

Data File : VU036354.D
Acq On : 27 Dec 2019 14:21
Operator : JC/MD
Sample : VSTD200
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Dec 27 14:42:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 27 13:46:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	570442	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	563149	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	283016	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	815303	138.50	ug/L	0.00
7) Chloroethane-d5	1.91	69	684570	135.30	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.59	63	1379279	170.86	ug/L	0.00
21) 2-Butanone-d5	4.68	46	1242779	429.34	ug/L	0.00
24) Chloroform-d	5.11	84	1450852	168.98	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	927556	168.37	ug/L	0.00
32) Benzene-d6	5.77	84	2848061	180.67	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	937007	188.77	ug/L	0.00
41) Toluene-d8	7.93	98	2754552	188.05	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	524464	217.85	ug/L	0.00
47) 2-Hexanone-d5	8.67	63	1034756	520.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	1486897	191.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	1053723	180.06	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	854054	149.780	ug/L	100
3) Chloromethane	1.54	50	798948	133.320	ug/L	100
5) Vinyl chloride	1.62	62	897142	141.632	ug/L	100
6) Bromomethane	1.85	94	494146	133.546	ug/L	99
8) Chloroethane	1.93	64	536052	143.387	ug/L	100
9) Trichlorofluoromethane	2.15	101	1293349	158.846	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	627116	160.922	ug/L	99
12) 1,1-Dichloroethene	2.60	96	629804	170.153	ug/L	91
13) Acetone	2.66	43	1160871	335.511	ug/L	99
14) Carbon disulfide	2.82	76	1948128	167.400	ug/L	99
15) Methyl Acetate	2.98	43	873525	189.590	ug/L	100
16) Methylene chloride	3.08	84	755638	164.261	ug/L	99
17) trans-1,2-Dichloroethene	3.39	96	691460	177.347	ug/L	97
18) Methyl tert-butyl Ether	3.41	73	2440661	209.556	ug/L	99
19) 1,1-Dichloroethane	3.92	63	1320066	175.135	ug/L	95
20) cis-1,2-Dichloroethene	4.71	96	805519	184.567	ug/L	# 93
22) 2-Butanone	4.76	43	1505826	411.773	ug/L	97
23) Bromochloromethane	5.02	128	394998	163.573	ug/L	97
25) Chloroform	5.13	83	1400841	172.701	ug/L	97
27) 1,2-Dichloroethane	5.84	62	1109752	176.588	ug/L	98
29) Cyclohexane	5.43	56	1218909	223.479	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	1251029	197.205	ug/L	98
31) Carbon tetrachloride	5.57	117	1123566	198.371	ug/L	98
33) Benzene	5.82	78	3057184	190.761	ug/L	100
34) Trichloroethene	6.58	95	823544	201.680	ug/L	99
35) Methylcyclohexane	6.80	83	1268099	214.411	ug/L	99
37) 1,2-Dichloropropane	6.83	63	811515	194.443	ug/L	100
38) Bromodichloromethane	7.14	83	1165321	207.115	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	1415335	225.225	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	2833271	525.594	ug/L	100

Data File : VU036354.D
Acq On : 27 Dec 2019 14:21
Operator : JC/MD
Sample : VSTD200
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Dec 27 14:42:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 27 13:46:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	3408929	200.453	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	1316835	224.389	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	803054	192.269	ug/L	98
46) Tetrachloroethene	8.58	164	576611	163.900	ug/L	98
48) 2-Hexanone	8.72	43	2300067	511.391	ug/L	96
49) Dibromochloromethane	8.84	129	969192	201.272	ug/L	99
50) 1,2-Dibromoethane	8.96	107	917512	203.417	ug/L	97
51) Chlorobenzene	9.47	112	2203729	192.814	ug/L	100
52) Ethylbenzene	9.60	91	3963238	220.737	ug/L	98
53) m,p-Xylene	9.72	106	1474685	212.632	ug/L	99
54) o-xylene	10.13	106	1478088	220.757	ug/L	97
55) Styrene	10.14	104	2605477	224.168	ug/L	100
56) Isopropylbenzene	10.51	105	3897587	224.772	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	1478136	202.906	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	1178304	198.095	ug/L	98
61) Bromoform	10.32	173	777309	205.175	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	1735145	199.767	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	1707506	191.339	ug/L	100
65) 1,2-Dichlorobenzene	12.24	146	1694833	190.643	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	387012	246.540	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	1162267	186.436	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	1010921	221.081	ug/L	98
69) Naphthalene	14.10	128	3654215	299.328	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	1000848	204.709	ug/L	100

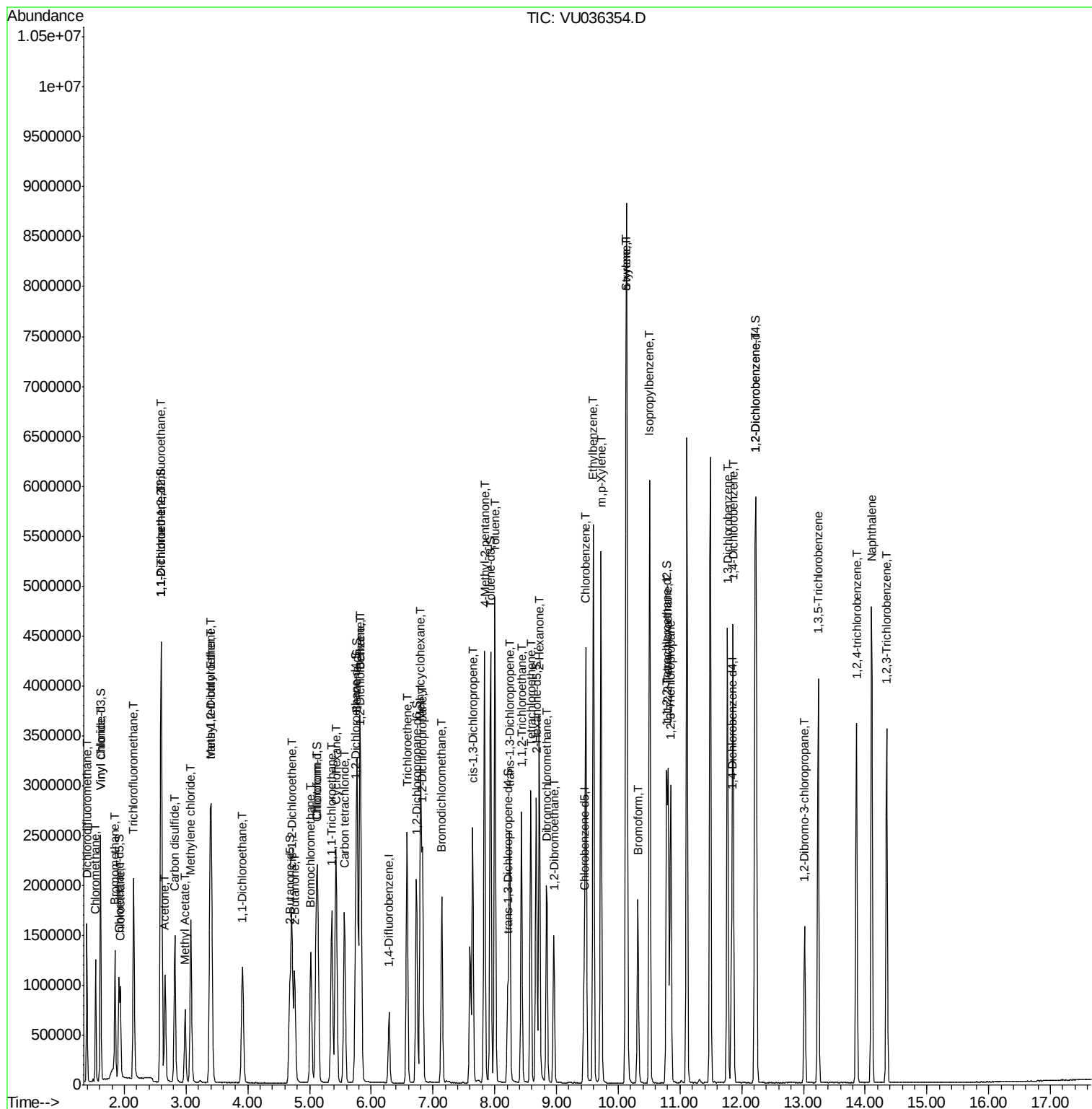
(#) = qualifier out of range (m) = manual integration (+) = signals summed

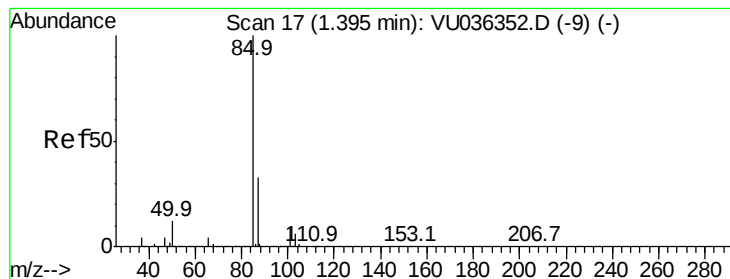
Data File : VU036354.D

```
Acq On       : 27 Dec 2019   14:21
Operator     : JC/MD
Sample       : VSTD200
Misc         : 5.0mL/MSV0A_U/WATER
ALS Vial     : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Dec 27 14:42:13 2019
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 27 13:46:20 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 149.780 ug/L

RT: 1.39 min Scan# 16

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

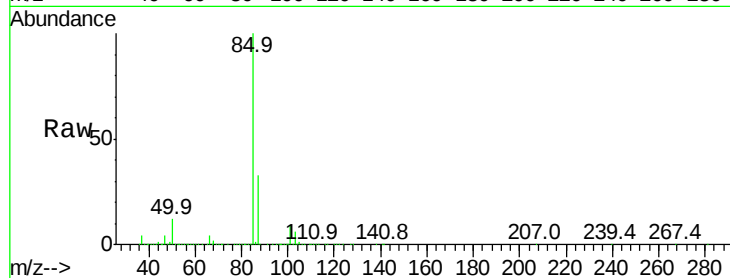
VSTD20036

Tgt Ion: 85 Resp: 854054

Ion Ratio Lower Upper

85 100

87 32.5 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU036354.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036354.D (-1) (-)

1.39

800000

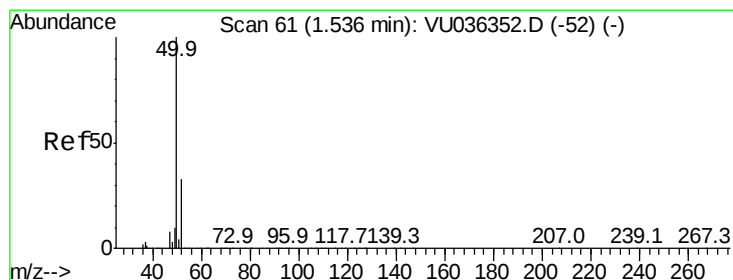
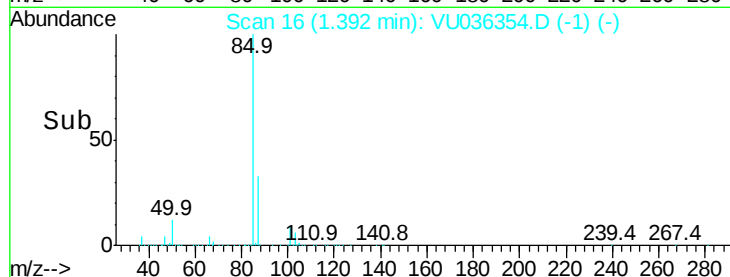
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 133.320 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036354.D

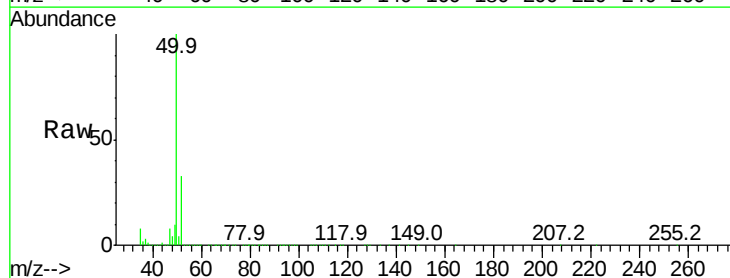
Acq: 27 Dec 2019 14:21

Tgt Ion: 50 Resp: 798948

Ion Ratio Lower Upper

50 100

52 32.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU036354.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU036354.D (-1) (-)

1.54

800000

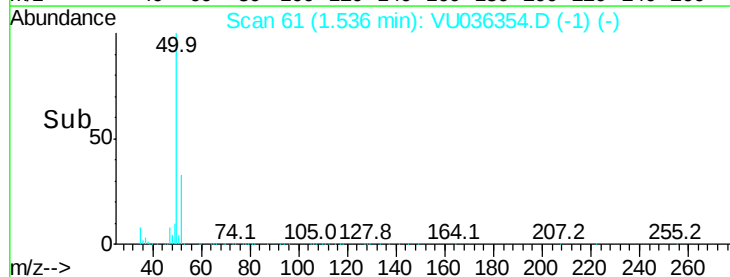
600000

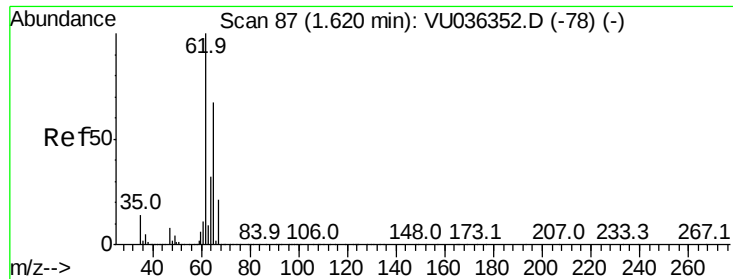
400000

200000

0

Time-->





#5

Vinyl chloride

Concen: 141.632 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

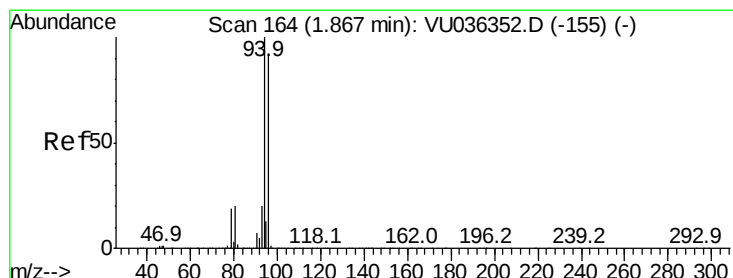
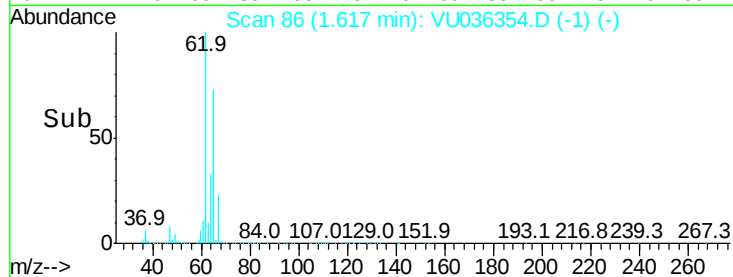
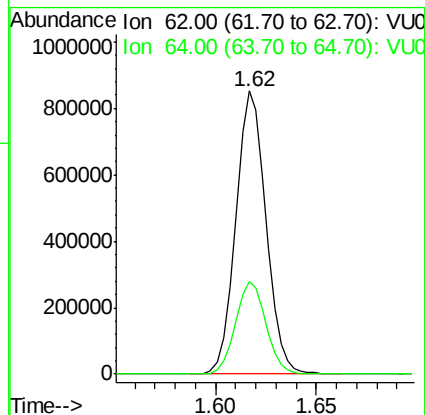
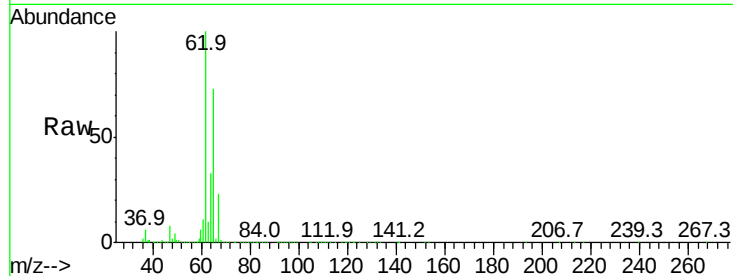
VSTD20036

Tgt Ion: 62 Resp: 897142

Ion Ratio Lower Upper

62 100

64 32.7 22.7 42.3



#6

Bromomethane

Concen: 133.546 ug/L

RT: 1.85 min Scan# 158

Delta R.T. -0.02 min

Lab File: VU036354.D

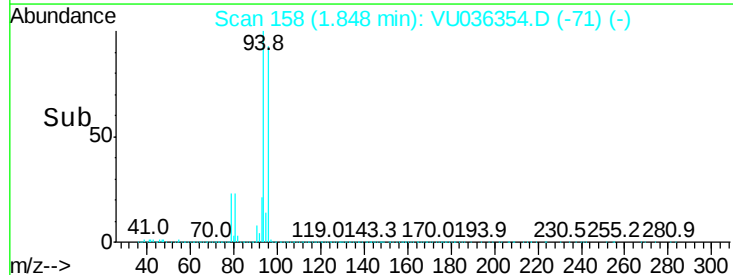
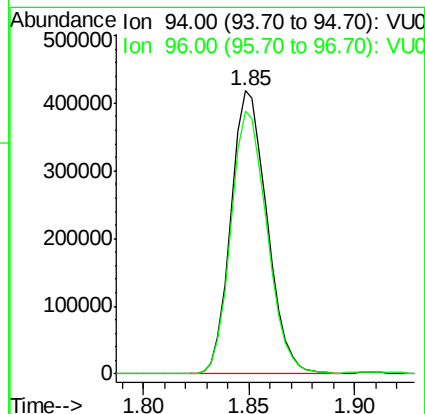
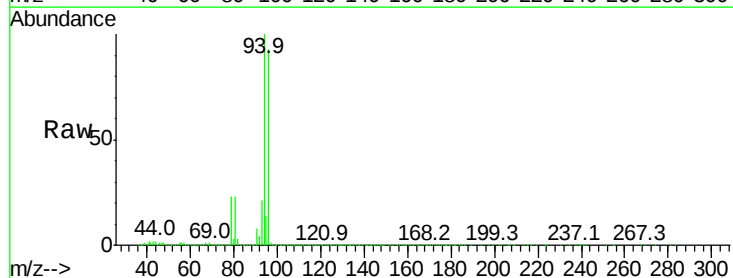
Acq: 27 Dec 2019 14:21

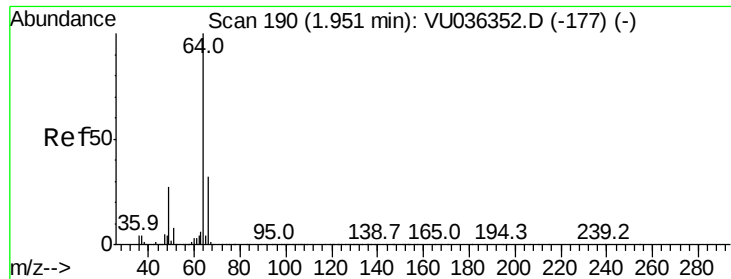
Tgt Ion: 94 Resp: 494146

Ion Ratio Lower Upper

94 100

96 92.9 64.5 119.7





#8

Chloroethane

Concen: 143.387 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.02 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

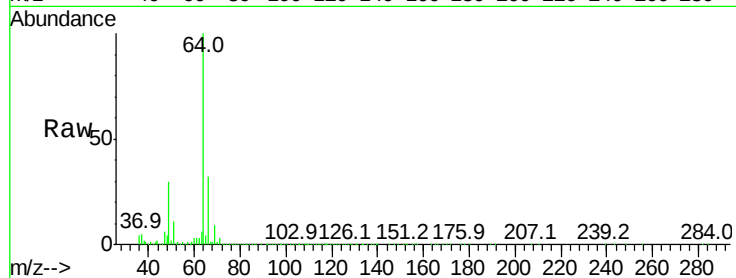
VSTD20036

Tgt Ion: 64 Resp: 536052

Ion Ratio Lower Upper

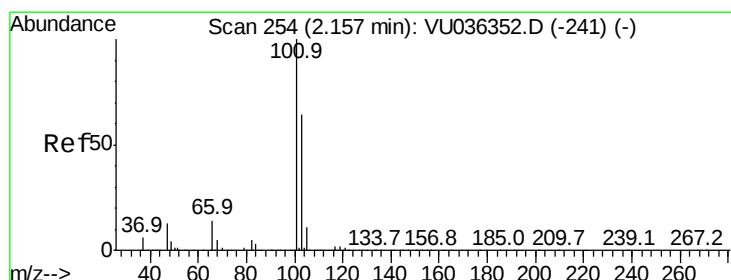
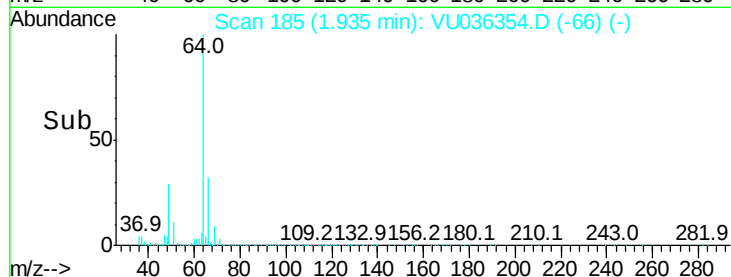
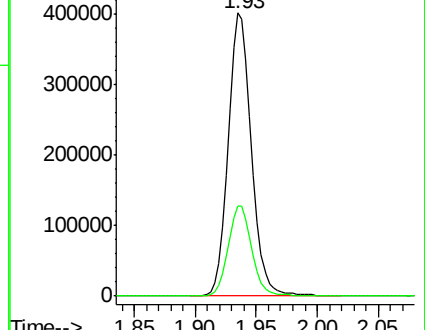
64 100

66 31.7 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU036352.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU036352.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 158.846 ug/L

RT: 2.15 min Scan# 252

Delta R.T. -0.01 min

Lab File: VU036354.D

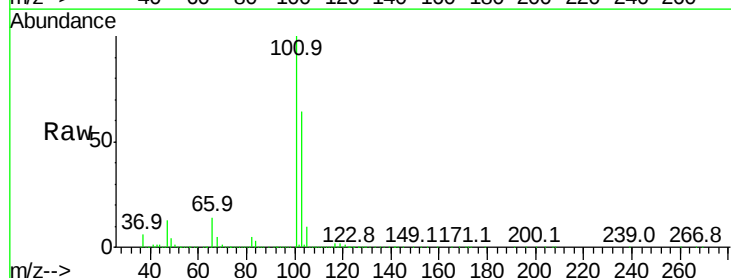
Acq: 27 Dec 2019 14:21

Tgt Ion: 101 Resp: 1293349

Ion Ratio Lower Upper

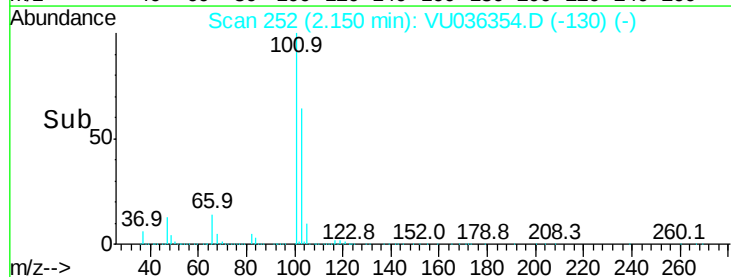
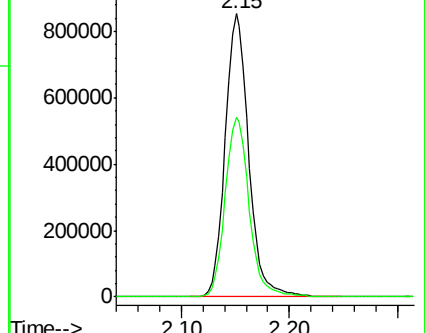
101 100

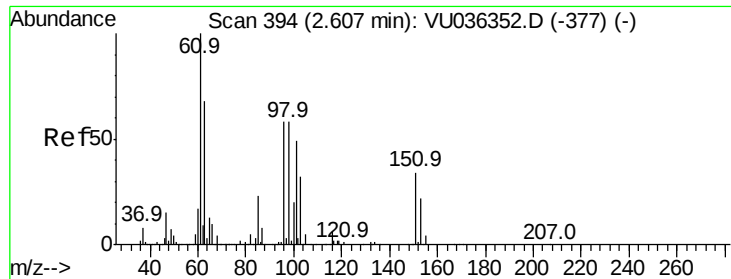
103 64.9 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU036352.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU036352.D (-241) (-)





#10

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

Concen: 160.922 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

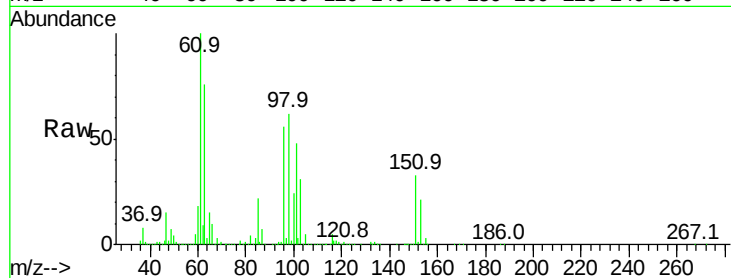
Tgt Ion:101 Resp: 627116

Ion Ratio Lower Upper

101 100

85 46.1 37.1 55.7

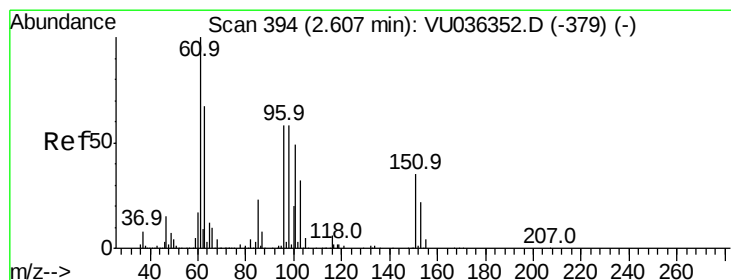
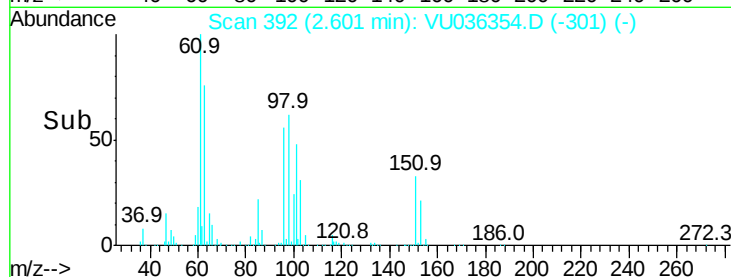
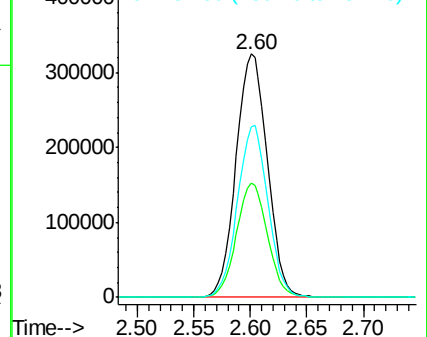
151 68.9 54.3 81.5



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: 170.153 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

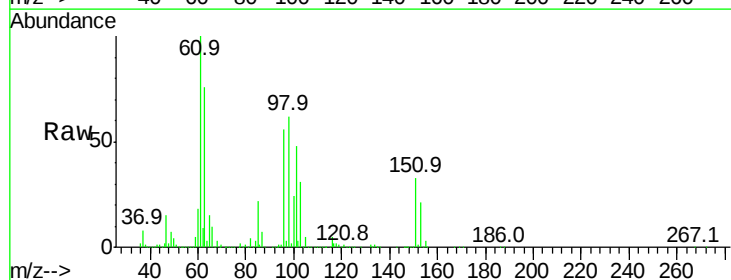
Tgt Ion: 96 Resp: 629804

Ion Ratio Lower Upper

96 100

61 177.6 120.9 224.5

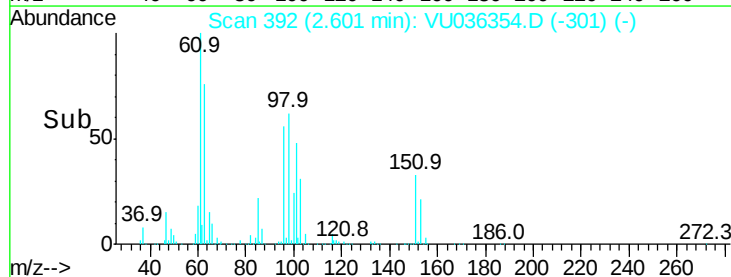
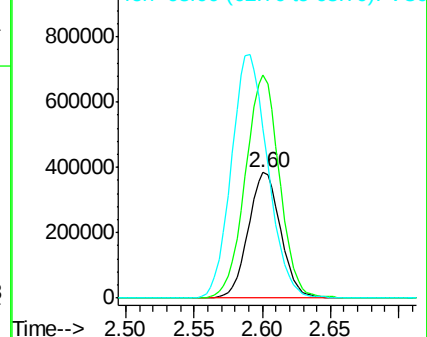
63 134.4 81.8 152.0

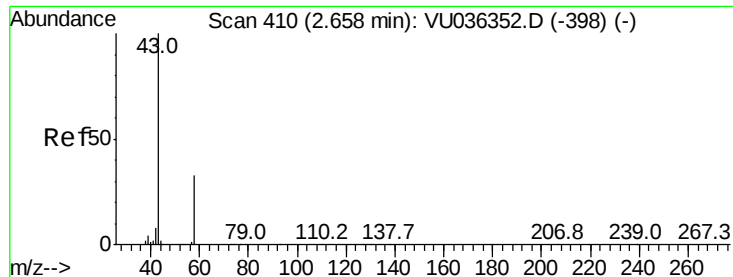


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 335.511 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

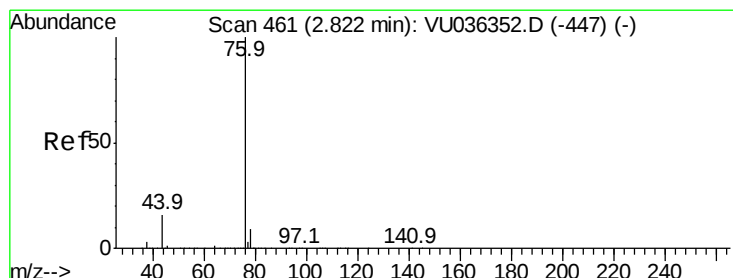
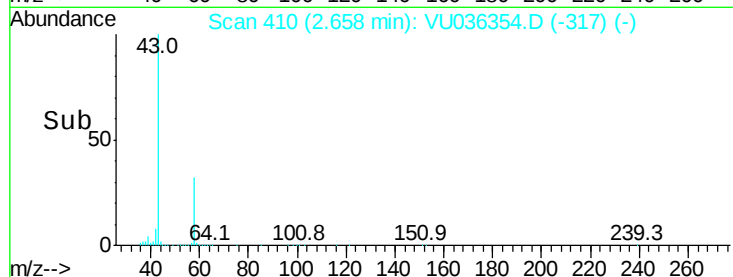
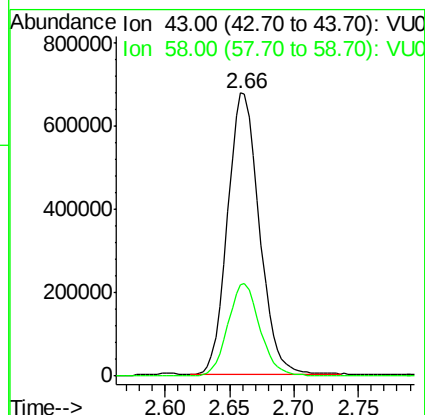
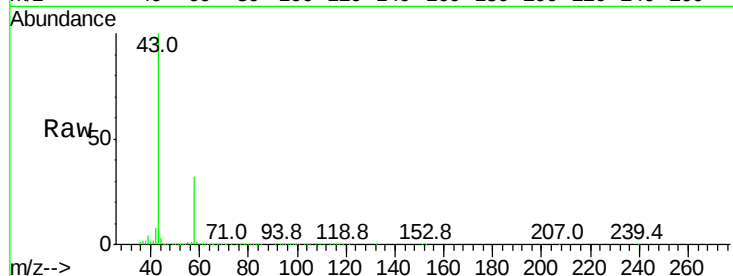
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Tgt Ion: 43 Resp: 1160871

Ion Ratio Lower Upper

43 100

58 32.7 0.0 66.2



#14

Carbon disulfide

Concen: 167.400 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.01 min

Lab File: VU036354.D

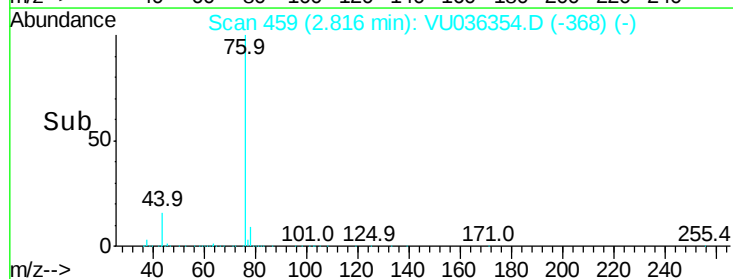
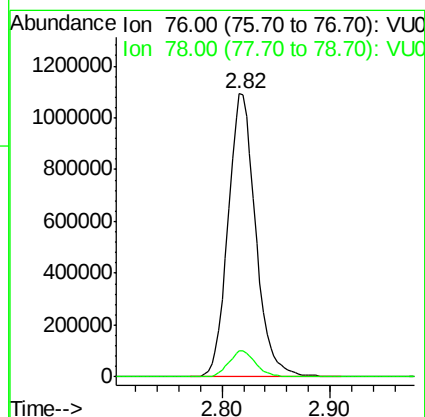
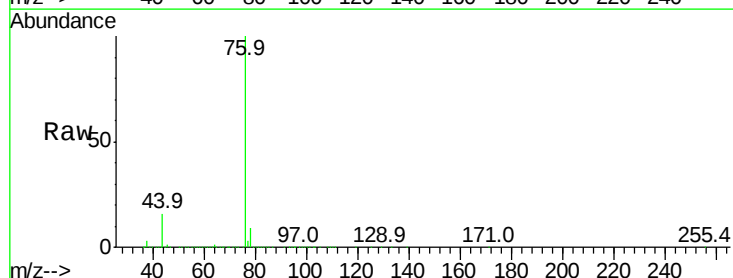
Acq: 27 Dec 2019 14:21

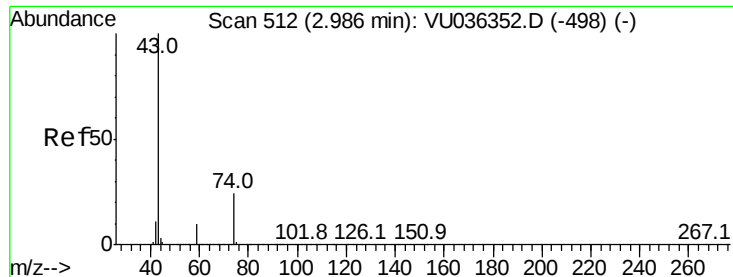
Tgt Ion: 76 Resp: 1948128

Ion Ratio Lower Upper

76 100

78 9.1 7.6 11.4





#15

Methyl Acetate

Concen: 189.590 ug/L

RT: 2.98 min Scan# 511

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

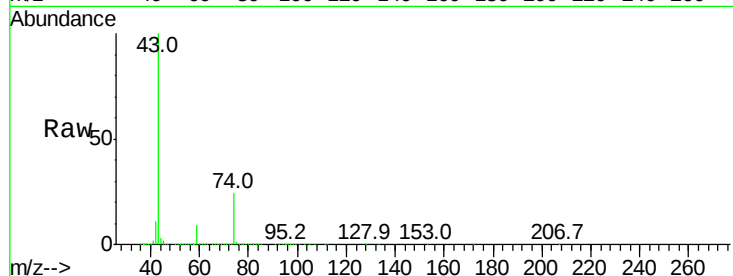
VSTD20036

Tgt Ion: 43 Resp: 873525

Ion Ratio Lower Upper

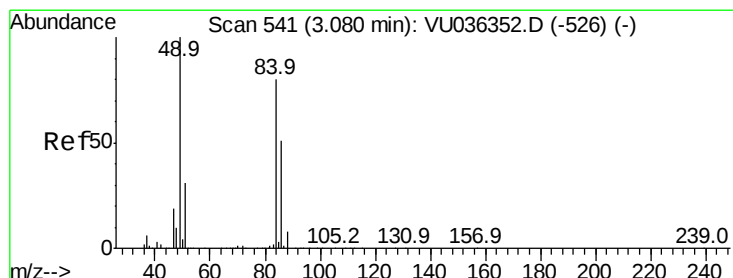
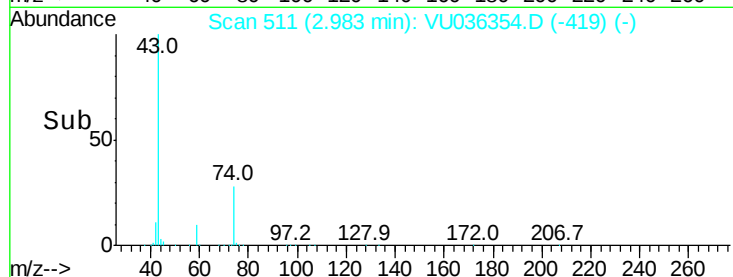
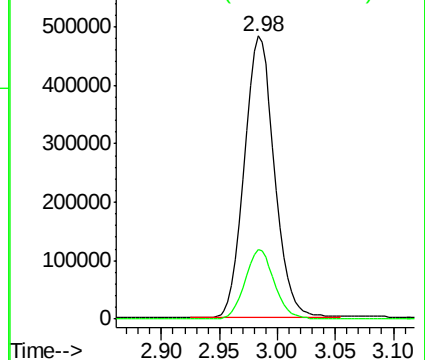
43 100

74 24.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VU036352.D (-498) (-)

Ion 74.00 (73.70 to 74.70): VU036352.D (-498) (-)



#16

Methylene chloride

Concen: 164.261 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

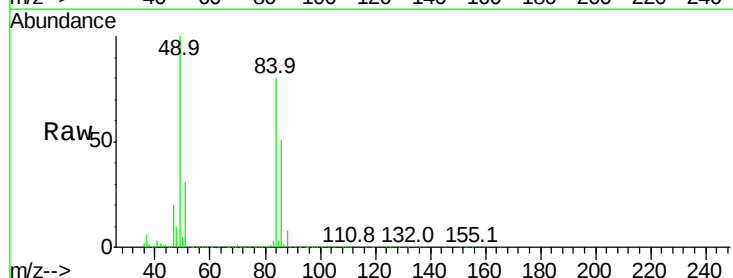
Tgt Ion: 84 Resp: 755638

Ion Ratio Lower Upper

84 100

86 64.4 44.6 82.8

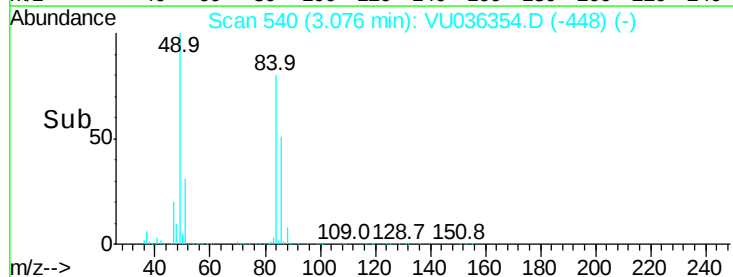
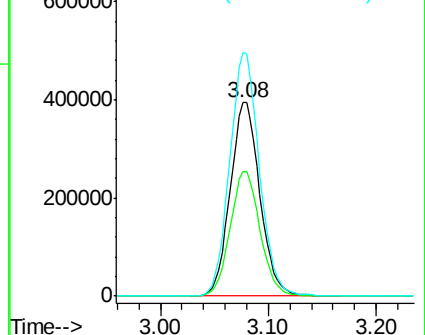
49 125.7 87.6 162.6

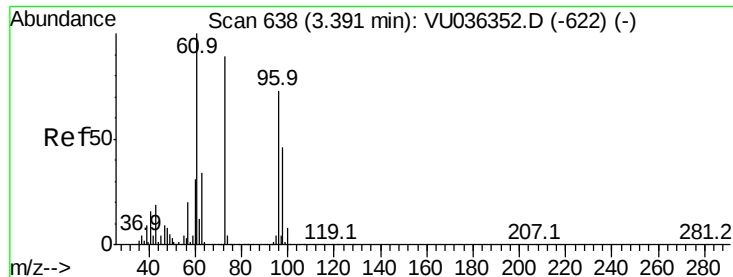


Abundance Ion 84.00 (83.70 to 84.70): VU036352.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU036352.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU036352.D (-526) (-)





#17

trans-1,2-Dichloroethene

Concen: 177.347 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

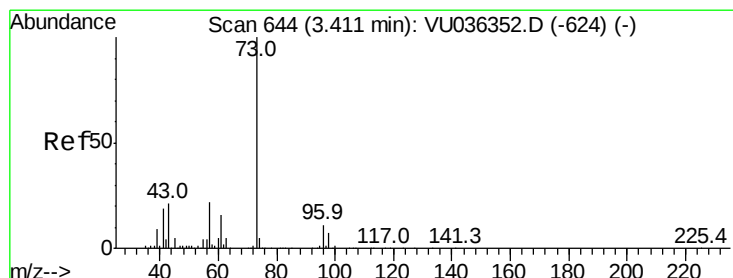
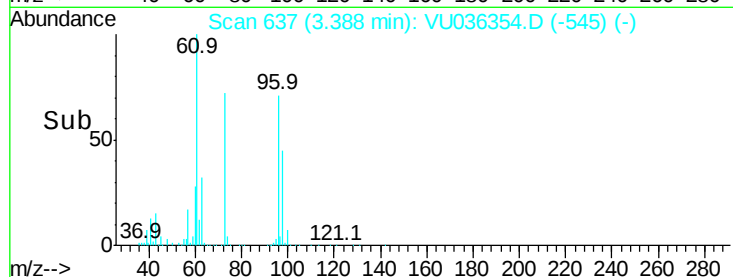
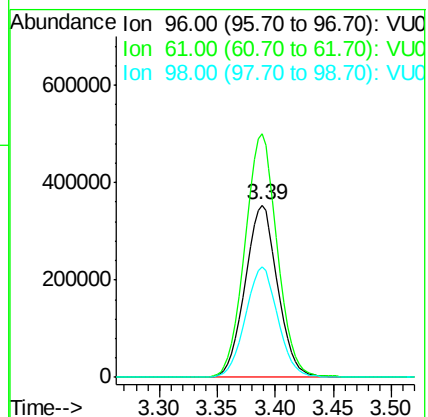
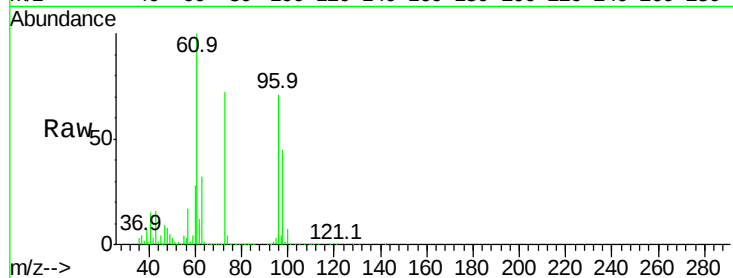
Tgt Ion: 96 Resp: 691460

Ion Ratio Lower Upper

96 100

61 141.3 96.2 178.8

98 64.1 44.2 82.2



#18

Methyl tert-butyl Ether

Concen: 209.556 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

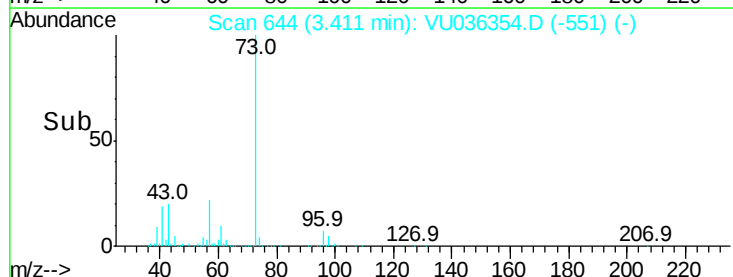
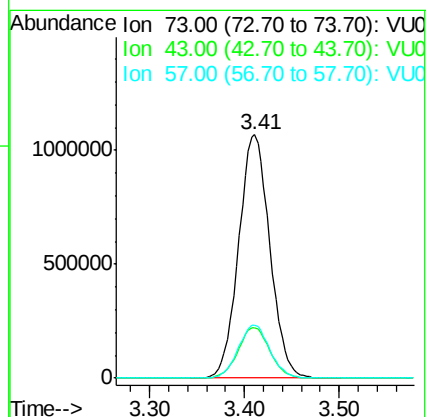
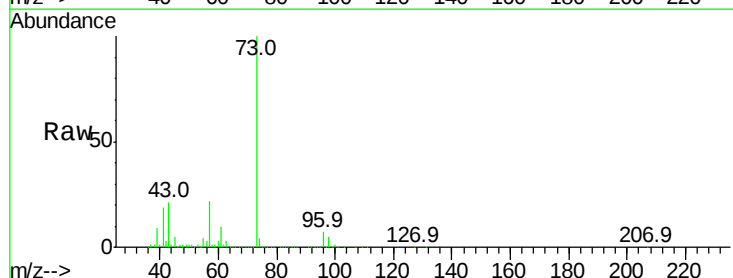
Tgt Ion: 73 Resp: 2440661

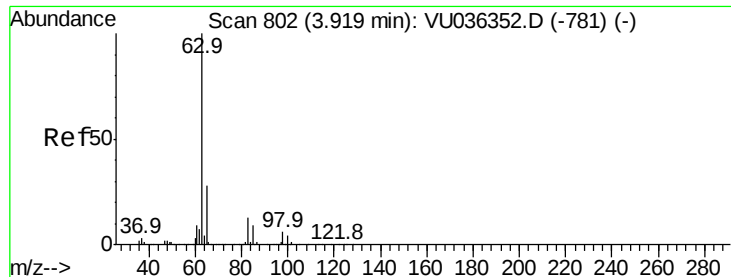
Ion Ratio Lower Upper

73 100

43 20.6 16.3 24.5

57 21.8 17.7 26.5





#19

1,1-Dichloroethane

Concen: 175.135 ug/L

RT: 3.92 min Scan# 801

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

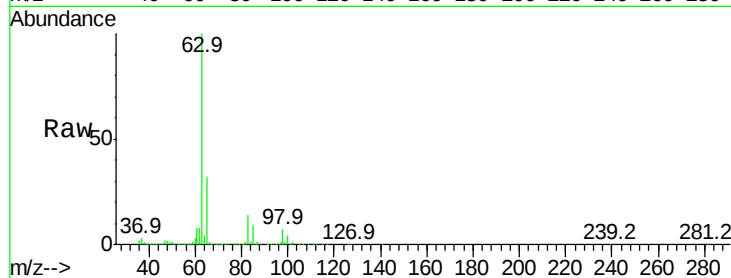
Tgt Ion: 63 Resp: 1320066

Ion Ratio Lower Upper

63 100

65 32.2 20.0 37.2

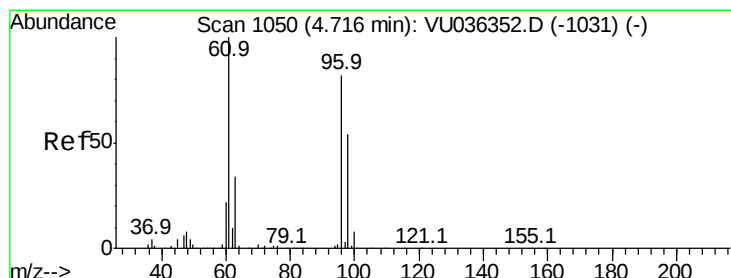
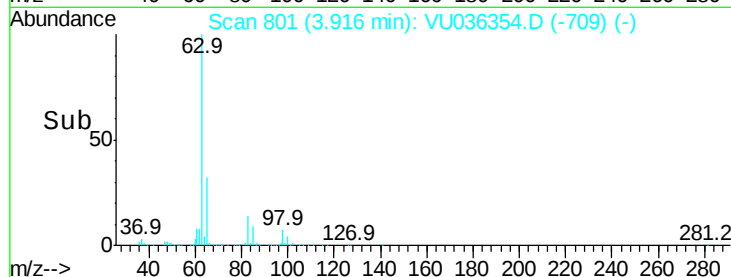
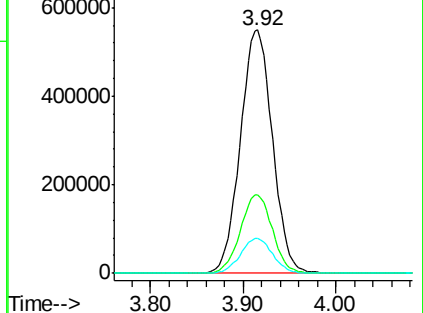
83 14.3 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU036352.D (-781) (-)

Ion 65.00 (64.70 to 65.70): VU036352.D (-781) (-)

Ion 83.00 (82.70 to 83.70): VU036352.D (-781) (-)



#20

cis-1,2-Dichloroethene

Concen: 184.567 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

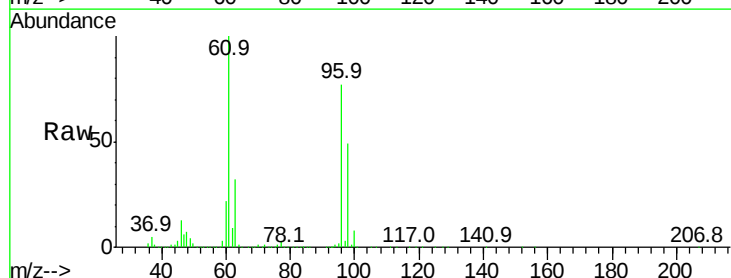
Tgt Ion: 96 Resp: 805519

Ion Ratio Lower Upper

96 100

61 129.9 85.1 158.1

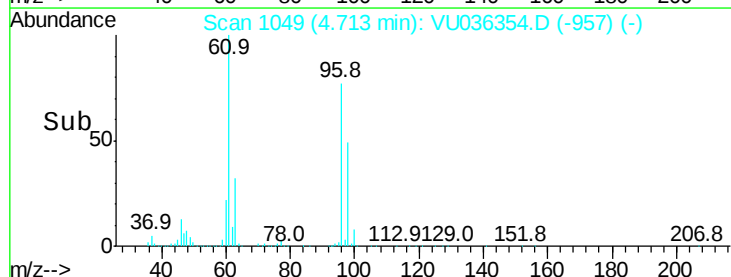
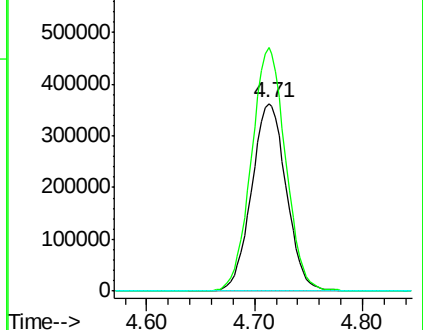
68 0.1 0.1 0.3#

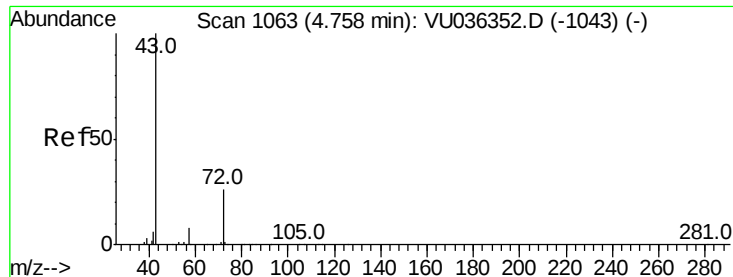


Abundance Ion 96.00 (95.70 to 96.70): VU036352.D (-1031) (-)

Ion 61.00 (60.70 to 61.70): VU036352.D (-1031) (-)

Ion 68.00 (67.70 to 68.70): VU036352.D (-1031) (-)





#22

2-Butanone

Concen: 411.773 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

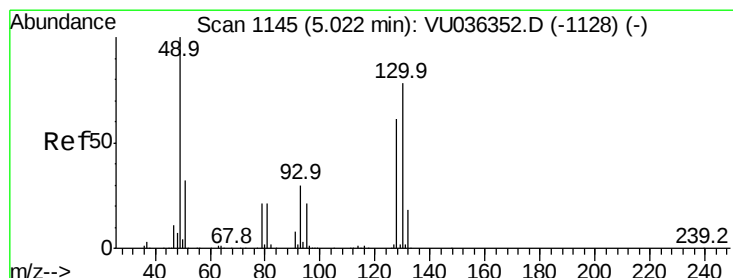
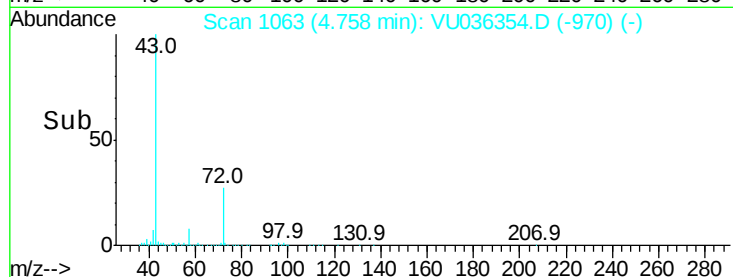
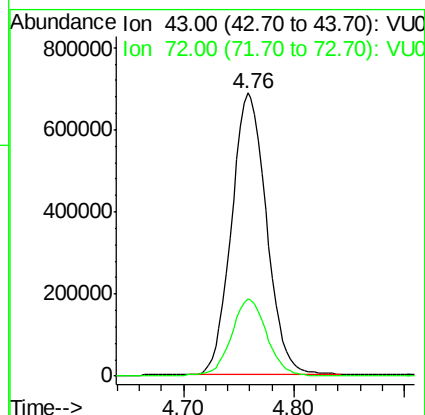
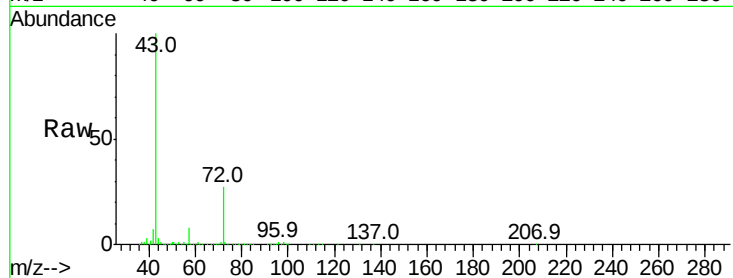
VSTD20036

Tgt Ion: 43 Resp: 1505826

Ion Ratio Lower Upper

43 100

72 28.2 13.4 40.1



#23

Bromochloromethane

Concen: 163.573 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Tgt Ion: 128 Resp: 394998

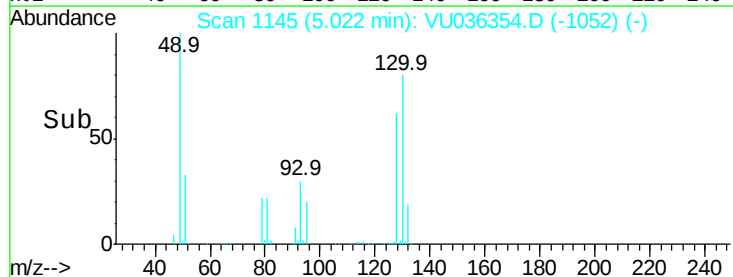
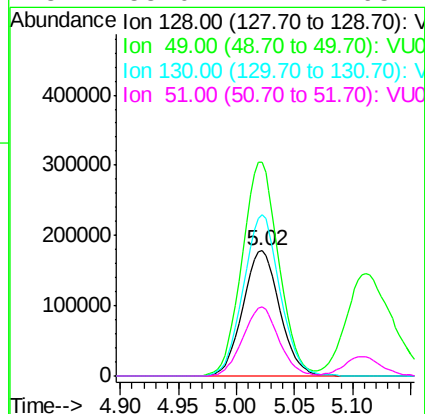
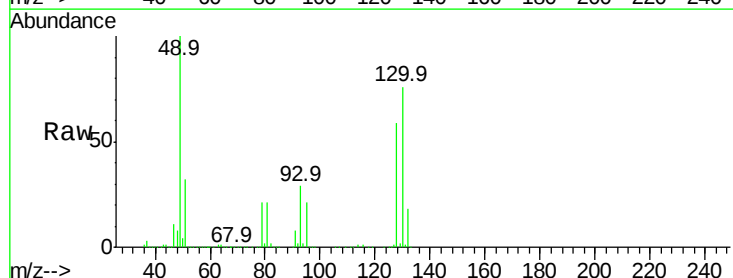
Ion Ratio Lower Upper

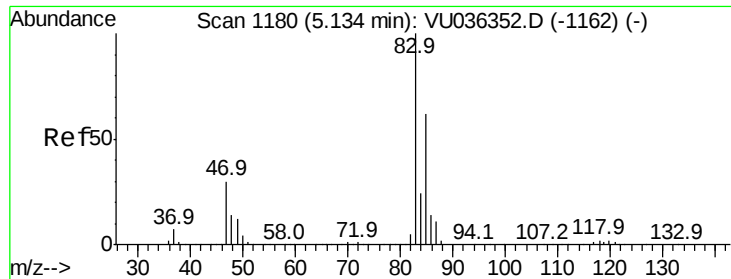
128 100

49 170.9 115.0 213.6

130 129.3 89.1 165.5

51 55.0 42.2 63.4

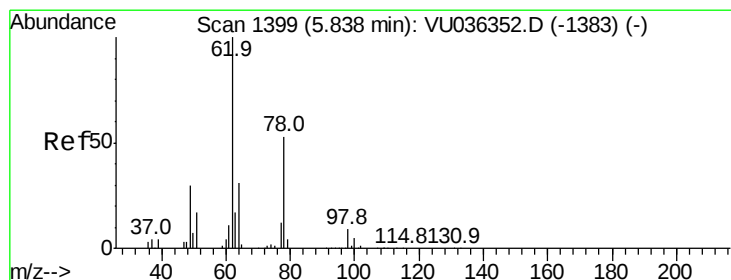
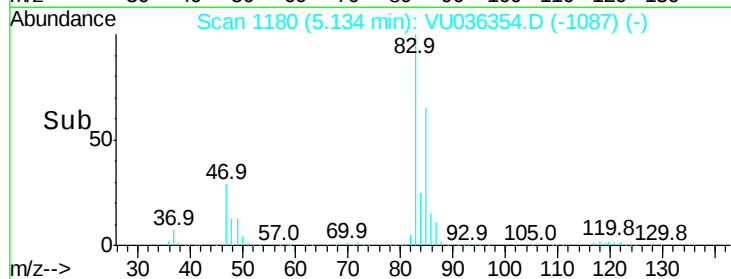
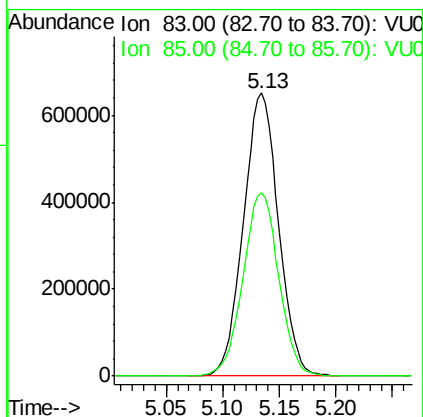
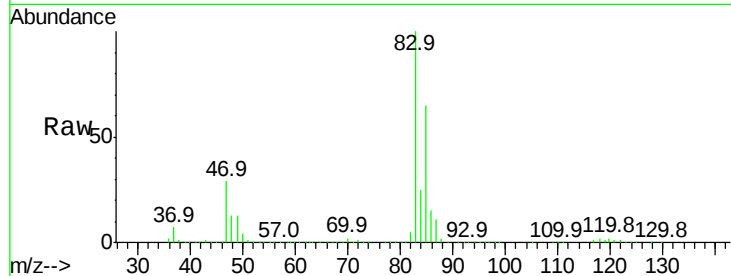




#25
Chloroform
Concen: 172.701 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

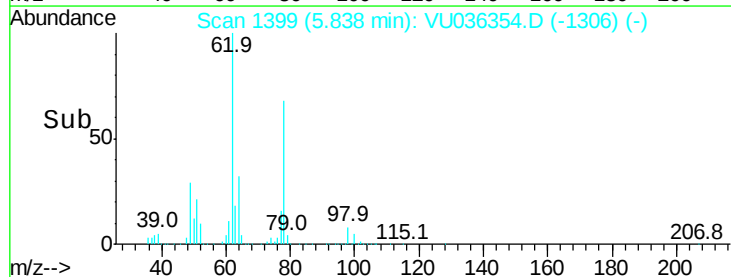
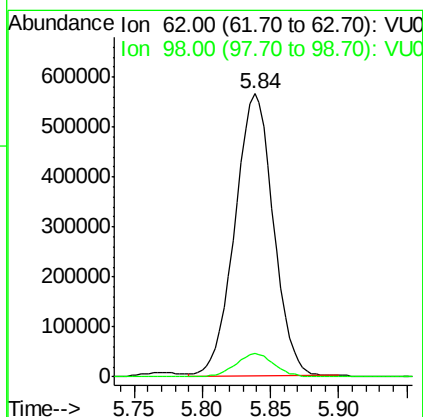
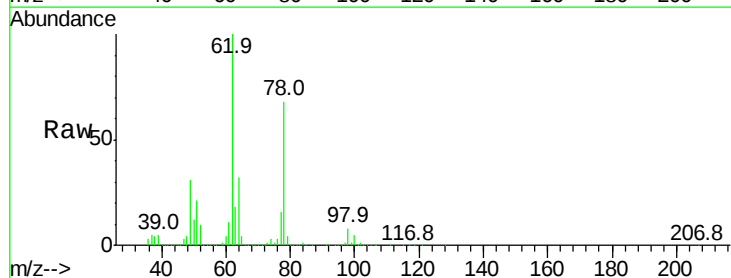
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

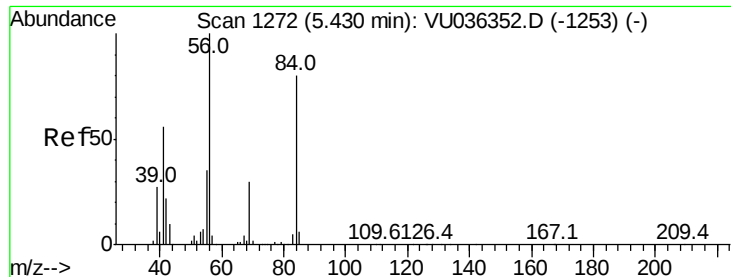
Tgt Ion: 83 Resp: 1400841
Ion Ratio Lower Upper
83 100
85 64.8 43.9 81.5



#27
1,2-Dichloroethane
Concen: 176.588 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

Tgt Ion: 62 Resp: 1109752
Ion Ratio Lower Upper
62 100
98 8.3 7.3 10.9

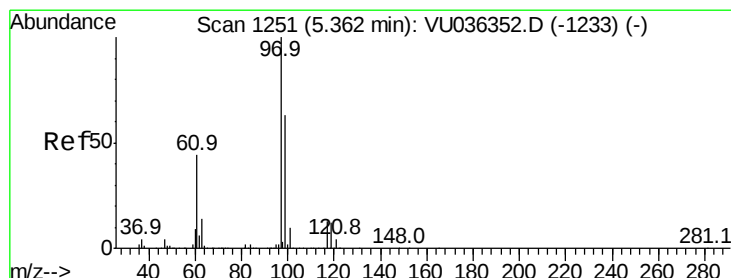
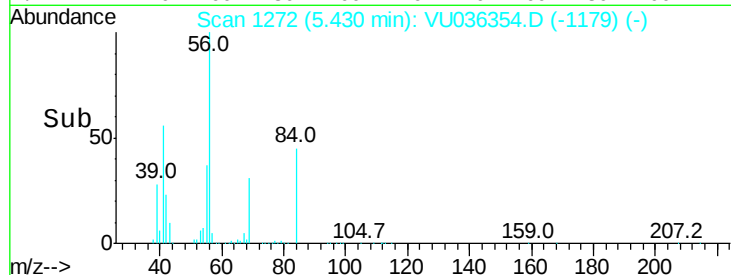
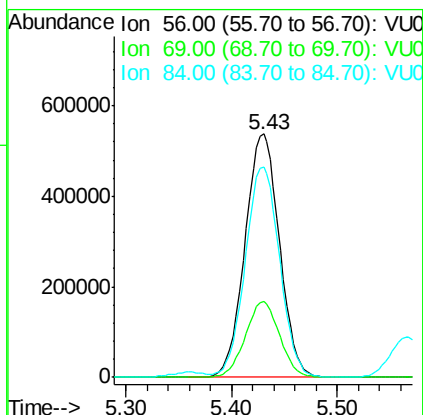
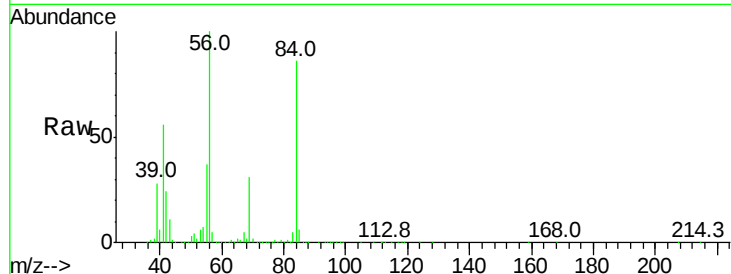




#29
Cyclohexane
Concen: 223.479 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

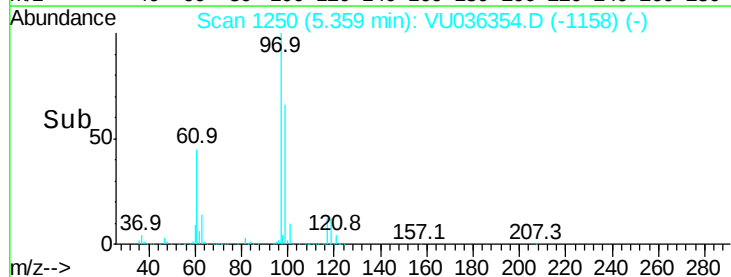
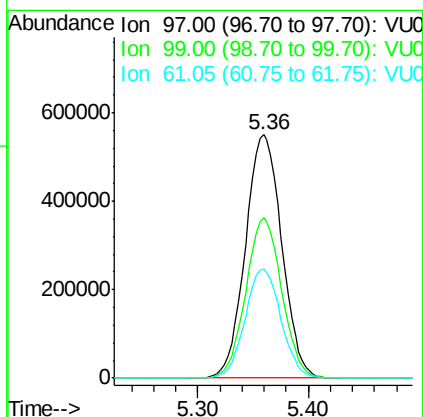
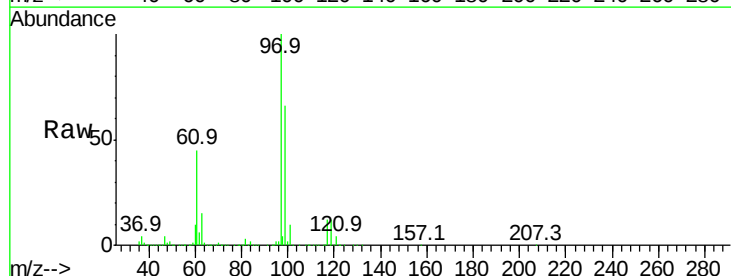
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

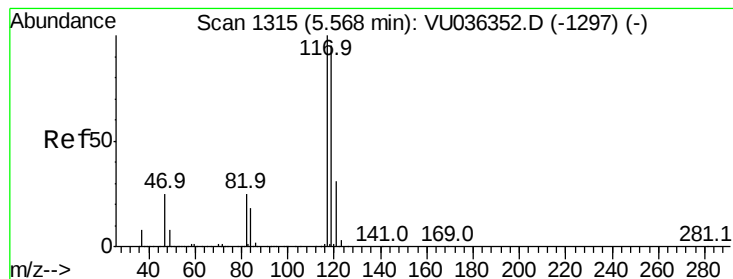
Tgt Ion: 56 Resp: 1218909
Ion Ratio Lower Upper
56 100
69 30.7 24.8 37.2
84 86.3 67.4 101.2



#30
1,1,1-Trichloroethane
Concen: 197.205 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

Tgt Ion: 97 Resp: 1251029
Ion Ratio Lower Upper
97 100
99 65.2 51.0 76.4
61 44.6 34.7 52.1





#31

Carbon tetrachloride

Concen: 198.371 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

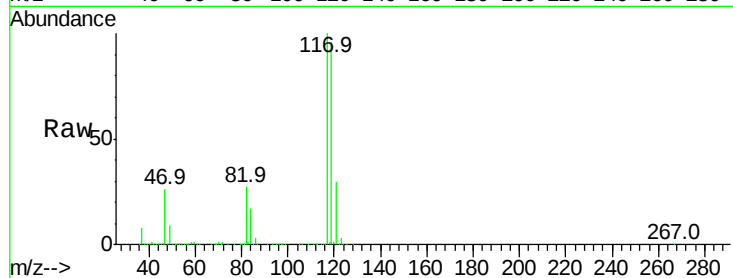
VSTD20036

Tgt Ion:117 Resp: 1123566

Ion Ratio Lower Upper

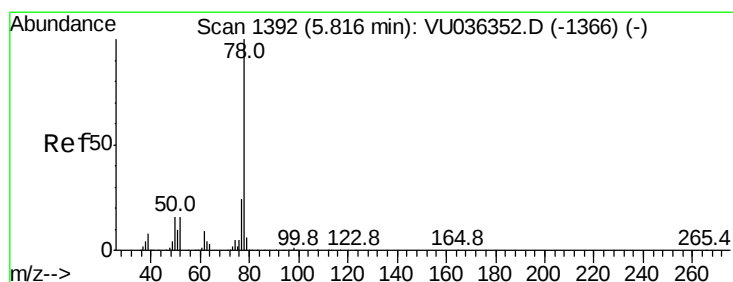
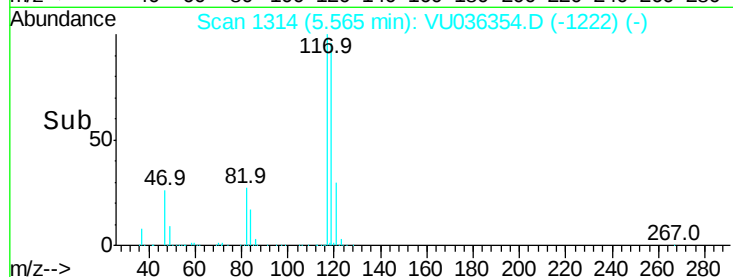
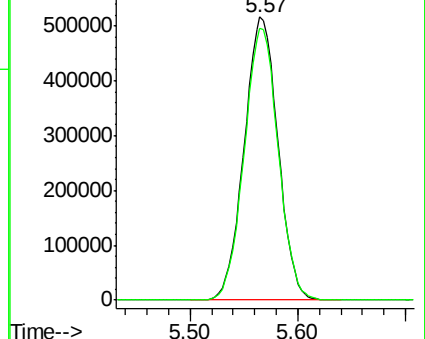
117 100

119 96.7 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 190.761 ug/L

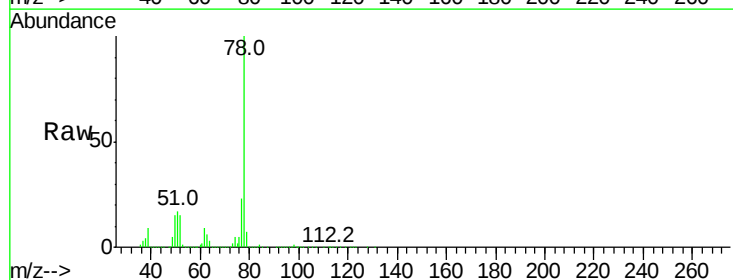
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

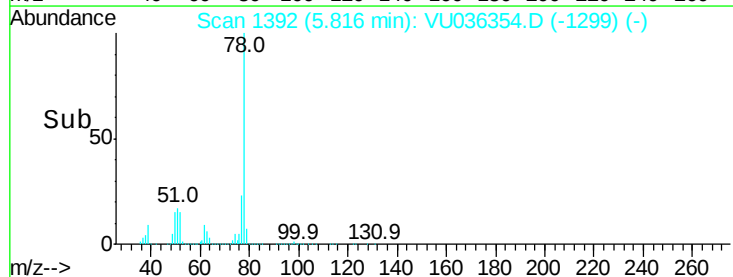
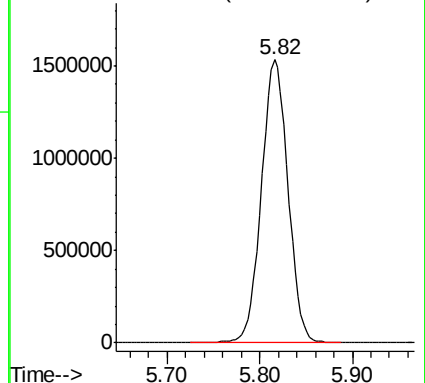
Lab File: VU036354.D

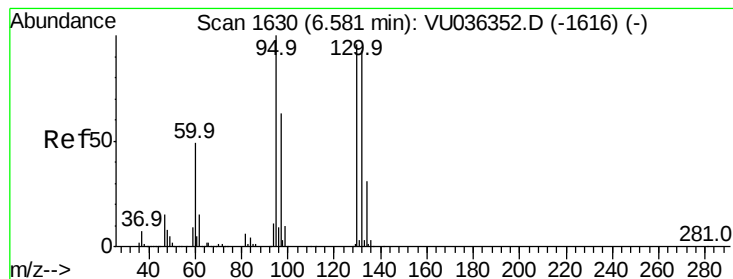
Acq: 27 Dec 2019 14:21

Tgt Ion: 78 Resp: 3057184



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 201.680 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 95 Resp: 823544

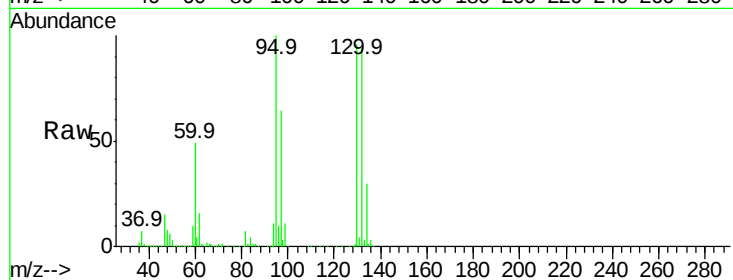
Ion Ratio Lower Upper

95 100

97 64.4 44.5 82.7

132 93.9 64.5 119.9

130 96.2 66.6 123.8

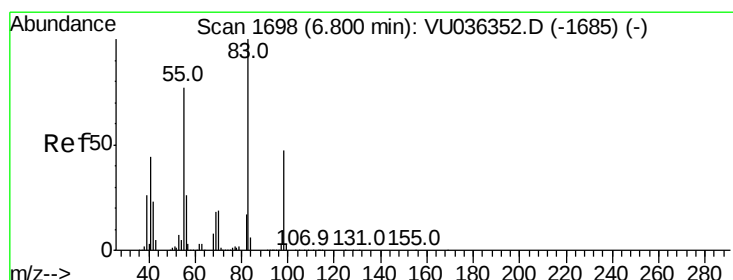
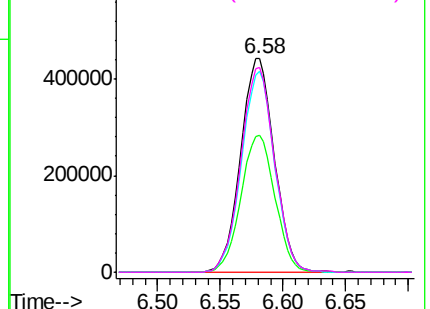
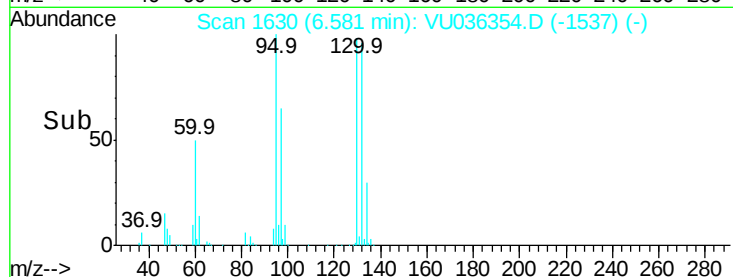


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 214.411 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

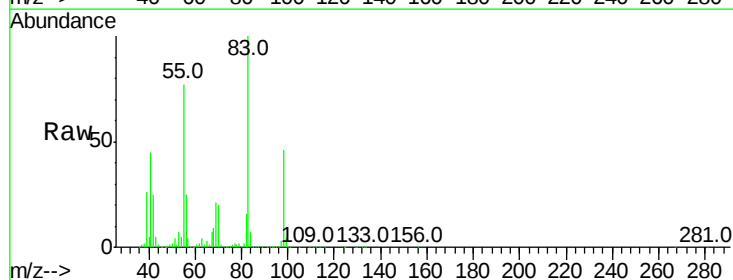
Tgt Ion: 83 Resp: 1268099

Ion Ratio Lower Upper

83 100

55 75.9 60.0 90.0

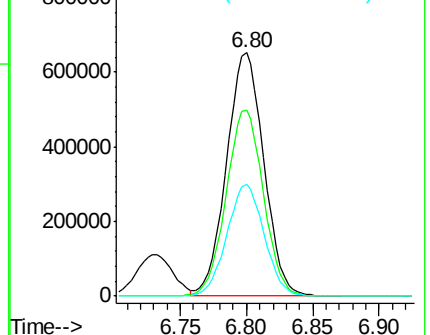
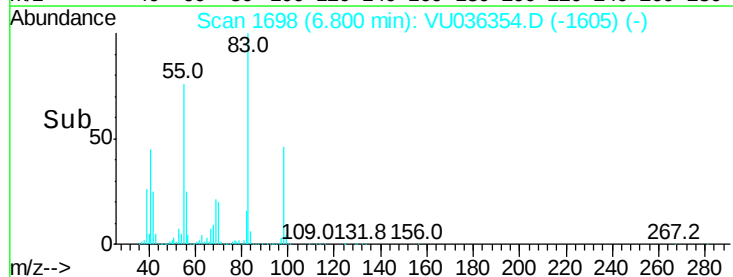
98 45.9 36.2 54.4

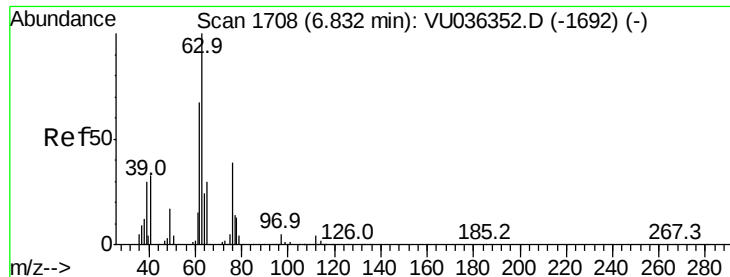


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 194.443 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

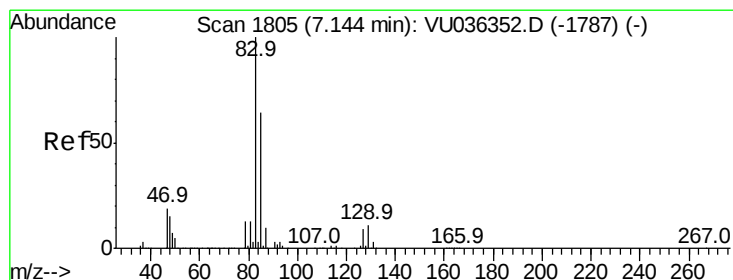
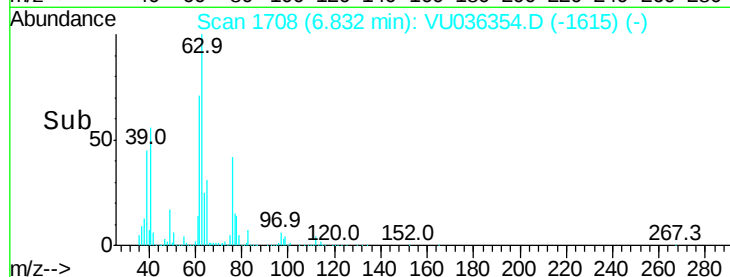
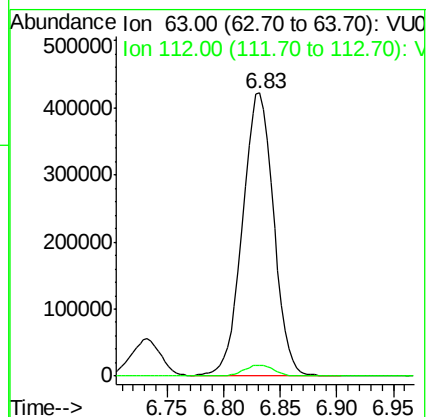
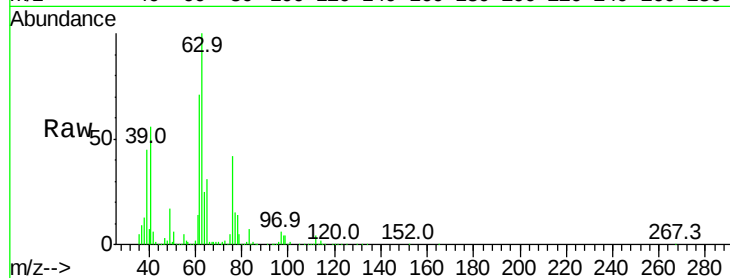
VSTD20036

Tgt Ion: 63 Resp: 811515

Ion Ratio Lower Upper

63 100

112 3.8 3.0 4.4



#38

Bromodichloromethane

Concen: 207.115 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

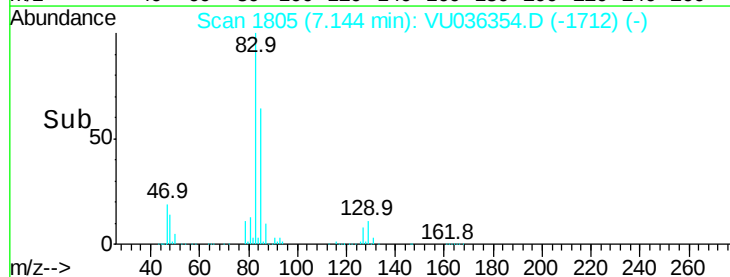
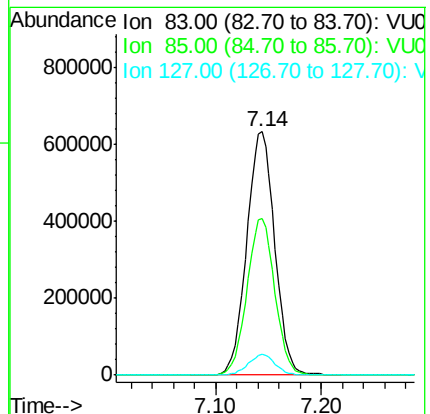
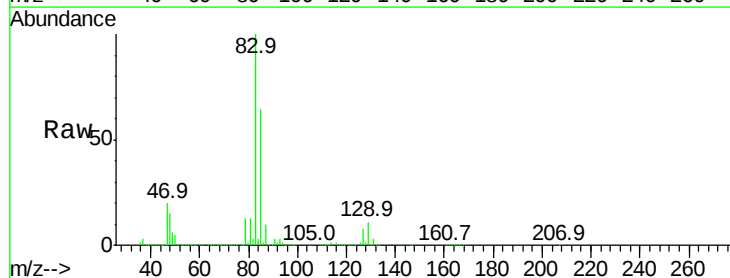
Tgt Ion: 83 Resp: 1165321

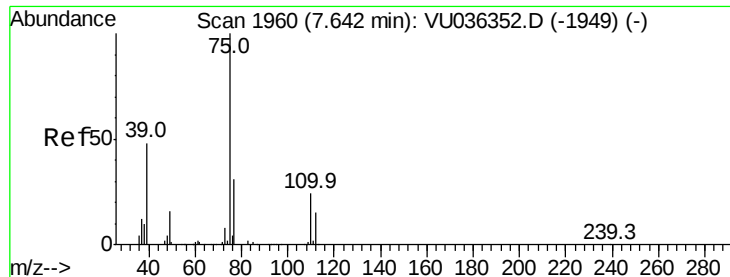
Ion Ratio Lower Upper

83 100

85 64.2 45.3 84.1

127 8.4 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 225.225 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

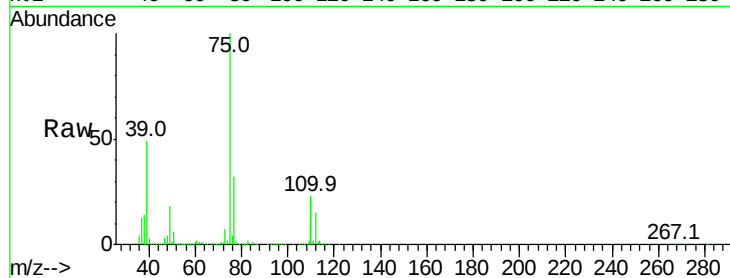
VSTD20036

Tgt Ion: 75 Resp: 1415335

Ion Ratio Lower Upper

75 100

77 31.9 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU036354.D (-1949) (-)

Ion 77.00 (76.70 to 77.70): VU036354.D (-1949) (-)

7.64

800000

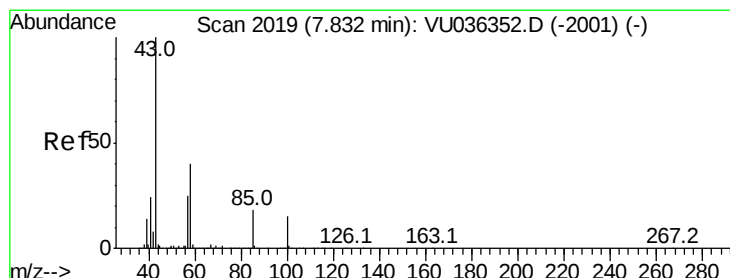
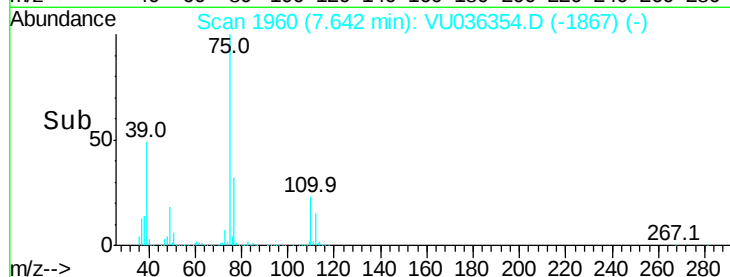
600000

400000

200000

0

Time--> 7.50 7.60 7.70



#40

4-Methyl-2-pentanone

Concen: 525.594 ug/L

RT: 7.84 min Scan# 2020

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

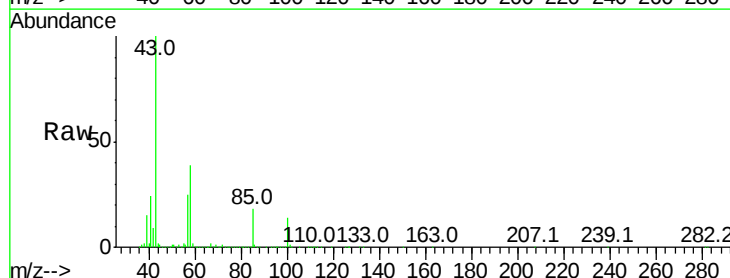
Tgt Ion: 43 Resp: 2833271

Ion Ratio Lower Upper

43 100

58 39.6 31.6 47.4

100 14.6 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VU036354.D (-1919) (-)

Ion 58.00 (57.70 to 58.70): VU036354.D (-1919) (-)

Ion 100.00 (99.70 to 100.70): VU036354.D (-1919) (-)

7.84

2000000

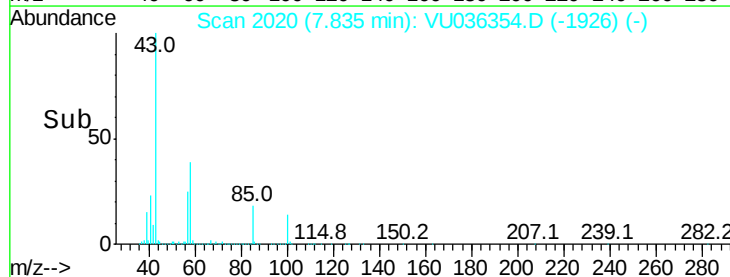
1500000

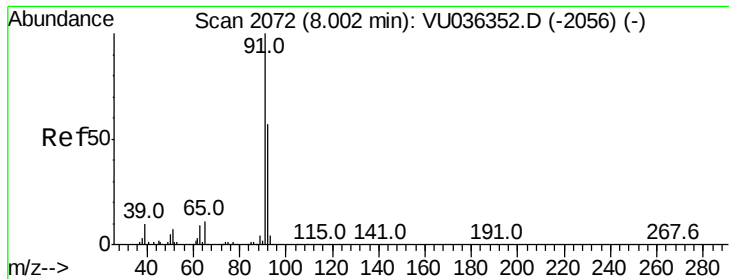
1000000

500000

0

Time--> 7.75 7.80 7.85 7.90 7.95





#42

Toluene

Concen: 200.453 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

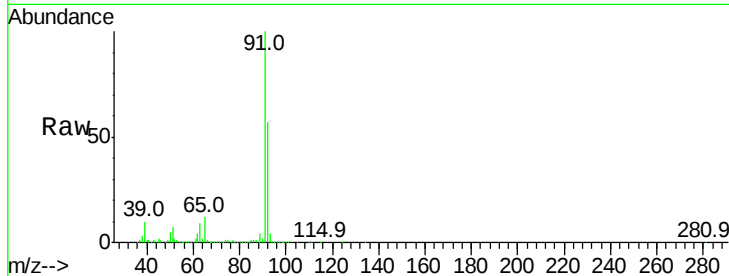
VSTD20036

Tgt Ion: 91 Resp: 3408929

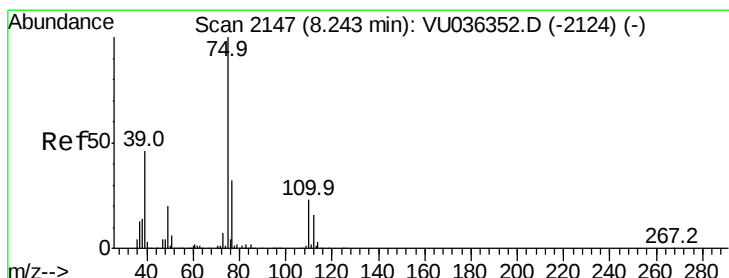
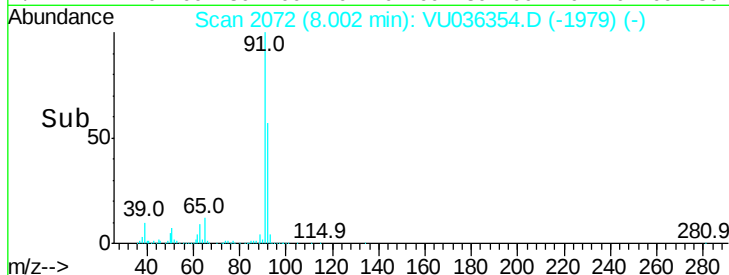
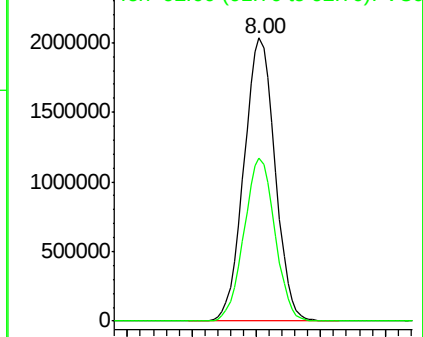
Ion Ratio Lower Upper

91 100

92 57.5 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU036352.D (-2056) (-)



#44

trans-1,3-Dichloropropene

Concen: 224.389 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036354.D

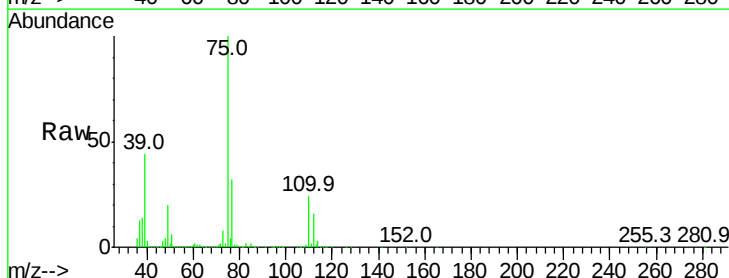
Acq: 27 Dec 2019 14:21

Tgt Ion: 75 Resp: 1316835

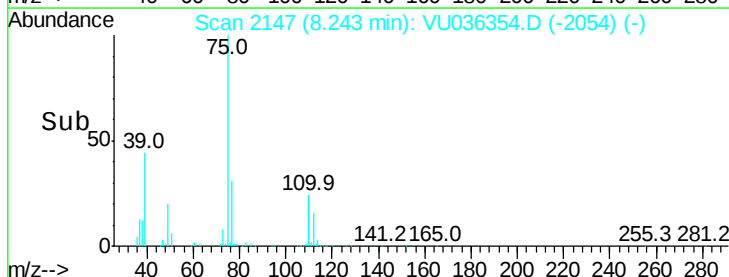
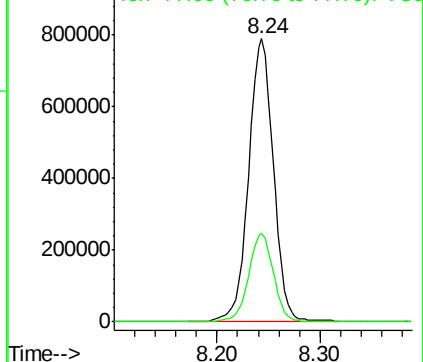
Ion Ratio Lower Upper

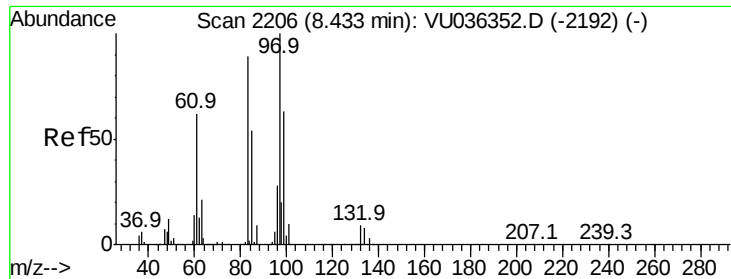
75 100

77 31.5 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU036352.D (-2124) (-)

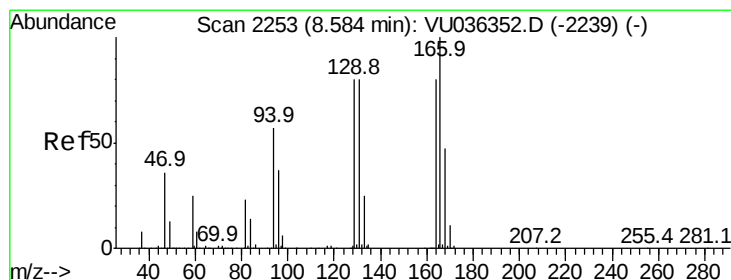
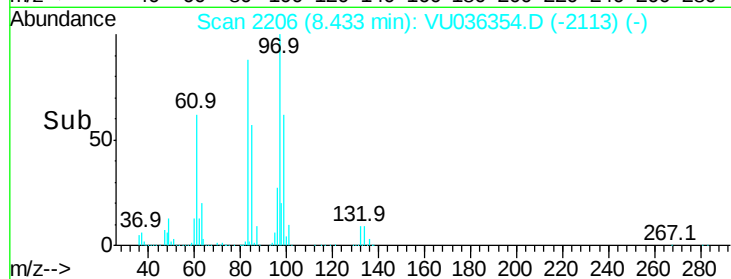
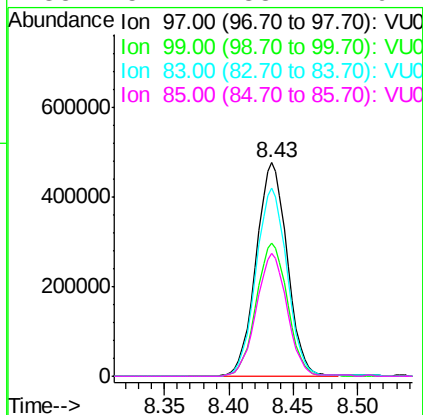
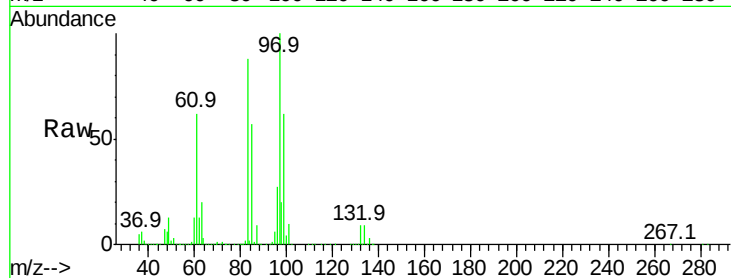




#45
 1,1,2-Trichloroethane
 Concen: 192.269 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036354.D
 Acq: 27 Dec 2019 14:21

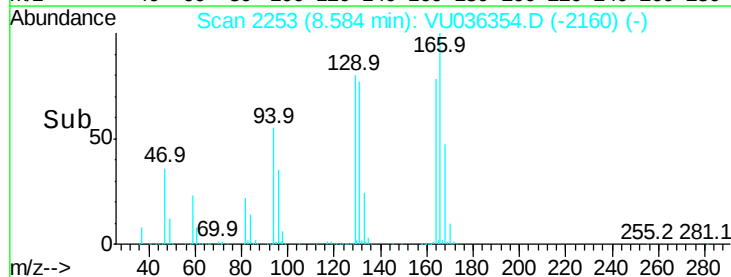
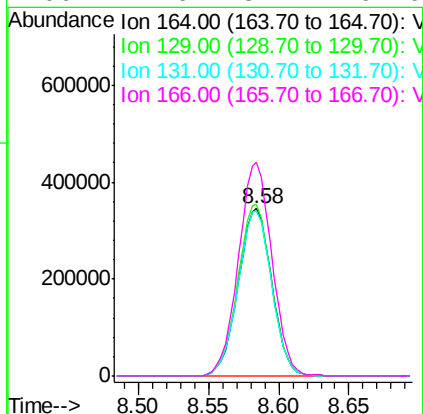
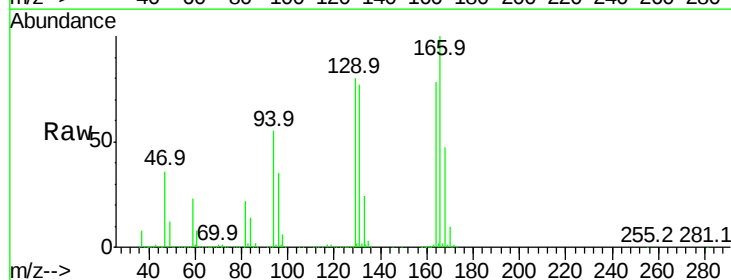
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

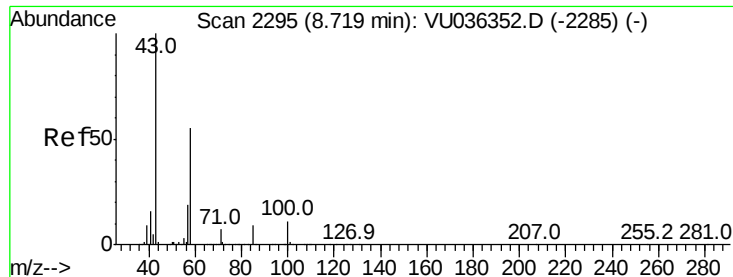
Tgt Ion:	97	Resp:	803054
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.2	82.2
83	87.9	62.5	116.1
85	57.4	38.1	70.7



#46
 Tetrachloroethene
 Concen: 163.900 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036354.D
 Acq: 27 Dec 2019 14:21

Tgt Ion:	164	Resp:	576611
Ion	Ratio	Lower	Upper
164	100		
129	102.2	70.0	130.0
131	98.6	70.1	130.1
166	127.6	87.2	161.9



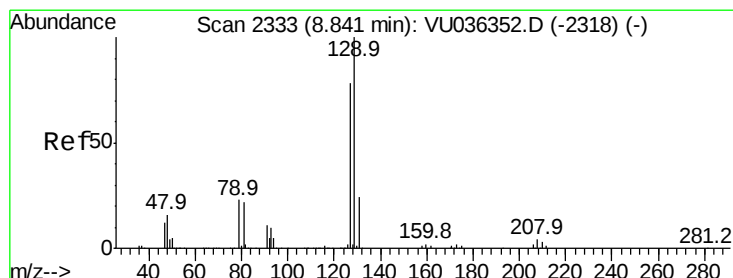
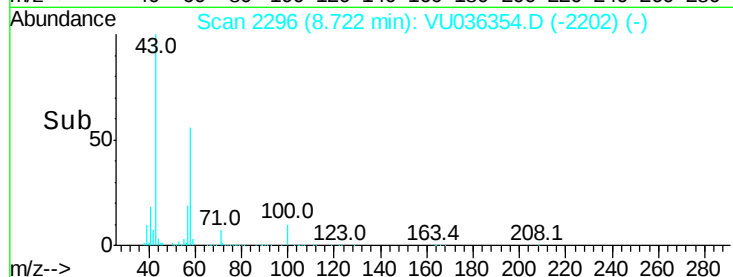
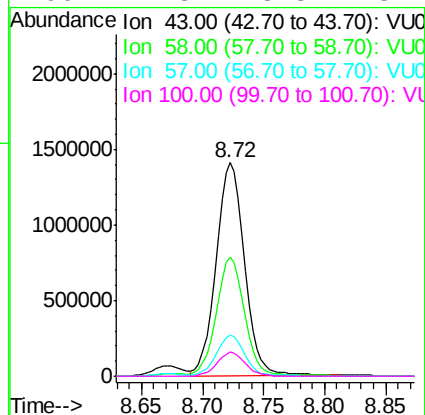
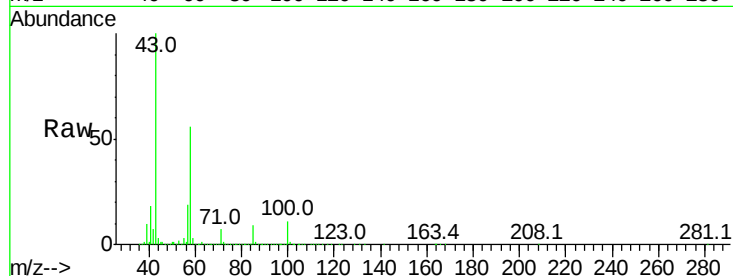


#48
2-Hexanone
Concen: 511.391 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Tgt Ion: 43 Resp: 2300067

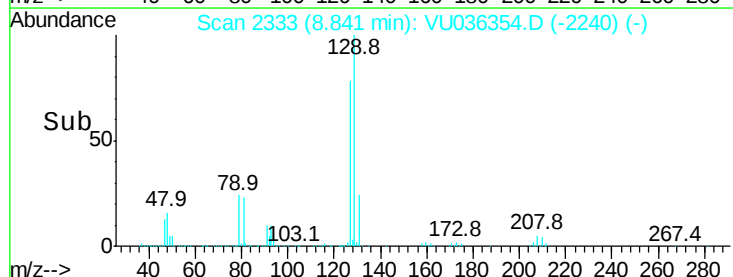
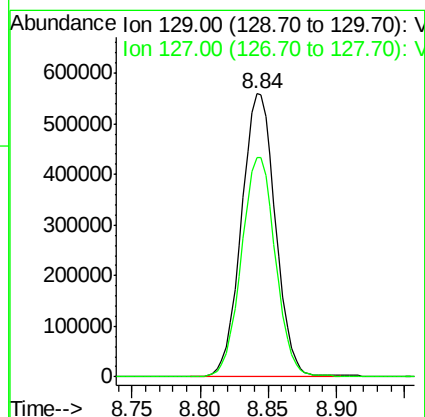
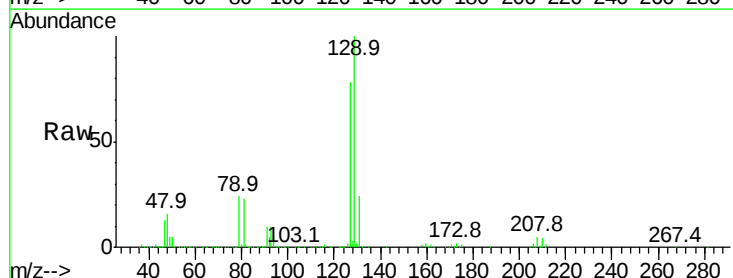
Ion	Ratio	Lower	Upper
43	100		
58	56.5	42.2	63.4
57	18.9	14.8	22.2
100	11.3	8.8	13.2

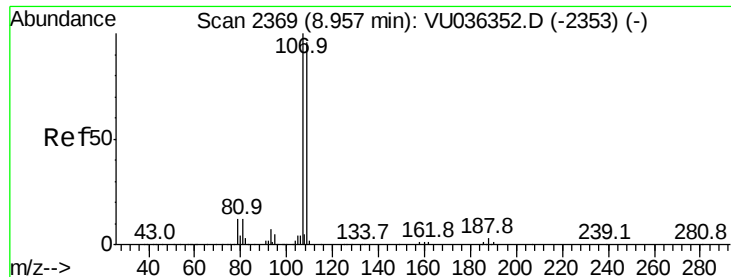


#49
Dibromochloromethane
Concen: 201.272 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

Tgt Ion: 129 Resp: 969192

Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.8	101.8

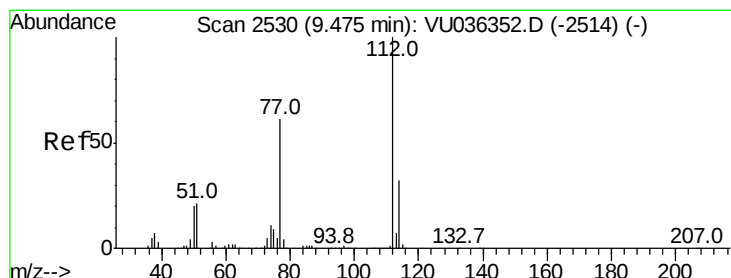
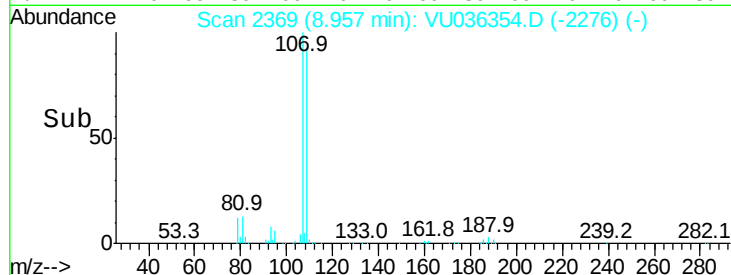
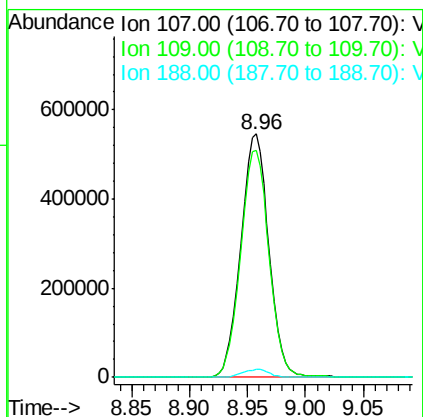
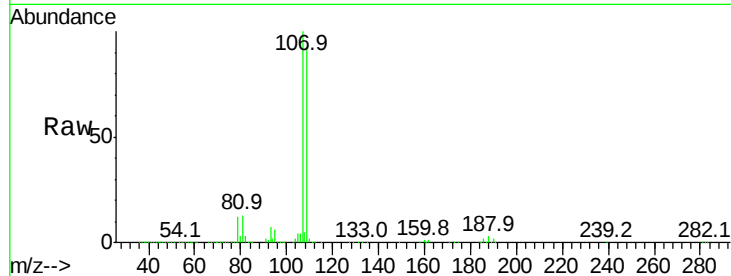




#50
1,2-Dibromoethane
Concen: 203.417 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

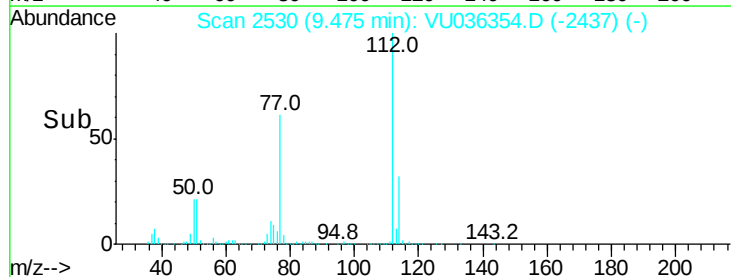
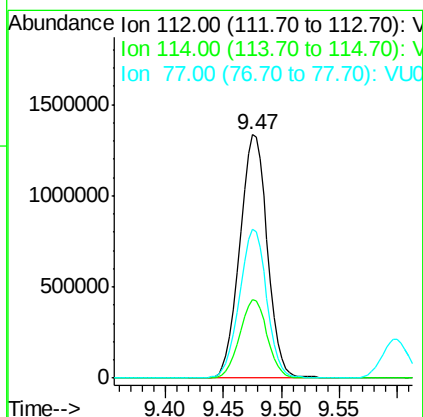
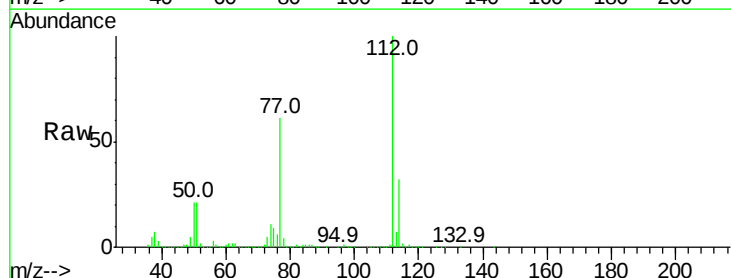
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

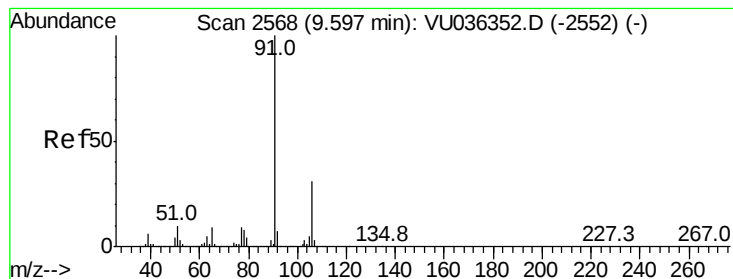
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.2	67.3	124.9
188	3.3	2.6	3.8



#51
Chlorobenzene
Concen: 192.814 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036354.D
Acq: 27 Dec 2019 14:21

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	61.0	48.7	73.1





#52

Ethylbenzene

Concen: 220.737 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

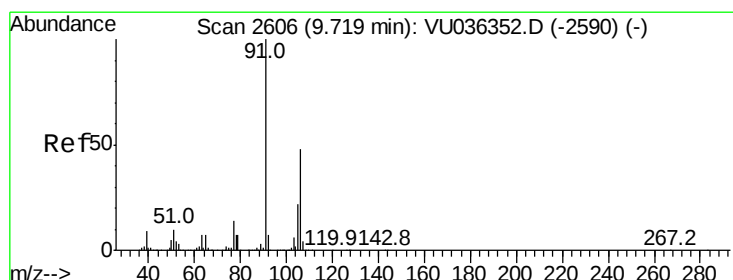
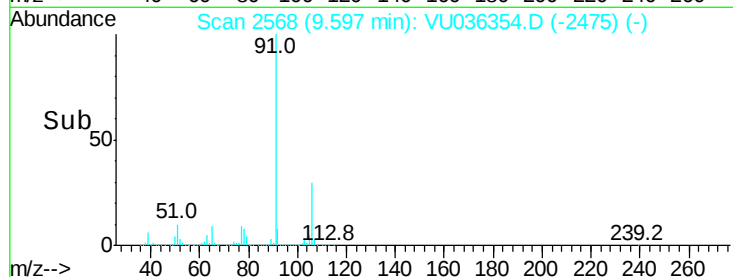
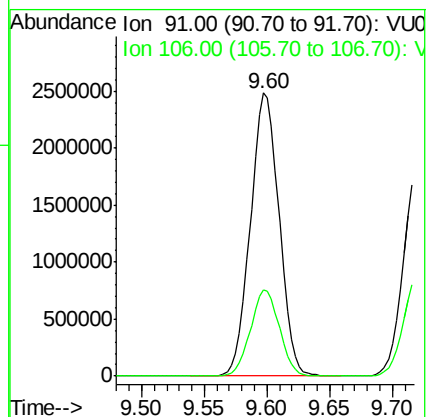
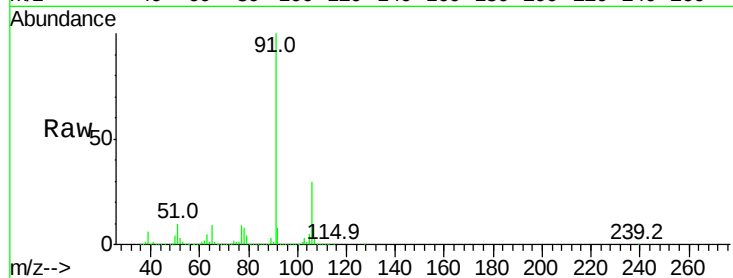
VSTD20036

Tgt Ion: 91 Resp: 3963238

Ion Ratio Lower Upper

91 100

106 30.4 22.0 40.8



#53

m,p-Xylene

Concen: 212.632 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036354.D

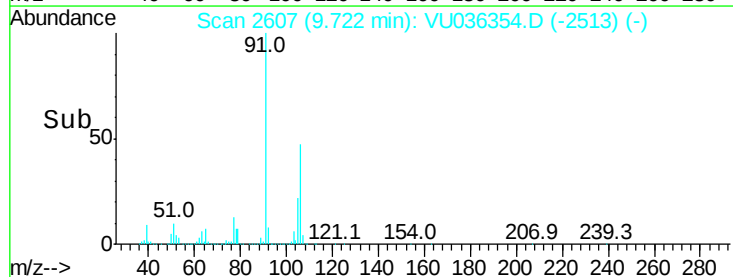
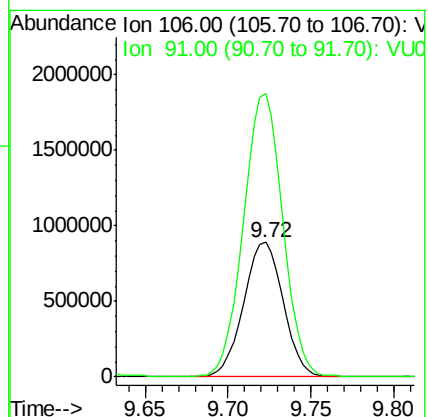
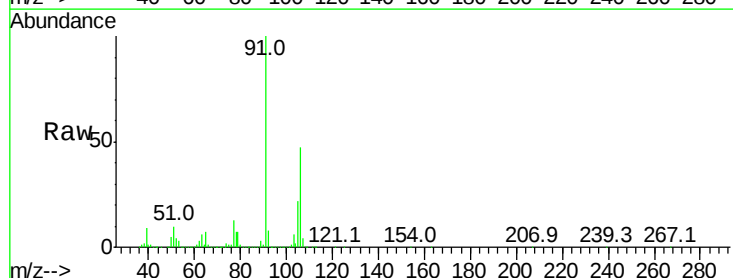
Acq: 27 Dec 2019 14:21

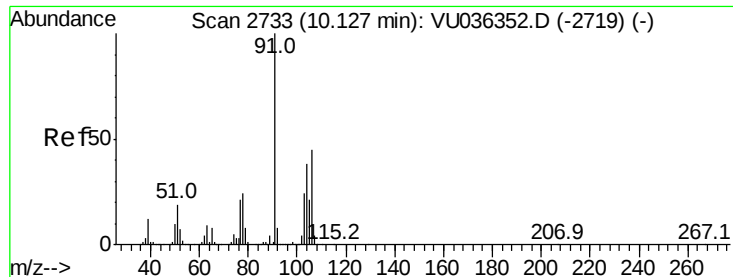
Tgt Ion: 106 Resp: 1474685

Ion Ratio Lower Upper

106 100

91 210.6 146.8 272.6





#54

o-xylene

Concen: 220.757 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

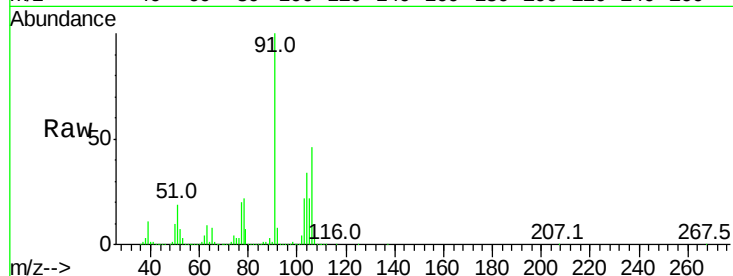
VSTD20036

Tgt Ion:106 Resp: 1478088

Ion Ratio Lower Upper

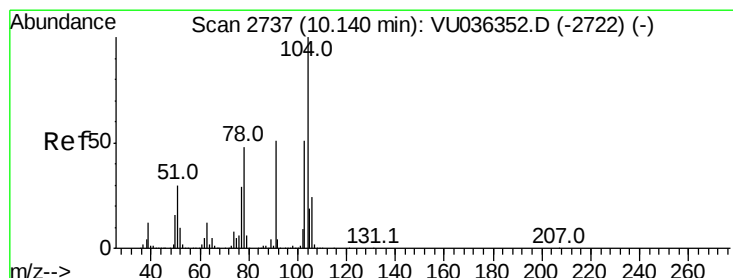
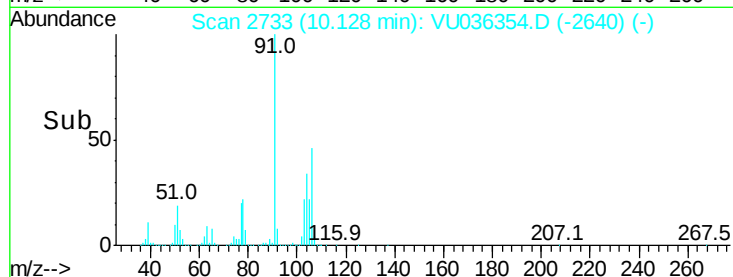
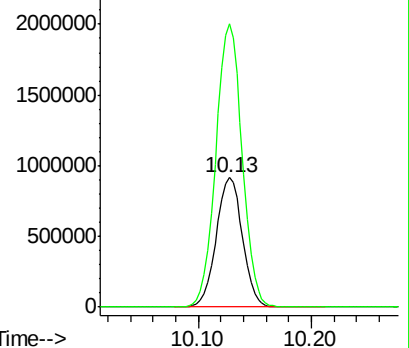
106 100

91 218.3 156.4 290.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 224.168 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036354.D

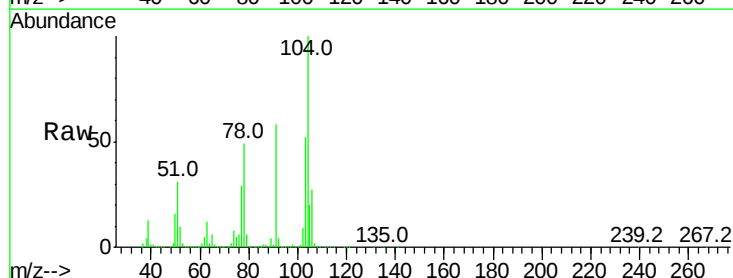
Acq: 27 Dec 2019 14:21

Tgt Ion:104 Resp: 2605477

Ion Ratio Lower Upper

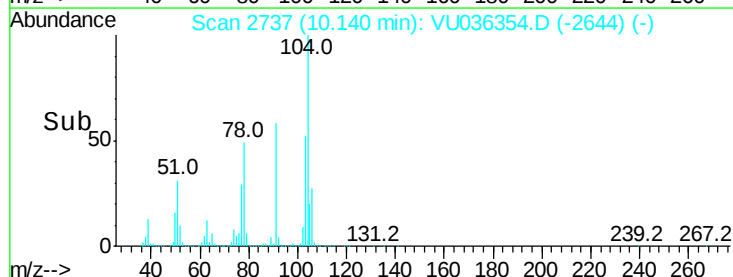
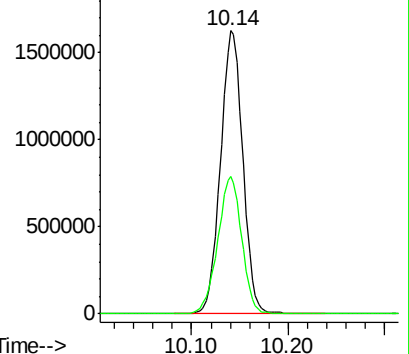
104 100

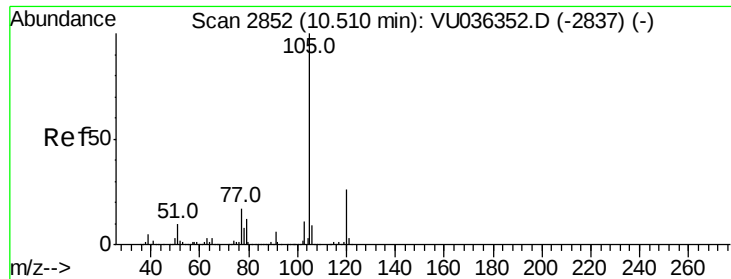
78 48.7 33.9 63.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 224.772 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

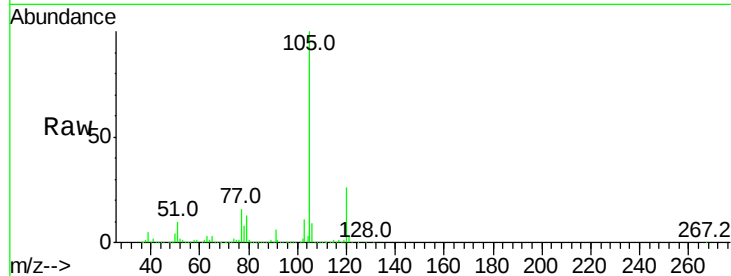
Tgt Ion:105 Resp: 3897587

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.4

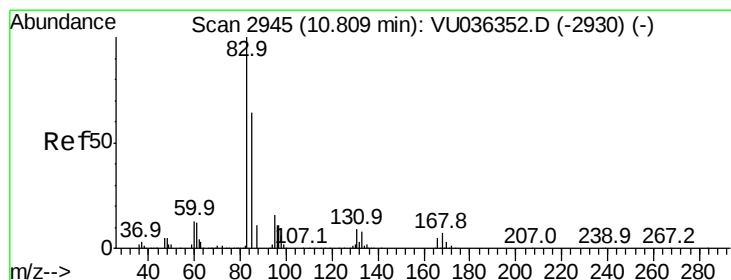
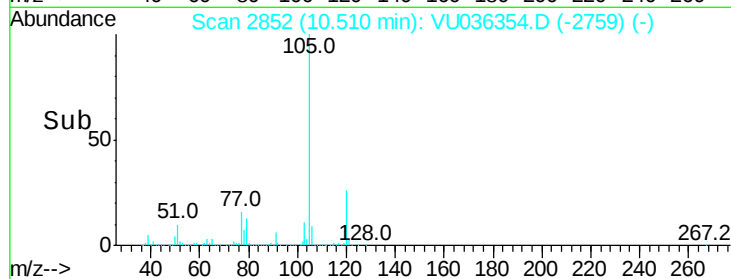
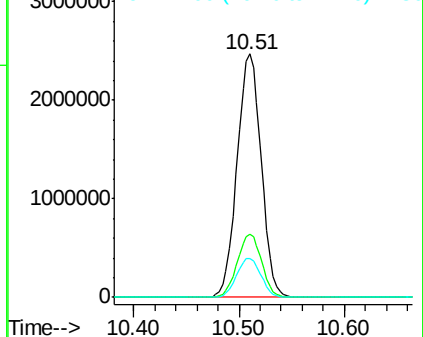
77 16.3 13.3 19.9



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: 202.906 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

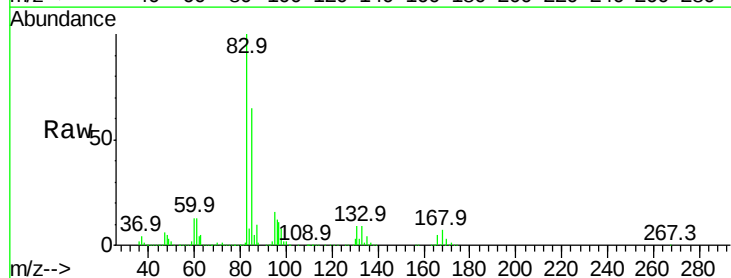
Tgt Ion: 83 Resp: 1478136

Ion Ratio Lower Upper

83 100

85 64.5 45.3 84.1

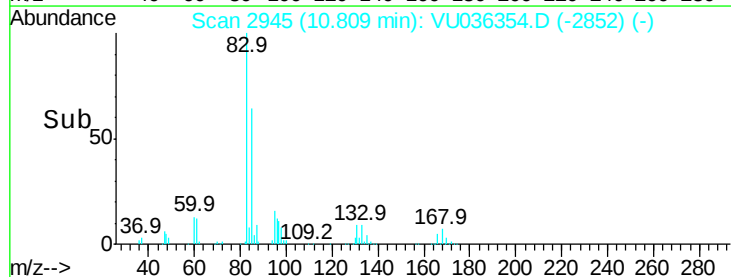
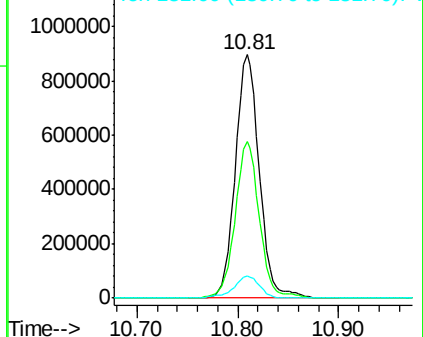
131 9.0 7.5 11.3

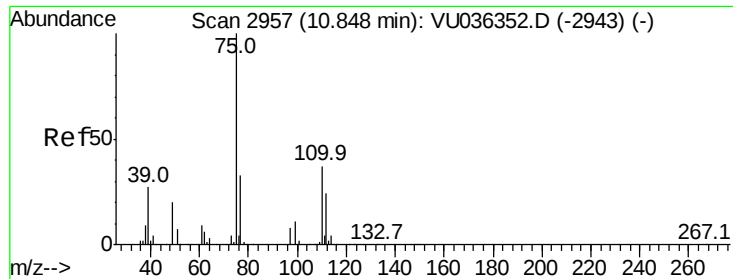


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 198.095 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

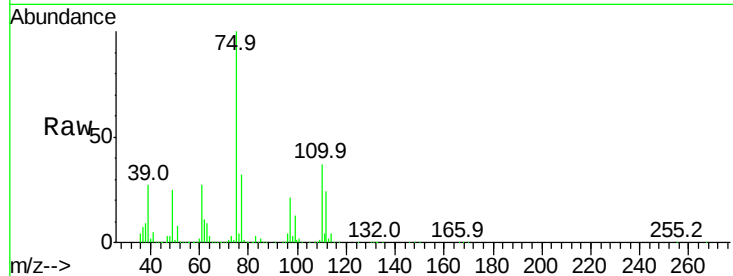
VSTD20036

Tgt Ion: 75 Resp: 1178304

Ion Ratio Lower Upper

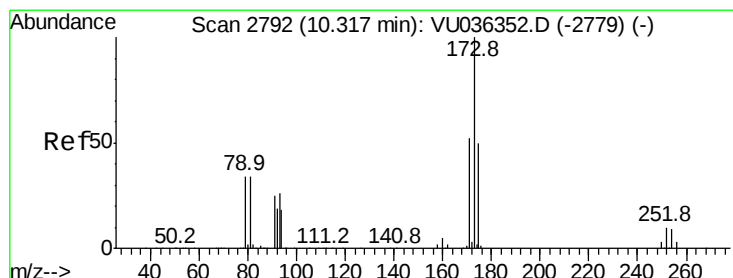
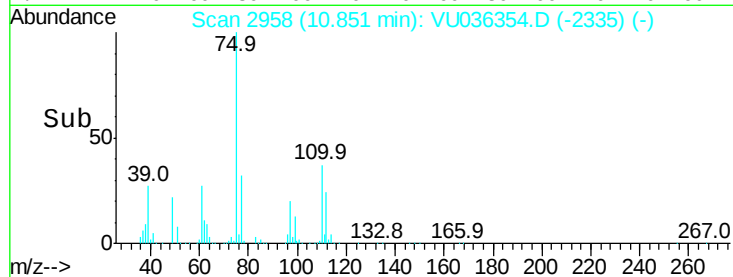
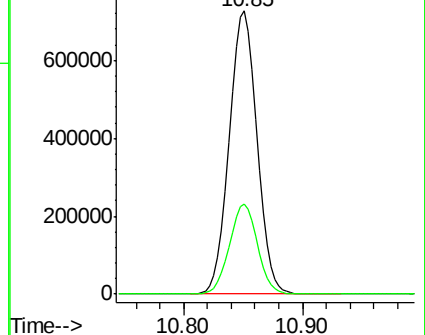
75 100

77 32.0 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VU036352.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU036352.D (-2943) (-)



#61

Bromoform

Concen: 205.175 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

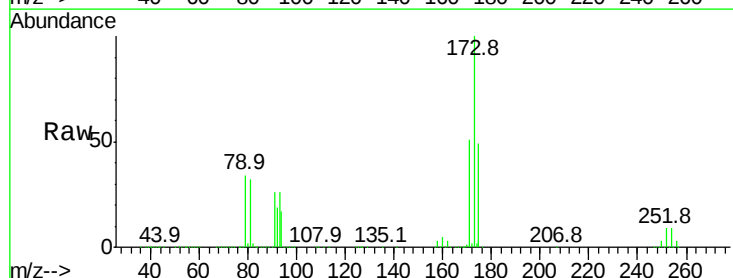
Tgt Ion: 173 Resp: 777309

Ion Ratio Lower Upper

173 100

175 49.1 38.7 58.1

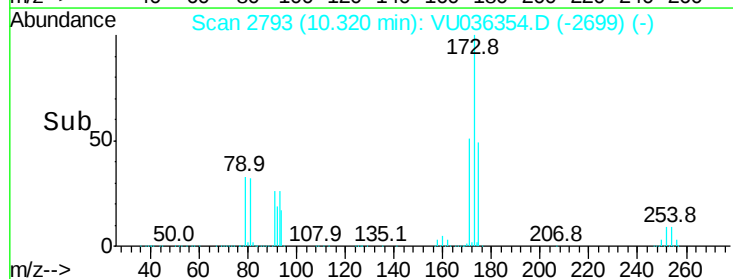
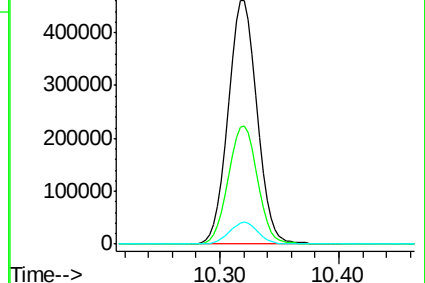
254 9.1 6.9 10.3

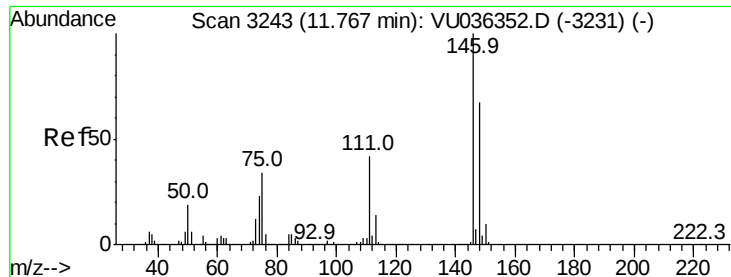


Abundance Ion 173.00 (172.70 to 173.70): VU036352.D (-2779) (-)

Ion 175.00 (174.70 to 175.70): VU036352.D (-2779) (-)

Ion 254.00 (253.70 to 254.70): VU036352.D (-2779) (-)





#62

1,3-Dichlorobenzene

Concen: 199.767 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

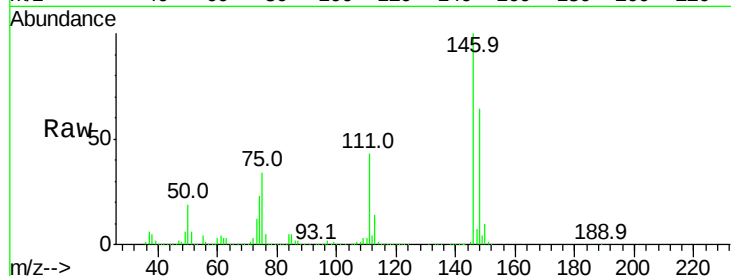
Tgt Ion:146 Resp: 1735145

Ion Ratio Lower Upper

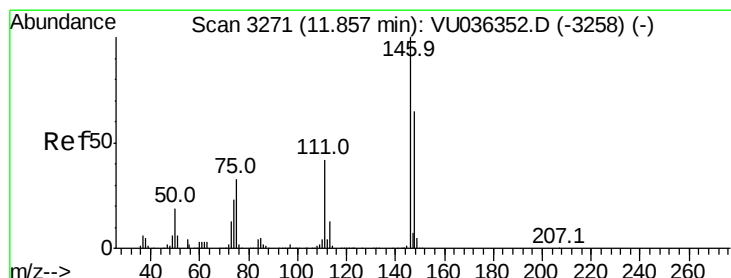
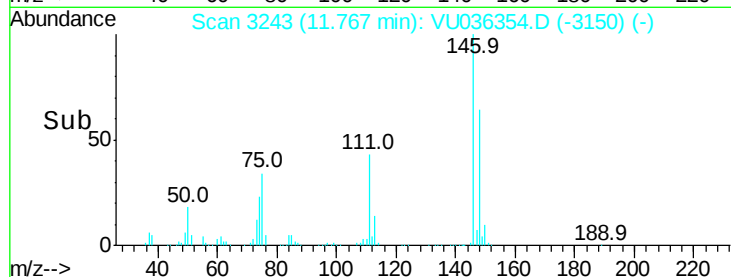
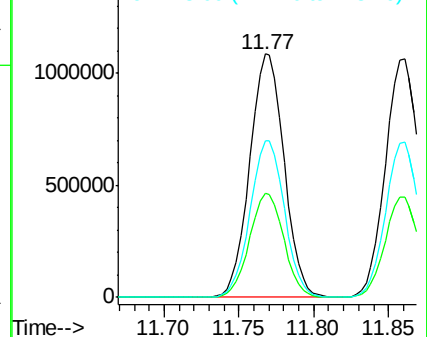
146 100

111 42.9 29.1 54.1

148 64.2 46.9 87.1



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: 191.339 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

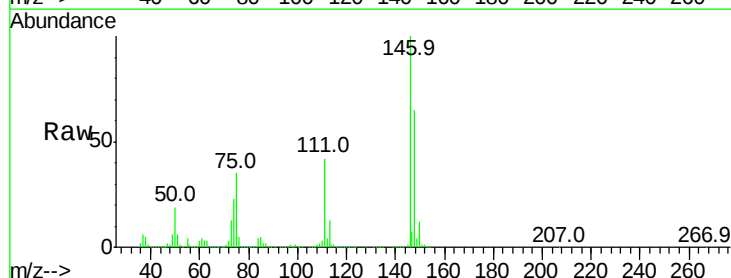
Tgt Ion:146 Resp: 1707506

Ion Ratio Lower Upper

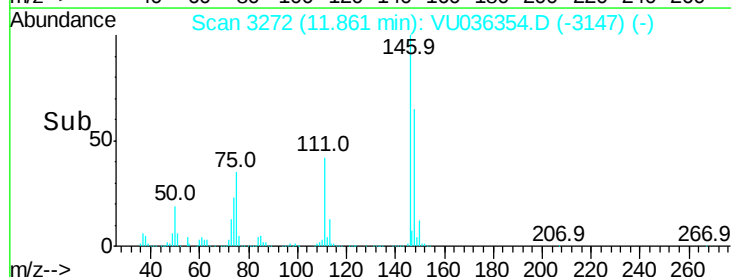
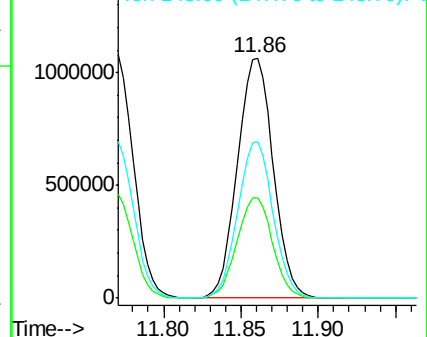
146 100

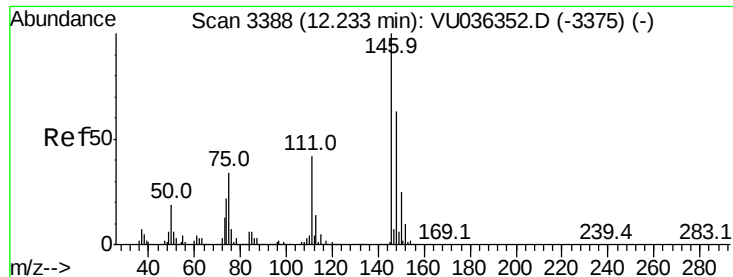
111 41.8 29.7 55.1

148 65.2 45.6 84.6



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: 190.643 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

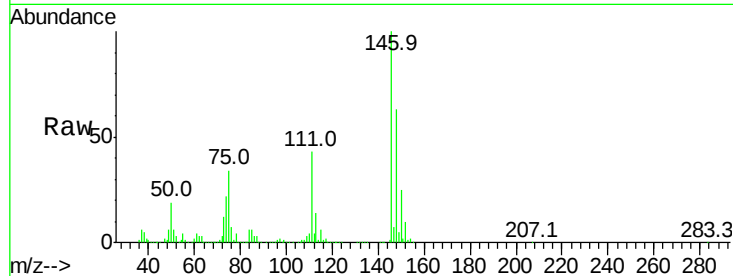
Tgt Ion:146 Resp: 1694833

Ion Ratio Lower Upper

146 100

111 43.3 33.4 50.2

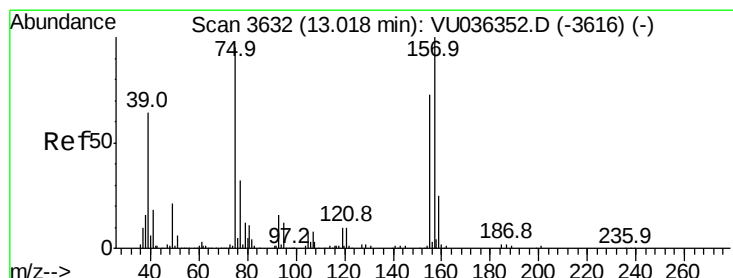
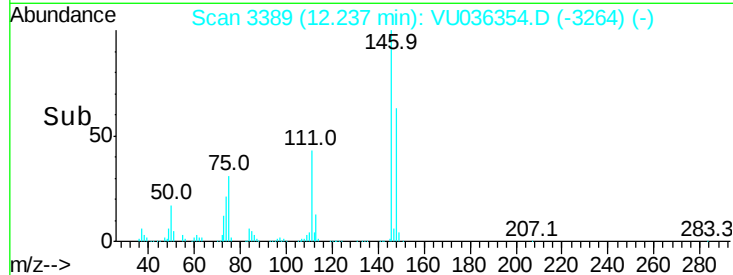
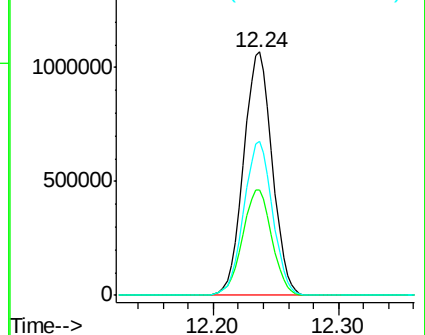
148 63.3 50.7 76.1



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



#66

1,2-Dibromo-3-chloropropane

Concen: 246.540 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

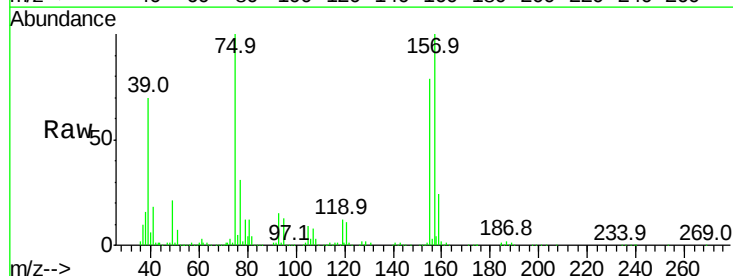
Tgt Ion: 75 Resp: 387012

Ion Ratio Lower Upper

75 100

155 79.0 61.8 92.6

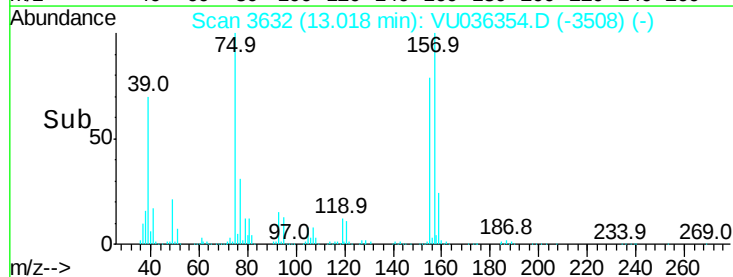
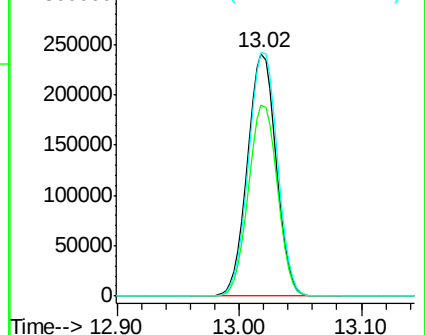
157 100.3 84.2 126.2

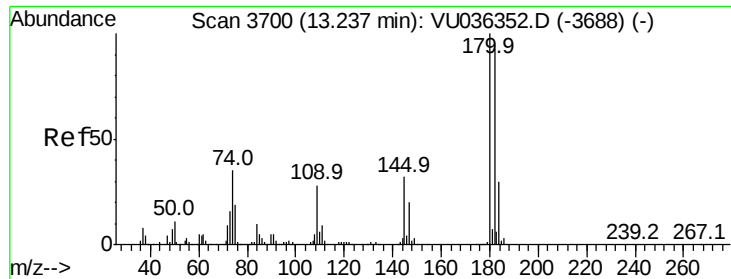


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

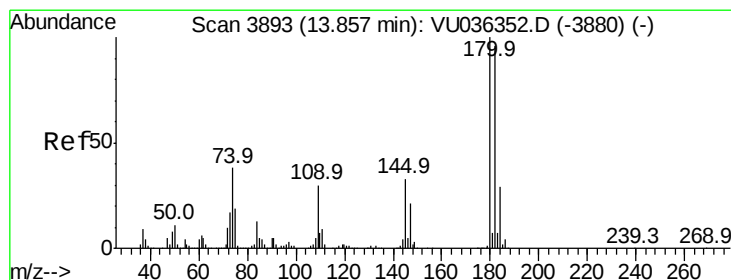
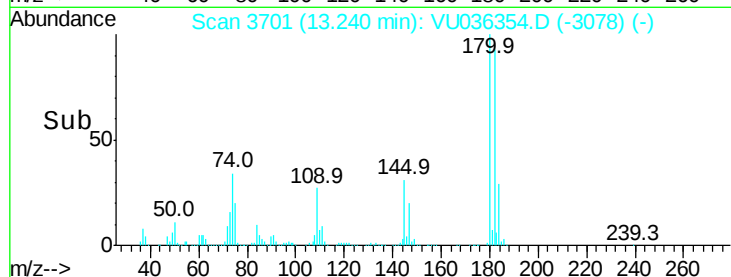
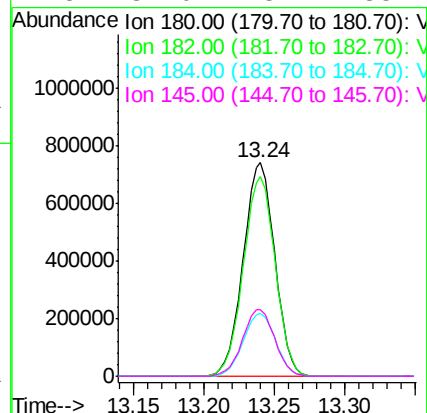
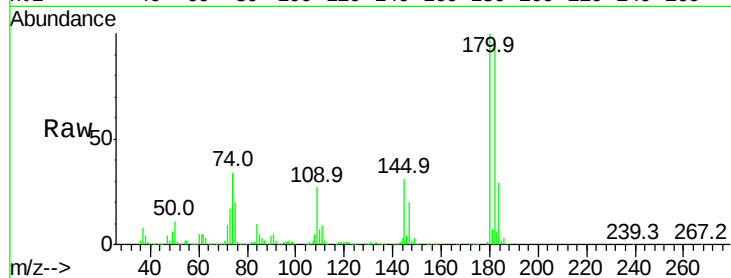




#67
 1,3,5-Trichlorobenzene
 Concen: 186.436 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036354.D
 Acq: 27 Dec 2019 14:21

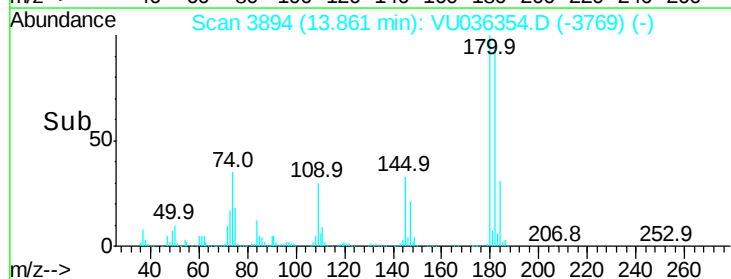
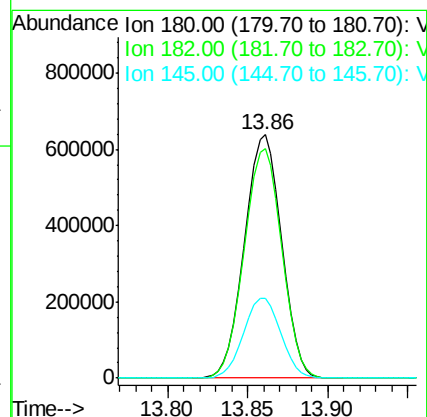
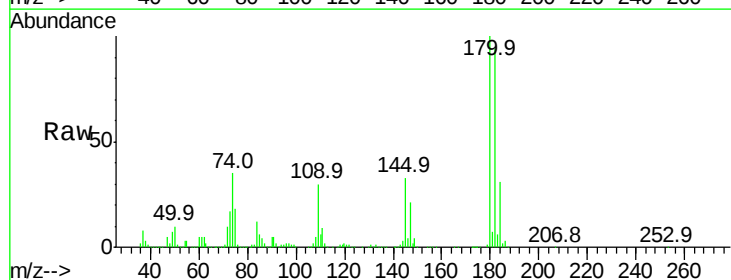
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

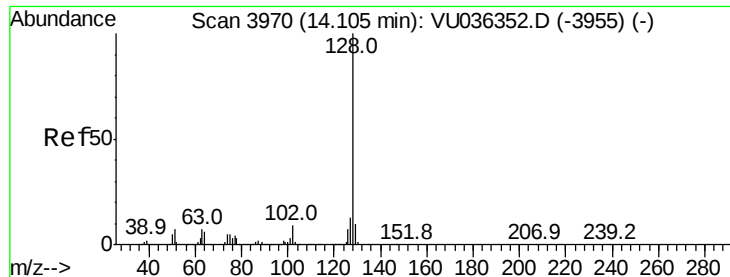
Tgt Ion:180 Resp: 1162267
 Ion Ratio Lower Upper
 180 100
 182 94.5 74.6 112.0
 184 30.2 23.9 35.9
 145 32.0 25.4 38.2



#68
 1,2,4-trichlorobenzene
 Concen: 221.081 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036354.D
 Acq: 27 Dec 2019 14:21

Tgt Ion:180 Resp: 1010921
 Ion Ratio Lower Upper
 180 100
 182 95.2 78.0 117.0
 145 32.9 26.0 39.0





#69

Naphthalene

Concen: 299.328 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

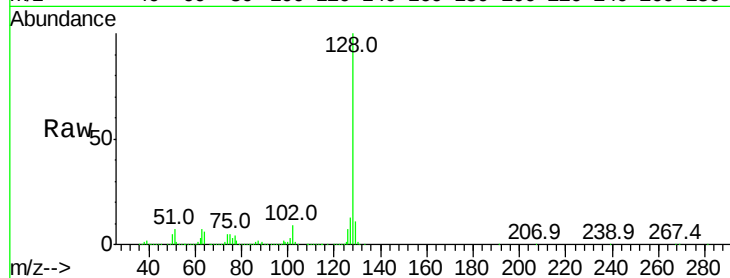
Tgt Ion:128 Resp: 3654215

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

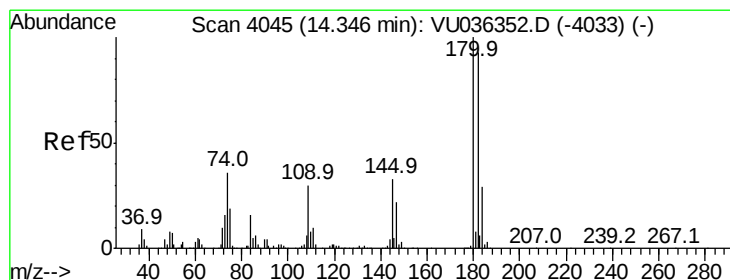
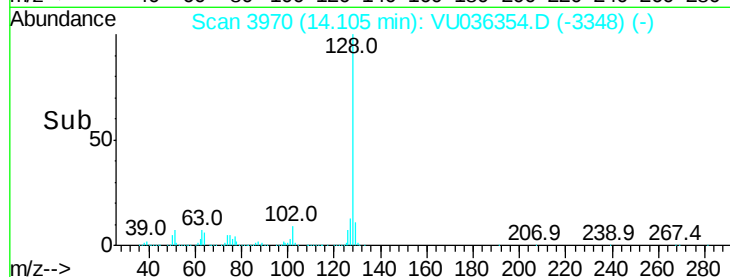
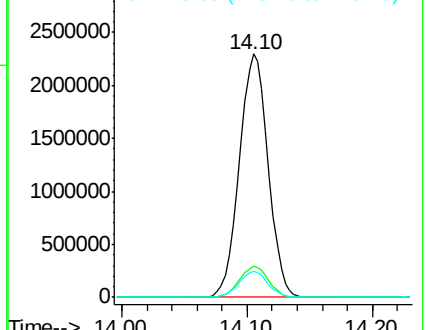
129 10.6 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 204.709 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036354.D

Acq: 27 Dec 2019 14:21

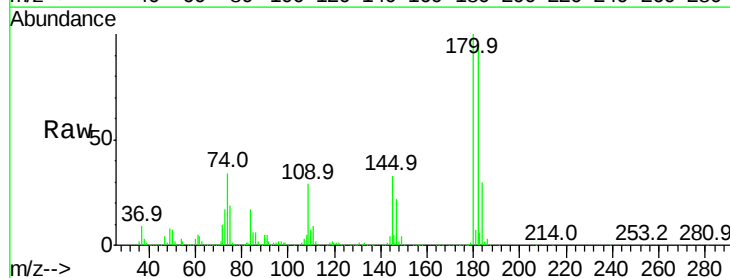
Tgt Ion:180 Resp: 1000848

Ion Ratio Lower Upper

180 100

182 93.7 75.4 113.2

145 33.8 27.1 40.7



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

