

Data File : VU033115.D
Acq On : 01 Jul 2019 15:07
Operator : JC/SP
Sample : K3599-20MSD
Misc : 7.92g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GAM27MSD

Quant Time: Jul 02 04:21:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 02 04:16:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	223470	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	227455	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	112851	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	46096	30.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	60.36%
7) Chloroethane-d5	1.64	69	33258	27.30	ug/L	-0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	54.60%#
11) 1,1-Dichloroethene-d2	2.22	63	128015	41.61	ug/L	-0.05
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.22%
21) 2-Butanone-d5	4.19	46	150327	118.26	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.26%
24) Chloroform-d	4.63	84	133108	44.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.66%
26) 1,2-Dichloroethane-d4	5.30	65	97645	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.74%
32) Benzene-d6	5.32	84	246926	41.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.28%
36) 1,2-Dichloropropane-d6	6.32	67	85101	45.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.10%
41) Toluene-d8	7.56	98	223293	40.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.42%
43) trans-1,3-Dichloropropene-	7.85	79	42960	43.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.44%
47) 2-Hexanone-d5	8.32	63	90767	102.91	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.91%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	143344	49.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.18%
64) 1,2-Dichlorobenzene-d4	11.86	152	98222	44.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.96%

Target Compounds

					Qvalue
3) Chloromethane	1.32	50	1761	0.861 ug/L	99
6) Bromomethane	1.59	94	723	0.605 ug/L	79
10) 1,1,2-Trichloro-1,2,2-trif	2.23	101	863	0.578 ug/L #	17
12) 1,1-Dichloroethene	2.23	96	68589	48.739 ug/L	87
13) Acetone	2.34	43	1070	0.609 ug/L	77
22) 2-Butanone	4.29	43	17735	9.746 ug/L #	62
27) 1,2-Dichloroethane	5.37	62	3661	1.485 ug/L #	77
33) Benzene	5.37	78	338588	51.674 ug/L	100
34) Trichloroethene	6.17	95	91076	52.022 ug/L	98
35) Methylcyclohexane	6.32	83	19744	7.296 ug/L #	18
37) 1,2-Dichloropropane	6.32	63	10359	5.763 ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	3123	1.115 ug/L #	67
42) Toluene	7.63	91	365126	51.503 ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	2023	0.769 ug/L #	64
46) Tetrachloroethene	8.22	164	3642	2.539 ug/L	96
48) 2-Hexanone	8.32	43	12821	5.064 ug/L #	73
49) Dibromochloromethane	8.22	129	3248	1.610 ug/L #	12

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU070119\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Jul 02 04:16:18 2019
Response via : Initial Calibration

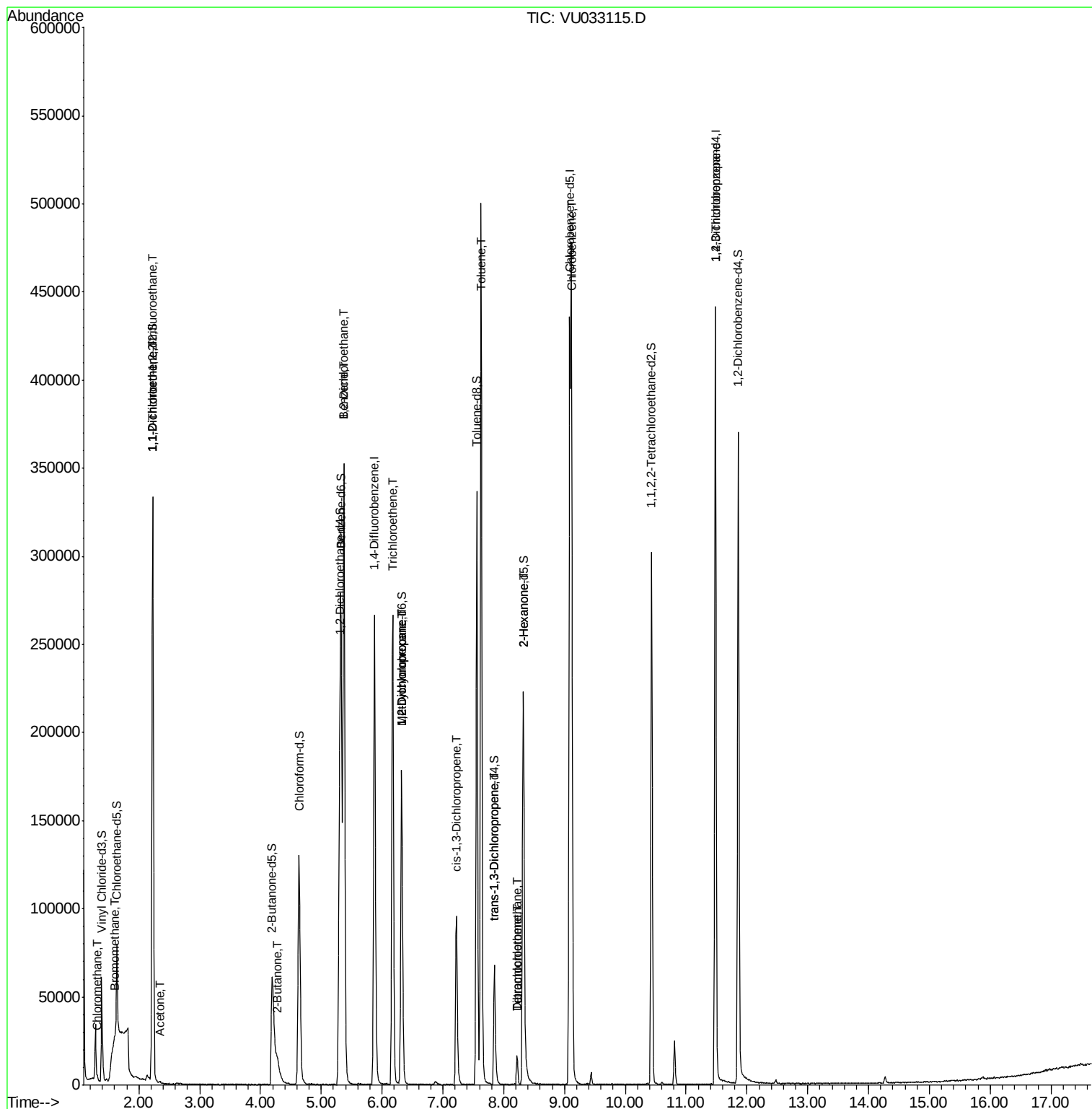
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.12	112	243014	52.091	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	14454	6.026	ug/L	90

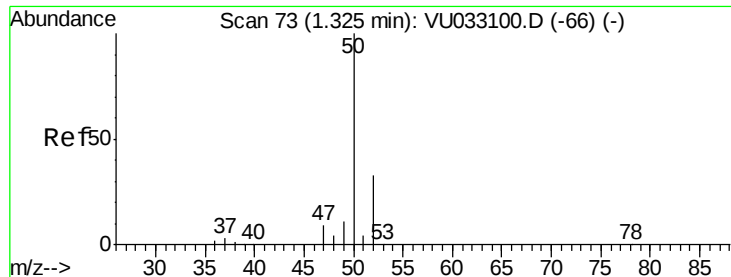
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.861 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.01 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

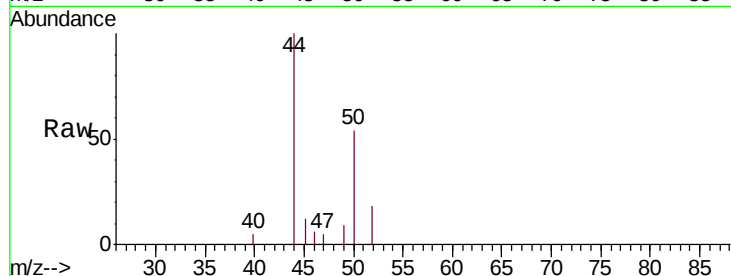
GAM27MSD

Tgt Ion: 50 Resp: 1761

Ion Ratio Lower Upper

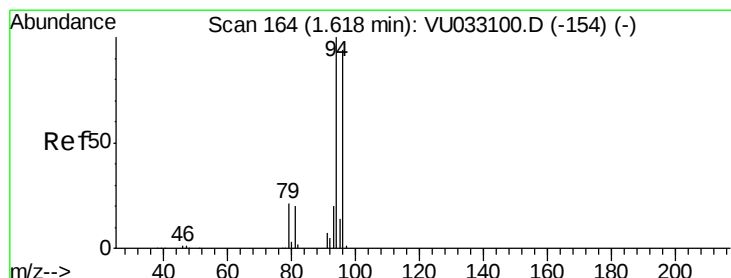
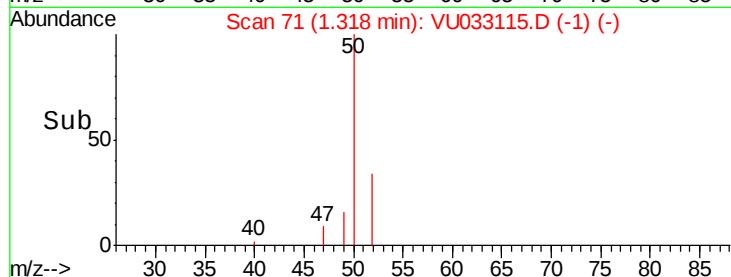
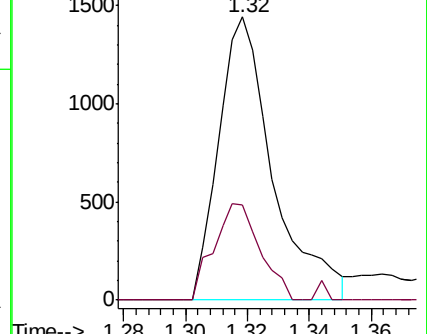
50 100

52 33.6 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#6

Bromomethane

Concen: 0.605 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.02 min

Lab File: VU033115.D

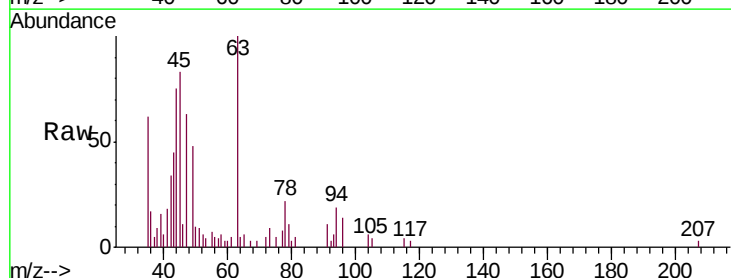
Acq: 01 Jul 2019 15:07

Tgt Ion: 94 Resp: 723

Ion Ratio Lower Upper

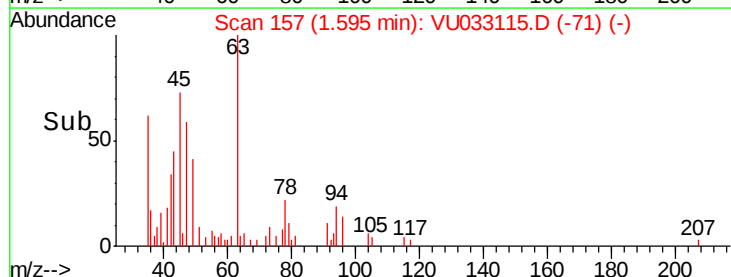
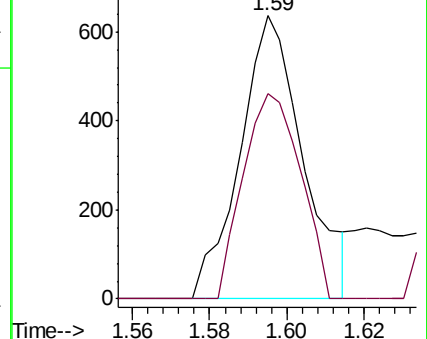
94 100

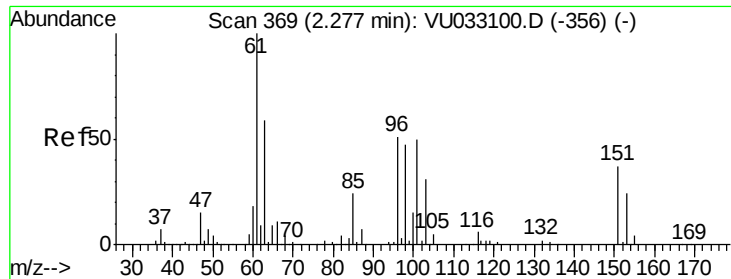
96 72.3 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#10

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

Concen: 0.578 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.05 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

GAM27MSD

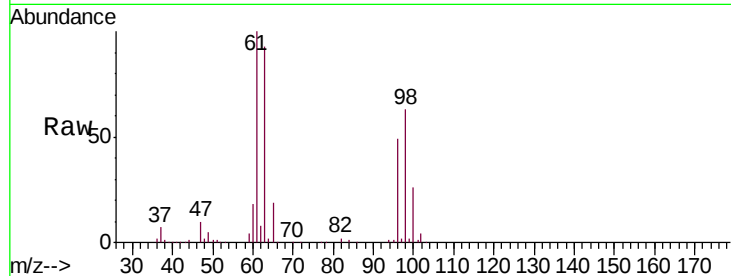
Tgt Ion: 101 Resp: 863

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

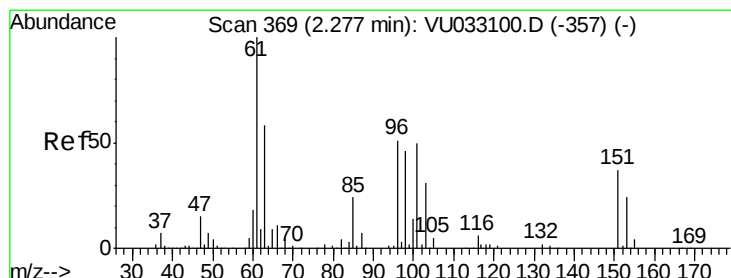
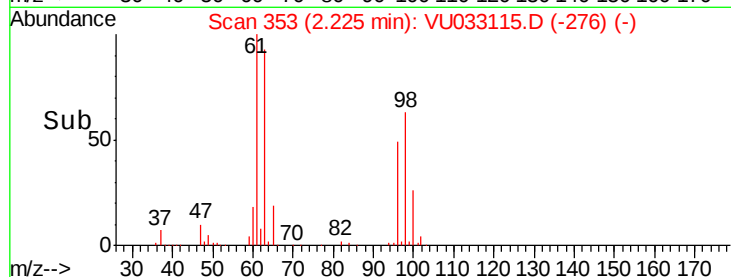
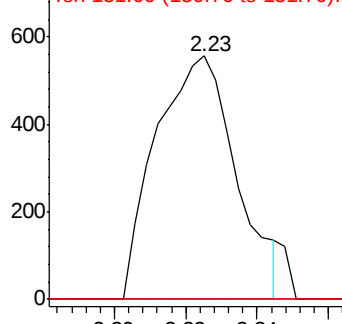
151 0.0 63.6 95.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VUC

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.739 ug/L

RT: 2.23 min Scan# 355

Delta R.T. -0.05 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

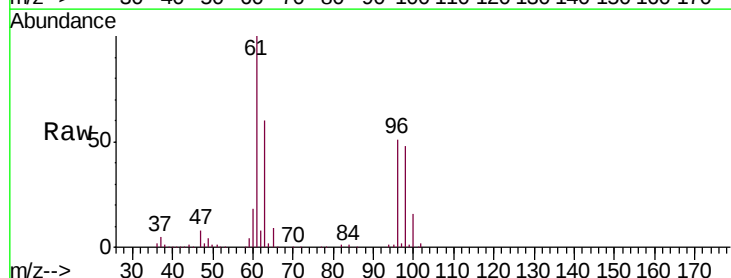
Tgt Ion: 96 Resp: 68589

Ion Ratio Lower Upper

96 100

61 198.0 131.0 243.4

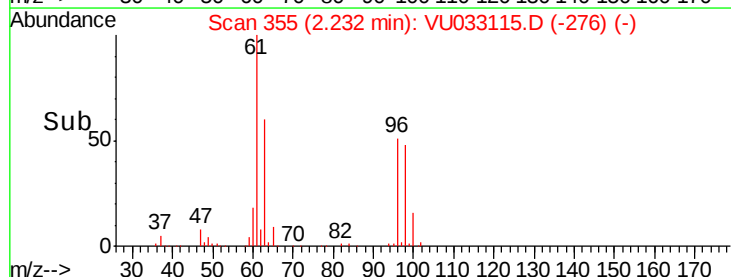
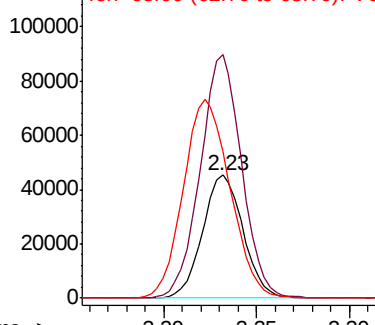
63 118.7 101.0 187.6

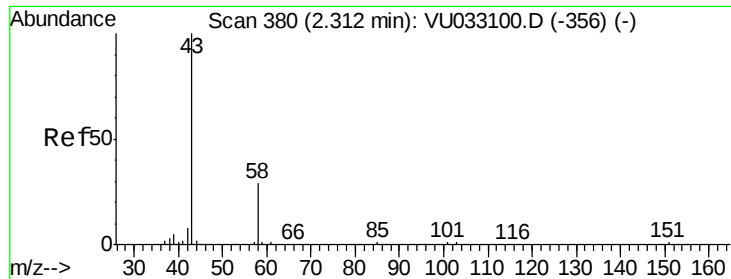


Abundance Ion 96.00 (95.70 to 96.70): VUC

Ion 61.00 (60.70 to 61.70): VUC

Ion 63.00 (62.70 to 63.70): VUC





#13

Acetone

Concen: 0.609 ug/L

RT: 2.34 min Scan# 390

Delta R.T. 0.03 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

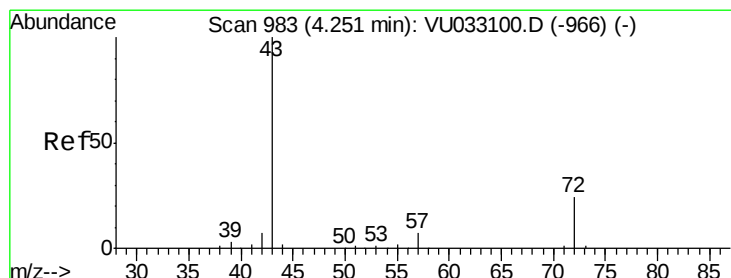
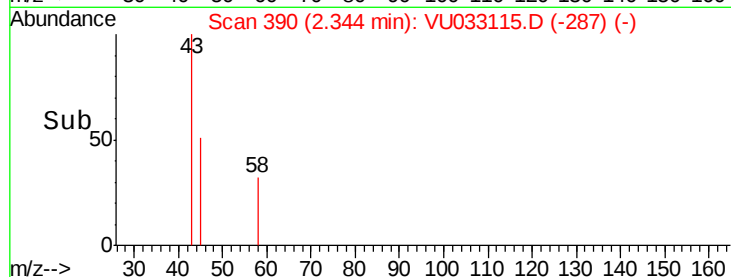
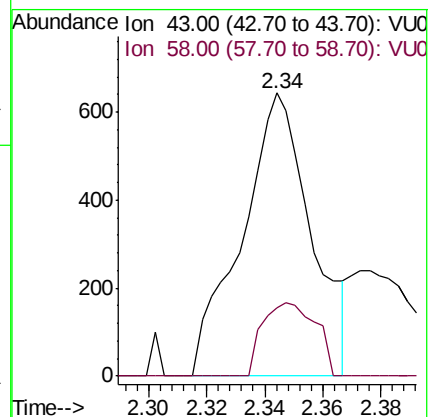
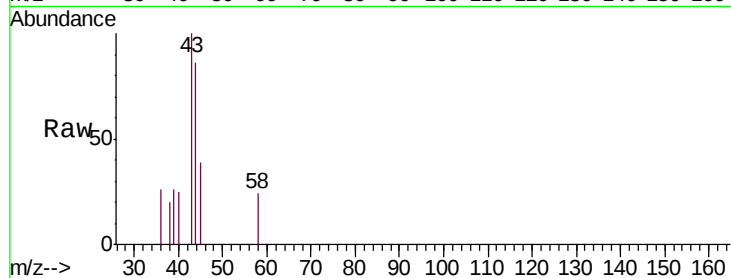
GAM27MSD

Tgt Ion: 43 Resp: 1070

Ion Ratio Lower Upper

43 100

58 17.8 0.0 60.6



#22

2-Butanone

Concen: 9.746 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.04 min

Lab File: VU033115.D

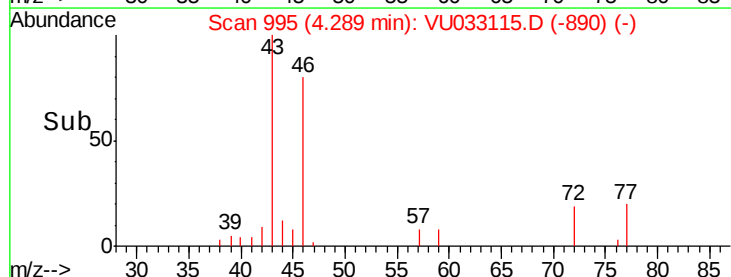
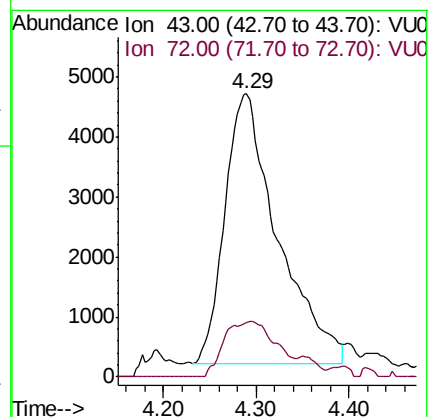
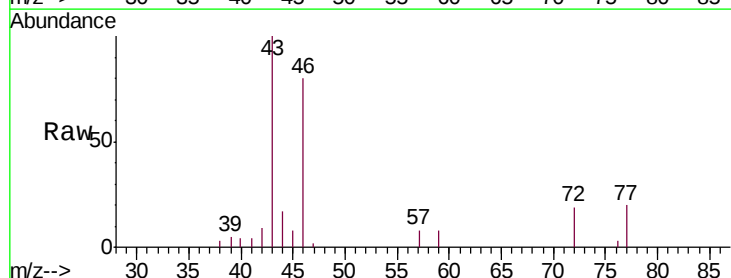
Acq: 01 Jul 2019 15:07

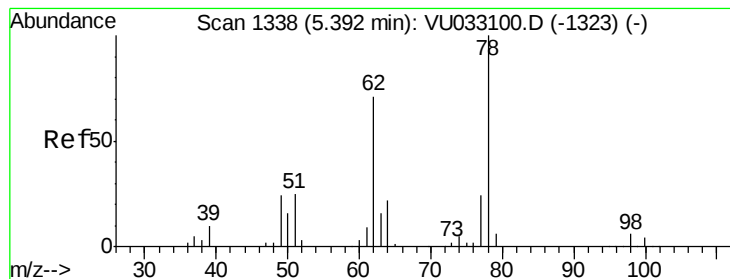
Tgt Ion: 43 Resp: 17735

Ion Ratio Lower Upper

43 100

72 6.3 12.9 38.6#





#27

1,2-Dichloroethane

Concen: 1.485 ug/L

RT: 5.37 min Scan# 1331

Delta R.T. -0.02 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

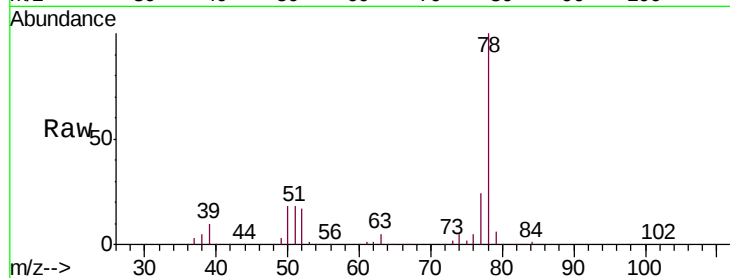
GAM27MSD

Tgt Ion: 62 Resp: 3661

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU033100.D (-1323) (-)

Ion 98.00 (97.70 to 98.70): VU033100.D (-1323) (-)

2000

1500

1000

500

0

5.35

5.40

5.45

5.50

5.55

5.60

5.65

5.70

5.75

5.80

5.85

5.90

5.95

6.00

6.05

6.10

6.15

6.20

6.25

6.30

6.35

6.40

6.45

6.50

6.55

6.60

6.65

6.70

6.75

6.80

6.85

6.90

6.95

7.00

7.05

7.10

7.15

7.20

7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

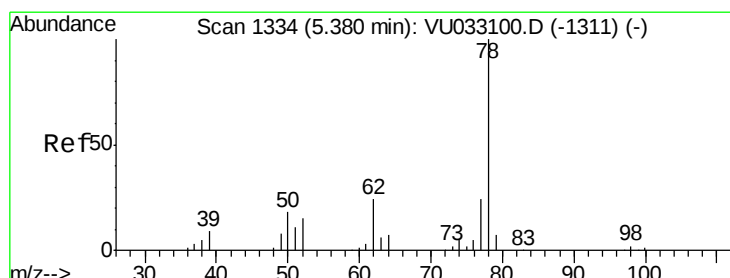
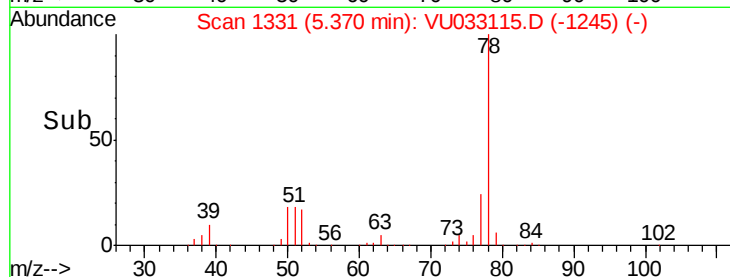
7.80

7.85

7.90

7.95

8.00



#33

Benzene

Concen: 51.674 ug/L

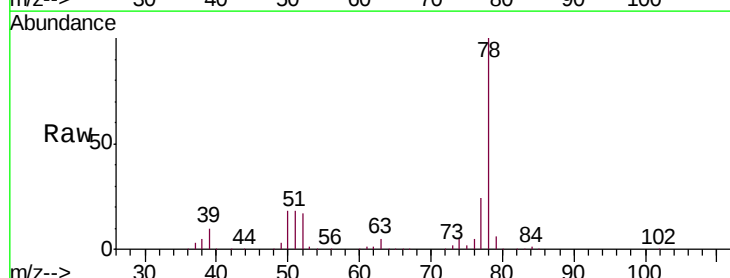
RT: 5.37 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Tgt Ion: 78 Resp: 338588



Abundance Ion 78.00 (77.70 to 78.70): VU033100.D (-1311) (-)

150000

100000

50000

0

5.30

5.35

5.40

5.45

5.50

5.55

5.60

5.65

5.70

5.75

5.80

5.85

5.90

5.95

6.00

6.05

6.10

6.15

6.20

6.25

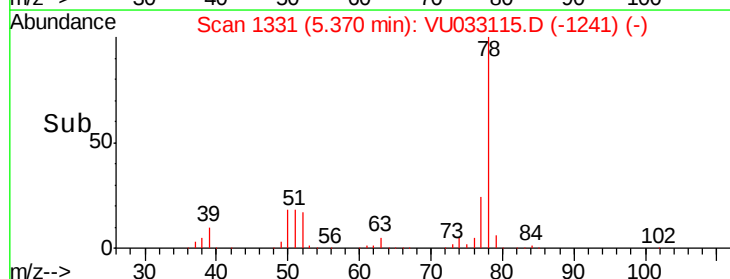
6.30

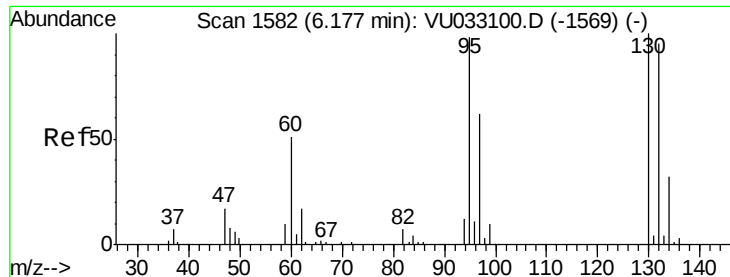
6.35

6.40

6.45

6.50

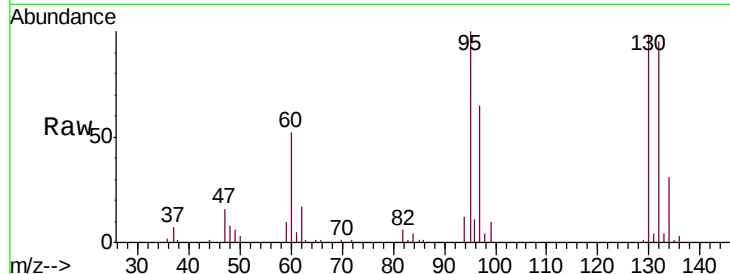




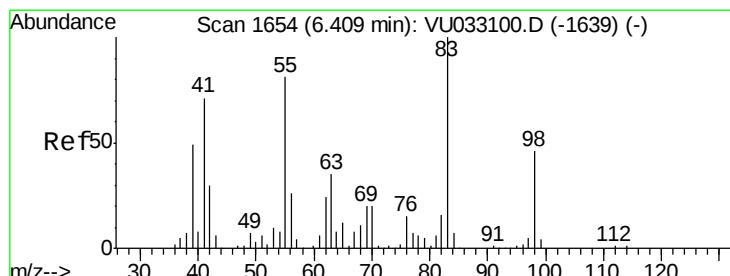
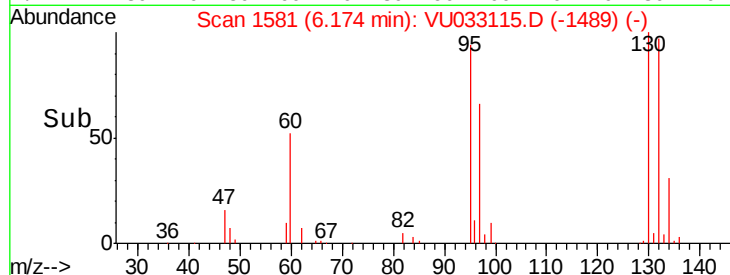
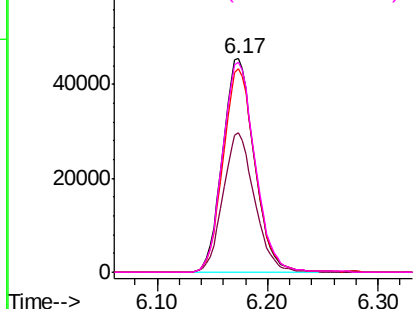
#34
 Trichloroethene
 Concen: 52.022 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VU033115.D
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Tgt Ion: 95 Resp: 91076
 Ion Ratio Lower Upper
 95 100
 97 65.1 45.9 85.3
 132 95.5 68.5 127.3
 130 98.3 70.8 131.4

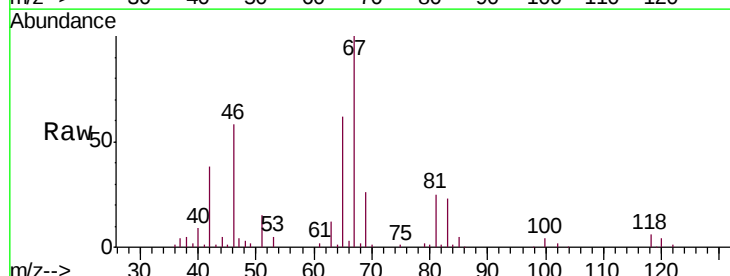


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

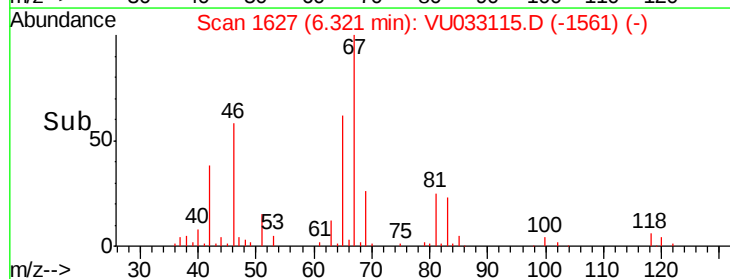
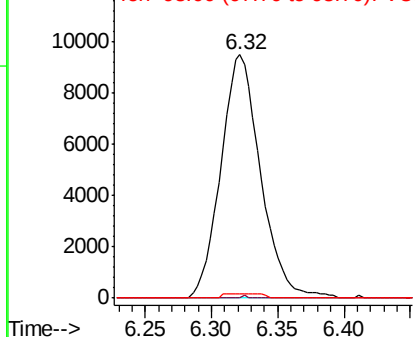


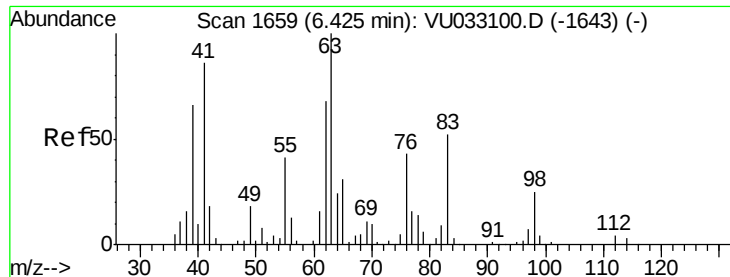
#35
 Methylcyclohexane
 Concen: 7.296 ug/L
 RT: 6.32 min Scan# 1627
 Delta R.T. -0.09 min
 Lab File: VU033115.D
 Acq: 01 Jul 2019 15:07

Tgt Ion: 83 Resp: 19744
 Ion Ratio Lower Upper
 83 100
 55 0.0 62.6 94.0#
 98 0.5 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

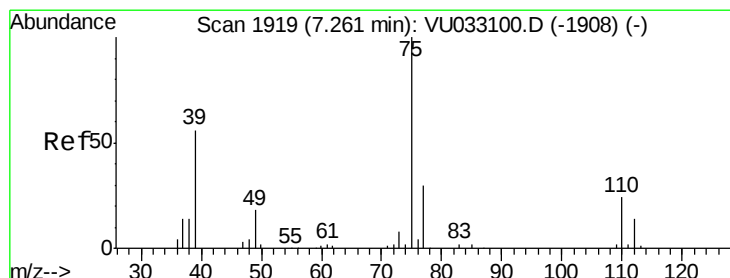
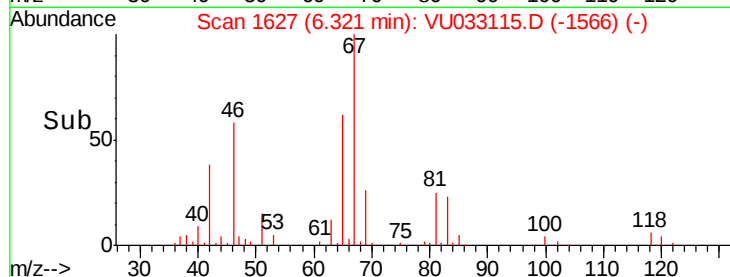
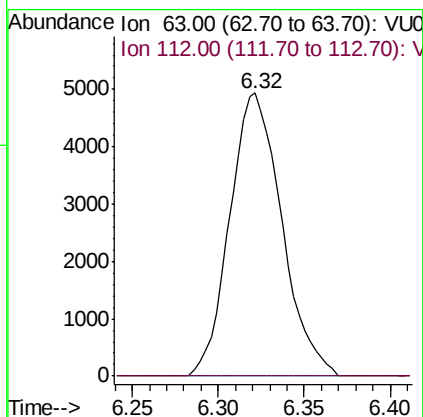
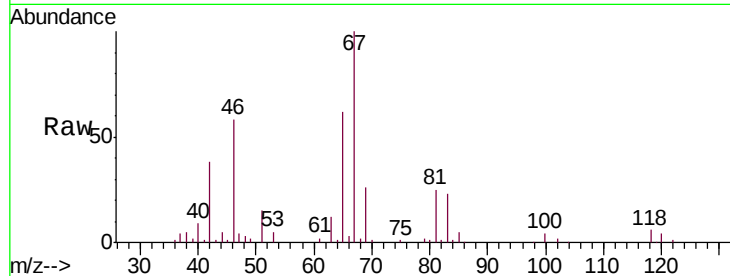




#37
 1,2-Dichloropropane
 Concen: 5.763 ug/L
 RT: 6.32 min Scan# 1627
 Delta R.T. -0.10 min
 Lab File: VU033115.D
 Acq: 01 Jul 2019 15:07

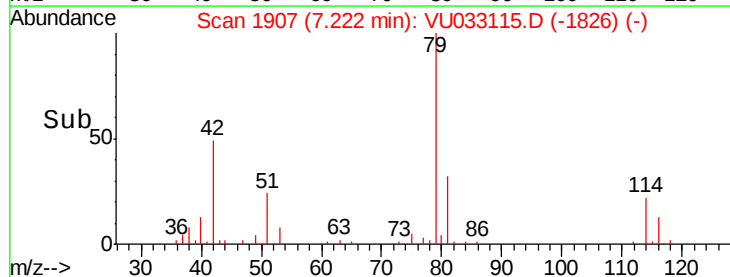
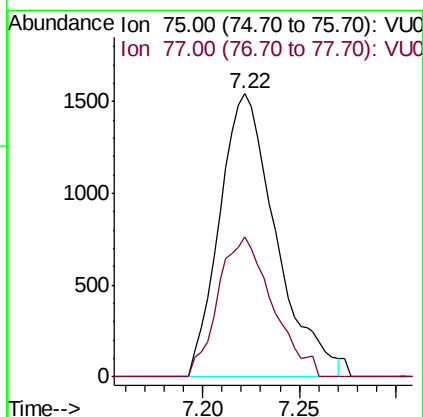
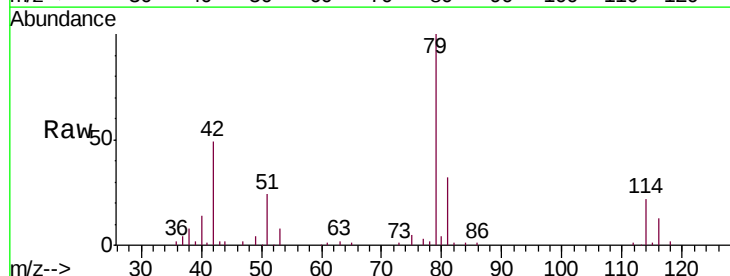
Instrument :
 MSVOA_U
 ClientSampleId :
 GAM27MSD

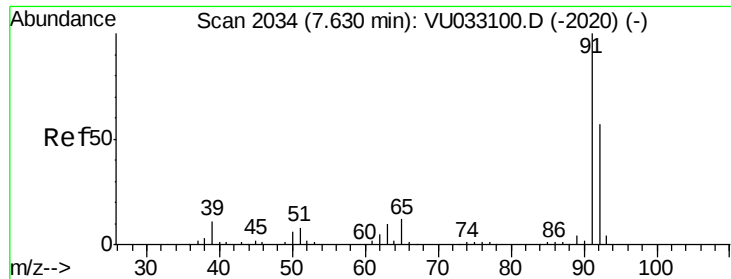
Tgt Ion: 63 Resp: 10359
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.6#



#39
 cis-1,3-Dichloropropene
 Concen: 1.115 ug/L
 RT: 7.22 min Scan# 1907
 Delta R.T. -0.04 min
 Lab File: VU033115.D
 Acq: 01 Jul 2019 15:07

Tgt Ion: 75 Resp: 3123
 Ion Ratio Lower Upper
 75 100
 77 49.4 21.9 40.7#





#42

Toluene

Concen: 51.503 ug/L

RT: 7.63 min Scan# 2033

Delta R.T. -0.00 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

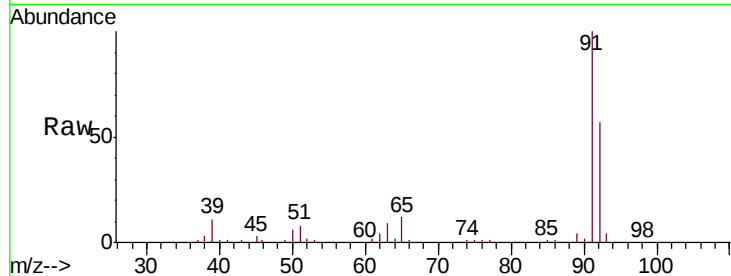
GAM27MSD

Tgt Ion: 91 Resp: 365126

Ion Ratio Lower Upper

91 100

92 57.3 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VU033100.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU033100.D (-2020) (-)

7.63

200000

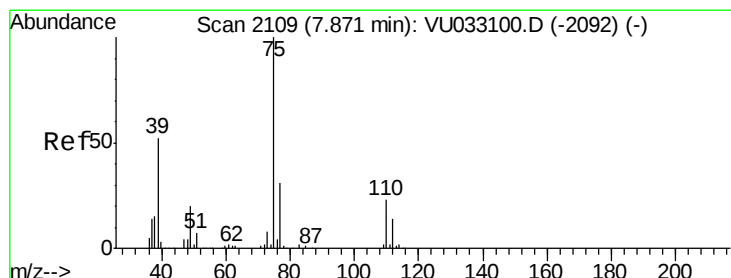
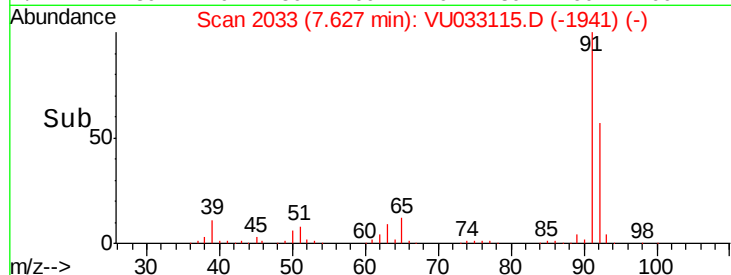
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.769 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU033115.D

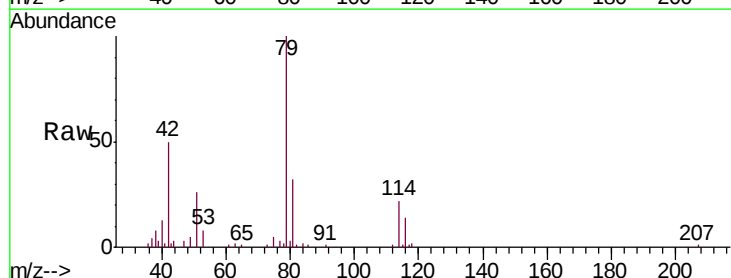
Acq: 01 Jul 2019 15:07

Tgt Ion: 75 Resp: 2023

Ion Ratio Lower Upper

75 100

77 50.8 21.8 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VU033100.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU033100.D (-2092) (-)

7.85

1200

1000

800

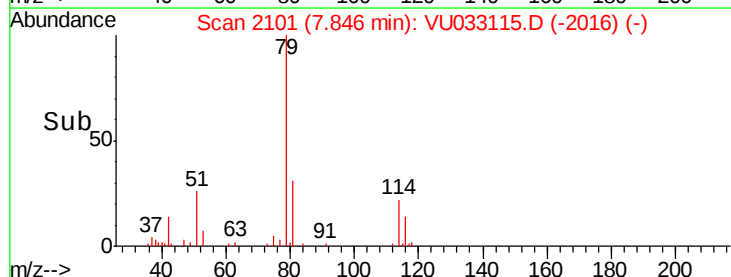
600

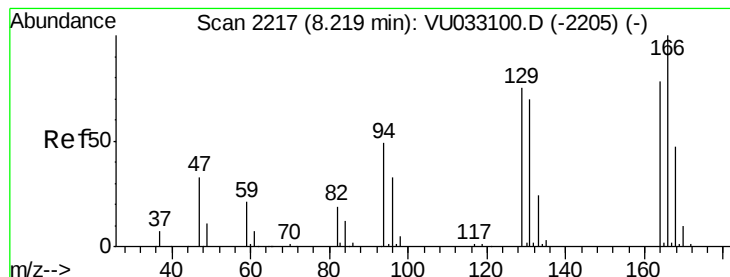
400

200

0

Time-->





#46

Tetrachloroethene

Concen: 2.539 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

GAM27MSD

Tgt Ion: 164 Resp: 3642

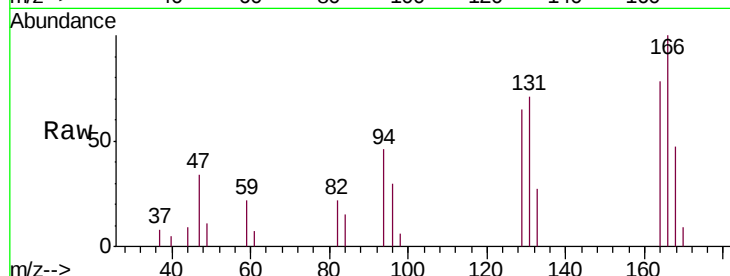
Ion Ratio Lower Upper

164 100

129 83.5 64.8 120.3

131 90.3 64.5 119.7

166 127.8 91.3 169.6

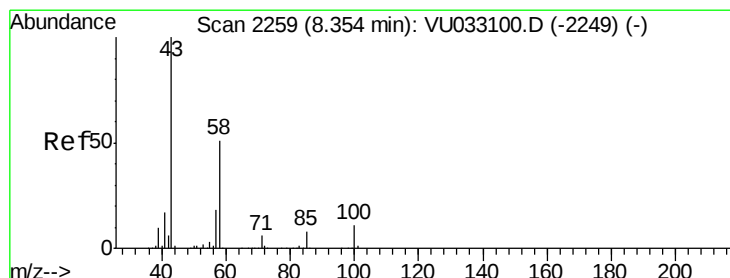
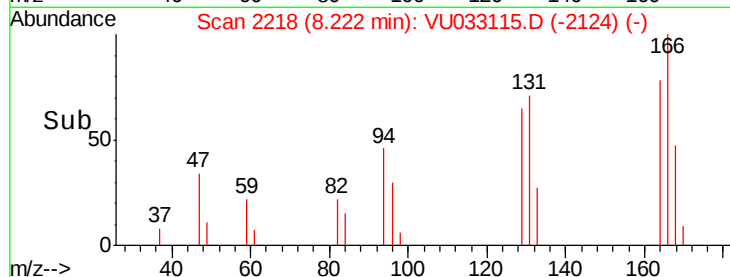
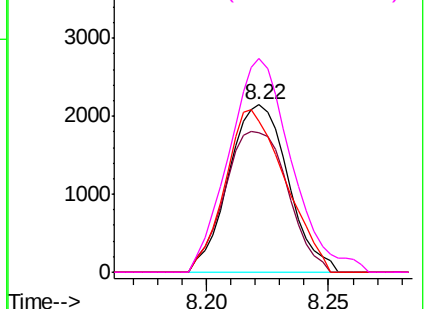


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 5.064 ug/L

RT: 8.32 min Scan# 2249

Delta R.T. -0.03 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Tgt Ion: 43 Resp: 12821

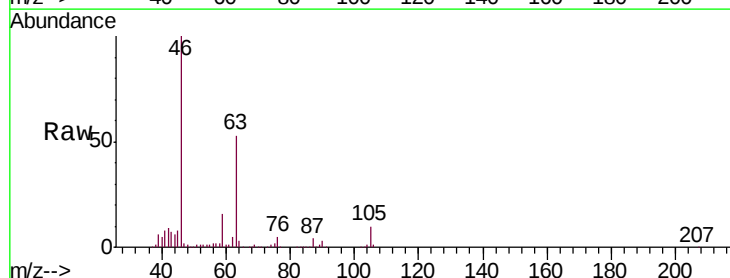
Ion Ratio Lower Upper

43 100

58 28.5 40.2 60.2#

57 23.7 14.2 21.4#

100 0.0 8.4 12.6#

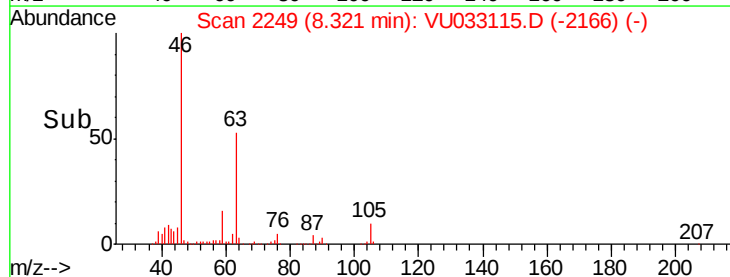
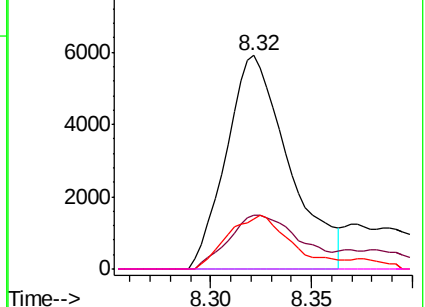


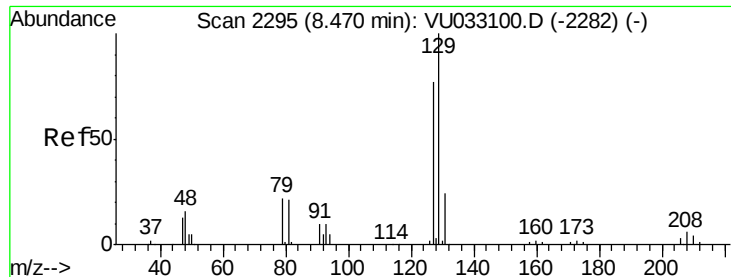
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 1.610 ug/L

RT: 8.22 min Scan# 2217

Delta R.T. -0.25 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

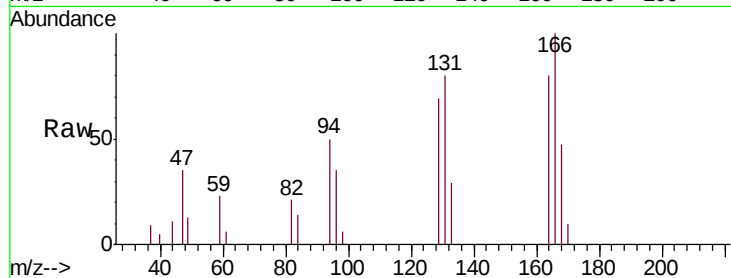
GAM27MSD

Tgt Ion:129 Resp: 3248

Ion Ratio Lower Upper

129 100

127 0.0 52.3 97.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.22

2000

1500

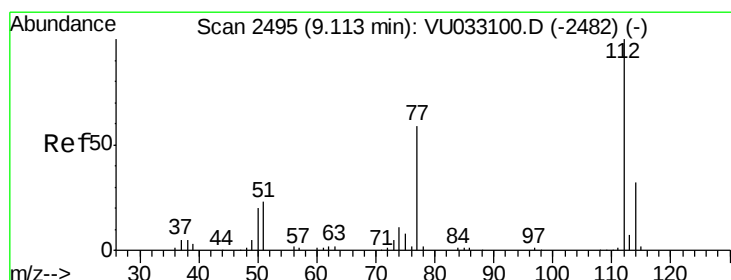
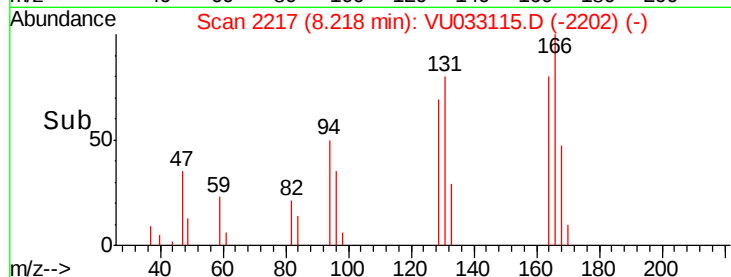
1000

500

0

8.20 8.25

Time-->



#51

Chlorobenzene

Concen: 52.091 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

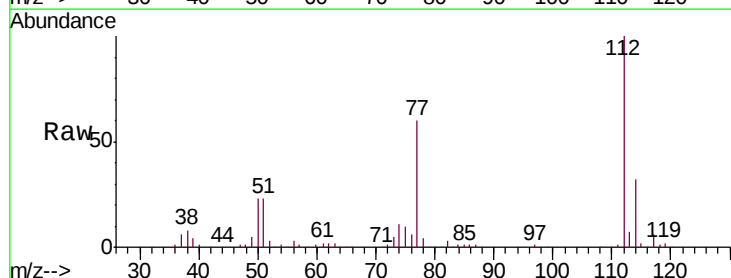
Tgt Ion:112 Resp: 243014

Ion Ratio Lower Upper

112 100

114 32.0 22.8 42.4

77 59.9 46.3 69.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU

9.12

150000

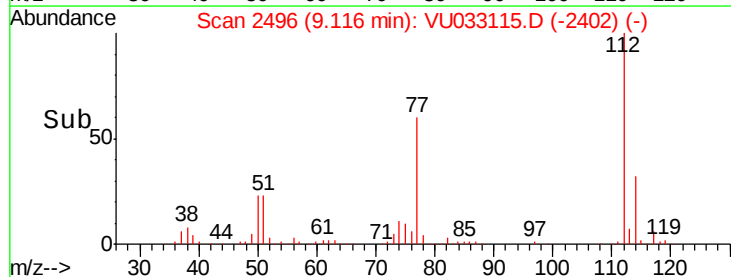
100000

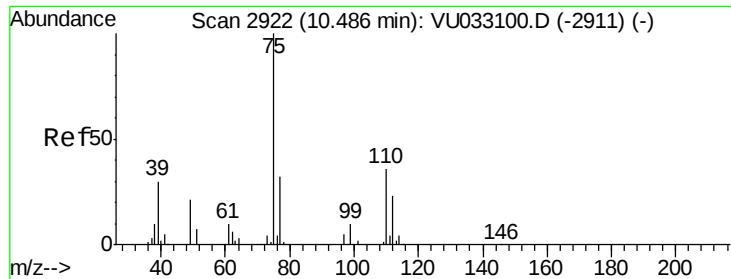
50000

0

9.05 9.10 9.15 9.20

Time-->





#59

1,2,3-Trichloropropane

Concen: 6.026 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU033115.D

Acq: 01 Jul 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

GAM27MSD

Tgt Ion: 75 Resp: 14454

Ion Ratio Lower Upper

75 100

77 37.6 25.5 38.3

