

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004084.D
 Acq On : 15 Aug 2018 20:28
 Operator : JC/MD
 Sample : J4439-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB4-SRI3

Quant Time: Aug 16 05:53:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	379005	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	365168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196783	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	183585	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
35) Dibromofluoromethane	5.51	113	156037	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
50) Toluene-d8	8.72	98	549805	47.81	ug/l	0.00
Spiked Amount			Recovery	=	95.62%	
62) 4-Bromofluorobenzene	11.14	95	187049	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	

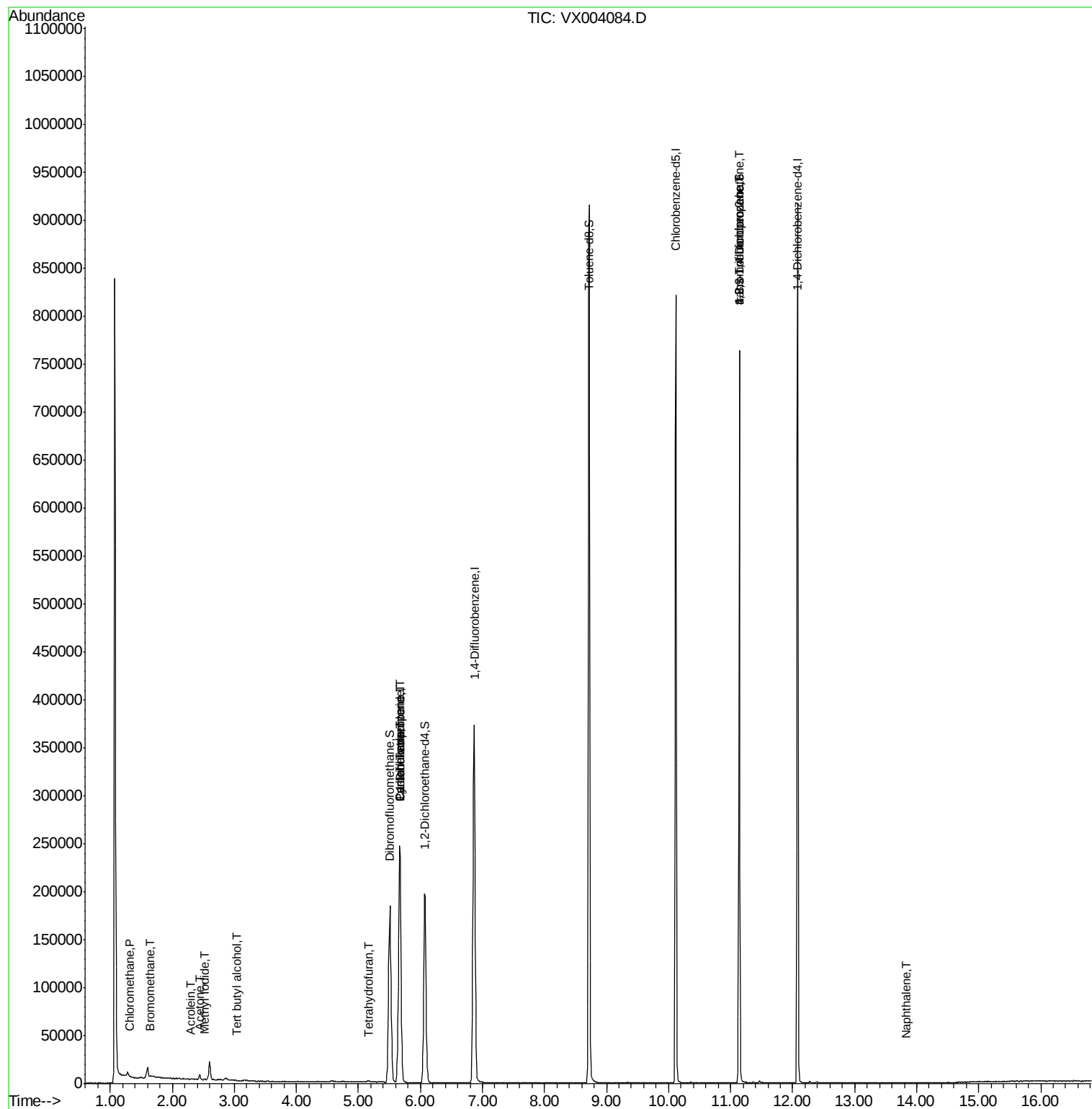
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	671	0.23	ug/l	# 72
5) Bromomethane	1.65	94	964	0.42	ug/l	# 86
6) Chloroethane	1.61	64	3023	Below Cal	#	# 61
10) Methyl Iodide	2.51	142	574	5.18	ug/l	# 86
11) Tert butyl alcohol	3.04	59	402	0.57	ug/l	# 73
13) Acrolein	2.29	56	116	11.18	ug/l	# 63
16) Acetone	2.44	43	5673	3.13	ug/l	# 99
20) Methylene Chloride	2.86	84	1025	Below Cal	#	# 88
29) Tetrahydrofuran	5.16	42	1332	0.88	ug/l	# 79
31) Cyclohexane	5.67	56	4682	0.97	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16947	3.93	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	21948	5.24	ug/l	# 15
76) 1,2,3-Trichloropropane	11.14	75	90772	23.00	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	90772	71.20	ug/l	# 9
95) Naphthalene	13.83	128	298	1.17	ug/l	# 69

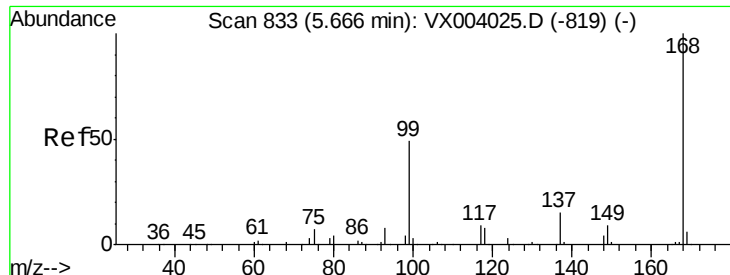
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

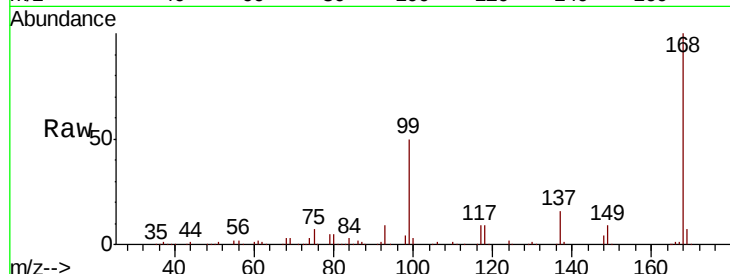
TB4-SRI3

Tot Ion:168 Resp: 247684

Ion Ratio Lower Upper

168 100

99 50.2 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

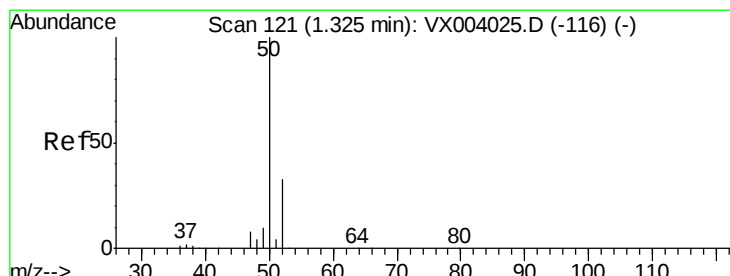
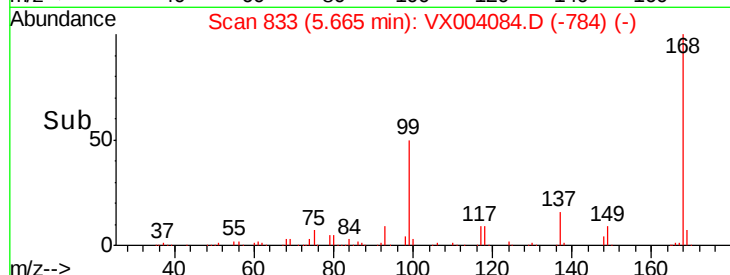
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004084.D

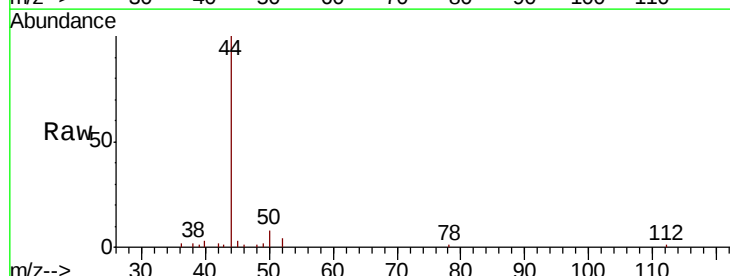
Acq: 15 Aug 2018 20:28

Tgt Ion: 50 Resp: 671

Ion Ratio Lower Upper

50 100

52 49.3 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

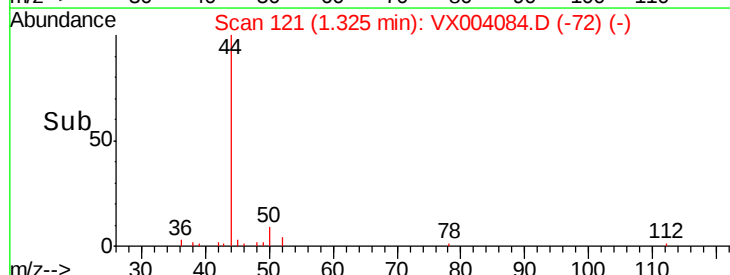
300

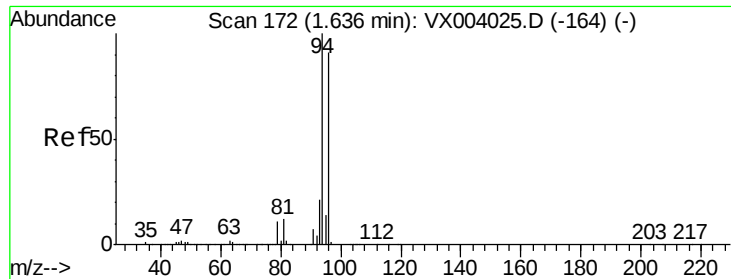
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.42 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampled :

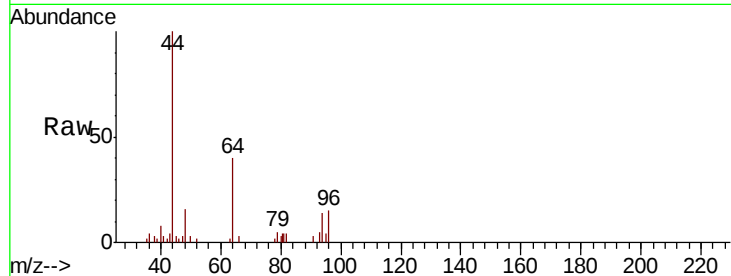
TB4-SRI3

Tot Ion: 94 Resp: 964

Ion Ratio Lower Upper

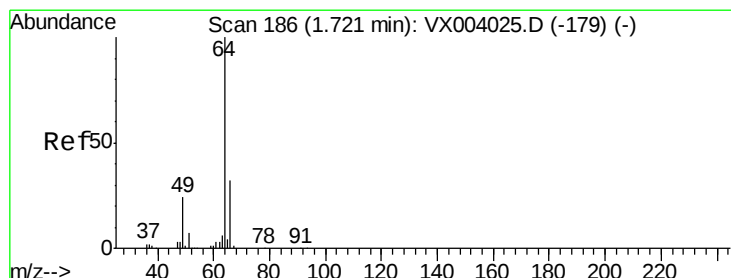
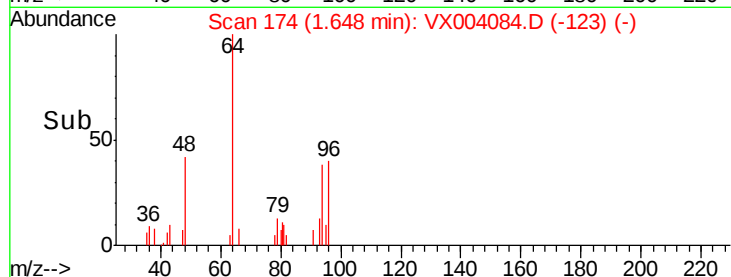
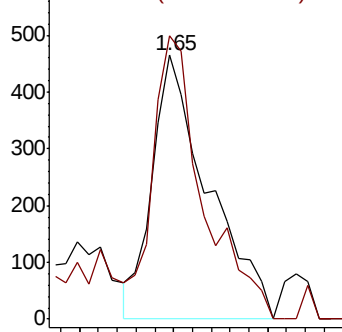
94 100

96 107.1 75.2 112.8



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: 1.61 min Scan# 167

Delta R.T. -0.12 min

Lab File: VX004084.D

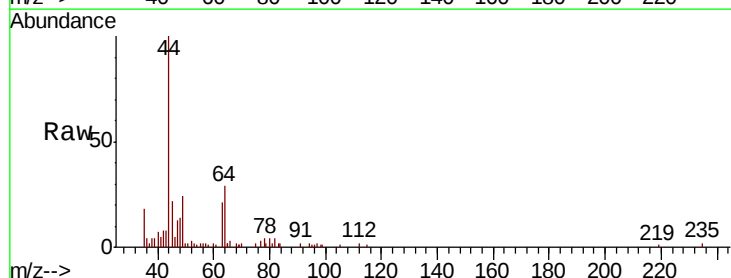
Acq: 15 Aug 2018 20:28

Tgt Ion: 64 Resp: 3023

Ion Ratio Lower Upper

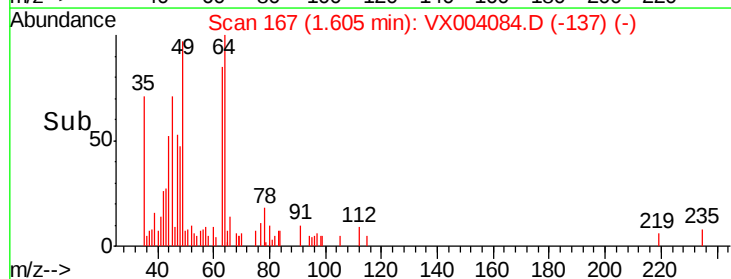
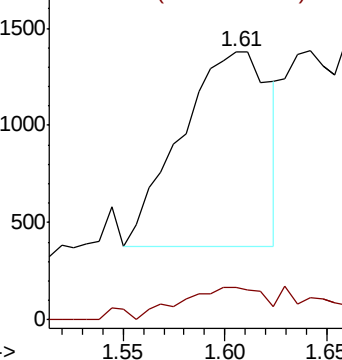
64 100

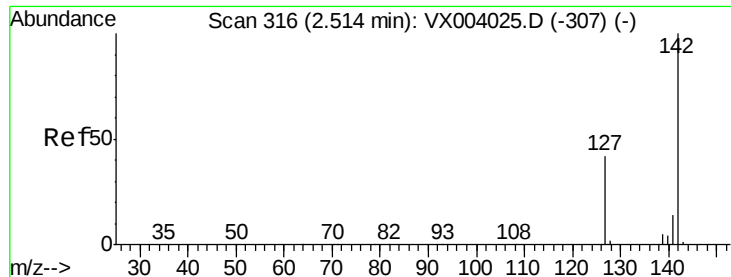
66 10.8 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

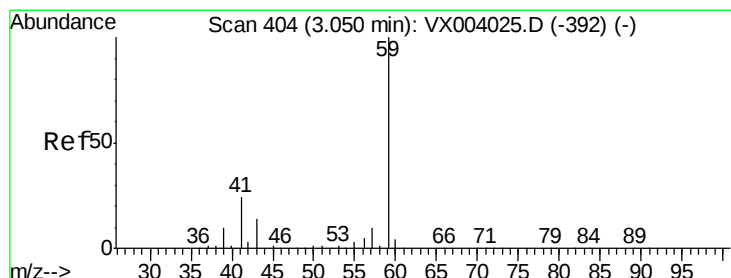
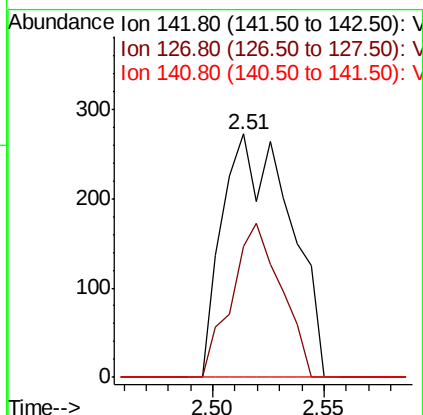
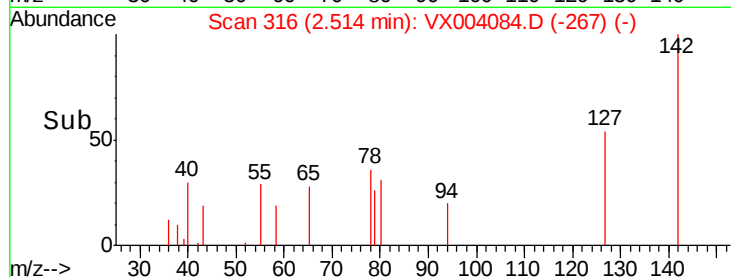
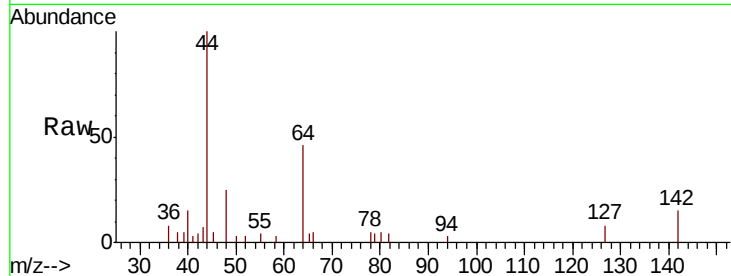




#10
Methyl Iodide
Concen: 5.18 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004084.D
Acq: 15 Aug 2018 20:28

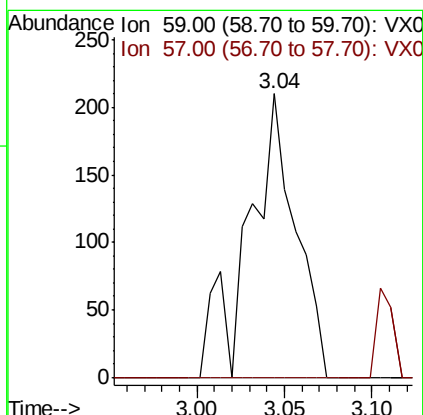
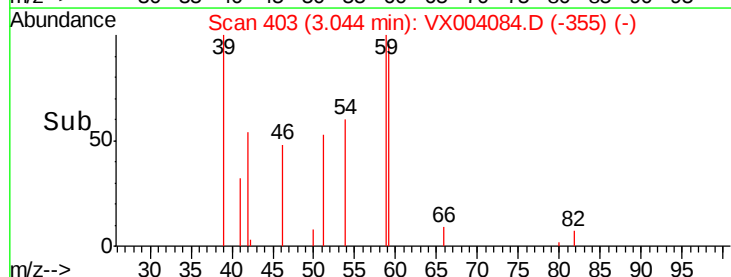
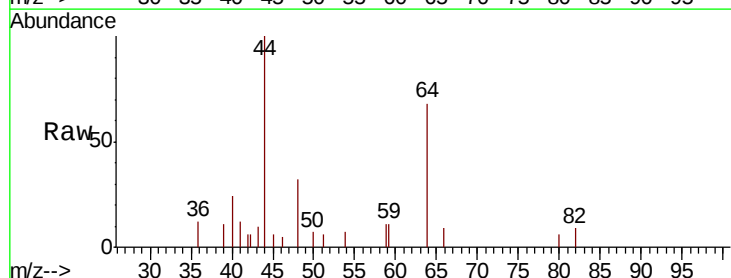
Instrument :
MSVOA_X
ClientSampled :
TB4-SRI3

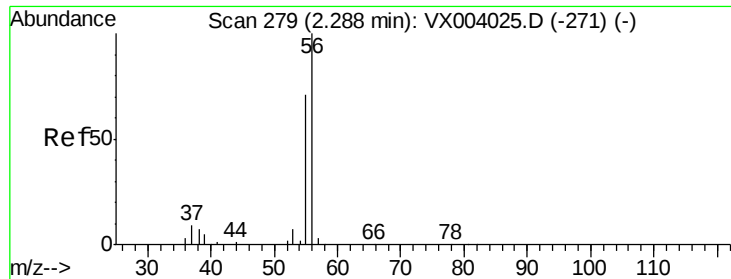
Tot Ion:142 Resp: 574
Ion Ratio Lower Upper
142 100
127 46.2 33.1 49.7
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.57 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004084.D
Acq: 15 Aug 2018 20:28

Tgt Ion: 59 Resp: 402
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 11.18 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampled :

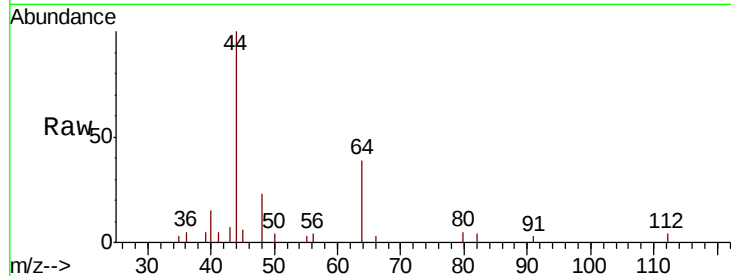
TB4-SRI3

Tot Ion: 56 Resp: 116

Ion Ratio Lower Upper

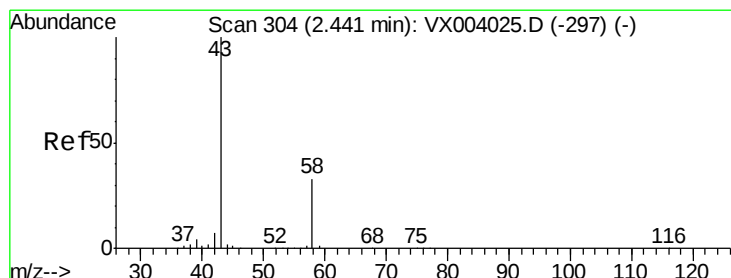
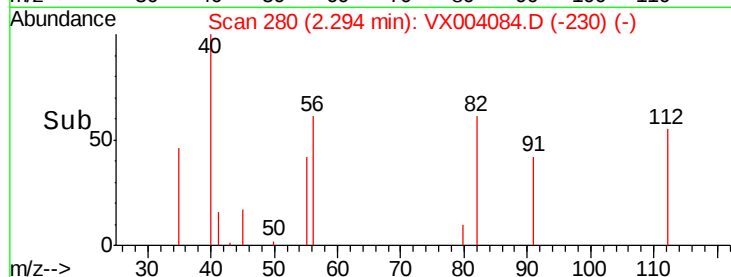
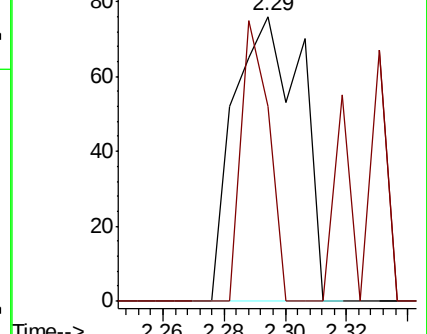
56 100

55 39.7 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.13 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004084.D

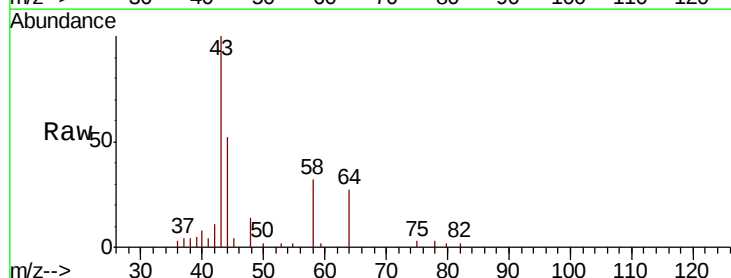
Acq: 15 Aug 2018 20:28

Tgt Ion: 43 Resp: 5673

Ion Ratio Lower Upper

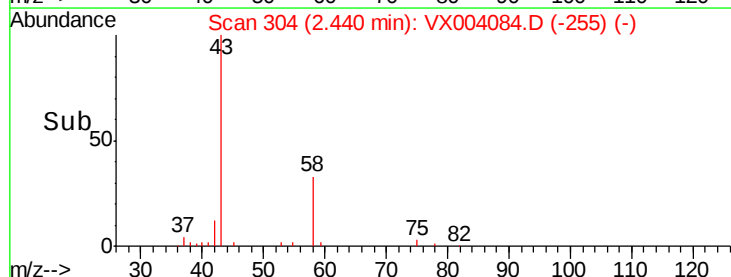
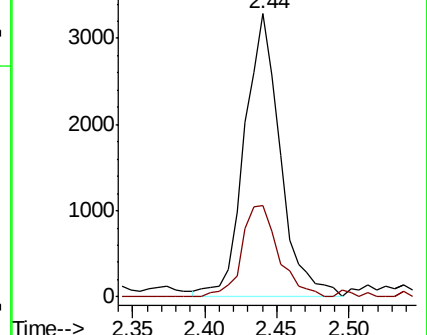
43 100

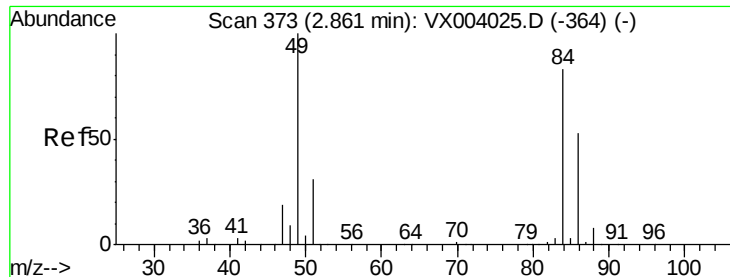
58 32.5 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

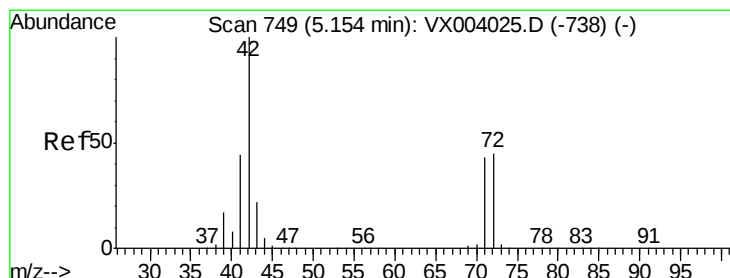
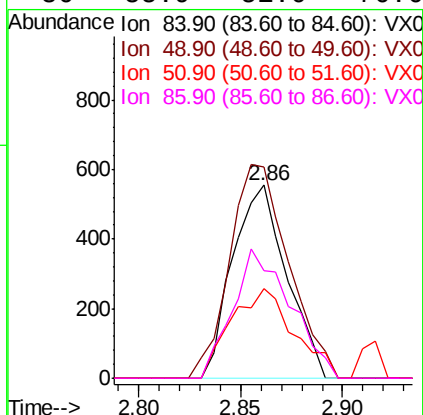
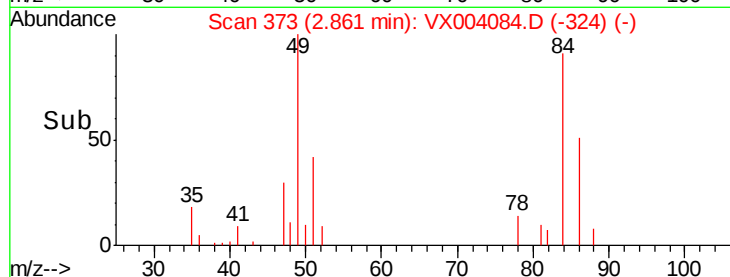
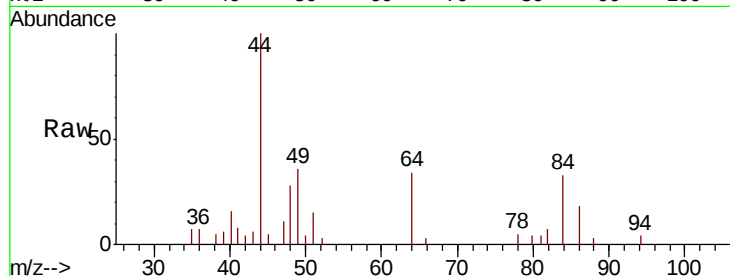




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004084.D
Acq: 15 Aug 2018 20:28

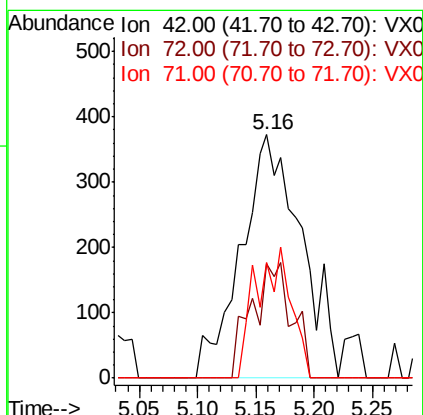
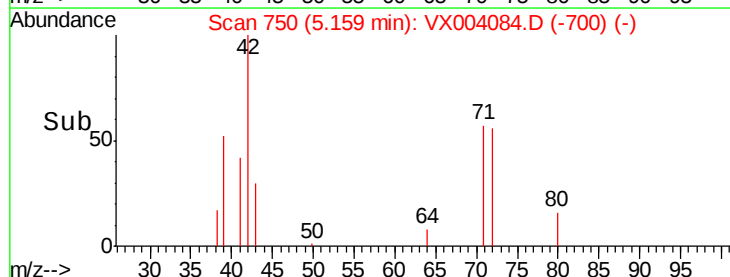
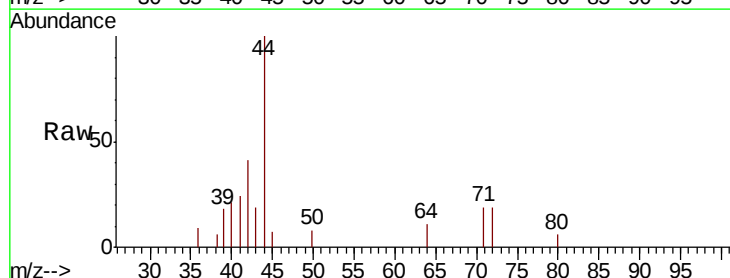
Instrument :
MSVOA_X
ClientSampleId :
TB4-SRI3

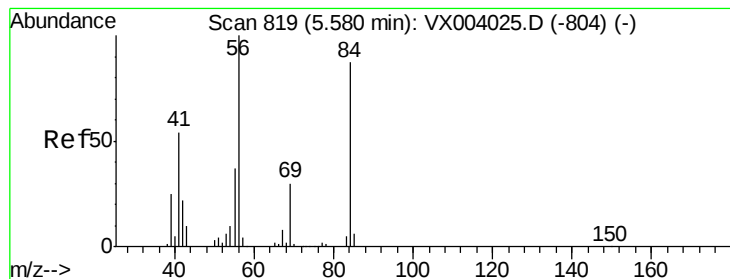
Tot Ion	Ratio	Lower	Upper
84	100		
49	109.4	98.9	148.3
51	46.3	29.9	44.9#
86	55.9	51.0	76.6



#29
Tetrahydrofuran
Concen: 0.88 ug/l
RT: 5.16 min Scan# 750
Delta R.T. 0.01 min
Lab File: VX004084.D
Acq: 15 Aug 2018 20:28

Tgt Ion	Ratio	Lower	Upper
42	100		
72	32.0	37.7	56.5#
71	31.8	35.0	52.6#





#31

Cyclohexane

Concen: 0.97 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

TB4-SRI3

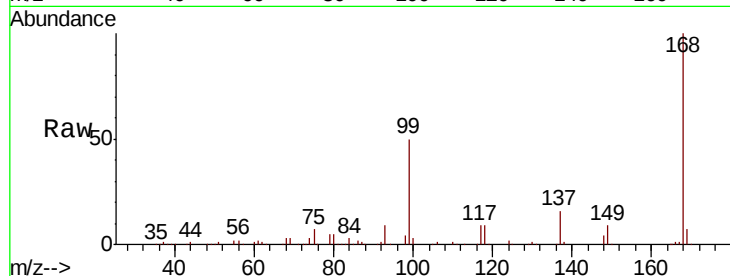
Tot Ion: 56 Resp: 4682

Ion Ratio Lower Upper

56 100

69 167.7 24.9 37.3#

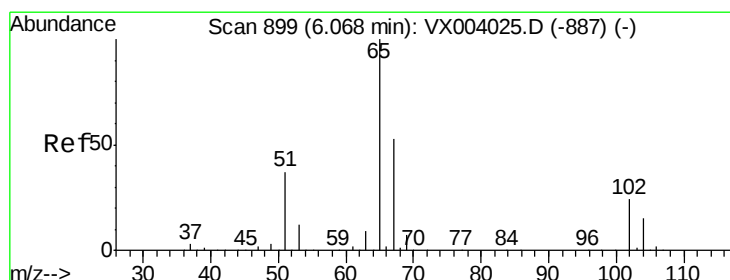
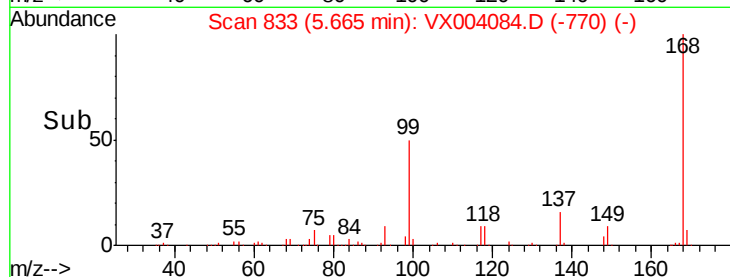
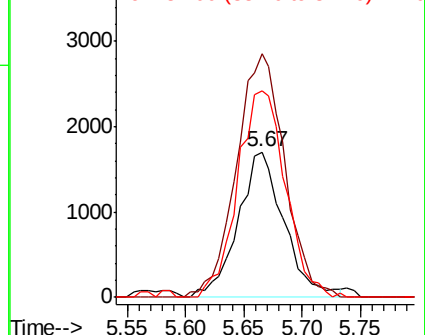
84 148.7 71.7 107.5#



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: 52.61 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004084.D

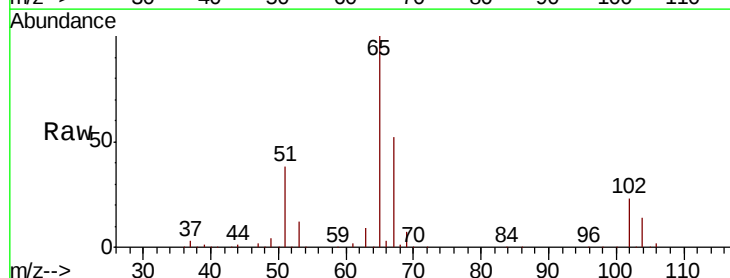
Acq: 15 Aug 2018 20:28

Tgt Ion: 65 Resp: 183585

Ion Ratio Lower Upper

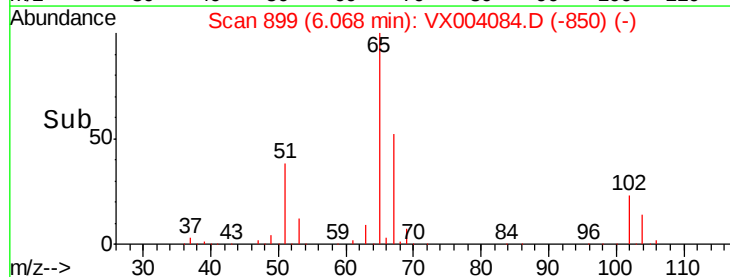
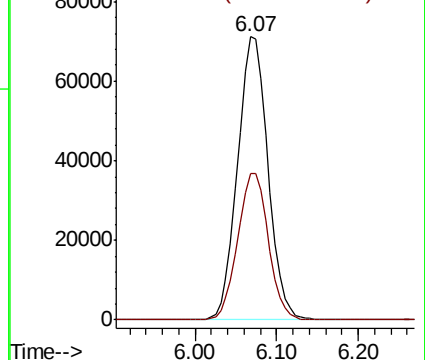
65 100

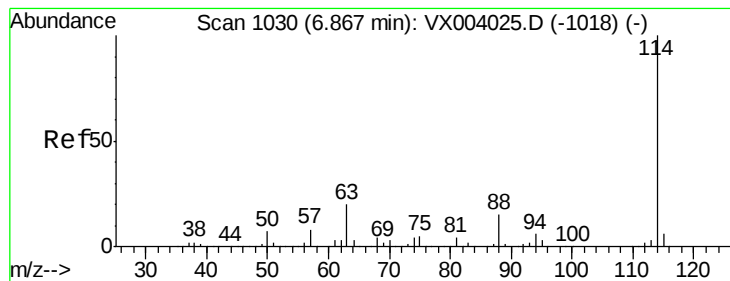
67 52.3 0.0 105.8



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: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

TB4-SRI3

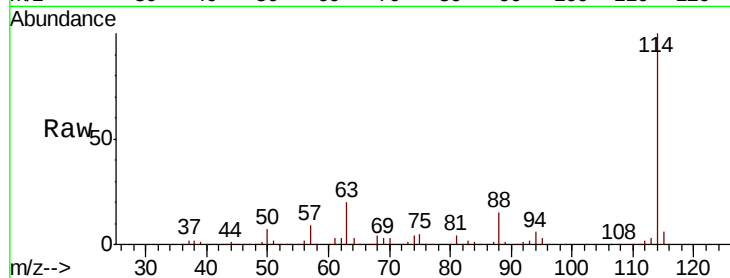
Tot Ion:114 Resp: 379005

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

88 15.4 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

200000

150000

100000

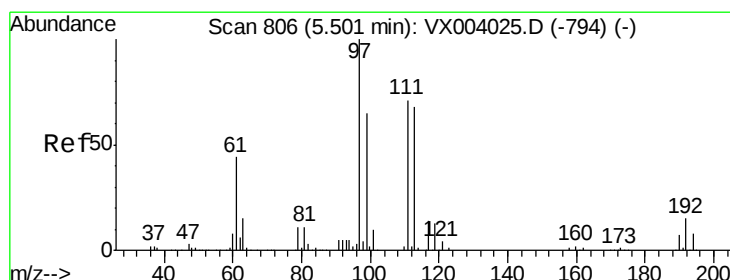
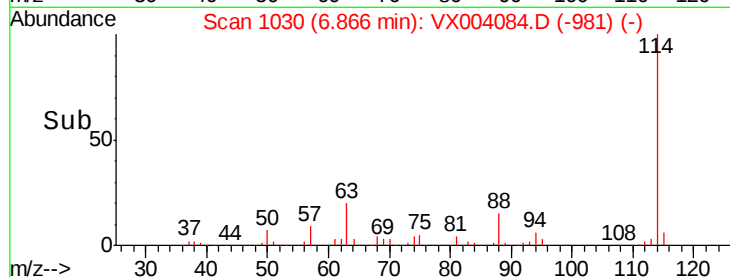
50000

0

6.87

6.70 6.80 6.90 7.00 7.10

Time-->



#35

Dibromofluoromethane

Concen: 55.01 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

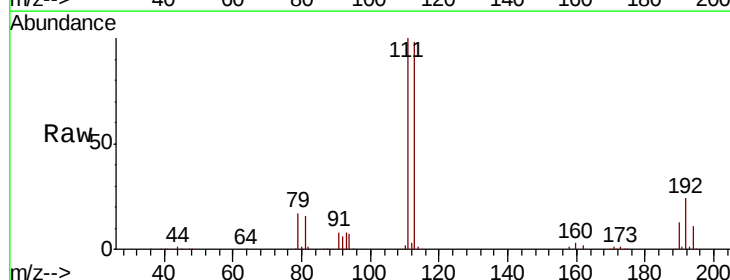
Tgt Ion:113 Resp: 156037

Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

192 23.4 19.0 28.4



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

60000

40000

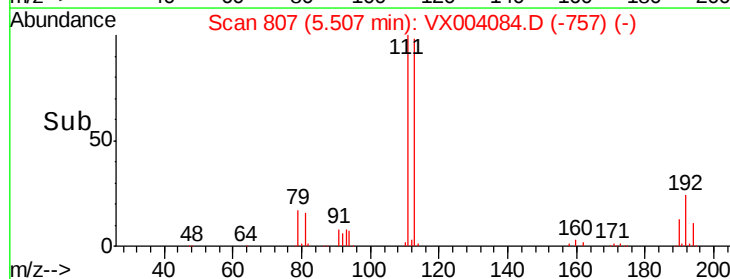
20000

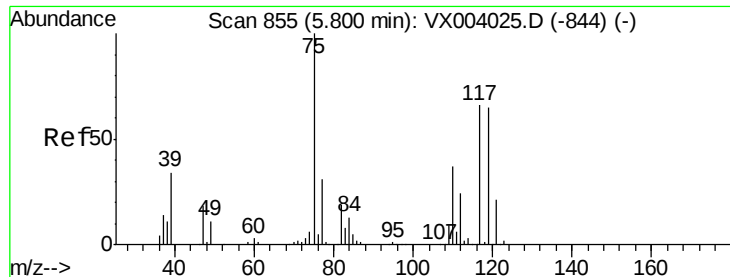
0

5.51

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 3.93 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

TB4-SRI3

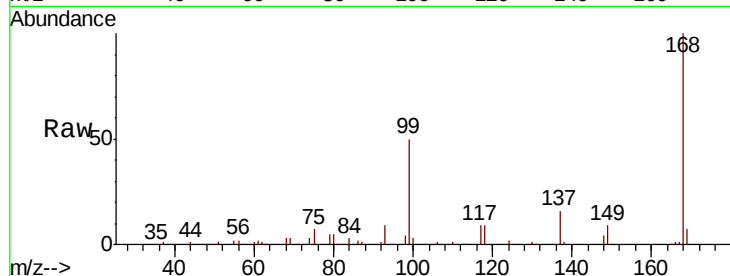
Tot Ion: 75 Resp: 16947

Ion Ratio Lower Upper

75 100

110 8.7 18.2 54.6#

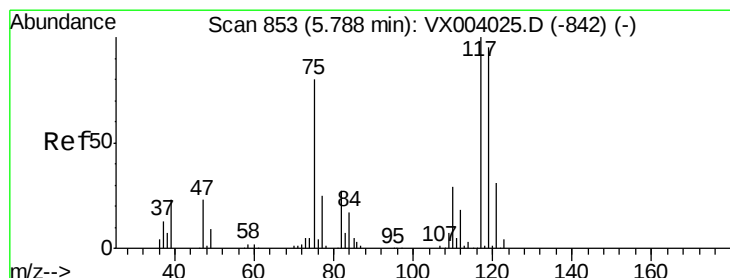
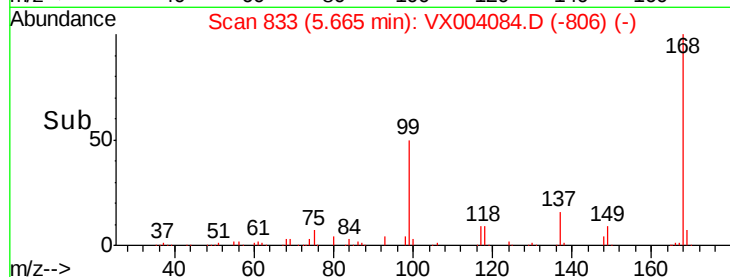
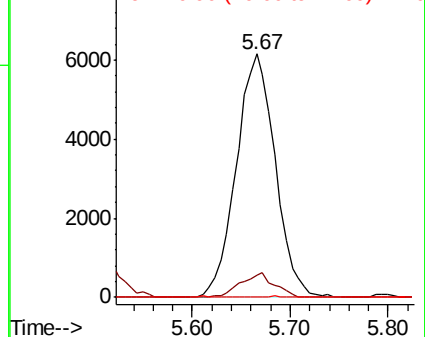
77 0.1 25.0 37.4#



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: 5.24 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

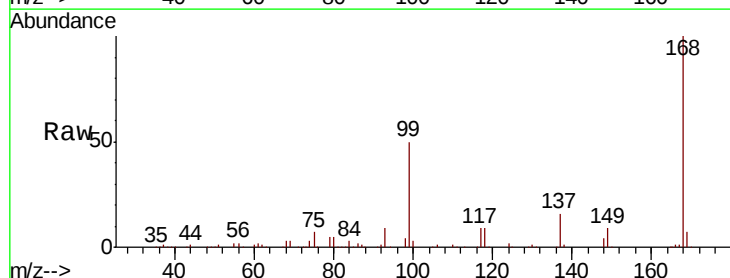
Tgt Ion: 117 Resp: 21948

Ion Ratio Lower Upper

117 100

119 5.6 79.5 119.3#

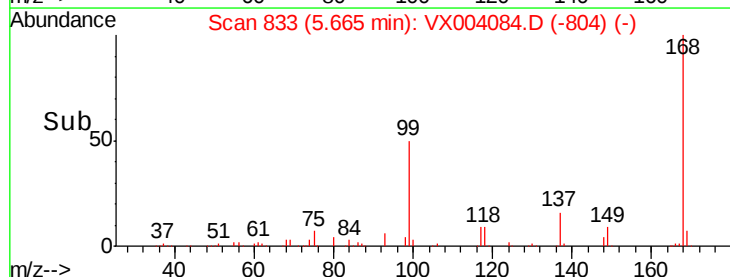
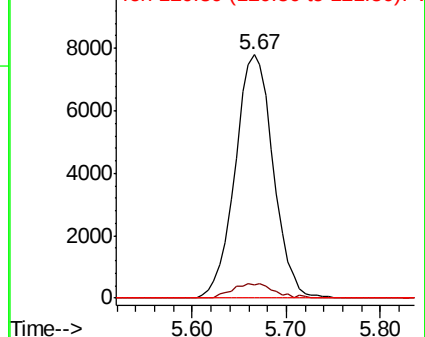
121 0.0 25.0 37.4#

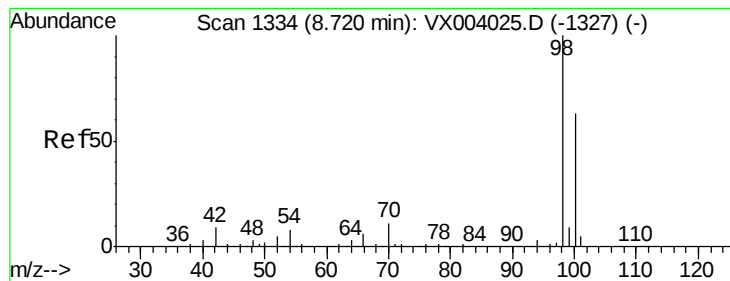


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.81 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

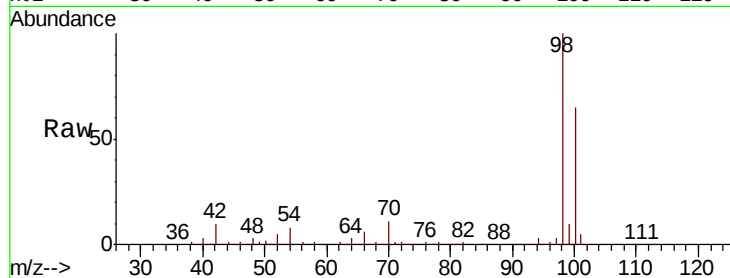
TB4-SRI3

Tot Ion: 98 Resp: 549805

Ion Ratio Lower Upper

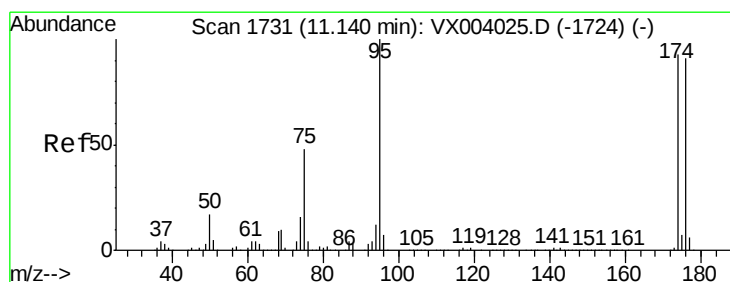
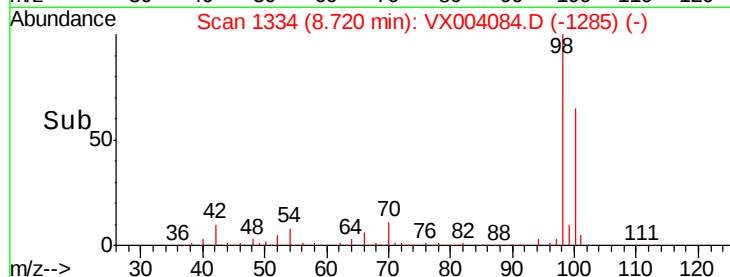
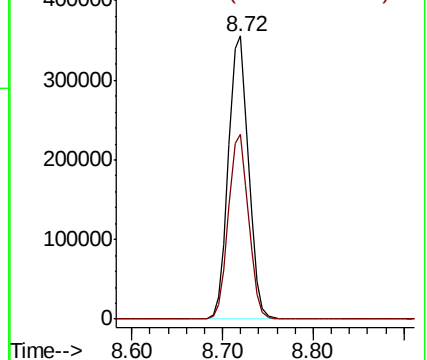
98 100

100 65.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V>



#62

4-Bromofluorobenzene

Concen: 44.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

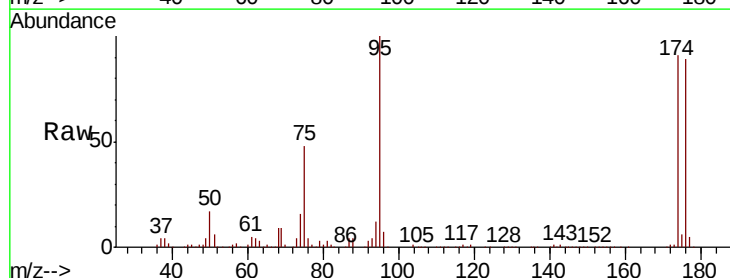
Tgt Ion: 95 Resp: 187049

Ion Ratio Lower Upper

95 100

174 90.8 0.0 182.8

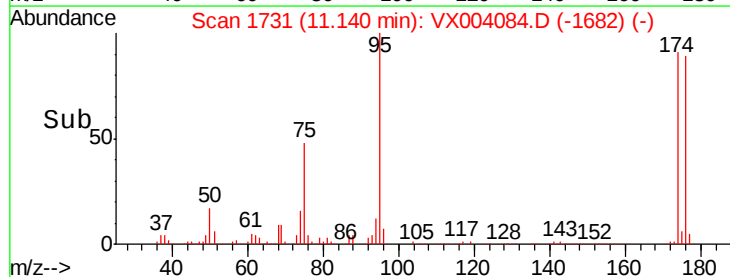
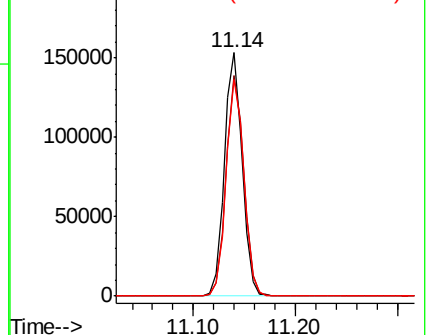
176 88.5 0.0 179.0

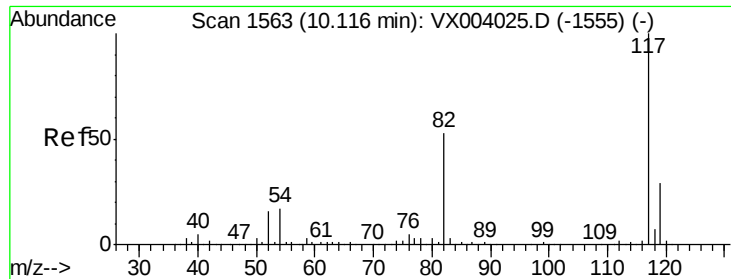


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

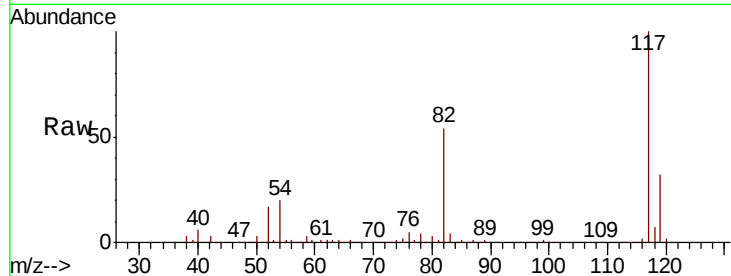




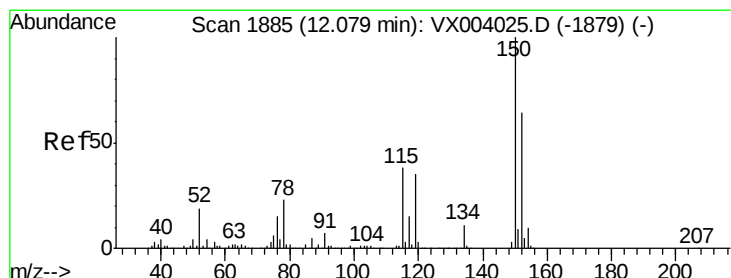
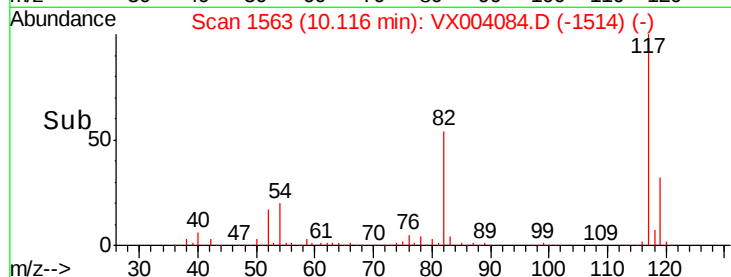
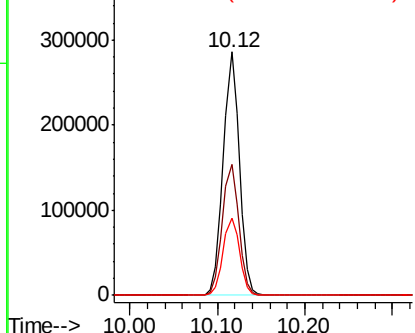
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004084.D
Acq: 15 Aug 2018 20:28

Instrument :
MSVOA_X
ClientSampleId :
TB4-SRI3

Tot Ion:117 Resp: 365168
Ion Ratio Lower Upper
117 100
82 53.5 45.4 68.0
119 31.6 26.6 40.0

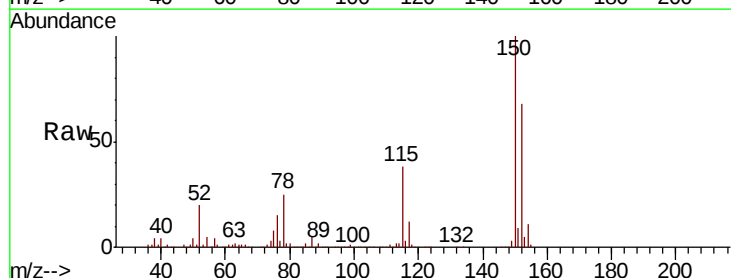


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

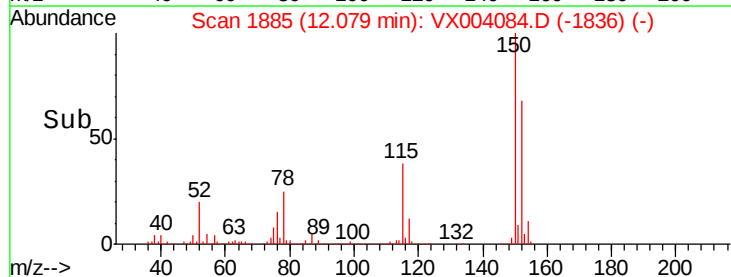
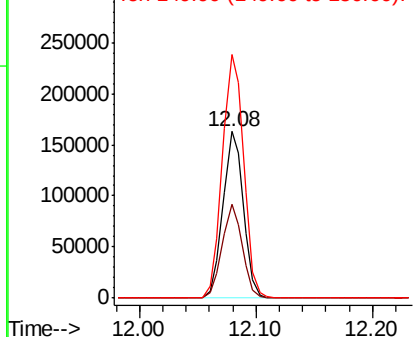


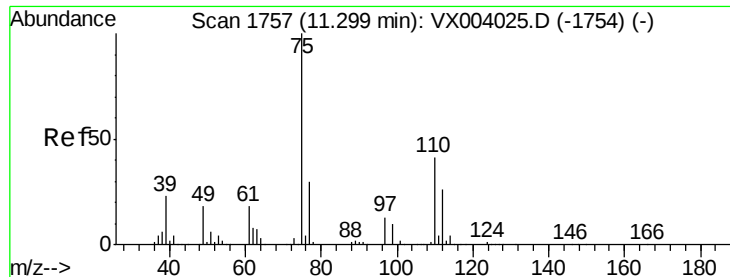
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004084.D
Acq: 15 Aug 2018 20:28

Tgt Ion:152 Resp: 196783
Ion Ratio Lower Upper
152 100
115 55.5 39.1 117.3
150 152.9 0.0 349.2



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





#76

1,2,3-Trichloropropane

Concen: 23.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

Instrument :

MSVOA_X

ClientSampled :

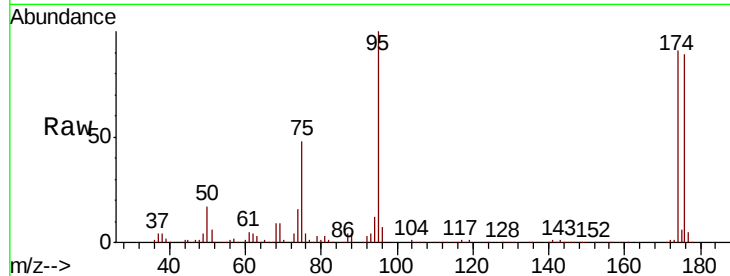
TB4-SRI3

Tot Ion: 75 Resp: 90772

Ion Ratio Lower Upper

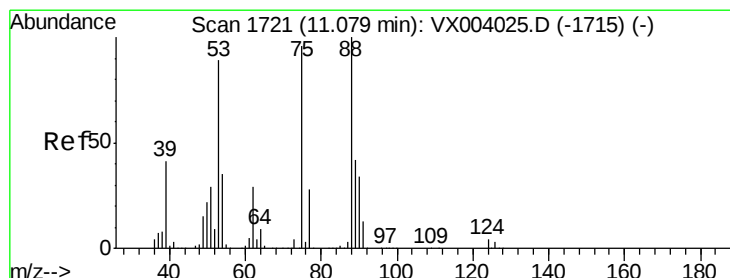
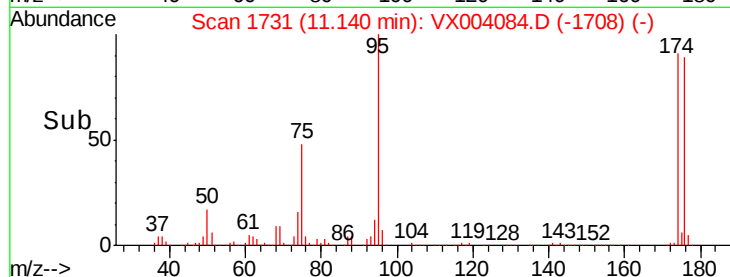
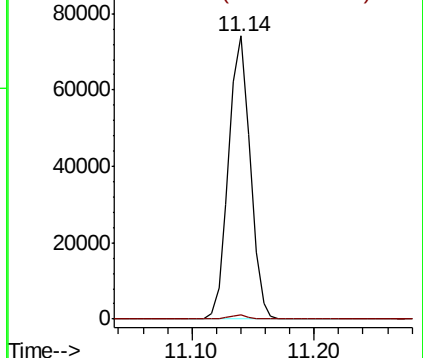
75 100

77 1.4 20.8 62.5#



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: 71.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004084.D

Acq: 15 Aug 2018 20:28

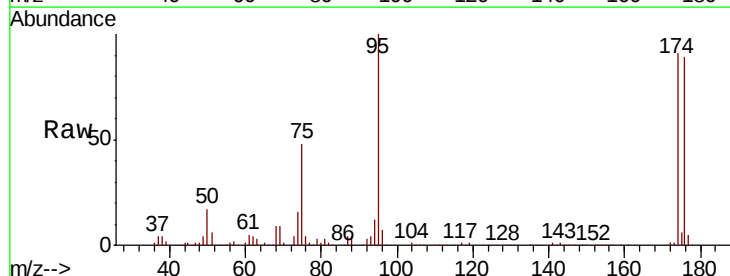
Tgt Ion: 75 Resp: 90772

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

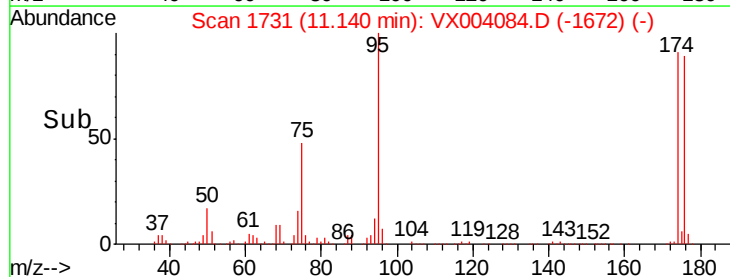
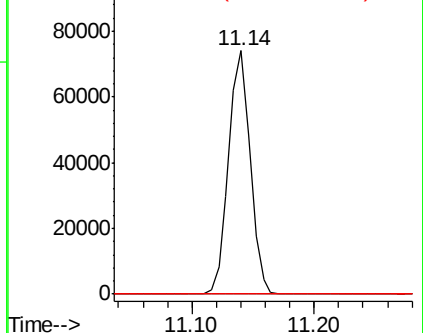
89 0.0 37.8 56.8#

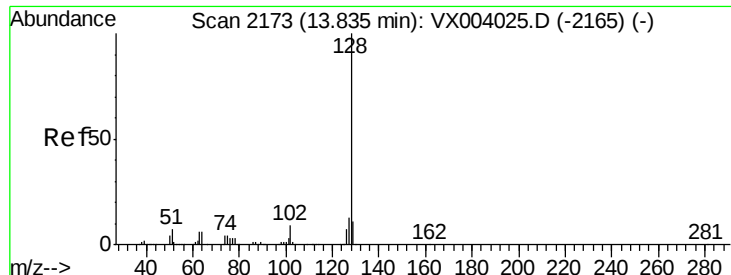


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

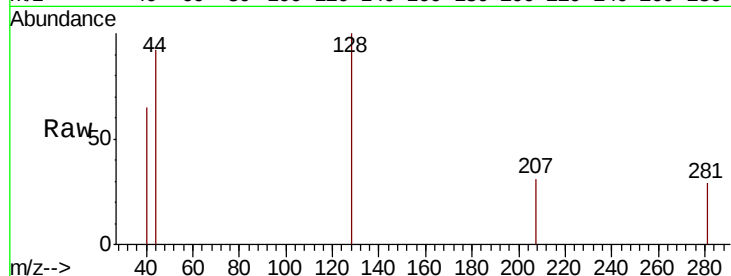




#95
 Naphthalene
 Concen: 1.17 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VX004084.D
 Acq: 15 Aug 2018 20:28

Instrument :
 MSVOA_X
 ClientSampleId :
 TB4-SRI3

Tot Ion:128	Resp:	298
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.2 15.2#
129	0.0	8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

