

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008487.D
 Acq On : 27 Mar 2019 17:02
 Operator : JC/SP
 Sample : K2099-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-1H-B

Quant Time: Mar 28 02:08:25 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	5.02	128	36483	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	207470	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	178119	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.06	65	91543	29.99	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.97%
60) 4-Bromofluorobenzene	11.13	95	86878	27.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.30%
63) Toluene-d8	8.71	98	258846	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

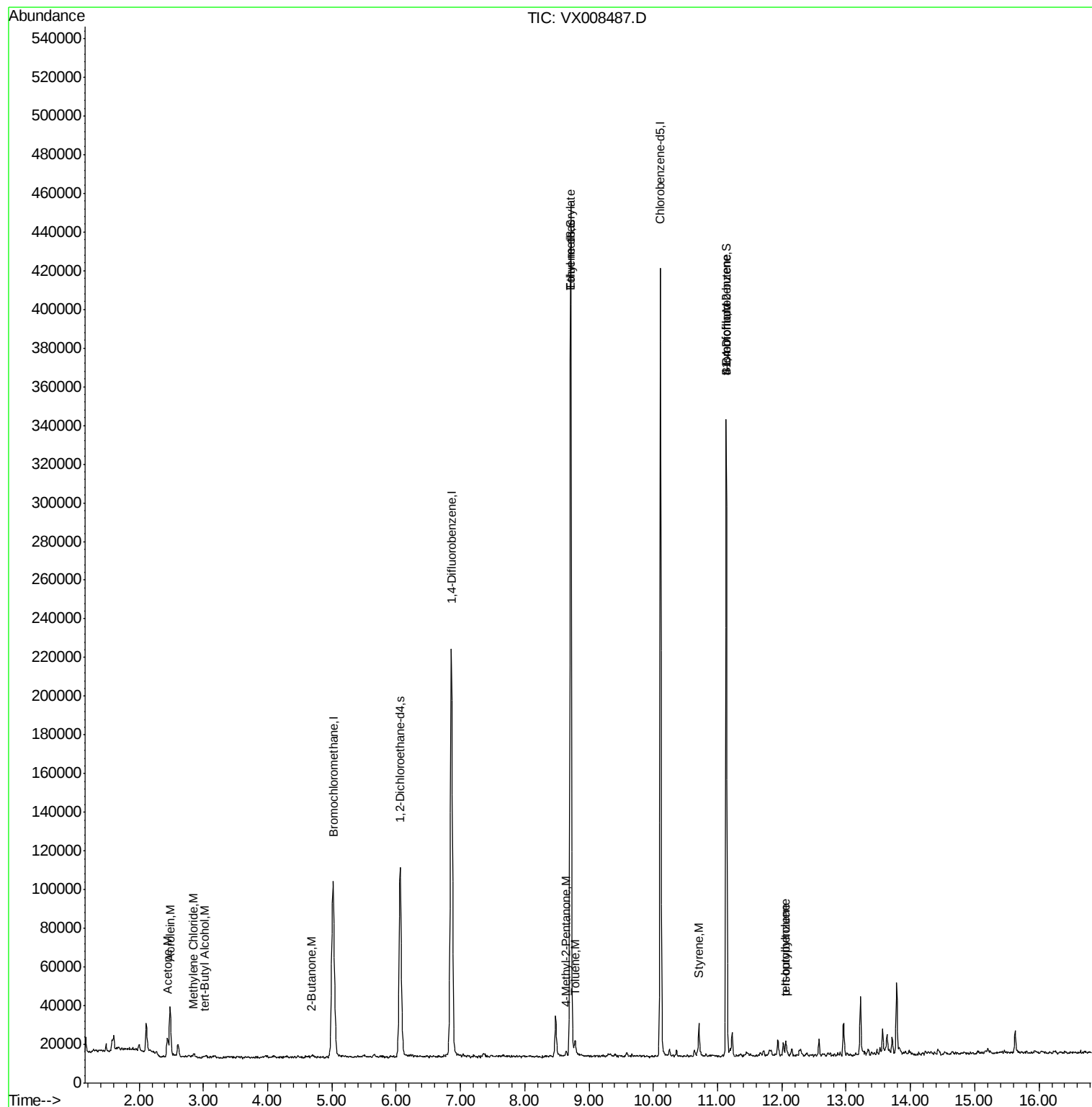
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acrolein	2.48	56	123	0.229	ug/l	88
15) Acetone	2.44	58	3396	6.361	ug/l	95
18) Methylene Chloride	2.85	84	759	0.275	ug/l #	85
23) tert-Butyl Alcohol	3.02	59	192	0.275	ug/l #	100
30) 2-Butanone	4.68	43	676	0.263	ug/l #	82
51) Ethyl methacrylate	8.71	69	1051	0.217	ug/l	85
56) Bromoform	11.14	173	800	0.429	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	1809	0.385	ug/l	97
62) Toluene	8.78	91	3346	0.310	ug/l	99
69) Styrene	10.71	104	6455	0.868	ug/l	94
77) t-1,4-Dichloro-2-butene	11.13	75	45423	33.275	ug/l #	6
79) tert-butylbenzene	12.06	119	2894	0.294	ug/l	90
82) p-Isopropyltoluene	12.06	119	2894	0.294	ug/l	90

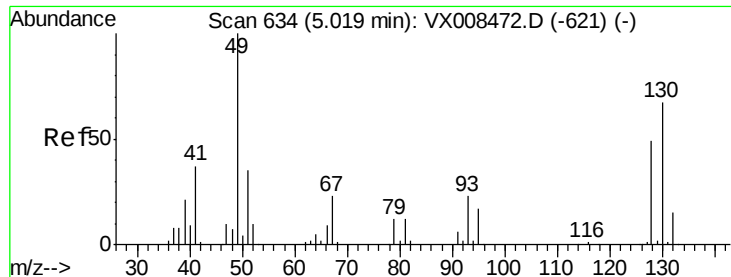
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032719\
Data File : VX008487.D
Acq On : 27 Mar 2019 17:02
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ALS Vial : 19 Sample Multiplier: 1

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MSVOA_X
ClientSampleId :
MH-C02-SETTLED-1H-B

Quant Time: Mar 28 02:08:25 2019
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-B

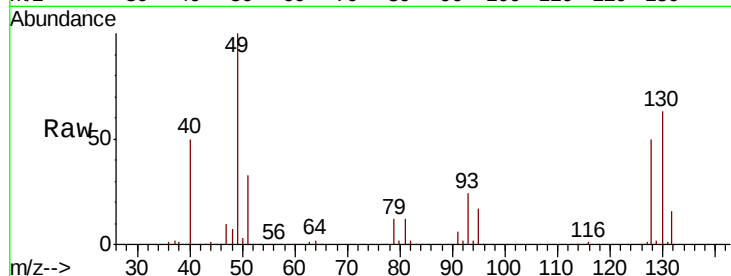
Tot Ion:128 Resp: 36483

Ion Ratio Lower Upper

128 100

49 201.0 0.0 350.8

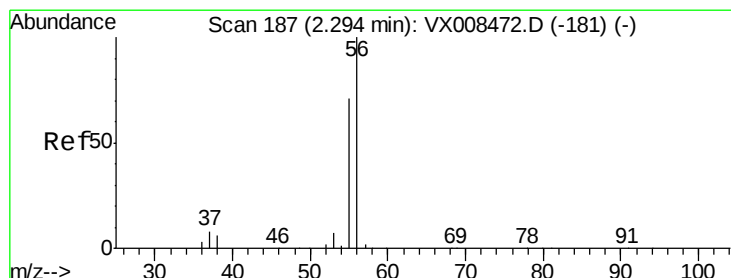
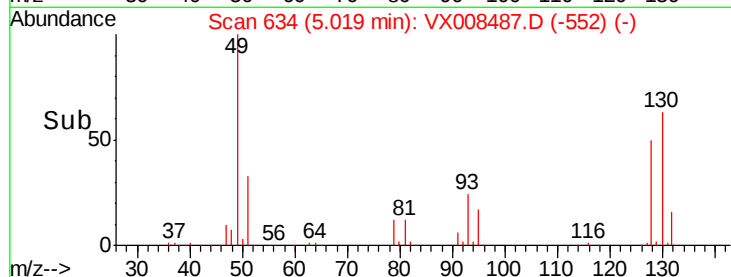
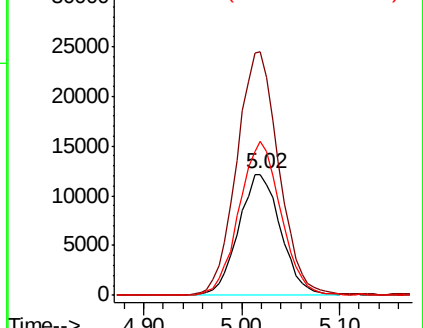
130 125.8 0.0 325.8



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



#13

Acrolein

Concen: 0.229 ug/l

RT: 2.48 min Scan# 218

Delta R.T. 0.19 min

Lab File: VX008487.D

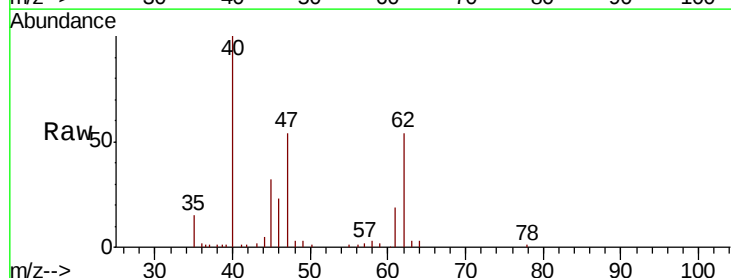
Acq: 27 Mar 2019 17:02

Tgt Ion: 56 Resp: 123

Ion Ratio Lower Upper

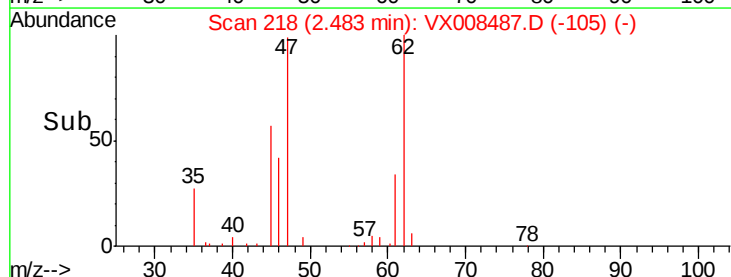
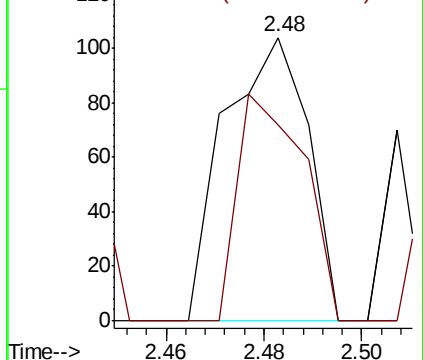
56 100

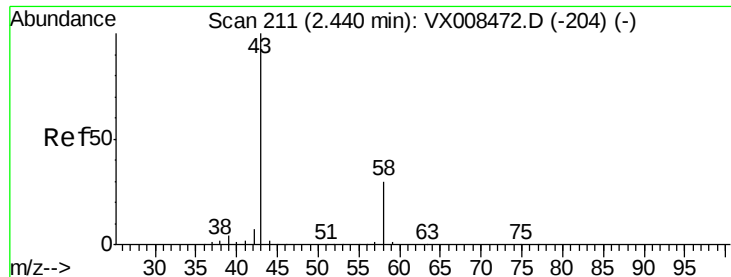
55 63.4 58.6 87.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 6.361 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

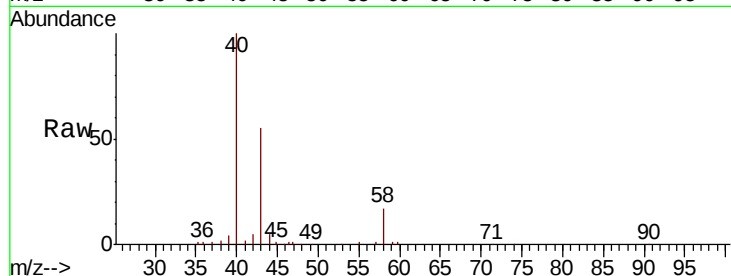
MH-C02-SETTLED-1H-B

Tot Ion: 58 Resp: 3396

Ion Ratio Lower Upper

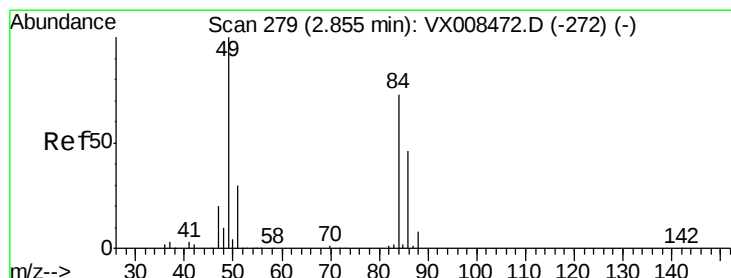
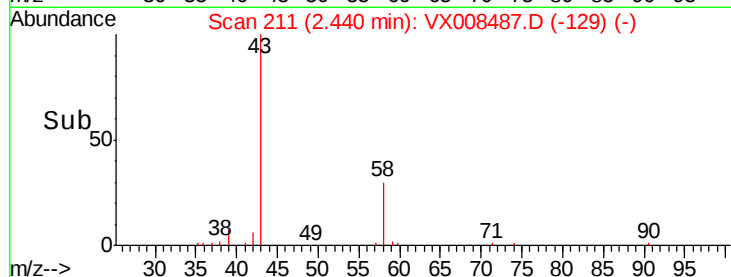
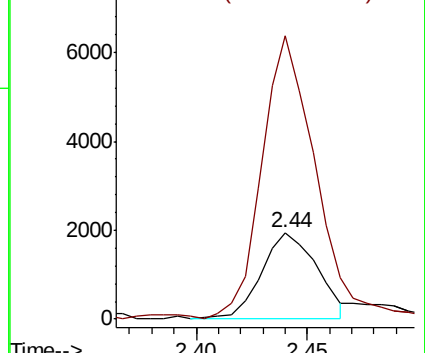
58 100

43 323.0 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.275 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Tgt Ion: 84 Resp: 759

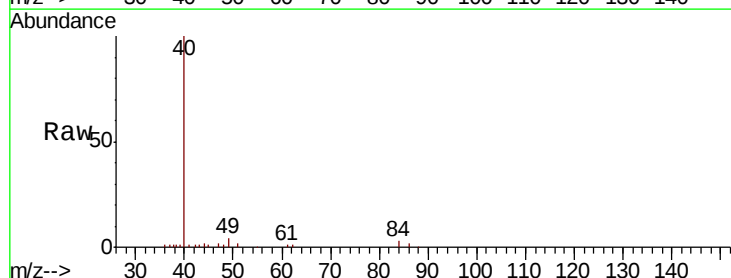
Ion Ratio Lower Upper

84 100

49 105.0 96.1 144.1

51 56.3 29.1 43.7#

86 53.7 47.3 70.9

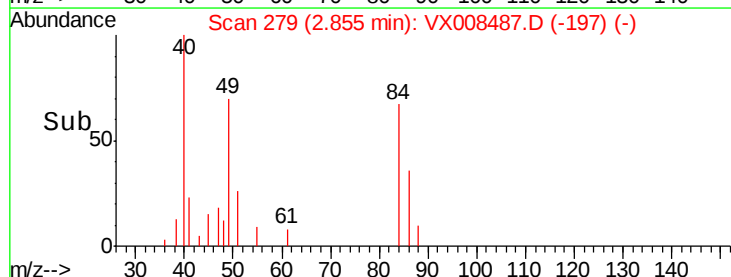
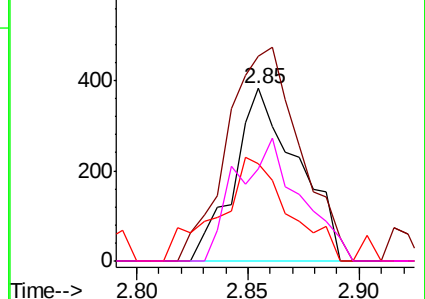


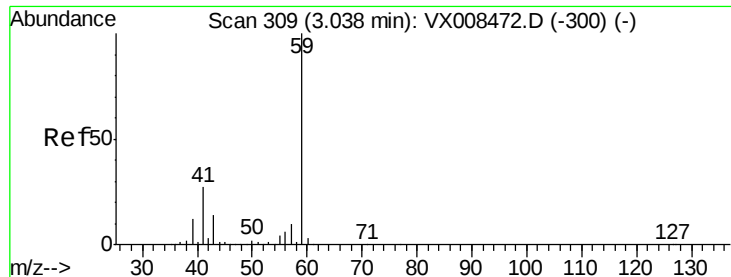
Abundance Ion 84.00 (83.70 to 84.70): VX0

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



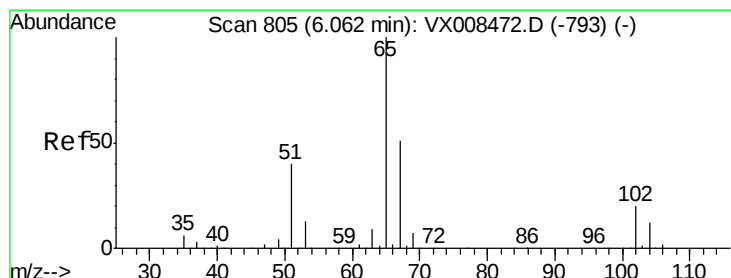
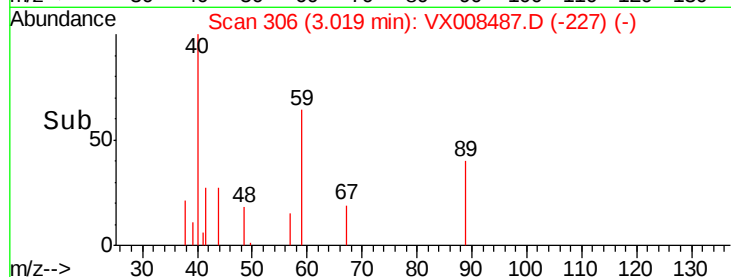
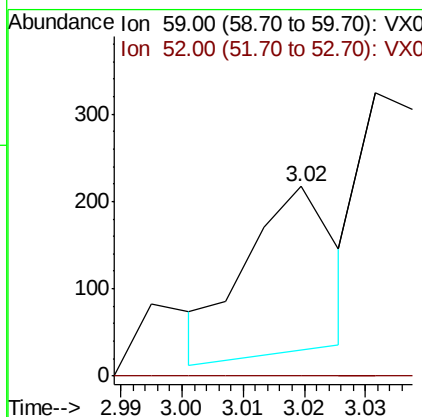
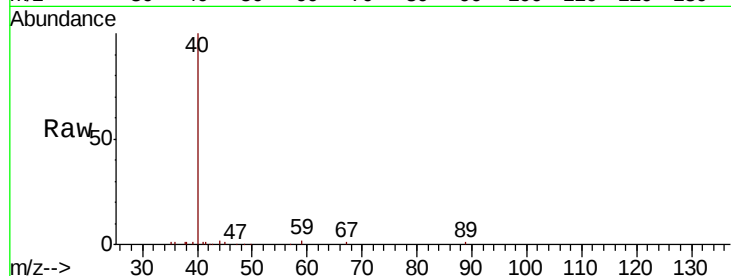


#23

tert-Butyl Alcohol
 Concen: 0.275 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX008487.D
 Acq: 27 Mar 2019 17:02

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-1H-B

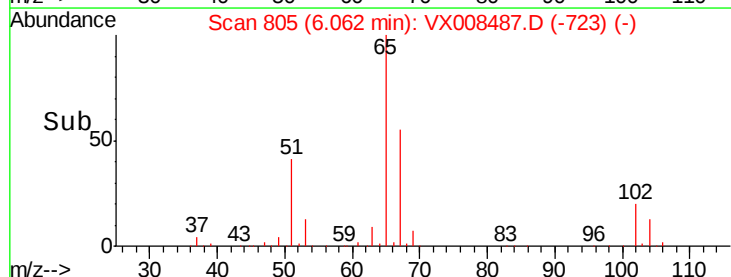
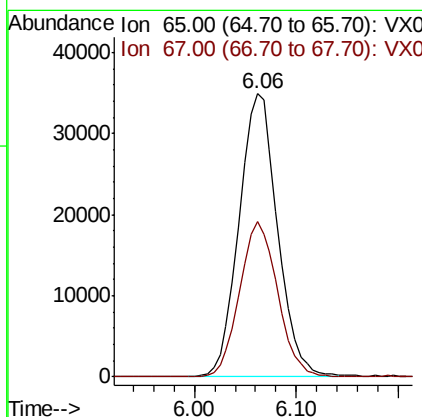
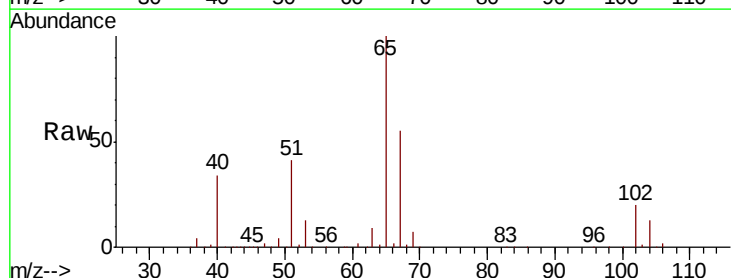
Tot Ion: 59 Resp: 192
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.2 0.2#

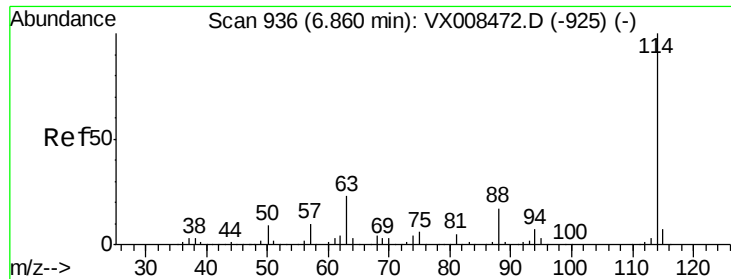


#27

1,2-Dichloroethane-d4
 Concen: 29.995 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008487.D
 Acq: 27 Mar 2019 17:02

Tgt Ion: 65 Resp: 91543
 Ion Ratio Lower Upper
 65 100
 67 54.2 42.9 64.3

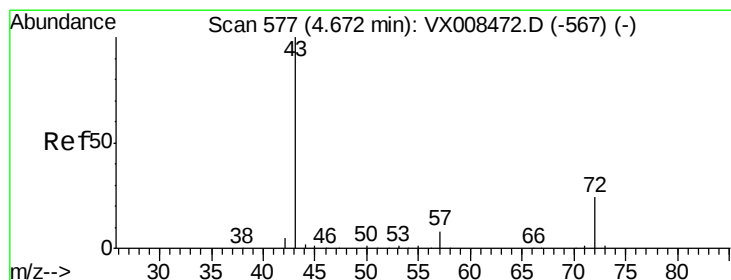
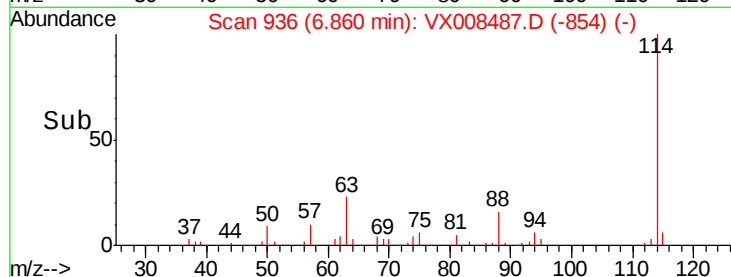
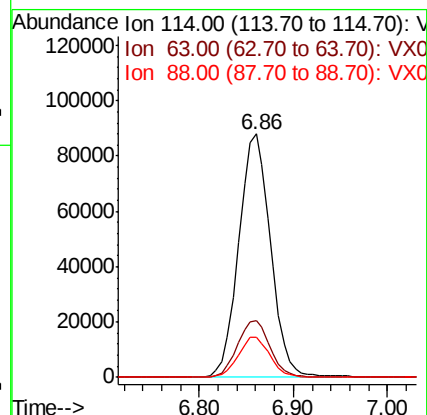
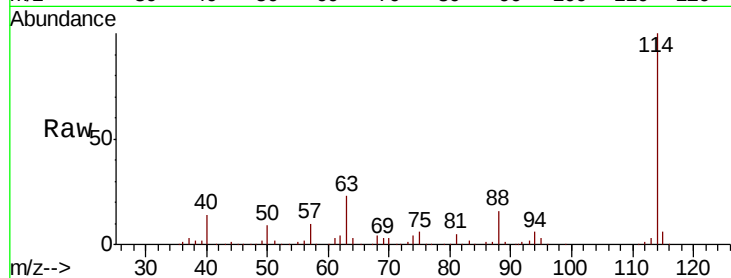




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008487.D
 Acq: 27 Mar 2019 17:02

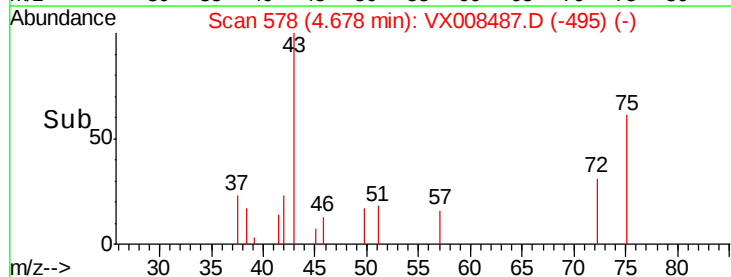
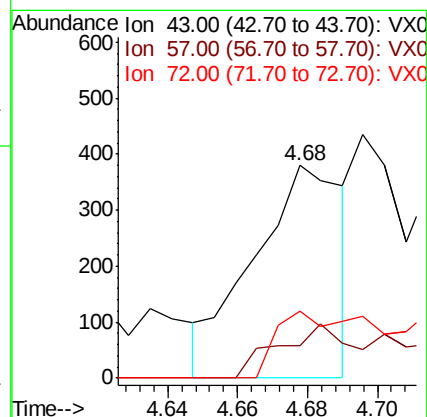
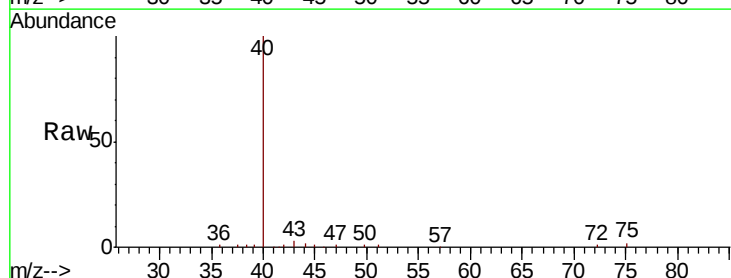
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-1H-B

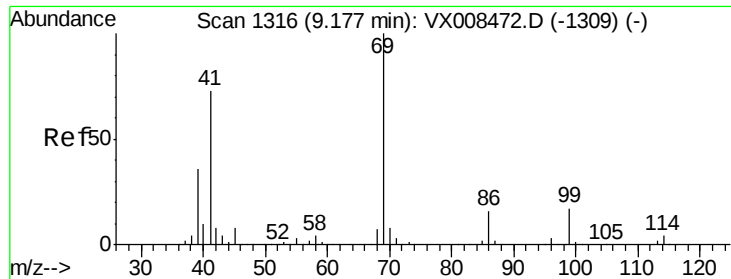
Tot Ion:114 Resp: 207470
 Ion Ratio Lower Upper
 114 100
 63 23.8 14.2 21.4#
 88 16.2 11.9 17.9



#30
 2-Butanone
 Concen: 0.263 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VX008487.D
 Acq: 27 Mar 2019 17:02

Tgt Ion: 43 Resp: 676
 Ion Ratio Lower Upper
 43 100
 57 4.6 7.0 10.6#
 72 16.6 21.5 32.3#





#51

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.46 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-B

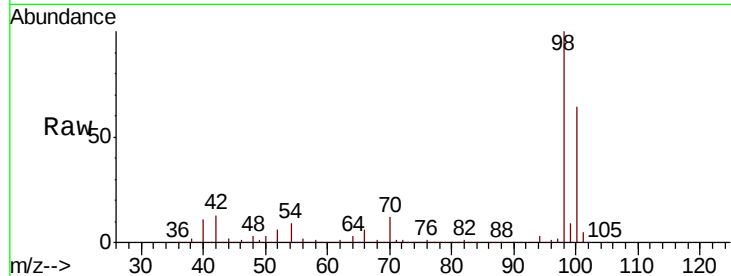
Tot Ion: 69 Resp: 1051

Ion Ratio Lower Upper

69 100

41 75.2 32.1 96.5

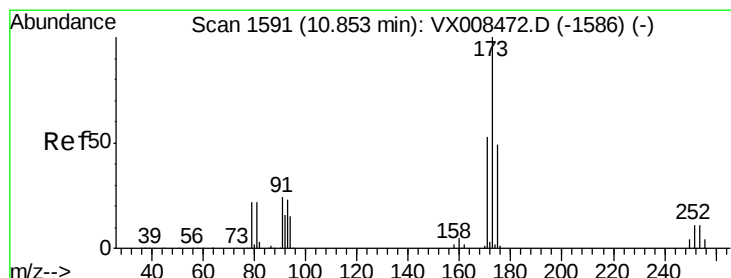
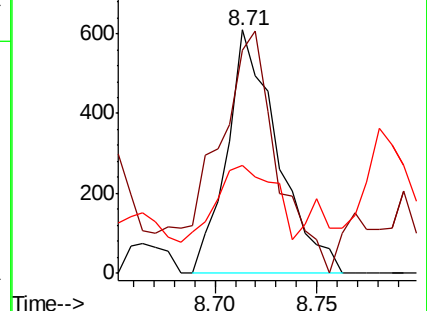
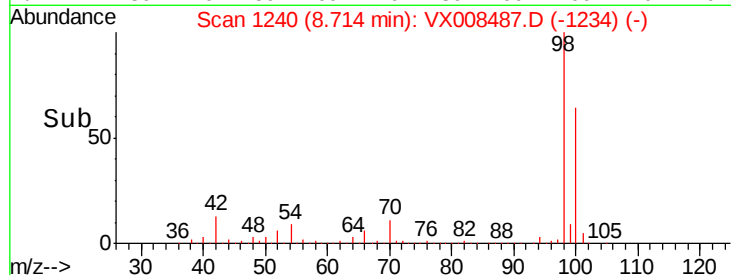
39 27.3 18.8 56.3



Abundance Ion 69.00 (68.70 to 69.70): VX008487.D (-1234) (-)

Ion 41.00 (40.70 to 41.70): VX008487.D (-1234) (-)

Ion 39.00 (38.70 to 39.70): VX008487.D (-1234) (-)



#56

Bromoform

Concen: 0.429 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

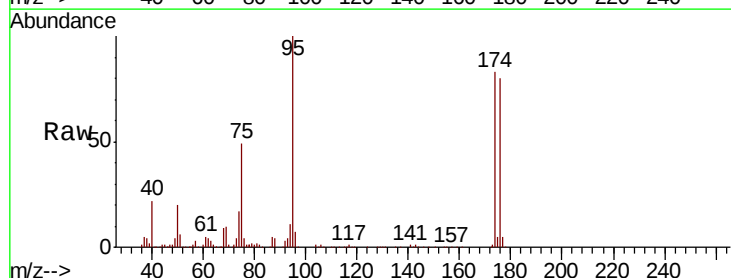
Tgt Ion: 173 Resp: 800

Ion Ratio Lower Upper

173 100

175 606.4 38.5 57.7#

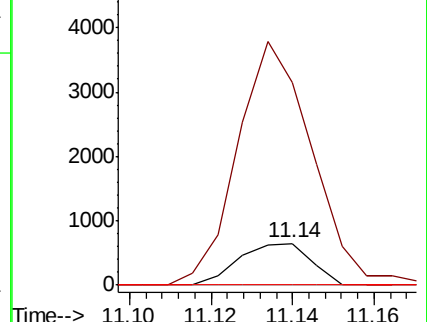
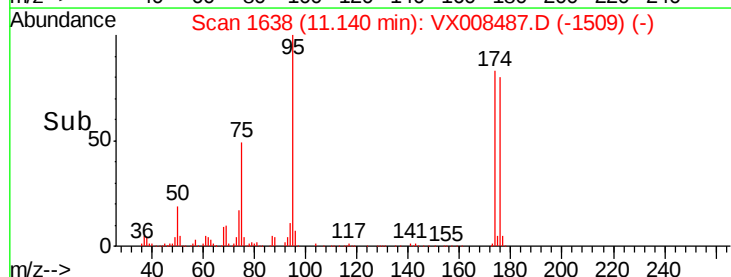
254 0.0 7.4 11.2#

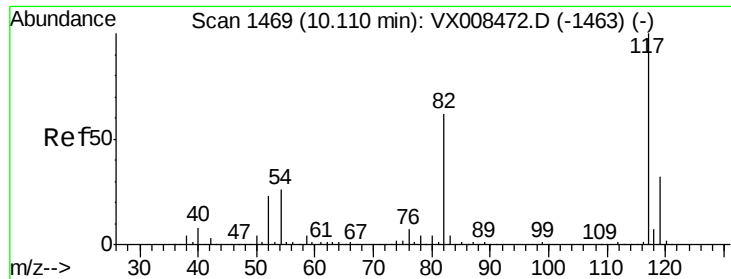


Abundance Ion 173.00 (172.70 to 173.70): VX008487.D (-1509) (-)

Ion 175.00 (174.70 to 175.70): VX008487.D (-1509) (-)

Ion 254.00 (253.70 to 254.70): VX008487.D (-1509) (-)

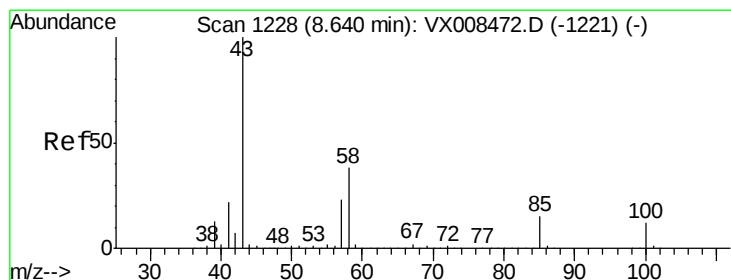
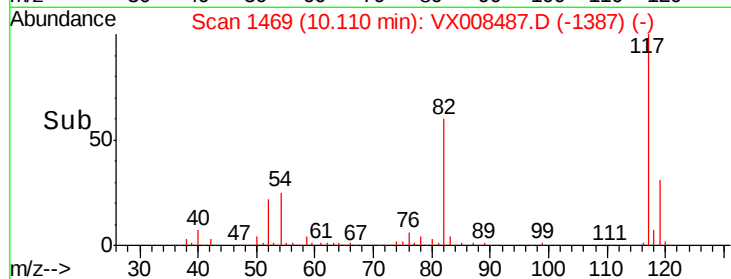
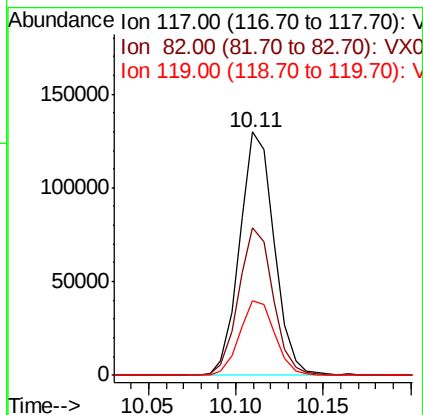
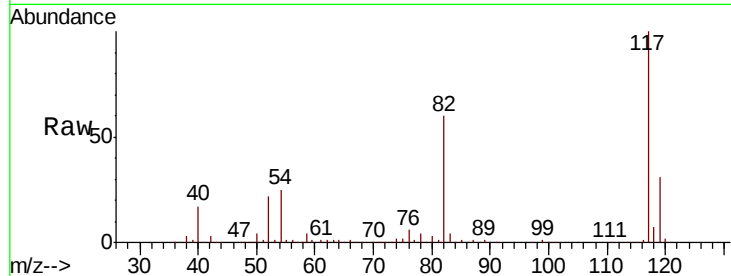




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008487.D
Acq: 27 Mar 2019 17:02

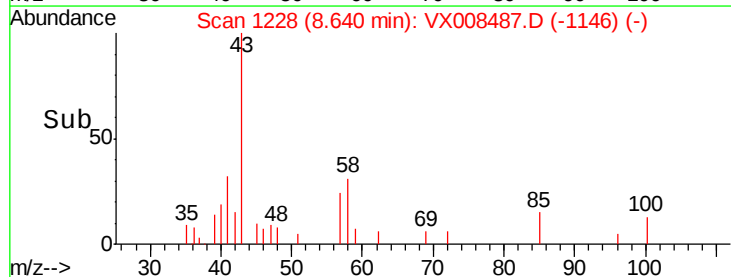
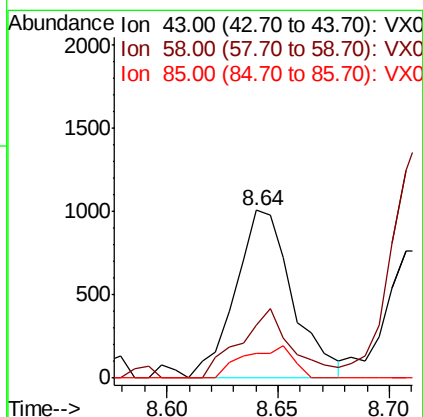
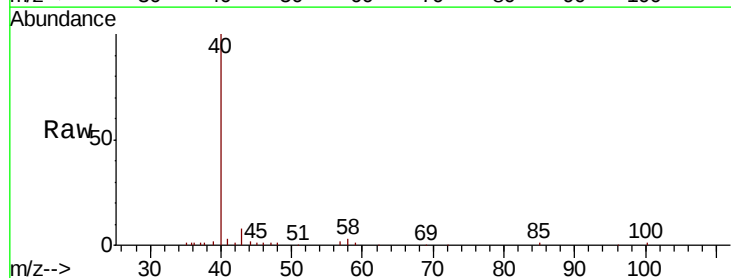
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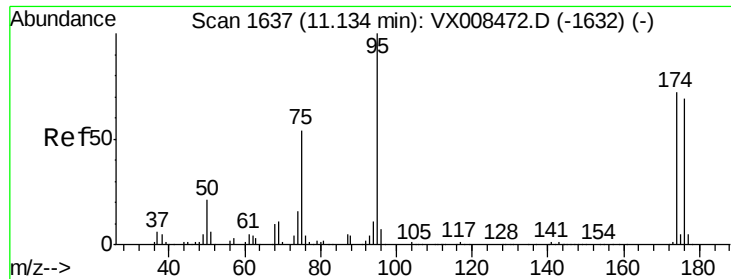
Tot Ion:117 Resp: 178119
Ion Ratio Lower Upper
117 100
82 60.8 40.4 60.6#
119 31.5 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.385 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX008487.D
Acq: 27 Mar 2019 17:02

Tgt Ion: 43 Resp: 1809
Ion Ratio Lower Upper
43 100
58 38.3 31.4 47.0
85 16.2 15.0 22.6





#60

4-Bromofluorobenzene

Concen: 27.994 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-B

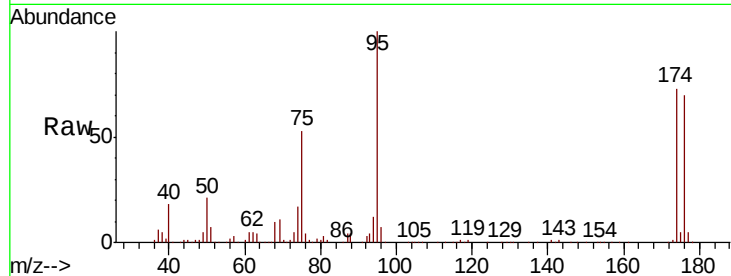
Tot Ion: 95 Resp: 86878

Ion Ratio Lower Upper

95 100

174 75.5 74.9 112.3

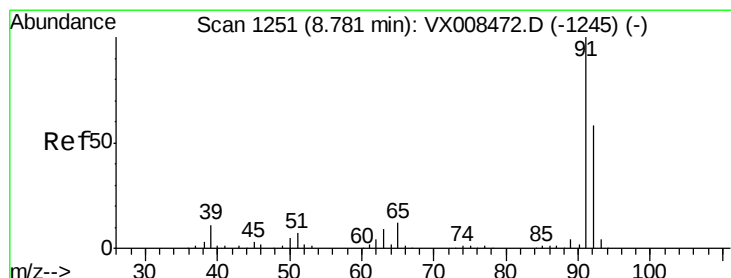
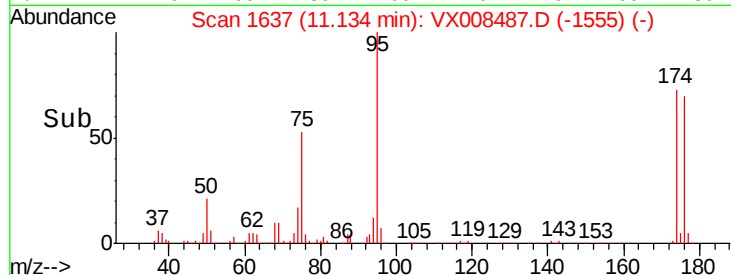
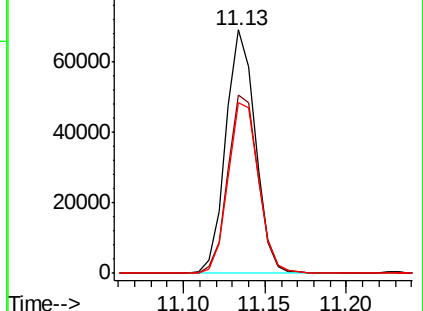
176 72.6 70.7 106.1



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: 0.310 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX008487.D

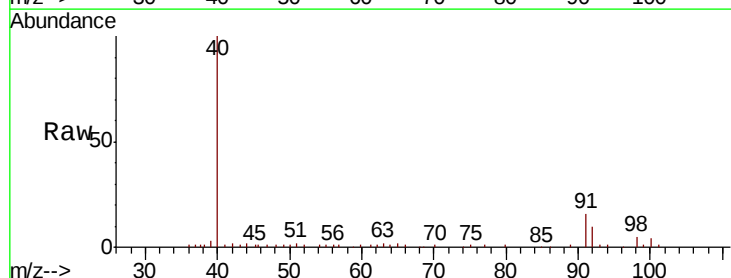
Acq: 27 Mar 2019 17:02

Tgt Ion: 91 Resp: 3346

Ion Ratio Lower Upper

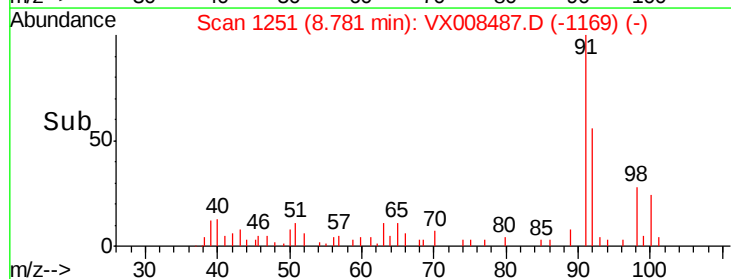
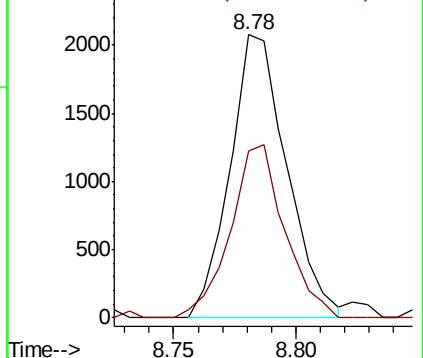
91 100

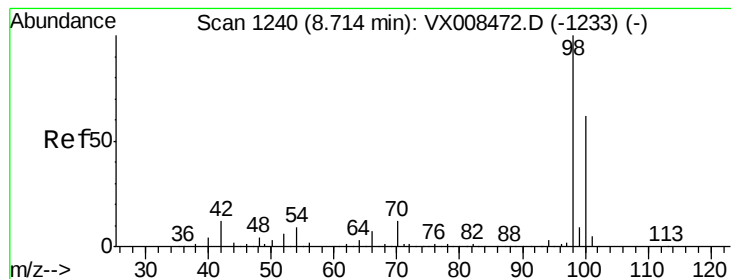
92 58.5 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.615 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

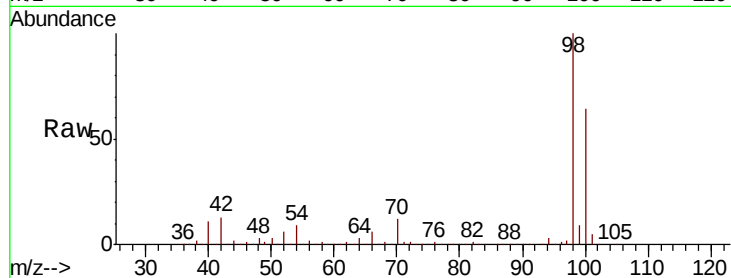
MH-C02-SETTLED-1H-B

Tot Ion: 98 Resp: 258846

Ion Ratio Lower Upper

98 100

100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX008487.D (-1233) (-)

Ion 100.00 (99.70 to 100.70): VX008487.D (-1233) (-)

8.71

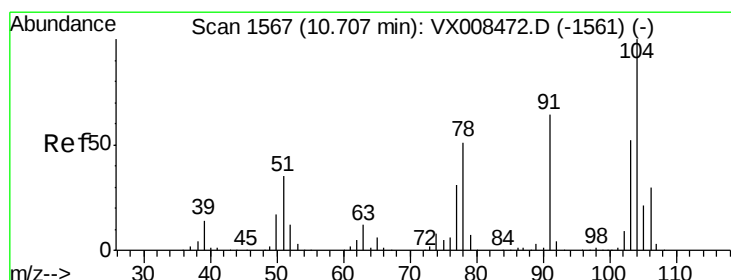
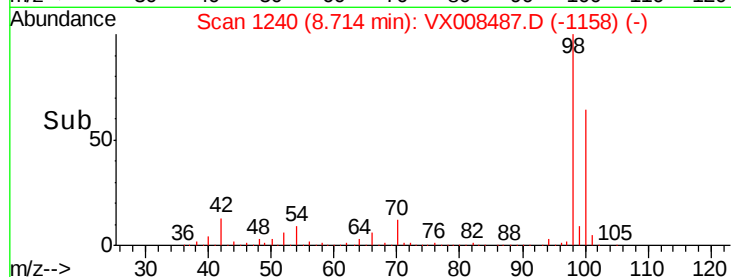
150000

100000

50000

0

Time-->



#69

Styrene

Concen: 0.868 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

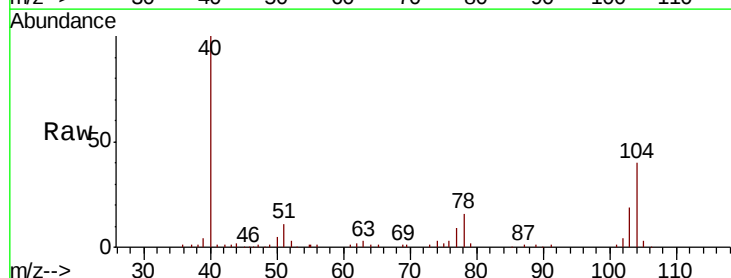
Tgt Ion: 104 Resp: 6455

Ion Ratio Lower Upper

104 100

78 46.8 38.2 57.2

103 48.7 45.0 67.4



Abundance Ion 104.00 (103.70 to 104.70): VX008487.D (-1485) (-)

Ion 78.00 (77.70 to 78.70): VX008487.D (-1485) (-)

Ion 103.00 (102.70 to 103.70): VX008487.D (-1485) (-)

10.71

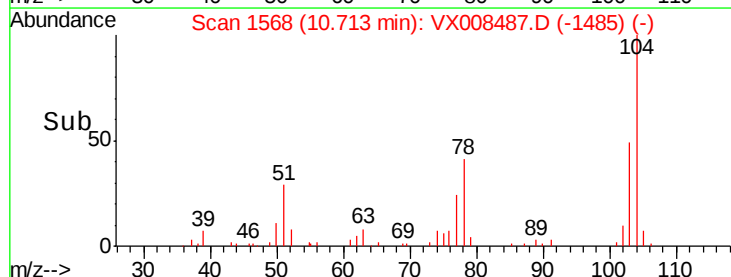
6000

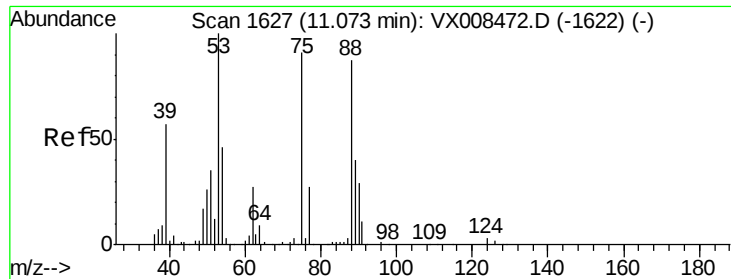
4000

2000

0

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 33.275 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-B

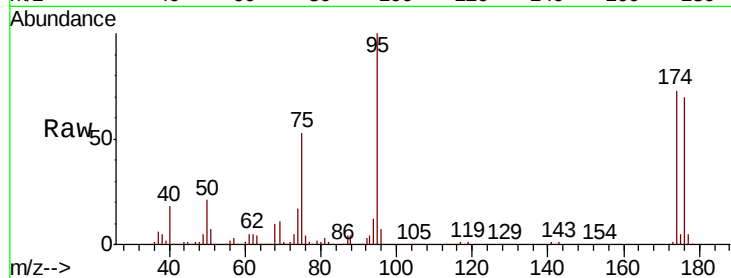
Tot Ion: 75 Resp: 45423

Ion Ratio Lower Upper

75 100

53 0.1 55.5 166.7#

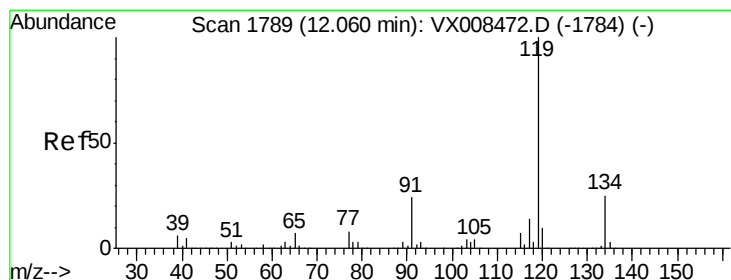
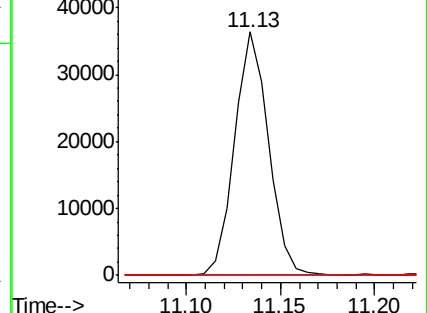
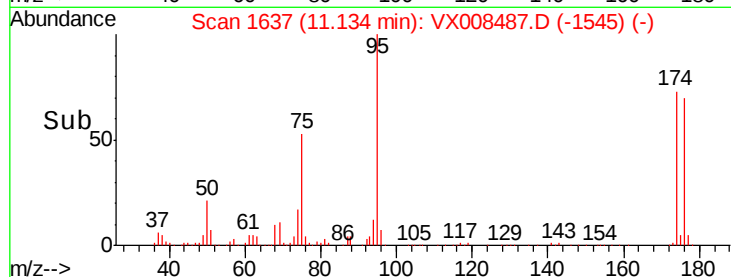
89 0.0 24.4 73.2#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0



#79

tert-butylbenzene

Concen: 0.294 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX008487.D

Acq: 27 Mar 2019 17:02

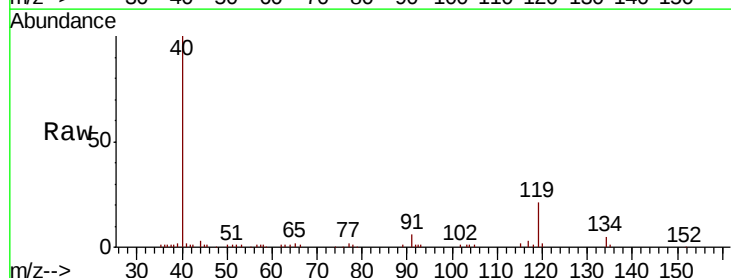
Tgt Ion: 119 Resp: 2894

Ion Ratio Lower Upper

119 100

91 29.1 0.0 45.0

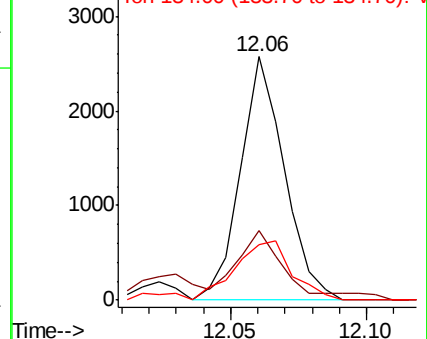
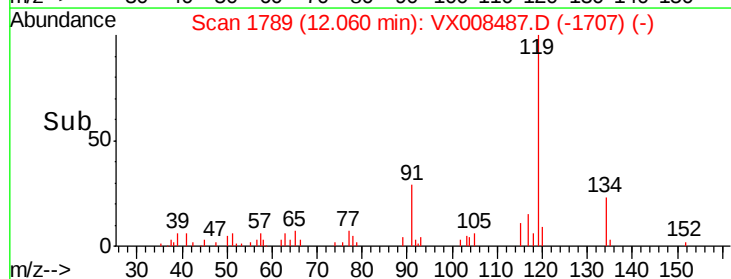
134 31.1 0.0 55.4

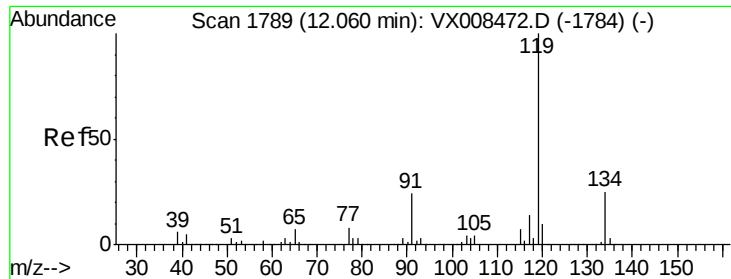


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V

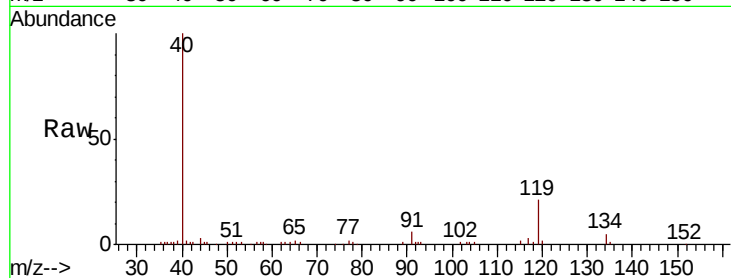




#82
 p-Isopropyltoluene
 Concen: 0.294 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX008487.D
 Acq: 27 Mar 2019 17:02

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-1H-B

Tot Ion	Ratio	Lower	Upper
119	100		
134	31.1	0.0	55.4
91	29.1	0.0	45.0



Abundance

Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

