

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093019\
 Data File : VU034876.D
 Acq On : 30 Sep 2019 12:16
 Operator : JC/SP
 Sample : VSTD0.504
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 30 17:01:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 30 16:58:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	204327	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	196151	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	86294	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	7049	0.44	ug/L	0.00
7) Chloroethane-d5	1.67	69	5629	0.43	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	12054	0.43	ug/L	0.00
20) 2-Butanone-d5	4.19	46	18262	4.51	ug/L	0.00
24) Chloroform-d	4.62	84	11981	0.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	7376	0.51	ug/L	0.00
32) Benzene-d6	5.32	84	23054	0.45	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	7846	0.45	ug/L	0.00
41) Toluene-d8	7.55	98	21397	0.44	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	2580	0.37	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	11713	3.72	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	6186	0.45	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	7547	0.51	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	6618	0.445 ug/L	100
3) Chloromethane	1.32	50	5690	0.419 ug/L	93
5) Vinyl chloride	1.40	62	5557	0.382 ug/L	98
6) Bromomethane	1.62	94	2837	0.393 ug/L	91
8) Chloroethane	1.69	64	3314	0.394 ug/L	86
9) Trichlorofluoromethane	1.88	101	7488	0.386 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	4921	0.447 ug/L	96
12) 1,1-Dichloroethene	2.27	96	3751	0.393 ug/L	73
13) Acetone	2.32	43	17432	5.621 ug/L	94
14) Carbon disulfide	2.46	76	6378	0.275 ug/L #	89
15) Methyl Acetate	2.61	43	3318	0.455 ug/L #	82
16) Methylene chloride	2.69	84	7489	0.581 ug/L	93
17) Methyl tert-butyl Ether	2.99	73	16046	0.465 ug/L	98
18) trans-1,2-Dichloroethene	2.96	96	3949	0.397 ug/L	82
19) 1,1-Dichloroethane	3.42	63	11730	0.471 ug/L	92
21) 2-Butanone	4.27	43	22026	4.936 ug/L	98
22) cis-1,2-Dichloroethene	4.20	96	5471	0.404 ug/L	81
23) Bromochloromethane	4.53	128	2262	0.452 ug/L	91
25) Chloroform	4.65	83	14917	0.527 ug/L	100
27) 1,2-Dichloroethane	5.39	62	8115	0.499 ug/L	98
29) 1,1,1-Trichloroethane	4.88	97	9501	0.469 ug/L	97
30) Cyclohexane	4.96	56	7310	0.362 ug/L	95
31) Carbon tetrachloride	5.10	117	7141	0.436 ug/L	100
33) Benzene	5.37	78	19904	0.392 ug/L	100
34) Trichloroethene	6.16	95	5692	0.447 ug/L	98
35) Methylcyclohexane	6.39	83	6637	0.334 ug/L	90
37) 1,2-Dichloropropane	6.41	63	7323	0.459 ug/L #	92
38) Bromodichloromethane	6.74	83	8557	0.443 ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	8493	0.384 ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	58380	4.751 ug/L	99

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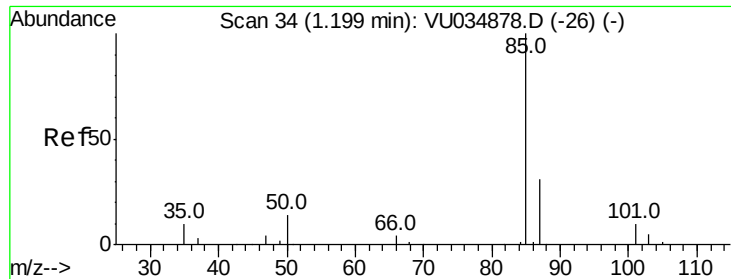
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 30 17:01:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.62	91	22203	0.403	ug/L	96
44) trans-1,3-Dichloropropene	7.87	75	6923	0.383	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	4684	0.453	ug/L	97
47) Tetrachloroethene	8.21	164	3583	0.456	ug/L	91
48) 2-Hexanone	8.36	43	35449	4.273	ug/L	99
49) Dibromochloromethane	8.46	129	5101	0.422	ug/L	88
50) 1,2-Dibromoethane	8.57	107	3905	0.426	ug/L #	89
51) Chlorobenzene	9.10	112	15348	0.443	ug/L	99
52) Ethylbenzene	9.23	91	25445	0.399	ug/L	98
53) m,p-Xylene	9.36	106	8883	0.394	ug/L	99
54) o-Xylene	9.76	106	9681	0.425	ug/L	99
55) Styrene	9.78	104	15602	0.411	ug/L	94
56) Isopropylbenzene	10.14	105	28138	0.442	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	6994	0.464	ug/L	97
59) 1,2,3-Trichloropropane	10.48	75	4743	0.450	ug/L	97
61) Bromoform	9.94	173	2892	0.511	ug/L	90
62) 1,3-Dichlorobenzene	11.40	146	12187	0.489	ug/L	94
63) 1,4-Dichlorobenzene	11.49	146	13109	0.529	ug/L	94
65) 1,2-Dichlorobenzene	11.86	146	12331	0.500	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.64	75	707	0.327	ug/L #	72
67) 1,3,5-Trichlorobenzene	12.87	180	7377	0.443	ug/L	92
68) 1,2,4-trichlorobenzene	13.49	180	4146	0.314	ug/L #	87
69) Naphthalene	13.74	128	5788	0.187	ug/L #	81
70) 1,2,3-Trichlorobenzene	13.98	180	4534	0.363	ug/L #	80

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



#2

Dichlorodifluoromethane

Concen: 0.445 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

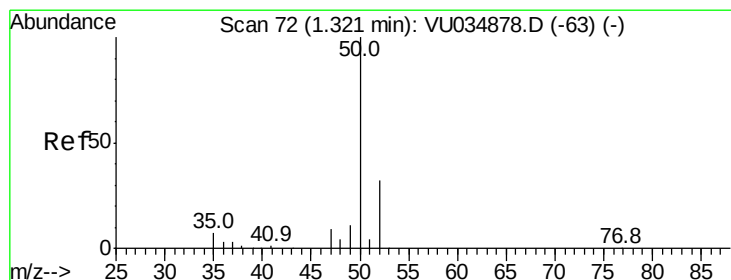
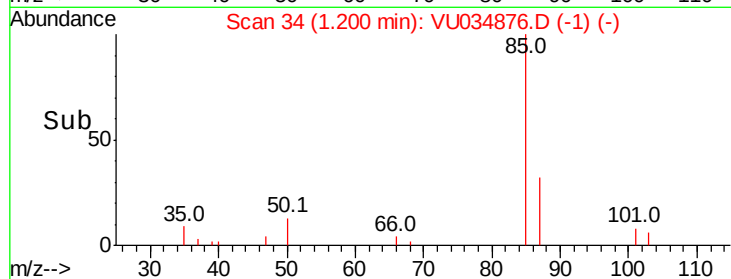
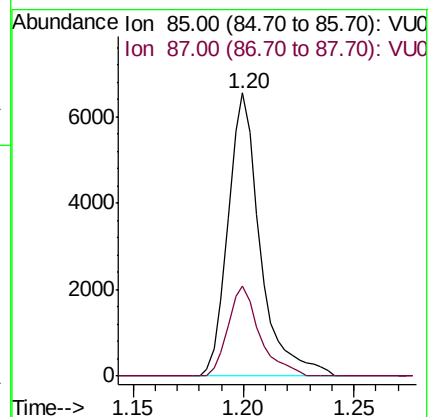
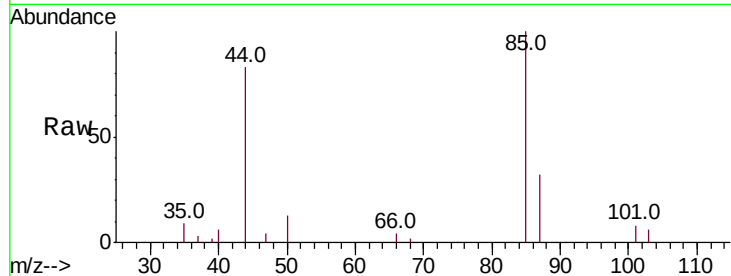
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 6618

Ion Ratio Lower Upper

85 100

87 31.5 25.0 37.6



#3

Chloromethane

Concen: 0.419 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034876.D

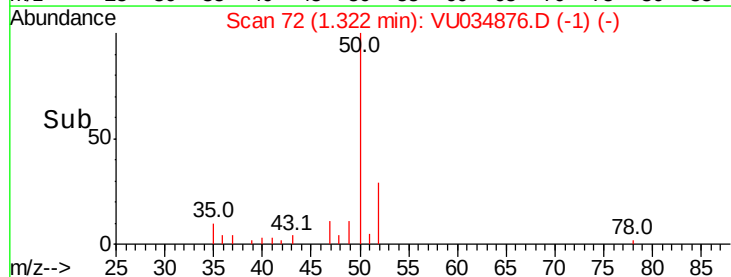
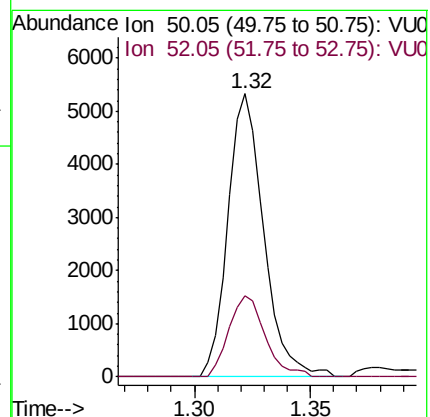
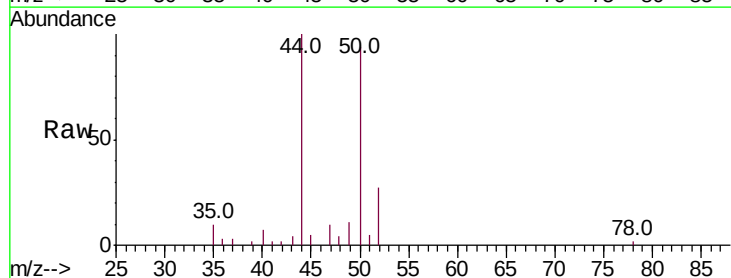
Acq: 30 Sep 2019 12:16

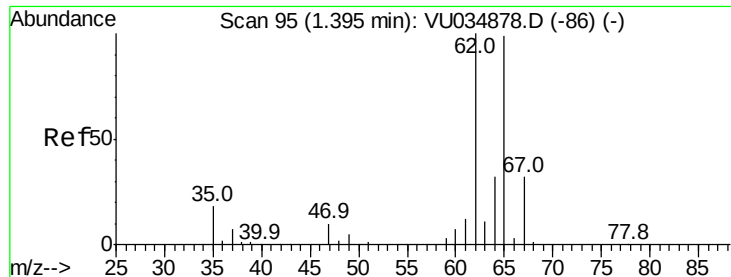
Tgt Ion: 50 Resp: 5690

Ion Ratio Lower Upper

50 100

52 28.7 22.7 42.1





#5

Vinyl chloride

Concen: 0.382 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

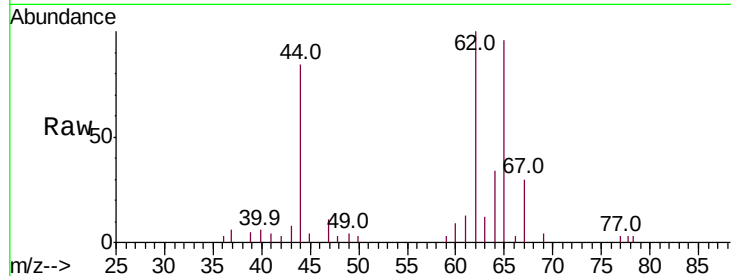
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 5557

Ion Ratio Lower Upper

62 100

64 33.6 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU034876.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU034876.D (-86) (-)

1.40

6000

5000

4000

3000

2000

1000

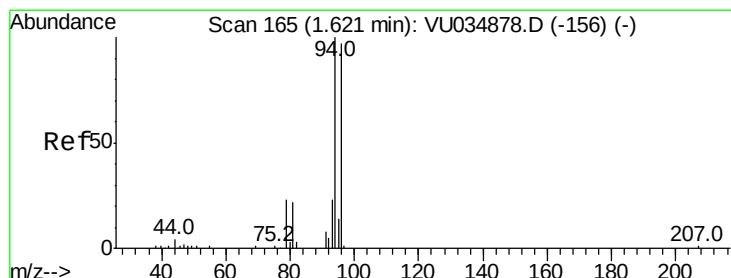
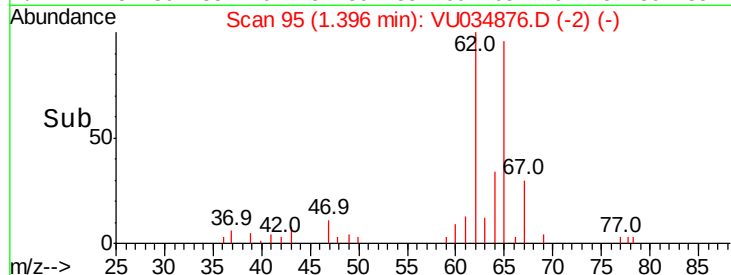
0

Time-->

1.35

1.40

1.45



#6

Bromomethane

Concen: 0.393 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU034876.D

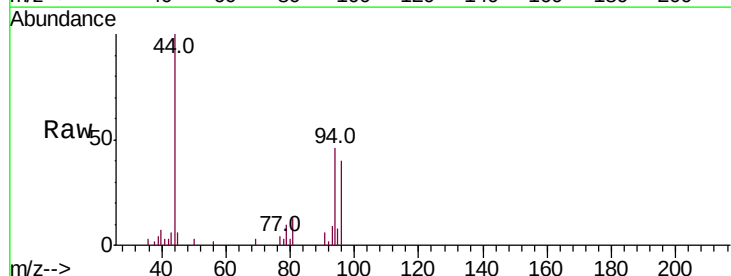
Acq: 30 Sep 2019 12:16

Tgt Ion: 94 Resp: 2837

Ion Ratio Lower Upper

94 100

96 87.8 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VU034876.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU034876.D (-156) (-)

1.62

2500

2000

1500

1000

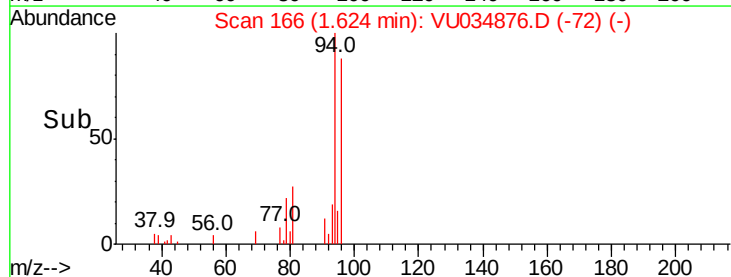
500

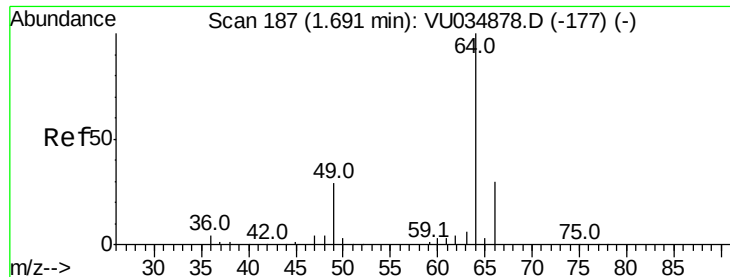
0

Time-->

1.60

1.65





#8

Chloroethane

Concen: 0.394 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

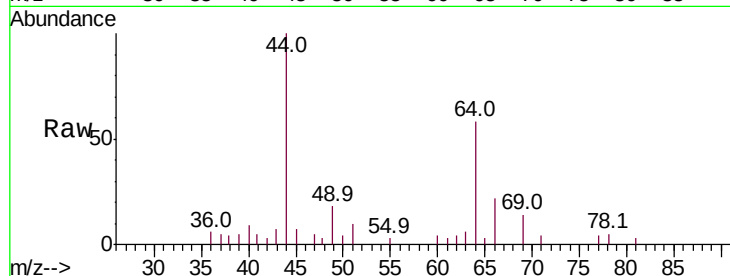
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 3314

Ion Ratio Lower Upper

64 100

66 37.4 20.9 38.9

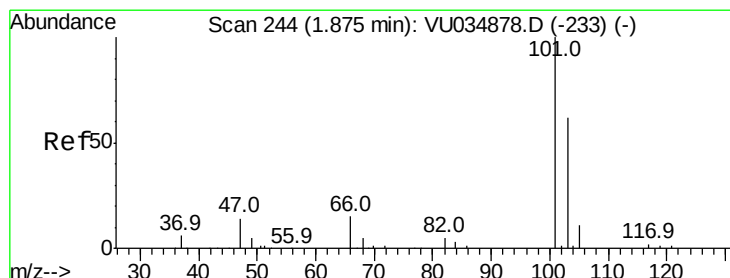
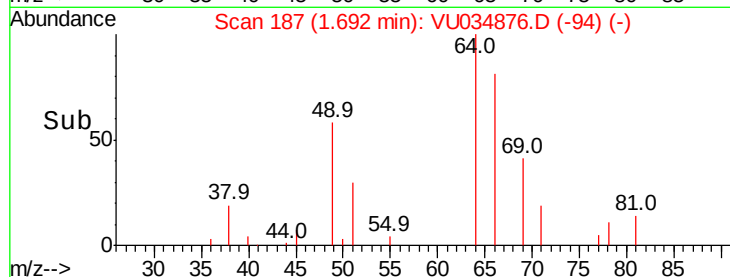


Abundance Ion 64.10 (63.80 to 64.80): VU034876.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU034876.D (-177) (-)

1.69

Time-->



#9

Trichlorofluoromethane

Concen: 0.386 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU034876.D

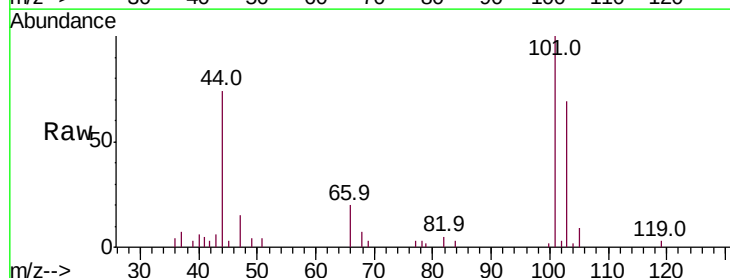
Acq: 30 Sep 2019 12:16

Tgt Ion:101 Resp: 7488

Ion Ratio Lower Upper

101 100

103 67.7 50.3 75.5

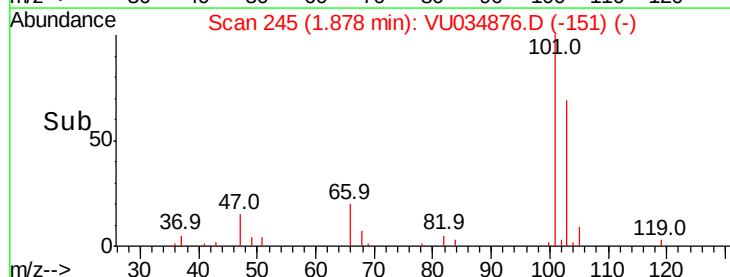


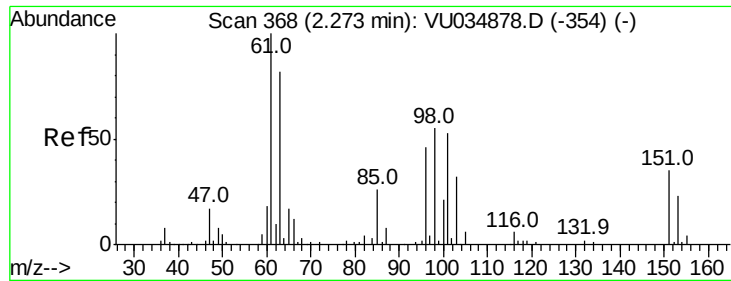
Abundance Ion 101.00 (100.70 to 101.70): VU034876.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034876.D (-233) (-)

1.88

Time-->





#10

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

Concen: 0.447 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampled :

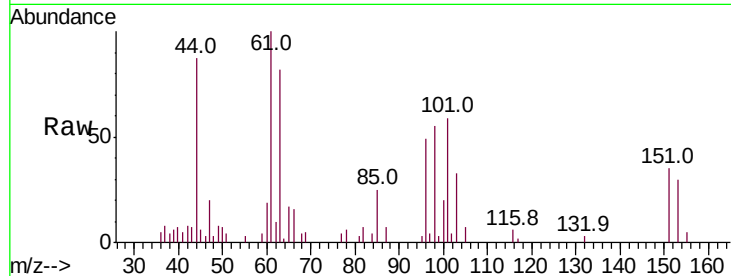
Tot Ion:101 Resp: 4921

Ion Ratio Lower Upper

101 100

85 43.2 37.3 55.9

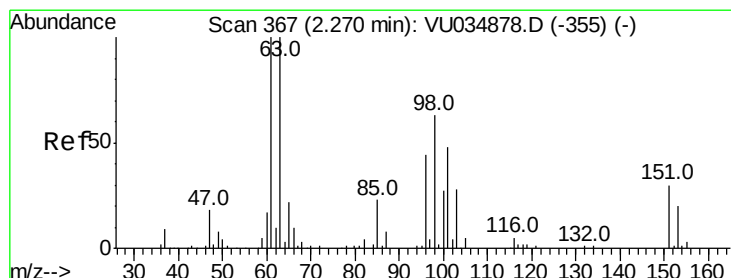
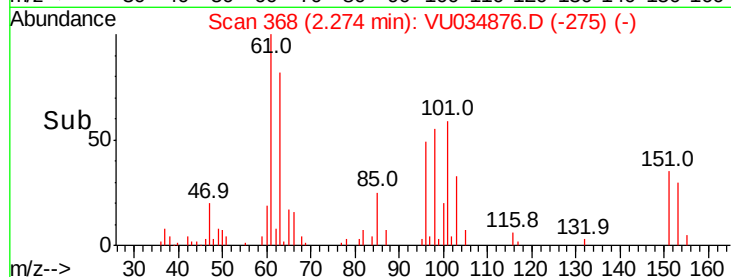
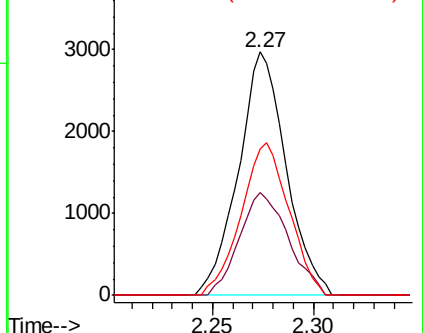
151 62.7 52.6 78.8



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: 0.393 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

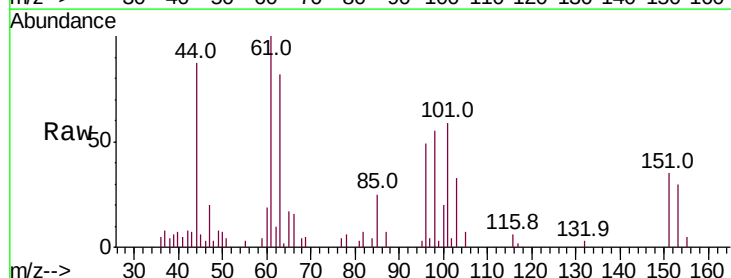
Tgt Ion: 96 Resp: 3751

Ion Ratio Lower Upper

96 100

61 204.8 160.5 298.1

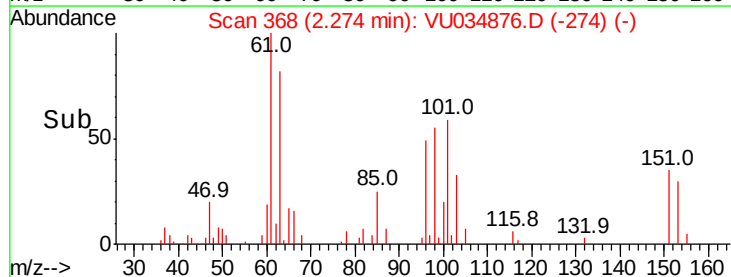
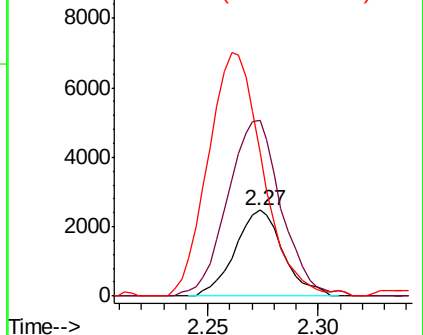
63 168.2 162.3 301.5

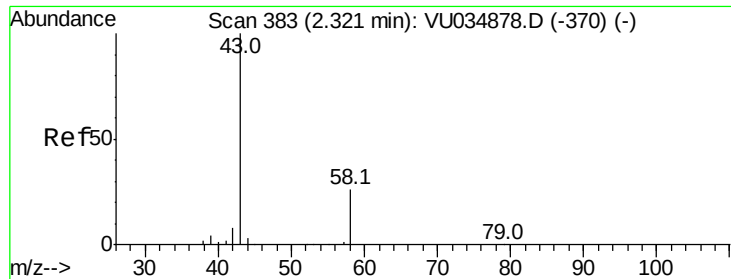


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.621 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

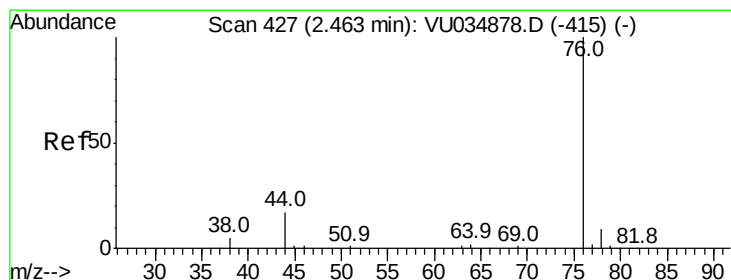
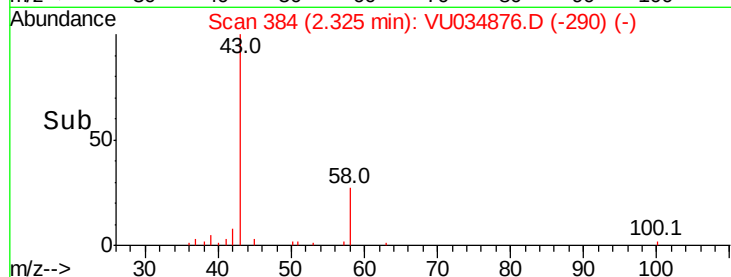
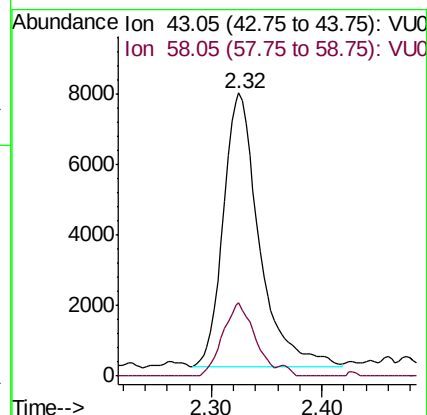
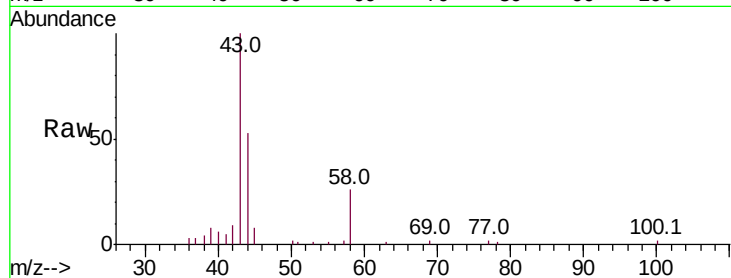
ClientSampleId :

Tot Ion: 43 Resp: 17432

Ion Ratio Lower Upper

43 100

58 23.8 0.0 54.0



#14

Carbon disulfide

Concen: 0.275 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034876.D

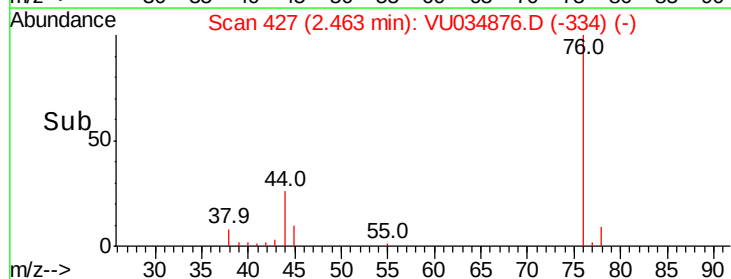
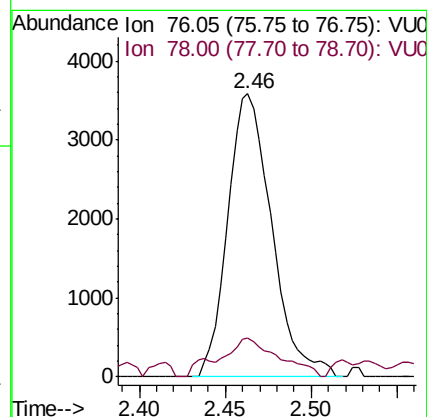
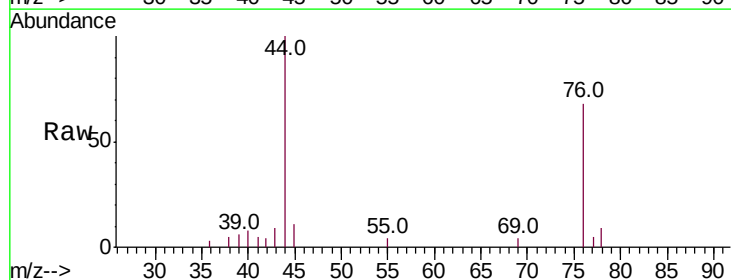
Acq: 30 Sep 2019 12:16

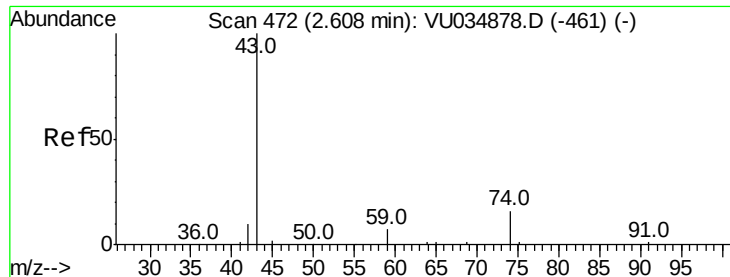
Tgt Ion: 76 Resp: 6378

Ion Ratio Lower Upper

76 100

78 13.8 7.9 11.9#





#15

Methyl Acetate

Concen: 0.455 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

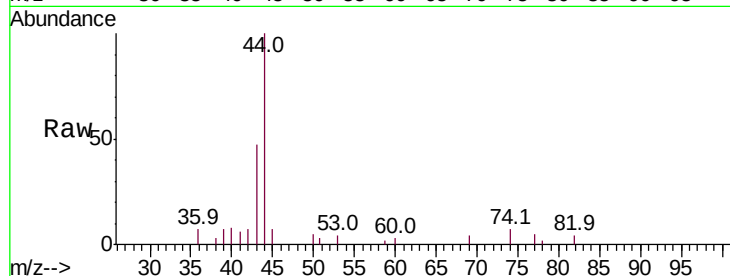
ClientSampleId :

Tot Ion: 43 Resp: 3318

Ion Ratio Lower Upper

43 100

74 11.4 15.5 23.3#



Abundance Ion 43.05 (42.75 to 43.75): VU034876.D (-461) (-)

Ion 74.05 (73.75 to 74.75): VU034876.D (-461) (-)

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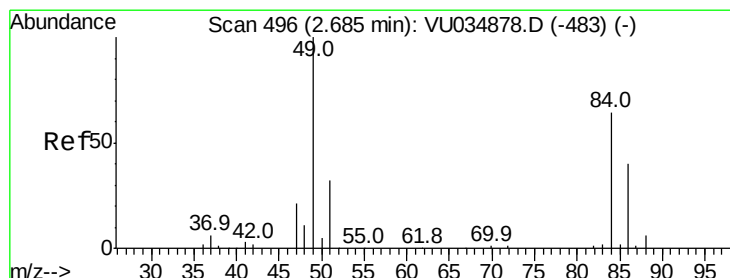
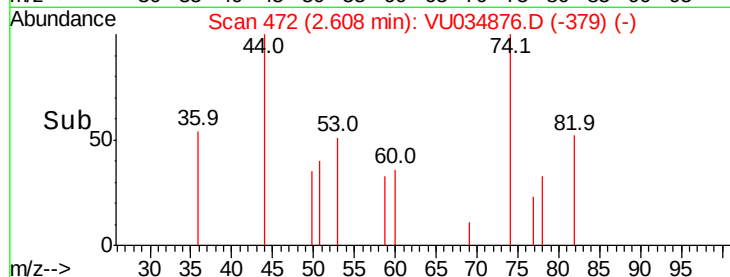
2.61

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2.61



#16

Methylene chloride

Concen: 0.581 ug/L

RT: 2.69 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

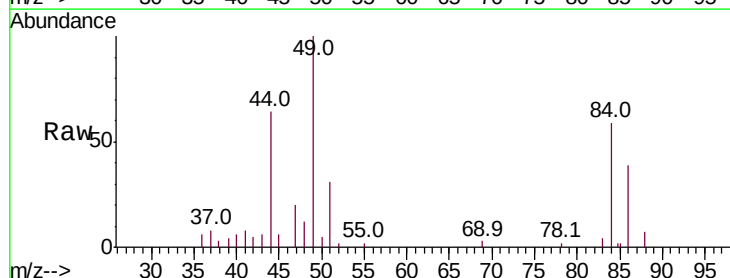
Tgt Ion: 84 Resp: 7489

Ion Ratio Lower Upper

84 100

86 65.9 44.2 82.2

49 168.6 110.0 204.4



Abundance Ion 84.05 (83.75 to 84.75): VU034876.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU034876.D (-483) (-)

Ion 49.10 (48.80 to 49.80): VU034876.D (-483) (-)

2.69

2.69

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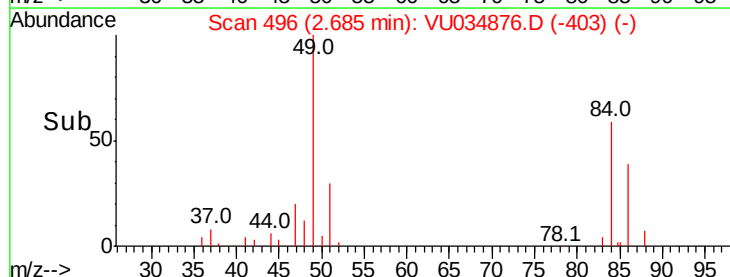
2.69

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2.69

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2.69

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2.69

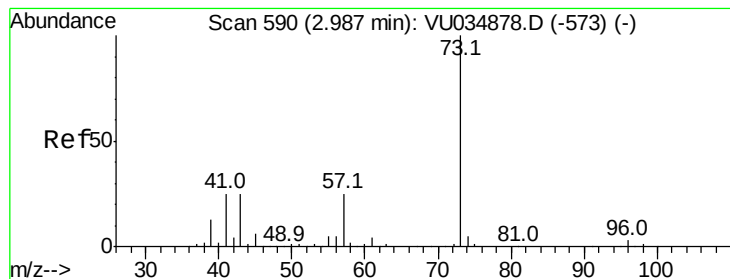
2.69

2.69

2.69

2.69

2.69

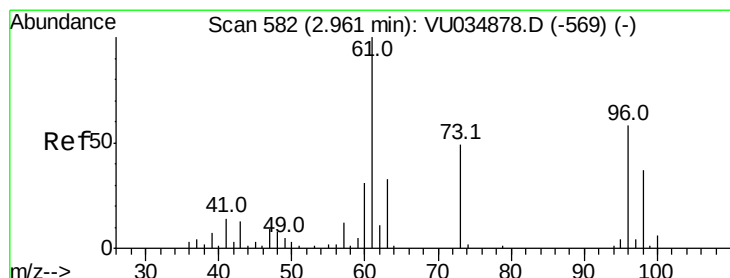
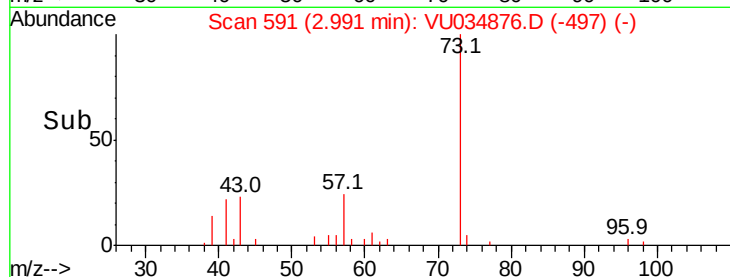
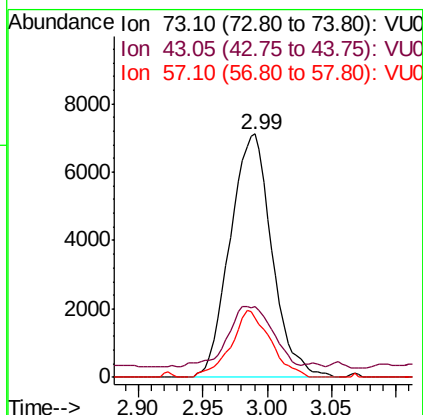
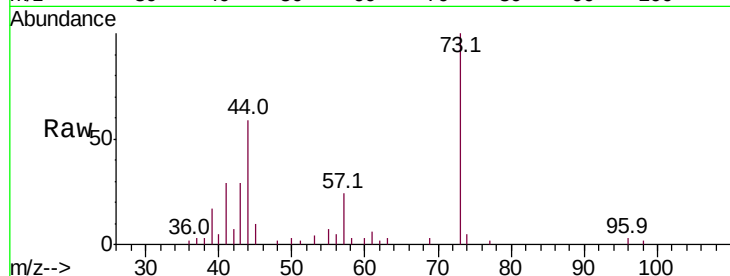


#17

Methyl tert-butyl Ether
 Concen: 0.465 ug/L
 RT: 2.99 min Scan# 591
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Instrument :
 MSVOA_U
 ClientSampled :

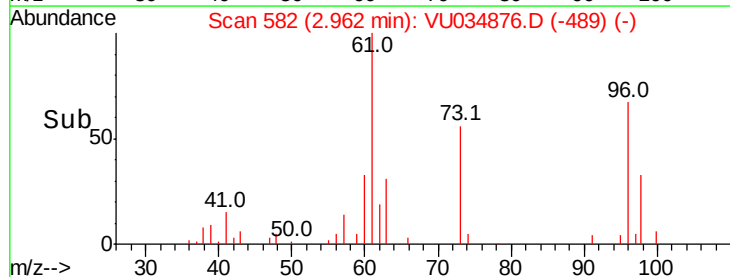
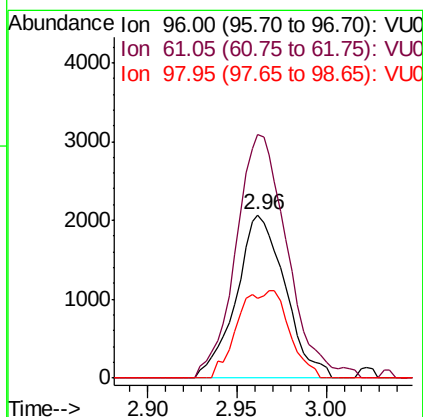
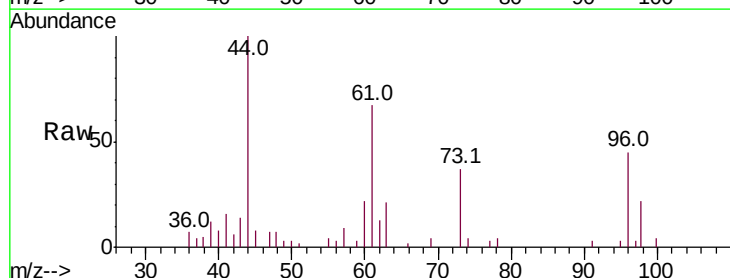
Tot Ion: 73 Resp: 16046
 Ion Ratio Lower Upper
 73 100
 43 26.4 20.8 31.2
 57 26.1 19.8 29.6

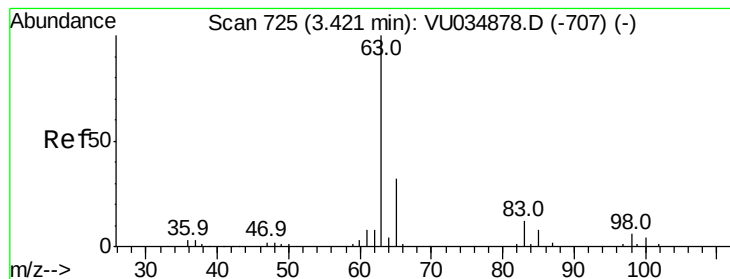


#18

trans-1,2-Dichloroethene
 Concen: 0.397 ug/L
 RT: 2.96 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Tgt Ion: 96 Resp: 3949
 Ion Ratio Lower Upper
 96 100
 61 149.3 121.0 224.8
 98 49.2 44.7 83.1





#19

1,1-Dichloroethane

Concen: 0.471 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampleId :

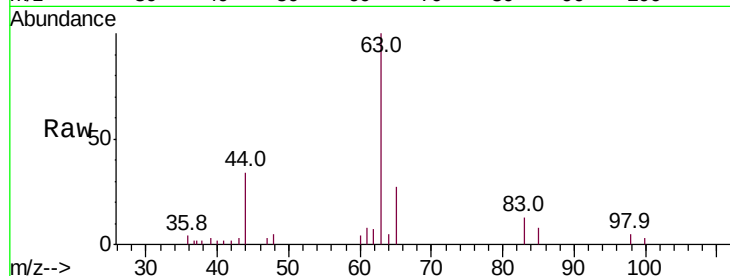
Tot Ion: 63 Resp: 11730

Ion Ratio Lower Upper

63 100

65 27.2 22.7 42.1

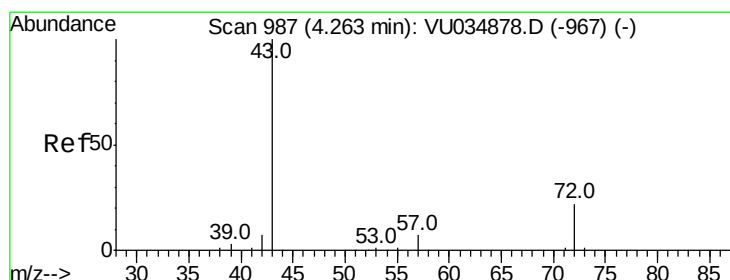
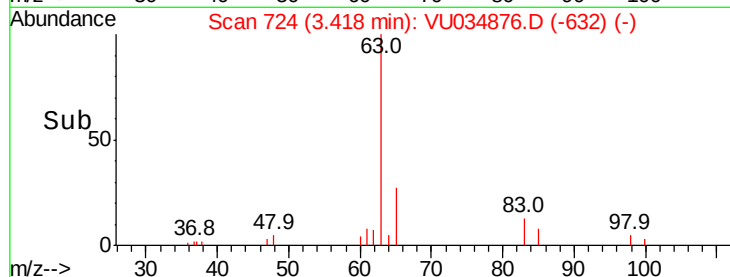
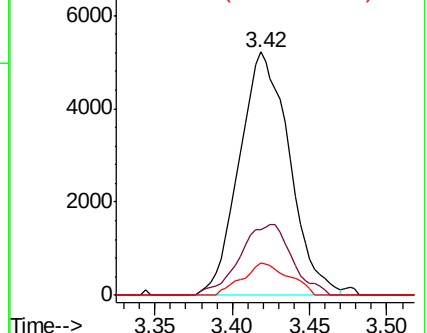
83 13.2 8.4 15.6



Abundance Ion 63.10 (62.80 to 63.80): VU034878.D (-707) (-)

Ion 65.10 (64.80 to 65.80): VU034878.D (-707) (-)

Ion 83.05 (82.75 to 83.75): VU034878.D (-707) (-)



#21

2-Butanone

Concen: 4.936 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.01 min

Lab File: VU034876.D

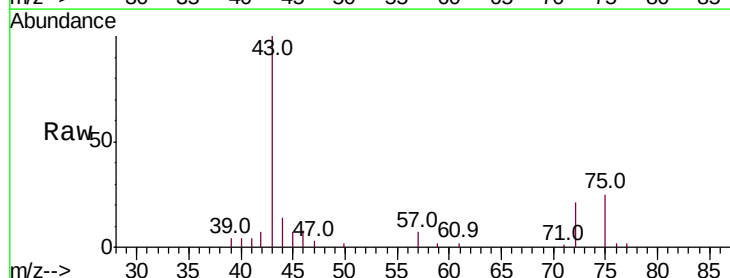
Acq: 30 Sep 2019 12:16

Tgt Ion: 43 Resp: 22026

Ion Ratio Lower Upper

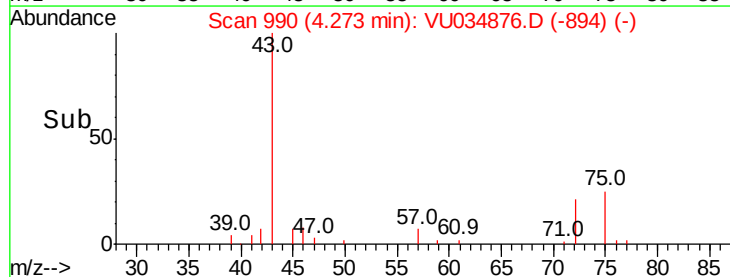
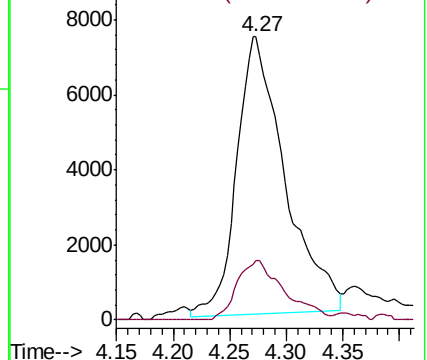
43 100

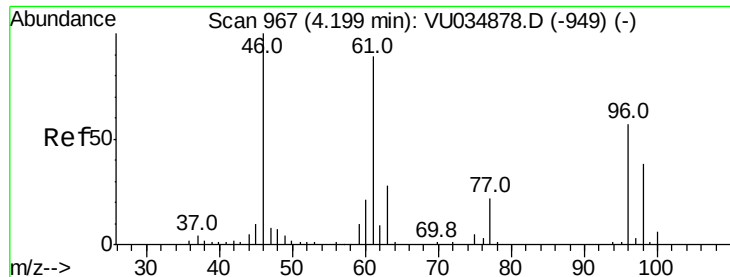
72 21.1 10.1 30.1



Abundance Ion 43.05 (42.75 to 43.75): VU034878.D (-967) (-)

Ion 72.10 (71.80 to 72.80): VU034878.D (-967) (-)



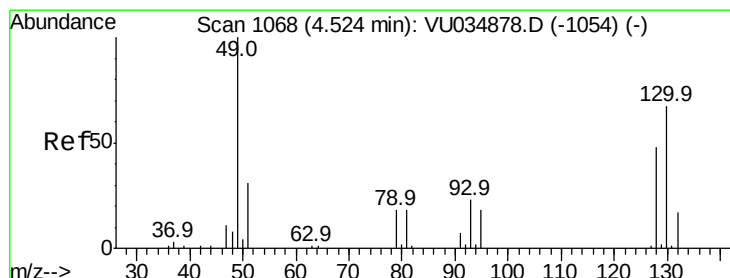
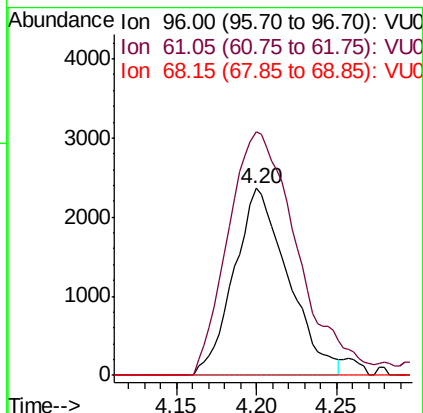
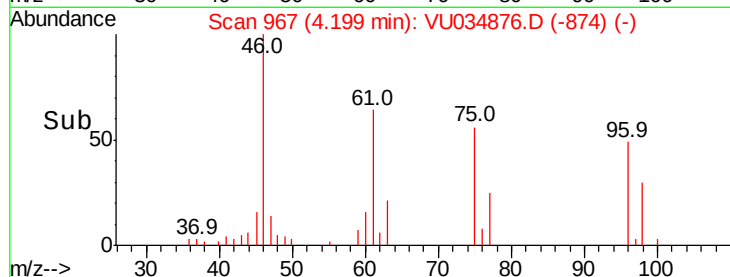
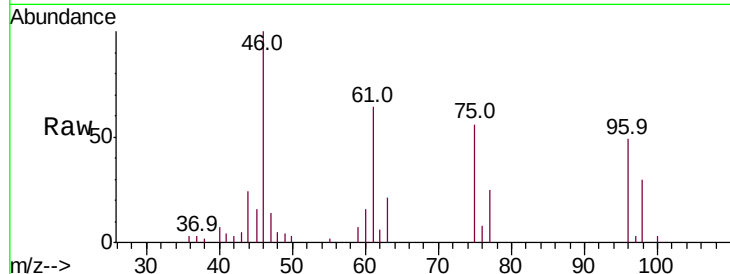


#22

cis-1,2-Dichloroethene
Concen: 0.404 ug/L
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Instrument :
MSVOA_U
ClientSampled :

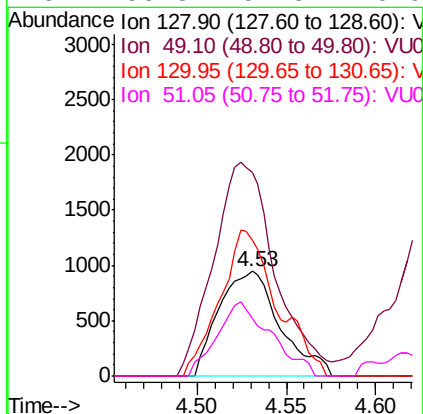
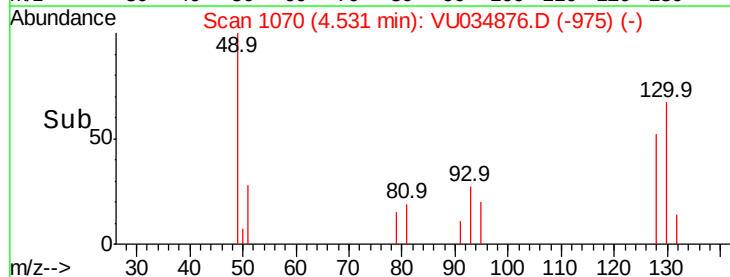
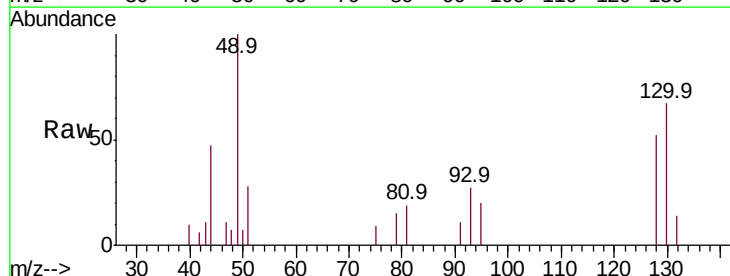
Tot Ion: 96 Resp: 5471
Ion Ratio Lower Upper
96 100
61 130.4 108.6 201.8
68 0.0 0.0 0.0

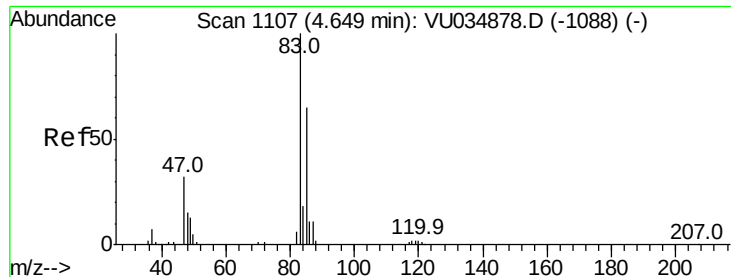


#23

Bromochloromethane
Concen: 0.452 ug/L
RT: 4.53 min Scan# 1070
Delta R.T. 0.01 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Tgt Ion: 128 Resp: 2262
Ion Ratio Lower Upper
128 100
49 194.0 146.5 272.1
130 129.4 97.2 180.4
51 55.3 51.3 76.9

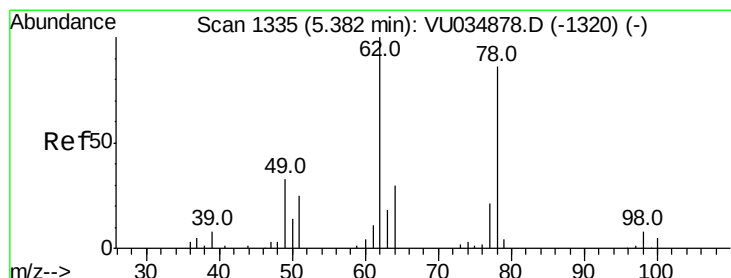
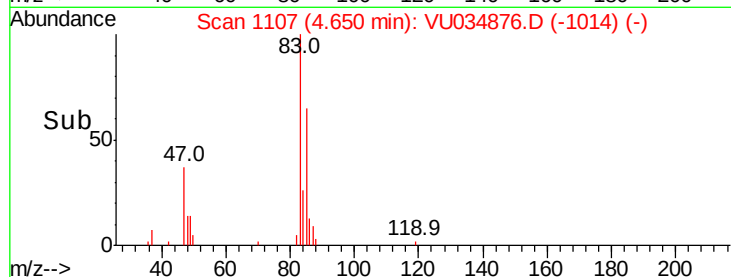
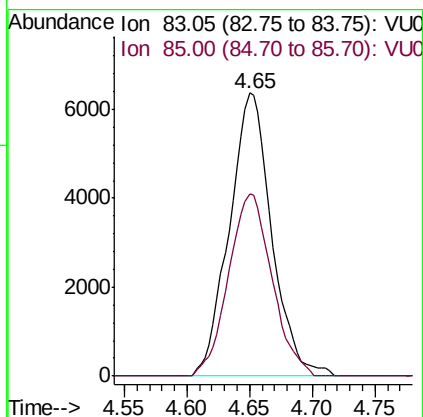
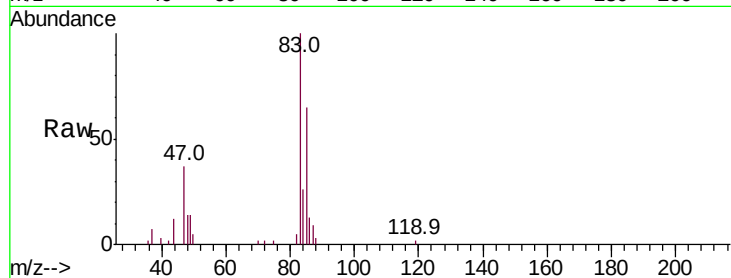




#25
Chloroform
Concen: 0.527 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

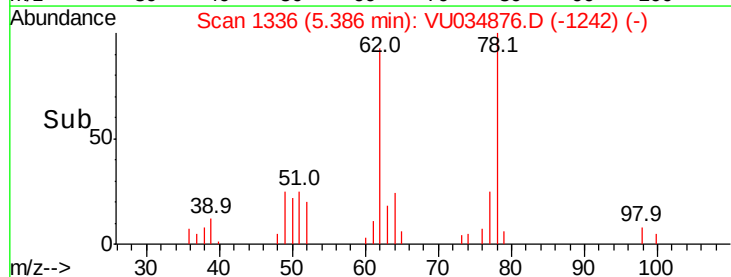
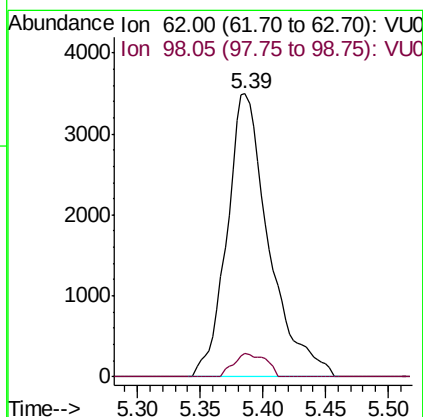
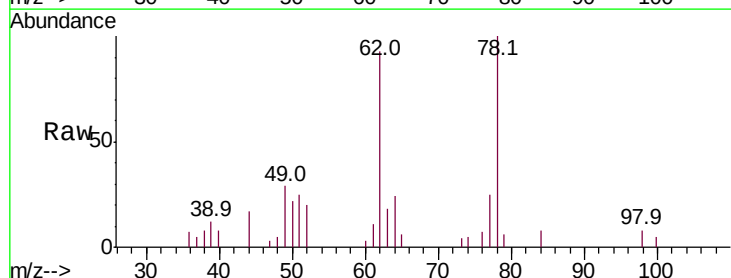
Instrument :
MSVOA_U
ClientSampleId :

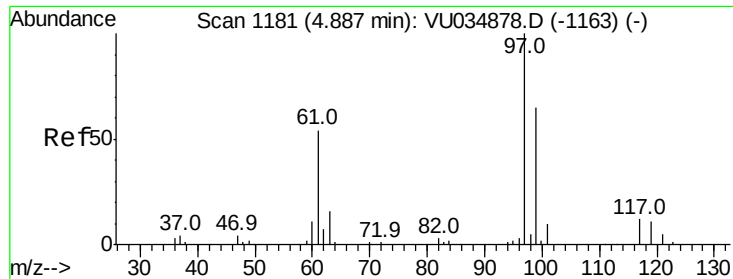
Tot Ion: 83 Resp: 14917
Ion Ratio Lower Upper
83 100
85 64.6 45.2 84.0



#27
1,2-Dichloroethane
Concen: 0.499 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Tgt Ion: 62 Resp: 8115
Ion Ratio Lower Upper
62 100
98 8.4 6.2 9.4

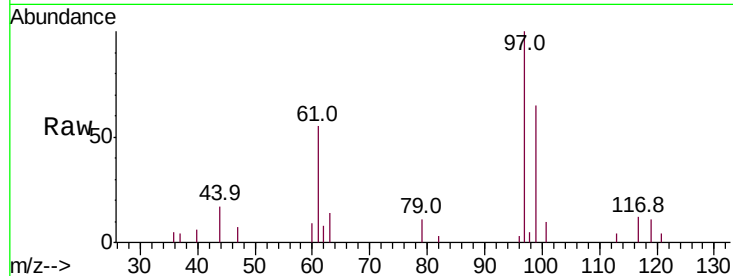




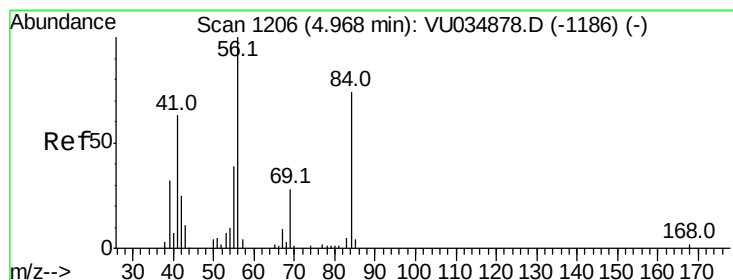
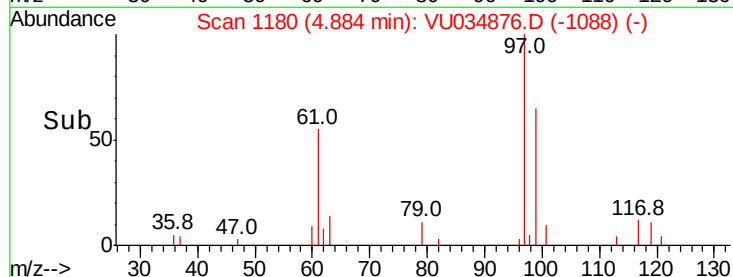
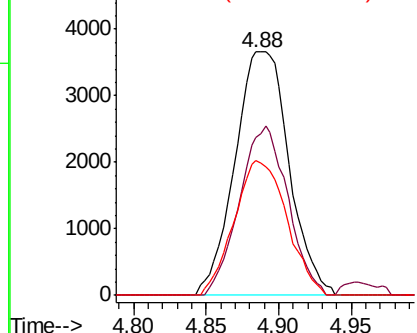
#29
 1,1,1-Trichloroethane
 Concen: 0.469 ug/L
 RT: 4.88 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 9501
 Ion Ratio Lower Upper
 97 100
 99 62.1 52.2 78.4
 61 53.8 41.4 62.2

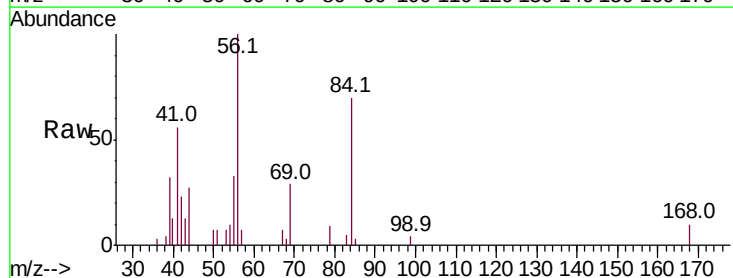


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

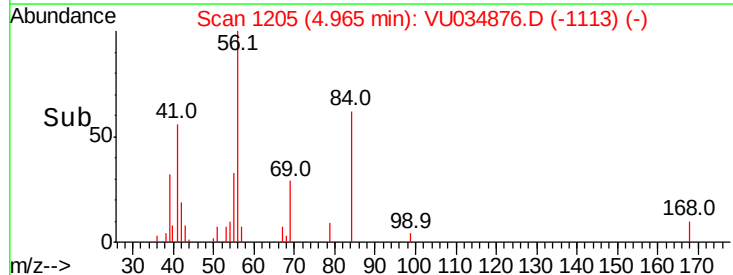
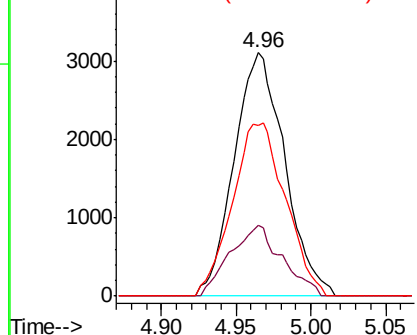


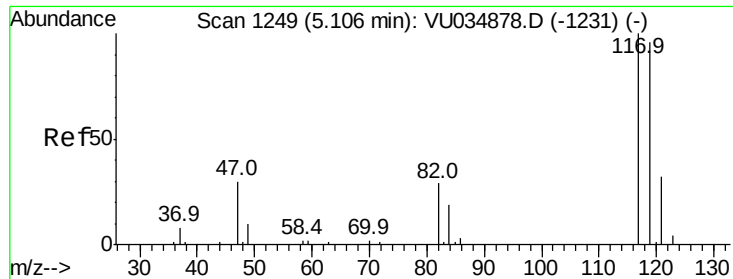
#30
 Cyclohexane
 Concen: 0.362 ug/L
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Tgt Ion: 56 Resp: 7310
 Ion Ratio Lower Upper
 56 100
 69 29.8 22.6 34.0
 84 74.5 63.4 95.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.436 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

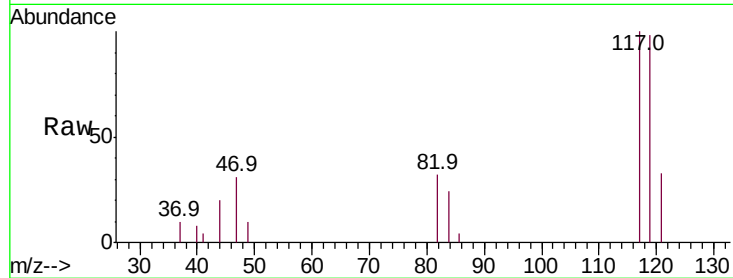
ClientSampleId :

Tot Ion:117 Resp: 7141

Ion Ratio Lower Upper

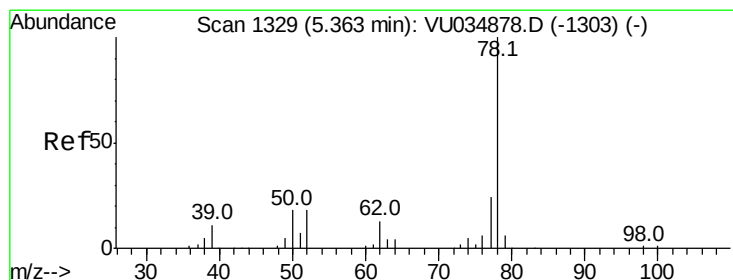
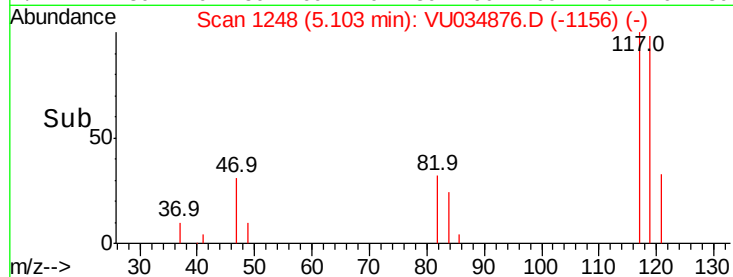
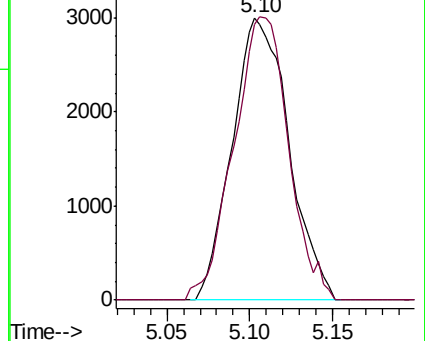
117 100

119 97.1 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.392 ug/L

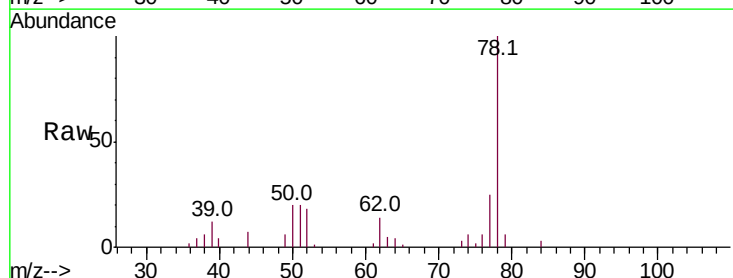
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

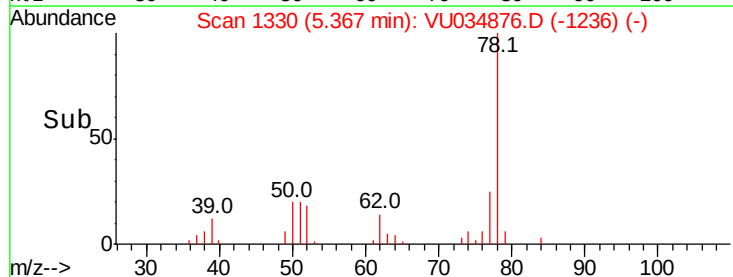
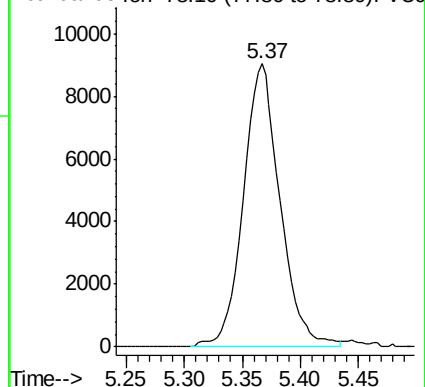
Lab File: VU034876.D

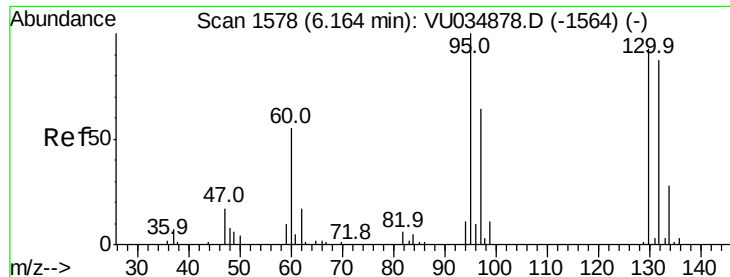
Acq: 30 Sep 2019 12:16

Tgt Ion: 78 Resp: 19904



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.447 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 5692

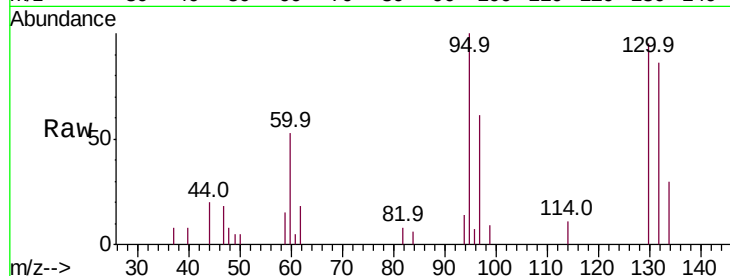
Ion Ratio Lower Upper

95 100

97 60.9 45.1 83.7

132 86.3 61.2 113.8

130 95.1 65.1 120.9

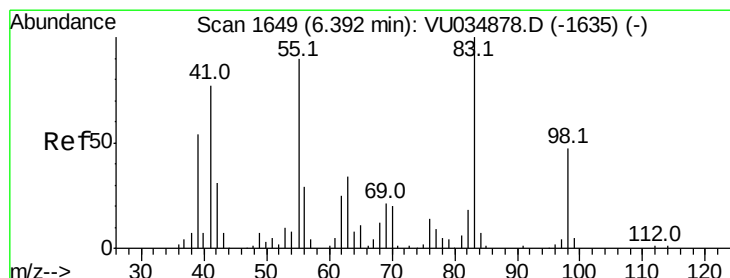
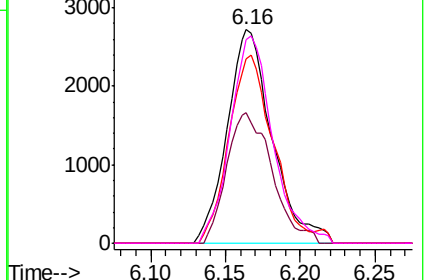
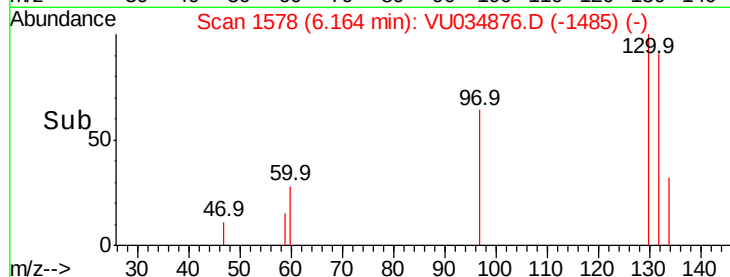


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.334 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

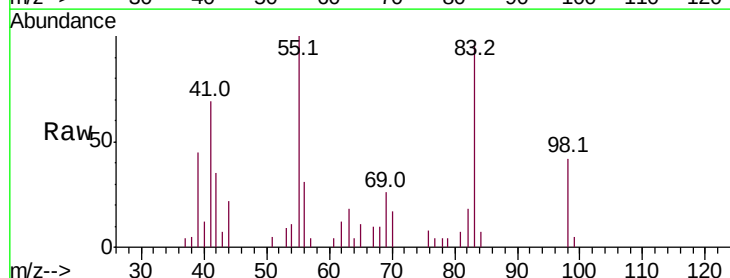
Tgt Ion: 83 Resp: 6637

Ion Ratio Lower Upper

83 100

55 99.9 68.9 103.3

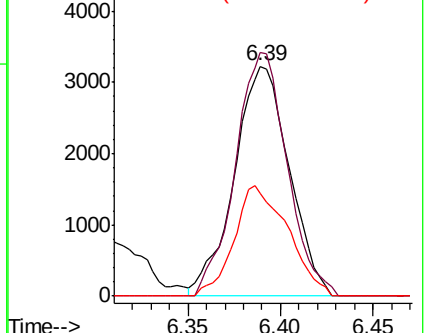
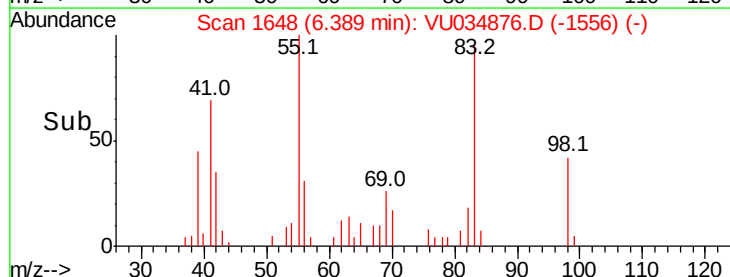
98 46.8 36.6 54.8

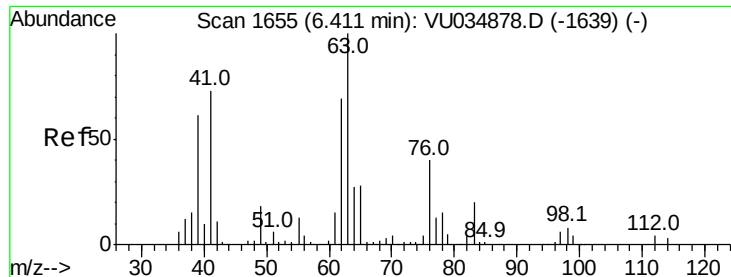


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

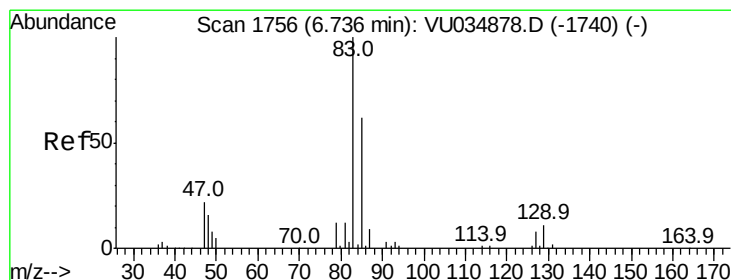
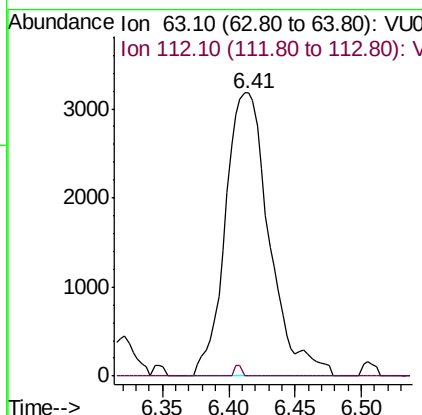
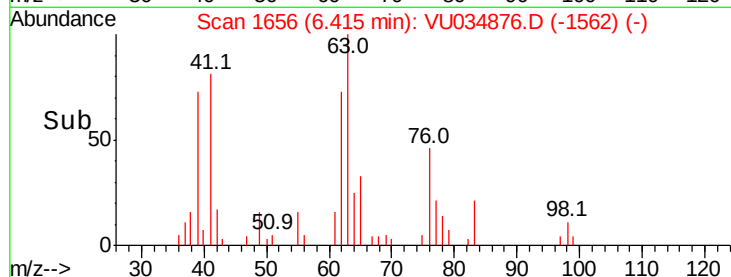
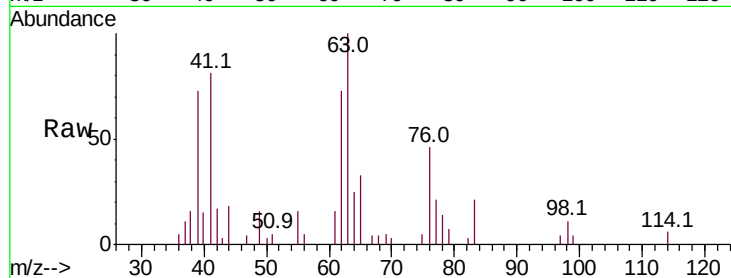




#37
 1,2-Dichloropropane
 Concen: 0.459 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

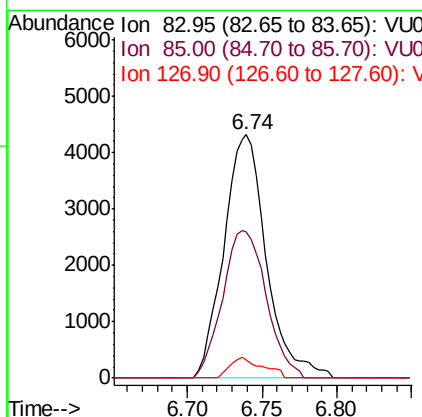
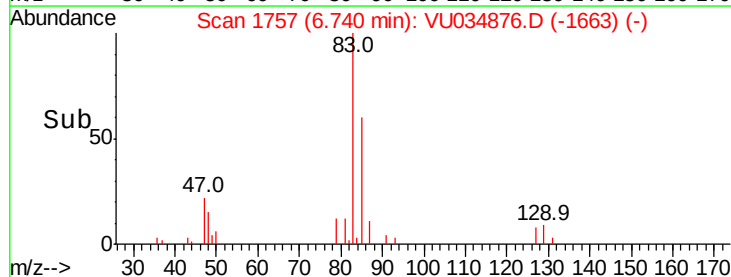
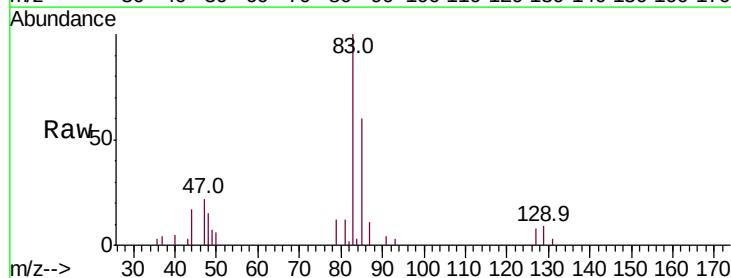
Instrument :
 MSVOA_U
 ClientSampleId :

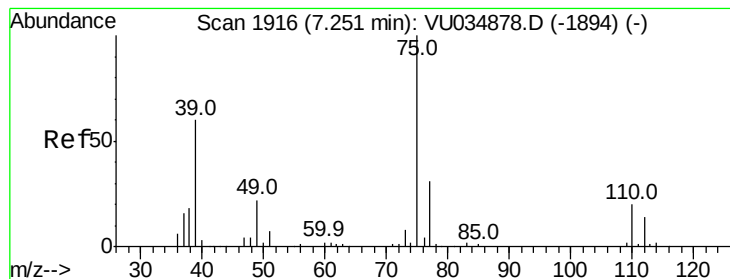
Tot Ion: 63 Resp: 7323
 Ion Ratio Lower Upper
 63 100
 112 0.6 2.6 4.0#



#38
 Bromodichloromethane
 Concen: 0.443 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Tgt Ion: 83 Resp: 8557
 Ion Ratio Lower Upper
 83 100
 85 60.2 43.5 80.7
 127 7.5 6.2 9.4



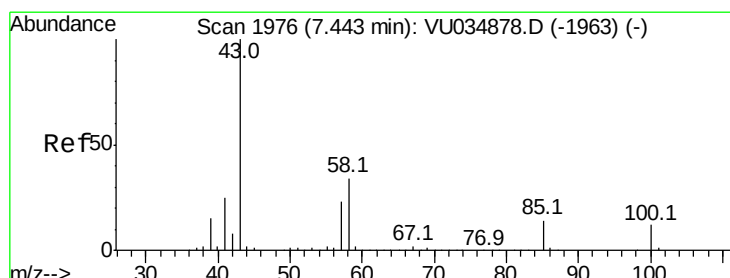
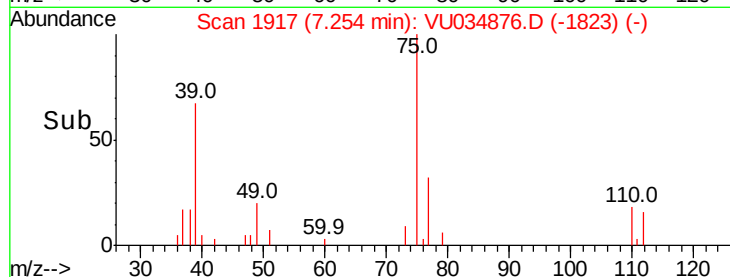
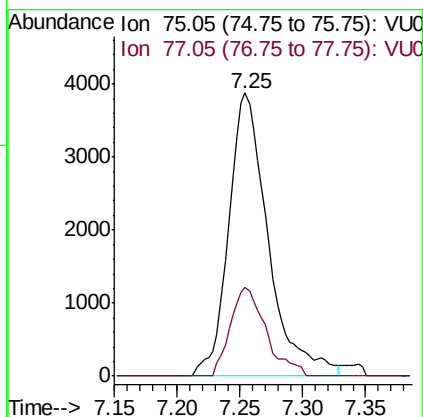
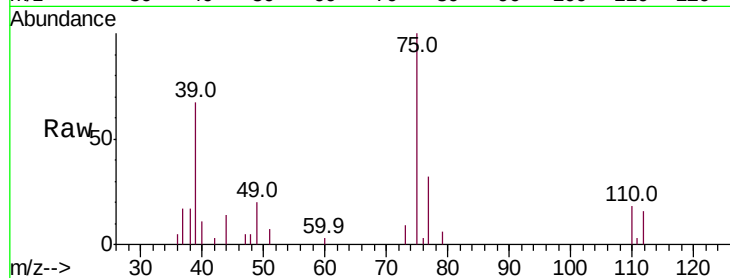


#39

cis-1,3-Dichloropropene
Concen: 0.384 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Instrument :
MSVOA_U
ClientSampleId :

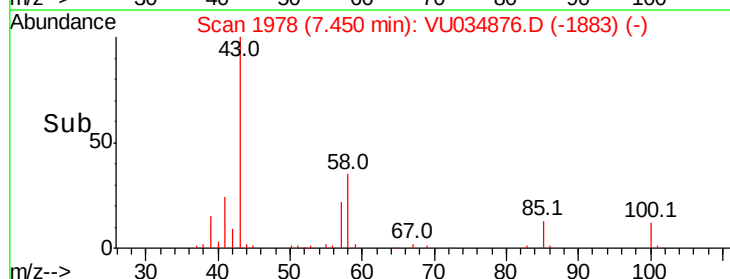
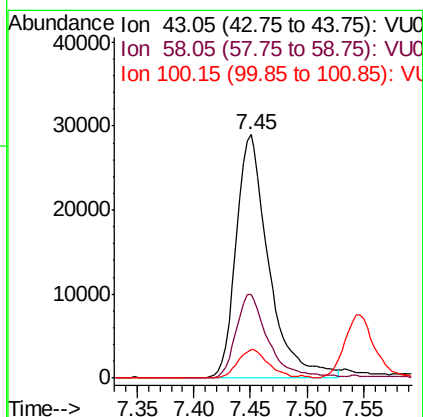
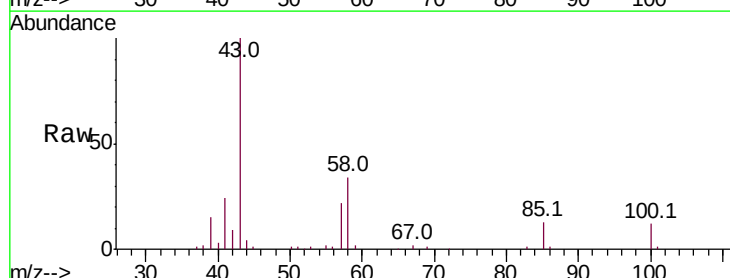
Tot Ion: 75 Resp: 8493
Ion Ratio Lower Upper
75 100
77 31.6 21.9 40.7

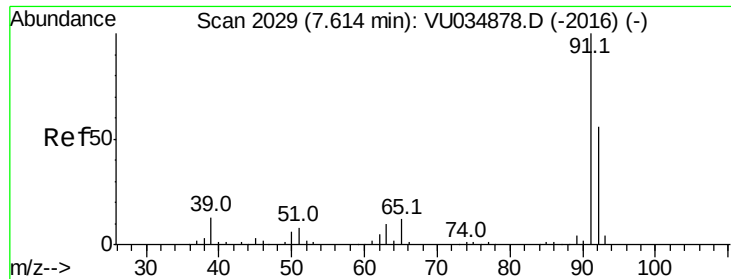


#40

4-Methyl-2-pentanone
Concen: 4.751 ug/L
RT: 7.45 min Scan# 1978
Delta R.T. 0.01 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Tgt Ion: 43 Resp: 58380
Ion Ratio Lower Upper
43 100
58 34.0 27.0 40.6
100 11.0 9.2 13.8





#42

Toluene

Concen: 0.403 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

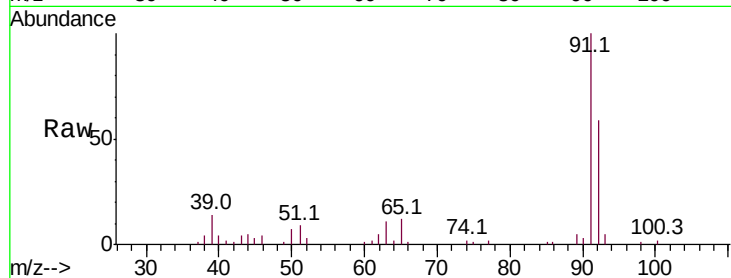
ClientSampleId :

Tot Ion: 91 Resp: 22203

Ion Ratio Lower Upper

91 100

92 58.8 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU034878.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU034878.D (-2016) (-)

7.62

12000

10000

8000

6000

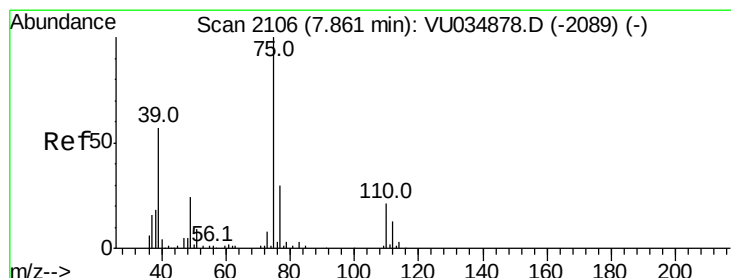
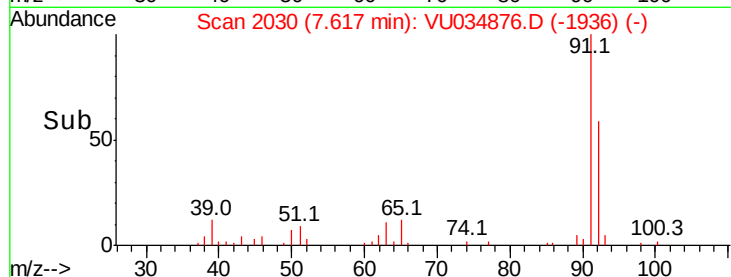
4000

2000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.383 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU034876.D

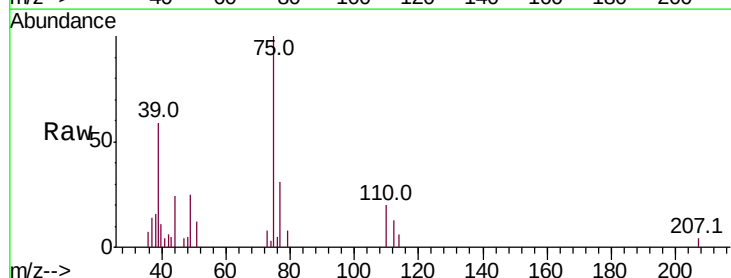
Acq: 30 Sep 2019 12:16

Tgt Ion: 75 Resp: 6923

Ion Ratio Lower Upper

75 100

77 30.5 21.2 39.4



Abundance Ion 75.05 (74.75 to 75.75): VU034878.D (-2089) (-)

Ion 77.05 (76.75 to 77.75): VU034878.D (-2089) (-)

7.87

3000

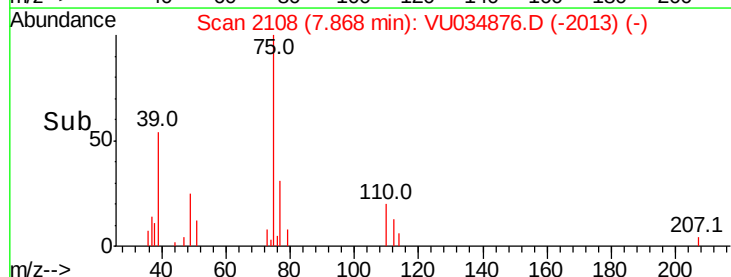
2000

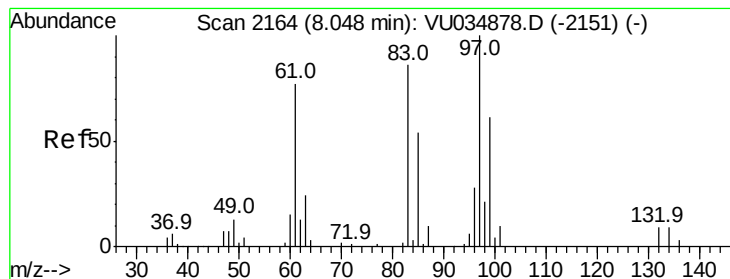
1000

0

7.80 7.85 7.90 7.95

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.453 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 4684

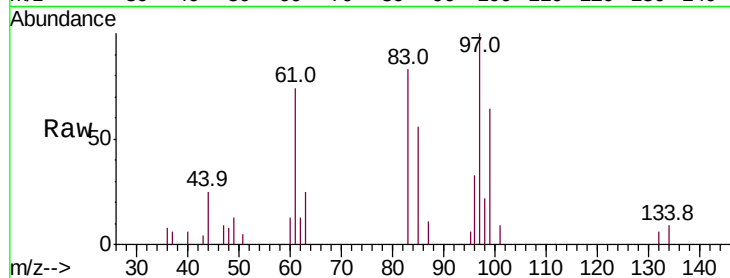
Ion Ratio Lower Upper

97 100

99 64.2 42.6 79.0

83 82.9 60.1 111.7

85 56.1 38.0 70.6

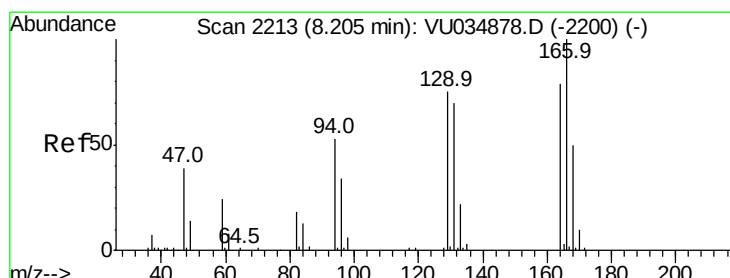
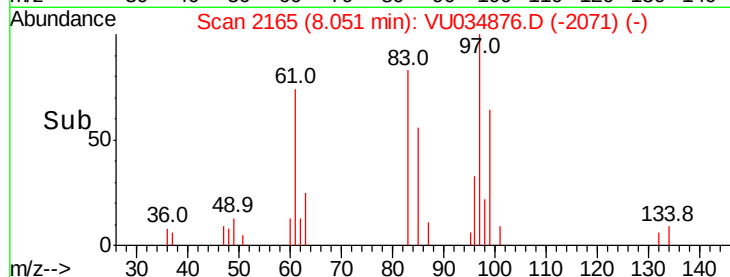
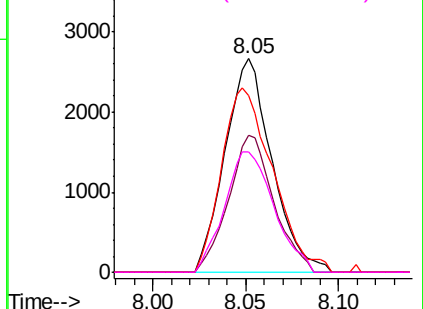


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.456 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Tgt Ion: 164 Resp: 3583

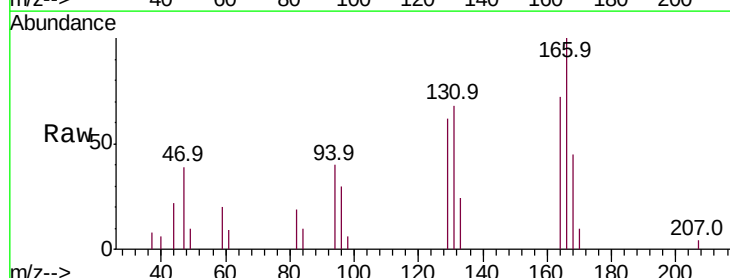
Ion Ratio Lower Upper

164 100

129 86.2 66.3 123.1

131 94.4 62.2 115.4

166 139.4 88.4 164.2

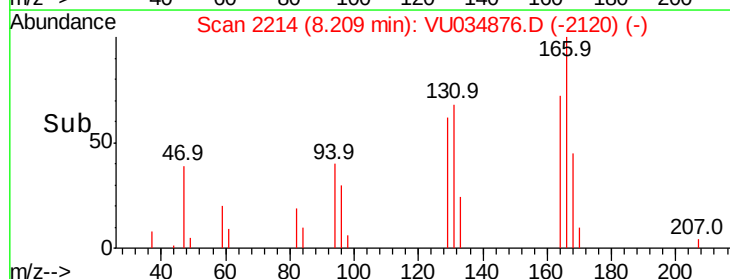
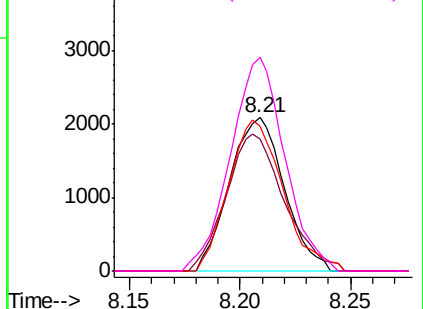


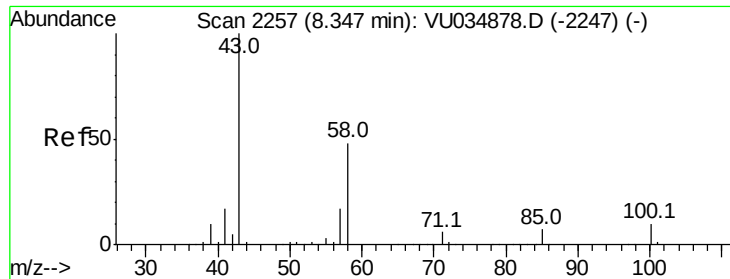
Abundance Ion 163.90 (163.60 to 164.60): V

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

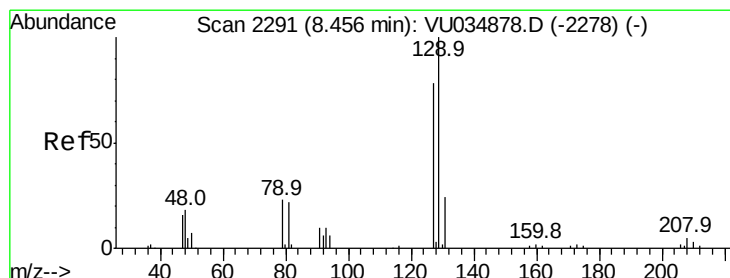
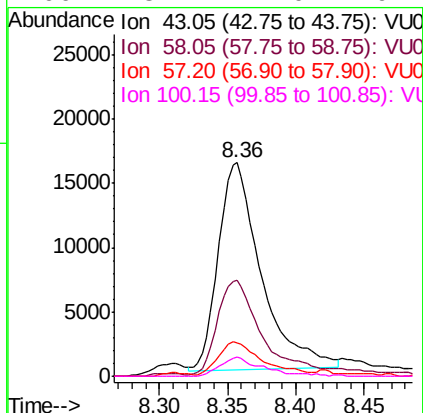
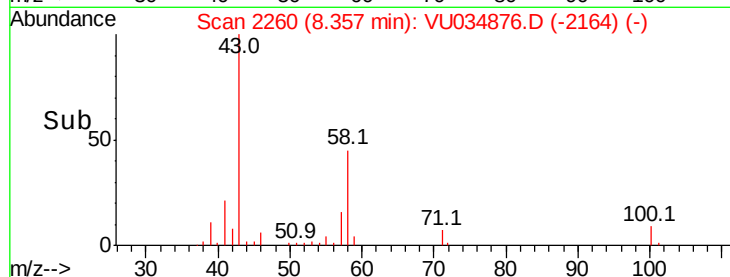
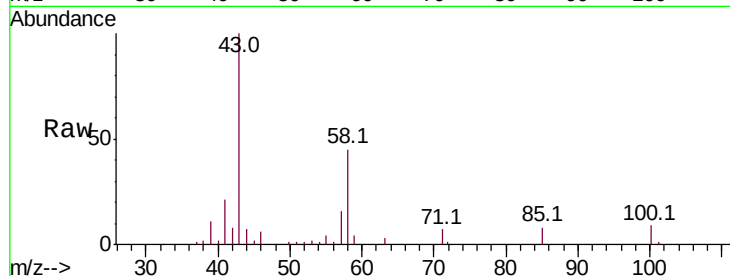




#48
2-Hexanone
Concen: 4.273 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.01 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

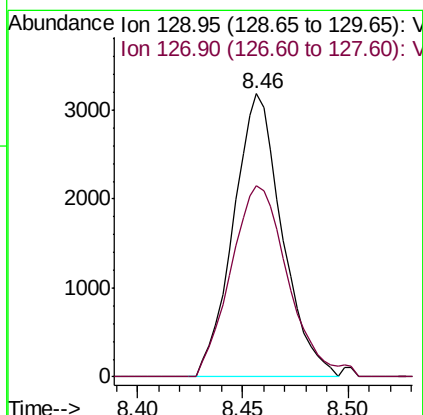
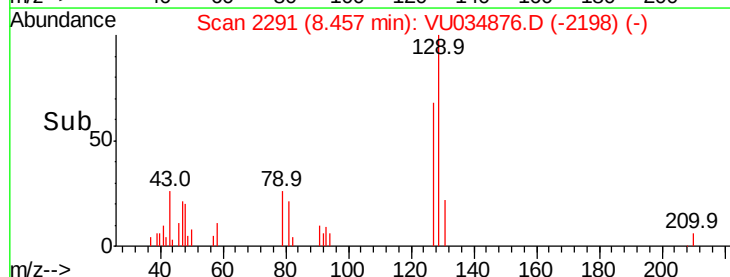
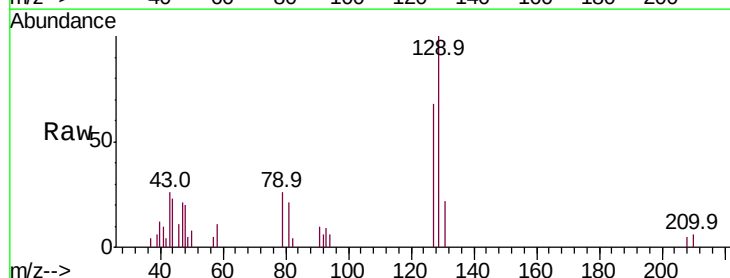
Instrument :
MSVOA_U
ClientSampled :

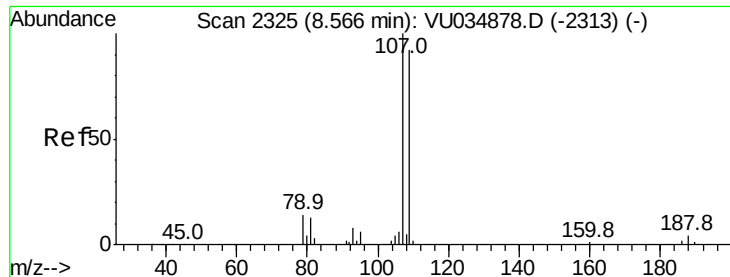
Tot Ion: 43 Resp: 35449
Ion Ratio Lower Upper
43 100
58 45.8 37.1 55.7
57 16.3 13.4 20.0
100 8.2 7.0 10.4



#49
Dibromochloromethane
Concen: 0.422 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Tgt Ion: 129 Resp: 5101
Ion Ratio Lower Upper
129 100
127 67.5 54.3 100.9





#50

1,2-Dibromoethane

Concen: 0.426 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.01 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampled :

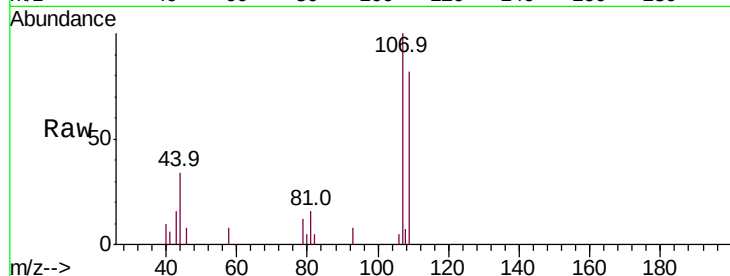
Tot Ion:107 Resp: 3905

Ion Ratio Lower Upper

107 100

109 82.1 64.6 120.0

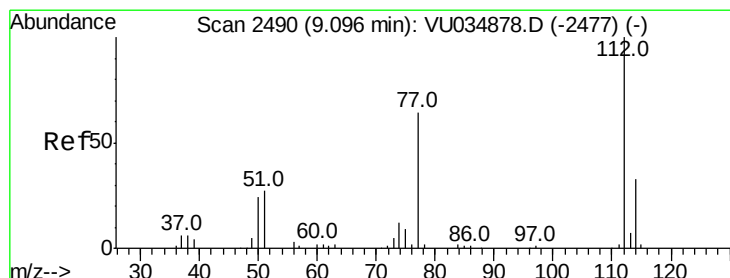
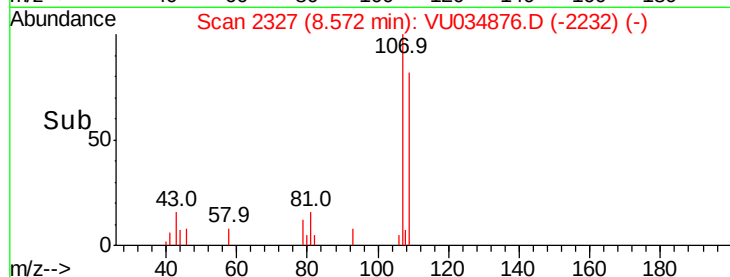
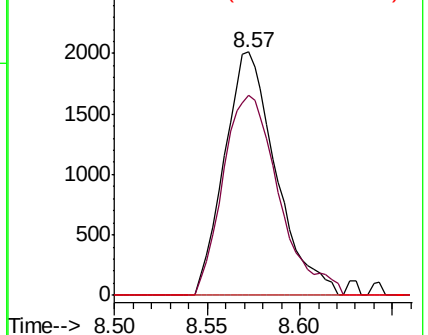
188 0.0 2.9 4.3#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 0.443 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

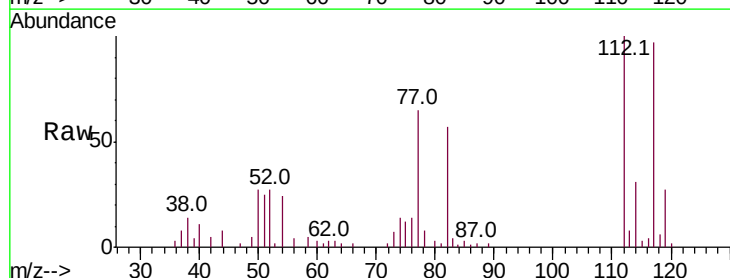
Tgt Ion:112 Resp: 15348

Ion Ratio Lower Upper

112 100

114 30.8 22.7 42.3

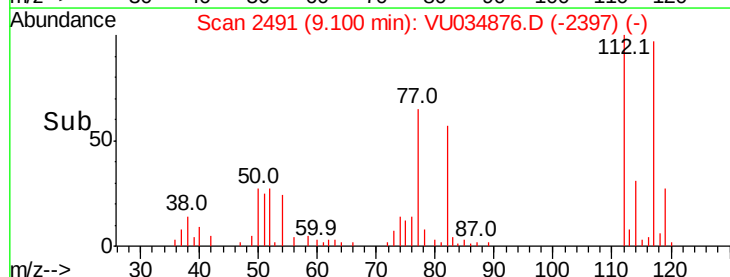
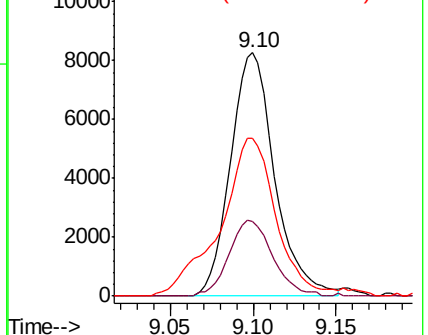
77 65.0 51.5 77.3

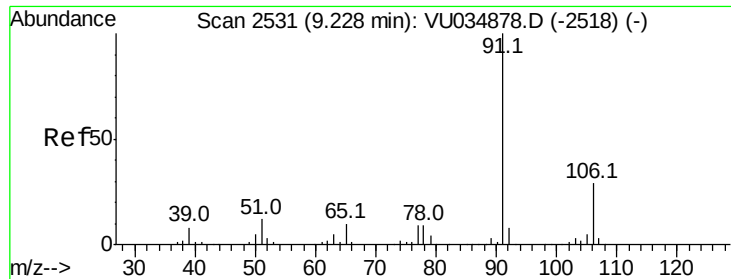


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.399 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

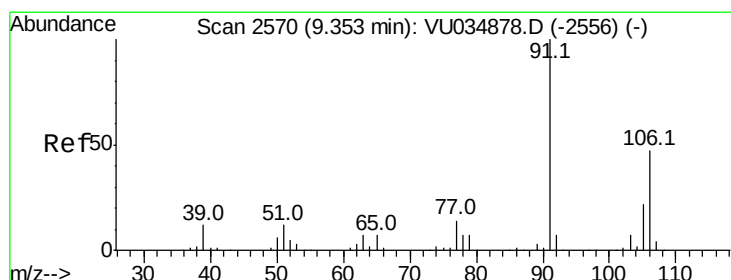
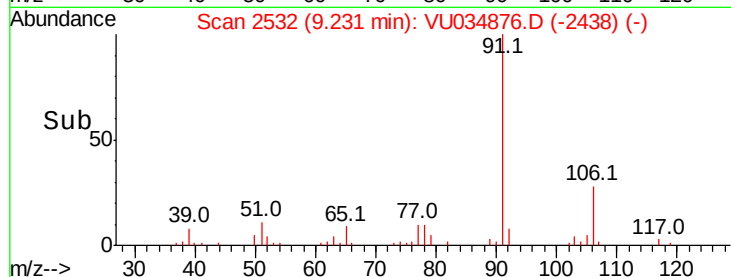
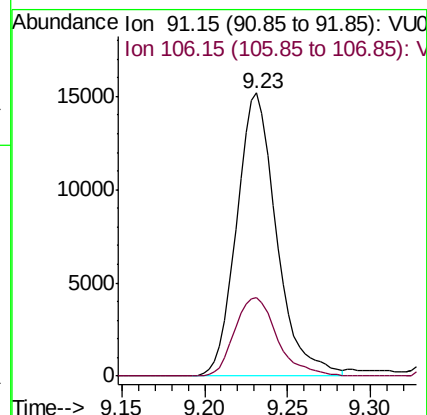
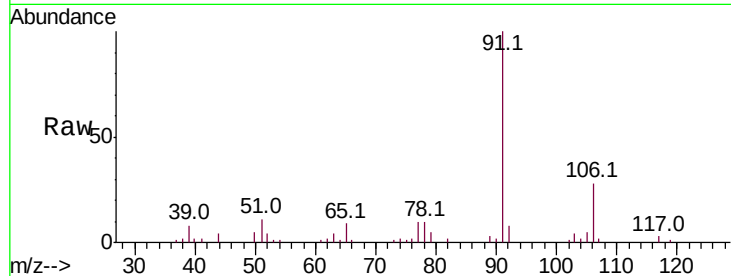
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 25445

Ion Ratio Lower Upper

91 100

106 27.7 20.2 37.4



#53

m,p-Xylene

Concen: 0.394 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034876.D

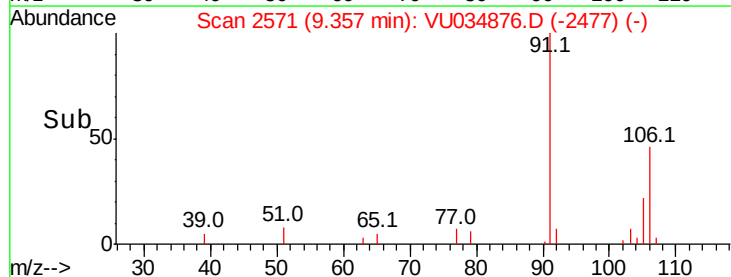
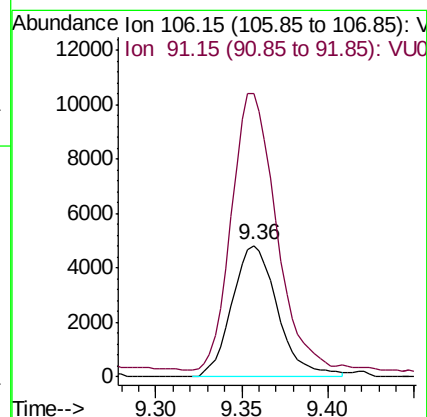
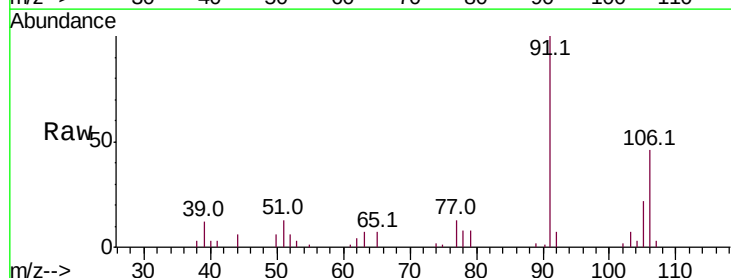
Acq: 30 Sep 2019 12:16

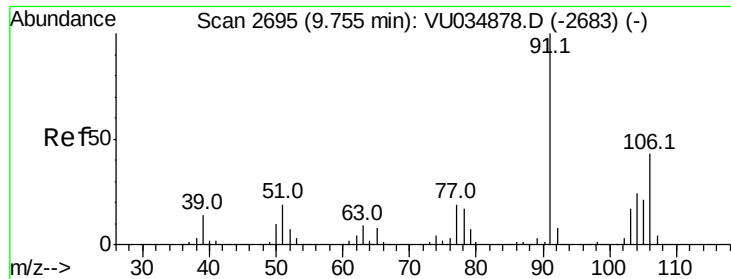
Tgt Ion: 106 Resp: 8883

Ion Ratio Lower Upper

106 100

91 215.8 149.4 277.5

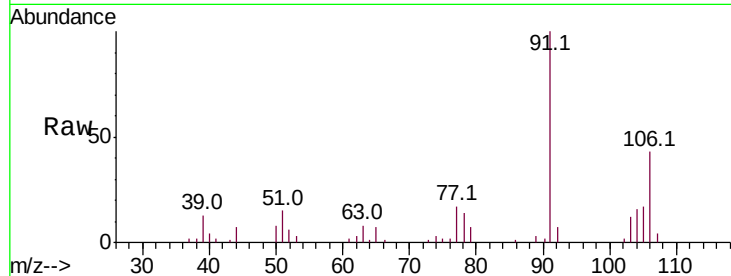




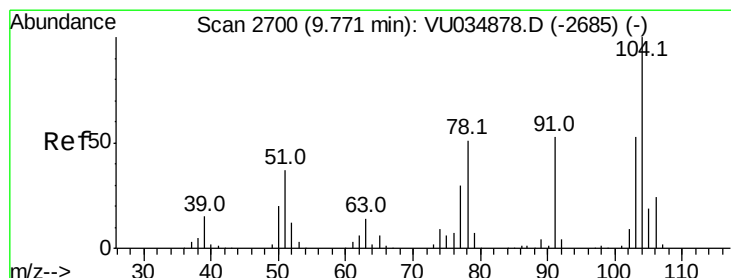
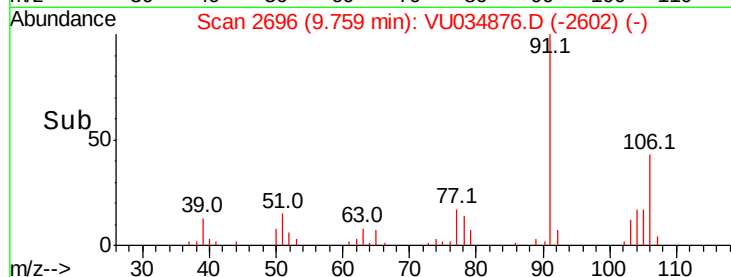
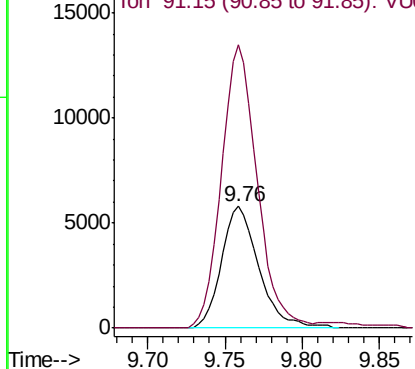
#54
o-Xylene
Concen: 0.425 ug/L
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 9681
Ion Ratio Lower Upper
106 100
91 233.0 161.4 299.8

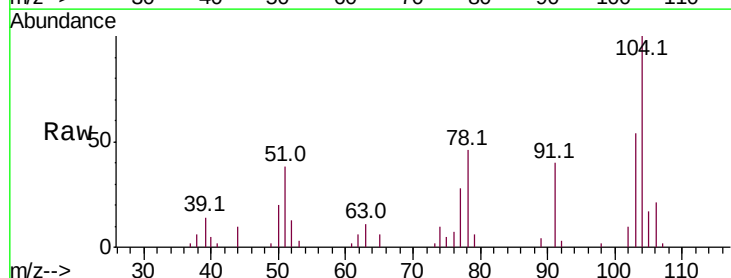


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

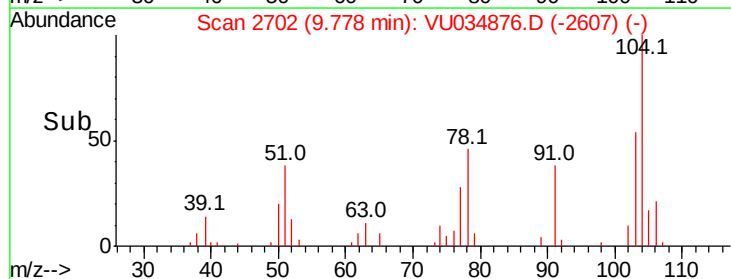
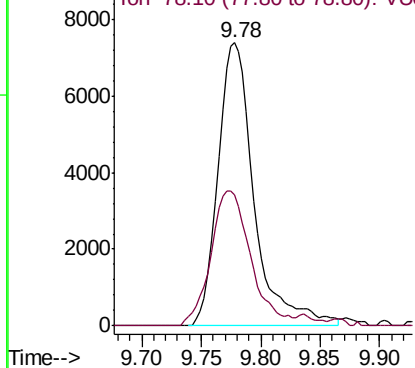


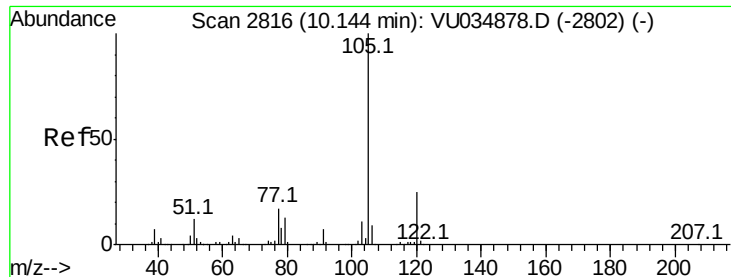
#55
Styrene
Concen: 0.411 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.01 min
Lab File: VU034876.D
Acq: 30 Sep 2019 12:16

Tgt Ion:104 Resp: 15602
Ion Ratio Lower Upper
104 100
78 46.3 35.4 65.7



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





#56

Isopropylbenzene

Concen: 0.442 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampleId :

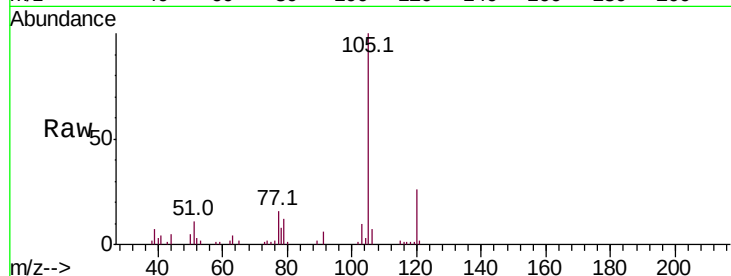
Tot Ion:105 Resp: 28138

Ion Ratio Lower Upper

105 100

120 24.7 20.2 30.4

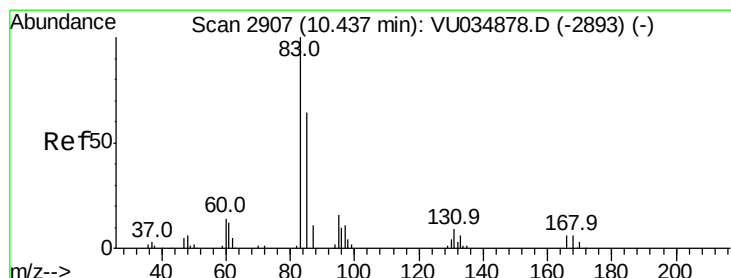
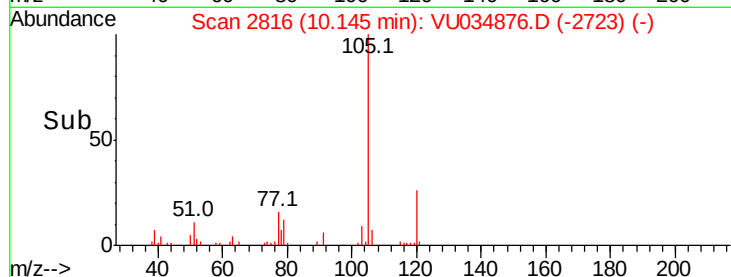
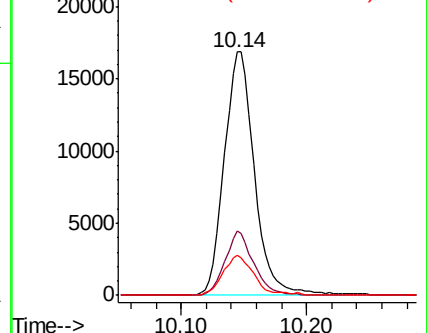
77 16.6 13.8 20.6



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



#58

1,1,2,2-Tetrachloroethane

Concen: 0.464 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

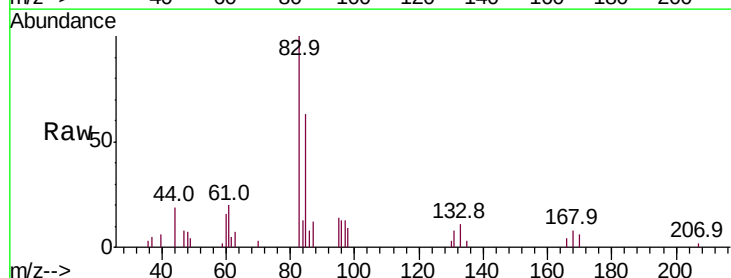
Tgt Ion: 83 Resp: 6994

Ion Ratio Lower Upper

83 100

85 62.6 45.2 84.0

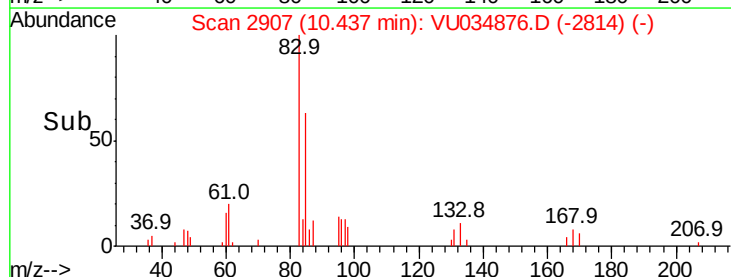
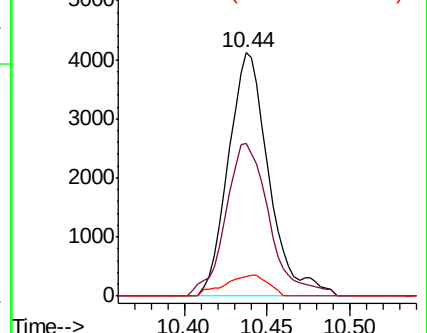
131 8.0 7.6 11.4

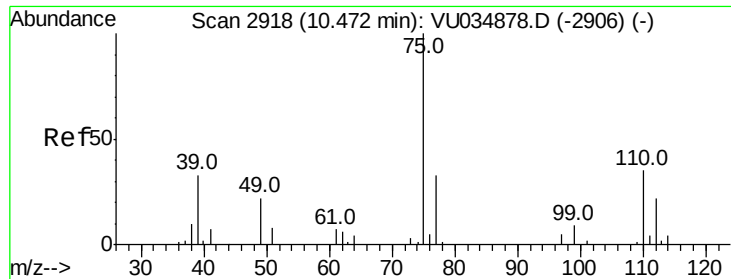


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V

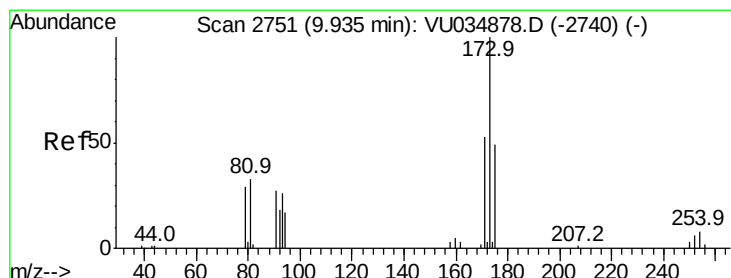
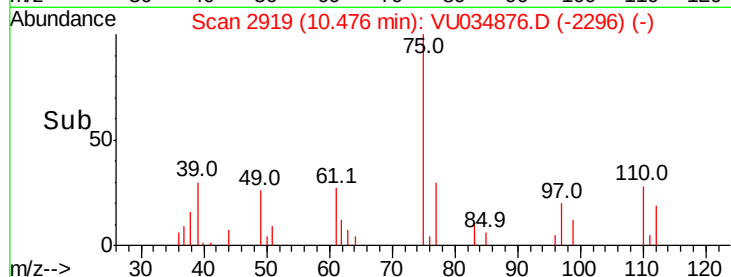
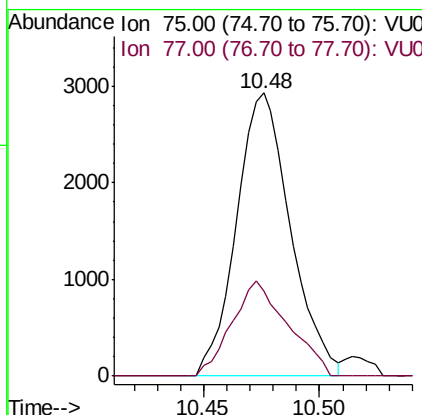
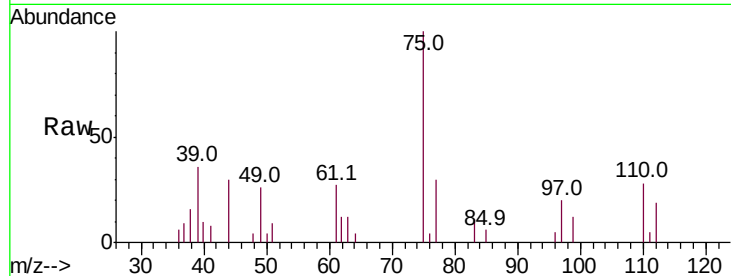




#59
 1,2,3-Trichloropropane
 Concen: 0.450 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

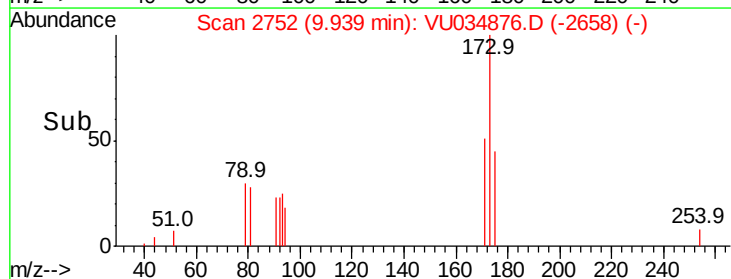
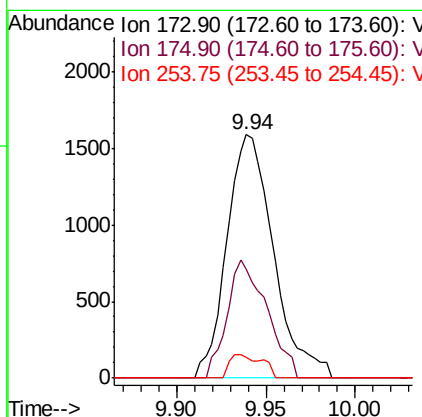
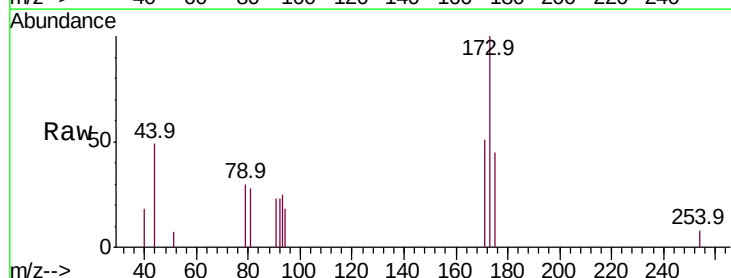
Instrument :
 MSVOA_U
 ClientSampleId :

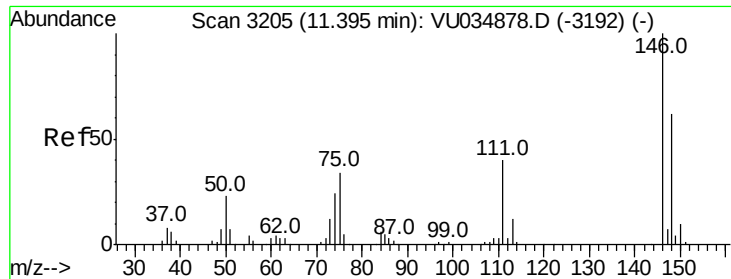
Tot Ion: 75 Resp: 4743
 Ion Ratio Lower Upper
 75 100
 77 34.8 26.5 39.7



#61
 Bromoform
 Concen: 0.511 ug/L
 RT: 9.94 min Scan# 2752
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Tgt Ion: 173 Resp: 2892
 Ion Ratio Lower Upper
 173 100
 175 41.3 39.0 58.6
 254 6.6 6.1 9.1





#62

1,3-Dichlorobenzene

Concen: 0.489 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampled :

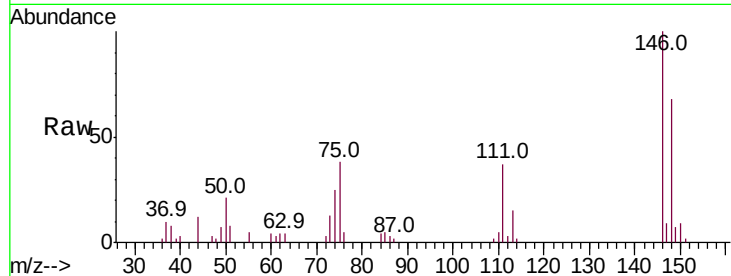
Tot Ion:146 Resp: 12187

Ion Ratio Lower Upper

146 100

111 37.4 27.7 51.5

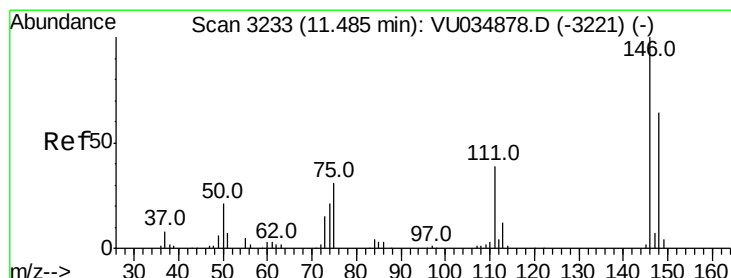
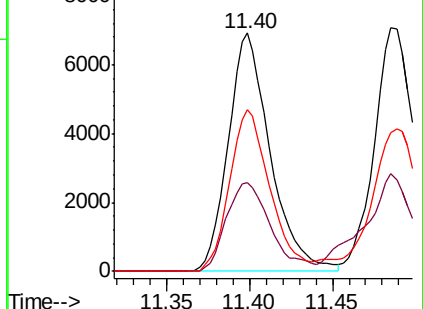
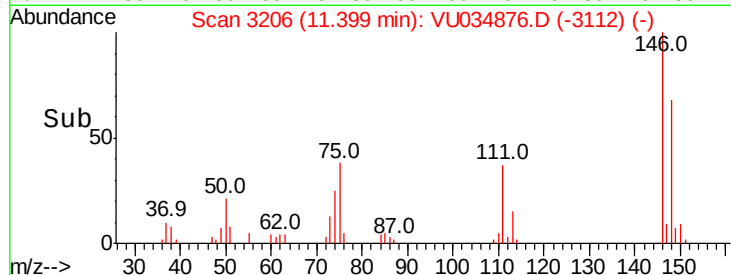
148 67.9 43.3 80.3



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: 0.529 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

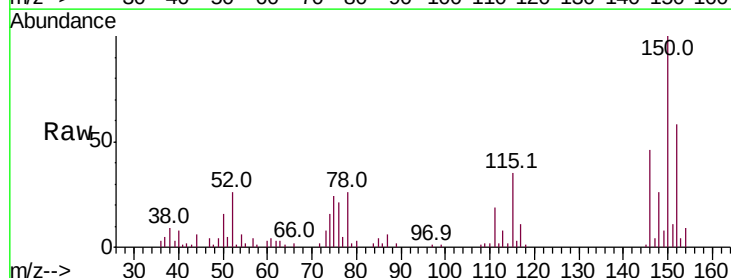
Tgt Ion:146 Resp: 13109

Ion Ratio Lower Upper

146 100

111 40.0 27.4 50.8

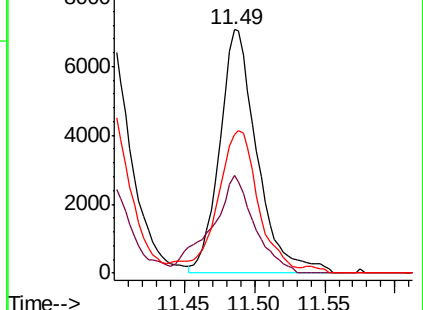
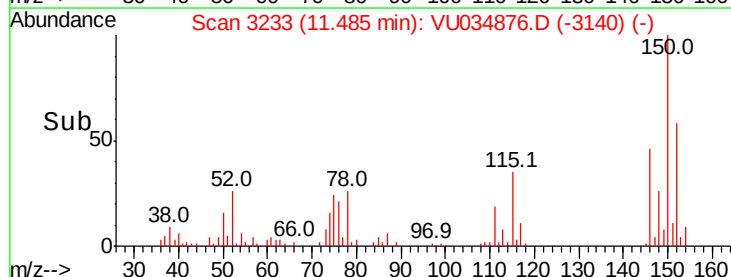
148 56.9 44.6 82.8

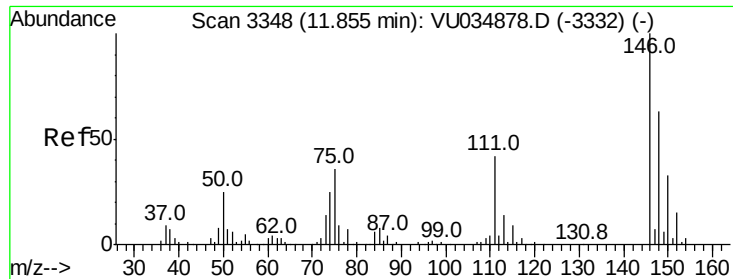


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

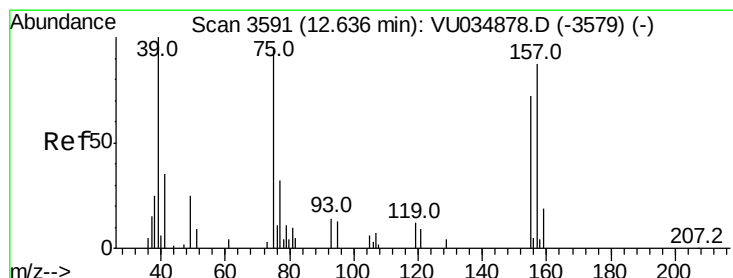
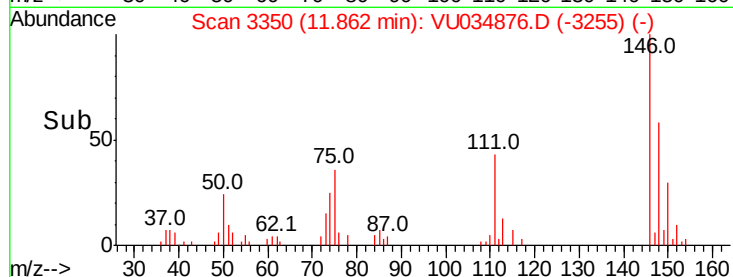
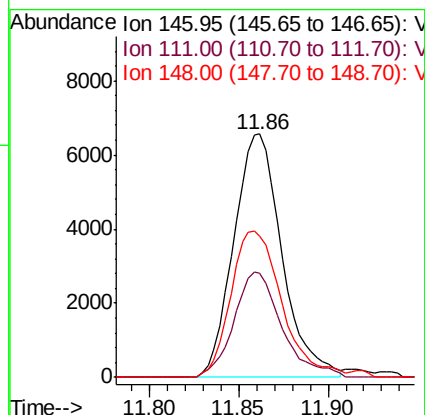
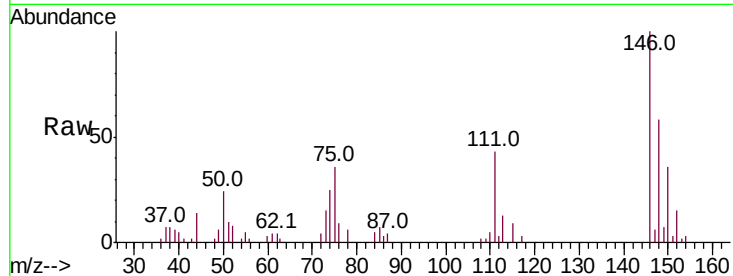




#65
 1,2-Dichlorobenzene
 Concen: 0.500 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.01 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

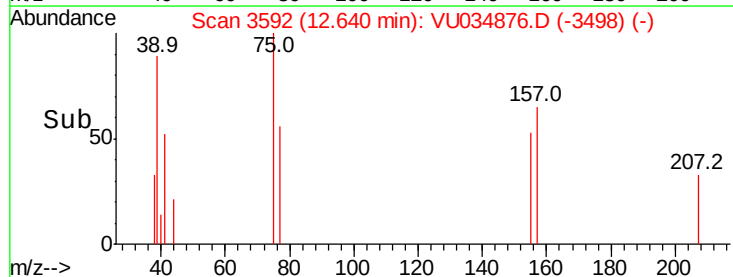
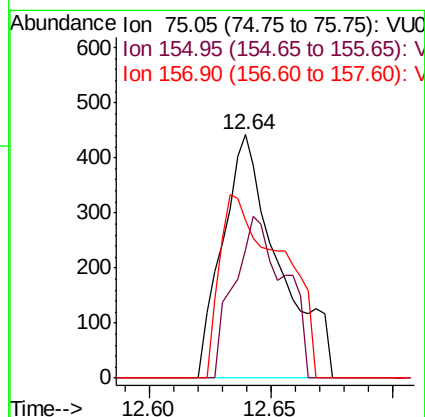
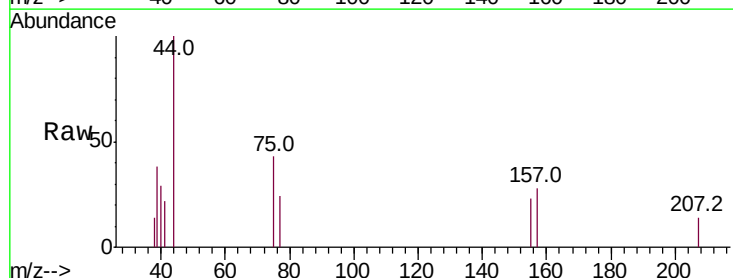
Instrument :
 MSVOA_U
 ClientSampled :

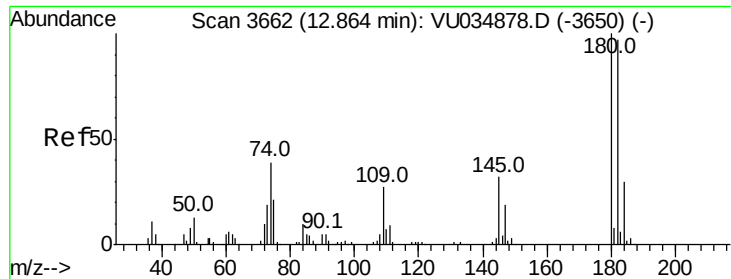
Tot Ion:146 Resp: 12331
 Ion Ratio Lower Upper
 146 100
 111 42.5 33.4 50.2
 148 58.2 50.0 75.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.327 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Tgt Ion: 75 Resp: 707
 Ion Ratio Lower Upper
 75 100
 155 52.7 61.1 91.7#
 157 64.9 73.8 110.8#

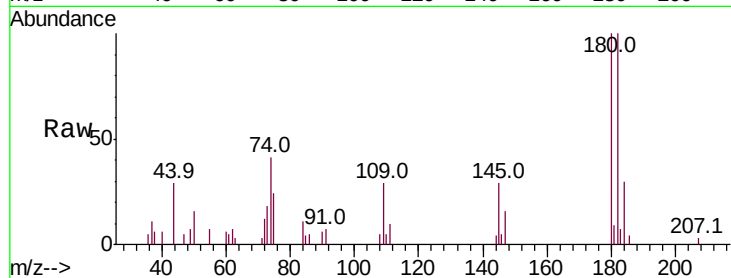




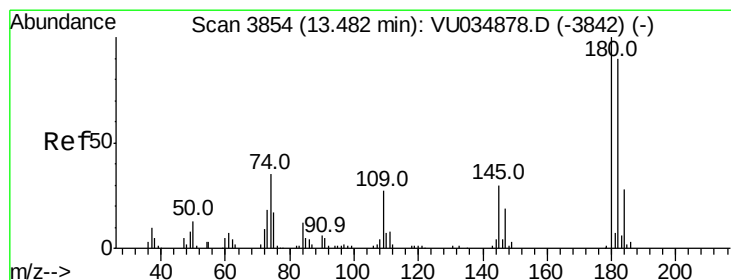
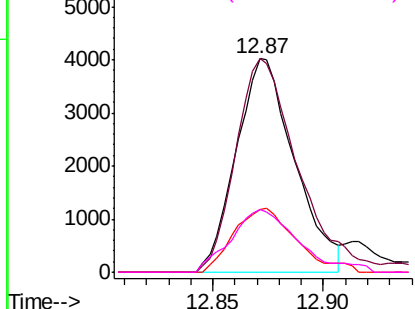
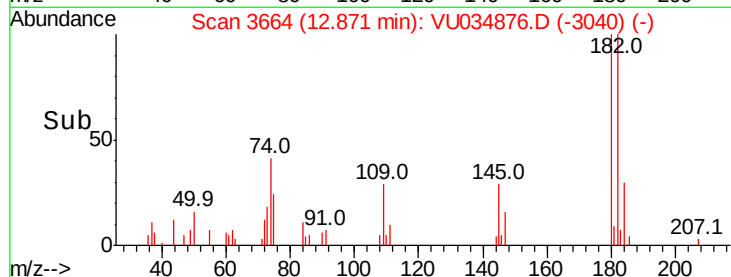
#67
 1,3,5-Trichlorobenzene
 Concen: 0.443 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 7377
 Ion Ratio Lower Upper
 180 100
 182 106.5 77.0 115.4
 184 32.0 24.4 36.6
 145 33.6 25.0 37.6

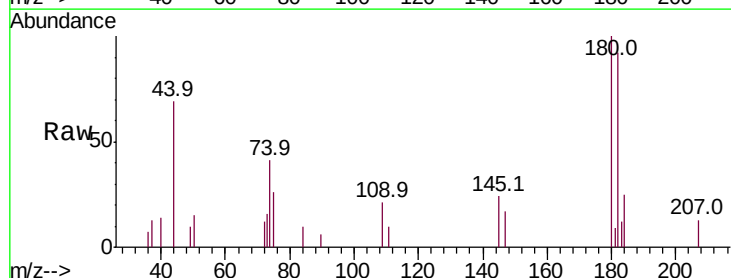


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

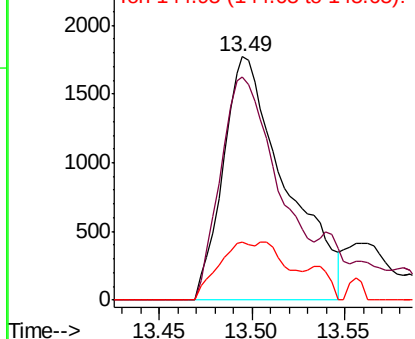
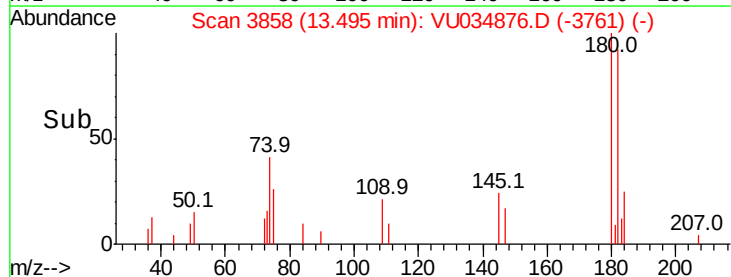


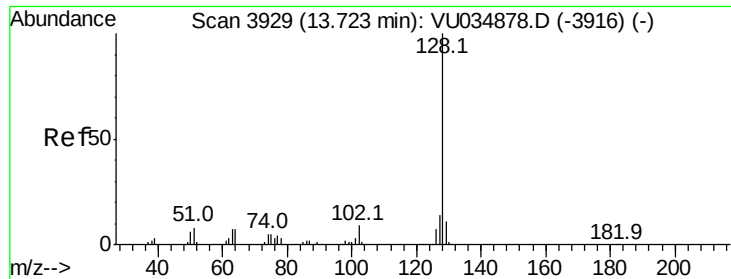
#68
 1,2,4-trichlorobenzene
 Concen: 0.314 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU034876.D
 Acq: 30 Sep 2019 12:16

Tgt Ion:180 Resp: 4146
 Ion Ratio Lower Upper
 180 100
 182 85.4 74.3 111.5
 145 14.0 24.0 36.0#



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: 0.187 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

Instrument :

MSVOA_U

ClientSampleId :

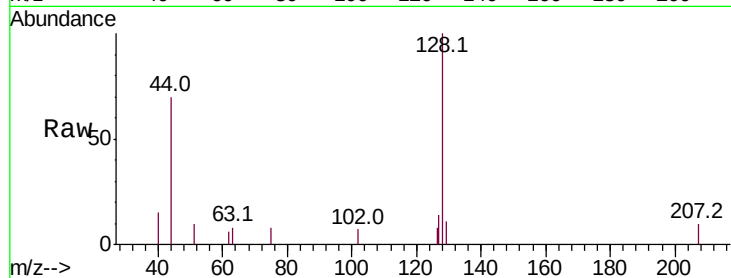
Tot Ion:128 Resp: 5788

Ion Ratio Lower Upper

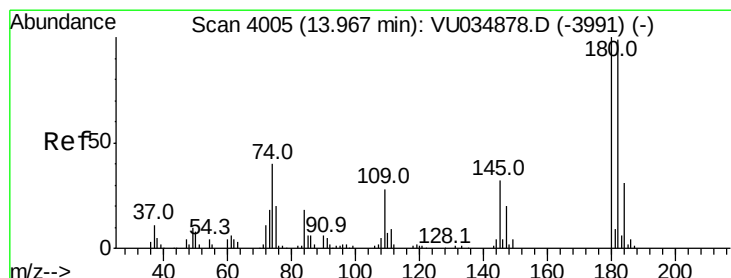
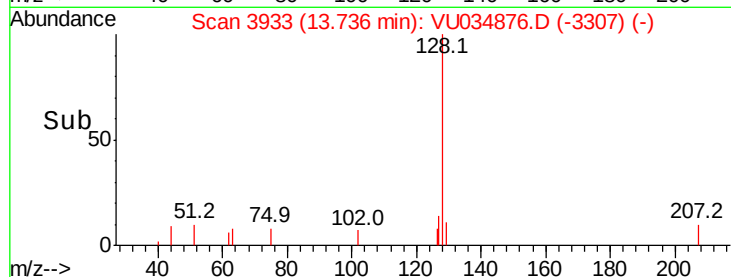
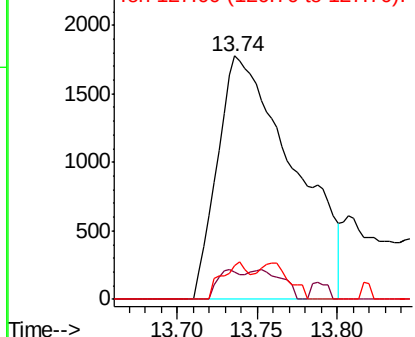
128 100

129 4.2 8.5 12.7#

127 5.4 11.0 16.6#



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



#70

1,2,3-Trichlorobenzene

Concen: 0.363 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU034876.D

Acq: 30 Sep 2019 12:16

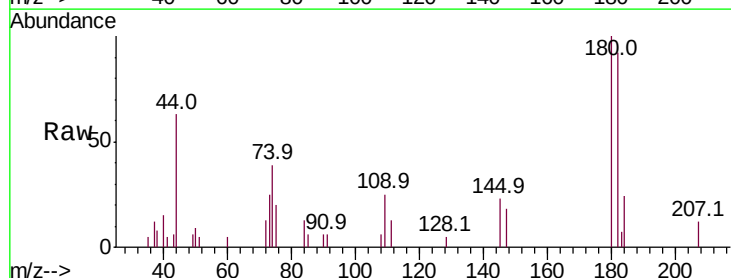
Tgt Ion:180 Resp: 4534

Ion Ratio Lower Upper

180 100

182 113.9 78.2 117.2

145 15.3 25.4 38.0#



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

