

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050718\
 Data File : VX001499.D
 Acq On : 08 May 2018 06:52
 Operator : JC/MD
 Sample : J2738-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-TCLP-VAR4-0518

Quant Time: May 08 08:10:09 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	366681	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	322170	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	178698	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	176714	46.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.70%	
35) Dibromofluoromethane	5.51	113	135655	41.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.18%	
50) Toluene-d8	8.72	98	499371	41.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.90%	
62) 4-Bromofluorobenzene	11.14	95	164892	36.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.16%	

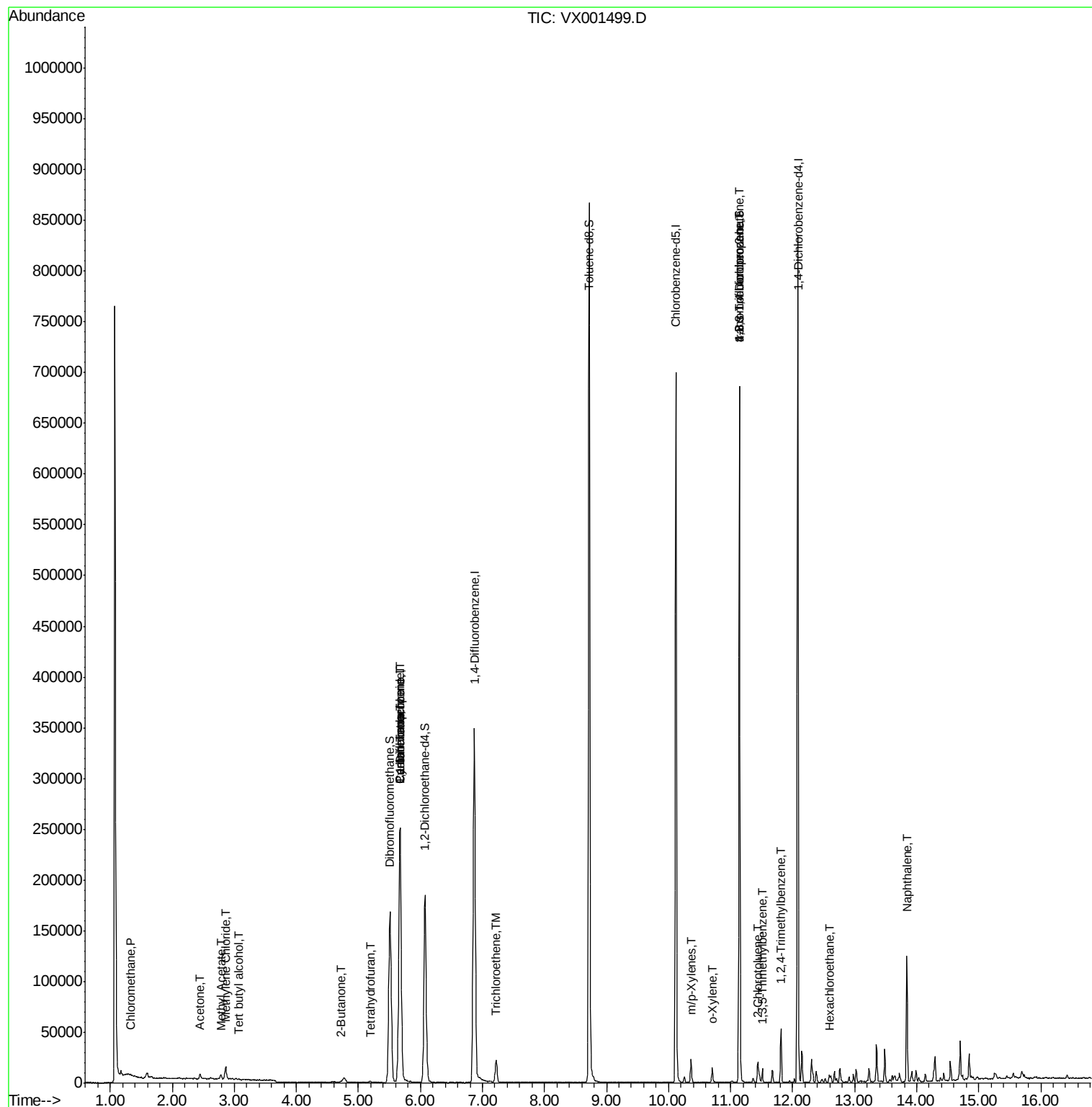
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	729	0.21	ug/l	# 80
5) Bromomethane	1.62	94	20	Below	Cal	# 3
11) Tert butyl alcohol	3.06	59	576	0.72	ug/l	# 94
13) Acrolein	2.29	56	90	Below	Cal	# 54
16) Acetone	2.45	43	5302	3.10	ug/l	96
18) Methyl Acetate	2.78	43	5356	1.19	ug/l	98
20) Methylene Chloride	2.86	84	5577	1.64	ug/l	# 92
25) 2-Butanone	4.71	43	1455	0.59	ug/l	96
29) Tetrahydrofuran	5.19	42	785	0.50	ug/l	# 68
31) Cyclohexane	5.67	56	4548	0.94	ug/l	# 11
36) 1,1-Dichloropropene	5.67	75	16095	3.45	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	23464	4.72	ug/l	# 15
44) Trichloroethene	7.22	130	8730	2.10	ug/l	100
68) m/p-Xylenes	10.36	106	5398	0.88	ug/l	99
69) o-Xylene	10.71	106	3168	0.53	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	82938	22.88	ug/l	# 38
79) 2-Chlorotoluene	11.44	91	1753	0.21	ug/l	# 39
80) 1,3,5-Trimethylbenzene	11.51	105	5275	0.51	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.14	75	82938	70.99	ug/l	# 7
84) 1,2,4-Trimethylbenzene	11.81	105	22657	2.14	ug/l	99
90) Hexachloroethane	12.60	117	357	0.21	ug/l	# 1
95) Naphthalene	13.84	128	74962	5.66	ug/l	100

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

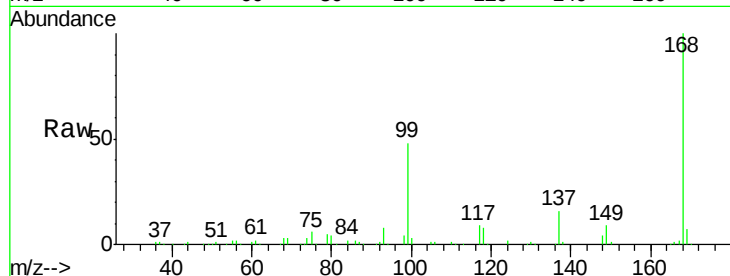
CB-TCLP-VAR4-0518

Tgt Ion:168 Resp: 262429

Ion Ratio Lower Upper

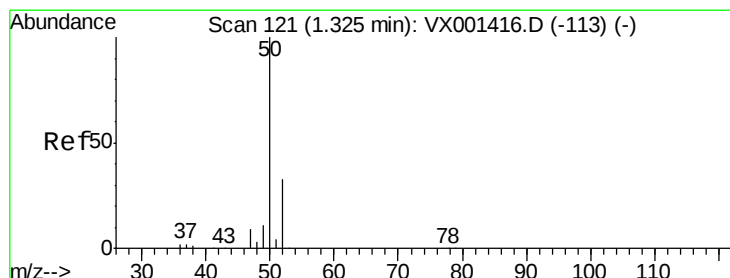
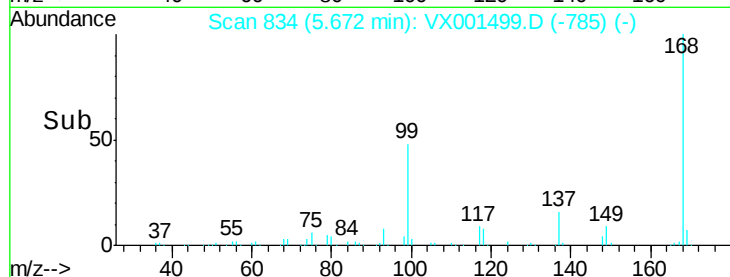
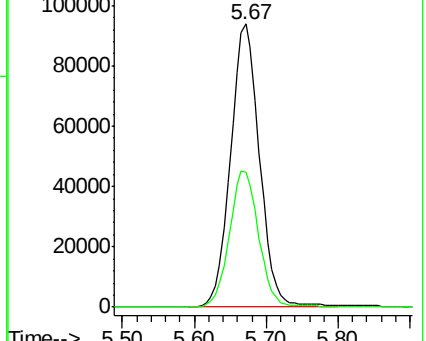
168 100

99 47.8 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001499.D

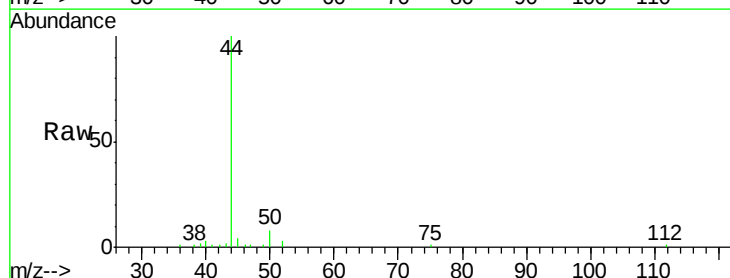
Acq: 08 May 2018 06:52

Tgt Ion: 50 Resp: 729

Ion Ratio Lower Upper

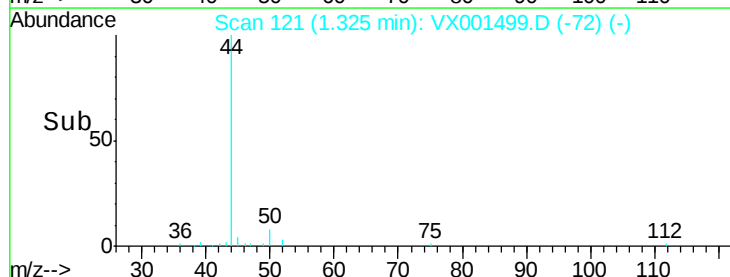
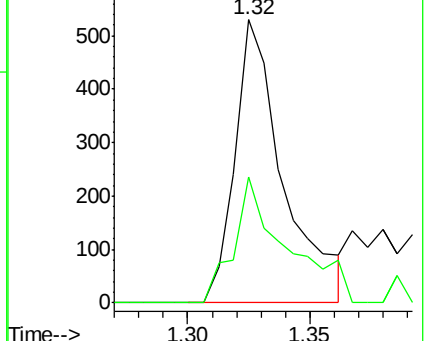
50 100

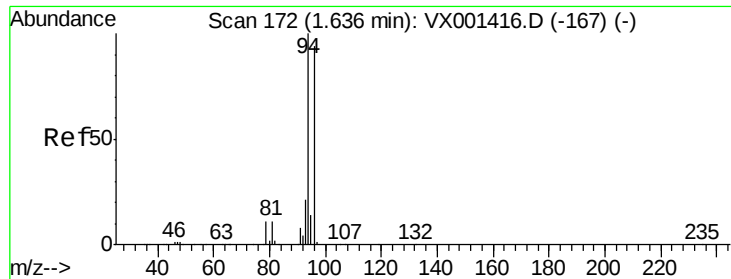
52 44.3 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

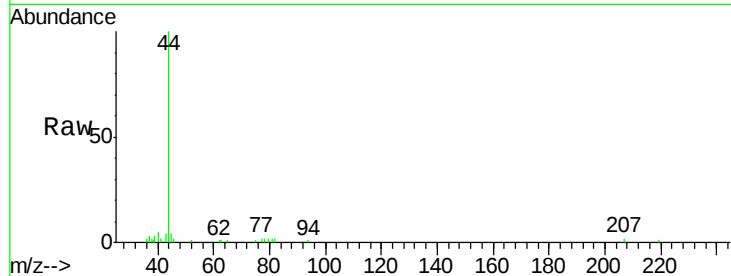
CB-TCLP-VAR4-0518

Tgt Ion: 94 Resp: 20

Ion Ratio Lower Upper

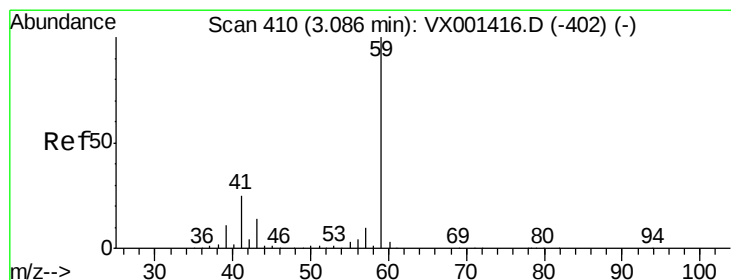
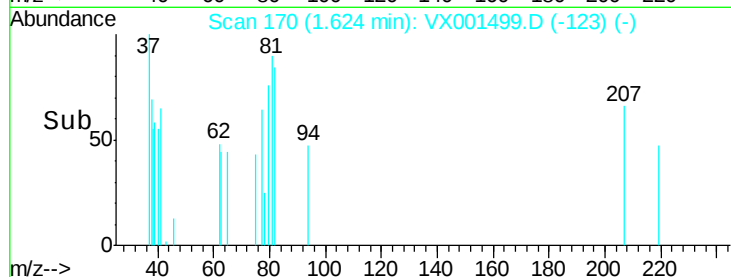
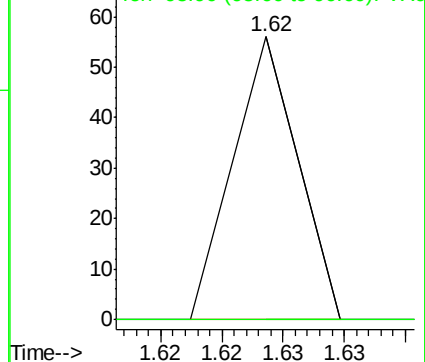
94 100

96 0.0 75.0 112.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.72 ug/l

RT: 3.06 min Scan# 406

Delta R.T. -0.02 min

Lab File: VX001499.D

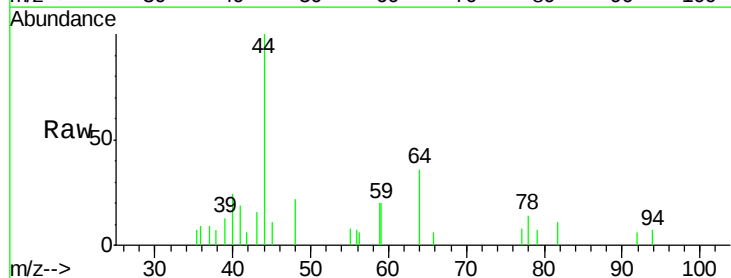
Acq: 08 May 2018 06:52

Tgt Ion: 59 Resp: 576

Ion Ratio Lower Upper

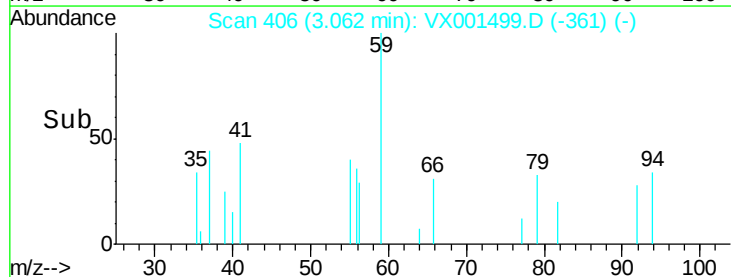
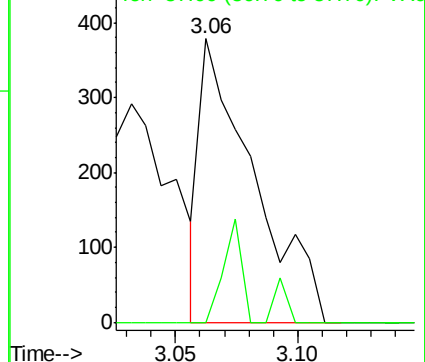
59 100

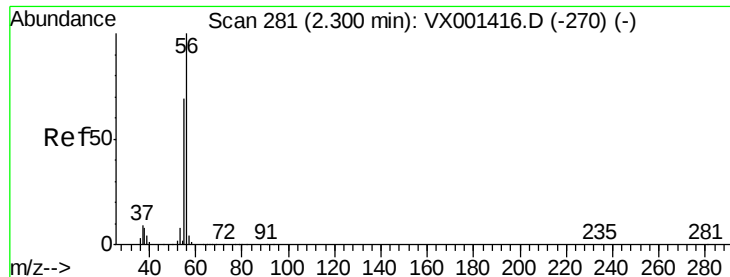
57 12.5 8.2 12.4#



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: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

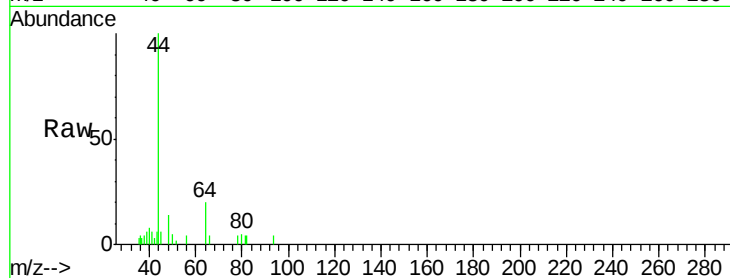
CB-TCLP-VAR4-0518

Tgt Ion: 56 Resp: 90

Ion Ratio Lower Upper

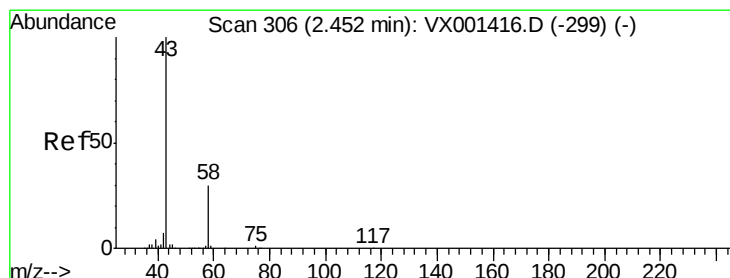
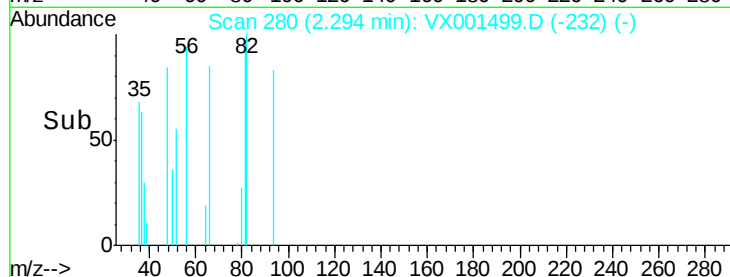
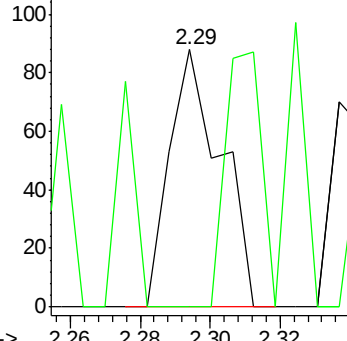
56 100

55 31.1 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.10 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001499.D

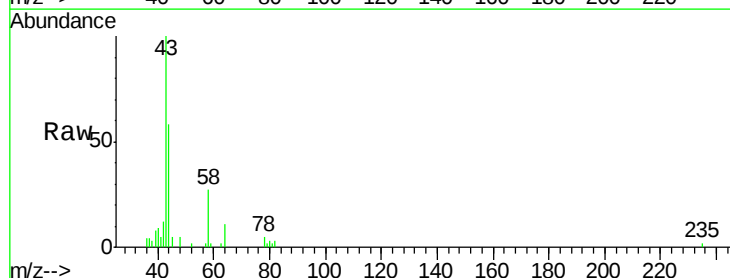
Acq: 08 May 2018 06:52

Tgt Ion: 43 Resp: 5302

Ion Ratio Lower Upper

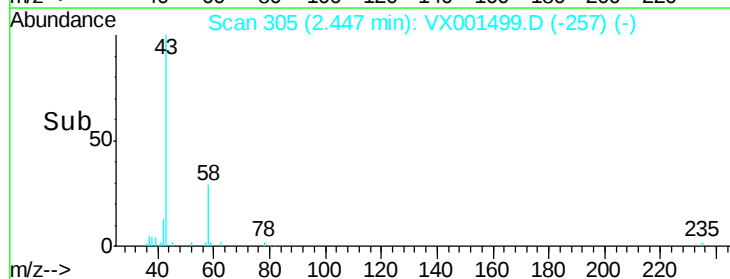
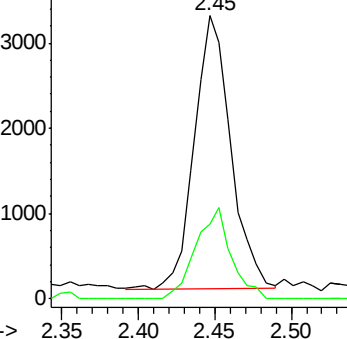
43 100

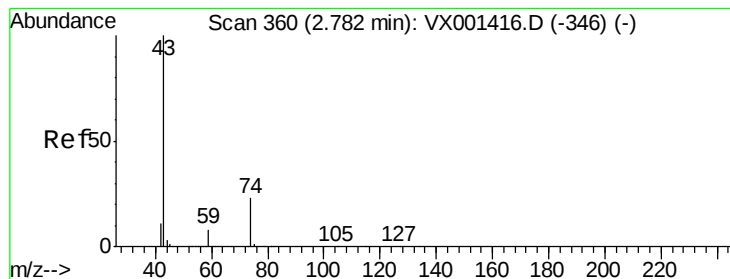
58 27.6 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methyl Acetate

Concen: 1.19 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

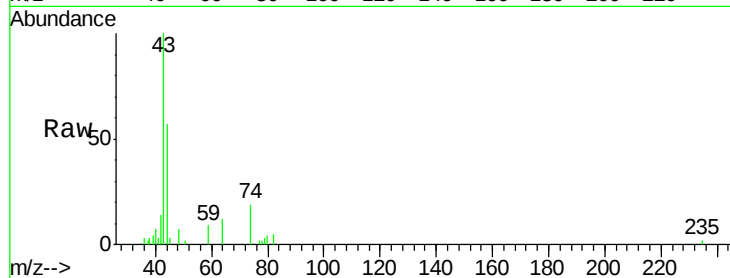
CB-TCLP-VAR4-0518

Tgt Ion: 43 Resp: 5356

Ion Ratio Lower Upper

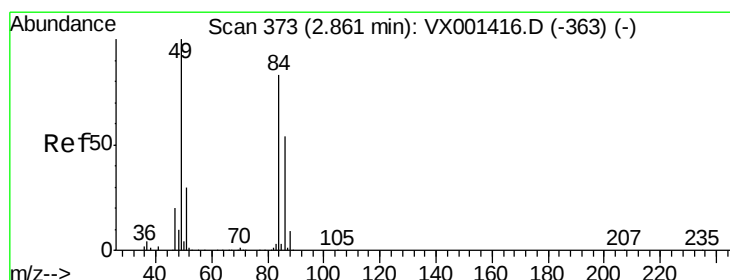
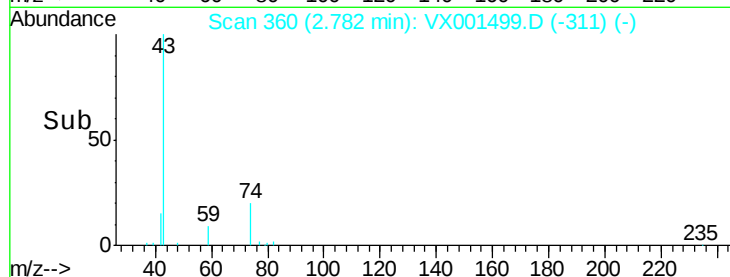
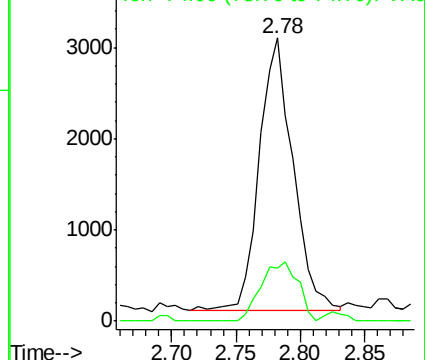
43 100

74 24.2 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 1.64 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Tgt Ion: 84 Resp: 5577

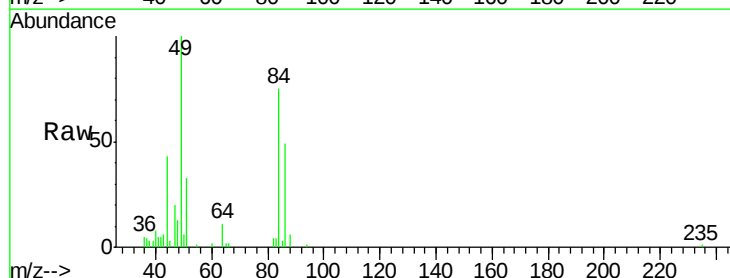
Ion Ratio Lower Upper

84 100

49 133.3 96.6 144.8

51 44.0 29.0 43.4#

86 65.3 52.2 78.4

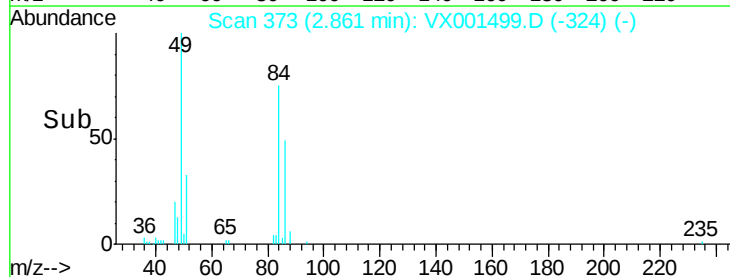
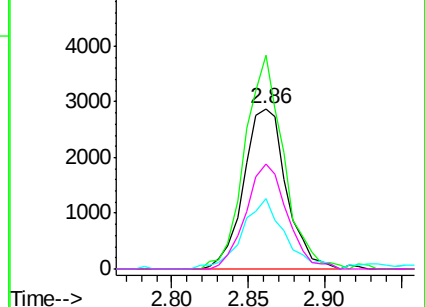


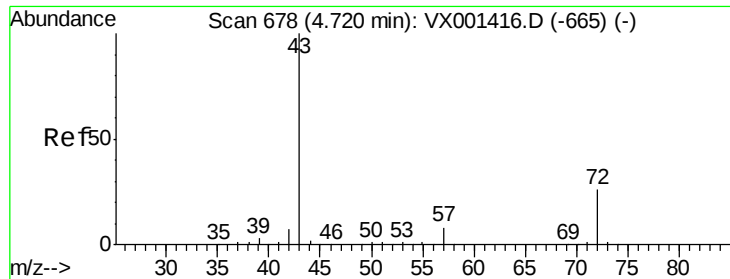
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 0.59 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

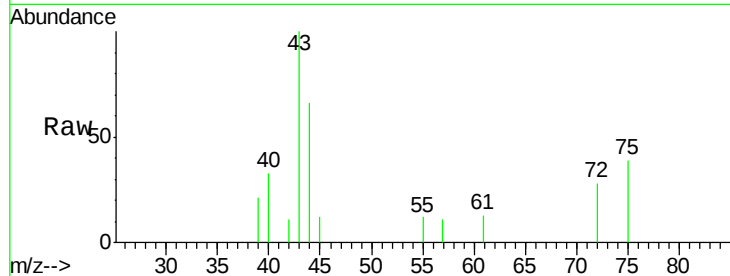
CB-TCLP-VAR4-0518

Tgt Ion: 43 Resp: 1455

Ion Ratio Lower Upper

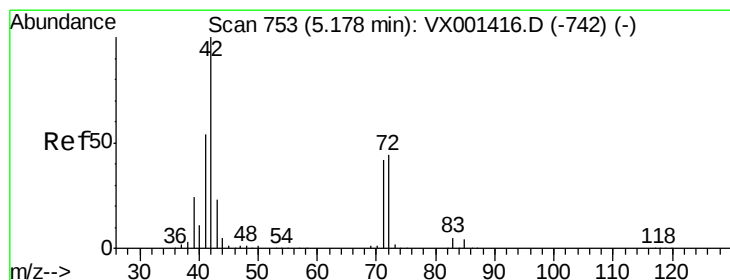
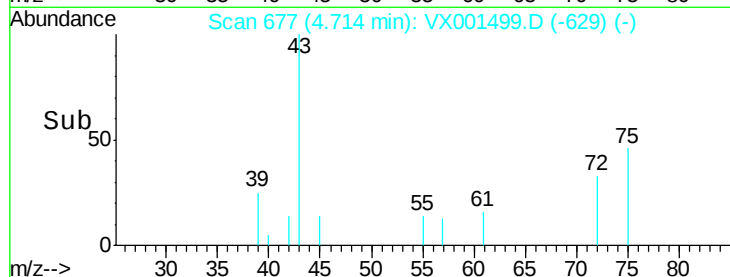
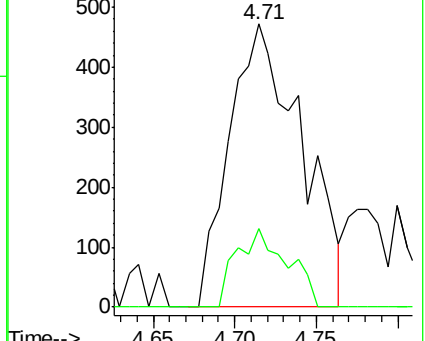
43 100

72 27.8 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

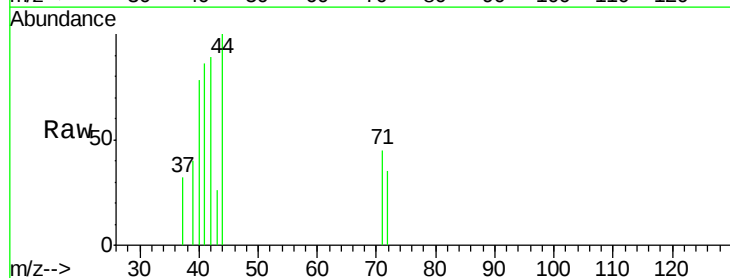
Tgt Ion: 42 Resp: 785

Ion Ratio Lower Upper

42 100

72 21.9 35.4 53.2#

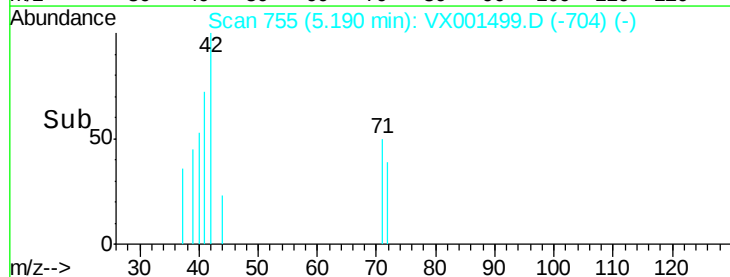
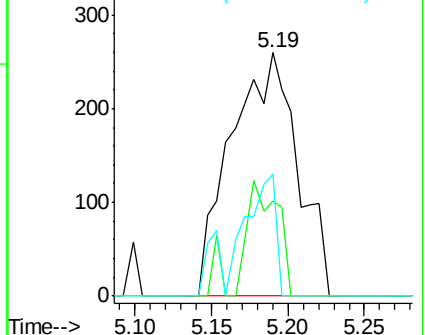
71 22.4 33.0 49.4#

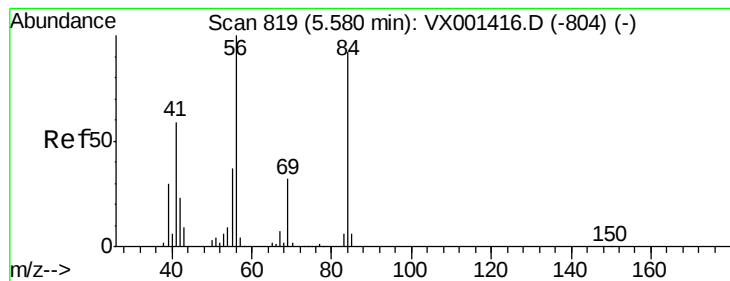


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

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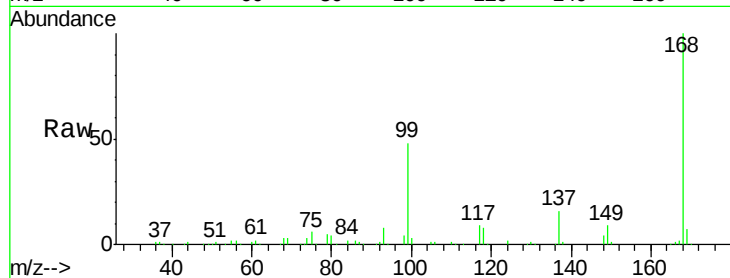
Tgt Ion: 56 Resp: 4548

Ion Ratio Lower Upper

56 100

69 163.3 25.4 38.0#

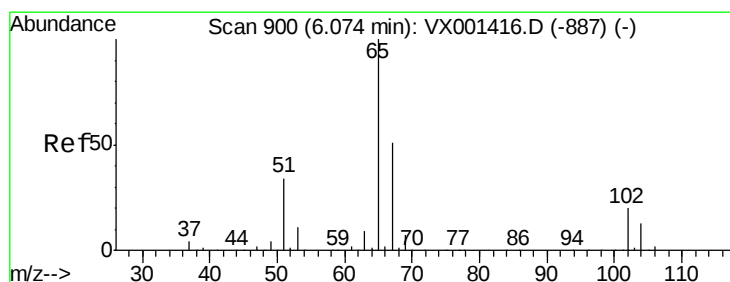
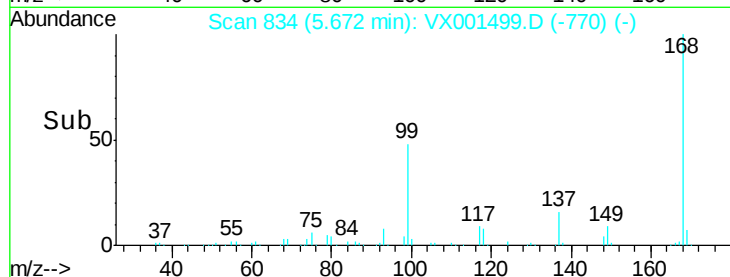
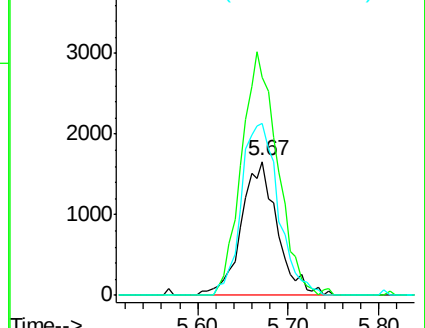
84 128.3 73.8 110.8#



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: 46.85 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001499.D

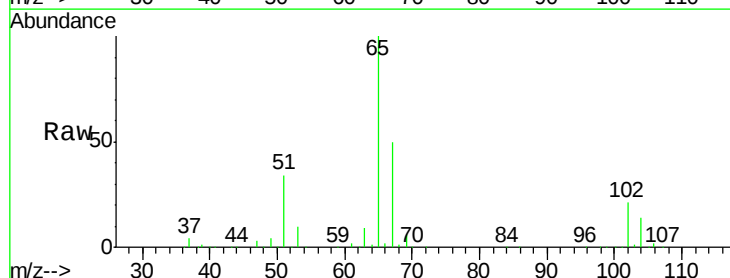
Acq: 08 May 2018 06:52

Tgt Ion: 65 Resp: 176714

Ion Ratio Lower Upper

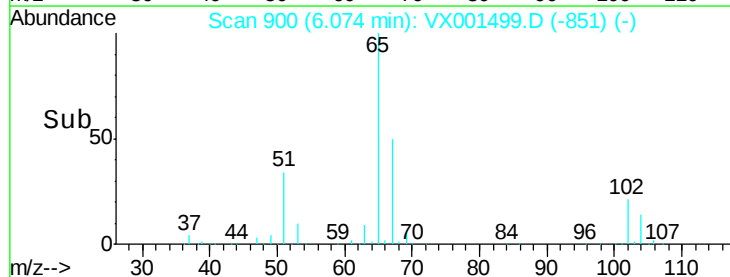
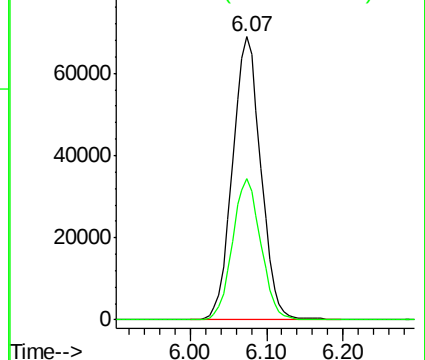
65 100

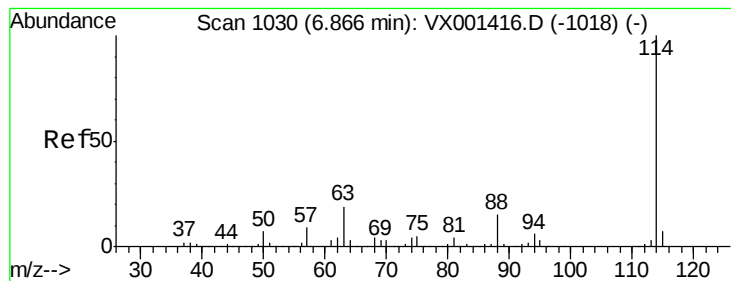
67 49.9 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

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CB-TCLP-VAR4-0518

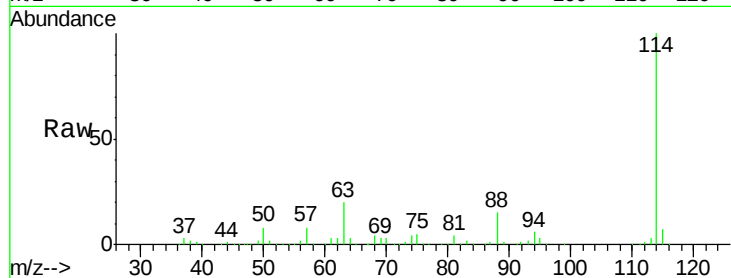
Tgt Ion:114 Resp: 366681

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.6

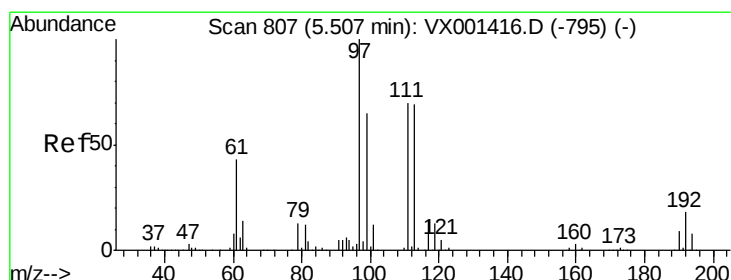
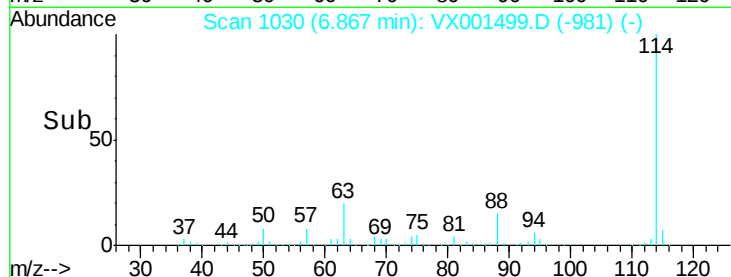
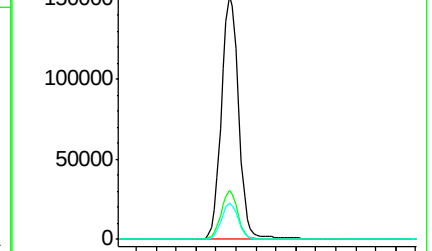
88 14.7 0.0 30.8



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: 41.59 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

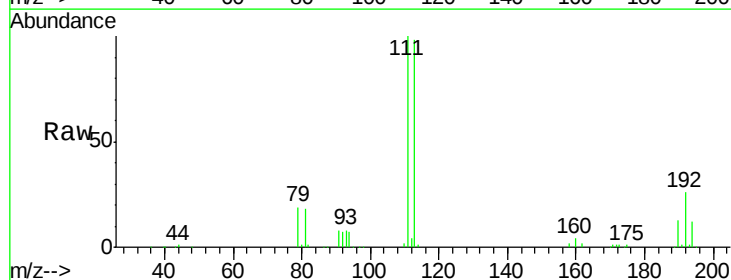
Tgt Ion:113 Resp: 135655

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.2

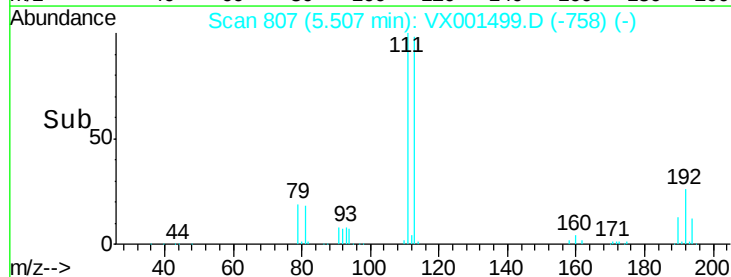
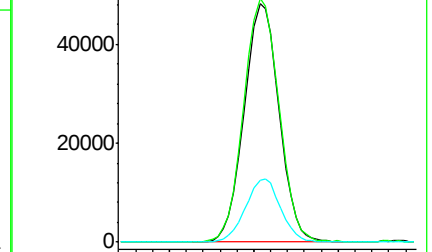
192 26.6 21.4 32.0

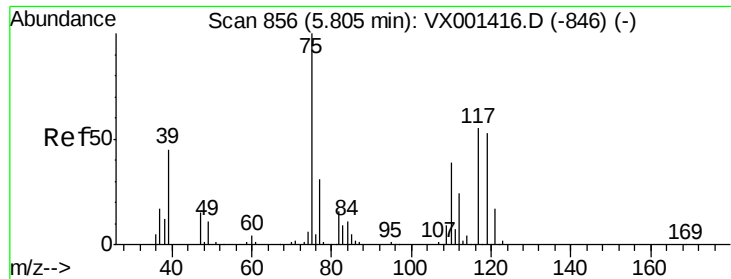


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

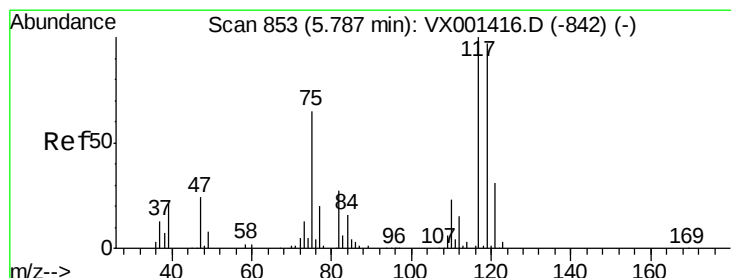
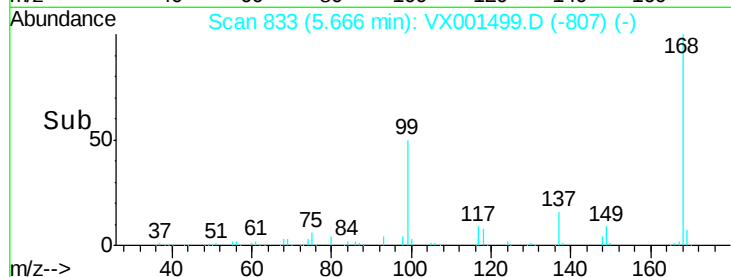
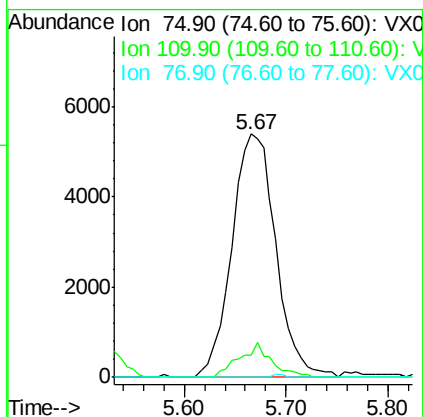
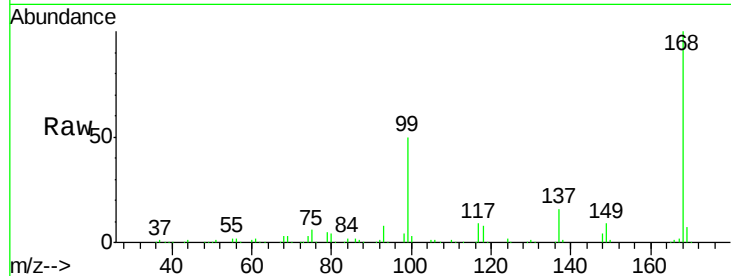




#36
 1,1-Dichloropropene
 Concen: 3.45 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001499.D
 Acq: 08 May 2018 06:52

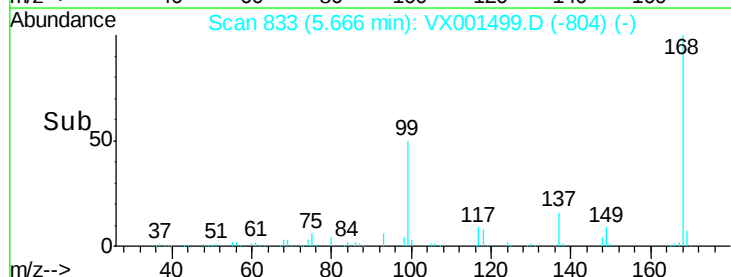
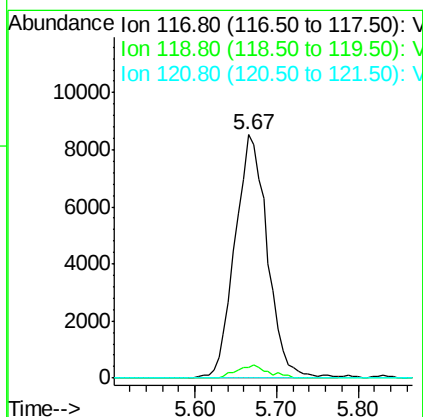
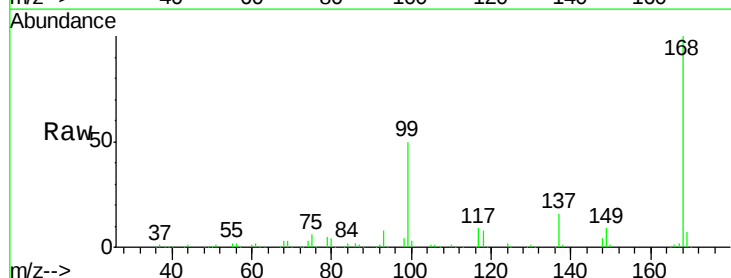
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-TCLP-VAR4-0518

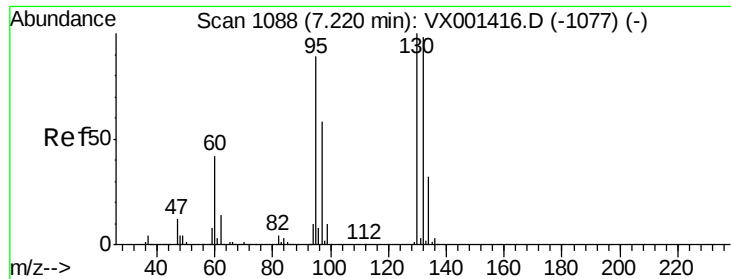
Tgt Ion: 75 Resp: 16095
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.9 56.7#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.72 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX001499.D
 Acq: 08 May 2018 06:52

Tgt Ion: 117 Resp: 23464
 Ion Ratio Lower Upper
 117 100
 119 4.2 77.0 115.6#
 121 0.0 25.1 37.7#

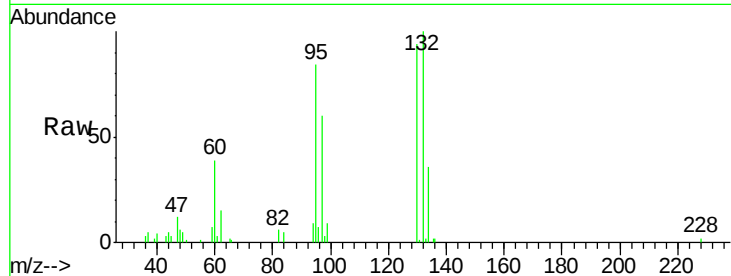




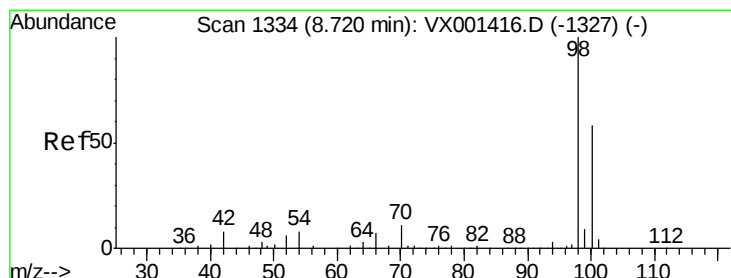
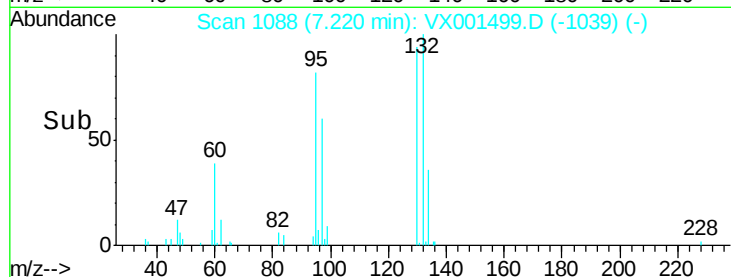
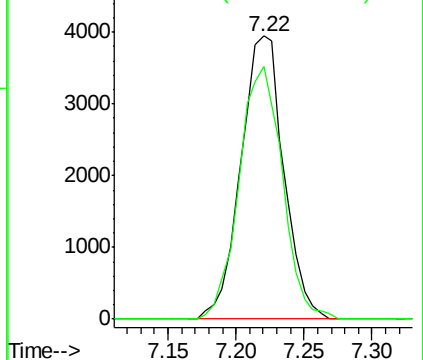
#44
 Trichloroethene
 Concen: 2.10 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: VX001499.D
 Acq: 08 May 2018 06:52

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-TCLP-VAR4-0518

Tgt Ion:130 Resp: 8730
 Ion Ratio Lower Upper
 130 100
 95 89.4 0.0 178.4

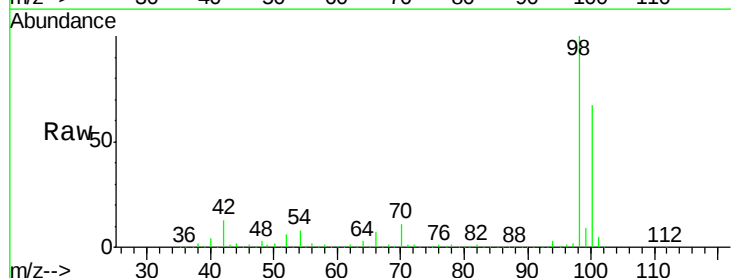


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

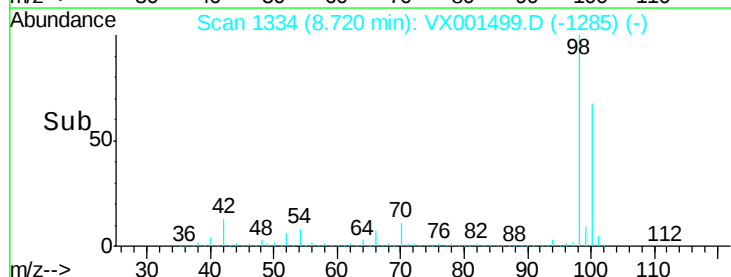
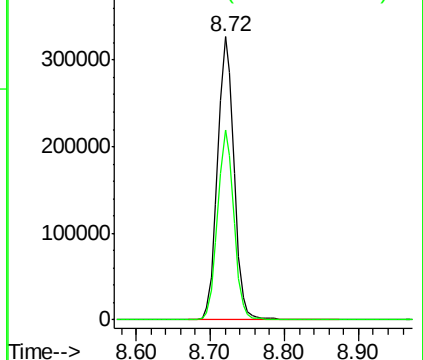


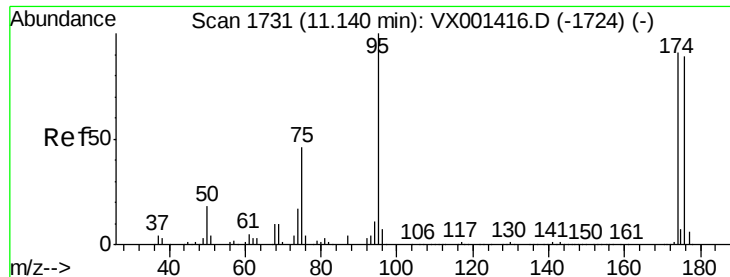
#50
 Toluene-d8
 Concen: 41.95 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX001499.D
 Acq: 08 May 2018 06:52

Tgt Ion: 98 Resp: 499371
 Ion Ratio Lower Upper
 98 100
 100 66.4 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V

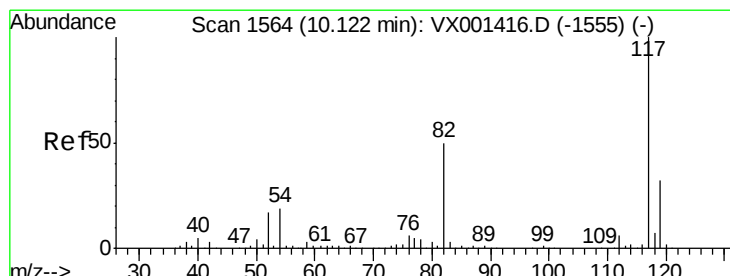
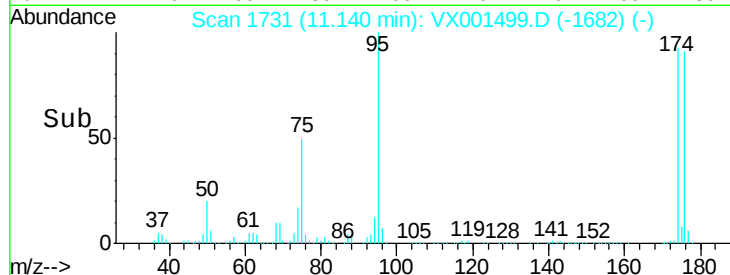
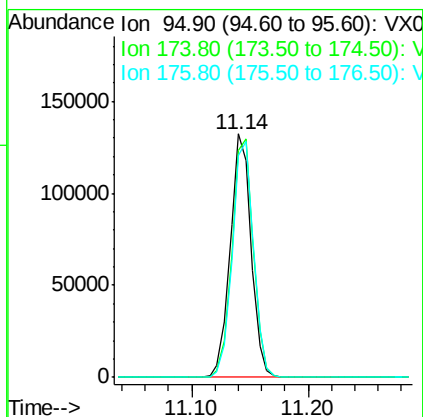
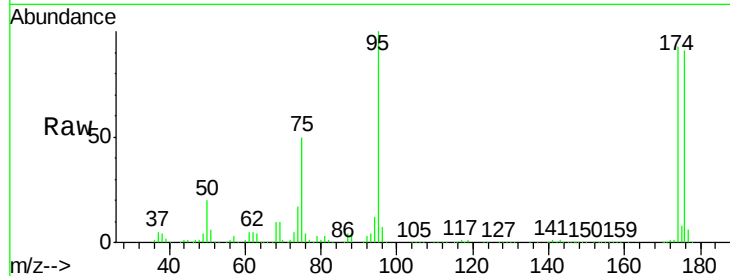




#62
4-Bromofluorobenzene
Concen: 36.08 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001499.D
Acq: 08 May 2018 06:52

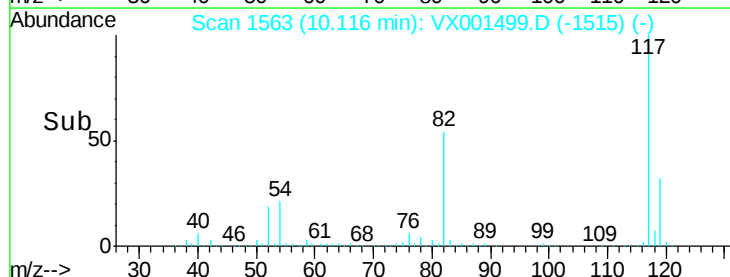
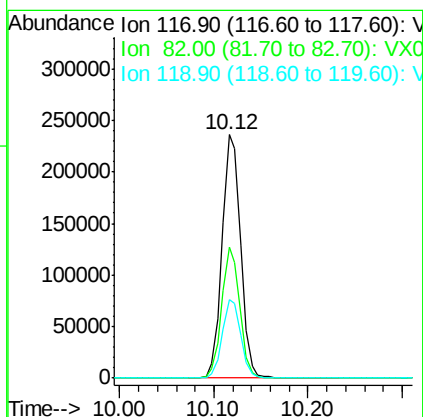
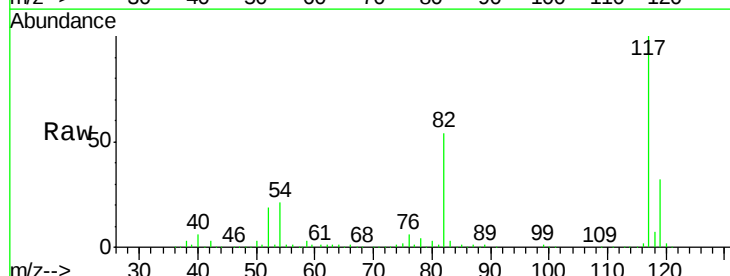
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

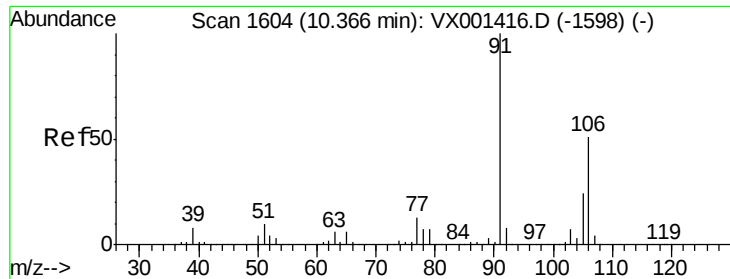
Tgt Ion: 95 Resp: 164892
Ion Ratio Lower Upper
95 100
174 100.4 0.0 202.0
176 98.7 0.0 197.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001499.D
Acq: 08 May 2018 06:52

Tgt Ion: 117 Resp: 322170
Ion Ratio Lower Upper
117 100
82 54.1 40.0 60.0
119 32.3 25.8 38.8

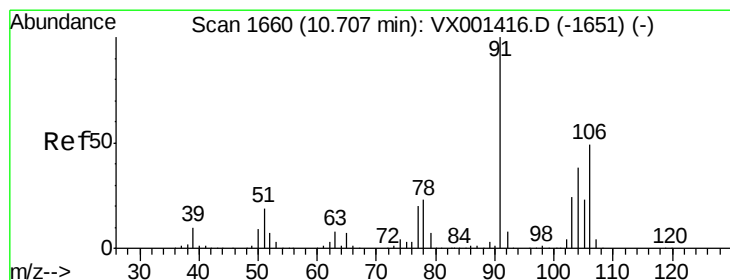
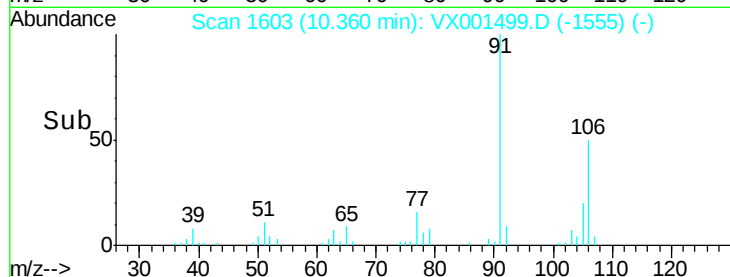
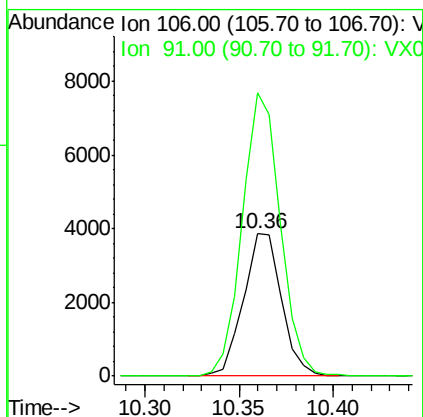
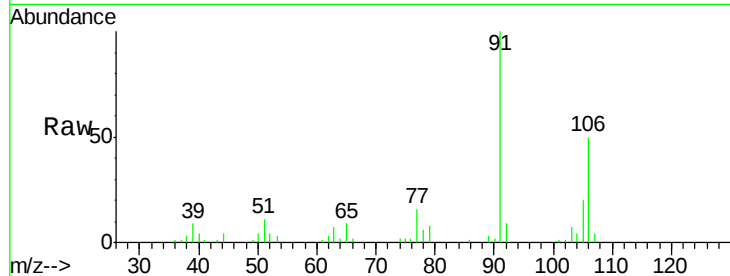




#68
m/p-Xylenes
Concen: 0.88 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX001499.D
Acq: 08 May 2018 06:52

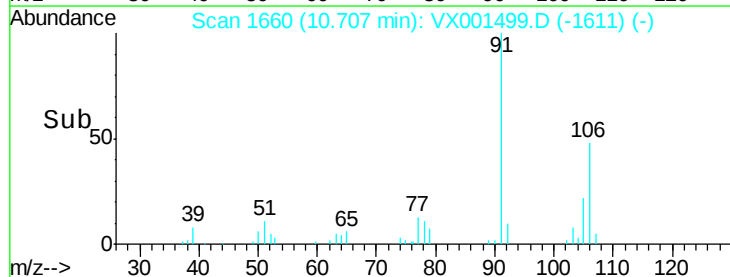
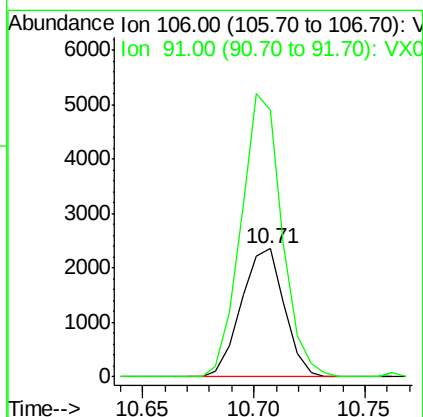
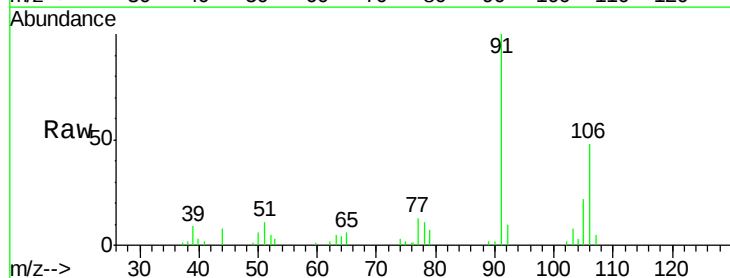
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

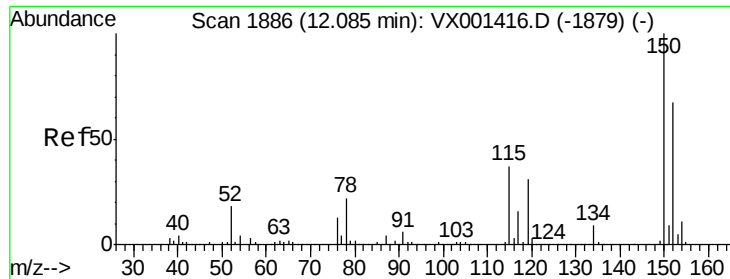
Tgt Ion:106 Resp: 5398
Ion Ratio Lower Upper
106 100
91 198.8 157.5 236.3



#69
o-Xylene
Concen: 0.53 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VX001499.D
Acq: 08 May 2018 06:52

Tgt Ion:106 Resp: 3168
Ion Ratio Lower Upper
106 100
91 210.3 103.1 309.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR4-0518

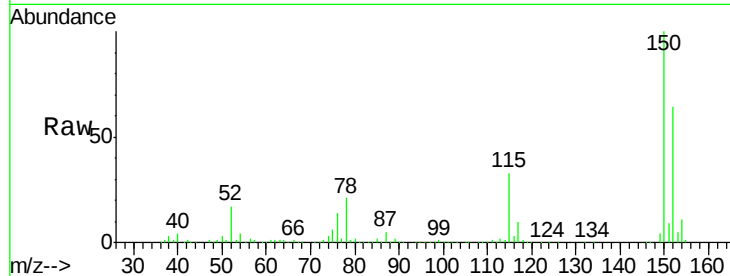
Tgt Ion:152 Resp: 178698

Ion Ratio Lower Upper

152 100

115 52.7 37.7 113.1

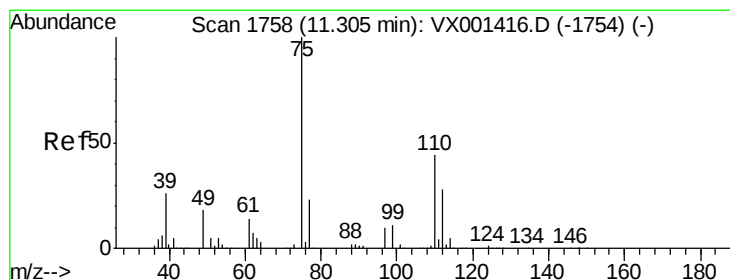
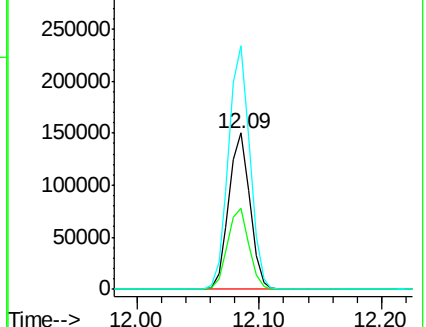
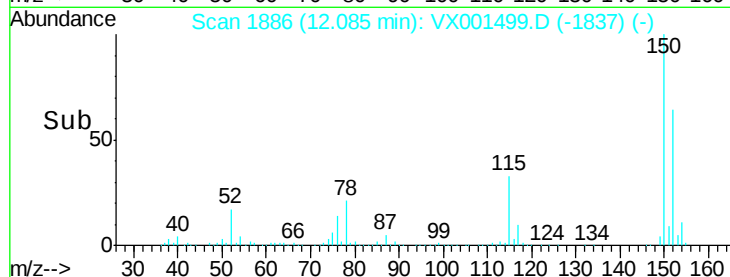
150 157.2 0.0 349.4



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: 22.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001499.D

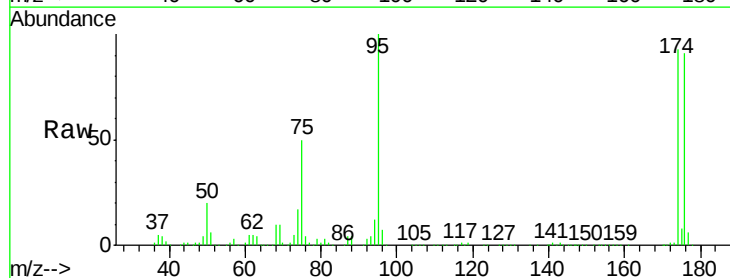
Acq: 08 May 2018 06:52

Tgt Ion: 75 Resp: 82938

Ion Ratio Lower Upper

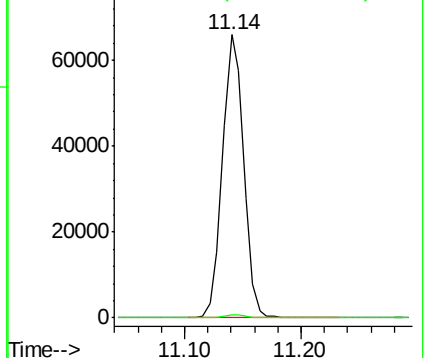
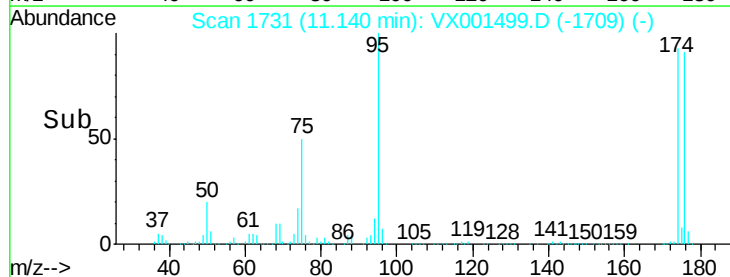
75 100

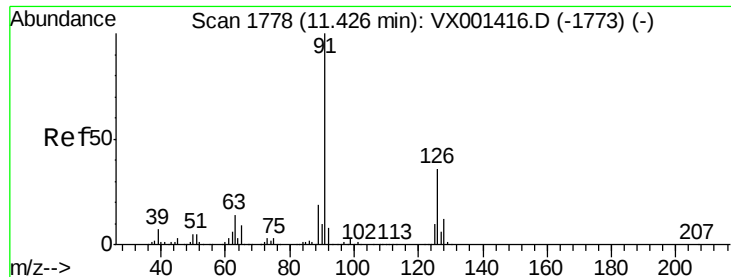
77 1.4 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: 0.21 ug/l

RT: 11.44 min Scan# 1780

Delta R.T. 0.01 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

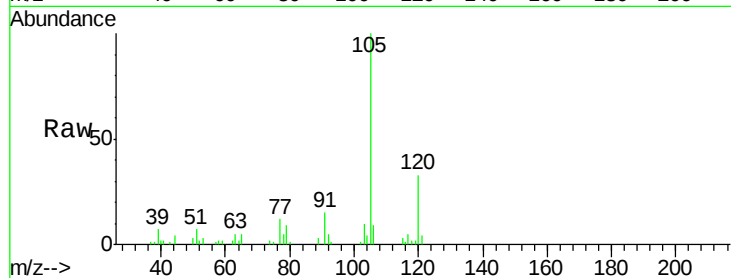
CB-TCLP-VAR4-0518

Tgt Ion: 91 Resp: 1753

Ion Ratio Lower Upper

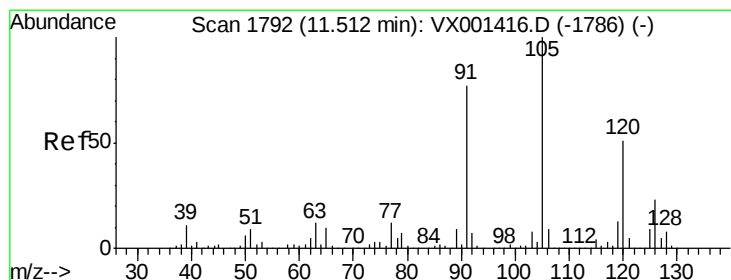
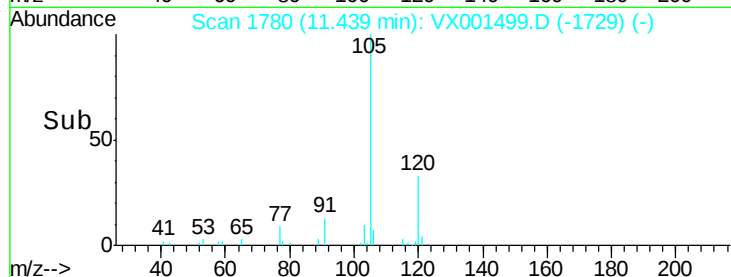
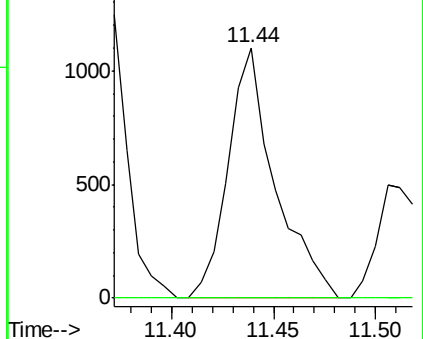
91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VX001416.D (-1773) (-)

Ion 125.90 (125.60 to 126.60): VX001416.D (-1773) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.51 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX001499.D

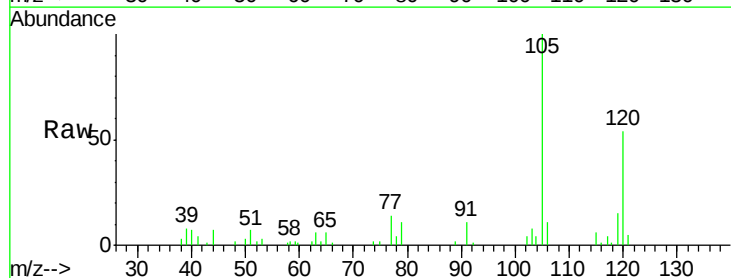
Acq: 08 May 2018 06:52

Tgt Ion: 105 Resp: 5275

Ion Ratio Lower Upper

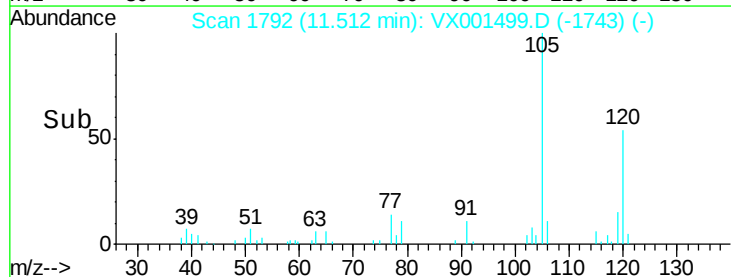
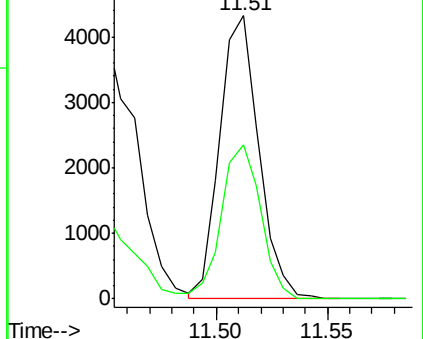
105 100

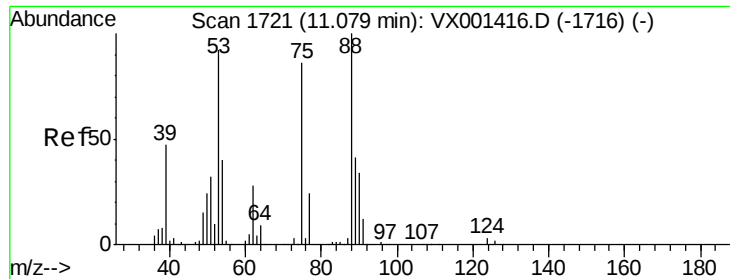
120 55.0 25.7 77.1



Abundance Ion 105.00 (104.70 to 105.70): VX001416.D (-1786) (-)

Ion 120.00 (119.70 to 120.70): VX001416.D (-1786) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 70.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001499.D

Acq: 08 May 2018 06:52

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR4-0518

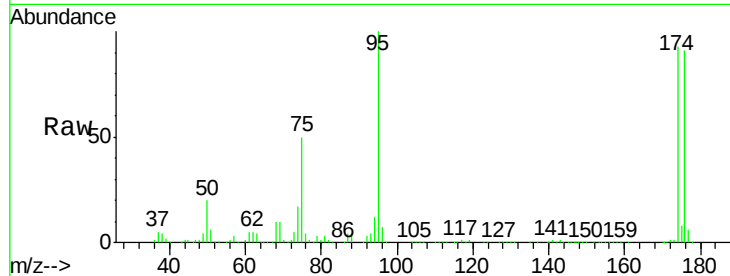
Tgt Ion: 75 Resp: 82938

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

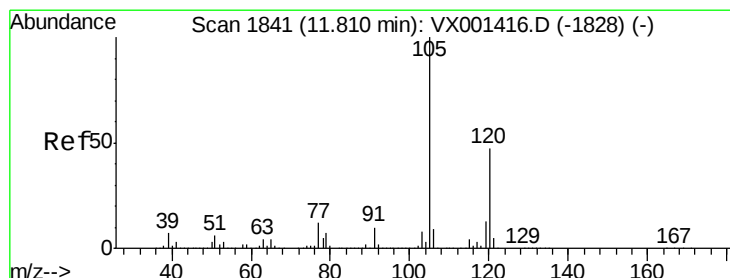
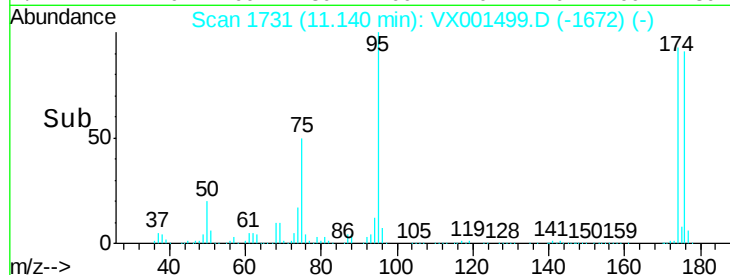
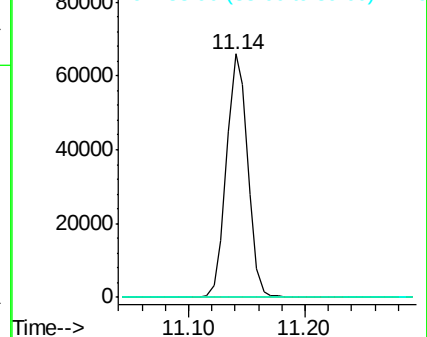
89 0.0 39.5 59.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 2.14 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX001499.D

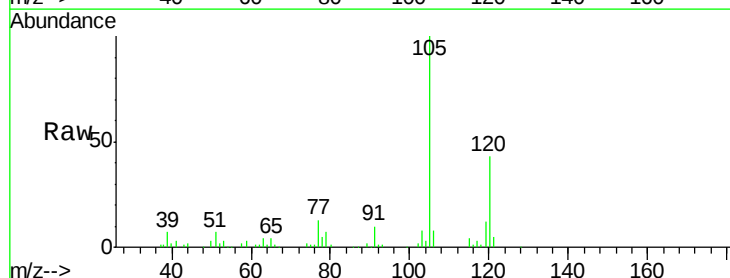
Acq: 08 May 2018 06:52

Tgt Ion: 105 Resp: 22657

Ion Ratio Lower Upper

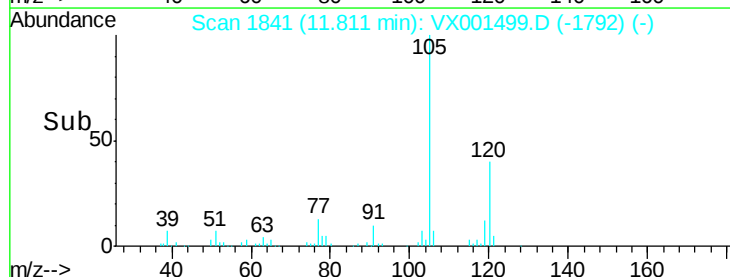
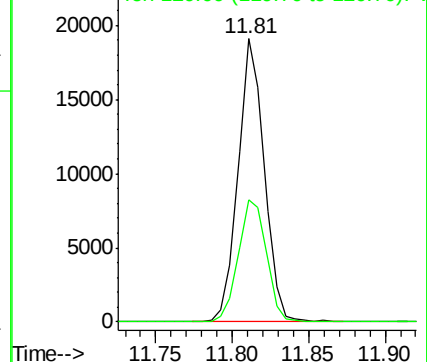
105 100

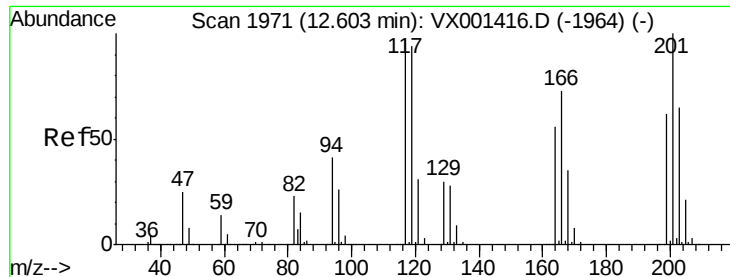
120 46.2 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

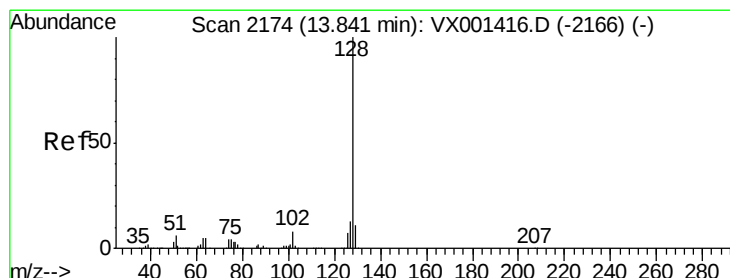
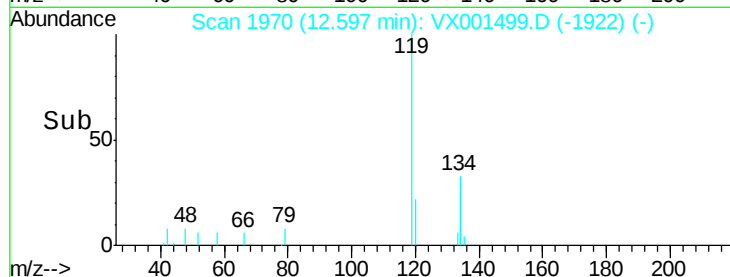
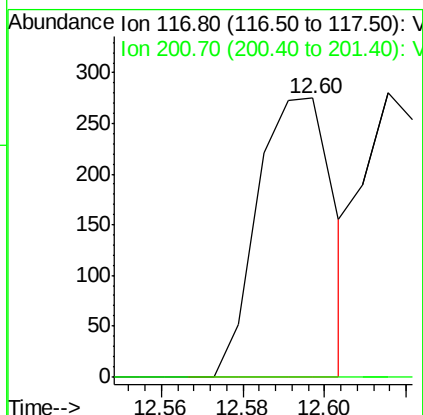
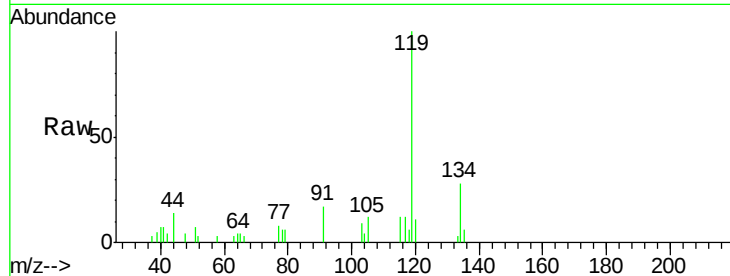




#90
Hexachloroethane
Concen: 0.21 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. -0.01 min
Lab File: VX001499.D
Acq: 08 May 2018 06:52

Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

Tgt Ion:117 Resp: 357
Ion Ratio Lower Upper
117 100
201 0.0 51.5 154.5#



#95
Naphthalene
Concen: 5.66 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX001499.D
Acq: 08 May 2018 06:52

Tgt Ion:128 Resp: 74962
Ion Ratio Lower Upper
128 100
127 12.9 10.4 15.6
129 11.1 8.7 13.1

