

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008497.D
 Acq On : 27 Mar 2019 20:53
 Operator : JC/SP
 Sample : K2103-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-3H-A

Quant Time: Mar 28 02:11:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35258	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	206614	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	176217	30.00	ug/l	0.00

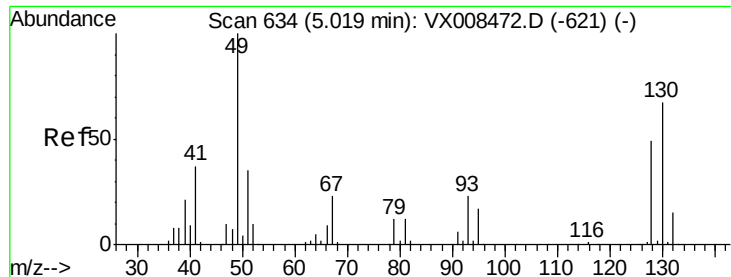
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	89756	30.43	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery	=	101.43%	
60) 4-Bromofluorobenzene	11.13	95	88081	28.69	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery	=	95.63%	
63) Toluene-d8	8.71	98	256738	30.69	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery	=	102.30%	

Target Compounds

					Ovalue	
12) Methyl Acetate	2.78	43	853	0.471	ug/l	97
15) Acetone	2.44	58	6801	13.182	ug/l	98
18) Methylene Chloride	2.85	84	1428	0.535	ug/l #	84
30) 2-Butanone	4.69	43	4457	1.744	ug/l #	78
45) 1,4-Dioxane	7.59	88	43	0.581	ug/l #	42
51) Ethyl methacrylate	8.71	69	1046	0.217	ug/l	90
56) Bromoform	11.14	173	704	0.379	ug/l #	1
58) 4-Methyl-2-Pentanone	8.65	43	1989	0.428	ug/l #	95
62) Toluene	8.79	91	7677	0.720	ug/l	93
66) Ethyl Benzene	10.25	91	7473	0.631	ug/l	91
67) m/p-Xylenes	10.35	106	11593	2.684	ug/l	90
68) o-Xylene	10.70	106	5441	1.287	ug/l	94
69) Styrene	10.71	104	2212	0.301	ug/l #	66
79) tert-butylbenzene	12.06	119	14368	1.475	ug/l	95
82) p-Isopropyltoluene	12.06	119	14368	1.475	ug/l	95
91) Naphthalene	13.83	128	5004	0.446	ug/l	98

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

MH-C05-SETTLED-3H-A

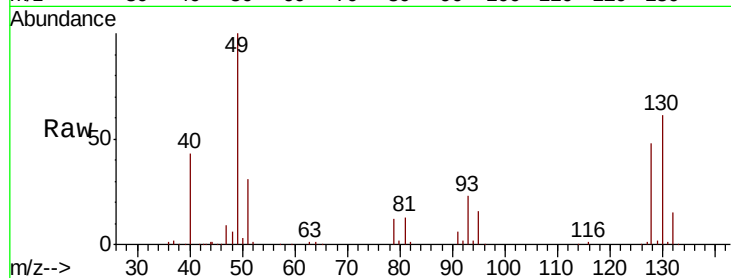
Tot Ion:128 Resp: 35258

Ion Ratio Lower Upper

128 100

49 206.6 0.0 350.8

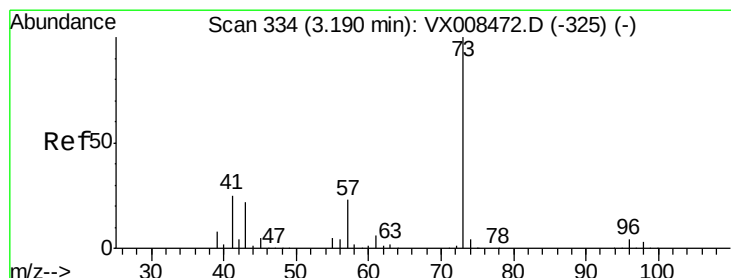
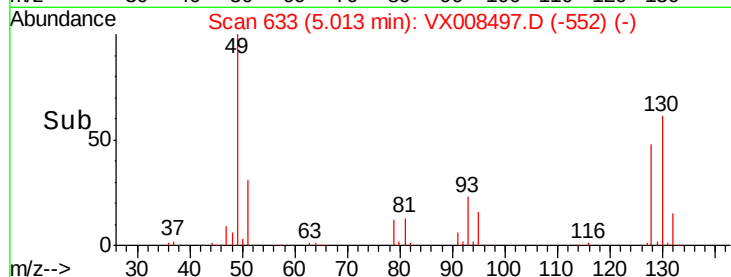
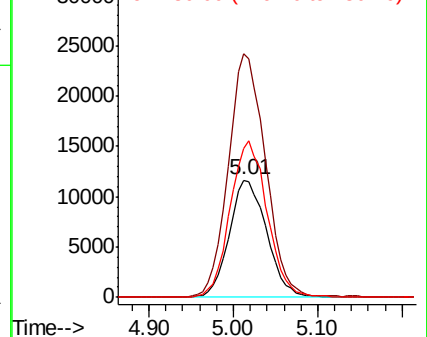
130 131.8 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.471 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.41 min

Lab File: VX008497.D

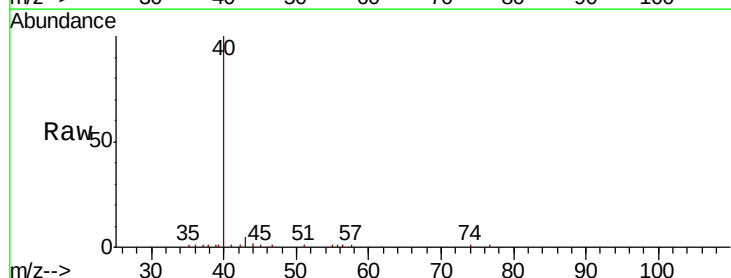
Acq: 27 Mar 2019 20:53

Tgt Ion: 43 Resp: 853

Ion Ratio Lower Upper

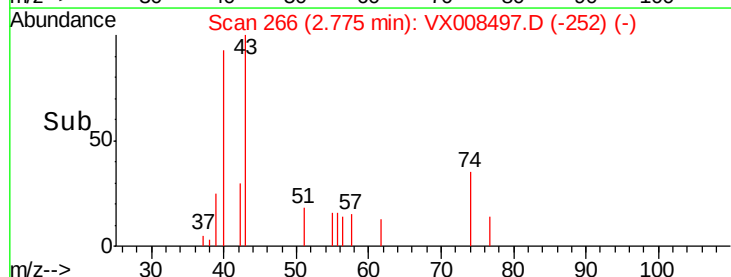
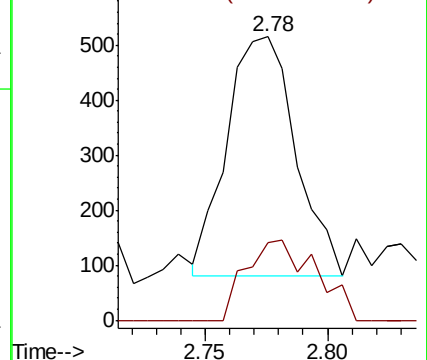
43 100

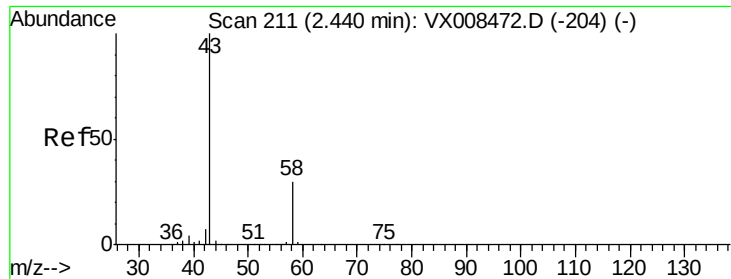
74 25.7 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#15

Acetone

Concen: 13.182 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

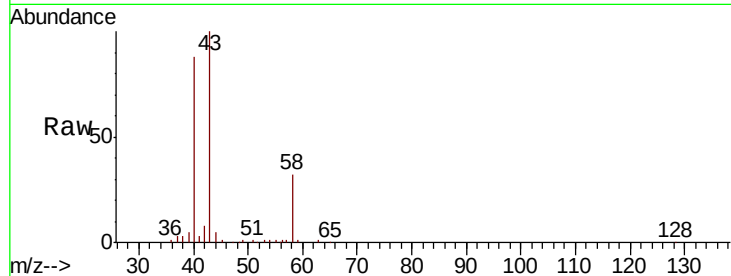
MH-C05-SETTLED-3H-A

Tot Ion: 58 Resp: 6801

Ion Ratio Lower Upper

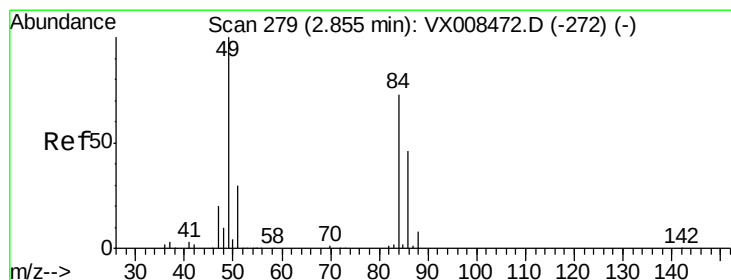
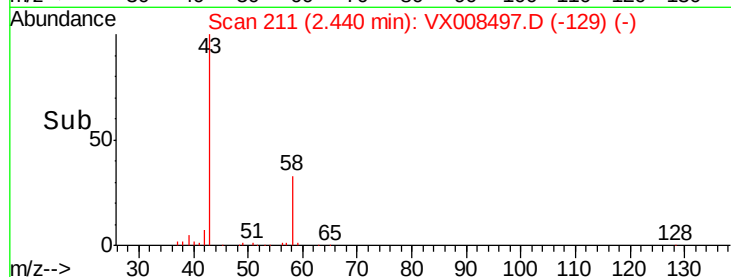
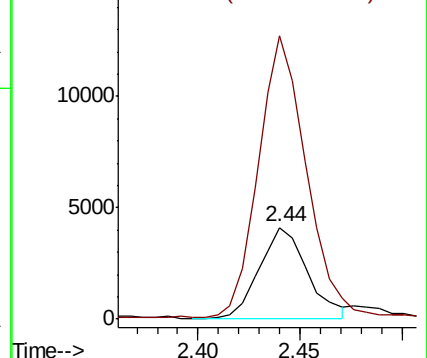
58 100

43 307.2 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.535 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Tgt Ion: 84 Resp: 1428

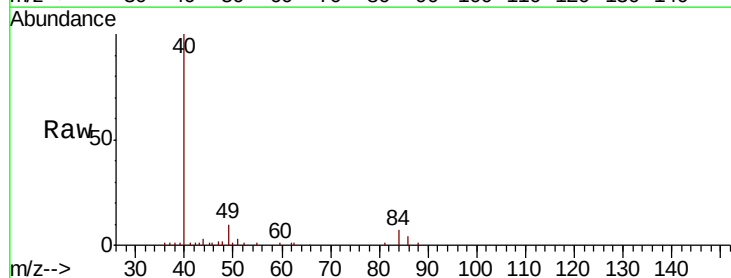
Ion Ratio Lower Upper

84 100

49 141.9 96.1 144.1

51 48.8 29.1 43.7#

86 62.2 47.3 70.9

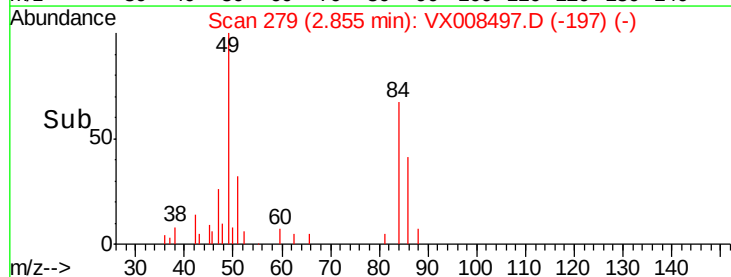
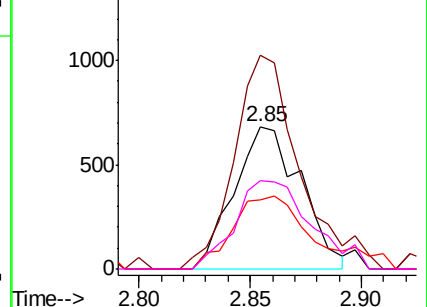


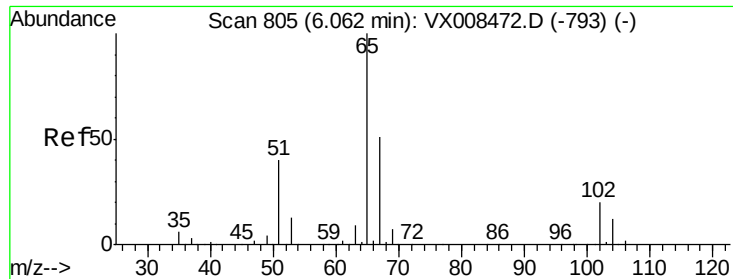
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 30.431 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

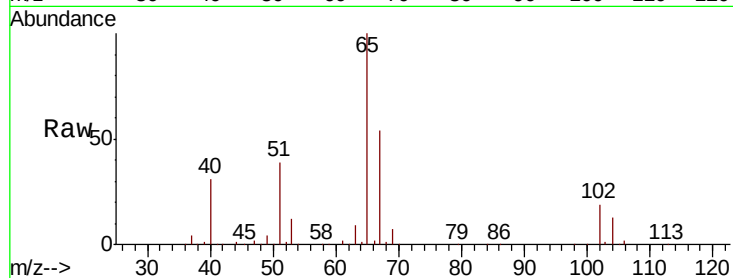
MH-C05-SETTLED-3H-A

Tot Ion: 65 Resp: 89756

Ion Ratio Lower Upper

65 100

67 54.2 42.9 64.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.06

30000

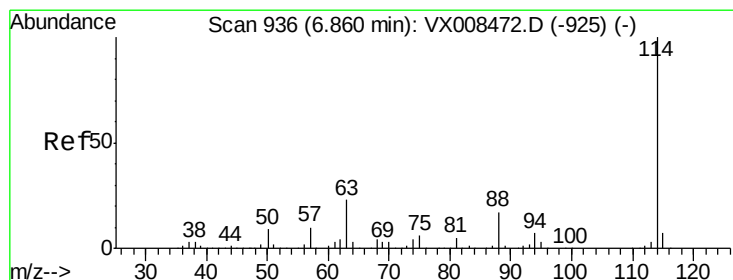
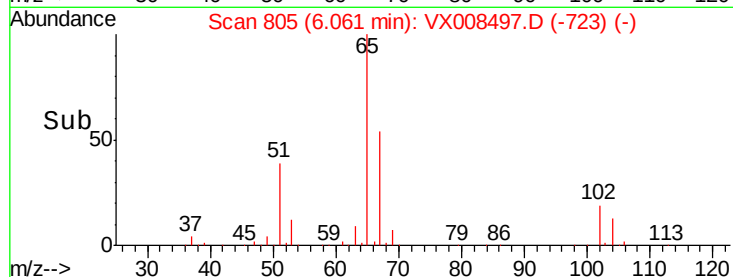
20000

10000

0

Time-->

6.00 6.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

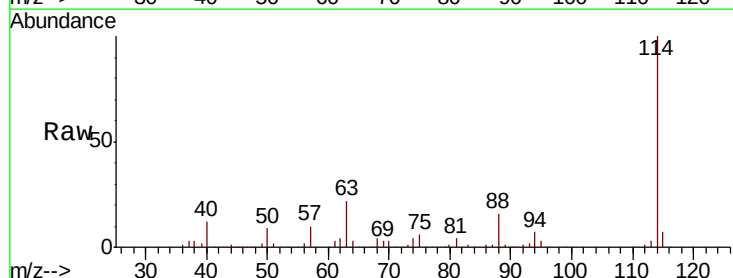
Tgt Ion: 114 Resp: 206614

Ion Ratio Lower Upper

114 100

63 23.0 14.2 21.4#

88 16.8 11.9 17.9



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

120000

100000

80000

60000

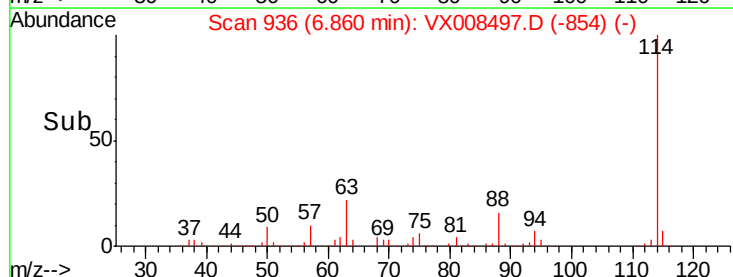
40000

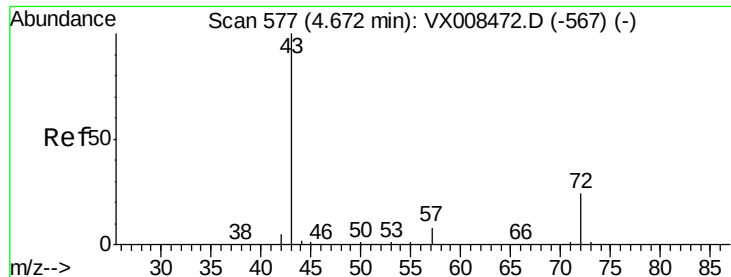
20000

0

Time-->

6.80 6.90 7.00

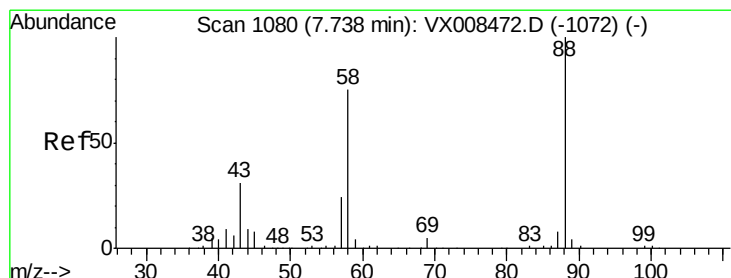
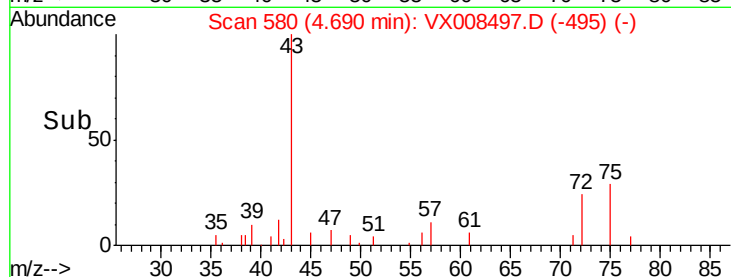
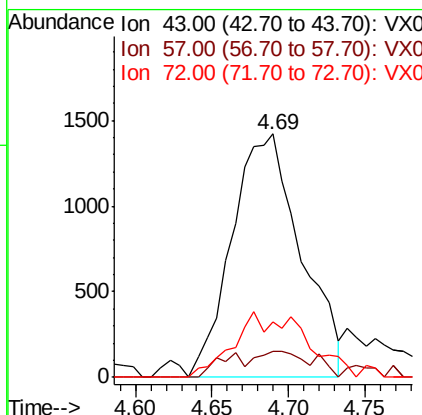
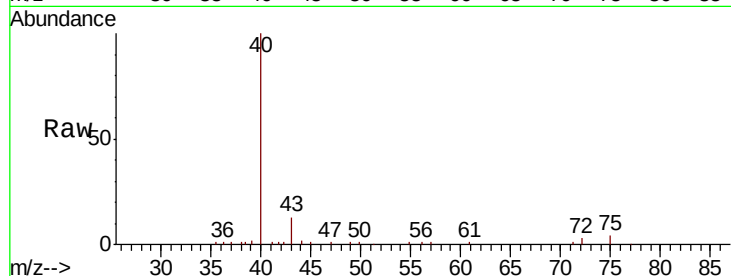




#30
2-Butanone
Concen: 1.744 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX008497.D
Acq: 27 Mar 2019 20:53

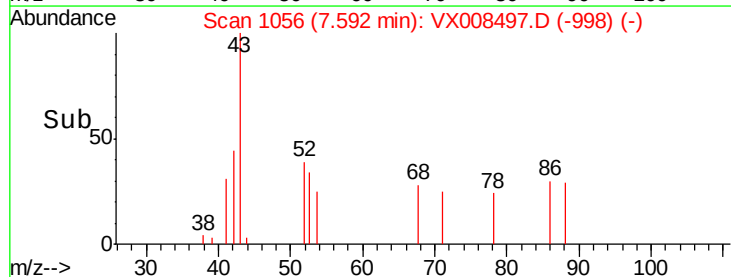
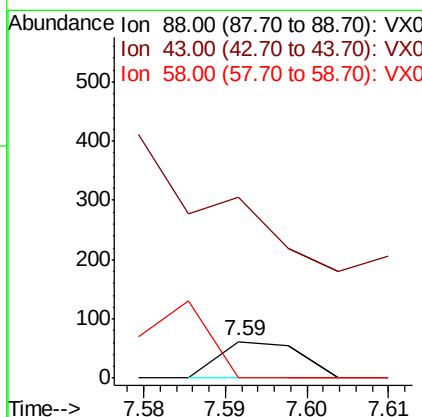
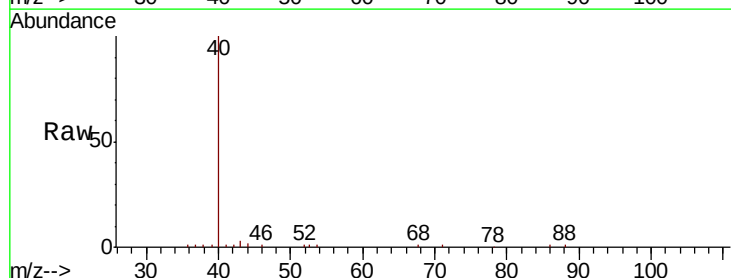
Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-3H-A

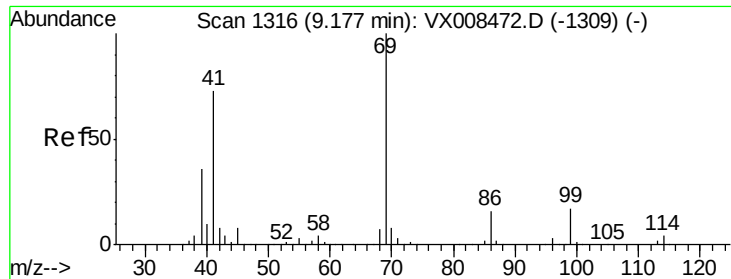
Tot Ion: 43 Resp: 4457
Ion Ratio Lower Upper
43 100
57 7.1 7.0 10.6
72 12.3 21.5 32.3#



#45
1,4-Dioxane
Concen: 0.581 ug/l
RT: 7.59 min Scan# 1056
Delta R.T. -0.15 min
Lab File: VX008497.D
Acq: 27 Mar 2019 20:53

Tgt Ion: 88 Resp: 43
Ion Ratio Lower Upper
88 100
43 0.0 23.6 35.4#
58 111.6 51.6 77.4#





#51

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.46 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

MH-C05-SETTLED-3H-A

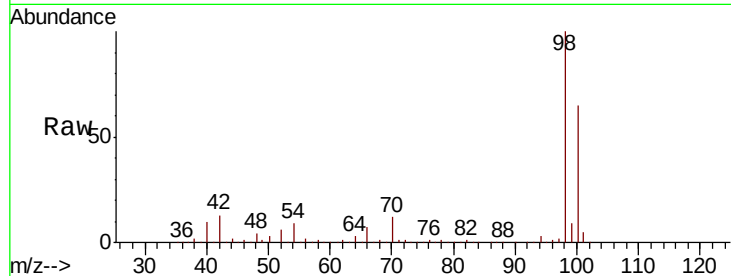
Tot Ion: 69 Resp: 1046

Ion Ratio Lower Upper

69 100

41 71.1 32.1 96.5

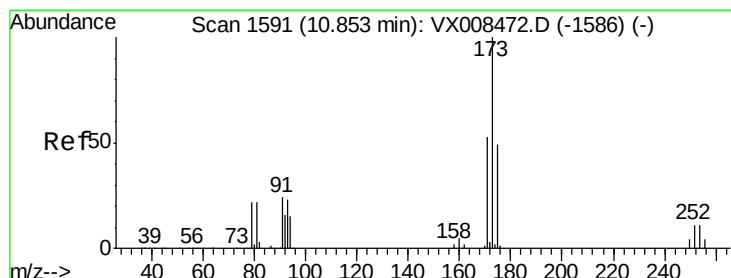
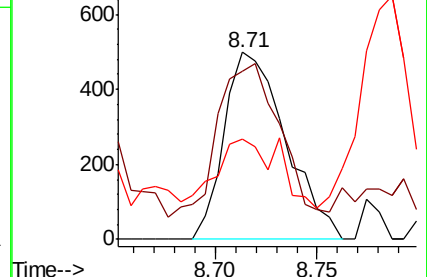
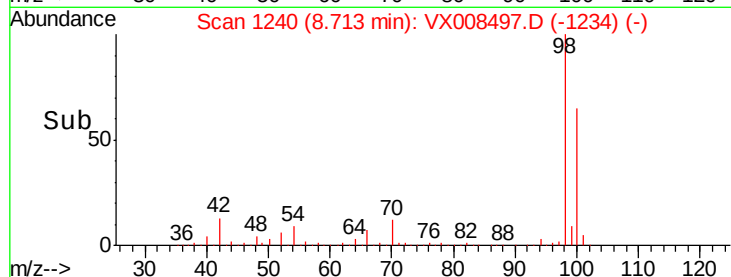
39 30.1 18.8 56.3



Abundance Ion 69.00 (68.70 to 69.70): VX008497.D (-1234) (-)

Ion 41.00 (40.70 to 41.70): VX008497.D (-1234) (-)

Ion 39.00 (38.70 to 39.70): VX008497.D (-1234) (-)



#56

Bromoform

Concen: 0.379 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

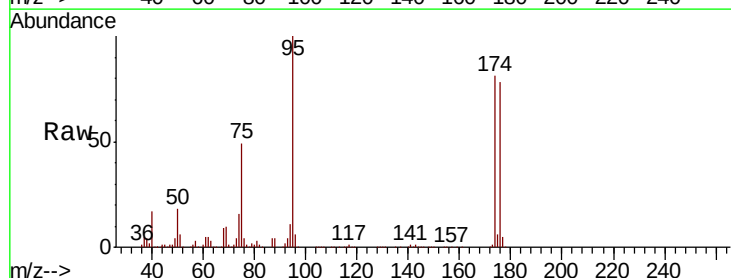
Tgt Ion: 173 Resp: 704

Ion Ratio Lower Upper

173 100

175 722.3 38.5 57.7#

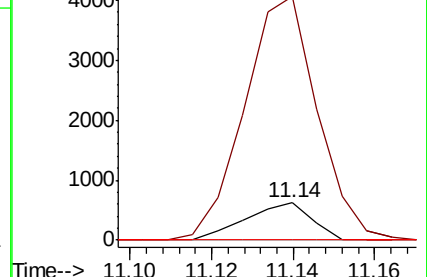
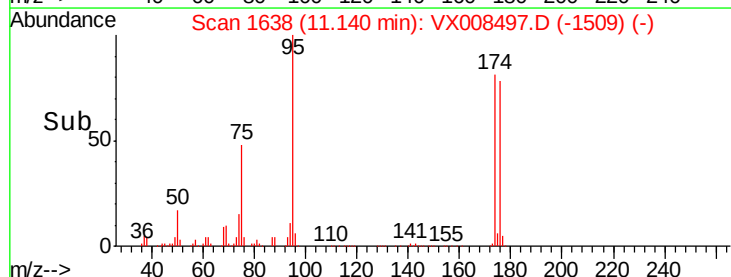
254 0.0 7.4 11.2#

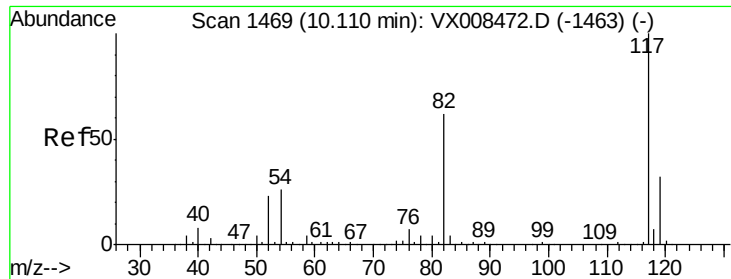


Abundance Ion 173.00 (172.70 to 173.70): VX008497.D (-1509) (-)

Ion 175.00 (174.70 to 175.70): VX008497.D (-1509) (-)

Ion 254.00 (253.70 to 254.70): VX008497.D (-1509) (-)

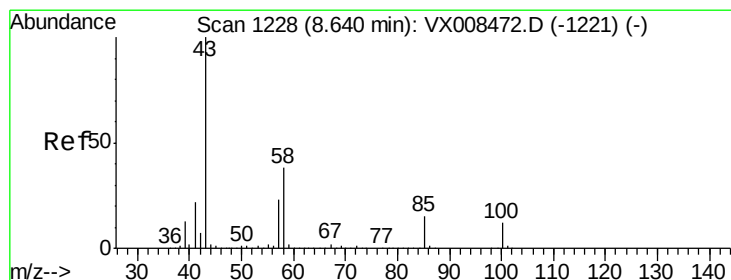
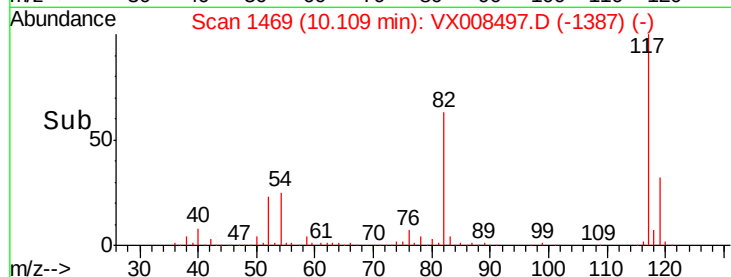
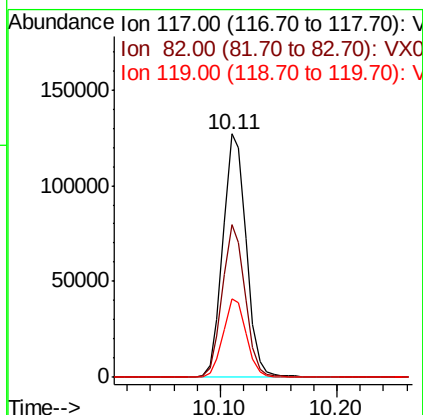
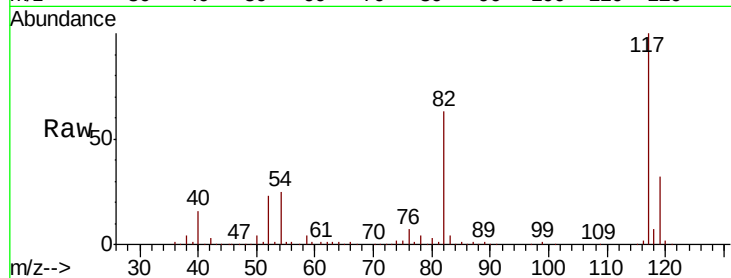




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008497.D
Acq: 27 Mar 2019 20:53

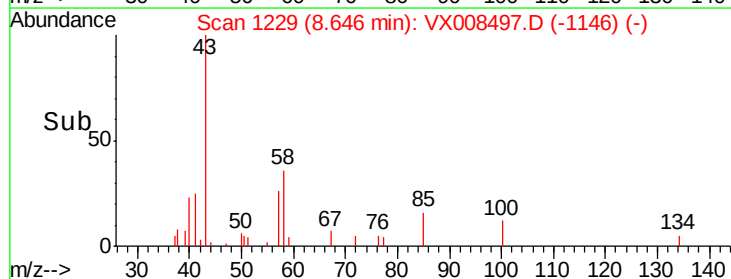
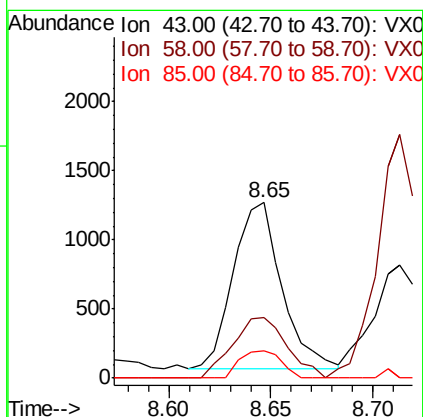
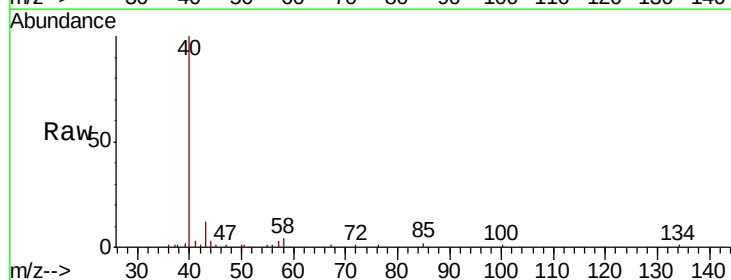
Instrument :
MSVOA_X
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MH-C05-SETTLED-3H-A

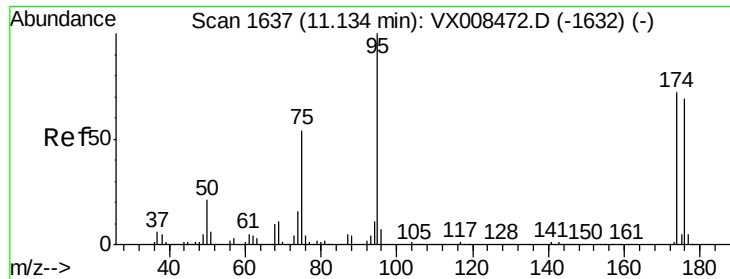
Tot Ion:117 Resp: 176217
Ion Ratio Lower Upper
117 100
82 61.1 40.4 60.6#
119 32.1 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.428 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.01 min
Lab File: VX008497.D
Acq: 27 Mar 2019 20:53

Tgt Ion: 43 Resp: 1989
Ion Ratio Lower Upper
43 100
58 40.4 31.4 47.0
85 14.1 15.0 22.6#

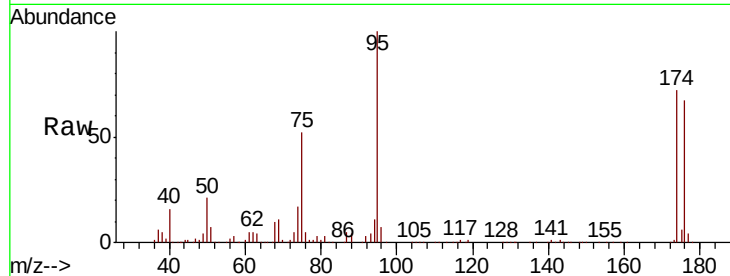




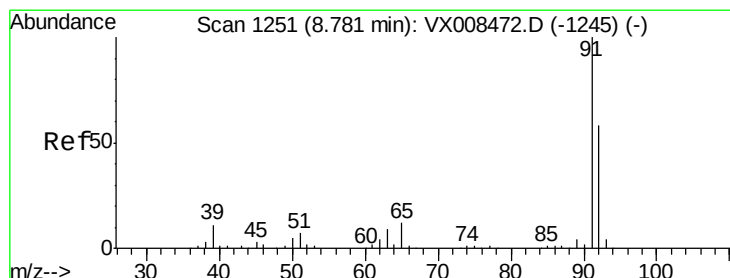
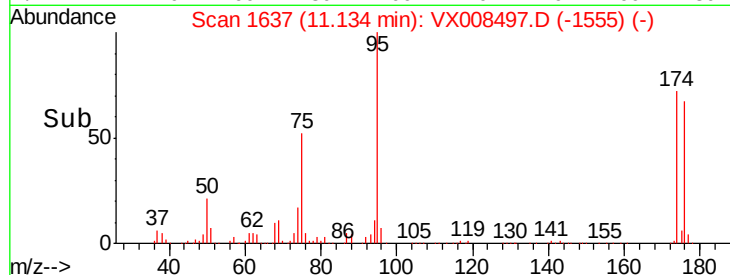
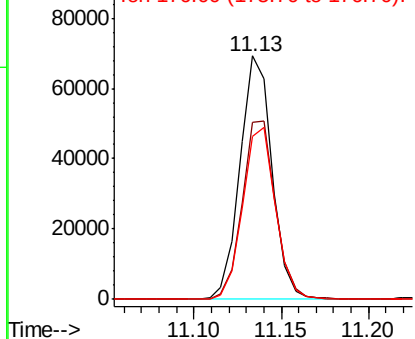
#60
 4-Bromofluorobenzene
 Concen: 28.688 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008497.D
 Acq: 27 Mar 2019 20:53

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-3H-A

Tot Ion: 95 Resp: 88081
 Ion Ratio Lower Upper
 95 100
 174 76.0 74.9 112.3
 176 72.3 70.7 106.1

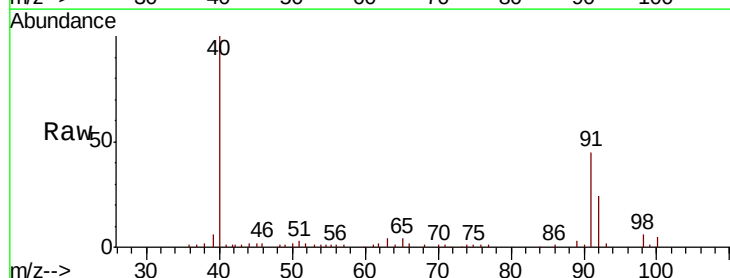


Abundance Ion 95.00 (94.70 to 95.70): VX0
 Ion 174.00 (173.70 to 174.70): V
 Ion 176.00 (175.70 to 176.70): V

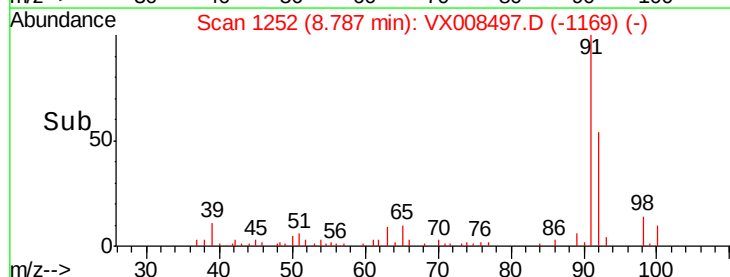
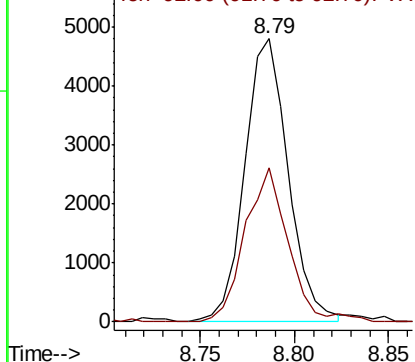


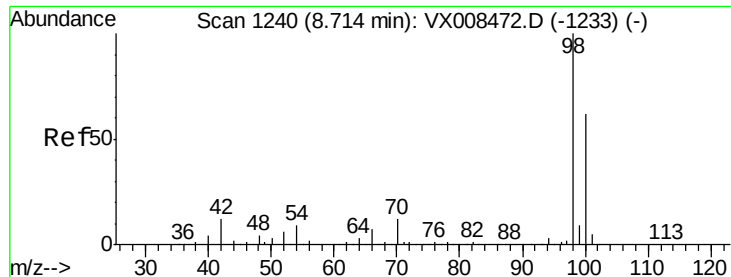
#62
 Toluene
 Concen: 0.720 ug/l
 RT: 8.79 min Scan# 1252
 Delta R.T. 0.01 min
 Lab File: VX008497.D
 Acq: 27 Mar 2019 20:53

Tgt Ion: 91 Resp: 7677
 Ion Ratio Lower Upper
 91 100
 92 53.1 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
 Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.693 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

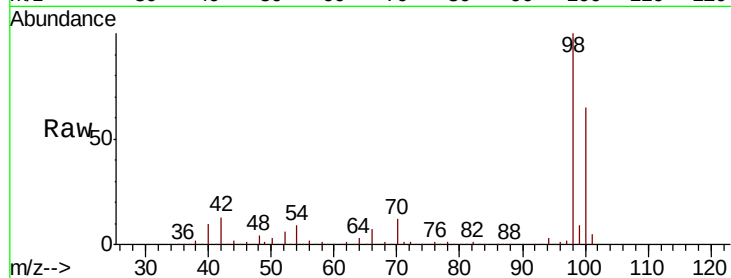
MH-C05-SETTLED-3H-A

Tot Ion: 98 Resp: 256738

Ion Ratio Lower Upper

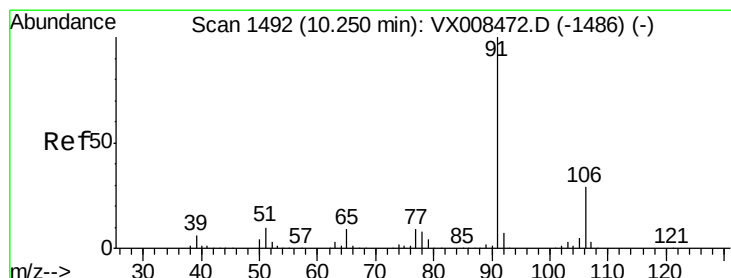
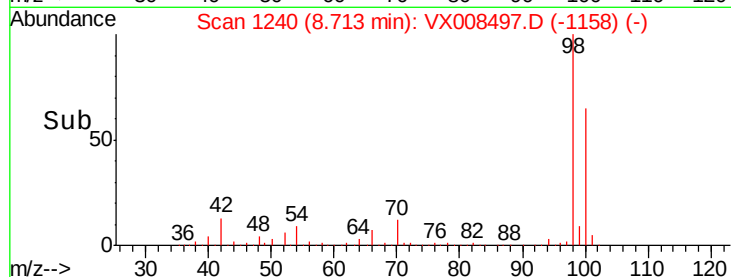
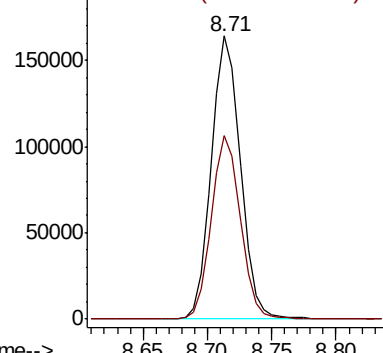
98 100

100 64.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#66

Ethyl Benzene

Concen: 0.631 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX008497.D

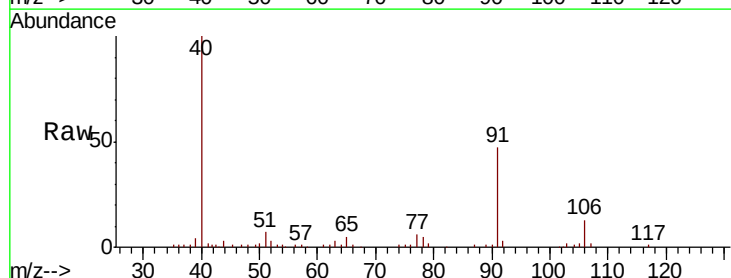
Acq: 27 Mar 2019 20:53

Tgt Ion: 91 Resp: 7473

Ion Ratio Lower Upper

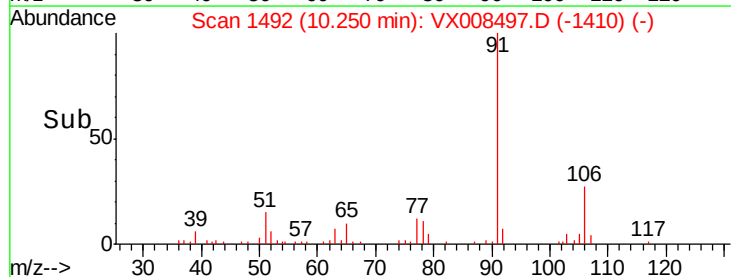
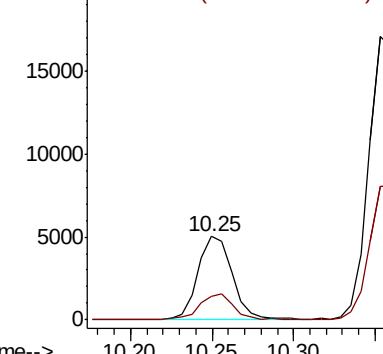
91 100

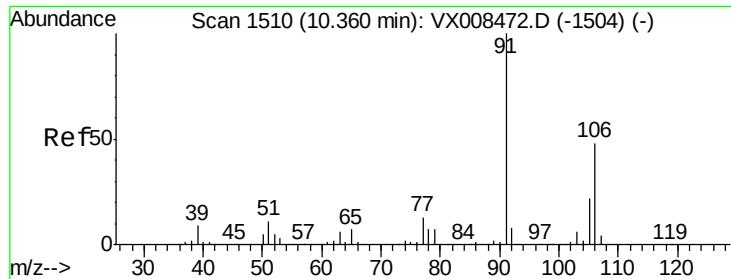
106 27.4 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 2.684 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX008497.D

Acq: 27 Mar 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

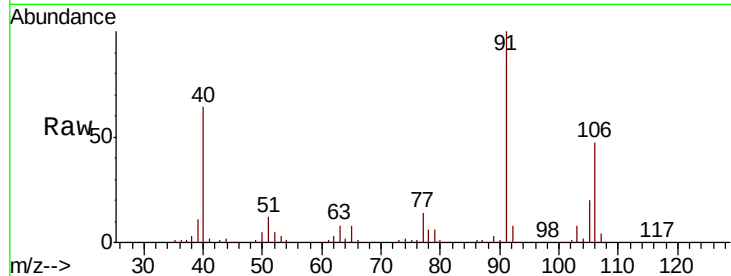
MH-C05-SETTLED-3H-A

Tot Ion:106 Resp: 11593

Ion Ratio Lower Upper

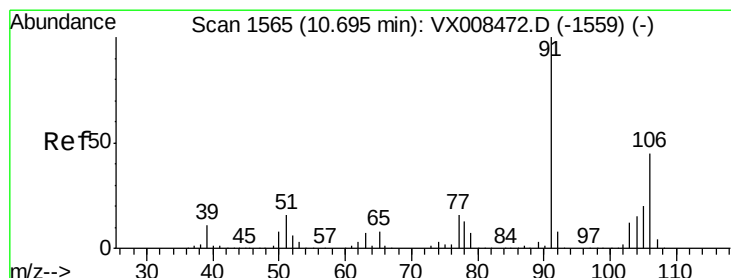
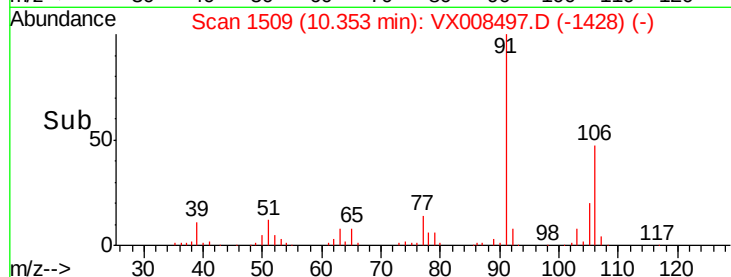
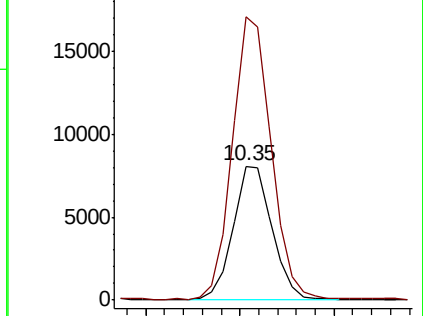
106 100

91 211.1 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 1.287 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX008497.D

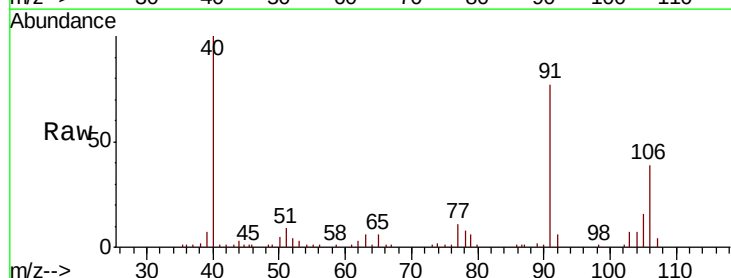
Acq: 27 Mar 2019 20:53

Tgt Ion:106 Resp: 5441

Ion Ratio Lower Upper

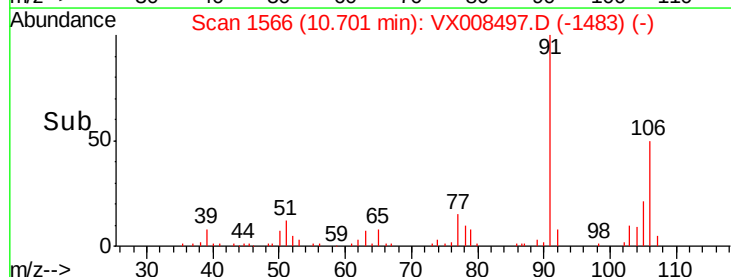
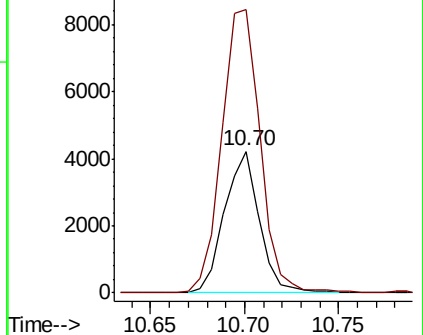
106 100

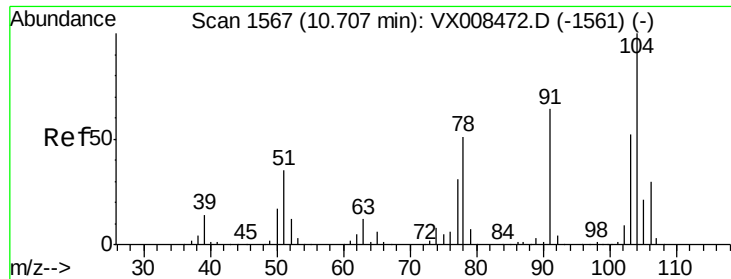
91 218.1 104.4 313.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

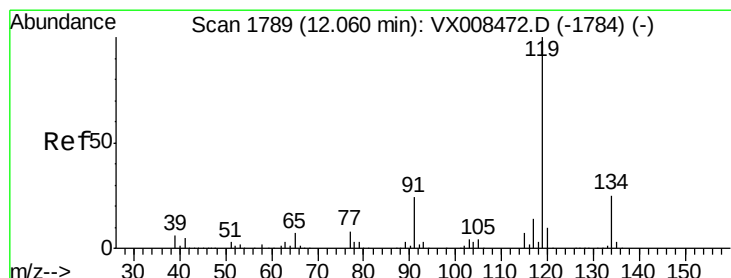
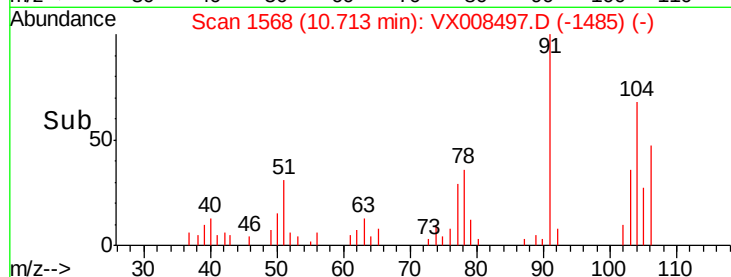
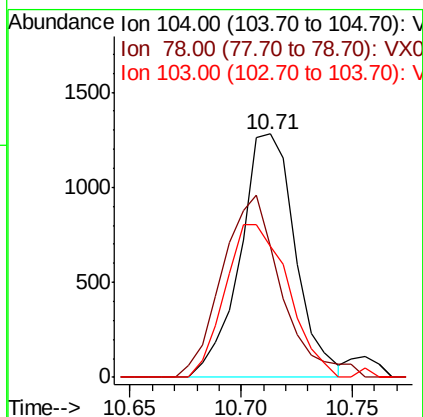
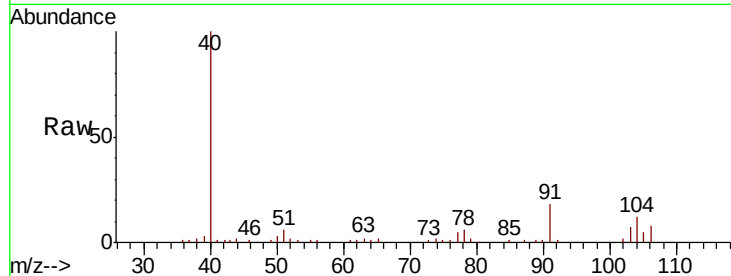




#69
Stvrene
Concen: 0.301 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX008497.D
Acq: 27 Mar 2019 20:53

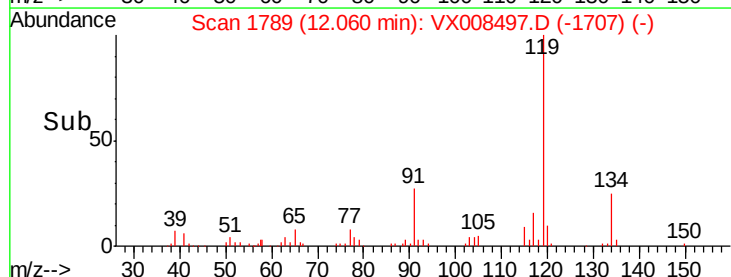
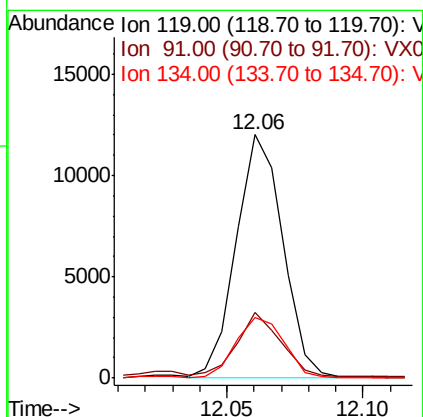
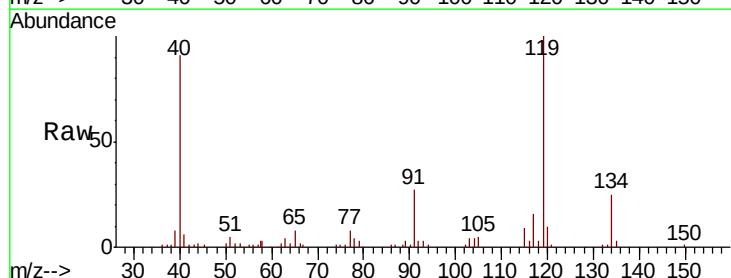
Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-3H-A

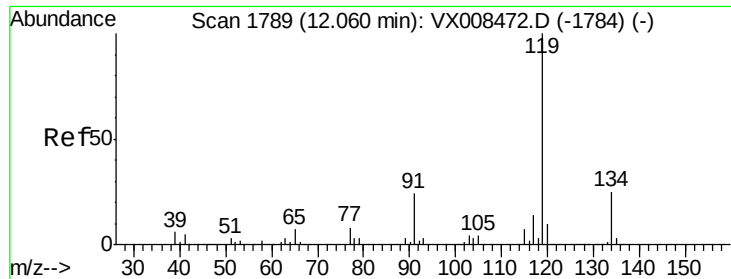
Tot Ion:104 Resp: 2212
Ion Ratio Lower Upper
104 100
78 80.7 38.2 57.2#
103 71.8 45.0 67.4#



#79
tert-butylbenzene
Concen: 1.475 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VX008497.D
Acq: 27 Mar 2019 20:53

Tgt Ion:119 Resp: 14368
Ion Ratio Lower Upper
119 100
91 26.2 0.0 45.0
134 25.9 0.0 55.4

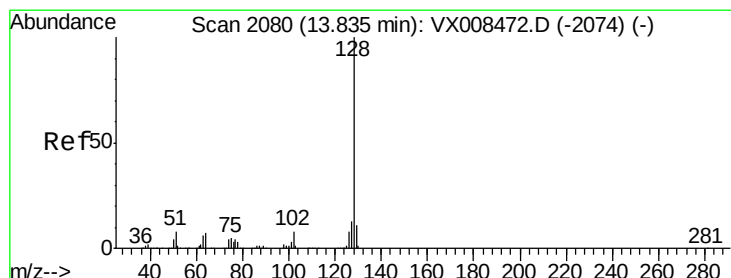
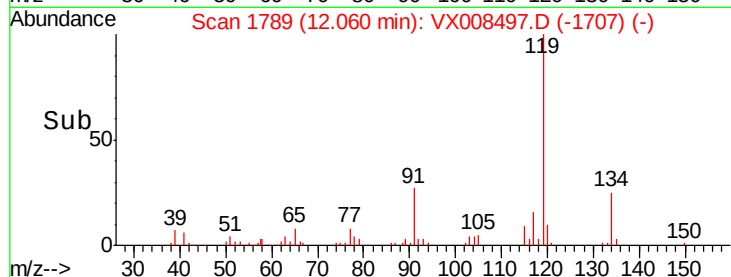
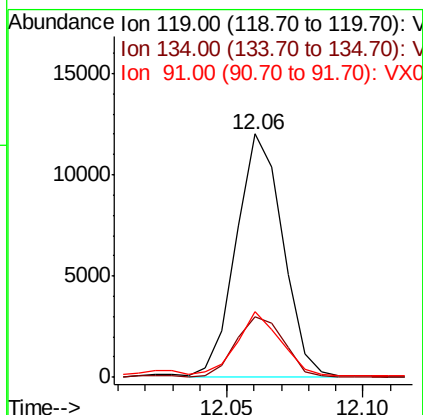
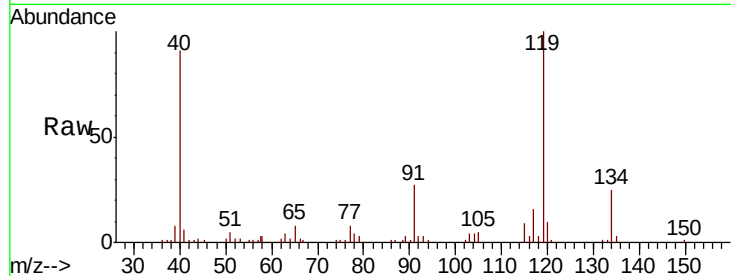




#82
 p-Isopropyltoluene
 Concen: 1.475 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX008497.D
 Acq: 27 Mar 2019 20:53

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-3H-A

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	0.0	55.4
91	26.2	0.0	45.0



#91
 Naphthalene
 Concen: 0.446 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX008497.D
 Acq: 27 Mar 2019 20:53

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.5	15.7
129	11.2	8.9	13.3

