

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071318\
 Data File : VX003374.D
 Acq On : 13 Jul 2018 21:08
 Operator : JC/MD
 Sample : J3941-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SES-MS-PH4-COA-7-18

Quant Time: Jul 14 02:47:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071318W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 13 17:01:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	274097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	413610	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	388795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207731	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	181726	60.90	ug/l	0.00
Spiked Amount 50.000			Recovery =	121.80%		
35) Dibromofluoromethane	5.51	113	157409	51.71	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.42%		
50) Toluene-d8	8.72	98	593815	59.80	ug/l	0.00
Spiked Amount 50.000			Recovery =	119.60%		
62) 4-Bromofluorobenzene	11.14	95	202332	47.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.46%		

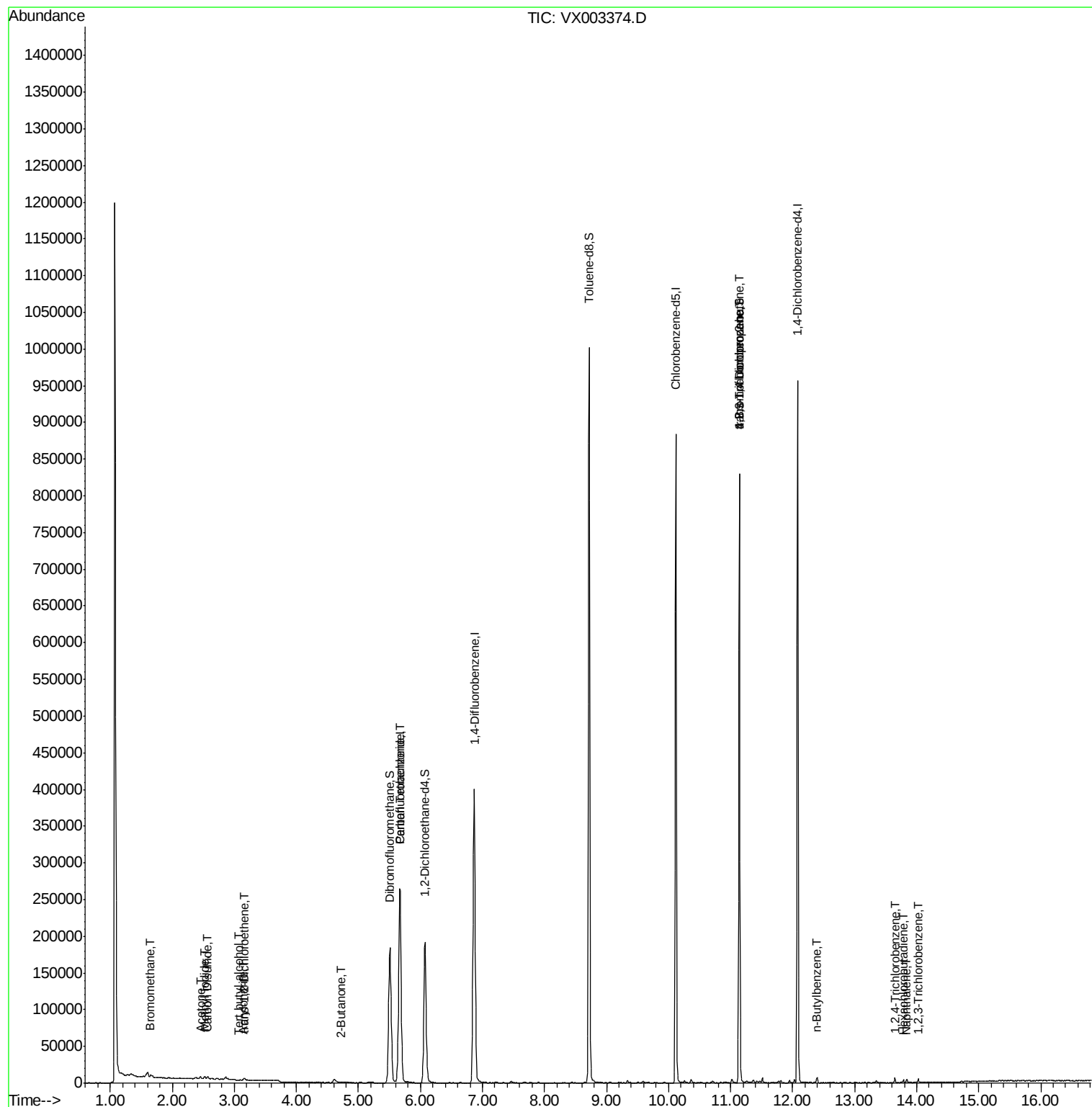
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	323	Below Cal		78
3) Chloromethane	1.32	50	1487	Below Cal		93
5) Bromomethane	1.65	94	3049	1.52	ug/l	87
6) Chloroethane	1.73	64	117	Below Cal	#	39
10) Methyl Iodide	2.52	142	4707	1.41	ug/l	98
11) Tert butyl alcohol	3.08	59	209	0.26	ug/l	# 71
13) Acrolein	2.31	56	556	Below Cal	#	54
15) Acrylonitrile	3.14	53	813	0.41	ug/l	# 76
16) Acetone	2.45	43	3128	2.03	ug/l	91
17) Carbon Disulfide	2.57	76	4255	0.57	ug/l	# 79
20) Methylene Chloride	2.86	84	1515	Below Cal	#	91
21) trans-1,2-Dichloroethene	3.16	96	801	0.25	ug/l	# 74
25) 2-Butanone	4.72	43	573	0.24	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	24003	5.36	ug/l	# 17
76) 1,2,3-Trichloropropane	11.14	75	99910	24.34	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	99910	81.17	ug/l	# 7
89) n-Butylbenzene	12.39	91	2174	0.20	ug/l	94
93) 1,2,4-Trichlorobenzene	13.65	180	1700	0.33	ug/l	98
94) Hexachlorobutadiene	13.79	225	843	0.34	ug/l	90
95) Naphthalene	13.83	128	3002	0.21	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	1448	0.28	ug/l	97

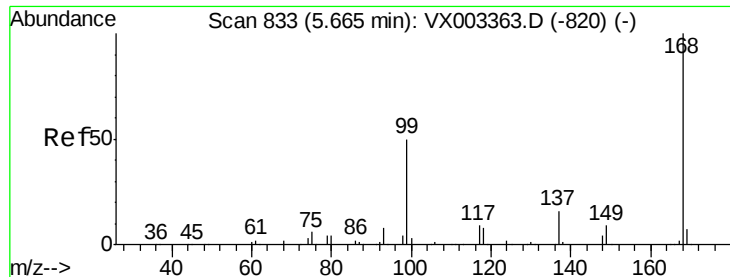
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

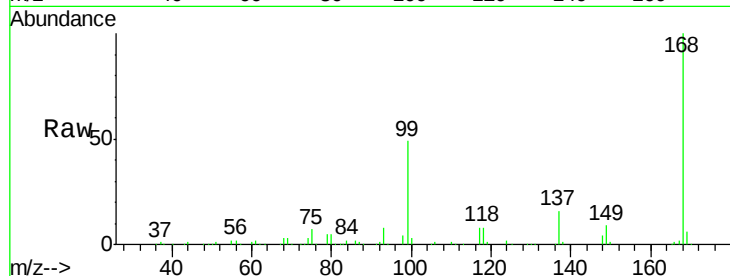
SES-MS-PH4-COA-7-18

Tot Ion:168 Resp: 274097

Ion Ratio Lower Upper

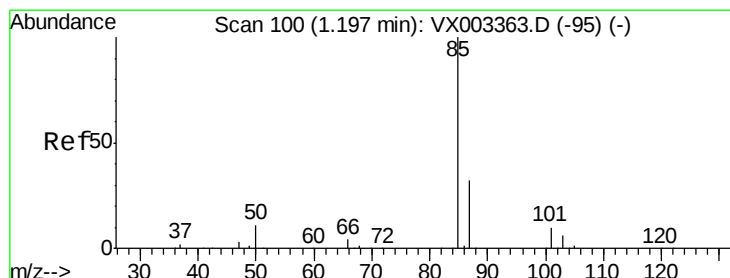
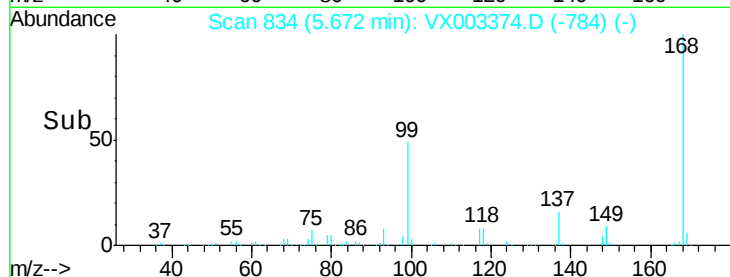
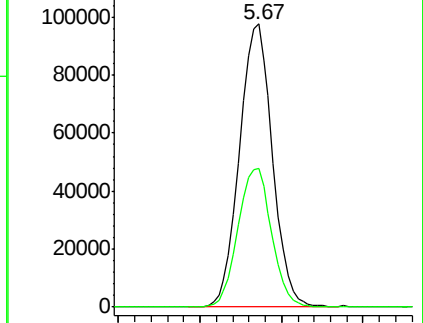
168 100

99 49.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003374.D

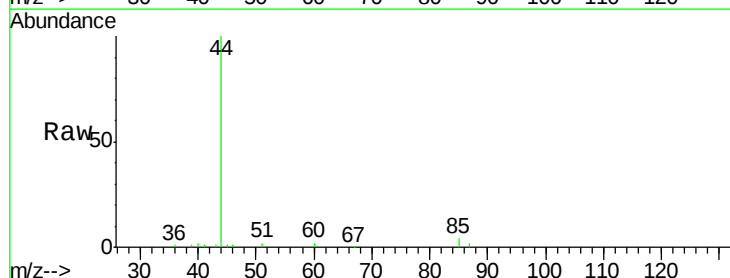
Acq: 13 Jul 2018 21:08

Tgt Ion: 85 Resp: 323

Ion Ratio Lower Upper

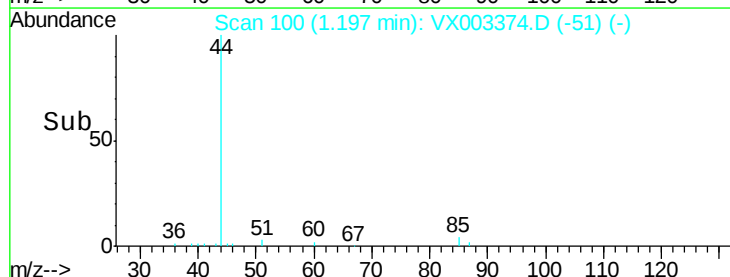
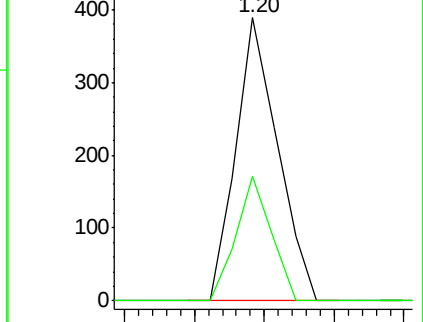
85 100

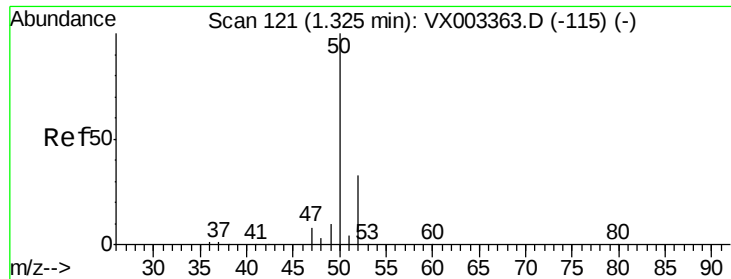
87 44.0 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

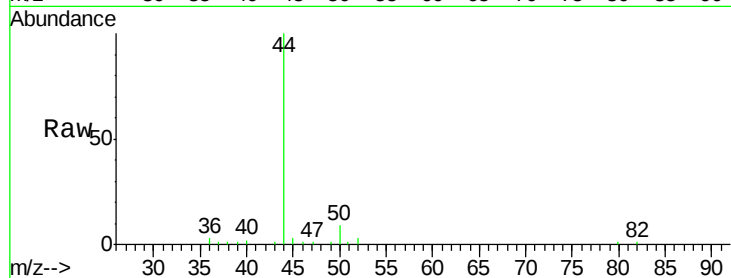
SES-MS-PH4-COA-7-18

Tot Ion: 50 Resp: 1487

Ion Ratio Lower Upper

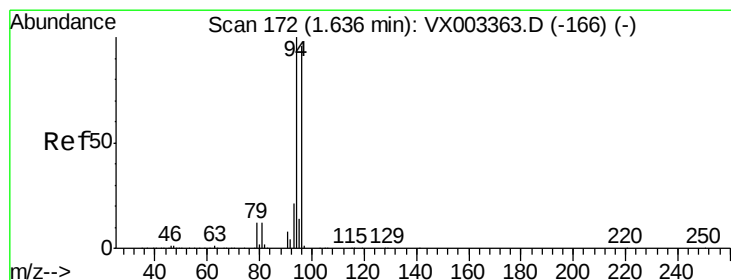
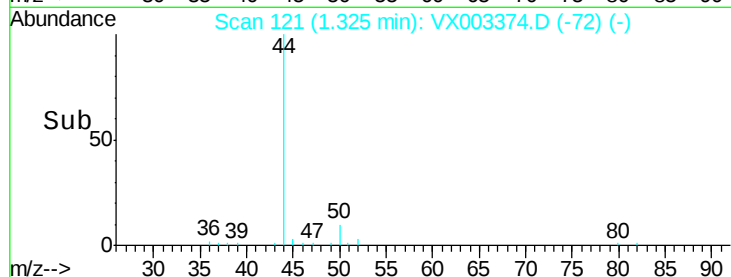
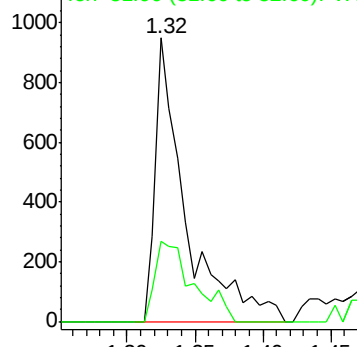
50 100

52 28.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 1.52 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003374.D

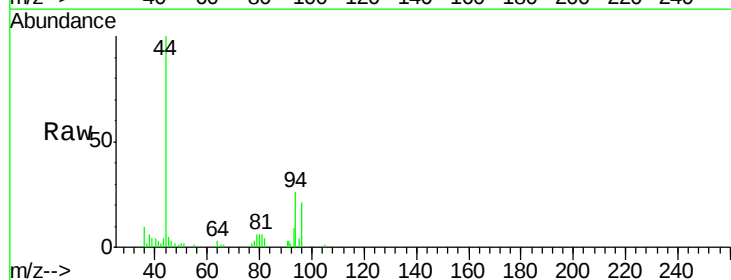
Acq: 13 Jul 2018 21:08

Tgt Ion: 94 Resp: 3049

Ion Ratio Lower Upper

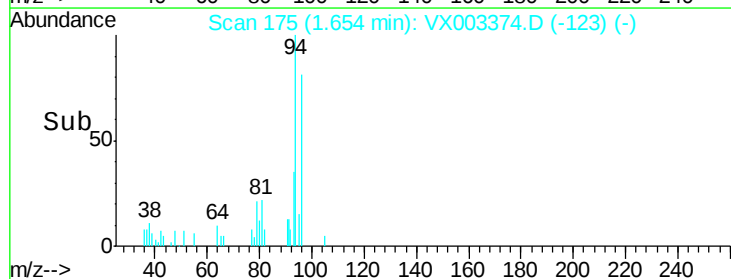
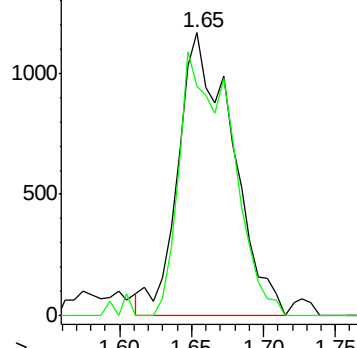
94 100

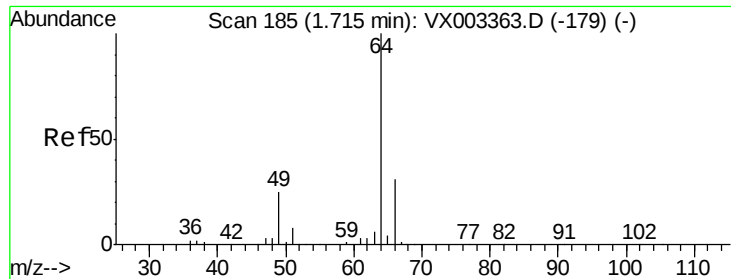
96 80.9 74.9 112.3



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: 1.73 min Scan# 188

Delta R.T. 0.02 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

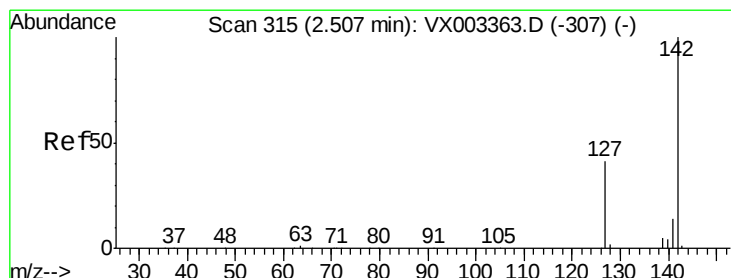
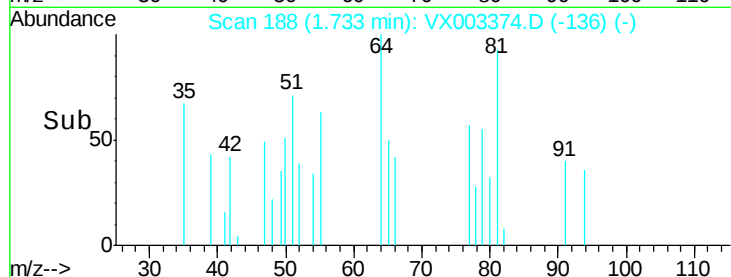
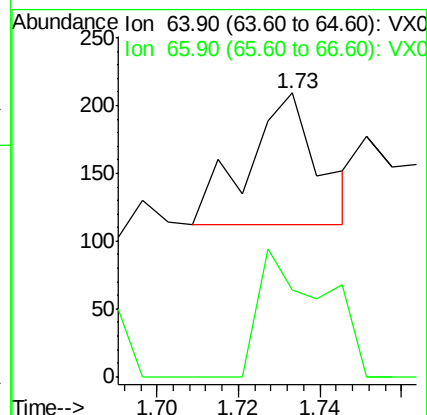
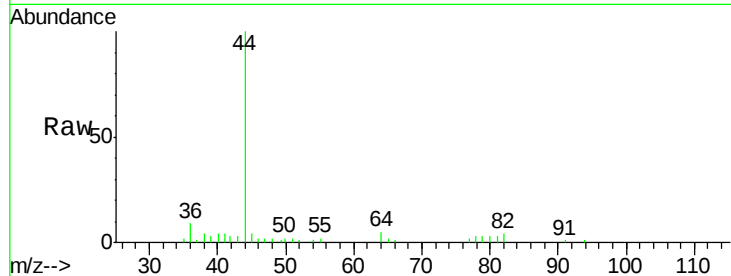
SES-MS-PH4-COA-7-18

Tot Ion: 64 Resp: 117

Ion Ratio Lower Upper

64 100

66 66.0 25.5 38.3#



#10

Methyl Iodide

Concen: 1.41 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

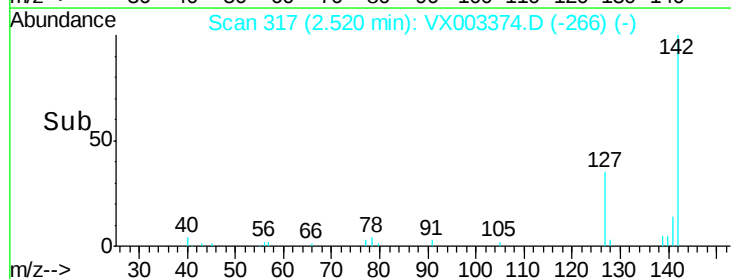
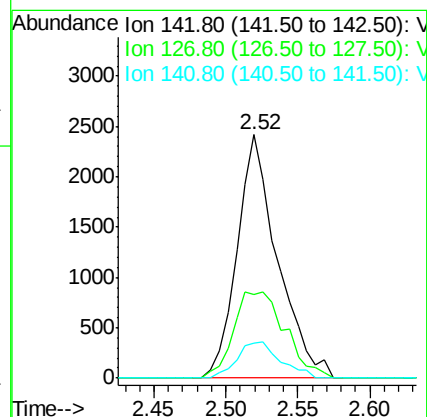
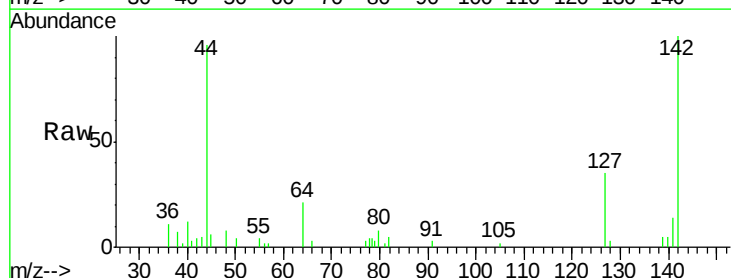
Tgt Ion: 142 Resp: 4707

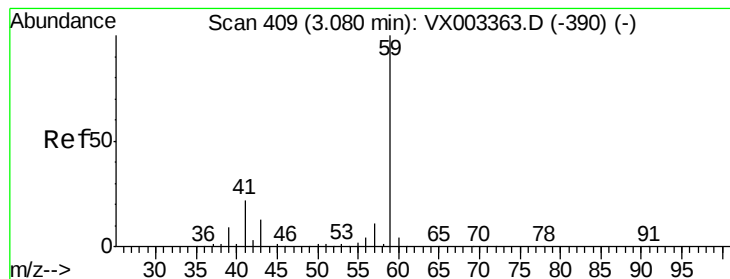
Ion Ratio Lower Upper

142 100

127 45.4 36.6 55.0

141 15.9 11.3 16.9





#11

Tert butyl alcohol

Concen: 0.26 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

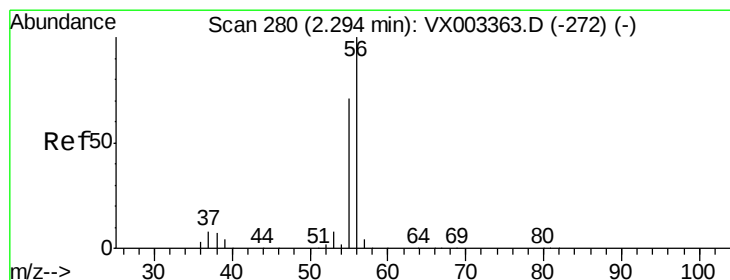
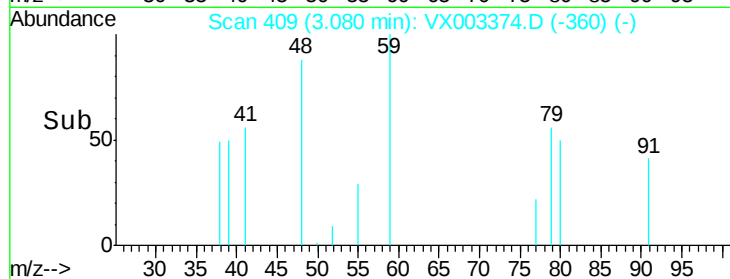
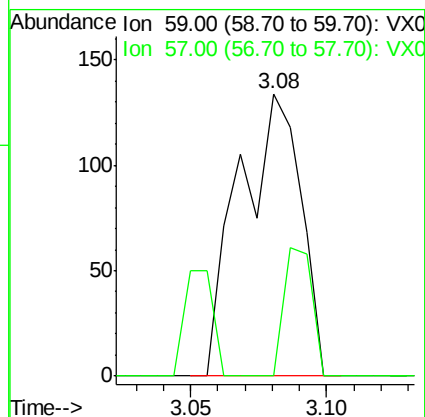
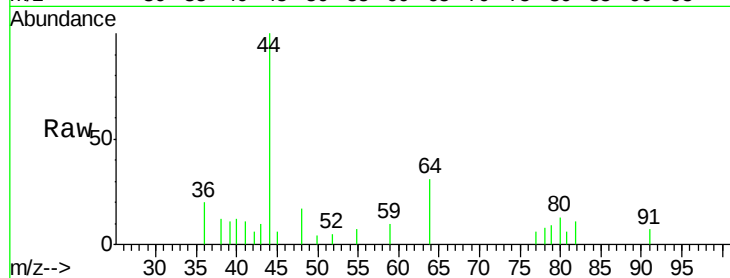
SES-MS-PH4-COA-7-18

Tot Ion: 59 Resp: 209

Ion Ratio Lower Upper

59 100

57 21.1 8.2 12.2#



#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003374.D

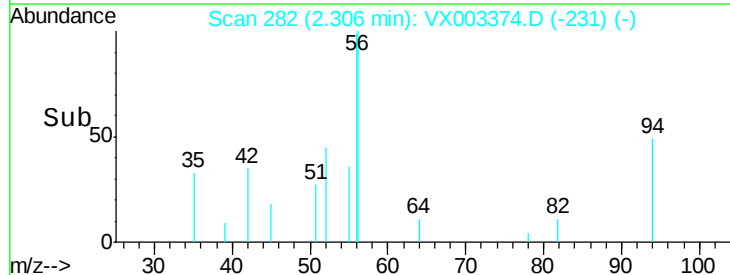
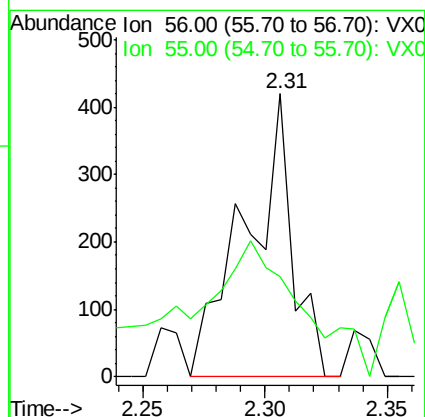
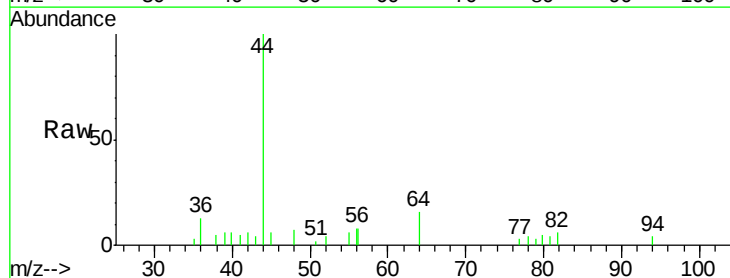
Acq: 13 Jul 2018 21:08

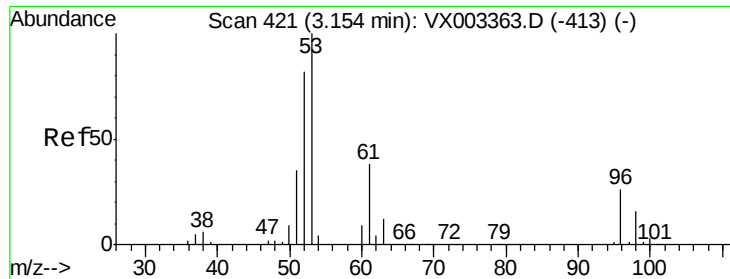
Tgt Ion: 56 Resp: 556

Ion Ratio Lower Upper

56 100

55 109.4 57.0 85.4#





#15

Acrylonitrile

Concen: 0.41 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

SES-MS-PH4-COA-7-18

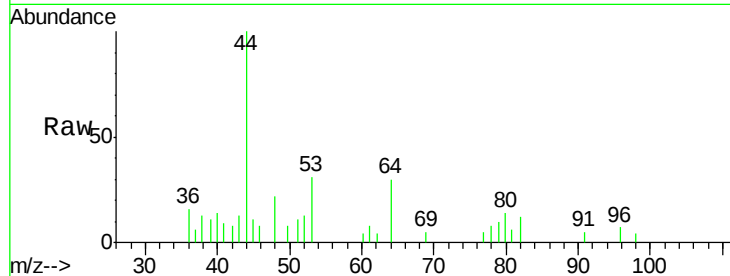
Tot Ion: 53 Resp: 813

Ion Ratio Lower Upper

53 100

52 94.8 66.7 100.1

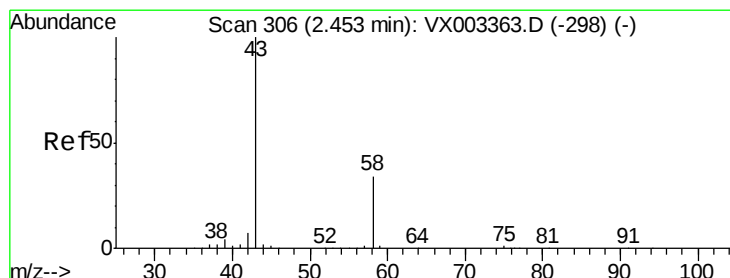
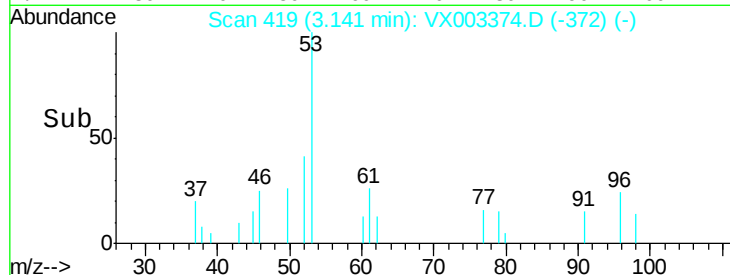
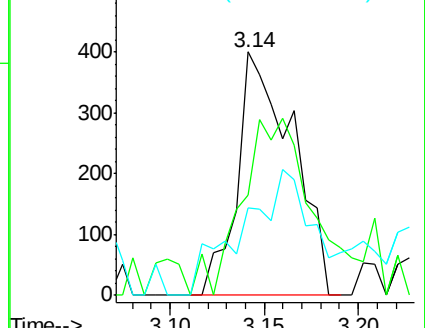
51 66.9 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 2.03 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003374.D

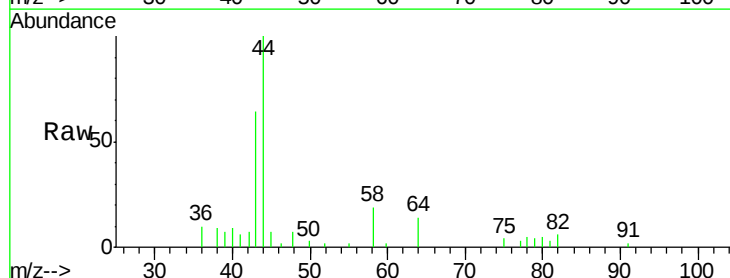
Acq: 13 Jul 2018 21:08

Tgt Ion: 43 Resp: 3128

Ion Ratio Lower Upper

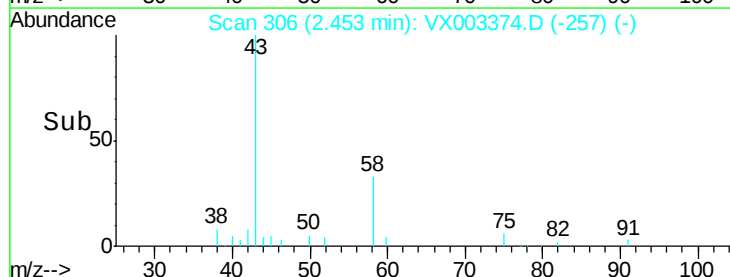
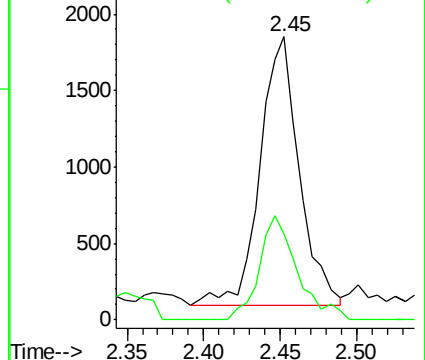
43 100

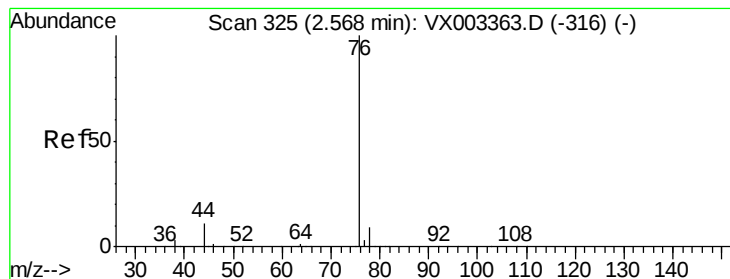
58 32.2 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.57 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

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ClientSampleId :

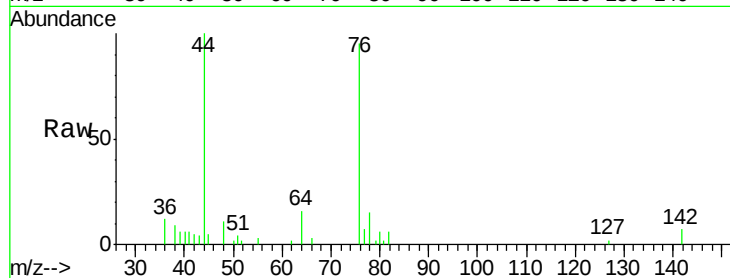
SES-MS-PH4-COA-7-18

Tot Ion: 76 Resp: 4255

Ion Ratio Lower Upper

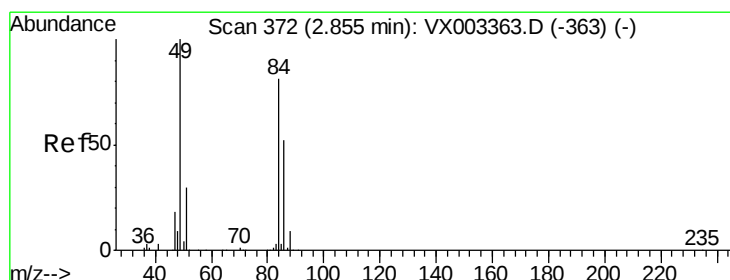
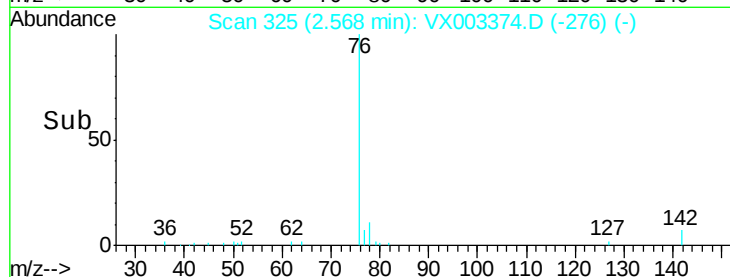
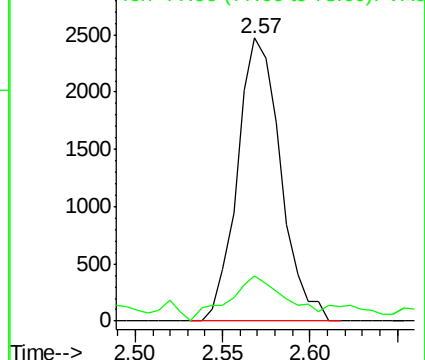
76 100

78 16.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Tgt Ion: 84 Resp: 1515

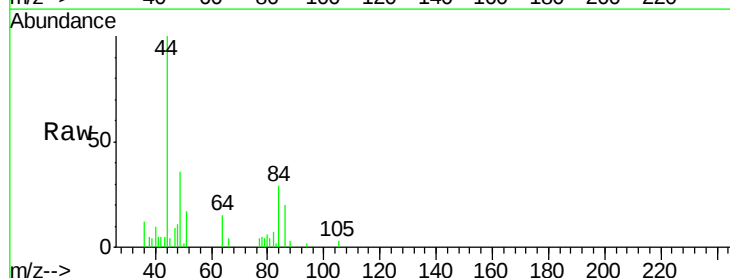
Ion Ratio Lower Upper

84 100

49 123.9 107.8 161.6

51 50.0 32.8 49.2#

86 68.7 52.5 78.7

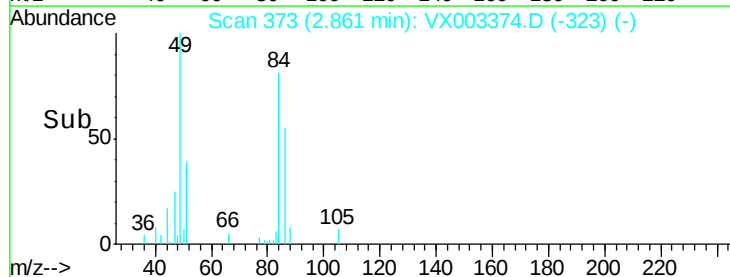
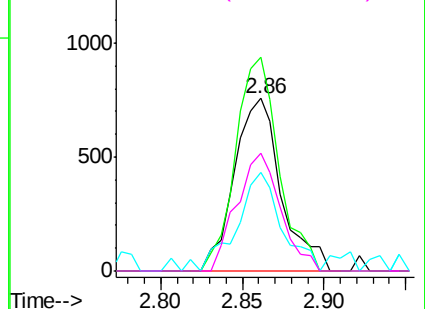


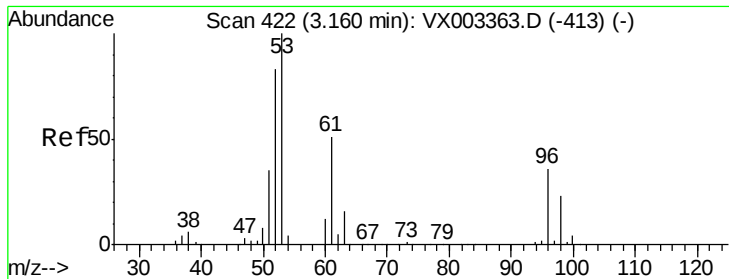
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#21

trans-1,2-Dichloroethene

Concen: 0.25 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

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ClientSampleId :

SES-MS-PH4-COA-7-18

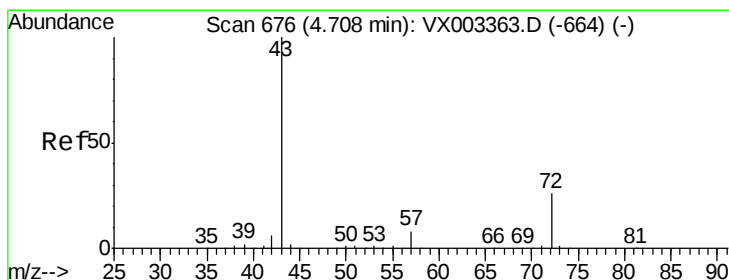
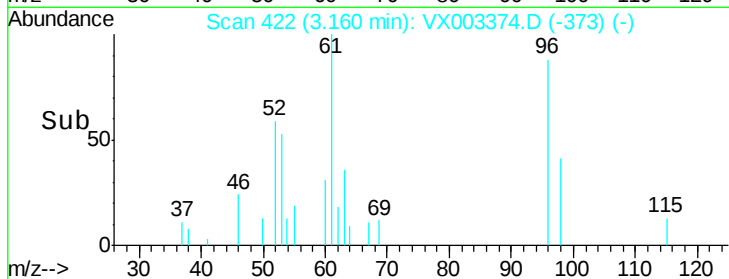
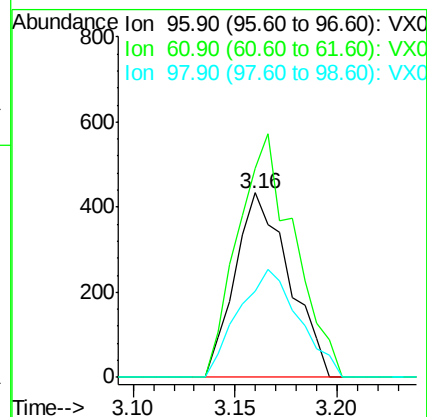
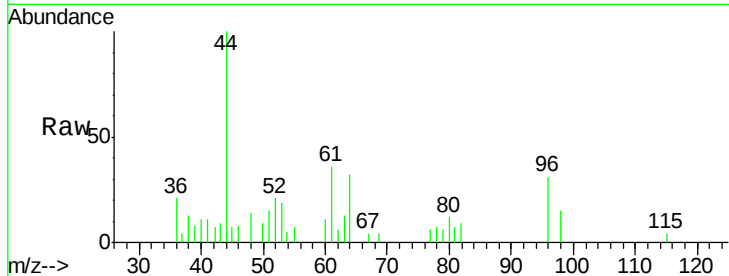
Tot Ion: 96 Resp: 801

Ion Ratio Lower Upper

96 100

61 113.2 117.0 175.4#

98 46.7 52.4 78.6#



#25

2-Butanone

Concen: 0.24 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003374.D

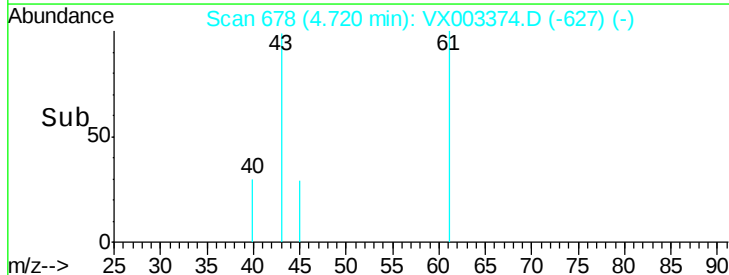
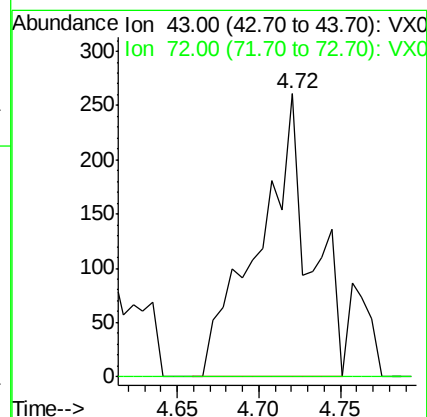
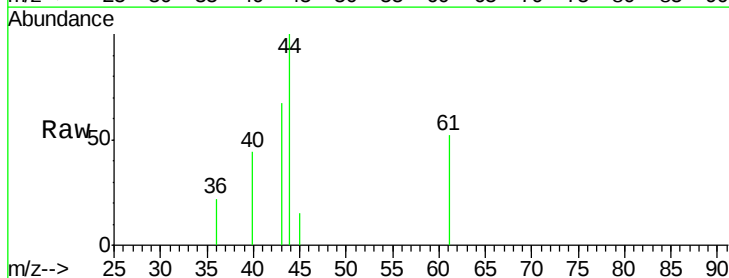
Acq: 13 Jul 2018 21:08

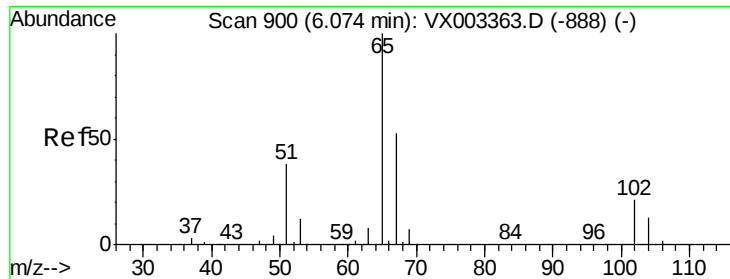
Tgt Ion: 43 Resp: 573

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#

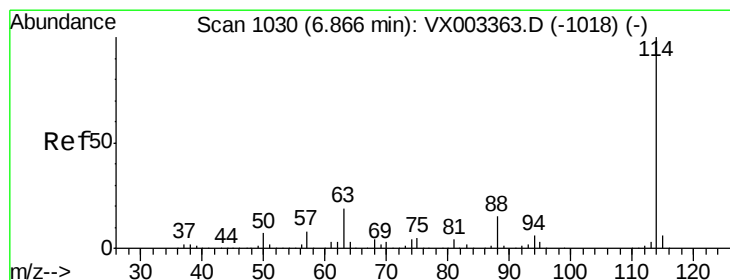
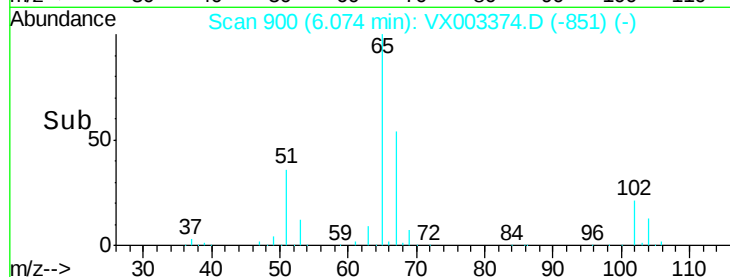
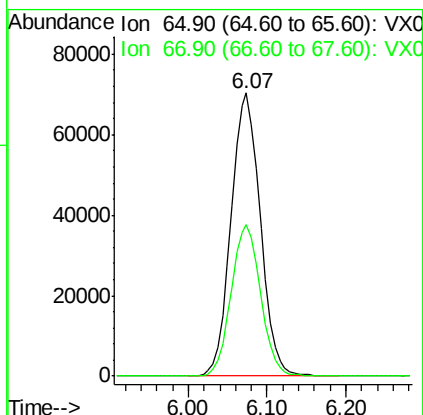
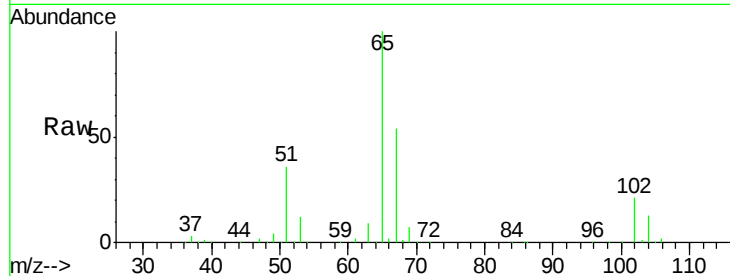




#33
 1,2-Dichloroethane-d4
 Concen: 60.90 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003374.D
 Acq: 13 Jul 2018 21:08

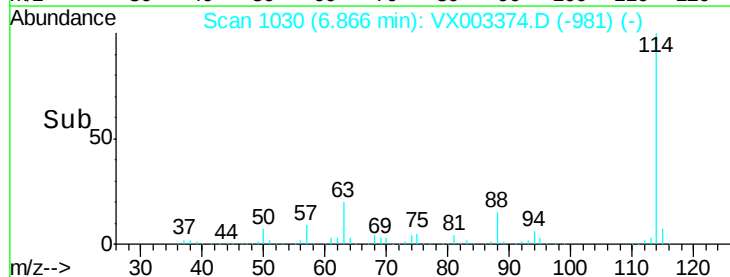
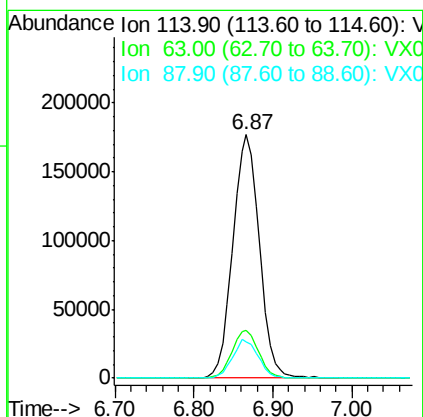
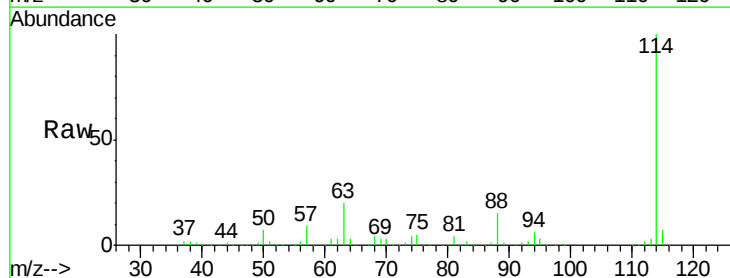
Instrument :
 MSVOA_X
 ClientSampleId :
 SES-MS-PH4-COA-7-18

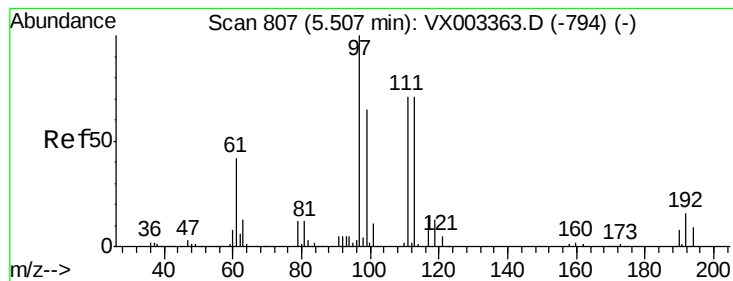
Tot Ion: 65 Resp: 181726
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003374.D
 Acq: 13 Jul 2018 21:08

Tgt Ion: 114 Resp: 413610
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 41.4
 88 14.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 51.71 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

SES-MS-PH4-COA-7-18

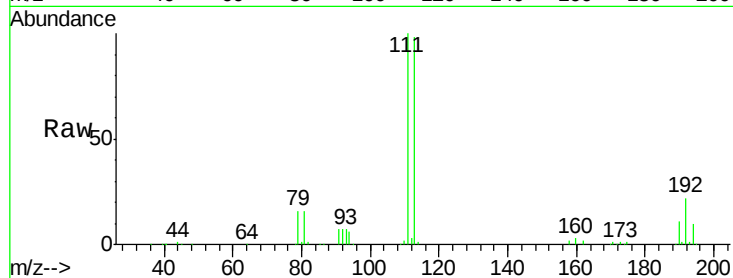
Tot Ion:113 Resp: 157409

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

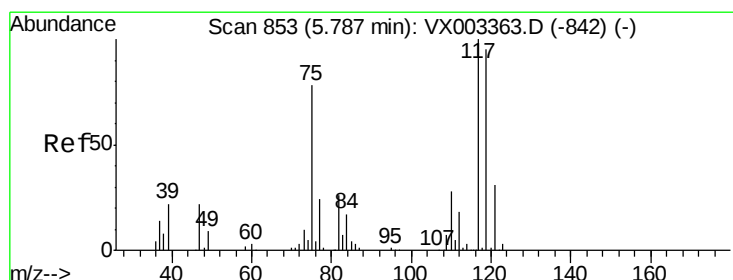
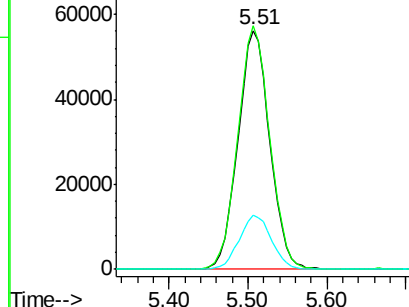
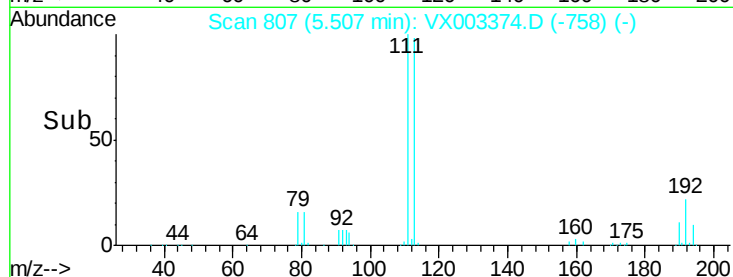
192 23.0 19.1 28.7



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



#38

Carbon Tetrachloride

Concen: 5.36 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

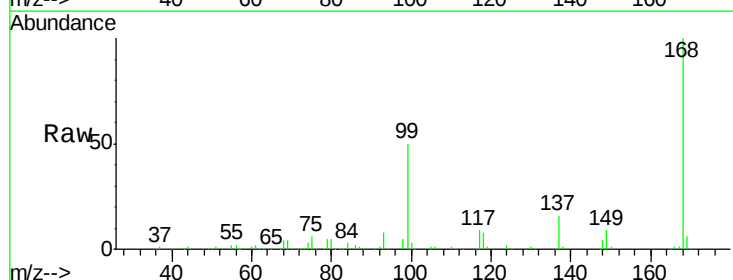
Tgt Ion:117 Resp: 24003

Ion Ratio Lower Upper

117 100

119 6.7 77.4 116.0#

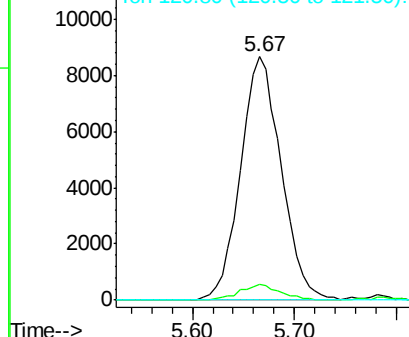
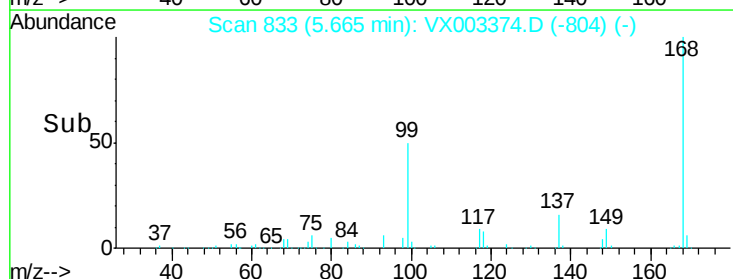
121 0.0 24.4 36.6#

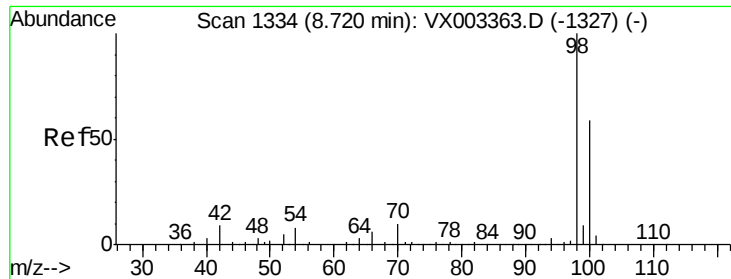


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 59.80 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

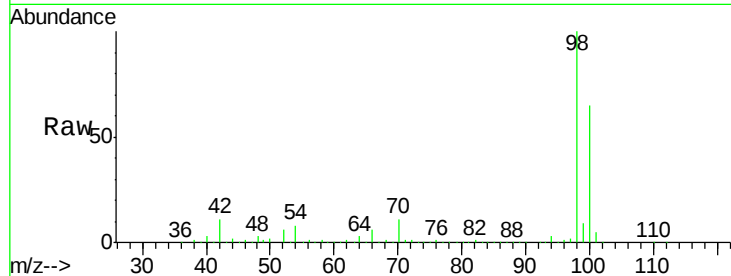
SES-MS-PH4-COA-7-18

Tot Ion: 98 Resp: 593815

Ion Ratio Lower Upper

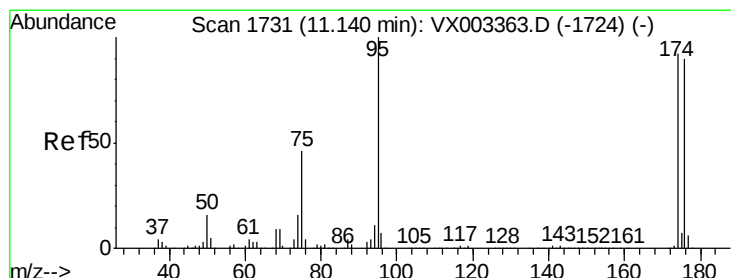
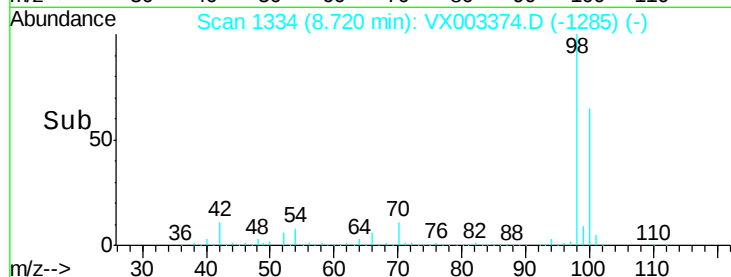
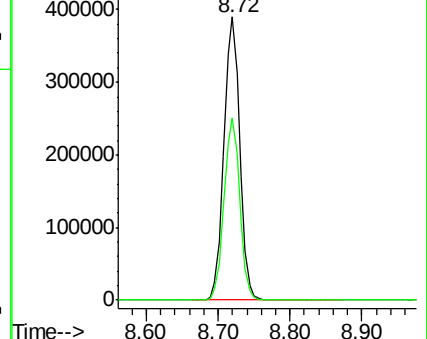
98 100

100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 47.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

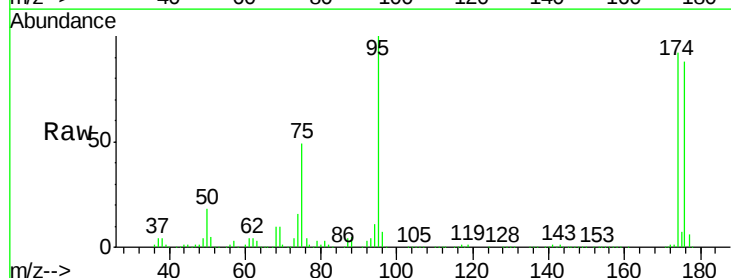
Tgt Ion: 95 Resp: 202332

Ion Ratio Lower Upper

95 100

174 94.2 0.0 187.4

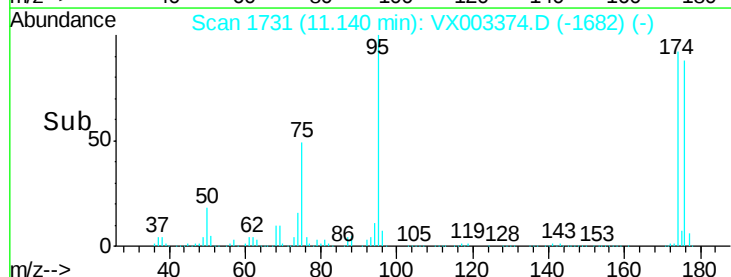
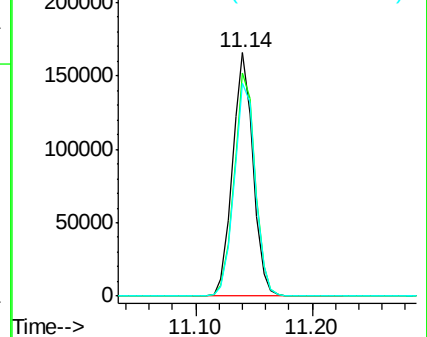
176 91.0 0.0 181.0

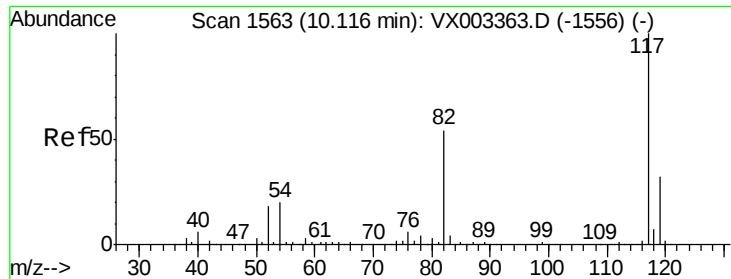


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

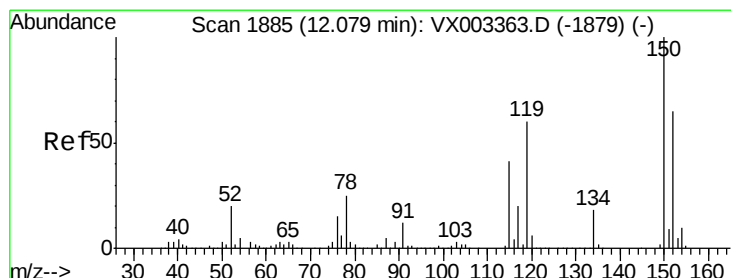
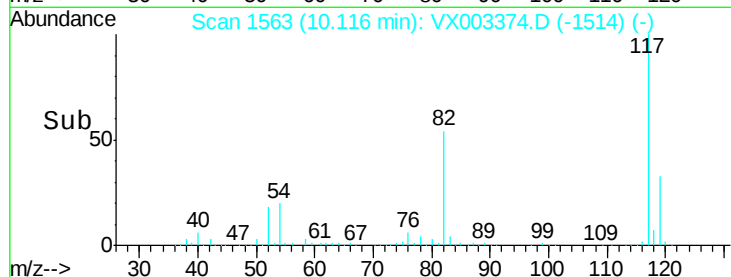
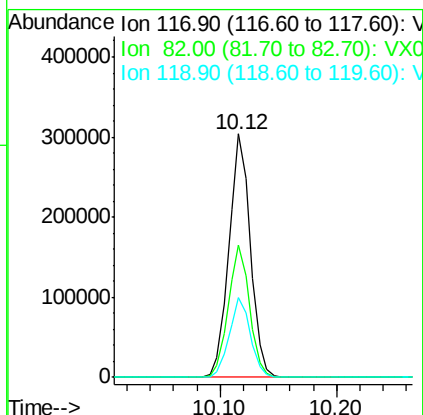
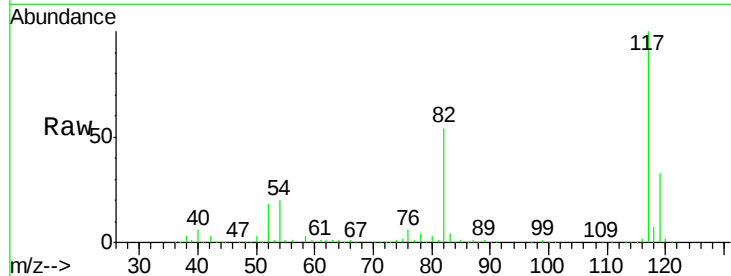




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003374.D
Acq: 13 Jul 2018 21:08

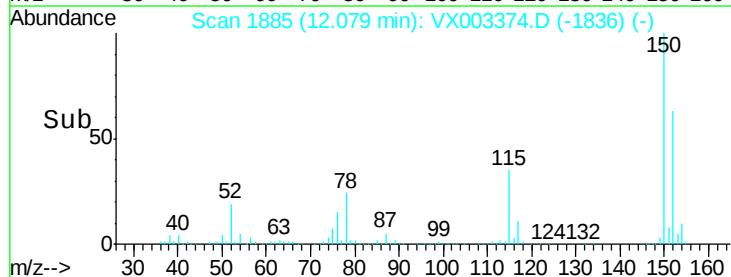
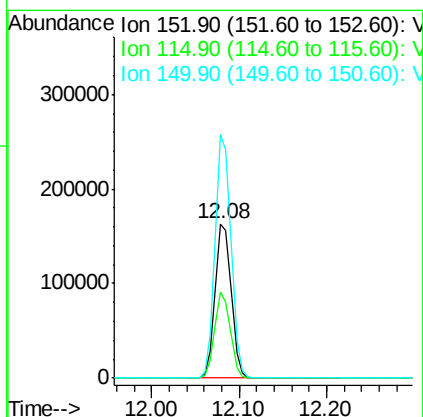
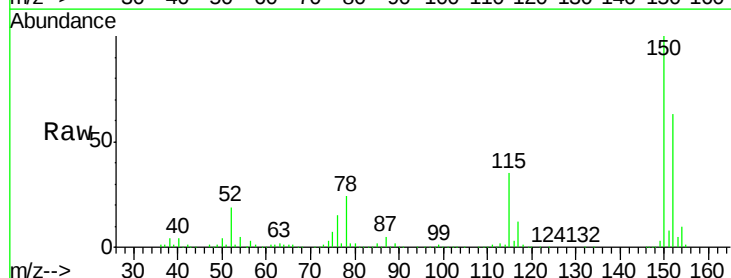
Instrument :
MSVOA_X
ClientSampleId :
SES-MS-PH4-COA-7-18

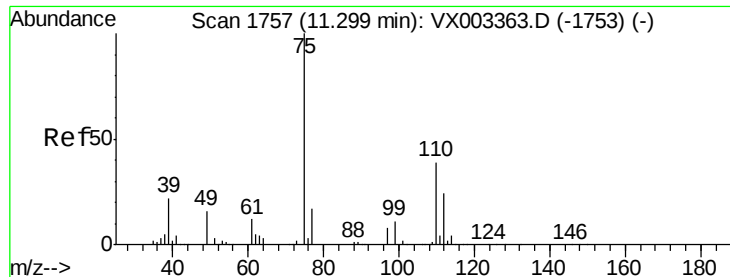
Tot Ion:117 Resp: 388795
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003374.D
Acq: 13 Jul 2018 21:08

Tgt Ion:152 Resp: 207731
Ion Ratio Lower Upper
152 100
115 54.3 40.1 120.2
150 155.6 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 24.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

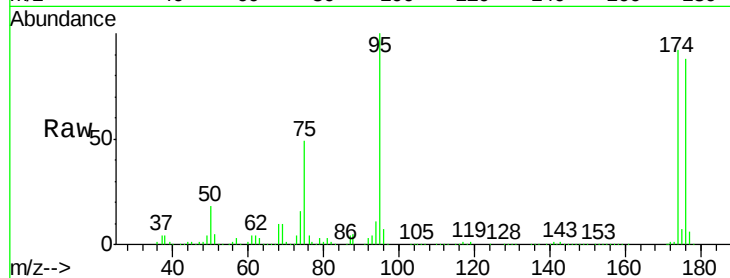
SES-MS-PH4-COA-7-18

Tot Ion: 75 Resp: 99910

Ion Ratio Lower Upper

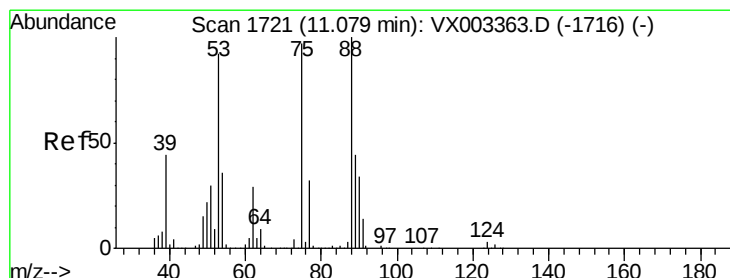
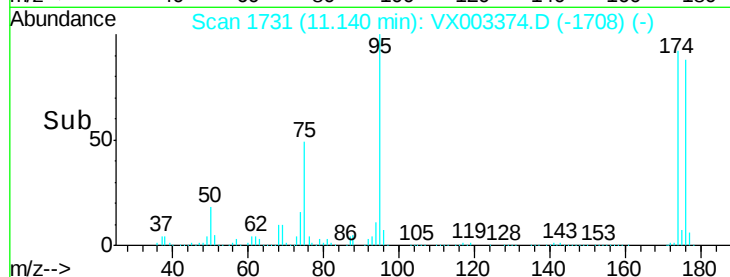
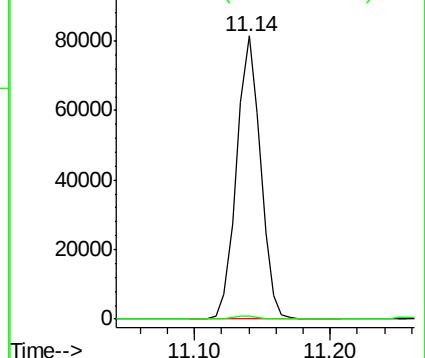
75 100

77 1.2 22.8 68.3#



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: 81.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

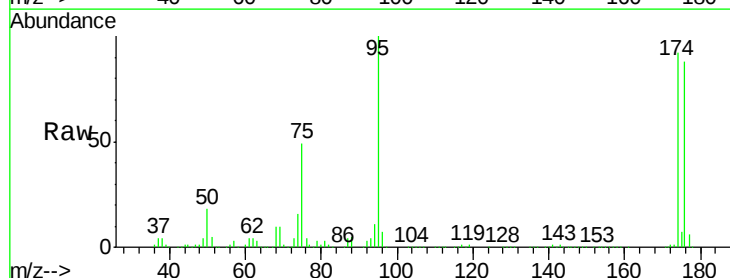
Tgt Ion: 75 Resp: 99910

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

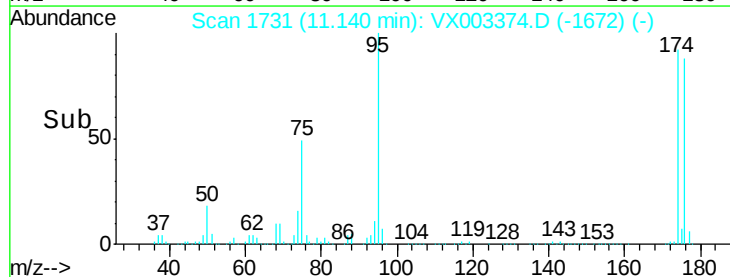
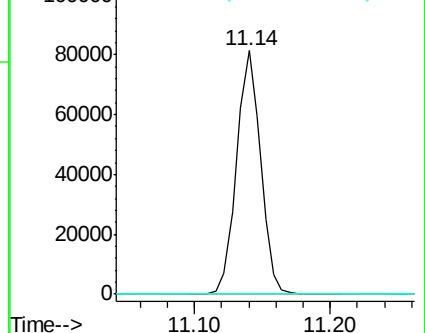
89 0.0 38.2 57.2#

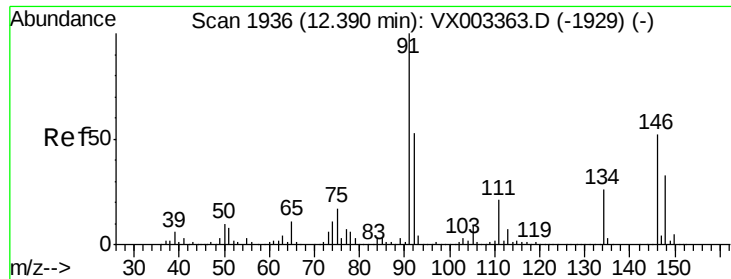


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#89

n-Butylbenzene

Concen: 0.20 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

SES-MS-PH4-COA-7-18

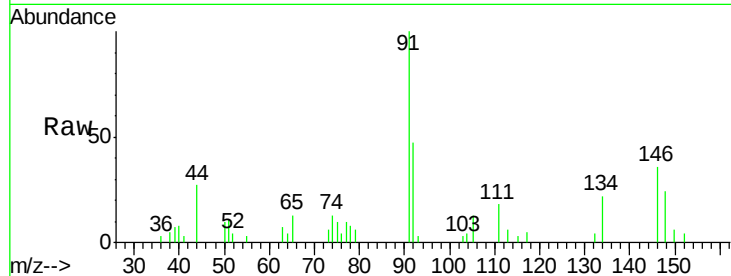
Tot Ion: 91 Resp: 2174

Ion Ratio Lower Upper

91 100

92 47.3 26.0 78.0

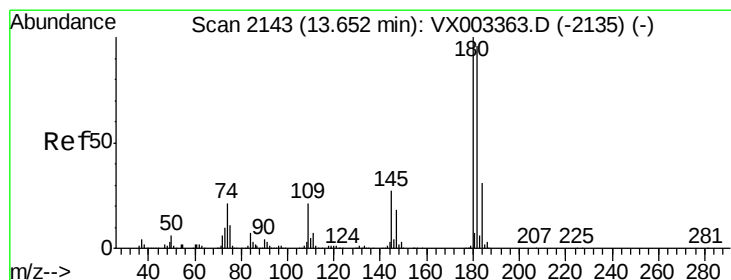
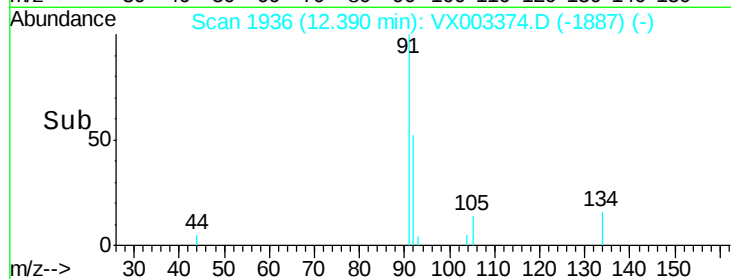
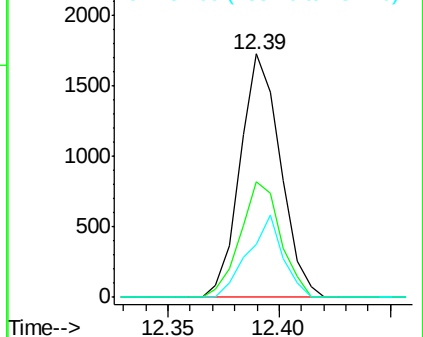
134 28.9 13.5 40.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V



#93

1,2,4-Trichlorobenzene

Concen: 0.33 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.01 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

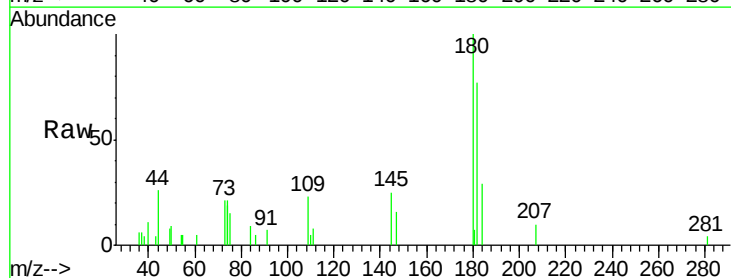
Tgt Ion: 180 Resp: 1700

Ion Ratio Lower Upper

180 100

182 93.7 47.7 143.1

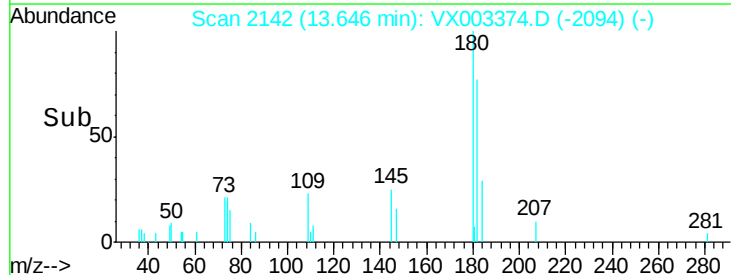
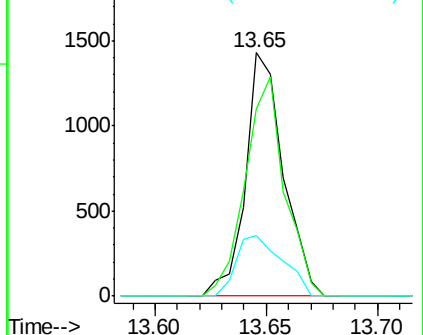
145 29.9 14.1 42.4

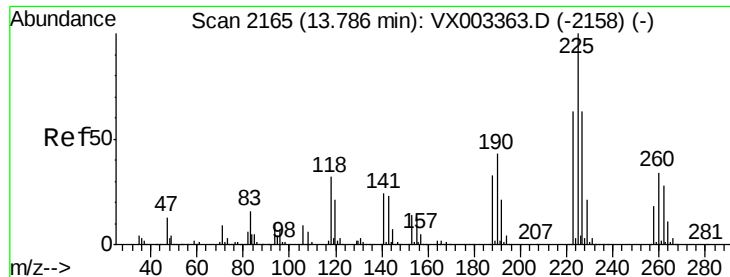


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.34 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

Instrument :

MSVOA_X

ClientSampleId :

SES-MS-PH4-COA-7-18

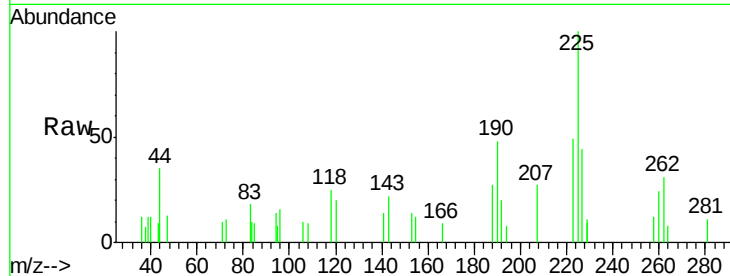
Tot Ion:225 Resp: 843

Ion Ratio Lower Upper

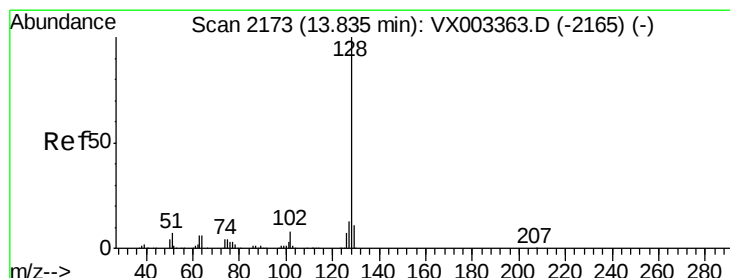
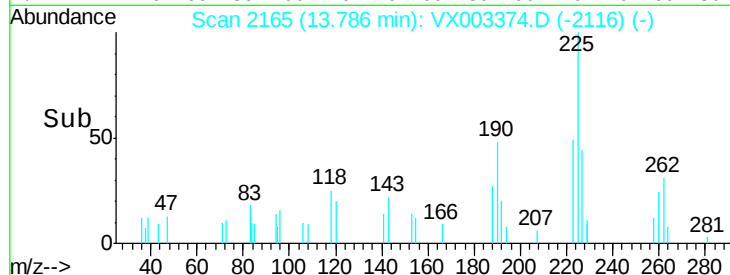
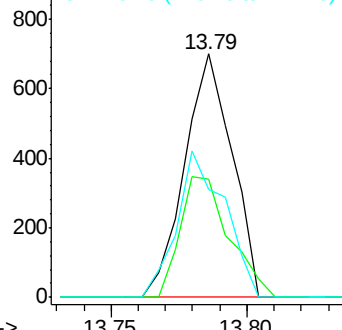
225 100

223 51.5 31.6 95.0

227 60.5 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003374.D

Acq: 13 Jul 2018 21:08

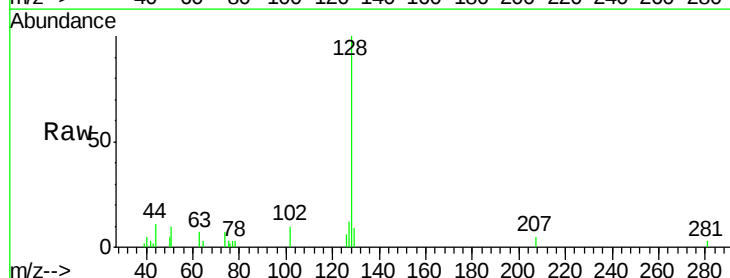
Tgt Ion:128 Resp: 3002

Ion Ratio Lower Upper

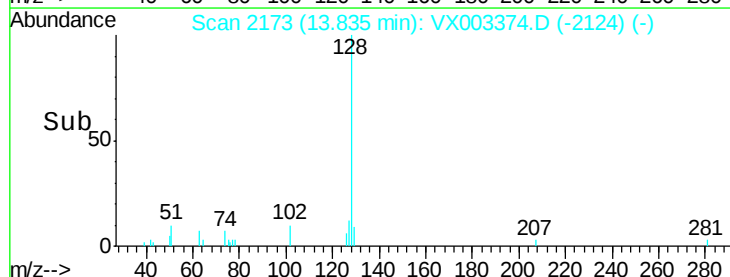
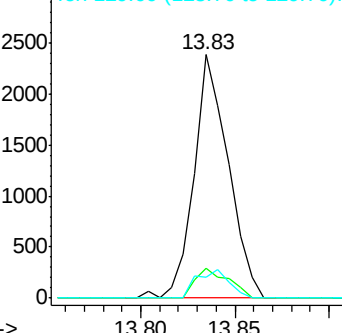
128 100

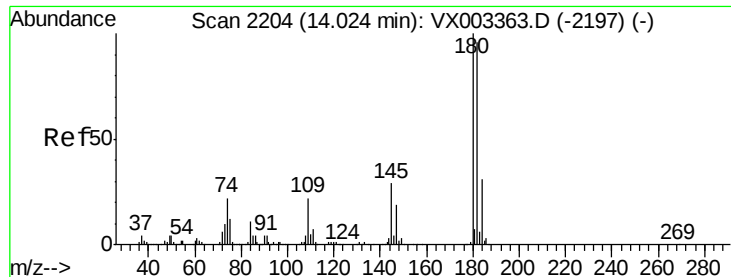
127 11.9 10.4 15.6

129 11.1 8.6 13.0



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

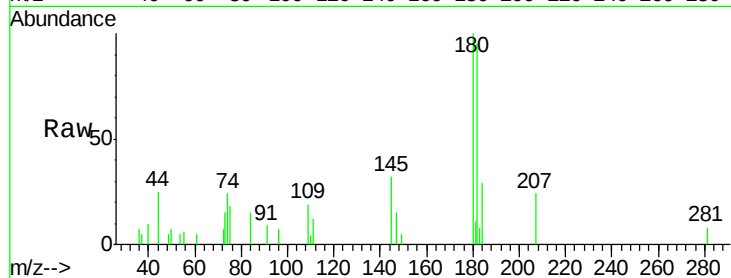




#96
 1,2,3-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003374.D
 Acq: 13 Jul 2018 21:08

Instrument :
 MSVOA_X
 ClientSampleId :
 SES-MS-PH4-COA-7-18

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.9	48.0	144.0
145	28.8	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

