

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
 Data File : VU035254.D
 Acq On : 18 Oct 2019 09:09
 Operator : JC/SP
 Sample : K5419-04MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 18 13:54:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 13:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	332730	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	316760	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	142309	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	111828	5.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	110.20%
7) Chloroethane-d5	1.93	69	100834	5.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.80%
11) 1,1-Dichloroethene-d2	2.60	63	193871	5.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.40%
20) 2-Butanone-d5	4.71	46	291292	49.96	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.92%
24) Chloroform-d	5.12	84	199901	5.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.80%
26) 1,2-Dichloroethane-d4	5.75	65	111096	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.20%
32) Benzene-d6	5.77	84	410606	5.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.40%
36) 1,2-Dichloropropane-d6	6.74	67	130793	5.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.80%
41) Toluene-d8	7.93	98	386784	5.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.60%
43) trans-1,3-Dichloropropene-	8.22	79	59779	5.36	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.20%
46) 2-Hexanone-d5	8.68	63	251455	51.08	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.16%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	106437	5.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	141303	5.45	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	14359	0.498	ug/L	84
12) 1,1-Dichloroethene	2.61	96	75627	3.538	ug/L	96
13) Acetone	2.68	43	10568	2.606	ug/L	87
18) trans-1,2-Dichloroethene	3.39	96	6360	0.276	ug/L	97
22) cis-1,2-Dichloroethene	4.72	96	15201	0.596	ug/L	97
27) 1,2-Dichloroethane	5.82	62	3733	0.133	ug/L	97
30) Cyclohexane	5.43	56	3417	0.086	ug/L	88
33) Benzene	5.82	78	393197	4.219	ug/L	100
34) Trichloroethene	6.58	95	100797	4.023	ug/L	98
35) Methylcyclohexane	6.74	83	31394	0.750	ug/L #	19
37) 1,2-Dichloropropane	6.74	63	14274	0.603	ug/L #	86
39) cis-1,3-Dichloropropene	7.61	75	3943	0.100	ug/L #	37
42) Toluene	8.01	91	430091	4.180	ug/L	98
45) 1,1,2-Trichloroethane	8.40	97	3662	0.208	ug/L #	21
48) 2-Hexanone	8.74	43	11786	1.052	ug/L #	87
51) Chlorobenzene	9.48	112	296705	4.467	ug/L	98
52) Ethylbenzene	9.60	91	14693	0.126	ug/L	92

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Response via : Initial Calibration

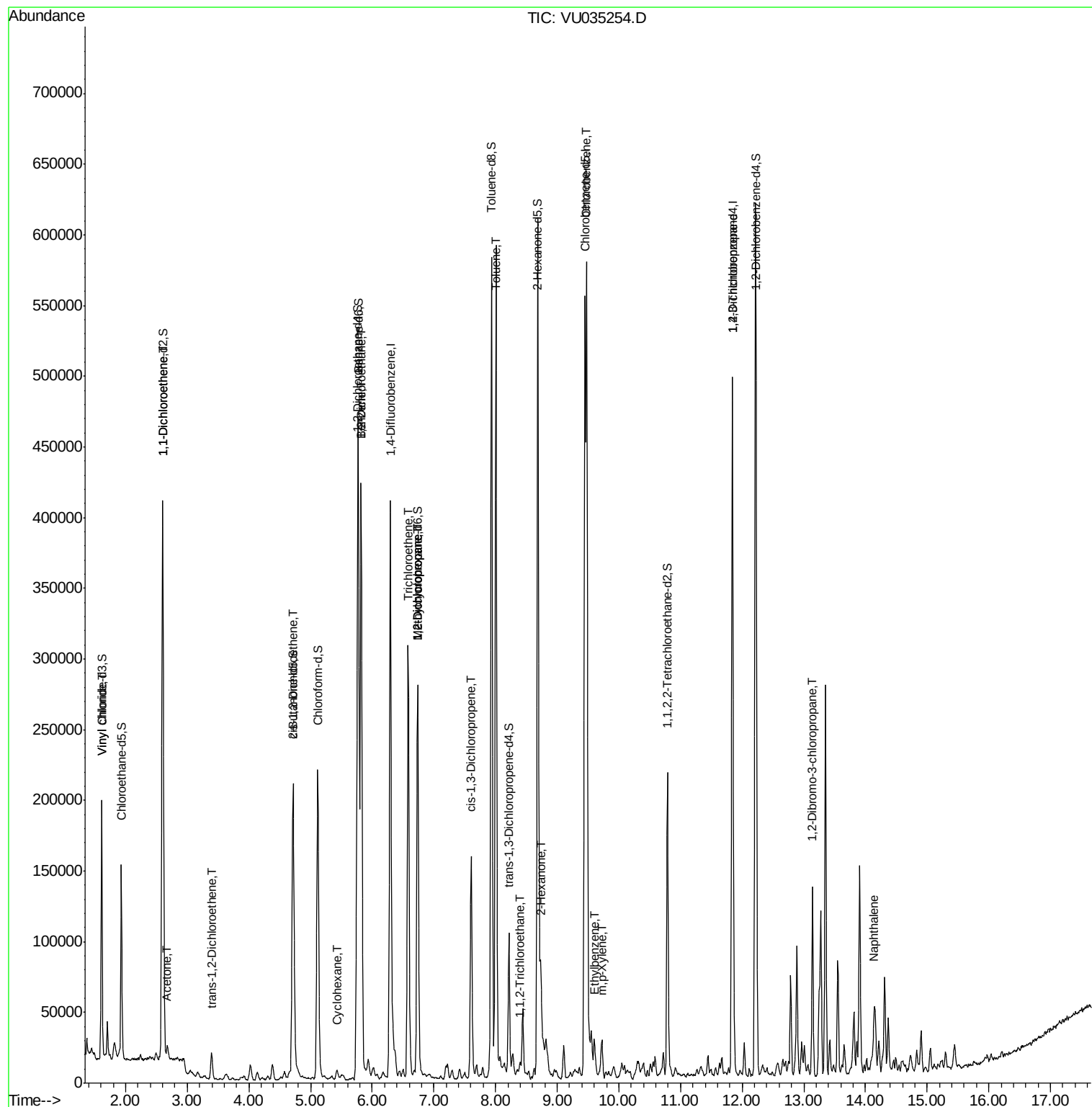
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.73	106	3539	0.080	ug/L	86
59) 1,2,3-Trichloropropane	11.84	75	16794	1.019	ug/L	89
66) 1,2-Dibromo-3-chloropropan	13.14	75	1133	0.352	ug/L #	1
69) Naphthalene	14.14	128	5674	0.206	ug/L #	80

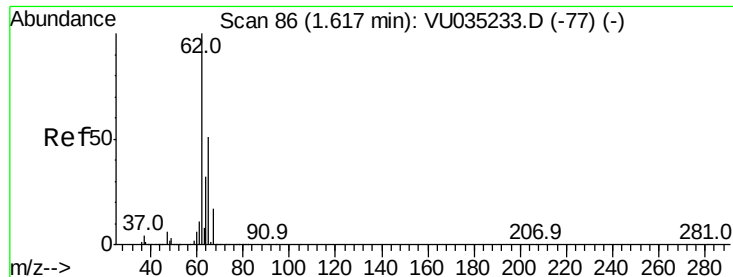
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.498 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Instrument :

MSVOA_U

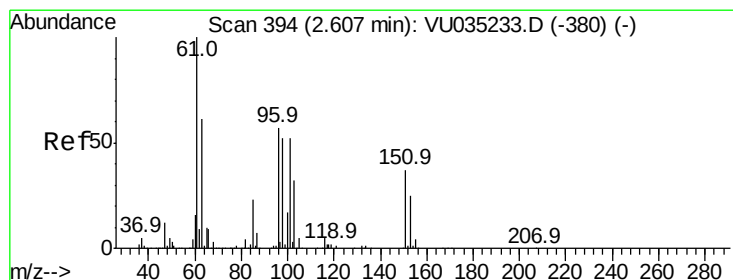
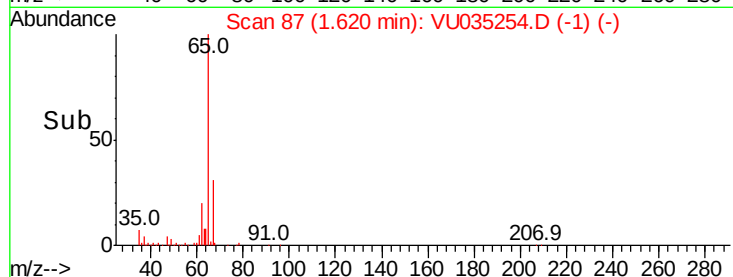
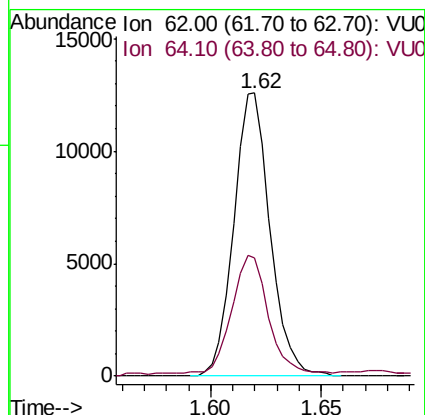
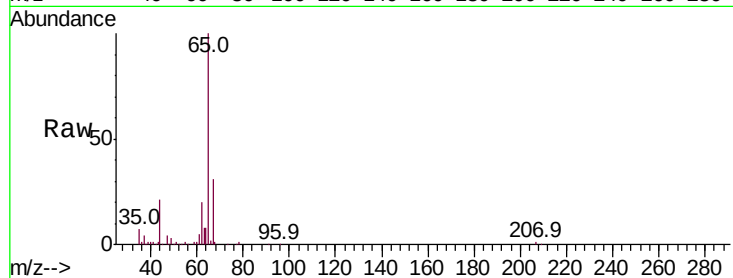
ClientSampleId :

Tot Ion: 62 Resp: 14359

Ion Ratio Lower Upper

62 100

64 41.7 22.9 42.5



#12

1,1-Dichloroethene

Concen: 3.538 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

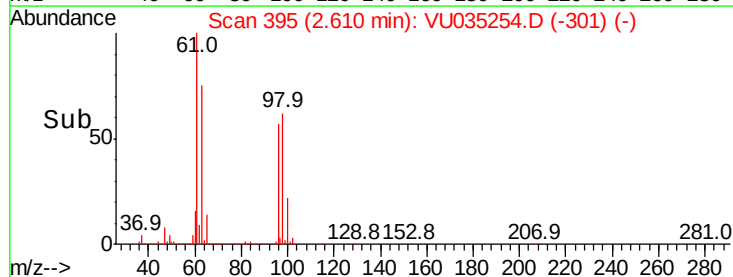
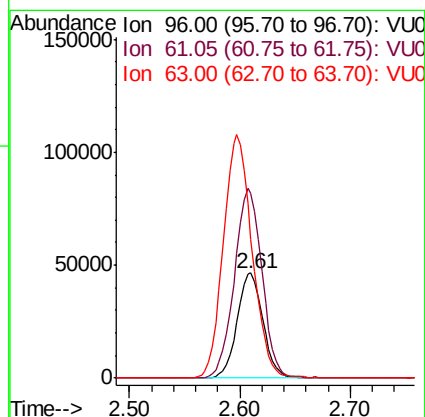
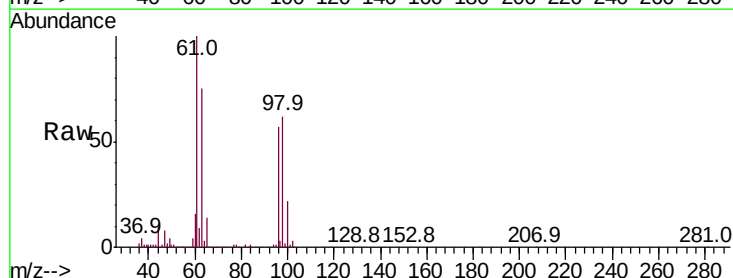
Tgt Ion: 96 Resp: 75627

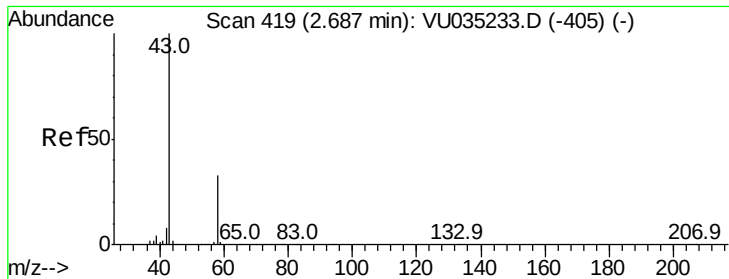
Ion Ratio Lower Upper

96 100

61 175.2 120.6 224.0

63 132.3 86.8 161.2





#13

Acetone

Concen: 2.606 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.01 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

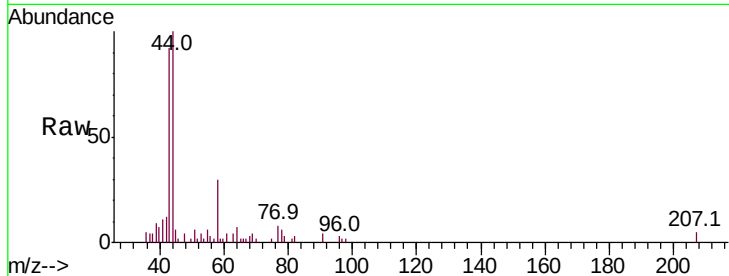
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 10568

Ion Ratio Lower Upper

43 100

58 37.9 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035233.D (-405) (-)

Ion 58.05 (57.75 to 58.75): VU035233.D (-405) (-)

2.68

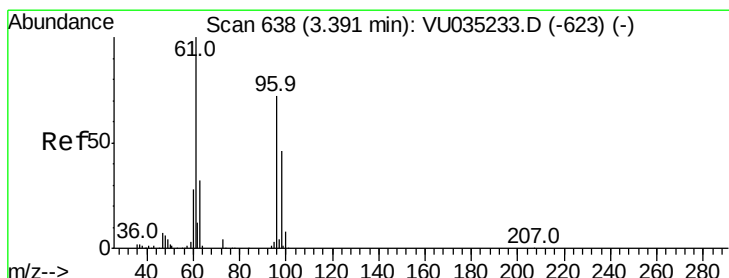
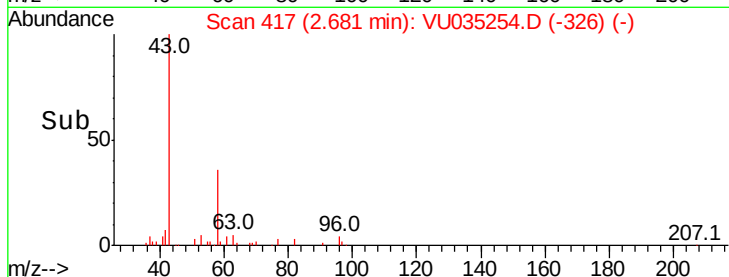
6000

4000

2000

0

Time--> 2.60 2.65 2.70 2.75



#18

trans-1,2-Dichloroethene

Concen: 0.276 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

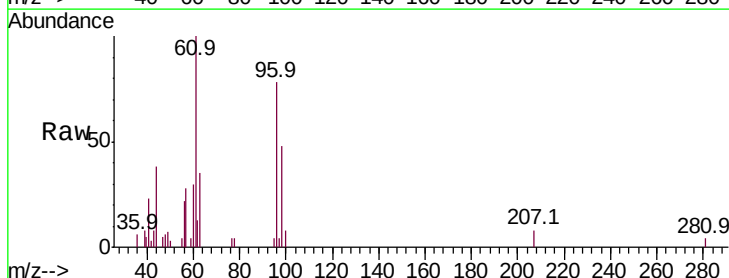
Tgt Ion: 96 Resp: 6360

Ion Ratio Lower Upper

96 100

61 128.5 93.0 172.6

98 61.4 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035233.D (-623) (-)

Ion 61.05 (60.75 to 61.75): VU035233.D (-623) (-)

Ion 97.95 (97.65 to 98.65): VU035233.D (-623) (-)

3.39

5000

4000

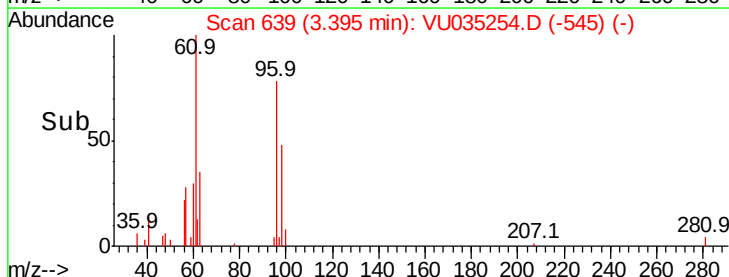
3000

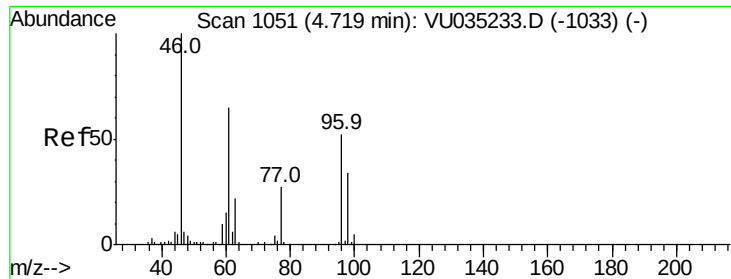
2000

1000

0

Time--> 3.35 3.40 3.45





#22

cis-1,2-Dichloroethene

Concen: 0.596 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

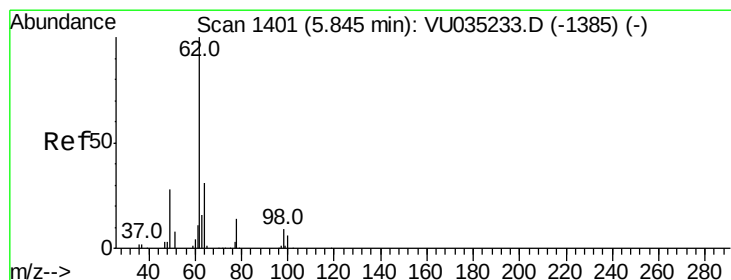
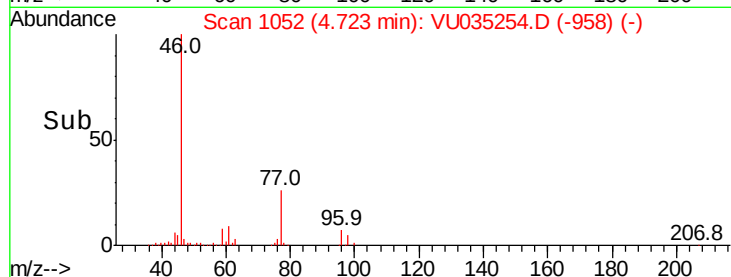
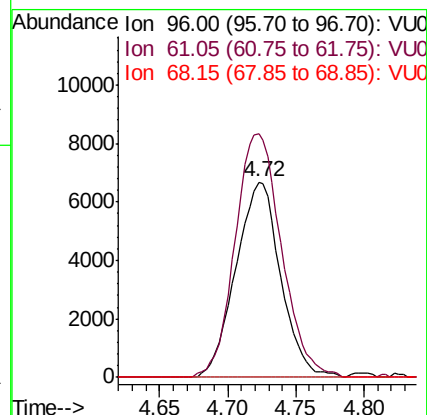
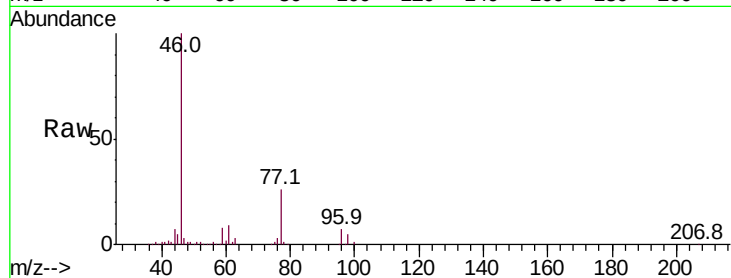
Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 15201

Ion	Ratio	Lower	Upper
96	100		
61	124.7	89.7	166.5
68	0.0	0.0	0.0



#27

1,2-Dichloroethane

Concen: 0.133 ug/L

RT: 5.82 min Scan# 1393

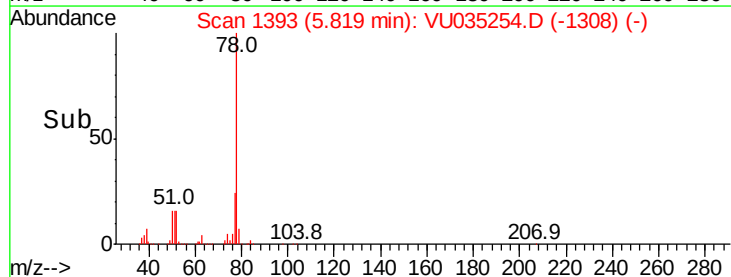
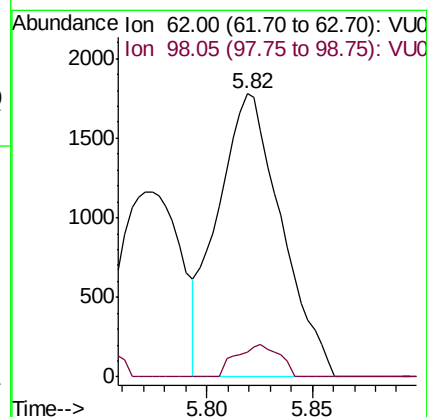
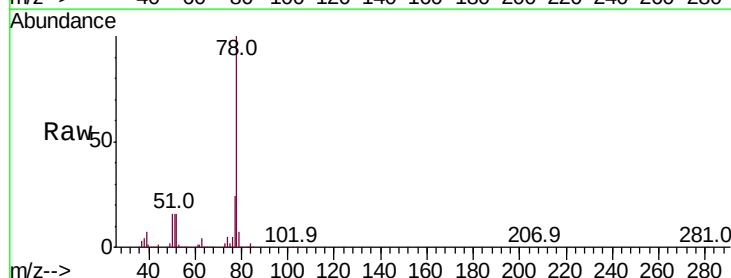
Delta R.T. -0.03 min

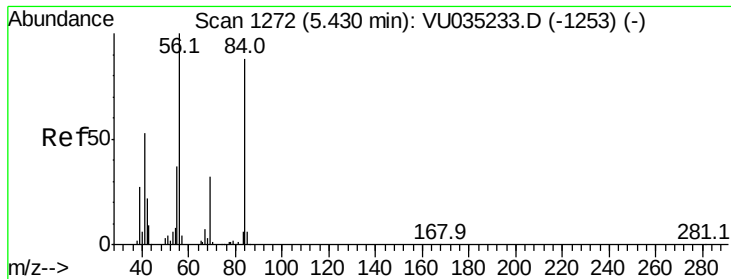
Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Tgt Ion: 62 Resp: 3733

Ion	Ratio	Lower	Upper
62	100		
98	8.7	7.8	11.6

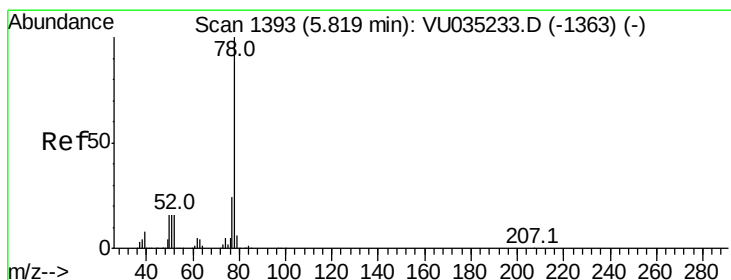
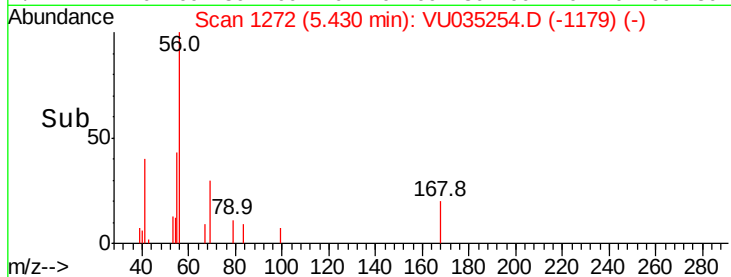
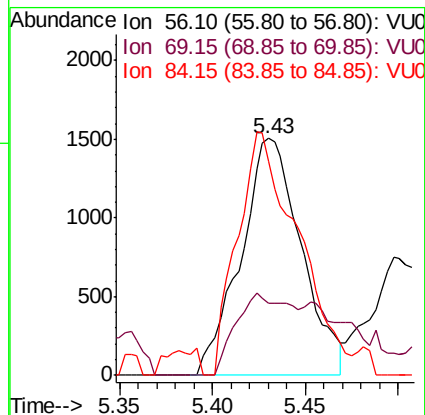
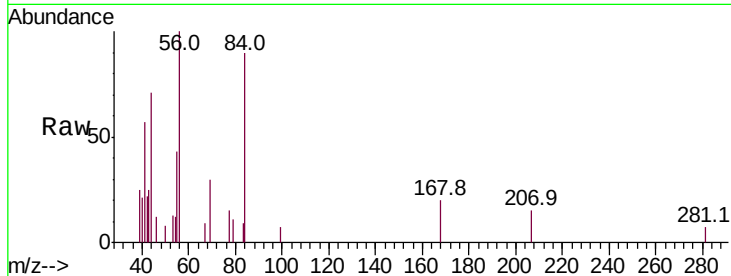




#30
Cyclohexane
Concen: 0.086 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU035254.D
Acq: 18 Oct 2019 09:09

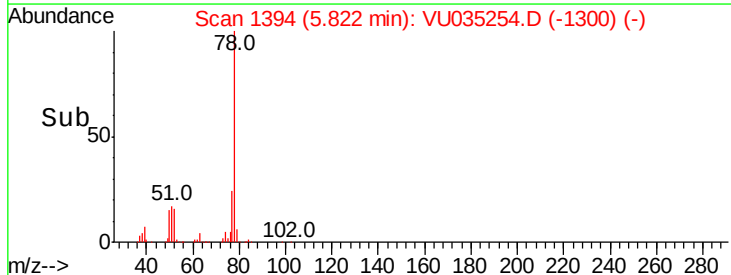
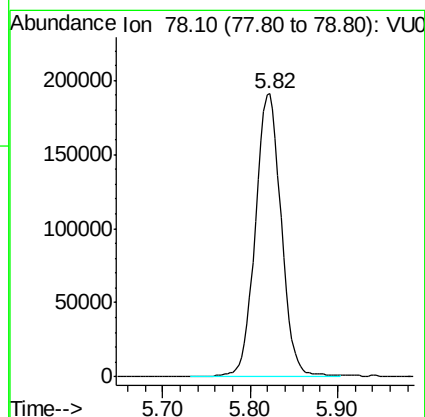
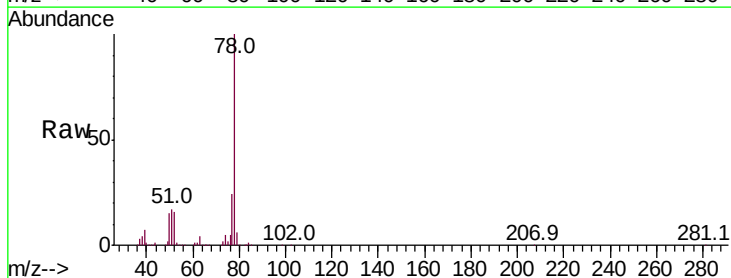
Instrument :
MSVOA_U
ClientSampleId :

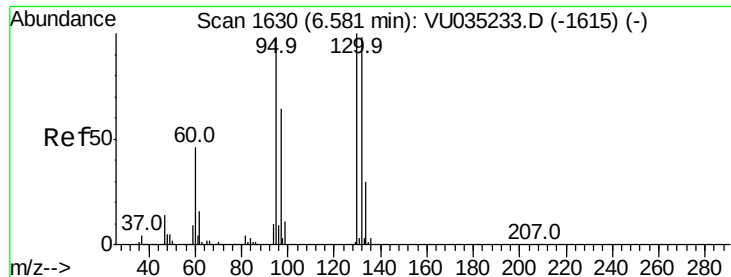
Tot Ion: 56 Resp: 3417
Ion Ratio Lower Upper
56 100
69 31.6 24.6 36.8
84 103.4 71.5 107.3



#33
Benzene
Concen: 4.219 ug/L
RT: 5.82 min Scan# 1394
Delta R.T. 0.00 min
Lab File: VU035254.D
Acq: 18 Oct 2019 09:09

Tgt Ion: 78 Resp: 393197





#34

Trichloroethene

Concen: 4.023 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 100797

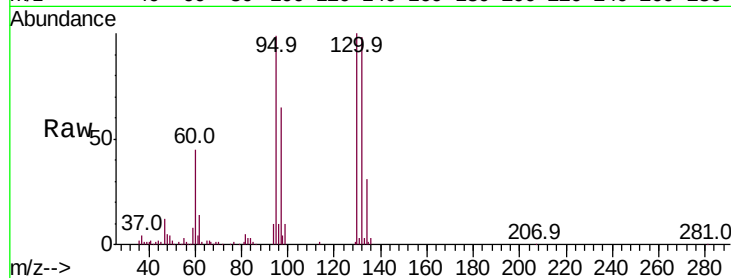
Ion Ratio Lower Upper

95 100

97 65.9 46.6 86.6

132 99.7 68.7 127.7

130 101.3 73.9 137.3

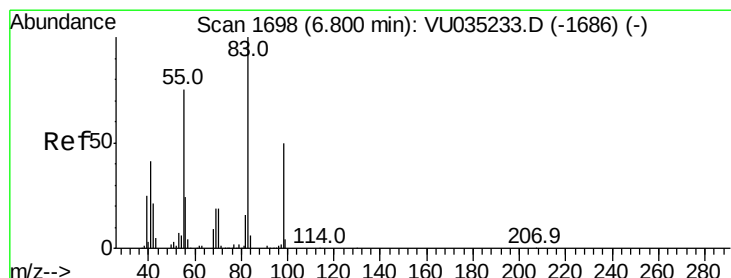
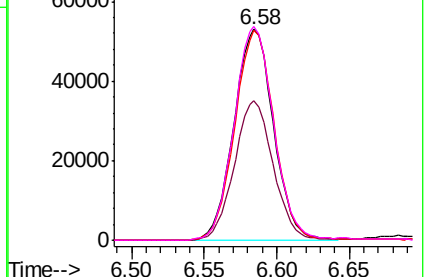
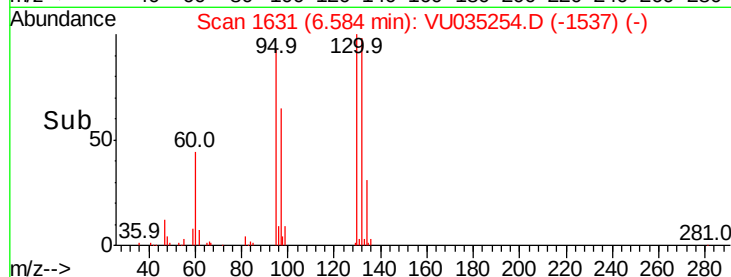


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.750 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

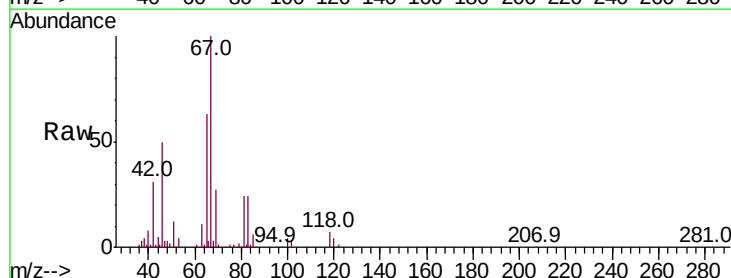
Tgt Ion: 83 Resp: 31394

Ion Ratio Lower Upper

83 100

55 0.7 60.4 90.6#

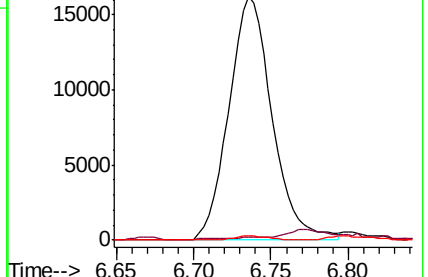
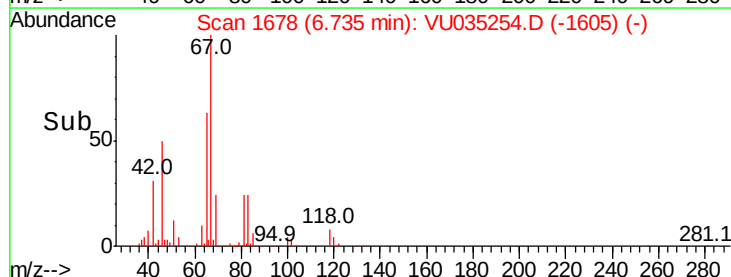
98 1.4 39.5 59.3#

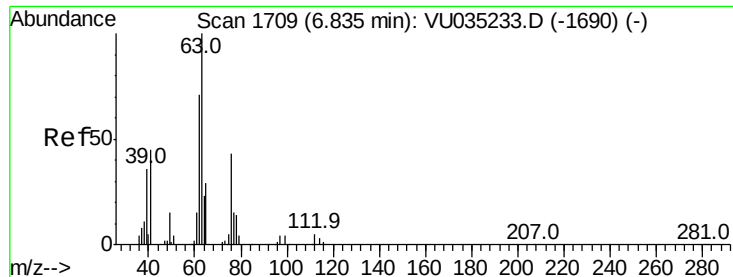


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

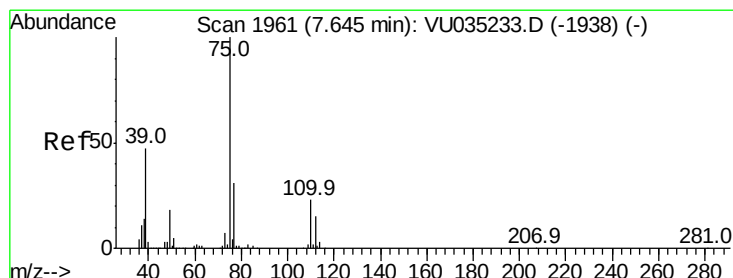
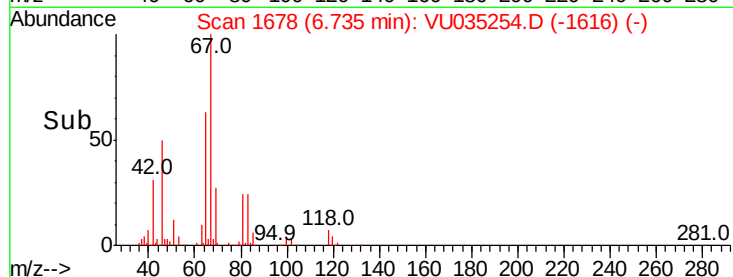
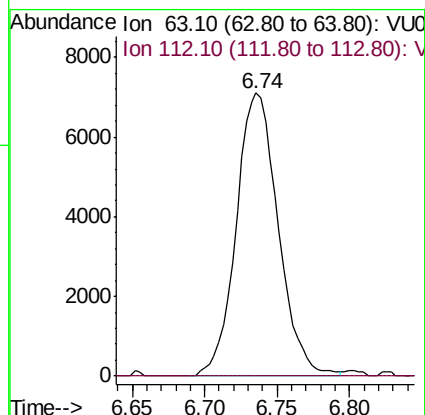
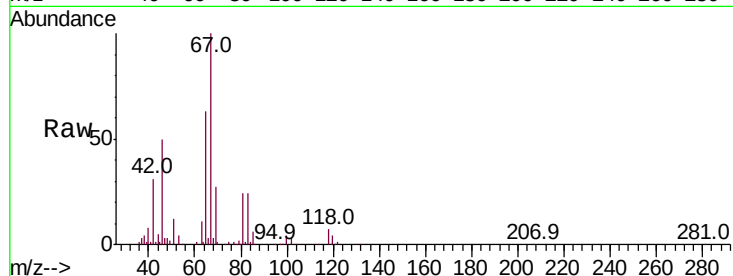




#37
 1,2-Dichloropropane
 Concen: 0.603 ug/L
 RT: 6.74 min Scan# 1678
 Delta R.T. -0.10 min
 Lab File: VU035254.D
 Acq: 18 Oct 2019 09:09

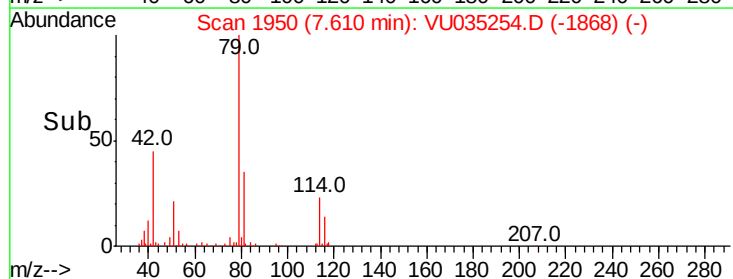
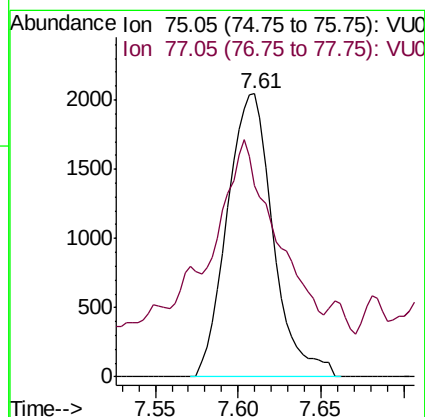
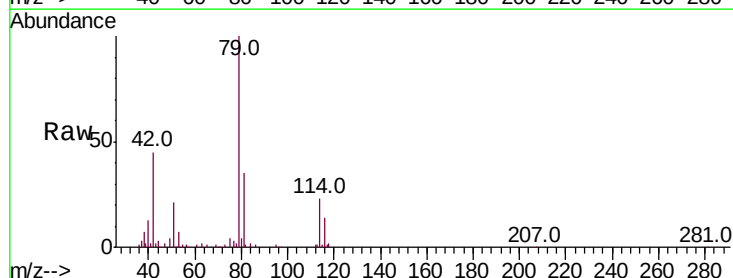
Instrument :
 MSVOA_U
 ClientSampleId :

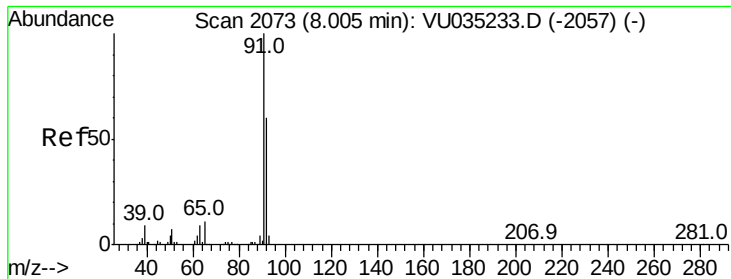
Tot Ion: 63 Resp: 14274
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.7 5.5#



#39
 cis-1,3-Dichloropropene
 Concen: 0.100 ug/L
 RT: 7.61 min Scan# 1950
 Delta R.T. -0.04 min
 Lab File: VU035254.D
 Acq: 18 Oct 2019 09:09

Tgt Ion: 75 Resp: 3943
 Ion Ratio Lower Upper
 75 100
 77 67.5 22.7 42.1#





#42

Toluene

Concen: 4.180 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

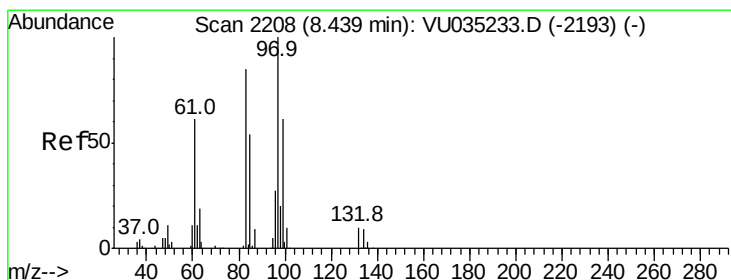
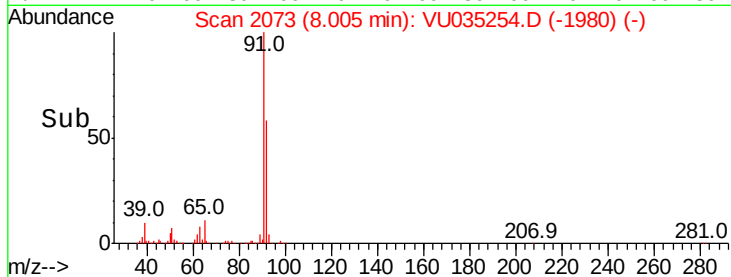
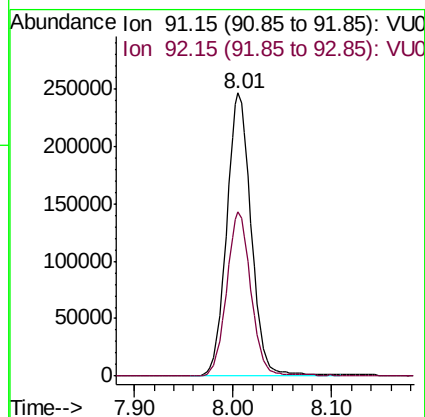
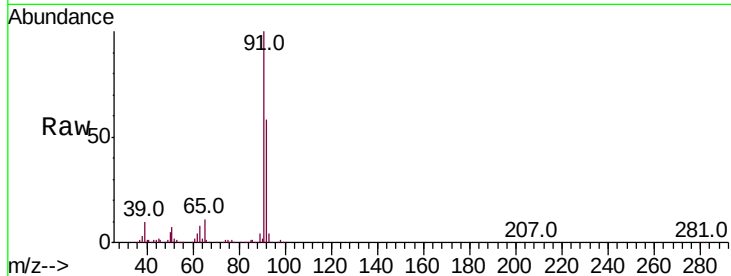
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 430091

Ion Ratio Lower Upper

91 100

92 58.1 39.9 74.1



#45

1,1,2-Trichloroethane

Concen: 0.208 ug/L

RT: 8.40 min Scan# 2196

Delta R.T. -0.04 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Tgt Ion: 97 Resp: 3662

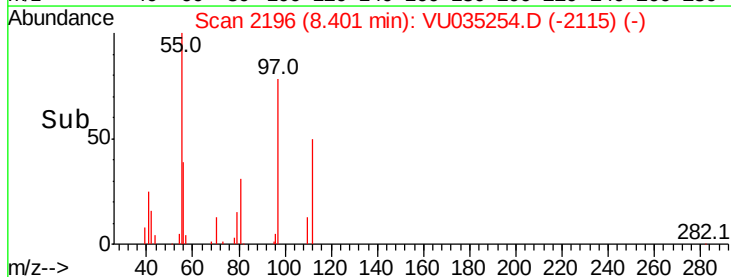
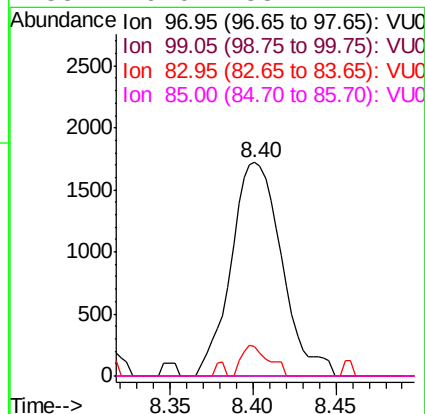
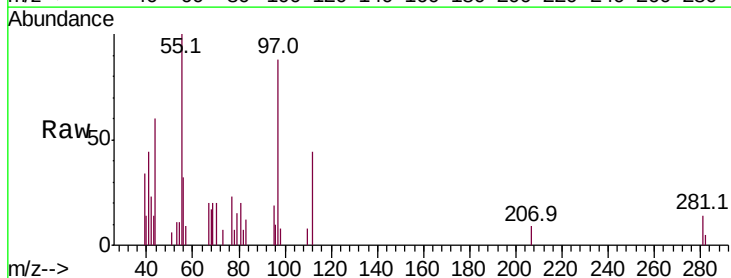
Ion Ratio Lower Upper

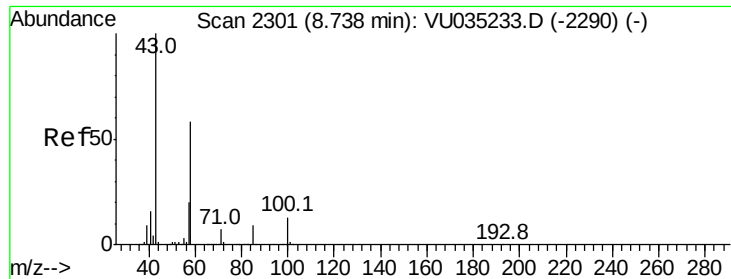
97 100

99 0.0 42.9 79.7#

83 13.5 60.4 112.2#

85 0.0 38.4 71.2#

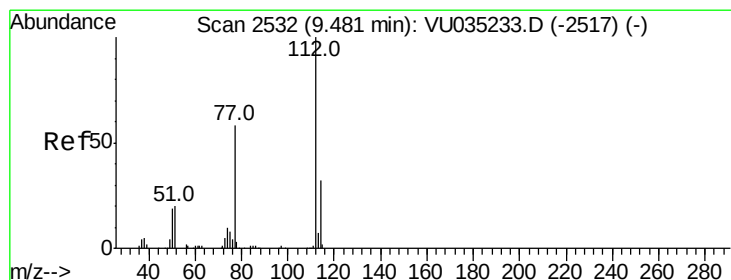
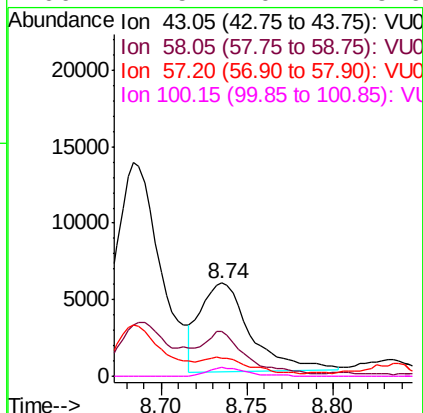
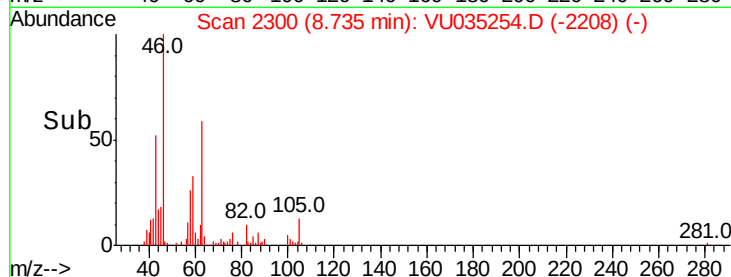
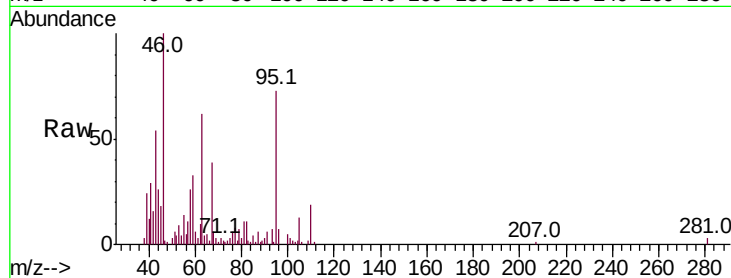




#48
2-Hexanone
Concen: 1.052 ug/L
RT: 8.74 min Scan# 2300
Delta R.T. -0.00 min
Lab File: VU035254.D
Acq: 18 Oct 2019 09:09

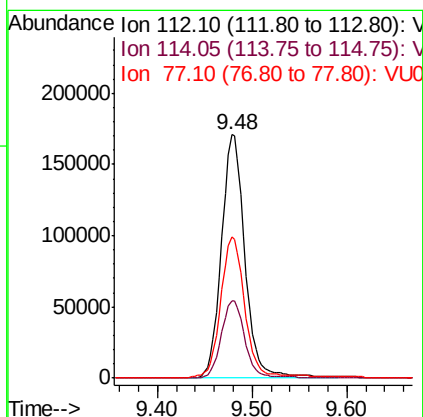
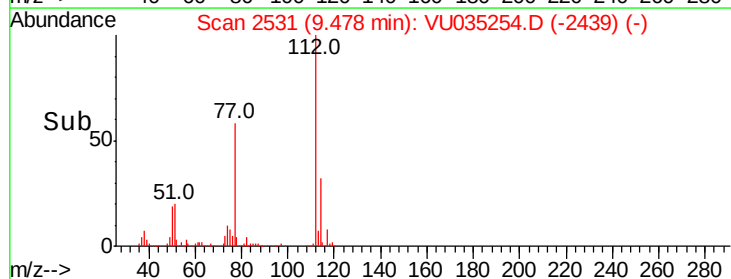
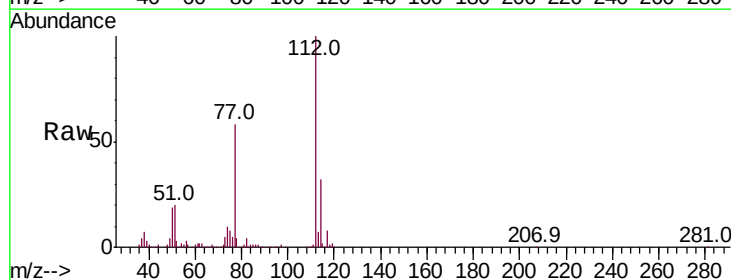
Instrument :
MSVOA_U
ClientSampleId :

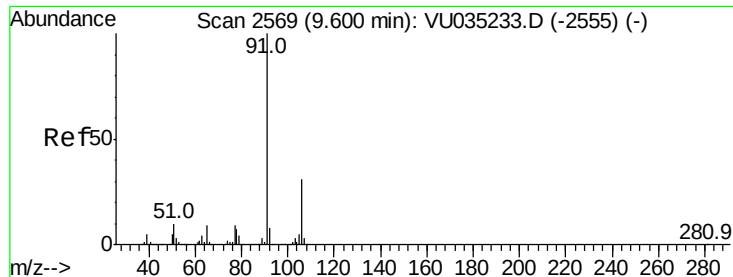
Tot Ion: 43 Resp: 11786
Ion Ratio Lower Upper
43 100
58 44.5 45.1 67.7#
57 17.6 16.0 24.0
100 7.5 10.4 15.6#



#51
Chlorobenzene
Concen: 4.467 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035254.D
Acq: 18 Oct 2019 09:09

Tgt Ion: 112 Resp: 296705
Ion Ratio Lower Upper
112 100
114 31.7 23.0 42.8
77 57.9 47.5 71.3





#52

Ethylbenzene

Concen: 0.126 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Instrument :

MSVOA_U

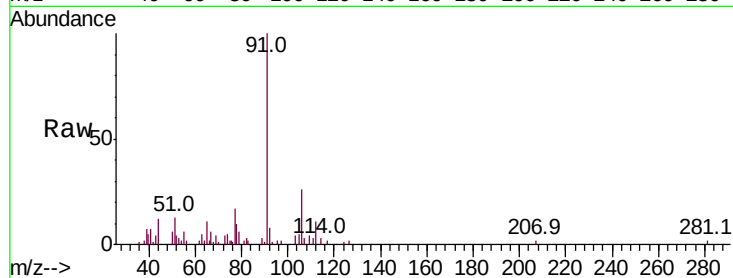
ClientSampleId :

Tot Ion: 91 Resp: 14693

Ion Ratio Lower Upper

91 100

106 26.3 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU035233.D (-2555) (-)

Ion 106.15 (105.85 to 106.85): VU035254.D (-2476) (-)

9.60

8000

6000

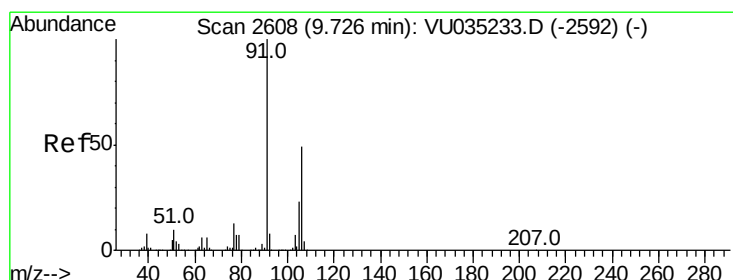
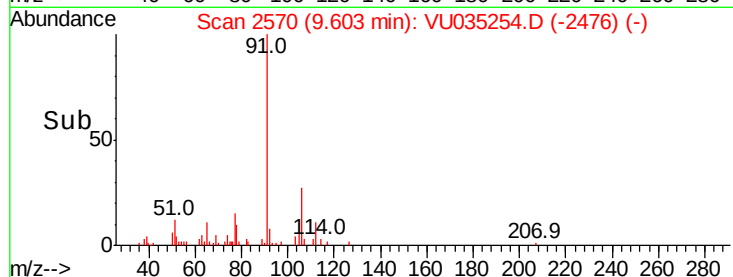
4000

2000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 0.080 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035254.D

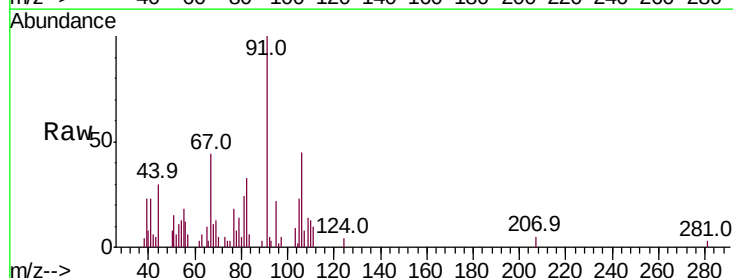
Acq: 18 Oct 2019 09:09

Tgt Ion: 106 Resp: 3539

Ion Ratio Lower Upper

106 100

91 223.8 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035233.D (-2592) (-)

Ion 91.15 (90.85 to 91.85): VU035254.D (-2515) (-)

9.73

5000

4000

3000

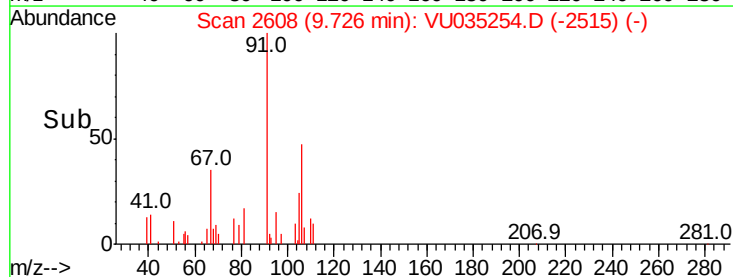
2000

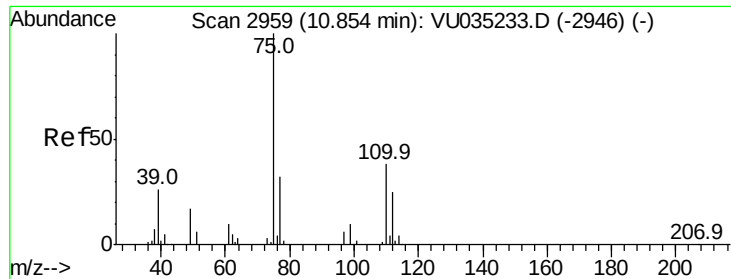
1000

0

9.65 9.70 9.75

Time-->





#59

1,2,3-Trichloropropane

Concen: 1.019 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Instrument :

MSVOA_U

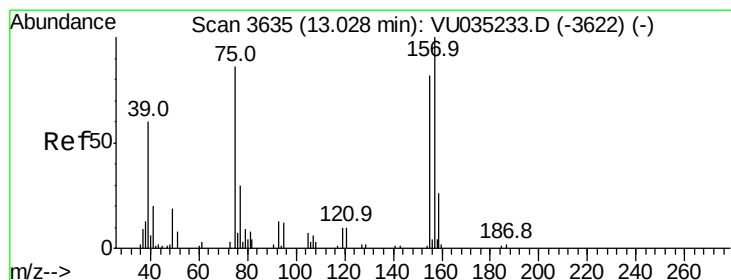
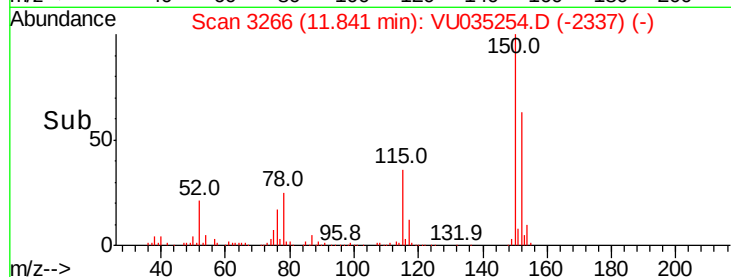
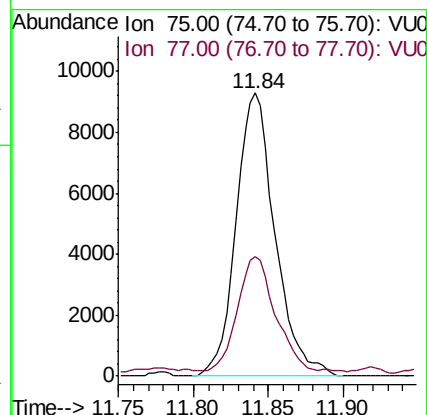
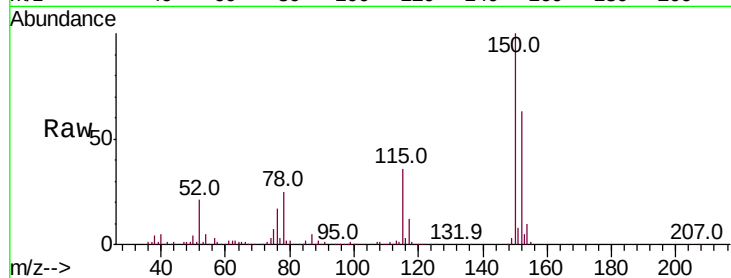
ClientSampled :

Tot Ion: 75 Resp: 16794

Ion Ratio Lower Upper

75 100

77 38.8 26.2 39.2



#66

1,2-Dibromo-3-chloropropane

Concen: 0.352 ug/L

RT: 13.14 min Scan# 3670

Delta R.T. 0.11 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

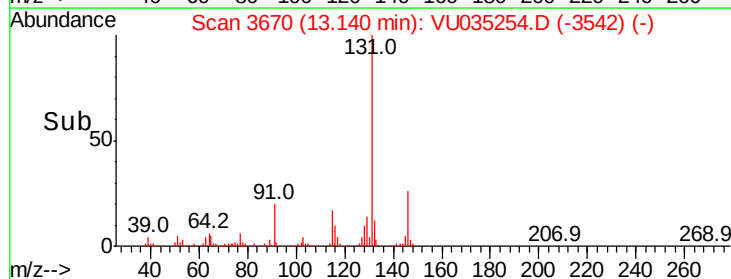
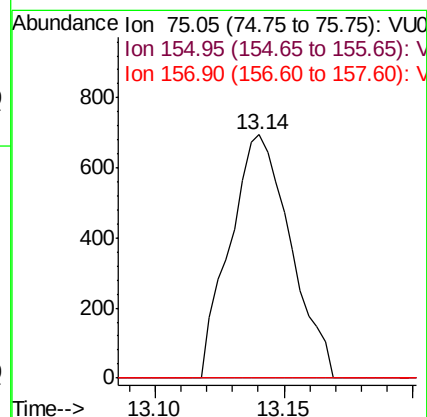
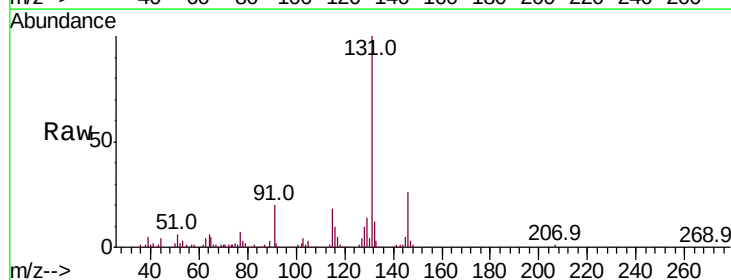
Tgt Ion: 75 Resp: 1133

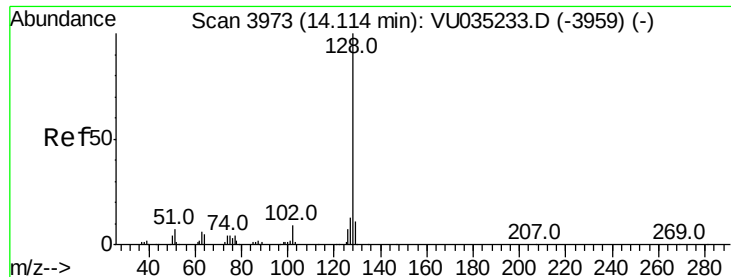
Ion Ratio Lower Upper

75 100

155 0.0 70.0 105.0#

157 0.0 94.7 142.1#





#69

Naphthalene

Concen: 0.206 ug/L

RT: 14.14 min Scan# 3982

Delta R.T. 0.03 min

Lab File: VU035254.D

Acq: 18 Oct 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 5674

Ion Ratio Lower Upper

128 100

129 0.0 8.6 13.0#

127 8.0 10.7 16.1#

