

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103019\
 Data File : VX013287.D
 Acq On : 30 Oct 2019 15:59
 Operator : JC/SP
 Sample : K5602-07RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 31 01:41:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	72161	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	104541	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	102594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	65929	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	79142	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	
35) Dibromofluoromethane	5.49	113	590	0.51	ug/l	0.00
Spiked Amount			Recovery	=	1.02%	
50) Toluene-d8	8.71	98	207934	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
62) 4-Bromofluorobenzene	11.14	95	77180	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	

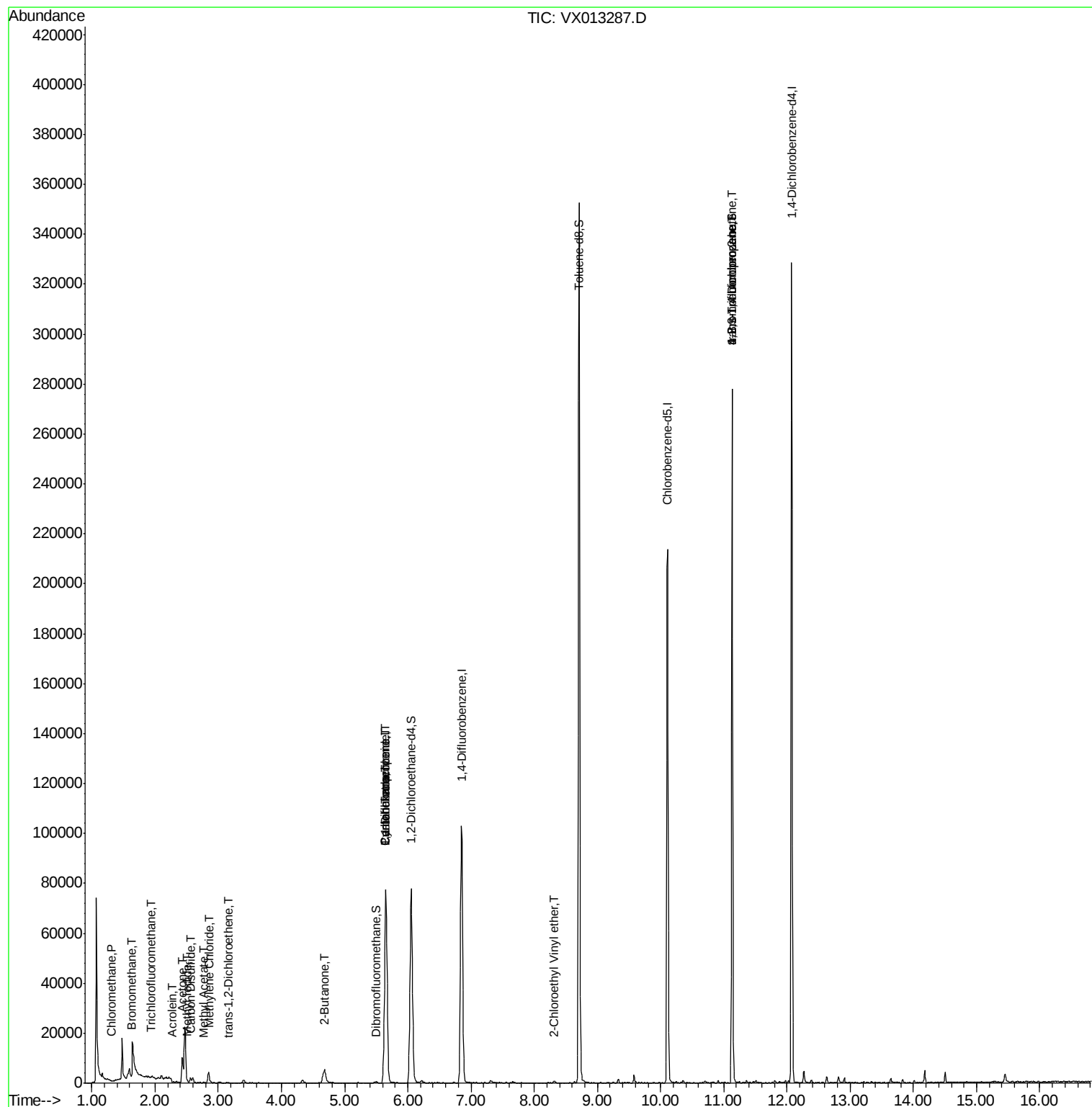
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	36	1.007	ug/l #	40
5) Bromomethane	1.63	94	362	0.521	ug/l #	38
6) Chloroethane	1.84	64	20	Below Cal	#	43
7) Trichlorofluoromethane	1.92	101	92	0.343	ug/l #	67
10) Methyl Iodide	2.51	142	313	3.721	ug/l #	86
11) Tert butyl alcohol	3.03	59	207	Below Cal	#	72
13) Acrolein	2.28	56	209	1.180	ug/l	94
16) Acetone	2.43	43	10661	14.993	ug/l	93
17) Carbon Disulfide	2.56	76	2377	0.719	ug/l #	89
18) Methyl Acetate	2.77	43	193	1.091	ug/l #	49
20) Methylene Chloride	2.84	84	2183	1.921	ug/l #	84
21) trans-1,2-Dichloroethene	3.17	96	85	0.542	ug/l #	45
25) 2-Butanone	4.67	43	1974	2.070	ug/l	96
31) Cyclohexane	5.65	56	1437	0.736	ug/l #	21
36) 1,1-Dichloropropene	5.65	75	5304	2.958	ug/l #	49
38) Carbon Tetrachloride	5.65	117	7251	3.753	ug/l #	14
58) 2-Chloroethyl Vinyl ether	8.32	63	351	0.434	ug/l #	65
64) Tetrachloroethene	9.32	164	102	Below Cal	#	26
76) 1,2,3-Trichloropropane	11.14	75	39666	24.963	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	39666	68.596	ug/l #	10

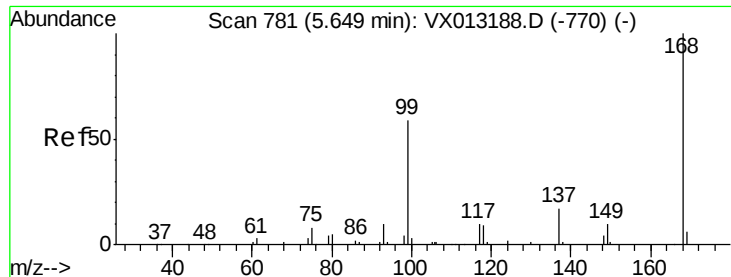
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 24 03:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

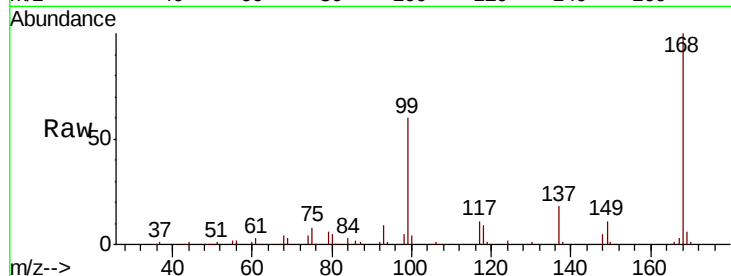
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 72161

Ion Ratio Lower Upper

168 100

99 60.1 47.0 70.4

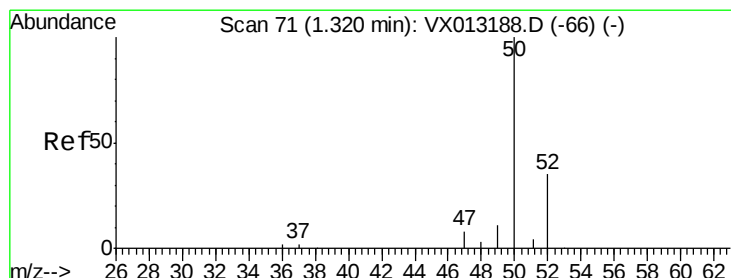
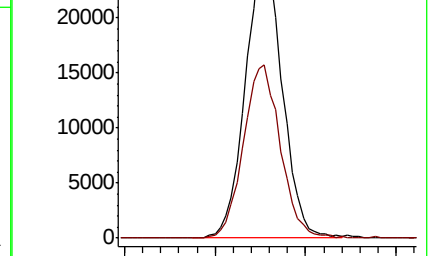
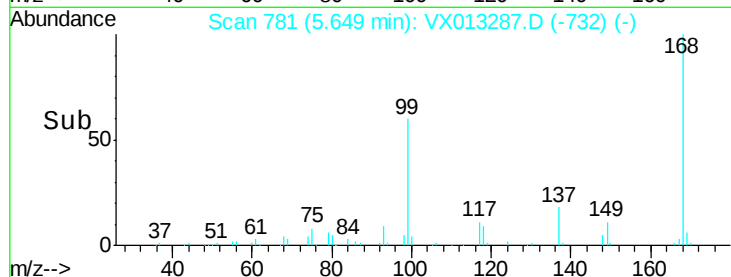


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

Time-->



#3

Chloromethane

Concen: 1.007 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX013287.D

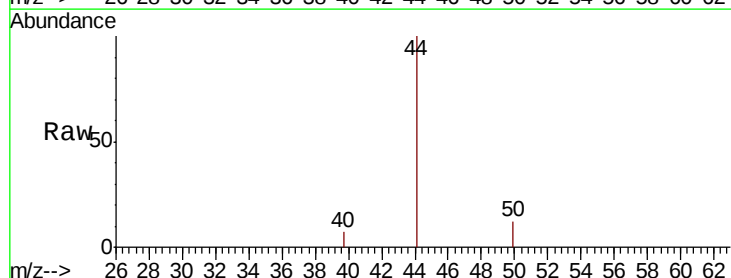
Acq: 30 Oct 2019 15:59

Tgt Ion: 50 Resp: 36

Ion Ratio Lower Upper

50 100

52 0.0 27.8 41.6#

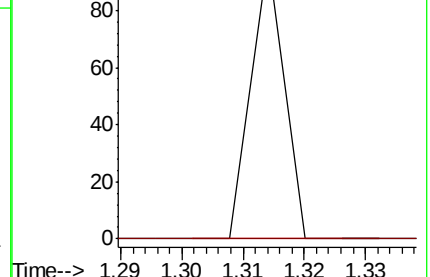
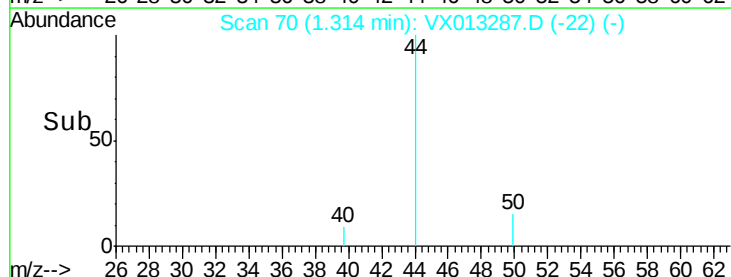


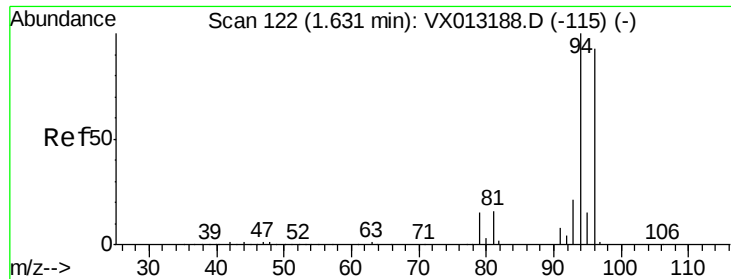
Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

Time-->





#5

Bromomethane

Concen: 0.521 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

Instrument :

MSVOA_X

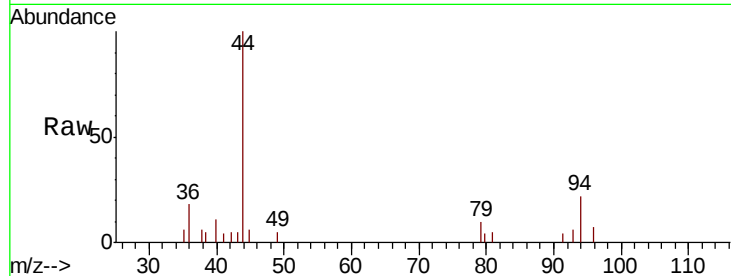
ClientSampled :

Tot Ion: 94 Resp: 362

Ion Ratio Lower Upper

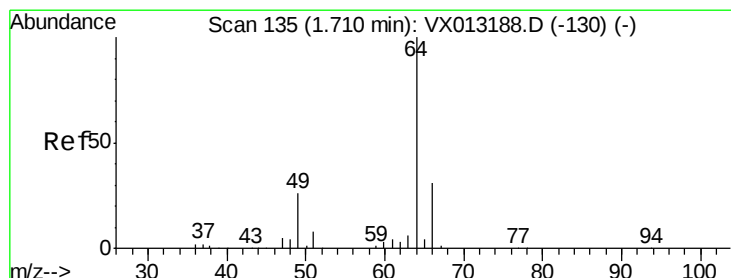
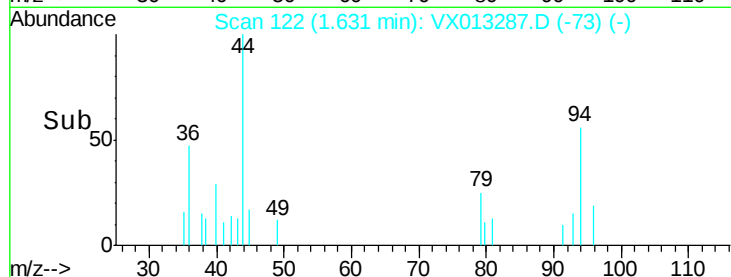
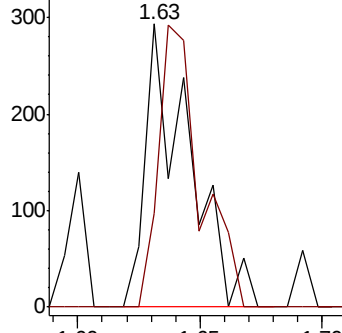
94 100

96 33.1 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.84 min Scan# 157

Delta R.T. 0.13 min

Lab File: VX013287.D

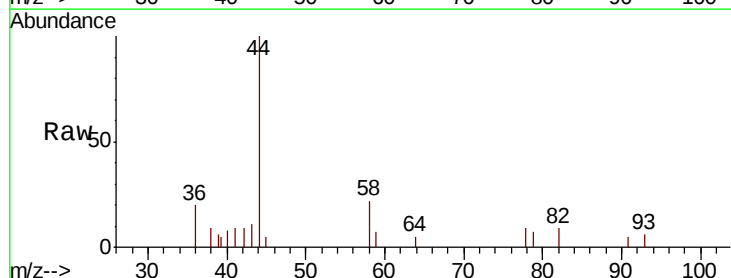
Acq: 30 Oct 2019 15:59

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

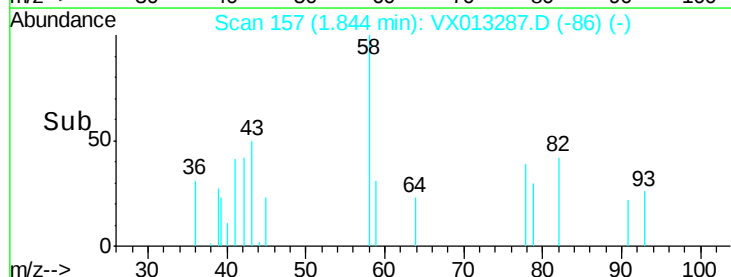
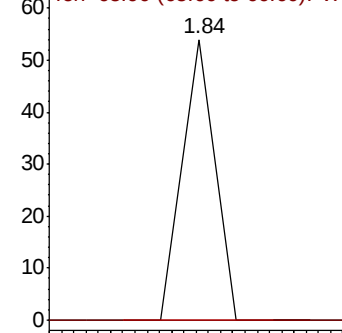
64 100

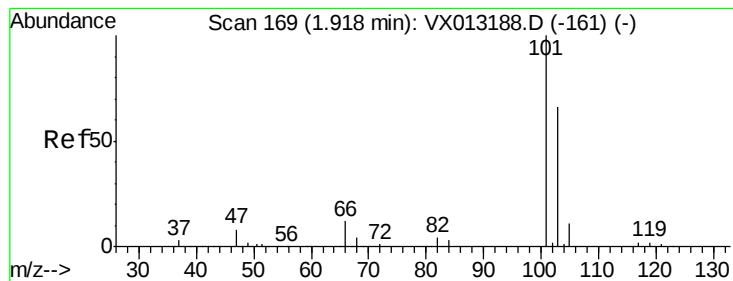
66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



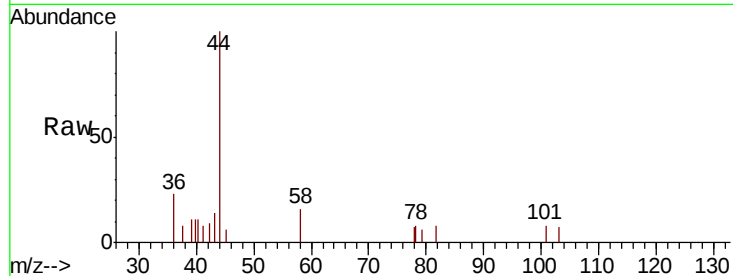


#7

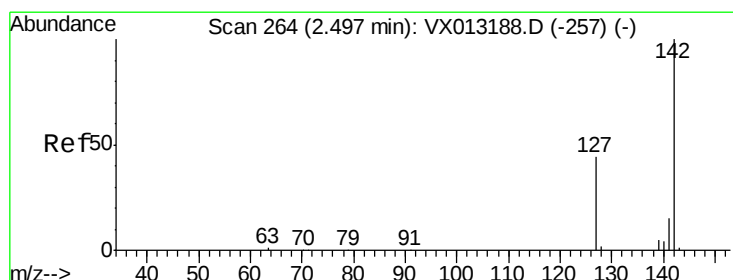
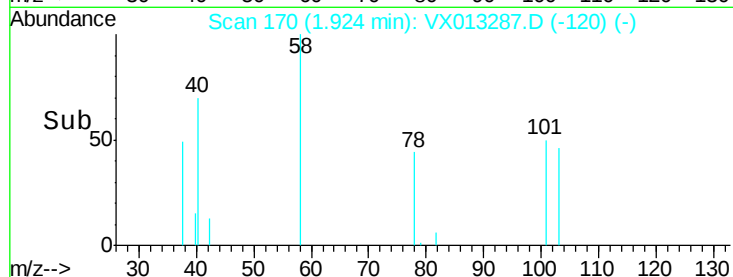
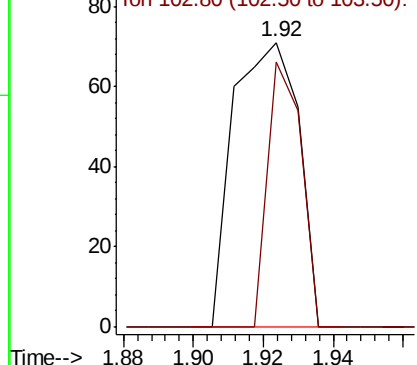
Trichlorofluoromethane
 Concen: 0.343 ug/l
 RT: 1.92 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:101 Resp: 92
 Ion Ratio Lower Upper
 101 100
 103 93.0 53.0 79.6#



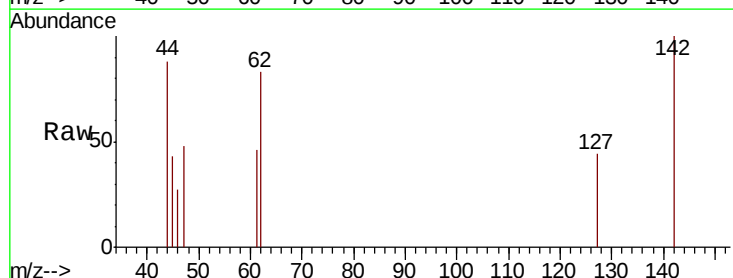
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



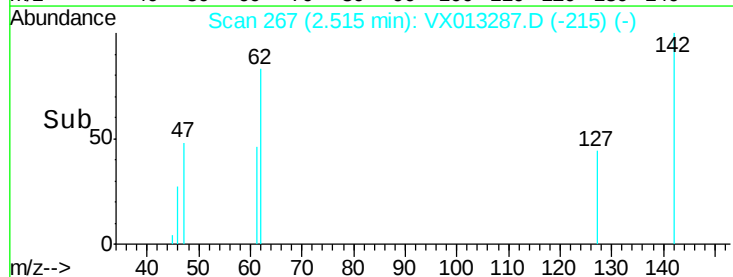
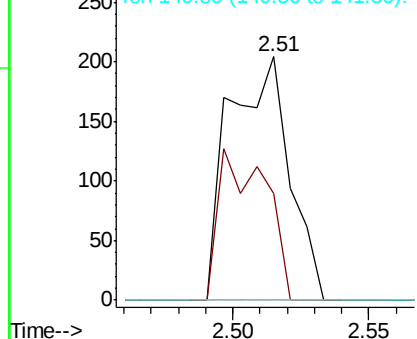
#10

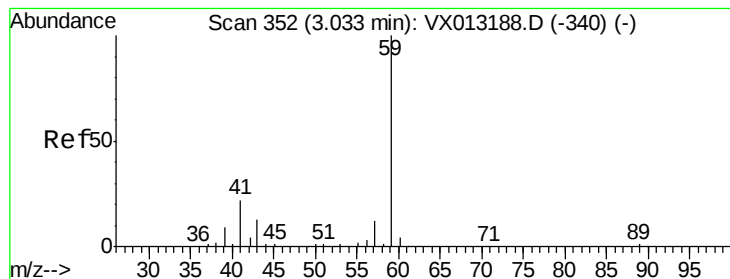
Methyl Iodide
 Concen: 3.721 ug/l
 RT: 2.51 min Scan# 267
 Delta R.T. 0.02 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Tgt Ion:142 Resp: 313
 Ion Ratio Lower Upper
 142 100
 127 48.9 35.6 53.4
 141 0.0 11.6 17.4#



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



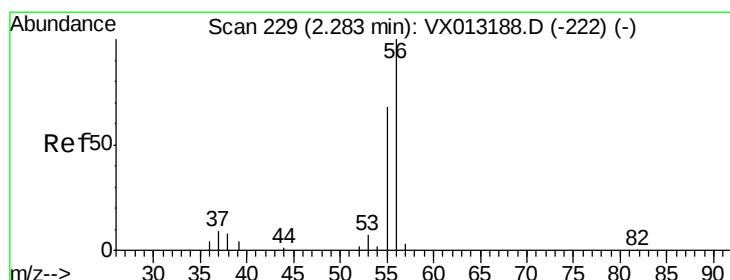
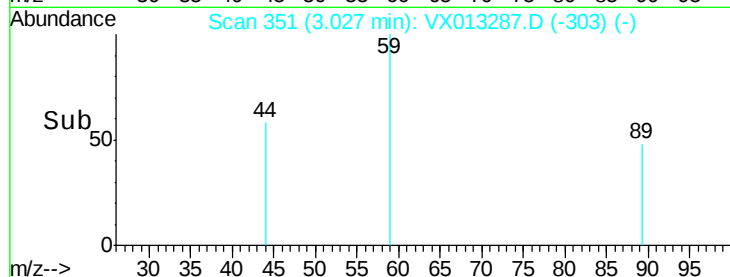
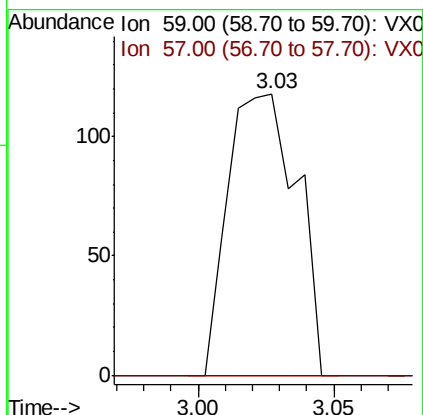
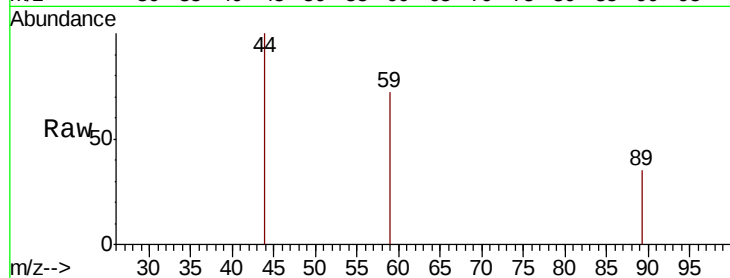


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Instrument :
 MSVOA_X
 ClientSampled :

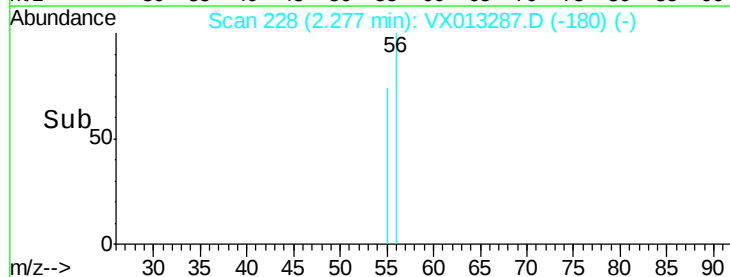
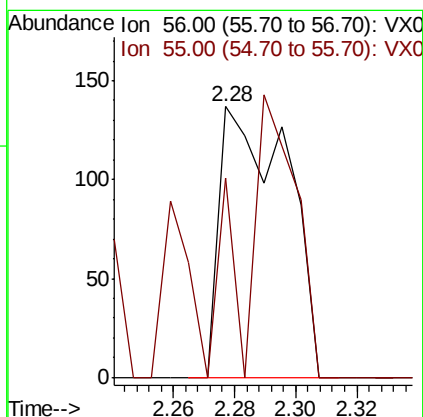
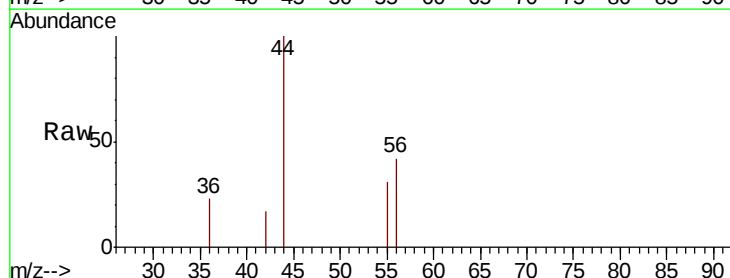
Tot Ion: 59 Resp: 207
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

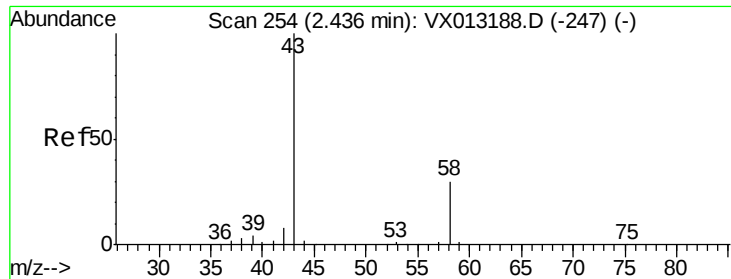


#13

Acrolein
 Concen: 1.180 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Tgt Ion: 56 Resp: 209
 Ion Ratio Lower Upper
 56 100
 55 78.9 58.9 88.3





#16

Acetone

Concen: 14.993 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

Instrument :

MSVOA_X

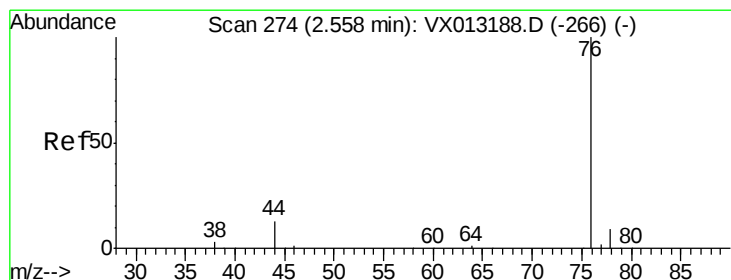
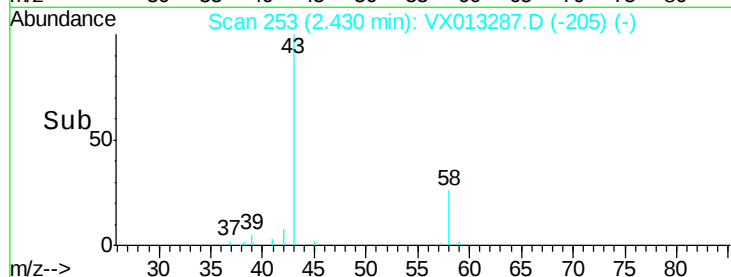
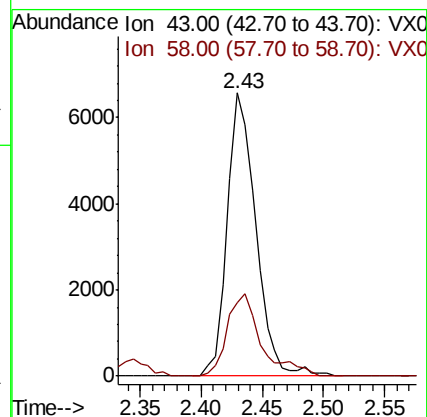
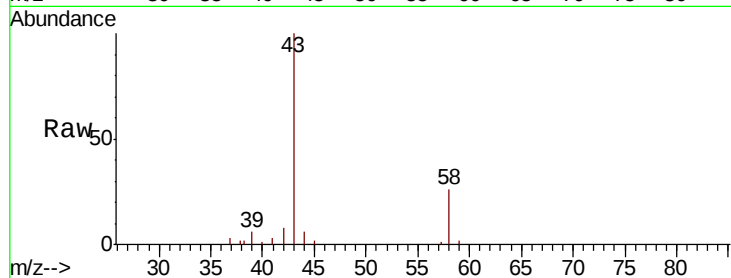
ClientSampleId :

Tot Ion: 43 Resp: 10661

Ion Ratio Lower Upper

43 100

58 25.9 23.8 35.6



#17

Carbon Disulfide

Concen: 0.719 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013287.D

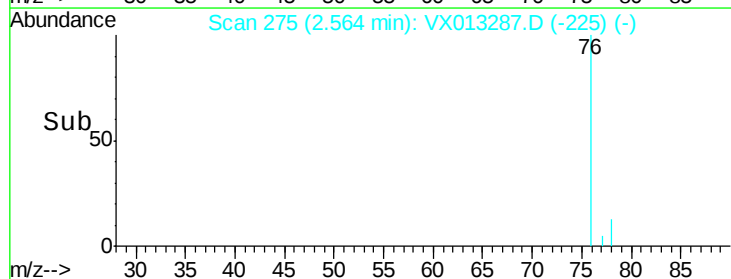
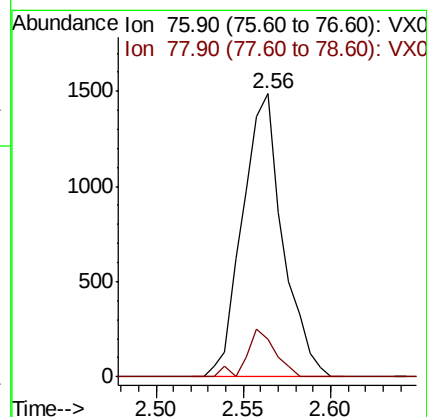
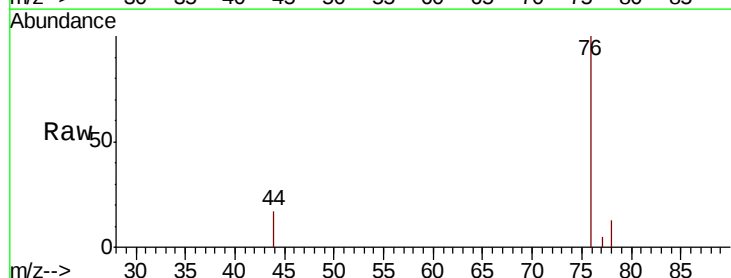
Acq: 30 Oct 2019 15:59

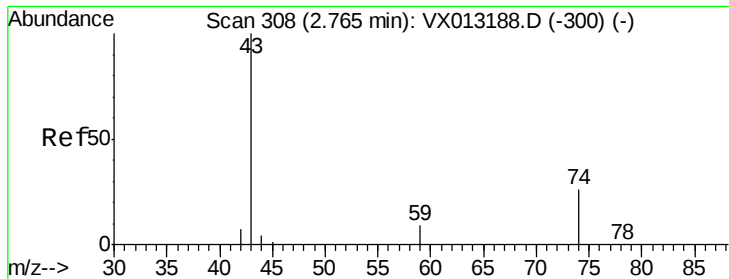
Tgt Ion: 76 Resp: 2377

Ion Ratio Lower Upper

76 100

78 13.4 7.4 11.2#

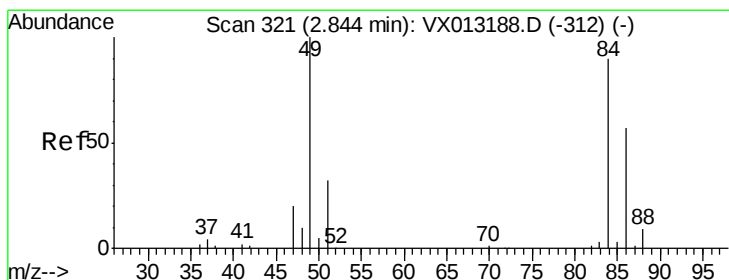
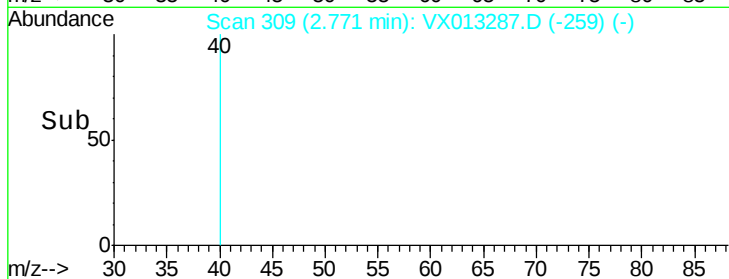
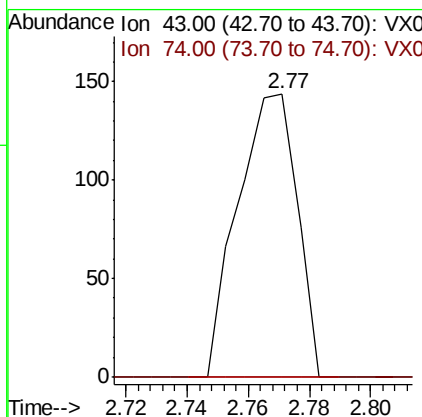
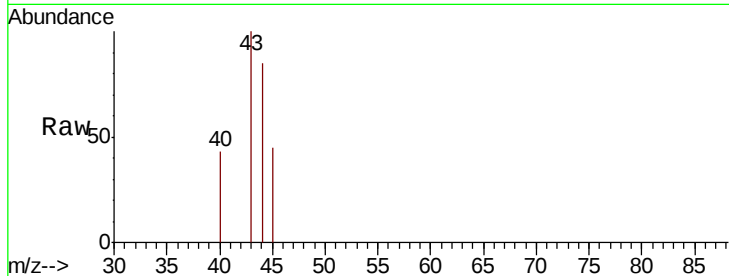




#18
Methyl Acetate
Concen: 1.091 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

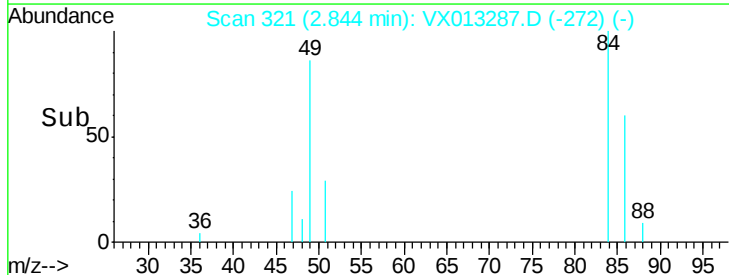
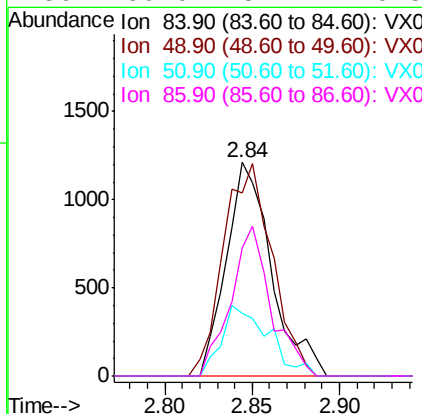
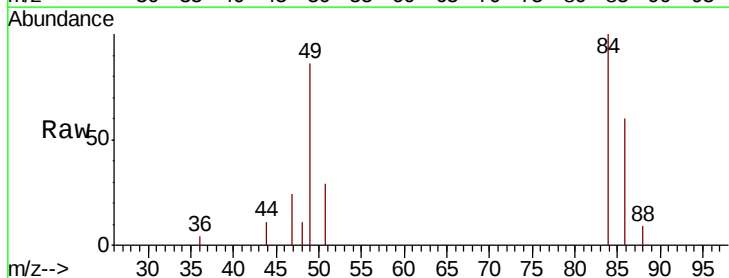
Instrument :
MSVOA_X
ClientSampleId :

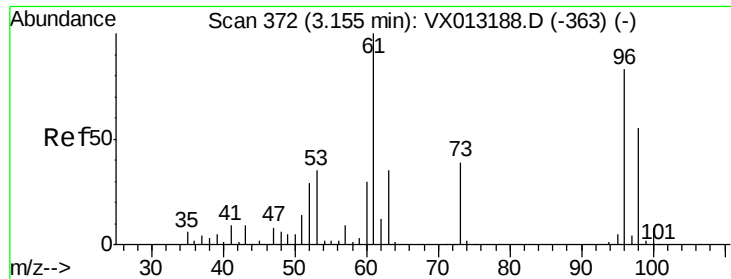
Tot Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 1.921 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

Tgt Ion: 84 Resp: 2183
Ion Ratio Lower Upper
84 100
49 85.6 89.2 133.8#
51 29.4 28.8 43.2
86 60.0 51.2 76.8

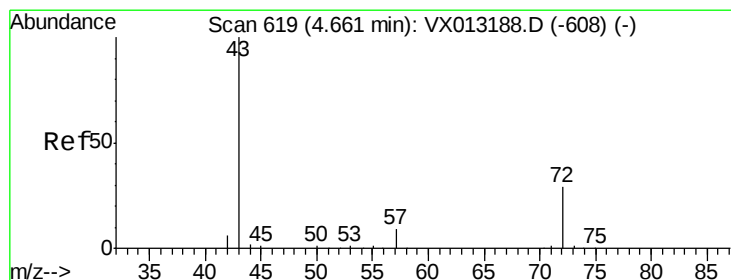
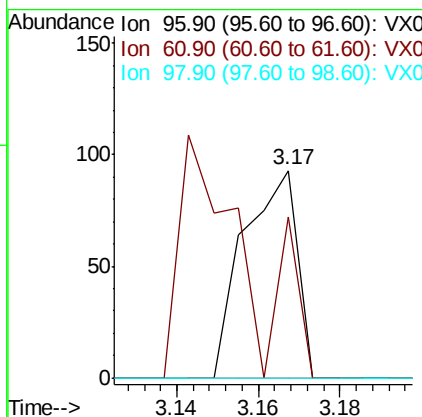
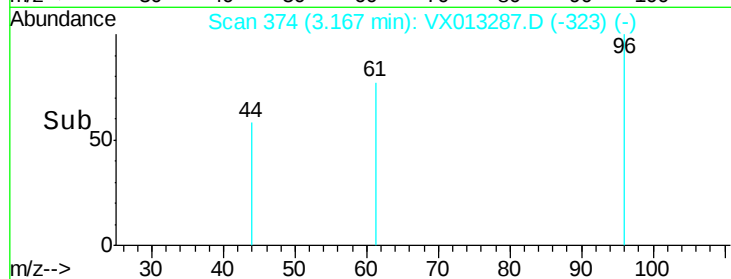
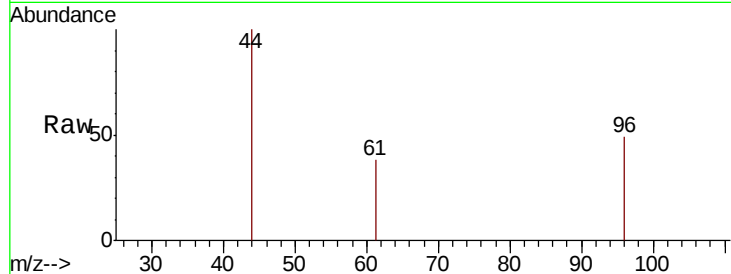




#21
 trans-1,2-Dichloroethene
 Concen: 0.542 ug/l
 RT: 3.17 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

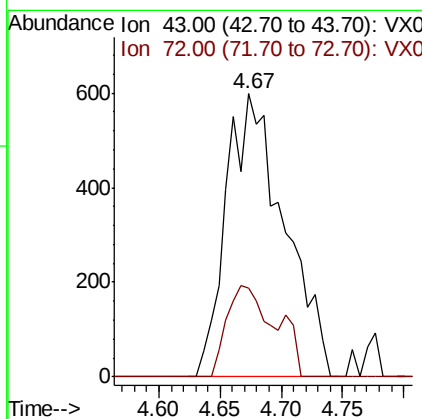
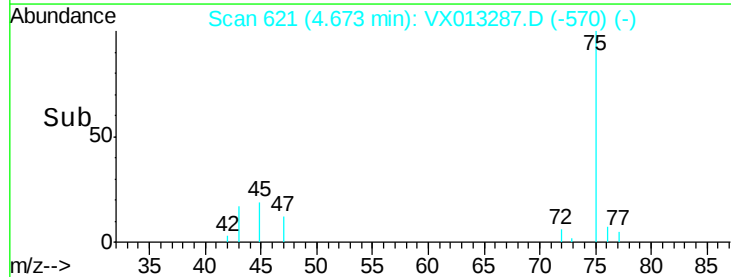
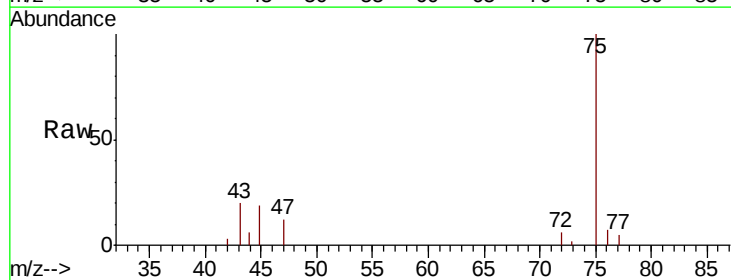
Instrument :
 MSVOA_X
 ClientSampled :

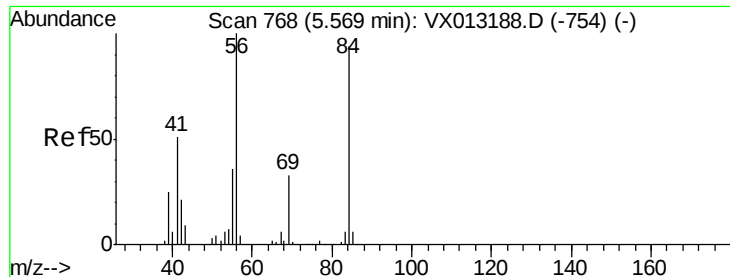
Tot Ion: 96 Resp: 85
 Ion Ratio Lower Upper
 96 100
 61 77.4 96.9 145.3#
 98 0.0 53.0 79.4#



#25
 2-Butanone
 Concen: 2.070 ug/l
 RT: 4.67 min Scan# 621
 Delta R.T. 0.01 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Tgt Ion: 43 Resp: 1974
 Ion Ratio Lower Upper
 43 100
 72 31.6 23.4 35.2

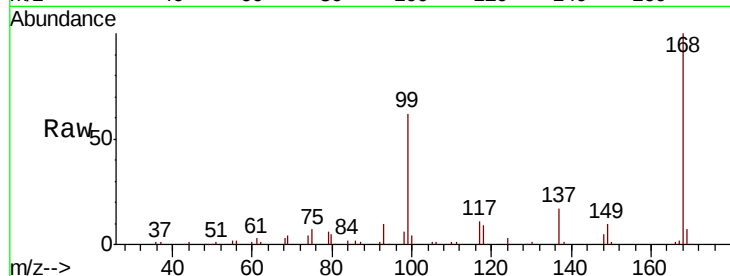




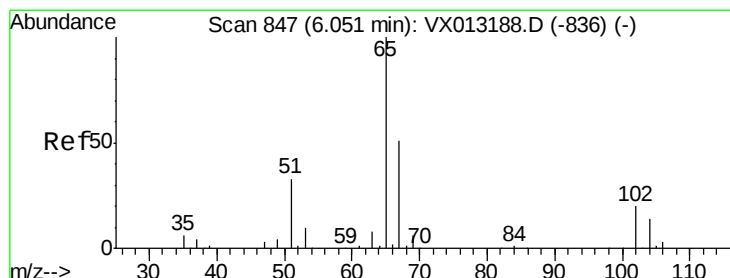
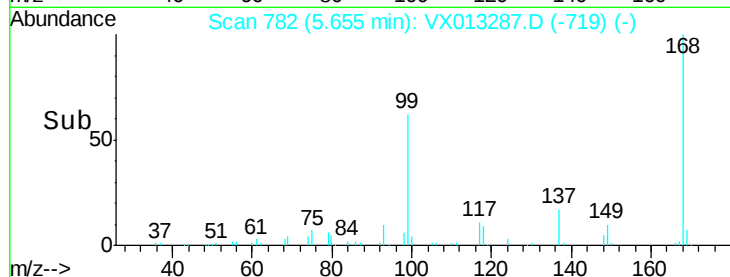
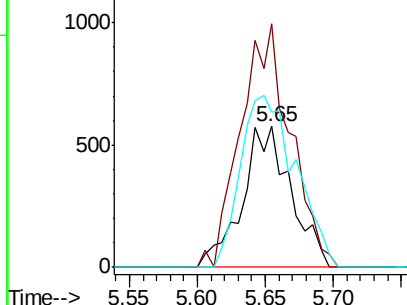
#31
Cyclohexane
Concen: 0.736 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 1437
Ion Ratio Lower Upper
56 100
69 172.6 26.3 39.5#
84 110.1 73.8 110.6

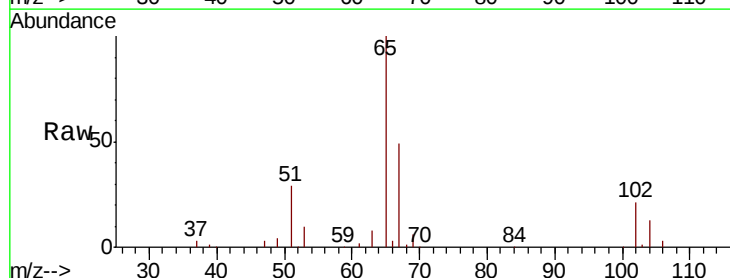


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

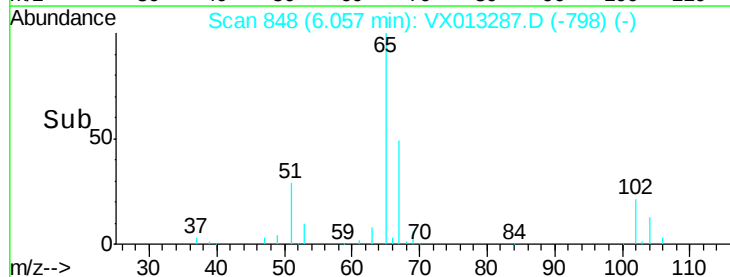
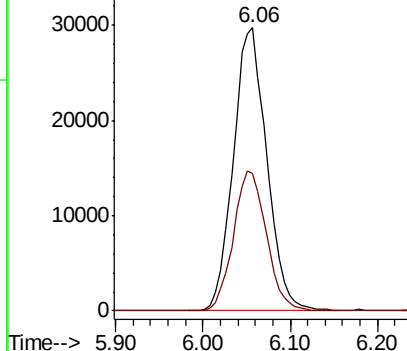


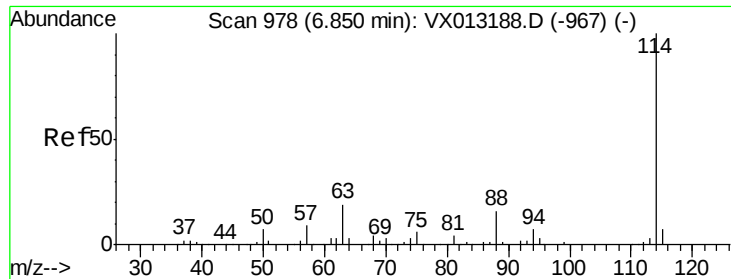
#33
1,2-Dichloroethane-d4
Concen: 52.437 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

Tgt Ion: 65 Resp: 79142
Ion Ratio Lower Upper
65 100
67 48.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

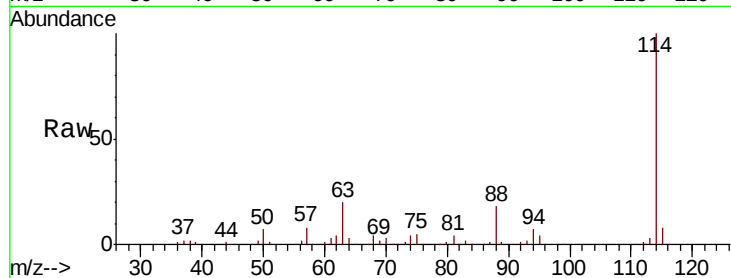




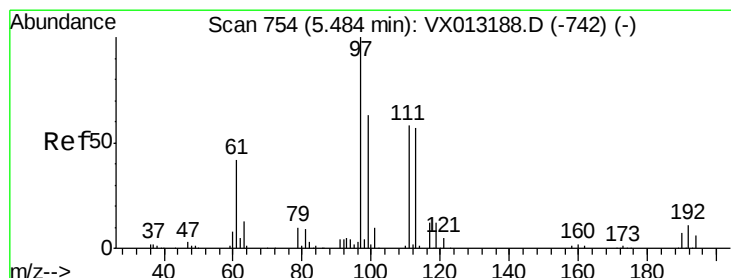
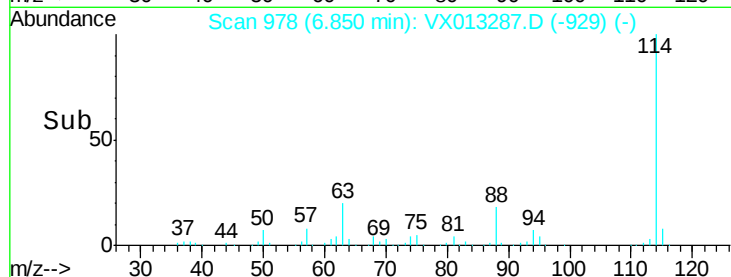
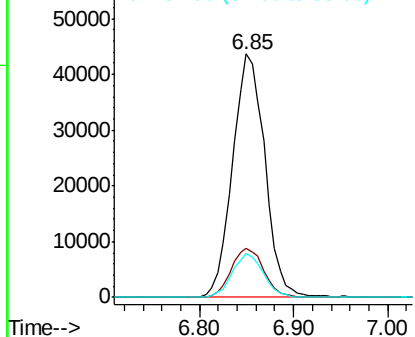
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:114 Resp: 104541
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 18.1 0.0 32.0

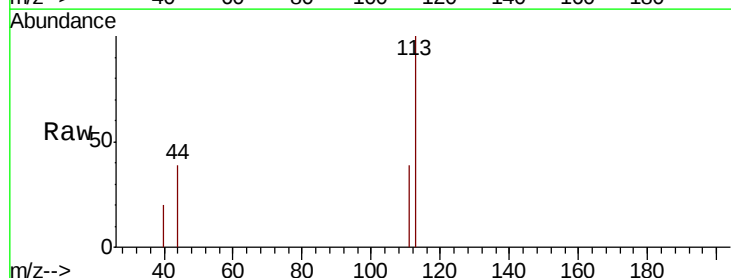


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

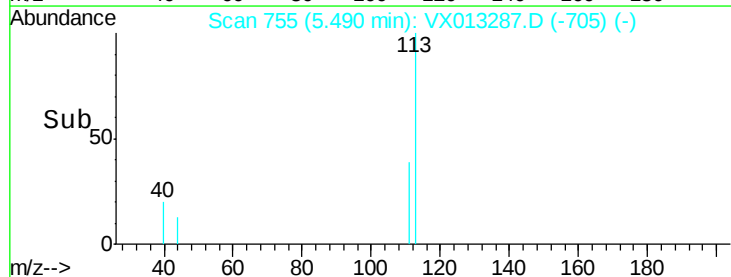
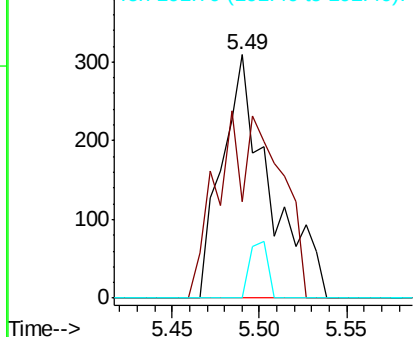


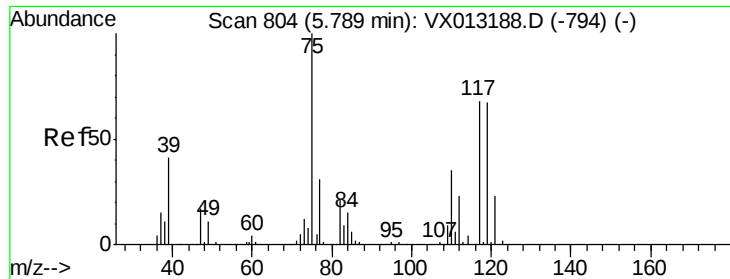
#35
 Dibromofluoromethane
 Concen: 0.506 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Tgt Ion:113 Resp: 590
 Ion Ratio Lower Upper
 113 100
 111 43.2 80.3 120.5#
 192 8.5 15.9 23.9#



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

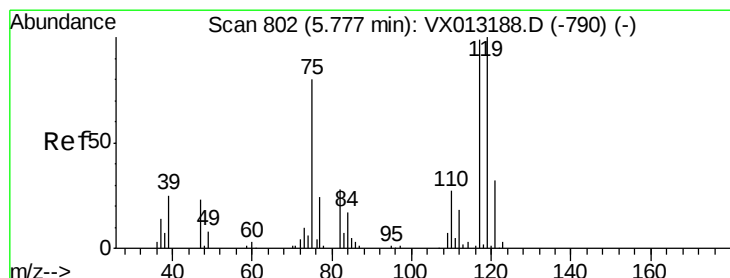
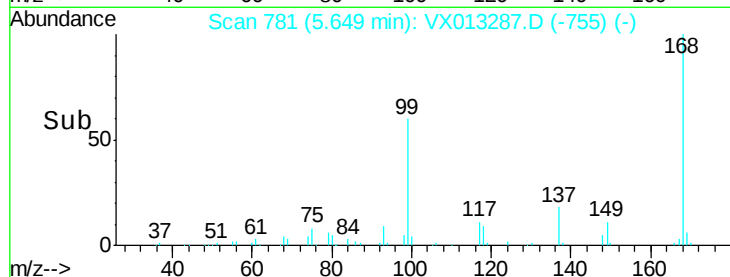
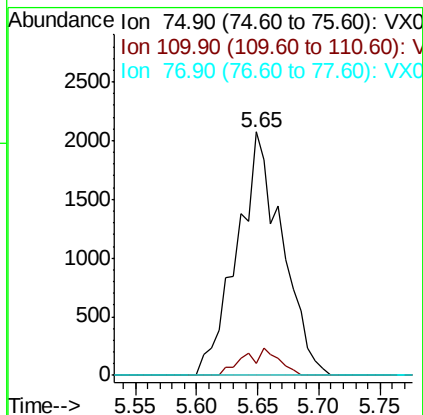
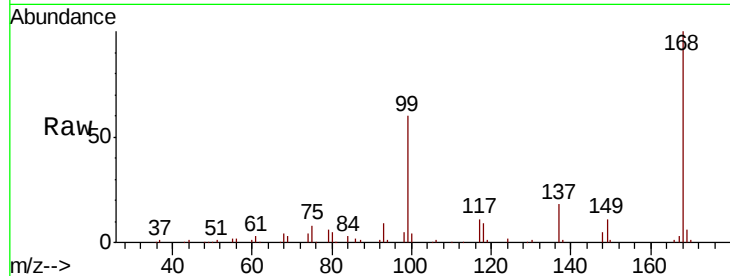




#36
 1,1-Dichloropropene
 Concen: 2.958 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

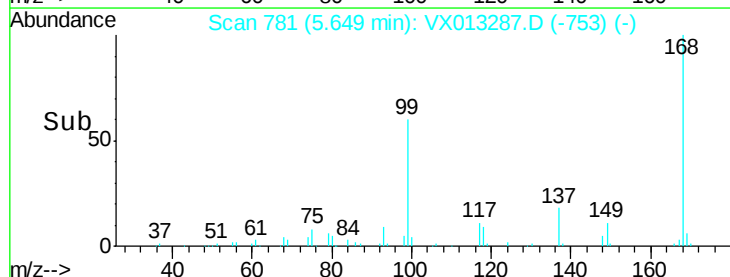
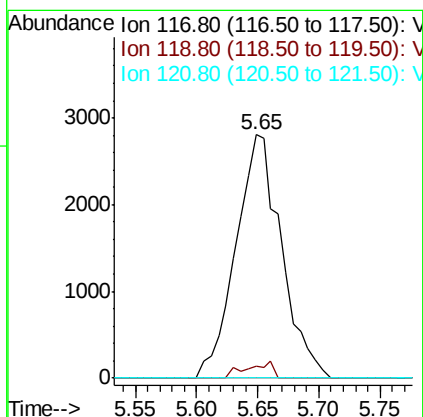
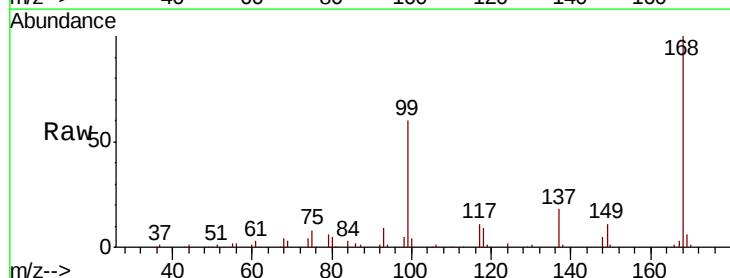
Instrument :
 MSVOA_X
 ClientSampled :

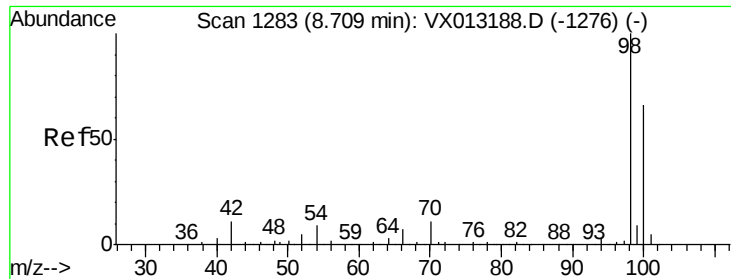
Tot Ion: 75 Resp: 5304
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.6 52.9#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 3.753 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013287.D
 Acq: 30 Oct 2019 15:59

Tgt Ion: 117 Resp: 7251
 Ion Ratio Lower Upper
 117 100
 119 5.0 80.1 120.1#
 121 0.0 25.5 38.3#

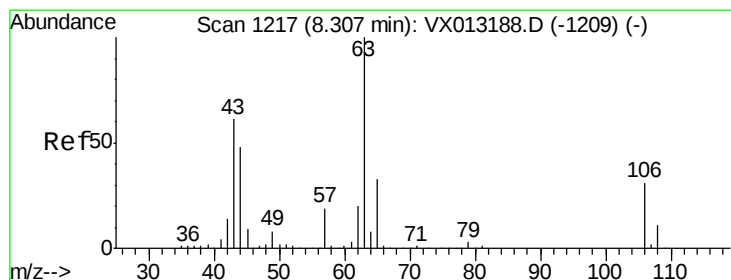
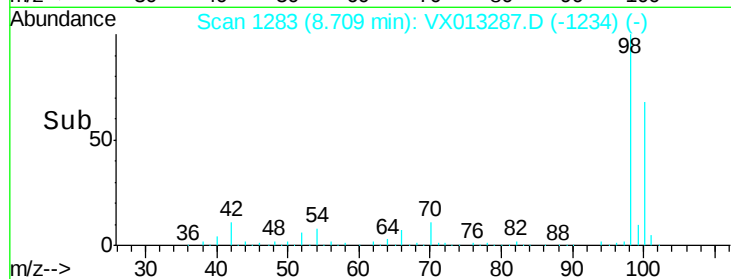
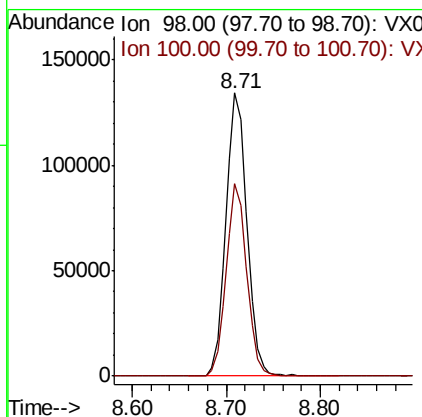
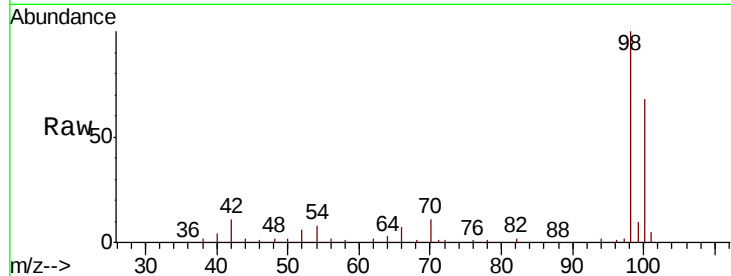




#50
Toluene-d8
Concen: 48.130 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

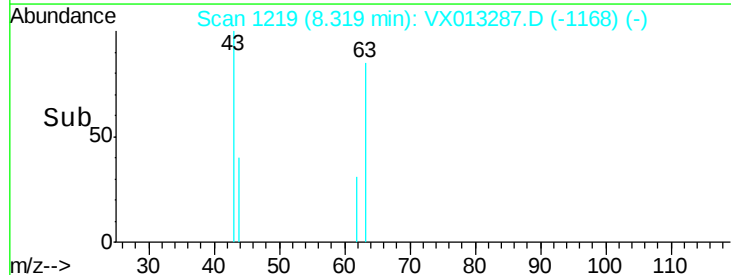
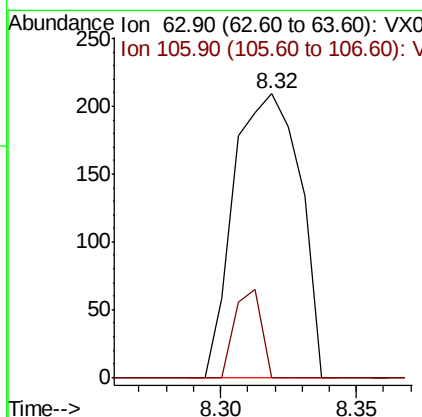
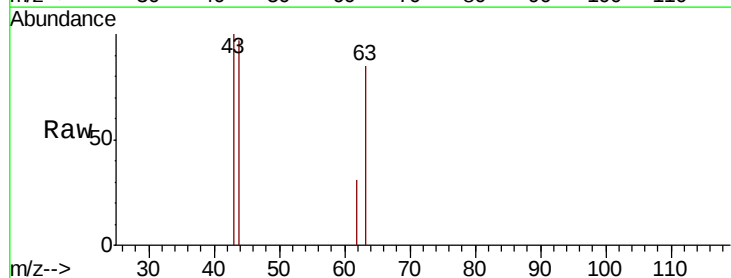
Instrument :
MSVOA_X
ClientSampled :

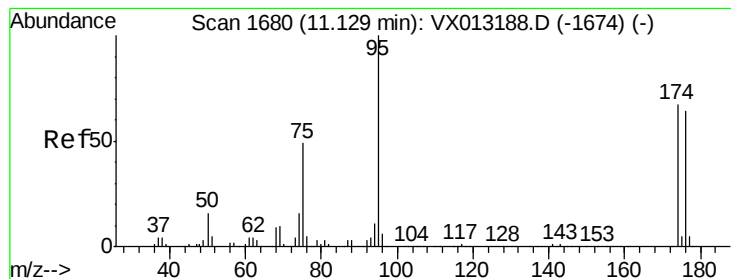
Tot Ion: 98 Resp: 207934
Ion Ratio Lower Upper
98 100
100 66.6 53.3 79.9



#58
2-Chloroethyl Vinyl ether
Concen: 0.434 ug/l
RT: 8.32 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

Tgt Ion: 63 Resp: 351
Ion Ratio Lower Upper
63 100
106 12.5 25.4 38.0#





#62

4-Bromofluorobenzene

Concen: 45.135 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

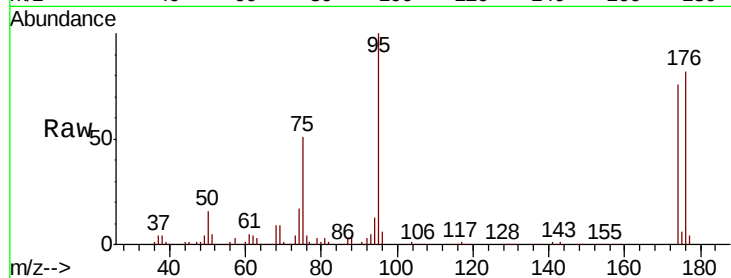
Tot Ion: 95 Resp: 77180

Ion Ratio Lower Upper

95 100

174 75.5 0.0 152.4

176 77.3 0.0 146.0

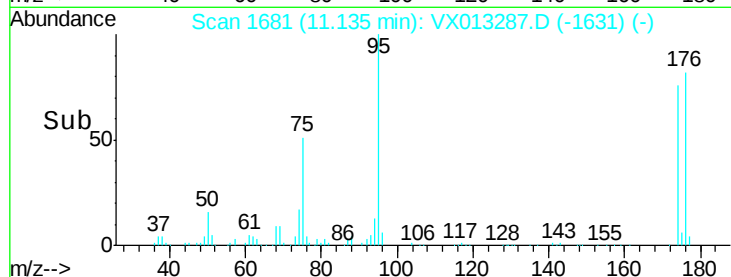


Abundance Ion 94.90 (94.60 to 95.60): VX013188.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013188.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013188.D (-1674) (-)

Time-->

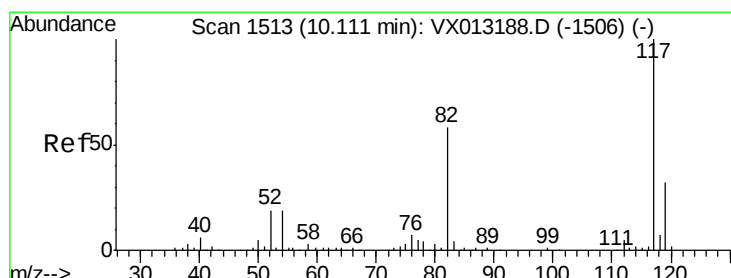


Abundance Ion 94.90 (94.60 to 95.60): VX013287.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX013287.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX013287.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

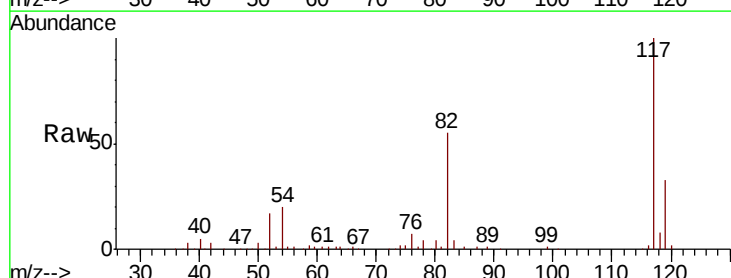
Tgt Ion: 117 Resp: 102594

Ion Ratio Lower Upper

117 100

82 54.9 46.5 69.7

119 32.8 25.2 37.8

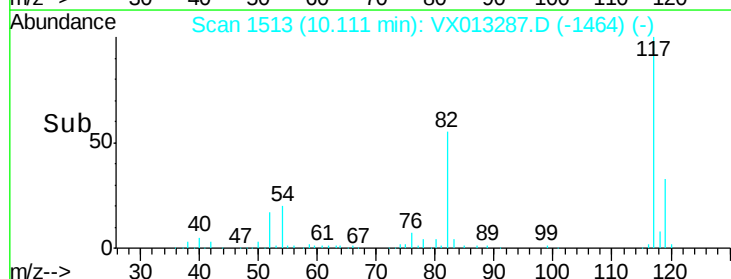


Abundance Ion 116.90 (116.60 to 117.60): VX013188.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX013188.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX013188.D (-1506) (-)

Time-->

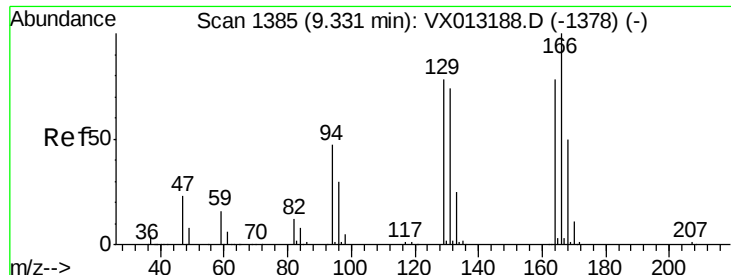


Abundance Ion 116.90 (116.60 to 117.60): VX013287.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013287.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013287.D (-1464) (-)

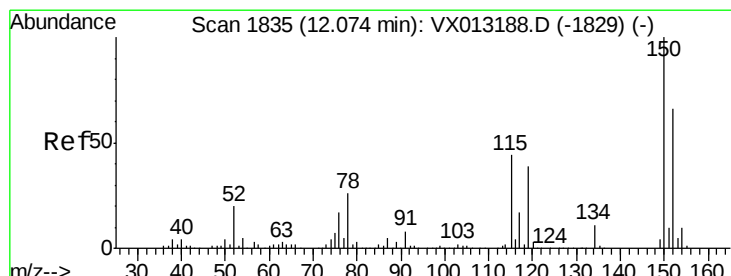
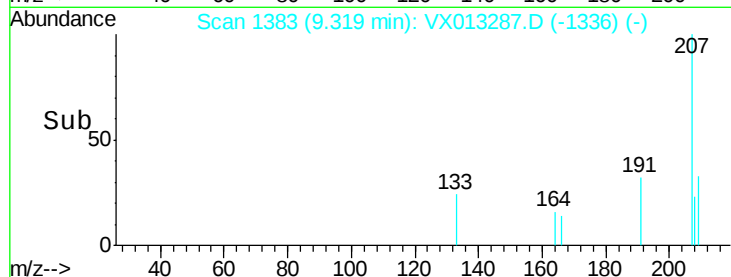
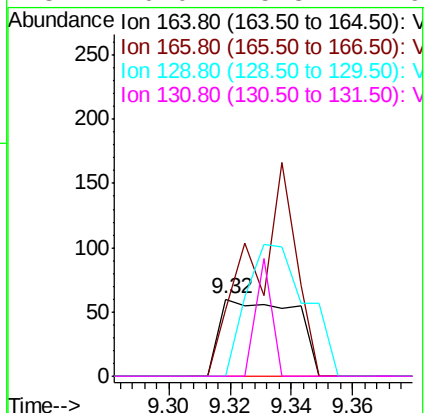
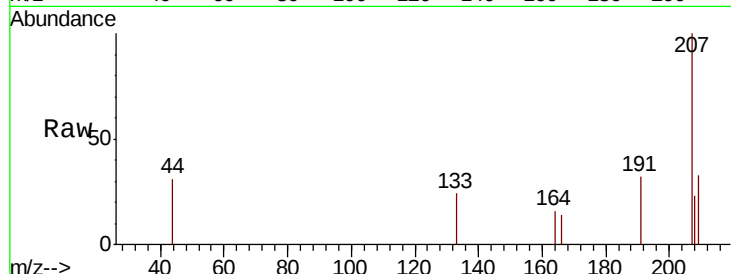
Time-->



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.32 min Scan# 1383
Delta R.T. -0.01 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

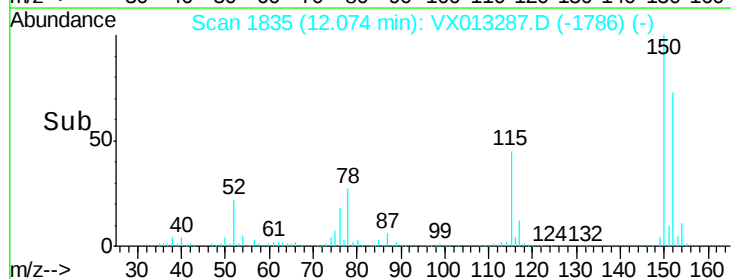
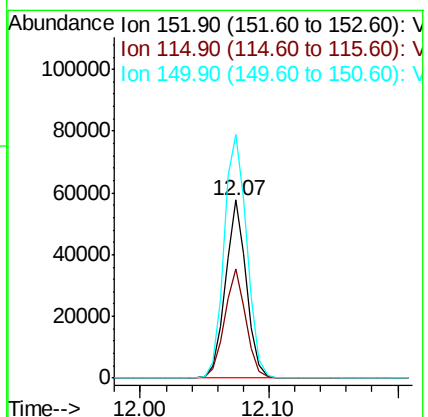
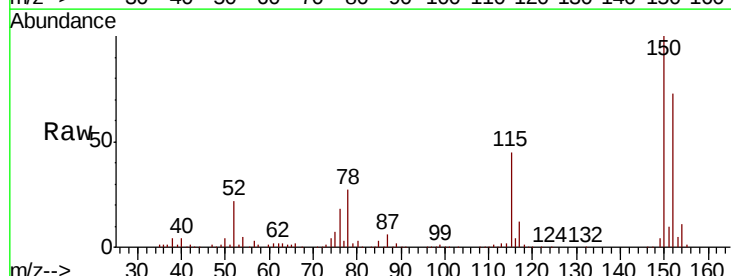
Instrument :
MSVOA_X
ClientSampled :

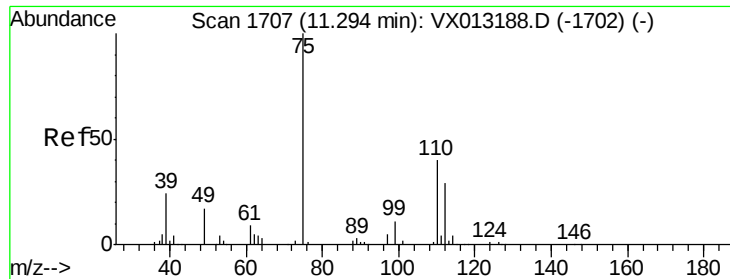
Tot Ion	Ratio	Lower	Upper
164	100		
166	86.7	102.2	153.4#
129	0.0	79.8	119.8#
131	0.0	75.3	112.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013287.D
Acq: 30 Oct 2019 15:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.3	46.6	139.8
150	148.9	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 24.963 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

Instrument :

MSVOA_X

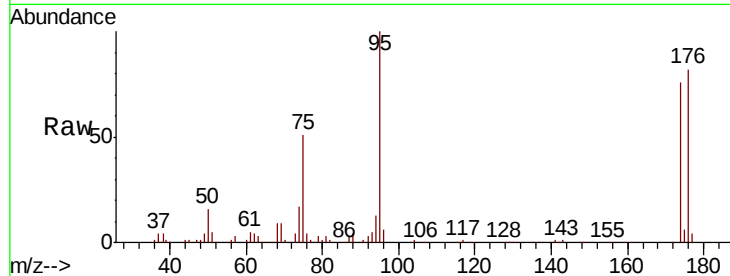
ClientSampleId :

Tot Ion: 75 Resp: 39666

Ion Ratio Lower Upper

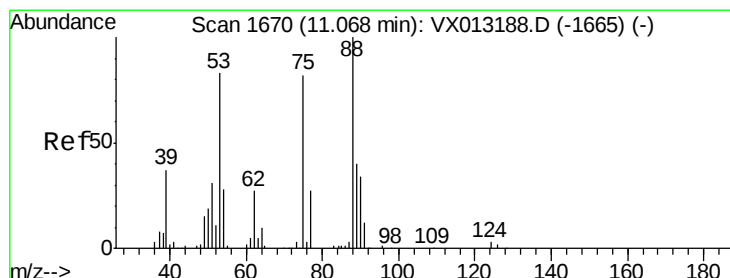
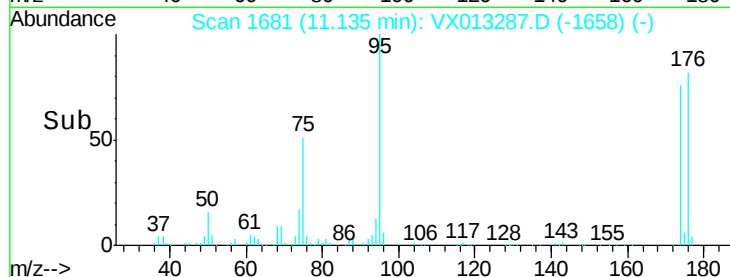
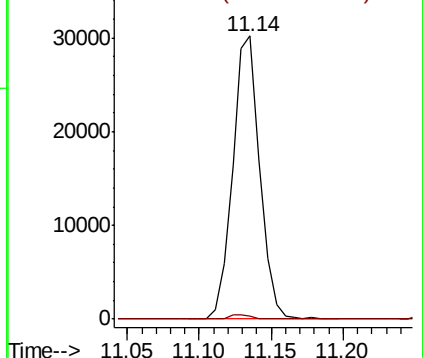
75 100

77 1.1 19.1 57.5#



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: 68.596 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013287.D

Acq: 30 Oct 2019 15:59

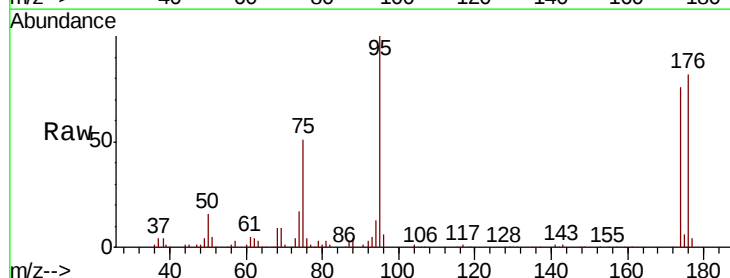
Tgt Ion: 75 Resp: 39666

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 37.3 55.9#



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

