

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091019\
 Data File : VX012259.D
 Acq On : 10 Sep 2019 16:55
 Operator : SY/SP
 Sample : K4624-05
 Misc : 5.21g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PAR-11-E4-(4)

Quant Time: Sep 11 01:36:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 12:55:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	167519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	296507	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266020	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	118566	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	118374	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
35) Dibromofluoromethane	5.48	113	90345	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
50) Toluene-d8	8.71	98	356326	53.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.90%	
62) 4-Bromofluorobenzene	11.14	95	143888	46.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.12%	

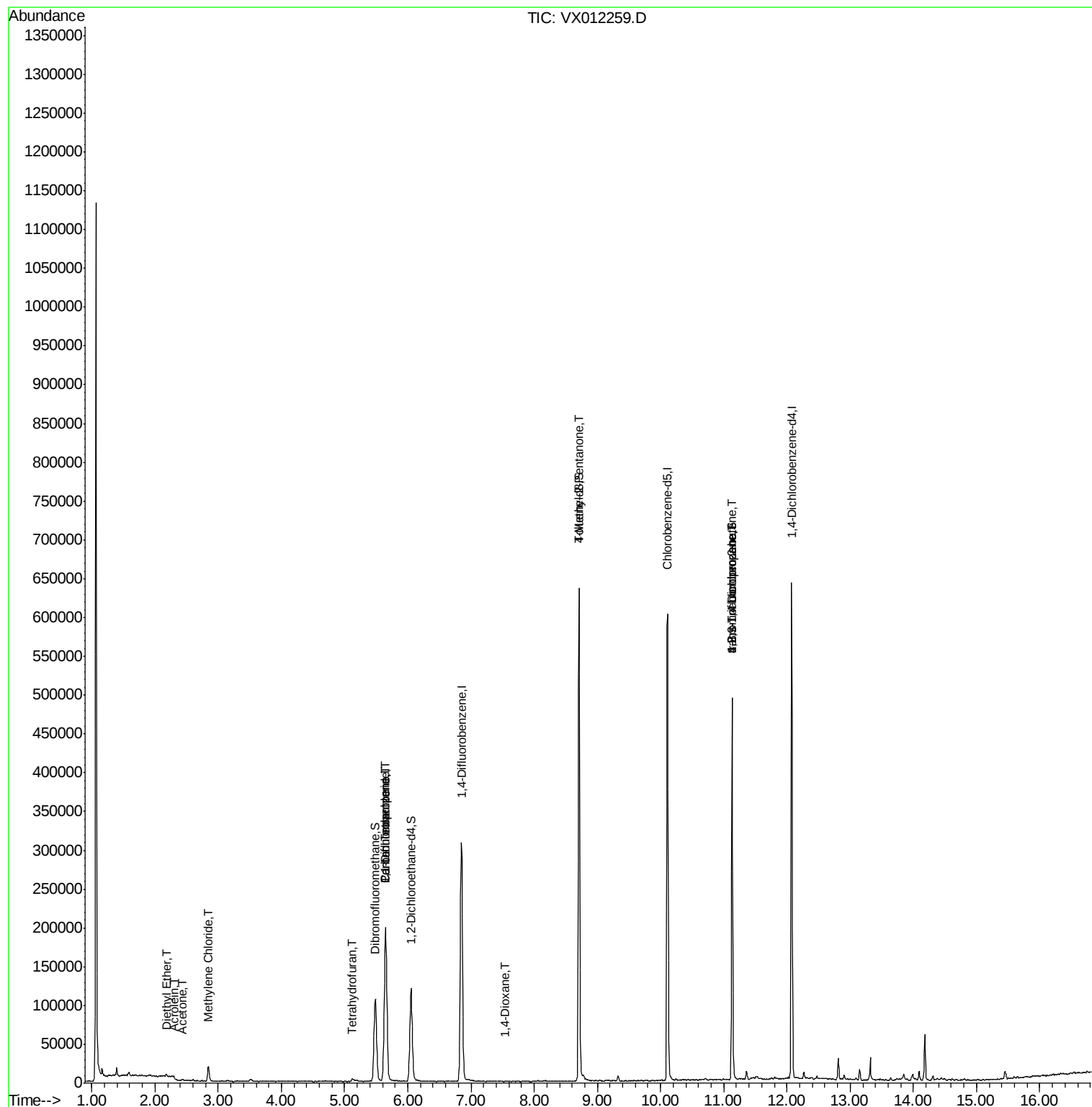
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	287	Below Cal		94
8) Diethyl Ether	2.18	74	1111	1.470	ug/l	71
11) Tert butyl alcohol	3.03	59	342	Below Cal	#	37
13) Acrolein	2.30	56	505	4.079	ug/l	86
16) Acetone	2.43	43	1909	3.405	ug/l	99
20) Methylene Chloride	2.84	84	7830	1.944	ug/l	98
29) Tetrahydrofuran	5.12	42	1346	3.481	ug/l	# 62
36) 1,1-Dichloropropene	5.65	75	15882	7.346	ug/l	# 52
38) Carbon Tetrachloride	5.65	117	19773	7.795	ug/l	# 14
49) 1,4-Dioxane	7.53	88	27	1.484	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.71	43	2110	1.419	ug/l	# 1
76) 1,2,3-Trichloropropane	11.13	75	74466	48.889	ug/l	# 38
81) trans-1,4-Dichloro-2-buten	11.13	75	74466	146.483	ug/l	# 5

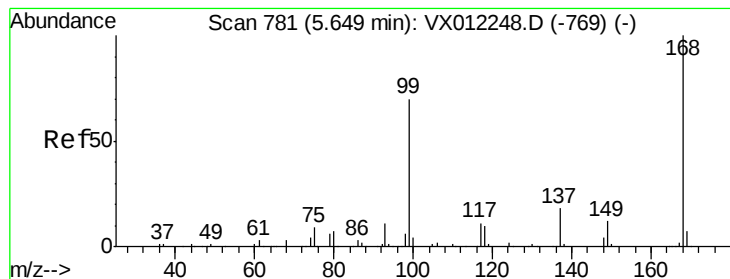
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX091019\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

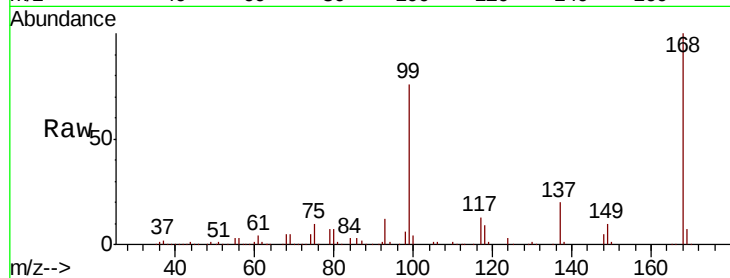
PAR-11-E4-(4)

Tgt Ion: 168 Resp: 167519

Ion Ratio Lower Upper

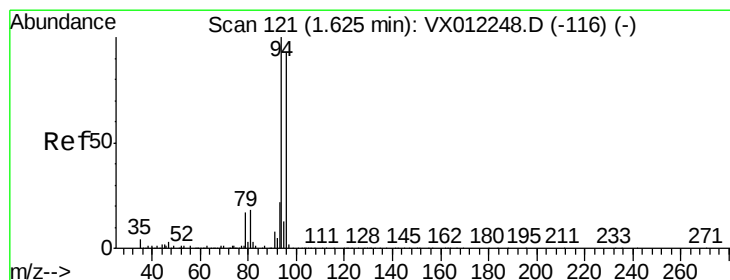
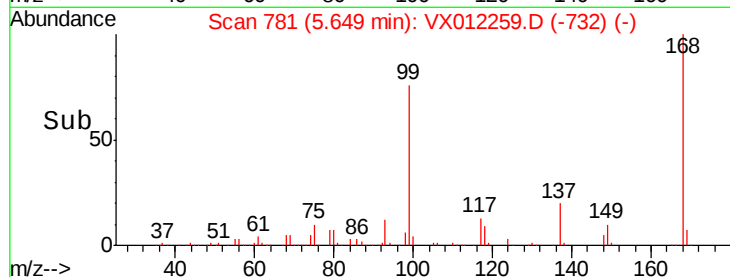
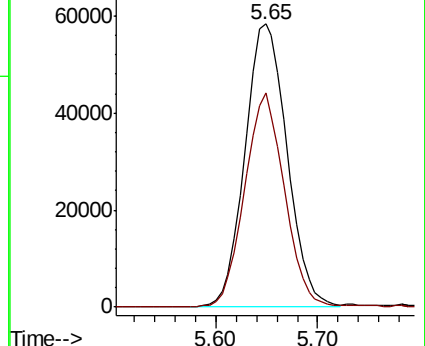
168 100

99 75.3 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012259.D

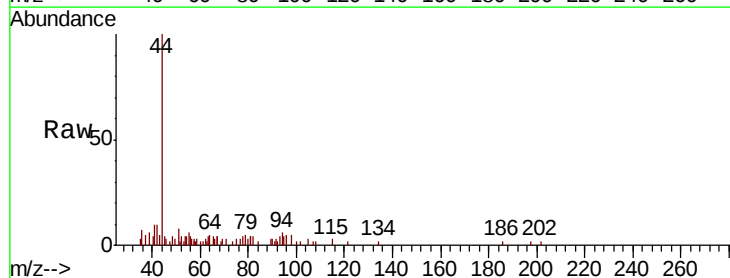
Acq: 10 Sep 2019 16:55

Tgt Ion: 94 Resp: 287

Ion Ratio Lower Upper

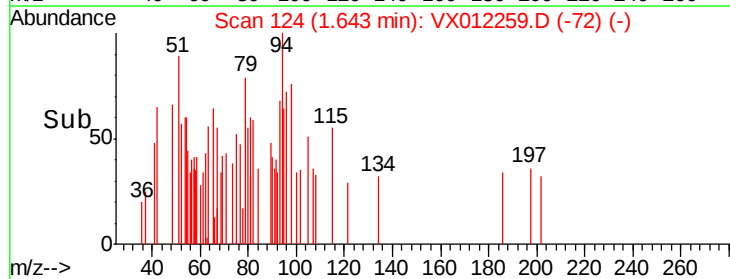
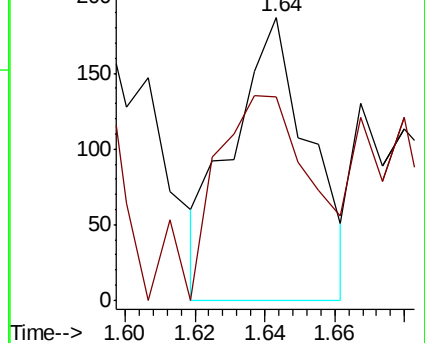
94 100

96 98.5 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

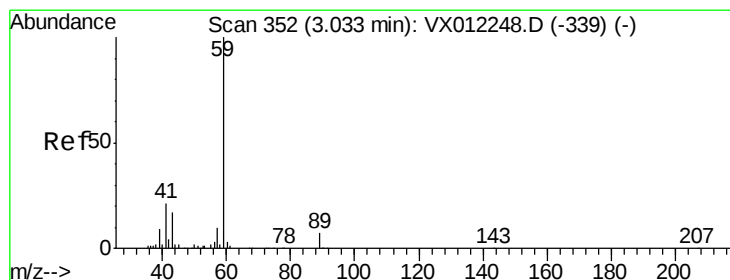
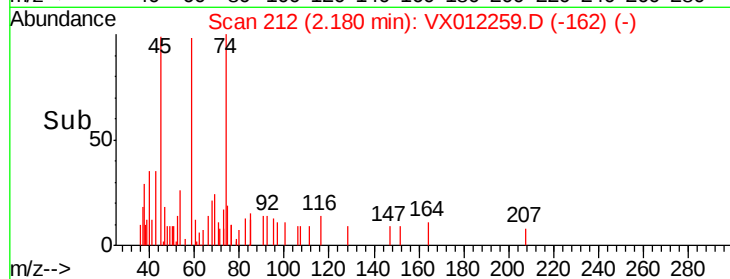
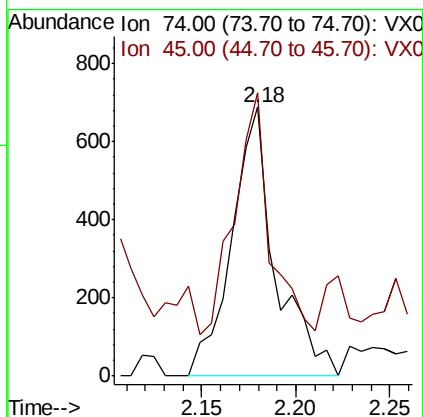
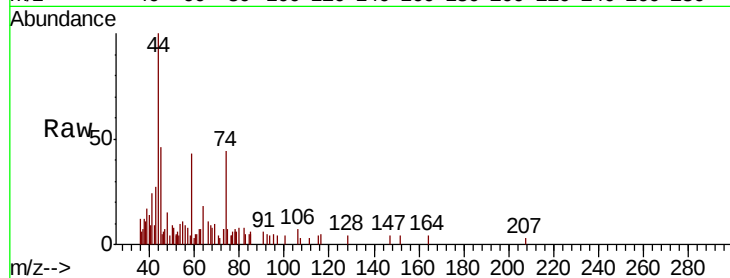




#8
Diethyl Ether
Concen: 1.470 ug/l
RT: 2.18 min Scan# 212
Delta R.T. 0.01 min
Lab File: VX012259.D
Acq: 10 Sep 2019 16:55

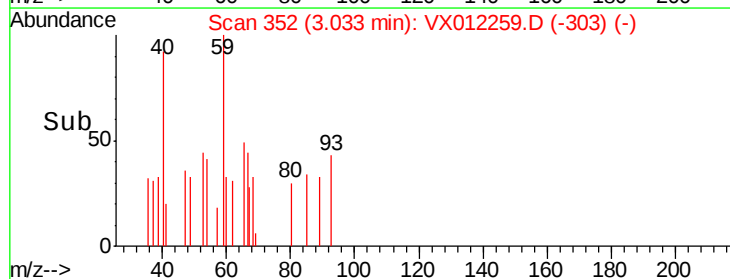
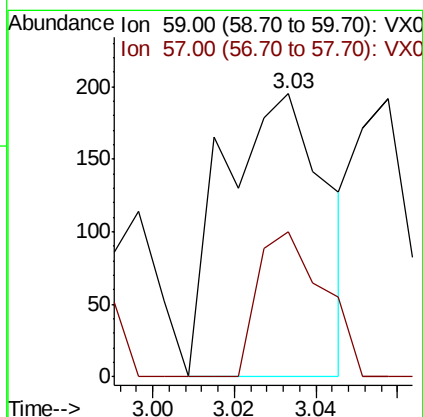
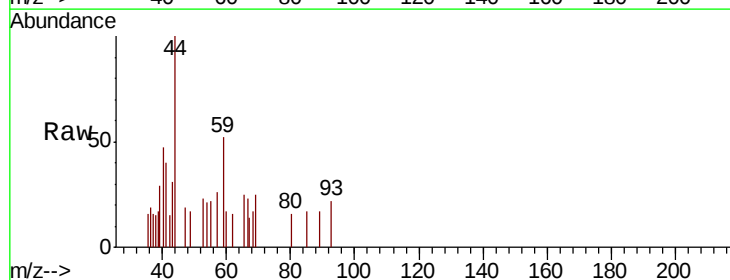
Instrument :
MSVOA_X
ClientSampleId :
PAR-11-E4-(4)

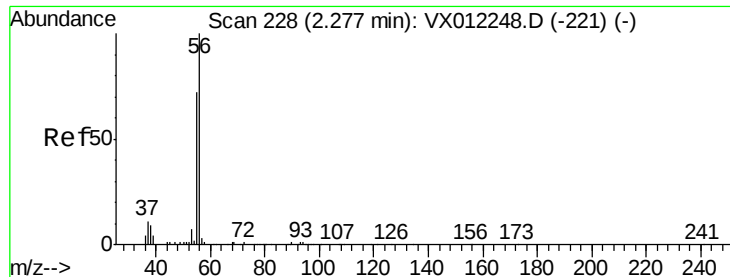
Tgt Ion: 74 Resp: 1111
Ion Ratio Lower Upper
74 100
45 73.0 51.3 153.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 352
Delta R.T. 0.00 min
Lab File: VX012259.D
Acq: 10 Sep 2019 16:55

Tgt Ion: 59 Resp: 342
Ion Ratio Lower Upper
59 100
57 33.0 7.8 11.6#





#13

Acrolein

Concen: 4.079 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

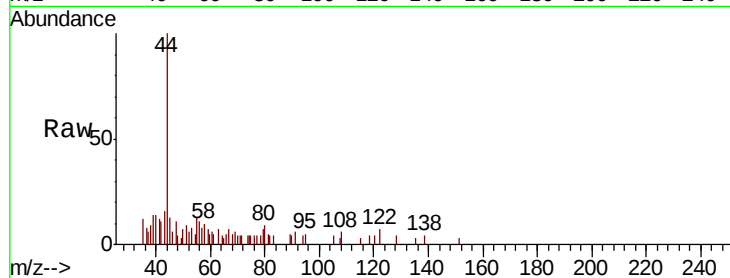
PAR-11-E4-(4)

Tgt Ion: 56 Resp: 505

Ion Ratio Lower Upper

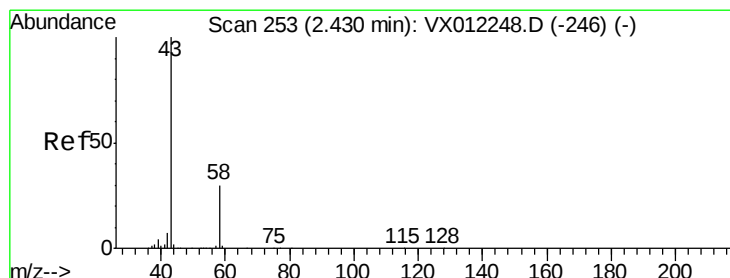
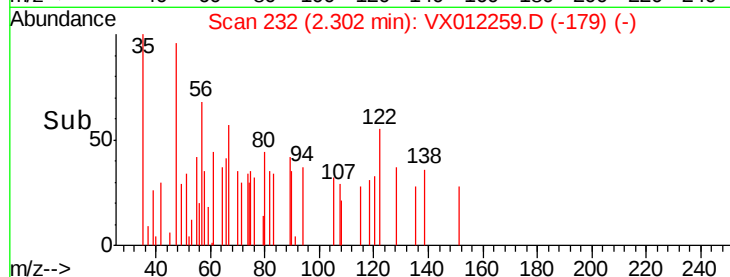
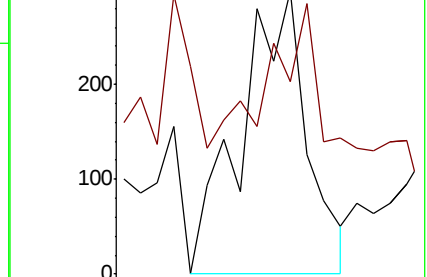
56 100

55 86.3 59.8 89.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.405 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX012259.D

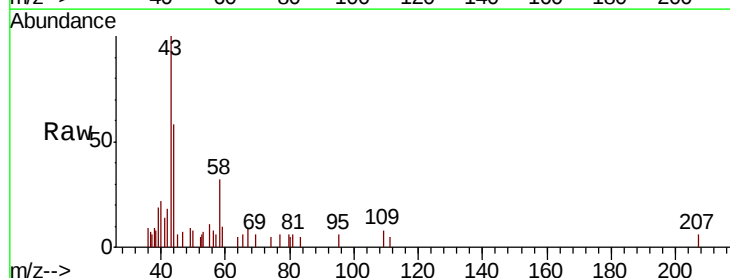
Acq: 10 Sep 2019 16:55

Tgt Ion: 43 Resp: 1909

Ion Ratio Lower Upper

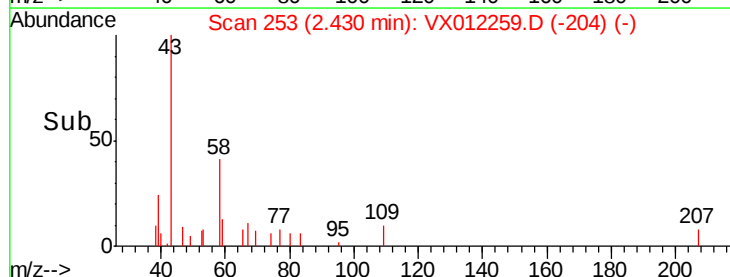
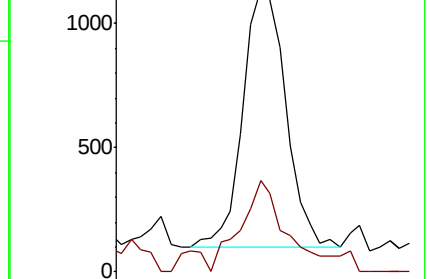
43 100

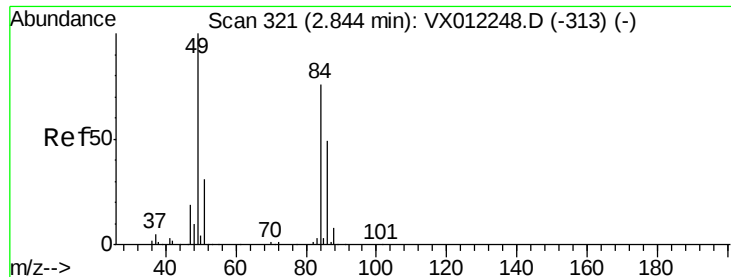
58 28.9 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

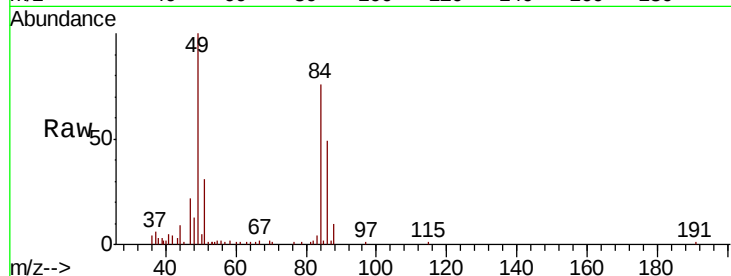




#20
Methylene Chloride
Concen: 1.944 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012259.D
Acq: 10 Sep 2019 16:55

Instrument :
MSVOA_X
ClientSampleId :
PAR-11-E4-(4)

Tgt Ion:	84	Resp:	7830
Ion	Ratio	Lower	Upper
84	100		
49	129.5	105.0	157.6
51	38.9	32.6	48.8
86	63.9	51.8	77.6



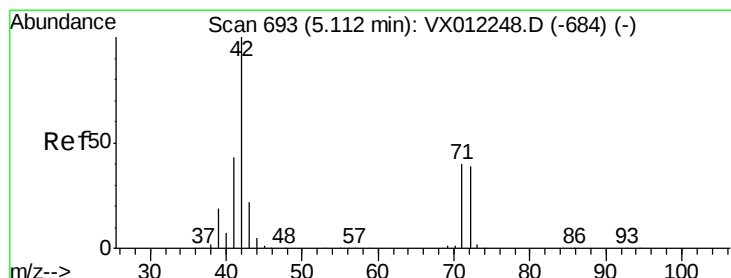
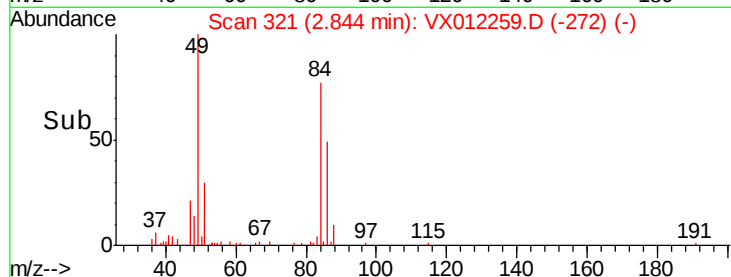
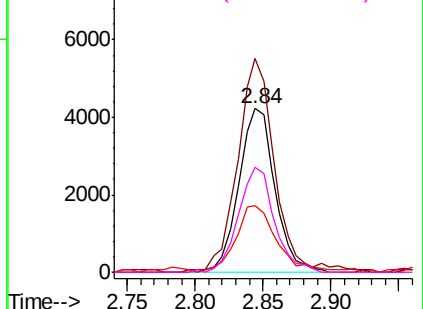
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

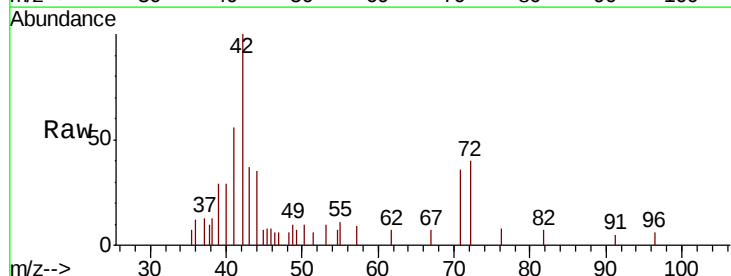
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#29
Tetrahydrofuran
Concen: 3.481 ug/l
RT: 5.12 min Scan# 694
Delta R.T. 0.01 min
Lab File: VX012259.D
Acq: 10 Sep 2019 16:55

Tgt Ion:	42	Resp:	1346
Ion	Ratio	Lower	Upper
42	100		
72	36.2	35.2	52.8
71	0.0	32.5	48.7#

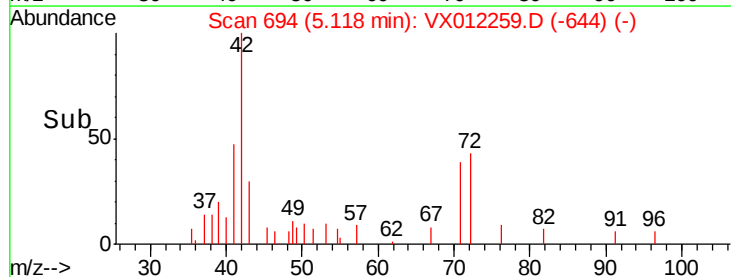
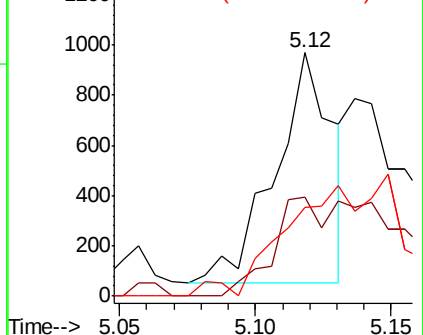


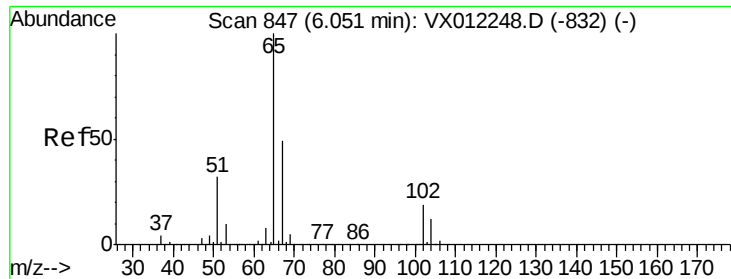
Abundance

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

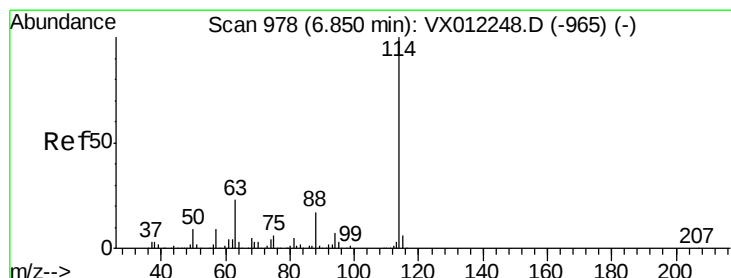
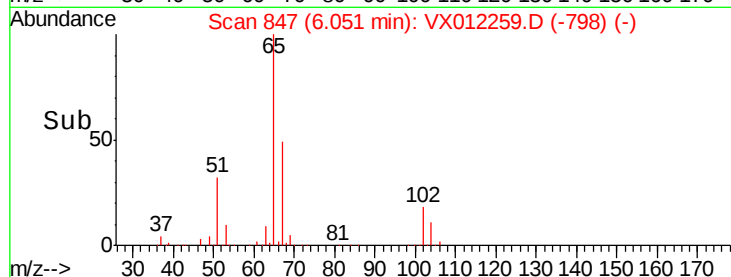
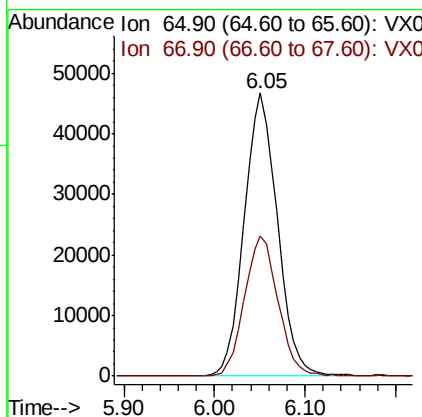
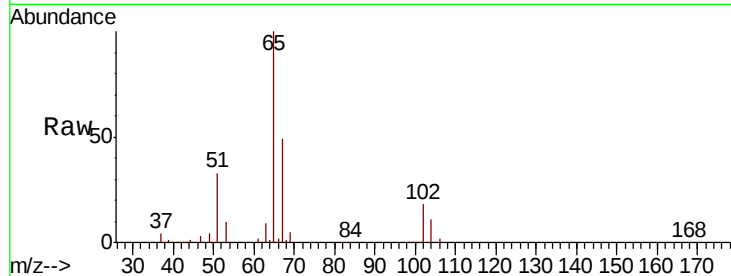




#33
 1,2-Dichloroethane-d4
 Concen: 49.981 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012259.D
 Acq: 10 Sep 2019 16:55

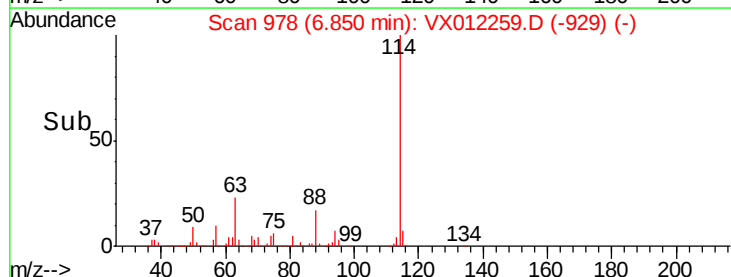
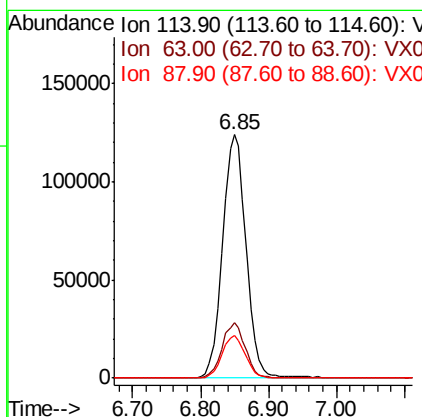
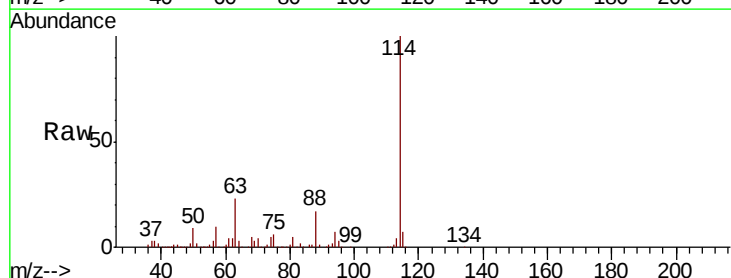
Instrument :
 MSVOA_X
 ClientSampleId :
 PAR-11-E4-(4)

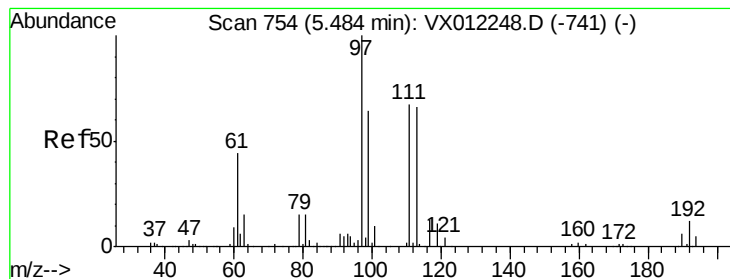
Tgt Ion: 65 Resp: 118374
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012259.D
 Acq: 10 Sep 2019 16:55

Tgt Ion: 114 Resp: 296507
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.2
 88 17.4 0.0 34.8





#35

Dibromofluoromethane

Concen: 47.531 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

PAR-11-E4-(4)

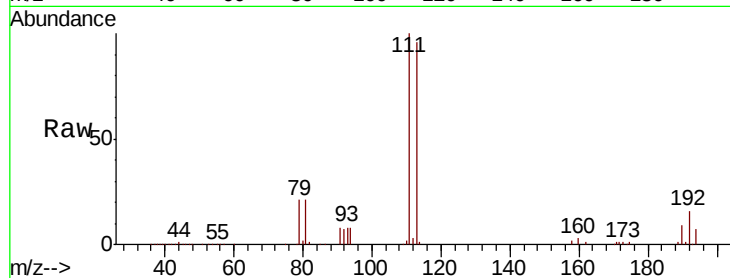
Tgt Ion:113 Resp: 90345

Ion Ratio Lower Upper

113 100

111 103.0 83.0 124.6

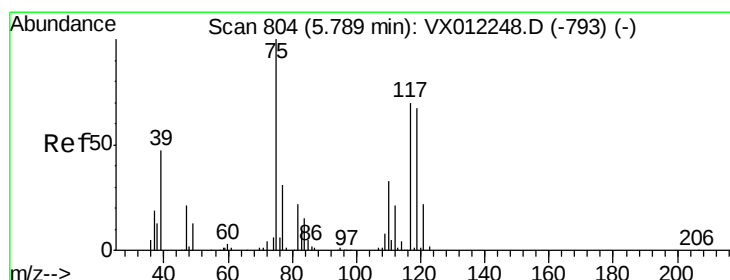
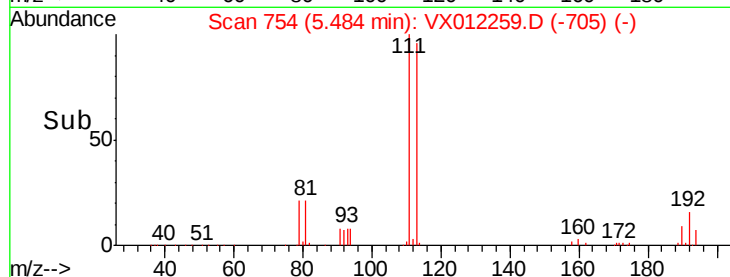
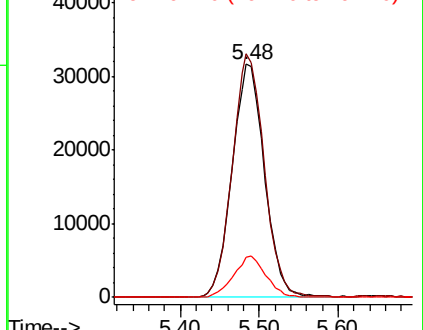
192 17.6 14.3 21.5



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: 7.346 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

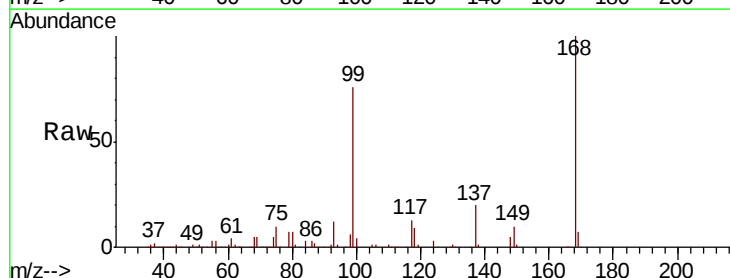
Tgt Ion: 75 Resp: 15882

Ion Ratio Lower Upper

75 100

110 10.2 16.8 50.4#

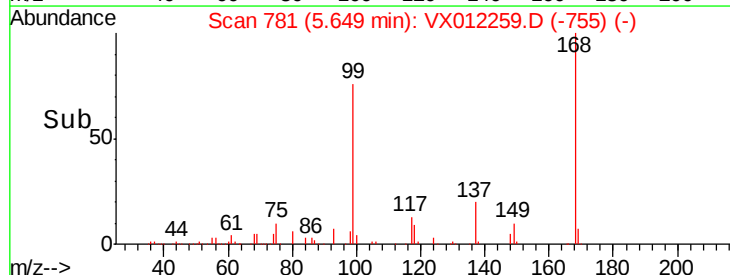
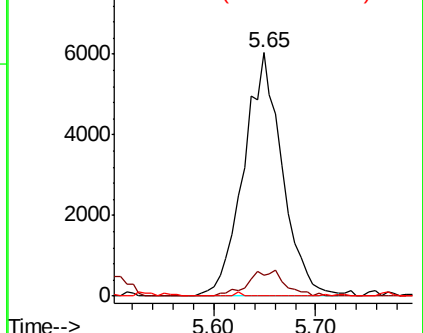
77 0.0 24.5 36.7#

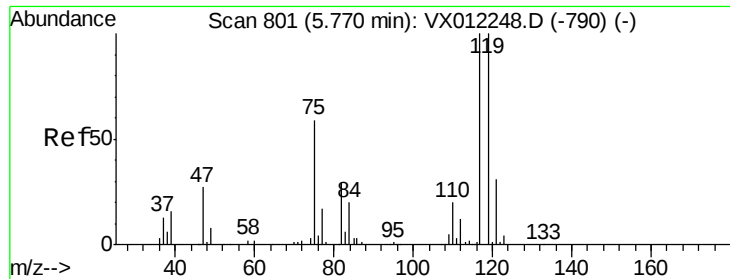


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.795 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

PAR-11-E4-(4)

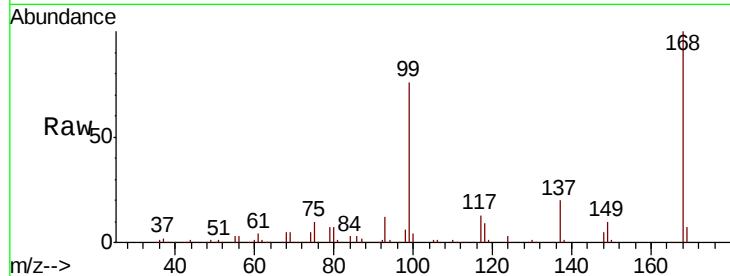
Tgt Ion:117 Resp: 19773

Ion Ratio Lower Upper

117 100

119 4.7 79.6 119.4#

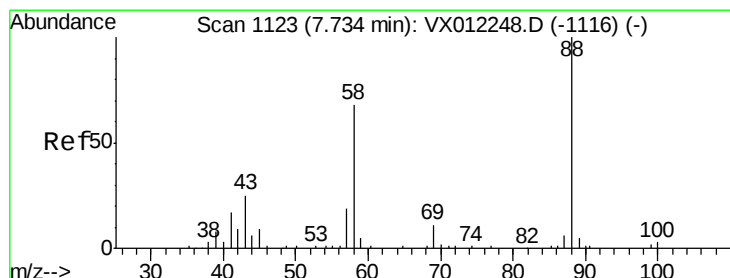
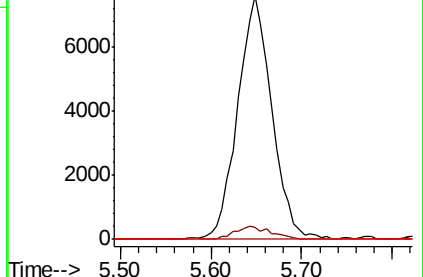
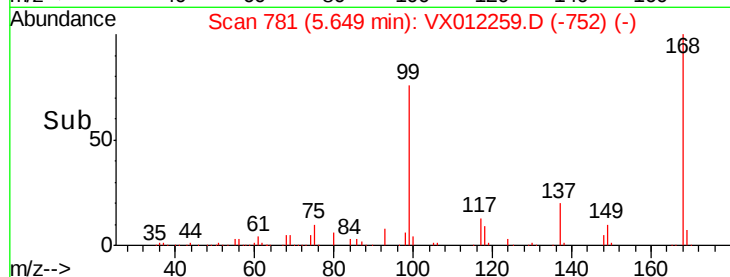
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.484 ug/l

RT: 7.53 min Scan# 1090

Delta R.T. -0.20 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

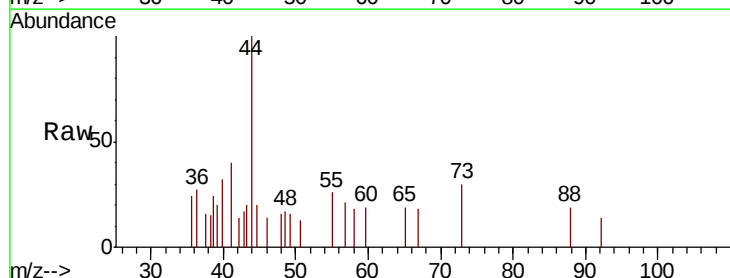
Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 666.7 31.0 46.4#

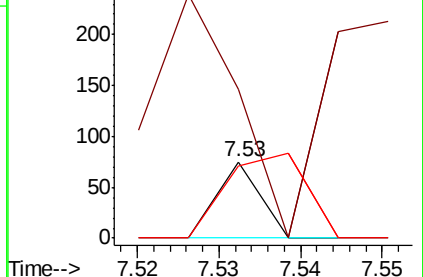
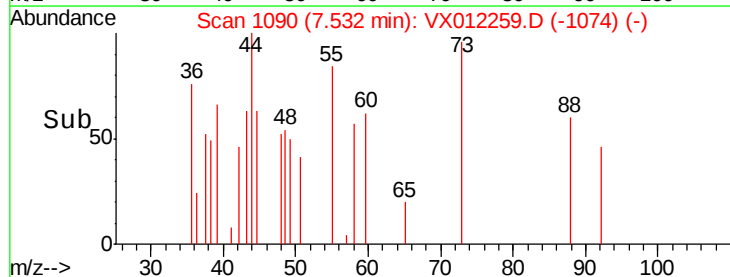
58 207.4 61.5 92.3#

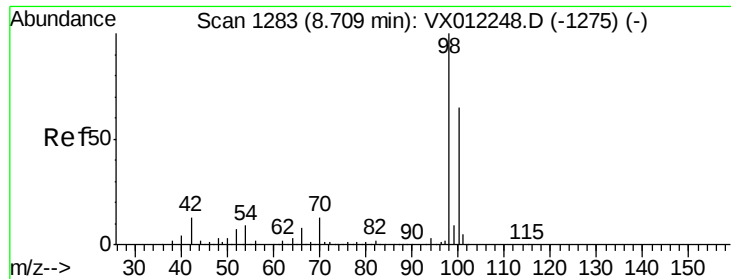


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 53.450 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

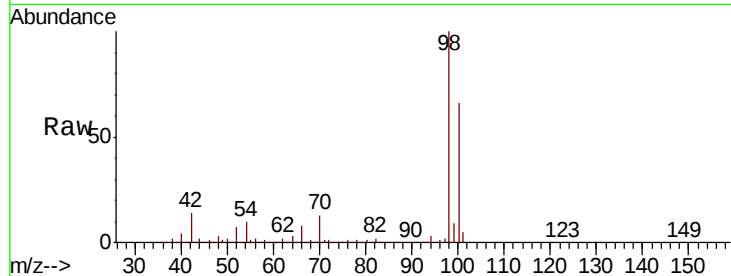
PAR-11-E4-(4)

Tgt Ion: 98 Resp: 356326

Ion Ratio Lower Upper

98 100

100 66.5 54.1 81.1



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

150000

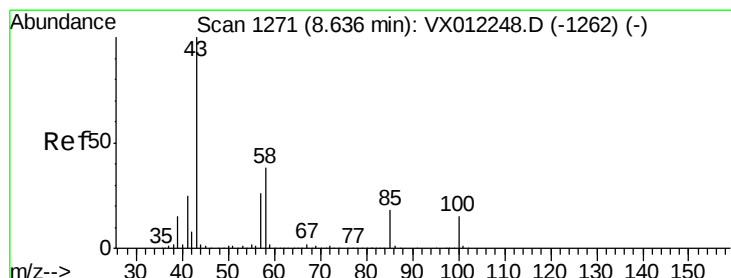
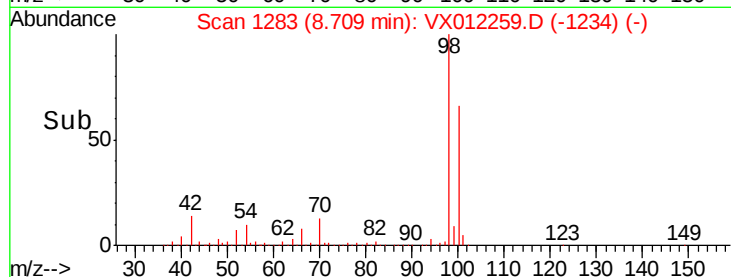
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 1.419 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012259.D

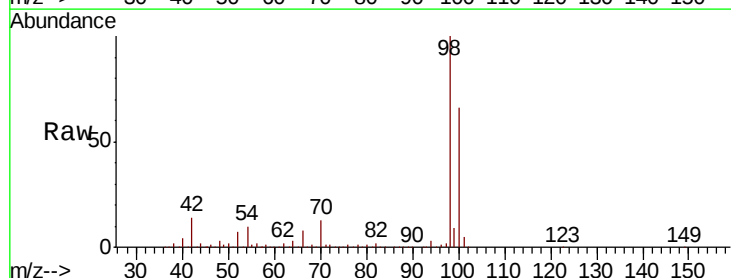
Acq: 10 Sep 2019 16:55

Tgt Ion: 43 Resp: 2110

Ion Ratio Lower Upper

43 100

58 156.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.71

2000

1500

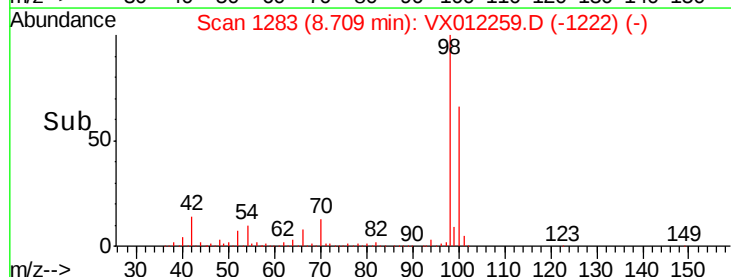
1000

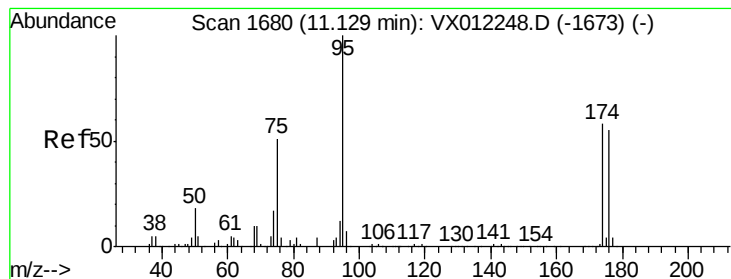
500

0

Time-->

8.65 8.70 8.75





#62

4-Bromofluorobenzene

Concen: 46.556 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

PAR-11-E4-(4)

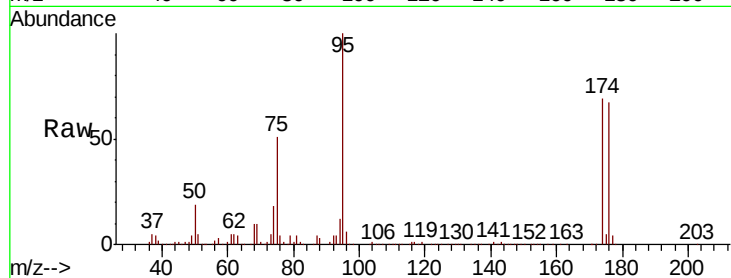
Tgt Ion: 95 Resp: 143888

Ion Ratio Lower Upper

95 100

174 65.1 0.0 127.0

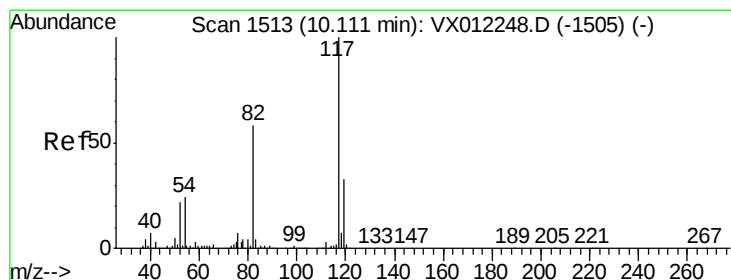
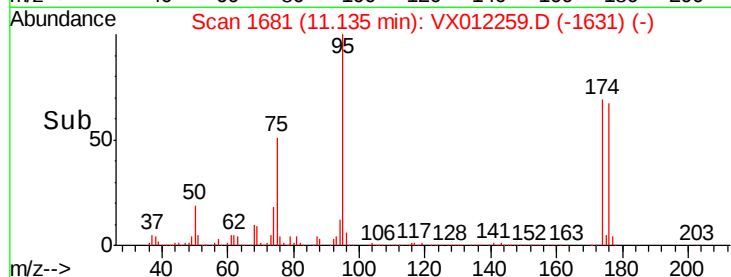
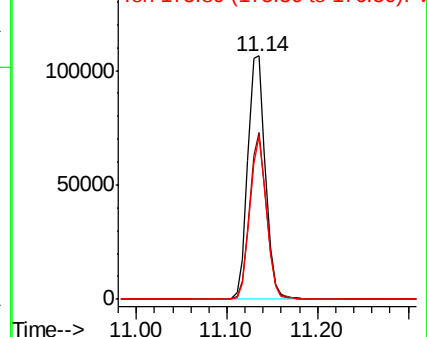
176 63.0 0.0 125.8



Abundance Ion 94.90 (94.60 to 95.60): VX012248.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX012248.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX012248.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

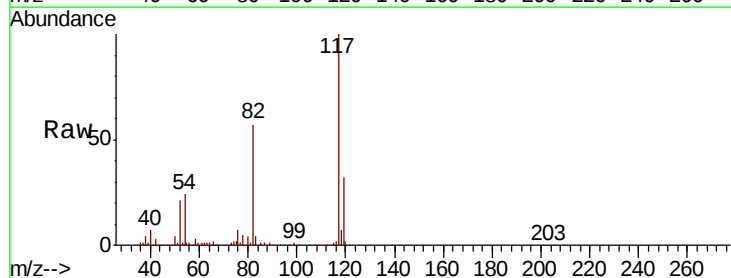
Tgt Ion: 117 Resp: 266020

Ion Ratio Lower Upper

117 100

82 57.3 46.4 69.6

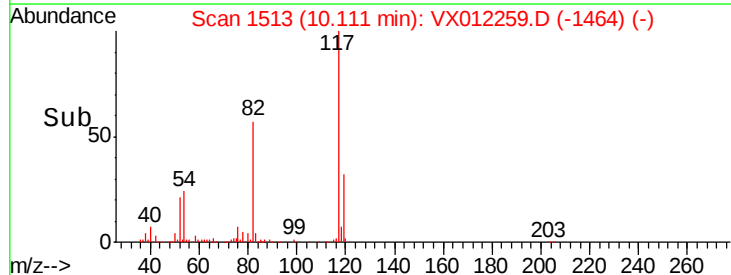
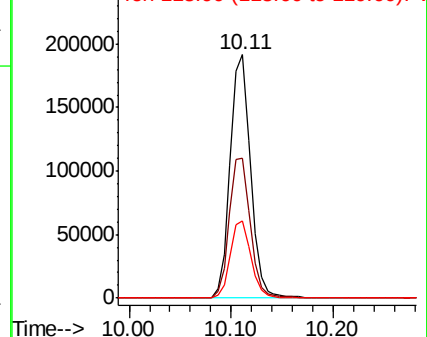
119 32.0 26.6 39.8

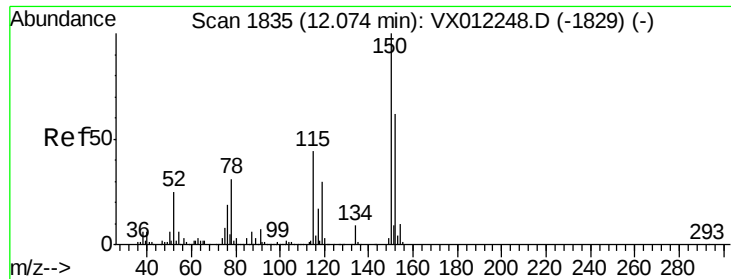


Abundance Ion 116.90 (116.60 to 117.60): VX012248.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012248.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012248.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

PAR-11-E4-(4)

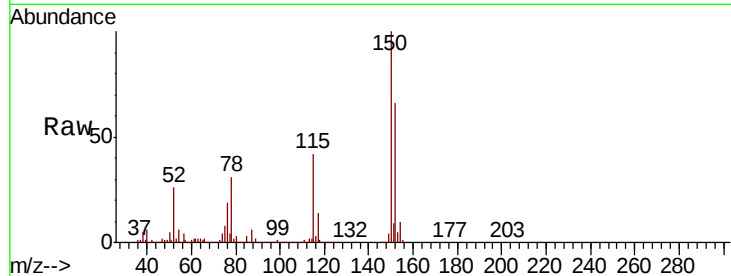
Tgt Ion: 152 Resp: 118566

Ion Ratio Lower Upper

152 100

115 65.7 45.5 136.4

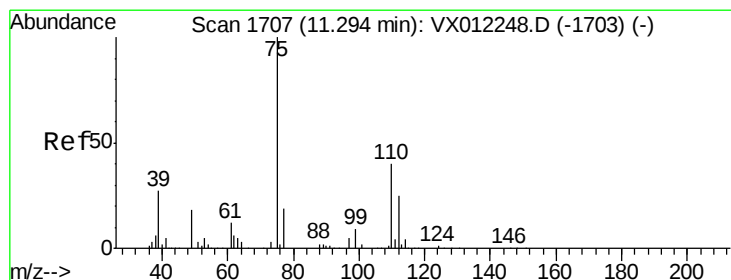
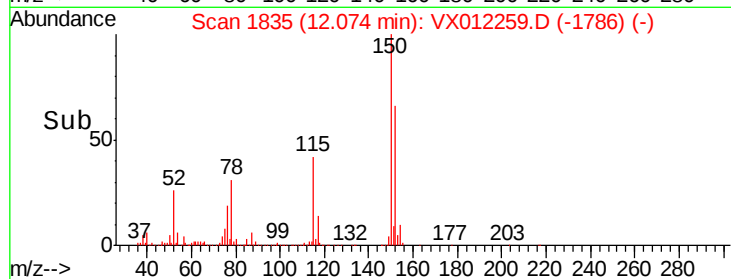
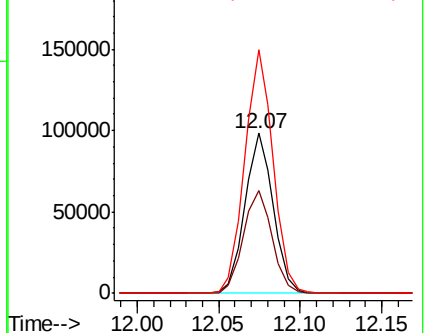
150 153.2 0.0 346.4



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: 48.889 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012259.D

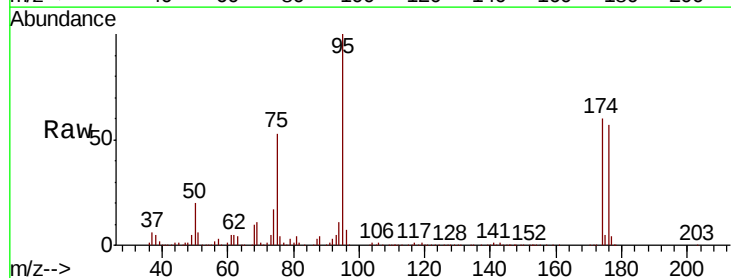
Acq: 10 Sep 2019 16:55

Tgt Ion: 75 Resp: 74466

Ion Ratio Lower Upper

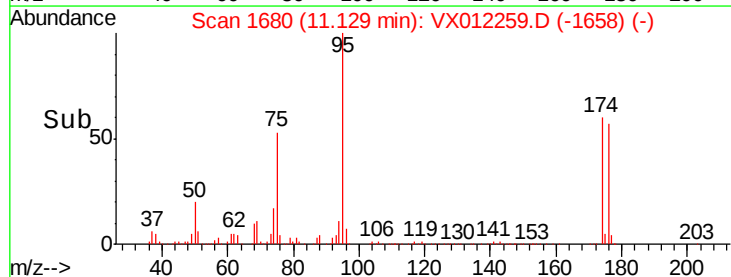
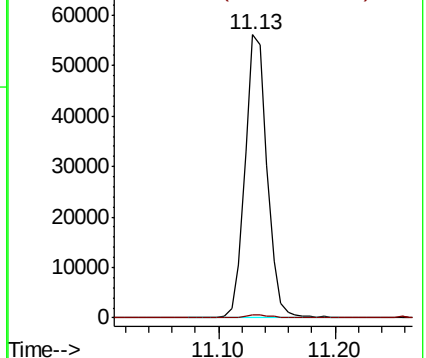
75 100

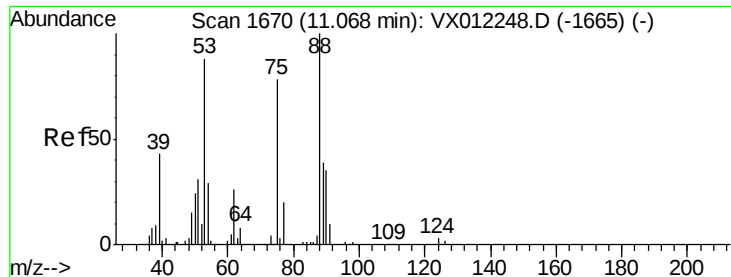
77 1.2 19.7 59.0#



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: 146.483 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012259.D

Acq: 10 Sep 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

PAR-11-E4-(4)

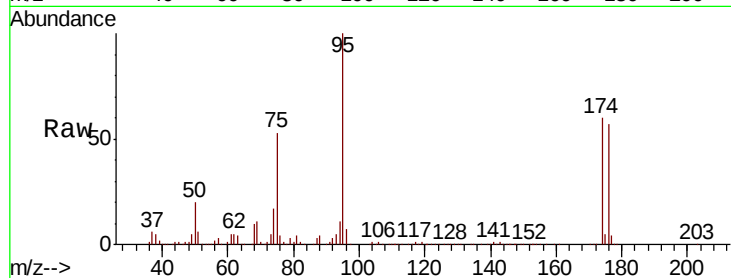
Tgt Ion: 75 Resp: 74466

Ion Ratio Lower Upper

75 100

53 0.3 88.1 132.1#

89 0.0 43.5 65.3#



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

