

Data File : VU034650.D
Acq On : 19 Sep 2019 15:36
Operator : JC/SP
Sample : VSTD005
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Quant Time: Sep 19 17:20:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Sep 19 17:16:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	481070	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	457843	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	200749	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	28465	12.26	ug/L	0.00
7) Chloroethane-d5	1.67	69	22320	12.50	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	47835	10.07	ug/L	0.00
21) 2-Butanone-d5	4.17	46	31885	12.18	ug/L	0.02
24) Chloroform-d	4.62	84	38530	7.31	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	30363	9.44	ug/L	0.00
32) Benzene-d6	5.32	84	79271	7.87	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	27561	7.35	ug/L	0.00
41) Toluene-d8	7.55	98	75127	7.69	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	12637	7.07	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	23994	11.80	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	37684	6.44	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	25423	7.10	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	30645	10.339 ug/L	98
3) Chloromethane	1.32	50	37586	12.426 ug/L	97
5) Vinyl chloride	1.40	62	32975	11.104 ug/L	96
6) Bromomethane	1.62	94	18446	11.882 ug/L	94
8) Chloroethane	1.69	64	19209	11.289 ug/L	95
9) Trichlorofluoromethane	1.88	101	42393	10.088 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	21021	8.395 ug/L	100
12) 1,1-Dichloroethene	2.27	96	19265	8.426 ug/L	97
13) Acetone	2.31	43	64676	27.499 ug/L	94
14) Carbon disulfide	2.46	76	63836	11.373 ug/L	97
15) Methyl Acetate	2.60	43	33100	8.599 ug/L	98
16) Methylene chloride	2.68	84	25698	8.504 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	20861	8.525 ug/L	89
18) Methyl tert-butyl Ether	2.98	73	77365	7.636 ug/L	97
19) 1,1-Dichloroethane	3.42	63	48493	8.802 ug/L	97
20) cis-1,2-Dichloroethene	4.21	96	24381	7.693 ug/L	90
22) 2-Butanone	4.25	43	63570	21.247 ug/L	82
23) Bromochloromethane	4.53	128	11709	7.826 ug/L	92
25) Chloroform	4.65	83	49452	8.583 ug/L	97
27) 1,2-Dichloroethane	5.39	62	40141	9.840 ug/L	100
29) Cyclohexane	4.97	56	47522	10.647 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	40397	8.830 ug/L	92
31) Carbon tetrachloride	5.11	117	32664	8.457 ug/L	97
33) Benzene	5.37	78	95269	8.203 ug/L	100
34) Trichloroethene	6.17	95	24656	8.523 ug/L	95
35) Methylcyclohexane	6.39	83	40992	9.346 ug/L	97
37) 1,2-Dichloropropane	6.41	63	29055	8.243 ug/L	99
38) Bromodichloromethane	6.74	83	34285	7.440 ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	43297	8.176 ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	106573	17.381 ug/L	100

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VSTD00531

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Quant Title : VOC Analysis
QLast Update : Thu Sep 19 17:16:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	103027	8.228	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	35678	7.347	ug/L	94
45) 1,1,2-Trichloroethane	8.05	97	22551	7.010	ug/L	98
46) Tetrachloroethene	8.21	164	15772	8.213	ug/L	92
48) 2-Hexanone	8.35	43	83339	18.092	ug/L	96
49) Dibromochloromethane	8.46	129	24309	6.673	ug/L	95
50) 1,2-Dibromoethane	8.57	107	23469	6.980	ug/L #	96
51) Chlorobenzene	9.10	112	64904	7.934	ug/L	98
52) Ethylbenzene	9.23	91	120399	8.310	ug/L	98
53) m,p-Xylene	9.36	106	41067	7.884	ug/L	96
54) o-xylene	9.76	106	39010	7.382	ug/L	91
55) Styrene	9.77	104	65533	7.205	ug/L	97
56) Isopropylbenzene	10.14	105	110349	7.764	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	43669	6.827	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	36329	7.545	ug/L	100
61) Bromoform	9.94	173	15500	6.270	ug/L	93
62) 1,3-Dichlorobenzene	11.40	146	43463	7.487	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	46109	7.866	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	44387	7.580	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.64	75	8369	6.308	ug/L	97
67) 1,3,5-Trichlorobenzene	12.87	180	29257	7.733	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	19862	6.145	ug/L	98
69) Naphthalene	13.73	128	72509	6.072	ug/L	98
70) 1,2,3-Trichlorobenzene	13.97	180	22075	6.671	ug/L	95

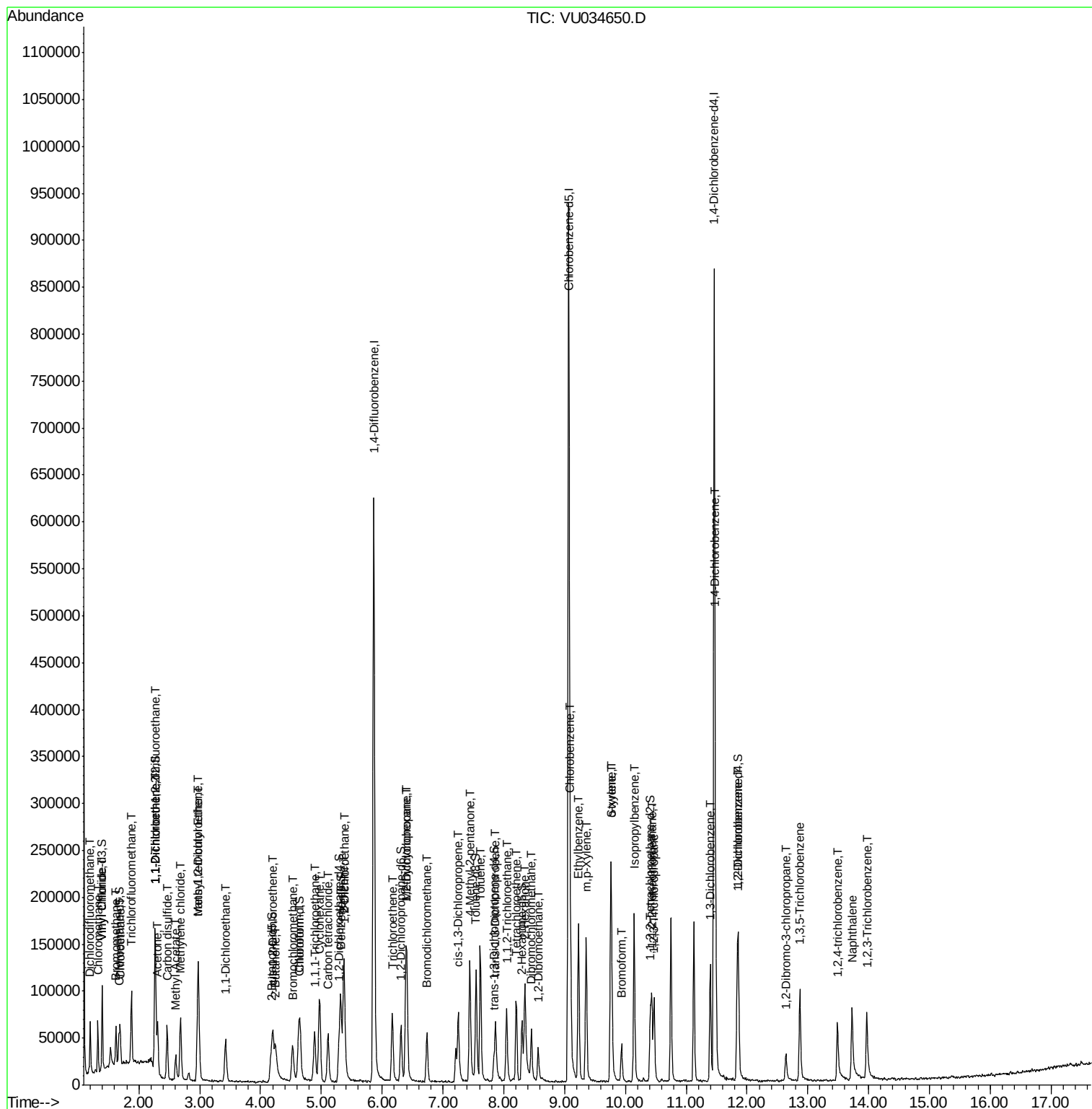
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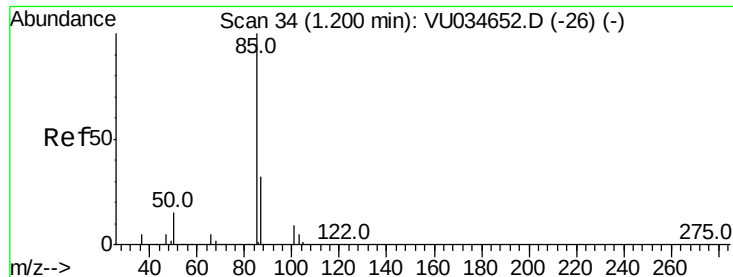
Data File : VU034650.D

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Acq On       : 19 Sep 2019   15:36
Operator     : JC/SP
Sample       : VSTD005
Misc         : 5.0mL/MSVOA_U/WATER
ALS Vial     : 3      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Quant Time: Sep 19 17:20:01 2019
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
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#2

Dichlorodifluoromethane

Concen: 10.339 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

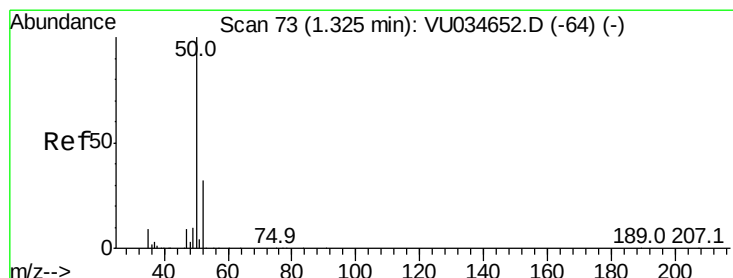
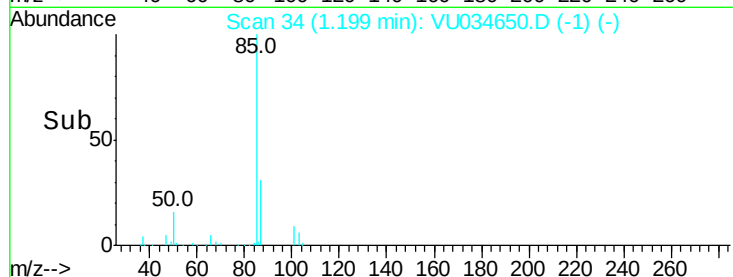
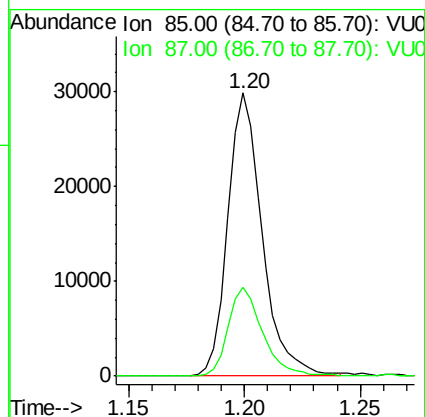
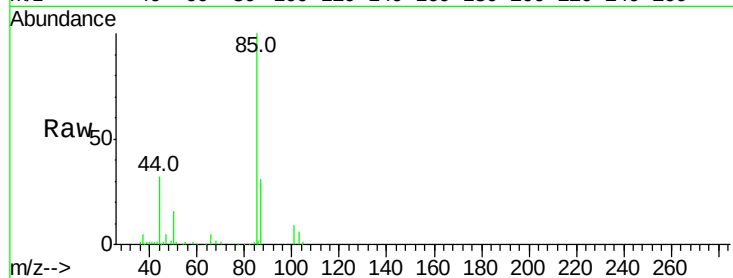
VSTD00531

Tgt Ion: 85 Resp: 30645

Ion Ratio Lower Upper

85 100

87 31.0 25.5 38.3



#3

Chloromethane

Concen: 12.426 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU034650.D

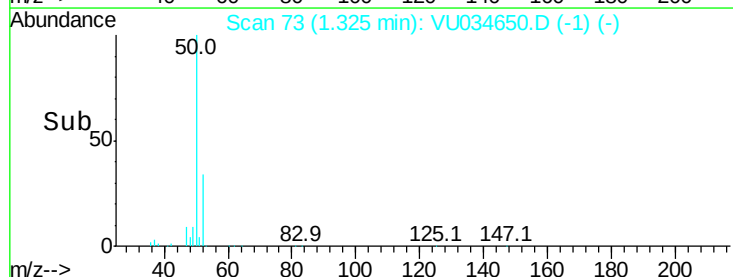
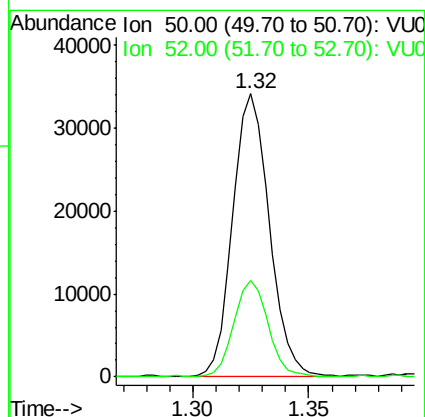
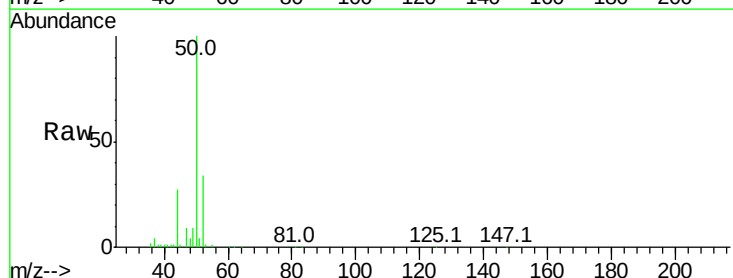
Acq: 19 Sep 2019 15:36

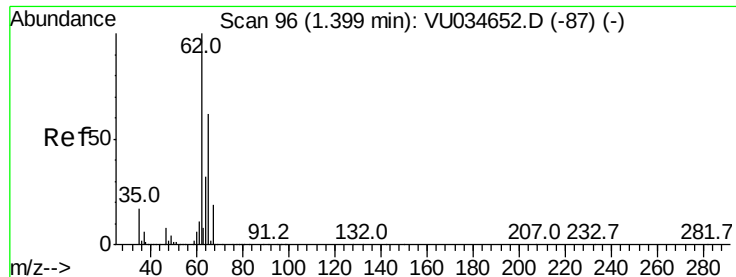
Tgt Ion: 50 Resp: 37586

Ion Ratio Lower Upper

50 100

52 34.2 22.7 42.1





#5

Vinyl chloride

Concen: 11.104 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

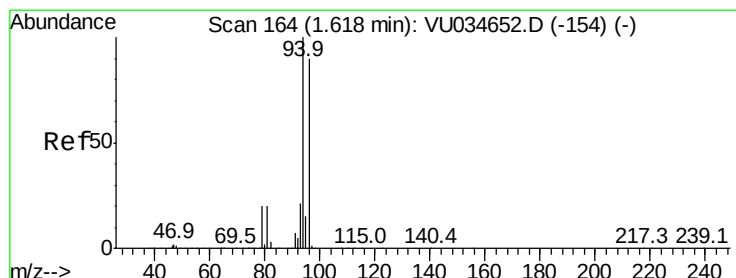
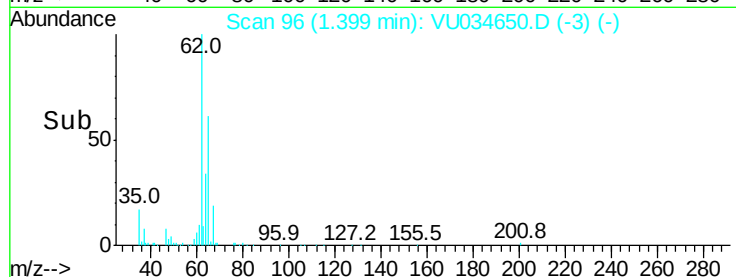
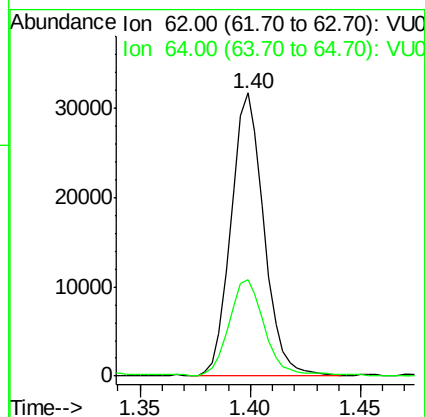
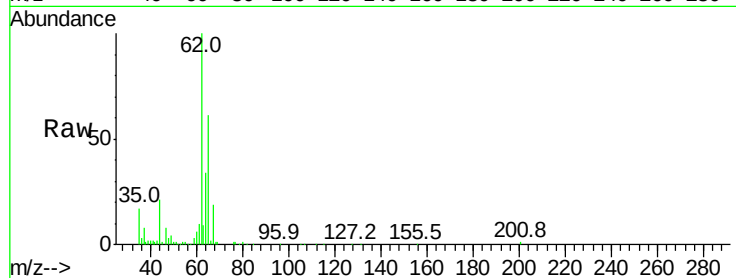
VSTD00531

Tgt Ion: 62 Resp: 32975

Ion Ratio Lower Upper

62 100

64 34.1 22.2 41.2



#6

Bromomethane

Concen: 11.882 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034650.D

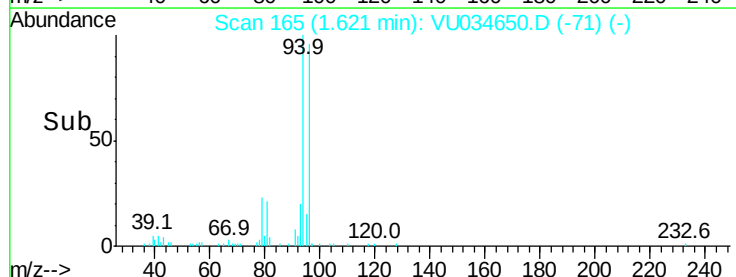
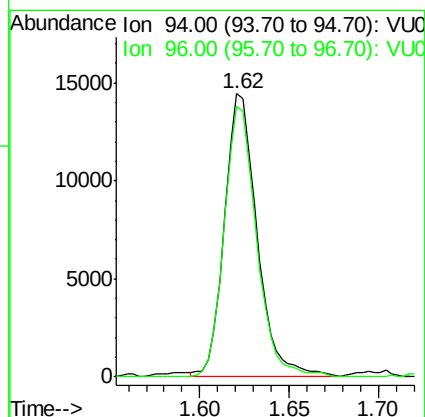
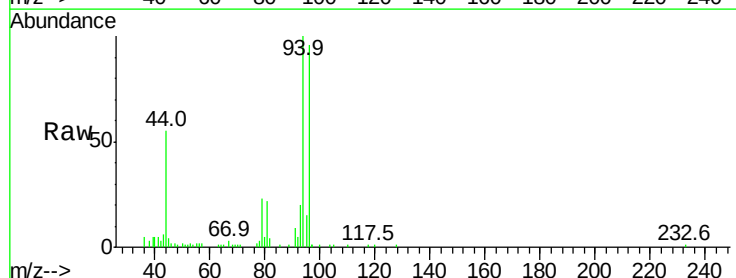
Acq: 19 Sep 2019 15:36

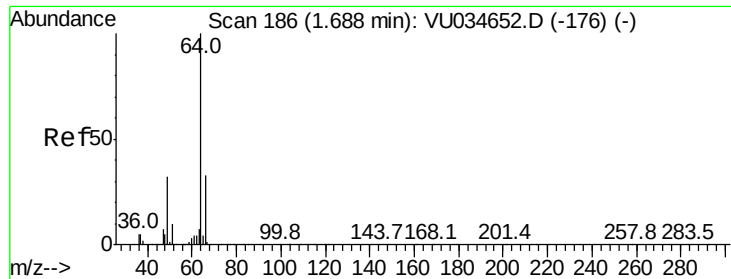
Tgt Ion: 94 Resp: 18446

Ion Ratio Lower Upper

94 100

96 95.6 62.8 116.6





#8

Chloroethane

Concen: 11.289 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

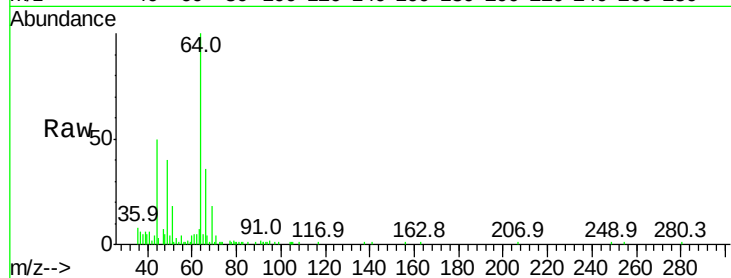
VSTD00531

Tgt Ion: 64 Resp: 19209

Ion Ratio Lower Upper

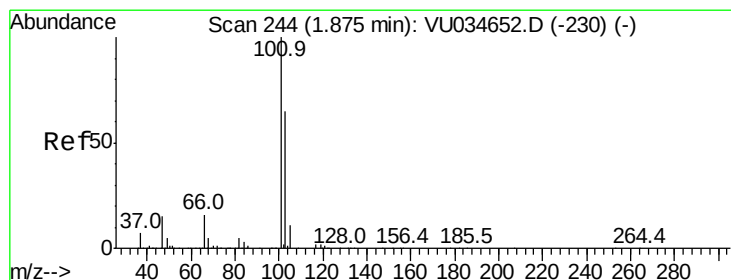
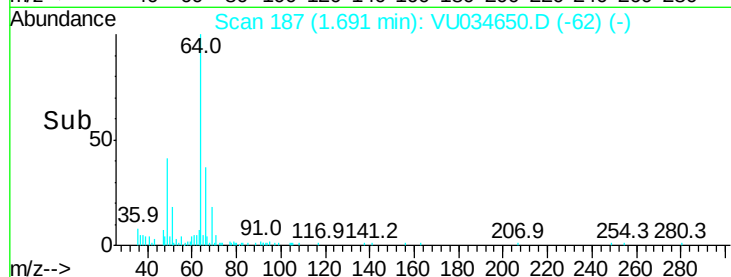
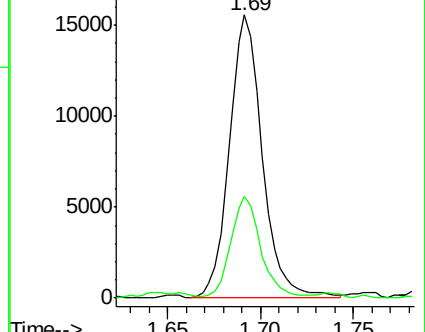
64 100

66 35.9 23.1 42.9



Abundance Ion 64.00 (63.70 to 64.70): VU034650.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU034650.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 10.088 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU034650.D

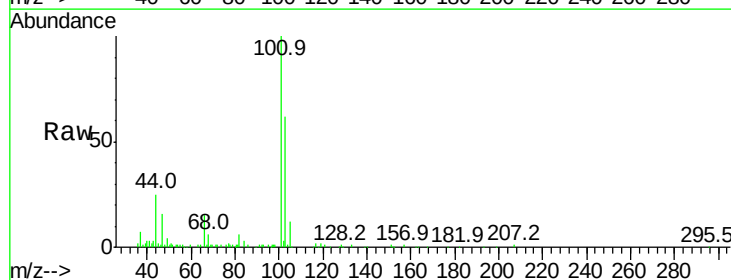
Acq: 19 Sep 2019 15:36

Tgt Ion: 101 Resp: 42393

Ion Ratio Lower Upper

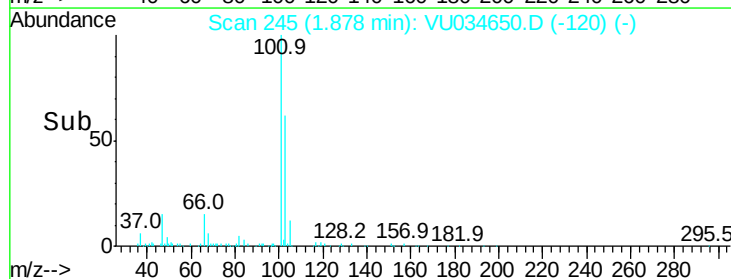
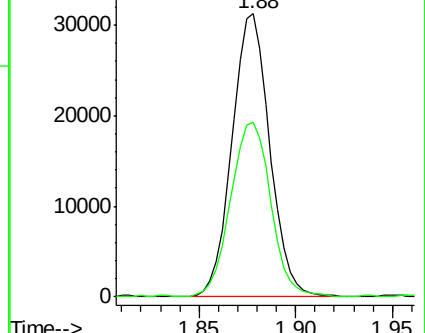
101 100

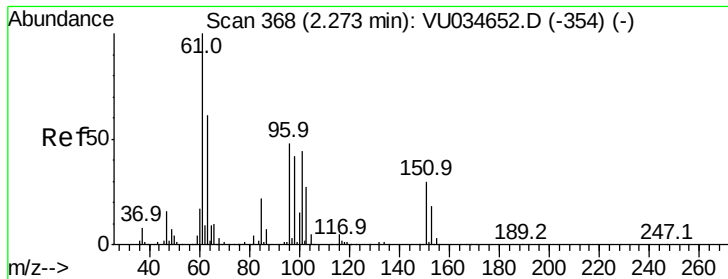
103 65.5 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU034650.D (-230) (-)

Ion 103.00 (102.70 to 103.70): VU034650.D (-230) (-)





#10

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

Concen: 8.395 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

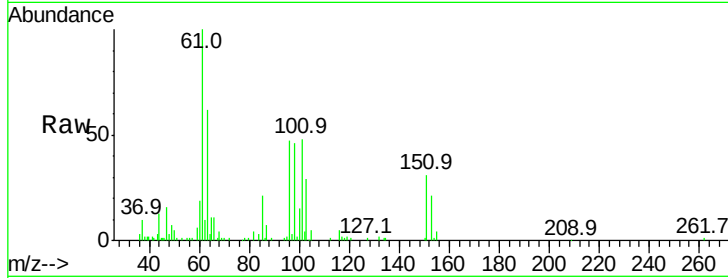
Tgt Ion:101 Resp: 21021

Ion Ratio Lower Upper

101 100

85 48.9 39.0 58.4

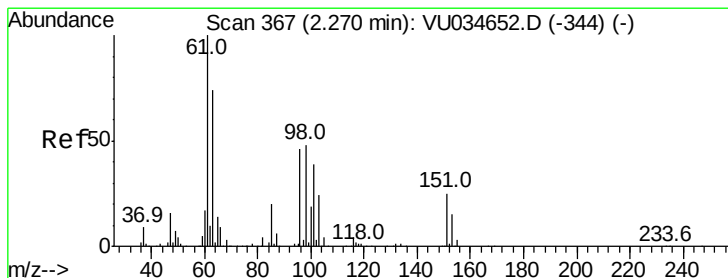
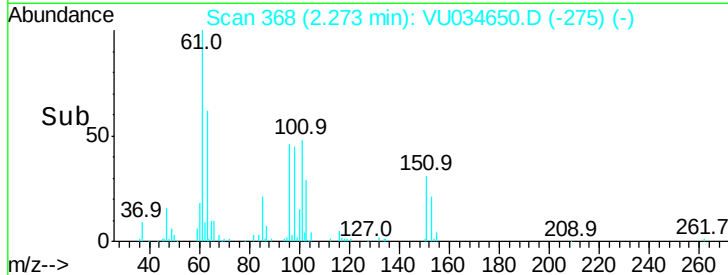
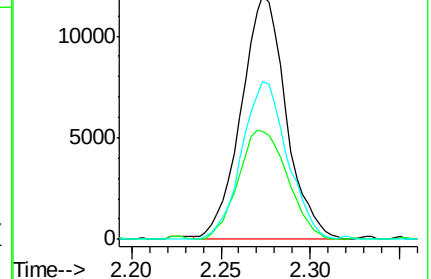
151 65.7 52.8 79.2



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: 8.426 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

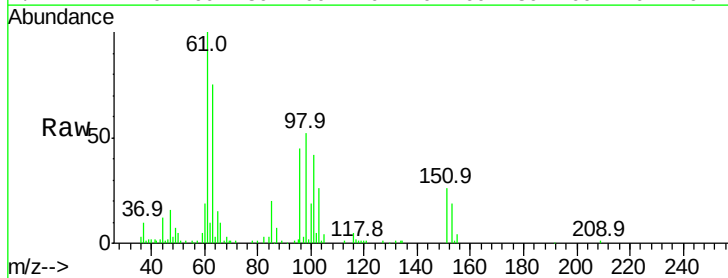
Tgt Ion: 96 Resp: 19265

Ion Ratio Lower Upper

96 100

61 223.2 153.2 284.4

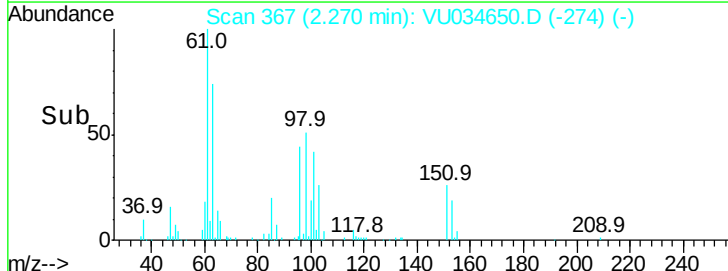
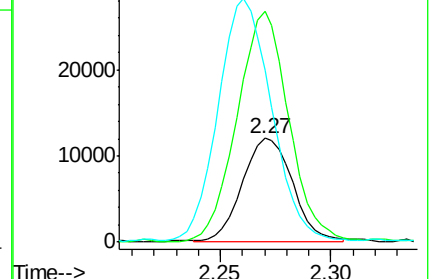
63 166.6 113.8 211.3

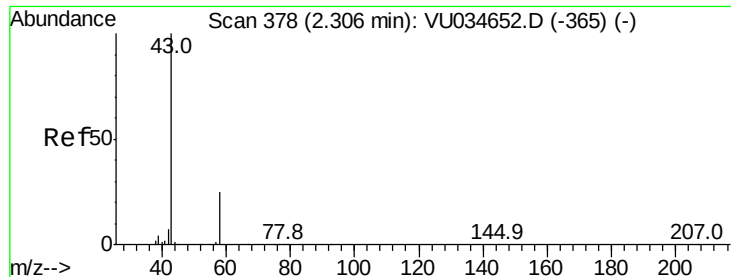


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 27.499 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

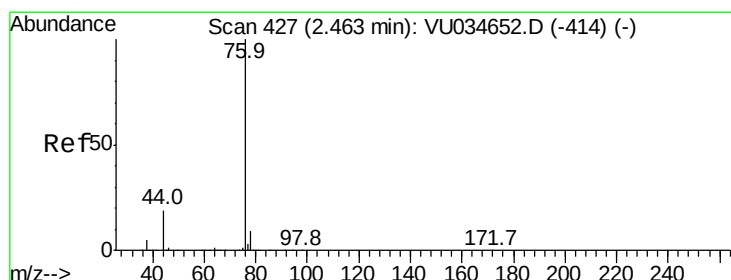
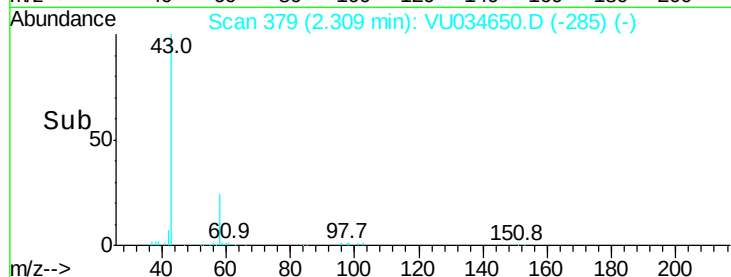
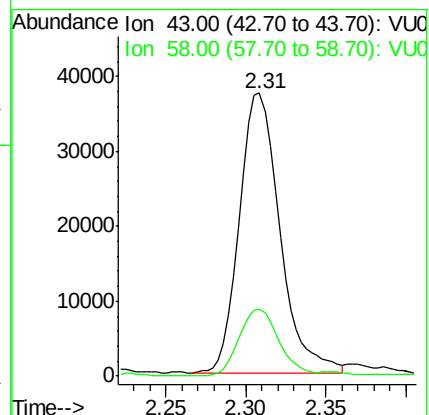
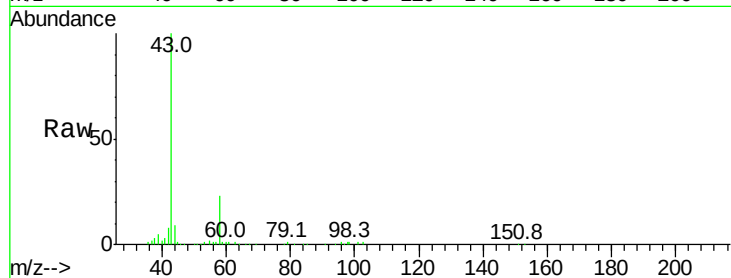
VSTD00531

Tgt Ion: 43 Resp: 64676

Ion Ratio Lower Upper

43 100

58 23.7 0.0 53.4



#14

Carbon disulfide

Concen: 11.373 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034650.D

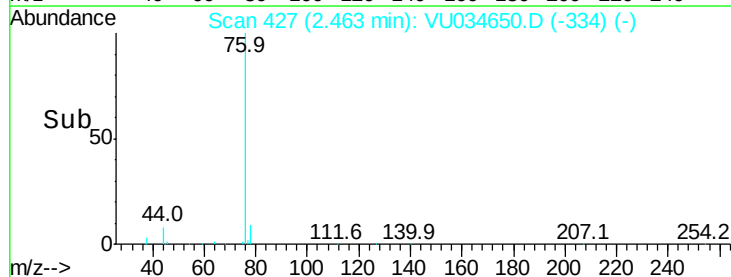
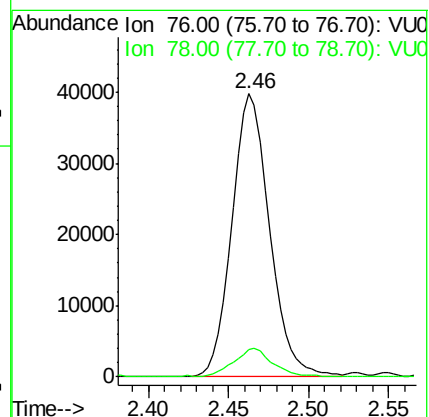
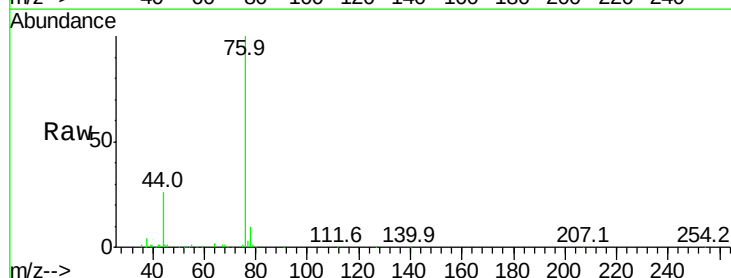
Acq: 19 Sep 2019 15:36

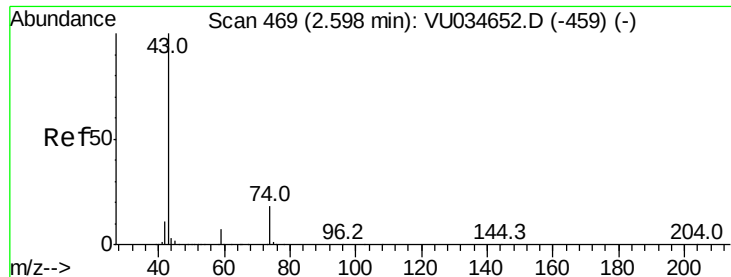
Tgt Ion: 76 Resp: 63836

Ion Ratio Lower Upper

76 100

78 9.7 6.9 10.3

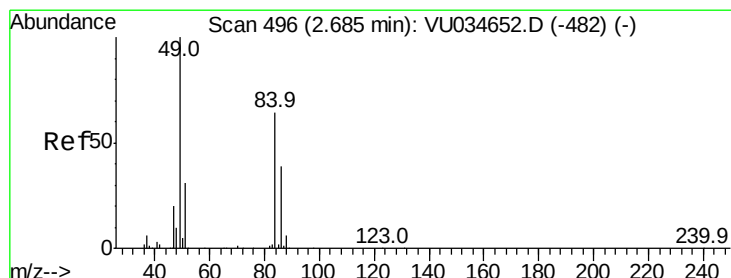
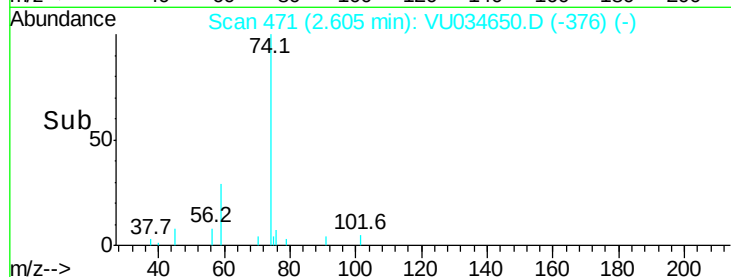
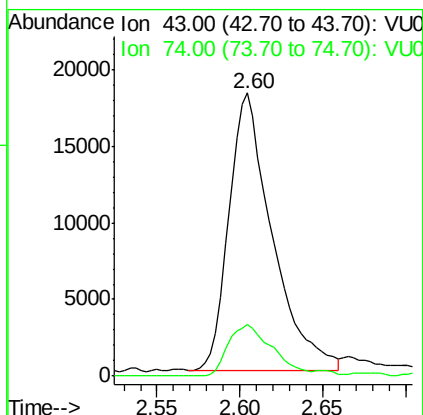
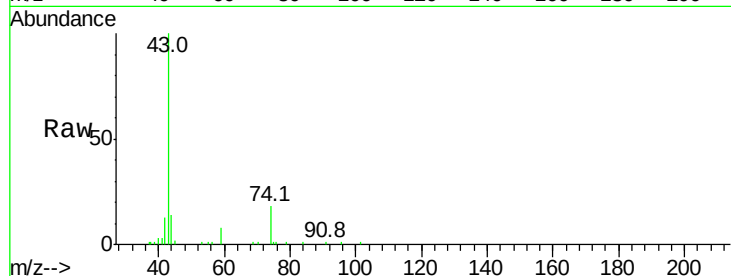




#15
Methyl Acetate
Concen: 8.599 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.01 min
Lab File: VU034650.D
Acq: 19 Sep 2019 15:36

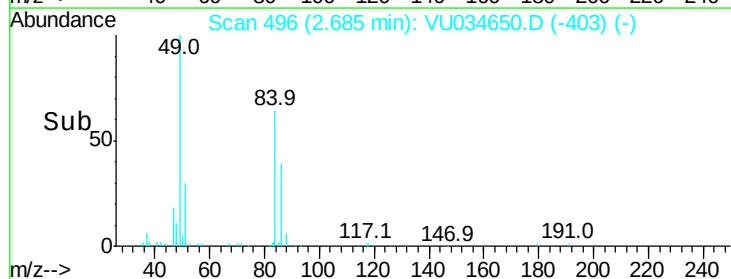
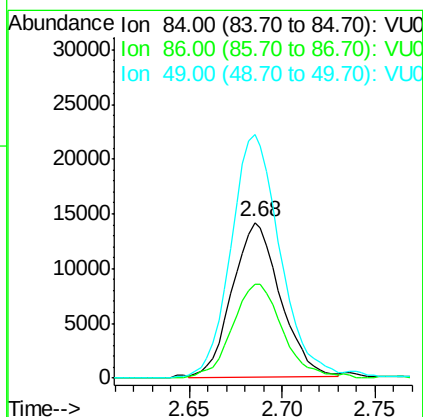
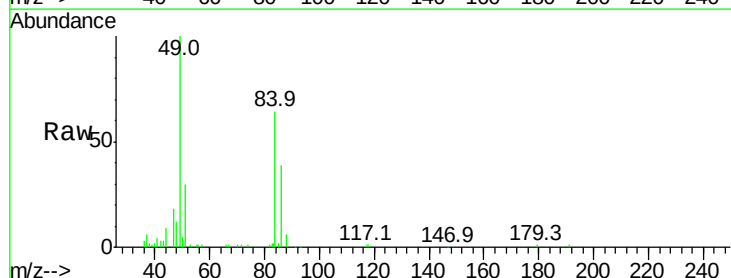
Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

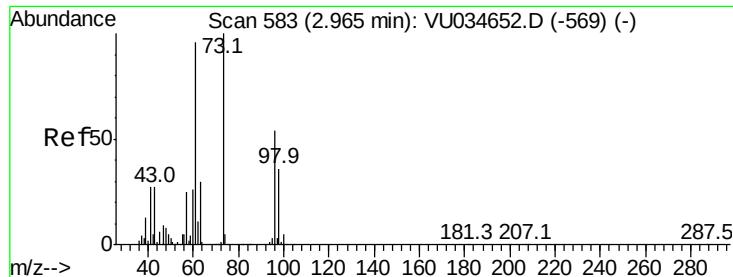
Tgt Ion: 43 Resp: 33100
Ion Ratio Lower Upper
43 100
74 18.8 14.4 21.6



#16
Methylene chloride
Concen: 8.504 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034650.D
Acq: 19 Sep 2019 15:36

Tgt Ion: 84 Resp: 25698
Ion Ratio Lower Upper
84 100
86 60.6 43.0 80.0
49 156.2 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 8.525 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

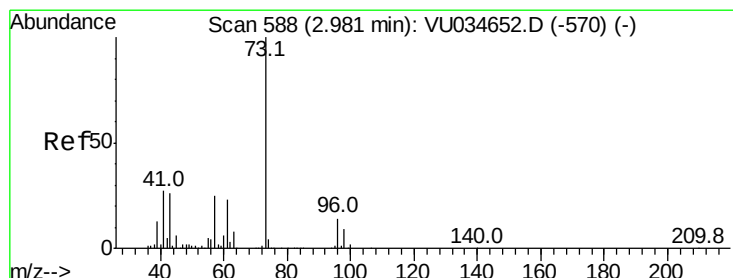
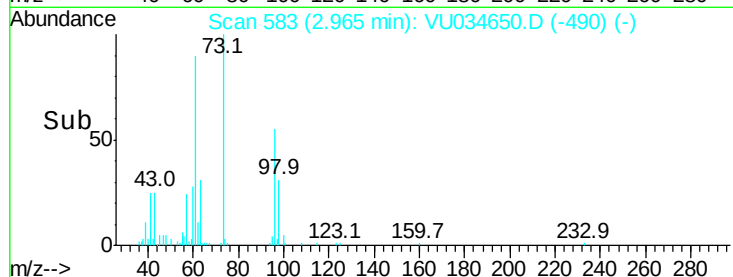
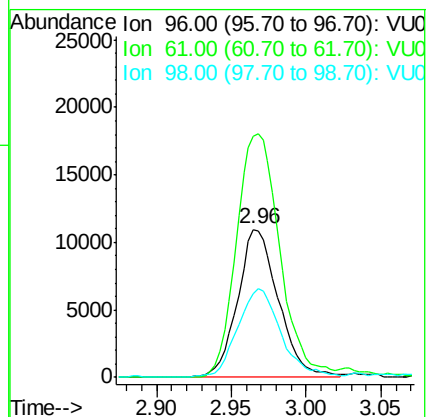
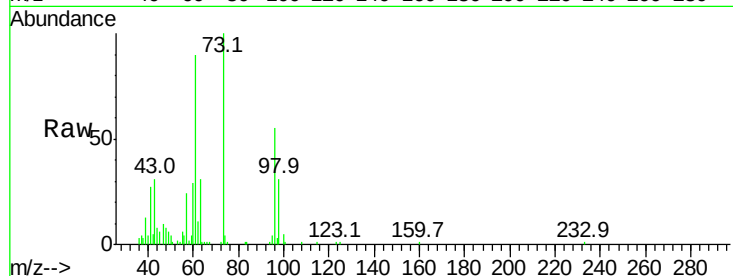
Tgt Ion: 96 Resp: 20861

Ion Ratio Lower Upper

96 100

61 162.7 124.0 230.4

98 56.3 46.1 85.7



#18

Methyl tert-butyl Ether

Concen: 7.636 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

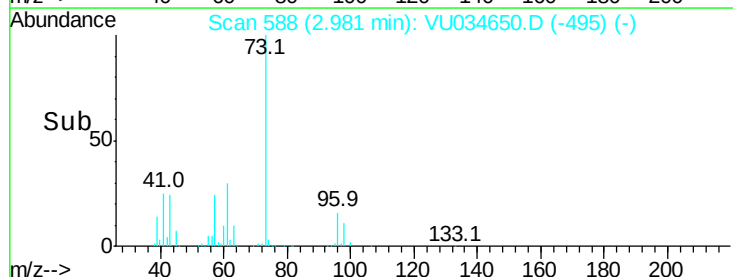
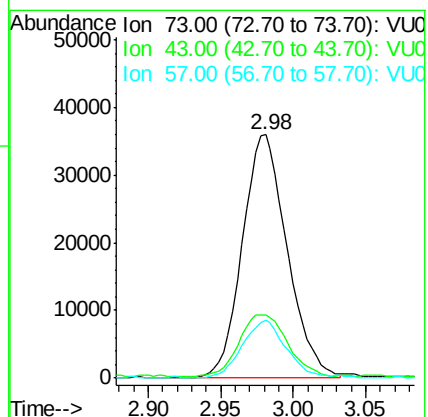
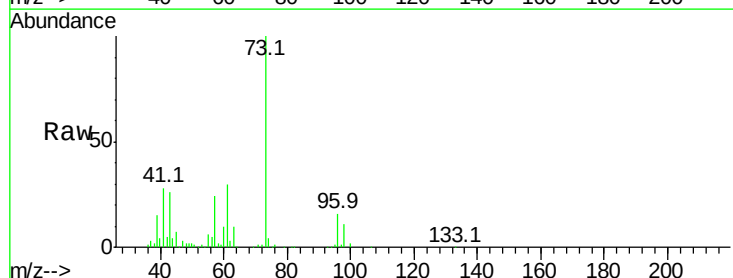
Tgt Ion: 73 Resp: 77365

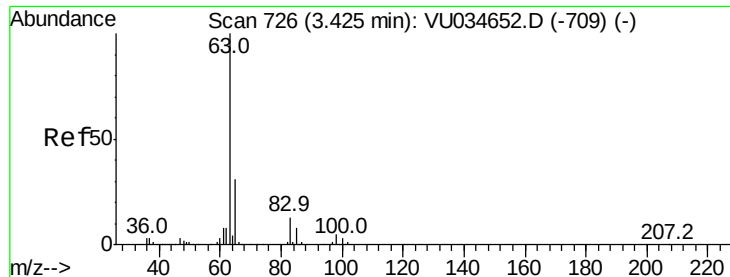
Ion Ratio Lower Upper

73 100

43 27.5 20.9 31.3

57 23.3 19.5 29.3

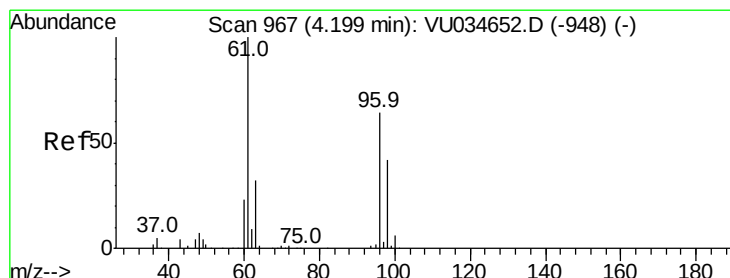
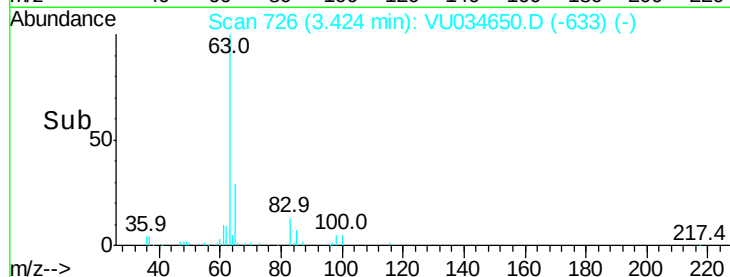
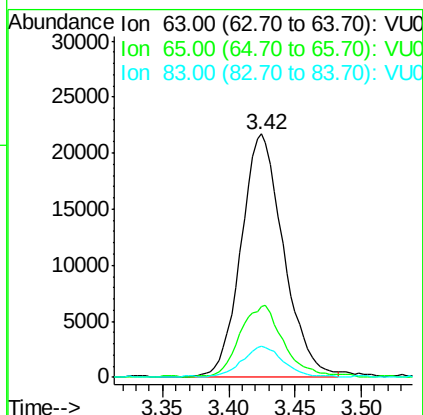
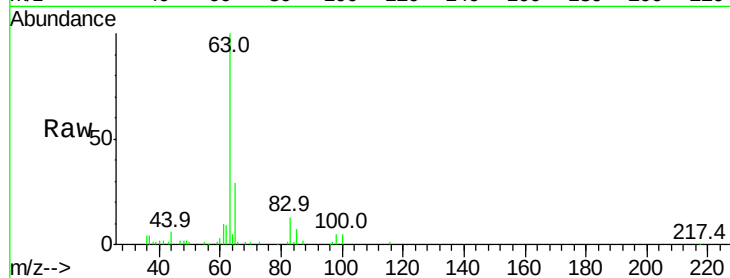




#19
 1,1-Dichloroethane
 Concen: 8.802 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

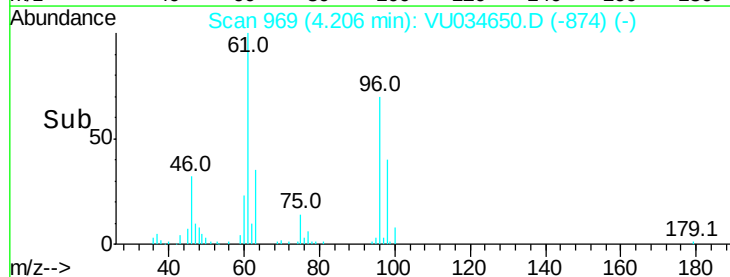
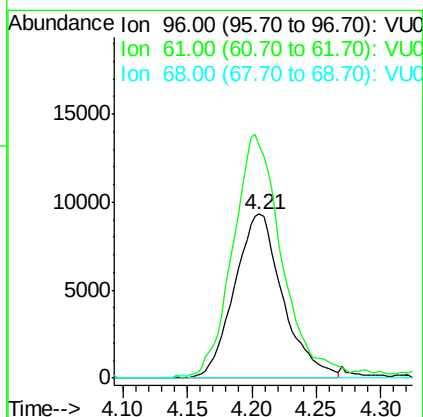
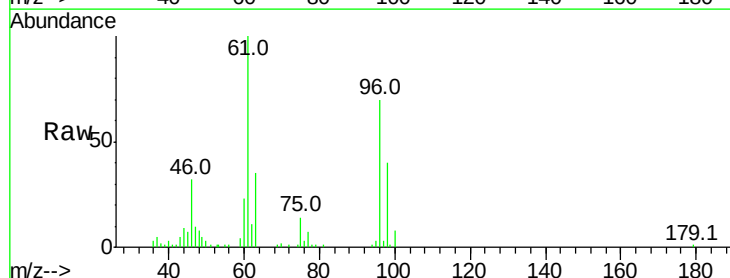
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

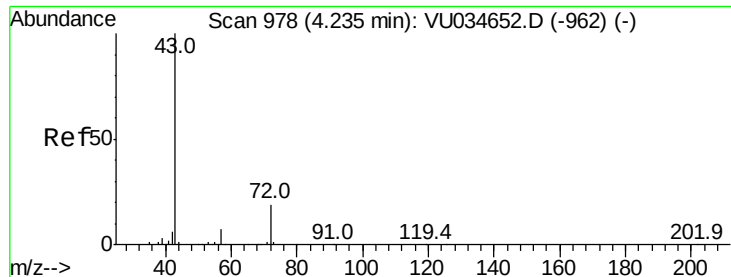
Tgt Ion: 63 Resp: 48493
 Ion Ratio Lower Upper
 63 100
 65 29.0 22.0 40.8
 83 13.0 8.9 16.5



#20
 cis-1,2-Dichloroethene
 Concen: 7.693 ug/L
 RT: 4.21 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion: 96 Resp: 24381
 Ion Ratio Lower Upper
 96 100
 61 142.9 108.8 202.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 21.247 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

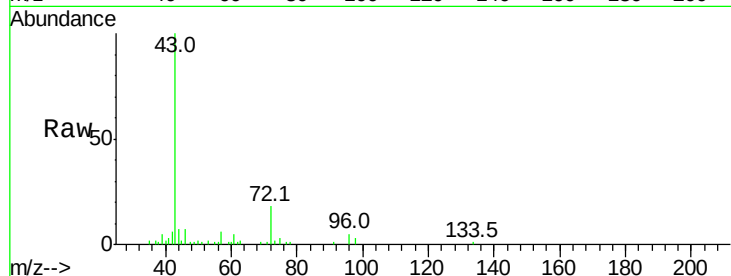
VSTD00531

Tgt Ion: 43 Resp: 63570

Ion Ratio Lower Upper

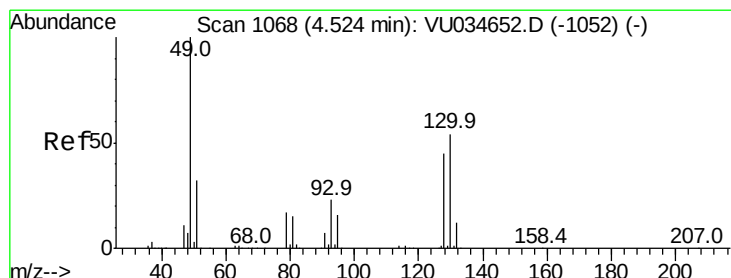
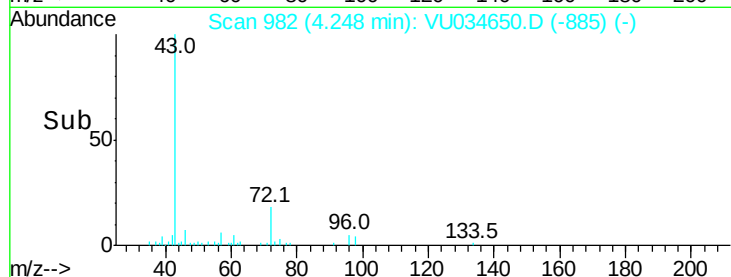
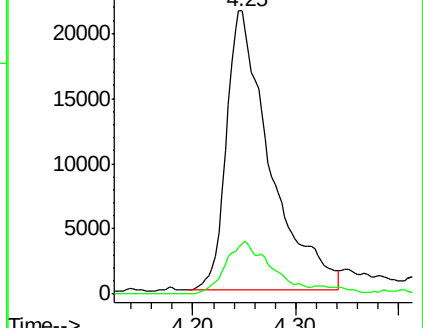
43 100

72 11.9 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034650.D (-982) (-)

Ion 72.00 (71.70 to 72.70): VU034650.D (-982) (-)



#23

Bromochloromethane

Concen: 7.826 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Tgt Ion: 128 Resp: 11709

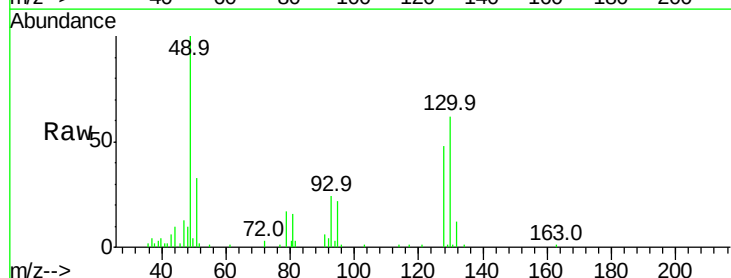
Ion Ratio Lower Upper

128 100

49 208.1 154.3 286.7

130 131.6 83.0 154.2

51 67.8 56.4 84.6

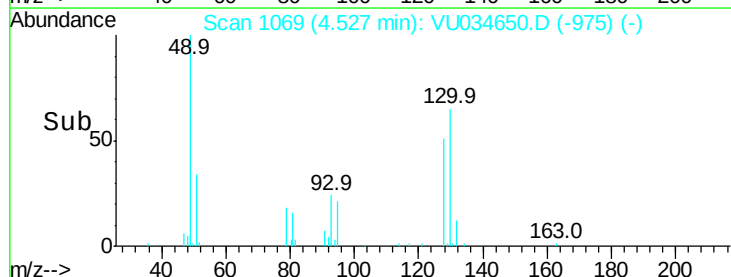
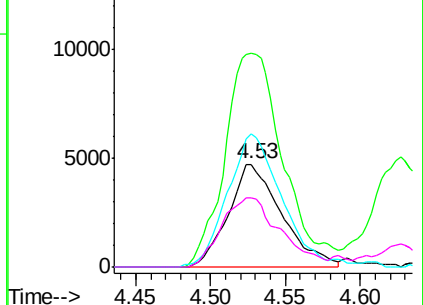


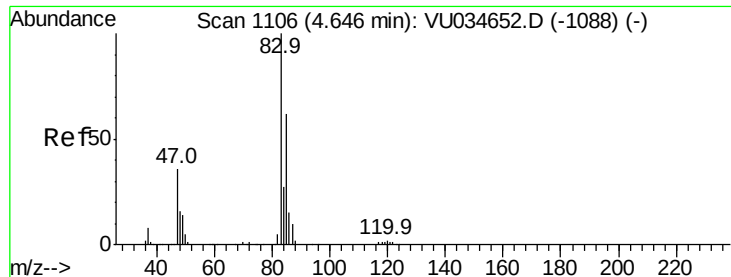
Abundance Ion 128.00 (127.70 to 128.70): VU034650.D (-1069) (-)

Ion 49.00 (48.70 to 49.70): VU034650.D (-1069) (-)

Ion 130.00 (129.70 to 130.70): VU034650.D (-1069) (-)

Ion 51.00 (50.70 to 51.70): VU034650.D (-1069) (-)





#25

Chloroform

Concen: 8.583 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

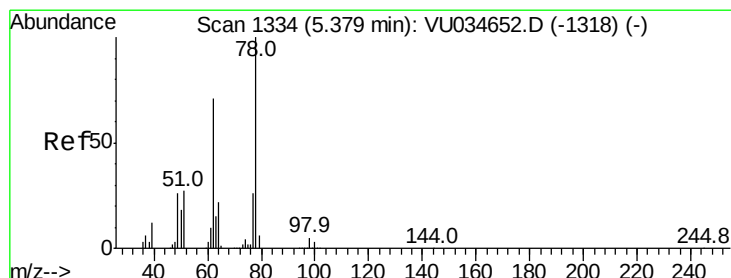
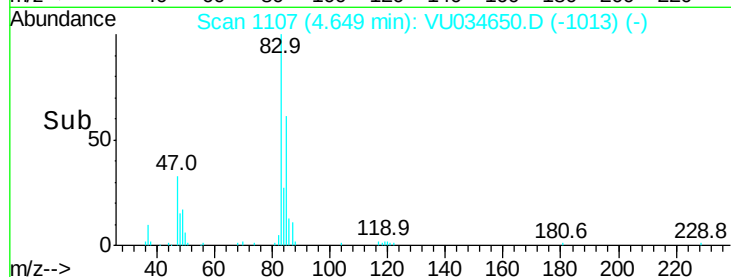
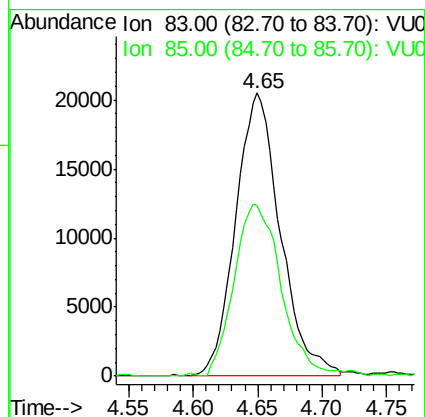
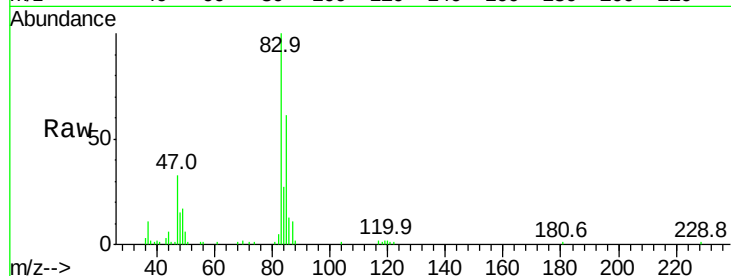
VSTD00531

Tgt Ion: 83 Resp: 49452

Ion Ratio Lower Upper

83 100

85 60.5 44.0 81.6



#27

1,2-Dichloroethane

Concen: 9.840 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.01 min

Lab File: VU034650.D

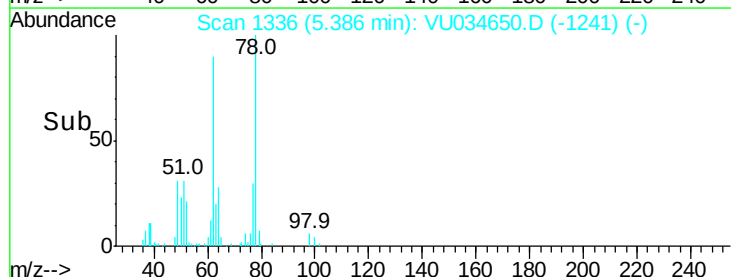
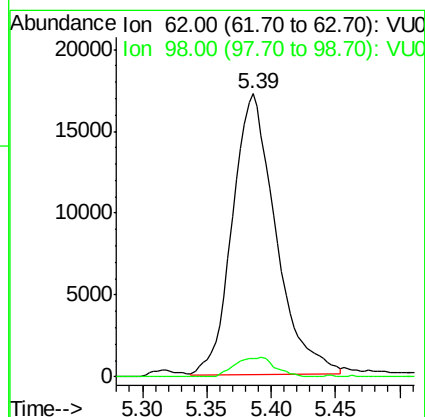
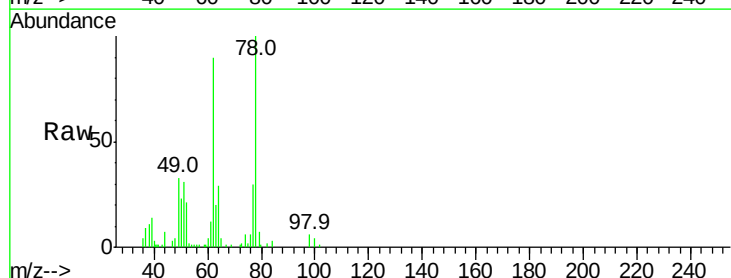
Acq: 19 Sep 2019 15:36

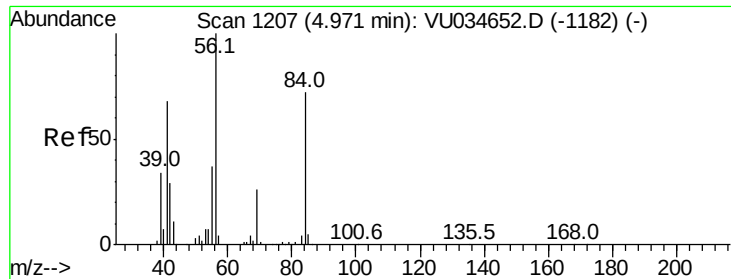
Tgt Ion: 62 Resp: 40141

Ion Ratio Lower Upper

62 100

98 6.4 5.3 7.9

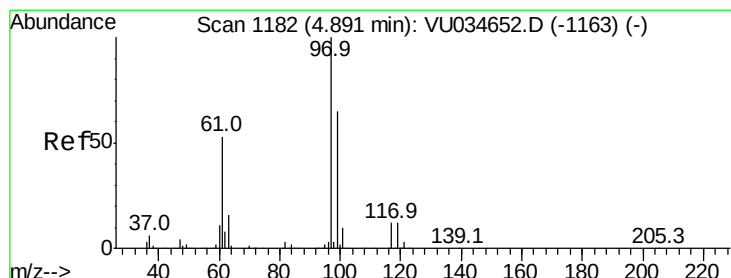
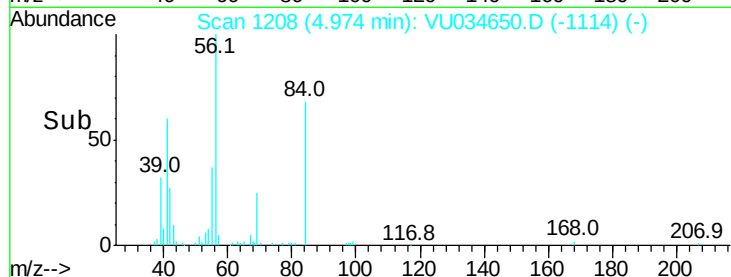
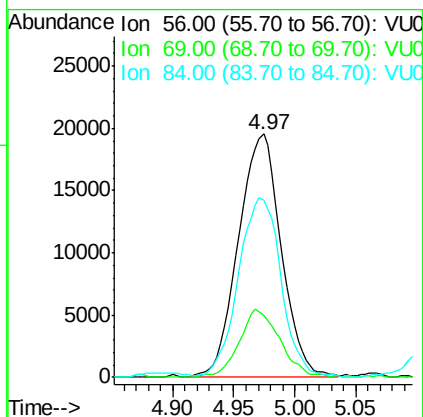
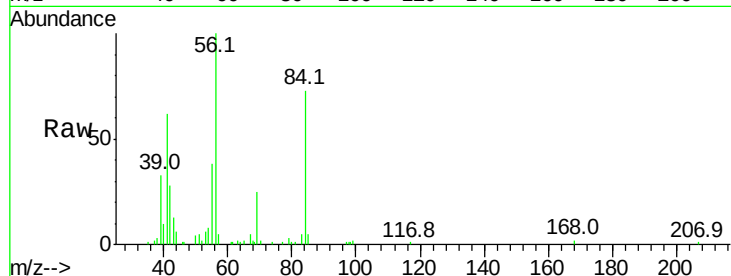




#29
Cyclohexane
Concen: 10.647 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034650.D
Acq: 19 Sep 2019 15:36

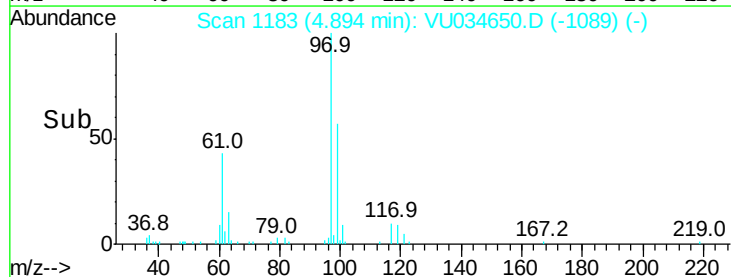
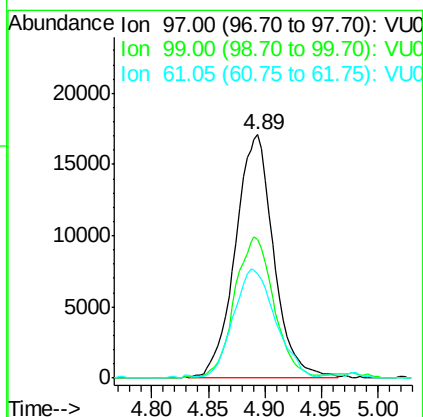
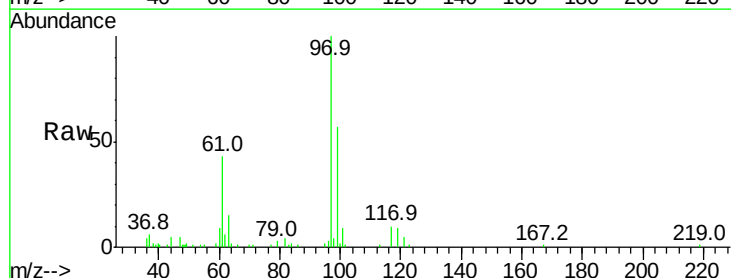
Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

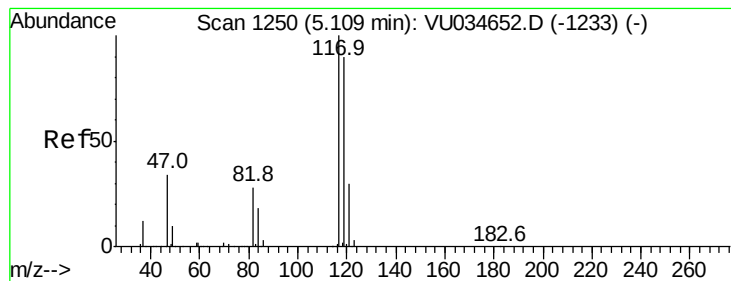
Tgt Ion: 56 Resp: 47522
Ion Ratio Lower Upper
56 100
69 26.6 21.7 32.5
84 73.8 58.8 88.2



#30
1,1,1-Trichloroethane
Concen: 8.830 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU034650.D
Acq: 19 Sep 2019 15:36

Tgt Ion: 97 Resp: 40397
Ion Ratio Lower Upper
97 100
99 59.2 51.8 77.8
61 48.5 43.4 65.0





#31

Carbon tetrachloride

Concen: 8.457 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

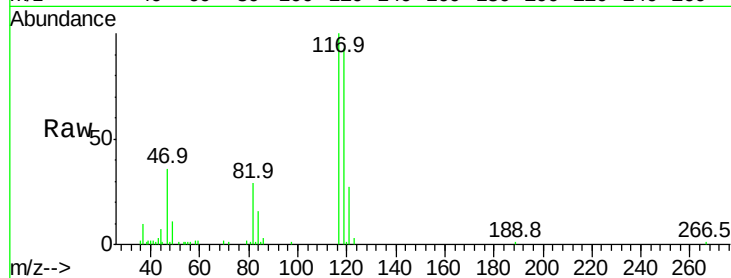
VSTD00531

Tgt Ion:117 Resp: 32664

Ion Ratio Lower Upper

117 100

119 96.2 74.8 112.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

15000

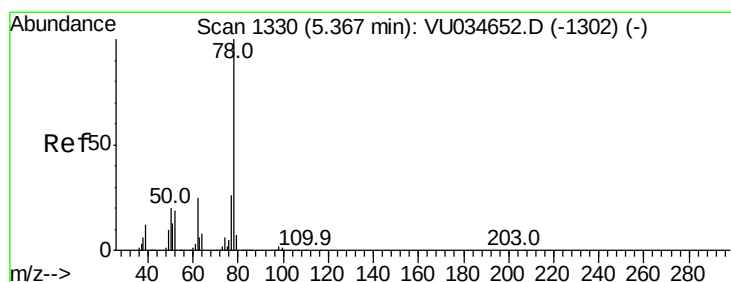
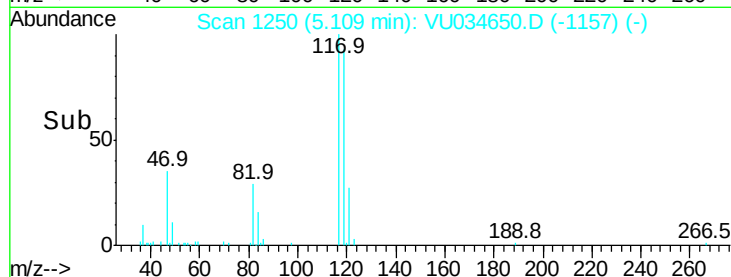
10000

5000

0

5.05 5.10 5.15 5.20

Time-->



#33

Benzene

Concen: 8.203 ug/L

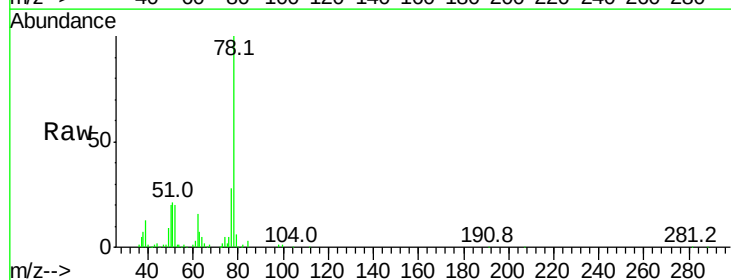
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Tgt Ion: 78 Resp: 95269



Abundance Ion 78.00 (77.70 to 78.70): VU0

50000

40000

30000

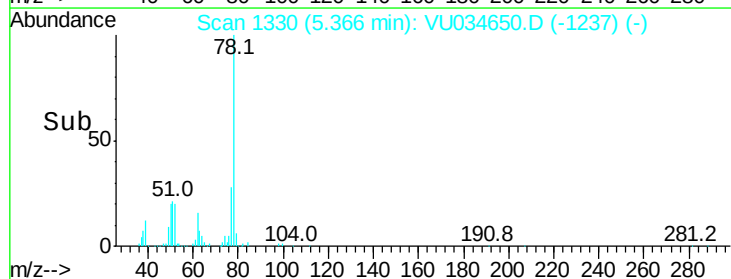
20000

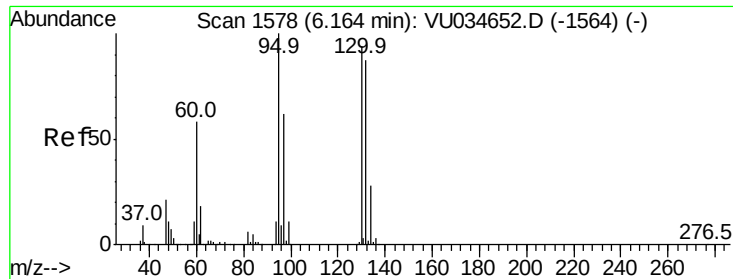
10000

0

5.30 5.35 5.40 5.45

Time-->

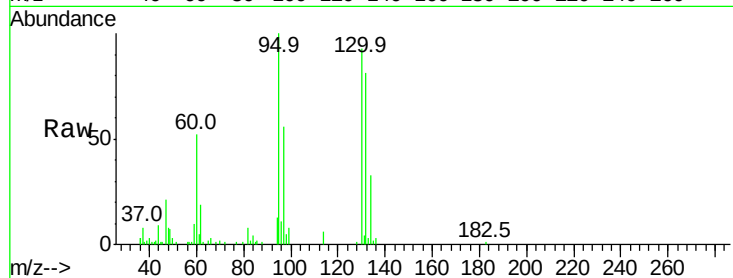




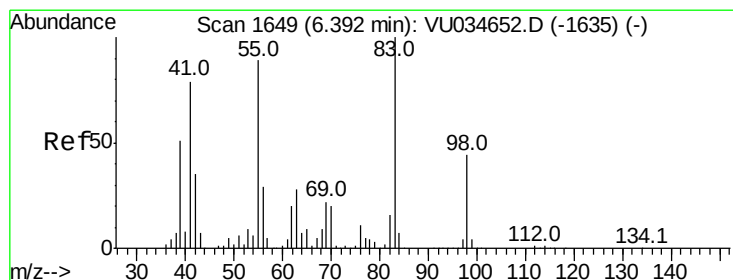
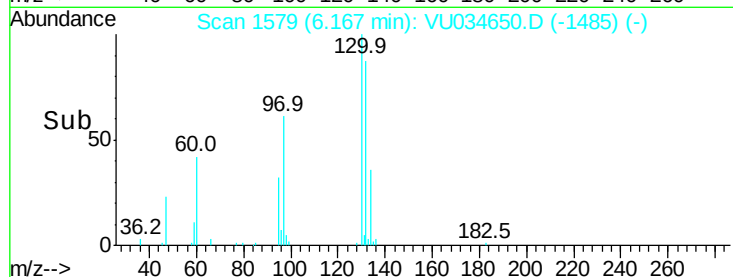
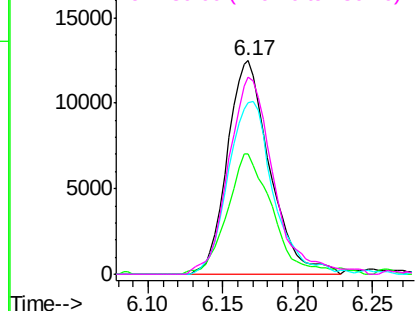
#34
 Trichloroethene
 Concen: 8.523 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

Tgt Ion:	95	Resp:	24656
Ion	Ratio	Lower	Upper
95	100		
97	56.1	43.7	81.1
132	80.5	61.0	113.2
130	92.6	65.7	121.9

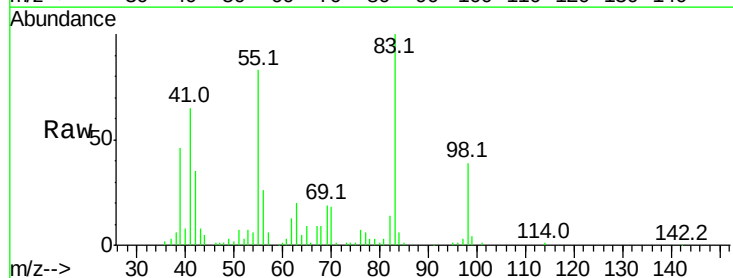


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

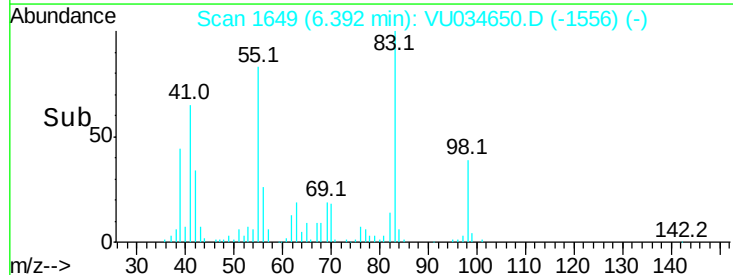
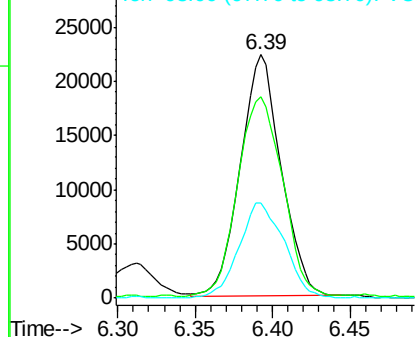


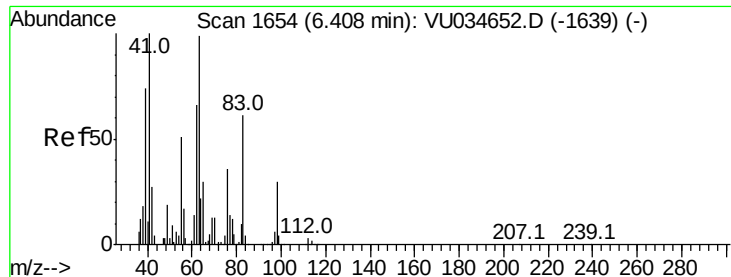
#35
 Methylcyclohexane
 Concen: 9.346 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion:	83	Resp:	40992
Ion	Ratio	Lower	Upper
83	100		
55	92.8	71.6	107.4
98	43.4	35.7	53.5



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

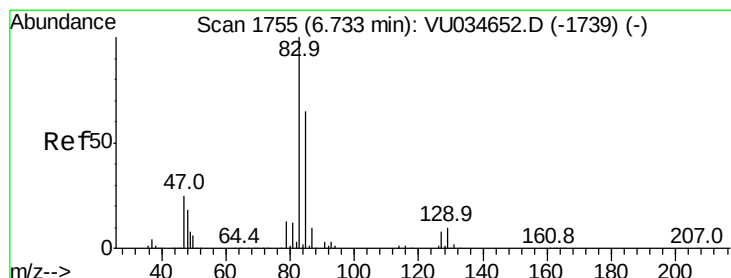
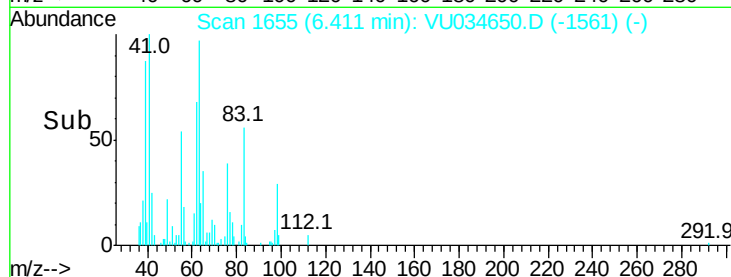
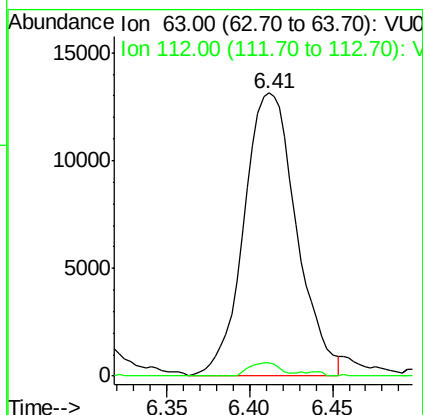
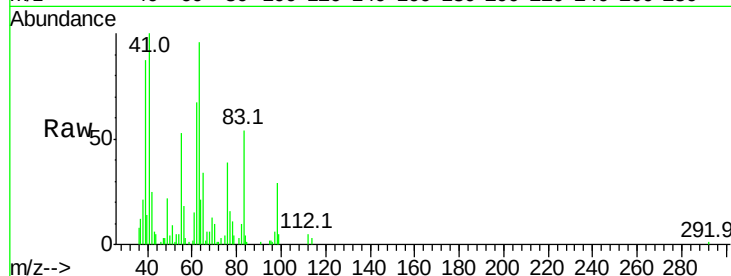




#37
 1,2-Dichloropropane
 Concen: 8.243 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

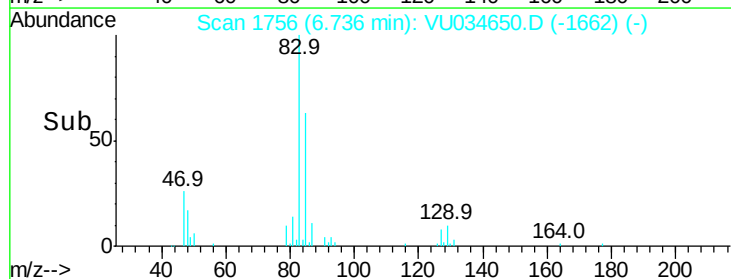
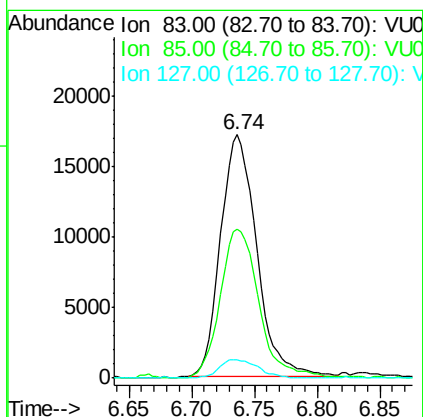
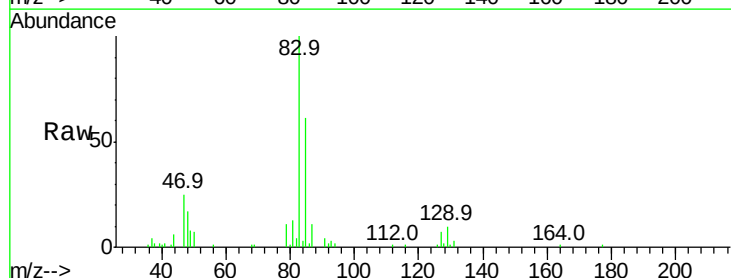
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00531

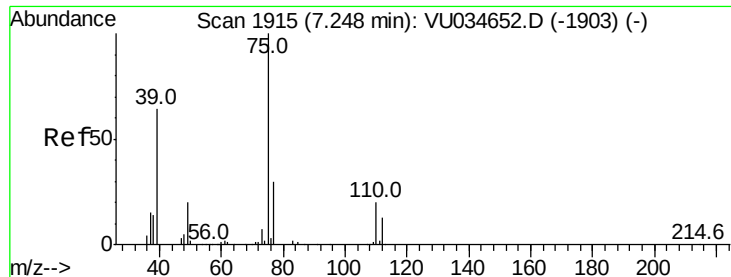
Tgt Ion: 63 Resp: 29055
 Ion Ratio Lower Upper
 63 100
 112 2.7 2.4 3.6



#38
 Bromodichloromethane
 Concen: 7.440 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion: 83 Resp: 34285
 Ion Ratio Lower Upper
 83 100
 85 61.3 45.5 84.5
 127 7.4 6.1 9.1

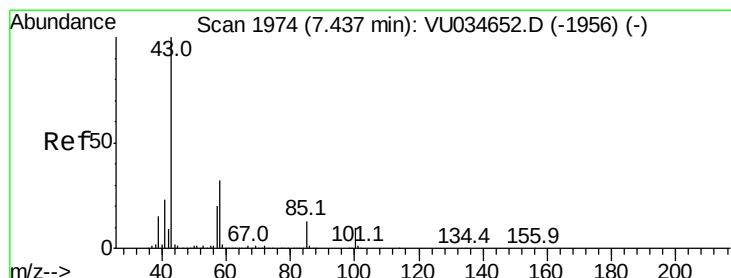
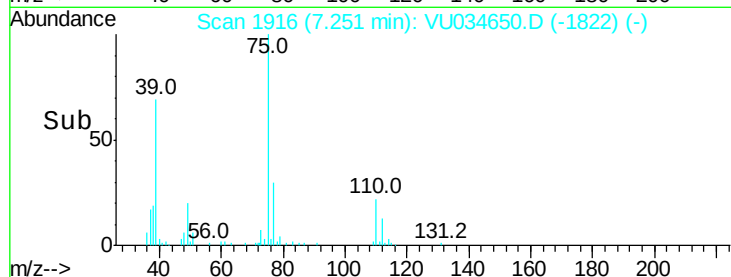
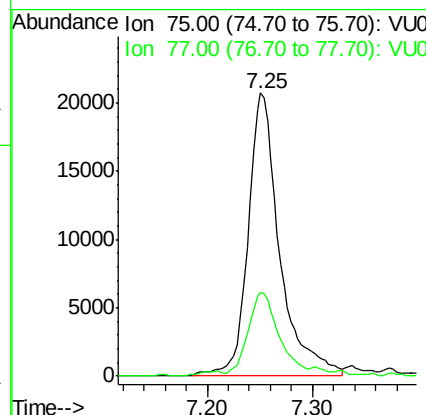
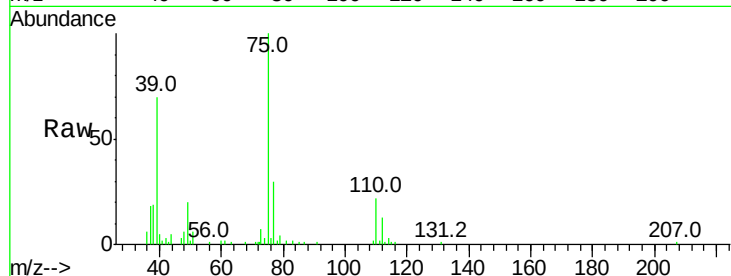




#39
 cis-1,3-Dichloropropene
 Concen: 8.176 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

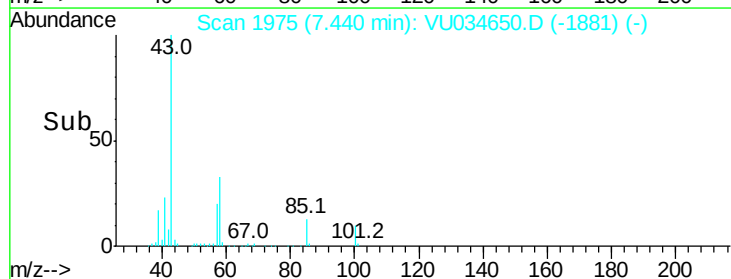
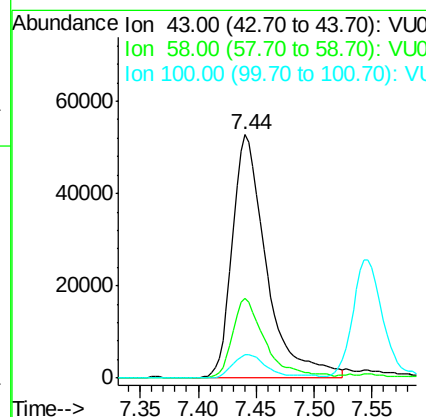
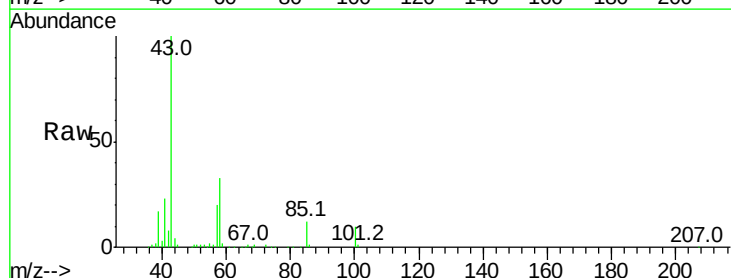
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

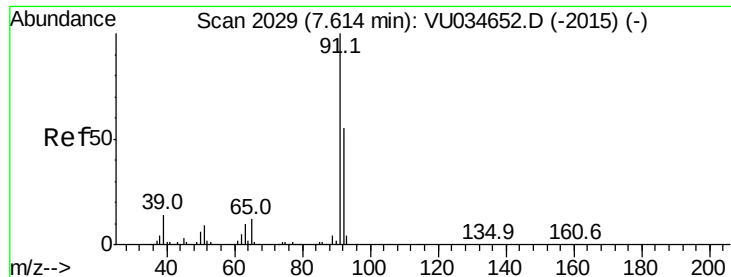
Tgt Ion: 75 Resp: 43297
 Ion Ratio Lower Upper
 75 100
 77 29.7 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 17.381 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion: 43 Resp: 106573
 Ion Ratio Lower Upper
 43 100
 58 31.3 25.2 37.8
 100 9.5 7.7 11.5





#42

Toluene

Concen: 8.228 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

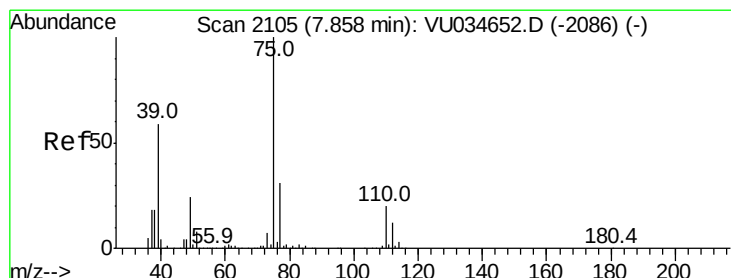
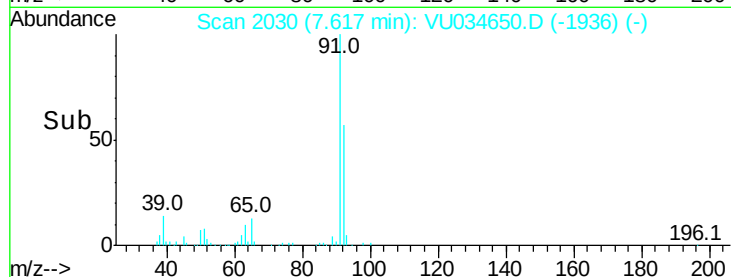
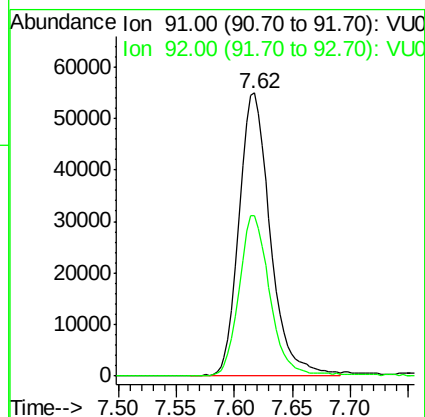
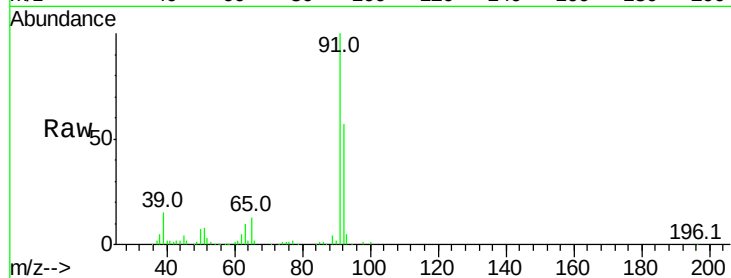
VSTD00531

Tgt Ion: 91 Resp: 103027

Ion Ratio Lower Upper

91 100

92 56.6 38.2 71.0



#44

trans-1,3-Dichloropropene

Concen: 7.347 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034650.D

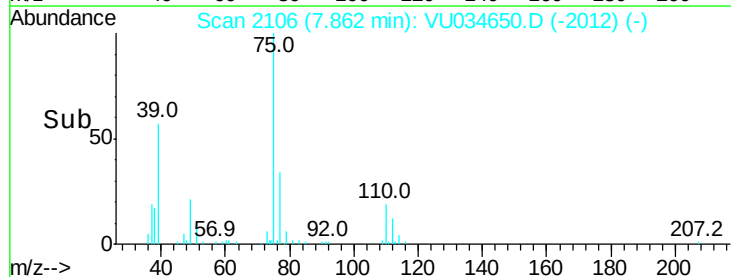
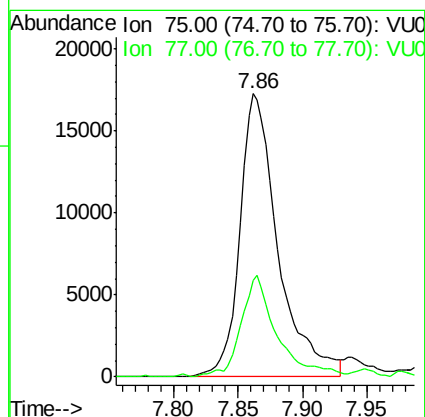
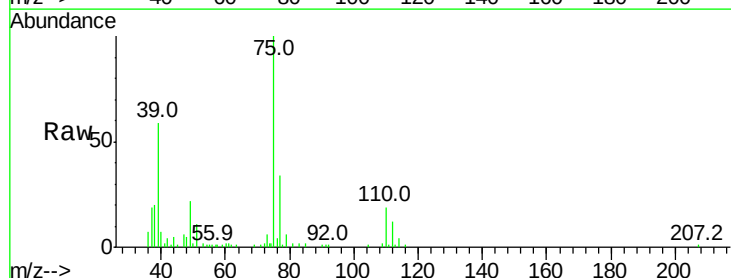
Acq: 19 Sep 2019 15:36

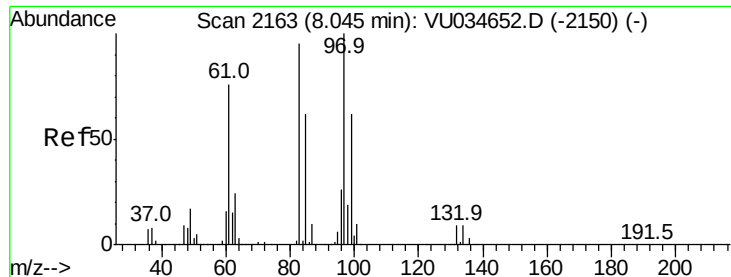
Tgt Ion: 75 Resp: 35678

Ion Ratio Lower Upper

75 100

77 34.1 21.4 39.8

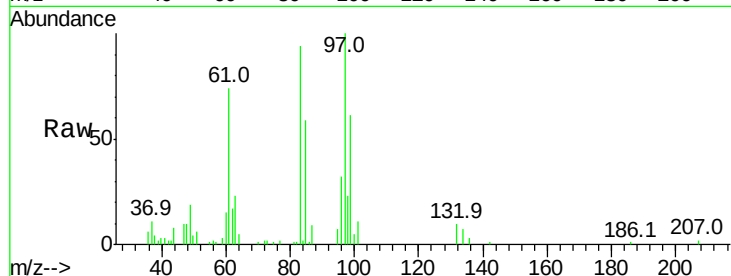




#45
 1,1,2-Trichloroethane
 Concen: 7.010 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

Tgt Ion:	97	Resp:	22551
Ion	Ratio	Lower	Upper
97	100		
99	60.7	43.6	81.0
83	94.4	66.9	124.3
85	58.8	43.3	80.3

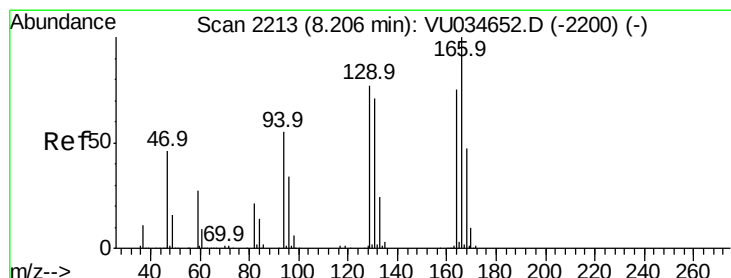
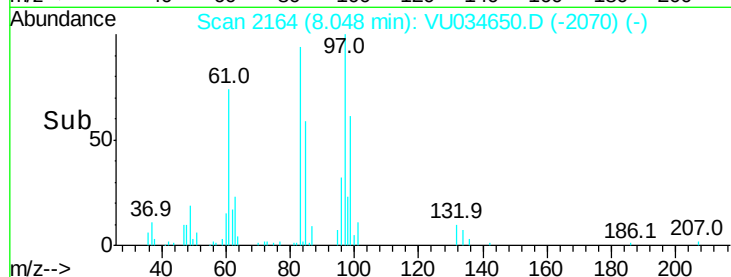
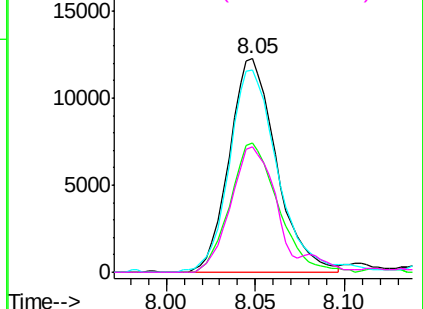


Abundance Ion 97.00 (96.70 to 97.70): VU034650.D (-2150) (-)

Ion 99.00 (98.70 to 99.70): VU034650.D (-2150) (-)

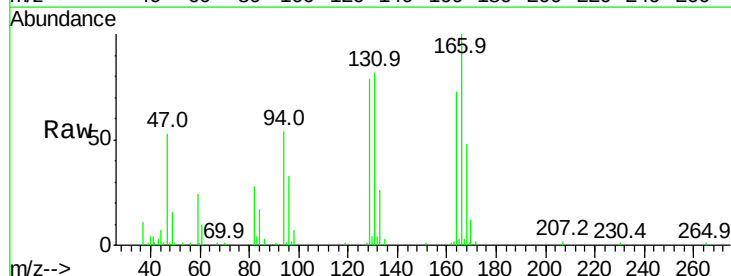
Ion 83.00 (82.70 to 83.70): VU034650.D (-2150) (-)

Ion 85.00 (84.70 to 85.70): VU034650.D (-2150) (-)



#46
 Tetrachloroethene
 Concen: 8.213 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion:	164	Resp:	15772
Ion	Ratio	Lower	Upper
164	100		
129	107.9	71.9	133.5
131	111.8	66.3	123.1
166	136.5	93.4	173.6

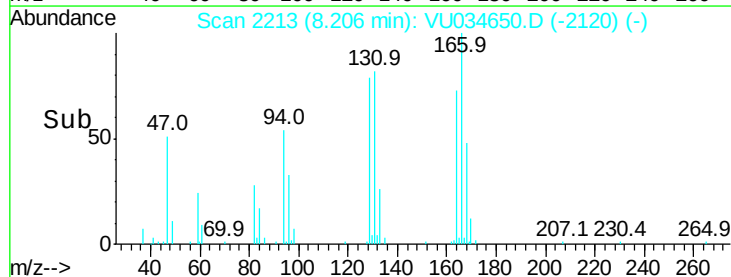
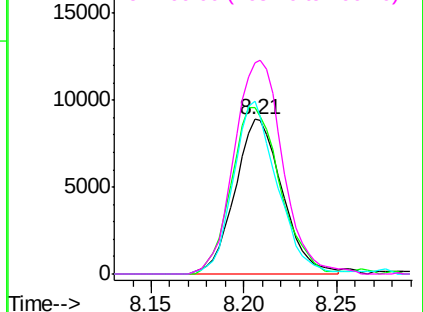


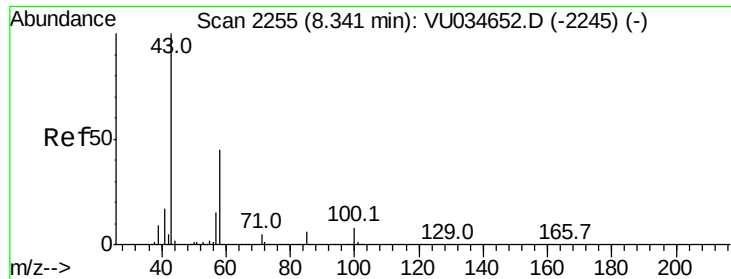
Abundance Ion 164.00 (163.70 to 164.70): VU034650.D (-2200) (-)

Ion 129.00 (128.70 to 129.70): VU034650.D (-2200) (-)

Ion 131.00 (130.70 to 131.70): VU034650.D (-2200) (-)

Ion 166.00 (165.70 to 166.70): VU034650.D (-2200) (-)

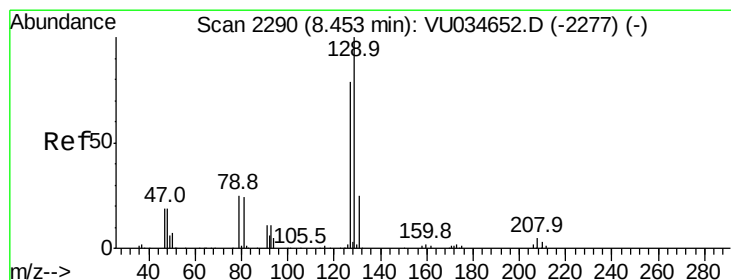
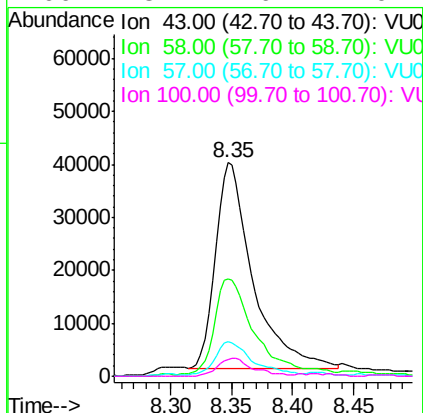
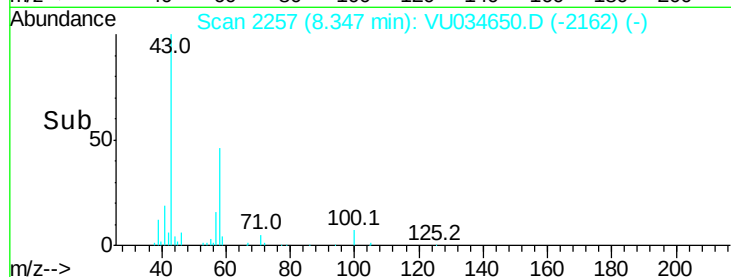
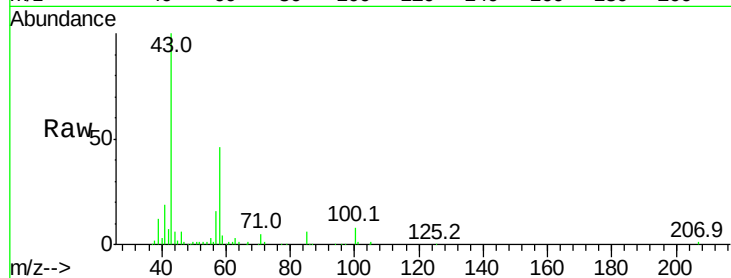




#48
 2-Hexanone
 Concen: 18.092 ug/L
 RT: 8.35 min Scan# 2257
 Delta R.T. 0.01 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

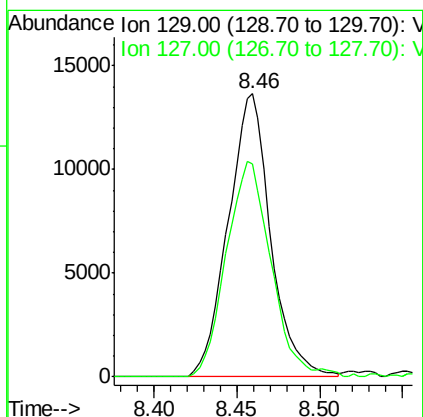
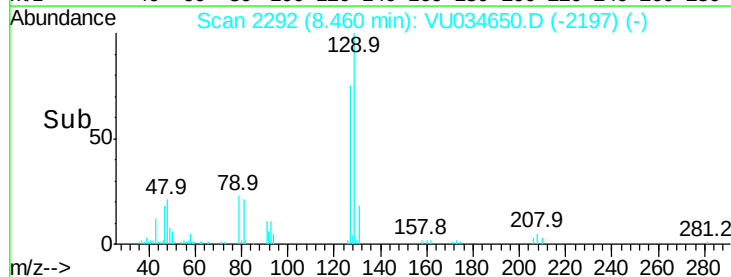
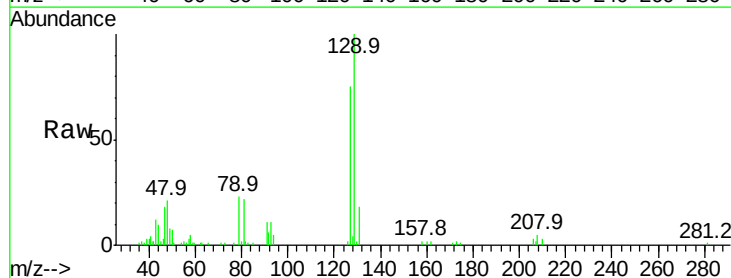
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

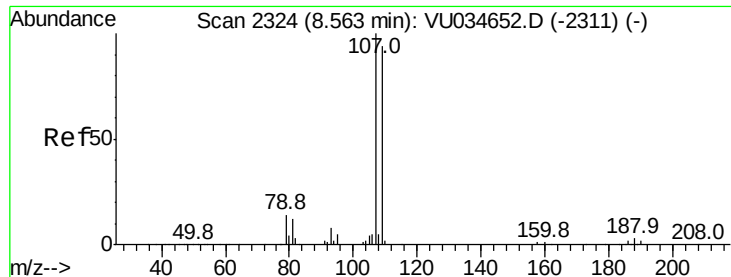
Tgt Ion:	43	Resp:	83339
Ion	Ratio	Lower	Upper
43	100		
58	46.9	35.3	52.9
57	17.4	12.1	18.1
100	8.2	6.2	9.4



#49
 Dibromochloromethane
 Concen: 6.673 ug/L
 RT: 8.46 min Scan# 2292
 Delta R.T. 0.01 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion:	129	Resp:	24309
Ion	Ratio	Lower	Upper
129	100		
127	75.3	55.5	103.1

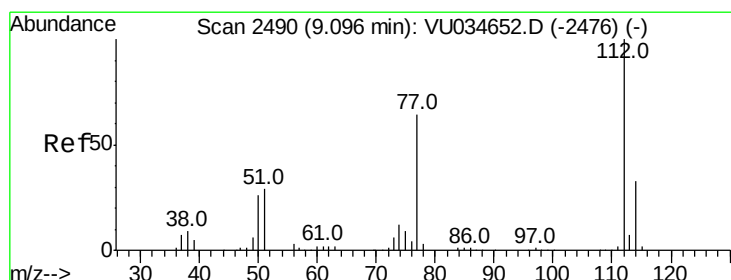
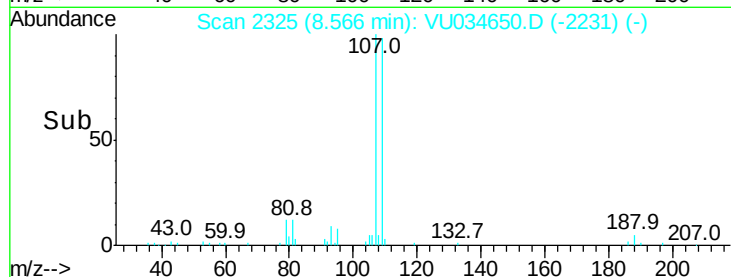
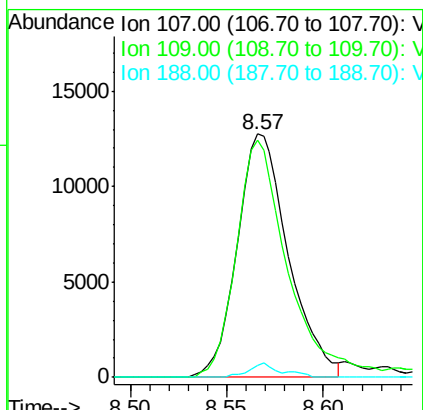
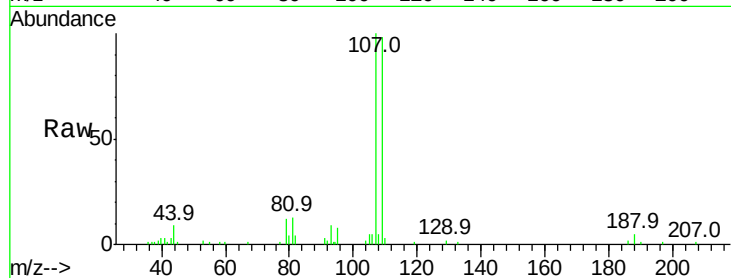




#50
1,2-Dibromoethane
Concen: 6.980 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU034650.D
Acq: 19 Sep 2019 15:36

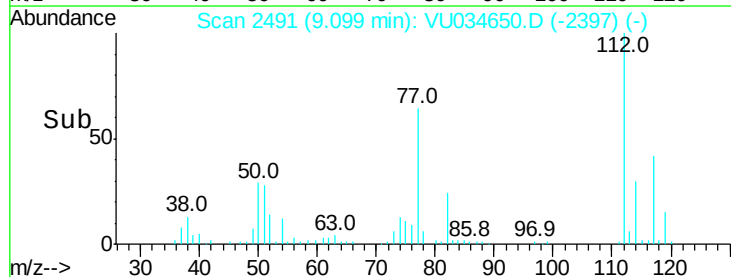
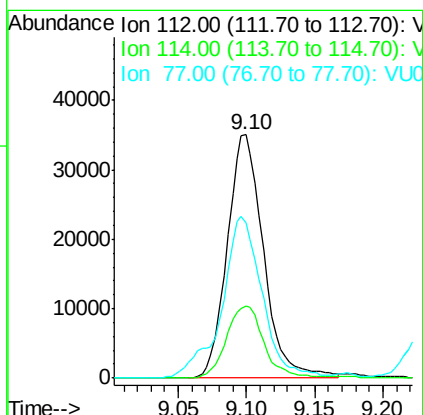
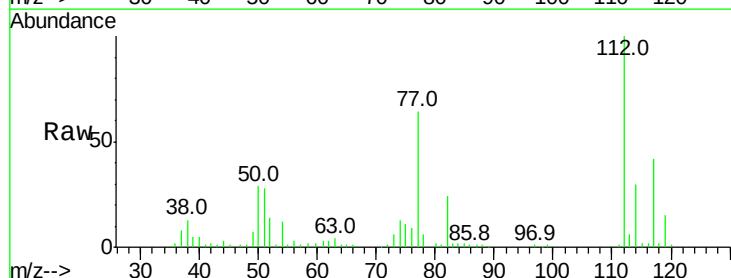
Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

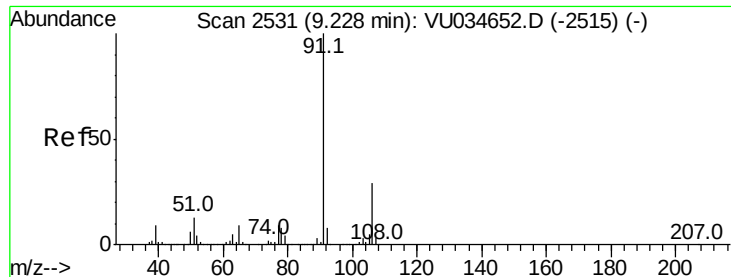
Tgt Ion:107 Resp: 23469
Ion Ratio Lower Upper
107 100
109 97.6 65.5 121.6
188 5.1 2.7 4.1#



#51
Chlorobenzene
Concen: 7.934 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034650.D
Acq: 19 Sep 2019 15:36

Tgt Ion:112 Resp: 64904
Ion Ratio Lower Upper
112 100
114 29.8 22.8 42.4
77 63.7 51.5 77.3





#52

Ethylbenzene

Concen: 8.310 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

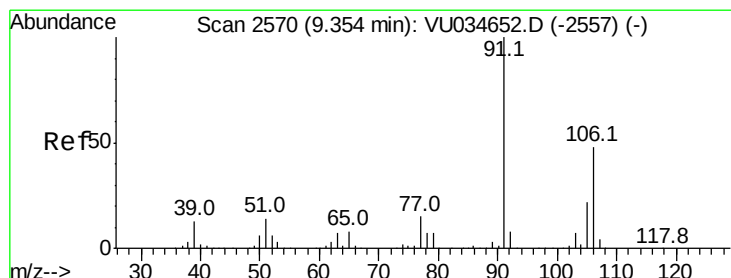
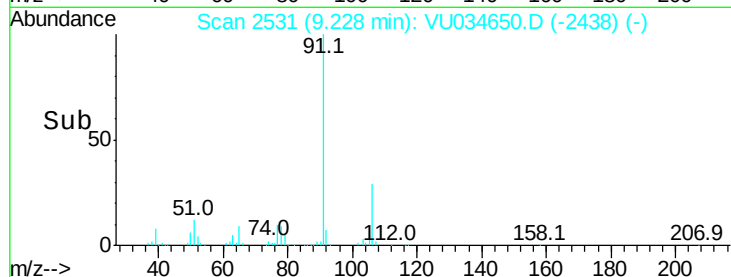
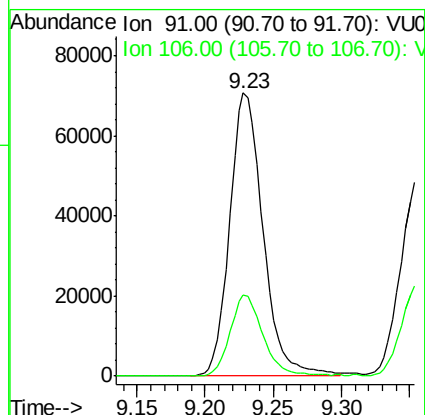
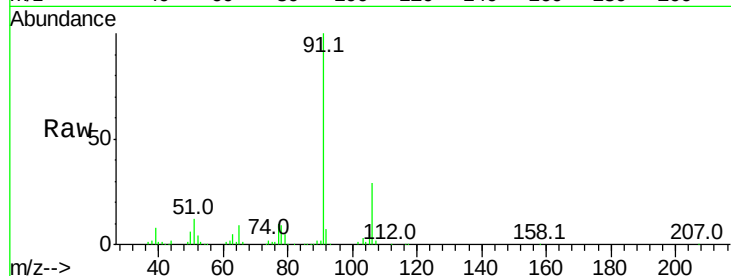
VSTD00531

Tgt Ion: 91 Resp: 120399

Ion Ratio Lower Upper

91 100

106 28.6 20.6 38.4



#53

m,p-Xylene

Concen: 7.884 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034650.D

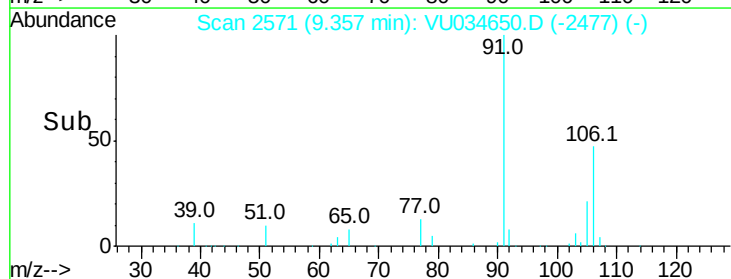
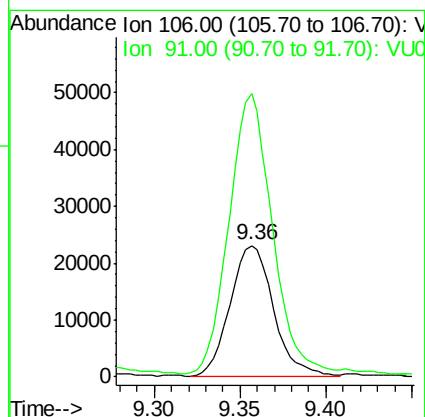
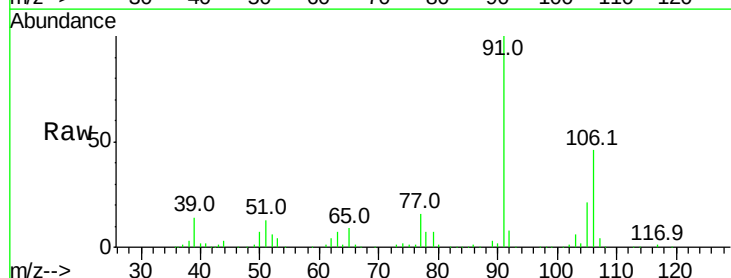
Acq: 19 Sep 2019 15:36

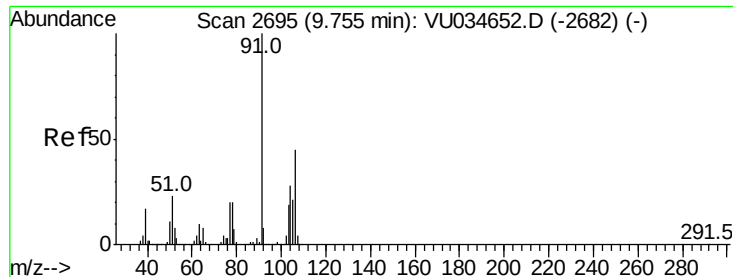
Tgt Ion: 106 Resp: 41067

Ion Ratio Lower Upper

106 100

91 215.8 146.9 272.7





#54

o-xylene

Concen: 7.382 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

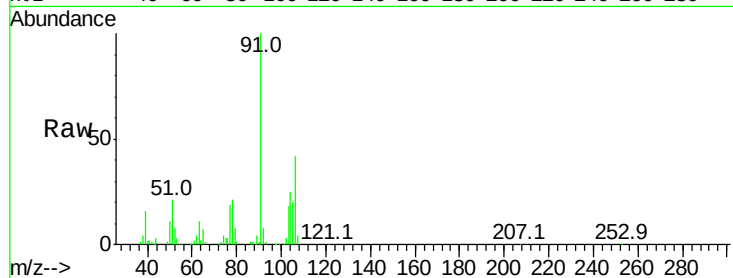
VSTD00531

Tgt Ion:106 Resp: 39010

Ion Ratio Lower Upper

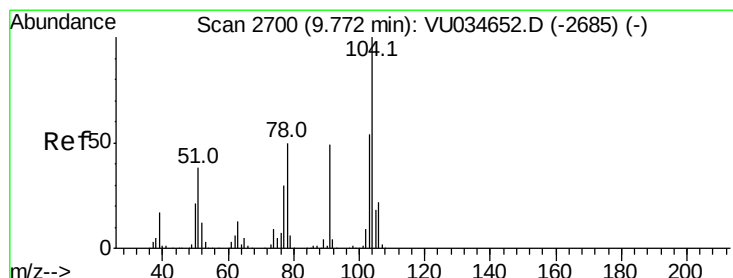
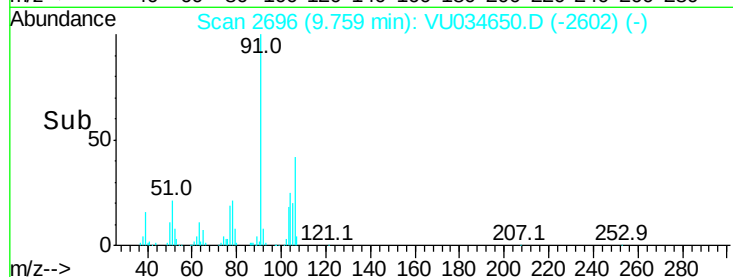
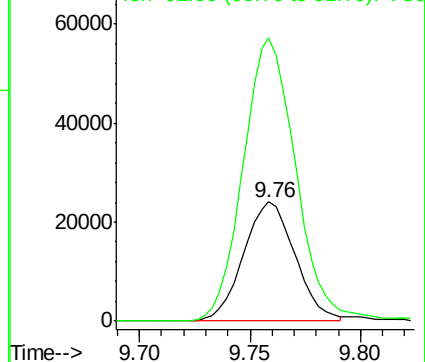
106 100

91 237.4 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 7.205 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU034650.D

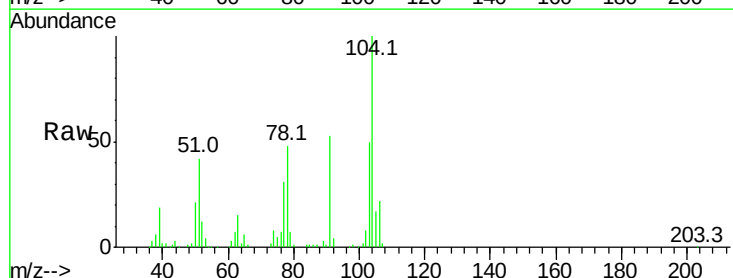
Acq: 19 Sep 2019 15:36

Tgt Ion:104 Resp: 65533

Ion Ratio Lower Upper

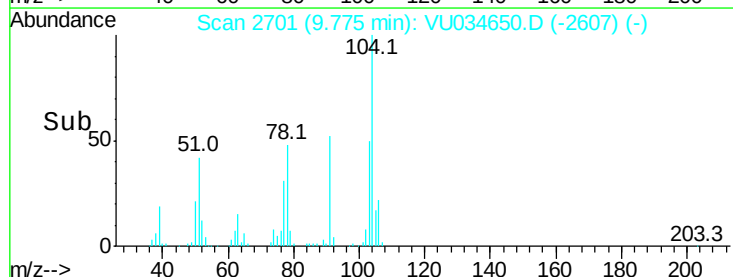
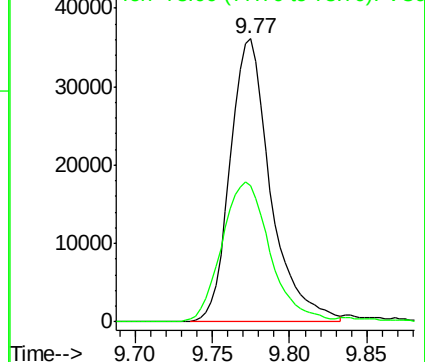
104 100

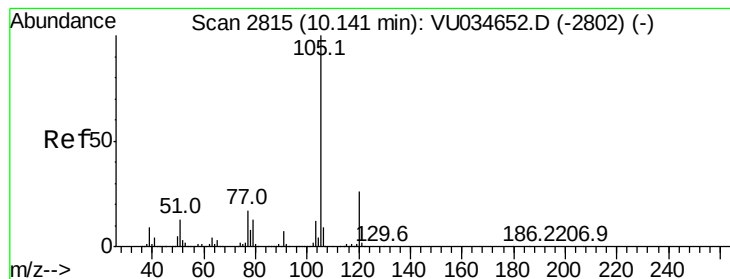
78 48.2 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 7.764 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

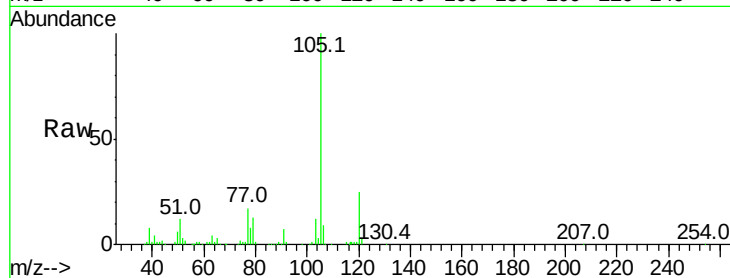
Tgt Ion:105 Resp: 110349

Ion Ratio Lower Upper

105 100

120 24.3 20.4 30.6

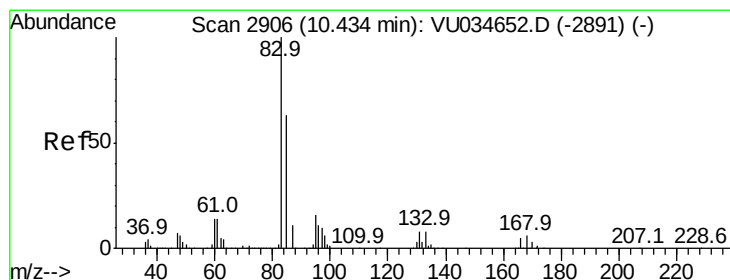
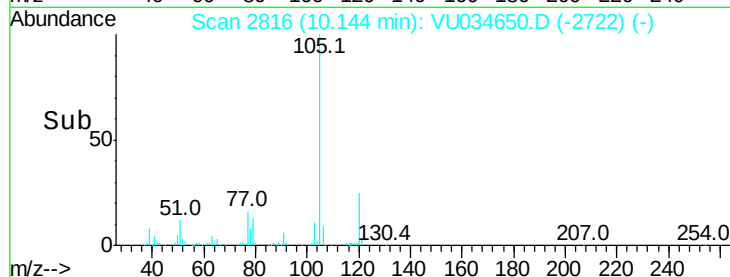
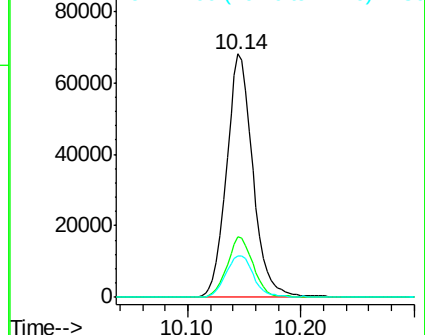
77 18.2 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 6.827 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

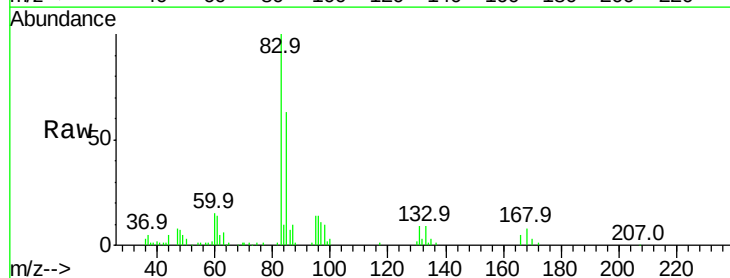
Tgt Ion: 83 Resp: 43669

Ion Ratio Lower Upper

83 100

85 63.4 44.6 82.8

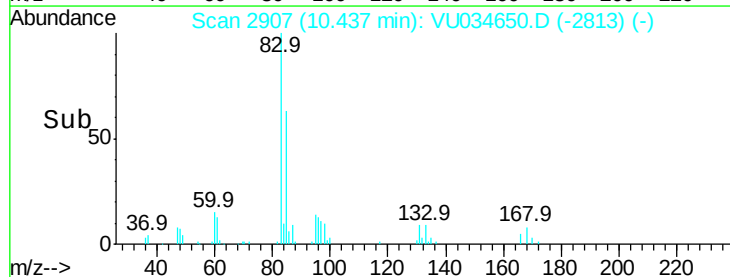
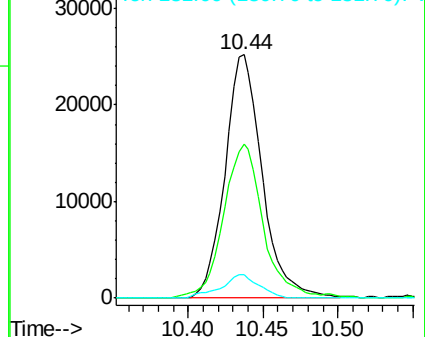
131 9.5 6.6 10.0

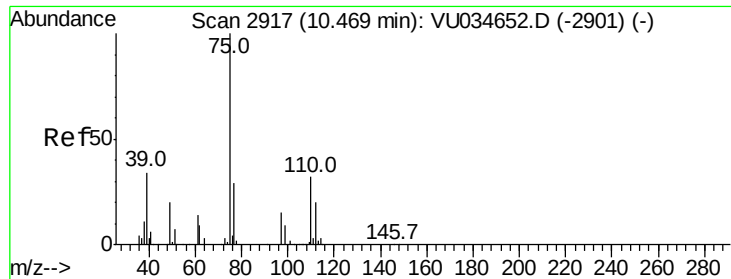


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 7.545 ug/L

RT: 10.47 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

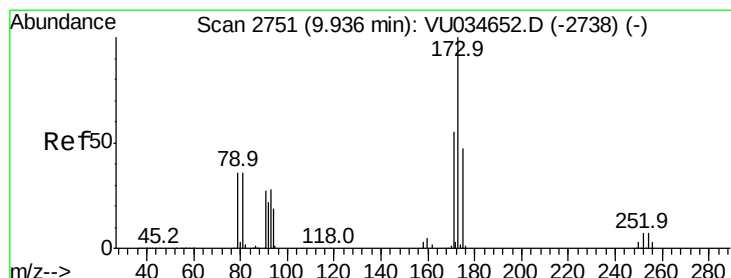
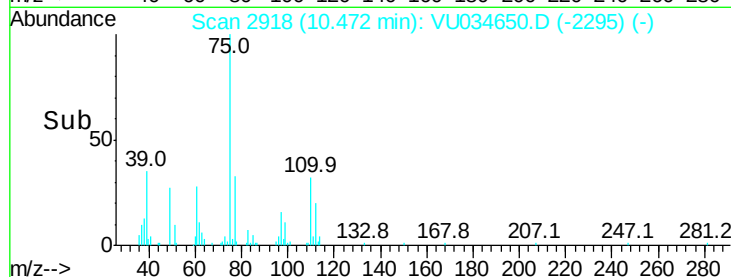
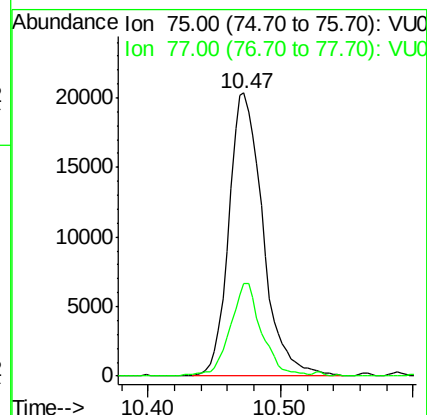
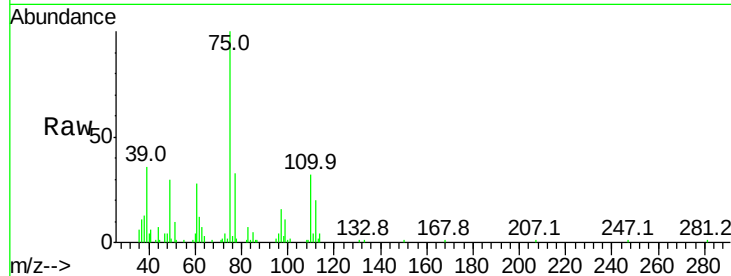
VSTD00531

Tgt Ion: 75 Resp: 36329

Ion Ratio Lower Upper

75 100

77 30.6 24.6 37.0



#61

Bromoform

Concen: 6.270 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

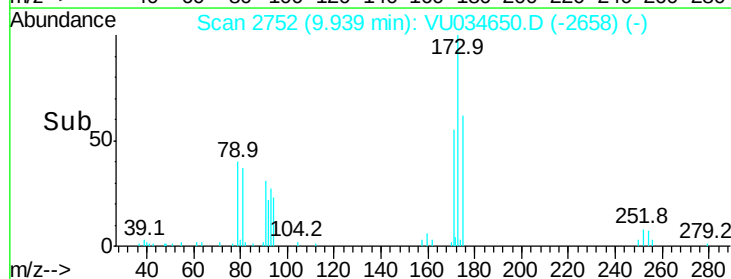
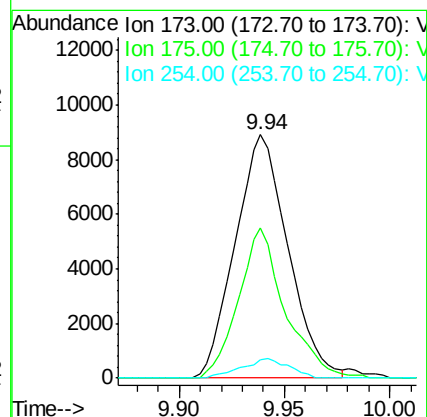
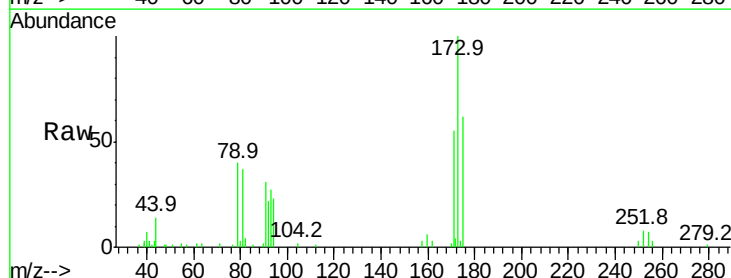
Tgt Ion: 173 Resp: 15500

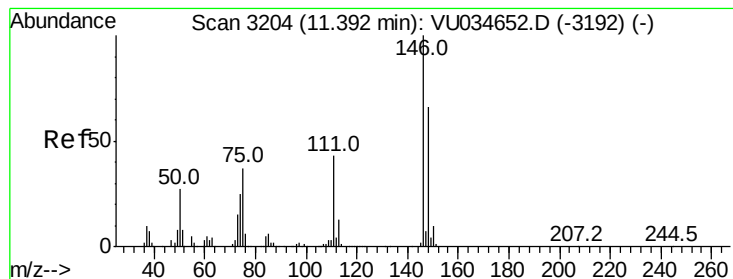
Ion Ratio Lower Upper

173 100

175 53.9 38.8 58.2

254 7.2 5.3 7.9





#62

1,3-Dichlorobenzene

Concen: 7.487 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

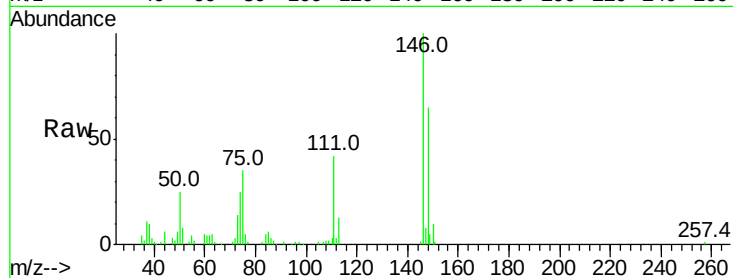
Tgt Ion:146 Resp: 43463

Ion Ratio Lower Upper

146 100

111 41.5 30.4 56.5

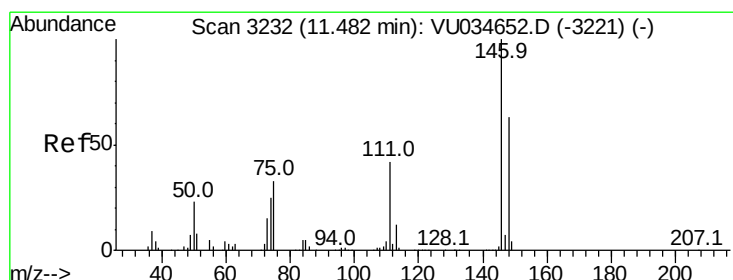
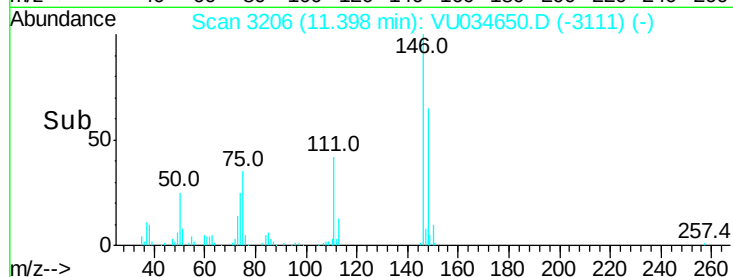
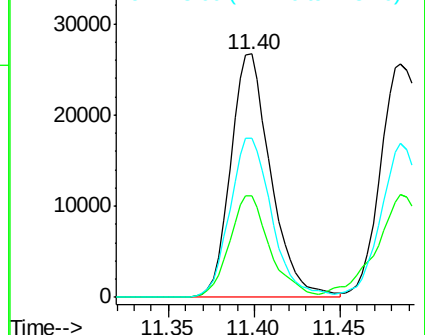
148 65.1 46.1 85.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 7.866 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

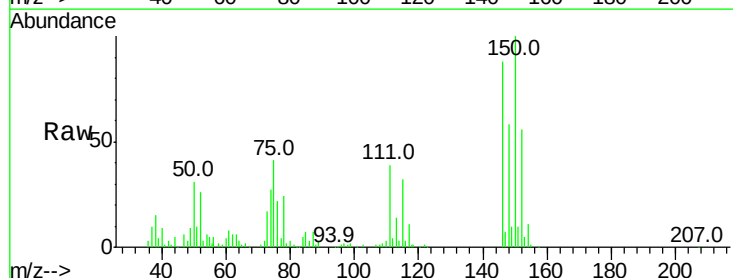
Tgt Ion:146 Resp: 46109

Ion Ratio Lower Upper

146 100

111 43.9 29.5 54.9

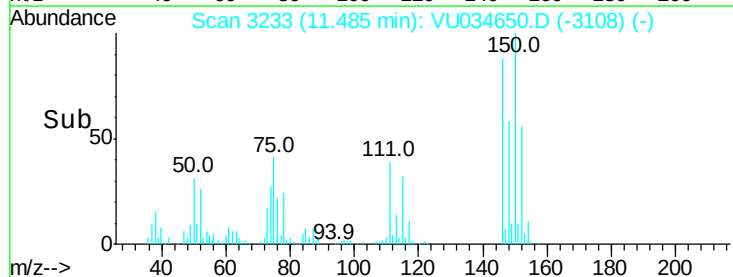
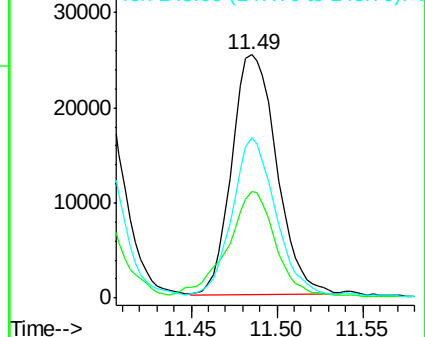
148 65.9 44.4 82.4

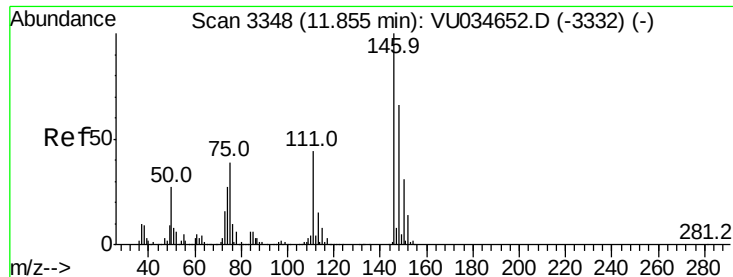


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

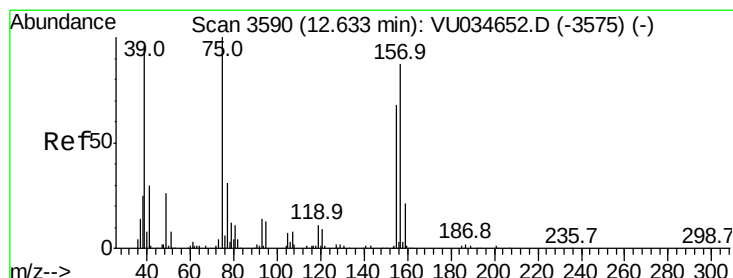
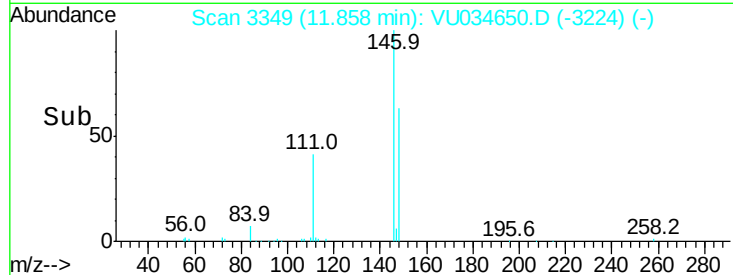
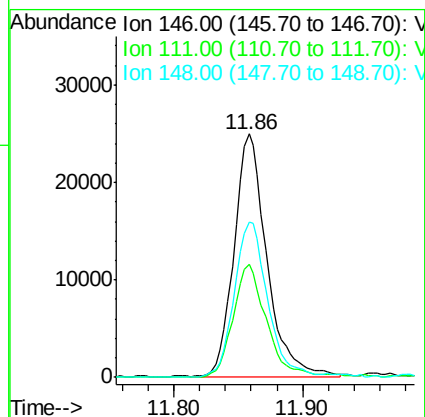
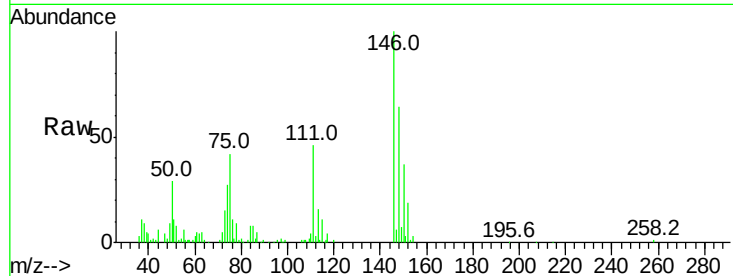




#65
 1,2-Dichlorobenzene
 Concen: 7.580 ug/L
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

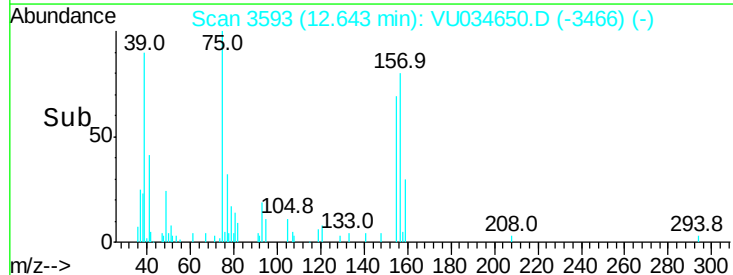
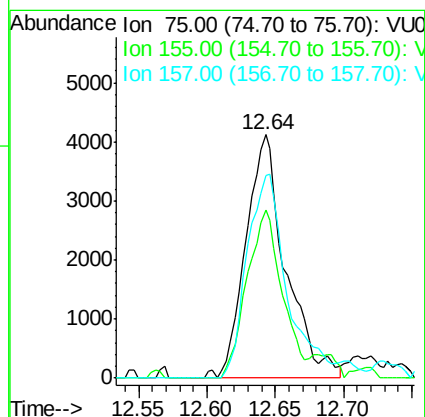
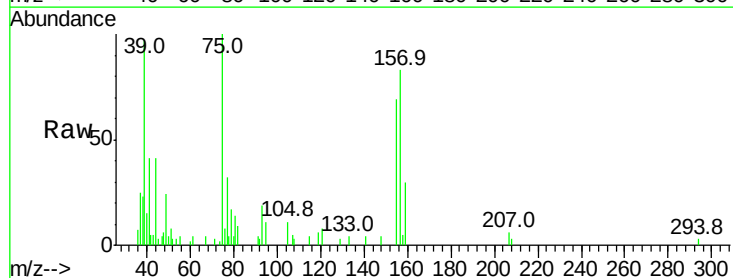
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

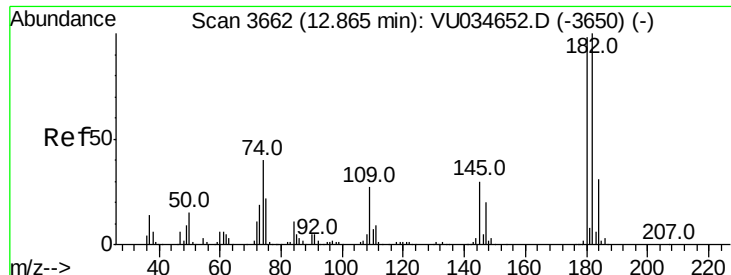
Tgt Ion:146 Resp: 44387
 Ion Ratio Lower Upper
 146 100
 111 46.4 35.2 52.8
 148 64.0 53.0 79.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 6.308 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.01 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Tgt Ion: 75 Resp: 8369
 Ion Ratio Lower Upper
 75 100
 155 69.1 54.7 82.1
 157 83.3 69.9 104.9

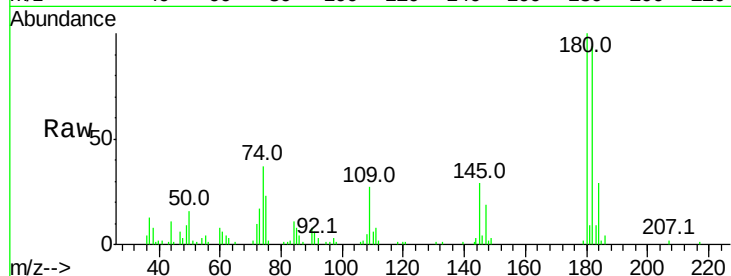




#67
 1,3,5-Trichlorobenzene
 Concen: 7.733 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

Tgt Ion:	180	Resp:	29257
Ion	Ratio	Lower	Upper
180	100		
182	94.3	79.2	118.8
184	30.1	24.6	36.8
145	30.5	24.9	37.3

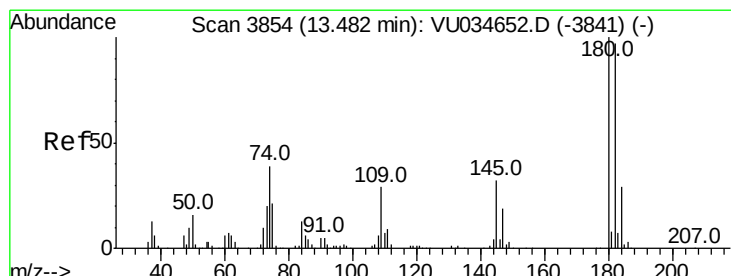
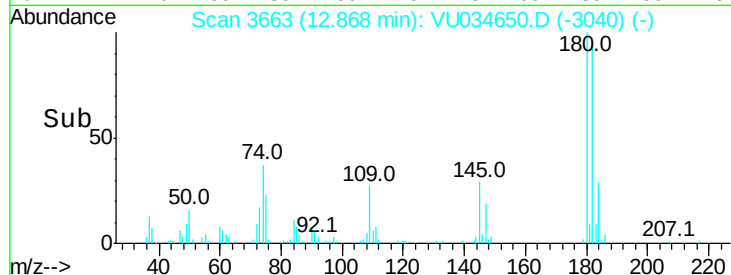
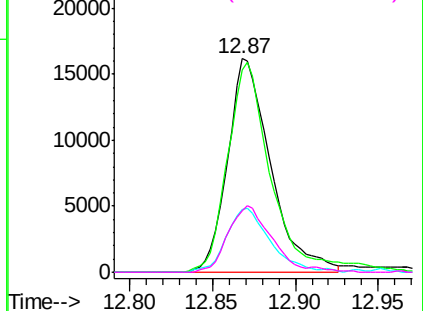


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

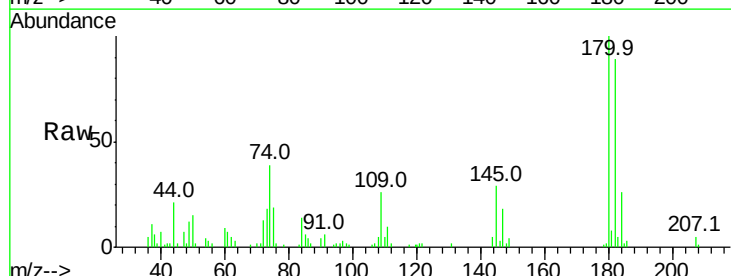
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 6.145 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.01 min
 Lab File: VU034650.D
 Acq: 19 Sep 2019 15:36

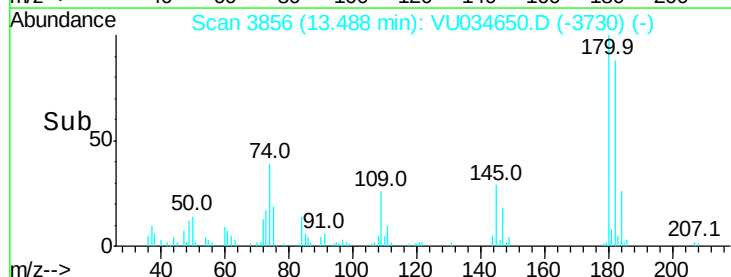
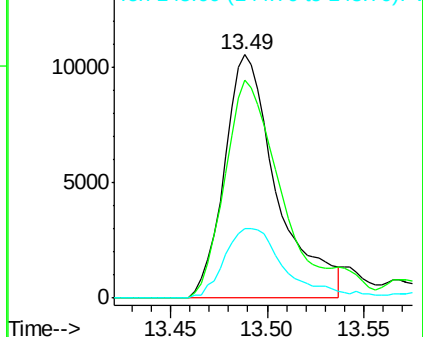
Tgt Ion:	180	Resp:	19862
Ion	Ratio	Lower	Upper
180	100		
182	92.3	75.7	113.5
145	32.3	25.2	37.8

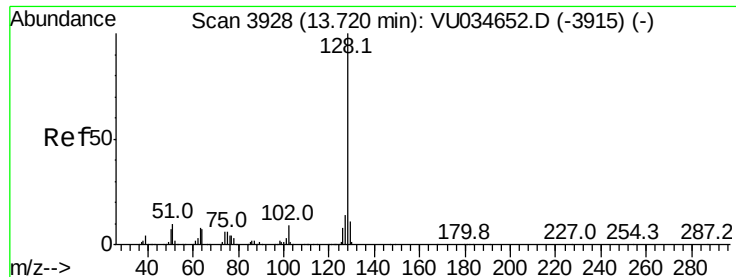


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 6.072 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.01 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

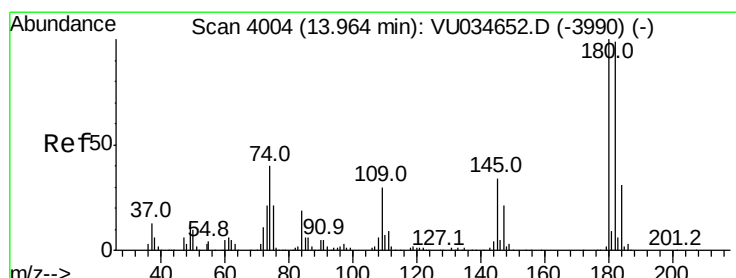
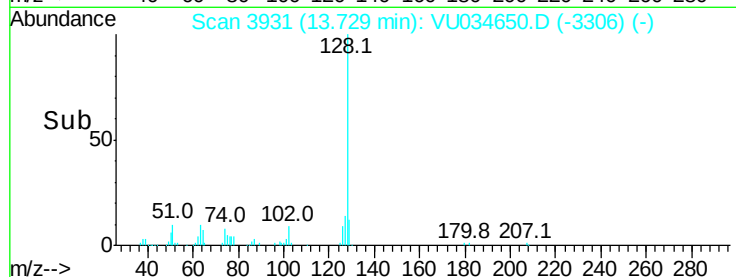
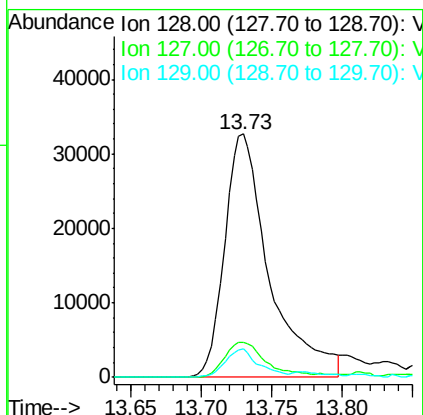
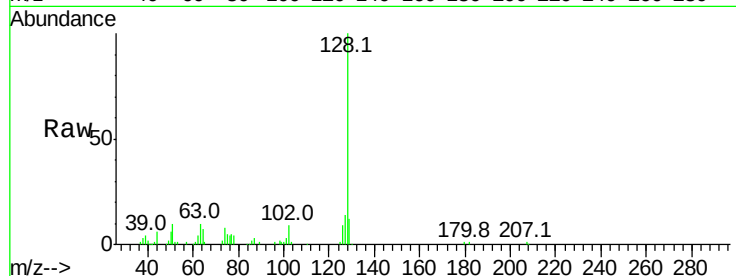
Tgt Ion:128 Resp: 72509

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

129 8.8 8.6 12.8



#70

1,2,3-Trichlorobenzene

Concen: 6.671 ug/L

RT: 13.97 min Scan# 4006

Delta R.T. 0.01 min

Lab File: VU034650.D

Acq: 19 Sep 2019 15:36

Tgt Ion:180 Resp: 22075

Ion Ratio Lower Upper

180 100

182 94.9 79.2 118.8

145 27.4 26.0 39.0

