

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005545.D
 Acq On : 24 Oct 2018 16:59
 Operator : JC/MD
 Sample : PB114120ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114120ZHE#12

Quant Time: Oct 25 04:54:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210567	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	324812	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	294830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136685	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	136678	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	
35) Dibromofluoromethane	5.50	113	103663	47.13	ug/l	0.00
Spiked Amount			Recovery	=	94.26%	
50) Toluene-d8	8.71	98	389859	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	11.14	95	128297	42.99	ug/l	0.00
Spiked Amount			Recovery	=	85.98%	

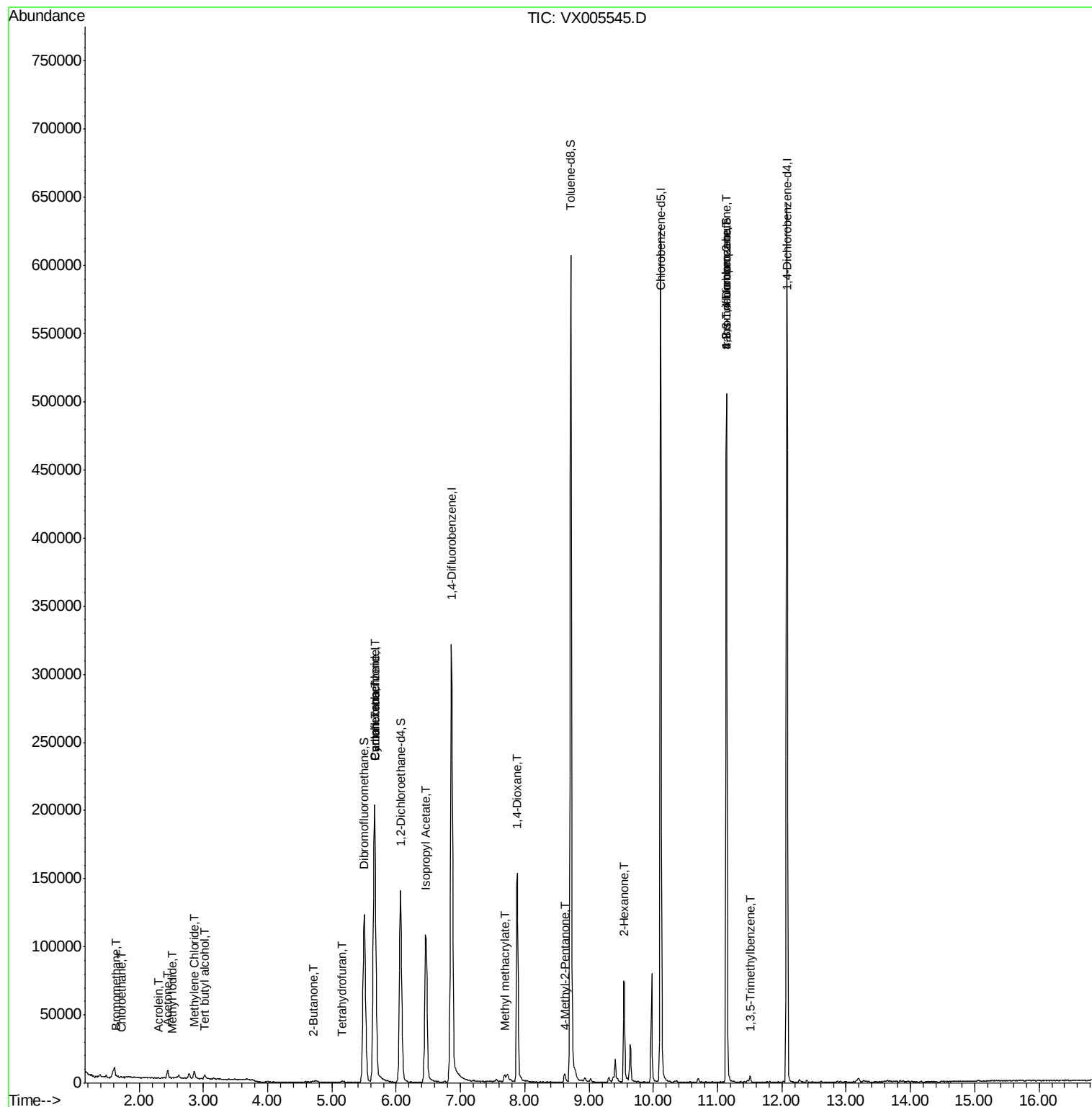
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	613	0.379	ug/l	94
6) Chloroethane	1.72	64	1345	0.809	ug/l #	44
10) Methyl Iodide	2.53	142	194	2.810	ug/l #	57
11) Tert butyl alcohol	3.02	59	1636	2.365	ug/l #	76
13) Acrolein	2.31	56	80	0.227	ug/l #	1
16) Acetone	2.45	43	5794	4.266	ug/l	91
18) Methyl Acetate	2.78	43	4676	Below Cal		94
20) Methylene Chloride	2.85	84	2207	0.970	ug/l	95
25) 2-Butanone	4.70	43	1502	0.726	ug/l	94
29) Tetrahydrofuran	5.15	42	1066	0.792	ug/l #	63
31) Cyclohexane	5.67	56	4050	1.169	ug/l #	1
38) Carbon Tetrachloride	5.67	117	18854	5.679	ug/l #	17
43) Isopropyl Acetate	6.46	43	151754	25.176	ug/l	95
48) Methyl methacrylate	7.68	41	5883	2.003	ug/l #	21
49) 1,4-Dioxane	7.89	88	22	0.343	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2104	0.519	ug/l #	42
59) 2-Hexanone	9.54	43	9264	2.900	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	65353	23.474	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1567	0.219	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	65353	73.736	ug/l #	10

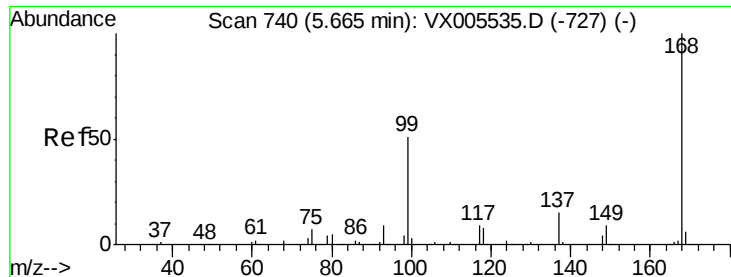
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 13:13:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

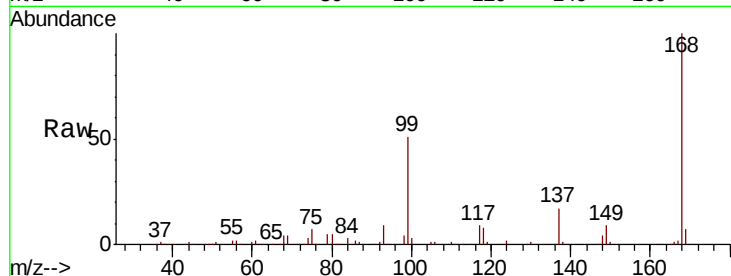
PB114120ZHE#12

Tot Ion:168 Resp: 210567

Ion Ratio Lower Upper

168 100

99 51.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

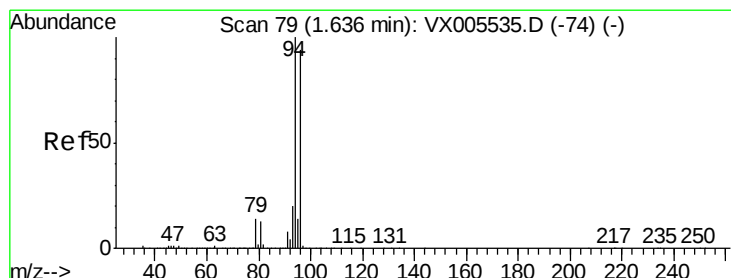
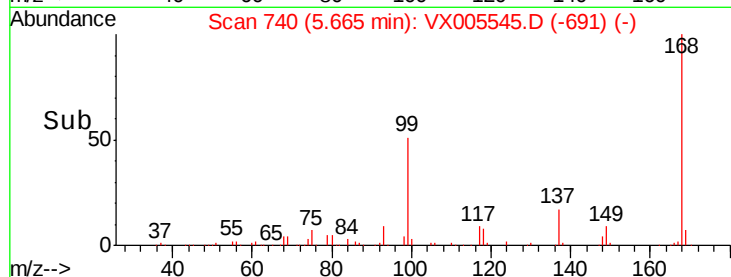
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.379 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005545.D

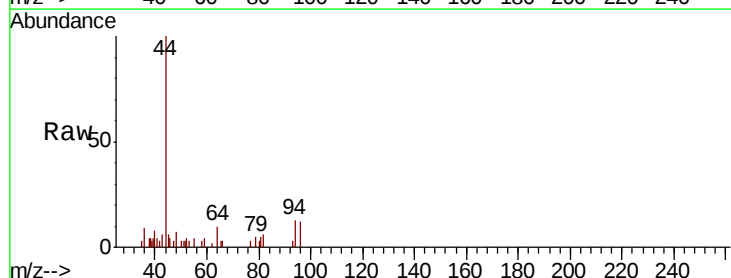
Acq: 24 Oct 2018 16:59

Tgt Ion: 94 Resp: 613

Ion Ratio Lower Upper

94 100

96 87.8 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

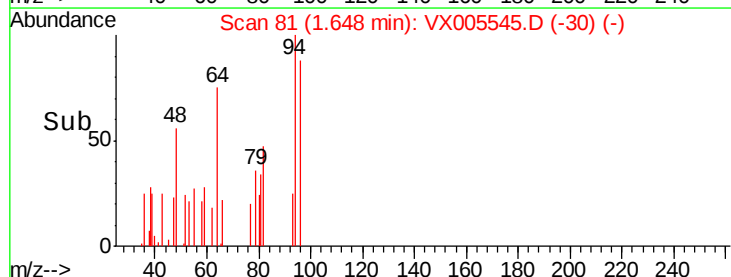
200

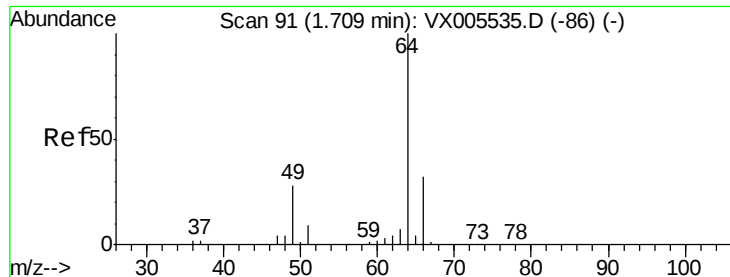
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.809 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

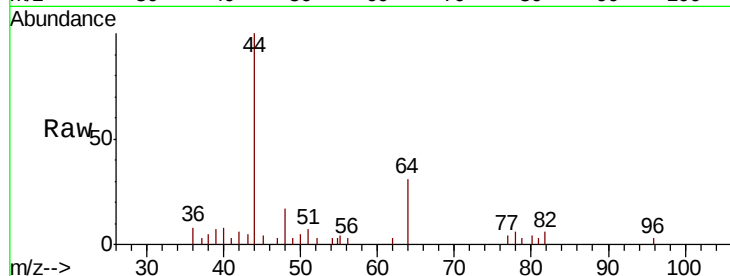
PB114120ZHE#12

Tot Ion: 64 Resp: 1345

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

0

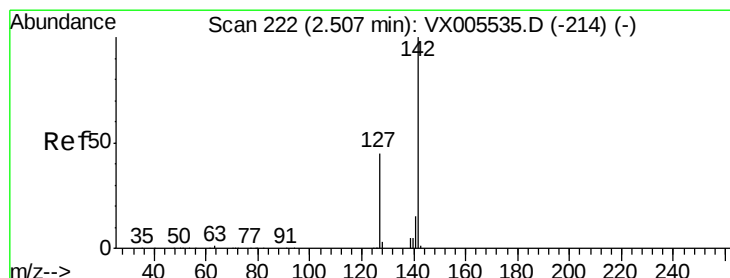
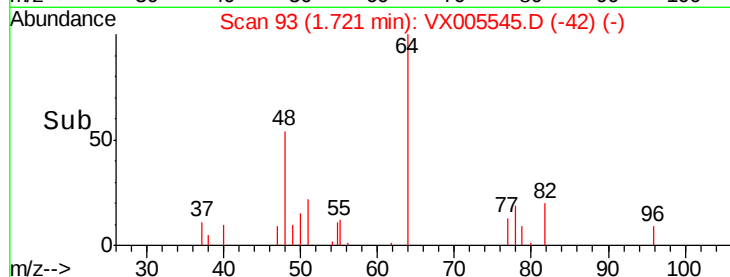
1.60

1.65

1.70

1.75

Time-->



#10

Methyl Iodide

Concen: 2.810 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

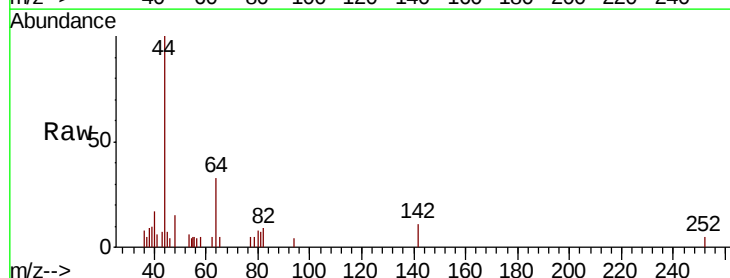
Tgt Ion:142 Resp: 194

Ion Ratio Lower Upper

142 100

127 13.4 33.8 50.6#

141 0.0 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

150

100

50

0

2.48

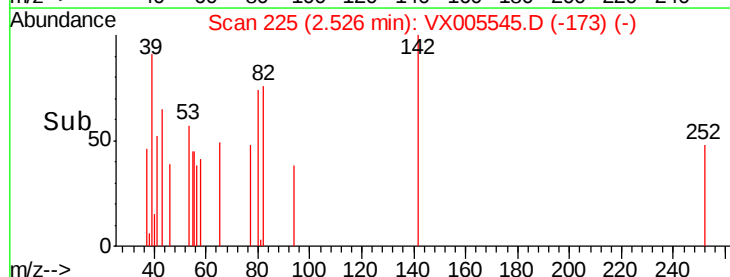
2.50

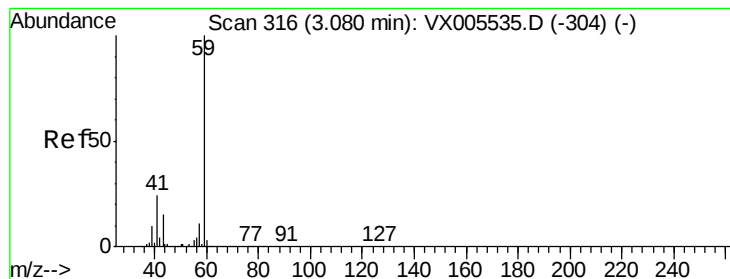
2.52

2.54

2.56

Time-->



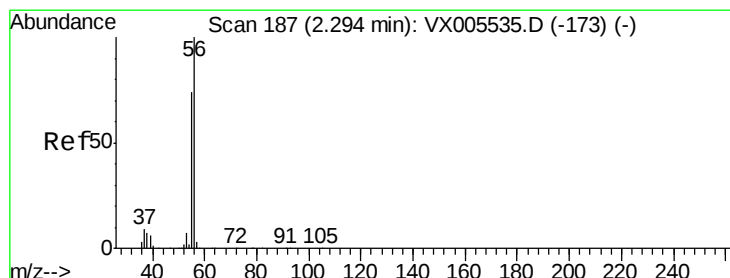
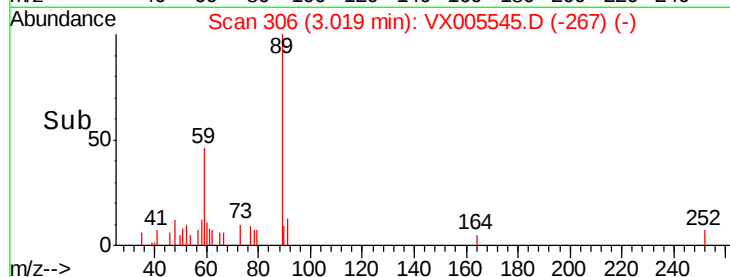
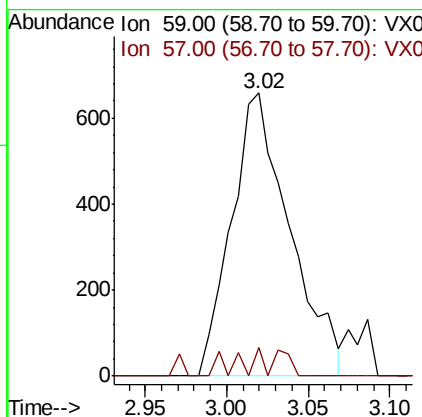
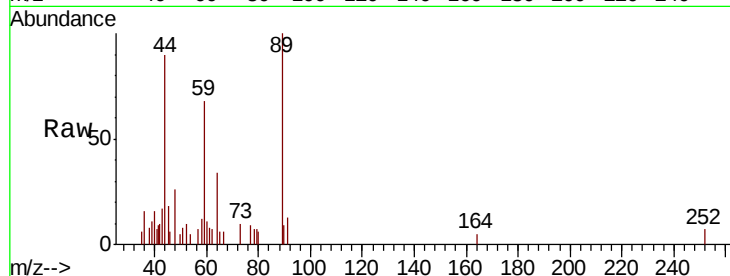


#11

Tert butyl alcohol
 Concen: 2.365 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005545.D
 Acq: 24 Oct 2018 16:59

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114120ZHE#12

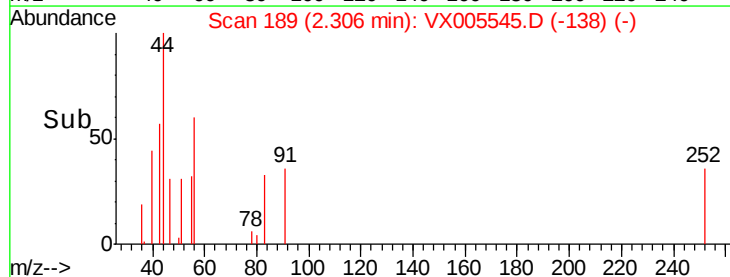
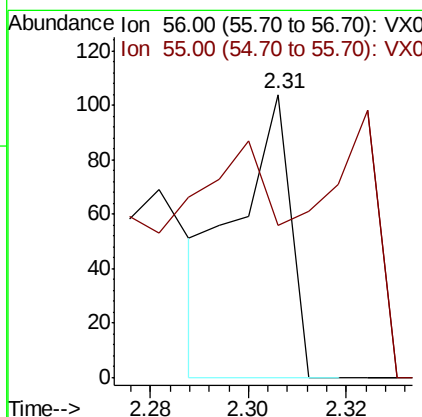
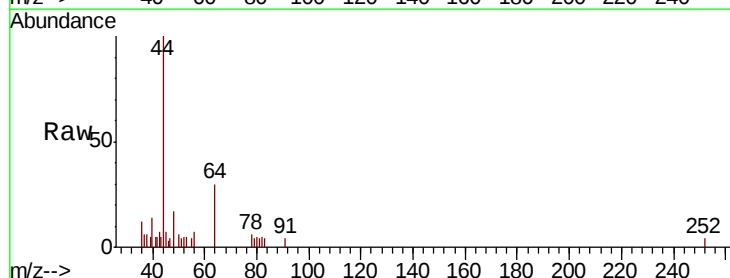
Tot Ion: 59 Resp: 1636
 Ion Ratio Lower Upper
 59 100
 57 1.5 8.2 12.4#

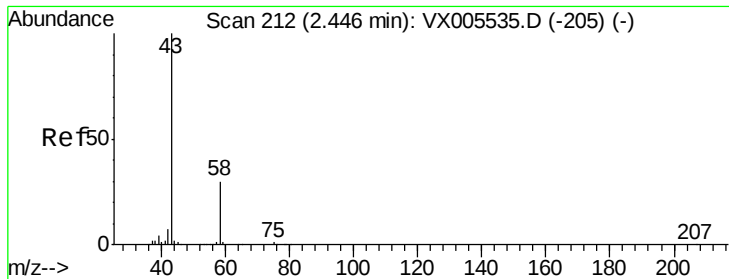


#13

Acrolein
 Concen: 0.227 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX005545.D
 Acq: 24 Oct 2018 16:59

Tgt Ion: 56 Resp: 80
 Ion Ratio Lower Upper
 56 100
 55 180.0 54.7 82.1#





#16

Acetone

Concen: 4.266 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

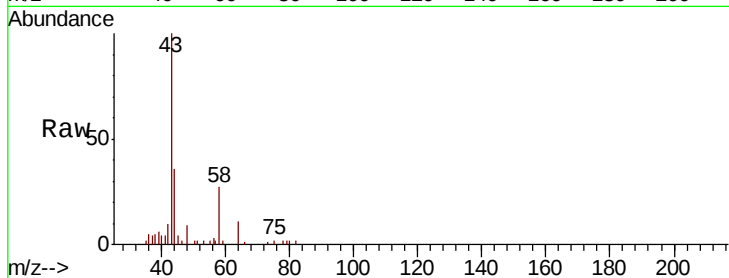
PB114120ZHE#12

Tot Ion: 43 Resp: 5794

Ion Ratio Lower Upper

43 100

58 28.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

4000

3000

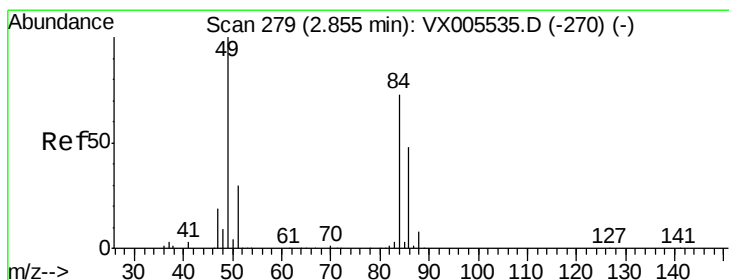
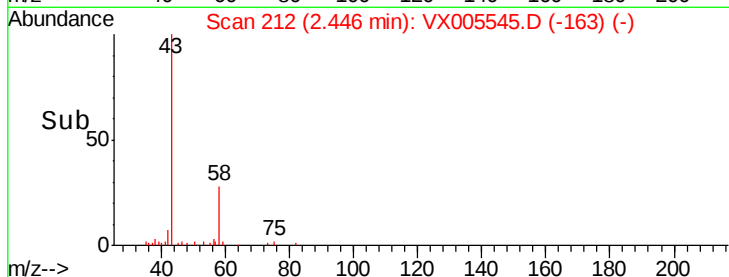
2000

1000

0

Time-->

2.40 2.45 2.50



#20

Methylene Chloride

Concen: 0.970 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Tgt Ion: 84 Resp: 2207

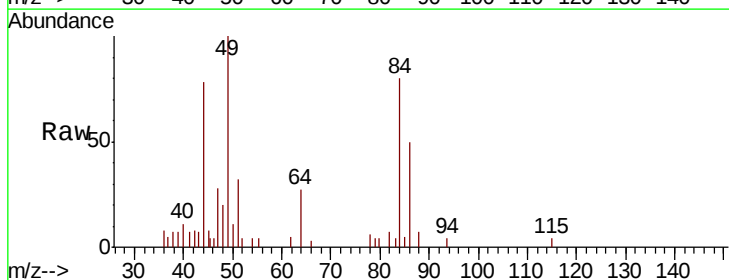
Ion Ratio Lower Upper

84 100

49 119.9 101.2 151.8

51 35.5 29.5 44.3

86 62.0 52.3 78.5



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

2500

2000

1500

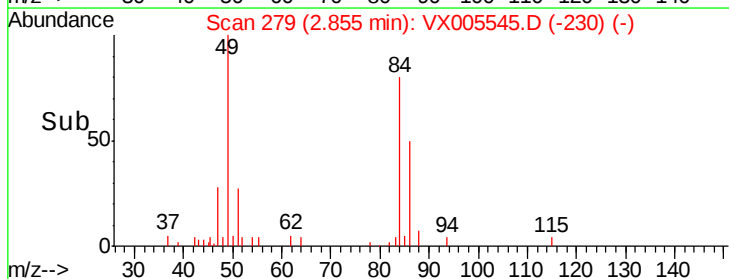
1000

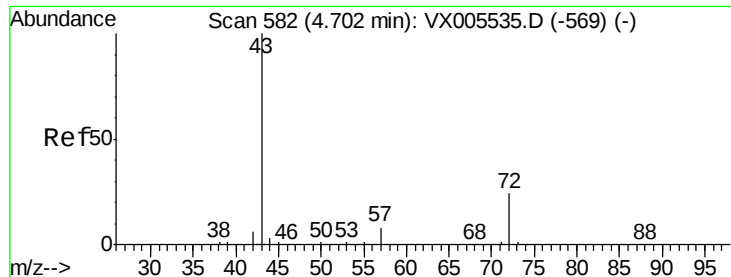
500

0

Time-->

2.80 2.85 2.90





#25

2-Butanone

Concen: 0.726 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

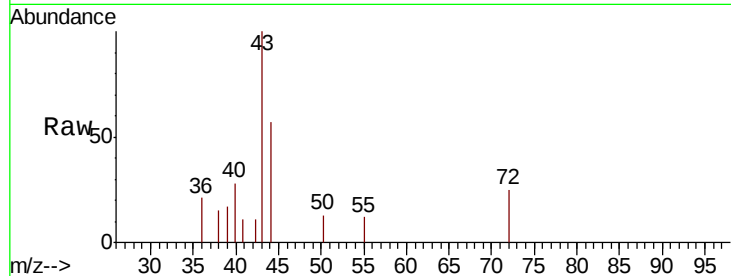
PB114120ZHE#12

Tot Ion: 43 Resp: 1502

Ion Ratio Lower Upper

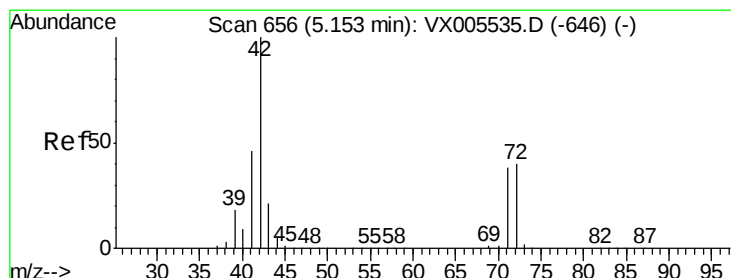
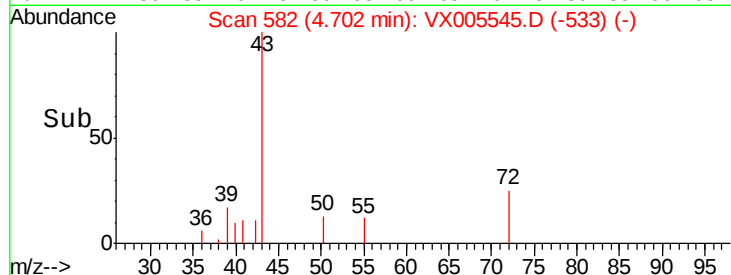
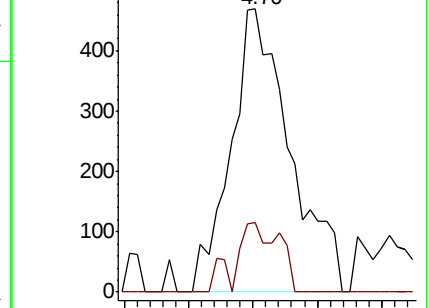
43 100

72 24.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.792 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

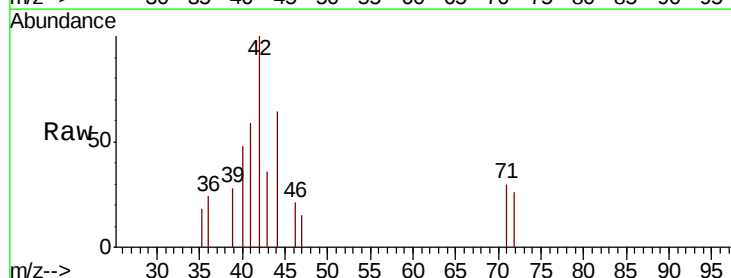
Tgt Ion: 42 Resp: 1066

Ion Ratio Lower Upper

42 100

72 22.3 37.4 56.0#

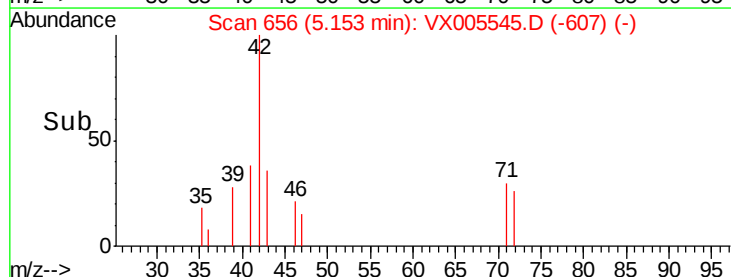
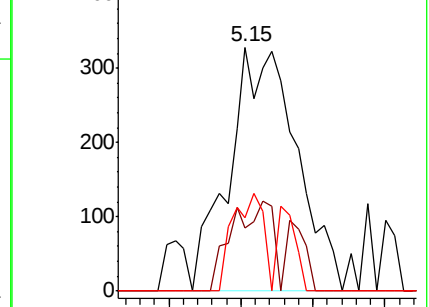
71 18.5 34.5 51.7#

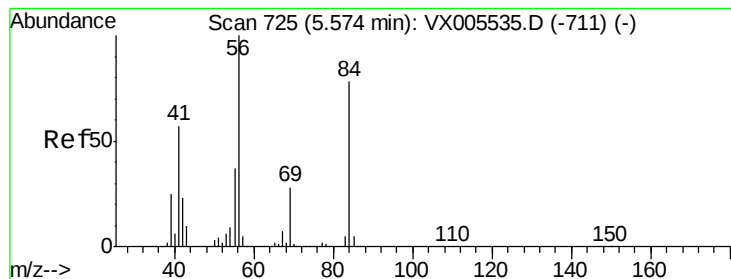


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.169 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

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PB114120ZHE#12

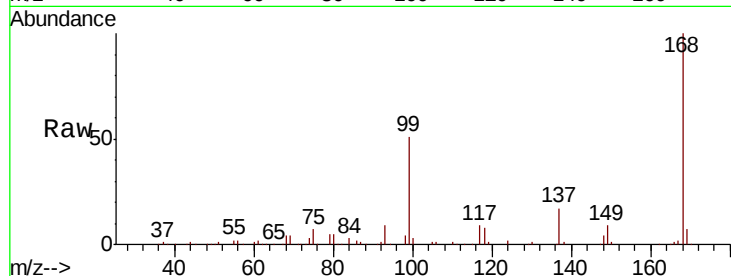
Tot Ion: 56 Resp: 4050

Ion Ratio Lower Upper

56 100

69 177.3 25.4 38.2#

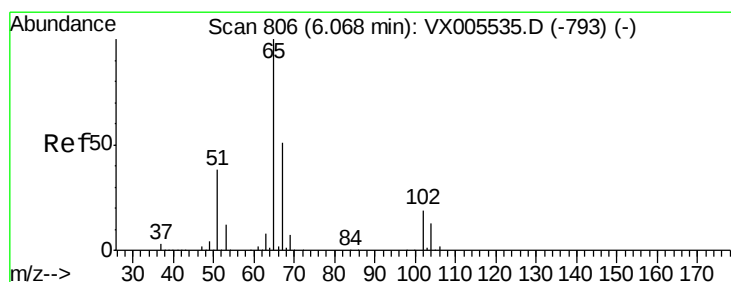
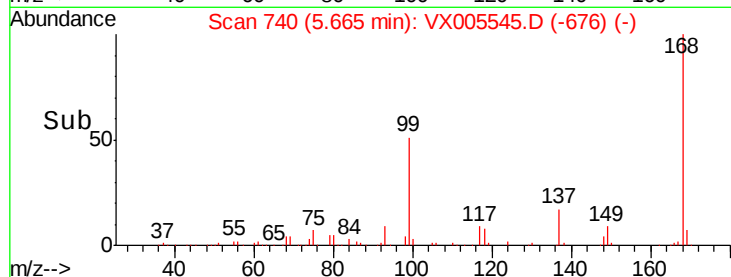
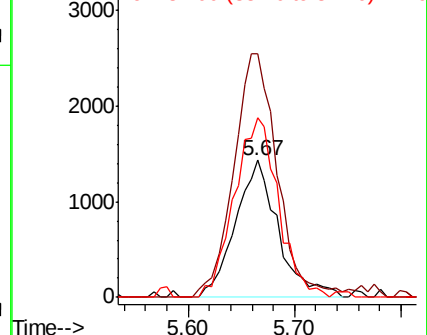
84 130.7 71.4 107.2#



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: 53.174 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005545.D

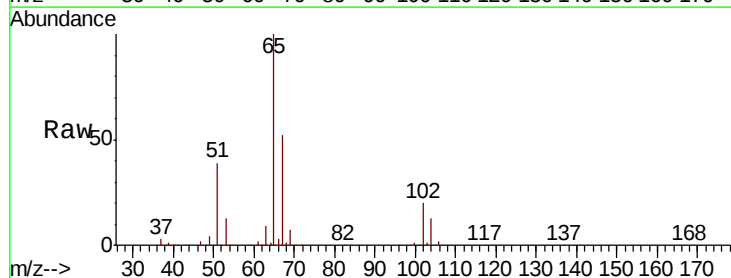
Acq: 24 Oct 2018 16:59

Tgt Ion: 65 Resp: 136678

Ion Ratio Lower Upper

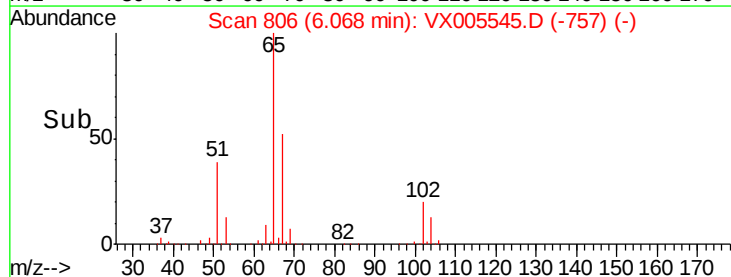
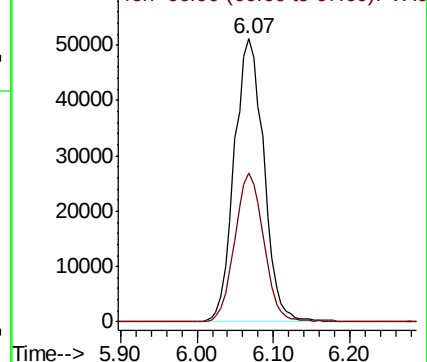
65 100

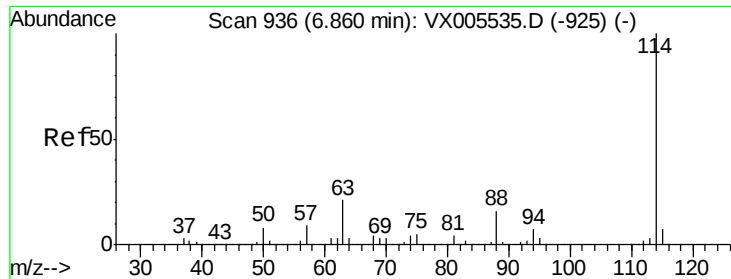
67 51.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

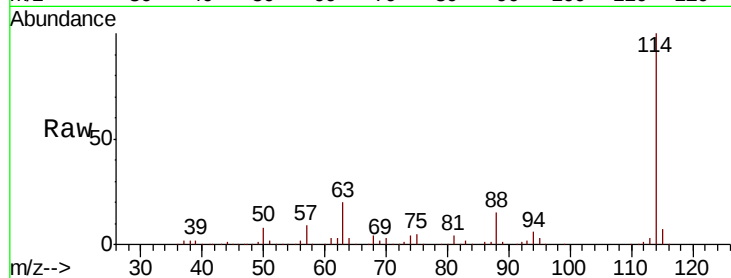




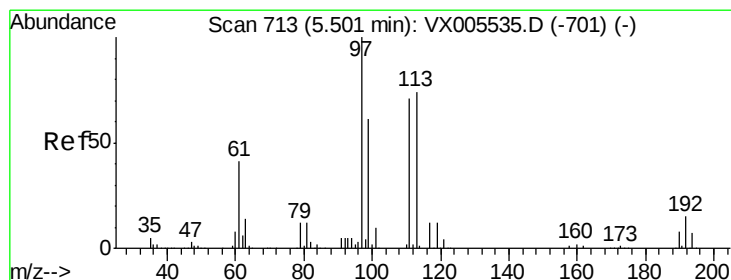
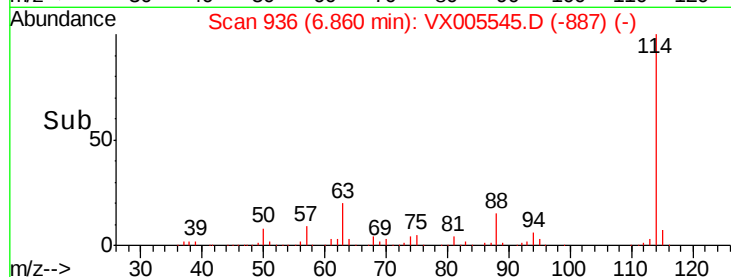
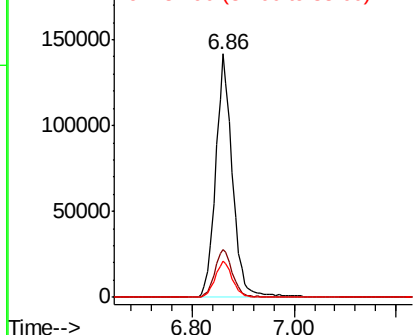
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005545.D
 Acq: 24 Oct 2018 16:59

Instrument :
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 PB114120ZHE#12

Tot Ion:114 Resp: 324812
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 14.8 0.0 30.4

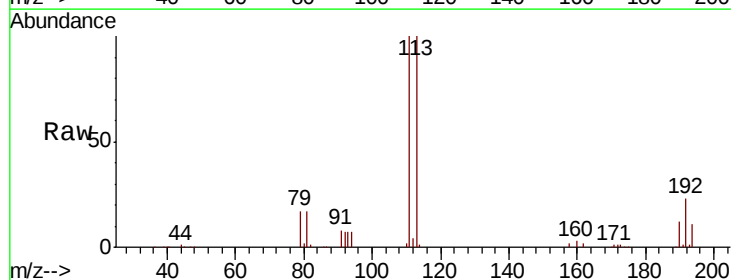


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

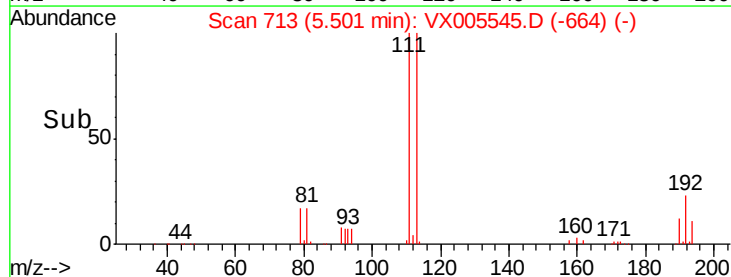
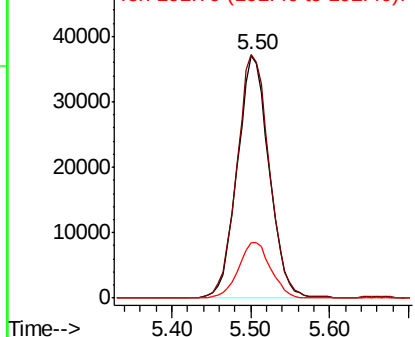


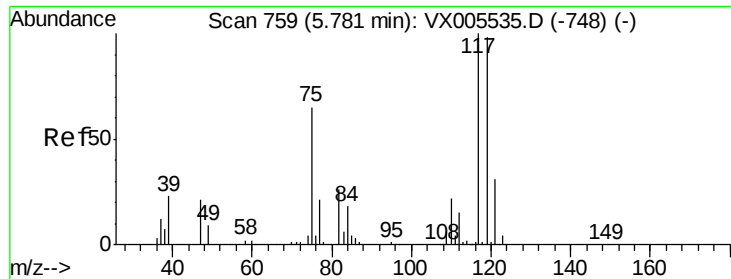
#35
 Dibromofluoromethane
 Concen: 47.133 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005545.D
 Acq: 24 Oct 2018 16:59

Tgt Ion:113 Resp: 103663
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.4 123.6
 192 23.3 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

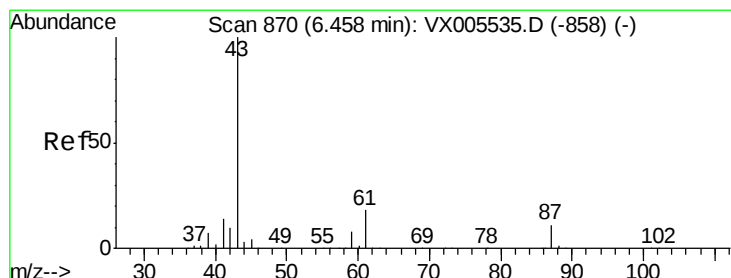
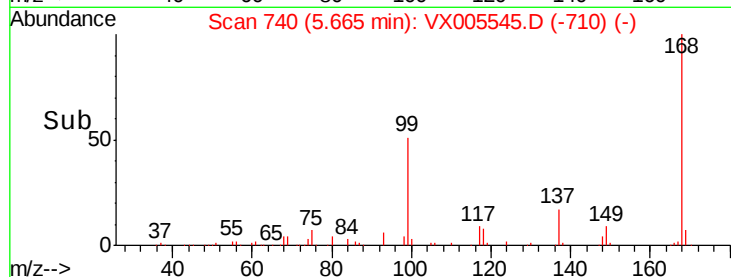
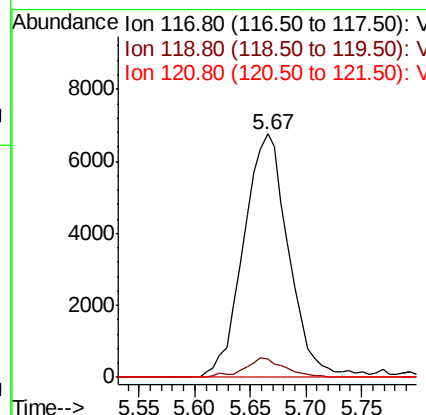
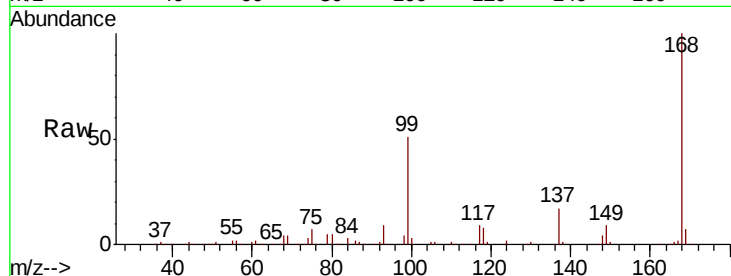




#38
Carbon Tetrachloride
Concen: 5.679 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

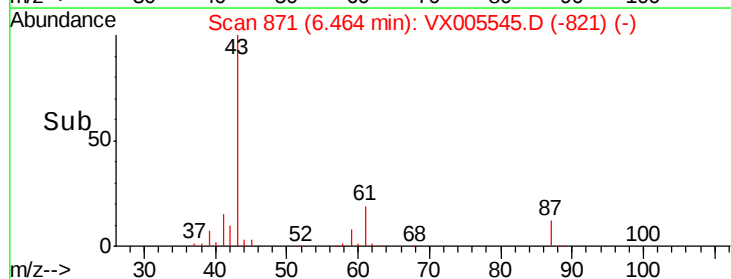
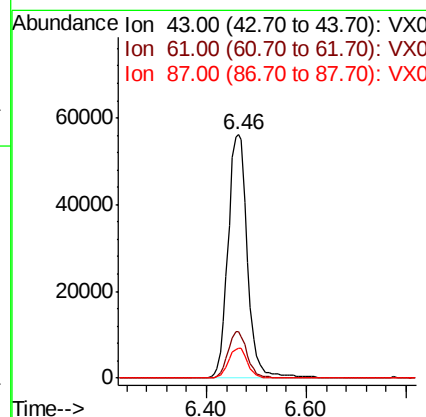
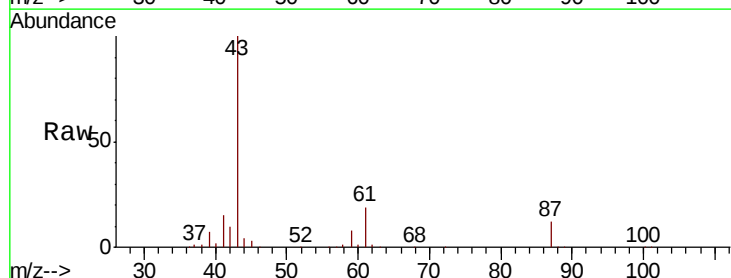
Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#12

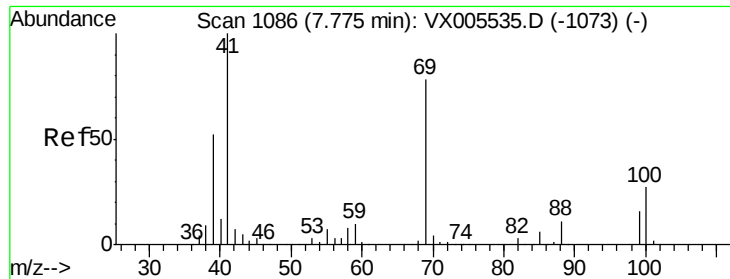
Tot Ion:117 Resp: 18854
Ion Ratio Lower Upper
117 100
119 7.4 78.8 118.2#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 25.176 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.01 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

Tgt Ion: 43 Resp: 151754
Ion Ratio Lower Upper
43 100
61 18.8 17.0 25.4
87 12.1 11.4 17.2

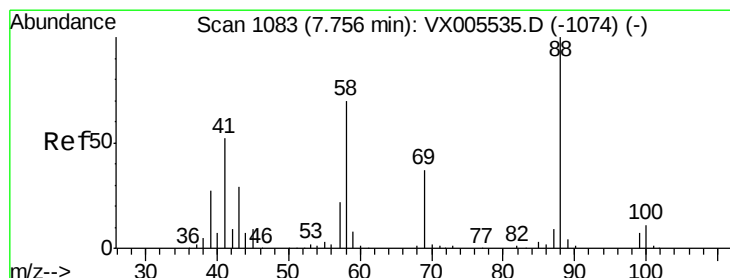
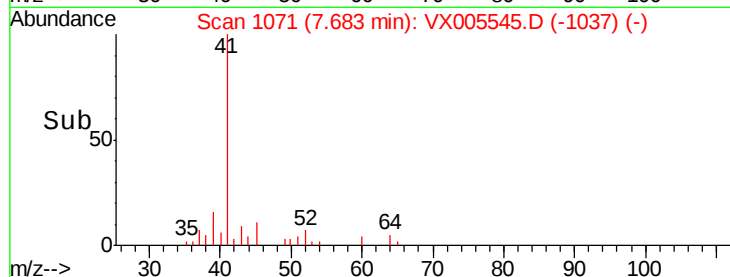
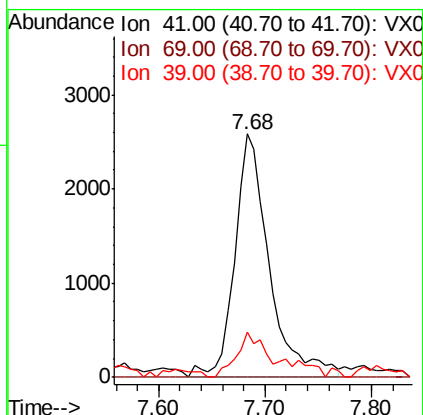
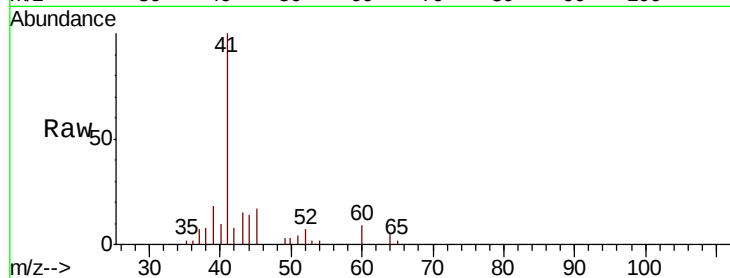




#48
Methyl methacrylate
Concen: 2.003 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

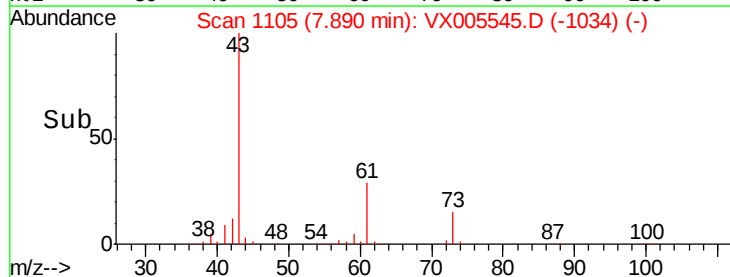
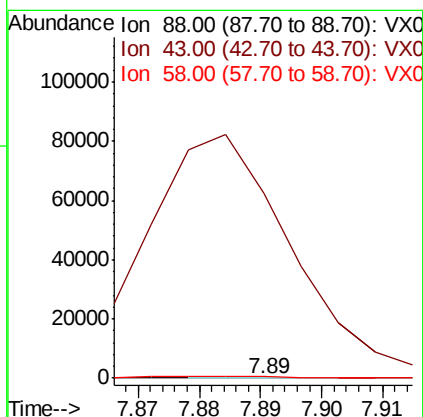
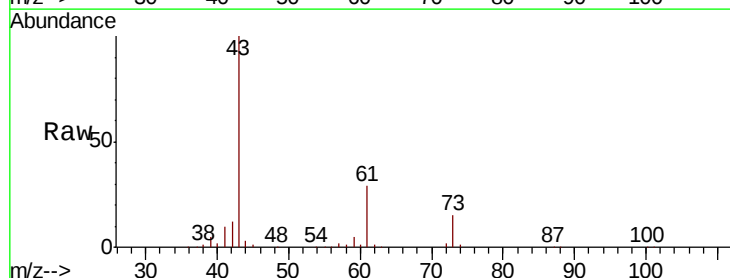
Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#12

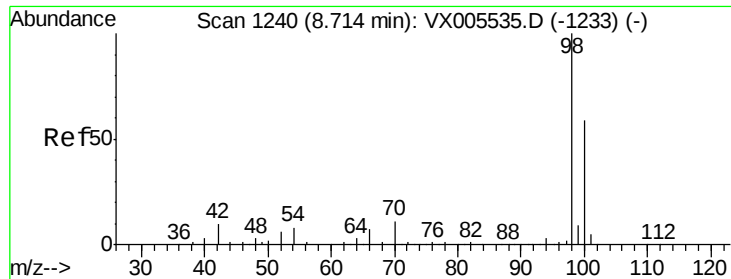
Tot Ion: 41 Resp: 5883
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 15.4 42.7 64.1#



#49
1,4-Dioxane
Concen: 0.343 ug/l
RT: 7.89 min Scan# 1105
Delta R.T. 0.13 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 646577.3 24.7 37.1#
58 5477.3 55.3 82.9#





#50

Toluene-d8

Concen: 49.332 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

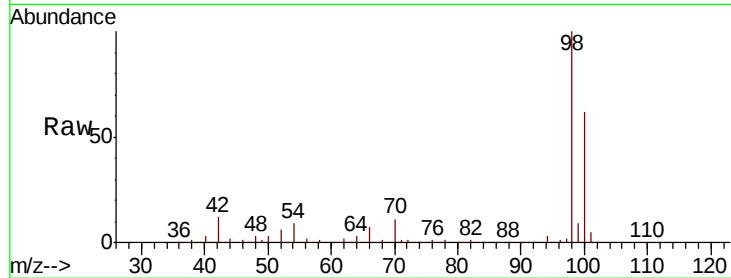
PB114120ZHE#12

Tot Ion: 98 Resp: 389859

Ion Ratio Lower Upper

98 100

100 63.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

250000

200000

150000

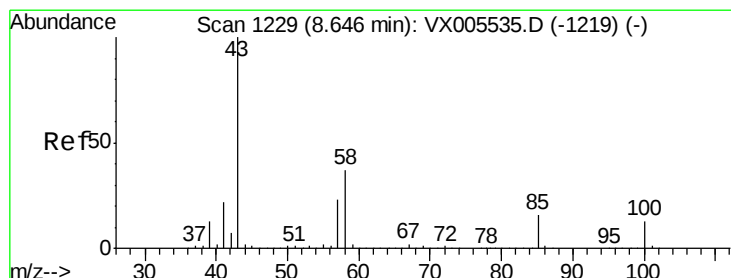
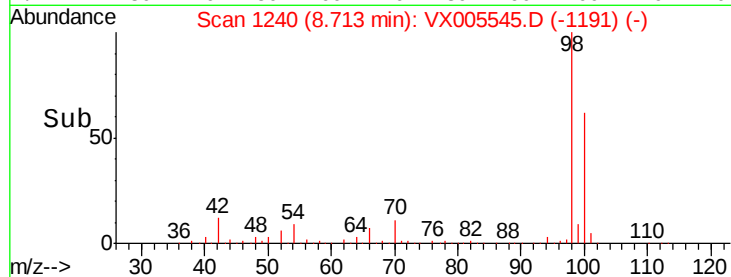
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.519 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005545.D

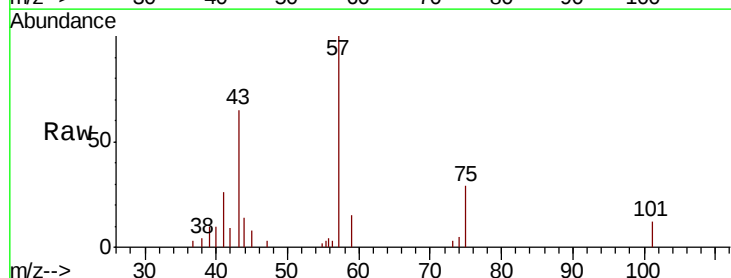
Acq: 24 Oct 2018 16:59

Tgt Ion: 43 Resp: 2104

Ion Ratio Lower Upper

43 100

58 5.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

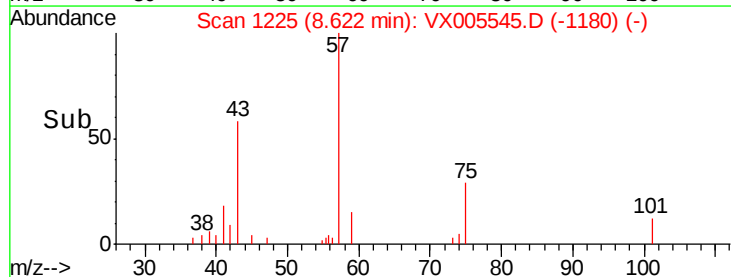
1000

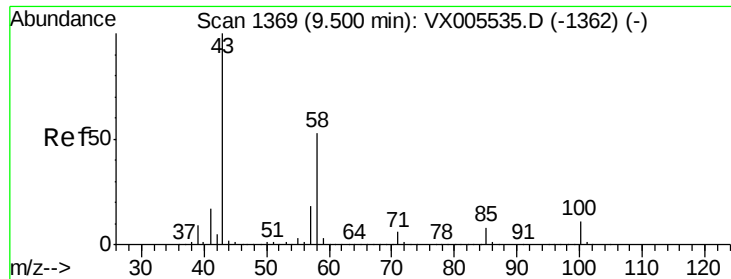
500

0

8.55 8.60 8.65

Time-->

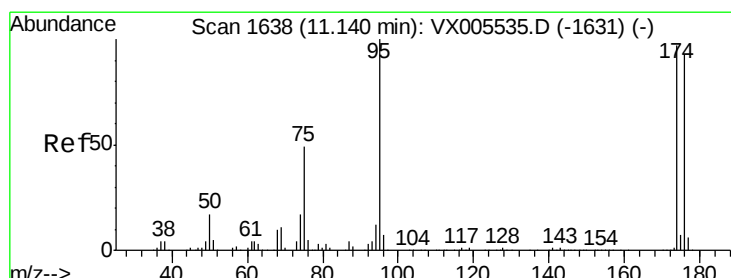
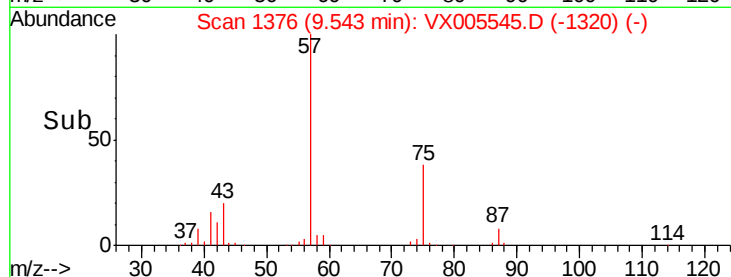
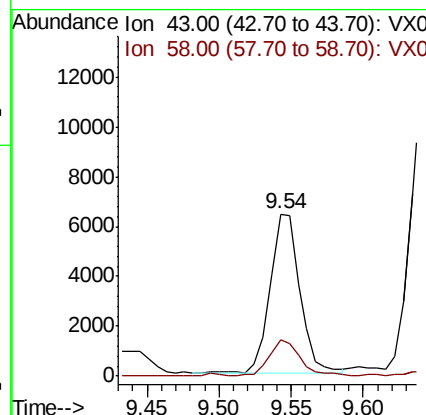
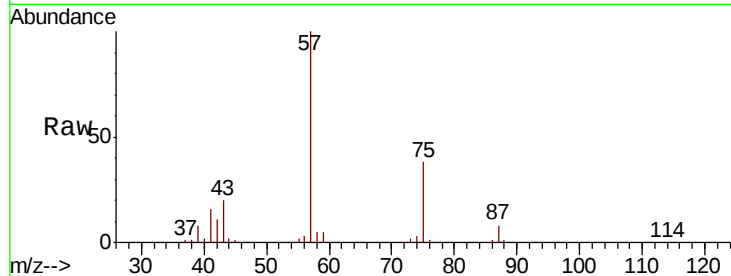




#59
2-Hexanone
Concen: 2.900 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

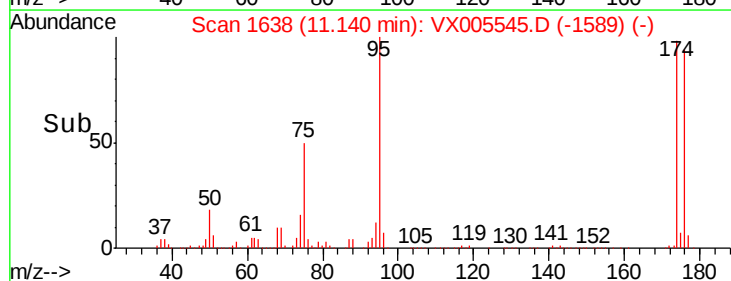
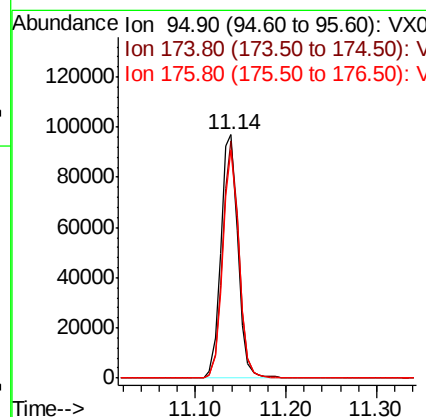
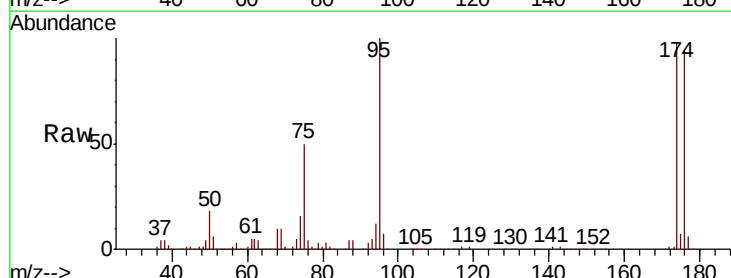
Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#12

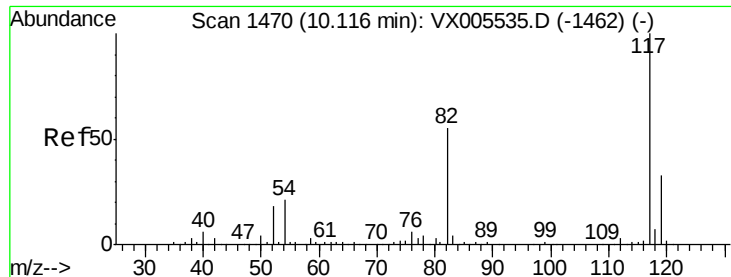
Tot Ion: 43 Resp: 9264
Ion Ratio Lower Upper
43 100
58 23.6 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 42.989 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

Tgt Ion: 95 Resp: 128297
Ion Ratio Lower Upper
95 100
174 92.7 0.0 185.2
176 89.2 0.0 178.6

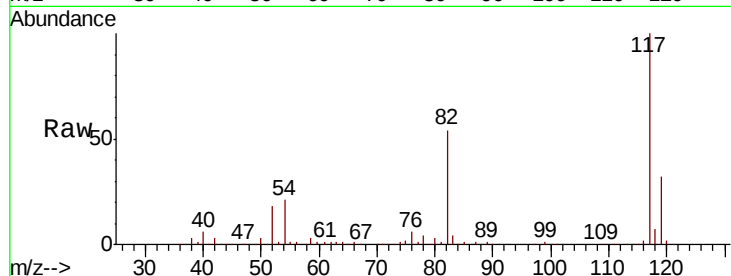




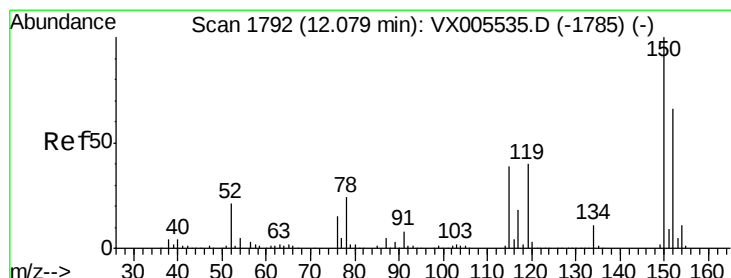
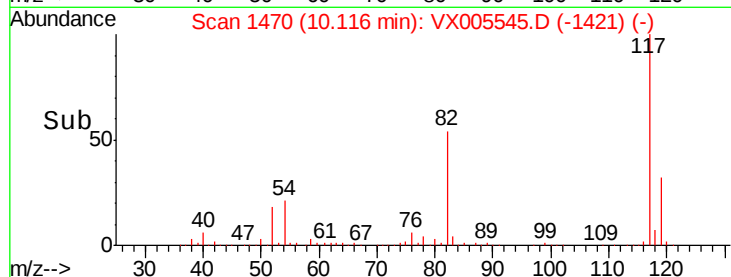
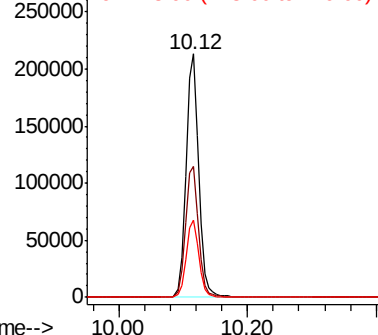
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#12

Tot Ion:117 Resp: 294830
Ion Ratio Lower Upper
117 100
82 53.9 47.8 71.6
119 31.9 29.3 43.9

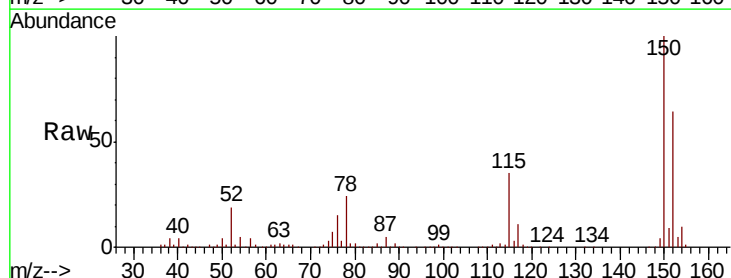


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

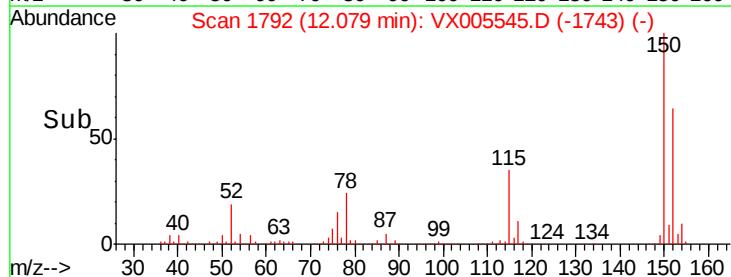
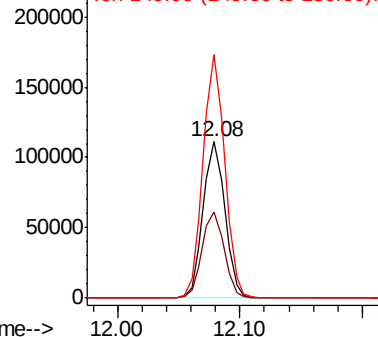


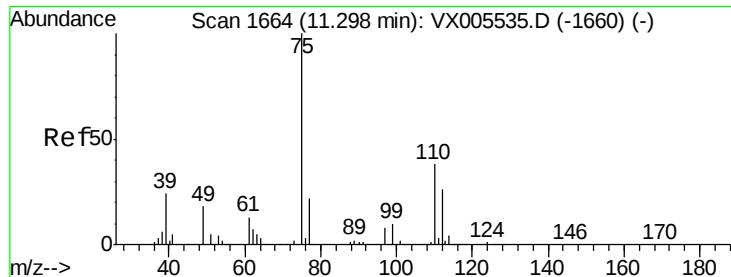
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005545.D
Acq: 24 Oct 2018 16:59

Tgt Ion:152 Resp: 136685
Ion Ratio Lower Upper
152 100
115 56.0 39.0 117.0
150 154.7 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: 23.474 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

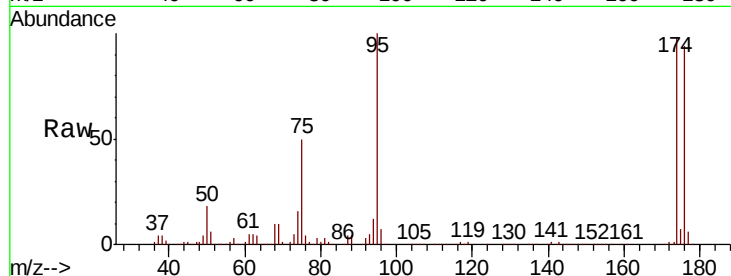
PB114120ZHE#12

Tot Ion: 75 Resp: 65353

Ion Ratio Lower Upper

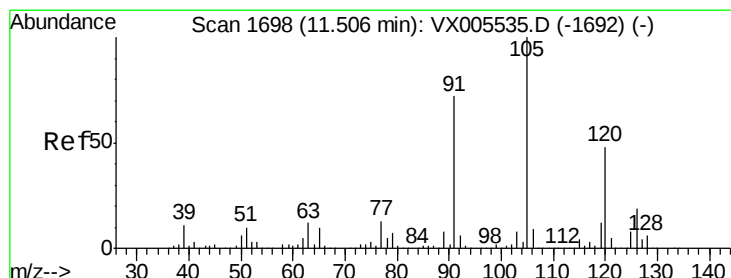
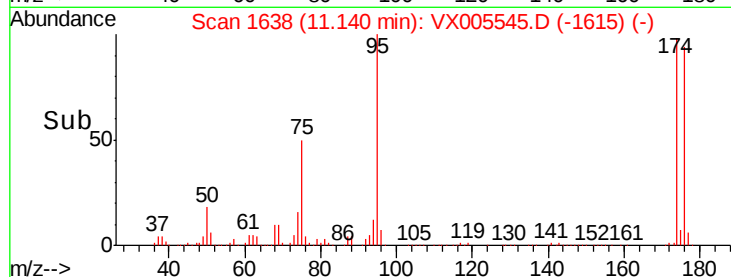
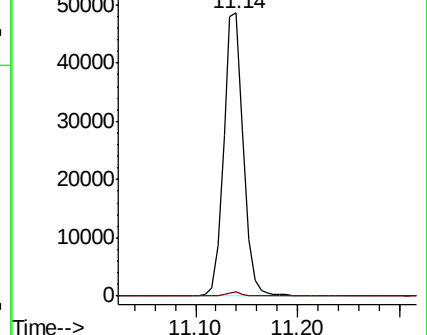
75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX005535.D (-1660) (-)

Ion 77.00 (76.70 to 77.70): VX005535.D (-1660) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.219 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX005545.D

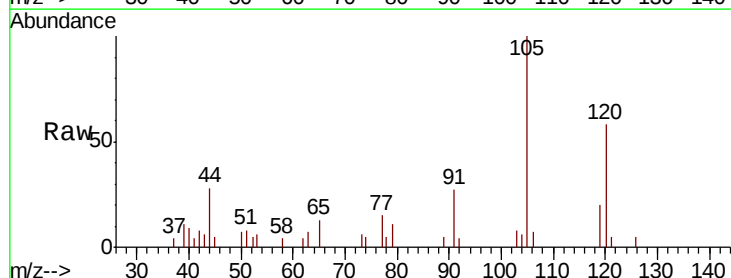
Acq: 24 Oct 2018 16:59

Tgt Ion: 105 Resp: 1567

Ion Ratio Lower Upper

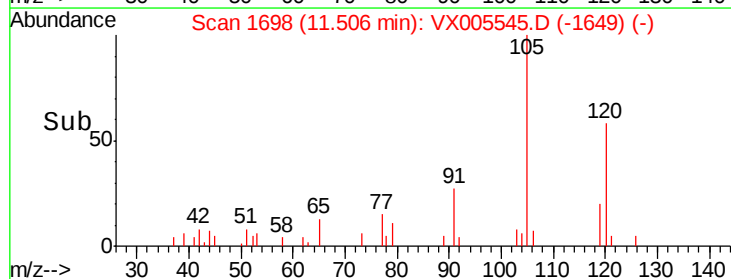
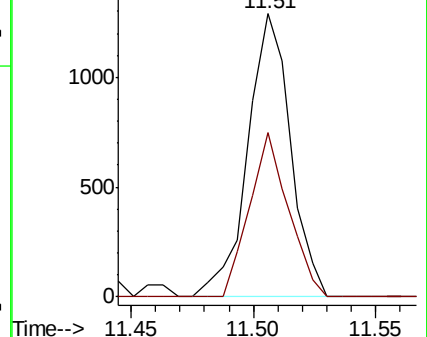
105 100

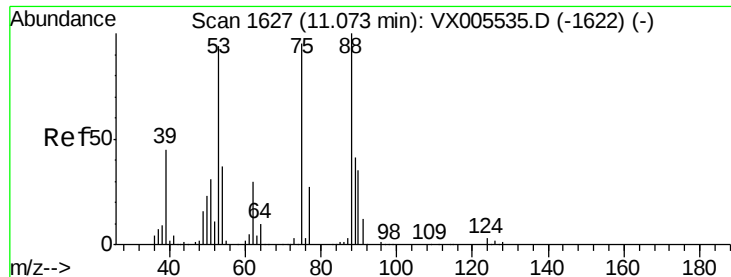
120 52.9 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VX005535.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX005535.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 73.736 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005545.D

Acq: 24 Oct 2018 16:59

Instrument :

MSVOA_X

ClientSampleId :

PB114120ZHE#12

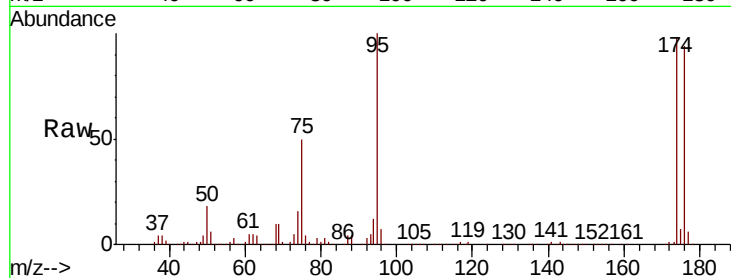
Tot Ion: 75 Resp: 65353

Ion Ratio Lower Upper

75 100

53 0.4 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

