: 11.95 min Scan# 1864
 Delta R.T. 0.01 min
 Lab File: VX004367.D
 Acq: 05 Sep 2018 13:08

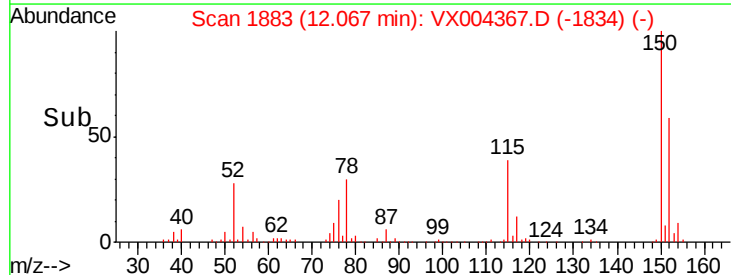
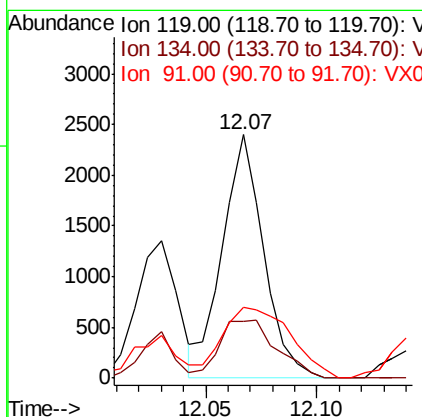
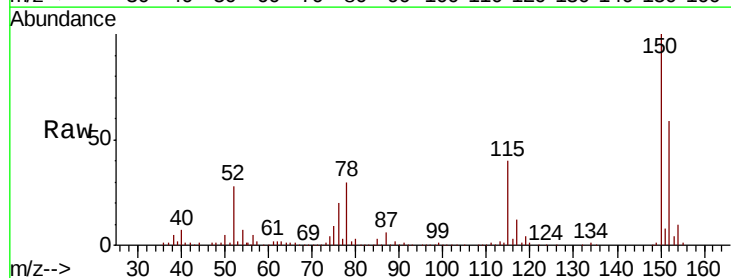
Instrument :
 MSVOA_X
 ClientSampleId :

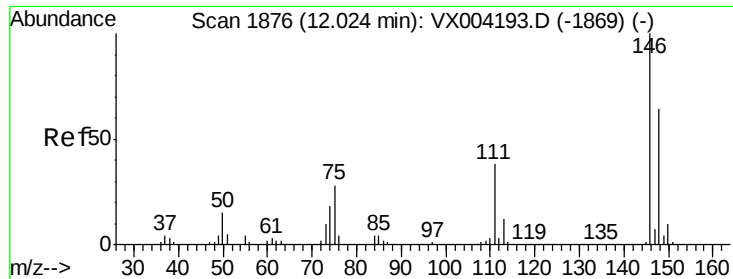
Tot Ion:105 Resp: 3753
 Ion Ratio Lower Upper
 105 100
 134 25.7 10.5 31.5



#86
 p-Isopropyltoluene
 Concen: 0.20 ug/l
 RT: 12.07 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VX004367.D
 Acq: 05 Sep 2018 13:08

Tgt Ion:119 Resp: 3091
 Ion Ratio Lower Upper
 119 100
 134 33.2 13.4 40.2
 91 48.8 10.9 32.7#





#87

1,3-Dichlorobenzene

Concen: 0.21 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.01 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

Instrument :

MSVOA_X

ClientSampleId :

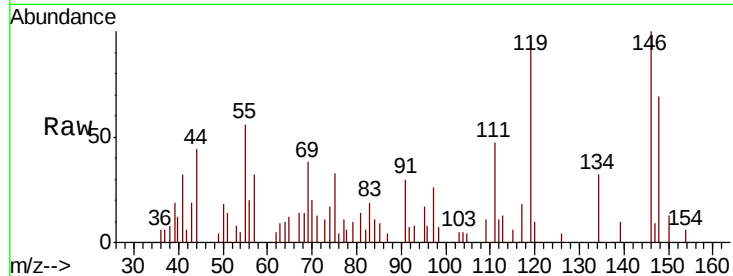
Tot Ion:146 Resp: 1894

Ion Ratio Lower Upper

146 100

111 39.6 18.7 56.1

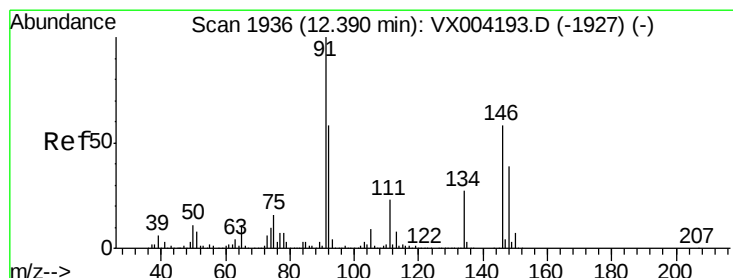
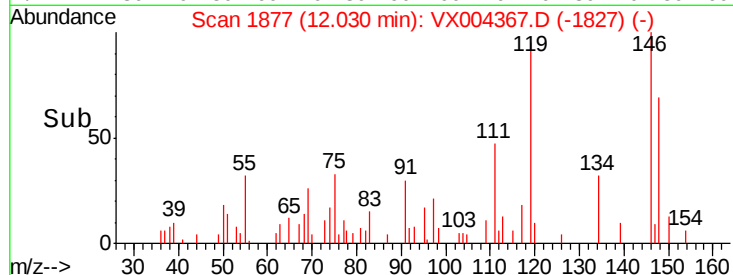
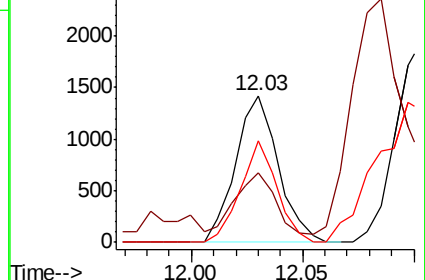
148 59.4 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.39 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. -0.00 min

Lab File: VX004367.D

Acq: 05 Sep 2018 13:08

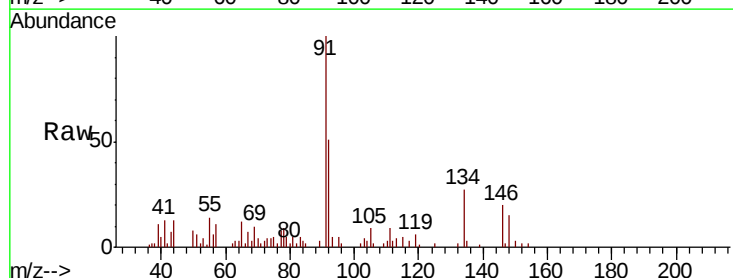
Tgt Ion: 91 Resp: 4895

Ion Ratio Lower Upper

91 100

92 48.6 27.3 81.9

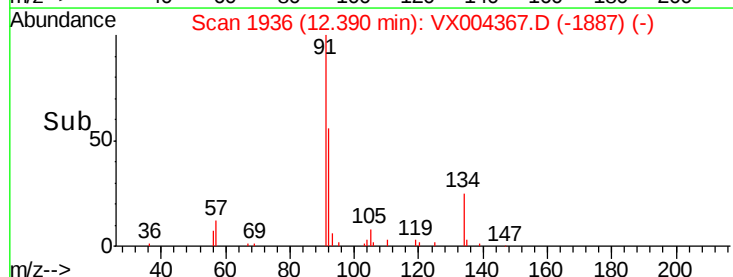
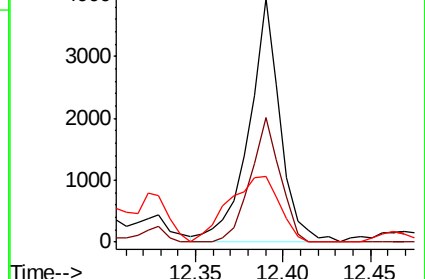
134 43.7 13.6 40.7#

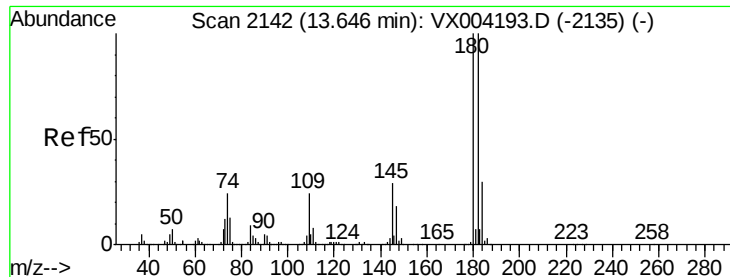


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V

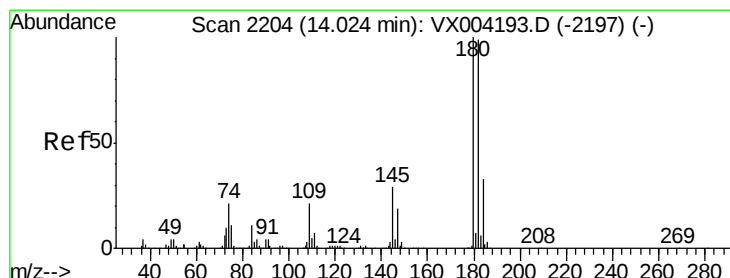
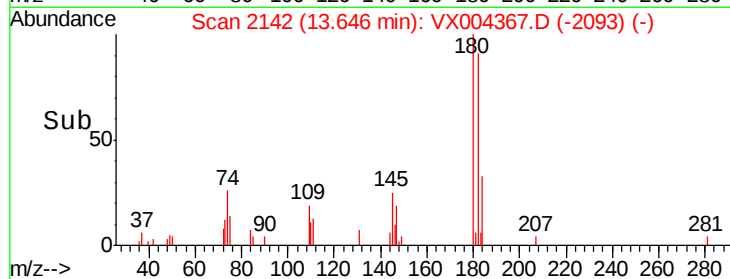
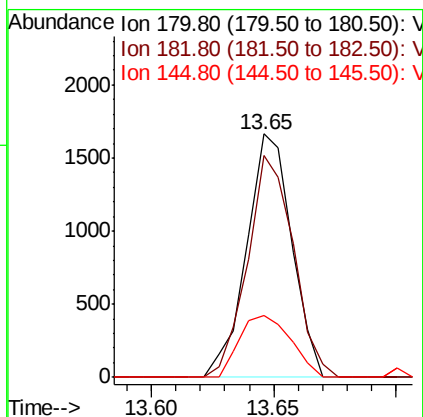
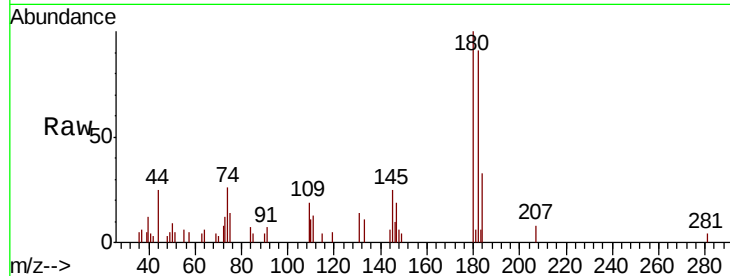




#93
 1,2,4-Trichlorobenzene
 Concen: 0.35 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VX004367.D
 Acq: 05 Sep 2018 13:08

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.3	48.4	145.0
145	28.7	14.3	42.9



#96
 1,2,3-Trichlorobenzene
 Concen: 0.25 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VX004367.D
 Acq: 05 Sep 2018 13:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.2	48.5	145.6
145	32.0	14.9	44.9

