

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090119\
 Data File : VU034115.D
 Acq On : 31 Aug 2019 11:28
 Operator : JC/SP
 Sample : VSTD0.501
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 31 14:51:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR090119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 31 14:48:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	344059	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	330486	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	172188	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	10831	0.37	ug/L	0.00
7) Chloroethane-d5	1.68	69	8384	0.35	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	19834	0.35	ug/L	0.00
20) 2-Butanone-d5	4.20	46	22420	3.25	ug/L	0.02
24) Chloroform-d	4.63	84	18288	0.37	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	10207	0.39	ug/L	0.00
32) Benzene-d6	5.32	84	37868	0.41	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	11913	0.41	ug/L	0.00
41) Toluene-d8	7.55	98	37677	0.47	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	4120	0.38	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	15583	3.51	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	9218	0.39	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	14375	0.46	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	15946	0.406 ug/L	97
3) Chloromethane	1.32	50	16615	0.430 ug/L	98
5) Vinyl chloride	1.40	62	16262	0.400 ug/L	94
6) Bromomethane	1.62	94	8027	0.432 ug/L	96
8) Chloroethane	1.69	64	9530	0.380 ug/L	85
9) Trichlorofluoromethane	1.88	101	18429	0.401 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	10472	0.399 ug/L	99
12) 1,1-Dichloroethene	2.27	96	10066	0.393 ug/L	98
13) Acetone	2.32	43	18519	3.493 ug/L	99
14) Carbon disulfide	2.46	76	36353	0.404 ug/L	98
15) Methyl Acetate	2.61	43	5140	0.353 ug/L	97
16) Methylene chloride	2.69	84	13279	0.443 ug/L	93
17) Methyl tert-butyl Ether	2.99	73	25450	0.385 ug/L	97
18) trans-1,2-Dichloroethene	2.96	96	11460	0.415 ug/L	93
19) 1,1-Dichloroethane	3.43	63	21956	0.406 ug/L	97
21) 2-Butanone	4.27	43	27370	3.554 ug/L	96
22) cis-1,2-Dichloroethene	4.21	96	11926	0.412 ug/L	94
23) Bromochloromethane	4.53	128	5493	0.423 ug/L	87
25) Chloroform	4.65	83	24701	0.442 ug/L	95
27) 1,2-Dichloroethane	5.39	62	12577	0.384 ug/L	97
29) 1,1,1-Trichloroethane	4.89	97	17422	0.436 ug/L	99
30) Cyclohexane	4.96	56	20025	0.481 ug/L	97
31) Carbon tetrachloride	5.11	117	14823	0.418 ug/L	99
33) Benzene	5.37	78	47355	0.458 ug/L	100
34) Trichloroethene	6.17	95	12427	0.461 ug/L	97
35) Methylcyclohexane	6.39	83	19661	0.475 ug/L	98
37) 1,2-Dichloropropane	6.41	63	12703	0.452 ug/L	97
38) Bromodichloromethane	6.74	83	14604	0.427 ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	16005	0.431 ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	65306	3.934 ug/L	99

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

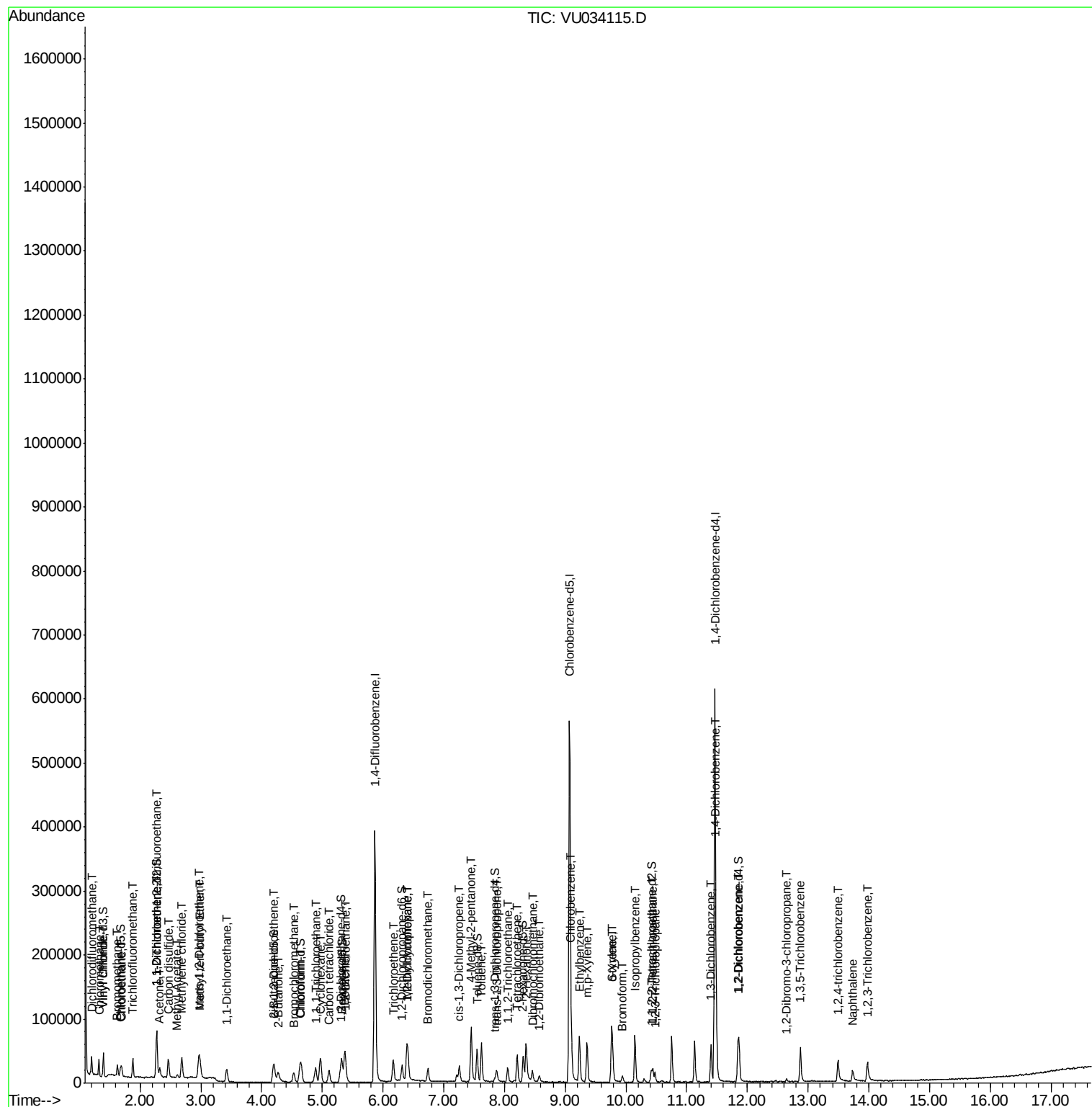
42) Toluene	7.62	91	48626	0.465	ug/L	96
44) trans-1,3-Dichloropropene	7.87	75	11691	0.392	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	7785	0.414	ug/L	94
47) Tetrachloroethene	8.21	164	10139	0.477	ug/L	94
48) 2-Hexanone	8.36	43	42772	3.690	ug/L	100
49) Dibromochloromethane	8.46	129	9178	0.414	ug/L	93
50) 1,2-Dibromoethane	8.57	107	7387	0.414	ug/L #	100
51) Chlorobenzene	9.10	112	31831	0.463	ug/L	99
52) Ethylbenzene	9.23	91	51310	0.465	ug/L	100
53) m,p-Xylene	9.36	106	19860	0.480	ug/L	95
54) o-Xylene	9.76	106	18234	0.465	ug/L	99
55) Styrene	9.78	104	28494	0.425	ug/L	99
56) Isopropylbenzene	10.15	105	48736	0.467	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	10522	0.427	ug/L	96
59) 1,2,3-Trichloropropane	10.48	75	6905	0.393	ug/L	95
61) Bromoform	9.95	173	5098	0.402	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	26389	0.489	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	27768	0.497	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	24142	0.467	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.65	75	1453	0.377	ug/L	87
67) 1,3,5-Trichlorobenzene	12.87	180	20922	0.494	ug/L	95
68) 1,2,4-trichlorobenzene	13.49	180	13604	0.428	ug/L	87
69) Naphthalene	13.74	128	21407	0.436	ug/L #	94
70) 1,2,3-Trichlorobenzene	13.98	180	13053	0.430	ug/L	93

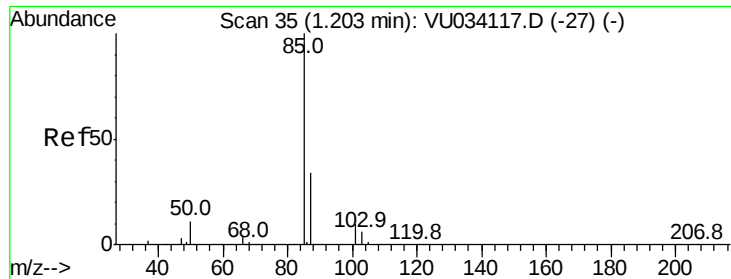
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.406 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

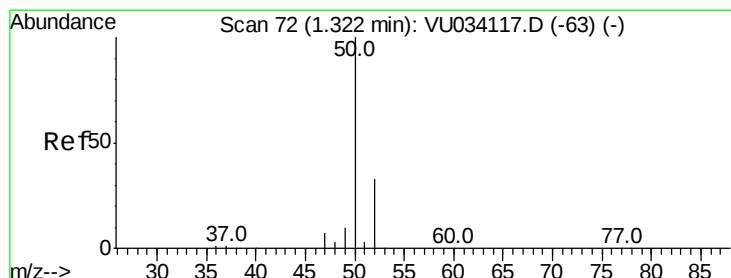
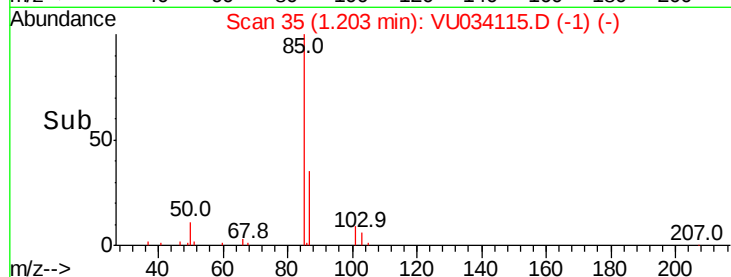
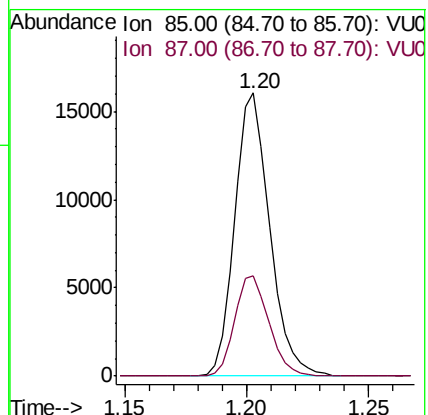
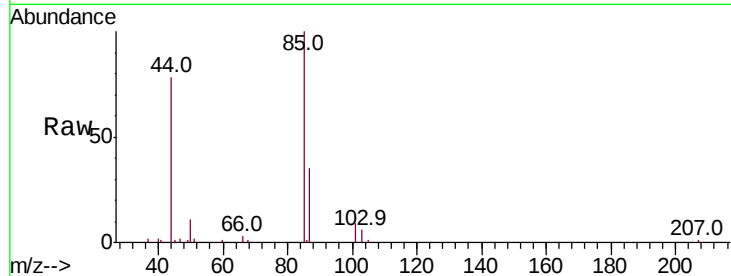
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 15946

Ion Ratio Lower Upper

85 100

87 34.6 26.2 39.2



#3

Chloromethane

Concen: 0.430 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034115.D

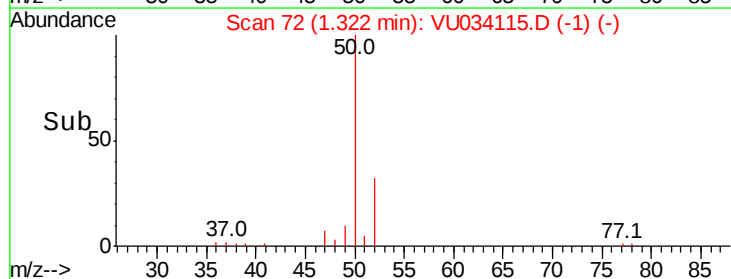
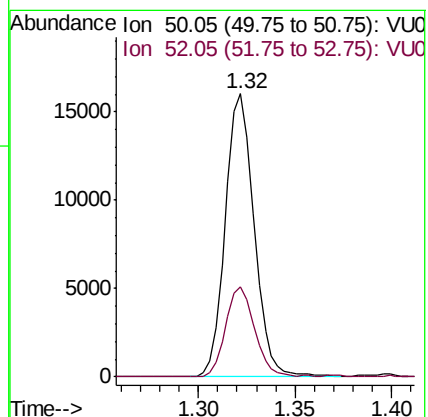
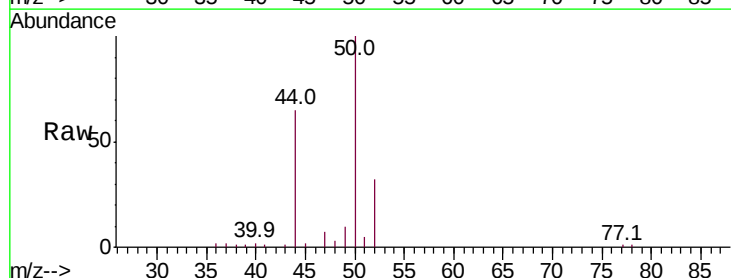
Acq: 31 Aug 2019 11:28

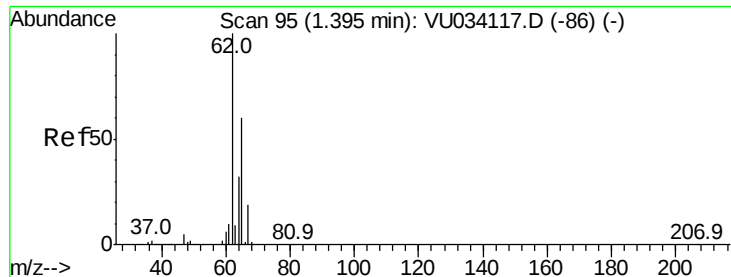
Tgt Ion: 50 Resp: 16615

Ion Ratio Lower Upper

50 100

52 31.8 23.1 42.9





#5

Vinyl chloride

Concen: 0.400 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

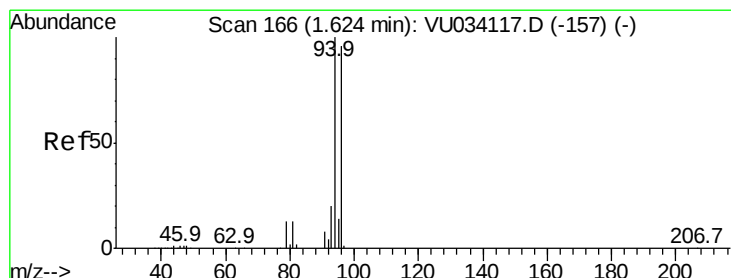
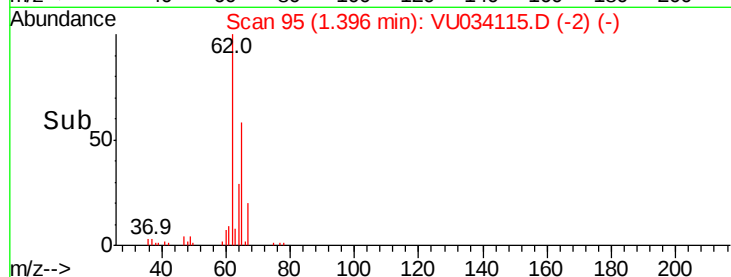
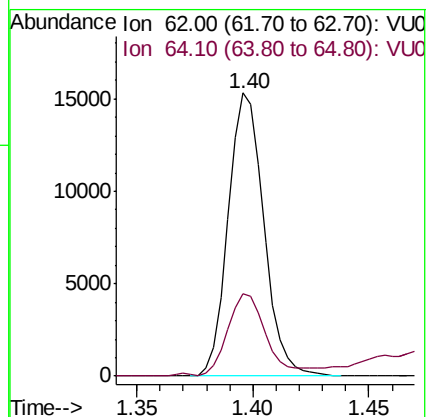
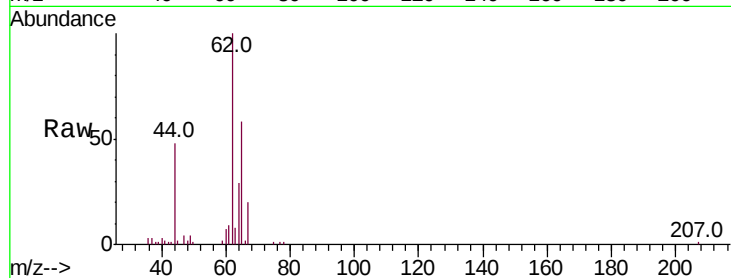
ClientSampleId :

Tot Ion: 62 Resp: 16262

Ion Ratio Lower Upper

62 100

64 29.2 22.6 42.0



#6

Bromomethane

Concen: 0.432 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU034115.D

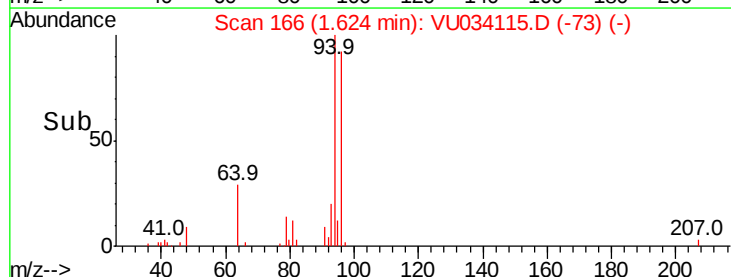
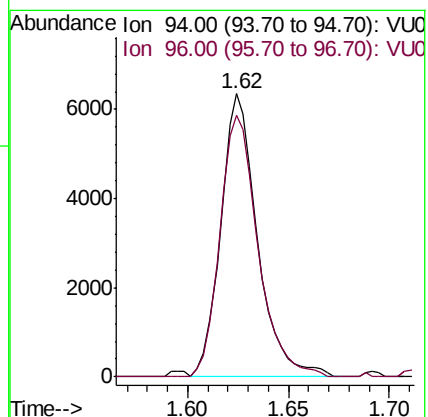
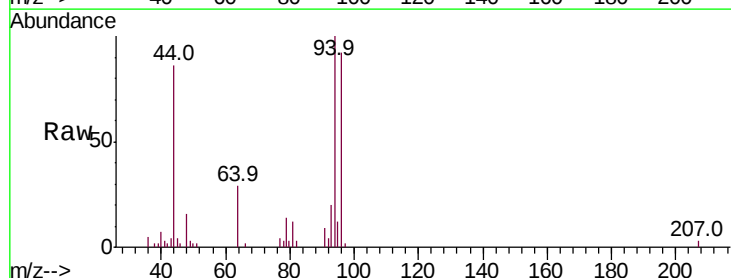
Acq: 31 Aug 2019 11:28

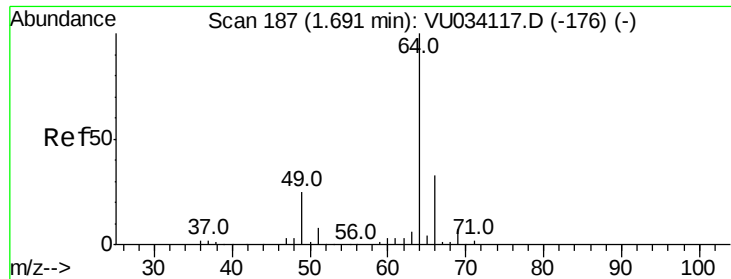
Tgt Ion: 94 Resp: 8027

Ion Ratio Lower Upper

94 100

96 92.3 67.0 124.4





#8

Chloroethane

Concen: 0.380 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

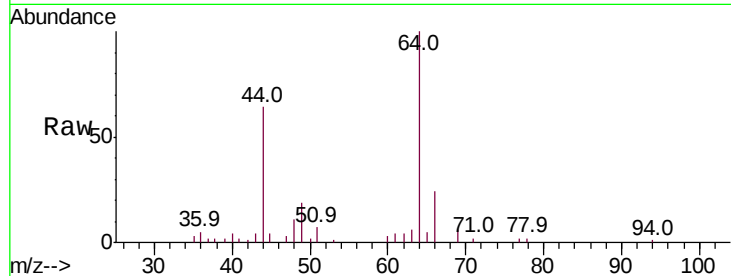
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 9530

Ion Ratio Lower Upper

64 100

66 23.9 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU034117.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU034117.D (-176) (-)

1.69

10000

8000

6000

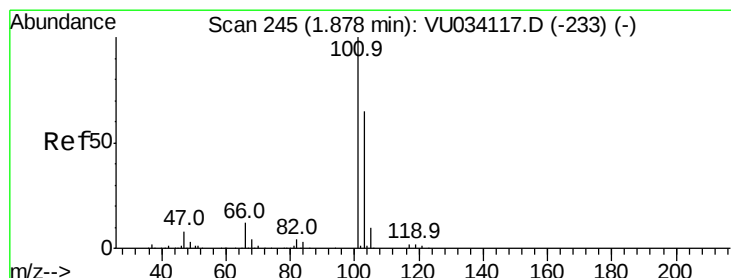
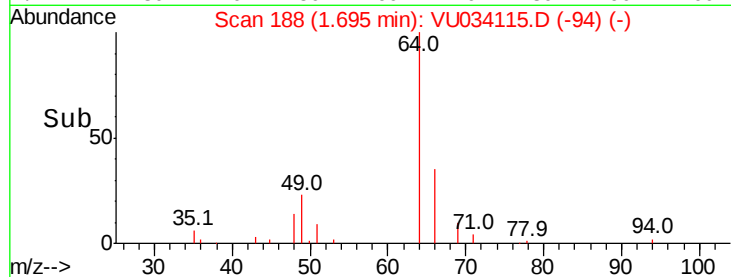
4000

2000

0

1.66 1.68 1.70 1.72

Time-->



#9

Trichlorofluoromethane

Concen: 0.401 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU034115.D

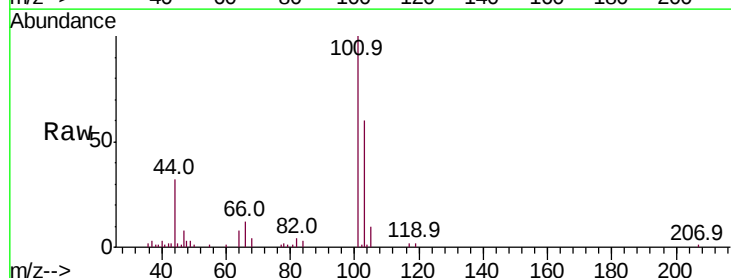
Acq: 31 Aug 2019 11:28

Tgt Ion:101 Resp: 18429

Ion Ratio Lower Upper

101 100

103 65.5 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VU034117.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034117.D (-233) (-)

1.88

15000

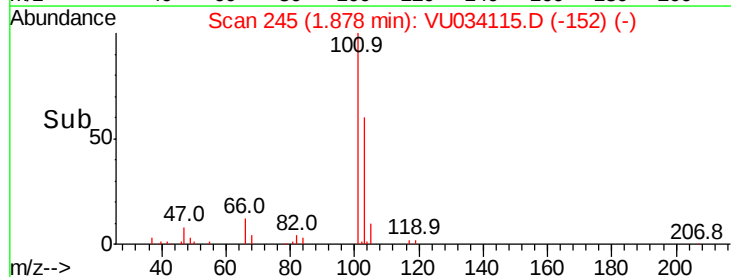
10000

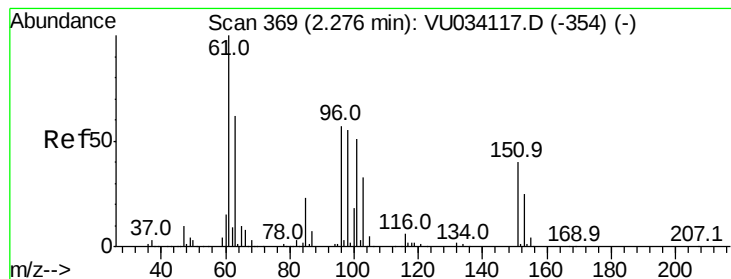
5000

0

1.85 1.90

Time-->





#10

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

Concen: 0.399 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

ClientSampleId :

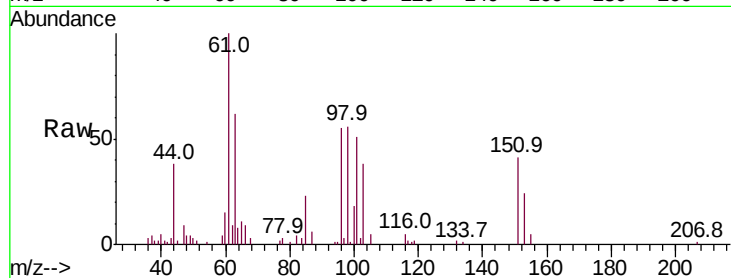
Tot Ion:101 Resp: 10472

Ion Ratio Lower Upper

101 100

85 42.0 35.0 52.4

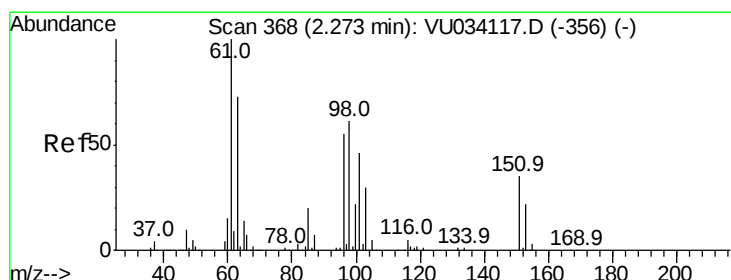
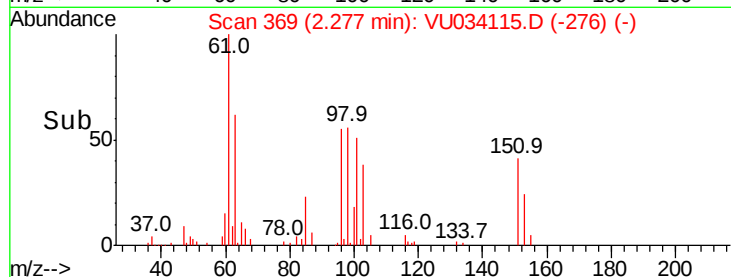
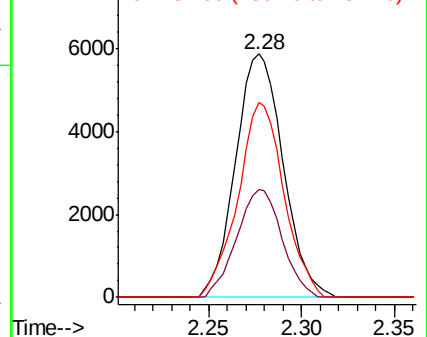
151 77.2 62.0 93.0



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: VU034115.D

Acq: 31 Aug 2019 11:28

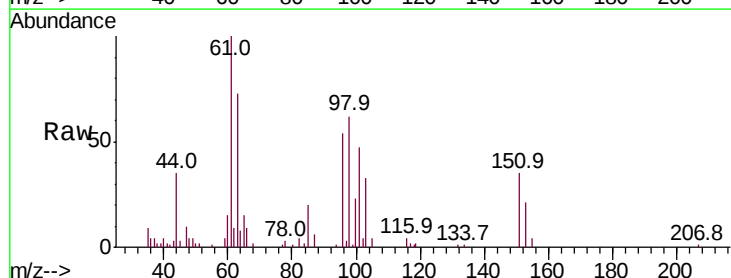
Tgt Ion: 96 Resp: 10066

Ion Ratio Lower Upper

96 100

61 184.6 126.6 235.0

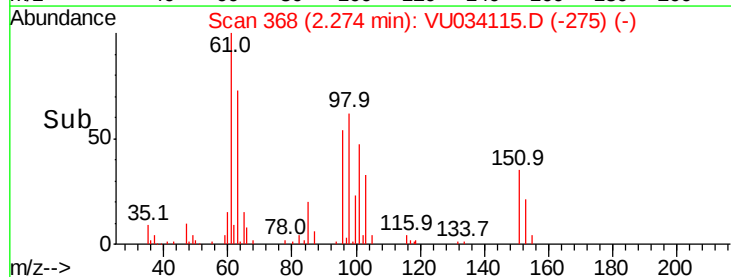
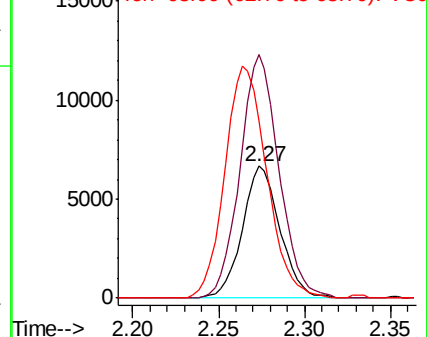
63 134.7 94.5 175.5

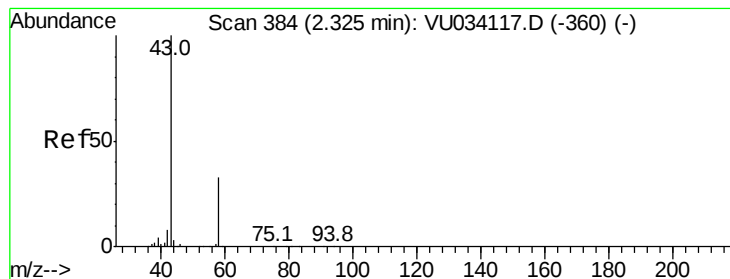


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.493 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

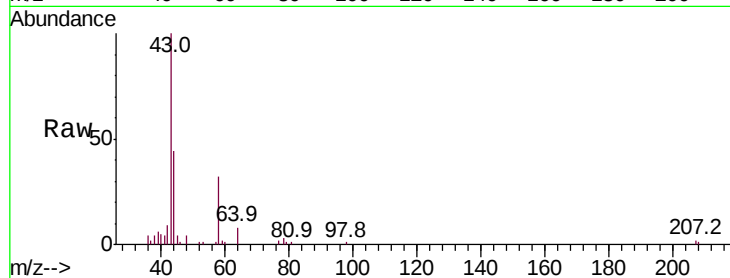
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 18519

Ion Ratio Lower Upper

43 100

58 33.5 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU034117.D (-360) (-)

Ion 58.05 (57.75 to 58.75): VU034117.D (-360) (-)

2.32

10000

8000

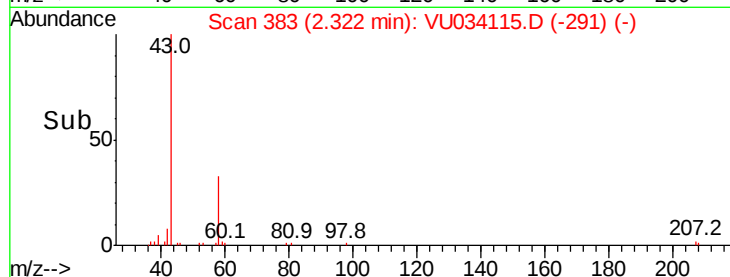
6000

4000

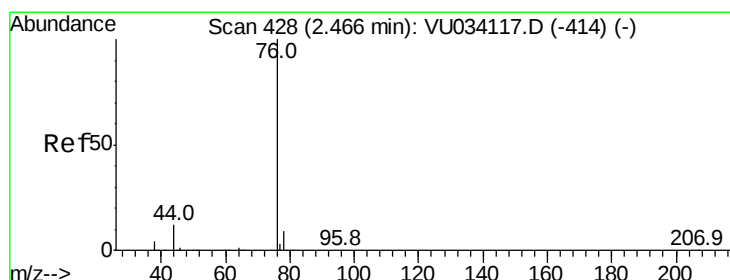
2000

0

Time-->



Time-->



#14

Carbon disulfide

Concen: 0.404 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034115.D

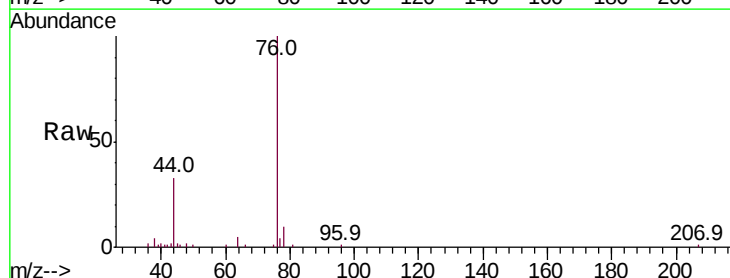
Acq: 31 Aug 2019 11:28

Tgt Ion: 76 Resp: 36353

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU034117.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU034117.D (-414) (-)

2.46

25000

20000

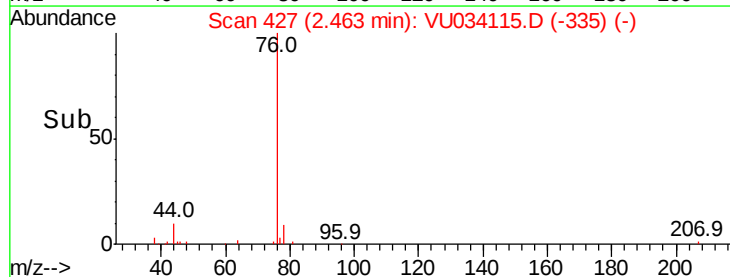
15000

10000

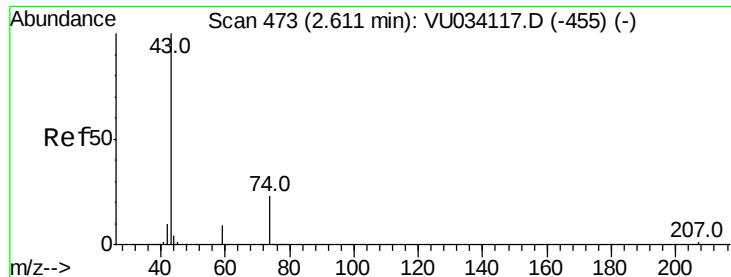
5000

0

Time-->



Time-->



#15

Methyl Acetate

Concen: 0.353 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

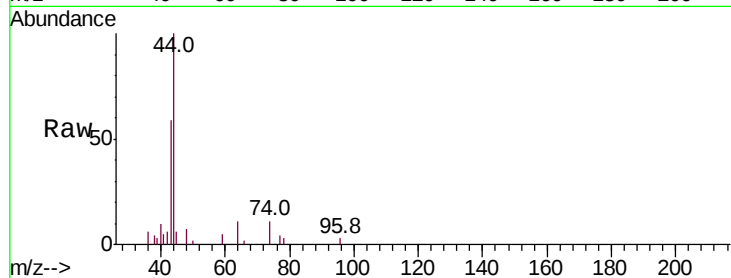
ClientSampleId :

Tot Ion: 43 Resp: 5140

Ion Ratio Lower Upper

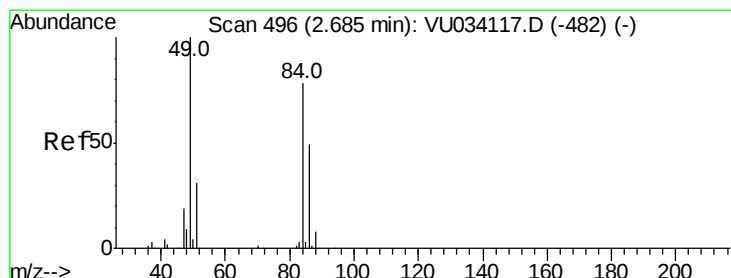
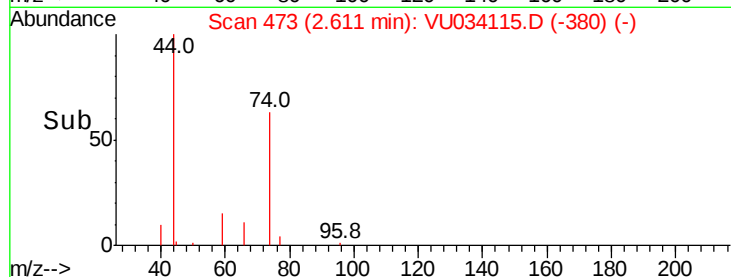
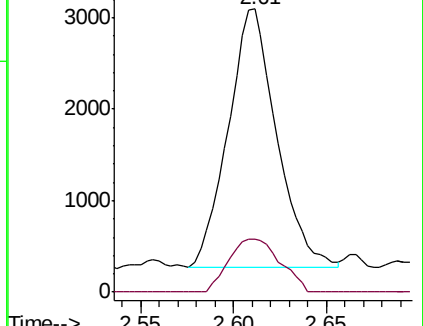
43 100

74 21.6 18.4 27.6



Abundance Ion 43.05 (42.75 to 43.75): VU034115.D (-455) (-)

Ion 74.05 (73.75 to 74.75): VU034115.D (-455) (-)



#16

Methylene chloride

Concen: 0.443 ug/L

RT: 2.69 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

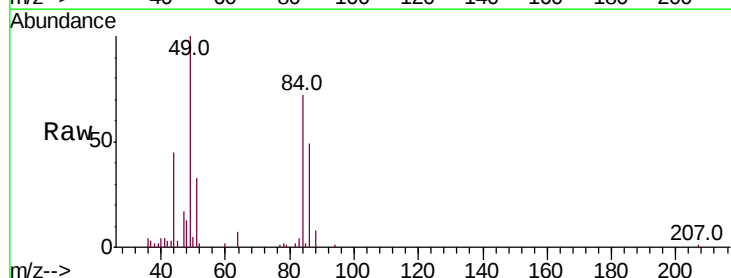
Tgt Ion: 84 Resp: 13279

Ion Ratio Lower Upper

84 100

86 67.2 44.4 82.5

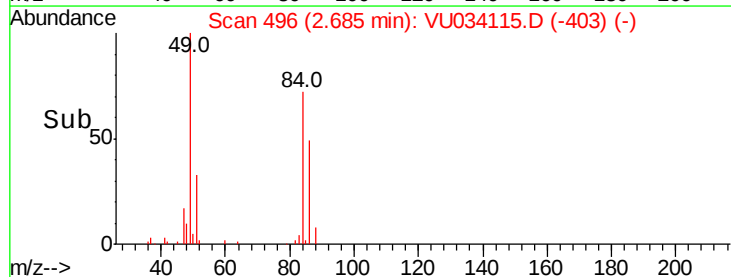
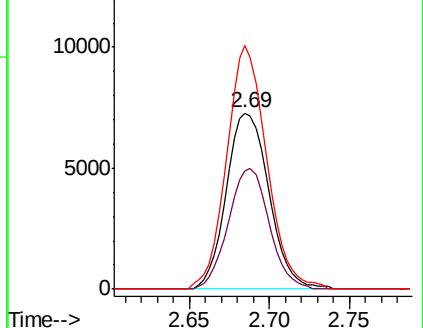
49 138.1 90.2 167.4

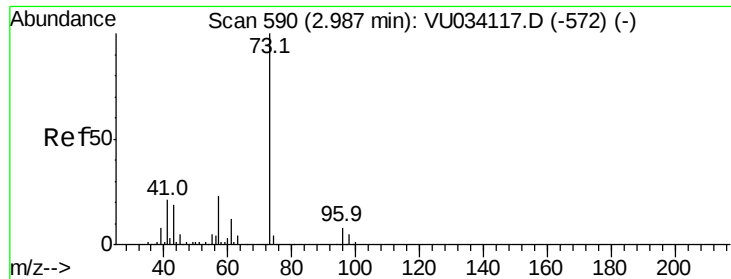


Abundance Ion 84.05 (83.75 to 84.75): VU034115.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU034115.D (-482) (-)

Ion 49.10 (48.80 to 49.80): VU034115.D (-482) (-)

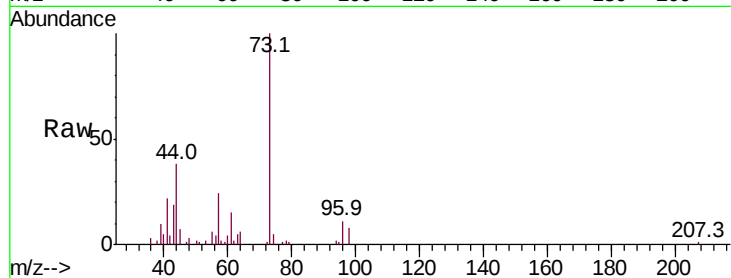




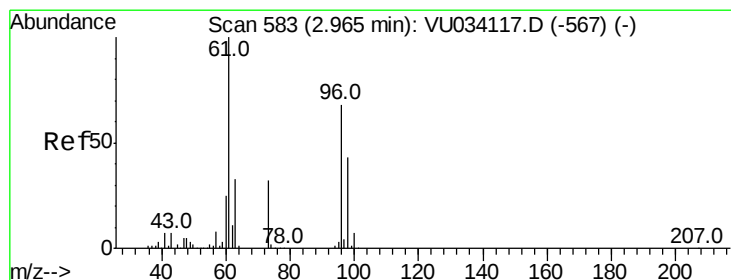
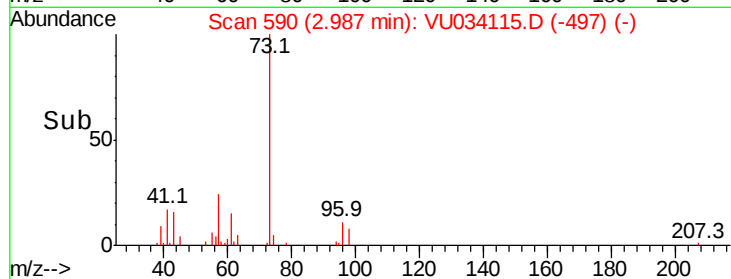
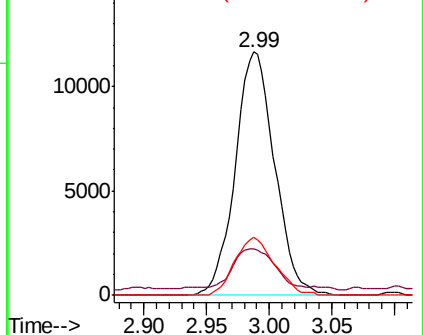
#17
Methvl tert-butvl Ether
Concen: 0.385 ug/L
RT: 2.99 min Scan# 590
Delta R.T. 0.00 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 25450
Ion Ratio Lower Upper
73 100
43 16.3 14.7 22.1
57 24.2 18.6 27.8

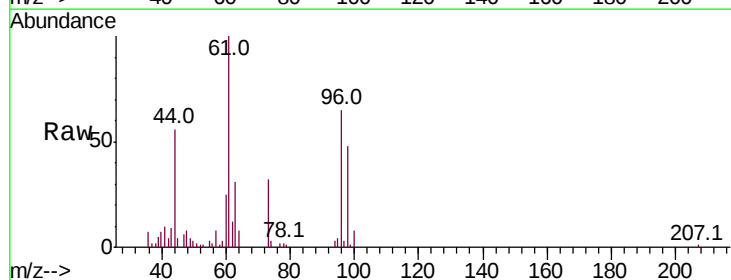


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

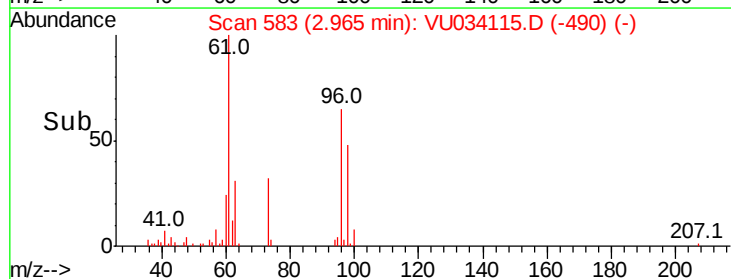
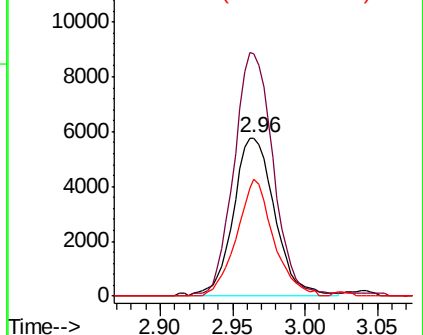


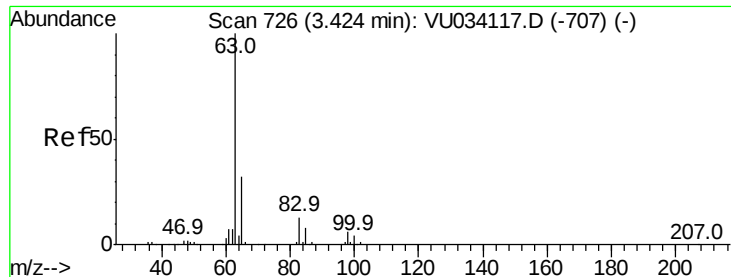
#18
trans-1,2-Dichloroethene
Concen: 0.415 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Tgt Ion: 96 Resp: 11460
Ion Ratio Lower Upper
96 100
61 153.3 103.5 192.3
98 73.9 44.9 83.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

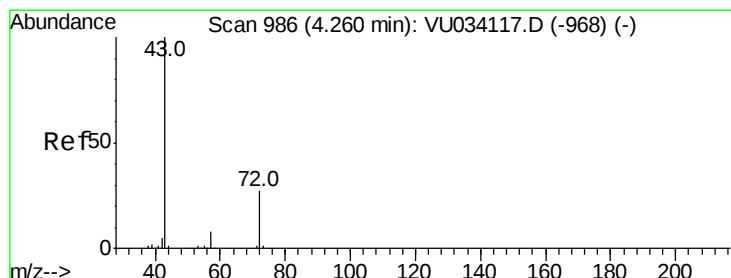
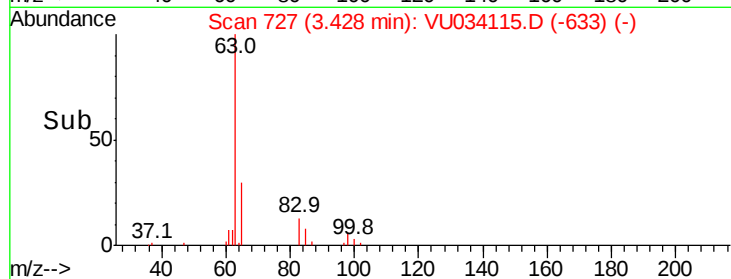
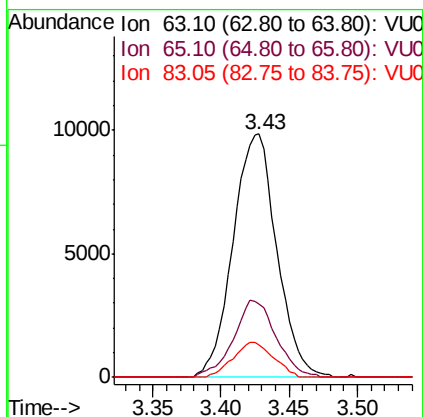
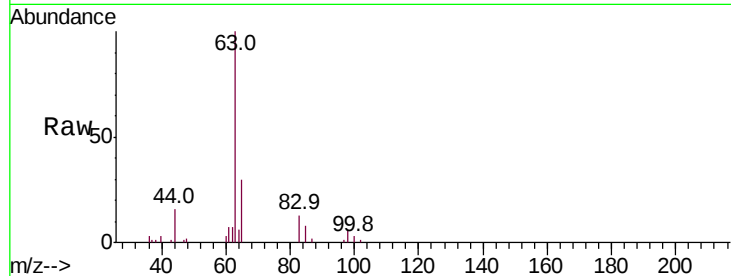




#19
 1,1-Dichloroethane
 Concen: 0.406 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

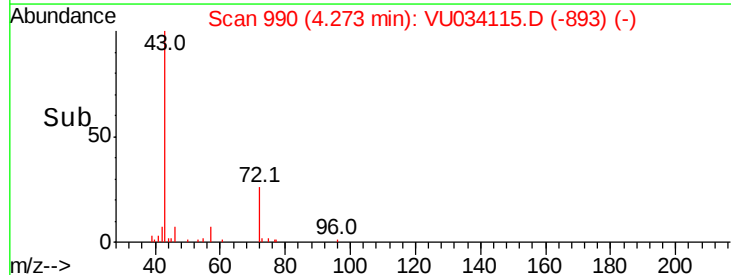
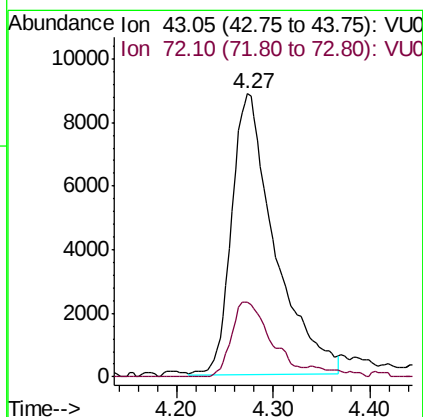
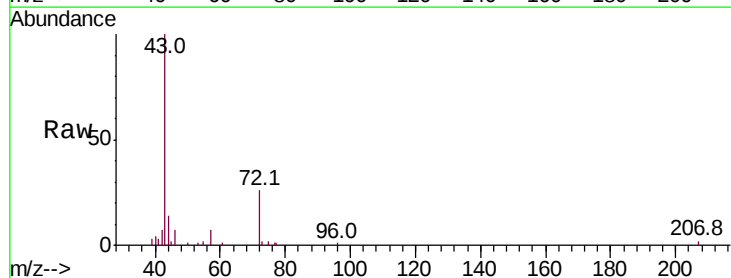
Instrument :
 MSVOA_U
 ClientSampleId :

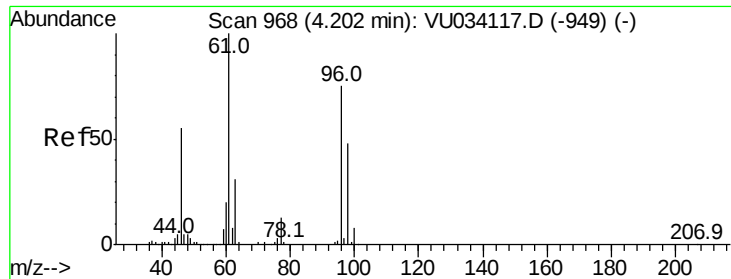
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.0	22.5	41.9
83	13.1	9.1	16.9



#21
 2-Butanone
 Concen: 3.554 ug/L
 RT: 4.27 min Scan# 990
 Delta R.T. 0.01 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.2	13.3	39.8



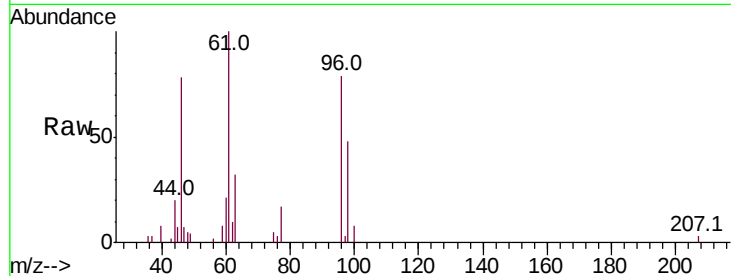


#22

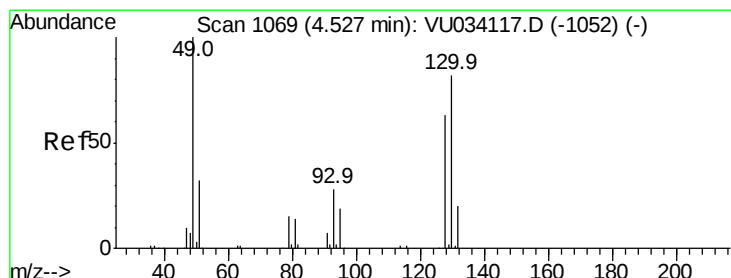
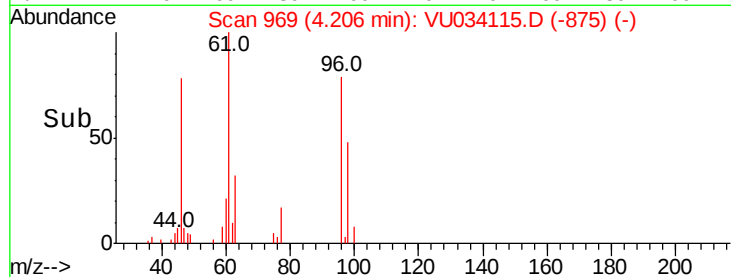
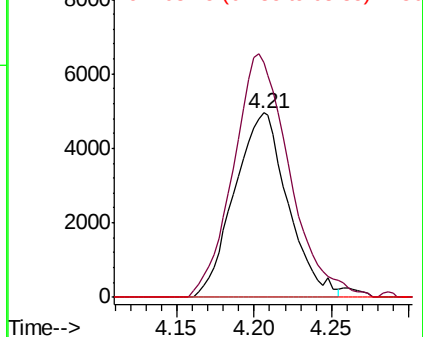
cis-1,2-Dichloroethene
Concen: 0.412 ug/L
RT: 4.21 min Scan# 969
Delta R.T. 0.00 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.1	93.6	173.8
68	0.0	0.0	0.0



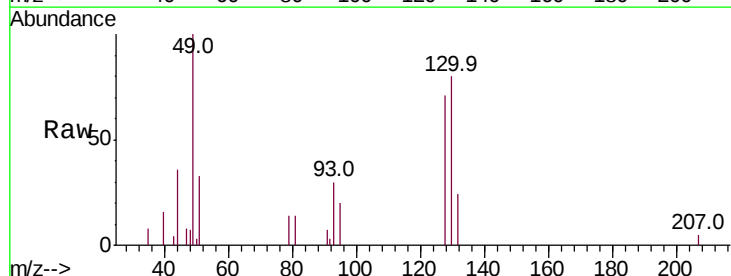
Abundance Ion 96.00 (95.70 to 96.70): VU034115.D (-949) (-)



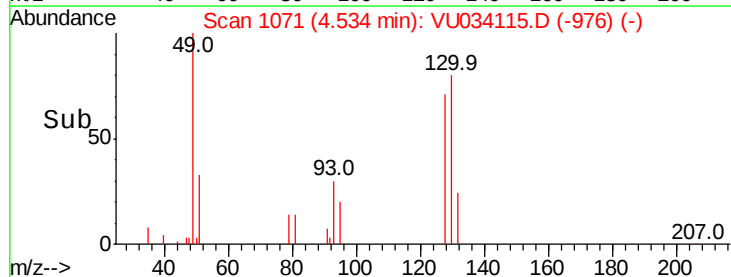
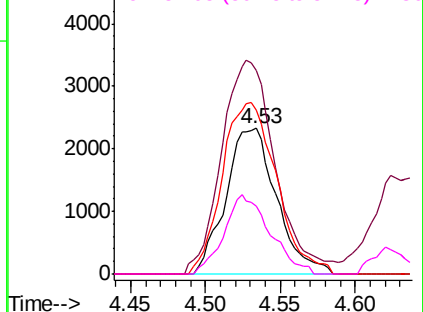
#23

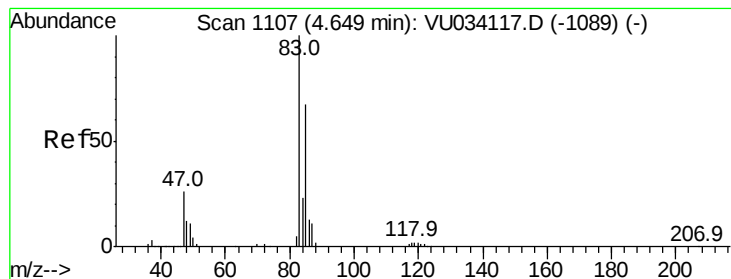
Bromochloromethane
Concen: 0.423 ug/L
RT: 4.53 min Scan# 1071
Delta R.T. 0.01 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Tgt Ion	Ratio	Lower	Upper
128	100		
49	139.9	110.8	205.8
130	112.6	90.8	168.6
51	46.3	41.1	61.7



Abundance Ion 127.90 (127.60 to 128.60): VU034115.D (-1052) (-)





#25

Chloroform

Concen: 0.442 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

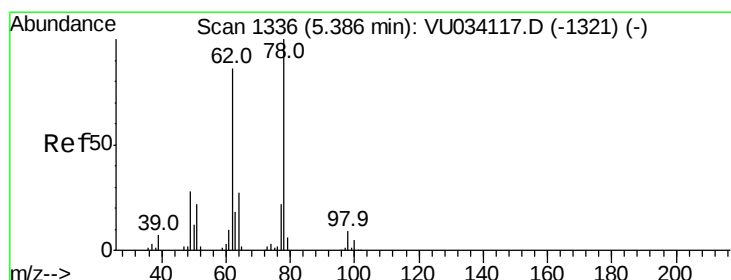
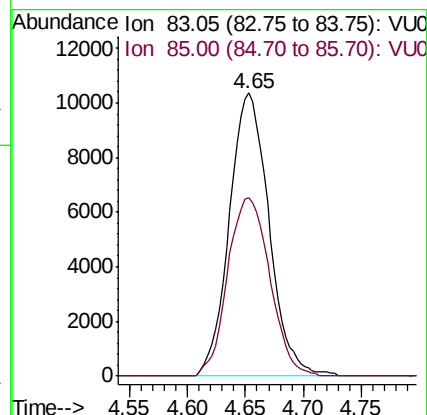
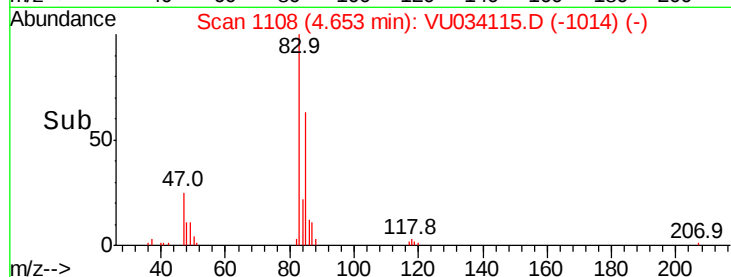
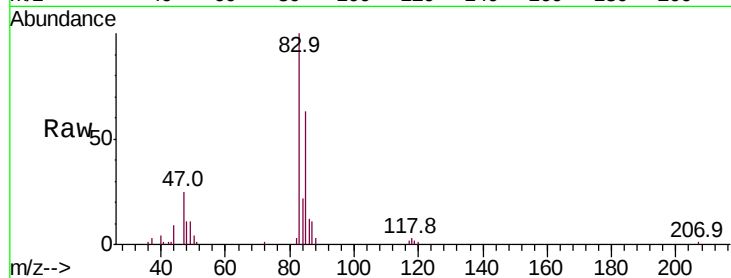
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 24701

Ion Ratio Lower Upper

83 100

85 63.1 46.8 86.8



#27

1,2-Dichloroethane

Concen: 0.384 ug/L

RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU034115.D

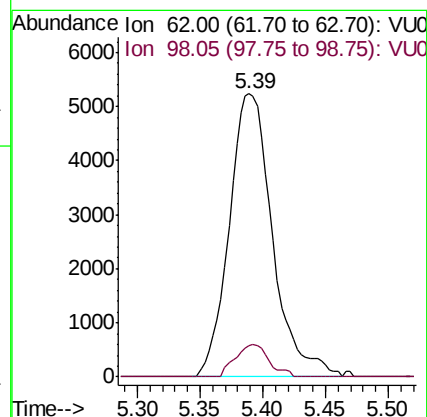
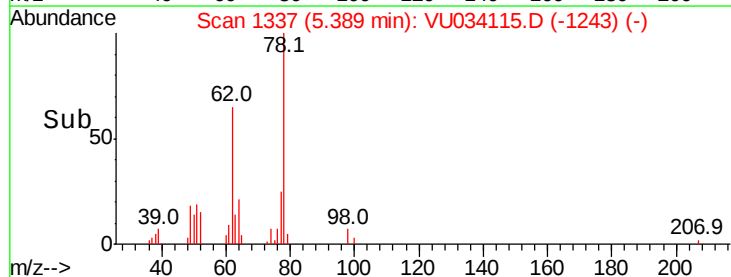
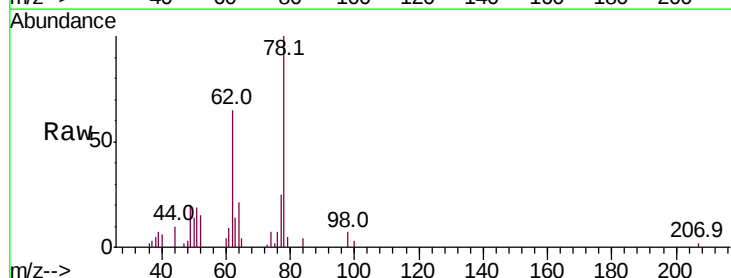
Acq: 31 Aug 2019 11:28

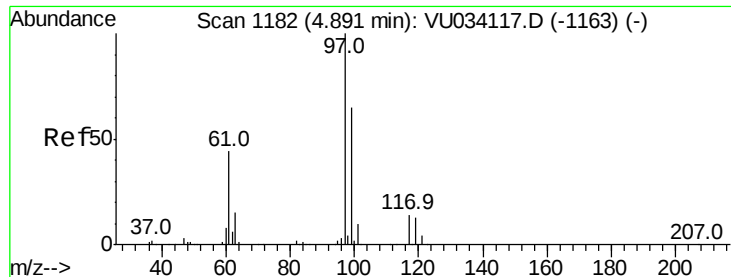
Tgt Ion: 62 Resp: 12577

Ion Ratio Lower Upper

62 100

98 10.9 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 0.436 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

ClientSampleId :

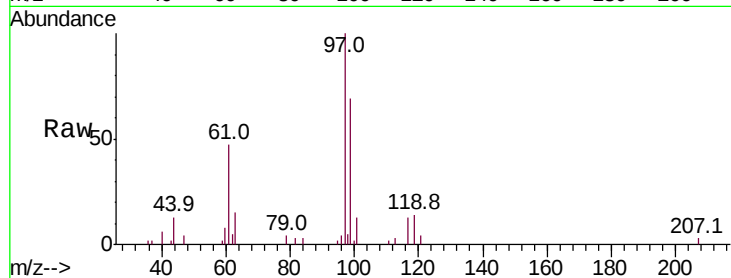
Tot Ion: 97 Resp: 17422

Ion Ratio Lower Upper

97 100

99 63.4 52.1 78.1

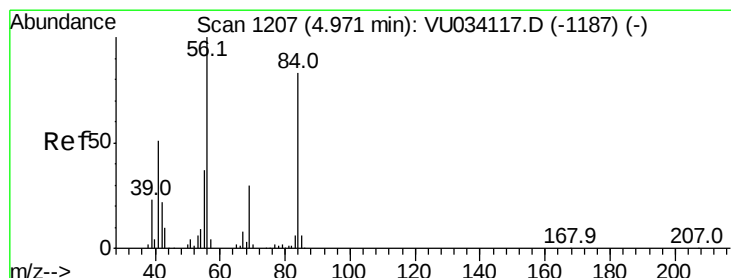
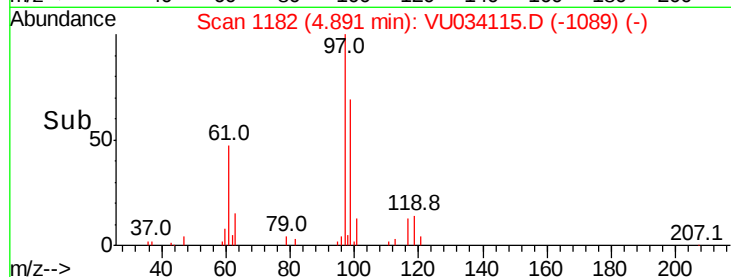
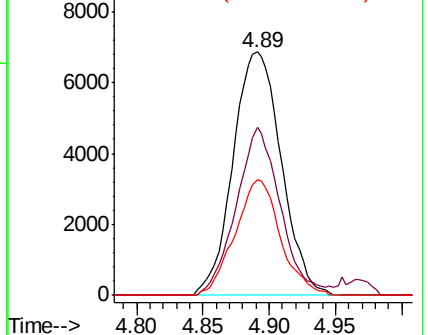
61 44.4 35.4 53.2



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: 0.481 ug/L

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

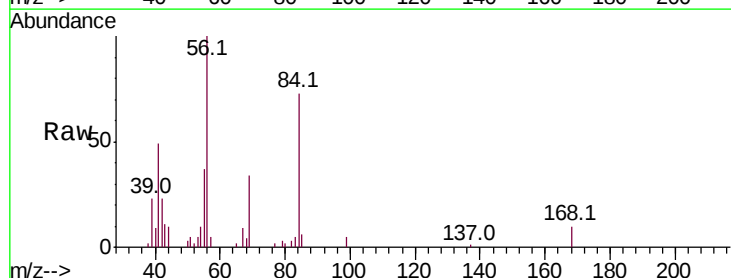
Tgt Ion: 56 Resp: 20025

Ion Ratio Lower Upper

56 100

69 33.3 24.2 36.4

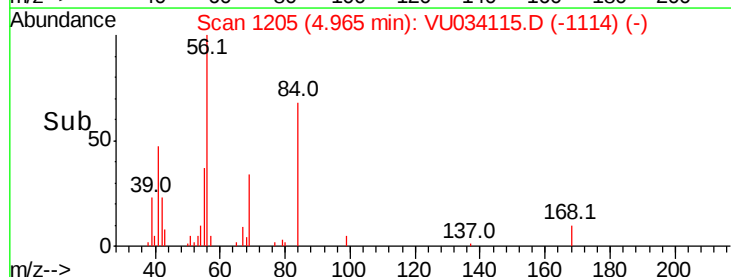
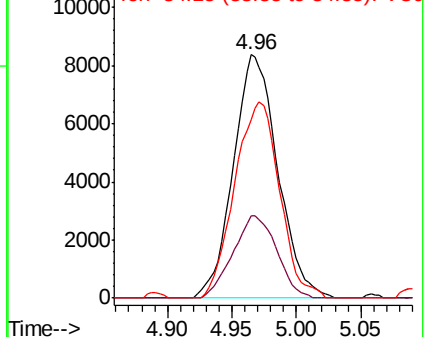
84 81.6 67.0 100.4

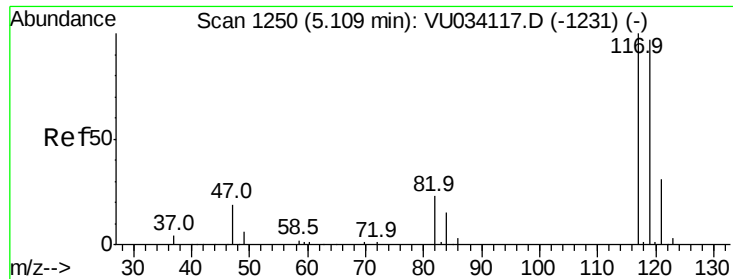


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.418 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

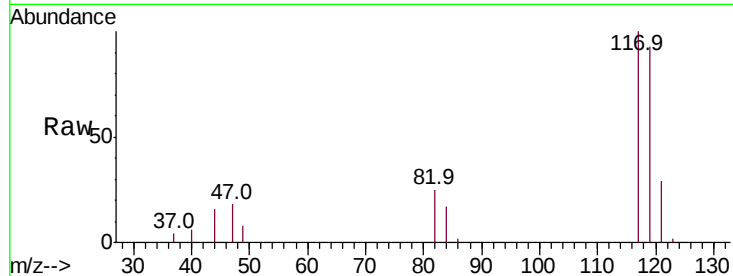
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 14823

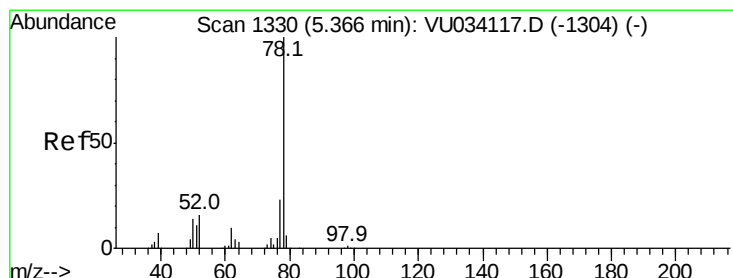
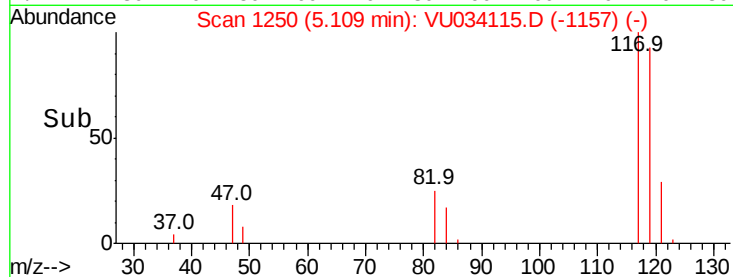
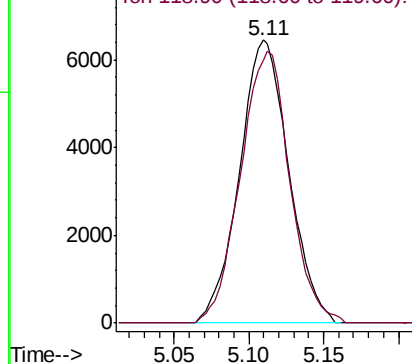
Ion Ratio Lower Upper

117 100

119 95.7 77.1 115.7



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.458 ug/L

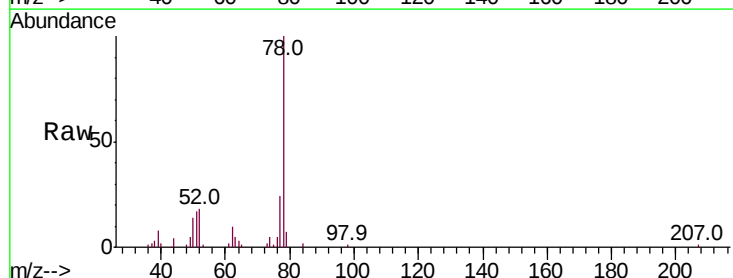
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

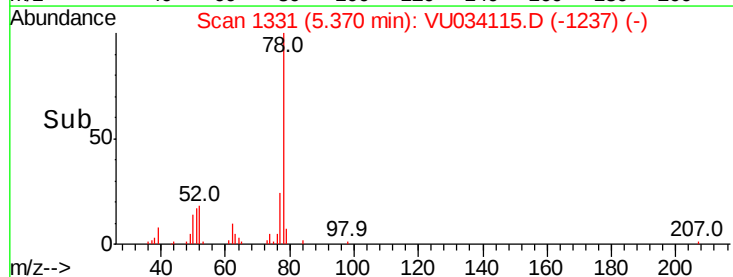
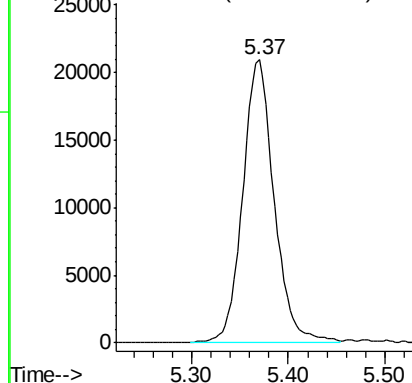
Lab File: VU034115.D

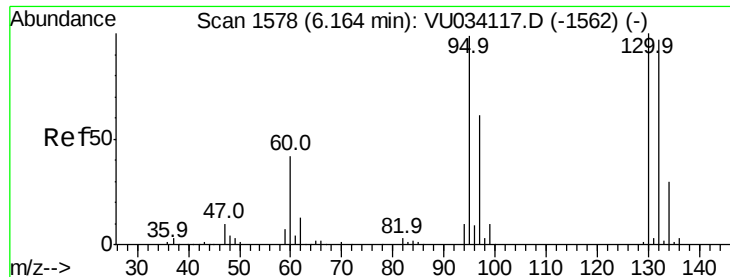
Acq: 31 Aug 2019 11:28

Tgt Ion: 78 Resp: 47355



Abundance Ion 78.10 (77.80 to 78.80): VU0

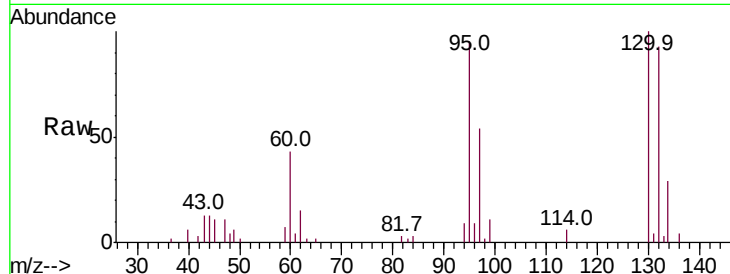




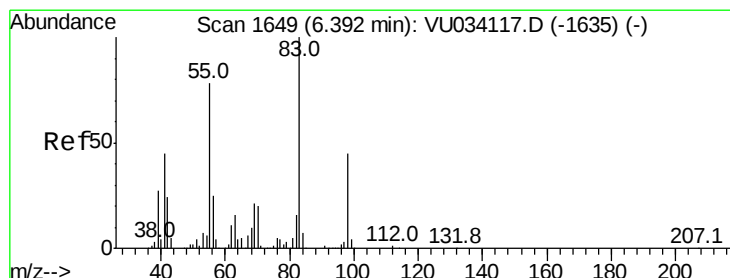
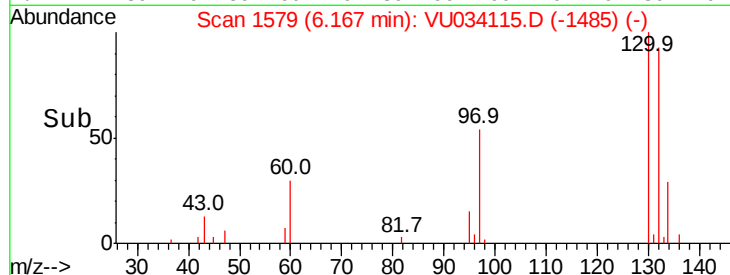
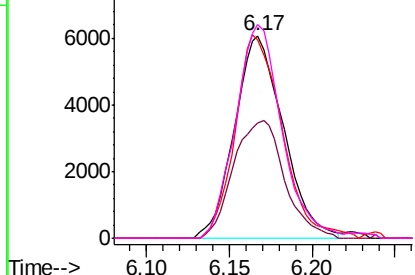
#34
 Trichloroethene
 Concen: 0.461 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 12427
 Ion Ratio Lower Upper
 95 100
 97 56.8 43.3 80.5
 132 97.9 68.6 127.4
 130 105.4 70.5 130.9

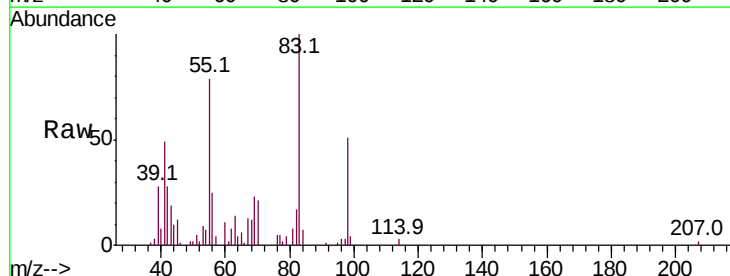


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

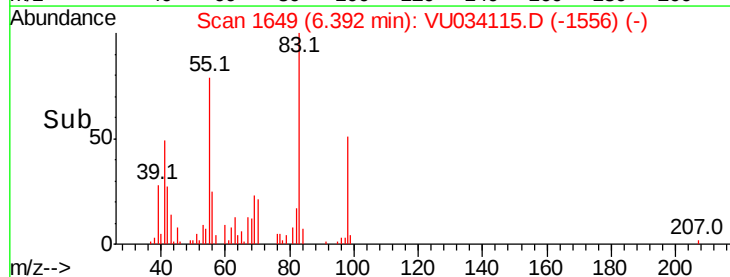
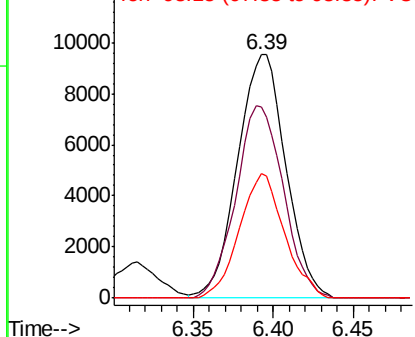


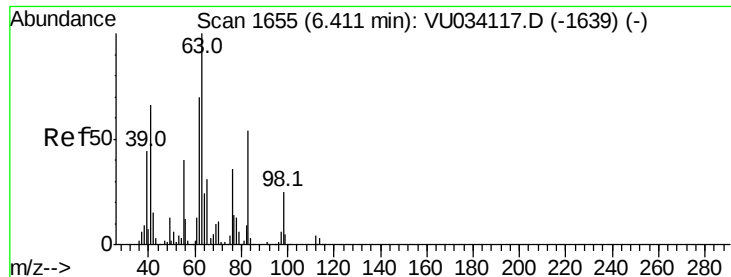
#35
 Methylcyclohexane
 Concen: 0.475 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Tgt Ion: 83 Resp: 19661
 Ion Ratio Lower Upper
 83 100
 55 77.7 62.6 94.0
 98 47.5 36.2 54.2



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: 0.452 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

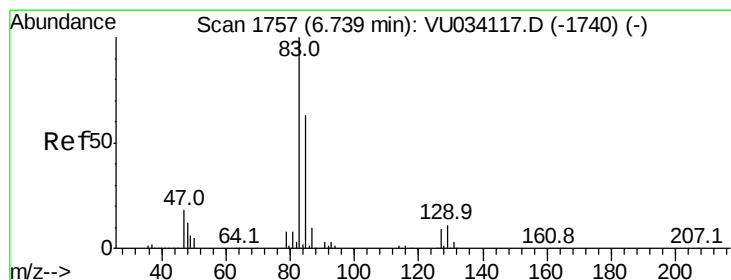
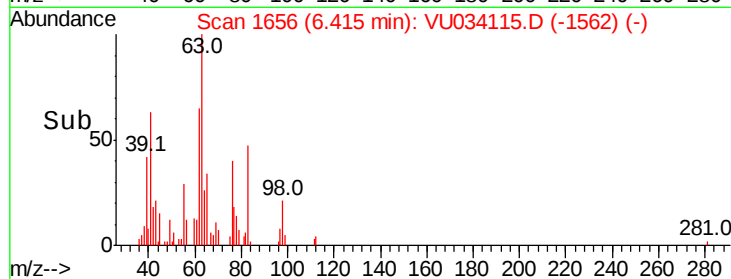
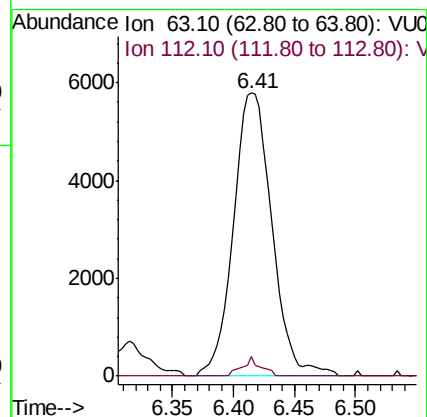
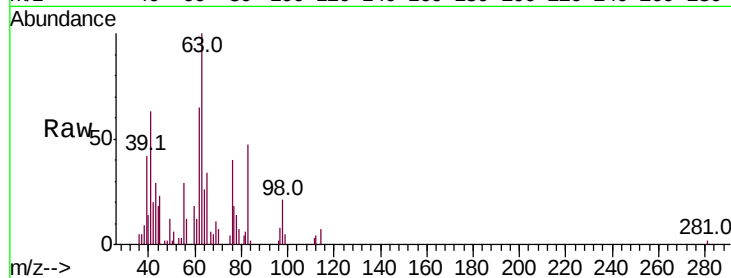
ClientSampleId :

Tot Ion: 63 Resp: 12703

Ion Ratio Lower Upper

63 100

112 3.1 3.3 4.9#



#38

Bromodichloromethane

Concen: 0.427 ug/L

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

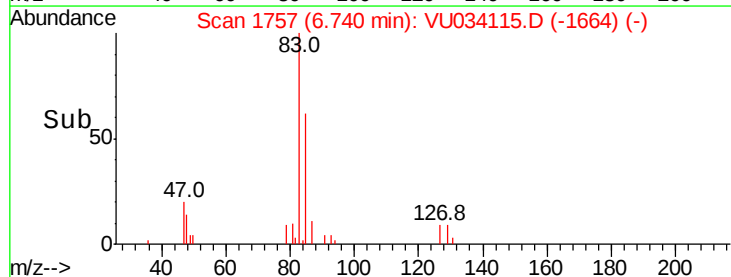
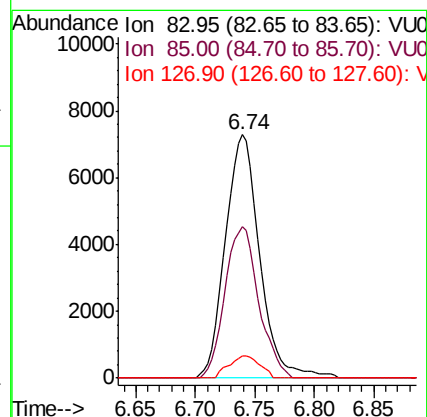
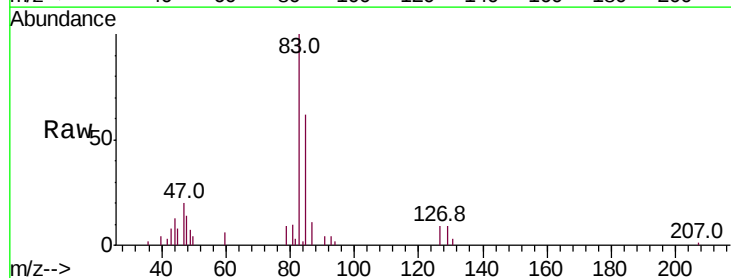
Tgt Ion: 83 Resp: 14604

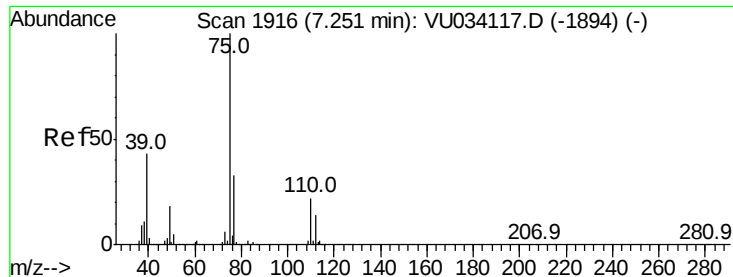
Ion Ratio Lower Upper

83 100

85 62.4 44.0 81.8

127 9.1 6.9 10.3

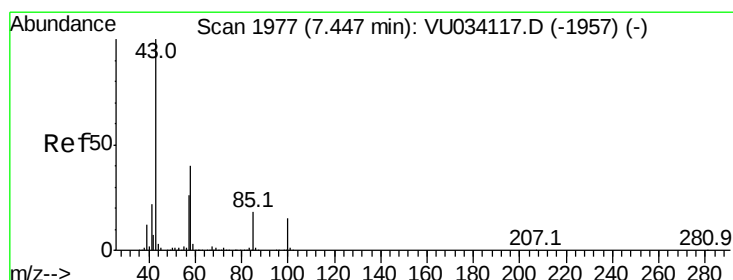
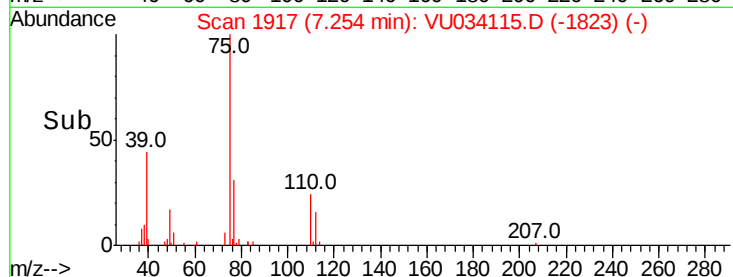
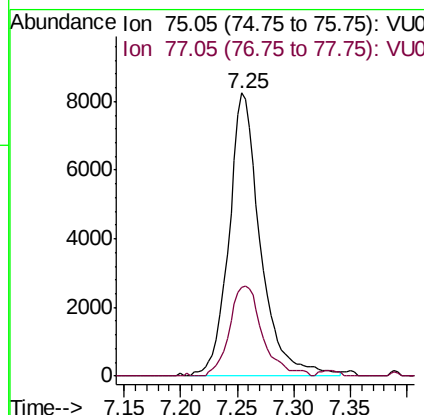
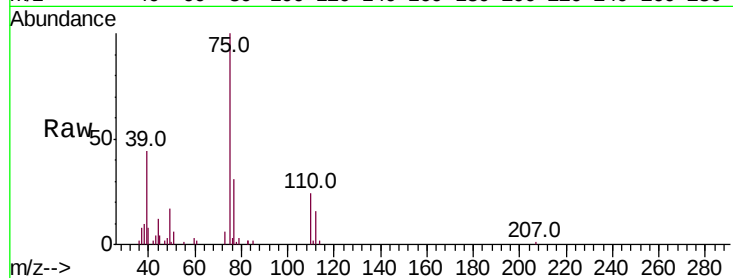




#39
 cis-1,3-Dichloropropene
 Concen: 0.431 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

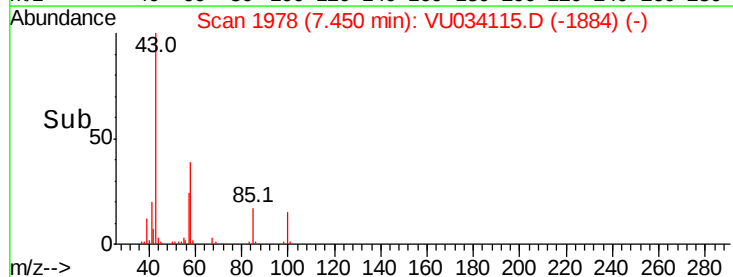
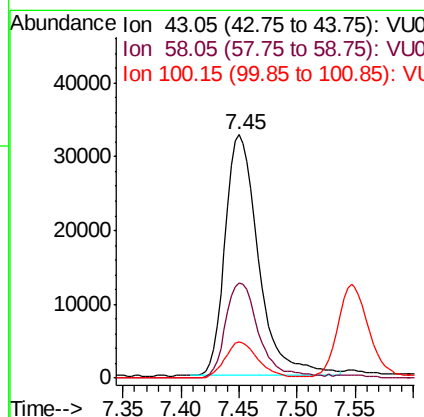
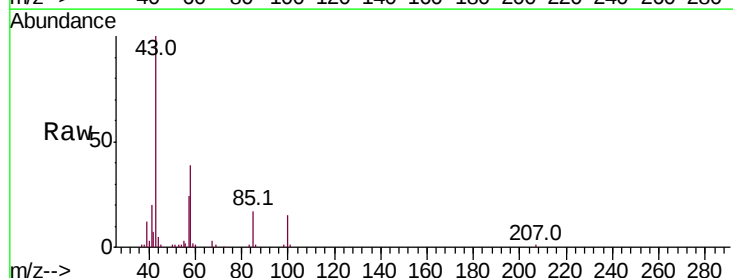
Instrument :
 MSVOA_U
 ClientSampleId :

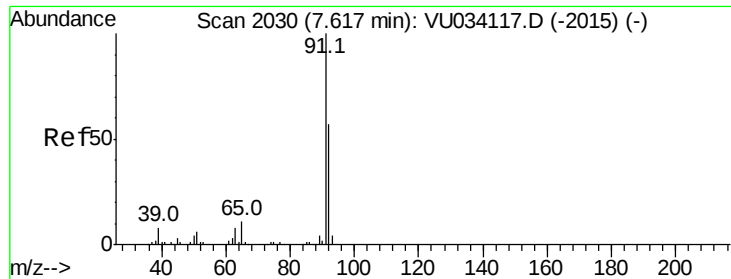
Tot Ion: 75 Resp: 16005
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.2 43.2



#40
 4-Methyl-2-pentanone
 Concen: 3.934 ug/L
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Tgt Ion: 43 Resp: 65306
 Ion Ratio Lower Upper
 43 100
 58 39.8 32.4 48.6
 100 15.2 12.2 18.2





#42

Toluene

Concen: 0.465 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

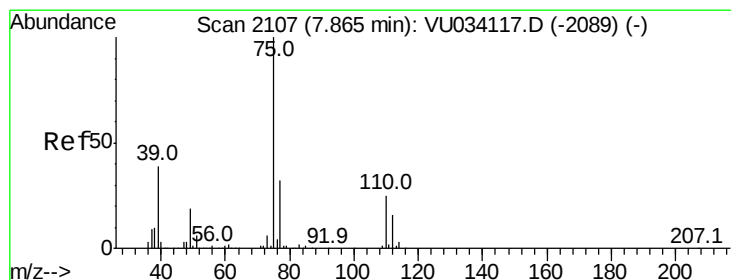
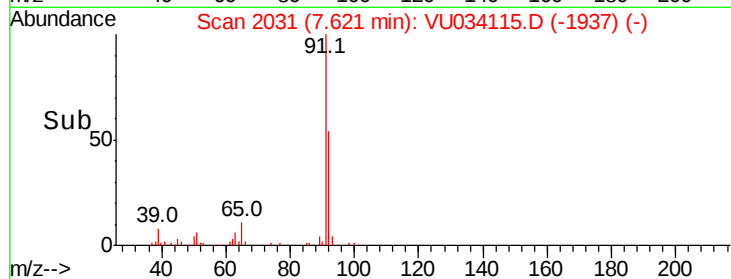
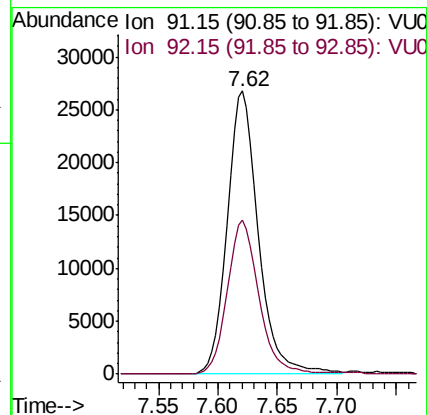
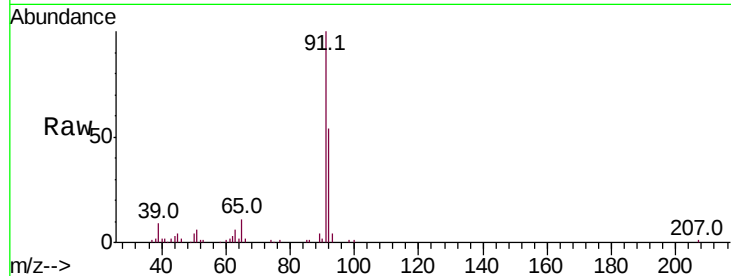
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 48626

Ion Ratio Lower Upper

91 100

92 54.4 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 0.392 ug/L

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU034115.D

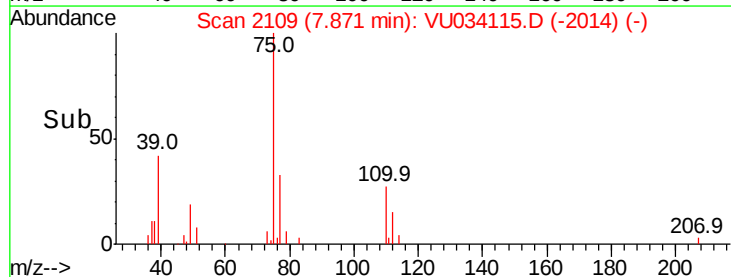
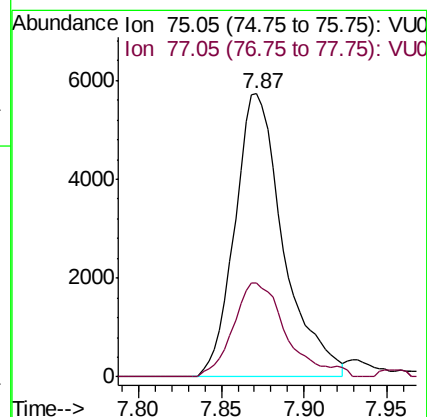
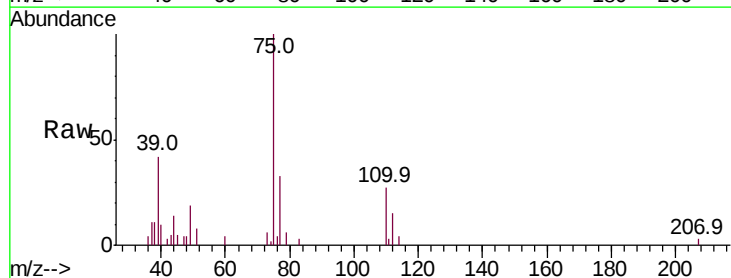
Acq: 31 Aug 2019 11:28

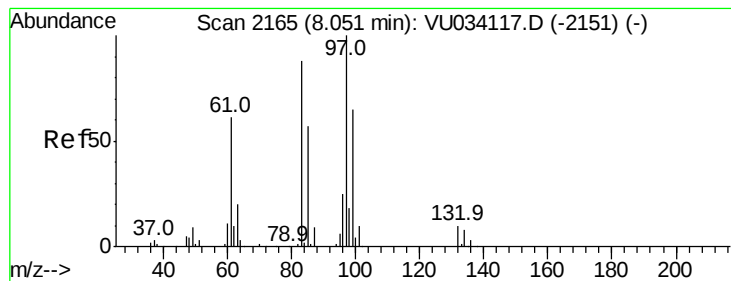
Tgt Ion: 75 Resp: 11691

Ion Ratio Lower Upper

75 100

77 33.2 22.7 42.3





#45

1,1,2-Trichloroethane

Concen: 0.414 ug/L

RT: 8.05 min Scan# 2166

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 7785

Ion	Ratio	Lower	Upper
97	100		
99	64.6	45.5	84.5
83	94.9	61.5	114.3
85	63.4	40.0	74.2

Abundance

Ion 96.95 (96.65 to 97.65): VU0

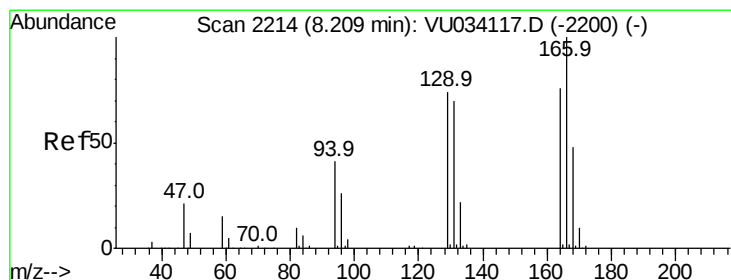
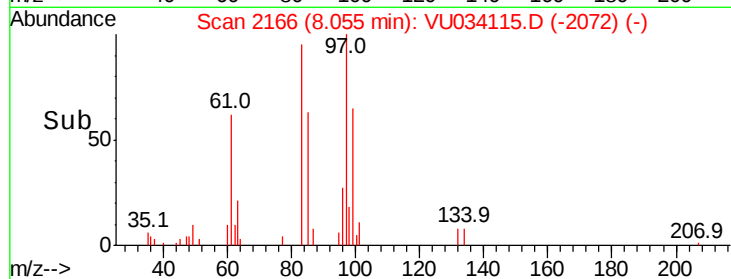
Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

8.05

Time-->



#47

Tetrachloroethene

Concen: 0.477 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Tgt Ion: 164 Resp: 10139

Ion	Ratio	Lower	Upper
164	100		
129	92.5	68.0	126.2
131	85.2	64.6	120.0
166	124.8	92.0	170.8

Abundance

Ion 163.90 (163.60 to 164.60): V

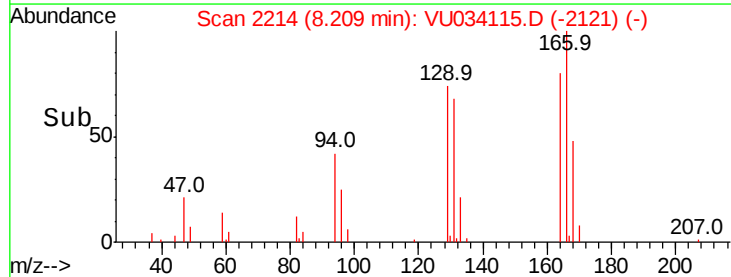
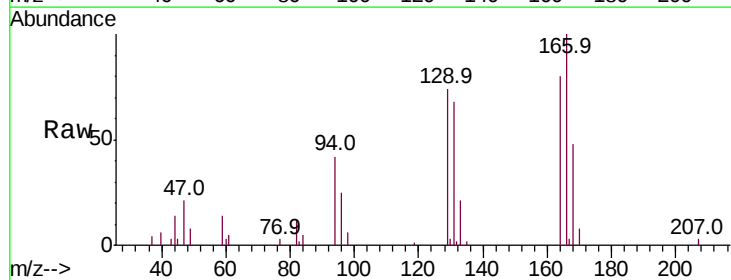
Ion 128.95 (128.65 to 129.65): V

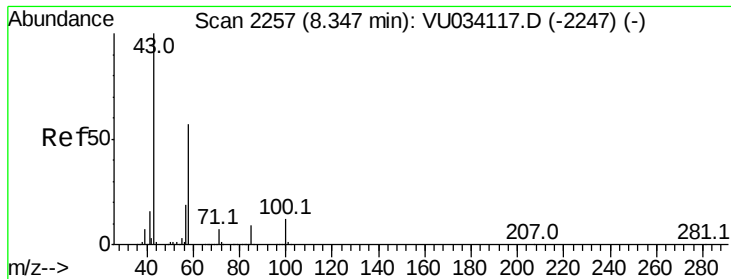
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

8.21

Time-->

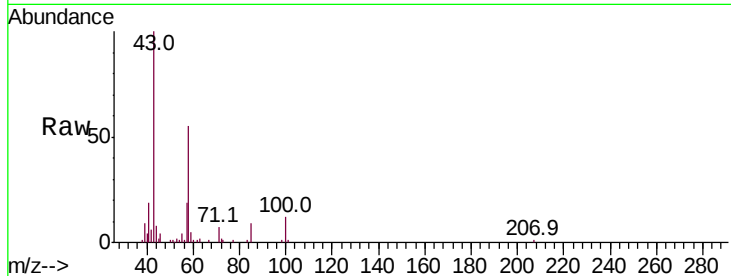




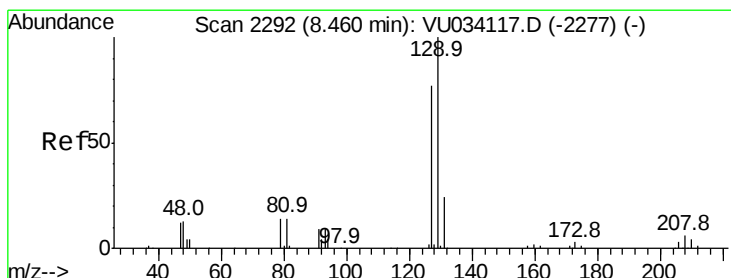
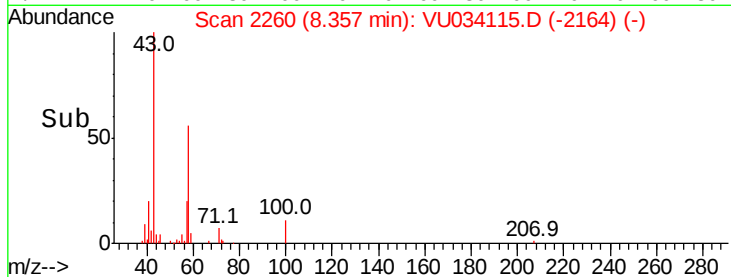
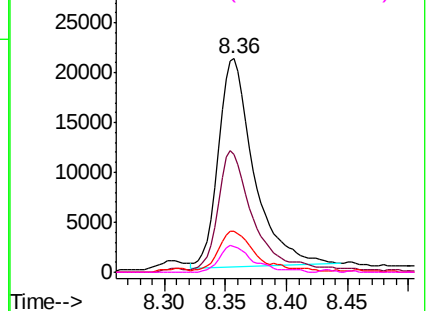
#48
2-Hexanone
Concen: 3.690 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.01 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	42772
Ion	Ratio	Lower	Upper
43	100		
58	56.0	44.9	67.3
57	18.9	15.0	22.6
100	11.8	9.2	13.8

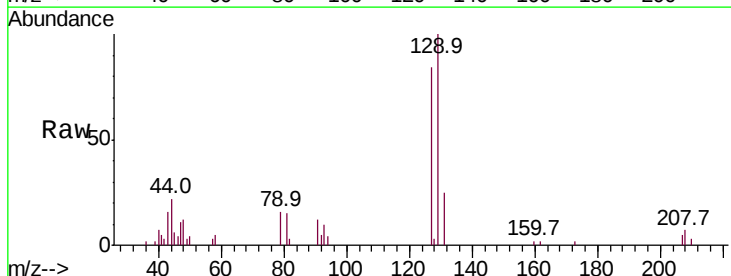


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

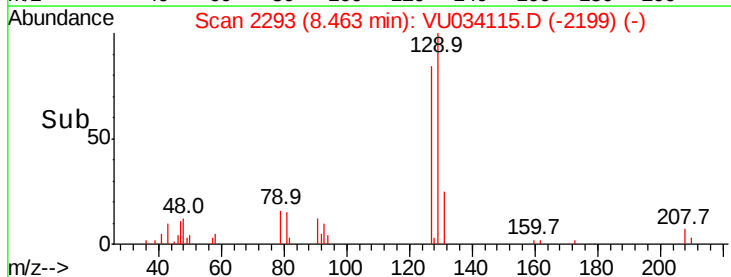
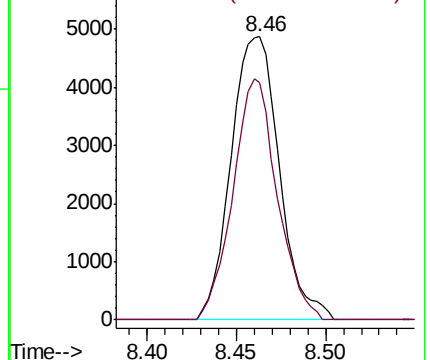


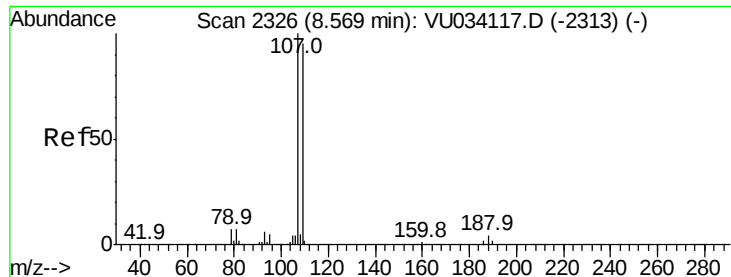
#49
Dibromochloromethane
Concen: 0.414 ug/L
RT: 8.46 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Tgt Ion:	129	Resp:	9178
Ion	Ratio	Lower	Upper
129	100		
127	83.6	54.2	100.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

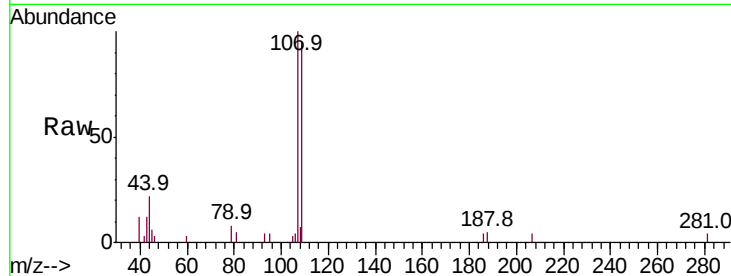




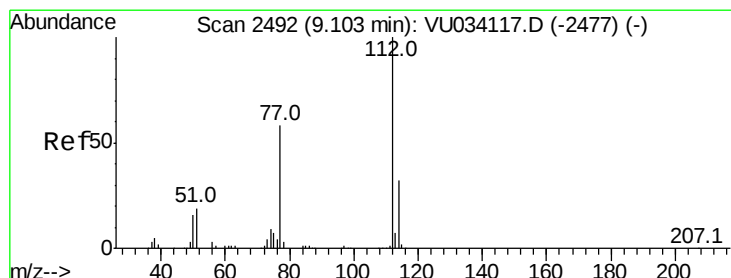
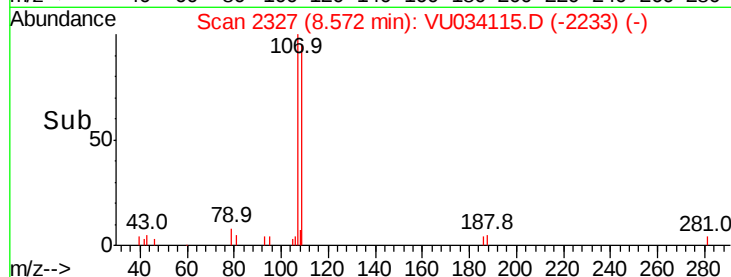
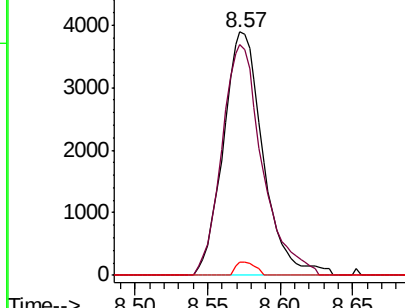
#50
 1,2-Dibromoethane
 Concen: 0.414 ug/L
 RT: 8.57 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 7387
 Ion Ratio Lower Upper
 107 100
 109 94.8 66.4 123.2
 188 5.2 3.4 5.0#

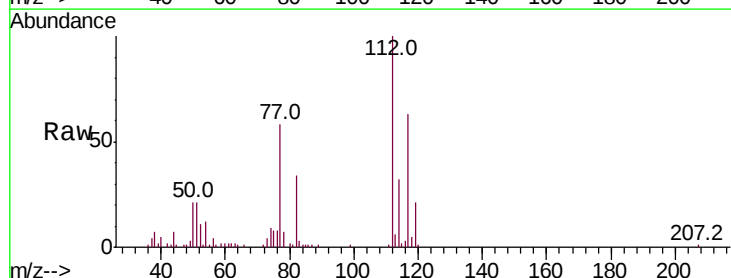


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

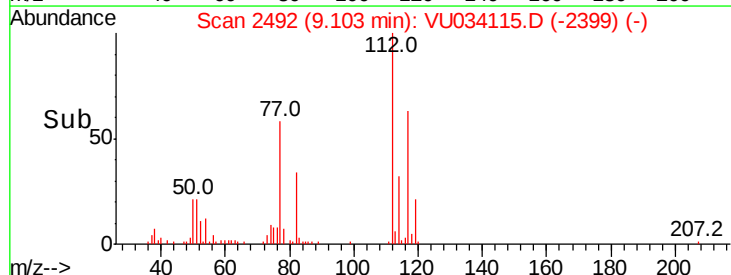
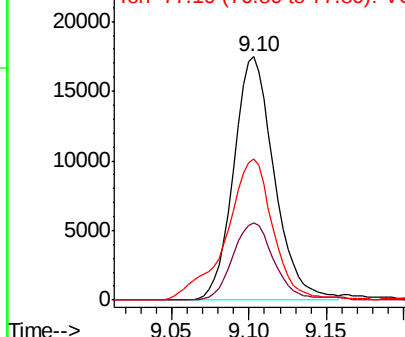


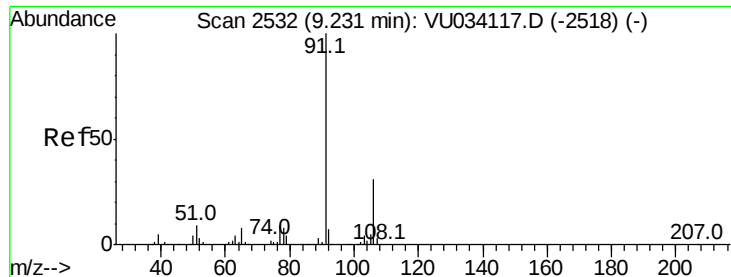
#51
 Chlorobenzene
 Concen: 0.463 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Tgt Ion:112 Resp: 31831
 Ion Ratio Lower Upper
 112 100
 114 31.7 22.6 42.0
 77 58.0 46.3 69.5



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: 0.465 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

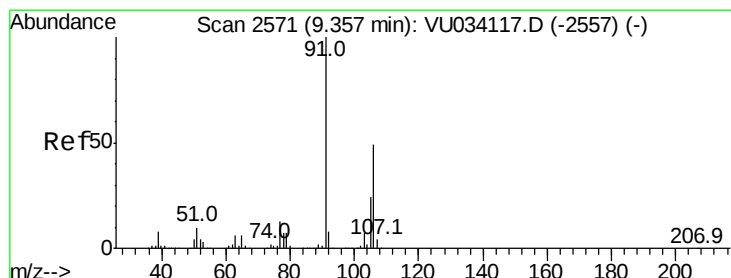
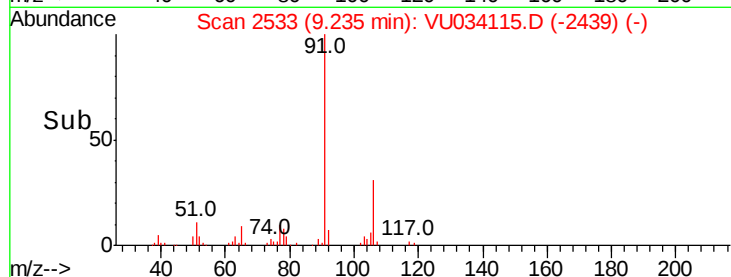
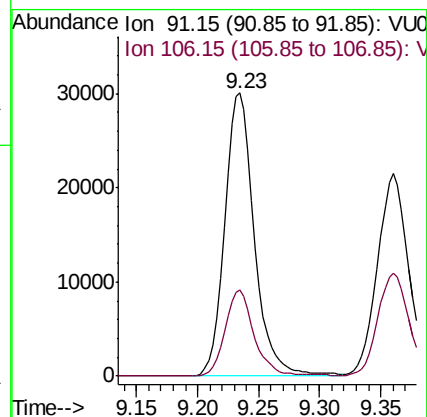
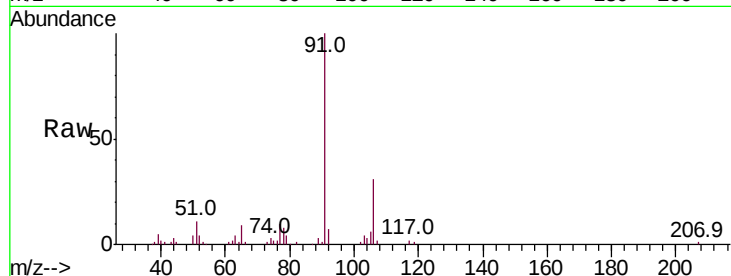
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 51310

Ion Ratio Lower Upper

91 100

106 30.6 21.4 39.8



#53

m,p-Xylene

Concen: 0.480 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU034115.D

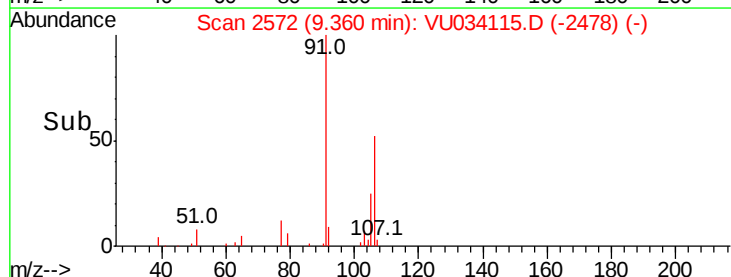
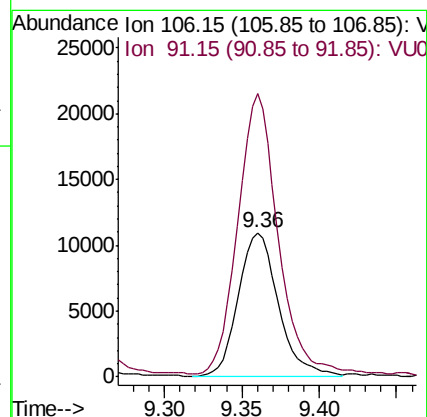
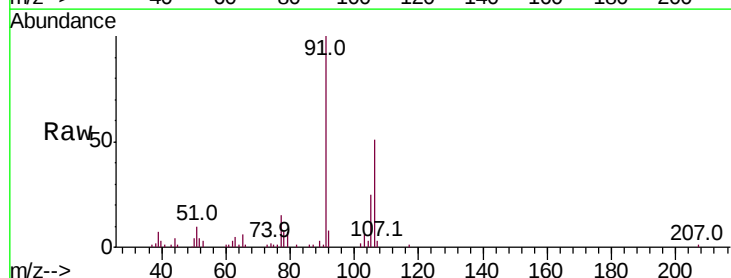
Acq: 31 Aug 2019 11:28

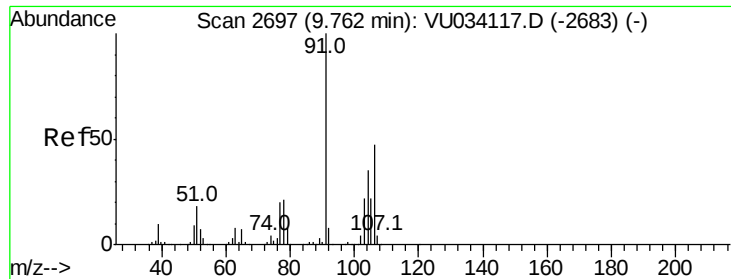
Tgt Ion: 106 Resp: 19860

Ion Ratio Lower Upper

106 100

91 196.6 143.4 266.4

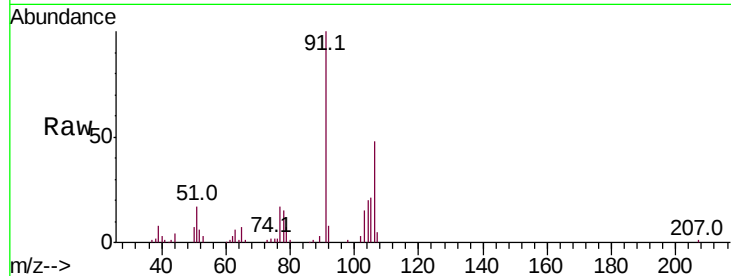




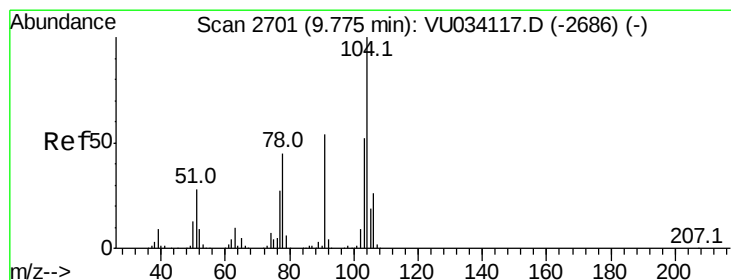
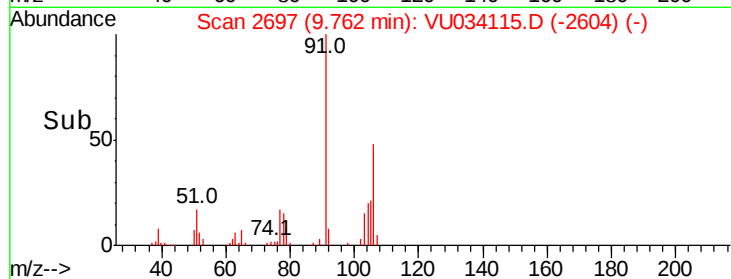
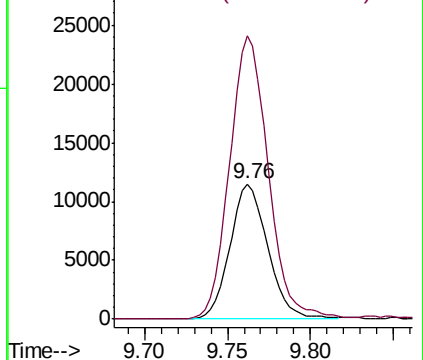
#54
o-Xylene
Concen: 0.465 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 18234
Ion Ratio Lower Upper
106 100
91 209.0 147.6 274.0

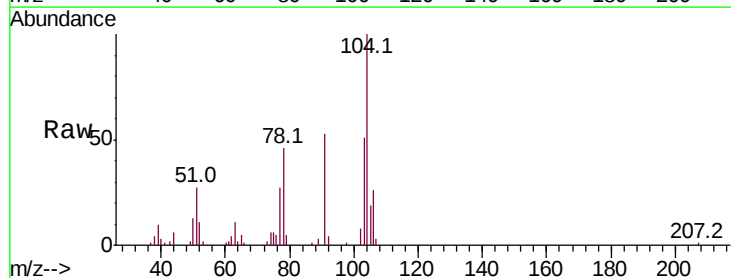


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

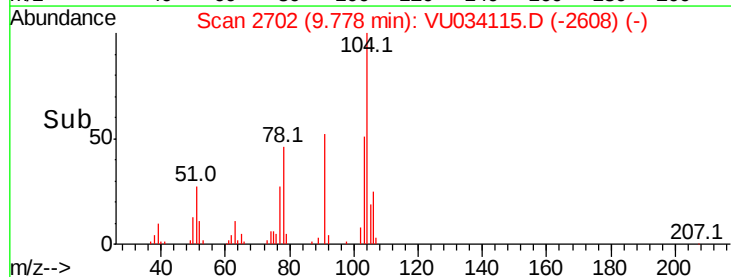
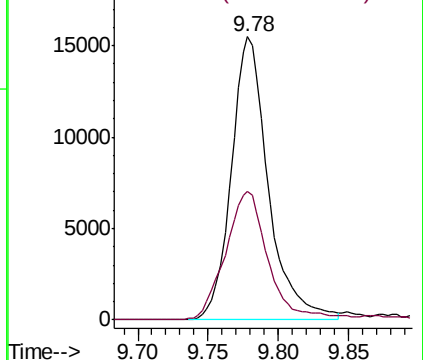


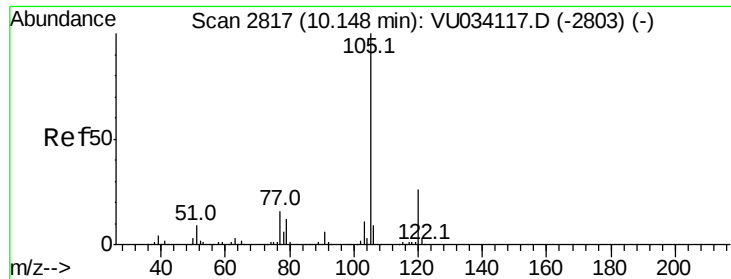
#55
Styrene
Concen: 0.425 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU034115.D
Acq: 31 Aug 2019 11:28

Tgt Ion:104 Resp: 28494
Ion Ratio Lower Upper
104 100
78 45.5 31.6 58.6



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





#56

Isopropylbenzene

Concen: 0.467 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

ClientSampleId :

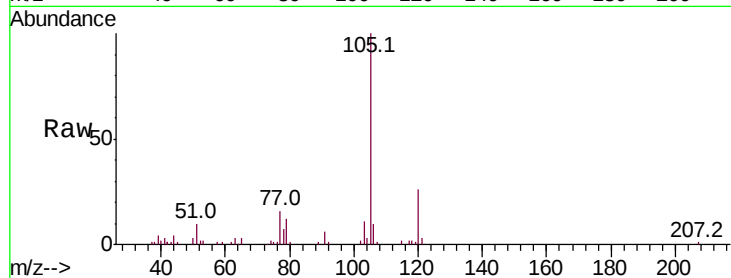
Tot Ion:105 Resp: 48736

Ion Ratio Lower Upper

105 100

120 26.0 21.0 31.4

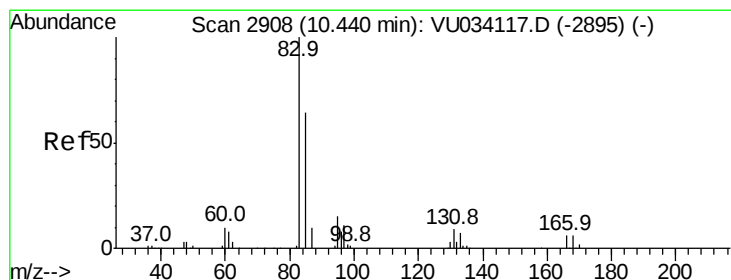
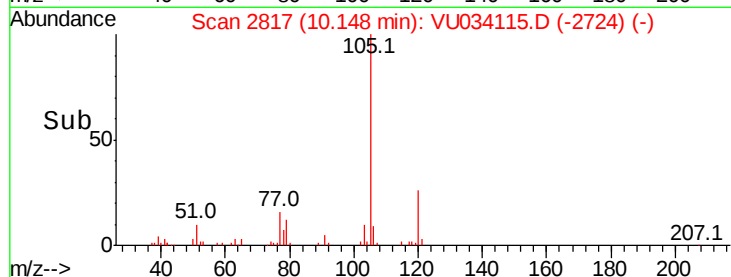
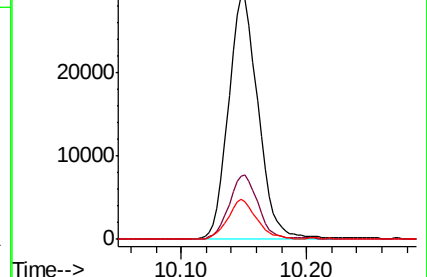
77 16.0 12.2 18.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.427 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

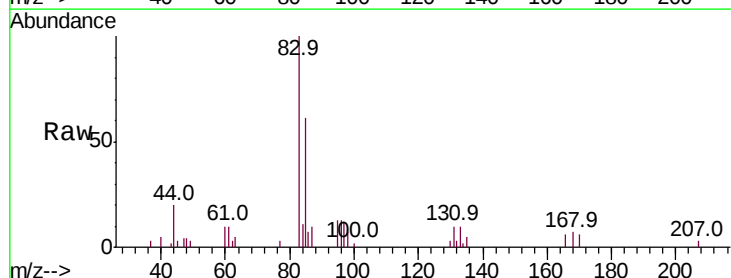
Tgt Ion: 83 Resp: 10522

Ion Ratio Lower Upper

83 100

85 60.9 45.2 84.0

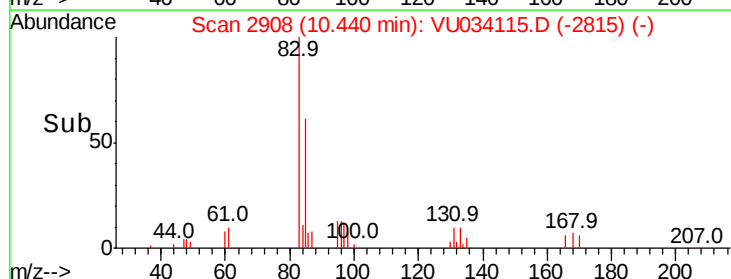
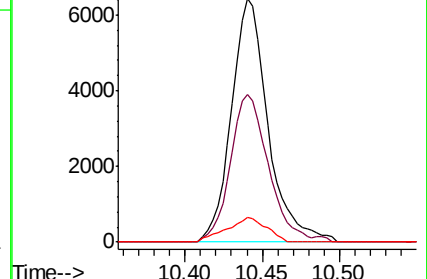
131 9.9 7.9 11.9

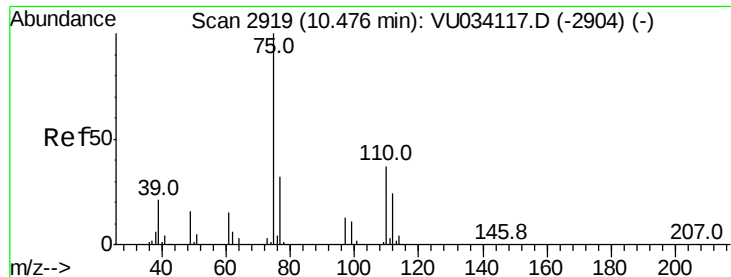


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.393 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

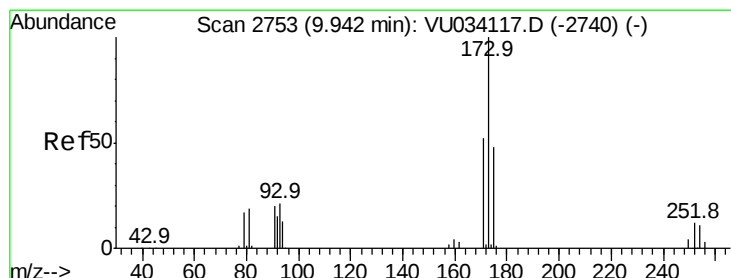
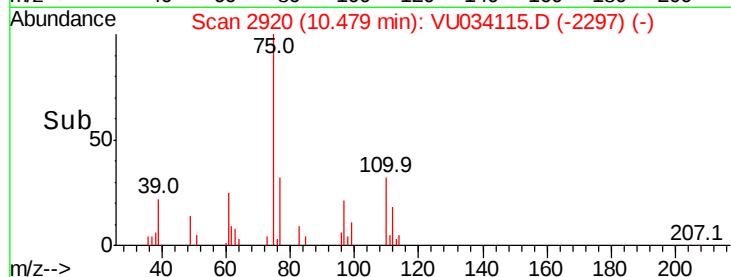
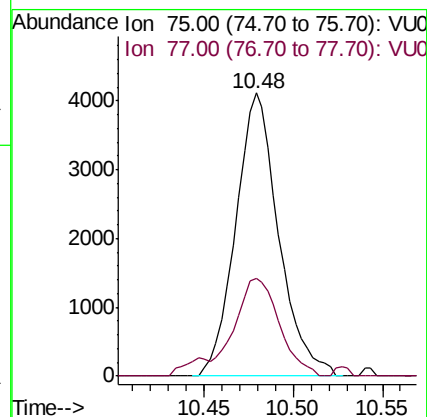
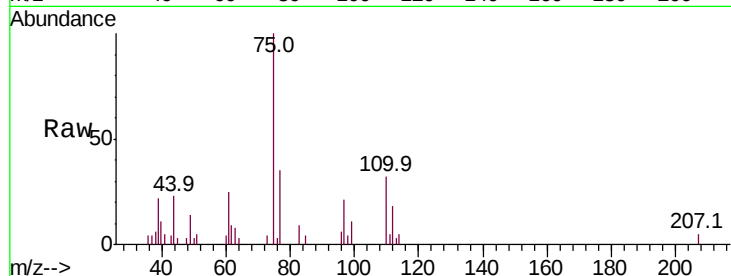
ClientSampleId :

Tot Ion: 75 Resp: 6905

Ion Ratio Lower Upper

75 100

77 35.6 26.0 39.0



#61

Bromoform

Concen: 0.402 ug/L

RT: 9.95 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

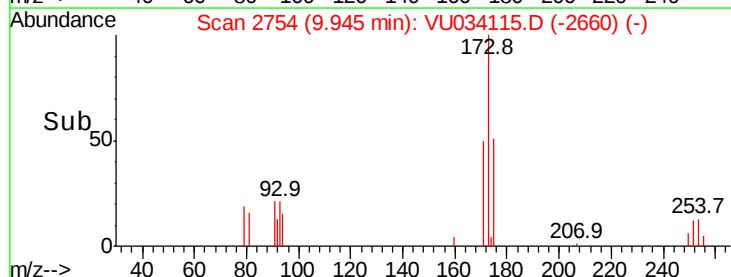
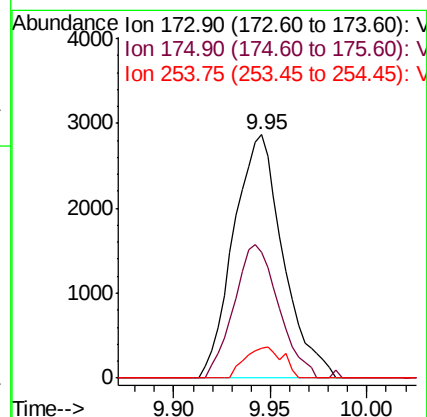
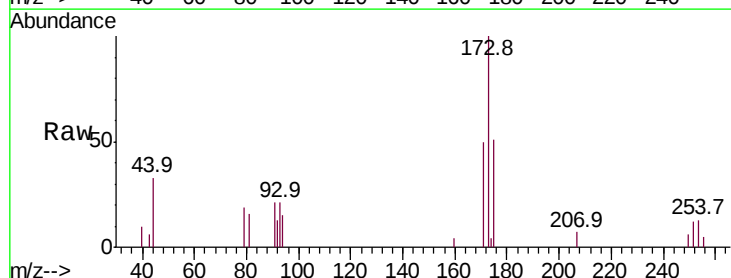
Tgt Ion:173 Resp: 5098

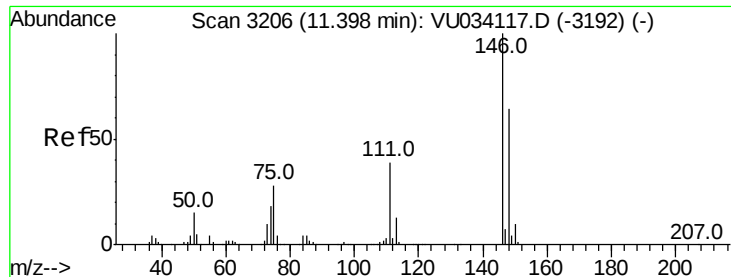
Ion Ratio Lower Upper

173 100

175 49.4 39.0 58.4

254 9.8 8.7 13.1





#62

1,3-Dichlorobenzene

Concen: 0.489 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

ClientSampleId :

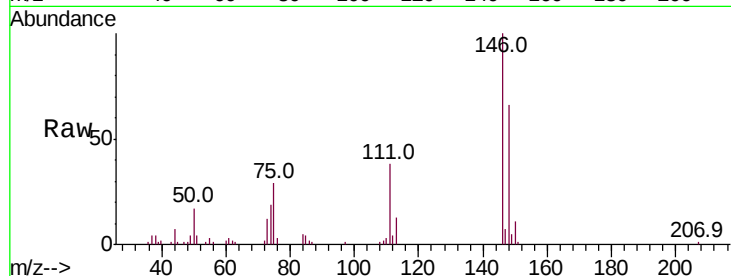
Tot Ion:146 Resp: 26389

Ion Ratio Lower Upper

146 100

111 38.0 27.6 51.4

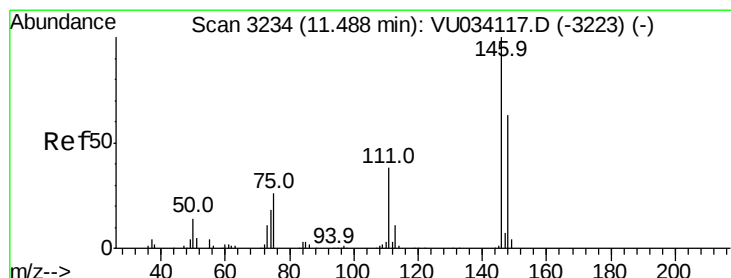
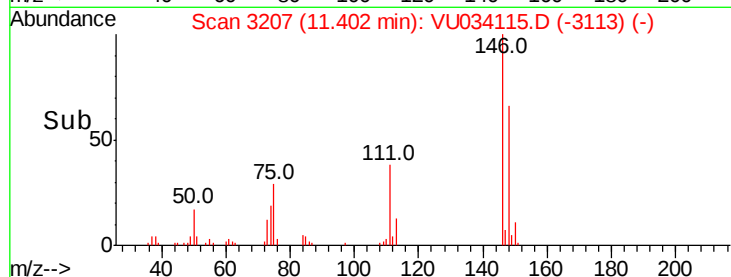
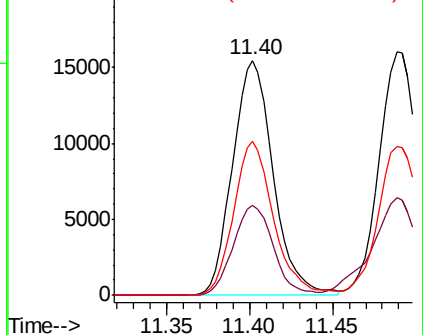
148 65.7 44.9 83.5



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: 0.497 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

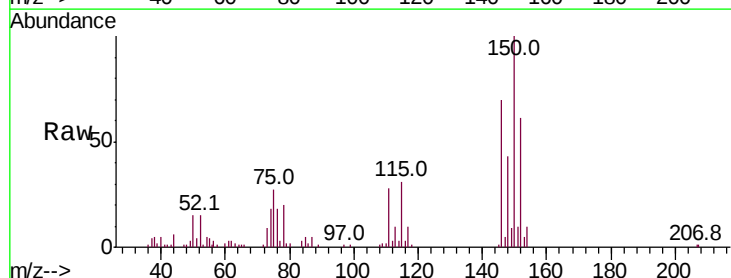
Tgt Ion:146 Resp: 27768

Ion Ratio Lower Upper

146 100

111 40.0 26.5 49.3

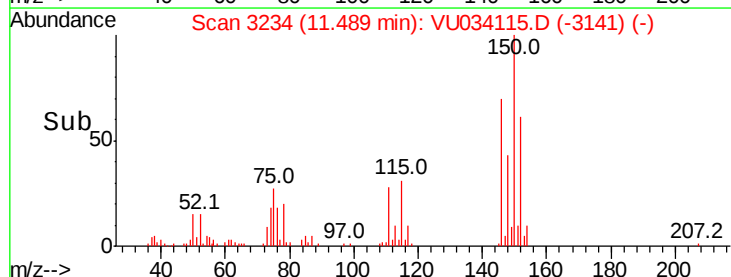
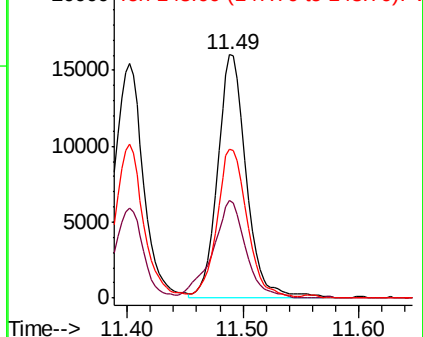
148 61.1 44.0 81.8

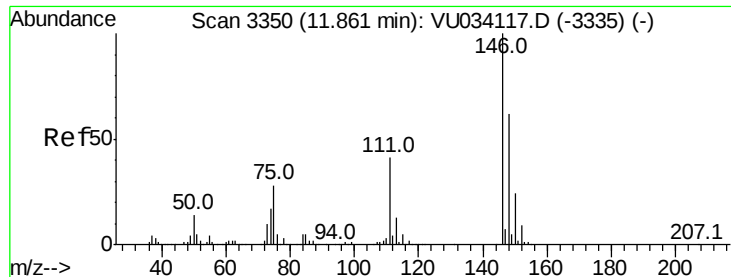


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

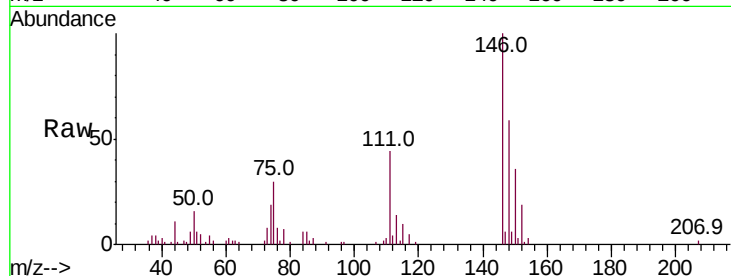




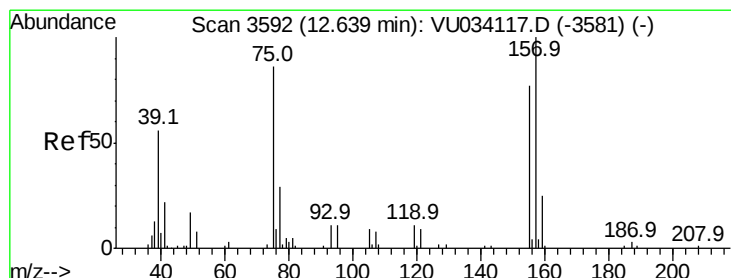
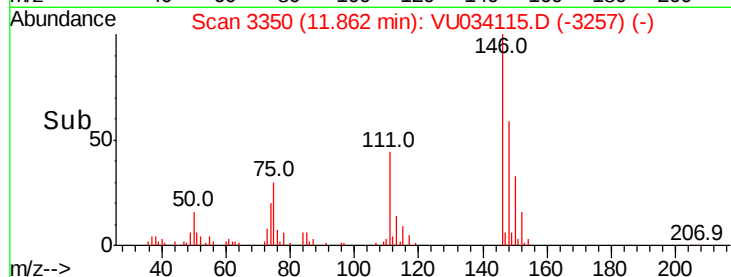
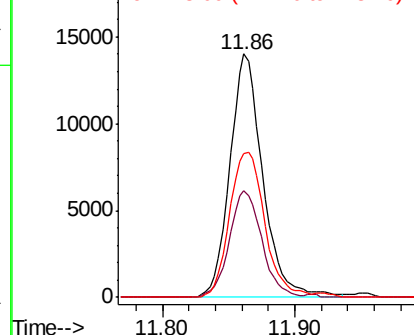
#65
 1,2-Dichlorobenzene
 Concen: 0.467 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 24142
 Ion Ratio Lower Upper
 146 100
 111 43.6 32.8 49.2
 148 59.1 49.4 74.0

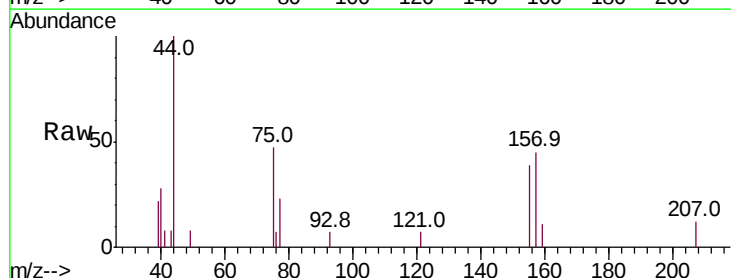


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

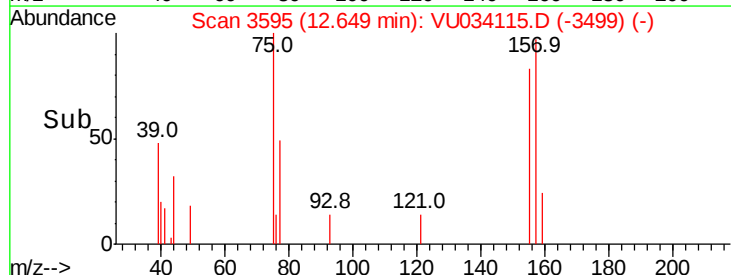
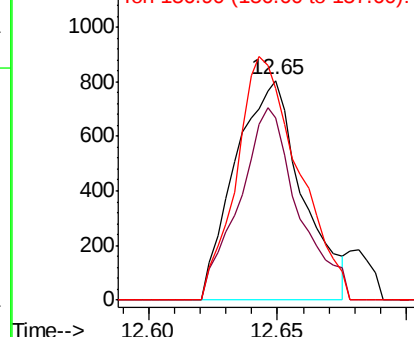


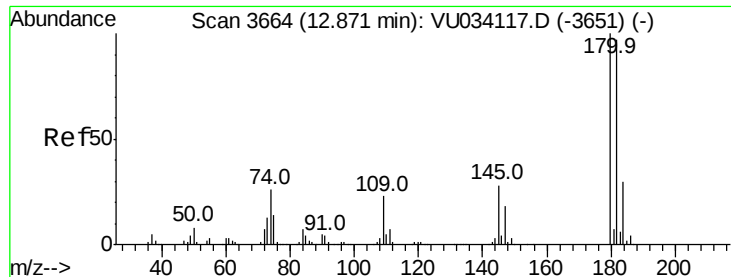
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.377 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. 0.01 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Tgt Ion: 75 Resp: 1453
 Ion Ratio Lower Upper
 75 100
 155 83.0 71.4 107.0
 157 96.5 92.6 138.8



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

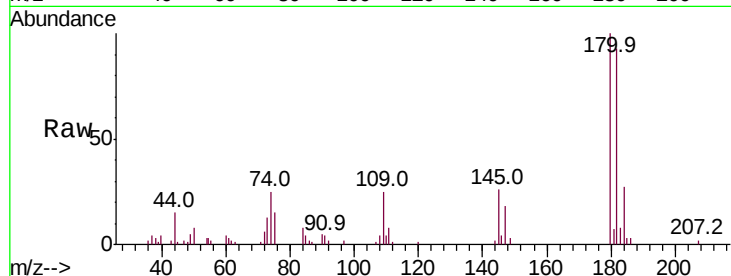




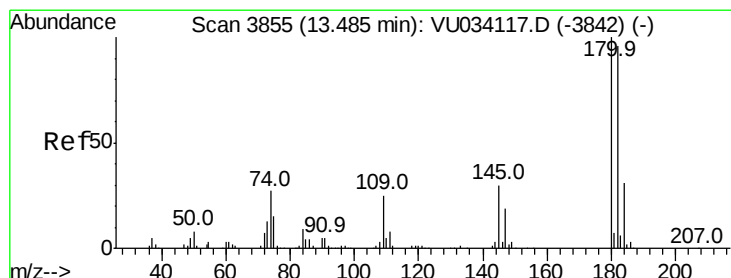
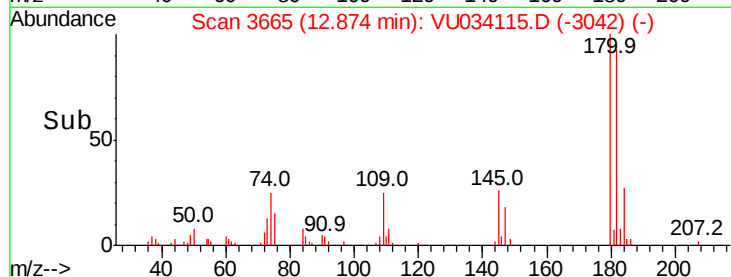
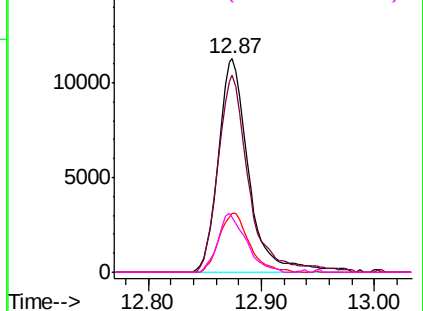
#67
 1,3,5-Trichlorobenzene
 Concen: 0.494 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	20922
Ion Ratio	Lower	Upper
180	100	
182	92.0	77.0 115.6
184	27.7	24.3 36.5
145	25.6	22.6 33.8

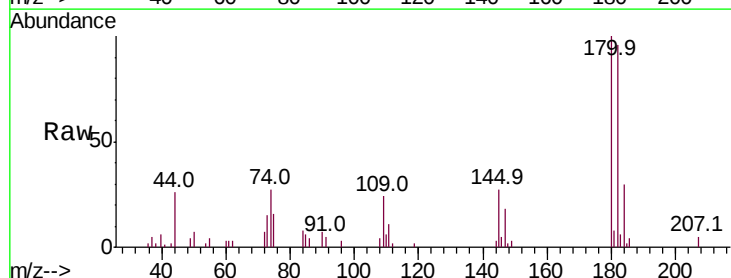


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

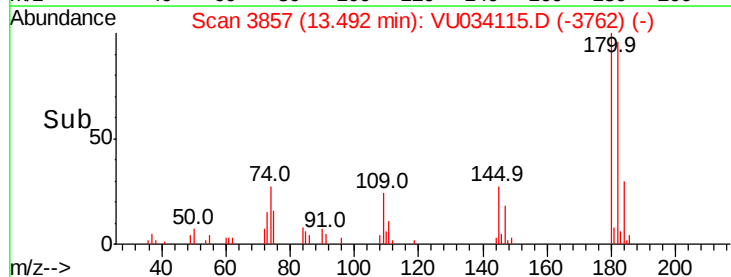
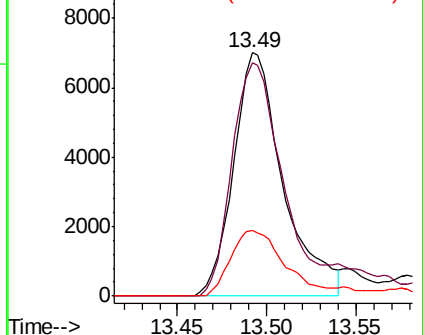


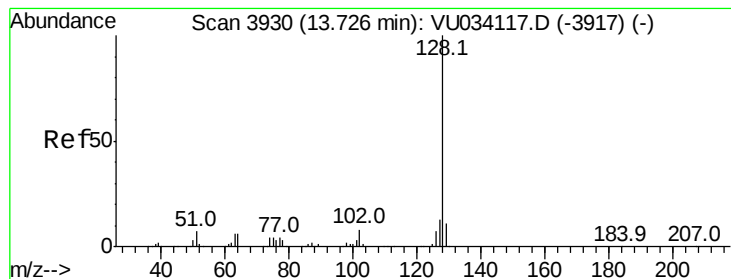
#68
 1,2,4-trichlorobenzene
 Concen: 0.428 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.01 min
 Lab File: VU034115.D
 Acq: 31 Aug 2019 11:28

Tgt Ion:180	Resp:	13604
Ion Ratio	Lower	Upper
180	100	
182	109.8	75.1 112.7
145	29.2	23.7 35.5



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: 0.436 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

Instrument :

MSVOA_U

ClientSampleId :

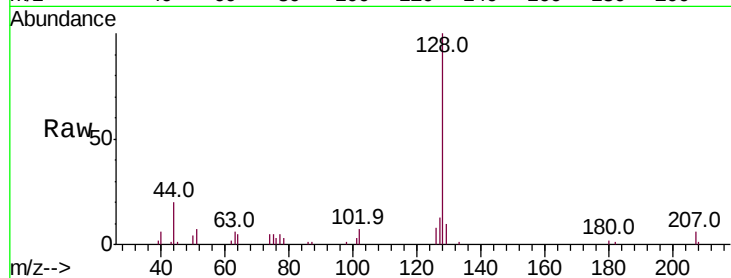
Tot Ion:128 Resp: 21407

Ion Ratio Lower Upper

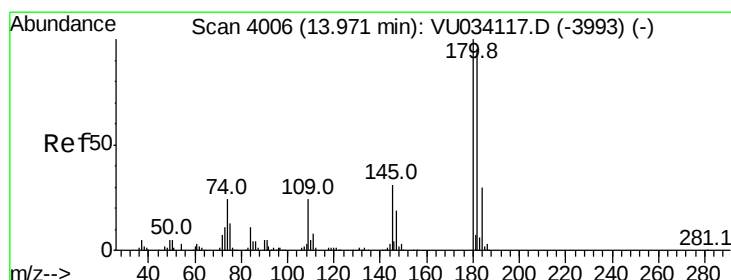
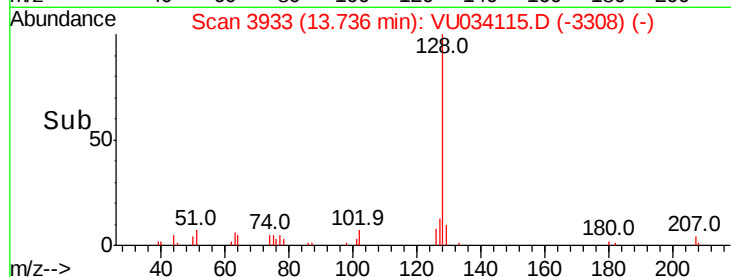
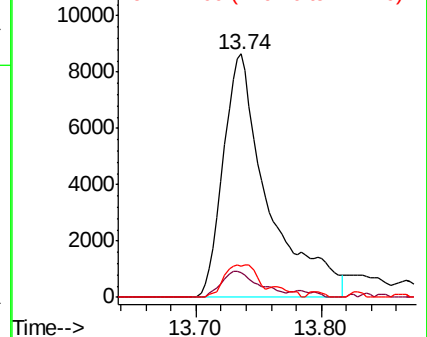
128 100

129 8.9 8.6 13.0

127 10.0 10.3 15.5#



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: 0.430 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU034115.D

Acq: 31 Aug 2019 11:28

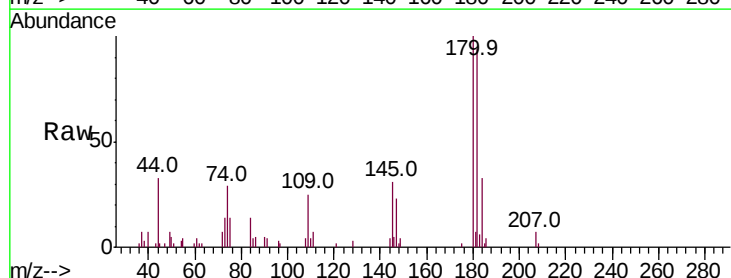
Tgt Ion:180 Resp: 13053

Ion Ratio Lower Upper

180 100

182 103.7 76.8 115.2

145 33.3 24.6 37.0



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

