

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102318\
 Data File : VX005519.D
 Acq On : 23 Oct 2018 14:27
 Operator : JC/MD
 Sample : PB114080ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 24 01:13:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	222833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	307377	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	276528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	127027	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	145483	58.83	ug/l	0.00
Spiked Amount			Recovery	=	117.66%	
35) Dibromofluoromethane	5.51	113	114629	56.31	ug/l	0.00
Spiked Amount			Recovery	=	112.62%	
50) Toluene-d8	8.72	98	370391	53.00	ug/l	0.00
Spiked Amount			Recovery	=	106.00%	
62) 4-Bromofluorobenzene	11.14	95	119414	45.48	ug/l	0.00
Spiked Amount			Recovery	=	90.96%	

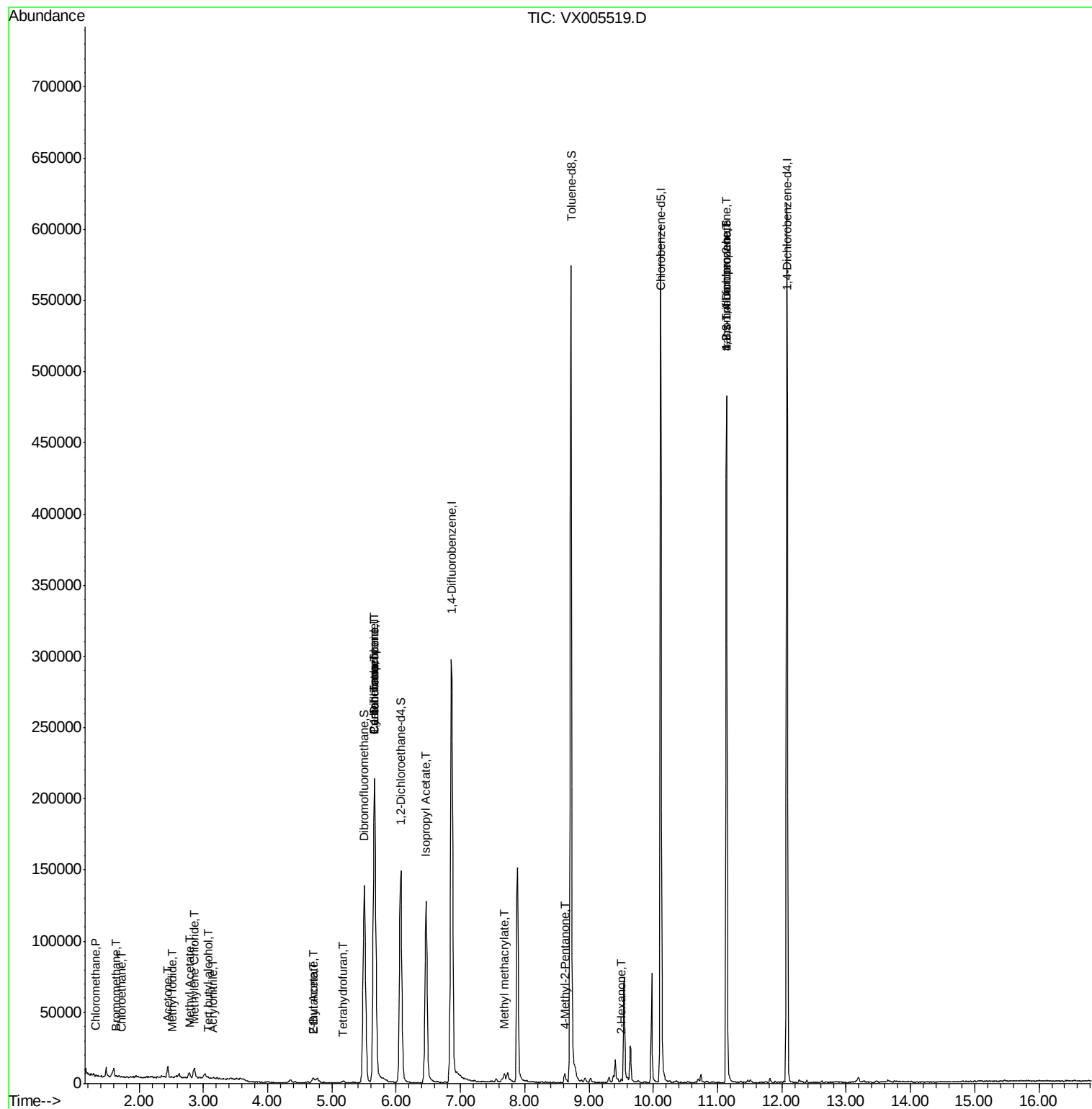
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	598	0.237	ug/l #	62
5) Bromomethane	1.65	94	604	0.998	ug/l	90
6) Chloroethane	1.73	64	200	0.454	ug/l #	44
10) Methyl Iodide	2.52	142	382	2.657	ug/l #	93
11) Tert butyl alcohol	3.07	59	1265	1.813	ug/l	97
13) Acrolein	2.28	56	54	Below Cal	#	16
15) Acrylonitrile	3.16	53	332	0.210	ug/l #	70
16) Acetone	2.45	43	7605	5.318	ug/l	93
18) Methyl Acetate	2.78	43	4777	1.174	ug/l	97
20) Methylene Chloride	2.86	84	3275	0.270	ug/l	90
25) 2-Butanone	4.71	43	5666	2.708	ug/l	93
29) Tetrahydrofuran	5.18	42	1207	0.904	ug/l #	80
31) Cyclohexane	5.65	56	4276	1.258	ug/l #	15
36) 1,1-Dichloropropene	5.66	75	15965	5.363	ug/l #	45
37) Ethyl Acetate	4.71	43	5666	1.480	ug/l #	68
38) Carbon Tetrachloride	5.67	117	19334	6.464	ug/l #	15
43) Isopropyl Acetate	6.46	43	161467	31.662	ug/l	95
44) Trichloroethene	7.23	130	137	Below Cal		70
48) Methyl methacrylate	7.68	41	6011	2.273	ug/l #	22
51) 4-Methyl-2-Pentanone	8.62	43	2635	0.746	ug/l #	34
59) 2-Hexanone	9.50	43	1530	0.539	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	60777	24.666	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	60777	74.948	ug/l #	10

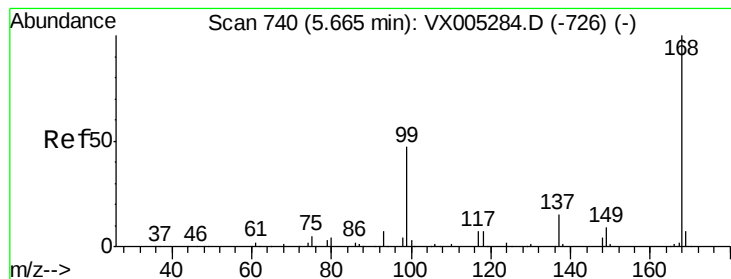
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

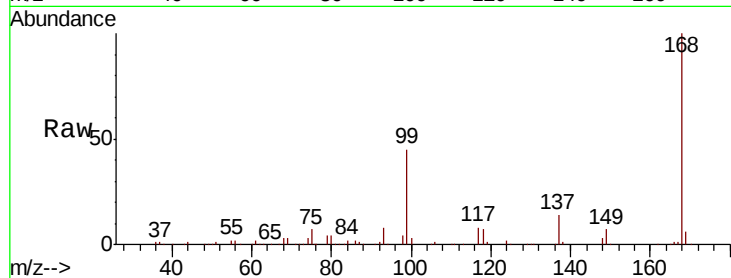
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 222833

Ion Ratio Lower Upper

168 100

99 44.5 39.9 59.9

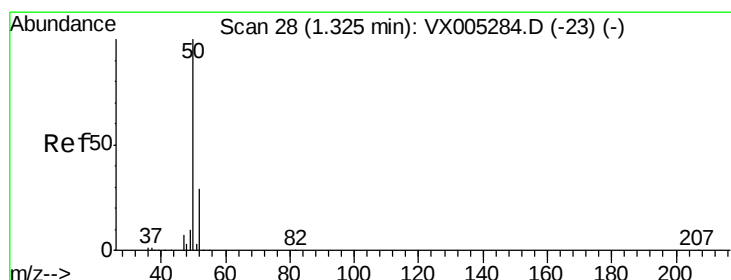
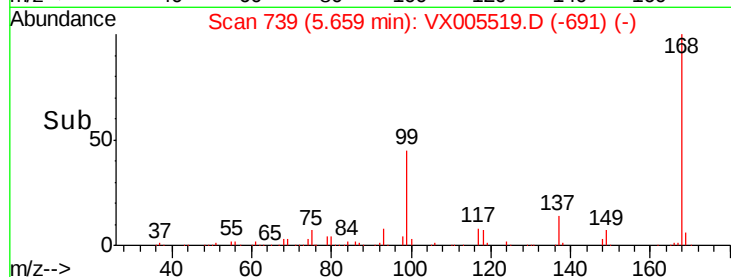


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

Time-->



#3

Chloromethane

Concen: 0.237 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005519.D

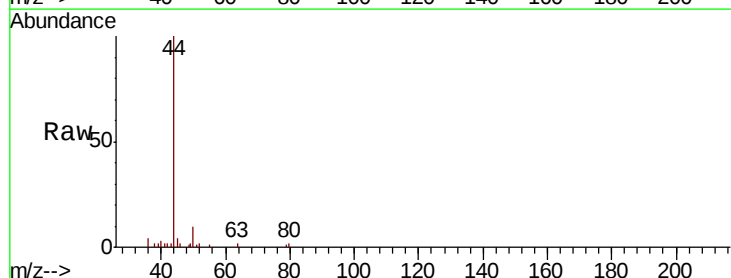
Acq: 23 Oct 2018 14:27

Tgt Ion: 50 Resp: 598

Ion Ratio Lower Upper

50 100

52 11.2 26.2 39.2#

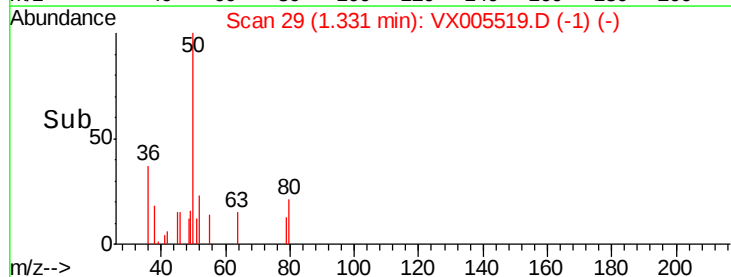


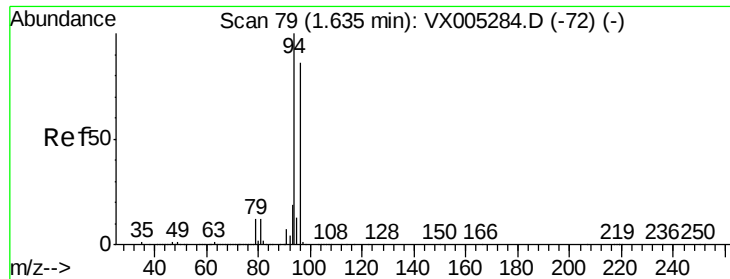
Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

Time-->





#5

Bromomethane

Concen: 0.998 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

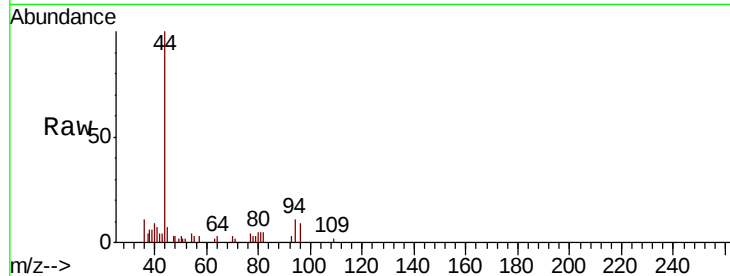
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 604

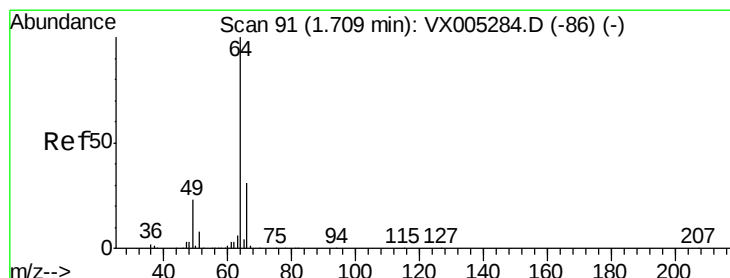
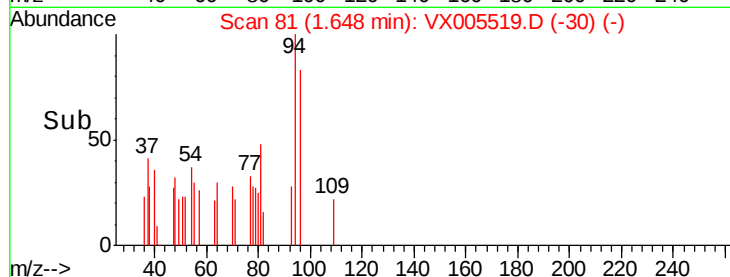
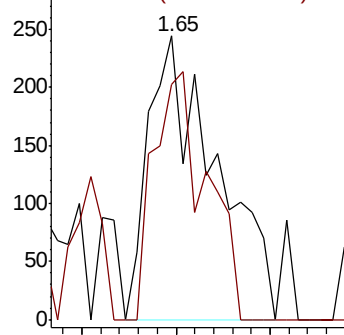
Ion Ratio Lower Upper

94 100

96 83.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.454 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005519.D

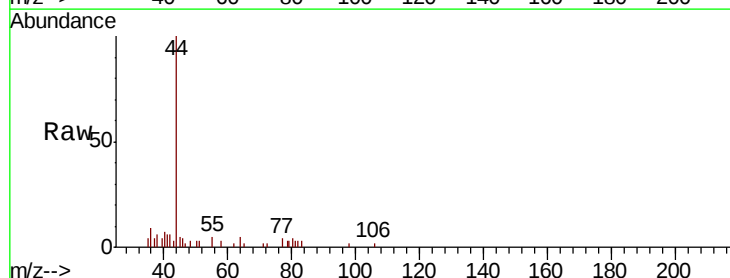
Acq: 23 Oct 2018 14:27

Tgt Ion: 64 Resp: 200

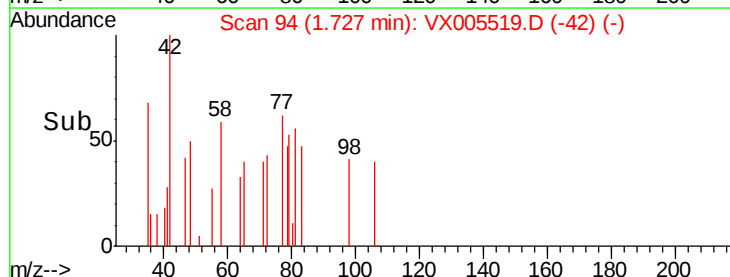
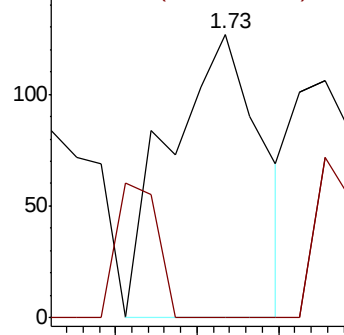
Ion Ratio Lower Upper

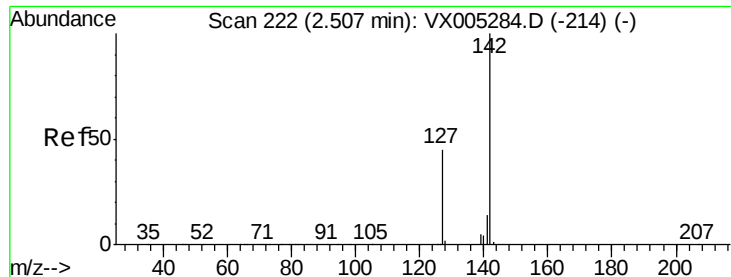
64 100

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

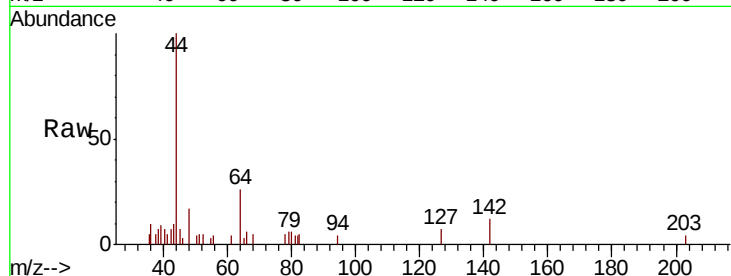




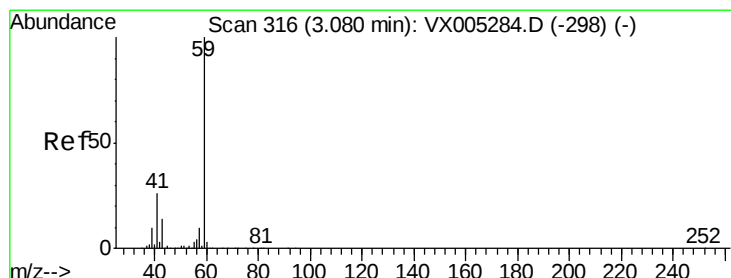
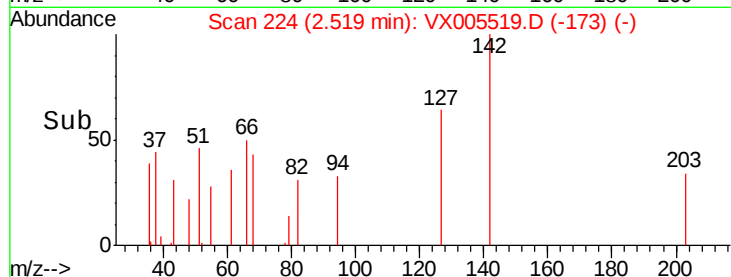
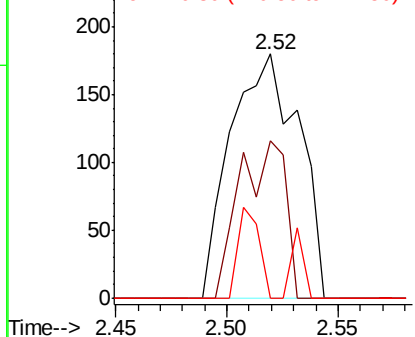
#10
Methvl Iodide
Concen: 2.657 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 382
Ion Ratio Lower Upper
142 100
127 43.5 33.8 50.6
141 5.0 11.4 17.0#

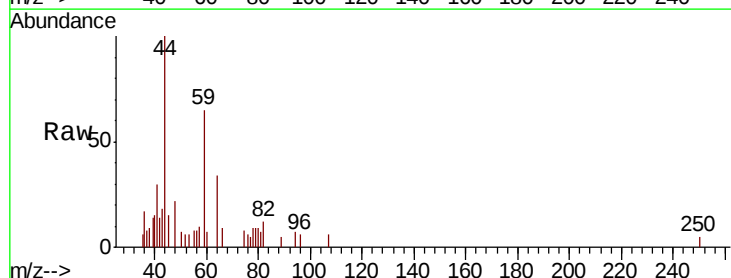


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

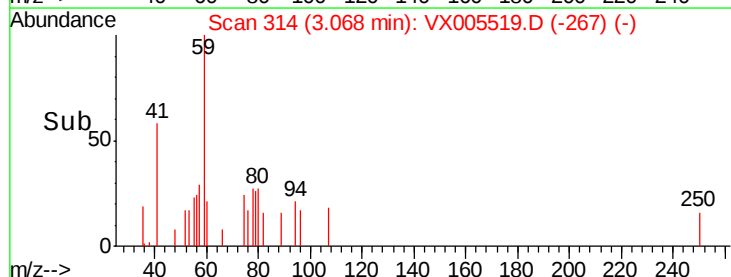
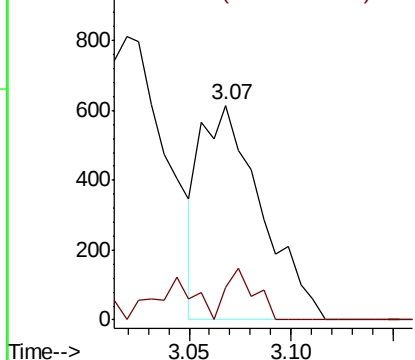


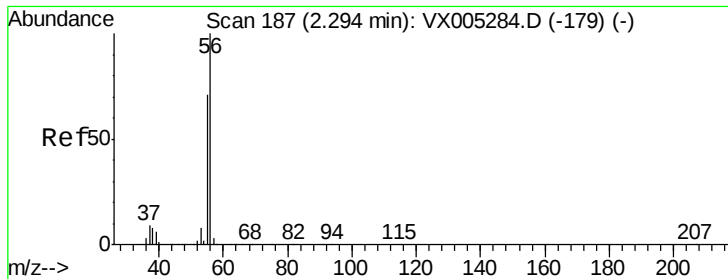
#11
Tert butyl alcohol
Concen: 1.813 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Tgt Ion: 59 Resp: 1265
Ion Ratio Lower Upper
59 100
57 11.4 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: Below Cal

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

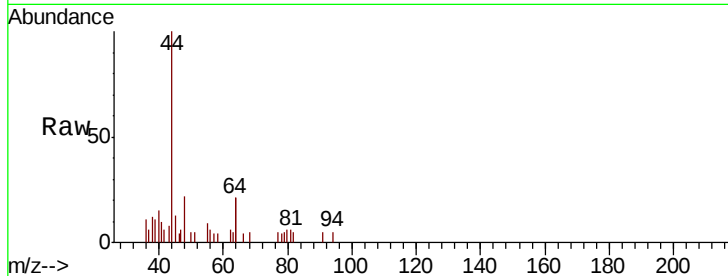
ClientSampleId :

Tot Ion: 56 Resp: 54

Ion Ratio Lower Upper

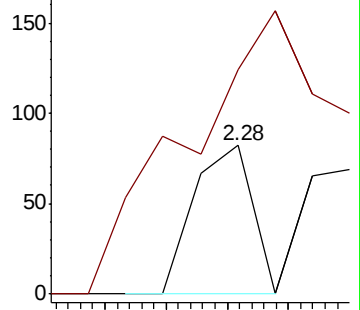
56 100

55 0.0 54.7 82.1#

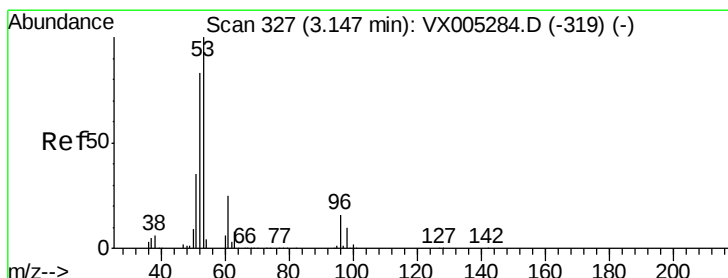
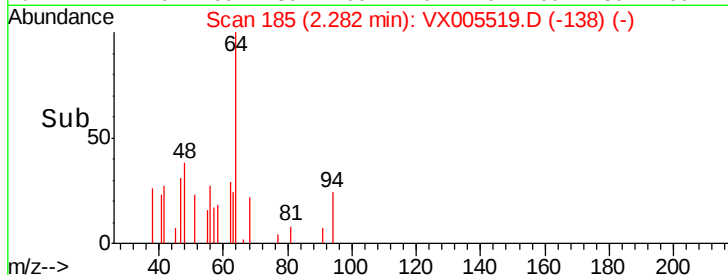


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.210 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

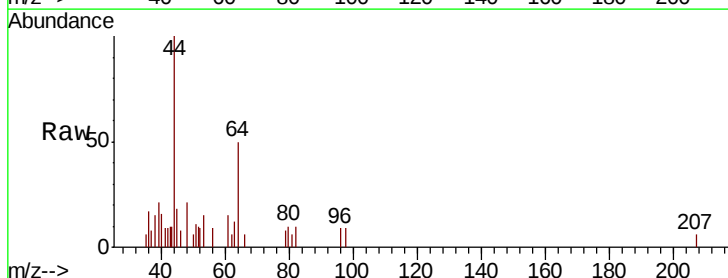
Tgt Ion: 53 Resp: 332

Ion Ratio Lower Upper

53 100

52 96.1 65.2 97.8

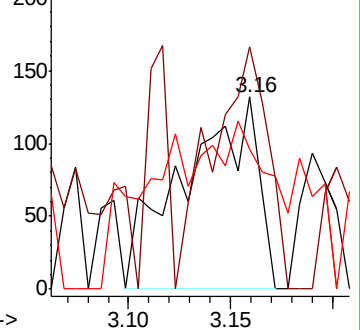
51 0.0 28.2 42.2#



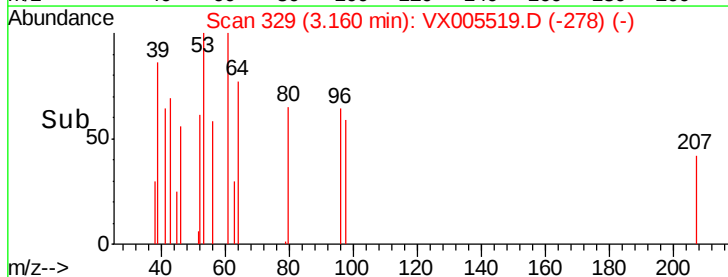
Abundance Ion 53.00 (52.70 to 53.70): VX0

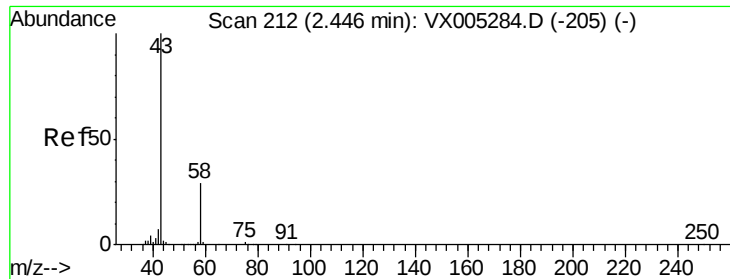
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->

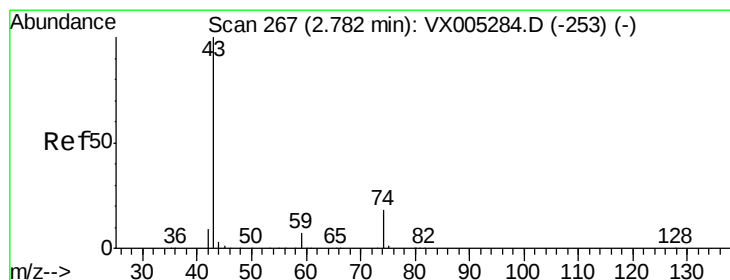
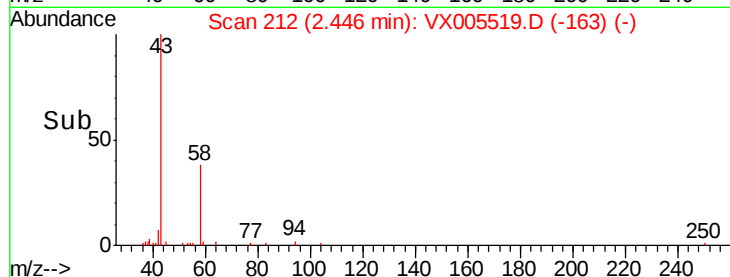
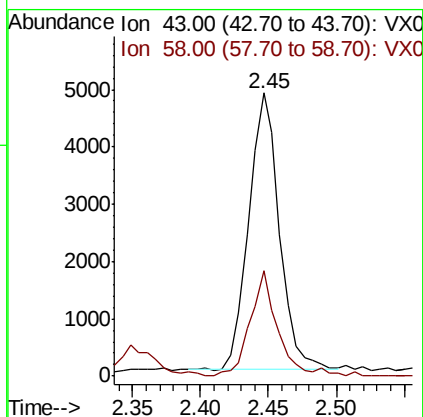
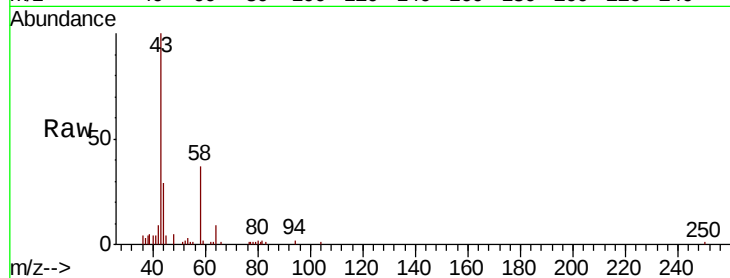




#16
Acetone
Concen: 5.318 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

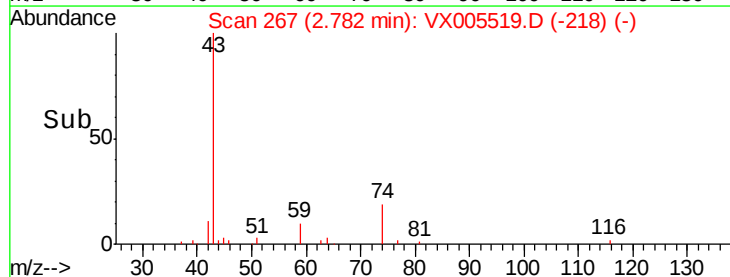
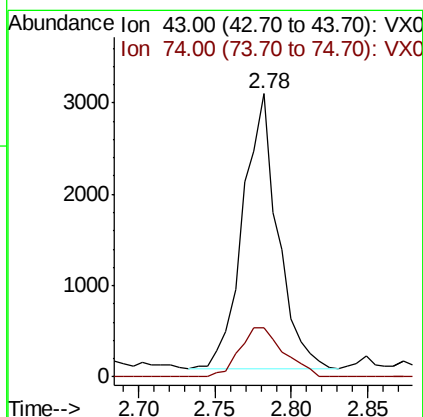
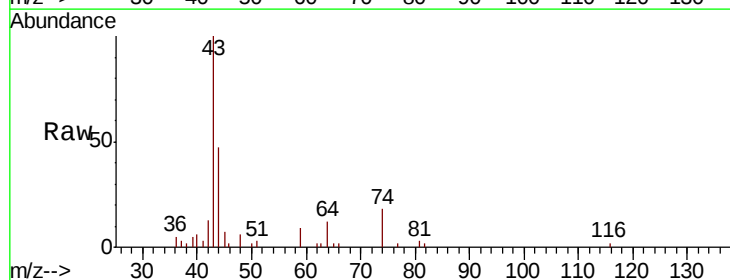
Instrument :
MSVOA_X
ClientSampled :

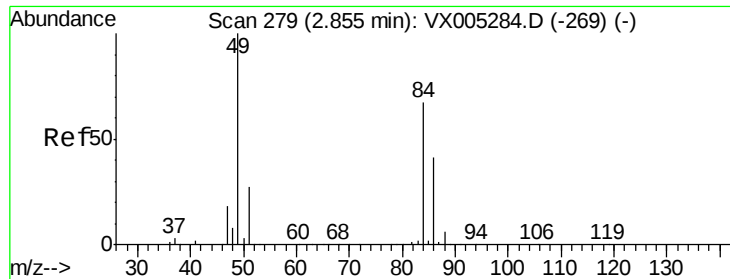
Tot Ion: 43 Resp: 7605
Ion Ratio Lower Upper
43 100
58 36.7 26.2 39.4



#18
Methyl Acetate
Concen: 1.174 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Tgt Ion: 43 Resp: 4777
Ion Ratio Lower Upper
43 100
74 22.8 19.4 29.2

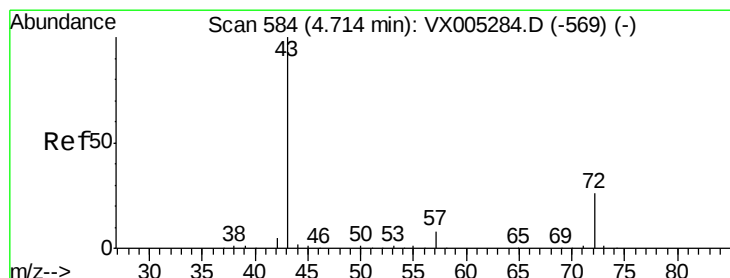
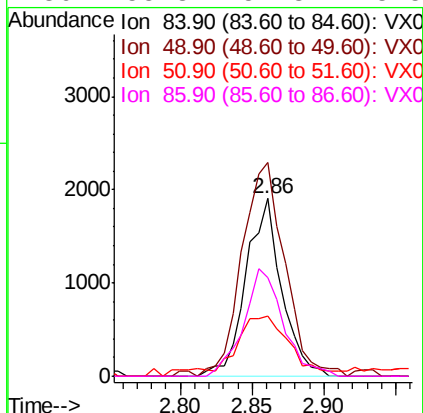
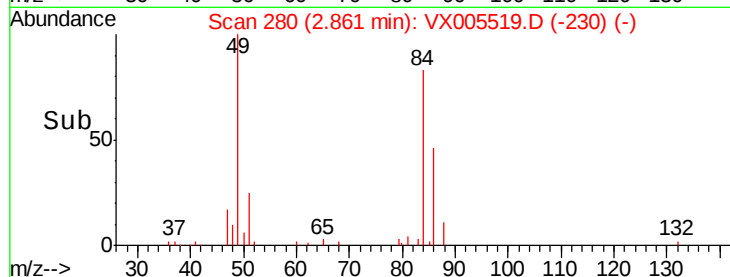
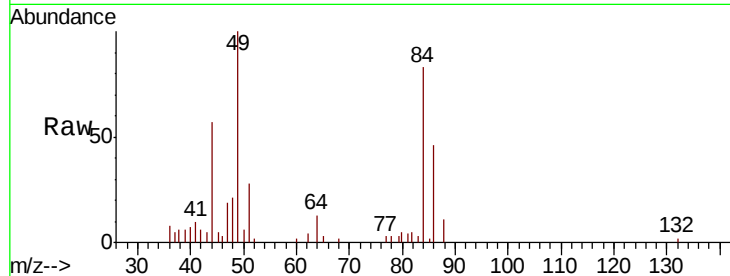




#20
Methylene Chloride
Concen: 0.270 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

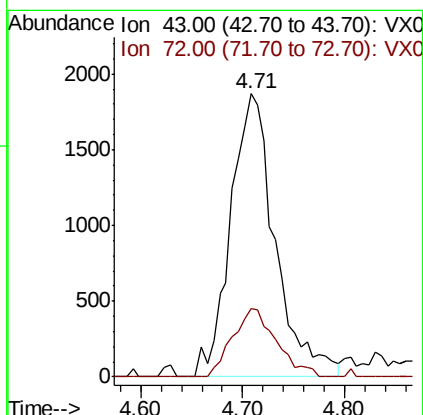
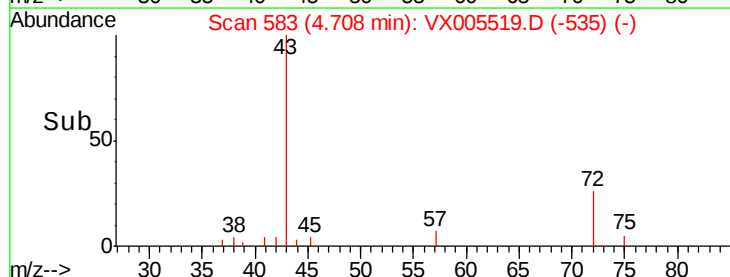
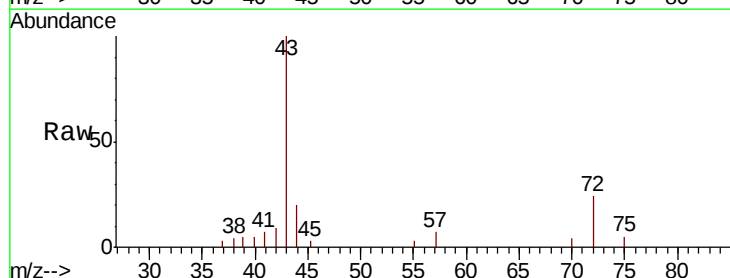
Instrument :
MSVOA_X
ClientSampleId :

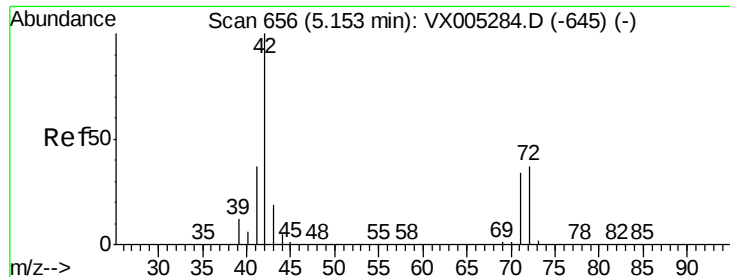
Tot Ion: 84 Resp: 3275
Ion Ratio Lower Upper
84 100
49 117.4 101.2 151.8
51 30.7 29.5 44.3
86 55.3 52.3 78.5



#25
2-Butanone
Concen: 2.708 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Tgt Ion: 43 Resp: 5666
Ion Ratio Lower Upper
43 100
72 24.1 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.904 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

ClientSampled :

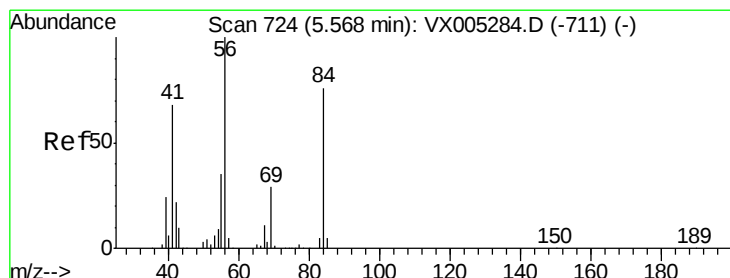
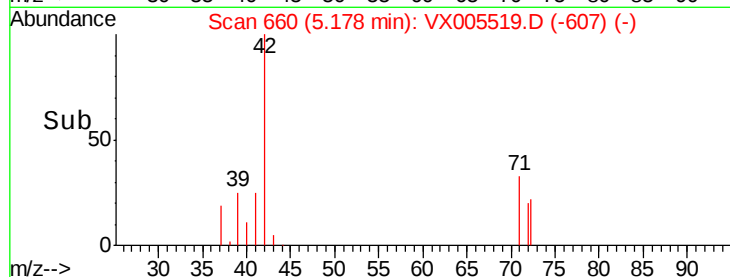
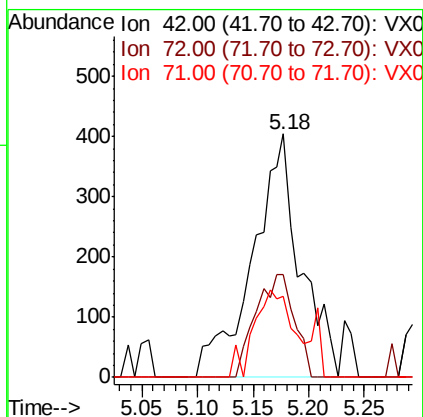
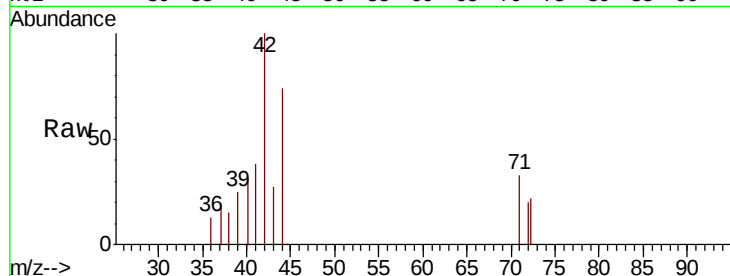
Tot Ion: 42 Resp: 1207

Ion Ratio Lower Upper

42 100

72 34.0 37.4 56.0#

71 29.2 34.5 51.7#



#31

Cyclohexane

Concen: 1.258 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.09 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

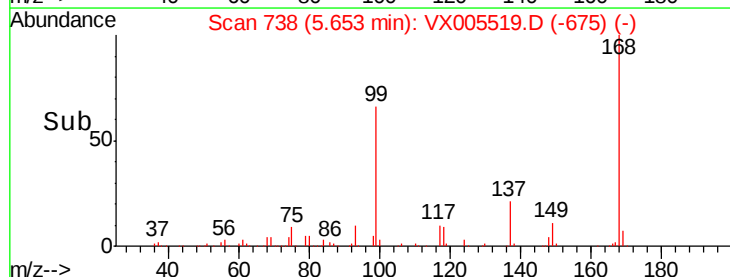
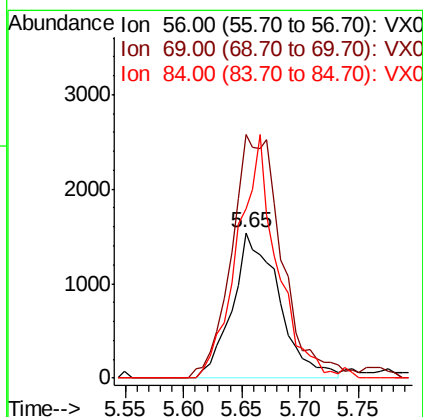
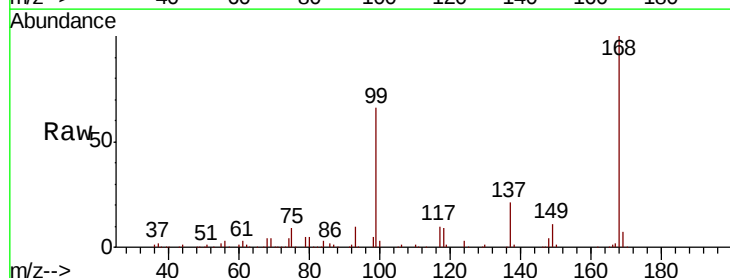
Tgt Ion: 56 Resp: 4276

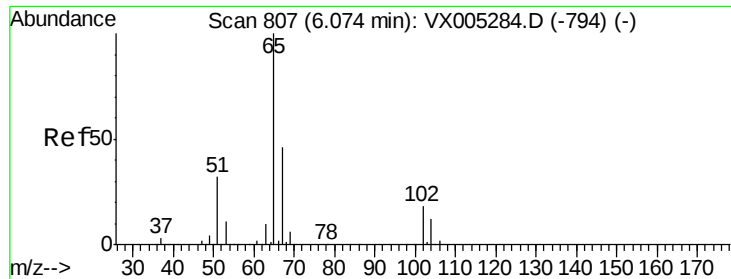
Ion Ratio Lower Upper

56 100

69 167.0 25.4 38.2#

84 116.2 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 58.826 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

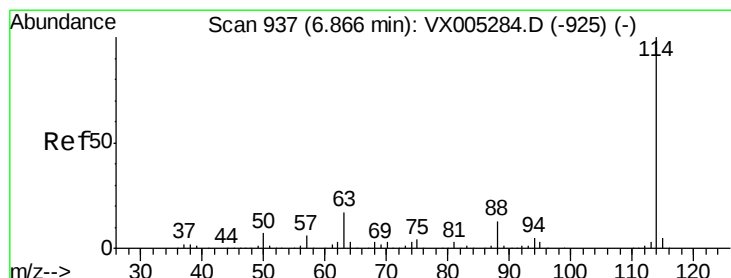
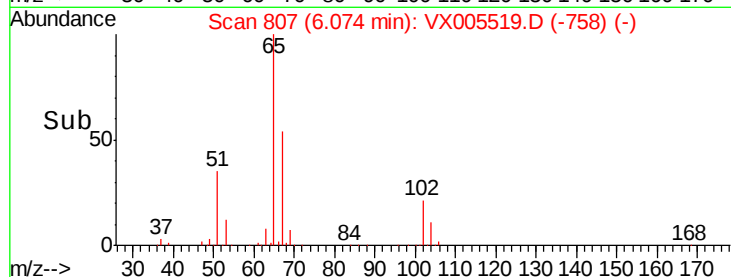
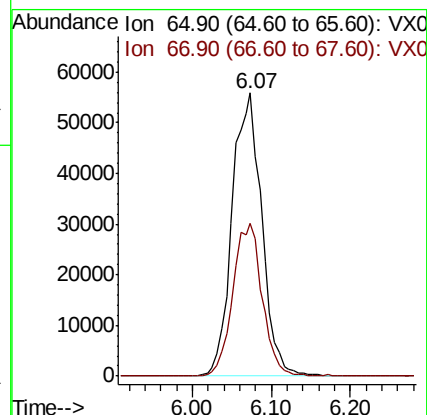
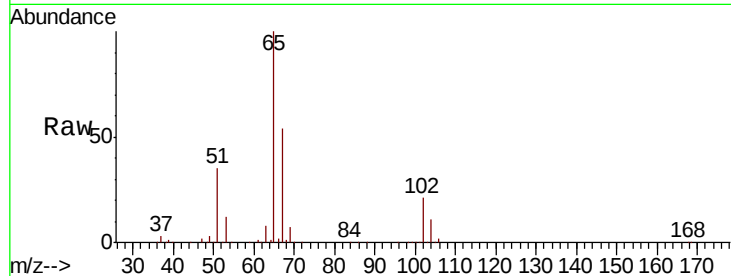
ClientSampleId :

Tot Ion: 65 Resp: 145483

Ion Ratio Lower Upper

65 100

67 53.5 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

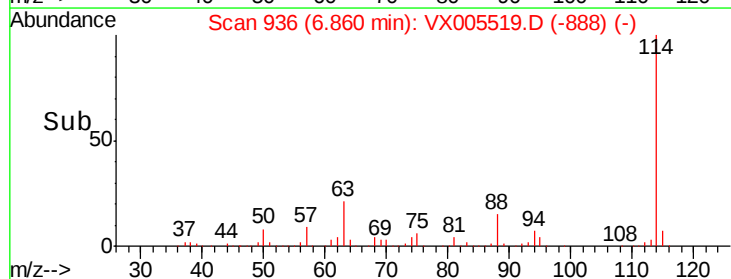
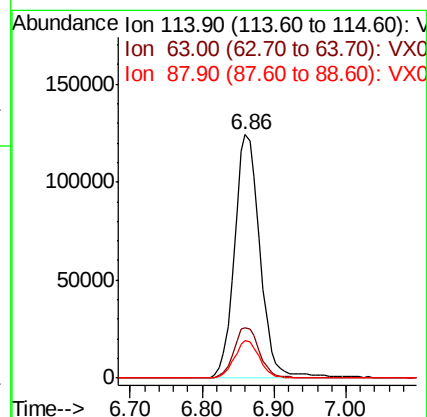
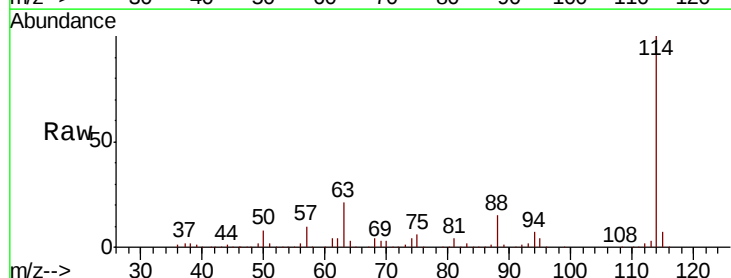
Tgt Ion: 114 Resp: 307377

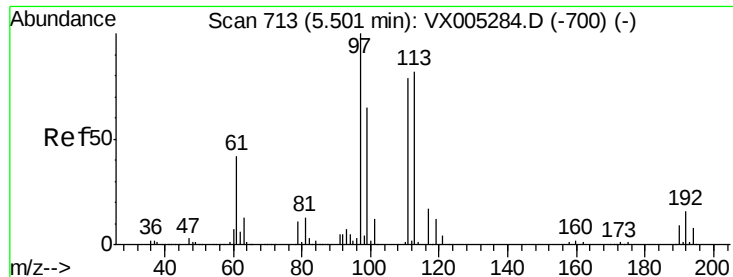
Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.0

88 15.3 0.0 30.4





#35

Dibromofluoromethane

Concen: 56.306 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

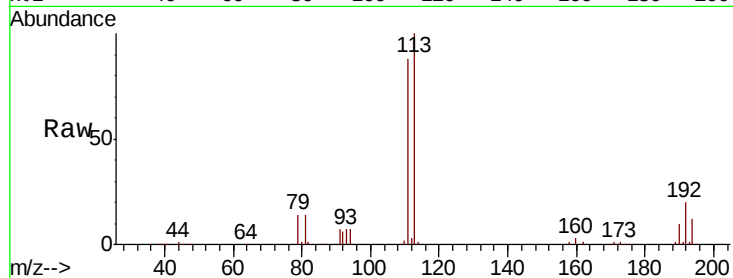
Tot Ion:113 Resp: 114629

Ion Ratio Lower Upper

113 100

111 101.6 82.4 123.6

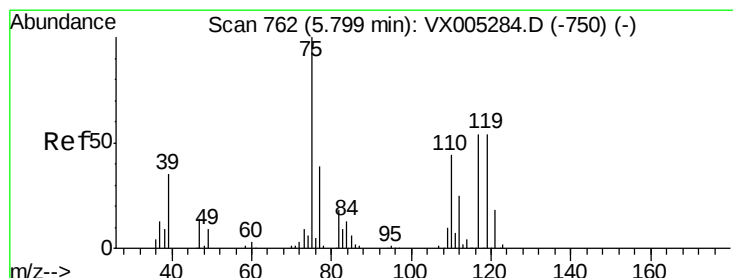
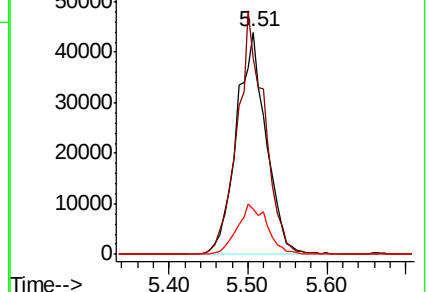
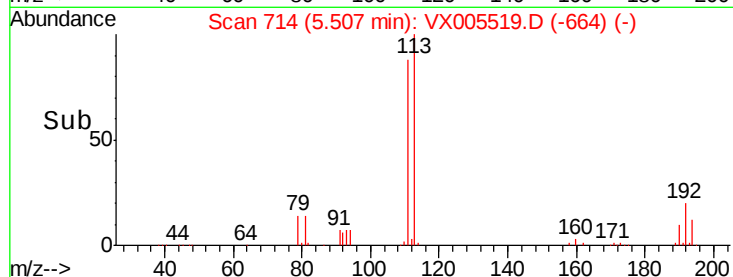
192 23.1 19.4 29.2



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



#36

1,1-Dichloropropene

Concen: 5.363 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

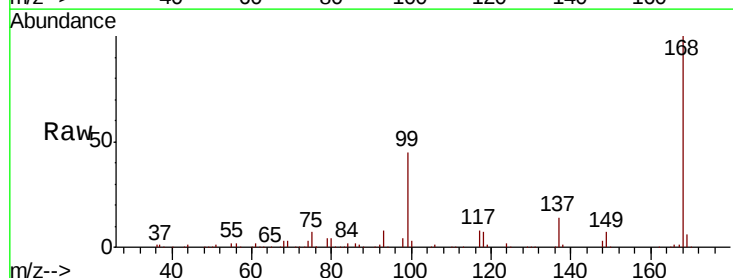
Tgt Ion: 75 Resp: 15965

Ion Ratio Lower Upper

75 100

110 4.5 18.0 54.0#

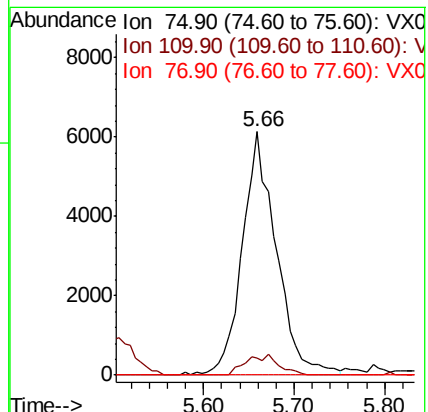
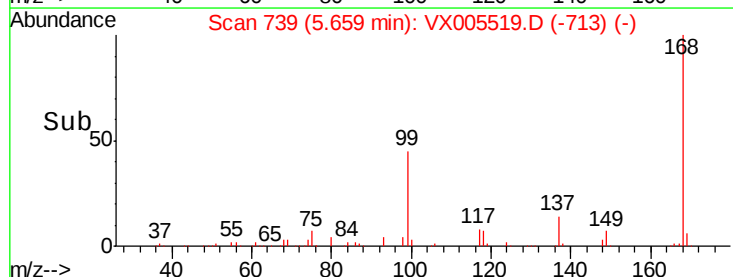
77 0.0 24.6 36.8#

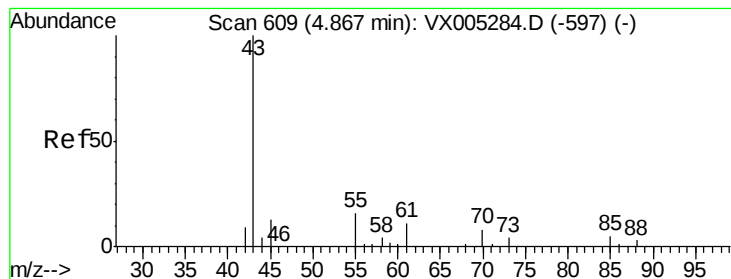


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 1.480 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

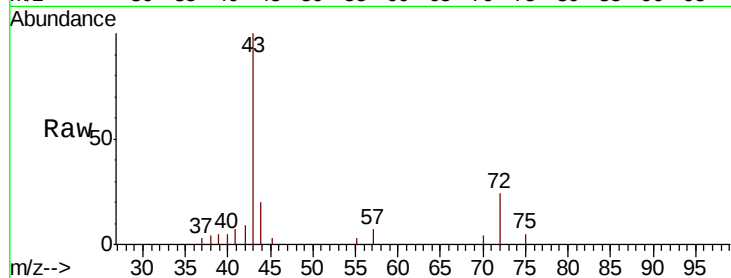
Tot Ion: 43 Resp: 5666

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.8 9.0 13.6#

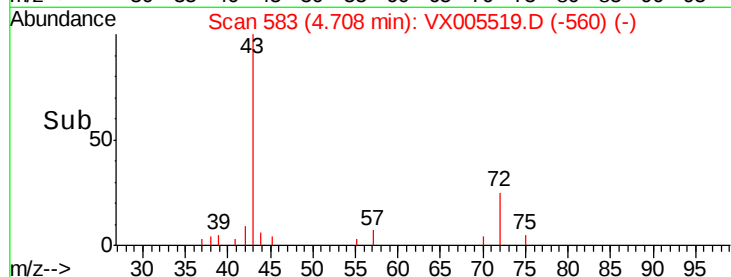


Abundance Ion 43.00 (42.70 to 43.70): VX005519.D (-560) (-)

Ion 60.90 (60.60 to 61.60): VX005519.D (-560) (-)

Ion 70.00 (69.70 to 70.70): VX005519.D (-560) (-)

Time-->



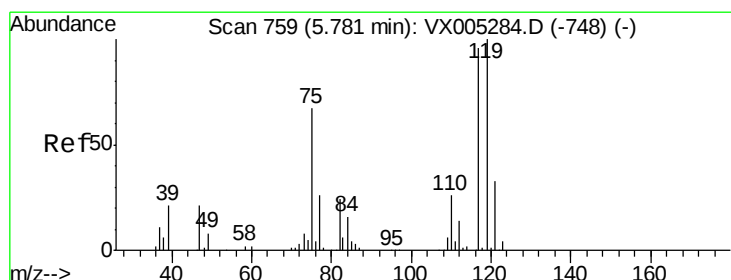
Abundance

Ion 43.00 (42.70 to 43.70): VX005519.D (-560) (-)

Ion 60.90 (60.60 to 61.60): VX005519.D (-560) (-)

Ion 70.00 (69.70 to 70.70): VX005519.D (-560) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.464 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

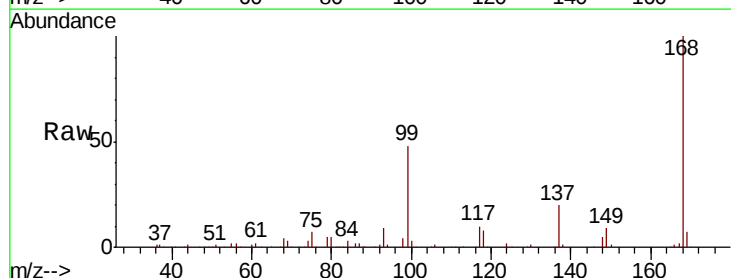
Tgt Ion: 117 Resp: 19334

Ion Ratio Lower Upper

117 100

119 5.0 78.8 118.2#

121 0.0 24.9 37.3#

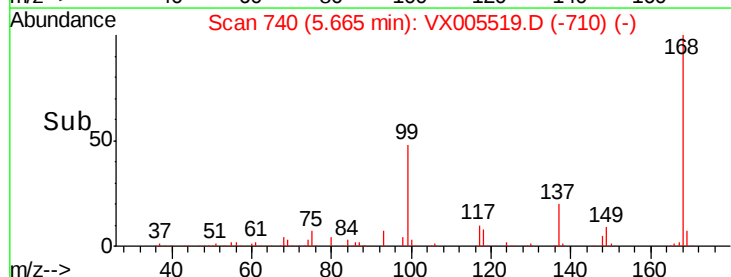


Abundance Ion 116.80 (116.50 to 117.50): VX005519.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX005519.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX005519.D (-710) (-)

Time-->



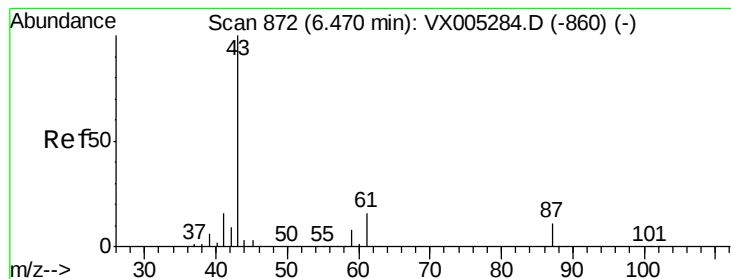
Abundance

Ion 116.80 (116.50 to 117.50): VX005519.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX005519.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX005519.D (-710) (-)

Time-->



#43

Isopropyl Acetate

Concen: 31.662 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

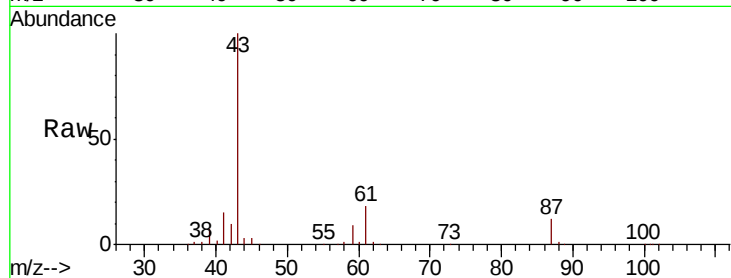
Tot Ion: 43 Resp: 161467

Ion Ratio Lower Upper

43 100

61 18.7 17.0 25.4

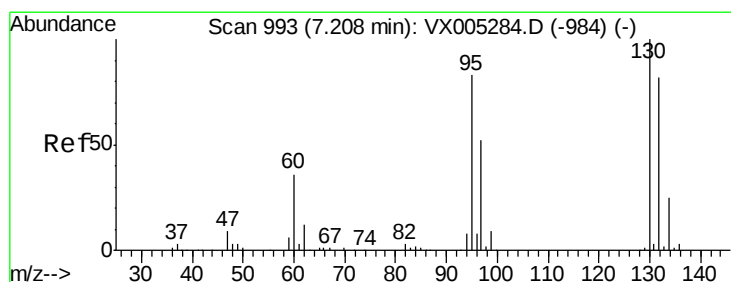
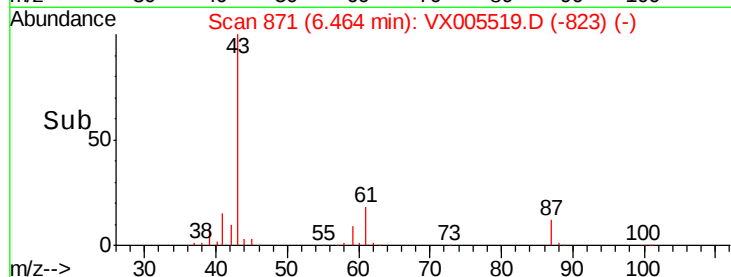
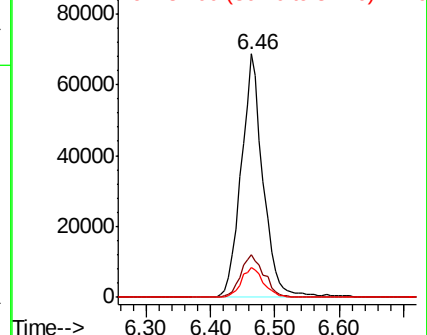
87 12.6 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#44

Trichloroethene

Concen: Below Cal

RT: 7.23 min Scan# 996

Delta R.T. 0.02 min

Lab File: VX005519.D

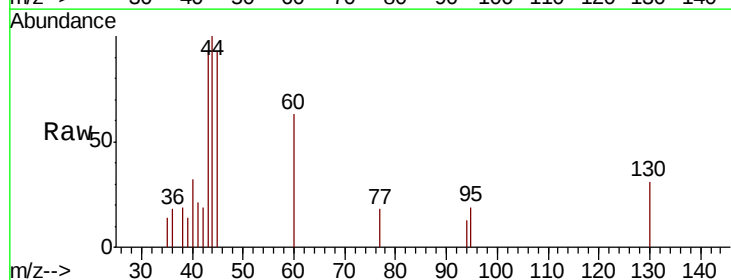
Acq: 23 Oct 2018 14:27

Tgt Ion:130 Resp: 137

Ion Ratio Lower Upper

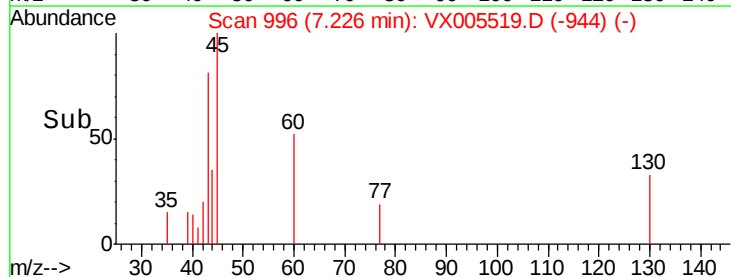
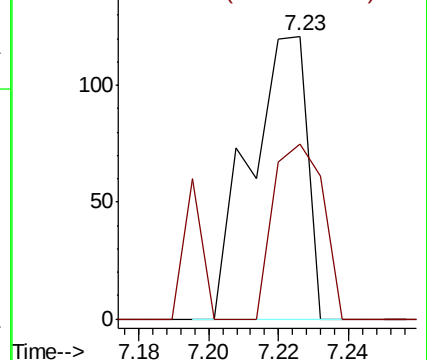
130 100

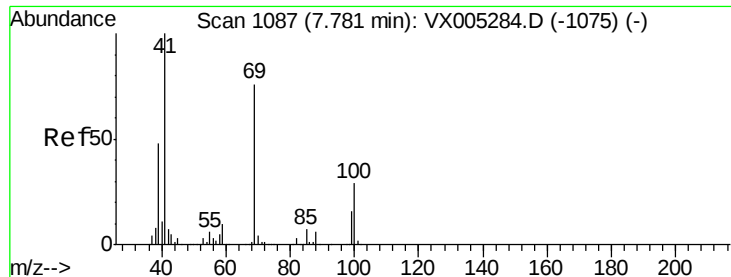
95 62.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

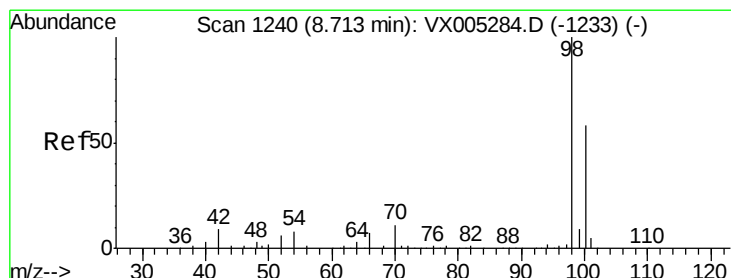
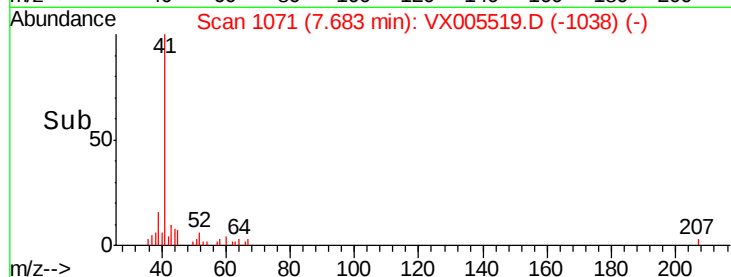
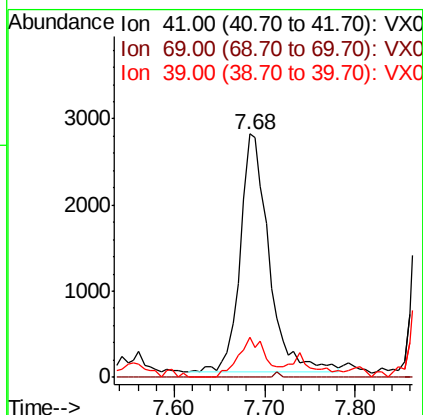
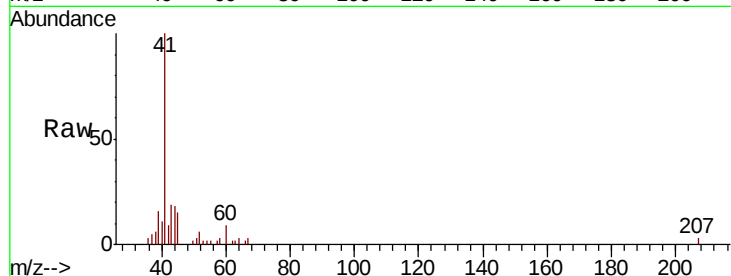




#48
Methyl methacrylate
Concen: 2.273 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

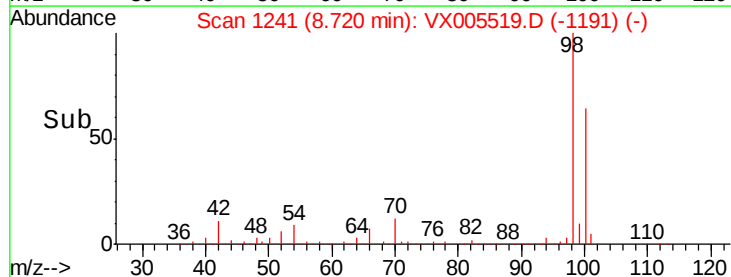
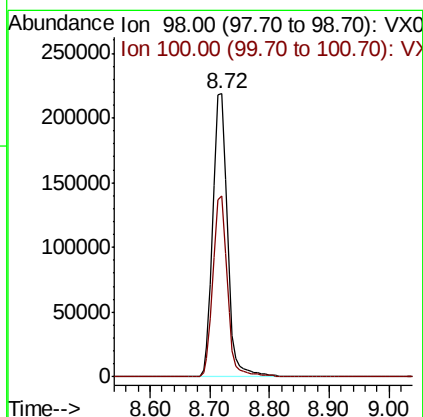
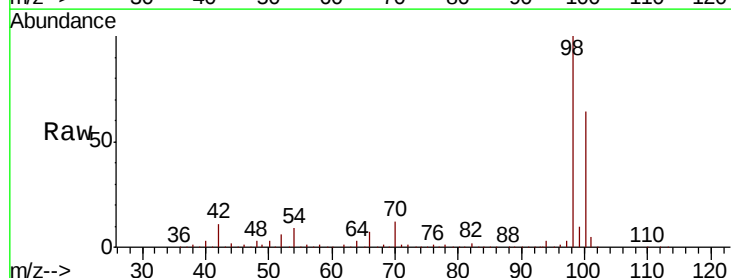
Instrument :
MSVOA_X
ClientSampleId :

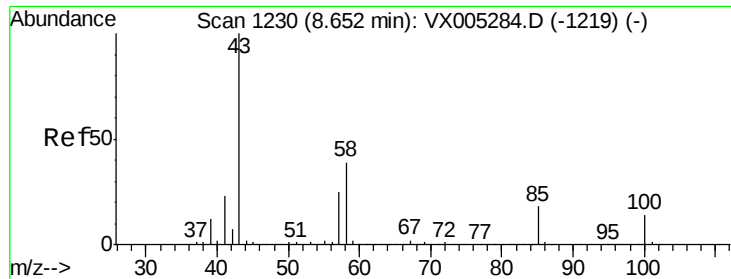
Tot Ion: 41 Resp: 6011
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 16.7 42.7 64.1#



#50
Toluene-d8
Concen: 52.995 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Tgt Ion: 98 Resp: 370391
Ion Ratio Lower Upper
98 100
100 62.6 52.9 79.3

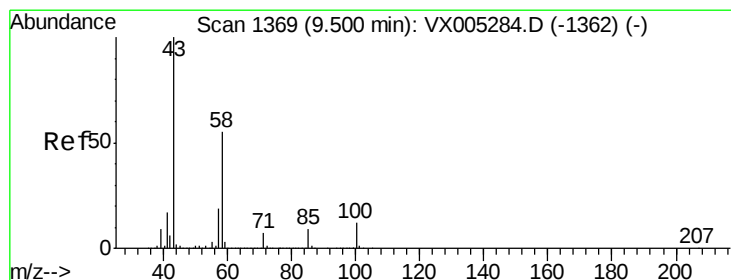
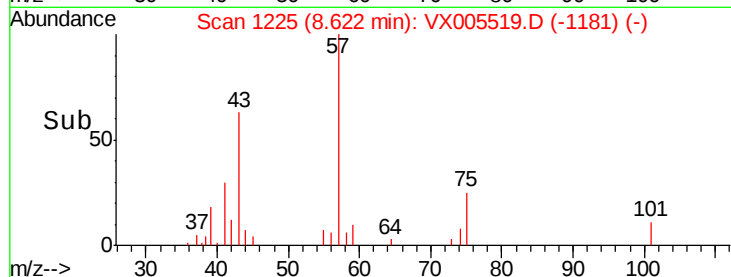
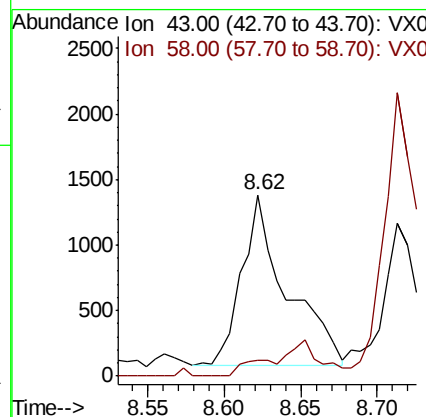
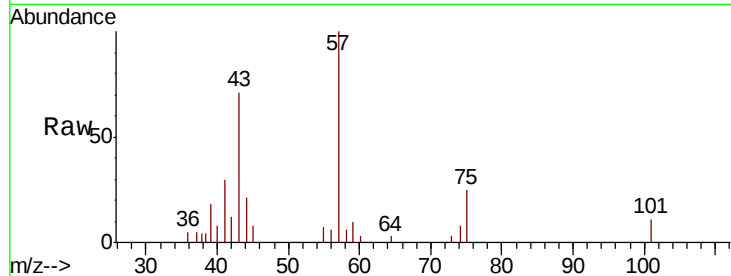




#51
4-Methyl-2-Pentanone
Concen: 0.746 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

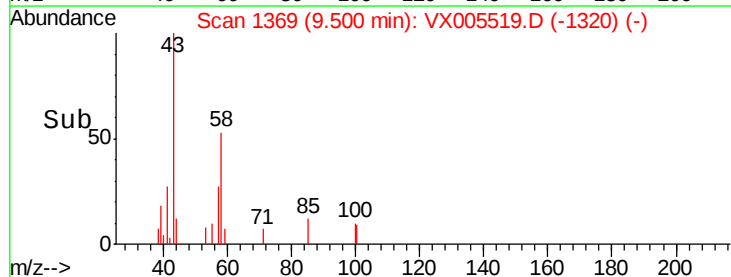
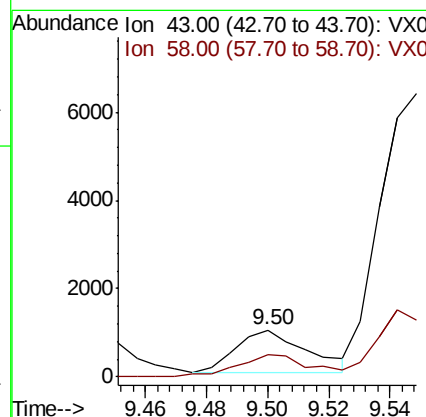
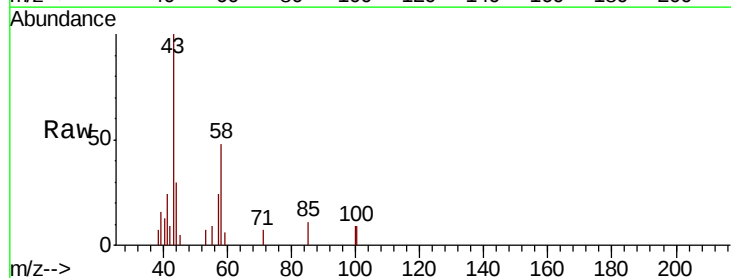
Instrument :
MSVOA_X
ClientSampleId :

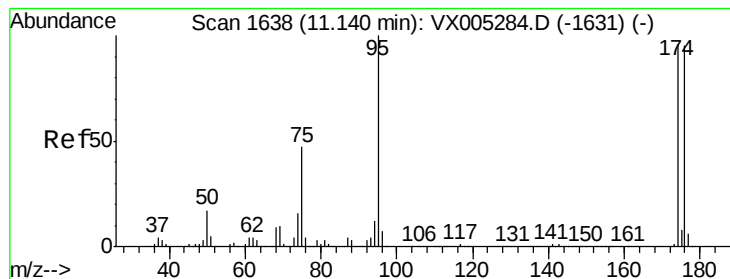
Tot Ion: 43 Resp: 2635
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#59
2-Hexanone
Concen: 0.539 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Tgt Ion: 43 Resp: 1530
Ion Ratio Lower Upper
43 100
58 54.2 29.0 87.0





#62

4-Bromofluorobenzene

Concen: 45.481 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

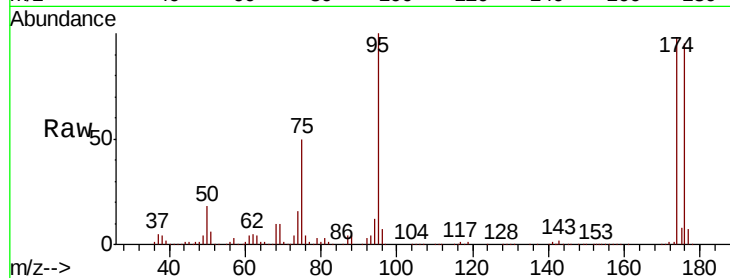
Tot Ion: 95 Resp: 119414

Ion Ratio Lower Upper

95 100

174 93.2 0.0 185.2

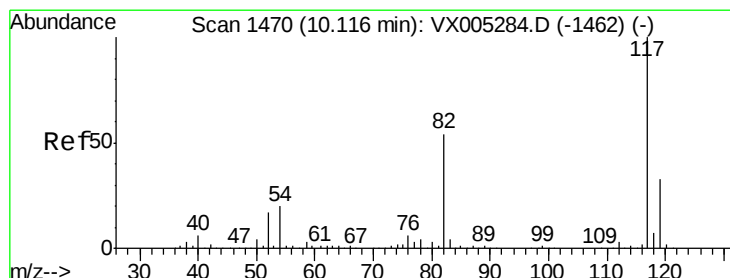
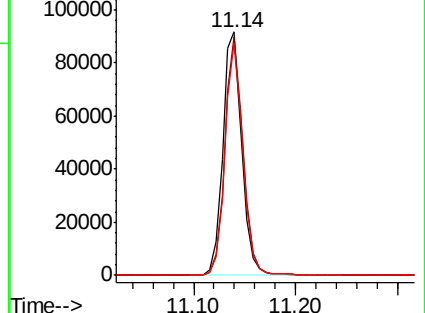
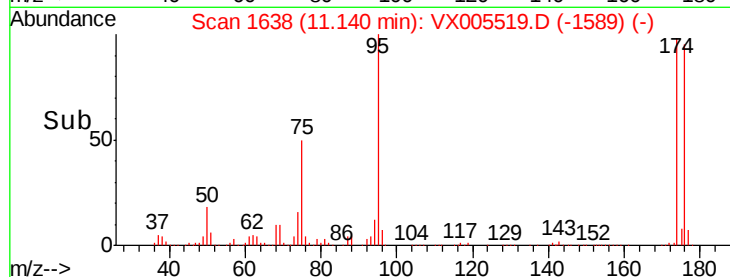
176 89.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005519.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005519.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005519.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

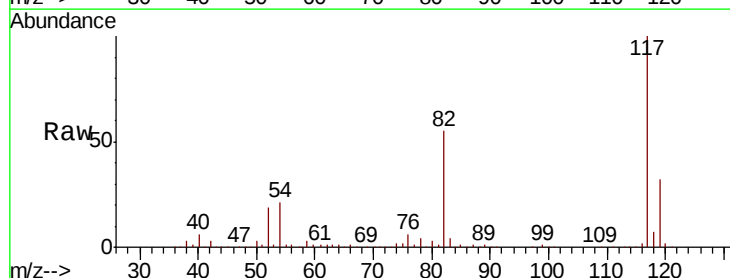
Tgt Ion: 117 Resp: 276528

Ion Ratio Lower Upper

117 100

82 55.4 47.8 71.6

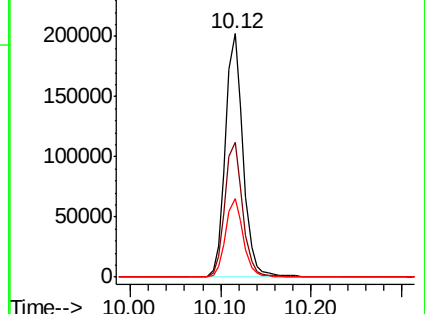
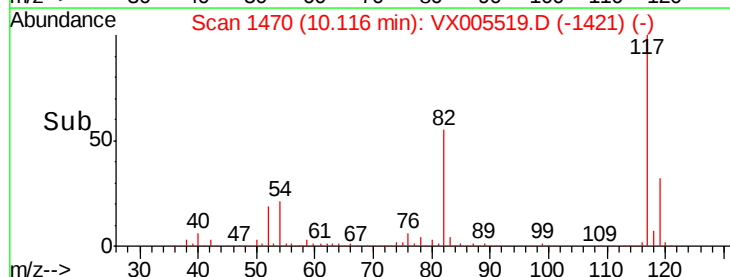
119 32.0 29.3 43.9

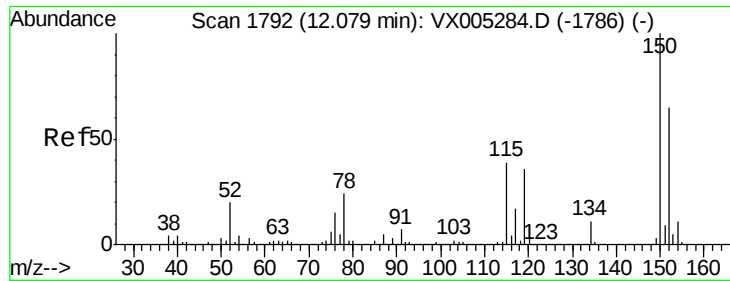


Abundance Ion 116.90 (116.60 to 117.60): VX005519.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005519.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005519.D (-1421) (-)



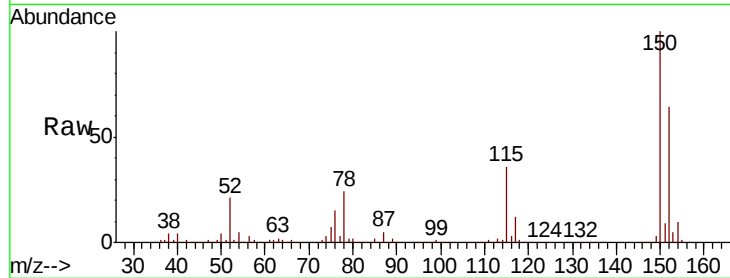


#72

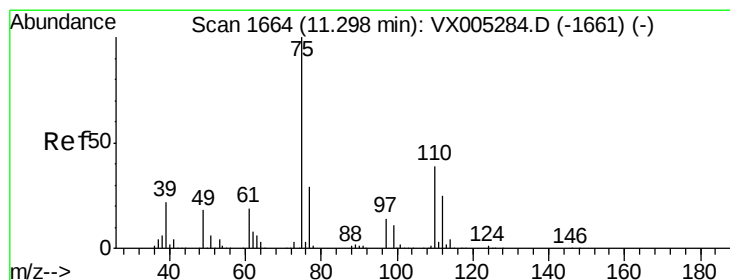
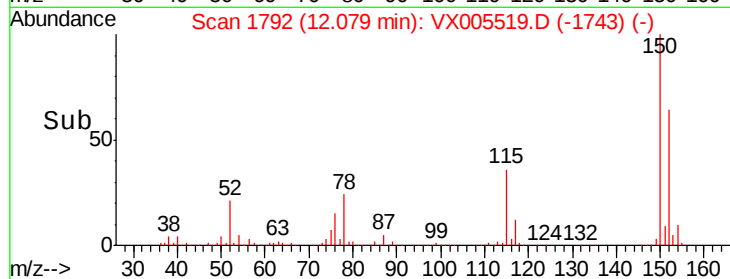
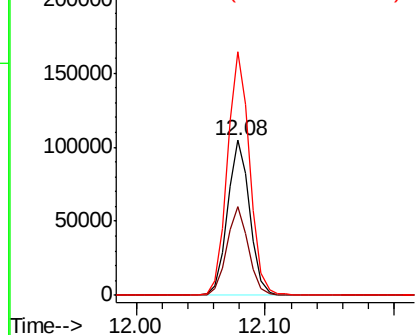
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 127027
Ion Ratio Lower Upper
152 100
115 56.0 39.0 117.0
150 157.3 0.0 351.0



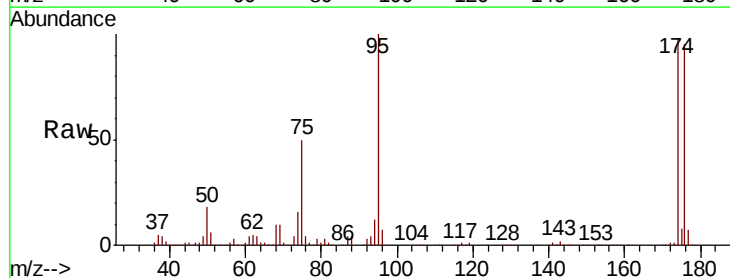
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



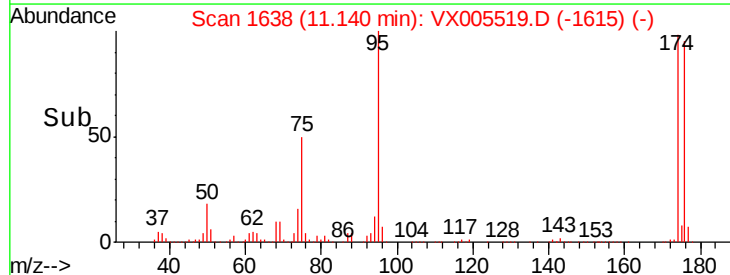
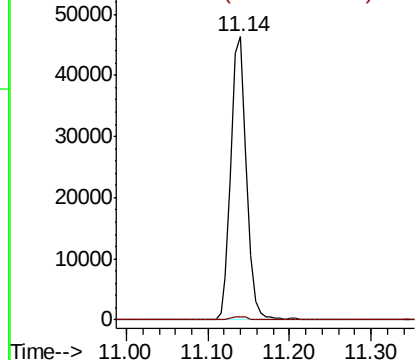
#76

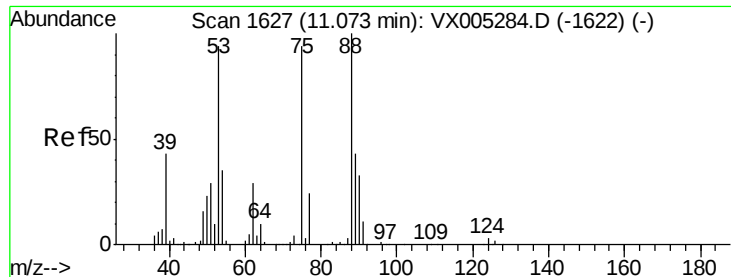
1,2,3-Trichloropropane
Concen: 24.666 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005519.D
Acq: 23 Oct 2018 14:27

Tgt Ion: 75 Resp: 60777
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





#81

trans-1,4-Dichloro-2-butene

Concen: 74.948 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005519.D

Acq: 23 Oct 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

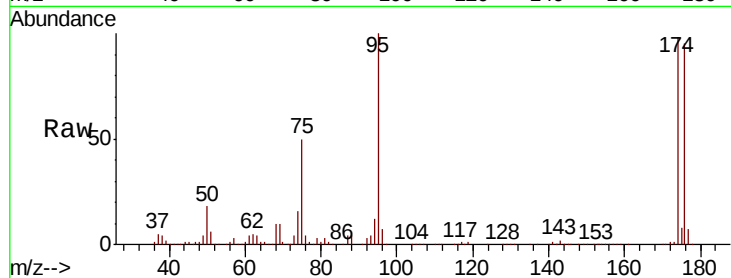
Tot Ion: 75 Resp: 60777

Ion Ratio Lower Upper

75 100

53 0.3 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

