

Data File : VU030354.D
Acq On : 23 Mar 2019 20:44
Operator : JC/SP
Sample : K2063-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB6R6

Quant Time: Mar 24 02:13:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	475627	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	467664	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	240912	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	153115	40.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.00%
7) Chloroethane-d5	1.68	69	132573	43.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.40%
11) 1,1-Dichloroethene-d2	2.27	63	226742	31.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.46%
21) 2-Butanone-d5	4.17	46	322226	89.55	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.55%
24) Chloroform-d	4.65	84	283927	43.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.10%
26) 1,2-Dichloroethane-d4	5.31	65	191213	44.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.62%
32) Benzene-d6	5.34	84	608500	45.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.74%
36) 1,2-Dichloropropane-d6	6.33	67	208379	45.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.82%
41) Toluene-d8	7.57	98	581350	48.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.54%
43) trans-1,3-Dichloropropene-	7.85	79	99235	45.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.98%
47) 2-Hexanone-d5	8.31	63	244348	98.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.27%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	299277	45.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.16%
64) 1,2-Dichlorobenzene-d4	11.86	152	221420	45.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.74%

Target Compounds

					Qvalue
6) Bromomethane	1.63	94	9910	3.881 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	9087	2.618 ug/L	89
13) Acetone	2.31	43	179157	49.233 ug/L	69
18) Methyl tert-butyl Ether	3.00	73	516320	43.732 ug/L #	1
22) 2-Butanone	4.27	43	44354	10.084 ug/L	77
25) Chloroform	4.73	83	26898	3.862 ug/L	90
27) 1,2-Dichloroethane	5.40	62	703305	128.701 ug/L #	86
29) Cyclohexane	4.99	56	2086383	294.803 ug/L	98
35) Methylcyclohexane	6.41	83	1277622	198.387 ug/L	93
37) 1,2-Dichloropropane	6.41	63	12385	2.741 ug/L #	87
39) cis-1,3-Dichloropropene	7.23	75	6028	0.928 ug/L #	23
40) 4-Methyl-2-pentanone	7.47	43	35467	4.674 ug/L #	84
44) trans-1,3-Dichloropropene	7.85	75	3533	0.618 ug/L #	1
45) 1,1,2-Trichloroethane	8.04	97	71669	18.775 ug/L #	19
48) 2-Hexanone	8.36	43	140305	22.559 ug/L #	41
50) 1,2-Dibromoethane	8.58	107	771493	188.317 ug/L	99
55) Styrene	9.80	104	1801035	165.809 ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\
Quantitation Report (Not Reviewed)

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ALS Vial : 20 Sample Multiplier: 1

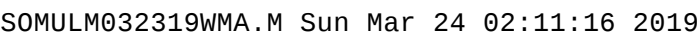
Instrument :
MSVOA_U
ClientSampleId :
DB6R6

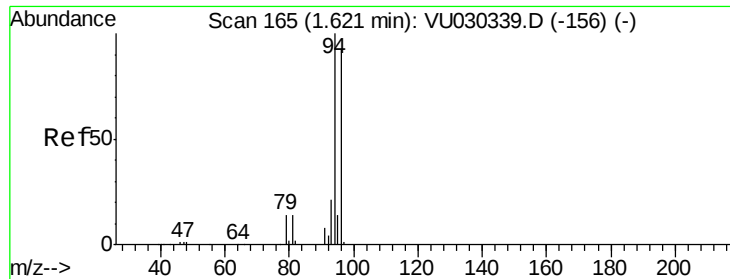
Quant Time: Mar 24 02:13:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.16	105	1576950	94.448	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	9638	5.433	ug/L #	5
68) 1,2,4-trichlorobenzene	13.50	180	2922	0.570	ug/L #	1
69) Naphthalene	13.74	128	12036446	660.529	ug/L	99

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

Quant Time: Mar 24 02:13:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration





#6

Bromomethane

Concen: 3.881 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

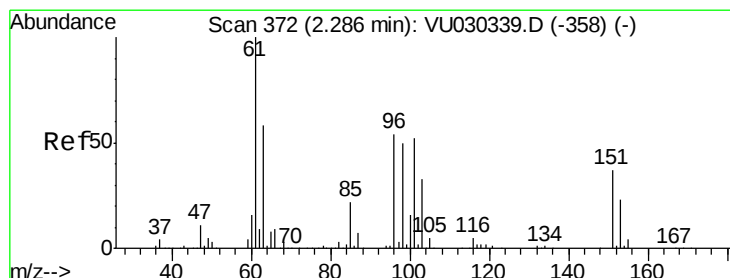
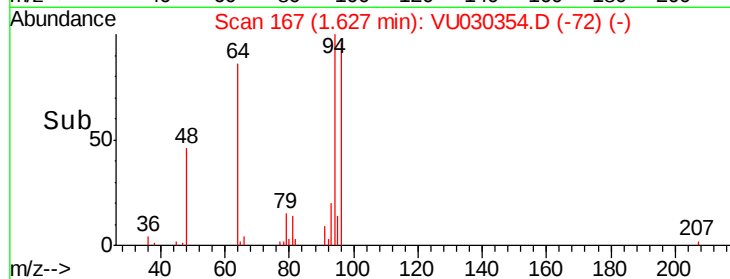
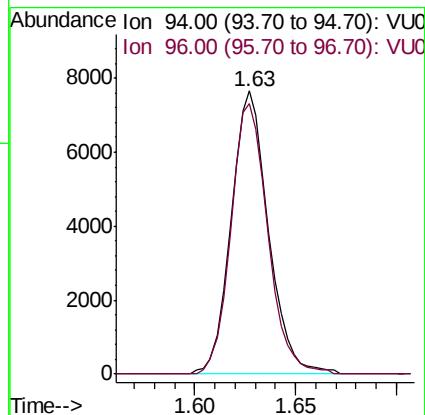
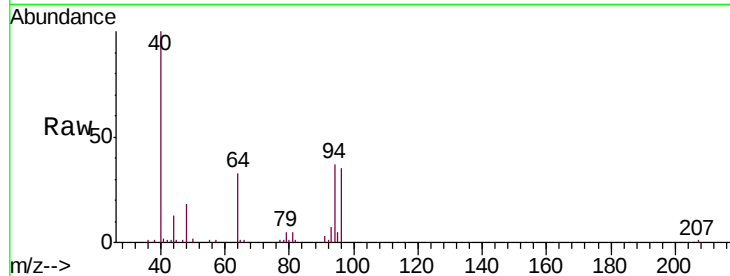
DB6R6

Tgt Ion: 94 Resp: 9910

Ion Ratio Lower Upper

94 100

96 95.7 64.8 120.3



#10

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

Concen: 2.618 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

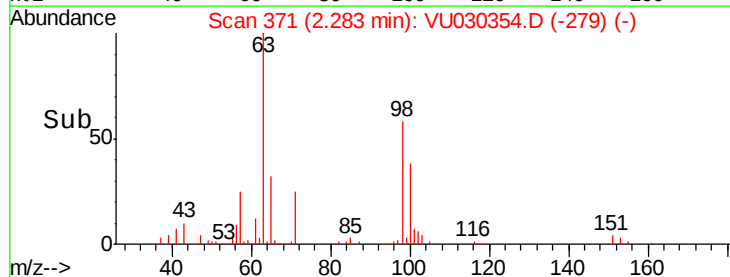
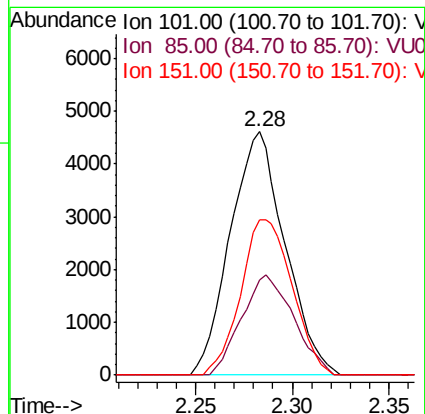
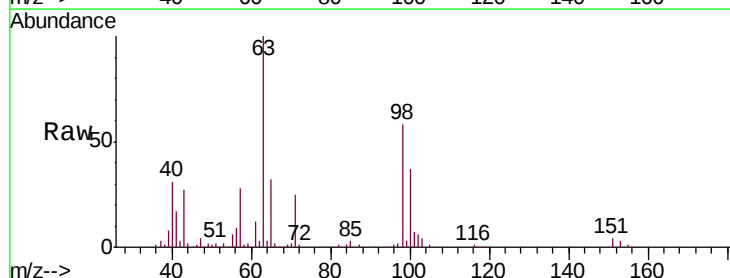
Tgt Ion: 101 Resp: 9087

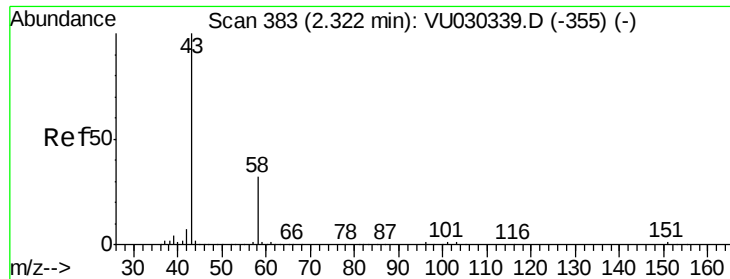
Ion Ratio Lower Upper

101 100

85 39.1 34.8 52.2

151 59.9 56.6 85.0





#13

Acetone

Concen: 49.233 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

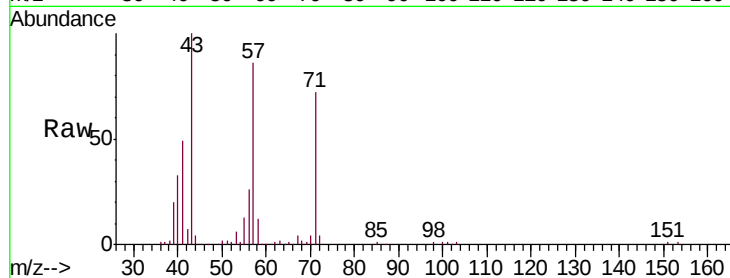
DB6R6

Tgt Ion: 43 Resp: 179157

Ion Ratio Lower Upper

43 100

58 14.1 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030339.D (-355) (-)

Ion 58.00 (57.70 to 58.70): VU030339.D (-355) (-)

2.31

80000

60000

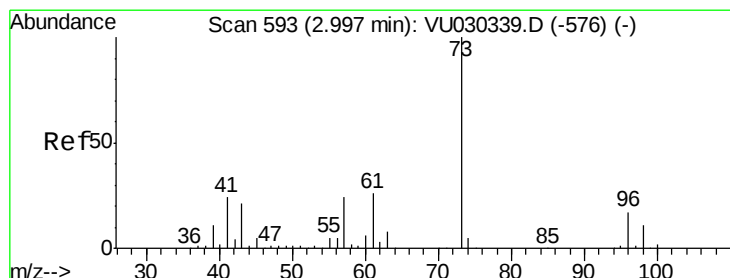
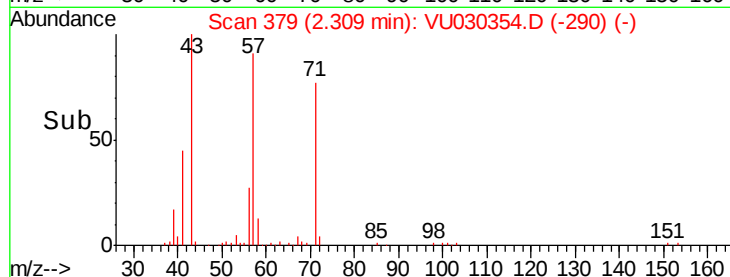
40000

20000

0

Time-->

2.20 2.30 2.40



#18

Methyl tert-butyl Ether

Concen: 43.732 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

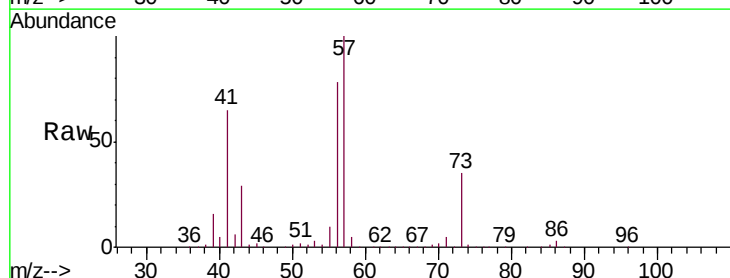
Tgt Ion: 73 Resp: 516320

Ion Ratio Lower Upper

73 100

43 82.1 16.6 24.8#

57 284.7 18.9 28.3#



Abundance Ion 73.00 (72.70 to 73.70): VU030339.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030339.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030339.D (-576) (-)

800000

600000

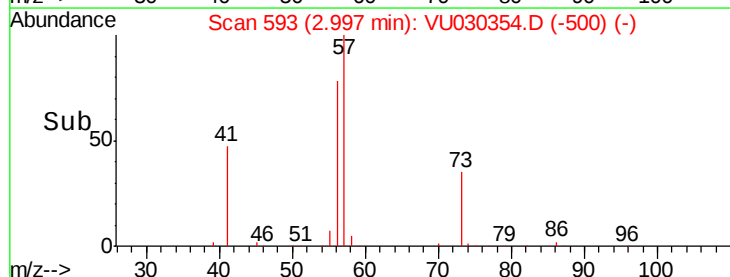
400000

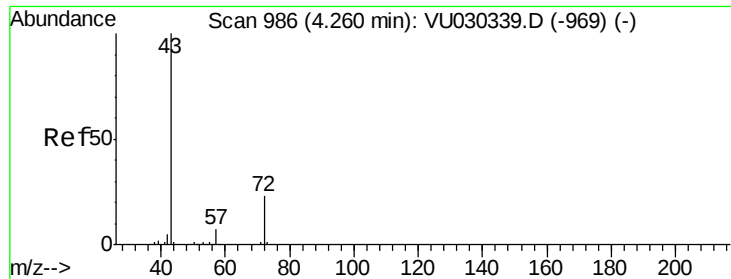
200000

0

Time-->

2.90 3.00 3.10





#22

2-Butanone

Concen: 10.084 ug/L

RT: 4.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

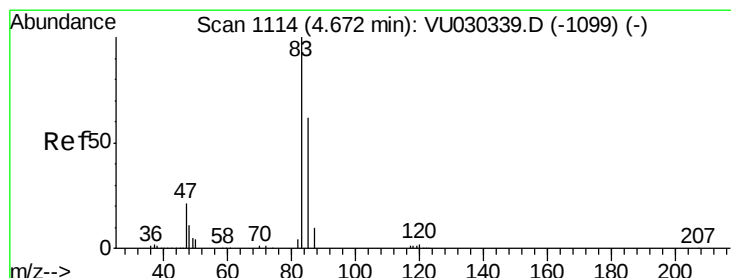
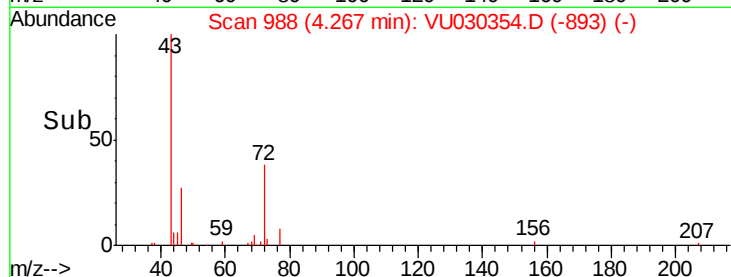
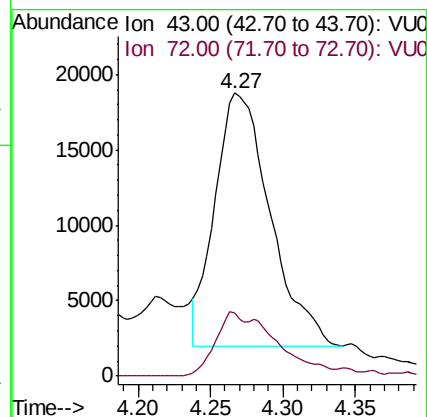
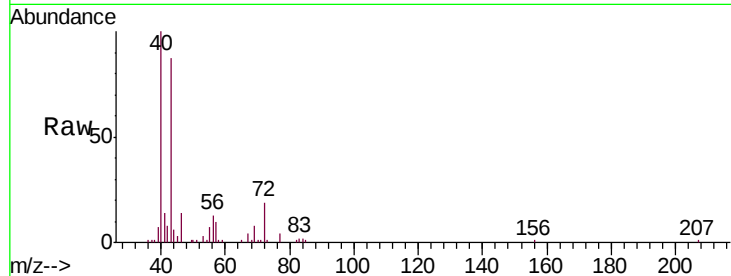
DB6R6

Tgt Ion: 43 Resp: 44354

Ion Ratio Lower Upper

43 100

72 12.8 12.0 36.1



#25

Chloroform

Concen: 3.862 ug/L

RT: 4.73 min Scan# 1132

Delta R.T. 0.06 min

Lab File: VU030354.D

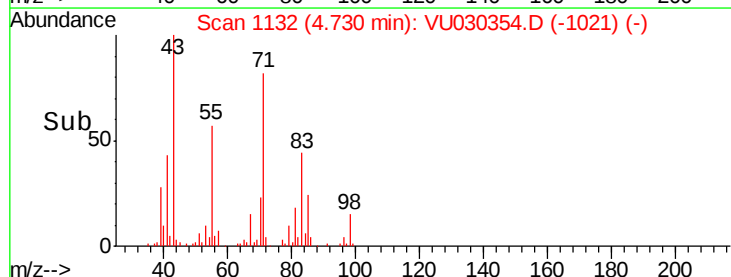
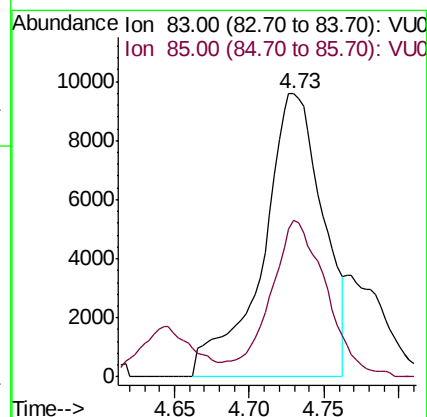
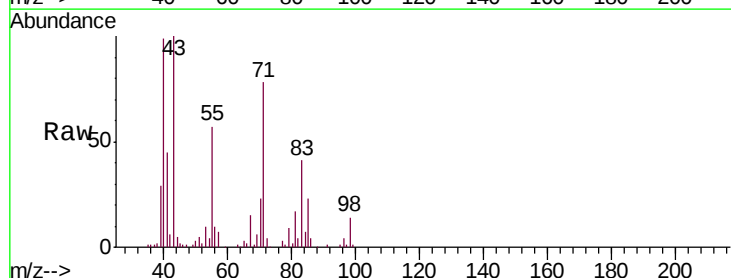
Acq: 23 Mar 2019 20:44

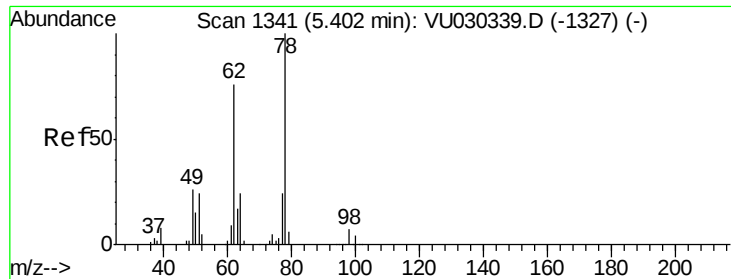
Tgt Ion: 83 Resp: 26898

Ion Ratio Lower Upper

83 100

85 55.3 44.4 82.4

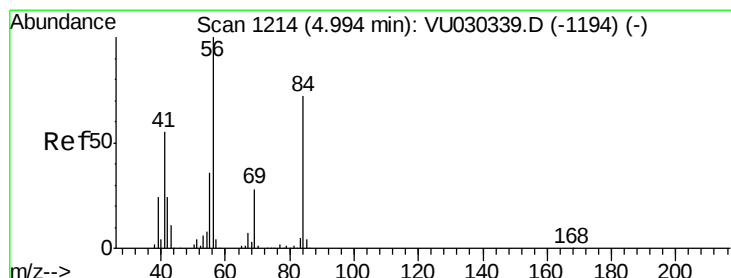
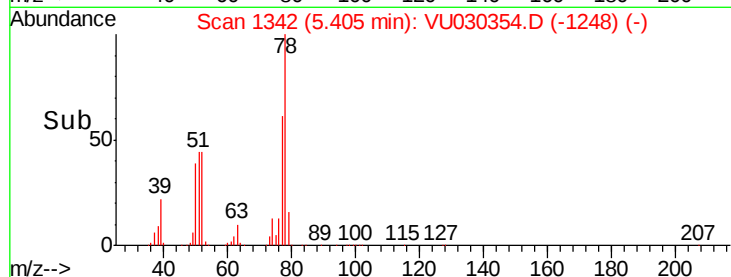
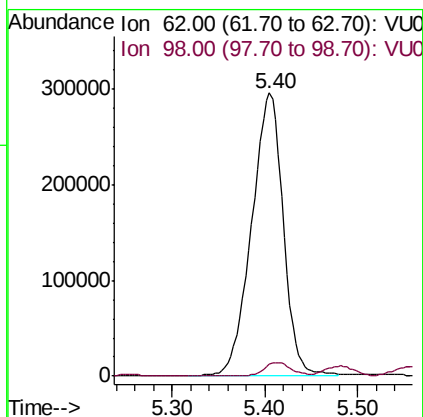
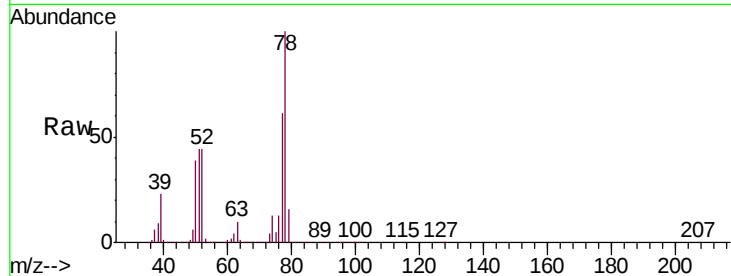




#27
 1,2-Dichloroethane
 Concen: 128.701 ug/L
 RT: 5.40 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VU030354.D
 Acq: 23 Mar 2019 20:44

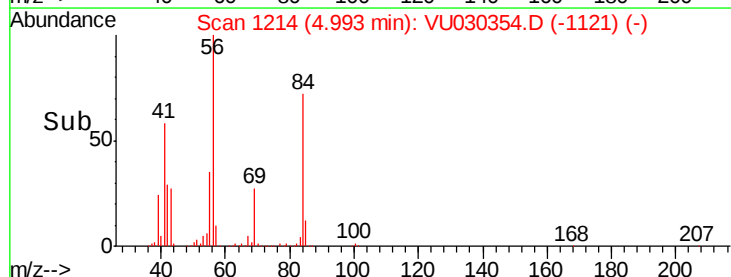
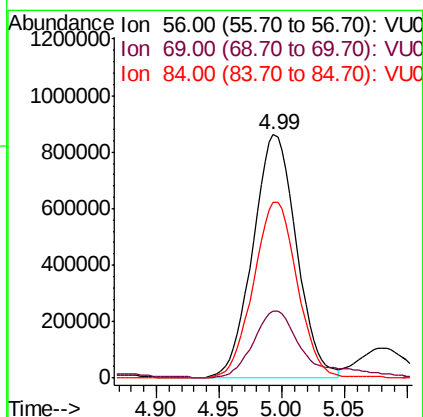
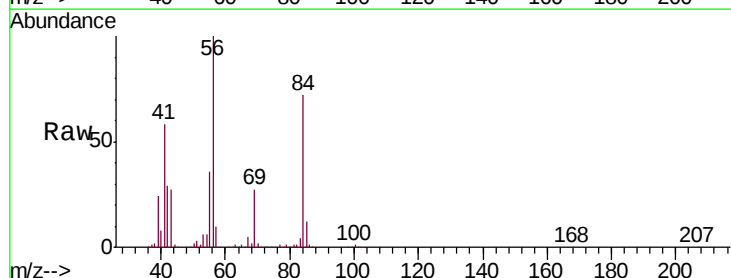
Instrument :
 MSVOA_U
 ClientSampleId :
 DB6R6

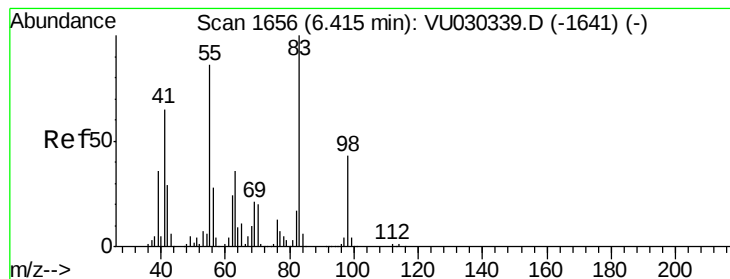
Tgt Ion: 62 Resp: 703305
 Ion Ratio Lower Upper
 62 100
 98 4.1 7.2 10.8#



#29
 Cyclohexane
 Concen: 294.803 ug/L
 RT: 4.99 min Scan# 1214
 Delta R.T. -0.00 min
 Lab File: VU030354.D
 Acq: 23 Mar 2019 20:44

Tgt Ion: 56 Resp: 2086383
 Ion Ratio Lower Upper
 56 100
 69 32.3 22.9 34.3
 84 73.1 58.9 88.3





#35

Methylcyclohexane

Concen: 198.387 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

DB6R6

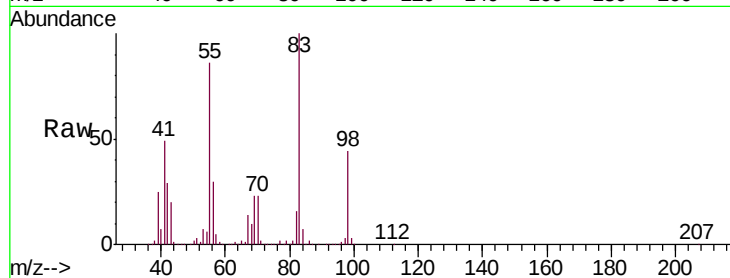
Tgt Ion: 83 Resp: 1277622

Ion Ratio Lower Upper

83 100

55 97.9 71.4 107.0

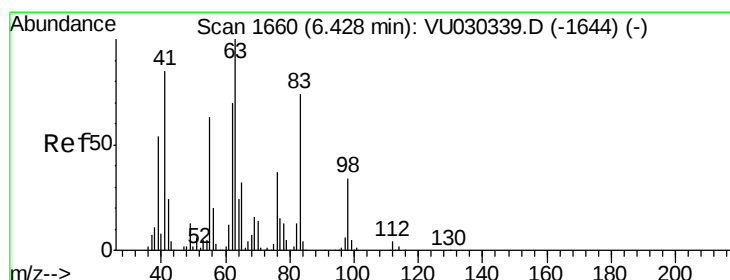
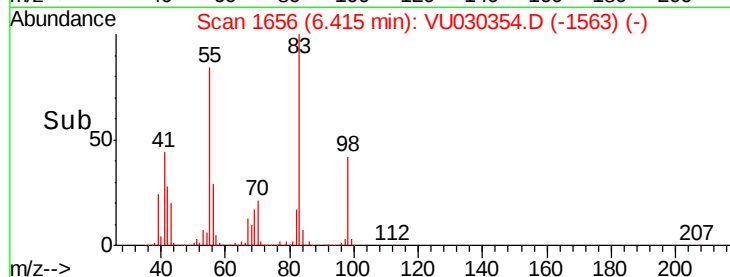
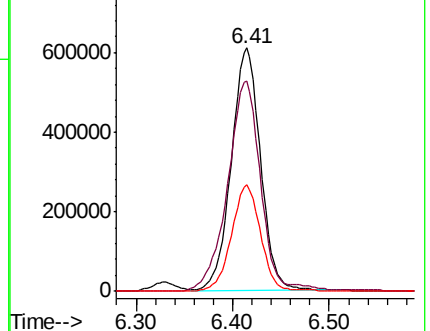
98 44.0 36.0 54.0



Abundance Ion 83.00 (82.70 to 83.70): VU030339.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU030339.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU030339.D (-1641) (-)



#37

1,2-Dichloropropane

Concen: 2.741 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. -0.01 min

Lab File: VU030354.D

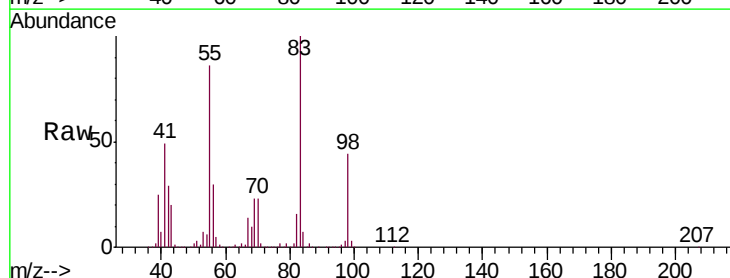
Acq: 23 Mar 2019 20:44

Tgt Ion: 63 Resp: 12385

Ion Ratio Lower Upper

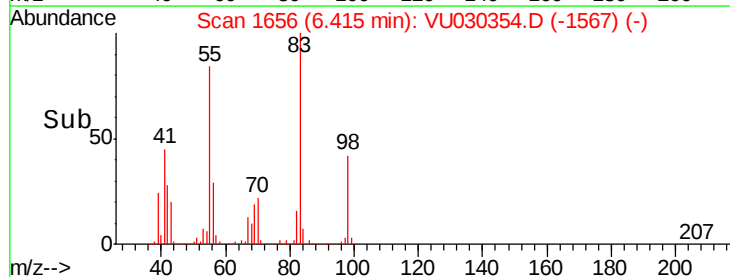
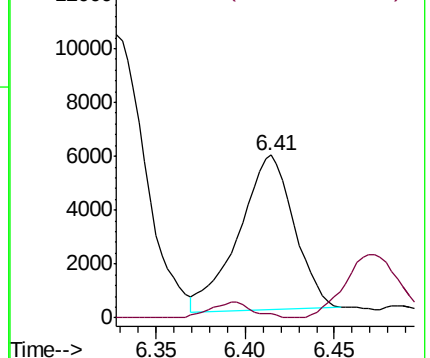
63 100

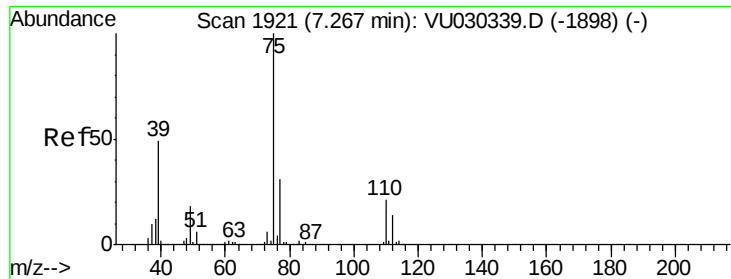
112 7.6 2.6 4.0#



Abundance Ion 63.00 (62.70 to 63.70): VU030339.D (-1644) (-)

Ion 112.00 (111.70 to 112.70): VU030339.D (-1644) (-)

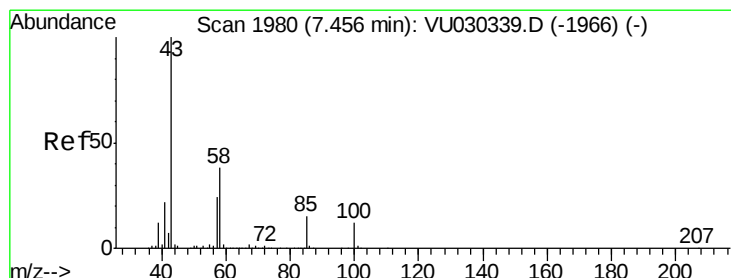
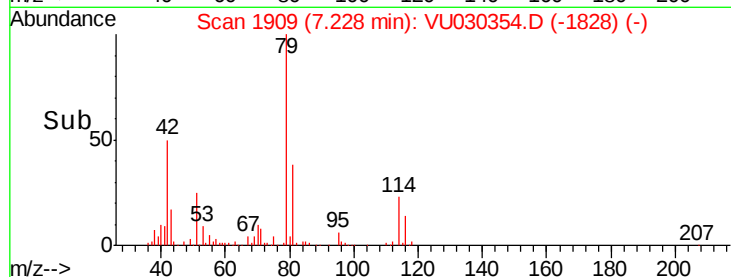
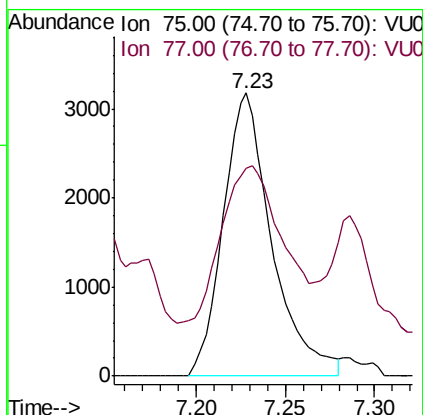
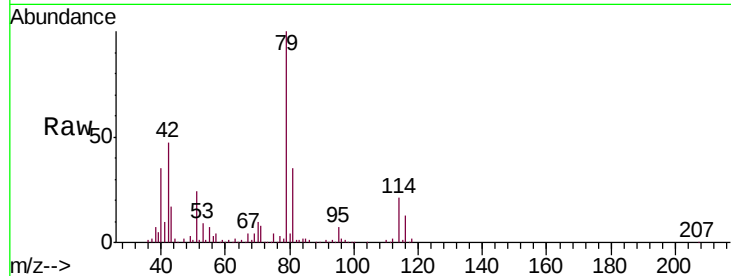




#39
 cis-1,3-Dichloropropene
 Concen: 0.928 ug/L
 RT: 7.23 min Scan# 1909
 Delta R.T. -0.04 min
 Lab File: VU030354.D
 Acq: 23 Mar 2019 20:44

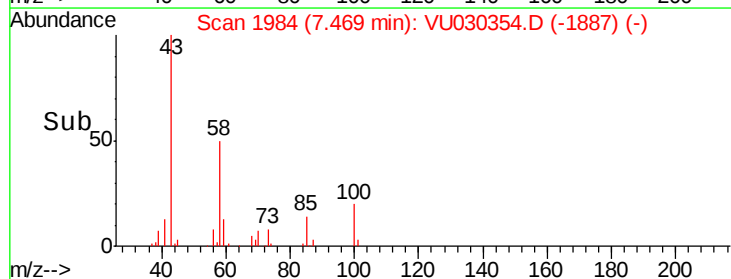
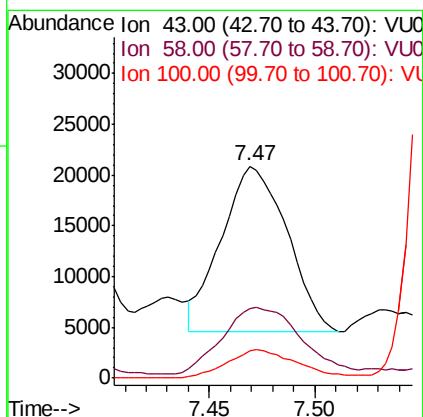
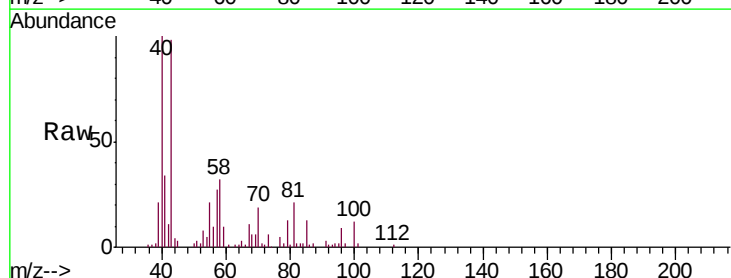
Instrument :
 MSVOA_U
 ClientSampleId :
 DB6R6

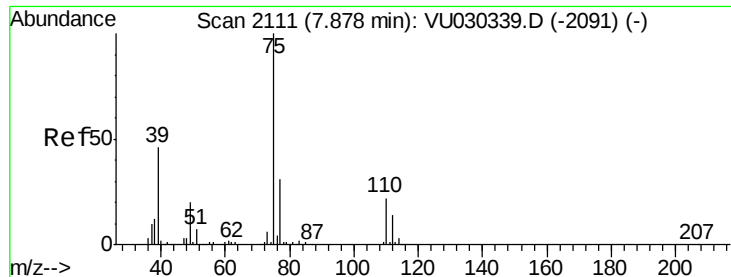
Tgt Ion: 75 Resp: 6028
 Ion Ratio Lower Upper
 75 100
 77 73.6 21.8 40.6#



#40
 4-Methyl-2-pentanone
 Concen: 4.674 ug/L
 RT: 7.47 min Scan# 1984
 Delta R.T. 0.01 min
 Lab File: VU030354.D
 Acq: 23 Mar 2019 20:44

Tgt Ion: 43 Resp: 35467
 Ion Ratio Lower Upper
 43 100
 58 48.1 30.6 45.8#
 100 18.2 9.5 14.3#





#44

trans-1,3-Dichloropropene

Concen: 0.618 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

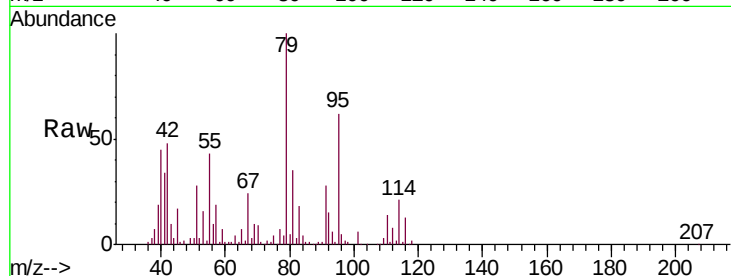
DB6R6

Tgt Ion: 75 Resp: 3533

Ion Ratio Lower Upper

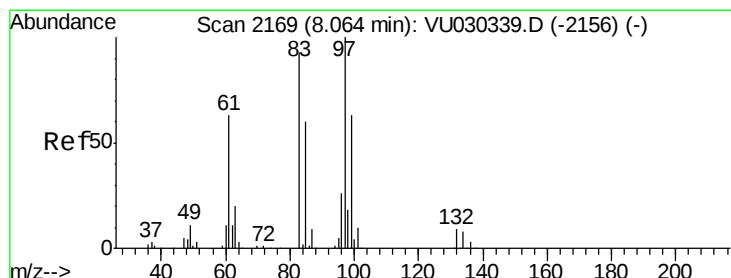
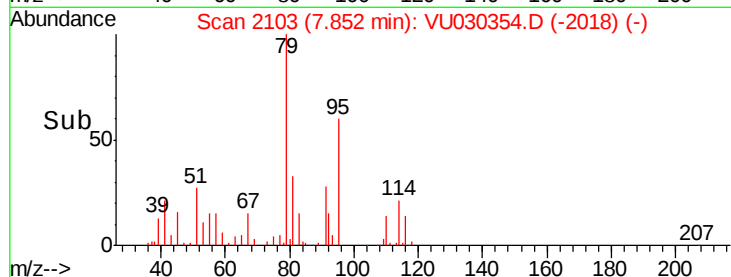
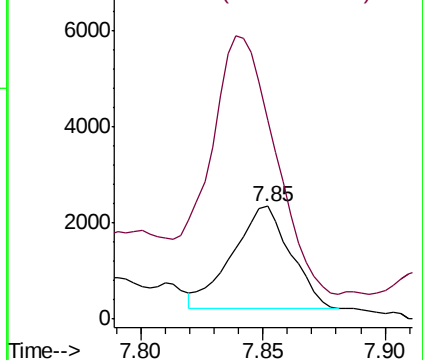
75 100

77 177.1 22.0 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VU030339.D (-2091) (-)

Ion 77.00 (76.70 to 77.70): VU030339.D (-2091) (-)



#45

1,1,2-Trichloroethane

Concen: 18.775 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. -0.02 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Tgt Ion: 97 Resp: 71669

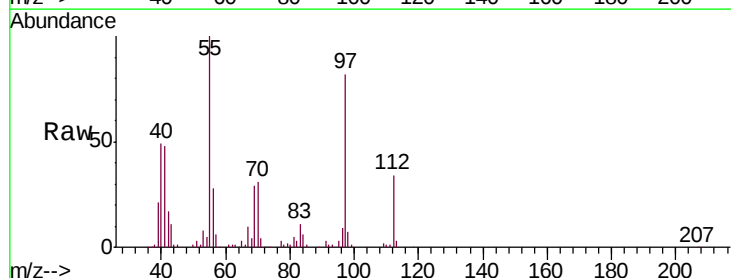
Ion Ratio Lower Upper

97 100

99 0.7 44.0 81.8#

83 13.6 65.3 121.3#

85 0.7 41.8 77.6#

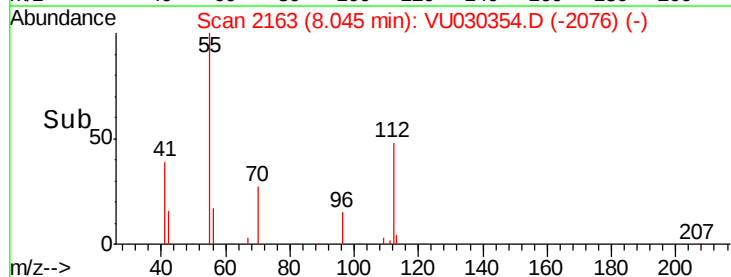
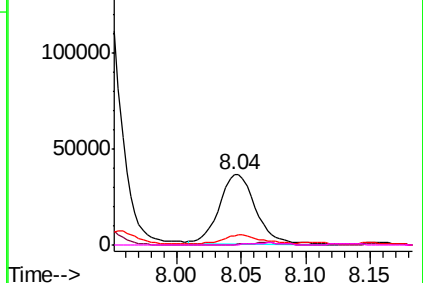


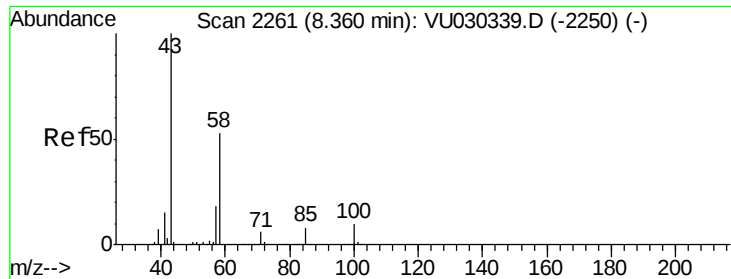
Abundance Ion 97.00 (96.70 to 97.70): VU030339.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU030339.D (-2156) (-)

Ion 83.00 (82.70 to 83.70): VU030339.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU030339.D (-2156) (-)

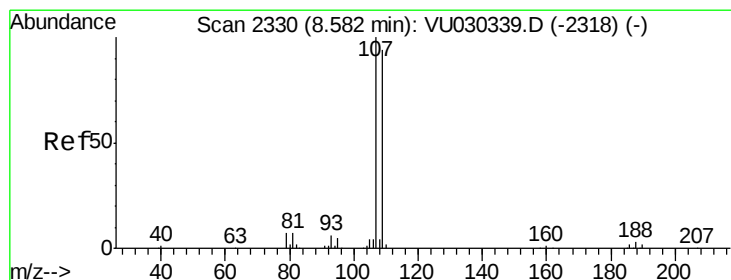
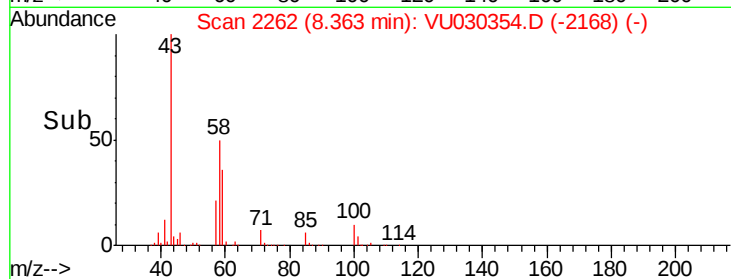
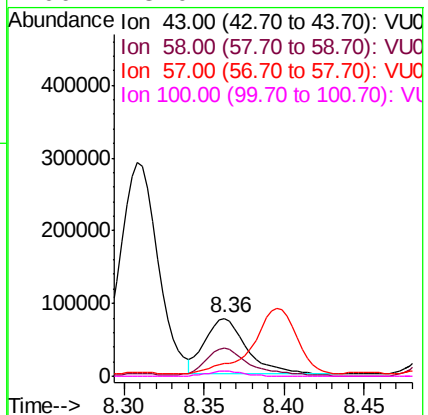
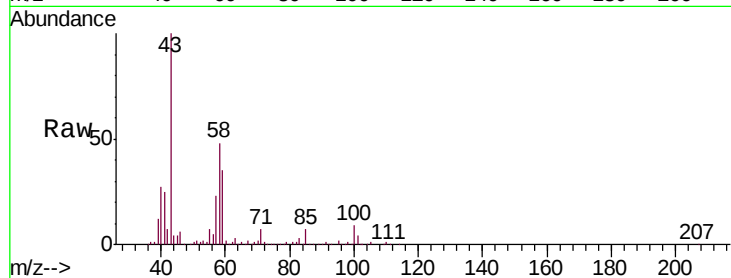




#48
 2-Hexanone
 Concen: 22.559 ug/L
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VU030354.D
 Acq: 23 Mar 2019 20:44

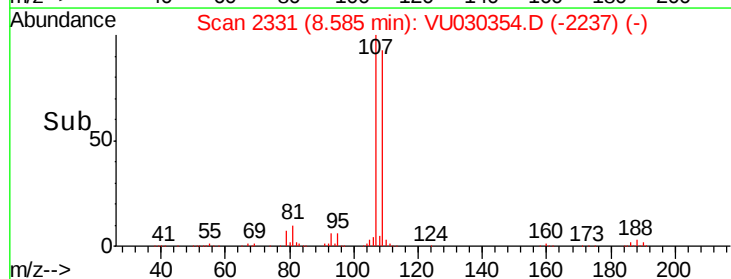
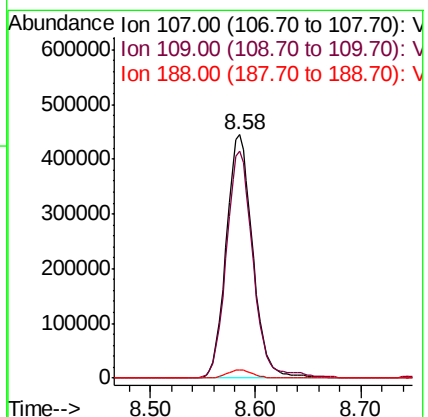
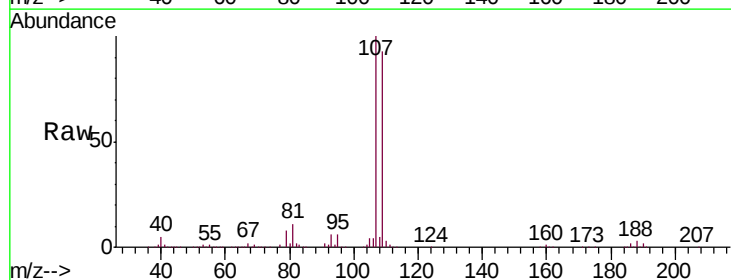
Instrument :
 MSVOA_U
 ClientSampleId :
 DB6R6

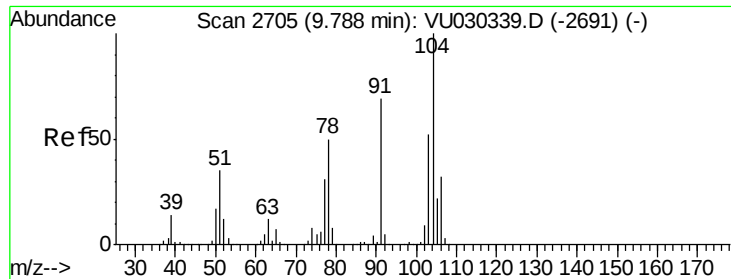
Tgt Ion: 43 Resp: 140305
 Ion Ratio Lower Upper
 43 100
 58 53.2 42.5 63.7
 57 132.9 15.0 22.6#
 100 8.0 7.4 11.2



#50
 1,2-Dibromoethane
 Concen: 188.317 ug/L
 RT: 8.58 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU030354.D
 Acq: 23 Mar 2019 20:44

Tgt Ion: 107 Resp: 771493
 Ion Ratio Lower Upper
 107 100
 109 93.4 65.8 122.2
 188 3.3 2.6 4.0





#55

Styrene

Concen: 165.809 ug/L

RT: 9.80 min Scan# 2708

Delta R.T. 0.01 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

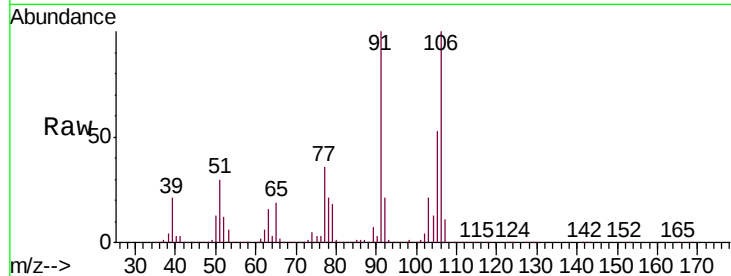
DB6R6

Tgt Ion:104 Resp: 1801035

Ion Ratio Lower Upper

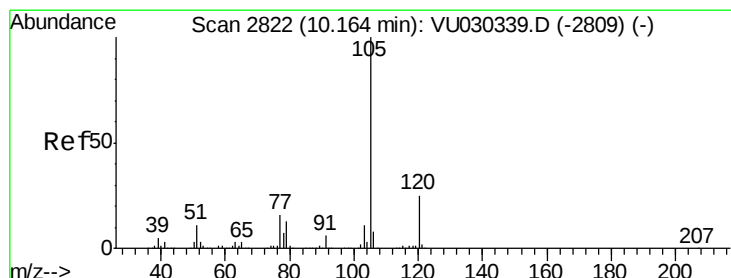
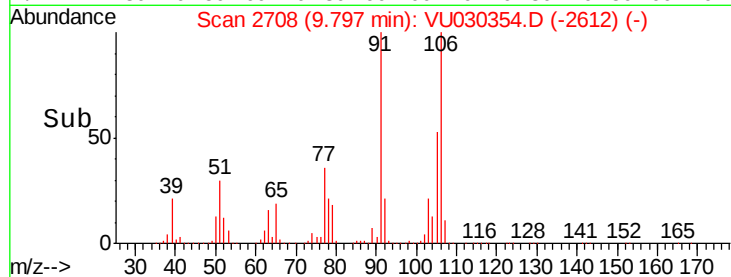
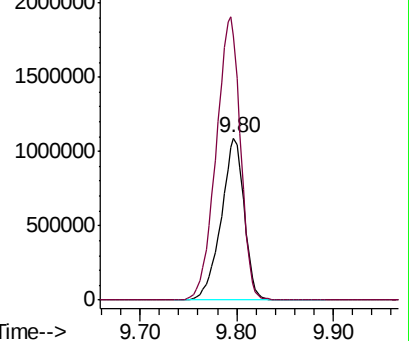
104 100

78 162.9 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 94.448 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

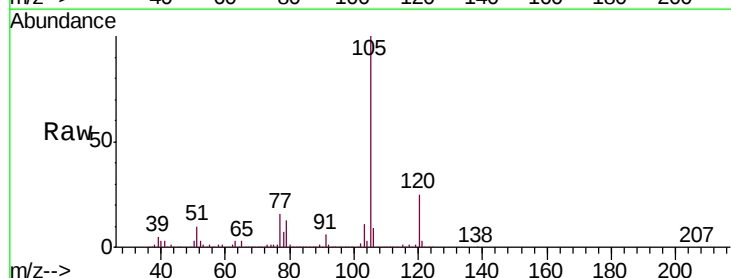
Tgt Ion:105 Resp: 1576950

Ion Ratio Lower Upper

105 100

120 25.4 20.2 30.2

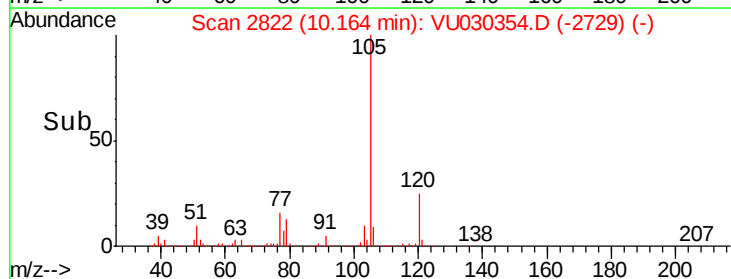
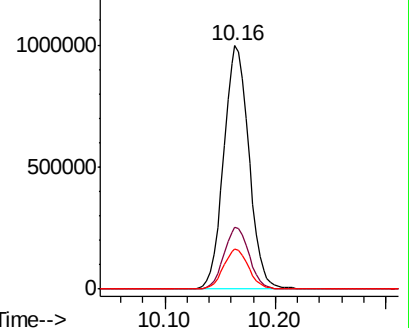
77 16.3 13.2 19.8

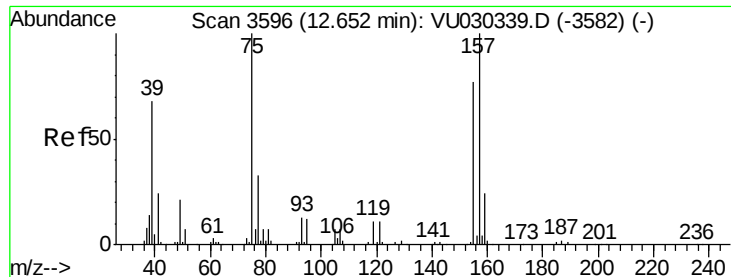


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#66

1,2-Dibromo-3-chloropropane

Concen: 5.433 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. -0.01 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

DB6R6

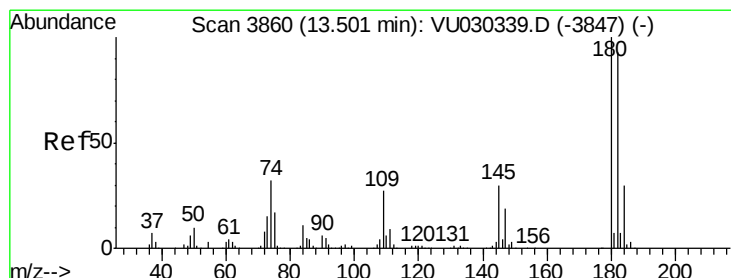
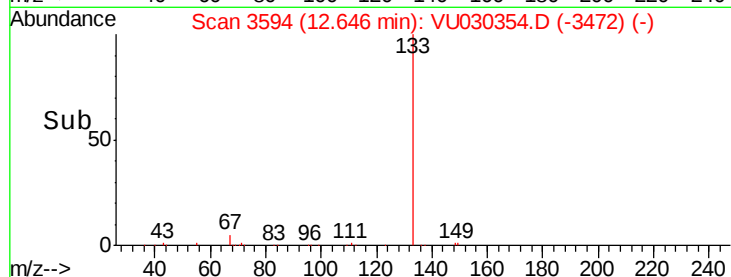
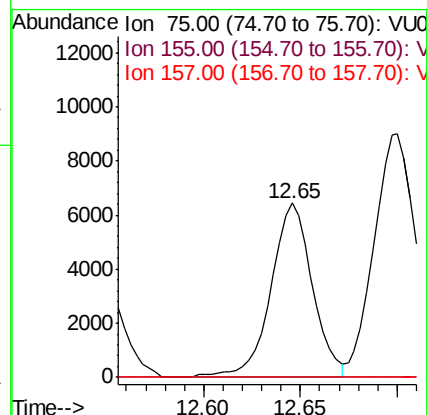
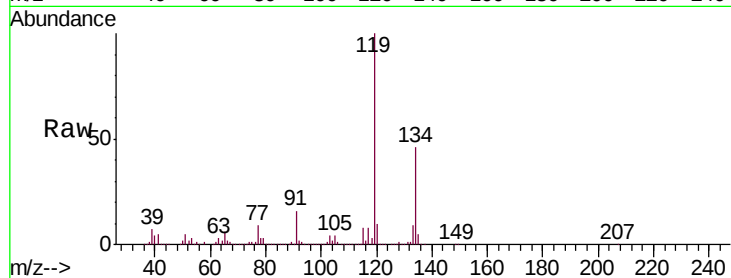
Tgt Ion: 75 Resp: 9638

Ion Ratio Lower Upper

75 100

155 0.0 61.8 92.6#

157 0.0 80.2 120.4#



#68

1,2,4-trichlorobenzene

Concen: 0.570 ug/L

RT: 13.50 min Scan# 3860

Delta R.T. -0.00 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

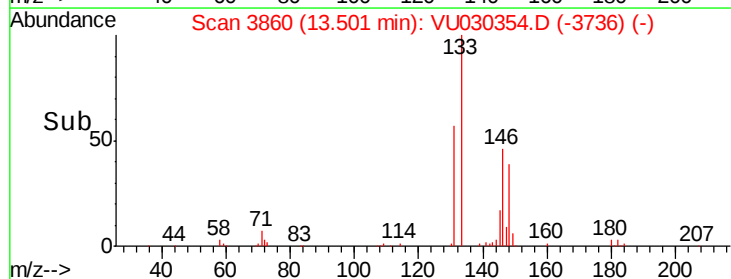
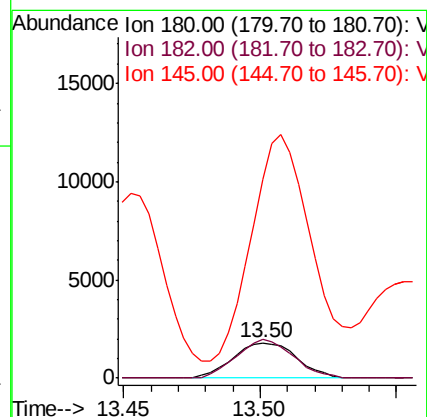
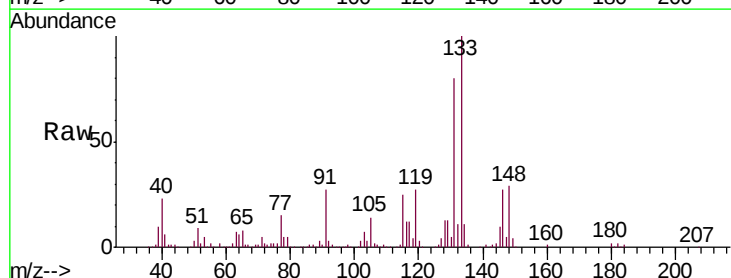
Tgt Ion: 180 Resp: 2922

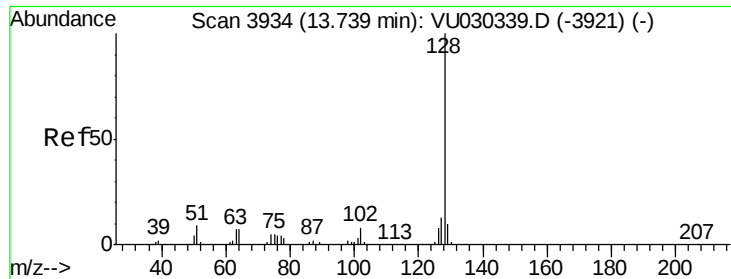
Ion Ratio Lower Upper

180 100

182 97.8 76.1 114.1

145 593.6 24.5 36.7#





#69

Naphthalene

Concen: 660.529 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU030354.D

Acq: 23 Mar 2019 20:44

Instrument :

MSVOA_U

ClientSampleId :

DB6R6

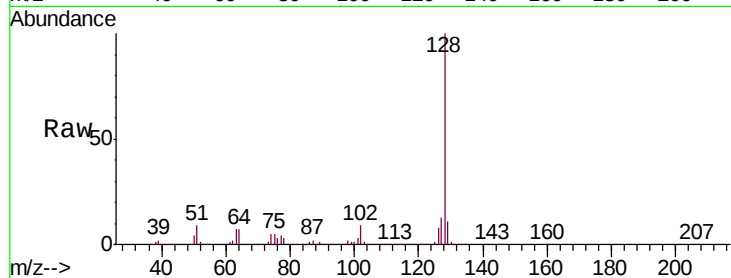
Tgt Ion:128 Resp:12036446

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 11.1 8.4 12.6



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

