

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
 Data File : VU035249.D
 Acq On : 18 Oct 2019 07:14
 Operator : JC/SP
 Sample : K5419-18
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FZ7

Quant Time: Nov 01 23:56:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 07:32:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	353017	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	341856	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	177487	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	155935	7.24	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	144.80%#
7) Chloroethane-d5	1.93	69	101949	5.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.60%
11) 1,1-Dichloroethene-d2	2.59	63	153013	3.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.80%
20) 2-Butanone-d5	4.72	46	295117	47.71	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.42%
24) Chloroform-d	5.11	84	201432	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
26) 1,2-Dichloroethane-d4	5.75	65	115263	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
32) Benzene-d6	5.77	84	412541	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
36) 1,2-Dichloropropane-d6	6.74	67	130547	5.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.20%
41) Toluene-d8	7.93	98	395549	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
43) trans-1,3-Dichloropropene-	8.22	79	54730	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.68	63	272255	51.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.50%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	111915	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	162868	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	5540360	181.009 ug/L	99
8) Chloroethane	1.95	64	65871	3.338 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	37584	1.596 ug/L	97
13) Acetone	2.70	43	135075	31.392 ug/L	79
14) Carbon disulfide	2.82	76	18222	0.254 ug/L #	93
16) Methylene chloride	3.08	84	4256	0.156 ug/L	82
18) trans-1,2-Dichloroethene	3.39	96	404952	16.545 ug/L	95
19) 1,1-Dichloroethane	3.92	63	783584	17.703 ug/L	99
21) 2-Butanone	4.80	43	209705	29.902 ug/L	96
22) cis-1,2-Dichloroethene	4.72	96	1248233	46.141 ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	27599	0.689 ug/L	98
30) Cyclohexane	5.43	56	189424	4.417 ug/L	99
33) Benzene	5.82	78	511187	5.082 ug/L	100
34) Trichloroethene	6.58	95	68123	2.519 ug/L	98
35) Methylcyclohexane	6.80	83	183135	4.052 ug/L	93
42) Toluene	8.01	91	11949551	107.620 ug/L	96
47) Tetrachloroethene	8.58	164	8536	0.379 ug/L	95

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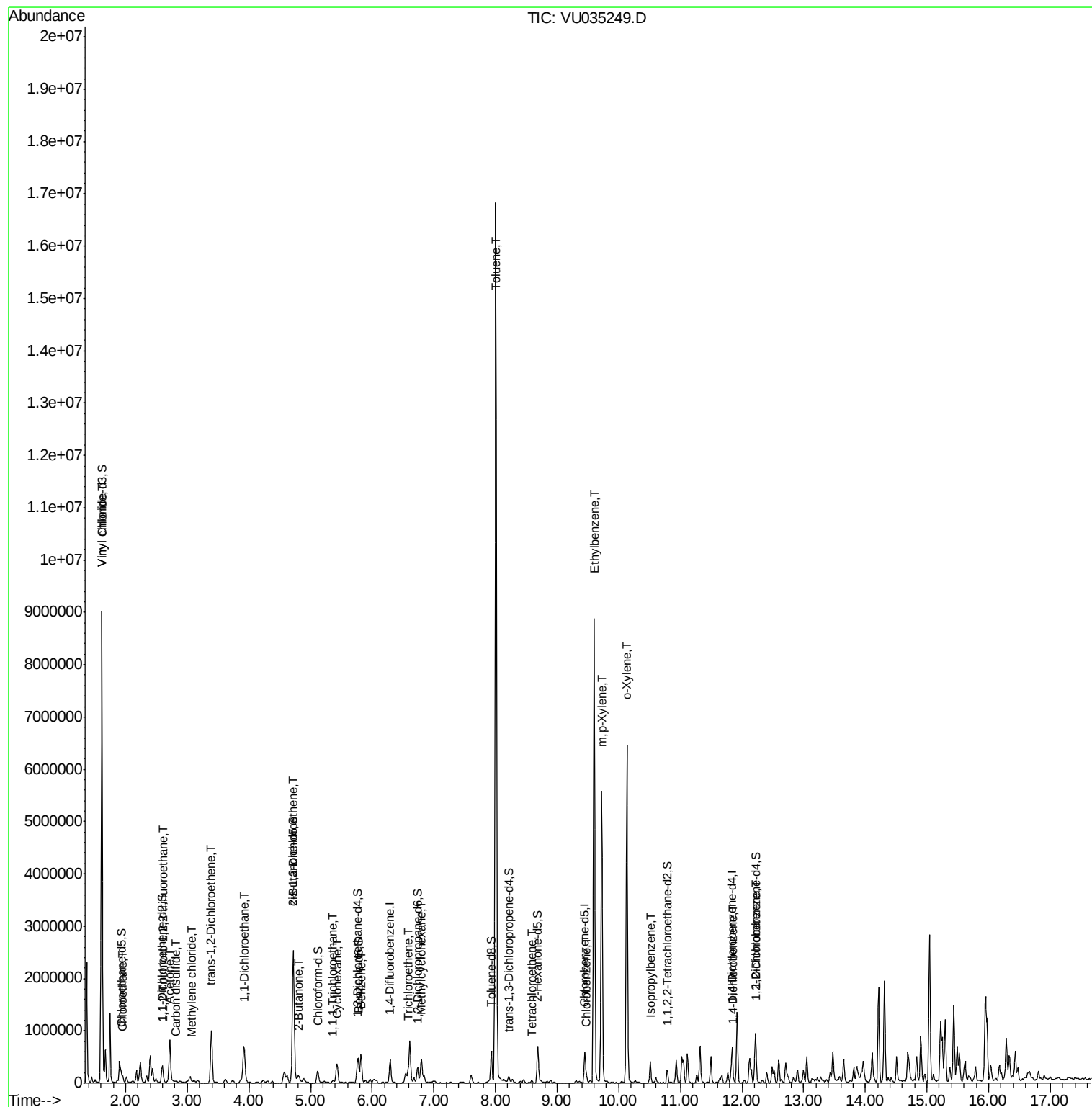
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.48	112	63415	0.885	ug/L	98
52) Ethylbenzene	9.60	91	6325854	50.102	ug/L	100
53) m,p-Xylene	9.73	106	1609453	33.758	ug/L	98
54) o-Xylene	10.13	106	1696241	36.452	ug/L	98
56) Isopropylbenzene	10.51	105	256583	2.050	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	6669	0.112	ug/L	87
65) 1,2-Dichlorobenzene	12.24	146	5677	0.100	ug/L #	78

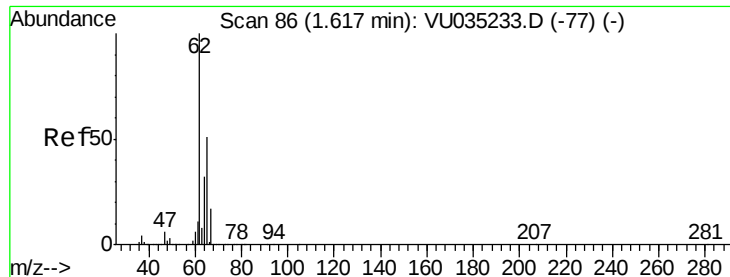
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 181.009 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Instrument :

MSVOA_U

ClientSampleId :

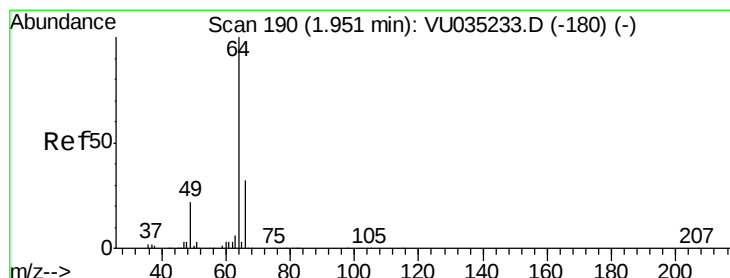
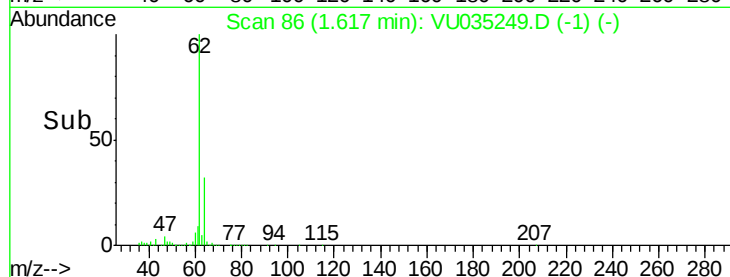
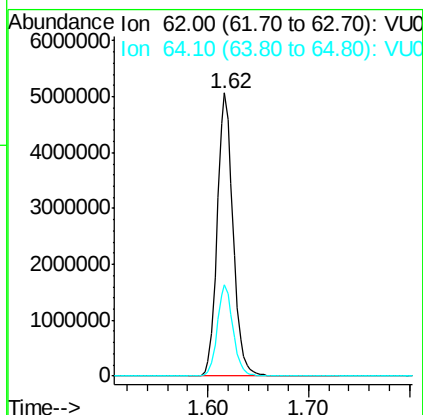
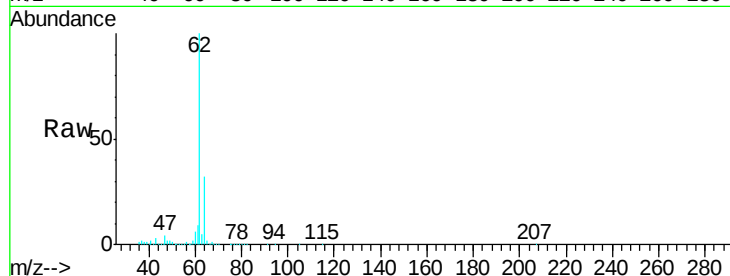
H0FZ7

Tgt Ion: 62 Resp: 5540360

Ion Ratio Lower Upper

62 100

64 32.2 22.9 42.5



#8

Chloroethane

Concen: 3.338 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035249.D

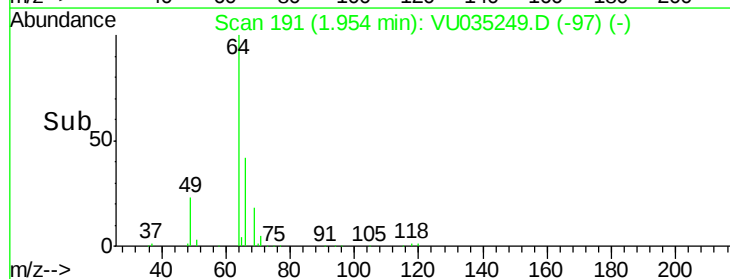
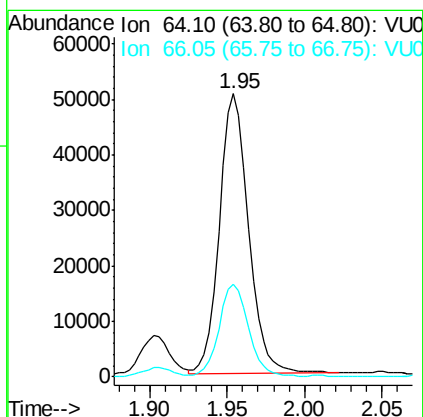
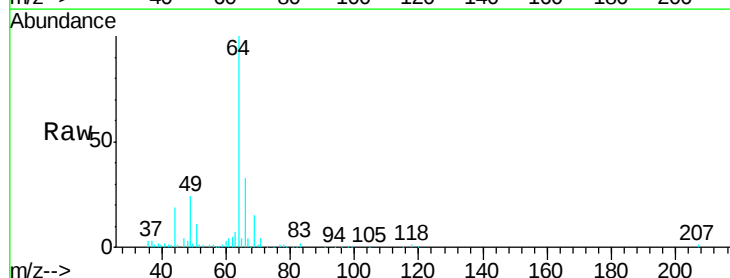
Acq: 18 Oct 2019 07:14

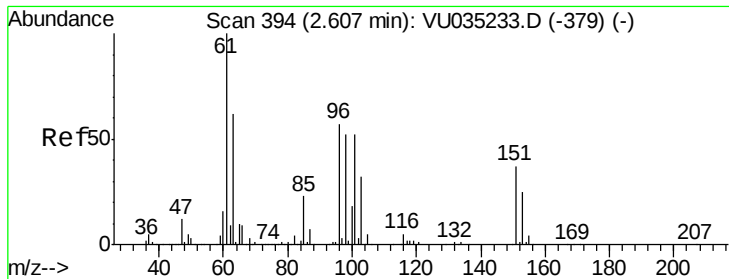
Tgt Ion: 64 Resp: 65871

Ion Ratio Lower Upper

64 100

66 32.9 22.7 42.1





#10

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

Concen: 1.596 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Instrument :

MSVOA_U

ClientSampleId :

H0FZ7

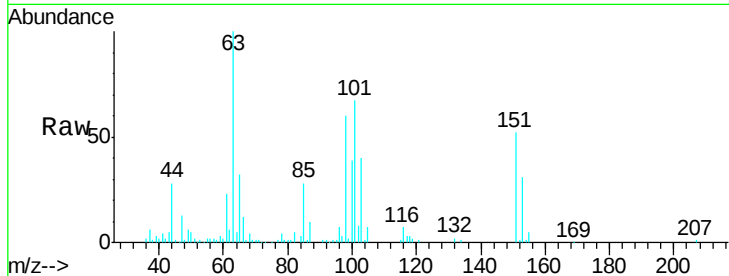
Tgt Ion:101 Resp: 37584

Ion Ratio Lower Upper

101 100

85 42.7 33.9 50.9

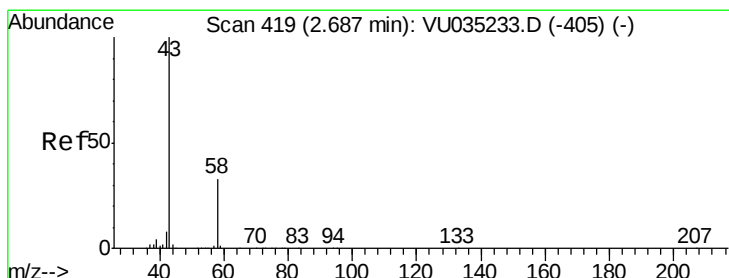
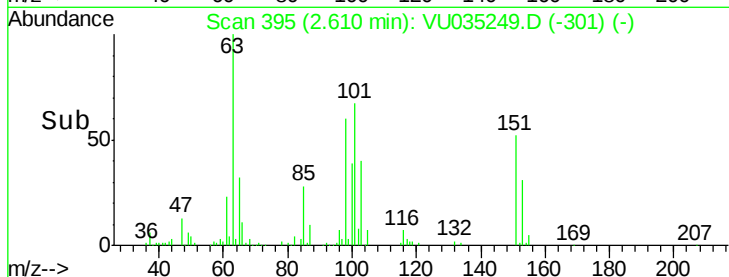
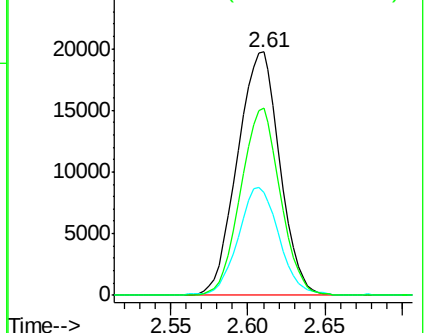
151 72.1 61.0 91.4



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



#13

Acetone

Concen: 31.392 ug/L

RT: 2.70 min Scan# 423

Delta R.T. 0.01 min

Lab File: VU035249.D

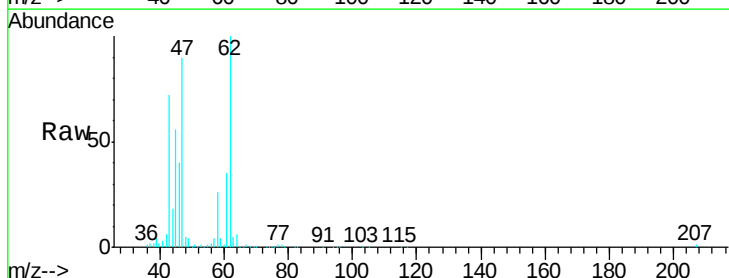
Acq: 18 Oct 2019 07:14

Tgt Ion: 43 Resp: 135075

Ion Ratio Lower Upper

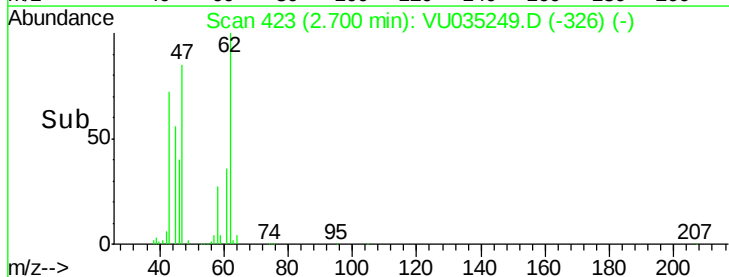
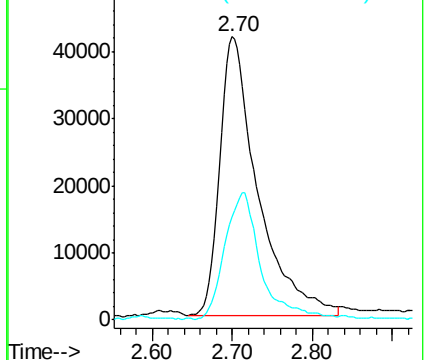
43 100

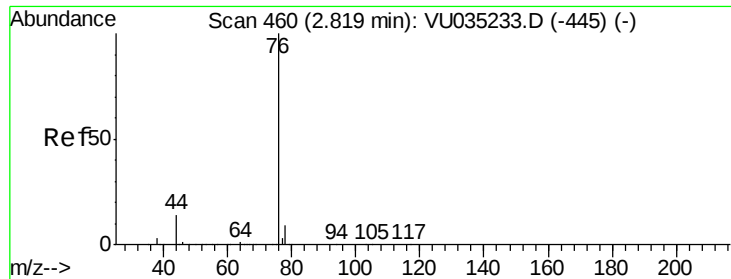
58 42.2 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.254 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Instrument :

MSVOA_U

ClientSampleId :

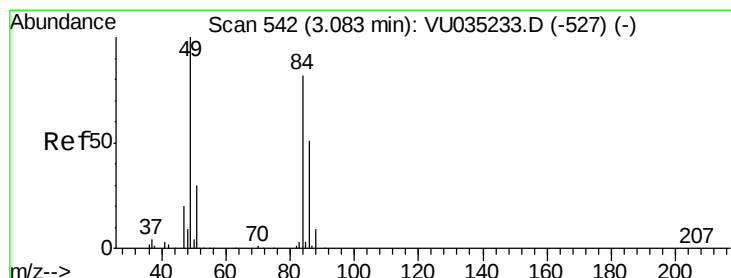
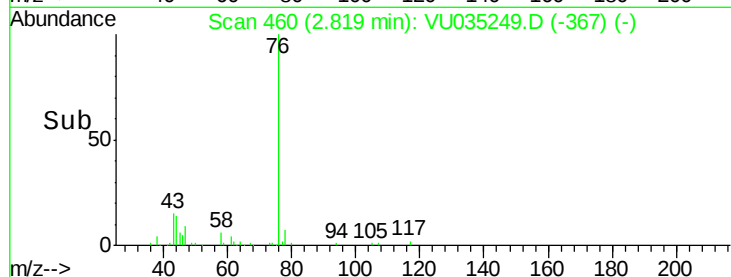
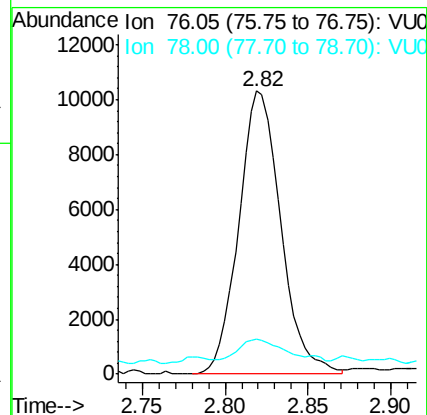
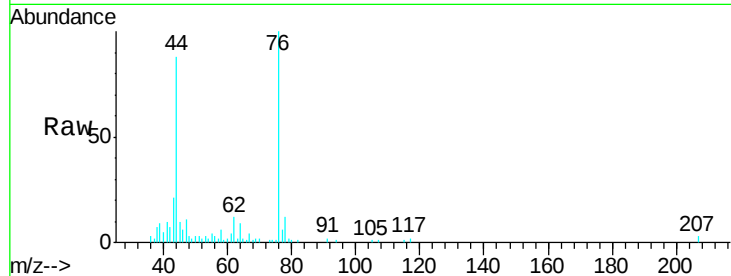
H0FZ7

Tgt Ion: 76 Resp: 18222

Ion Ratio Lower Upper

76 100

78 12.2 7.6 11.4#



#16

Methylene chloride

Concen: 0.156 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

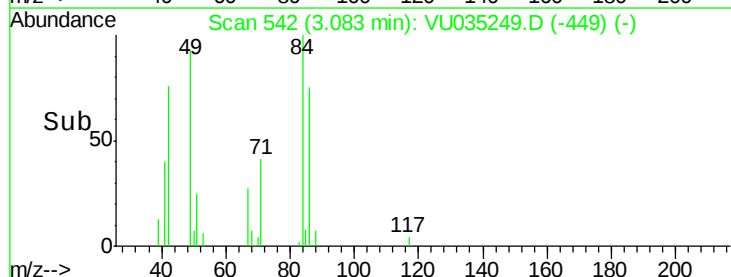
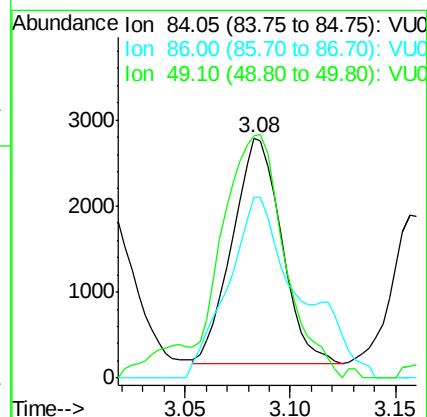
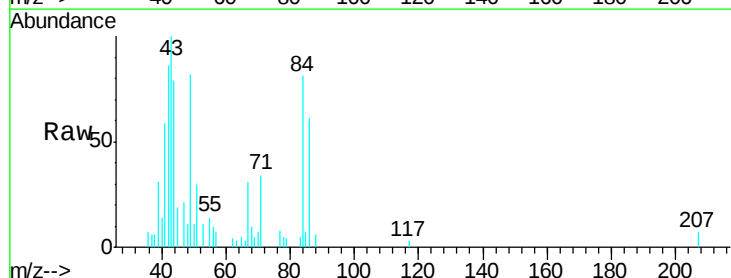
Tgt Ion: 84 Resp: 4256

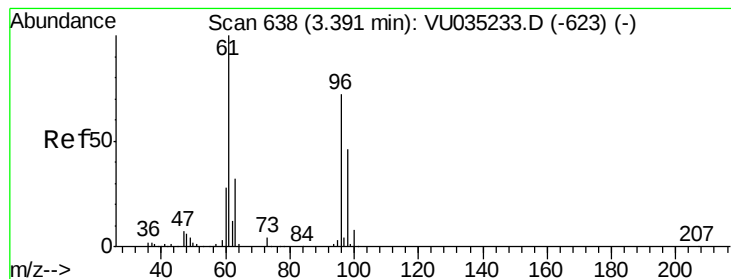
Ion Ratio Lower Upper

84 100

86 75.3 45.4 84.2

49 100.7 86.8 161.2





#18

trans-1,2-Dichloroethene

Concen: 16.545 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Instrument :

MSVOA_U

ClientSampleId :

H0FZ7

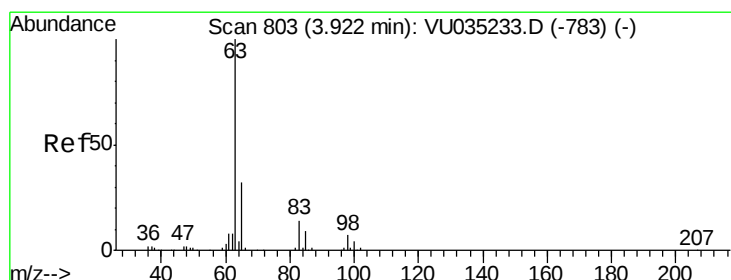
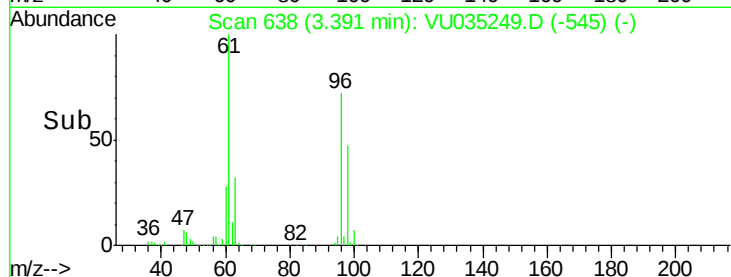
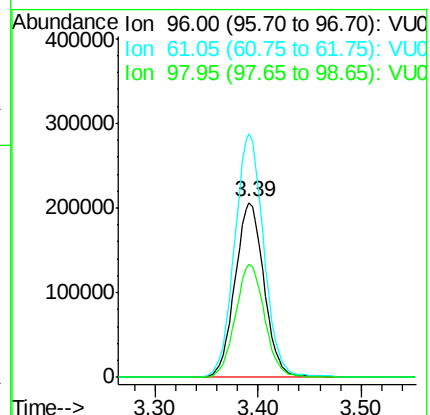
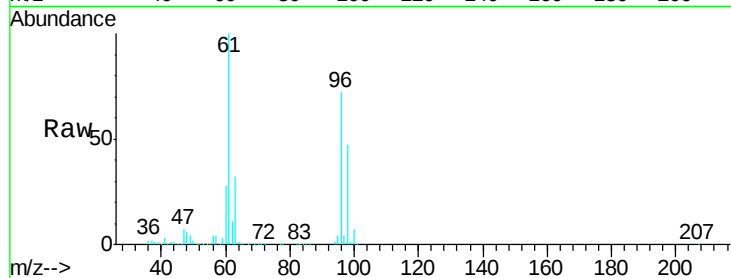
Tgt Ion: 96 Resp: 404952

Ion Ratio Lower Upper

96 100

61 139.3 93.0 172.6

98 65.0 43.7 81.1



#19

1,1-Dichloroethane

Concen: 17.703 ug/L

RT: 3.92 min Scan# 803

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

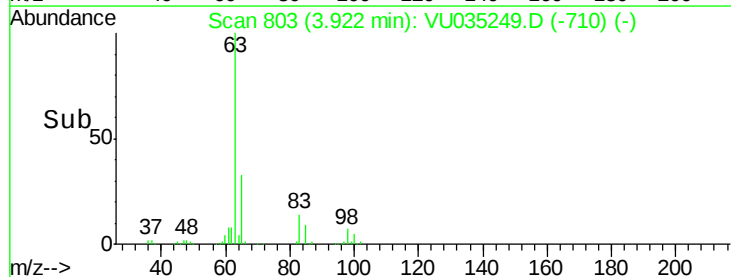
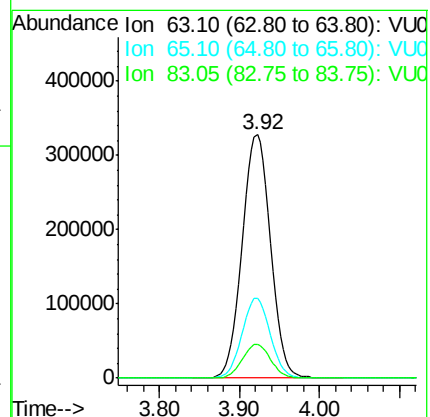
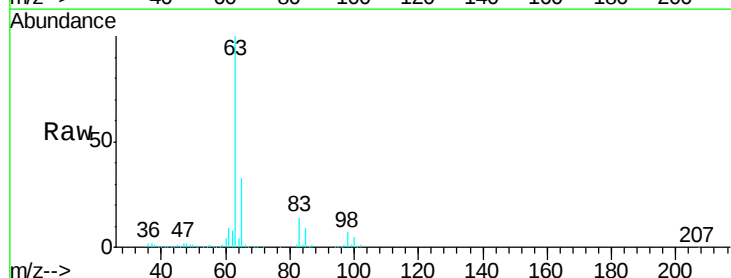
Tgt Ion: 63 Resp: 783584

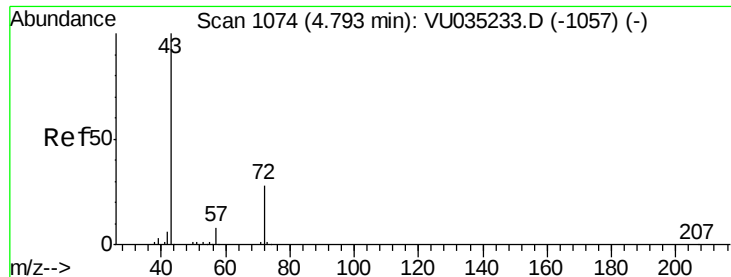
Ion Ratio Lower Upper

63 100

65 32.7 22.4 41.6

83 13.6 9.3 17.3

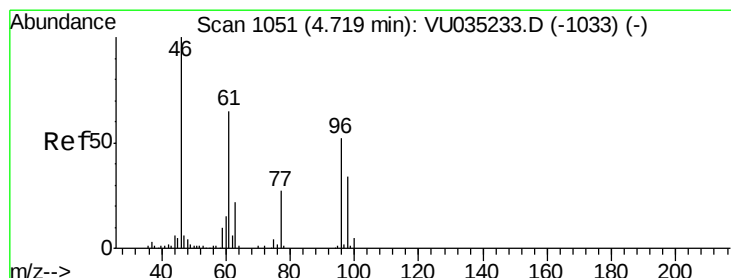
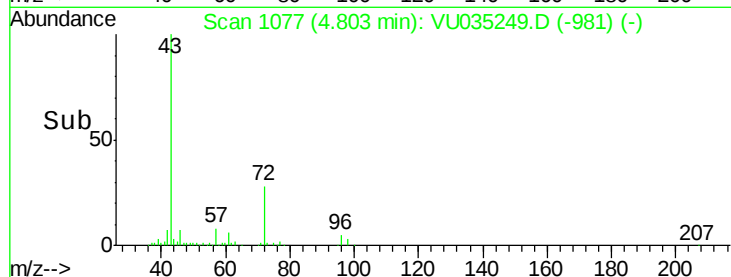
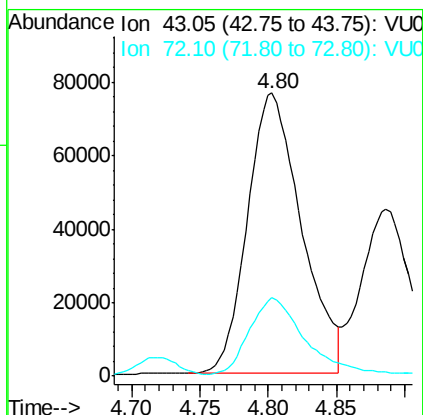
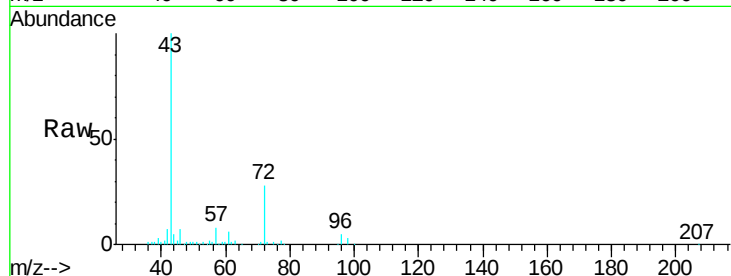




#21
2-Butanone
Concen: 29.902 ug/L
RT: 4.80 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

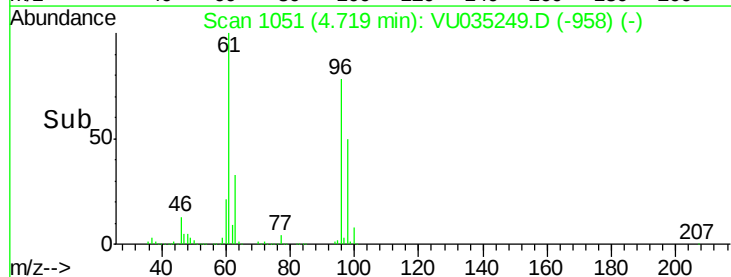
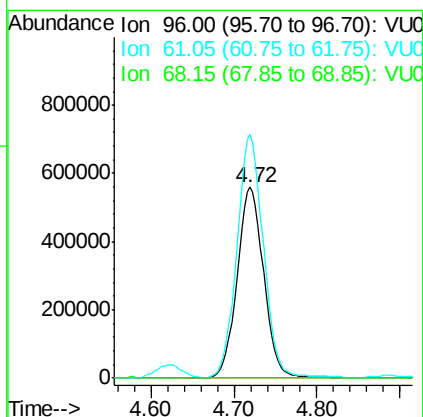
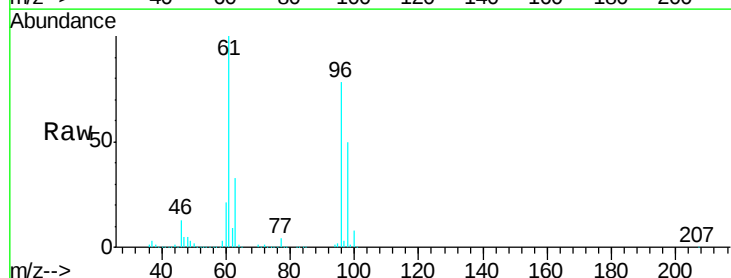
Instrument :
MSVOA_U
ClientSampled :
H0FZ7

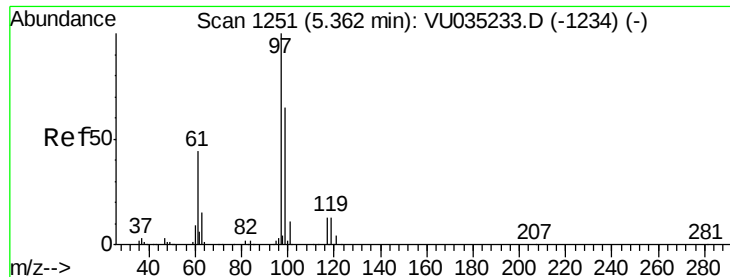
Tgt Ion: 43 Resp: 209705
Ion Ratio Lower Upper
43 100
72 29.1 13.6 40.8



#22
cis-1,2-Dichloroethene
Concen: 46.141 ug/L
RT: 4.72 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

Tgt Ion: 96 Resp: 1248233
Ion Ratio Lower Upper
96 100
61 127.6 89.7 166.5
68 0.0 0.0 0.0

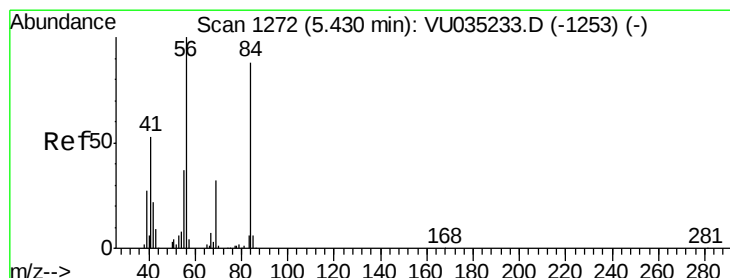
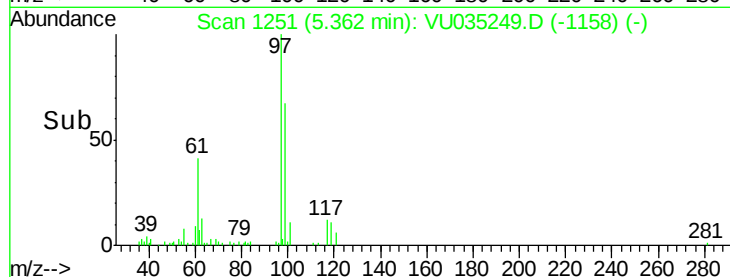
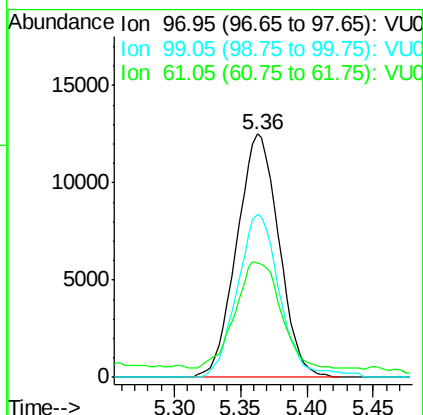
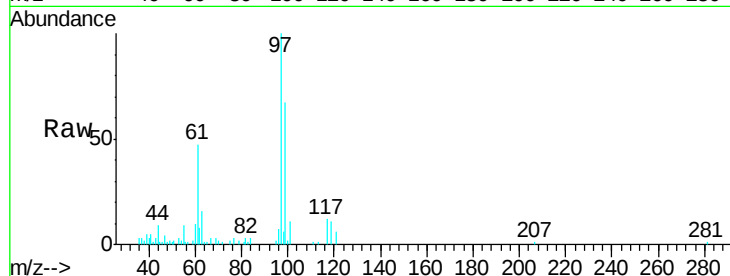




#29
 1,1,1-Trichloroethane
 Concen: 0.689 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU035249.D
 Acq: 18 Oct 2019 07:14

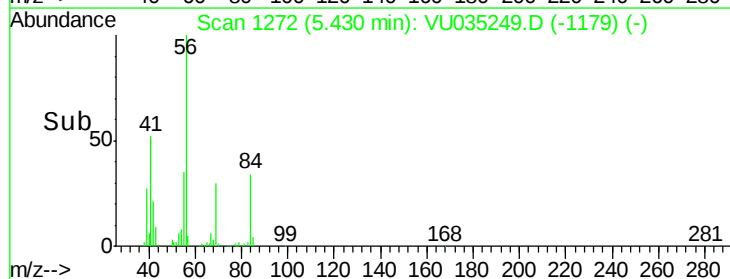
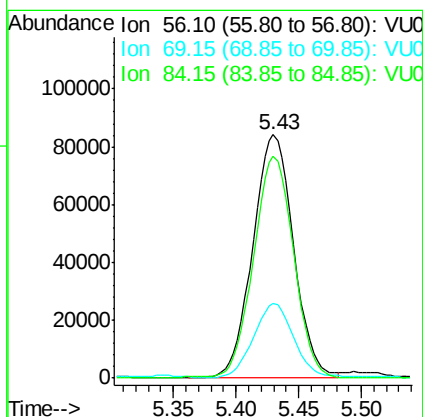
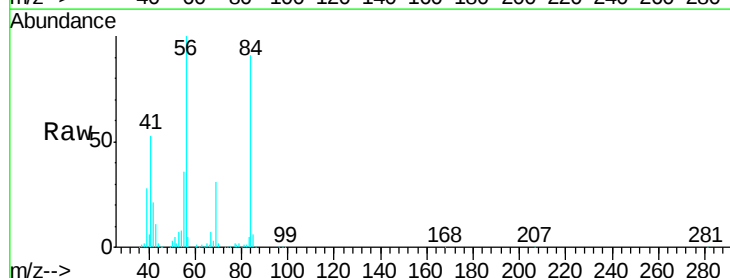
Instrument :
 MSVOA_U
 ClientSampleId :
 H0FZ7

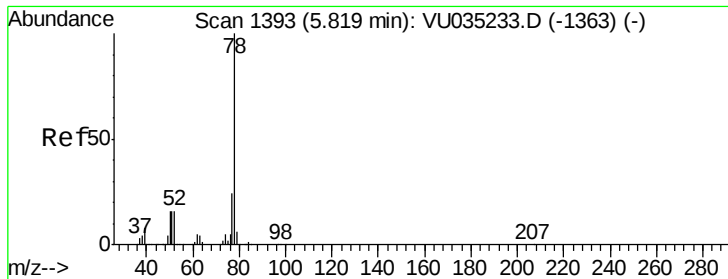
Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.0	52.6	79.0
61	47.2	37.0	55.4



#30
 Cyclohexane
 Concen: 4.417 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU035249.D
 Acq: 18 Oct 2019 07:14

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.6	36.8
84	90.7	71.5	107.3





#33

Benzene

Concen: 5.082 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

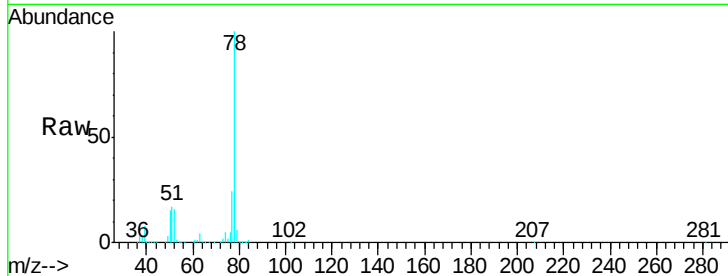
Instrument :

MSVOA_U

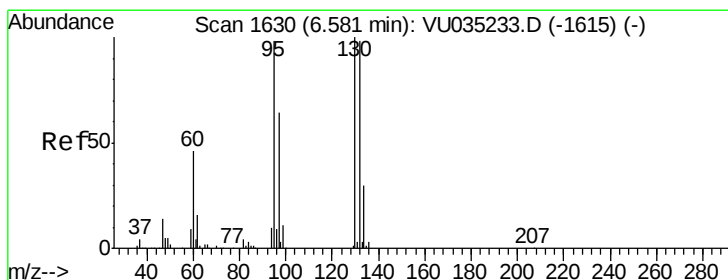
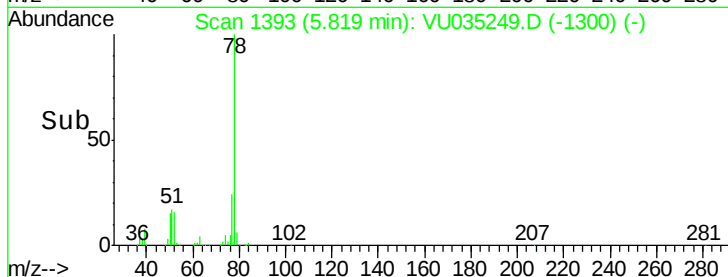
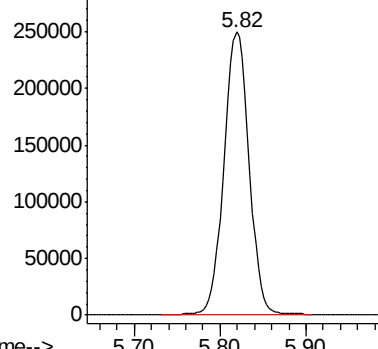
ClientSampleId :

H0FZ7

Tgt Ion: 78 Resp: 511187



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 2.519 ug/L

RT: 6.58 min Scan# 1630

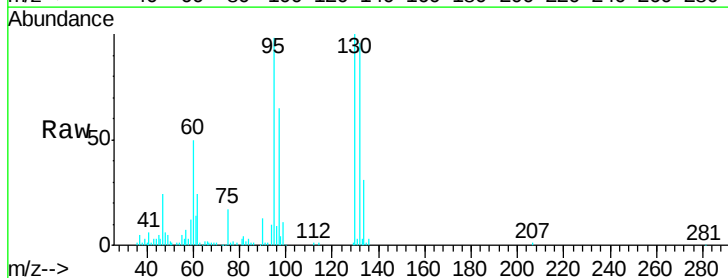
Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Tgt Ion: 95 Resp: 68123

Ion	Ratio	Lower	Upper
95	100		
97	66.4	46.6	86.6
132	97.8	68.7	127.7
130	101.7	73.9	137.3

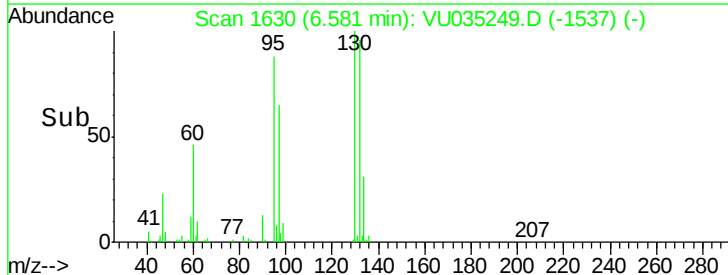
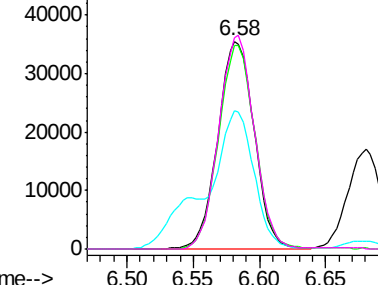


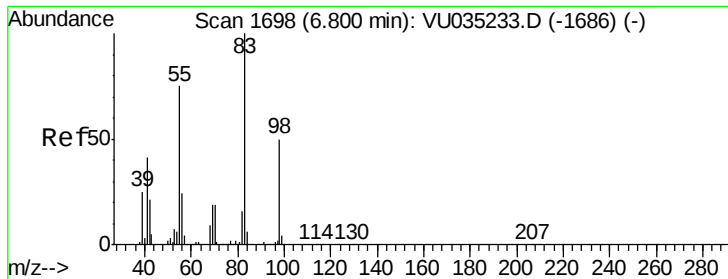
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

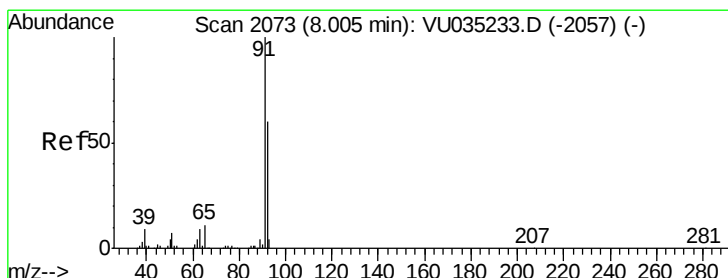
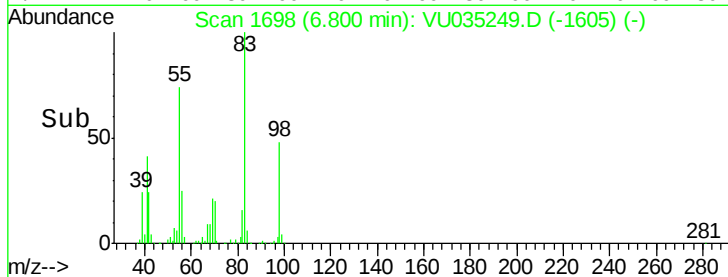
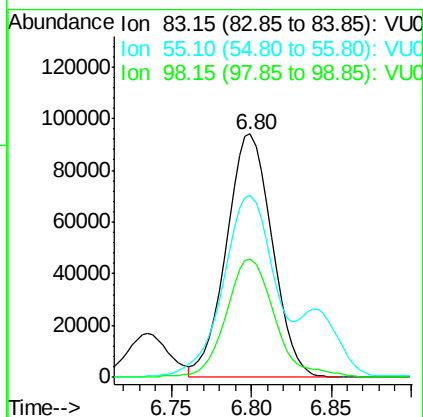
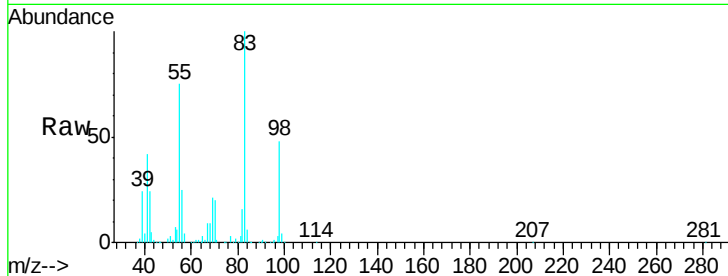




#35
Methylcyclohexane
Concen: 4.052 ug/L
RT: 6.80 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

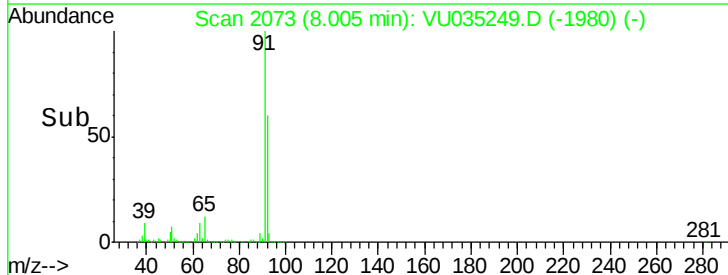
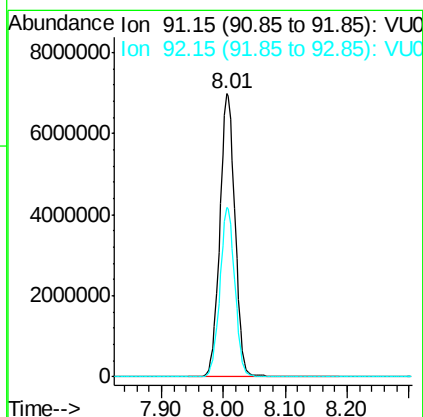
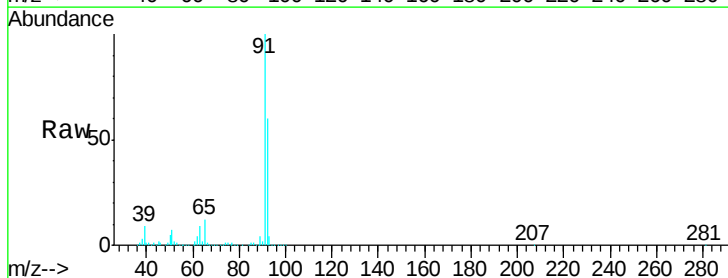
Instrument :
MSVOA_U
ClientSampleId :
H0FZ7

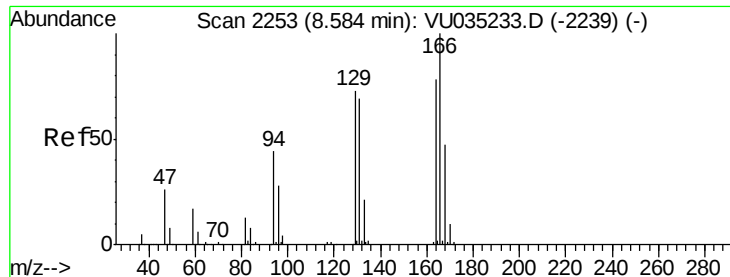
Tgt Ion: 83 Resp: 183135
Ion Ratio Lower Upper
83 100
55 83.3 60.4 90.6
98 52.2 39.5 59.3



#42
Toluene
Concen: 107.620 ug/L
RT: 8.01 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

Tgt Ion: 91 Resp: 11949551
Ion Ratio Lower Upper
91 100
92 59.7 39.9 74.1

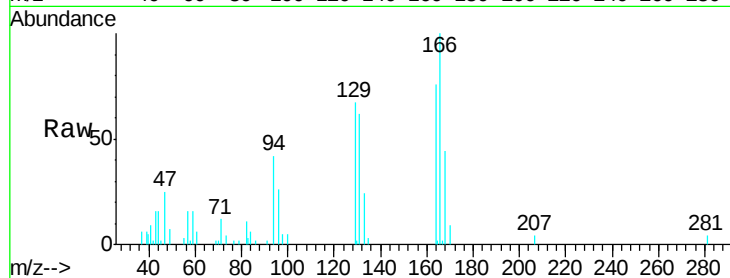




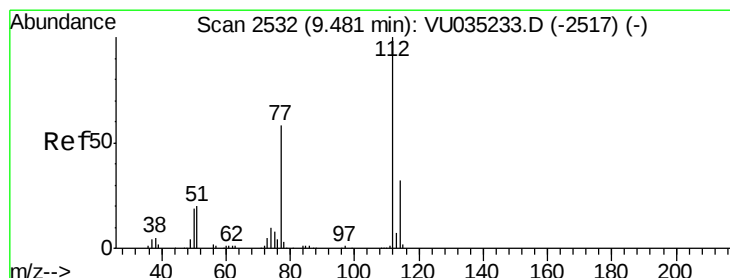
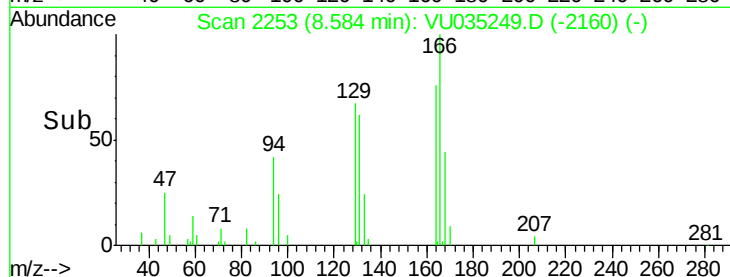
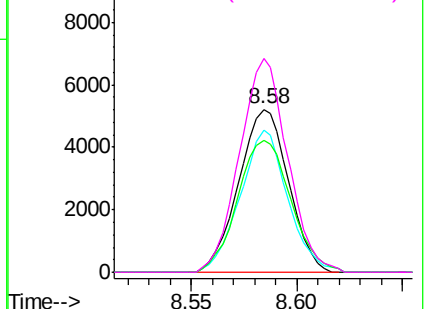
#47
Tetrachloroethene
Concen: 0.379 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

Instrument :
MSVOA_U
ClientSampleId :
H0FZ7

Tgt Ion:164 Resp: 8536
Ion Ratio Lower Upper
164 100
129 87.6 65.2 121.0
131 80.7 62.9 116.9
166 131.1 91.5 169.9

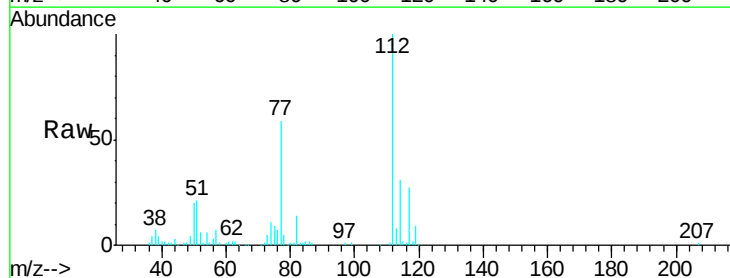


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

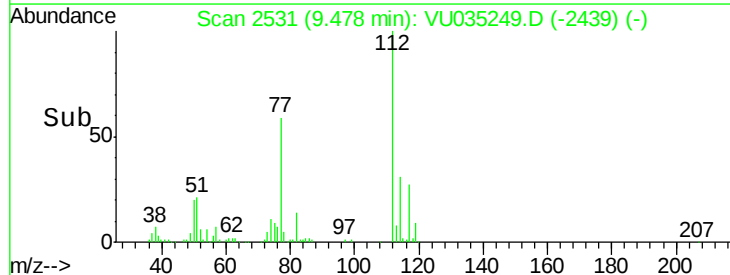
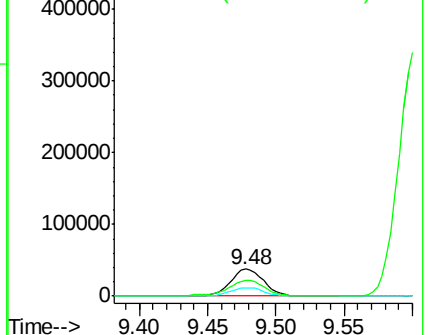


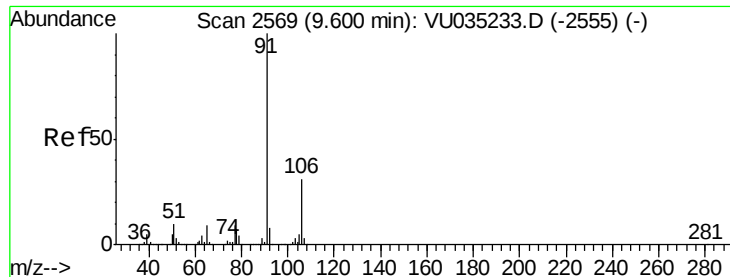
#51
Chlorobenzene
Concen: 0.885 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

Tgt Ion:112 Resp: 63415
Ion Ratio Lower Upper
112 100
114 30.9 23.0 42.8
77 58.7 47.5 71.3



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 50.102 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Instrument :

MSVOA_U

ClientSampleId :

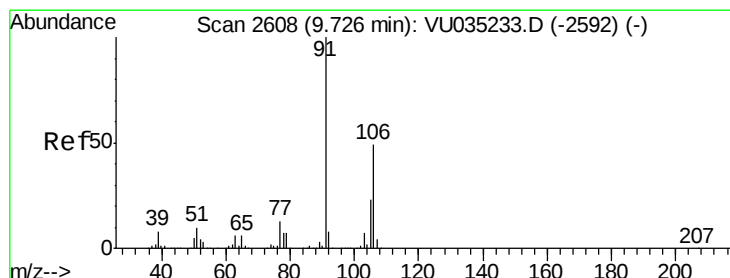
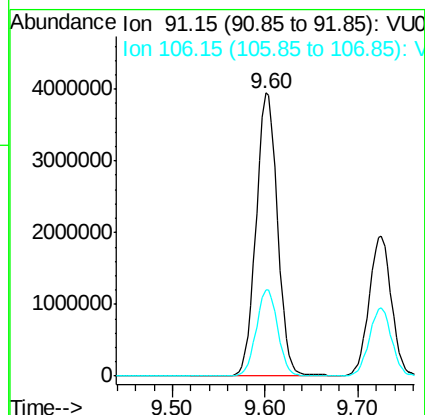
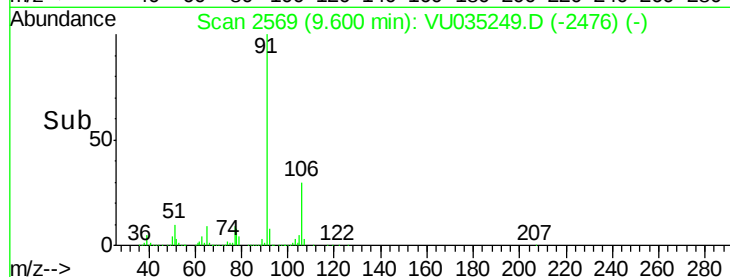
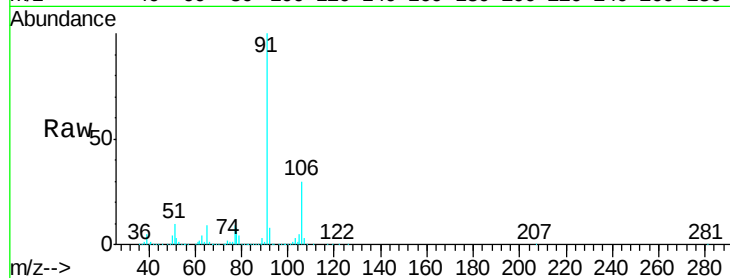
H0FZ7

Tgt Ion: 91 Resp: 6325854

Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.6



#53

m,p-Xylene

Concen: 33.758 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VU035249.D

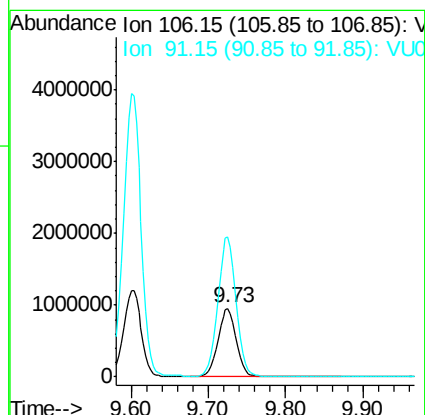
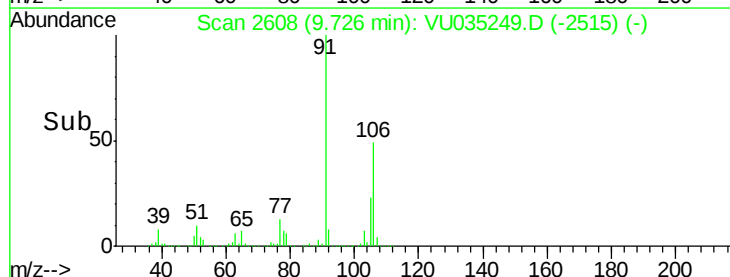
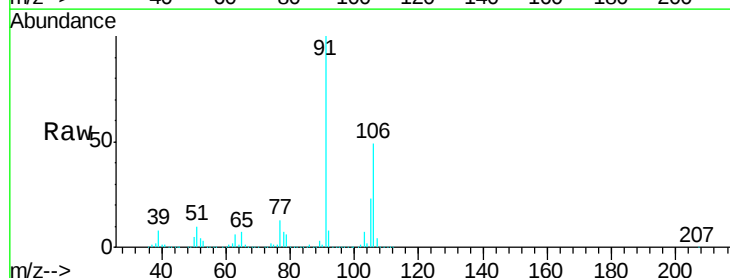
Acq: 18 Oct 2019 07:14

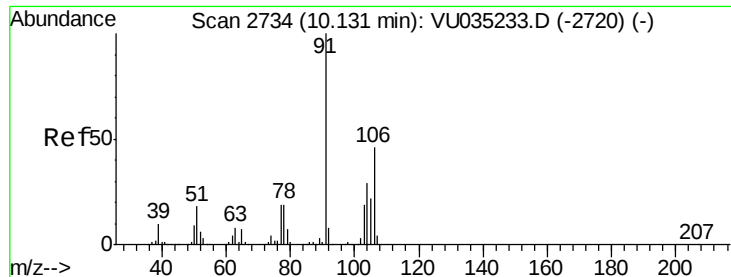
Tgt Ion: 106 Resp: 1609453

Ion Ratio Lower Upper

106 100

91 205.2 142.0 263.6

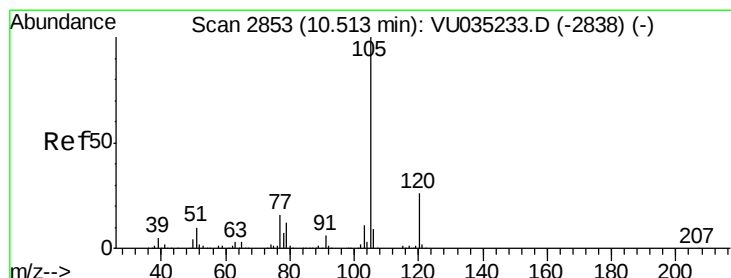
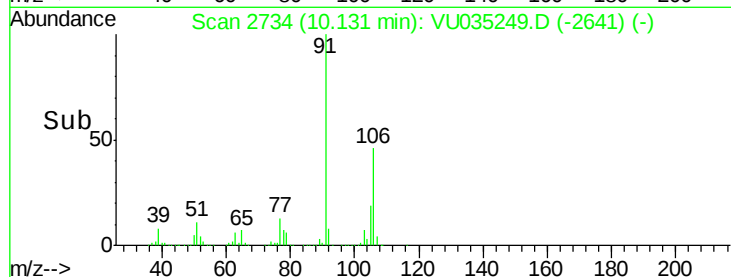
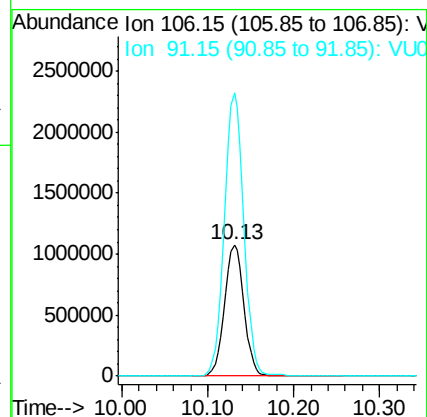
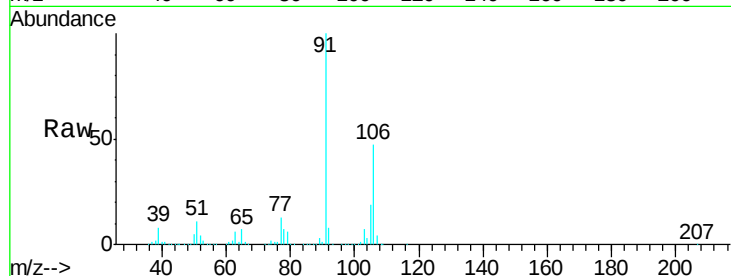




#54
o-Xylene
Concen: 36.452 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

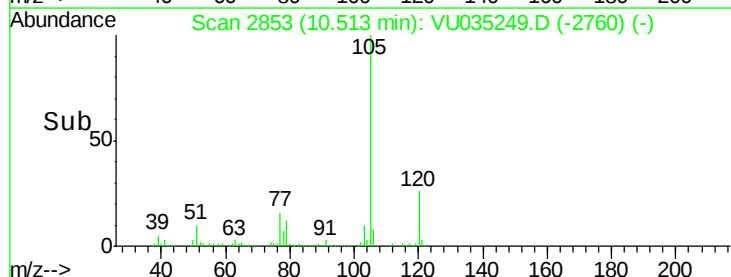
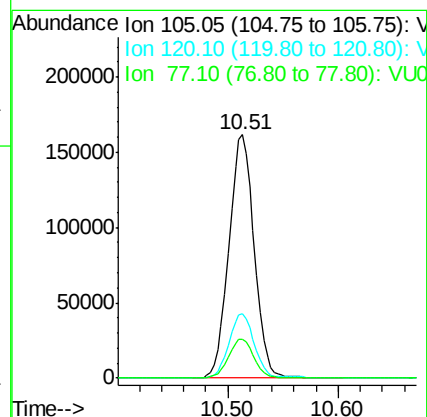
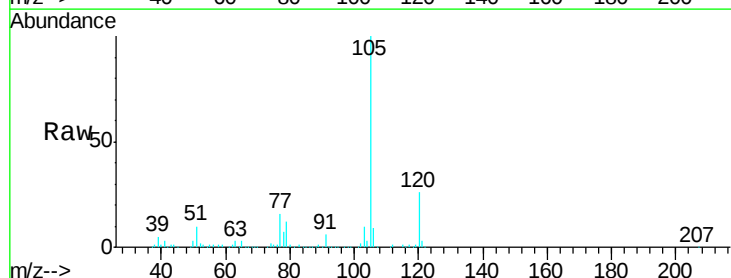
Instrument :
MSVOA_U
ClientSampleId :
H0FZ7

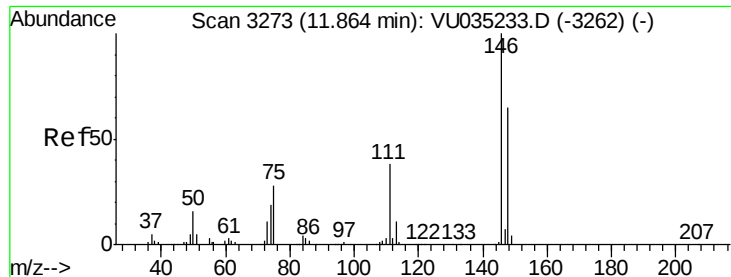
Tgt Ion:106 Resp: 1696241
Ion Ratio Lower Upper
106 100
91 215.0 153.2 284.6



#56
Isopropylbenzene
Concen: 2.050 ug/L
RT: 10.51 min Scan# 2853
Delta R.T. -0.00 min
Lab File: VU035249.D
Acq: 18 Oct 2019 07:14

Tgt Ion:105 Resp: 256583
Ion Ratio Lower Upper
105 100
120 26.3 21.0 31.6
77 15.9 12.6 19.0





#63

1,4-Dichlorobenzene

Concen: 0.112 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

Instrument :

MSVOA_U

ClientSampled :

H0FZ7

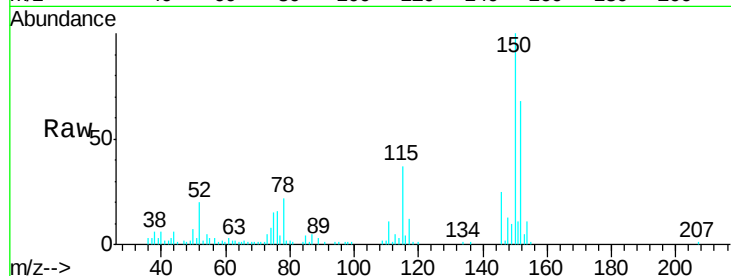
Tgt Ion:146 Resp: 6669

Ion Ratio Lower Upper

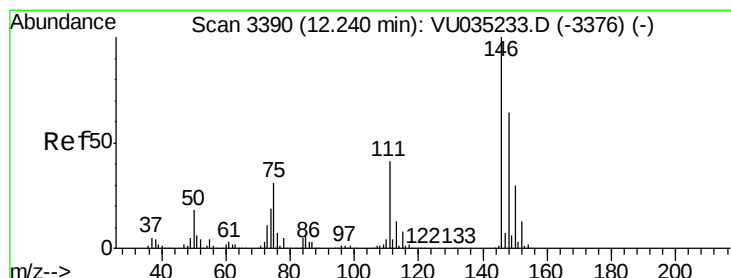
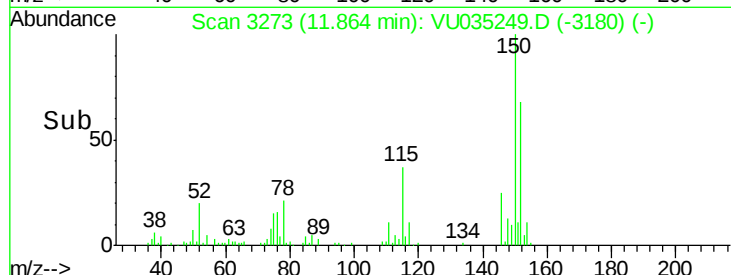
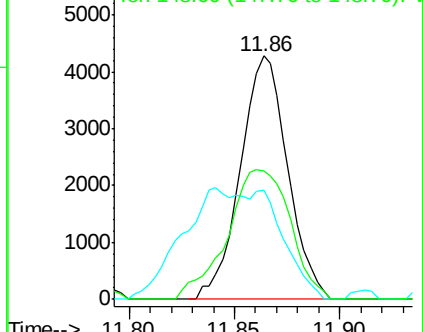
146 100

111 44.8 26.4 49.0

148 52.7 44.7 83.1



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.100 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU035249.D

Acq: 18 Oct 2019 07:14

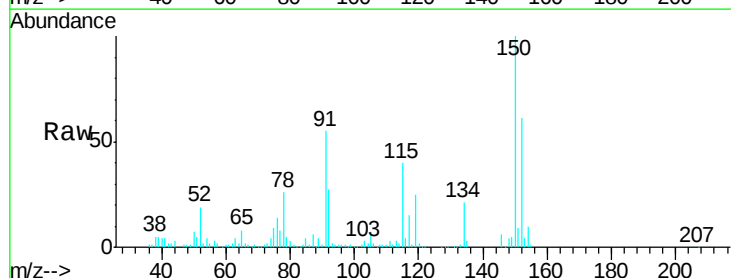
Tgt Ion:146 Resp: 5677

Ion Ratio Lower Upper

146 100

111 59.3 33.0 49.6#

148 78.0 51.0 76.4#



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

