

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121719\
 Data File : VU036258.D
 Acq On : 17 Dec 2019 14:55
 Operator : JC/MD
 Sample : K6281-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 01:26:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 18 01:23:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	242281	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	272481	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	126800	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	84612	3.97	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.40%
7) Chloroethane-d5	1.93	69	82489	4.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.20%
11) 1,1-Dichloroethene-d2	2.59	63	91792	2.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.60%#
20) 2-Butanone-d5	4.70	46	183825	45.99	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.98%
24) Chloroform-d	5.11	84	155982	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.75	65	85078	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
32) Benzene-d6	5.77	84	283211	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
36) 1,2-Dichloropropane-d6	6.73	67	97491	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.40%
41) Toluene-d8	7.93	98	232256	3.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.00%
43) trans-1,3-Dichloropropene-	8.21	79	36387	4.10	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.00%
46) 2-Hexanone-d5	8.68	63	156590	46.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.24%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	90981	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	113003	4.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	3619	0.112	ug/L #	50
13) Acetone	2.69	43	29978	8.606	ug/L	86
16) Methylene chloride	3.09	84	1591	0.060	ug/L	80
17) Methyl tert-butyl Ether	3.42	73	20109	0.522	ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	2192	0.116	ug/L	76
19) 1,1-Dichloroethane	3.91	63	4211	0.121	ug/L #	79
22) cis-1,2-Dichloroethene	4.71	96	5130	0.254	ug/L	90
33) Benzene	5.82	78	142900	1.706	ug/L	100
37) 1,2-Dichloropropane	6.73	63	10039	0.470	ug/L #	86
42) Toluene	8.00	91	39111	0.436	ug/L	99
48) 2-Hexanone	8.73	43	9065	1.087	ug/L #	90
51) Chlorobenzene	9.47	112	103324	1.743	ug/L	99
52) Ethylbenzene	9.60	91	49323	0.547	ug/L	97
53) m,p-Xylene	9.72	106	57560	1.657	ug/L	99
54) o-Xylene	10.13	106	37048	1.106	ug/L	94
55) Styrene	10.13	104	4488	0.076	ug/L #	1
56) Isopropylbenzene	10.51	105	14650	0.170	ug/L	96

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ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 18 01:26:54 2019
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 18 01:23:38 2019
Response via : Initial Calibration

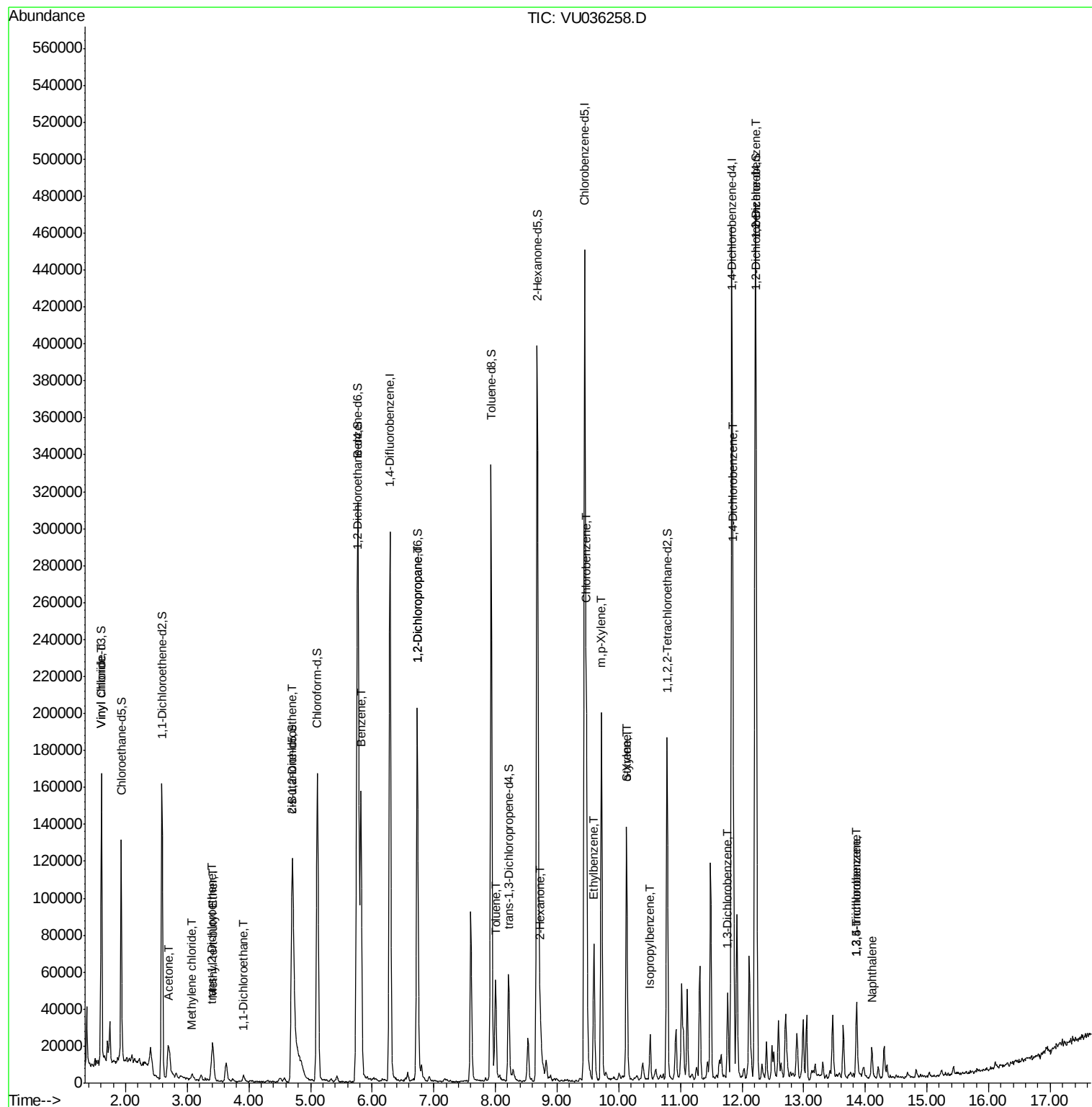
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.77	146	15587	0.364	ug/L	94
63) 1,4-Dichlorobenzene	11.86	146	54517	1.285	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	74745	1.834	ug/L	99
67) 1,3,5-Trichlorobenzene	13.86	180	10212	0.319	ug/L	96
68) 1,2,4-trichlorobenzene	13.86	180	10212	0.485	ug/L	93
69) Naphthalene	14.11	128	12984	0.485	ug/L	99

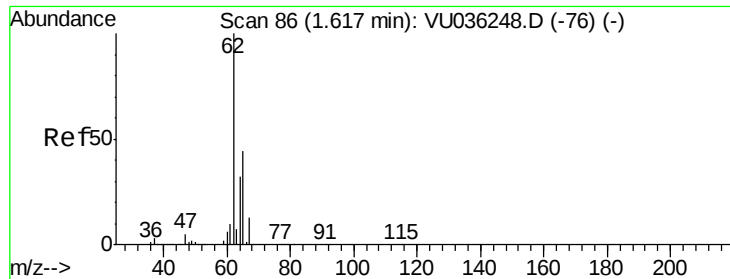
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.112 ug/L

RT: 1.61 min Scan# 85

Delta R.T. -0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

Instrument :

MSVOA_U

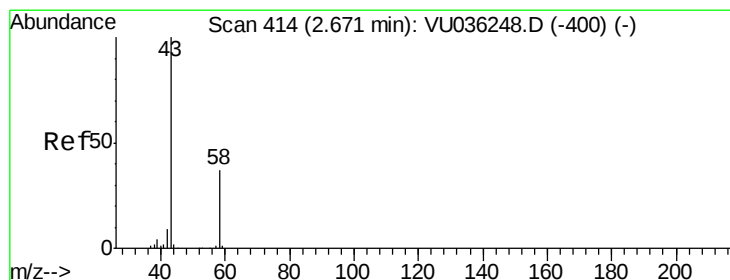
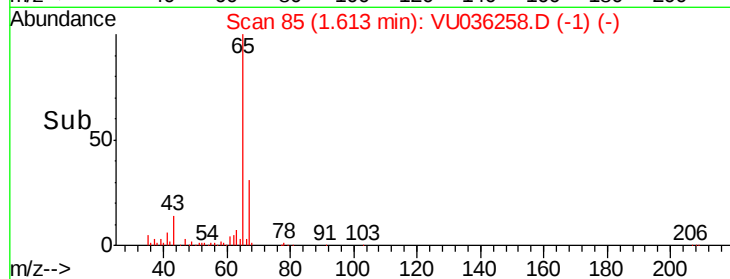
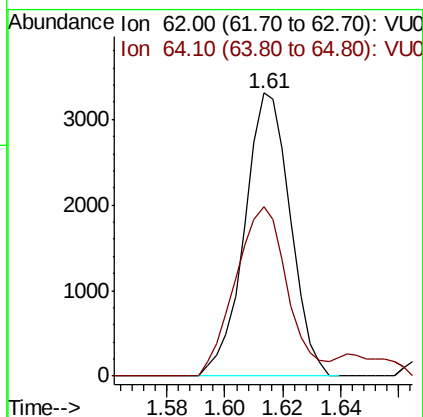
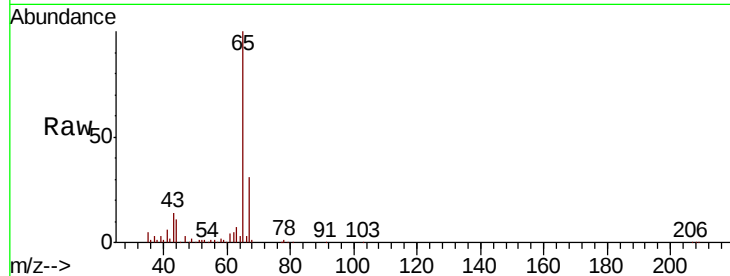
ClientSampleId :

Tot Ion: 62 Resp: 3619

Ion Ratio Lower Upper

62 100

64 59.8 22.4 41.6#



#13

Acetone

Concen: 8.606 ug/L

RT: 2.69 min Scan# 420

Delta R.T. 0.02 min

Lab File: VU036258.D

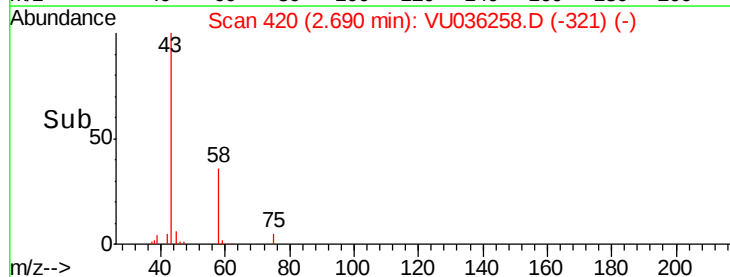
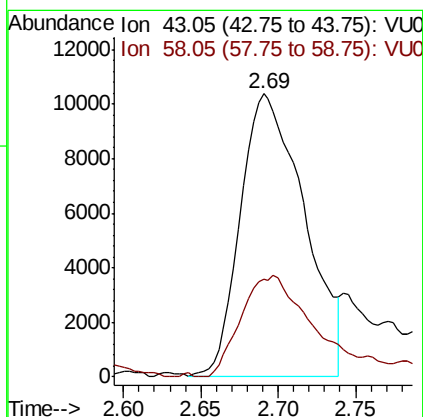
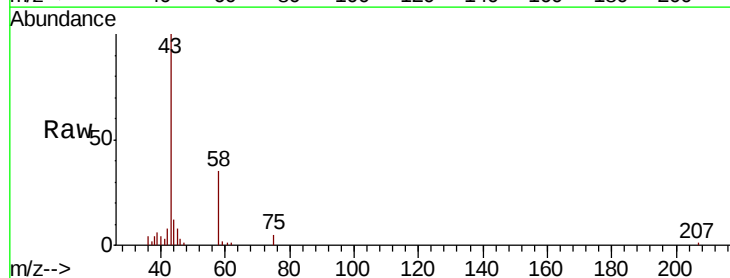
Acq: 17 Dec 2019 14:55

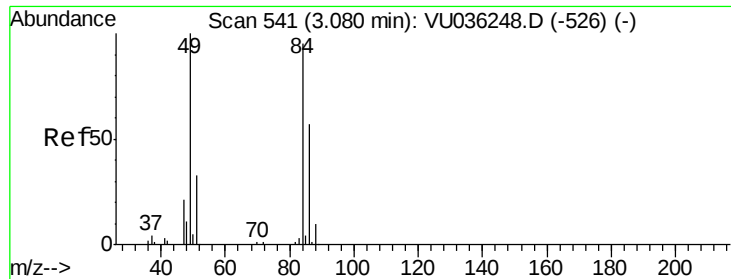
Tgt Ion: 43 Resp: 29978

Ion Ratio Lower Upper

43 100

58 41.9 0.0 67.6

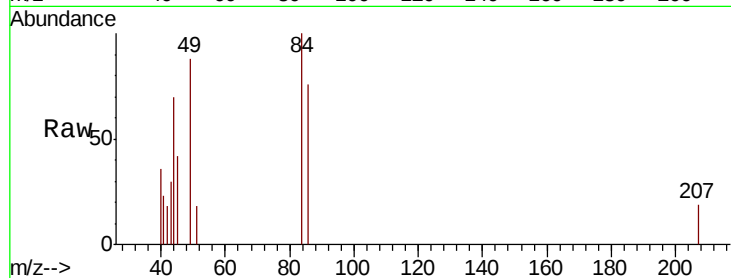




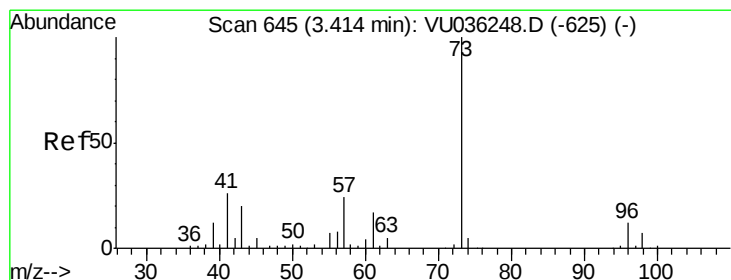
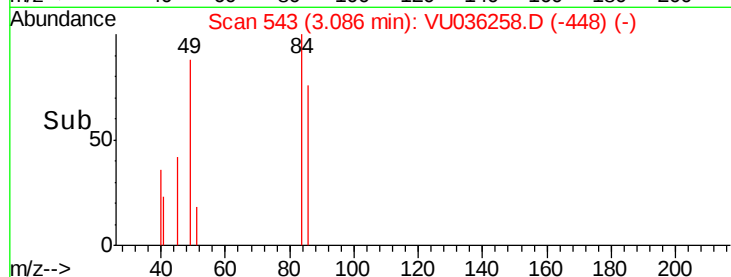
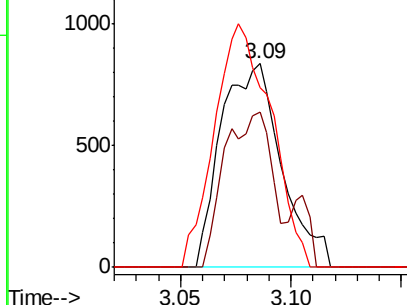
#16
Methvlene chloride
Concen: 0.060 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.01 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 1591
Ion Ratio Lower Upper
84 100
86 76.5 43.0 79.8
49 88.3 77.3 143.5

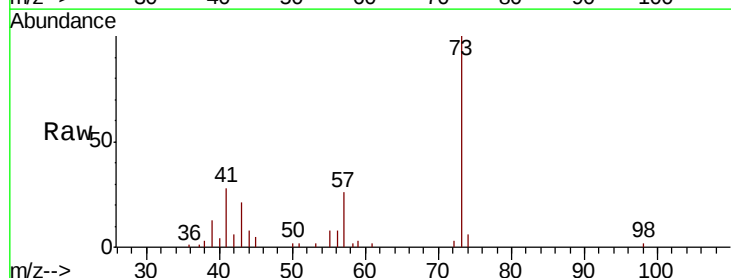


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

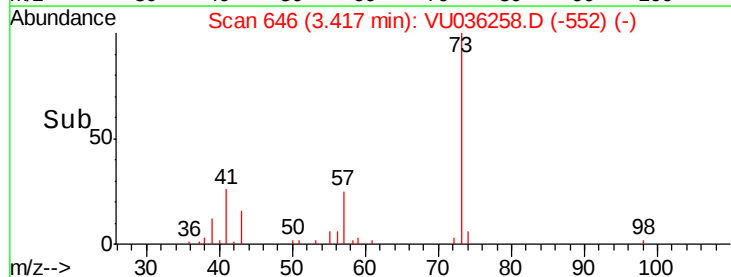
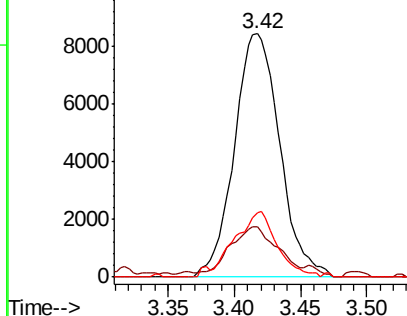


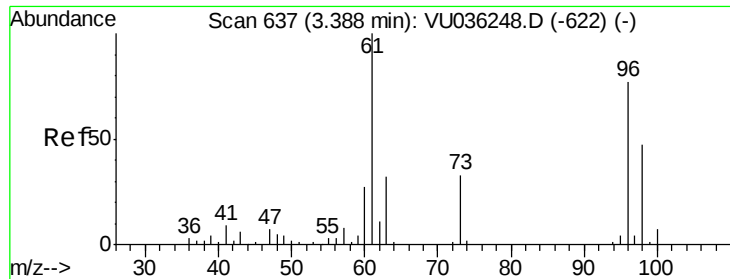
#17
Methyl tert-butyl Ether
Concen: 0.522 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.00 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

Tgt Ion: 73 Resp: 20109
Ion Ratio Lower Upper
73 100
43 18.1 15.3 22.9
57 24.8 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

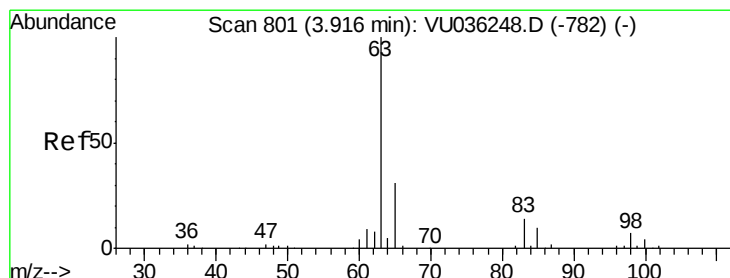
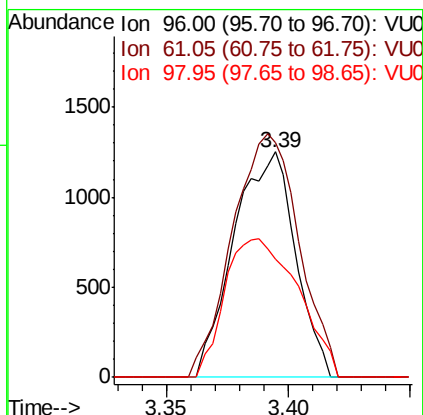
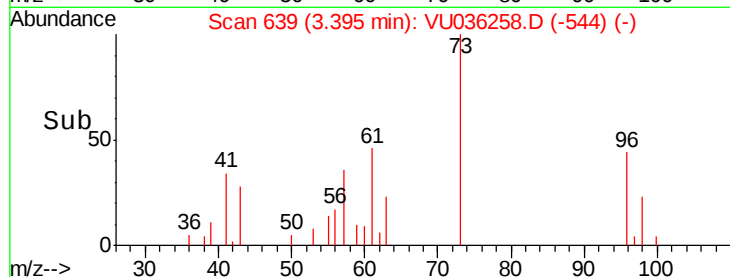
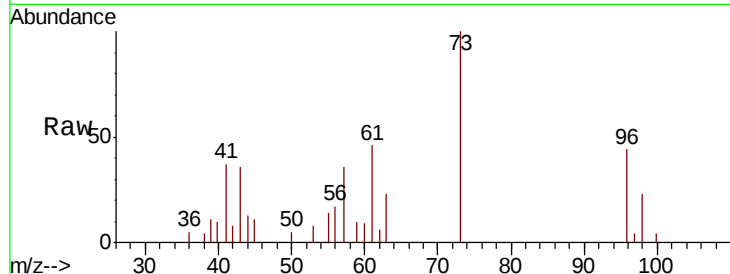




#18
trans-1,2-Dichloroethene
Concen: 0.116 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

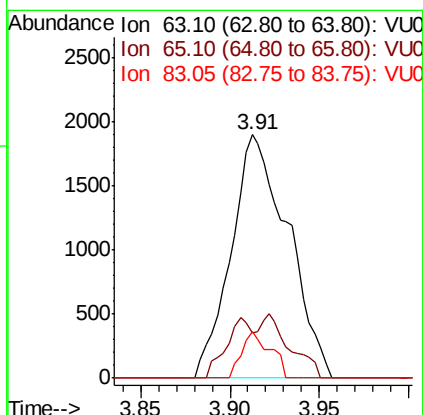
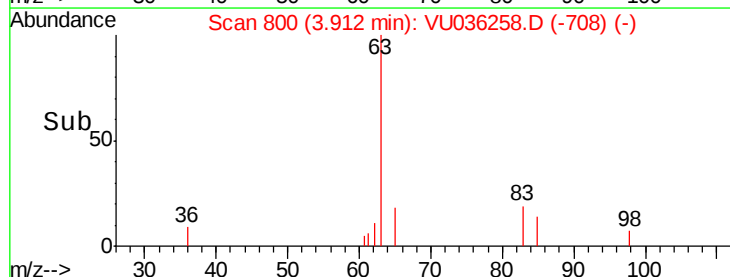
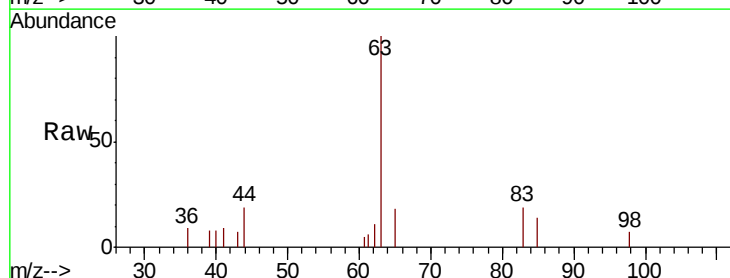
Instrument :
MSVOA_U
ClientSampleId :

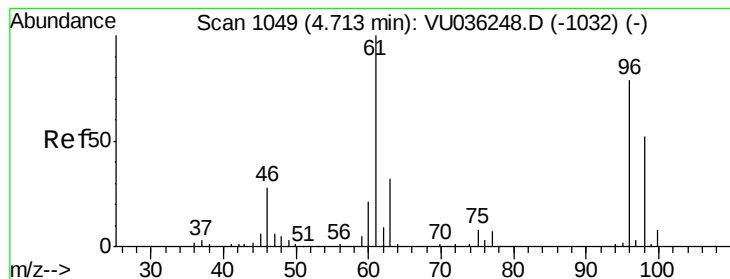
Tot Ion: 96 Resp: 2192
Ion Ratio Lower Upper
96 100
61 104.0 94.8 176.2
98 52.2 46.8 86.8



#19
1,1-Dichloroethane
Concen: 0.121 ug/L
RT: 3.91 min Scan# 800
Delta R.T. -0.00 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

Tgt Ion: 63 Resp: 4211
Ion Ratio Lower Upper
63 100
65 18.5 22.6 42.0#
83 19.0 9.7 18.1#





#22

cis-1,2-Dichloroethene

Concen: 0.254 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

Instrument :
MSVOA_U
ClientSampleId :

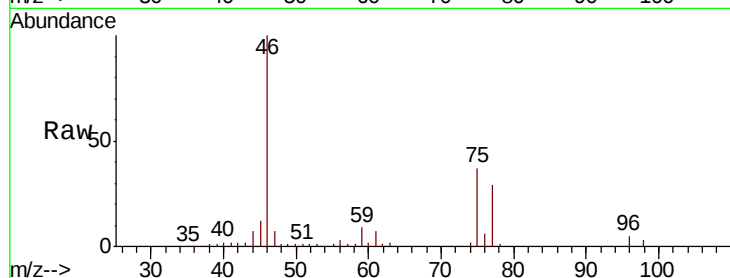
Tot Ion: 96 Resp: 5130

Ion Ratio Lower Upper

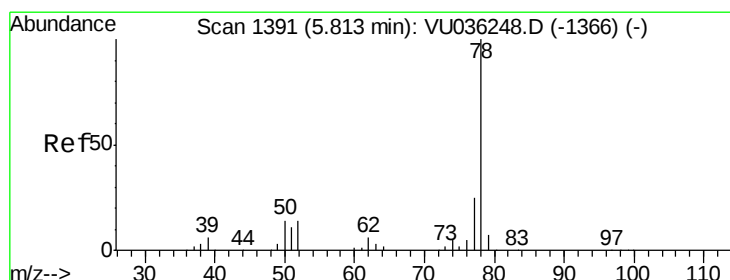
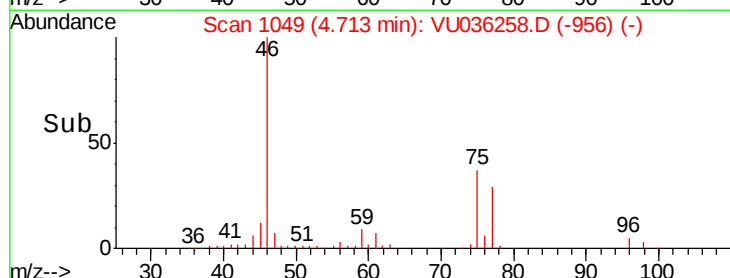
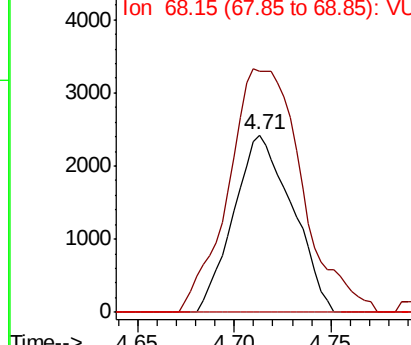
96 100

61 135.8 86.7 161.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#33

Benzene

Concen: 1.706 ug/L

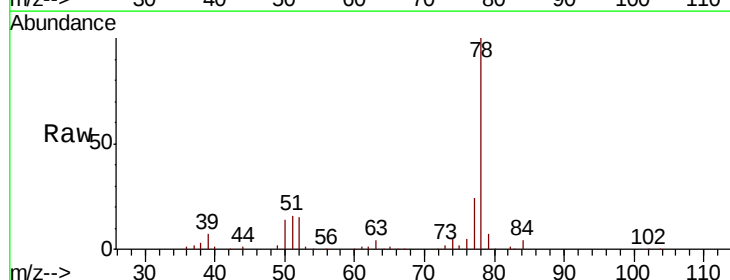
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

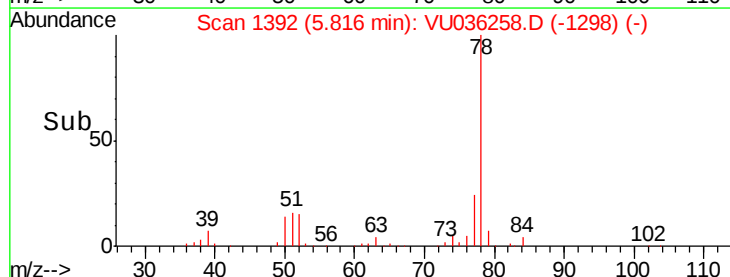
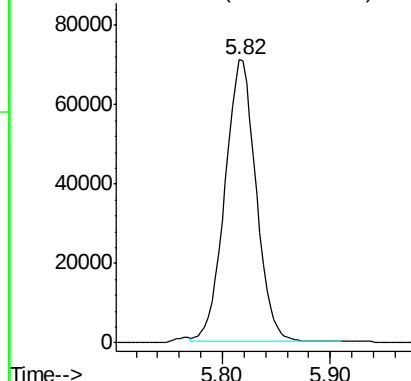
Lab File: VU036258.D

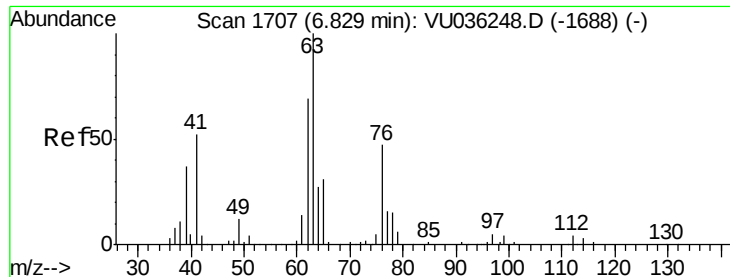
Acq: 17 Dec 2019 14:55

Tgt Ion: 78 Resp: 142900



Abundance Ion 78.10 (77.80 to 78.80): VU0

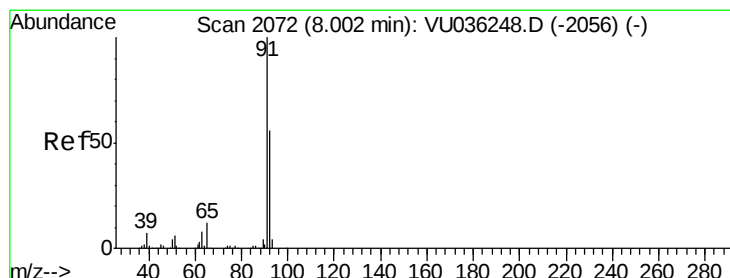
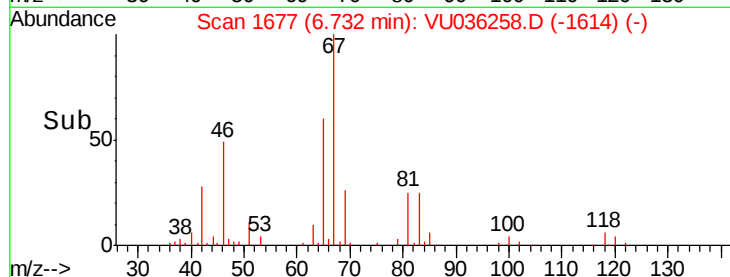
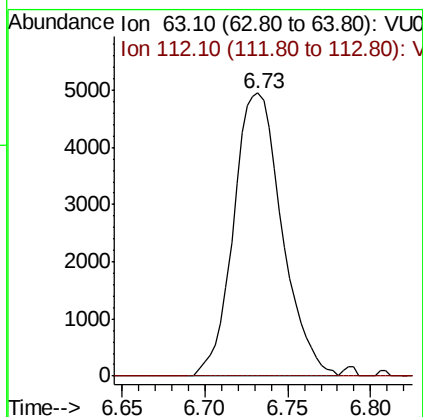
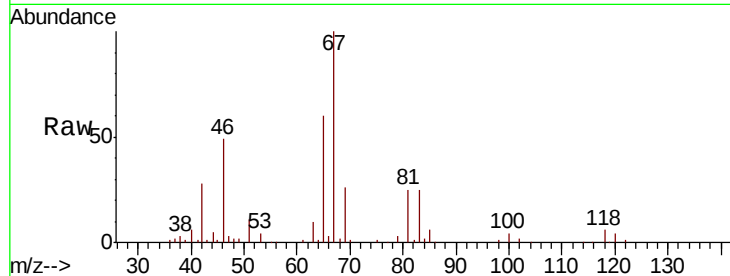




#37
 1,2-Dichloropropane
 Concen: 0.470 ug/L
 RT: 6.73 min Scan# 1677
 Delta R.T. -0.10 min
 Lab File: VU036258.D
 Acq: 17 Dec 2019 14:55

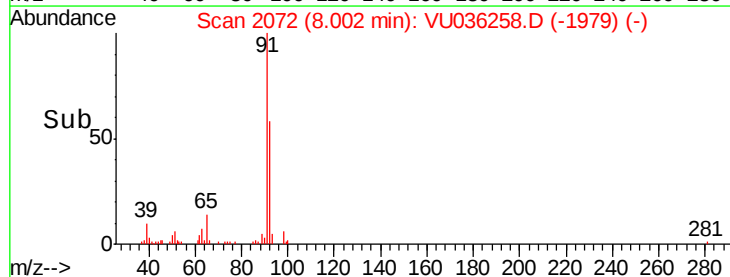
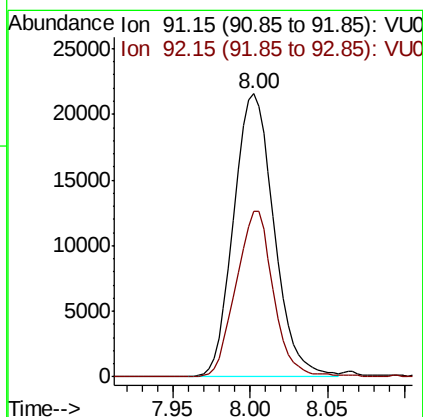
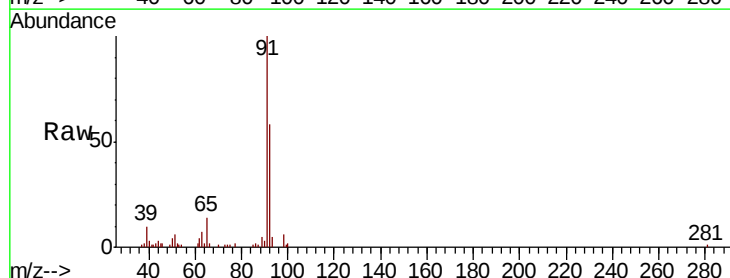
Instrument :
 MSVOA_U
 ClientSampled :

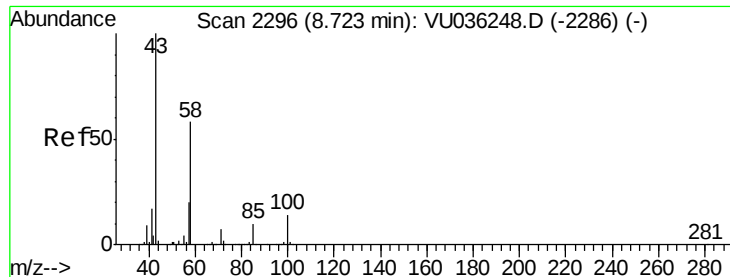
Tot Ion: 63 Resp: 10039
 Ion Ratio Lower Upper
 63 100
 112 0.2 3.8 5.8#



#42
 Toluene
 Concen: 0.436 ug/L
 RT: 8.00 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VU036258.D
 Acq: 17 Dec 2019 14:55

Tgt Ion: 91 Resp: 39111
 Ion Ratio Lower Upper
 91 100
 92 58.4 41.2 76.6

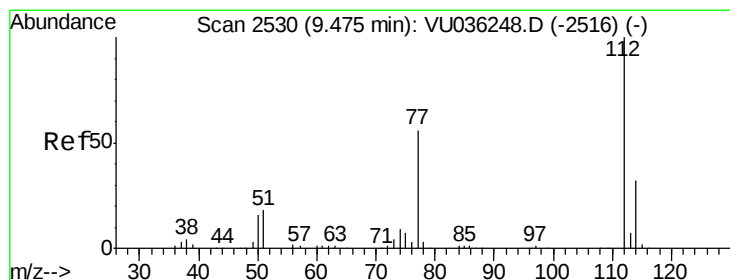
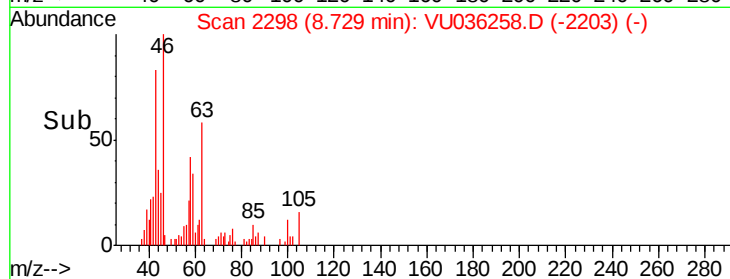
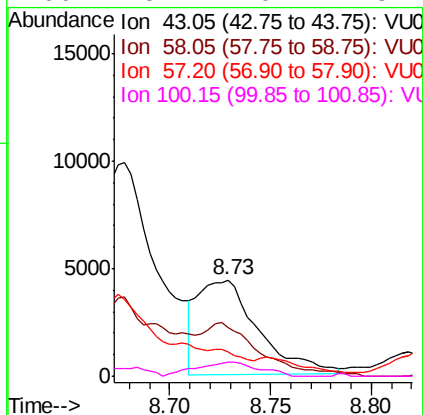
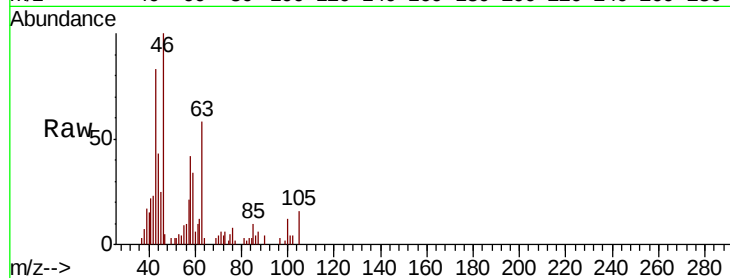




#48
2-Hexanone
Concen: 1.087 ug/L
RT: 8.73 min Scan# 2298
Delta R.T. 0.01 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

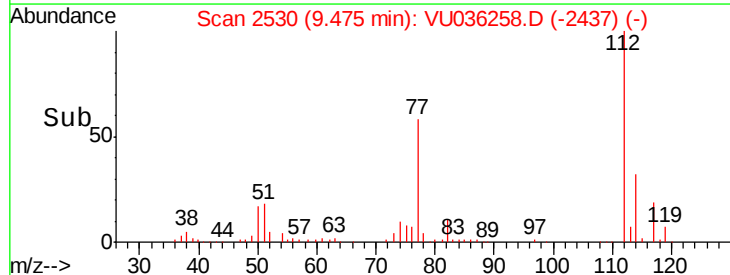
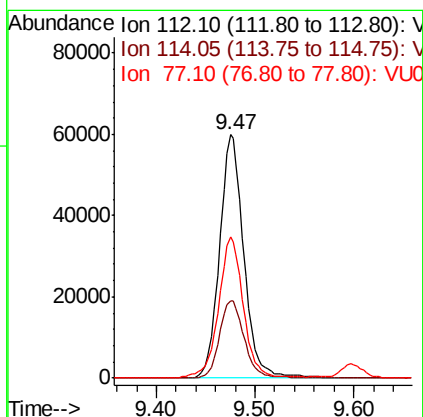
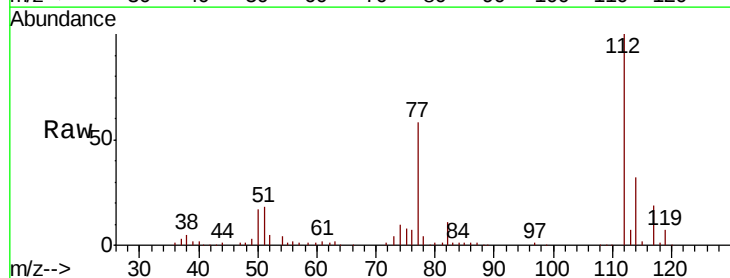
Instrument :
MSVOA_U
ClientSampleId :

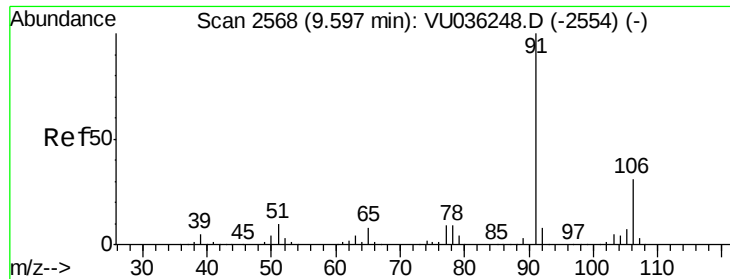
Tot Ion:	43	Resp:	9065
Ion	Ratio	Lower	Upper
43	100		
58	53.5	46.2	69.2
57	10.3	16.2	24.4#
100	16.1	10.2	15.4#



#51
Chlorobenzene
Concen: 1.743 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

Tgt Ion:	112	Resp:	103324
Ion	Ratio	Lower	Upper
112	100		
114	32.0	23.2	43.2
77	57.8	46.5	69.7





#52

Ethylbenzene

Concen: 0.547 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

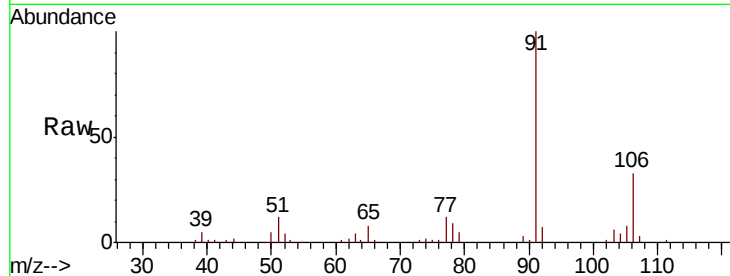
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 49323

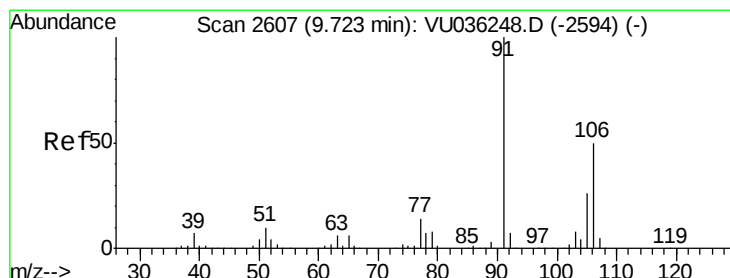
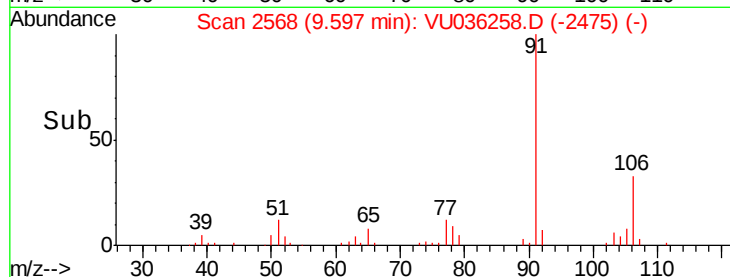
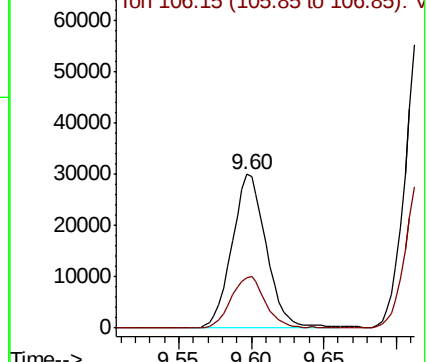
Ion Ratio Lower Upper

91 100

106 33.1 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036248.D (-2554) (-)



#53

m,p-Xylene

Concen: 1.657 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036258.D

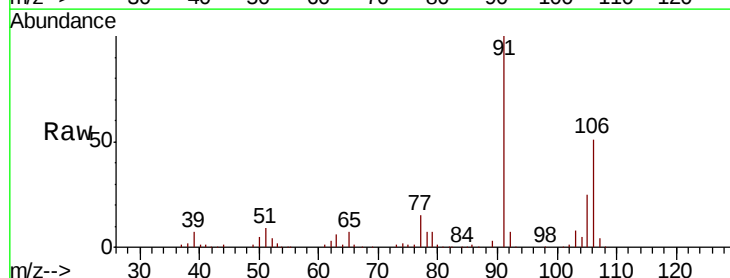
Acq: 17 Dec 2019 14:55

Tgt Ion: 106 Resp: 57560

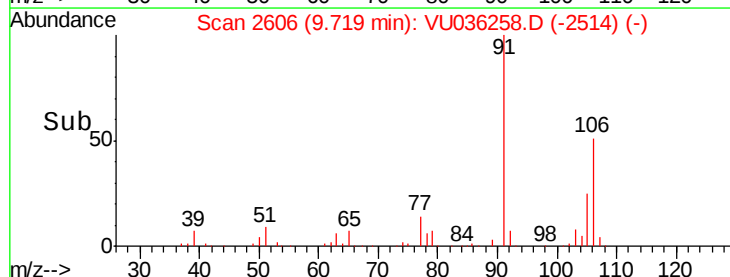
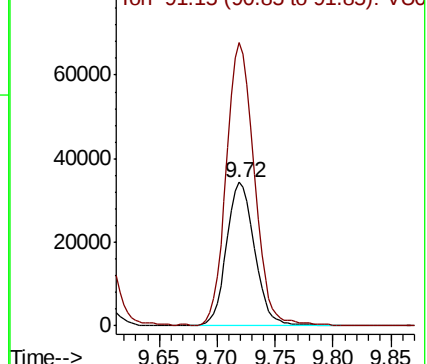
Ion Ratio Lower Upper

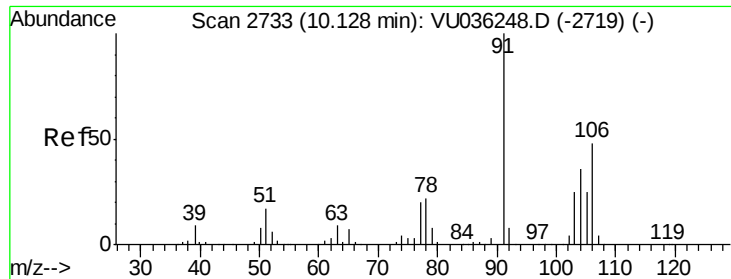
106 100

91 197.2 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): VU036248.D (-2594) (-)

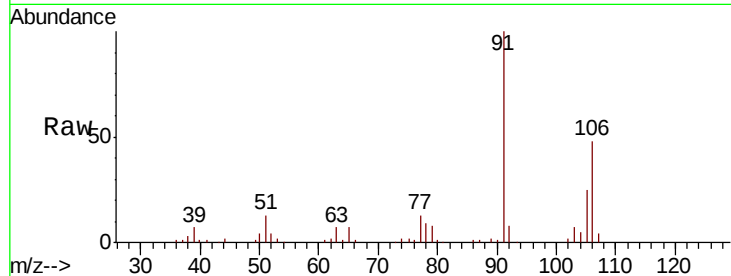




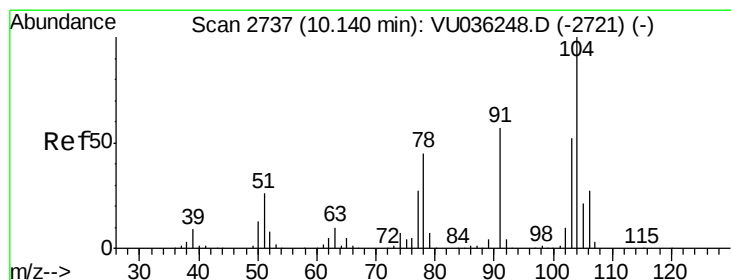
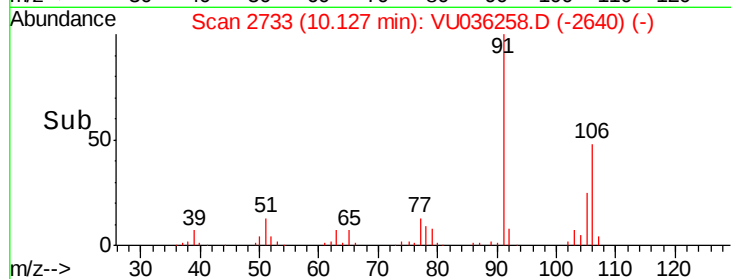
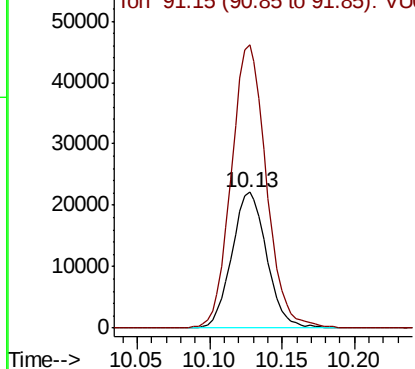
#54
o-Xylene
Concen: 1.106 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 37048
Ion Ratio Lower Upper
106 100
91 208.5 152.8 283.8

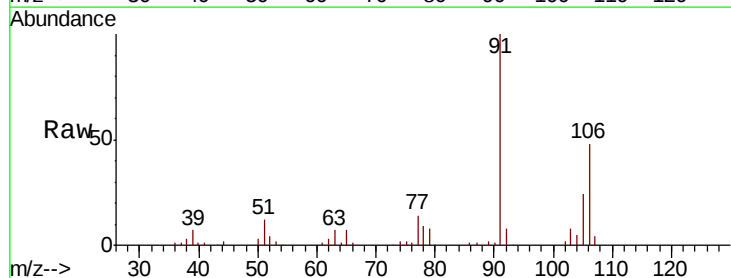


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

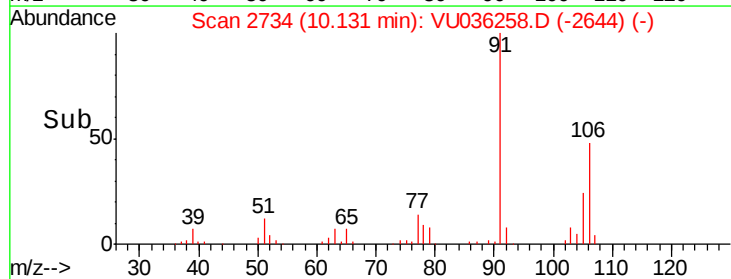
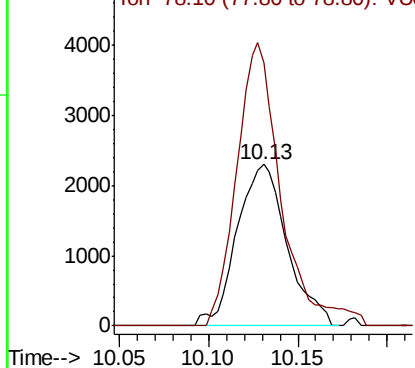


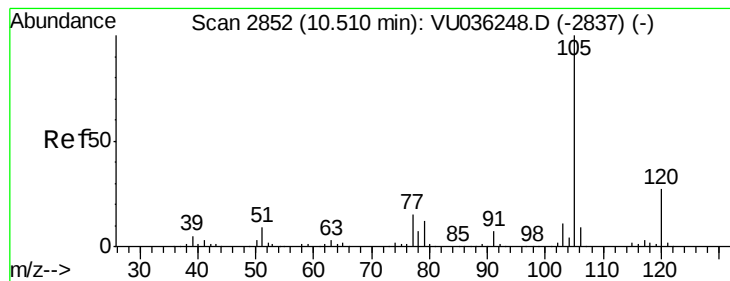
#55
Styrene
Concen: 0.076 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.01 min
Lab File: VU036258.D
Acq: 17 Dec 2019 14:55

Tgt Ion:104 Resp: 4488
Ion Ratio Lower Upper
104 100
78 163.0 32.1 59.5#



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.170 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

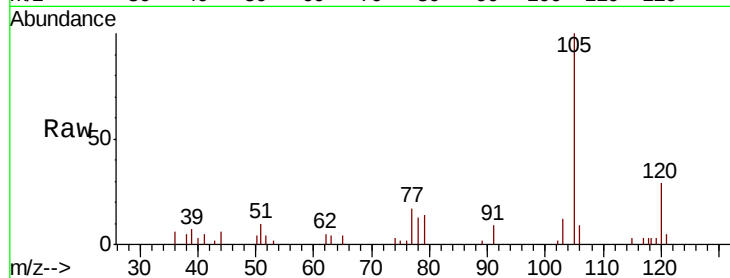
Tot Ion:105 Resp: 14650

Ion Ratio Lower Upper

105 100

120 27.4 21.0 31.6

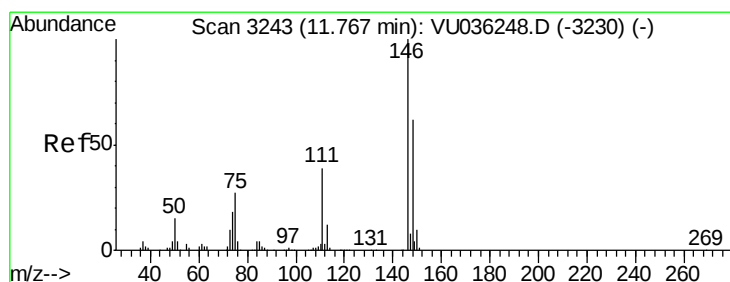
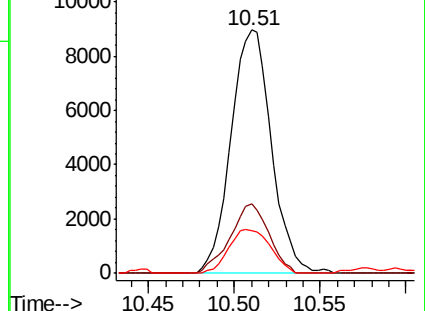
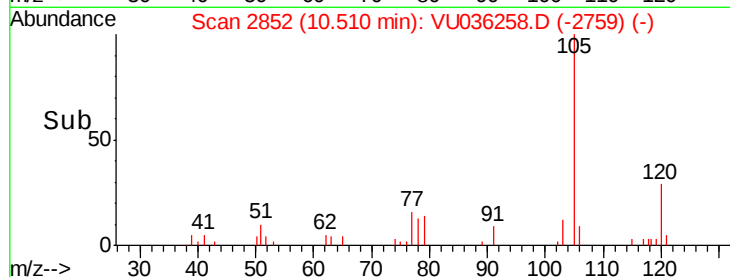
77 18.7 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU



#62

1,3-Dichlorobenzene

Concen: 0.364 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

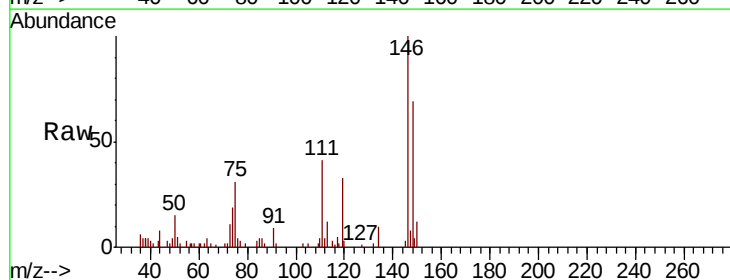
Tgt Ion:146 Resp: 15587

Ion Ratio Lower Upper

146 100

111 40.5 26.3 48.9

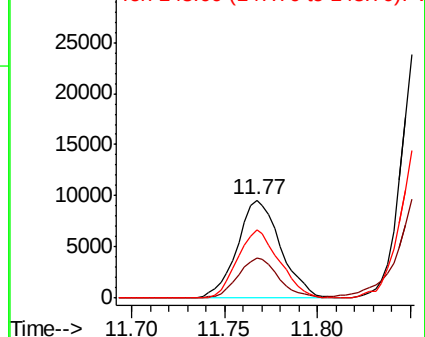
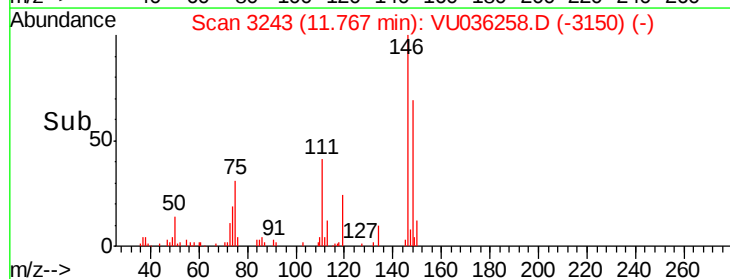
148 69.4 45.1 83.9

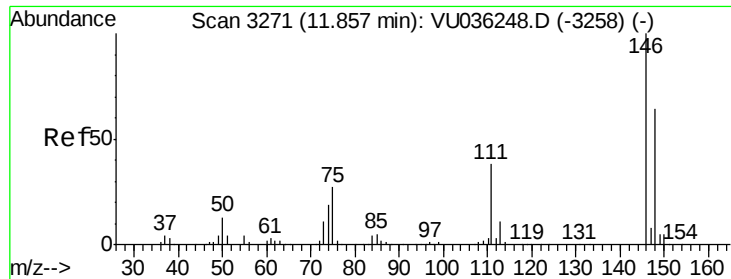


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 1.285 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

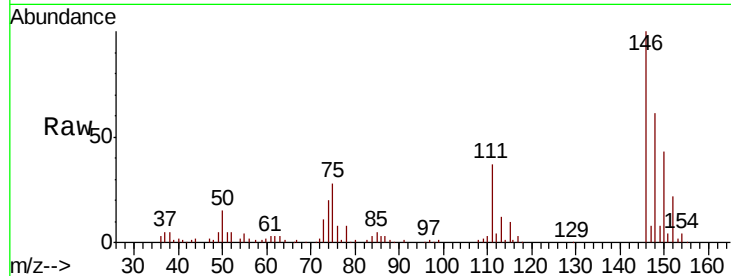
Tot Ion:146 Resp: 54517

Ion Ratio Lower Upper

146 100

111 36.8 25.8 48.0

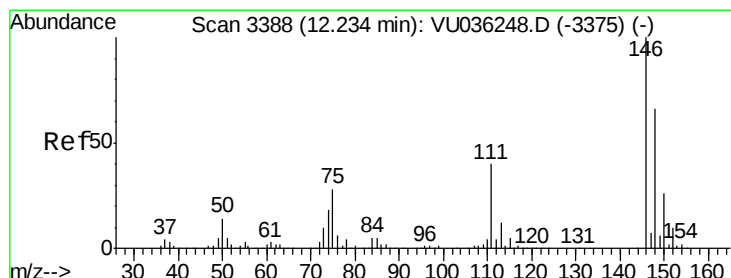
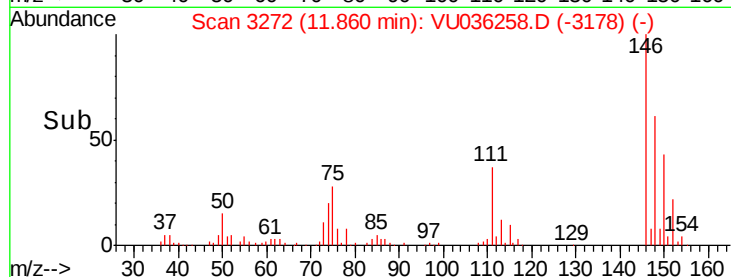
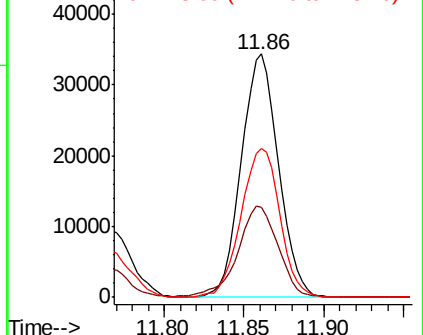
148 61.3 44.7 82.9



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: 1.834 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

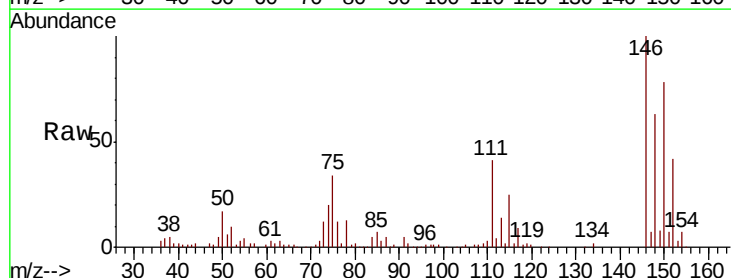
Tgt Ion:146 Resp: 74745

Ion Ratio Lower Upper

146 100

111 41.4 32.5 48.7

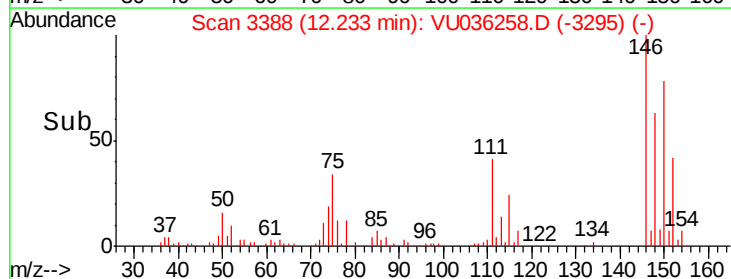
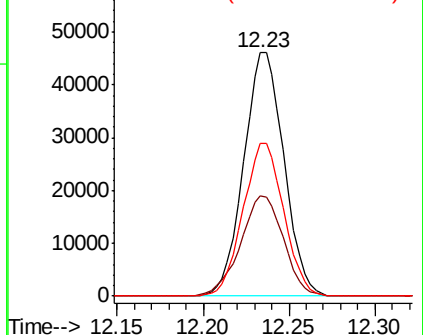
148 62.7 49.2 73.8

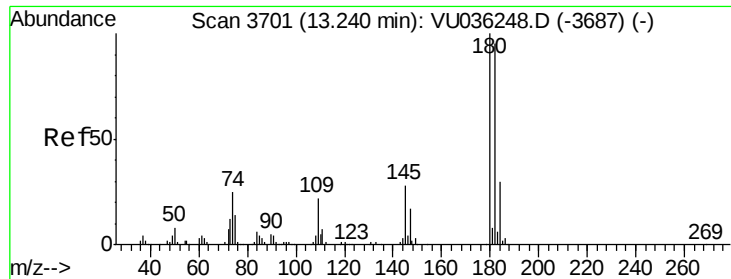


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

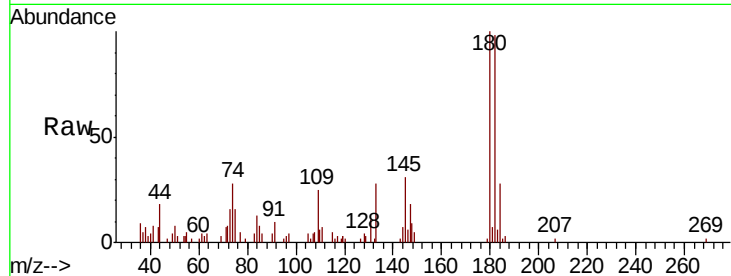




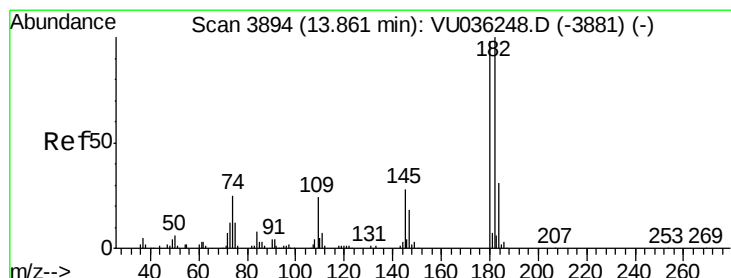
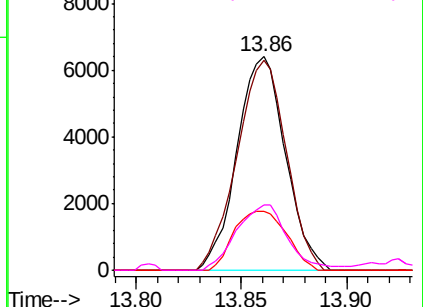
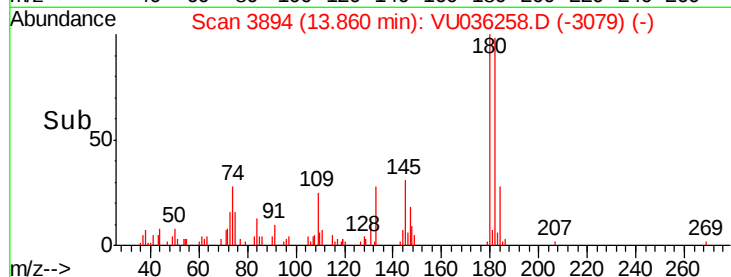
#67
 1,3,5-Trichlorobenzene
 Concen: 0.319 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.62 min
 Lab File: VU036258.D
 Acq: 17 Dec 2019 14:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	10212
Ion	Ratio	Lower Upper
180	100	
182	100.0	76.9 115.3
184	29.8	24.2 36.4
145	32.6	22.0 33.0

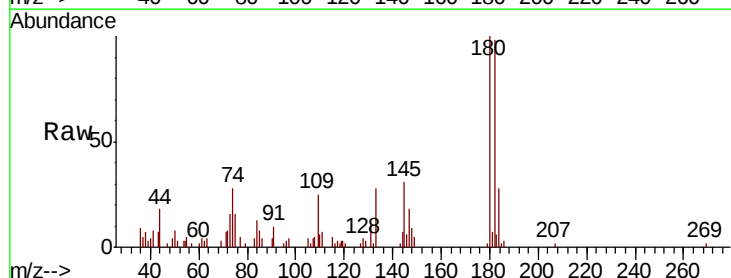


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

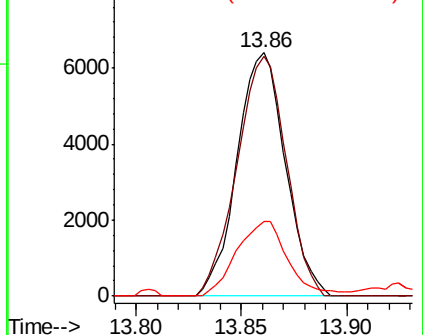
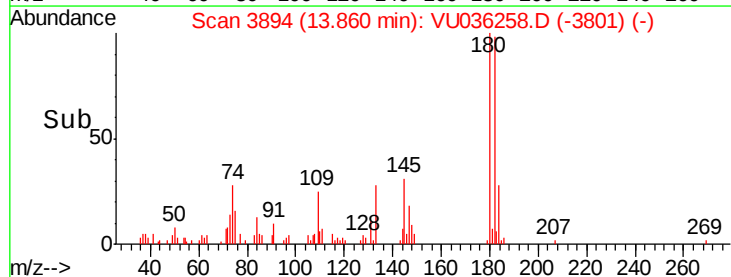


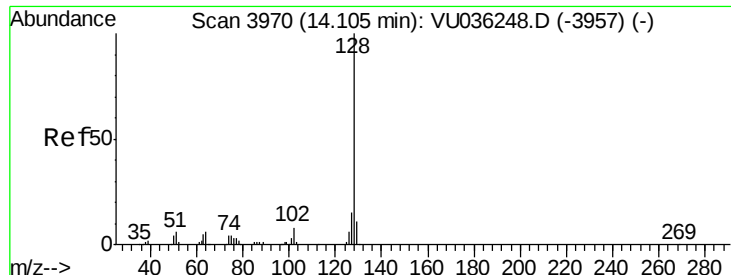
#68
 1,2,4-trichlorobenzene
 Concen: 0.485 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU036258.D
 Acq: 17 Dec 2019 14:55

Tgt Ion:180	Resp:	10212
Ion	Ratio	Lower Upper
180	100	
182	100.0	75.3 112.9
145	32.6	22.7 34.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.485 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU036258.D

Acq: 17 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

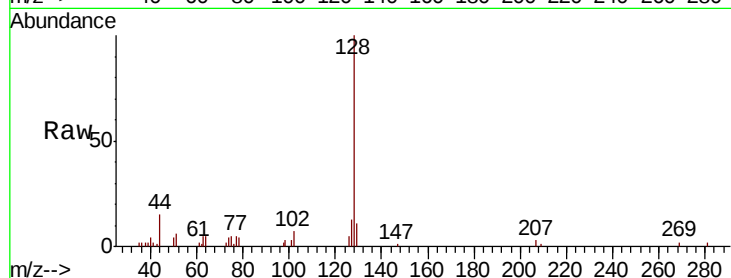
Tot Ion:128 Resp: 12984

Ion Ratio Lower Upper

128 100

129 10.5 8.4 12.6

127 15.0 11.5 17.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

