

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031020.D
 Acq On : 10 Apr 2019 18:49
 Operator : JC/SP
 Sample : K2249-14DL 20X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE6DL

Quant Time: Apr 11 05:23:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 11 05:17:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	444949	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	439447	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	188797	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	217856	54.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.70%
7) Chloroethane-d5	1.68	69	178334	59.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	118.32%
11) 1,1-Dichloroethene-d2	2.27	63	297145	41.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.72%
21) 2-Butanone-d5	4.17	46	348720	110.78	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.78%
24) Chloroform-d	4.64	84	335954	55.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.74%
26) 1,2-Dichloroethane-d4	5.31	65	243038	58.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	117.40%
32) Benzene-d6	5.34	84	696937	54.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.66%
36) 1,2-Dichloropropane-d6	6.32	67	234660	53.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.74%
41) Toluene-d8	7.56	98	596459	52.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.90%
43) trans-1,3-Dichloropropene-	7.85	79	103294	51.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.04%
47) 2-Hexanone-d5	8.31	63	198336	98.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.70%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	328938	55.47	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.94%
64) 1,2-Dichlorobenzene-d4	11.86	152	215046	57.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	115.84%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	36798	7.519	ug/L #	82
8) Chloroethane	1.69	64	22717	8.139	ug/L	90
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2591	0.813	ug/L #	21
12) 1,1-Dichloroethene	2.28	96	8237	2.678	ug/L #	1
13) Acetone	2.32	43	2726	0.846	ug/L	96
19) 1,1-Dichloroethane	3.44	63	316547	46.969	ug/L	96
20) cis-1,2-Dichloroethene	4.22	96	300349	83.293	ug/L	94
25) Chloroform	4.66	83	19104	2.820	ug/L	94
30) 1,1,1-Trichloroethane	4.91	97	139031	25.960	ug/L	98
31) Carbon tetrachloride	4.91	117	17725	3.841	ug/L	98
39) cis-1,3-Dichloropropene	7.22	75	5713	0.986	ug/L #	54
42) Toluene	7.64	91	23384	1.593	ug/L	96
44) trans-1,3-Dichloropropene	7.85	75	3924	0.768	ug/L #	72
48) 2-Hexanone	8.37	43	14130	2.766	ug/L #	40
52) Ethylbenzene	9.25	91	13168	0.823	ug/L	90
53) m,p-Xylene	9.37	106	15139	2.713	ug/L	98
54) o-xylene	9.78	106	8354	1.505	ug/L	81

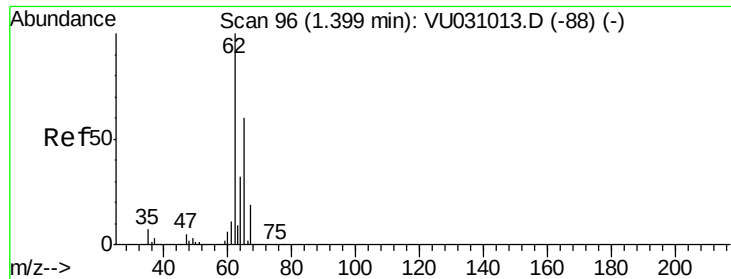
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
Data File : VU031020.D
Acq On : 10 Apr 2019 18:49
Operator : JC/SP
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Quant Time: Apr 11 05:23:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 11 05:17:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	21591	4.427	ug/L	93

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



#5

Vinyl chloride

Concen: 7.519 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

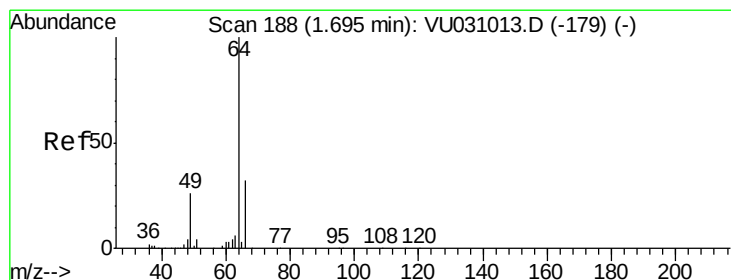
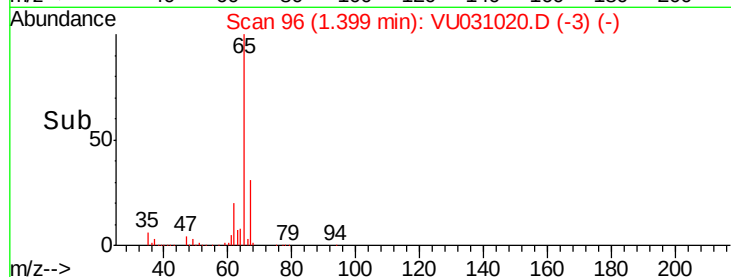
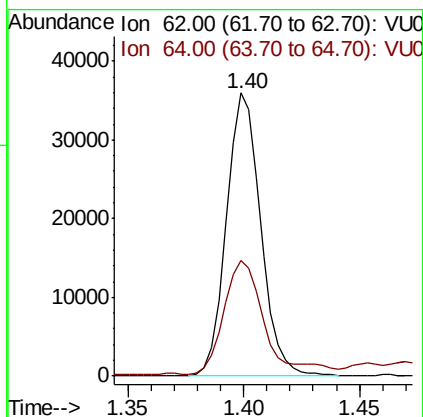
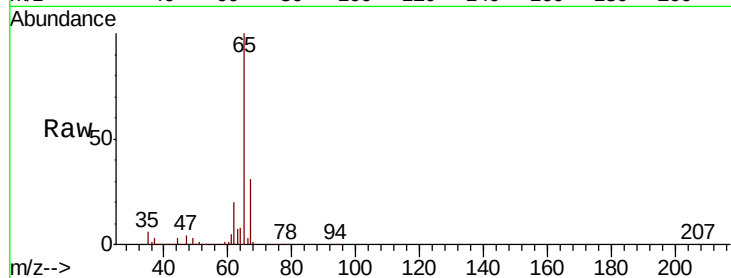
E3YE6DL

Tot Ion: 62 Resp: 36798

Ion Ratio Lower Upper

62 100

64 40.7 21.5 39.9#



#8

Chloroethane

Concen: 8.139 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU031020.D

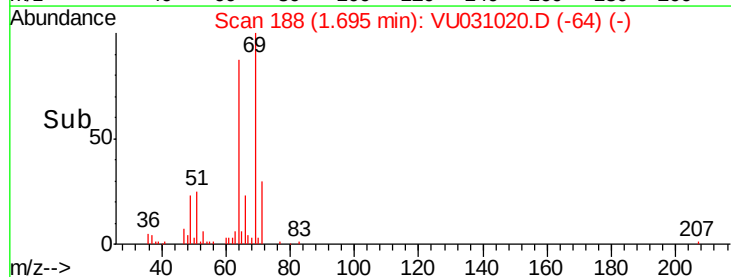
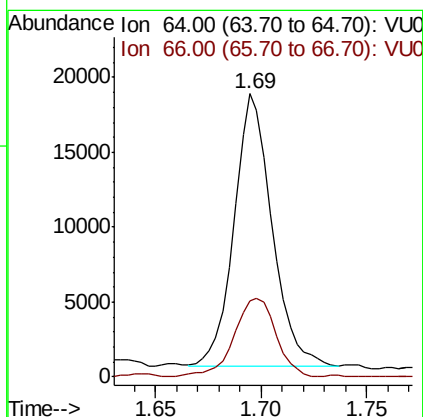
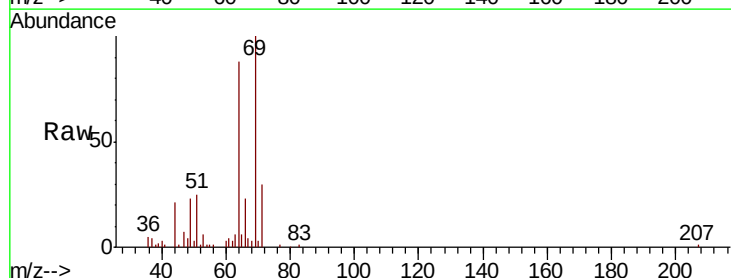
Acq: 10 Apr 2019 18:49

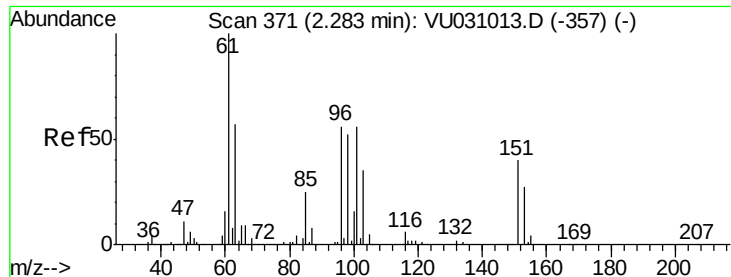
Tgt Ion: 64 Resp: 22717

Ion Ratio Lower Upper

64 100

66 26.6 22.4 41.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.813 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

E3YE6DL

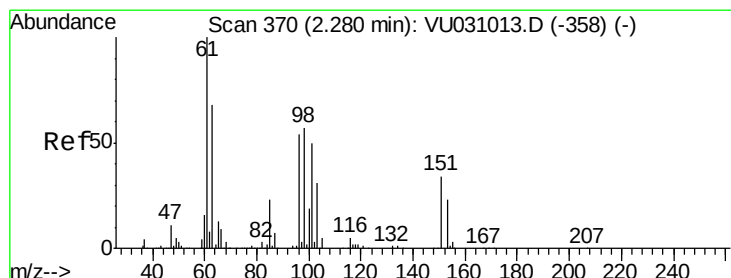
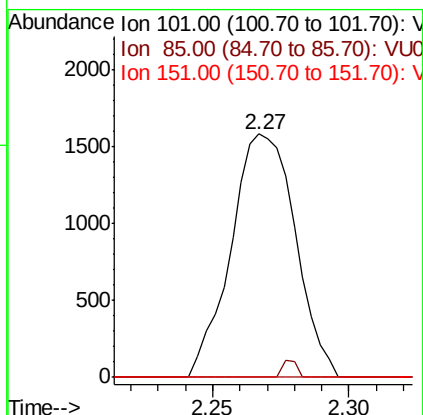
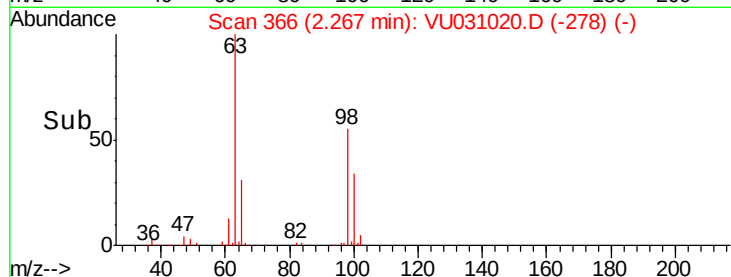
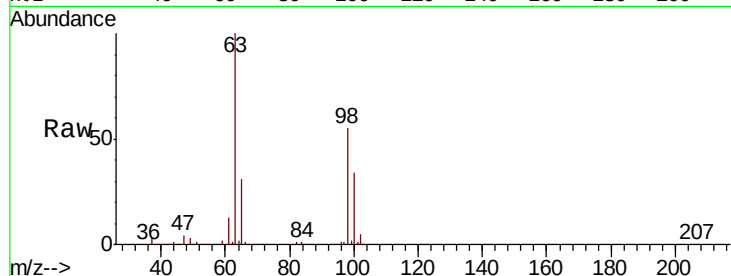
Tot Ion:101 Resp: 2591

Ion Ratio Lower Upper

101 100

85 1.6 36.8 55.2#

151 0.0 57.4 86.0#



#12

1,1-Dichloroethene

Concen: 2.678 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

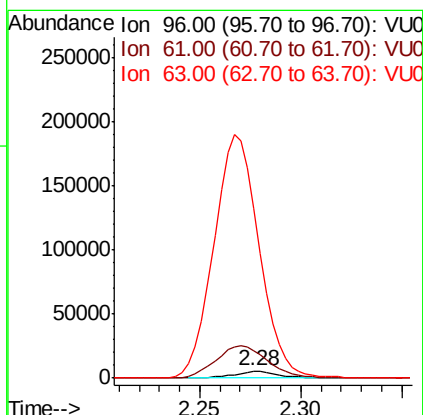
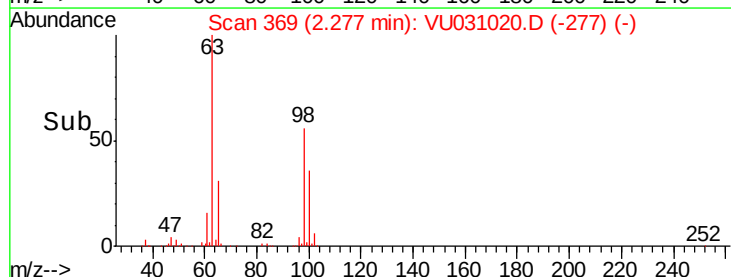
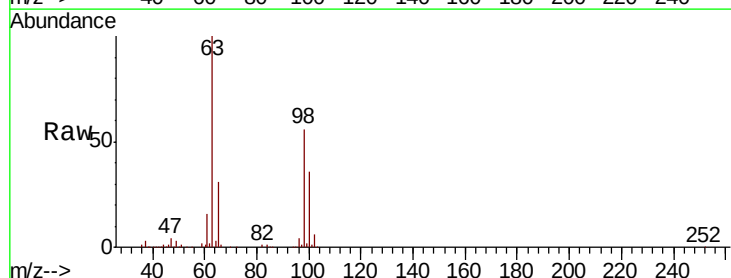
Tgt Ion: 96 Resp: 8237

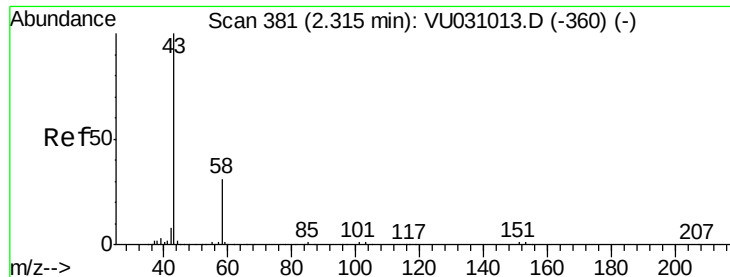
Ion Ratio Lower Upper

96 100

61 401.4 132.0 245.2#

63 2437.0 90.9 168.9#





#13

Acetone

Concen: 0.846 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

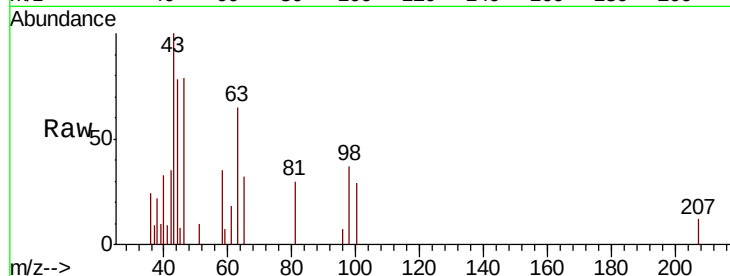
E3YE6DL

Tot Ion: 43 Resp: 2726

Ion Ratio Lower Upper

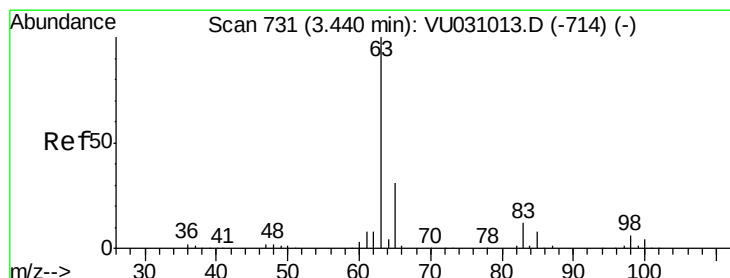
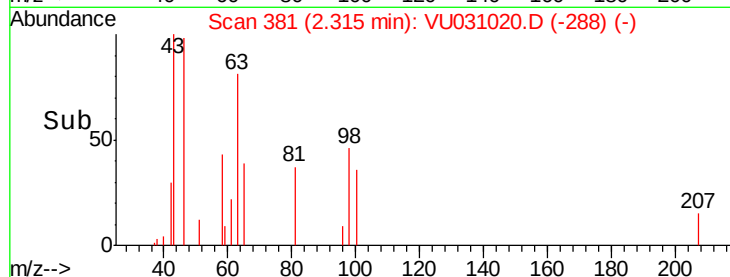
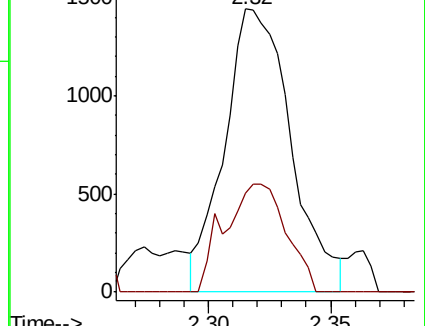
43 100

58 29.5 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031013.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU031013.D (-360) (-)



#19

1,1-Dichloroethane

Concen: 46.969 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

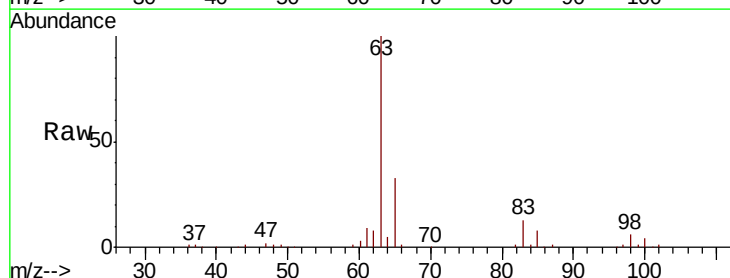
Tgt Ion: 63 Resp: 316547

Ion Ratio Lower Upper

63 100

65 32.7 21.4 39.8

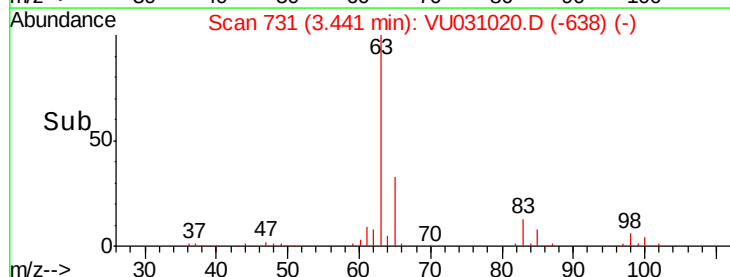
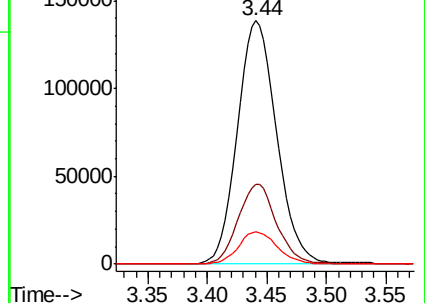
83 13.3 8.5 15.7

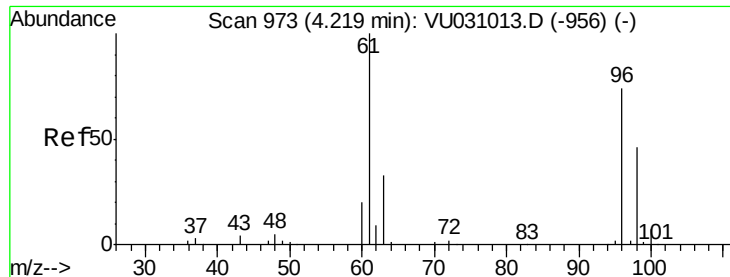


Abundance Ion 63.00 (62.70 to 63.70): VU031013.D (-714) (-)

Ion 65.00 (64.70 to 65.70): VU031013.D (-714) (-)

Ion 83.00 (82.70 to 83.70): VU031013.D (-714) (-)

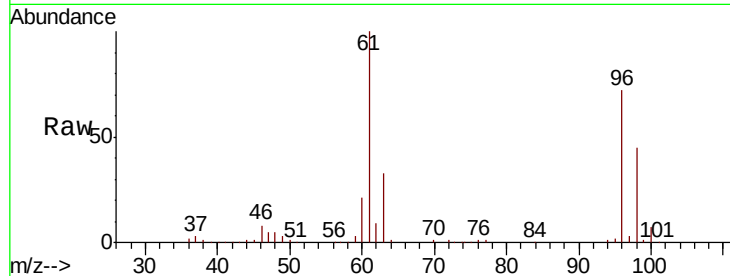




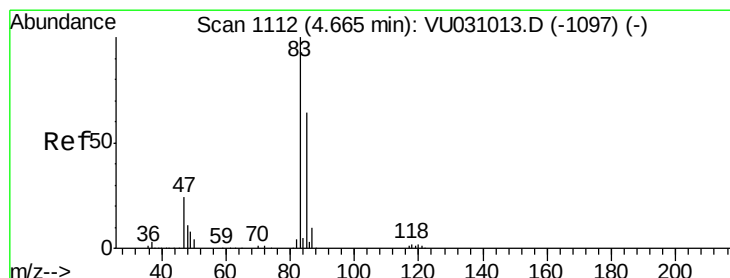
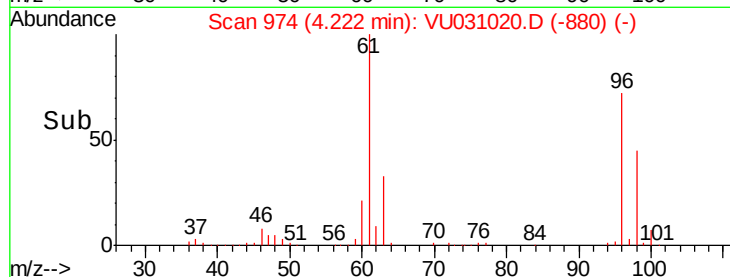
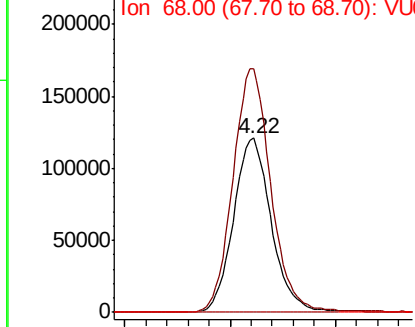
#20
 cis-1,2-Dichloroethene
 Concen: 83.293 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU031020.D
 Acq: 10 Apr 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE6DL

Tot Ion: 96 Resp: 300349
 Ion Ratio Lower Upper
 96 100
 61 139.7 102.9 191.1
 68 0.0 0.0 0.0

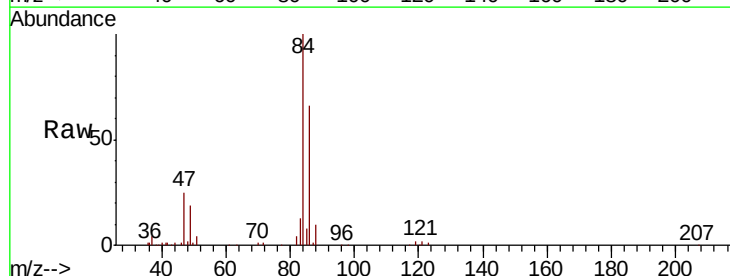


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

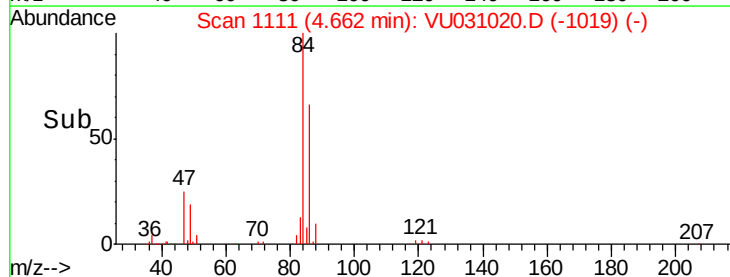
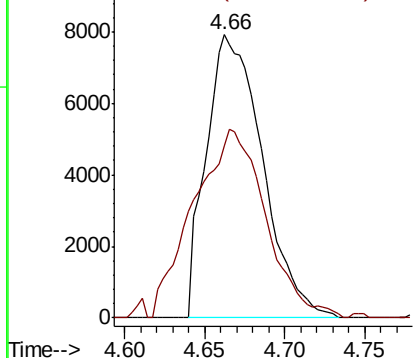


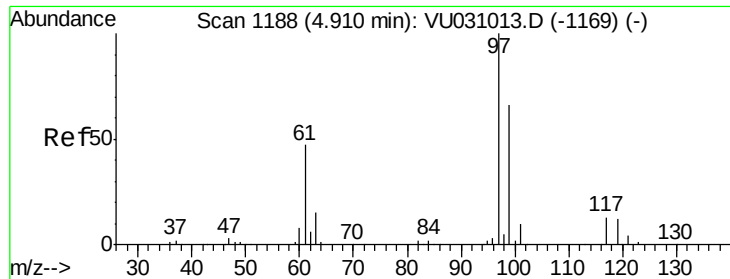
#25
 Chloroform
 Concen: 2.820 ug/L
 RT: 4.66 min Scan# 1111
 Delta R.T. -0.00 min
 Lab File: VU031020.D
 Acq: 10 Apr 2019 18:49

Tgt Ion: 83 Resp: 19104
 Ion Ratio Lower Upper
 83 100
 85 60.9 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

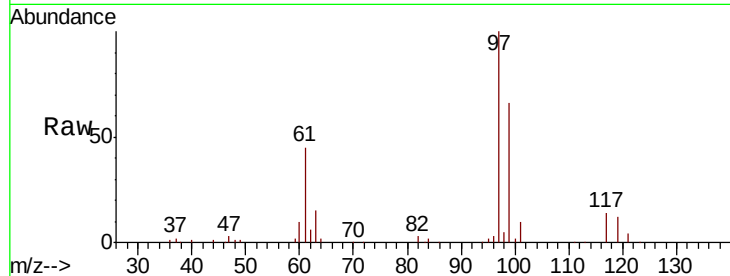




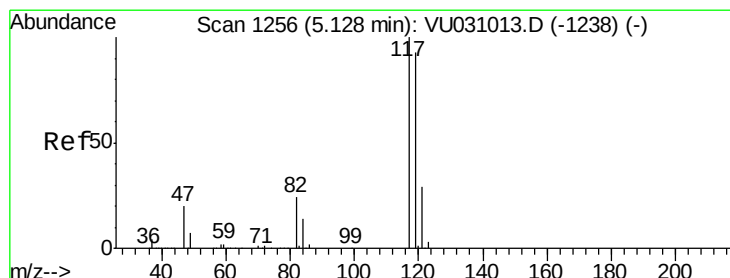
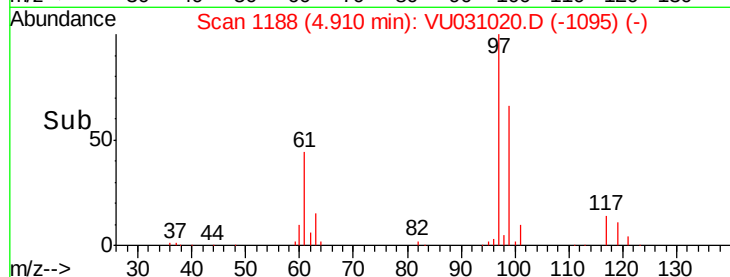
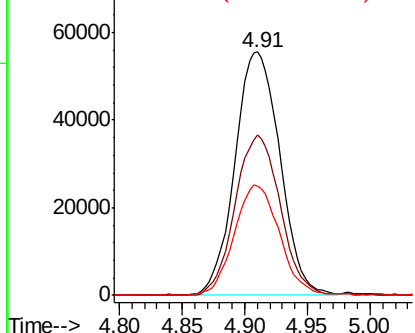
#30
 1,1,1-Trichloroethane
 Concen: 25.960 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU031020.D
 Acq: 10 Apr 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE6DL

Tot Ion: 97 Resp: 139031
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.4 77.2
 61 45.0 37.1 55.7

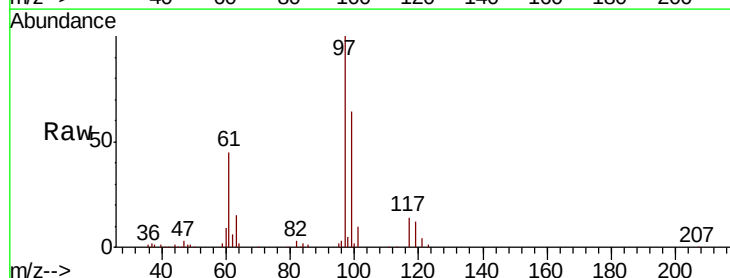


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

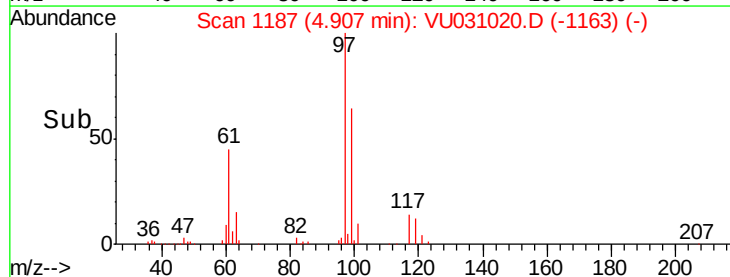
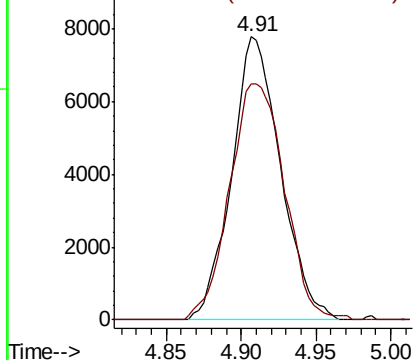


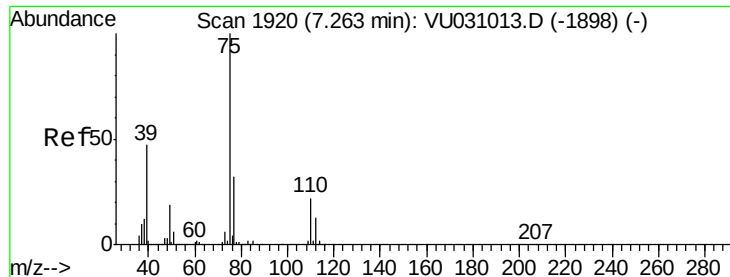
#31
 Carbon tetrachloride
 Concen: 3.841 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. -0.22 min
 Lab File: VU031020.D
 Acq: 10 Apr 2019 18:49

Tgt Ion: 117 Resp: 17725
 Ion Ratio Lower Upper
 117 100
 119 93.3 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#39

cis-1,3-Dichloropropene

Concen: 0.986 ug/L

RT: 7.22 min Scan# 1908

Delta R.T. -0.04 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

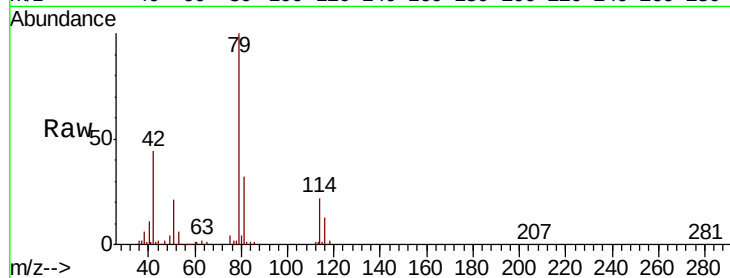
E3YE6DL

Tot Ion: 75 Resp: 5713

Ion Ratio Lower Upper

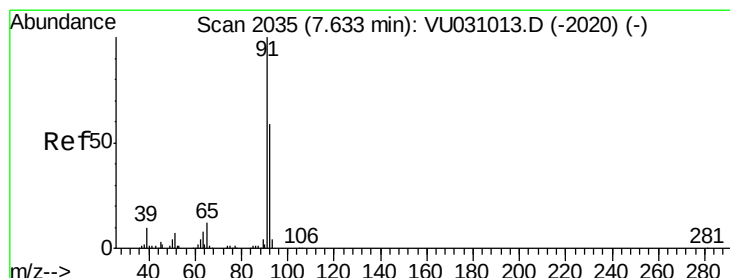
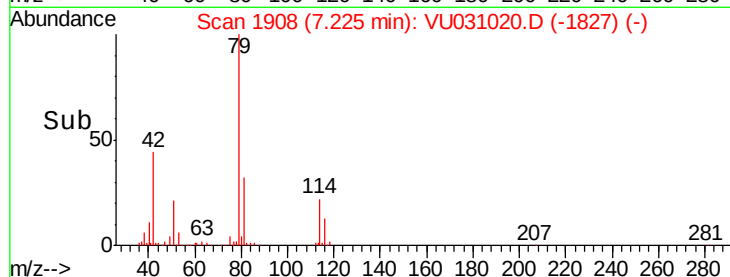
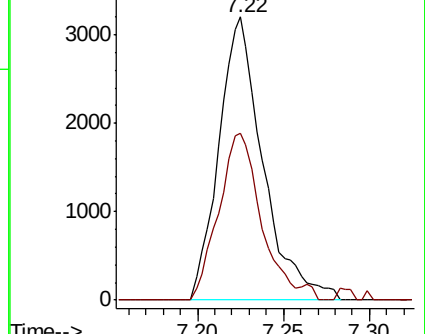
75 100

77 59.0 23.1 42.9#



Abundance Ion 75.00 (74.70 to 75.70): VU031013.D (-1898) (-)

Ion 77.00 (76.70 to 77.70): VU031013.D (-1898) (-)



#42

Toluene

Concen: 1.593 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031020.D

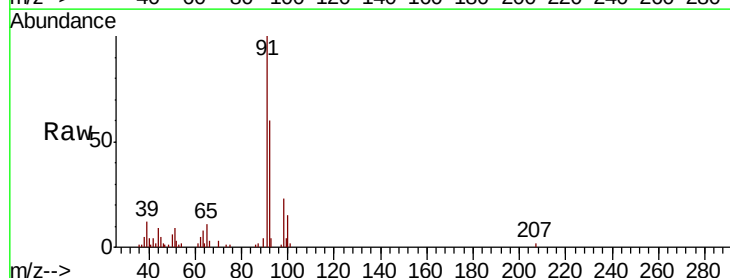
Acq: 10 Apr 2019 18:49

Tgt Ion: 91 Resp: 23384

Ion Ratio Lower Upper

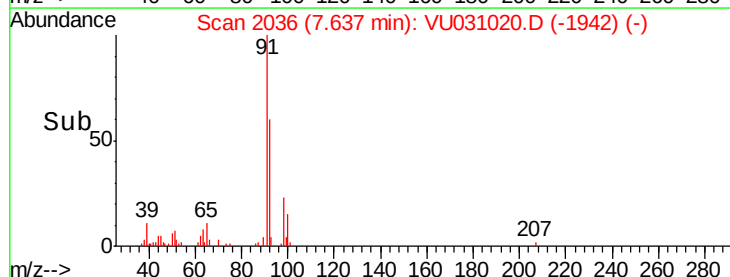
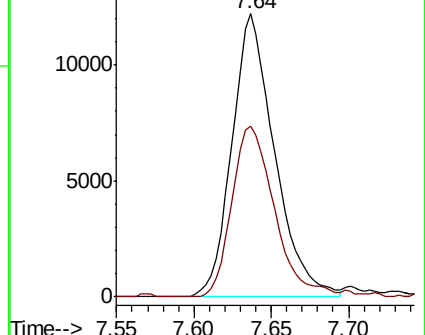
91 100

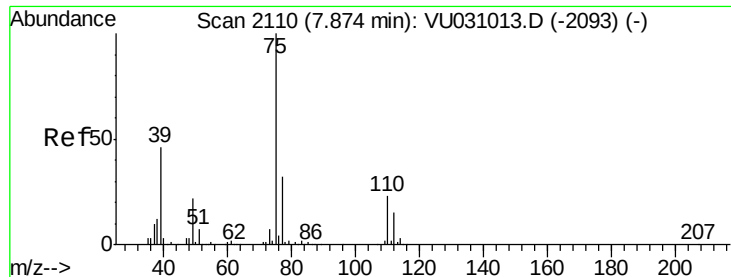
92 60.1 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU031013.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031013.D (-2020) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.768 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

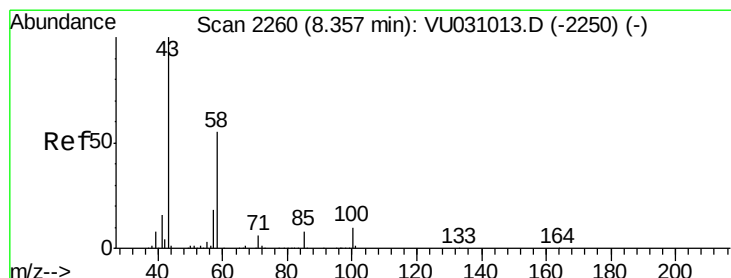
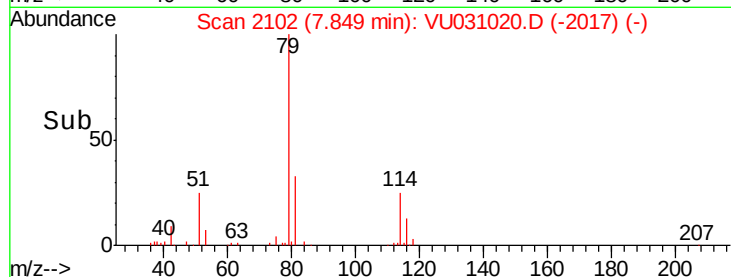
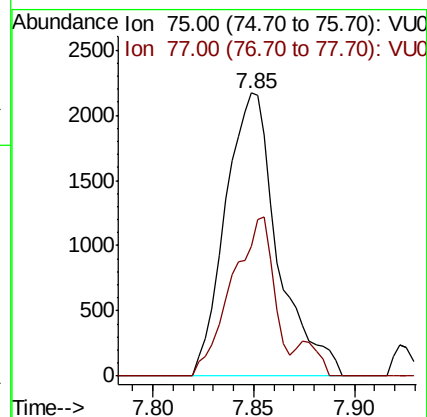
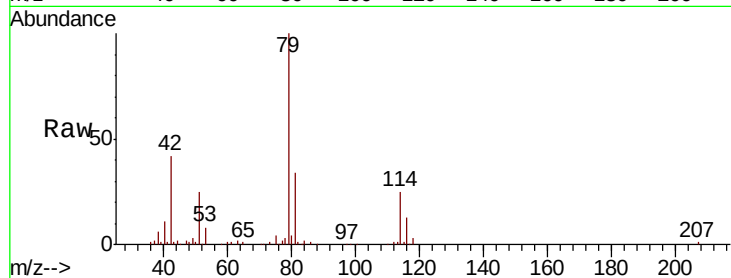
E3YE6DL

Tot Ion: 75 Resp: 3924

Ion Ratio Lower Upper

75 100

77 45.9 21.6 40.0#



#48

2-Hexanone

Concen: 2.766 ug/L

RT: 8.37 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Tgt Ion: 43 Resp: 14130

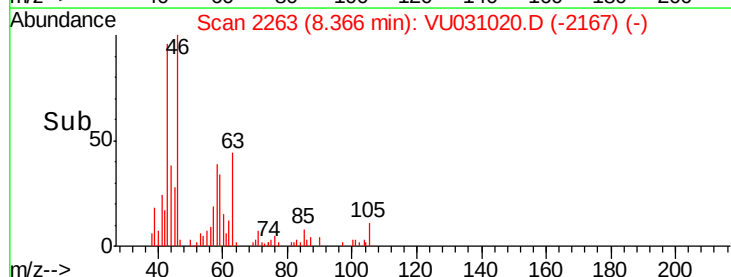
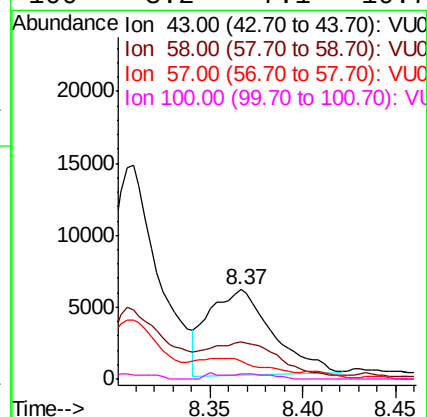
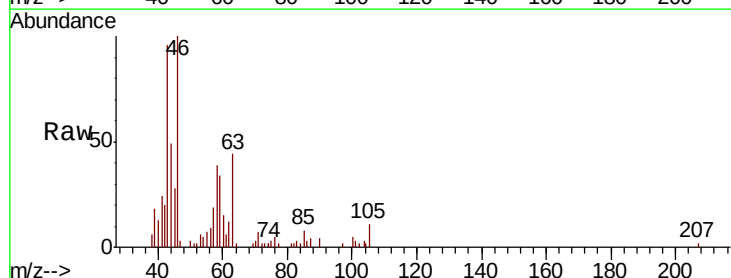
Ion Ratio Lower Upper

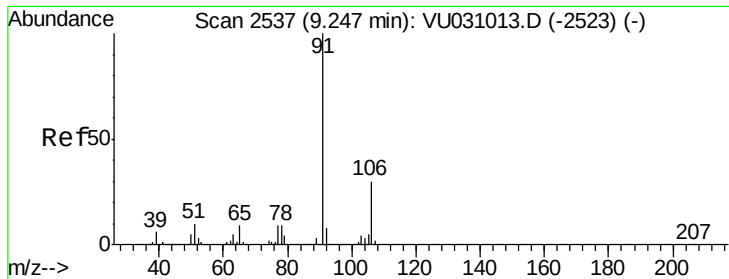
43 100

58 0.0 41.9 62.9#

57 0.0 14.3 21.5#

100 3.2 7.1 10.7#





#52

Ethylbenzene

Concen: 0.823 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

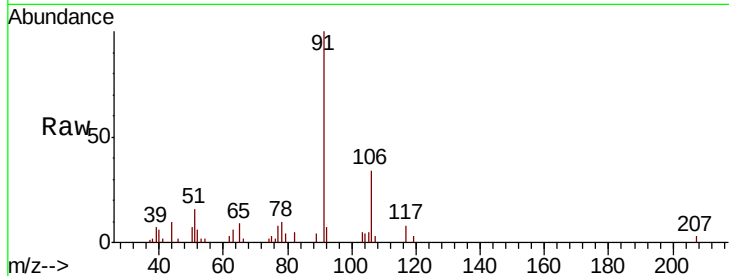
E3YE6DL

Tot Ion: 91 Resp: 13168

Ion Ratio Lower Upper

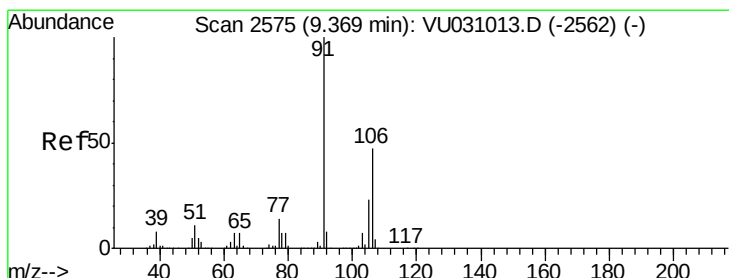
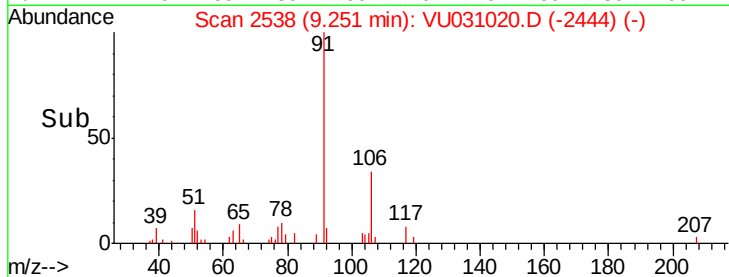
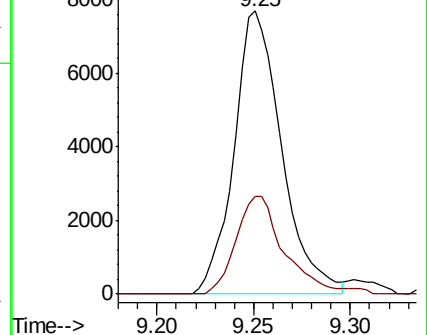
91 100

106 34.3 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031013.D (-2523) (-)

Ion 106.00 (105.70 to 106.70): VU031013.D (-2523) (-)



#53

m,p-Xylene

Concen: 2.713 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU031020.D

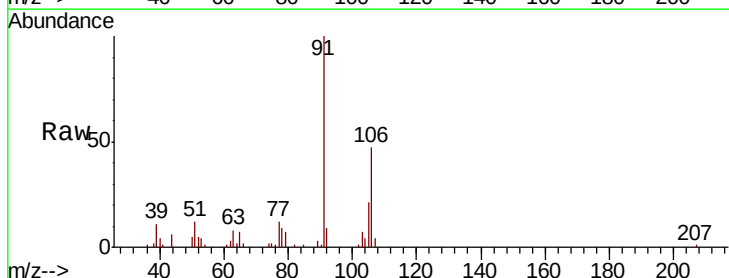
Acq: 10 Apr 2019 18:49

Tgt Ion: 106 Resp: 15139

Ion Ratio Lower Upper

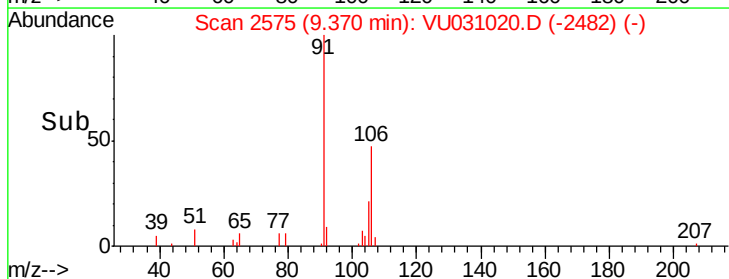
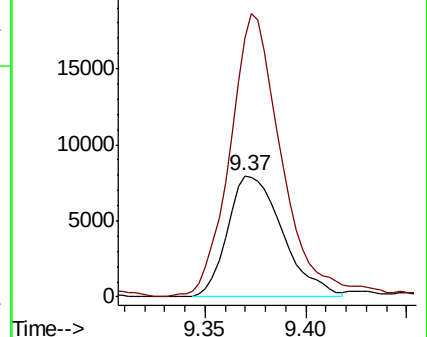
106 100

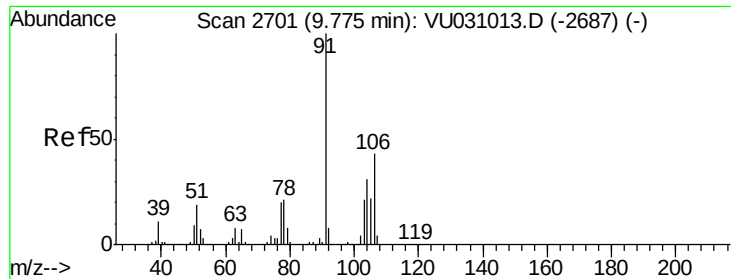
91 214.5 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU031013.D (-2562) (-)

Ion 91.00 (90.70 to 91.70): VU031013.D (-2562) (-)





#54

o-xylene

Concen: 1.505 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU031020.D

Acq: 10 Apr 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

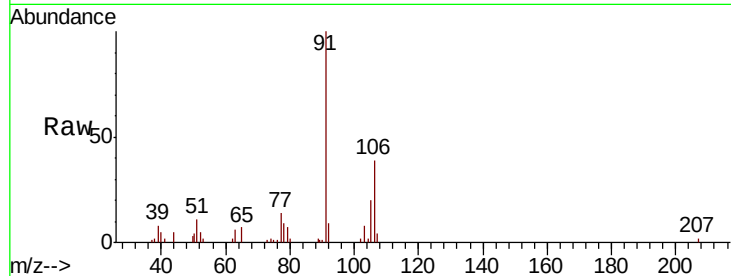
E3YE6DL

Tot Ion:106 Resp: 8354

Ion Ratio Lower Upper

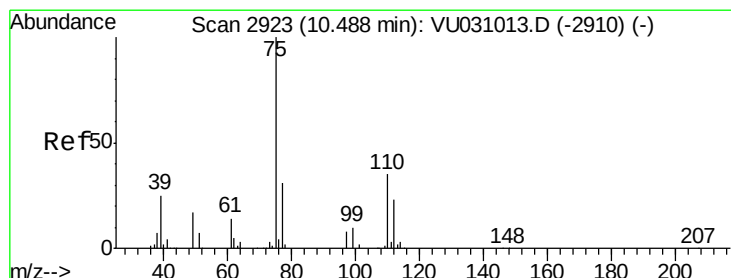
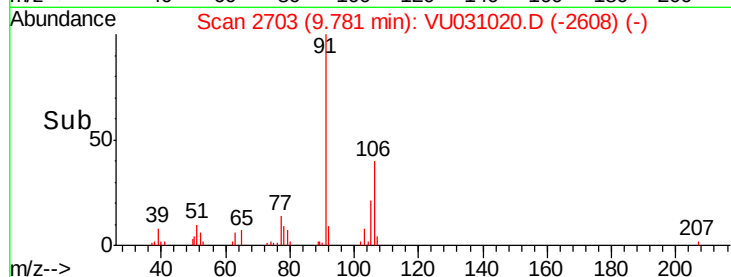
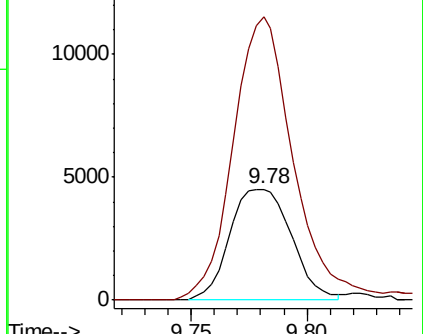
106 100

91 254.9 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): VU031013.D (-2687) (-)

Ion 91.00 (90.70 to 91.70): VU031013.D (-2687) (-)



#59

1,2,3-Trichloropropane

Concen: 4.427 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU031020.D

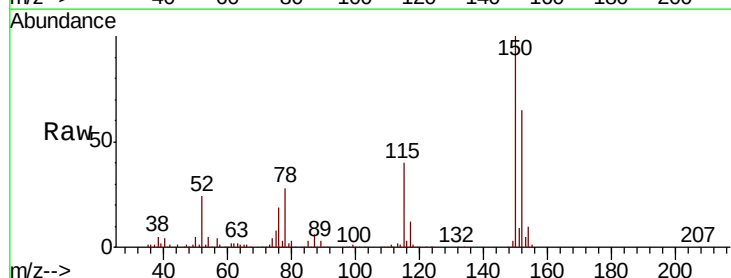
Acq: 10 Apr 2019 18:49

Tgt Ion: 75 Resp: 21591

Ion Ratio Lower Upper

75 100

77 36.5 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU031013.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031013.D (-2910) (-)

