

Data File : VU033321.D
Acq On : 18 Jul 2019 16:01
Operator : JC/SP
Sample : K3828-02MS
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

Quant Time: Jul 19 01:48:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 01:43:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	385686	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	376395	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	192593	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	156456	53.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.18%
7) Chloroethane-d5	1.67	69	131540	52.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.48%
11) 1,1-Dichloroethene-d2	2.26	63	268397	50.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.36%
21) 2-Butanone-d5	4.15	46	212148	114.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.68%
24) Chloroform-d	4.62	84	243622	49.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.58%
26) 1,2-Dichloroethane-d4	5.29	65	159870	50.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.88%
32) Benzene-d6	5.32	84	521857	56.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.04%
36) 1,2-Dichloropropane-d6	6.31	67	164478	55.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.22%
41) Toluene-d8	7.55	98	491862	56.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.98%
43) trans-1,3-Dichloropropene-	7.83	79	81254	56.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	112.04%
47) 2-Hexanone-d5	8.29	63	167758	125.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	125.81%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	236874	52.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.82%
64) 1,2-Dichlorobenzene-d4	11.85	152	196685	57.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.54%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2068	0.786 ug/L #	21
12) 1,1-Dichloroethene	2.27	96	116333	45.190 ug/L	96
13) Acetone	2.31	43	27368	11.841 ug/L	98
15) Methyl Acetate	2.61	43	2814	0.932 ug/L #	77
16) Methylene chloride	2.69	84	3045	1.036 ug/L #	68
27) 1,2-Dichloroethane	5.36	62	4743	1.126 ug/L	96
29) Cyclohexane	4.97	56	64558	15.740 ug/L	95
33) Benzene	5.37	78	525060	47.834 ug/L	100
34) Trichloroethene	6.16	95	134934	47.004 ug/L	98
35) Methylcyclohexane	6.39	83	96823	22.018 ug/L	92
39) cis-1,3-Dichloropropene	7.21	75	4916	1.077 ug/L #	51
40) 4-Methyl-2-pentanone	7.40	43	73479	18.400 ug/L #	50
42) Toluene	7.62	91	581290	49.120 ug/L	99
44) trans-1,3-Dichloropropene	7.83	75	3771	0.916 ug/L #	43
45) 1,1,2-Trichloroethane	8.03	97	8386	2.979 ug/L #	20
48) 2-Hexanone	8.40	43	112507	34.582 ug/L #	1
51) Chlorobenzene	9.10	112	371843	48.140 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Fri Jul 19 01:43:14 2019
Response via : Initial Calibration

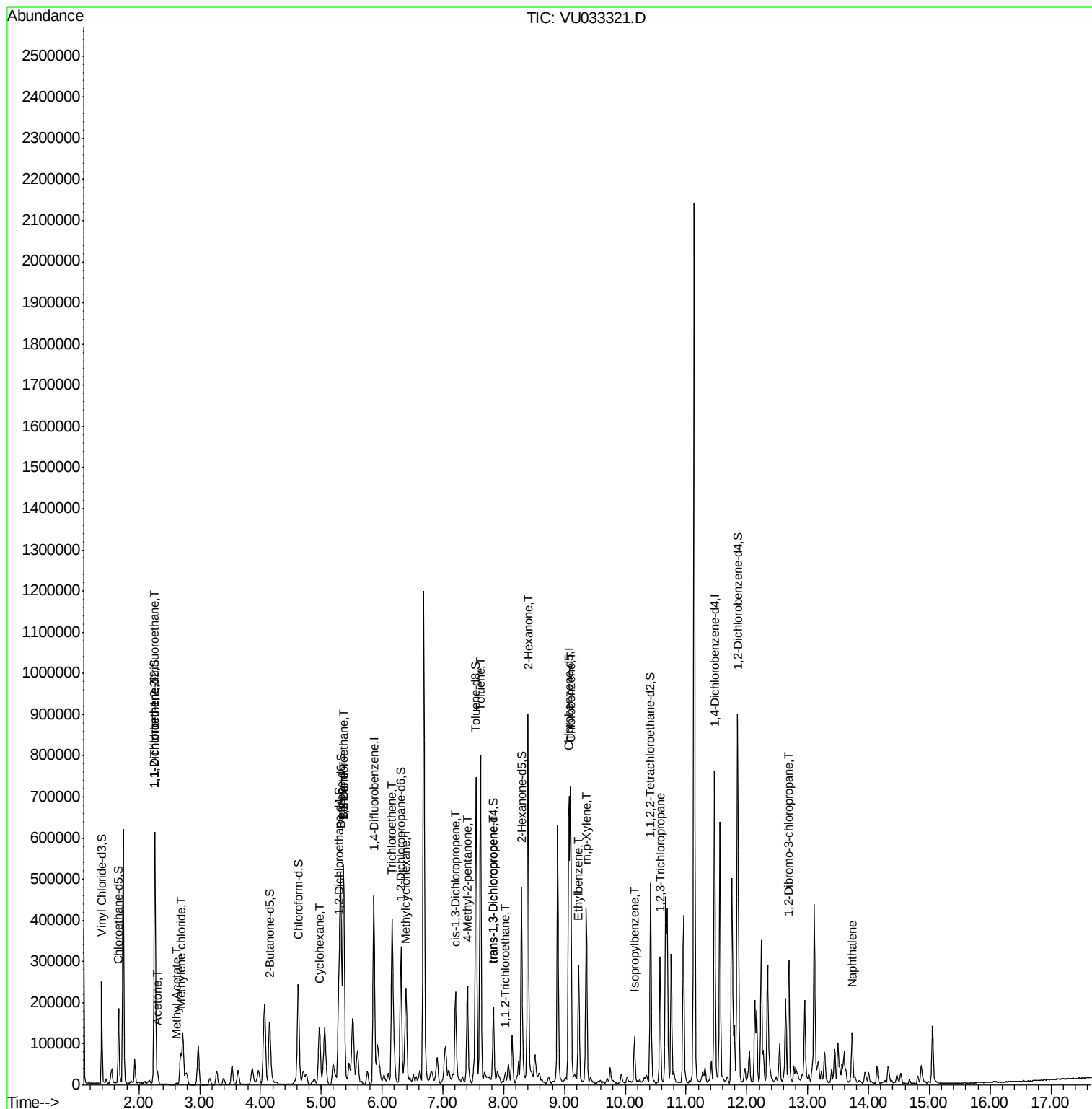
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.23	91	198813	15.700	ug/L	99
53) m,p-Xylene	9.36	106	119334	24.880	ug/L	99
56) Isopropylbenzene	10.15	105	72410	5.908	ug/L	98
59) 1,2,3-Trichloropropane	10.57	75	1649	0.426	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.69	75	1195	1.030	ug/L #	3
69) Naphthalene	13.73	128	106316	8.860	ug/L	98

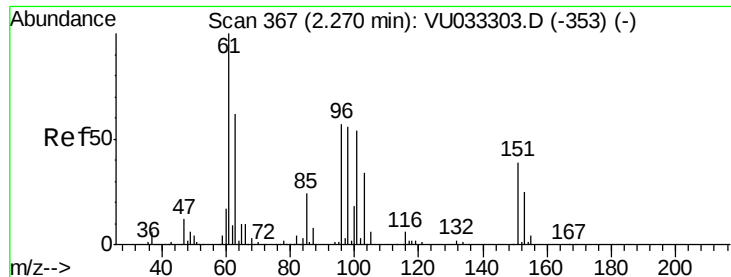
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.786 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

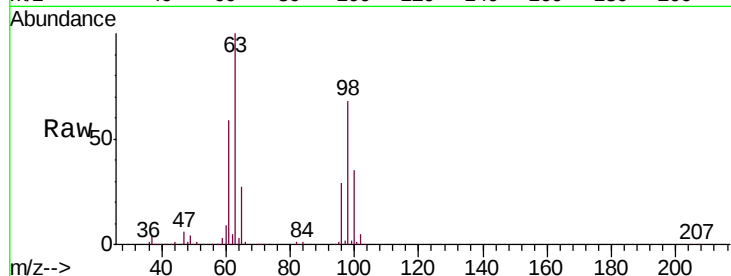
Tgt Ion: 101 Resp: 2068

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

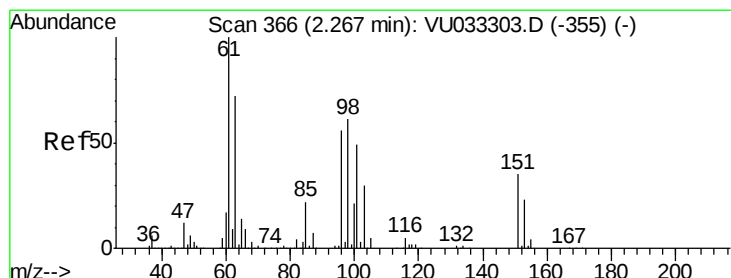
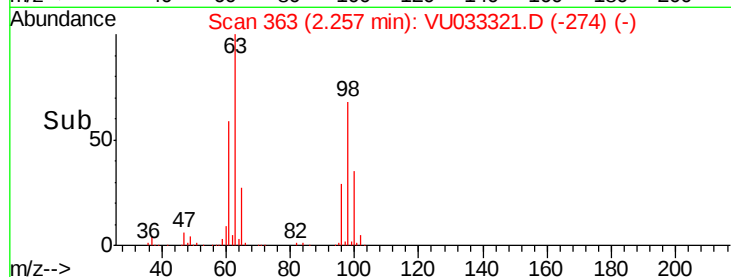
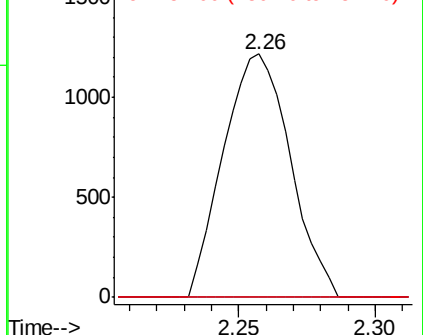
151 0.0 56.7 85.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.190 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

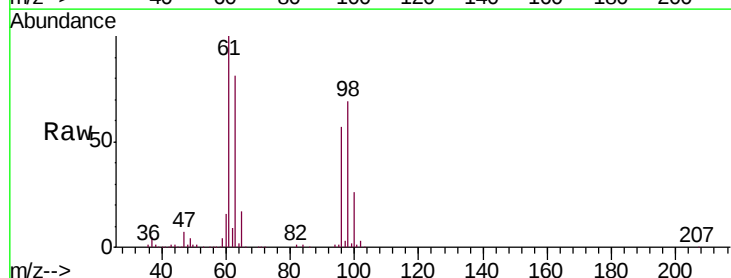
Tgt Ion: 96 Resp: 116333

Ion Ratio Lower Upper

96 100

61 174.3 126.1 234.1

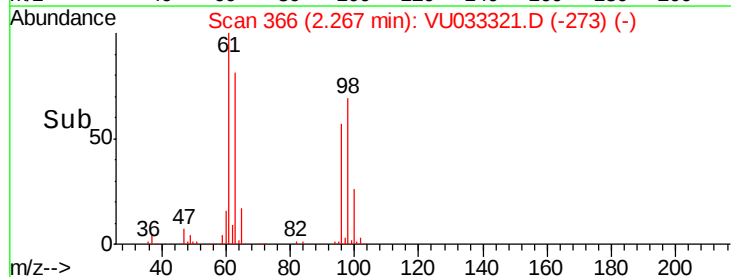
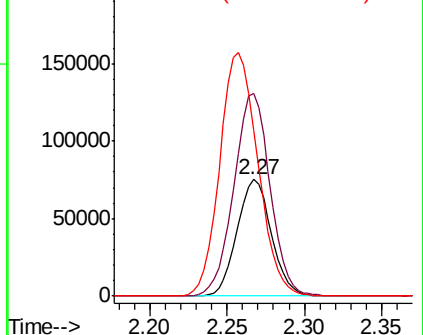
63 141.8 96.8 179.8

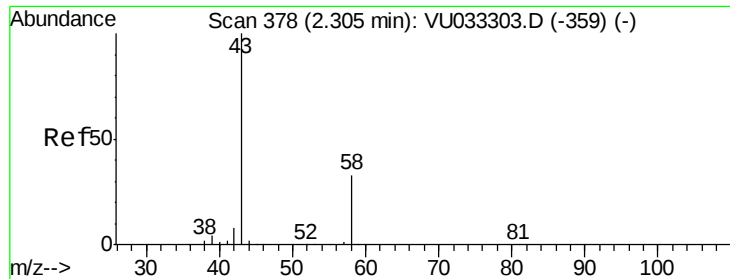


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.841 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

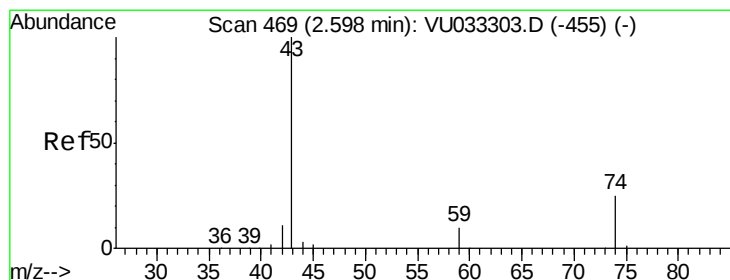
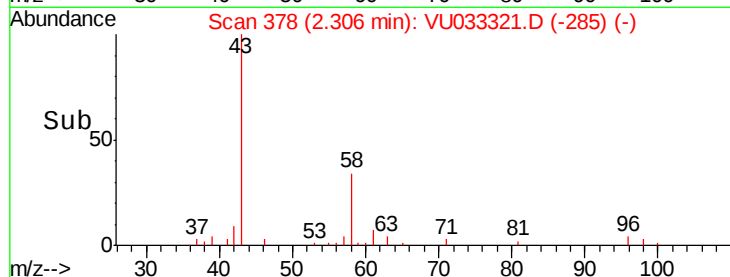
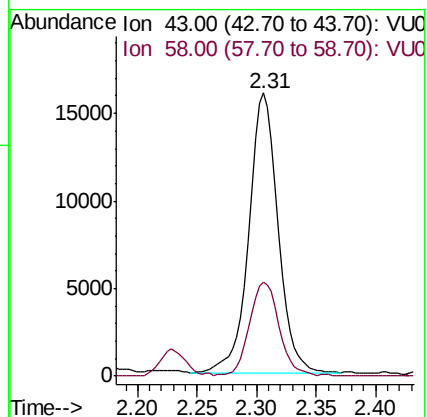
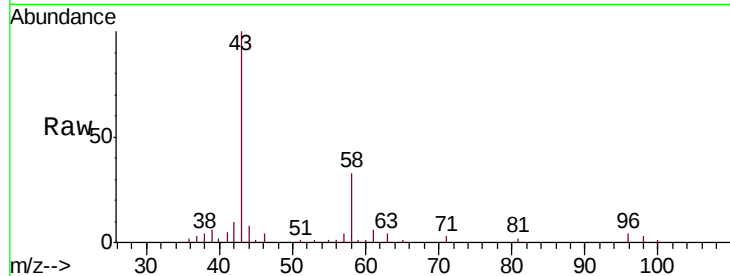
GAMR0MS

Tgt Ion: 43 Resp: 27368

Ion Ratio Lower Upper

43 100

58 33.8 0.0 65.4



#15

Methyl Acetate

Concen: 0.932 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU033321.D

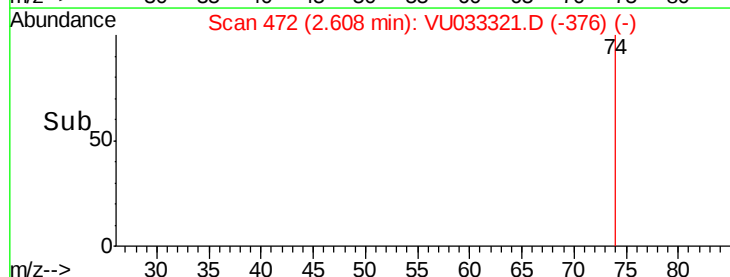
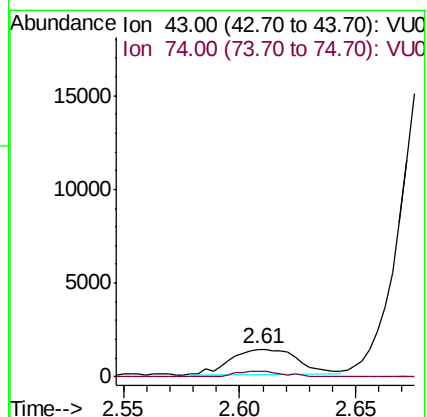
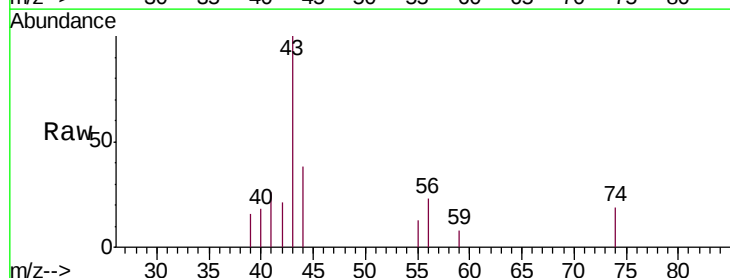
Acq: 18 Jul 2019 16:01

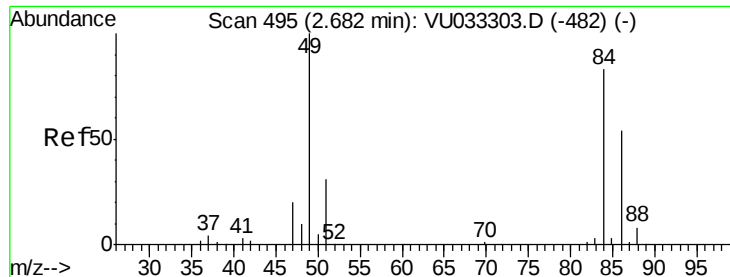
Tgt Ion: 43 Resp: 2814

Ion Ratio Lower Upper

43 100

74 13.6 19.9 29.9#

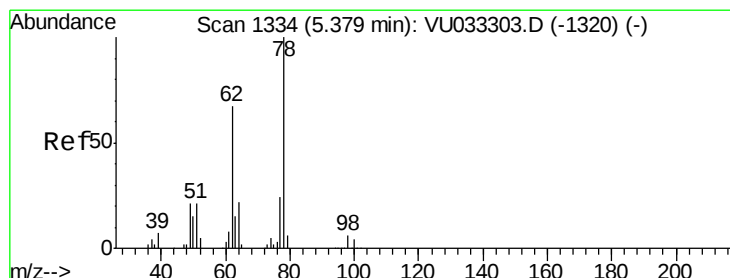
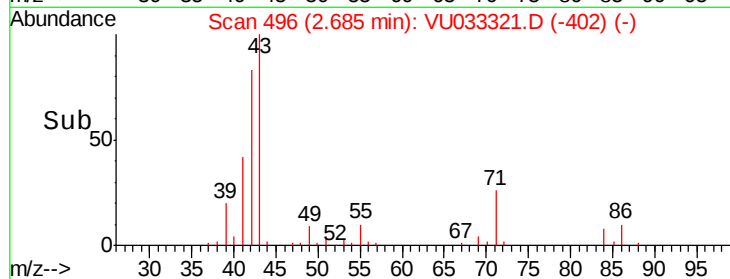
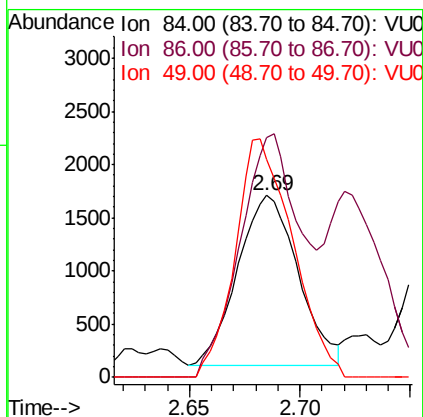
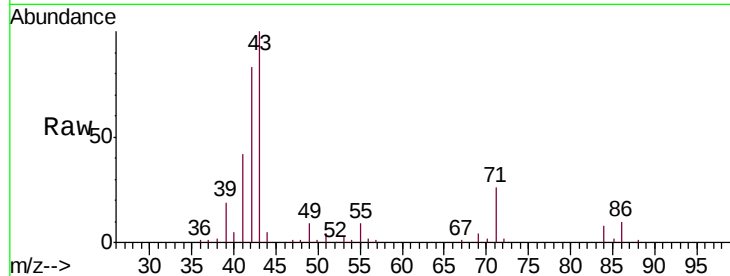




#16
Methylene chloride
Concen: 1.036 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

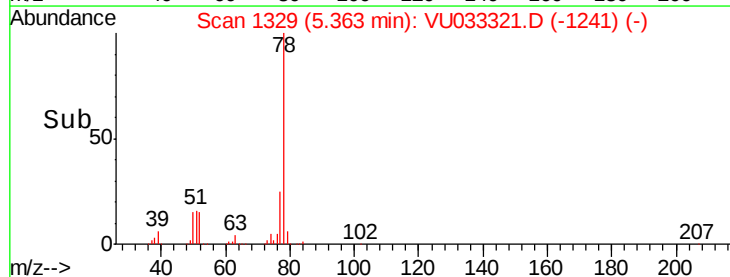
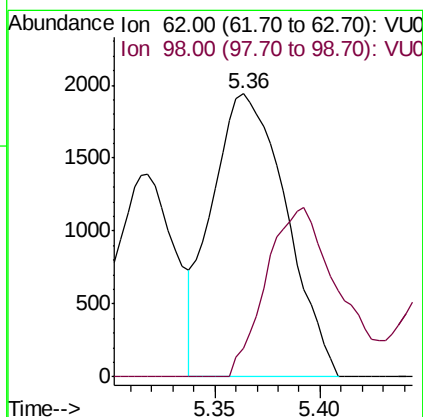
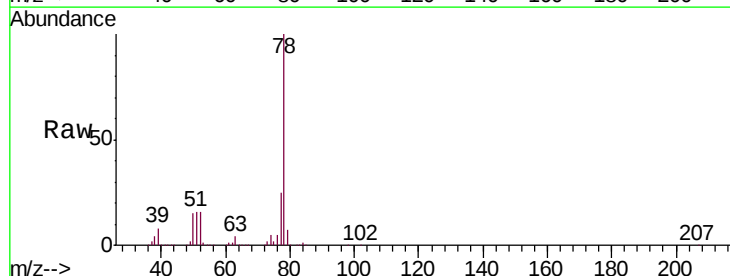
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

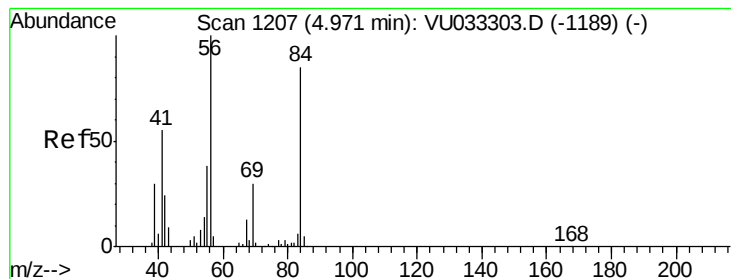
Tgt Ion: 84 Resp: 3045
Ion Ratio Lower Upper
84 100
86 132.2 45.7 84.9#
49 120.0 87.7 162.9



#27
1,2-Dichloroethane
Concen: 1.126 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

Tgt Ion: 62 Resp: 4743
Ion Ratio Lower Upper
62 100
98 10.3 7.0 10.6





#29

Cyclohexane

Concen: 15.740 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

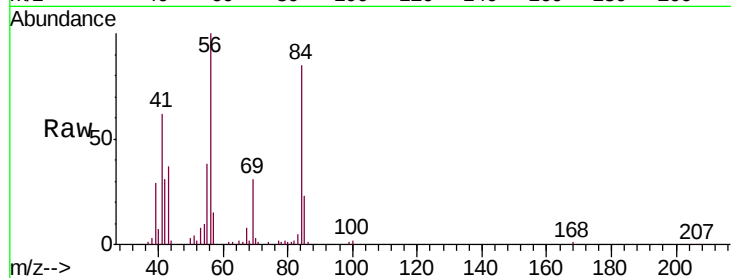
Tgt Ion: 56 Resp: 64558

Ion Ratio Lower Upper

56 100

69 27.8 24.7 37.1

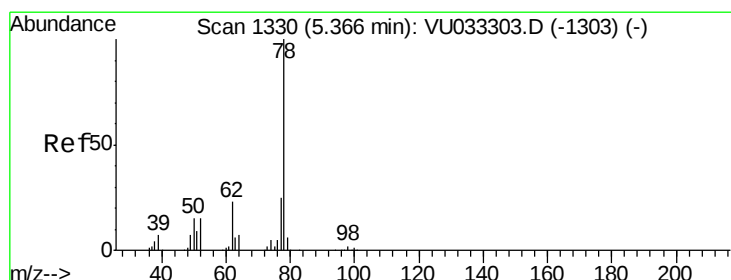
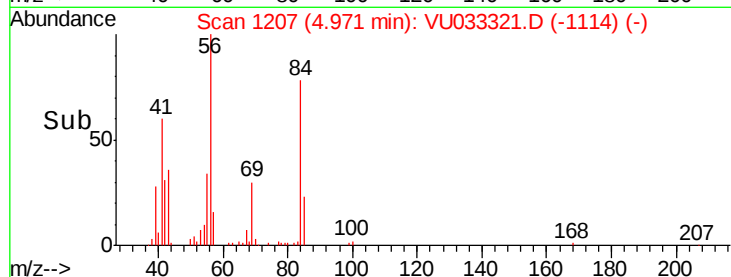
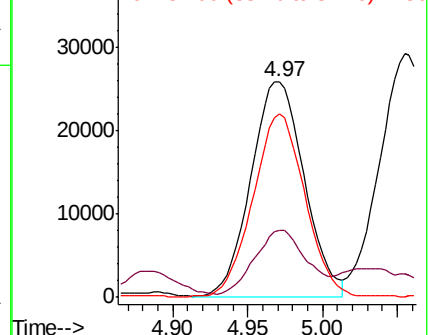
84 82.9 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VU033321.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033321.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033321.D (-1189) (-)



#33

Benzene

Concen: 47.834 ug/L

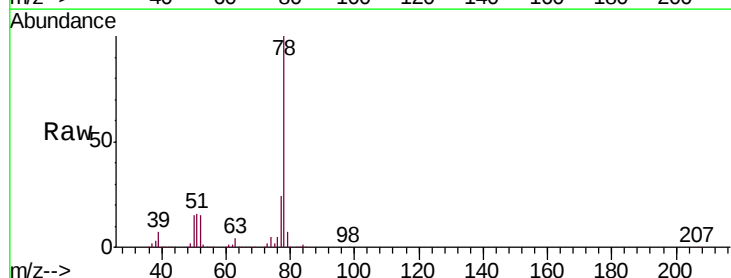
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

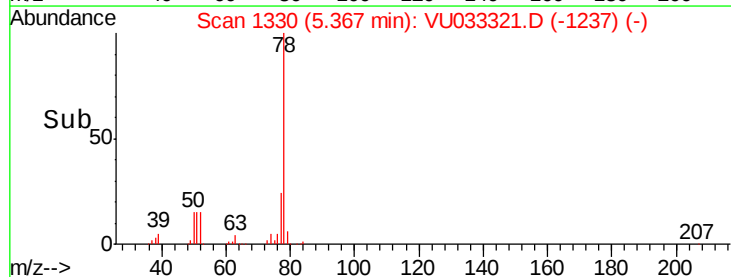
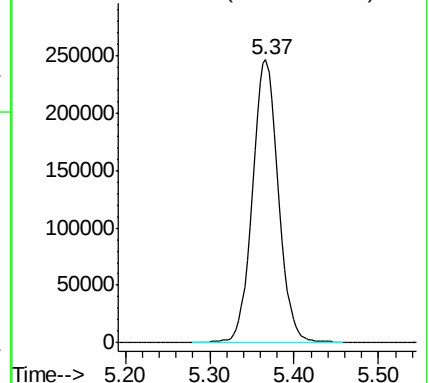
Lab File: VU033321.D

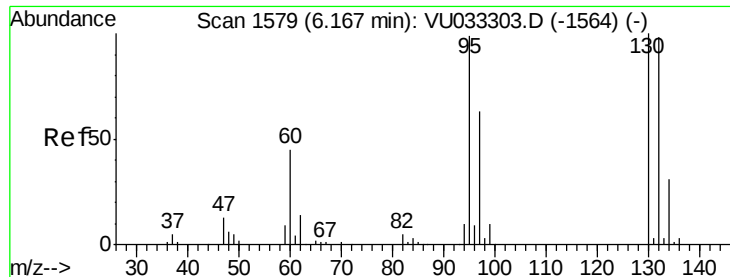
Acq: 18 Jul 2019 16:01

Tgt Ion: 78 Resp: 525060



Abundance Ion 78.00 (77.70 to 78.70): VU033321.D (-1237) (-)





#34

Trichloroethene

Concen: 47.004 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampled :

GAMR0MS

Tgt Ion: 95 Resp: 134934

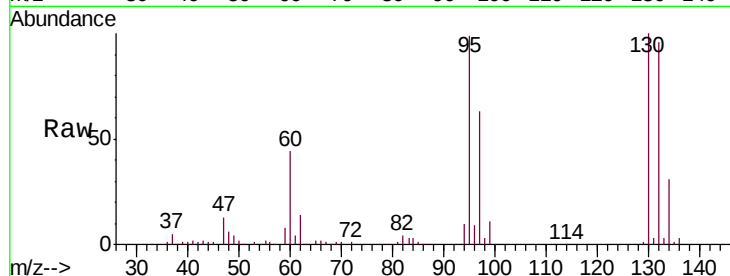
Ion Ratio Lower Upper

95 100

97 63.4 43.8 81.4

132 97.2 65.5 121.6

130 101.3 69.7 129.5

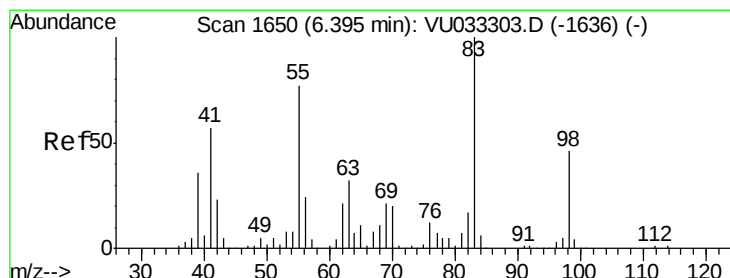
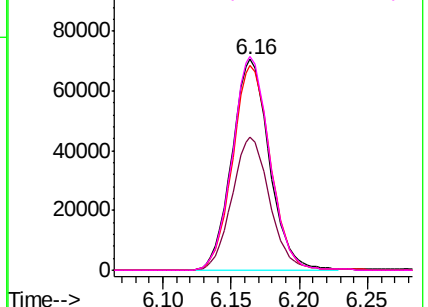
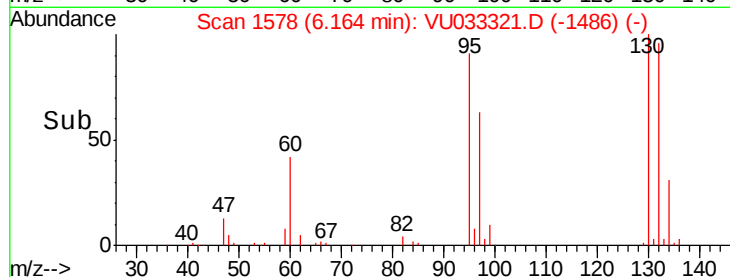


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 22.018 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

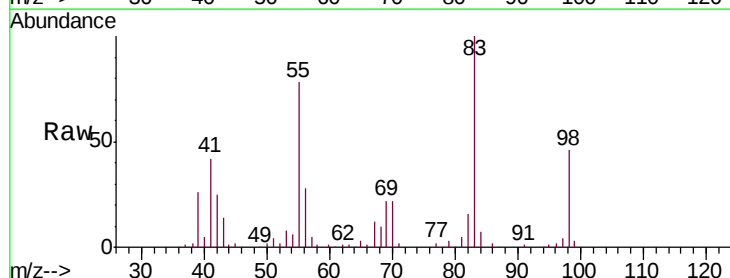
Tgt Ion: 83 Resp: 96823

Ion Ratio Lower Upper

83 100

55 84.6 60.5 90.7

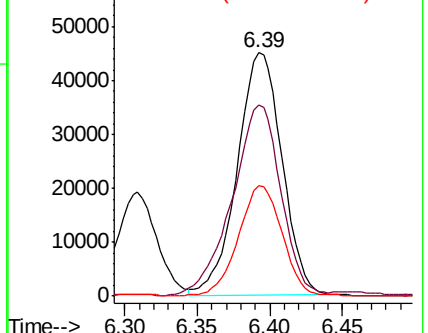
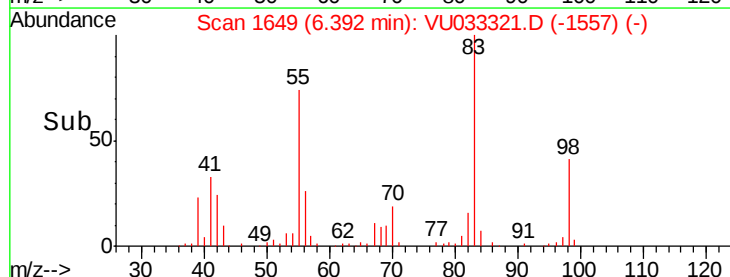
98 44.6 37.4 56.0

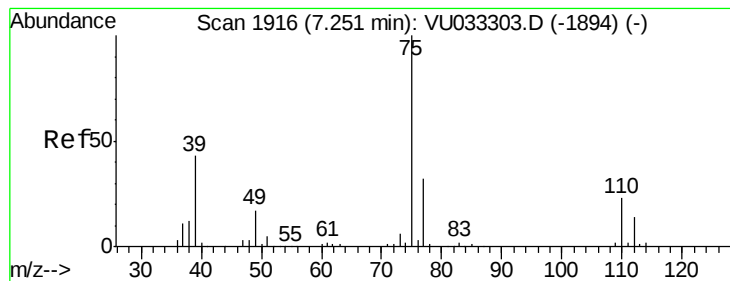


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



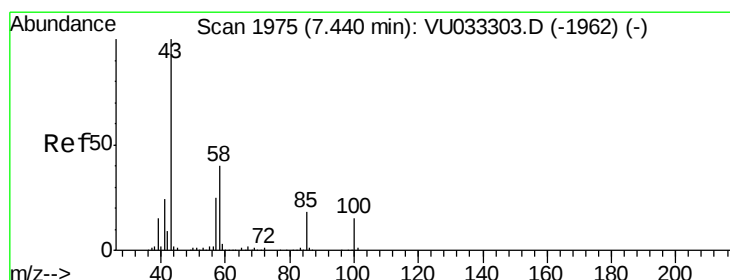
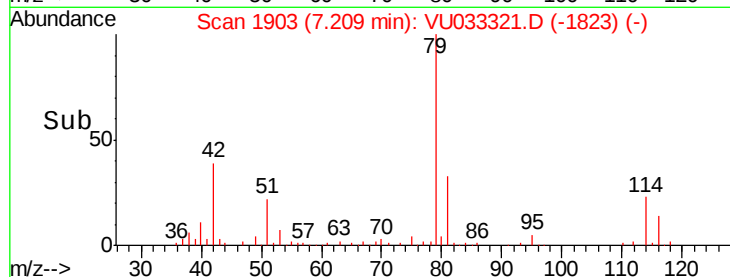
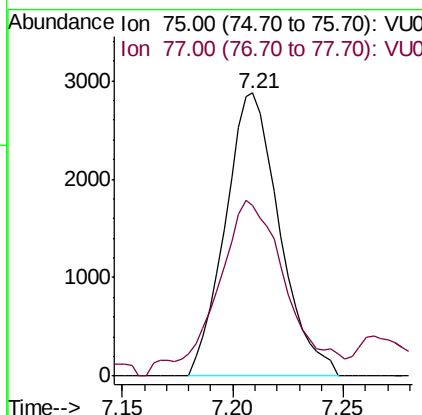
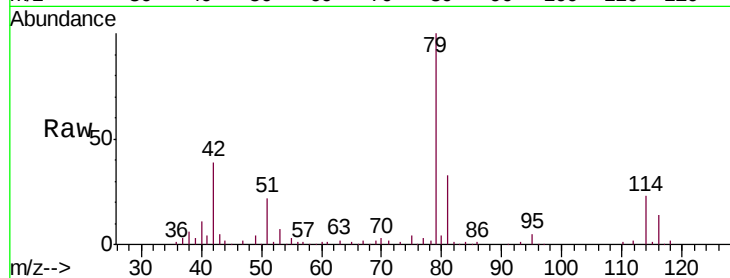


#39

cis-1,3-Dichloropropene
 Concen: 1.077 ug/L
 RT: 7.21 min Scan# 1903
 Delta R.T. -0.04 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMR0MS

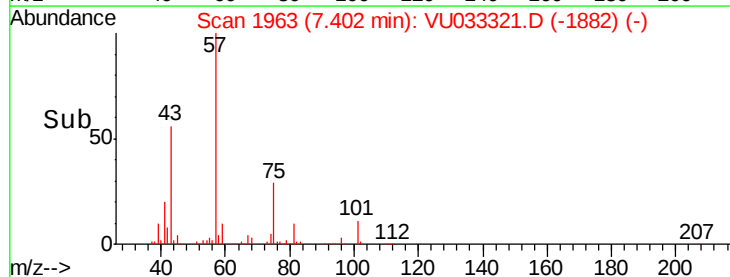
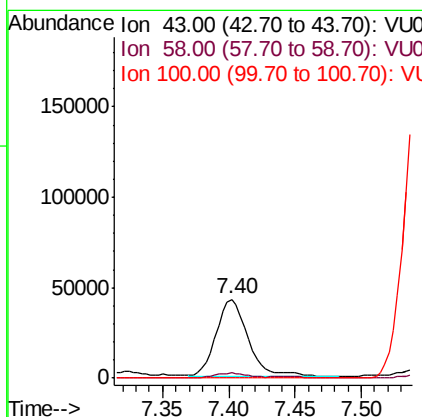
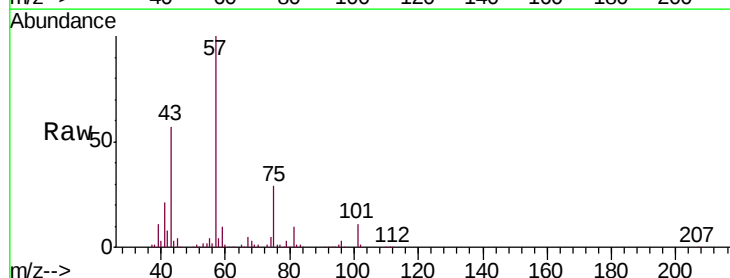
Tgt Ion: 75 Resp: 4916
 Ion Ratio Lower Upper
 75 100
 77 60.5 23.1 42.9#

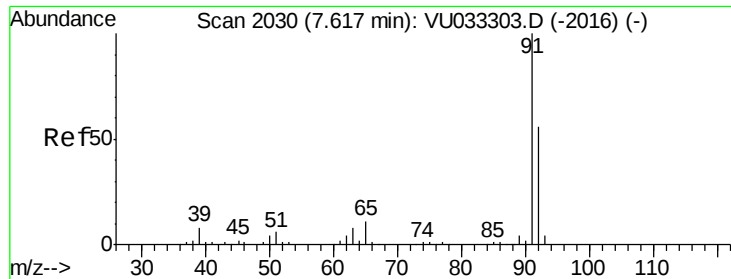


#40

4-Methyl-2-pentanone
 Concen: 18.400 ug/L
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Tgt Ion: 43 Resp: 73479
 Ion Ratio Lower Upper
 43 100
 58 6.6 33.3 49.9#
 100 0.0 12.1 18.1#





#42

Toluene

Concen: 49.120 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

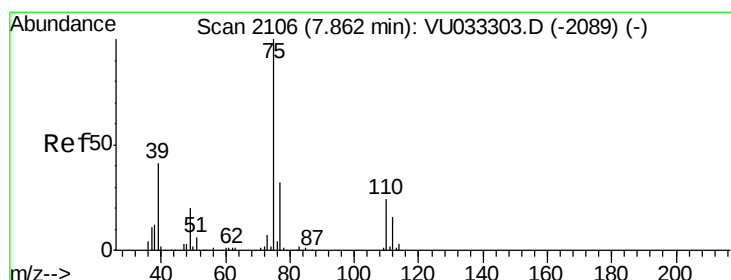
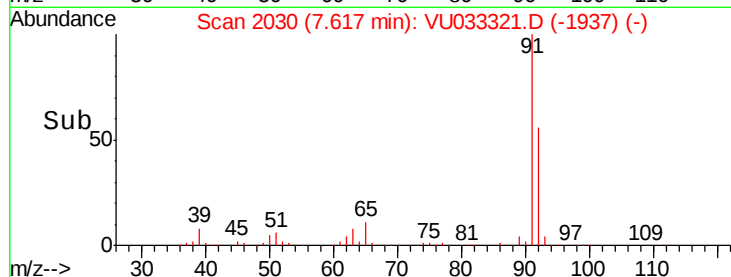
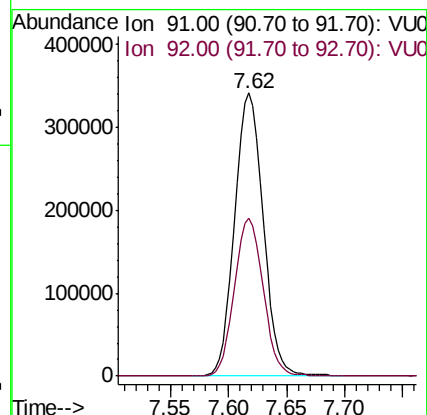
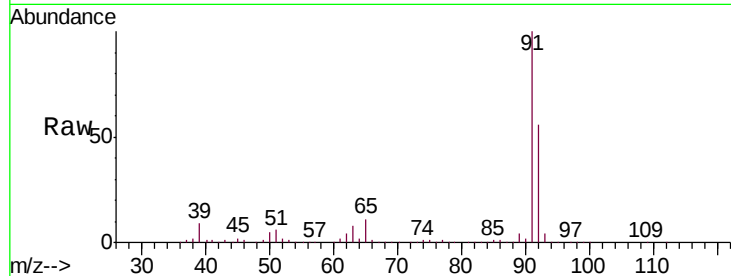
GAMR0MS

Tgt Ion: 91 Resp: 581290

Ion Ratio Lower Upper

91 100

92 55.9 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 0.916 ug/L

RT: 7.83 min Scan# 2096

Delta R.T. -0.03 min

Lab File: VU033321.D

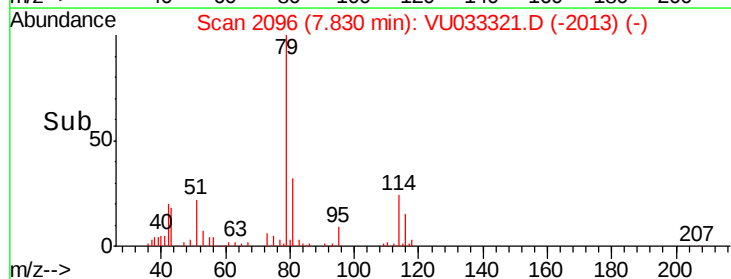
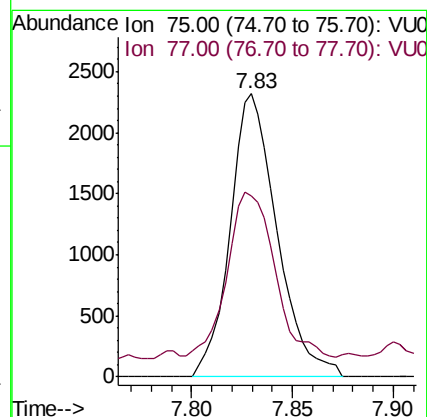
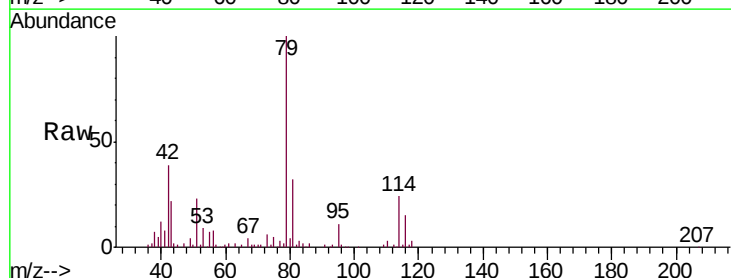
Acq: 18 Jul 2019 16:01

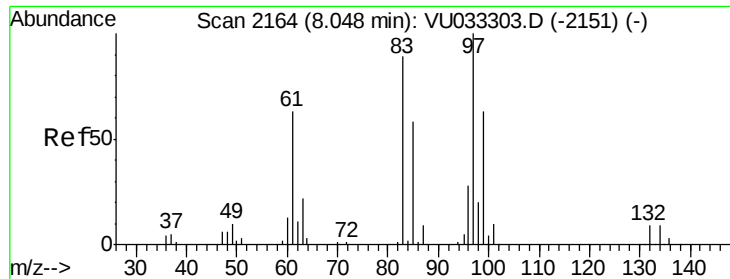
Tgt Ion: 75 Resp: 3771

Ion Ratio Lower Upper

75 100

77 64.0 22.4 41.6#

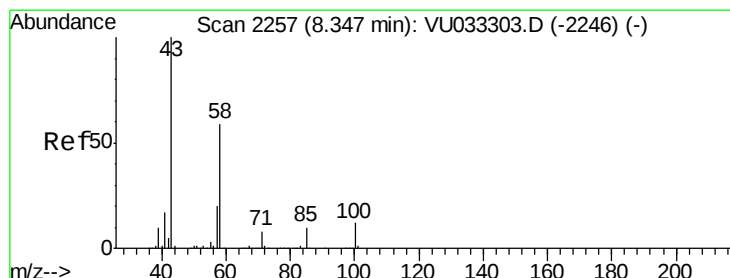
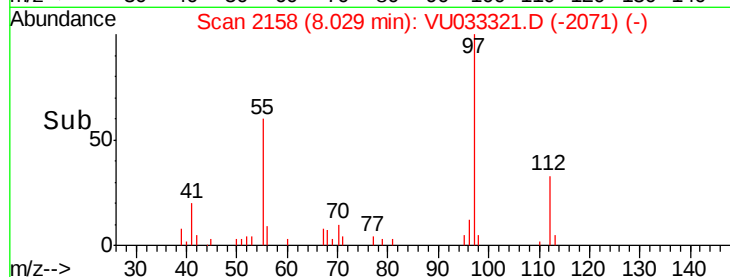
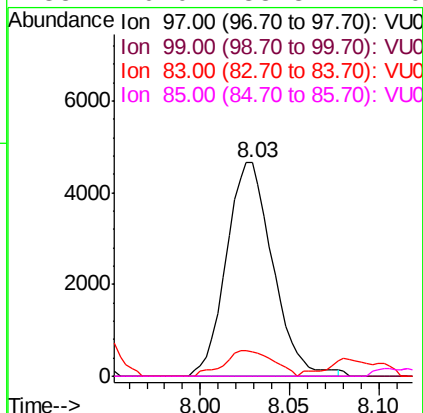
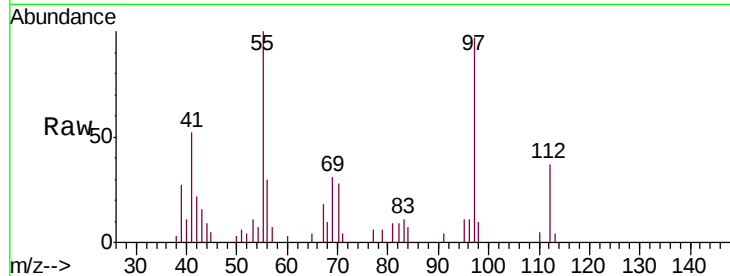




#45
 1,1,2-Trichloroethane
 Concen: 2.979 ug/L
 RT: 8.03 min Scan# 2158
 Delta R.T. -0.02 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

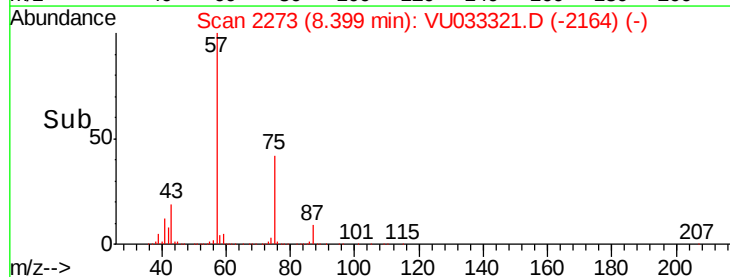
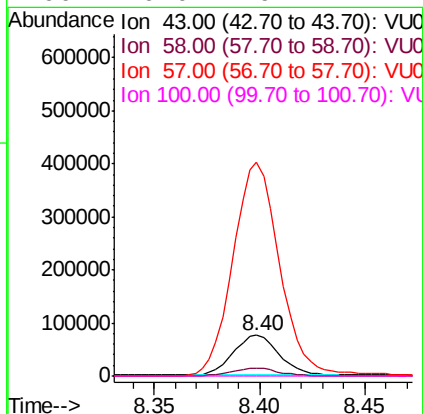
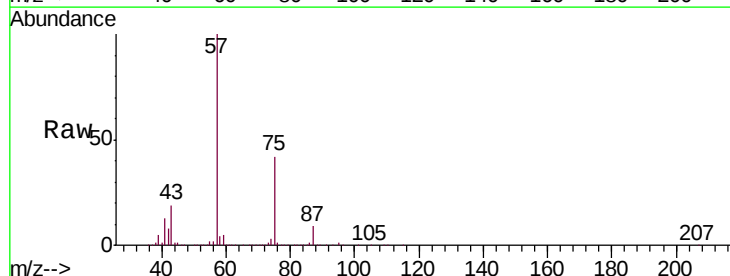
Instrument :
 MSVOA_U
 ClientSampleId :
 GAMR0MS

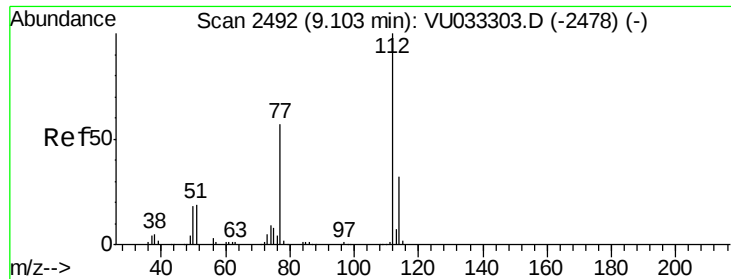
Tgt Ion: 97 Resp: 8386
 Ion Ratio Lower Upper
 97 100
 99 0.0 43.0 79.8#
 83 11.3 61.5 114.3#
 85 0.0 38.8 72.0#



#48
 2-Hexanone
 Concen: 34.582 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Tgt Ion: 43 Resp: 112507
 Ion Ratio Lower Upper
 43 100
 58 21.5 46.1 69.1#
 57 554.0 15.8 23.8#
 100 0.0 9.4 14.2#





#51

Chlorobenzene

Concen: 48.140 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

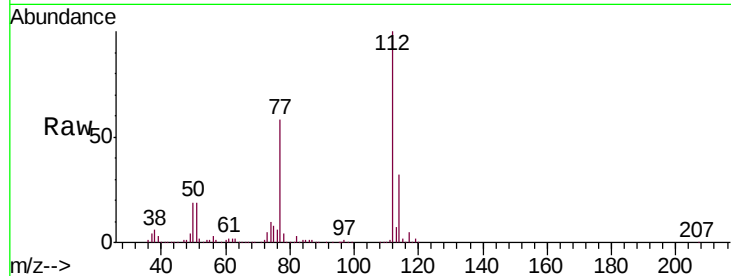
Tgt Ion: 112 Resp: 371843

Ion Ratio Lower Upper

112 100

114 32.4 22.3 41.3

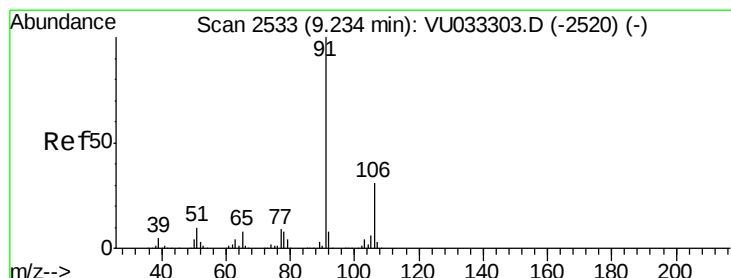
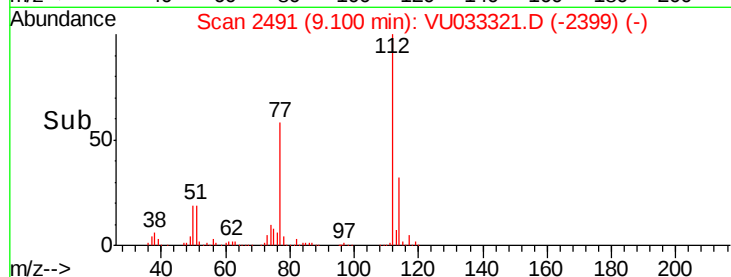
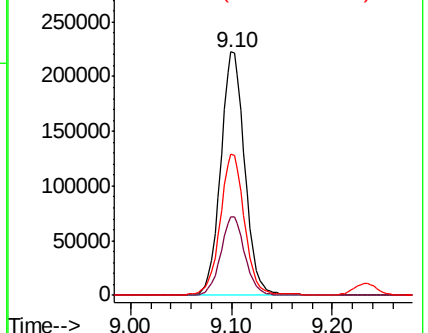
77 57.9 47.2 70.8



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): V



#52

Ethylbenzene

Concen: 15.700 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033321.D

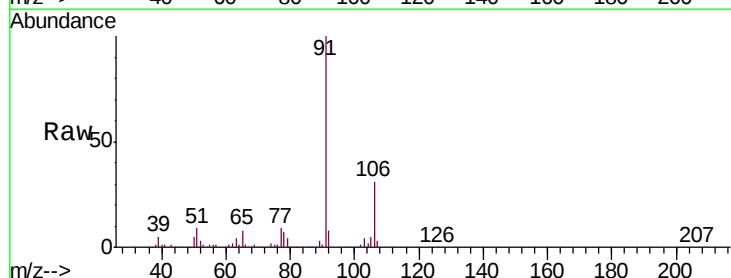
Acq: 18 Jul 2019 16:01

Tgt Ion: 91 Resp: 198813

Ion Ratio Lower Upper

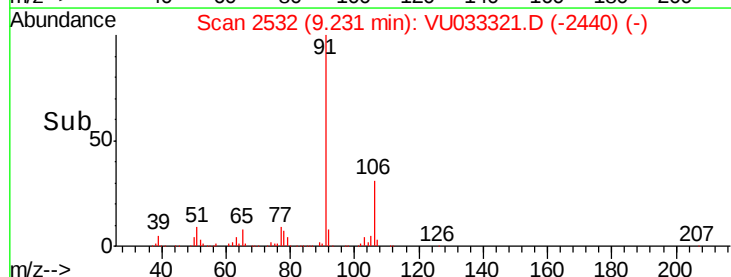
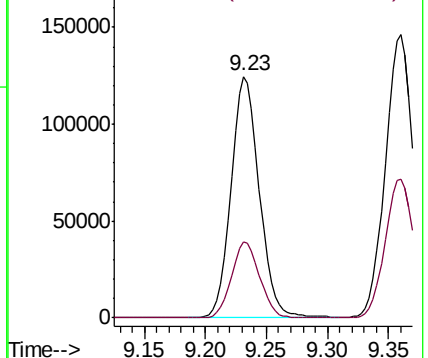
91 100

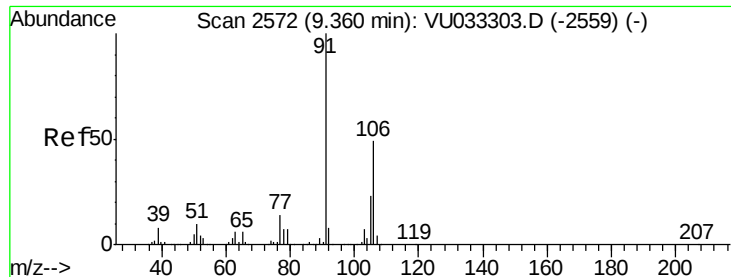
106 31.3 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 24.880 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

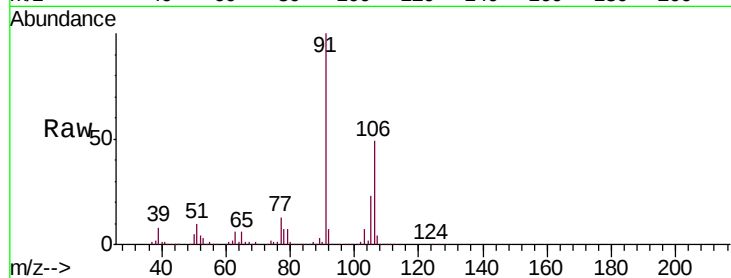
GAMR0MS

Tgt Ion:106 Resp: 119334

Ion Ratio Lower Upper

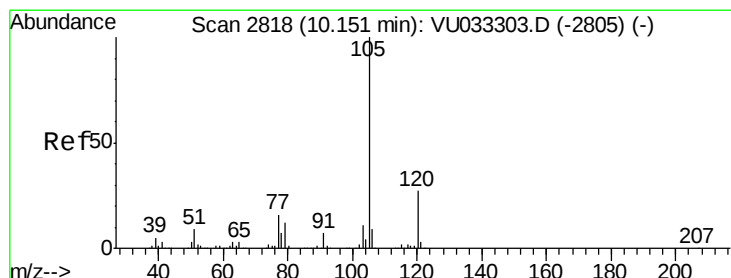
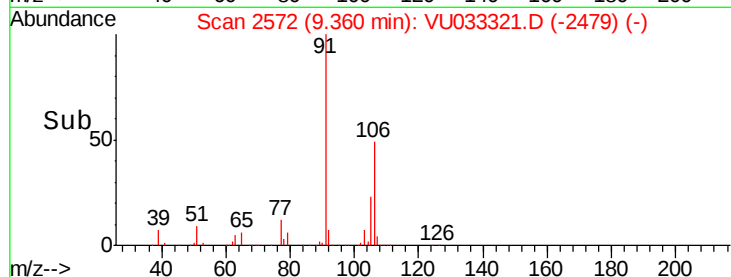
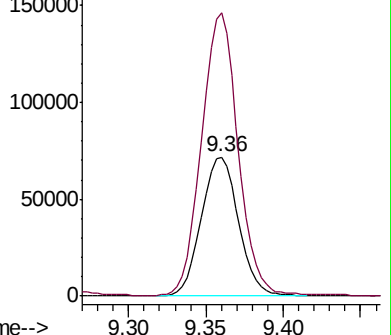
106 100

91 203.3 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 5.908 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

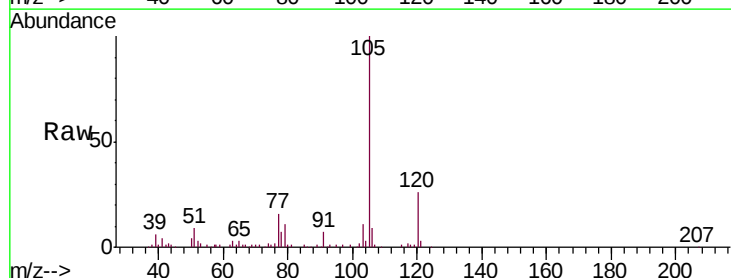
Tgt Ion:105 Resp: 72410

Ion Ratio Lower Upper

105 100

120 25.9 21.2 31.8

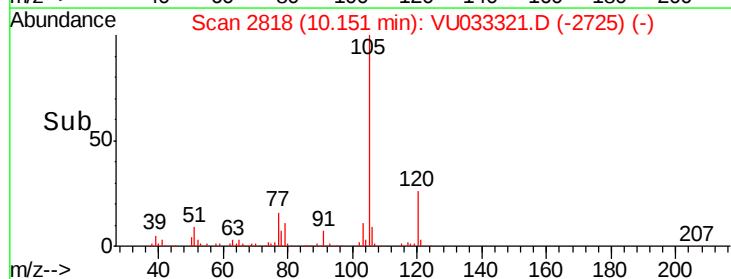
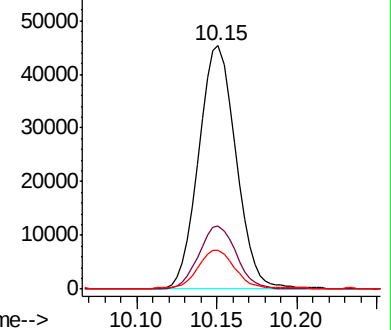
77 15.0 12.9 19.3

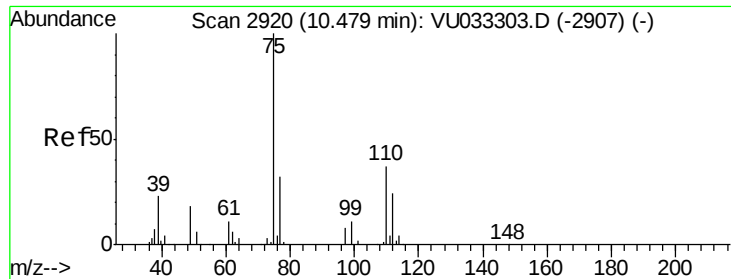


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#59

1,2,3-Trichloropropane

Concen: 0.426 ug/L

RT: 10.57 min Scan# 2949

Delta R.T. 0.09 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

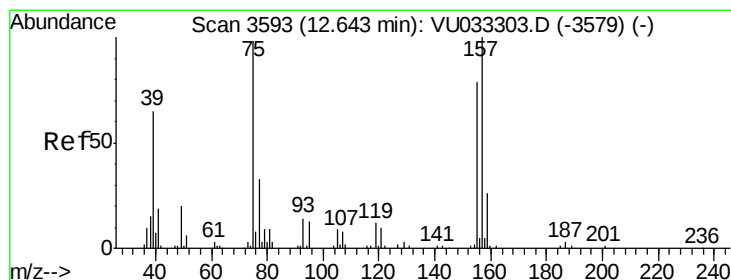
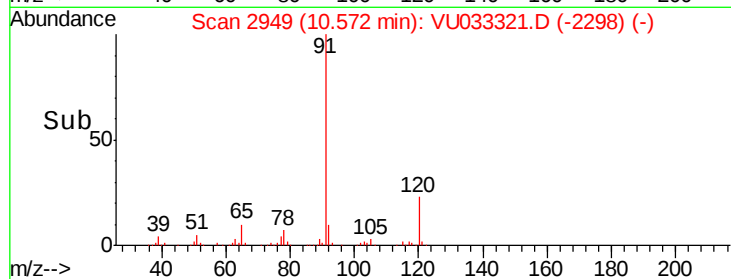
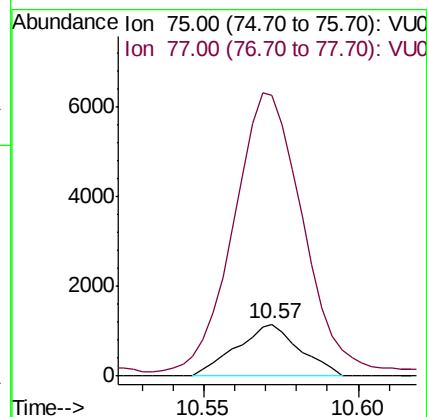
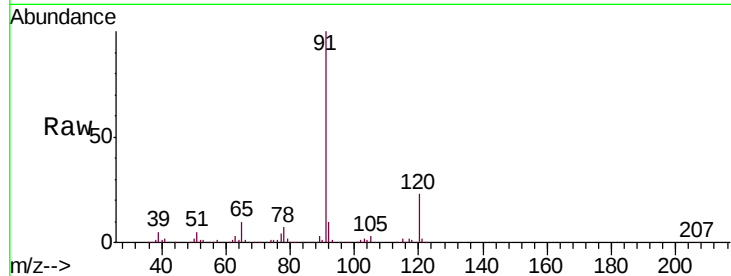
GAMR0MS

Tgt Ion: 75 Resp: 1649

Ion Ratio Lower Upper

75 100

77 578.9 26.0 39.0#



#66

1,2-Dibromo-3-chloropropane

Concen: 1.030 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.05 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

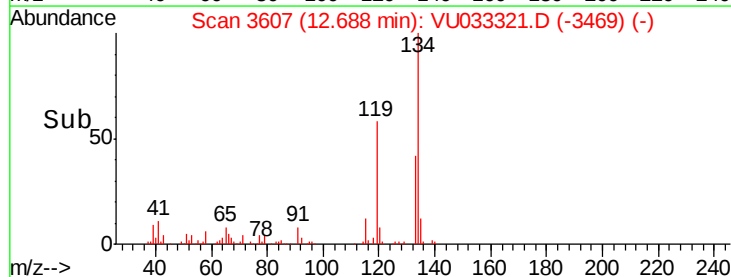
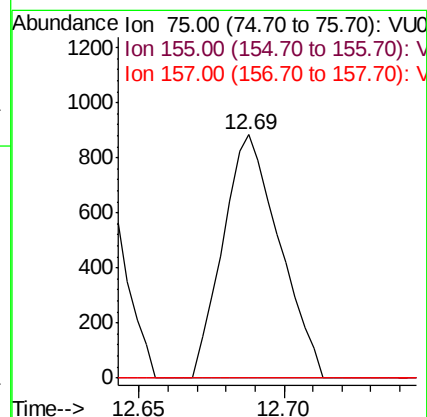
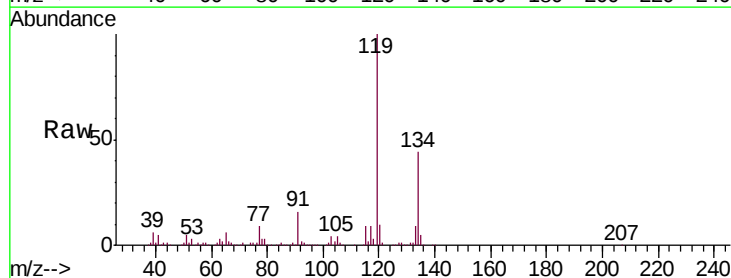
Tgt Ion: 75 Resp: 1195

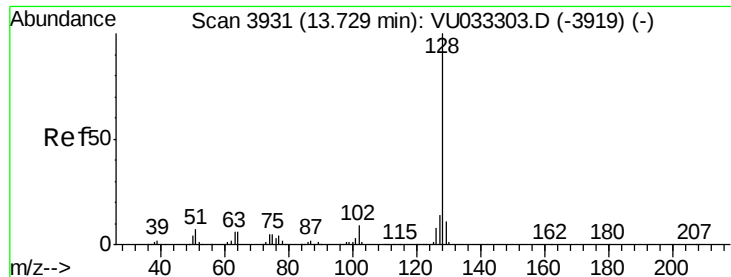
Ion Ratio Lower Upper

75 100

155 0.0 63.5 95.3#

157 0.0 84.6 127.0#





#69

Naphthalene

Concen: 8.860 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

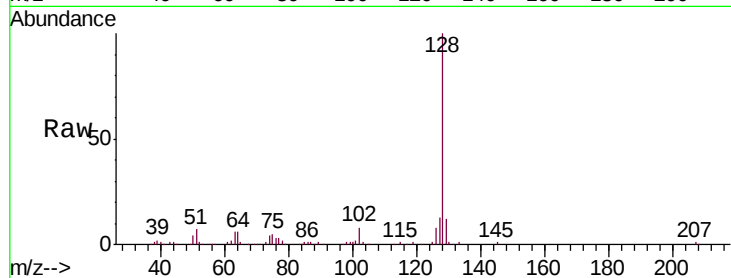
Tgt Ion:128 Resp: 106316

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

129 12.0 8.7 13.1



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

