

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093019\
 Data File : VU034880.D
 Acq On : 30 Sep 2019 14:30
 Operator : JC/SP
 Sample : VSTD02002
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 30 17:02:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 30 16:58:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	169772	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	166042	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	85528	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	256520	19.28	ug/L	0.00
7) Chloroethane-d5	1.66	69	202940	18.69	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	424935	18.22	ug/L	0.00
20) 2-Butanone-d5	4.16	46	728183	216.54	ug/L	-0.02
24) Chloroform-d	4.62	84	442253	21.55	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	259060	21.54	ug/L	0.00
32) Benzene-d6	5.31	84	863844	19.72	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	283698	19.18	ug/L	0.00
41) Toluene-d8	7.54	98	837702	20.15	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	118474	20.04	ug/L	0.00
46) 2-Hexanone-d5	8.29	63	577576	216.47	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	238455	20.59	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	290943	19.75	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	190912	15.461	ug/L 98
3) Chloromethane	1.32	50	159640	14.138	ug/L 100
5) Vinyl chloride	1.40	62	179408	14.849	ug/L 98
6) Bromomethane	1.61	94	86830	14.489	ug/L 92
8) Chloroethane	1.68	64	99591	14.242	ug/L 95
9) Trichlorofluoromethane	1.87	101	239516	14.875	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	140795	15.402	ug/L 96
12) 1,1-Dichloroethene	2.27	96	112906	14.236	ug/L 87
13) Acetone	2.31	43	471123	182.843	ug/L 99
14) Carbon disulfide	2.46	76	184501	9.571	ug/L 97
15) Methyl Acetate	2.60	43	103875	17.130	ug/L 98
16) Methylene chloride	2.68	84	151461	14.152	ug/L 96
17) Methyl tert-butyl Ether	2.98	73	500226	17.433	ug/L 99
18) trans-1,2-Dichloroethene	2.96	96	114716	13.886	ug/L 99
19) 1,1-Dichloroethane	3.42	63	358879	17.342	ug/L 99
21) 2-Butanone	4.25	43	782012	210.936	ug/L 96
22) cis-1,2-Dichloroethene	4.20	96	186519	16.587	ug/L 95
23) Bromochloromethane	4.52	128	76340	18.374	ug/L 95
25) Chloroform	4.65	83	399103	16.974	ug/L 99
27) 1,2-Dichloroethane	5.38	62	258235	19.123	ug/L 99
29) 1,1,1-Trichloroethane	4.89	97	307776	17.943	ug/L 99
30) Cyclohexane	4.96	56	226839	13.255	ug/L 97
31) Carbon tetrachloride	5.11	117	243943	17.609	ug/L 98
33) Benzene	5.36	78	671087	15.601	ug/L 100
34) Trichloroethene	6.16	95	175175	16.258	ug/L 98
35) Methylcyclohexane	6.39	83	220794	13.112	ug/L 99
37) 1,2-Dichloropropane	6.41	63	223919	16.592	ug/L 100
38) Bromodichloromethane	6.73	83	293529	17.970	ug/L 99
39) cis-1,3-Dichloropropene	7.25	75	316696	16.937	ug/L 100
40) 4-Methyl-2-pentanone	7.44	43	2065736	198.577	ug/L 99

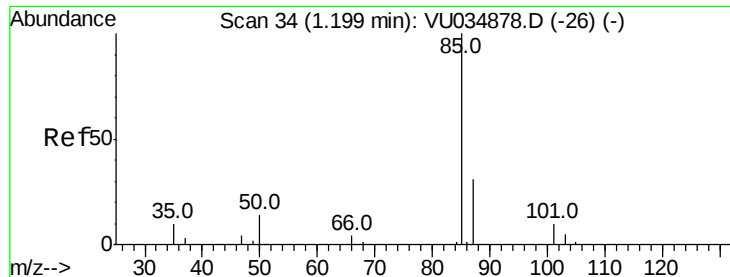
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093019\
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Quant Time: Sep 30 17:02:06 2019
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 QLast Update : Mon Sep 30 16:58:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	741121	15.902	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	276927	18.108	ug/L	99
45) 1,1,2-Trichloroethane	8.04	97	160979	18.377	ug/L	97
47) Tetrachloroethene	8.20	164	114051	17.137	ug/L	96
48) 2-Hexanone	8.34	43	1453813	207.038	ug/L	98
49) Dibromochloromethane	8.46	129	198350	19.370	ug/L	100
50) 1,2-Dibromoethane	8.57	107	134968	17.398	ug/L	99
51) Chlorobenzene	9.10	112	498107	16.969	ug/L	99
52) Ethylbenzene	9.23	91	897323	16.642	ug/L	98
53) m,p-Xylene	9.35	106	315600	16.531	ug/L	99
54) o-Xylene	9.76	106	331777	17.221	ug/L	97
55) Styrene	9.77	104	599628	18.638	ug/L	100
56) Isopropylbenzene	10.14	105	955707	17.751	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	245216	19.201	ug/L	100
59) 1,2,3-Trichloropropane	10.47	75	168944	18.933	ug/L	98
61) Bromoform	9.94	173	111476	19.871	ug/L	99
62) 1,3-Dichlorobenzene	11.39	146	440401	17.828	ug/L	99
63) 1,4-Dichlorobenzene	11.48	146	442292	18.009	ug/L	100
65) 1,2-Dichlorobenzene	11.85	146	442154	18.091	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.63	75	39198	18.319	ug/L	96
67) 1,3,5-Trichlorobenzene	12.86	180	343494	20.793	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	289590	22.124	ug/L	98
69) Naphthalene	13.72	128	550112	17.965	ug/L	99
70) 1,2,3-Trichlorobenzene	13.96	180	274478	22.165	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 15.461 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

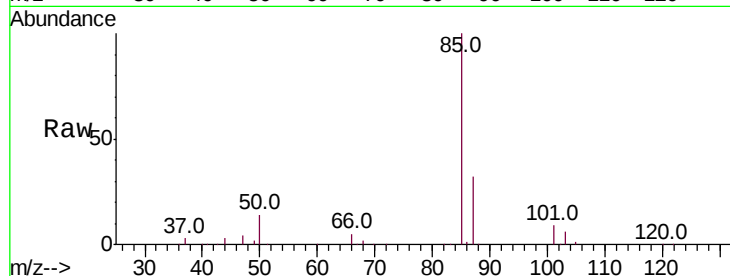
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 190912

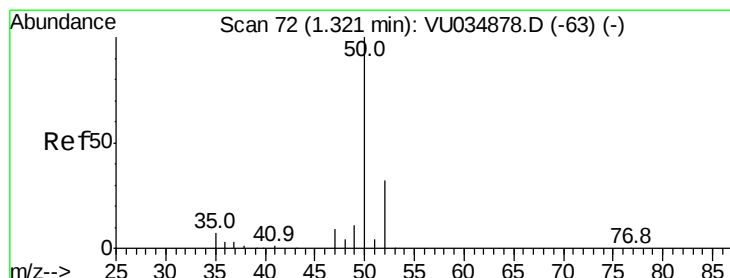
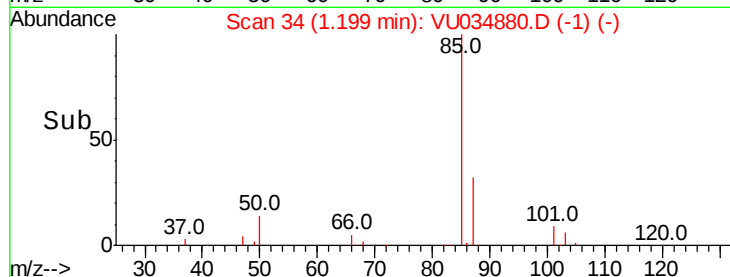
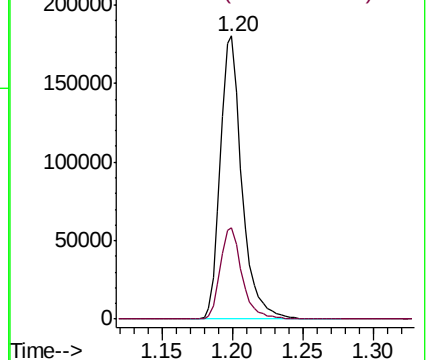
Ion Ratio Lower Upper

85 100

87 32.6 25.0 37.6



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 14.138 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034880.D

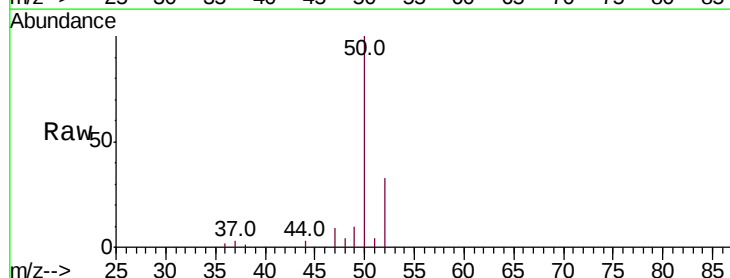
Acq: 30 Sep 2019 14:30

Tgt Ion: 50 Resp: 159640

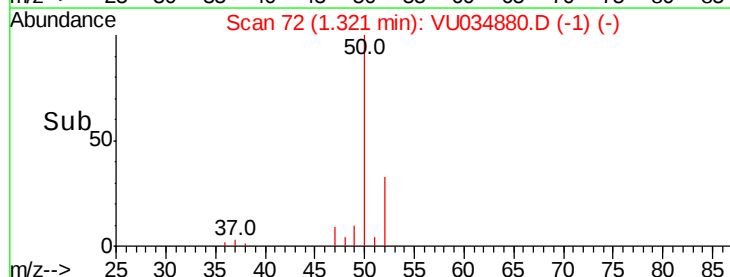
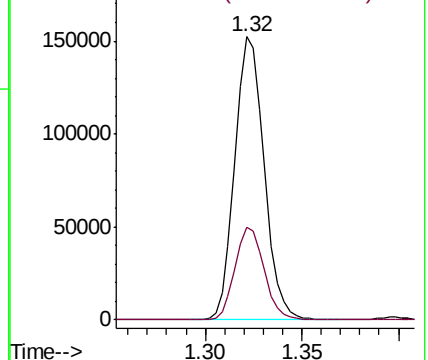
Ion Ratio Lower Upper

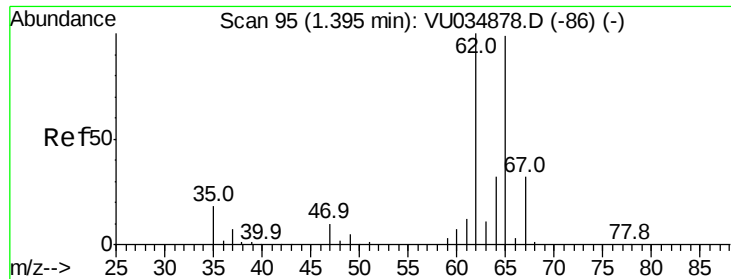
50 100

52 32.5 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VU0
Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 14.849 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

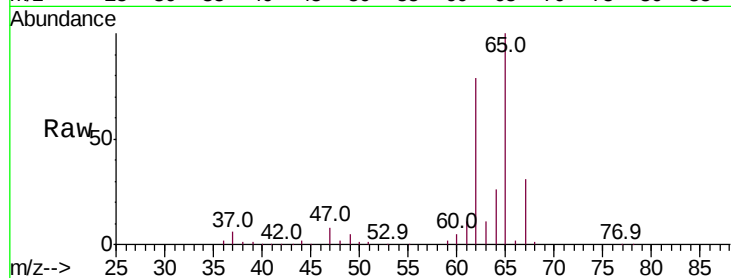
ClientSampleId :

Tot Ion: 62 Resp: 179408

Ion Ratio Lower Upper

62 100

64 33.3 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU034880.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU034880.D (-86) (-)

1.40

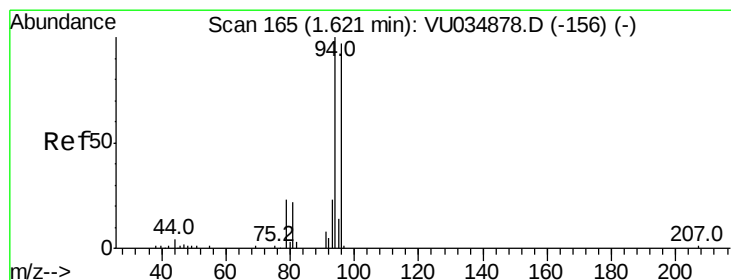
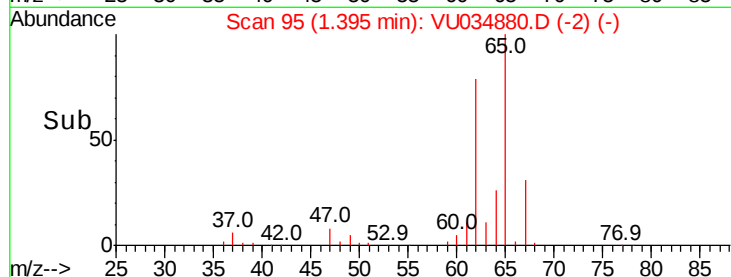
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 14.489 ug/L

RT: 1.61 min Scan# 161

Delta R.T. -0.01 min

Lab File: VU034880.D

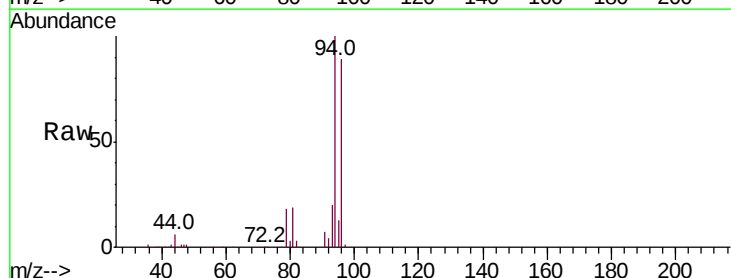
Acq: 30 Sep 2019 14:30

Tgt Ion: 94 Resp: 86830

Ion Ratio Lower Upper

94 100

96 89.2 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VU034880.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU034880.D (-156) (-)

1.61

80000

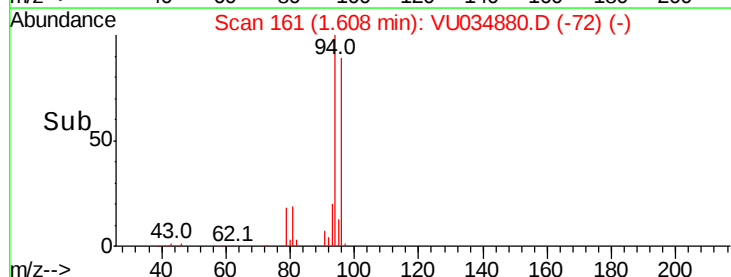
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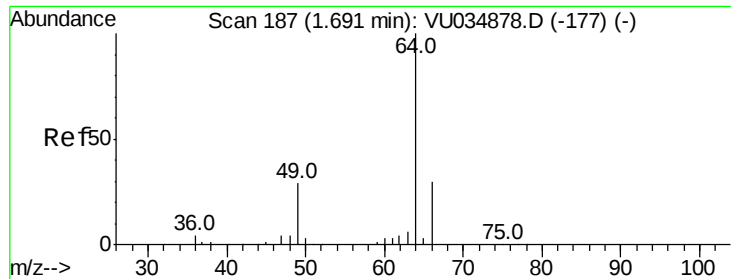
40000

20000

0

Time-->





#8

Chloroethane

Concen: 14.242 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

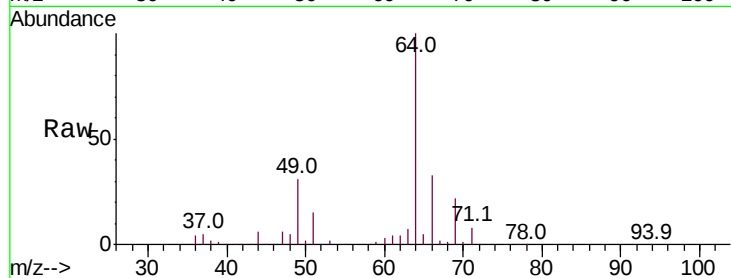
ClientSampled :

Tot Ion: 64 Resp: 99591

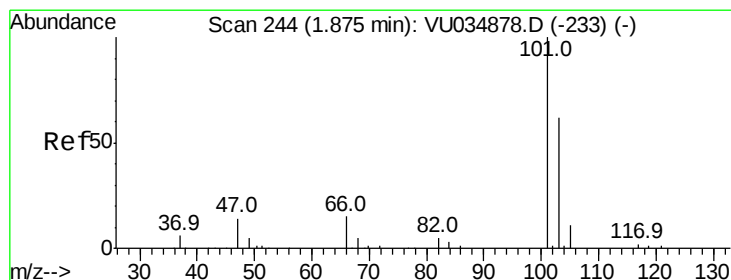
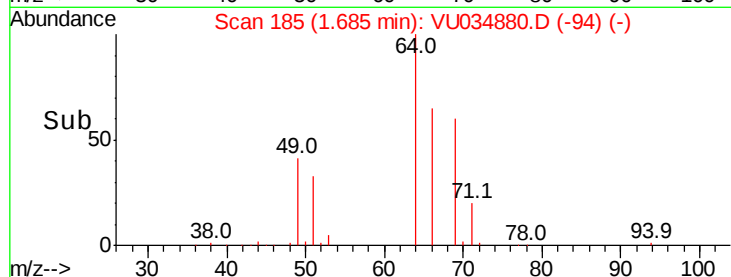
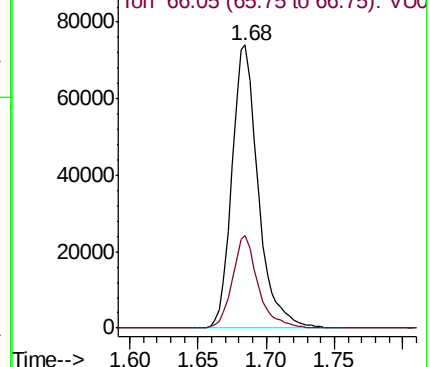
Ion Ratio Lower Upper

64 100

66 32.7 20.9 38.9



Abundance Ion 64.10 (63.80 to 64.80): VU034880.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 14.875 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU034880.D

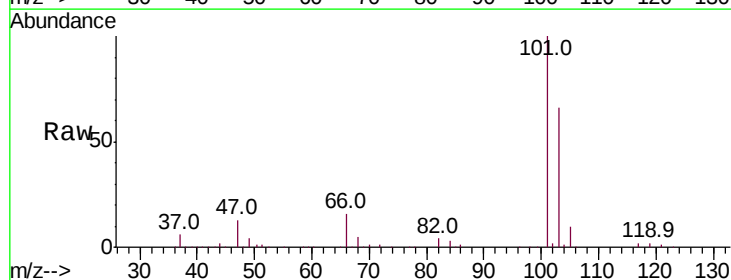
Acq: 30 Sep 2019 14:30

Tgt Ion:101 Resp: 239516

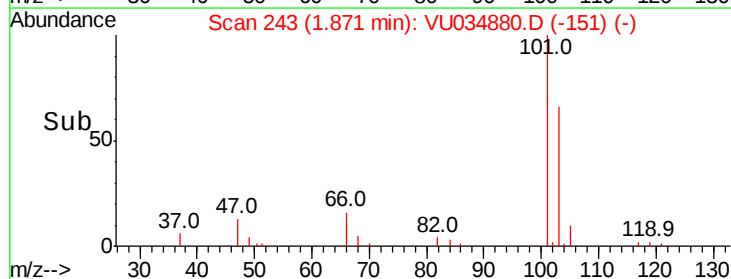
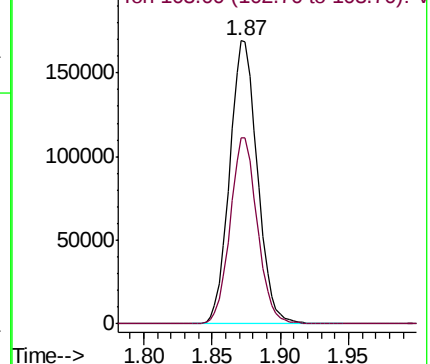
Ion Ratio Lower Upper

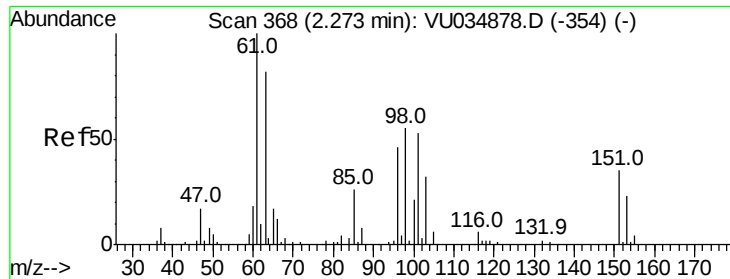
101 100

103 64.6 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): VU034880.D (-233) (-)





#10

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

Concen: 15.402 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

ClientSampleId :

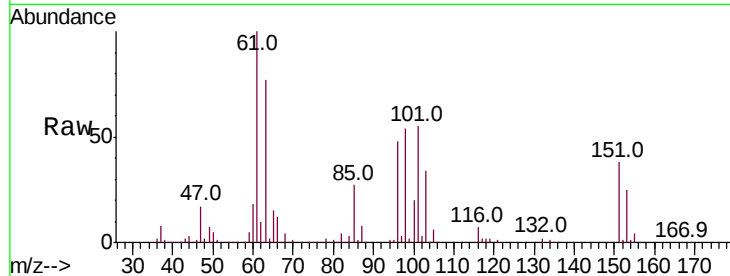
Tot Ion:101 Resp: 140795

Ion Ratio Lower Upper

101 100

85 49.4 37.3 55.9

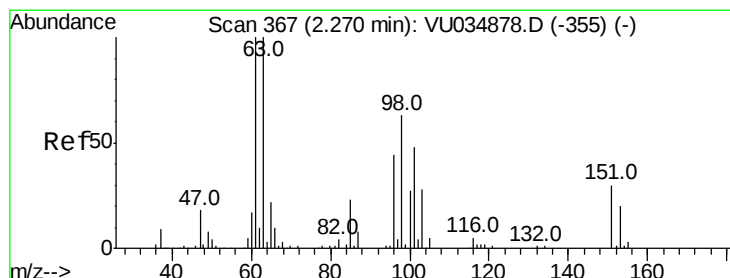
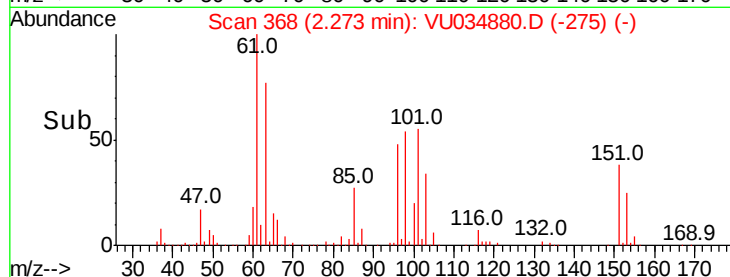
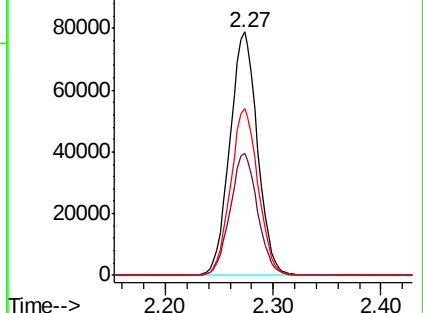
151 68.4 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 14.236 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

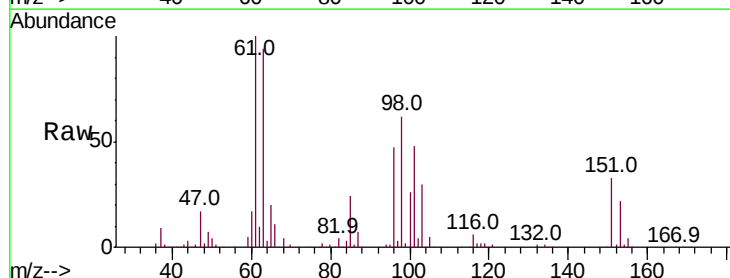
Tgt Ion: 96 Resp: 112906

Ion Ratio Lower Upper

96 100

61 214.7 160.5 298.1

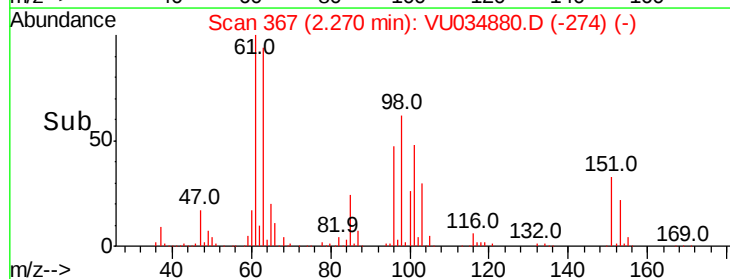
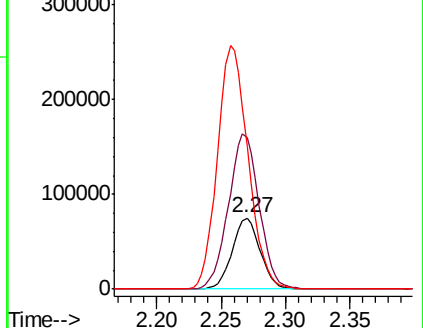
63 202.2 162.3 301.5

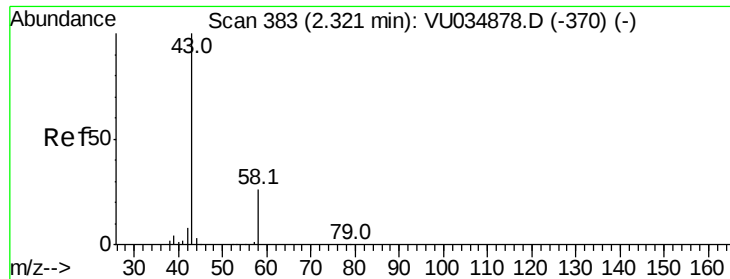


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 182.843 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.02 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

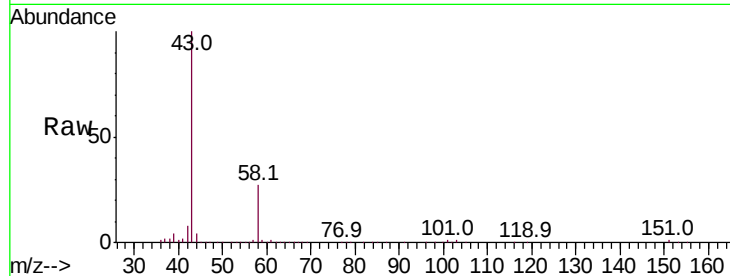
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 471123

Ion Ratio Lower Upper

43 100

58 26.6 0.0 54.0



Abundance Ion 43.05 (42.75 to 43.75): VU034878.D (-370) (-)

Ion 58.05 (57.75 to 58.75): VU034878.D (-370) (-)

2.31

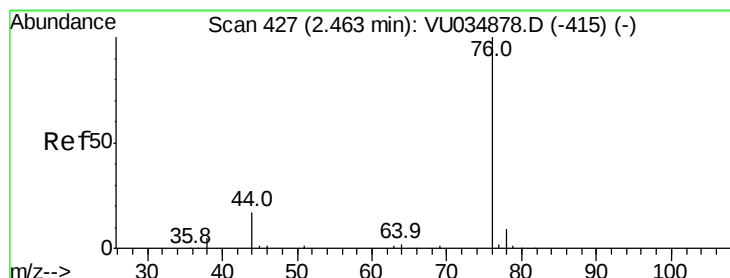
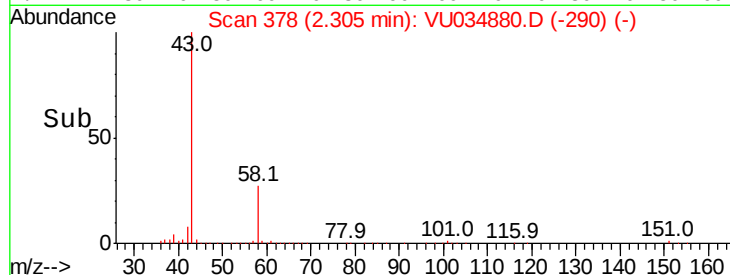
300000

200000

100000

0

Time-->



#14

Carbon disulfide

Concen: 9.571 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU034880.D

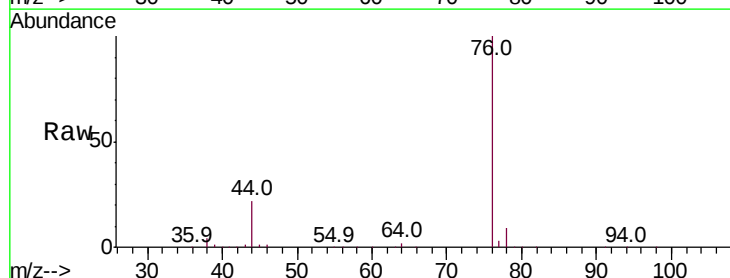
Acq: 30 Sep 2019 14:30

Tgt Ion: 76 Resp: 184501

Ion Ratio Lower Upper

76 100

78 8.9 7.9 11.9



Abundance Ion 76.05 (75.75 to 76.75): VU034878.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU034878.D (-415) (-)

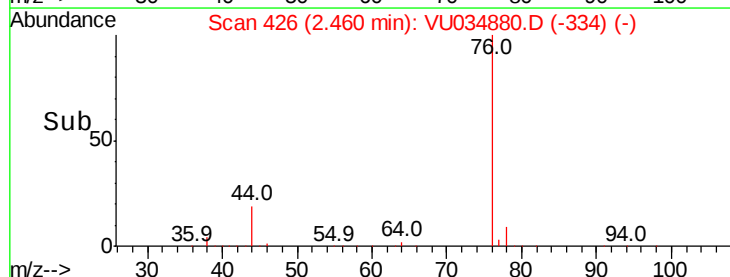
2.46

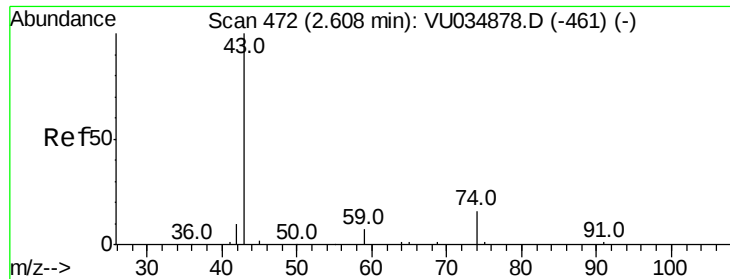
100000

50000

0

Time-->





#15

Methyl Acetate

Concen: 17.130 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.01 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

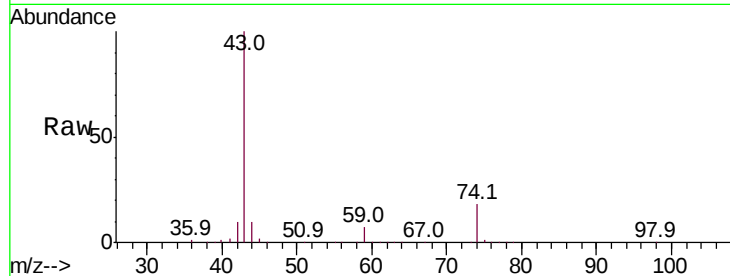
ClientSampleId :

Tot Ion: 43 Resp: 103875

Ion Ratio Lower Upper

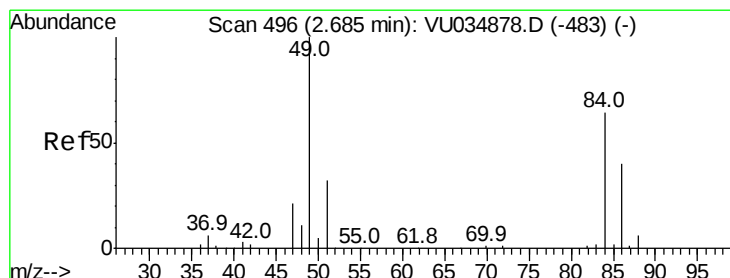
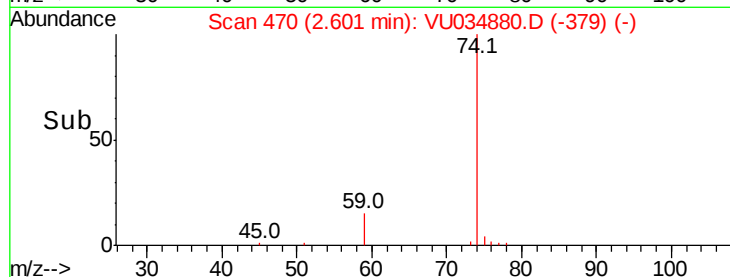
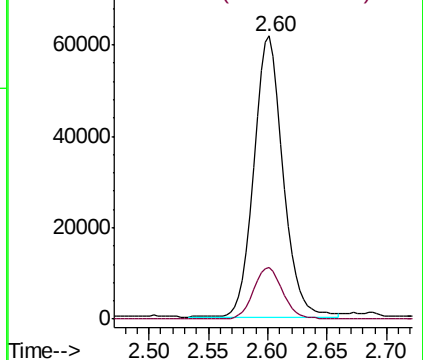
43 100

74 18.7 15.5 23.3



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 14.152 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

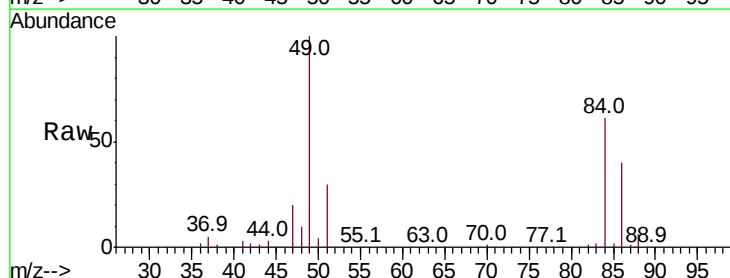
Tgt Ion: 84 Resp: 151461

Ion Ratio Lower Upper

84 100

86 64.8 44.2 82.2

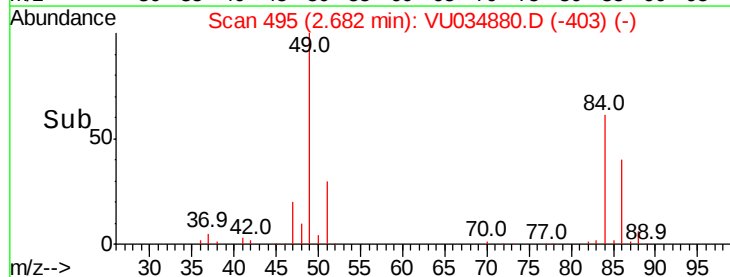
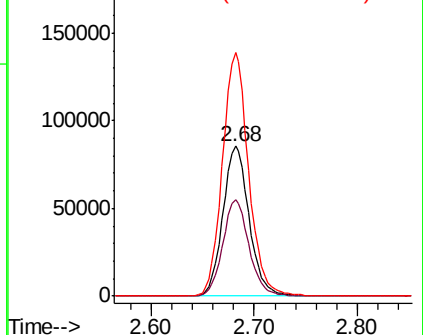
49 162.8 110.0 204.4

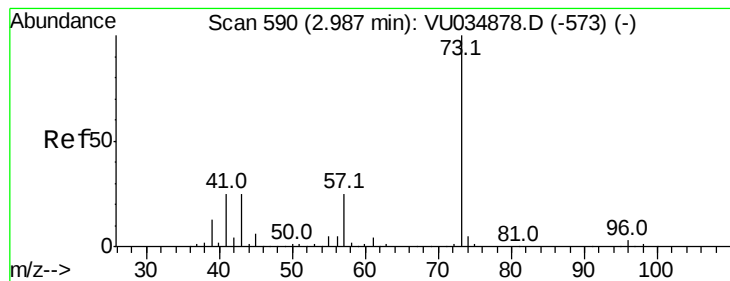


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



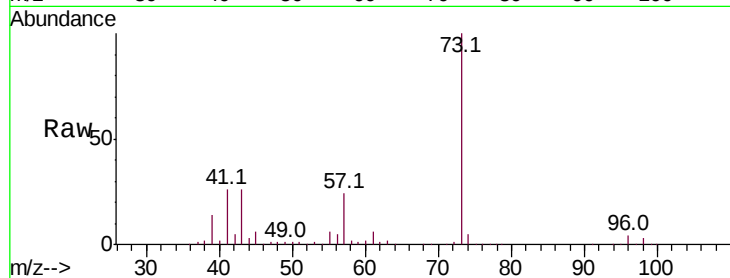


#17

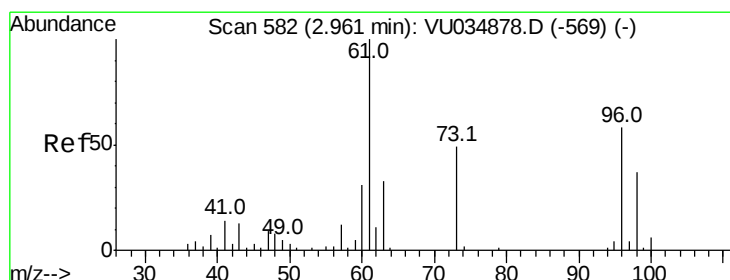
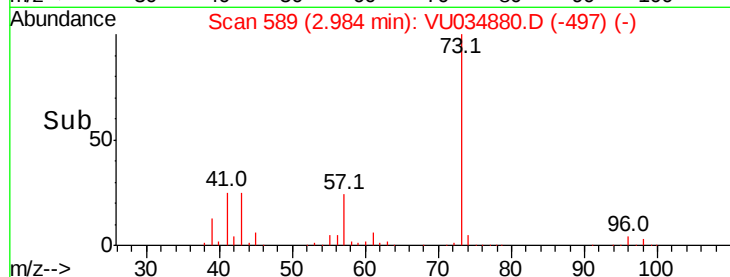
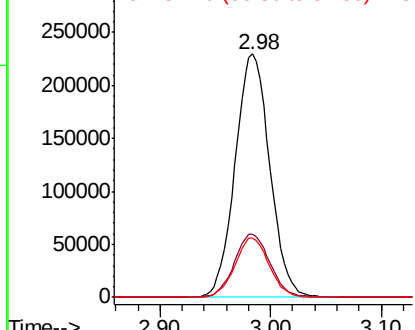
Methvl tert-butvl Ether
 Concen: 17.433 ug/L
 RT: 2.98 min Scan# 589
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 500226
 Ion Ratio Lower Upper
 73 100
 43 26.1 20.8 31.2
 57 24.1 19.8 29.6



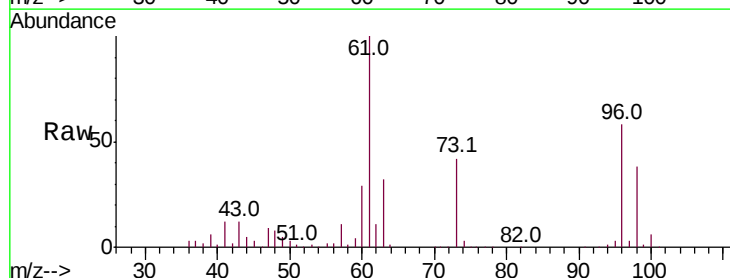
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



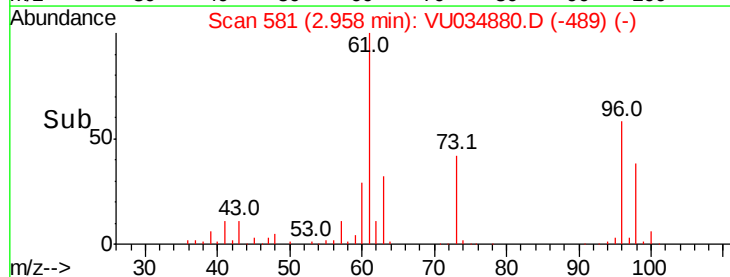
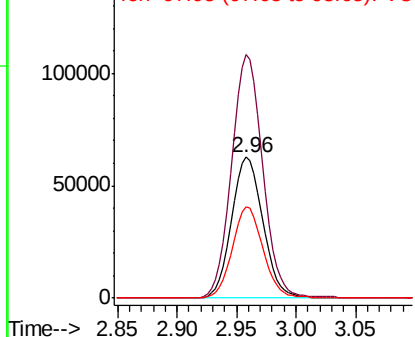
#18

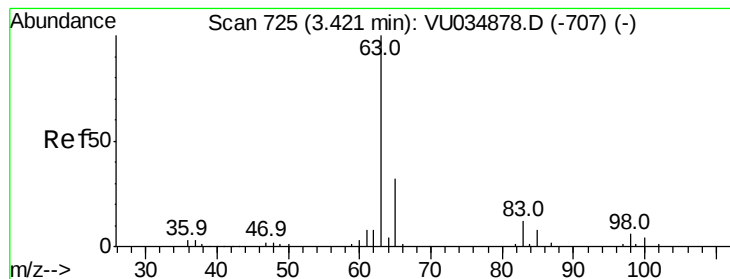
trans-1,2-Dichloroethene
 Concen: 13.886 ug/L
 RT: 2.96 min Scan# 581
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion: 96 Resp: 114716
 Ion Ratio Lower Upper
 96 100
 61 173.1 121.0 224.8
 98 65.2 44.7 83.1



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





#19

1,1-Dichloroethane

Concen: 17.342 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

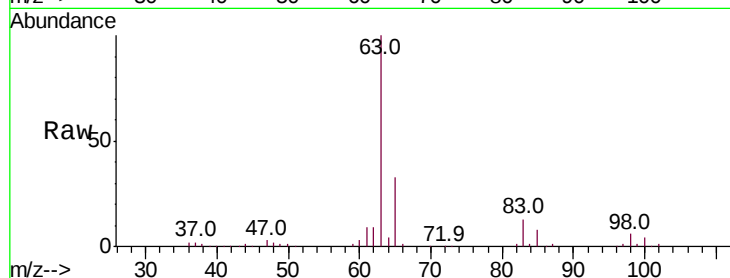
Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 358879

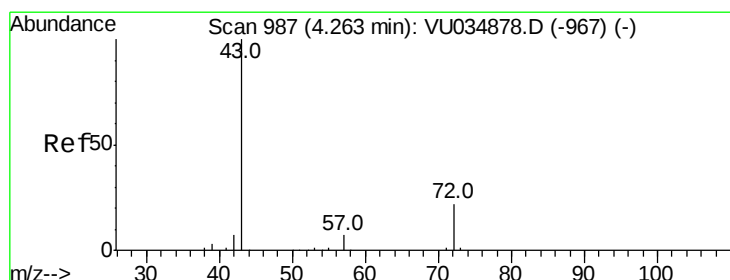
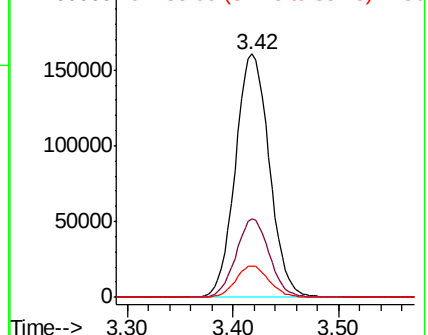
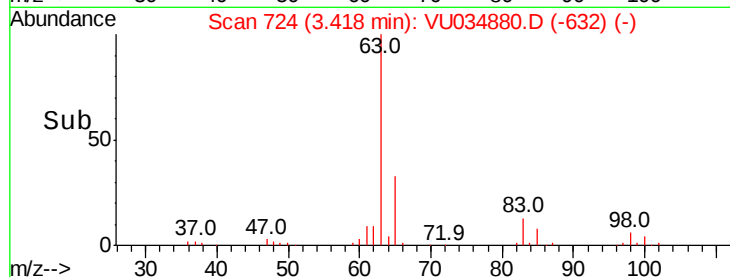
Ion	Ratio	Lower	Upper
63	100		
65	32.5	22.7	42.1
83	13.0	8.4	15.6



Abundance Ion 63.10 (62.80 to 63.80): VU034880.D (-632) (-)

Ion 65.10 (64.80 to 65.80): VU034880.D (-632) (-)

Ion 83.05 (82.75 to 83.75): VU034880.D (-632) (-)



#21

2-Butanone

Concen: 210.936 ug/L

RT: 4.25 min Scan# 982

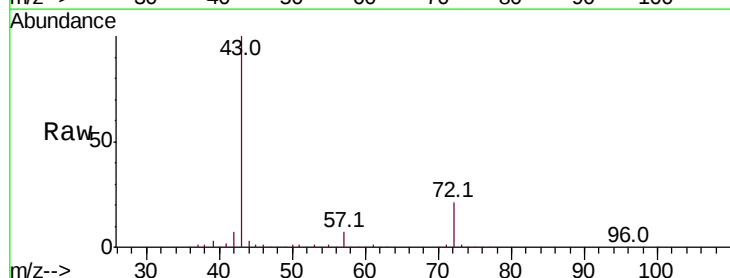
Delta R.T. -0.02 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

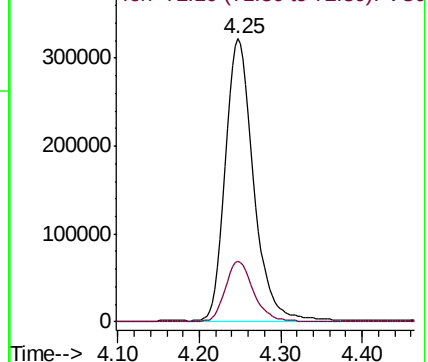
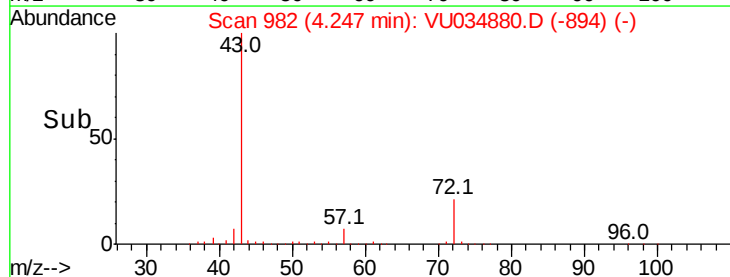
Tgt Ion: 43 Resp: 782012

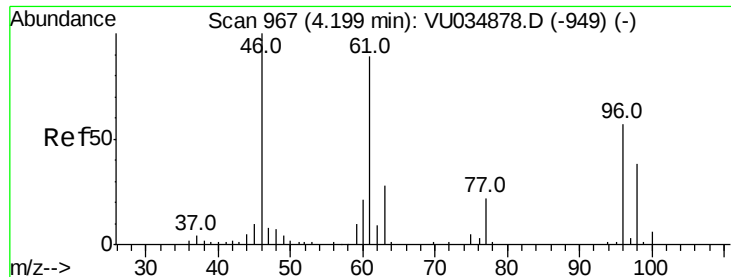
Ion	Ratio	Lower	Upper
43	100		
72	22.0	10.1	30.1



Abundance Ion 43.05 (42.75 to 43.75): VU034880.D (-894) (-)

Ion 72.10 (71.80 to 72.80): VU034880.D (-894) (-)



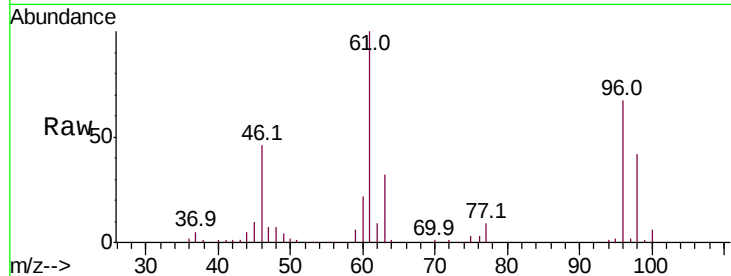


#22

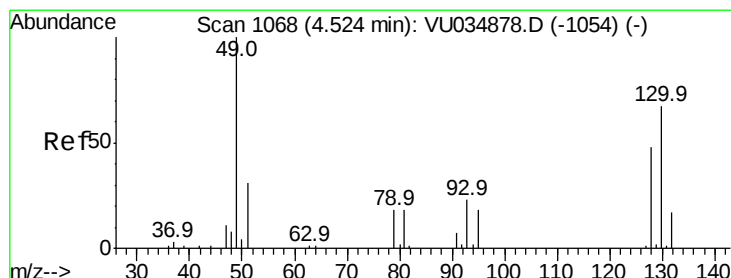
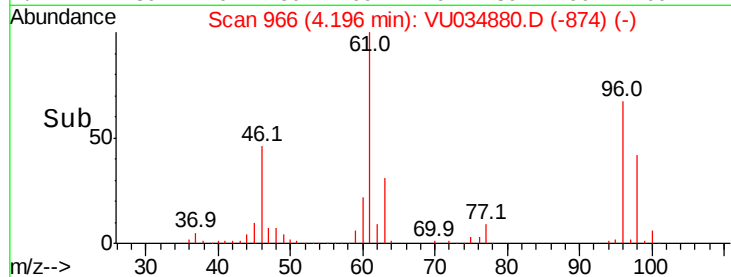
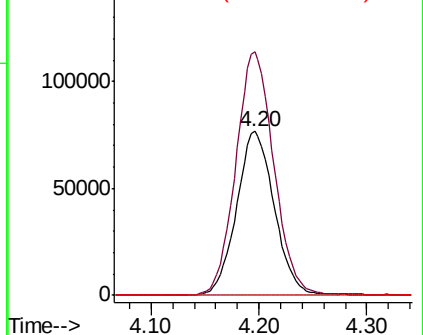
cis-1,2-Dichloroethene
 Concen: 16.587 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 186519
 Ion Ratio Lower Upper
 96 100
 61 148.7 108.6 201.8
 68 0.0 0.0 0.0



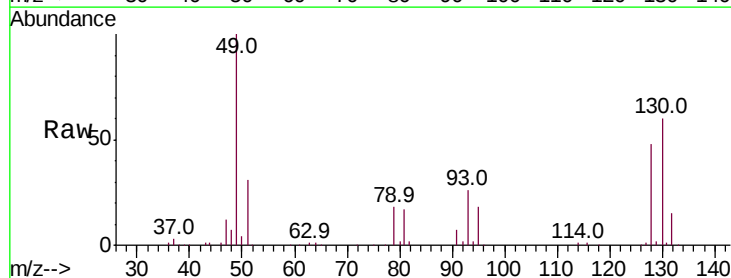
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



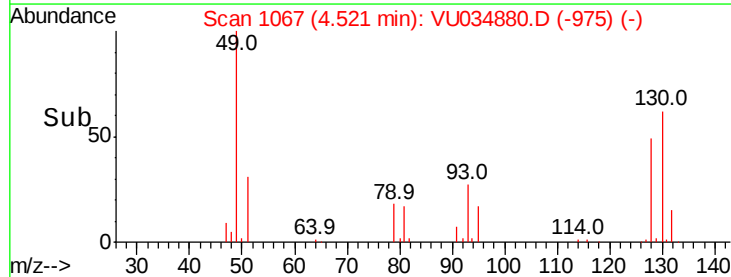
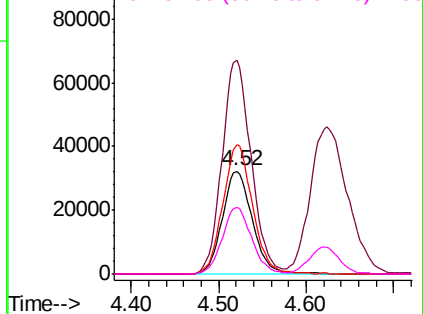
#23

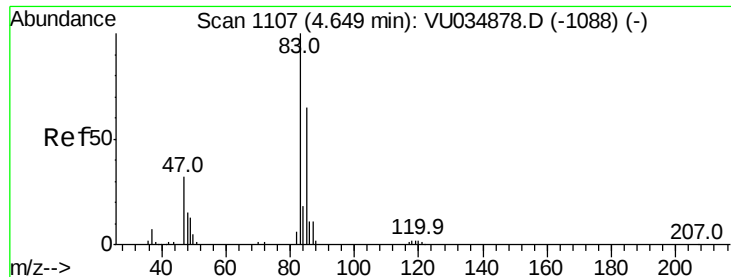
Bromochloromethane
 Concen: 18.374 ug/L
 RT: 4.52 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion: 128 Resp: 76340
 Ion Ratio Lower Upper
 128 100
 49 207.3 146.5 272.1
 130 125.1 97.2 180.4
 51 64.9 51.3 76.9



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 16.974 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

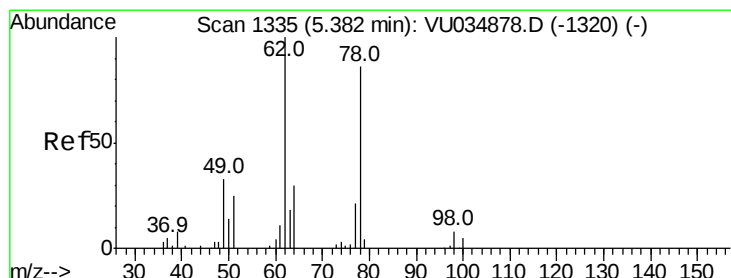
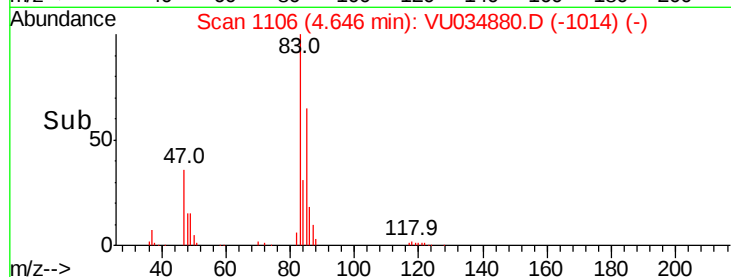
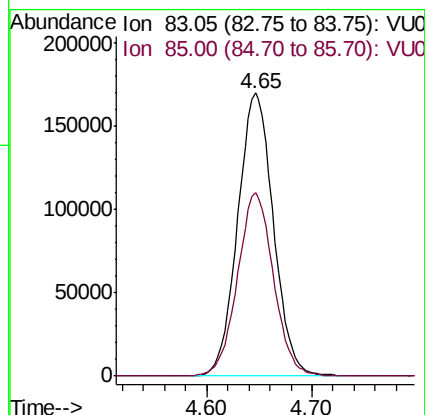
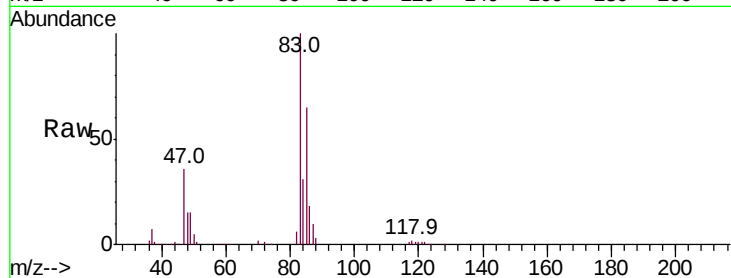
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 399103

Ion Ratio Lower Upper

83 100

85 65.0 45.2 84.0



#27

1,2-Dichloroethane

Concen: 19.123 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU034880.D

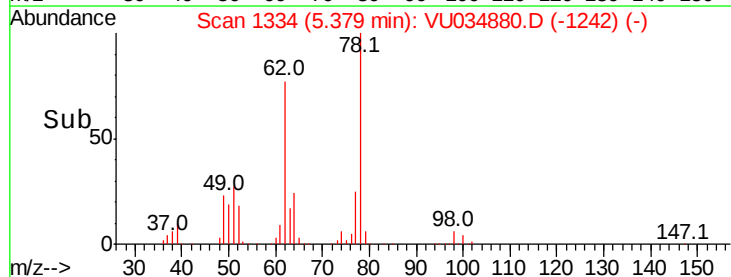
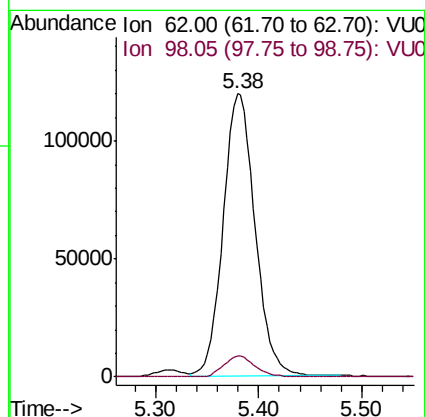
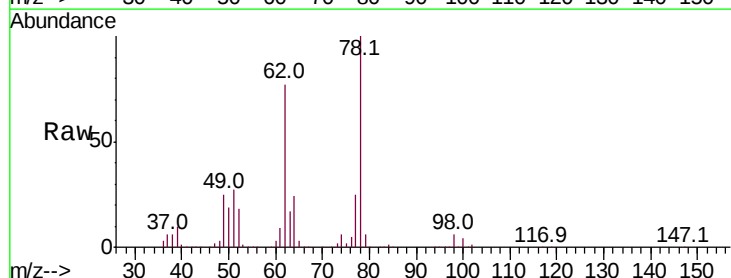
Acq: 30 Sep 2019 14:30

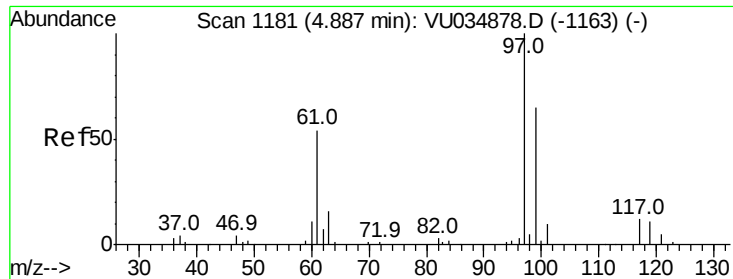
Tgt Ion: 62 Resp: 258235

Ion Ratio Lower Upper

62 100

98 7.5 6.2 9.4

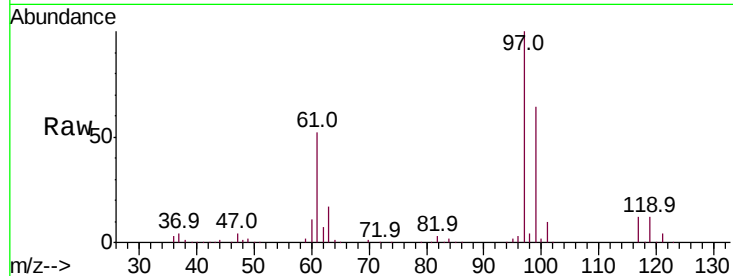




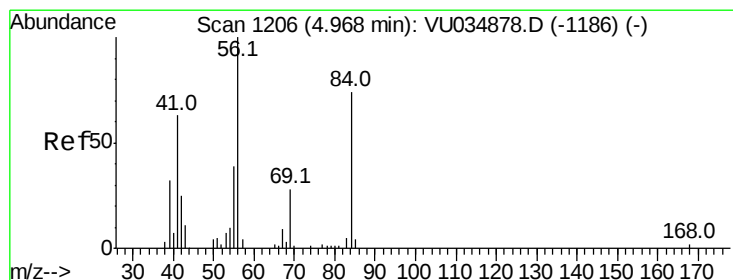
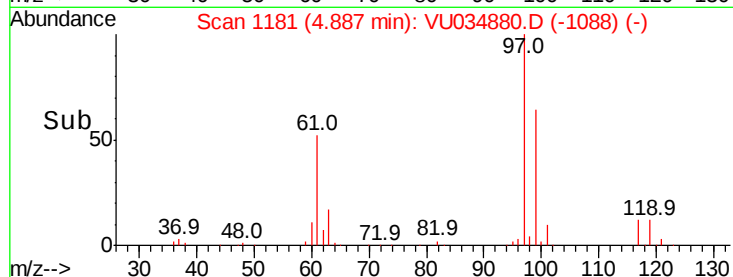
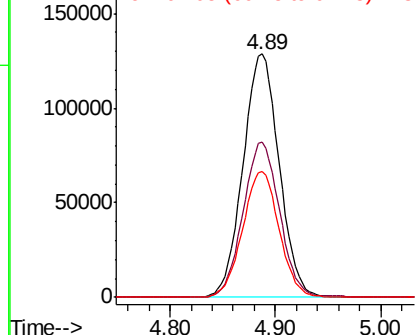
#29
 1,1,1-Trichloroethane
 Concen: 17.943 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 307776
 Ion Ratio Lower Upper
 97 100
 99 64.6 52.2 78.4
 61 52.2 41.4 62.2

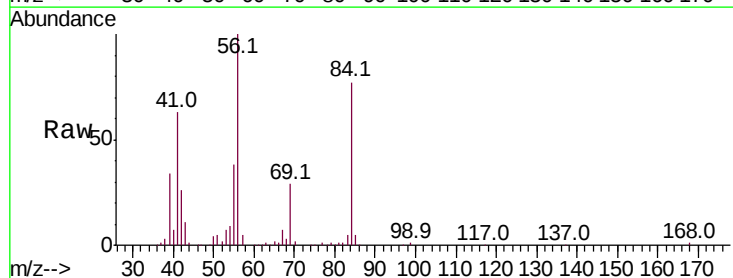


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

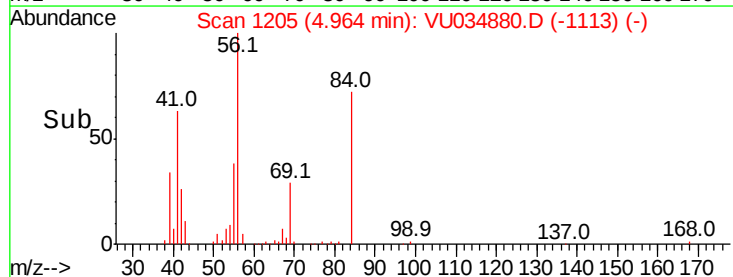
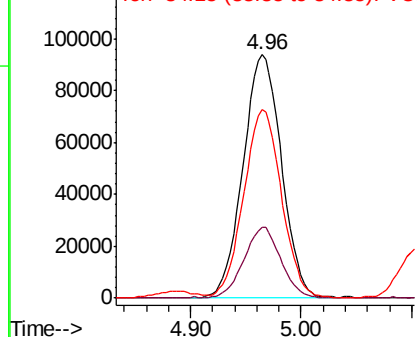


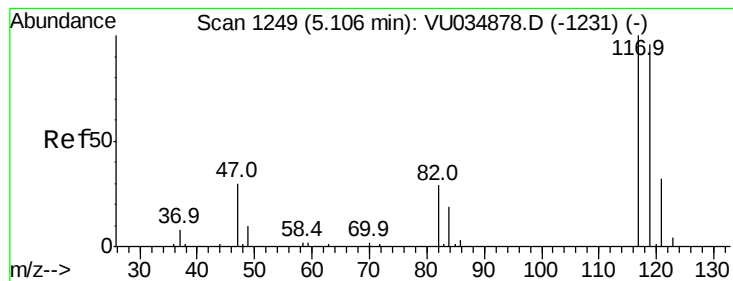
#30
 Cyclohexane
 Concen: 13.255 ug/L
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion: 56 Resp: 226839
 Ion Ratio Lower Upper
 56 100
 69 27.9 22.6 34.0
 84 76.3 63.4 95.2



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





#31

Carbon tetrachloride

Concen: 17.609 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

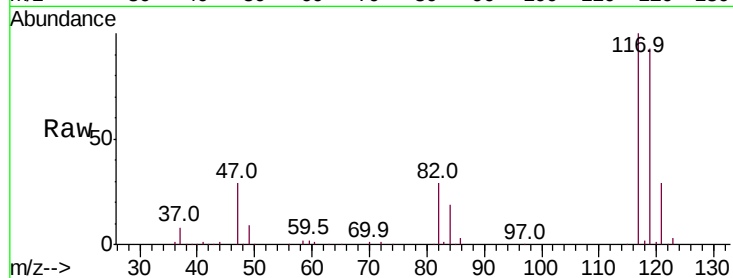
ClientSampleId :

Tot Ion:117 Resp: 243943

Ion Ratio Lower Upper

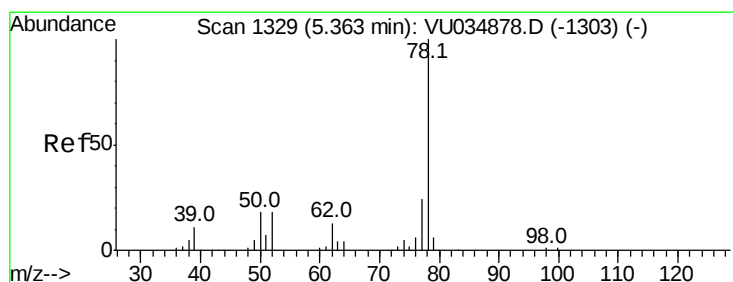
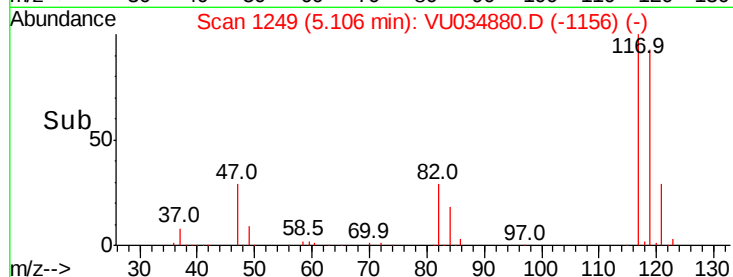
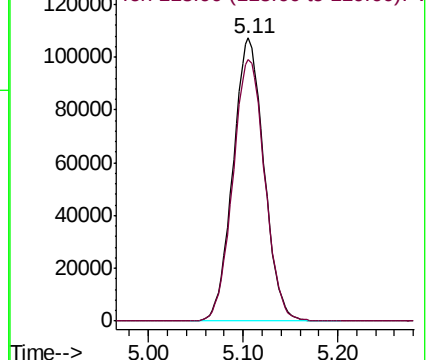
117 100

119 95.2 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 15.601 ug/L

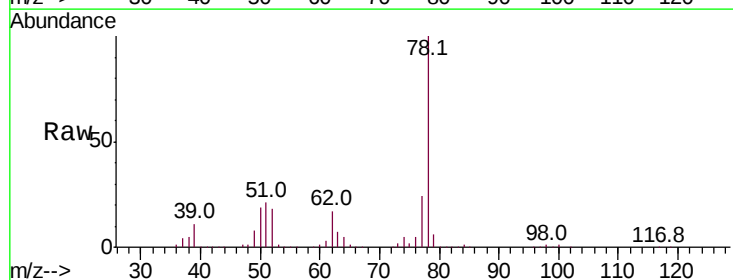
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

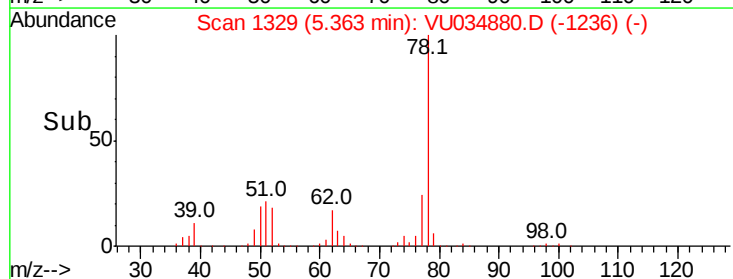
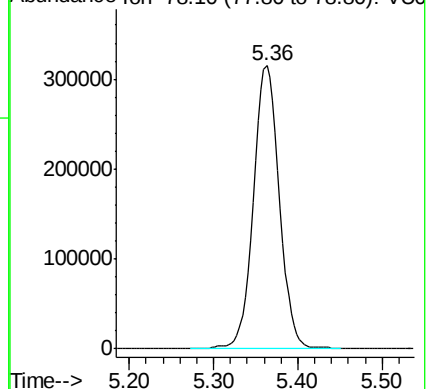
Lab File: VU034880.D

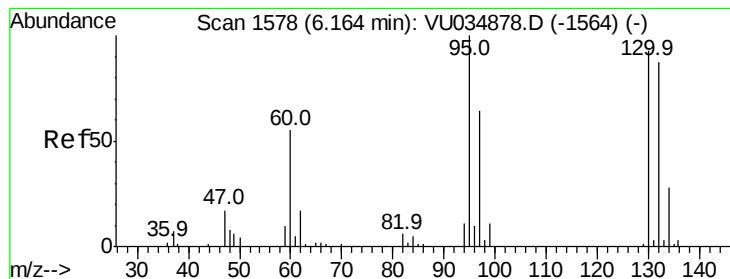
Acq: 30 Sep 2019 14:30

Tgt Ion: 78 Resp: 671087



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 16.258 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 175175

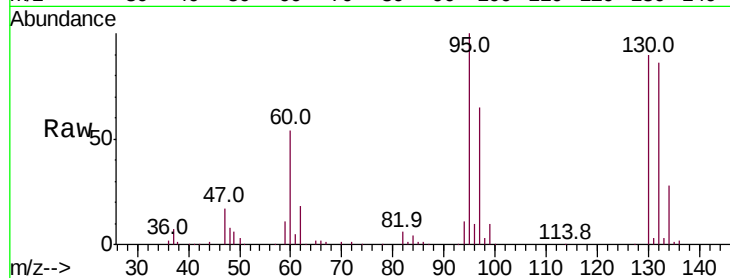
Ion Ratio Lower Upper

95 100

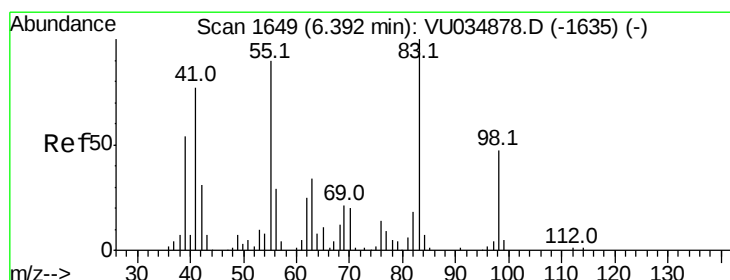
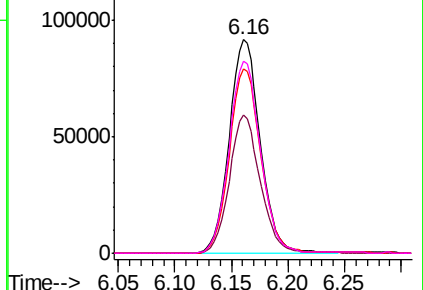
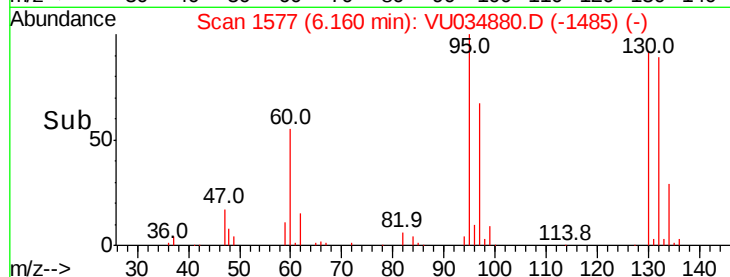
97 64.8 45.1 83.7

132 86.5 61.2 113.8

130 89.7 65.1 120.9



Abundance Ion 95.00 (94.70 to 95.70): VU034880.D (-1485) (-)



#35

Methylcyclohexane

Concen: 13.112 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

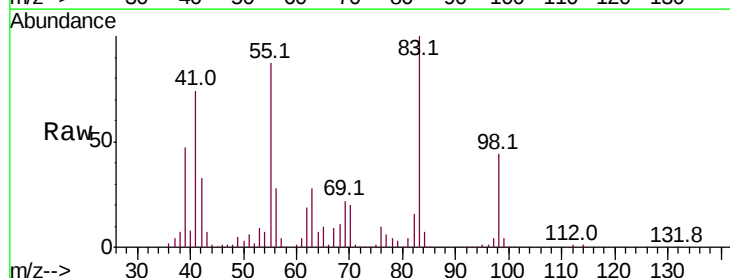
Tgt Ion: 83 Resp: 220794

Ion Ratio Lower Upper

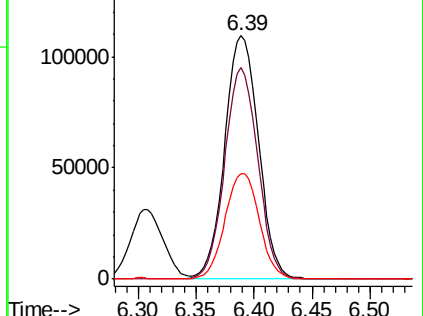
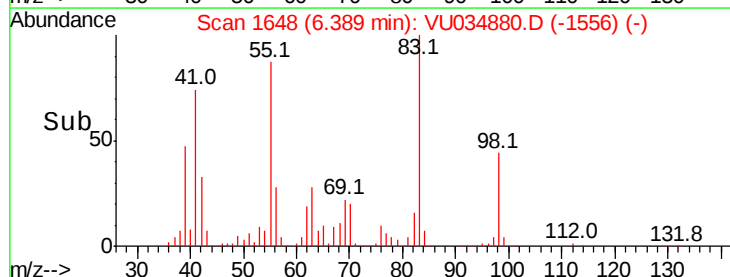
83 100

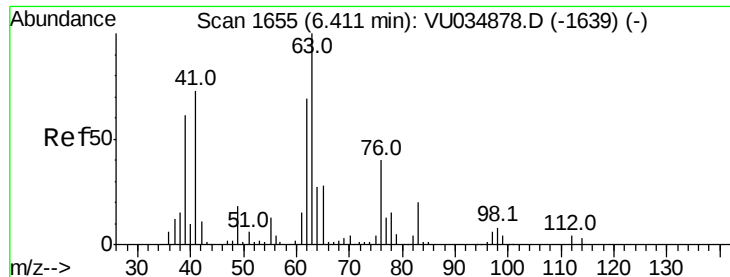
55 85.3 68.9 103.3

98 44.4 36.6 54.8



Abundance Ion 83.15 (82.85 to 83.85): VU034880.D (-1556) (-)





#37

1,2-Dichloropropane

Concen: 16.592 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

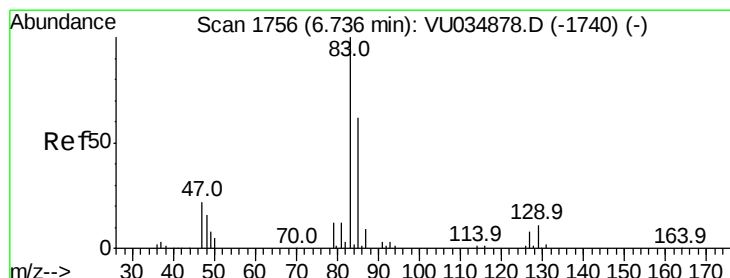
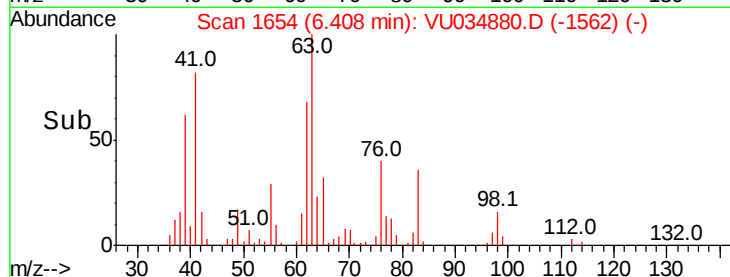
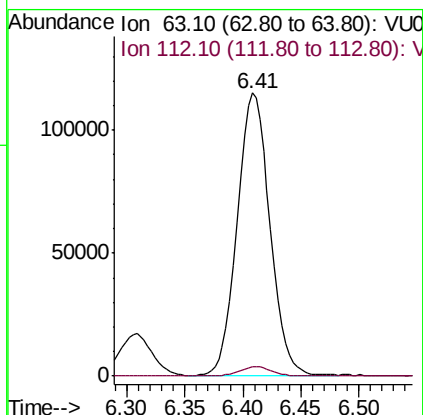
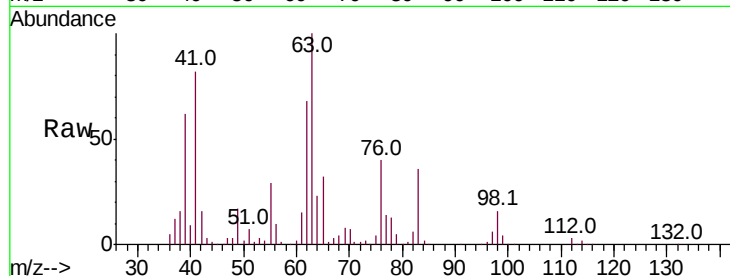
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 223919

Ion Ratio Lower Upper

63 100

112 3.5 2.6 4.0



#38

Bromodichloromethane

Concen: 17.970 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

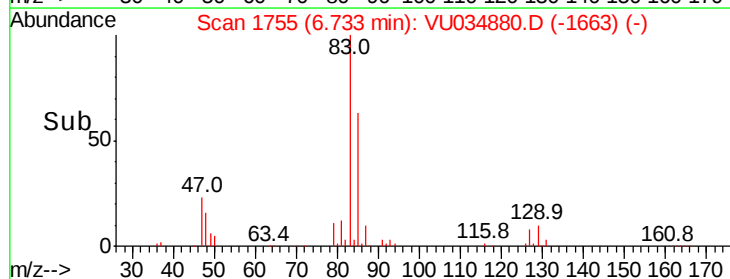
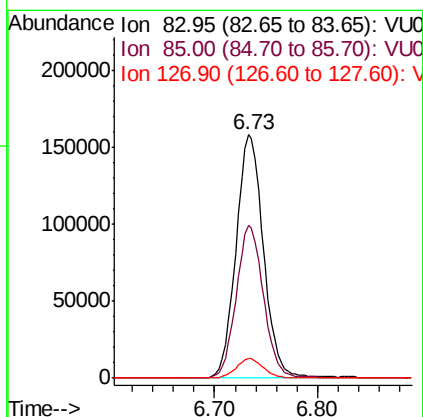
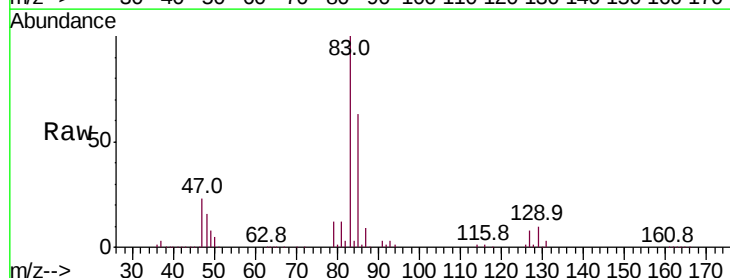
Tgt Ion: 83 Resp: 293529

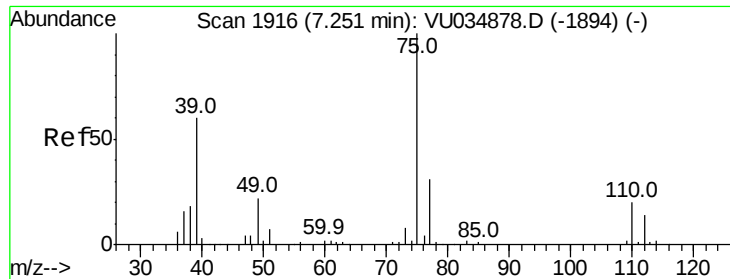
Ion Ratio Lower Upper

83 100

85 62.8 43.5 80.7

127 7.8 6.2 9.4

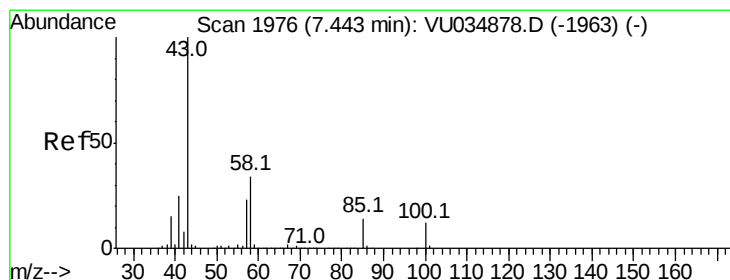
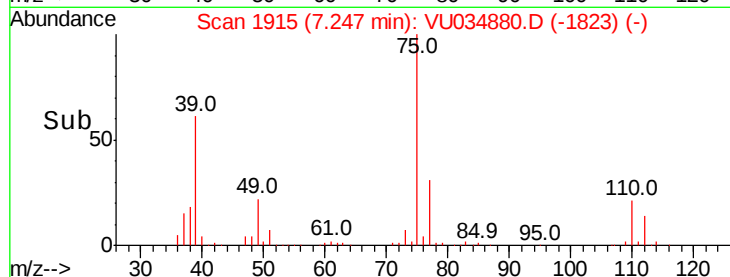
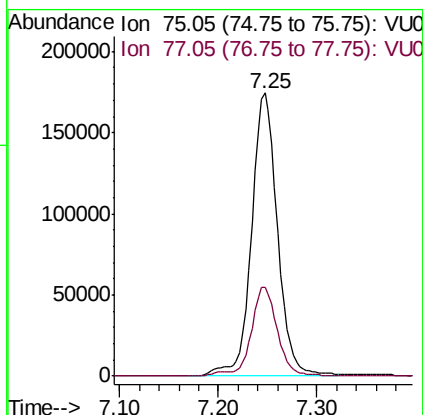
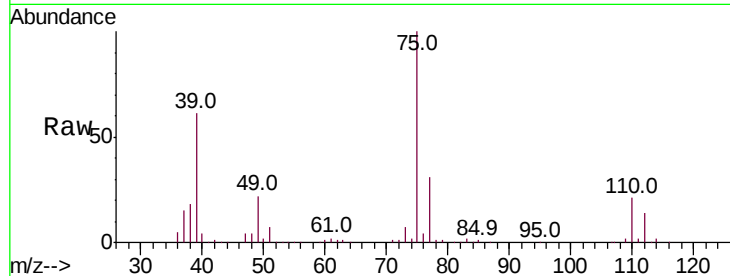




#39
 cis-1,3-Dichloropropene
 Concen: 16.937 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

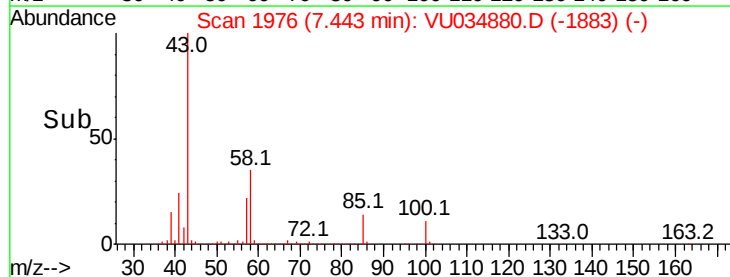
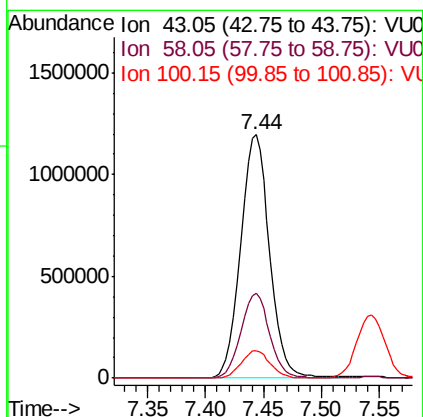
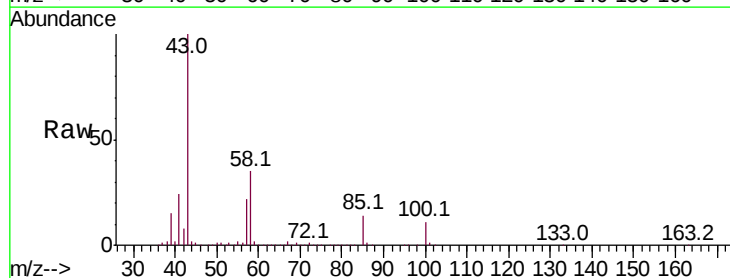
Instrument :
 MSVOA_U
 ClientSampleId :

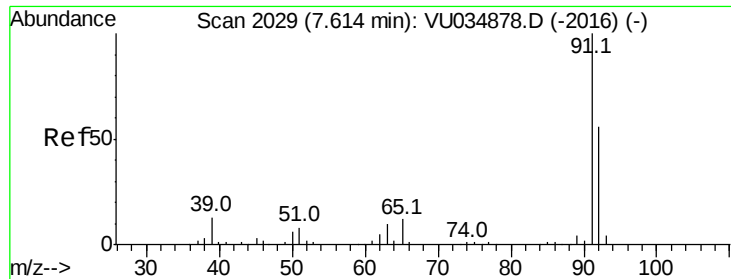
Tot Ion: 75 Resp: 316696
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 198.577 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion: 43 Resp: 2065736
 Ion Ratio Lower Upper
 43 100
 58 34.6 27.0 40.6
 100 11.4 9.2 13.8





#42

Toluene

Concen: 15.902 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

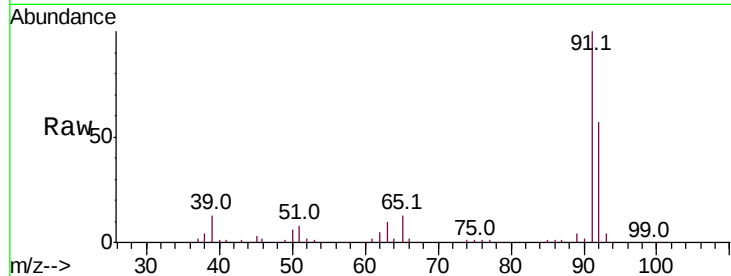
ClientSampleId :

Tot Ion: 91 Resp: 741121

Ion Ratio Lower Upper

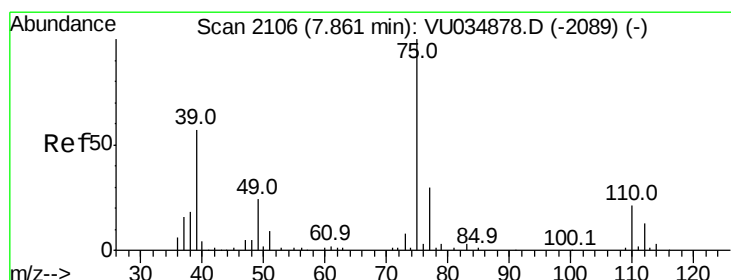
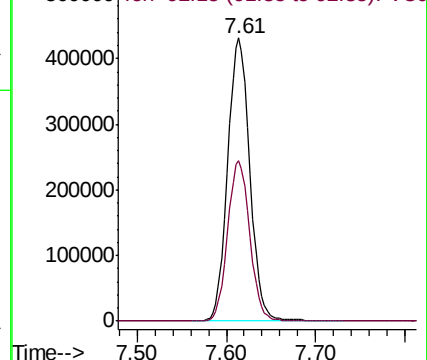
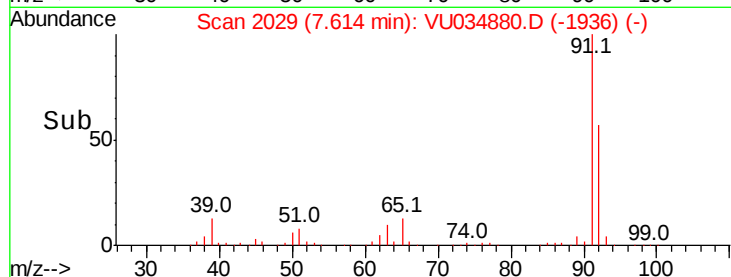
91 100

92 56.9 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU034880.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU034880.D (-2016) (-)



#44

trans-1,3-Dichloropropene

Concen: 18.108 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034880.D

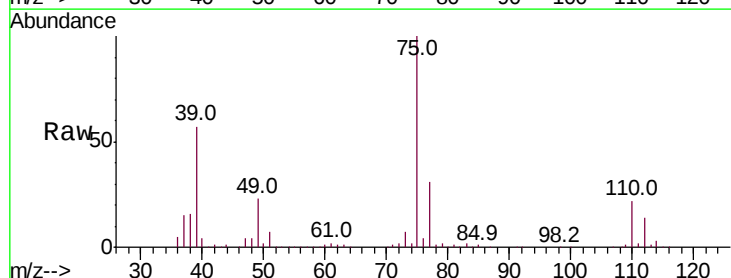
Acq: 30 Sep 2019 14:30

Tgt Ion: 75 Resp: 276927

Ion Ratio Lower Upper

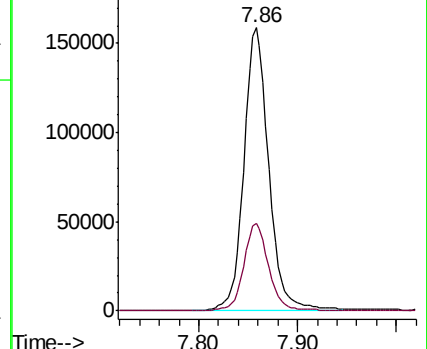
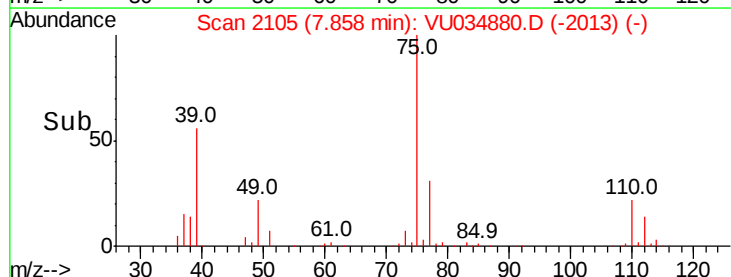
75 100

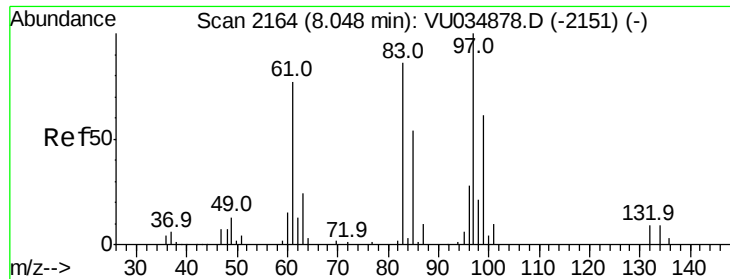
77 30.9 21.2 39.4



Abundance Ion 75.05 (74.75 to 75.75): VU034880.D (-2105) (-)

Ion 77.05 (76.75 to 77.75): VU034880.D (-2105) (-)

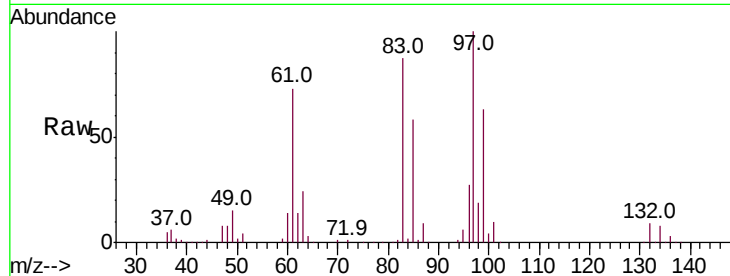




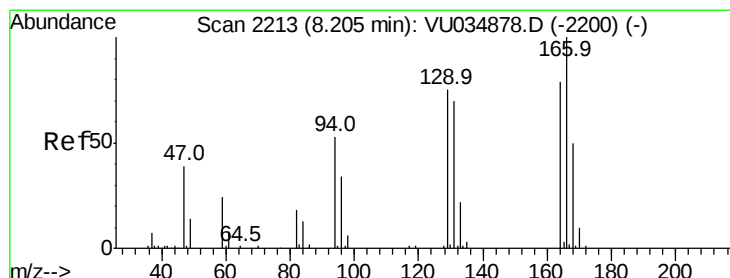
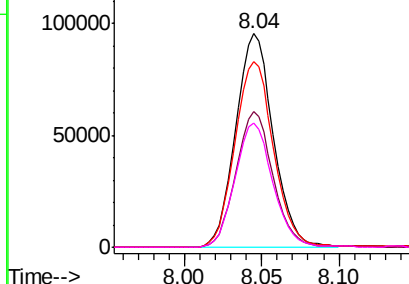
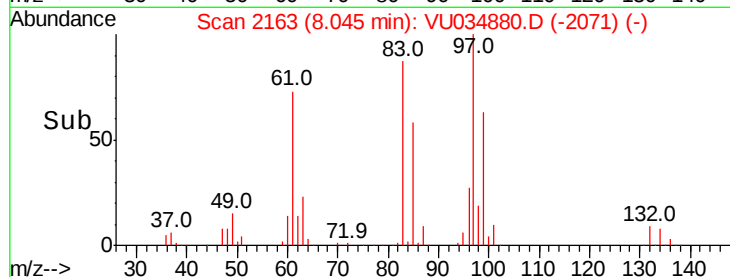
#45
1,1,2-Trichloroethane
Concen: 18.377 ug/L
RT: 8.04 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 160979
Ion Ratio Lower Upper
97 100
99 63.3 42.6 79.0
83 87.1 60.1 111.7
85 58.0 38.0 70.6

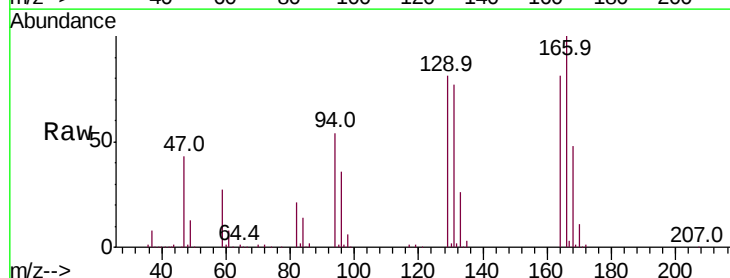


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

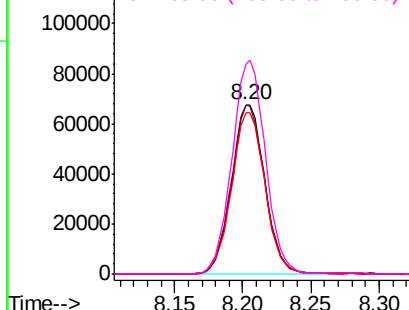
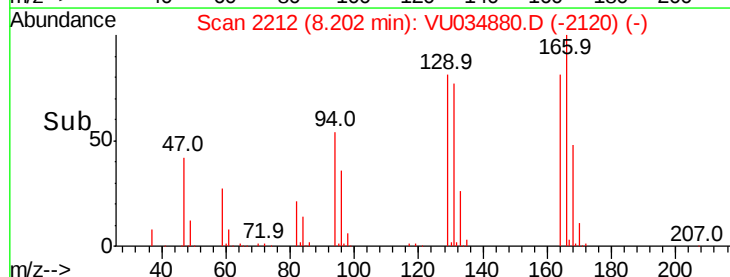


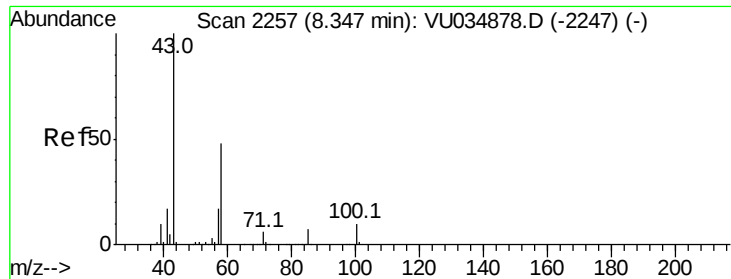
#47
Tetrachloroethene
Concen: 17.137 ug/L
RT: 8.20 min Scan# 2212
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Tgt Ion:164 Resp: 114051
Ion Ratio Lower Upper
164 100
129 99.8 66.3 123.1
131 95.1 62.2 115.4
166 124.0 88.4 164.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

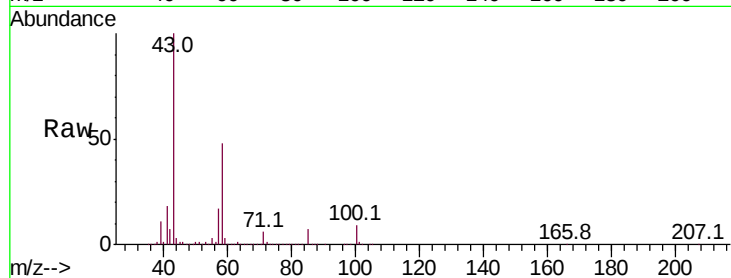




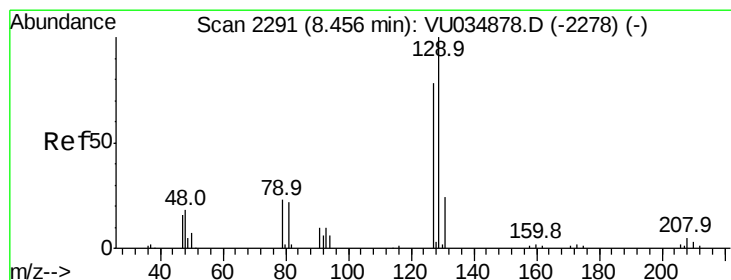
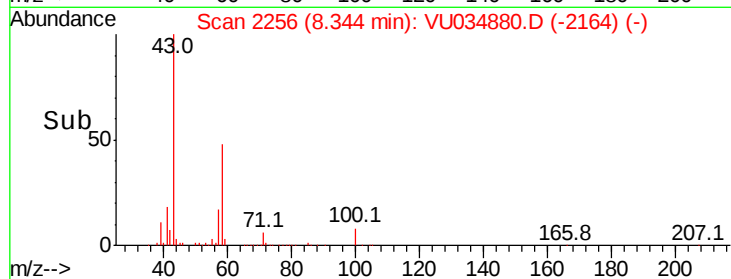
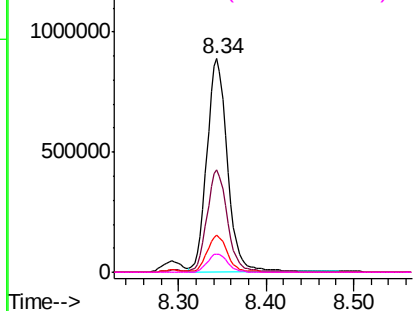
#48
2-Hexanone
Concen: 207.038 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 1453813
Ion Ratio Lower Upper
43 100
58 47.9 37.1 55.7
57 17.0 13.4 20.0
100 8.8 7.0 10.4

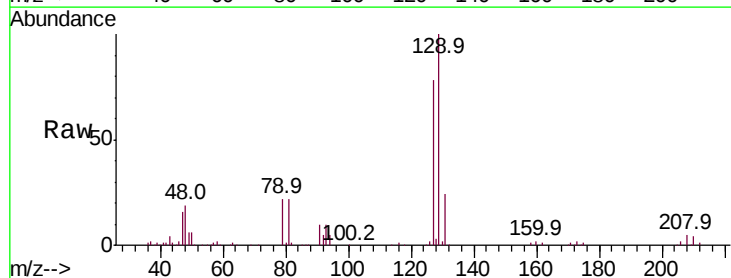


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

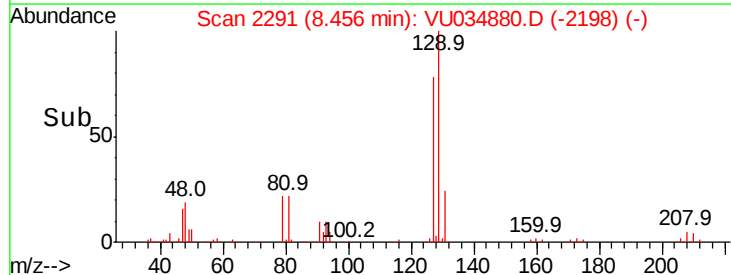
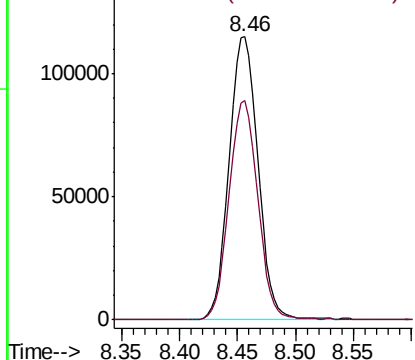


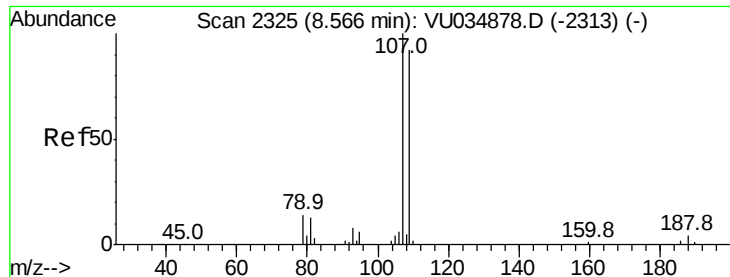
#49
Dibromochloromethane
Concen: 19.370 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Tgt Ion: 129 Resp: 198350
Ion Ratio Lower Upper
129 100
127 77.6 54.3 100.9



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

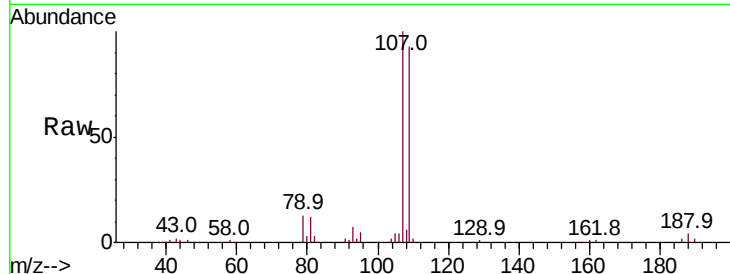




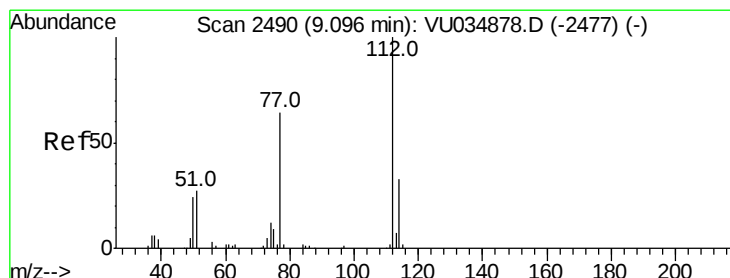
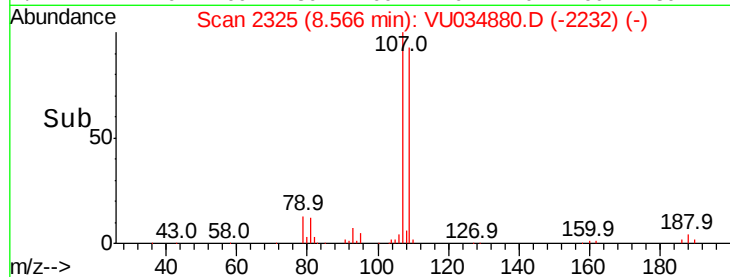
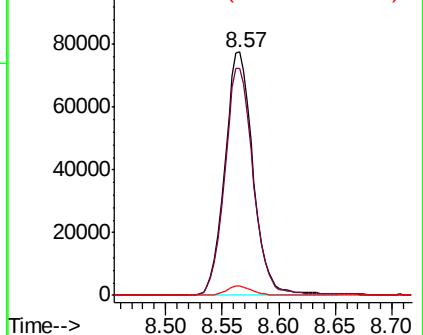
#50
 1,2-Dibromoethane
 Concen: 17.398 ug/L
 RT: 8.57 min Scan# 2325
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	64.6	120.0
188	3.6	2.9	4.3

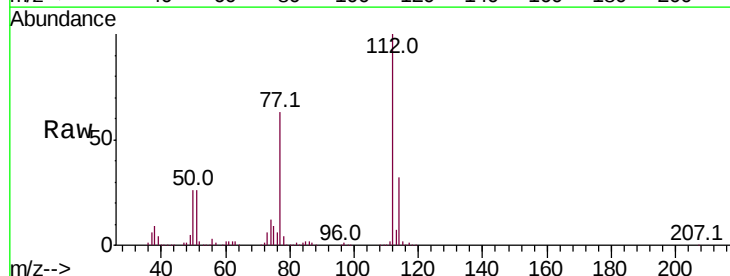


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

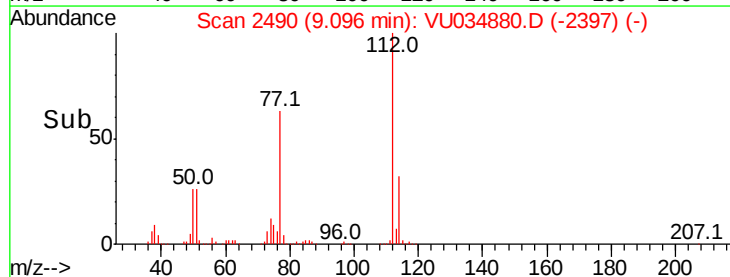
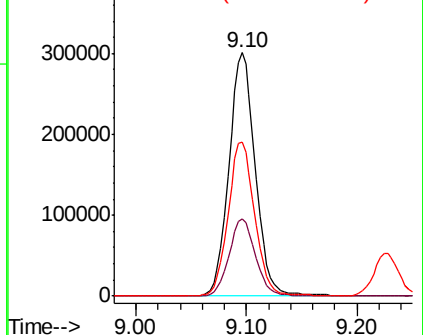


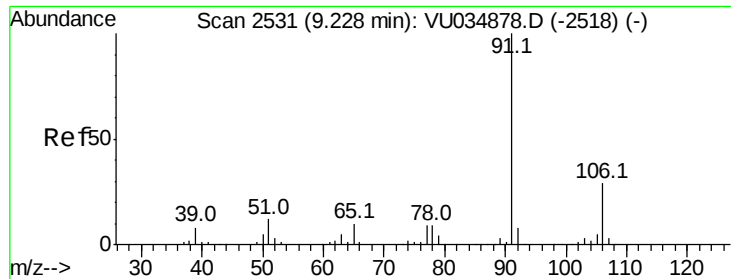
#51
 Chlorobenzene
 Concen: 16.969 ug/L
 RT: 9.10 min Scan# 2490
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.7	42.3
77	63.4	51.5	77.3



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V

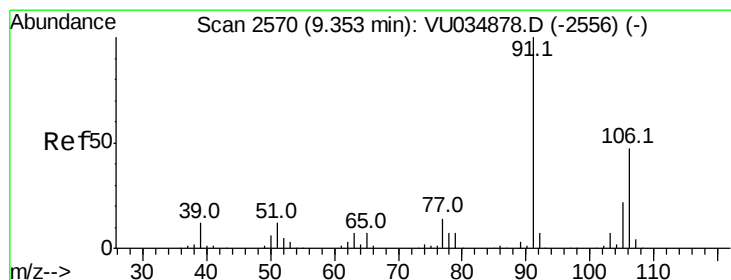
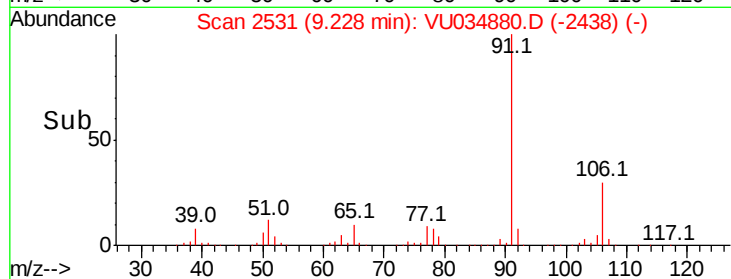
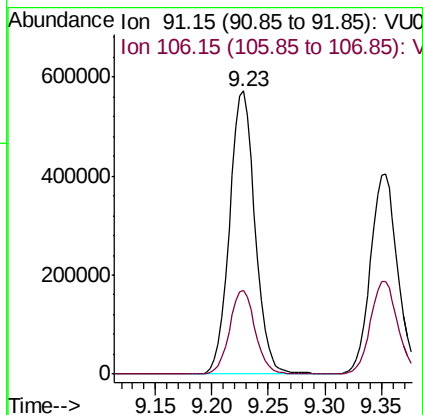
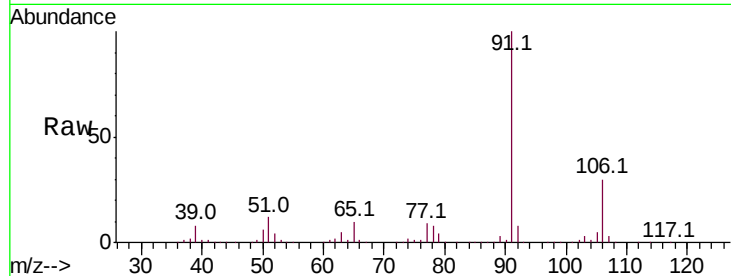




#52
Ethylbenzene
Concen: 16.642 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

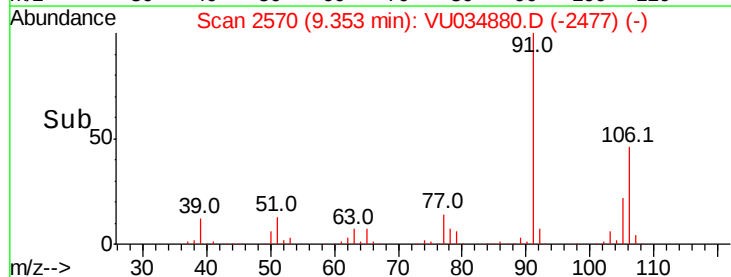
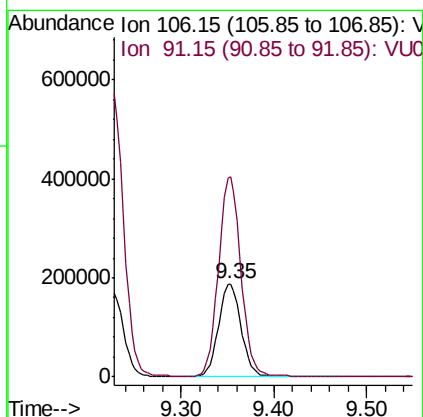
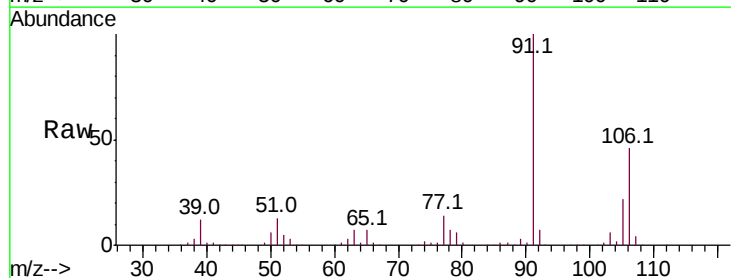
Instrument :
MSVOA_U
ClientSampleId :

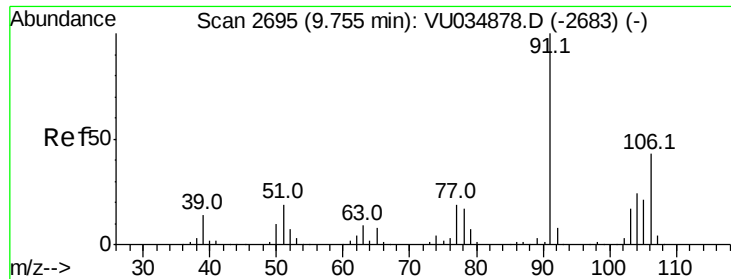
Tot Ion: 91 Resp: 897323
Ion Ratio Lower Upper
91 100
106 29.7 20.2 37.4



#53
m,p-Xylene
Concen: 16.531 ug/L
RT: 9.35 min Scan# 2570
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Tgt Ion: 106 Resp: 315600
Ion Ratio Lower Upper
106 100
91 215.7 149.4 277.5

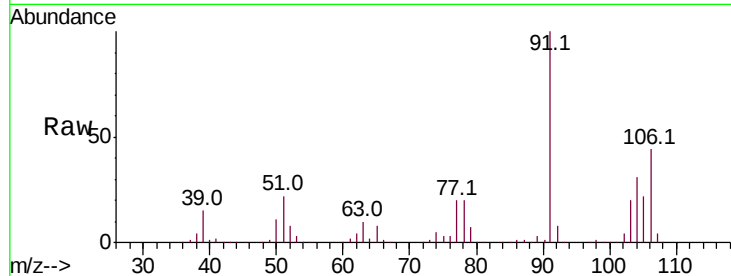




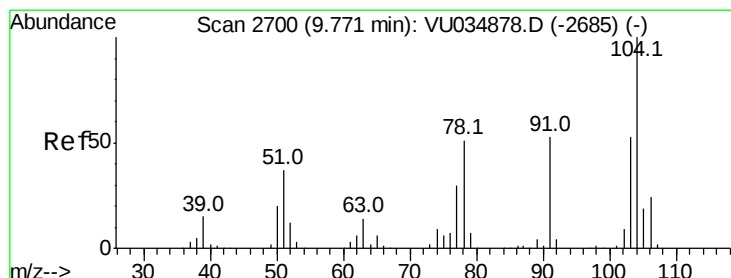
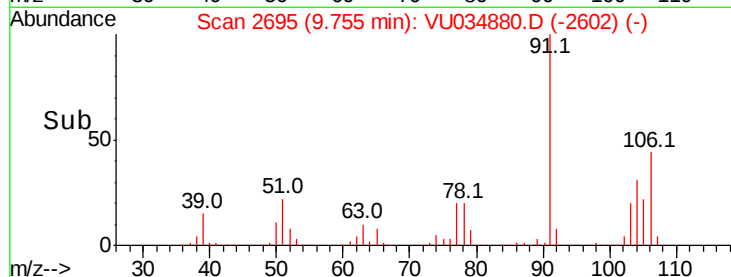
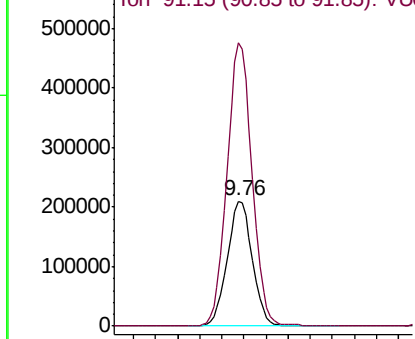
#54
o-Xylene
Concen: 17.221 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 331777
Ion Ratio Lower Upper
106 100
91 226.3 161.4 299.8

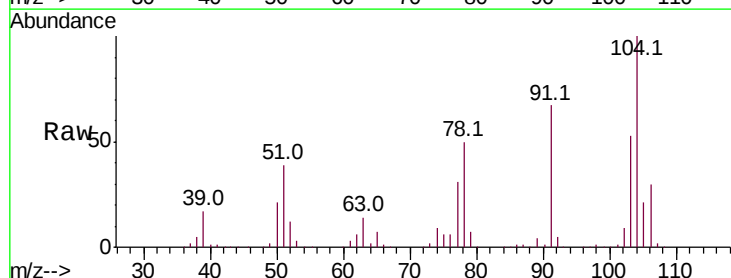


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

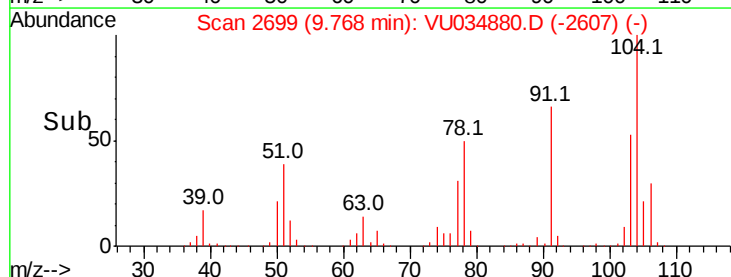
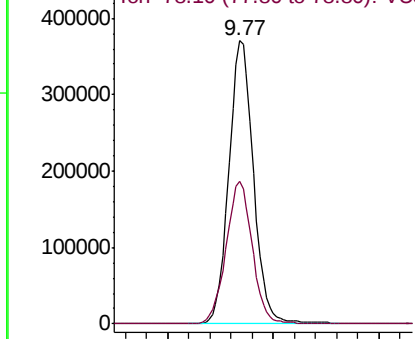


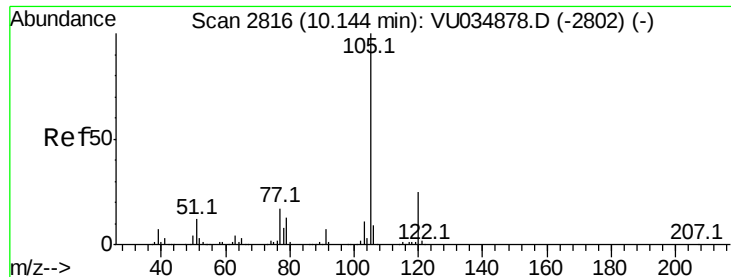
#55
Styrene
Concen: 18.638 ug/L
RT: 9.77 min Scan# 2699
Delta R.T. -0.00 min
Lab File: VU034880.D
Acq: 30 Sep 2019 14:30

Tgt Ion:104 Resp: 599628
Ion Ratio Lower Upper
104 100
78 50.2 35.4 65.7



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





#56

Isopropylbenzene

Concen: 17.751 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

ClientSampleId :

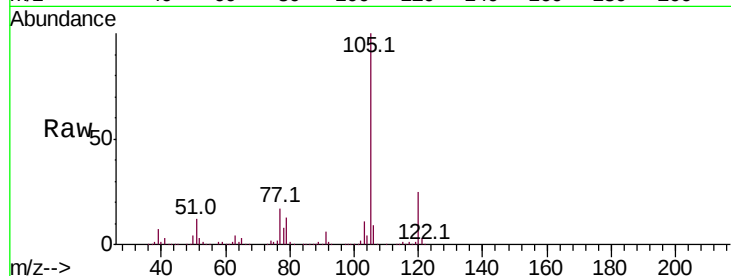
Tot Ion:105 Resp: 955707

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.4

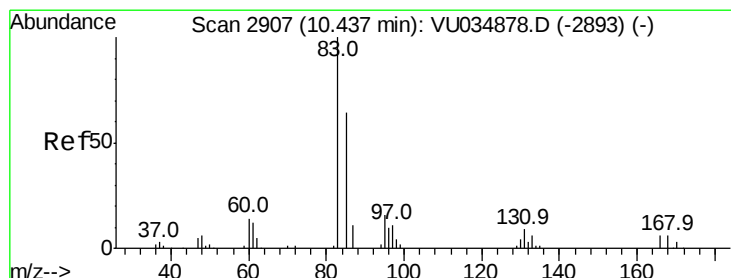
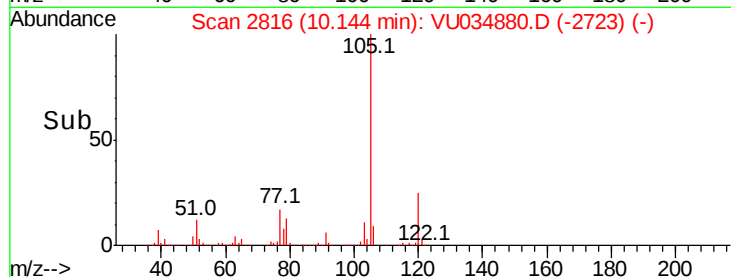
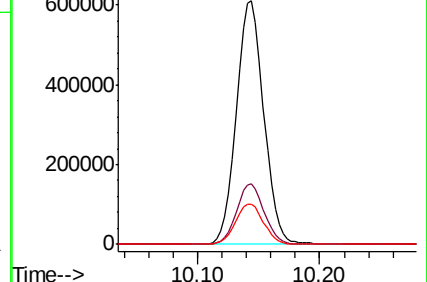
77 17.0 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 19.201 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

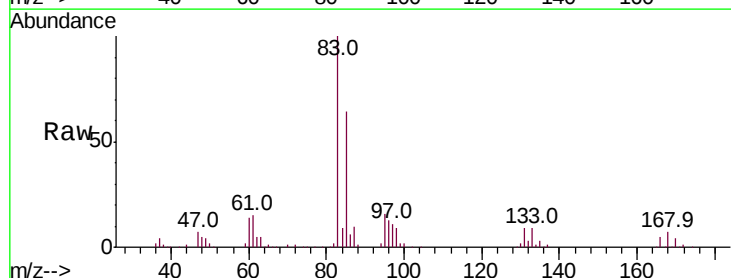
Tgt Ion: 83 Resp: 245216

Ion Ratio Lower Upper

83 100

85 64.4 45.2 84.0

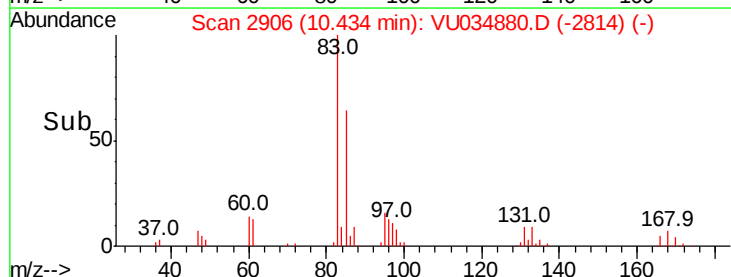
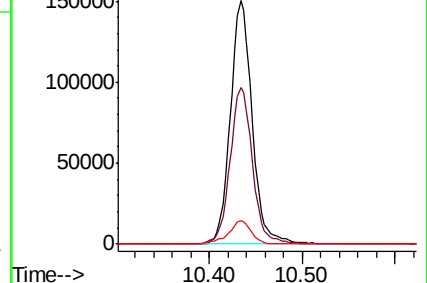
131 9.4 7.6 11.4

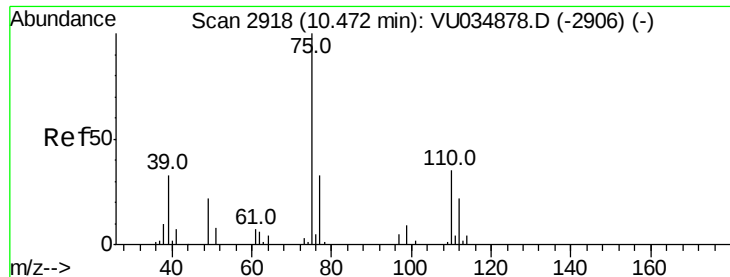


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 18.933 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

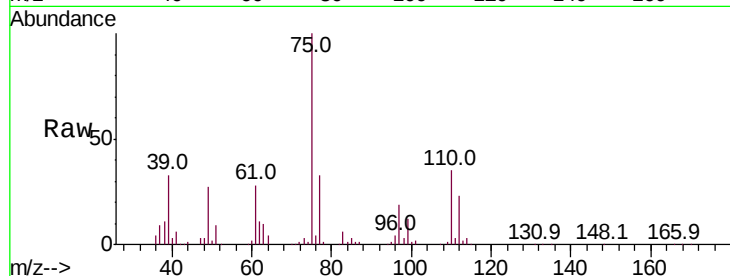
ClientSampled :

Tot Ion: 75 Resp: 168944

Ion Ratio Lower Upper

75 100

77 32.0 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU034880.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU034880.D (-2906) (-)

10.47

120000

100000

80000

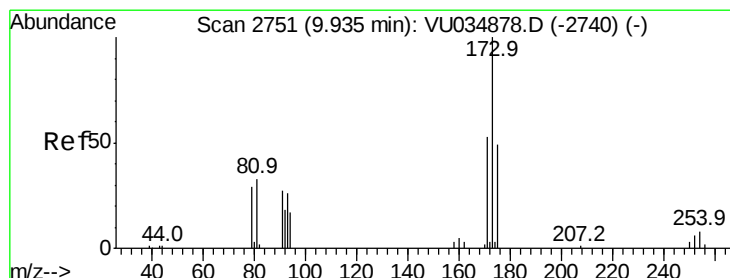
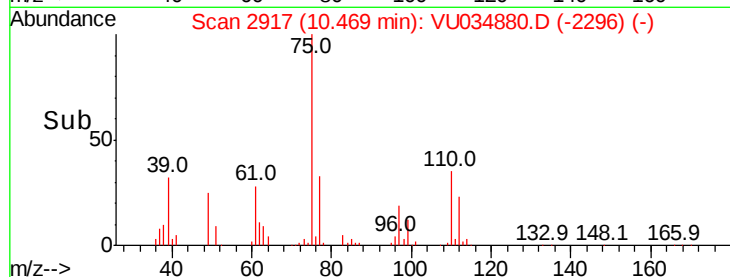
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 19.871 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

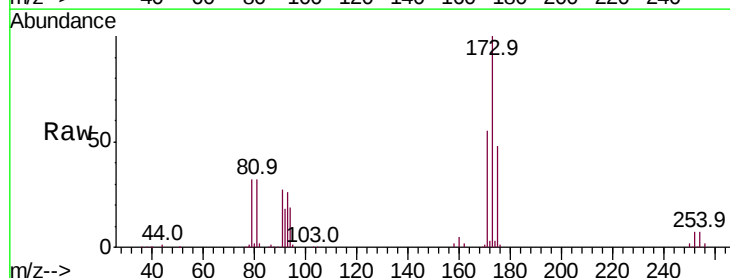
Tgt Ion:173 Resp: 111476

Ion Ratio Lower Upper

173 100

175 48.4 39.0 58.6

254 7.1 6.1 9.1



Abundance Ion 172.90 (172.60 to 173.60): VU034880.D (-2740) (-)

Ion 174.90 (174.60 to 175.60): VU034880.D (-2740) (-)

Ion 253.75 (253.45 to 254.45): VU034880.D (-2740) (-)

9.94

80000

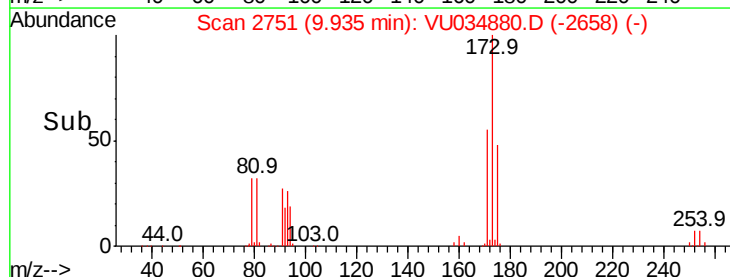
60000

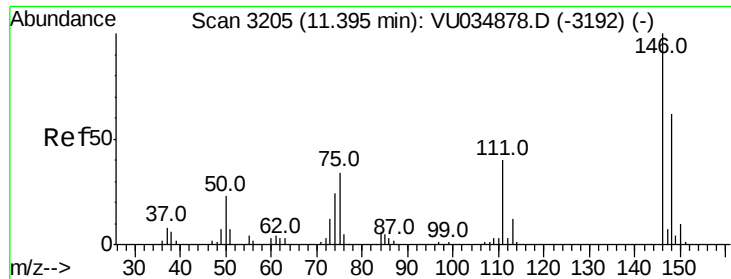
40000

20000

0

Time-->

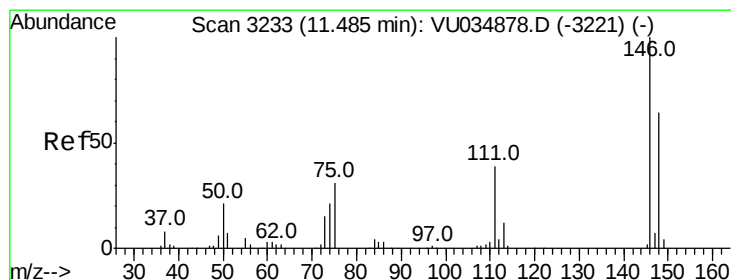
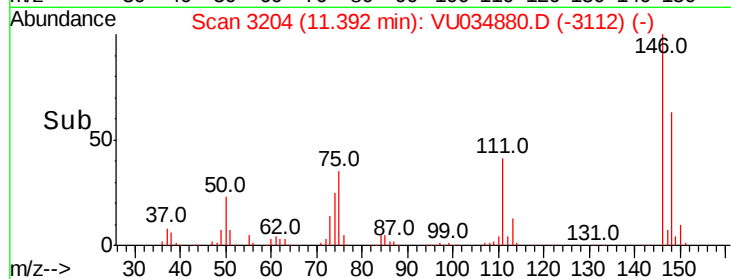
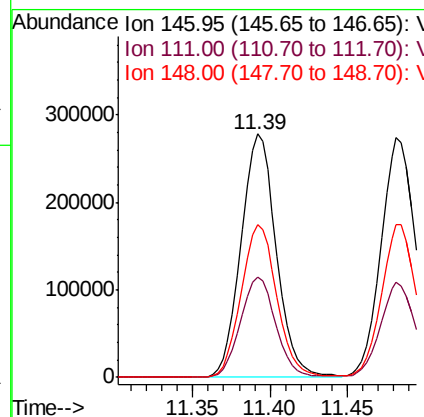
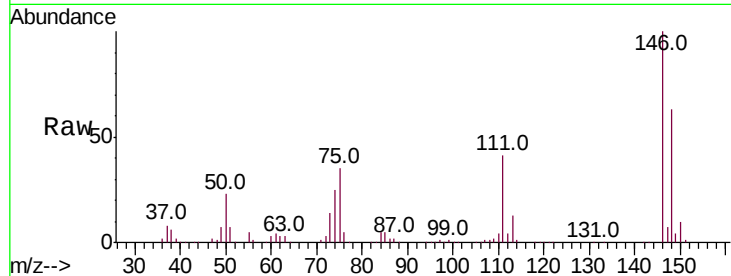




#62
 1,3-Dichlorobenzene
 Concen: 17.828 ug/L
 RT: 11.39 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

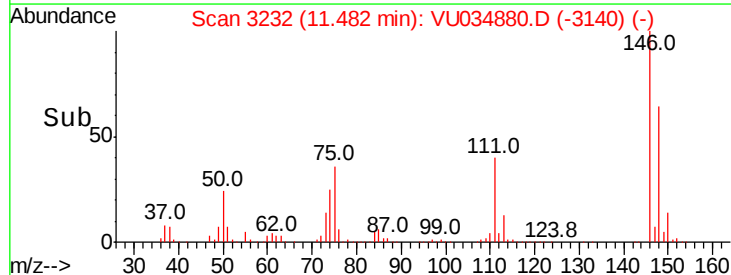
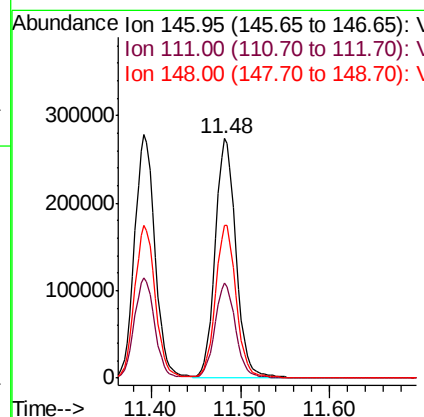
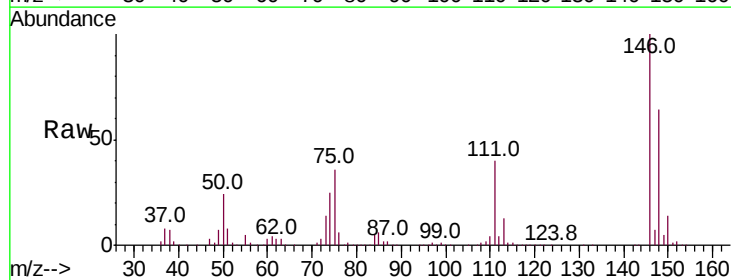
Instrument :
 MSVOA_U
 ClientSampleId :

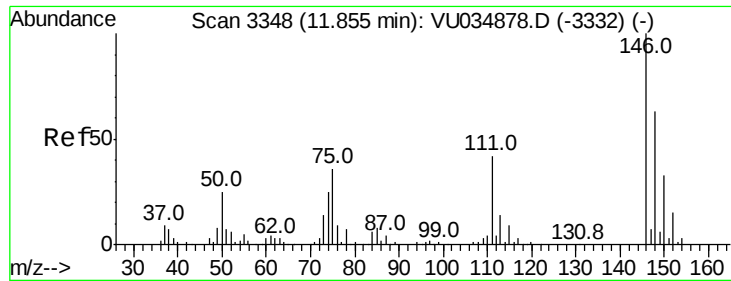
Tot Ion:146 Resp: 440401
 Ion Ratio Lower Upper
 146 100
 111 41.0 27.7 51.5
 148 62.5 43.3 80.3



#63
 1,4-Dichlorobenzene
 Concen: 18.009 ug/L
 RT: 11.48 min Scan# 3232
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion:146 Resp: 442292
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.4 50.8
 148 63.9 44.6 82.8





#65

1,2-Dichlorobenzene

Concen: 18.091 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

ClientSampleId :

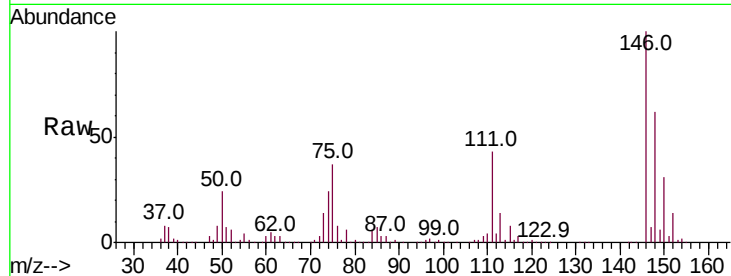
Tot Ion:146 Resp: 442154

Ion Ratio Lower Upper

146 100

111 42.9 33.4 50.2

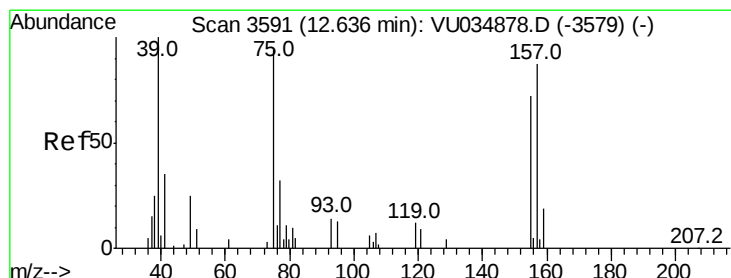
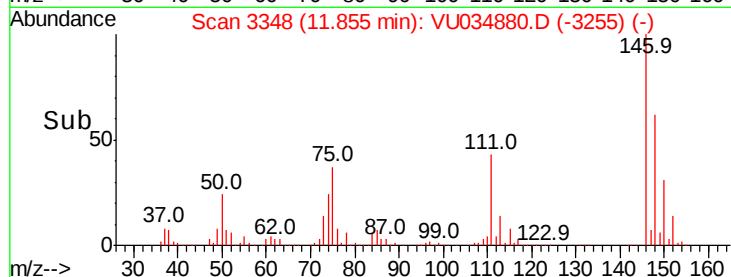
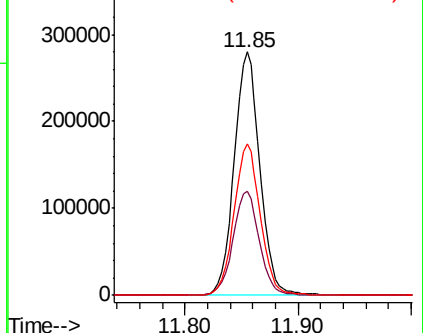
148 62.1 50.0 75.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 18.319 ug/L

RT: 12.63 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

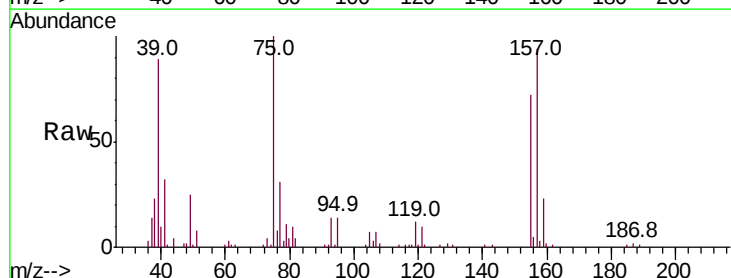
Tgt Ion: 75 Resp: 39198

Ion Ratio Lower Upper

75 100

155 71.7 61.1 91.7

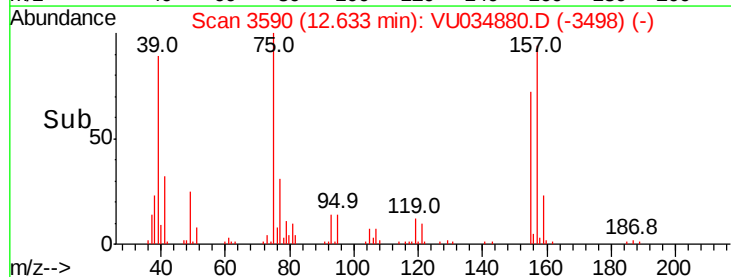
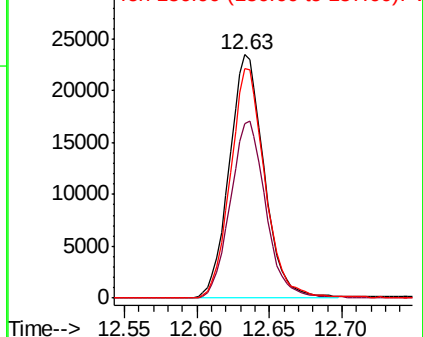
157 94.3 73.8 110.8

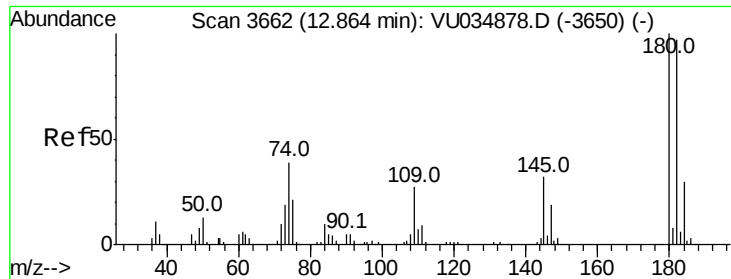


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

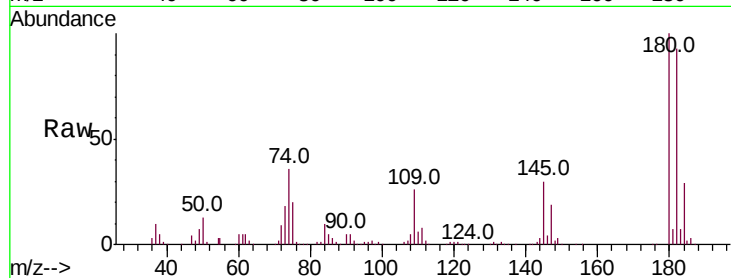




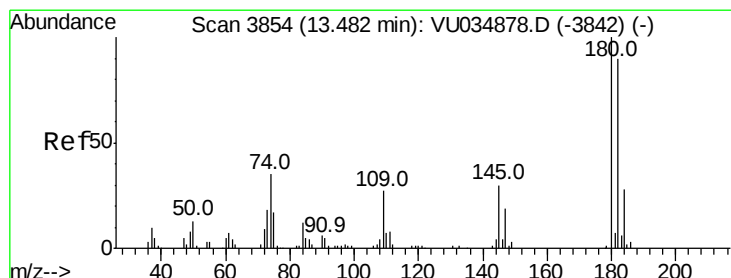
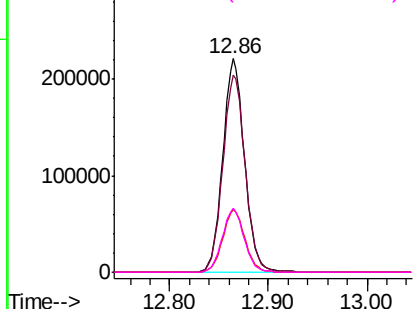
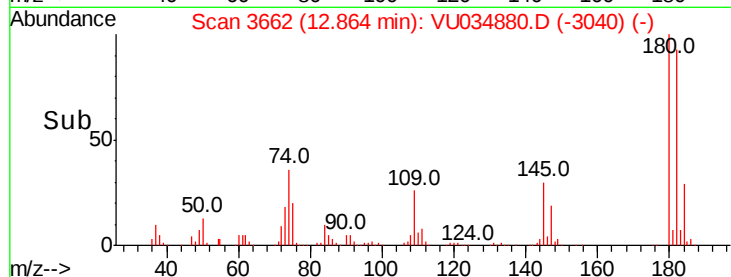
#67
 1,3,5-Trichlorobenzene
 Concen: 20.793 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 343494
 Ion Ratio Lower Upper
 180 100
 182 94.7 77.0 115.4
 184 29.7 24.4 36.6
 145 30.2 25.0 37.6

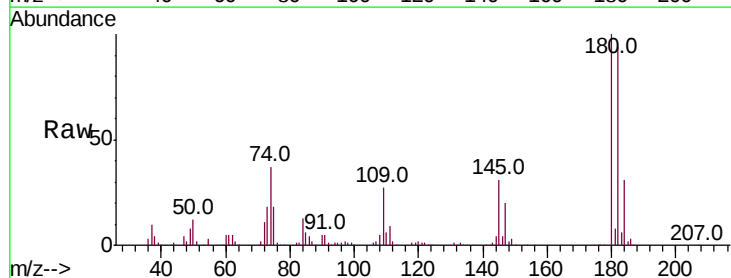


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

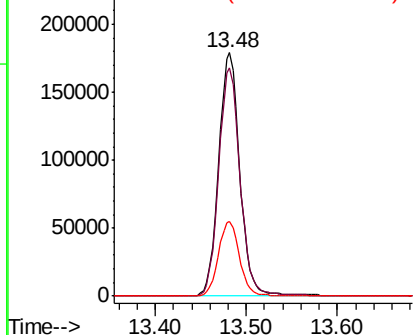
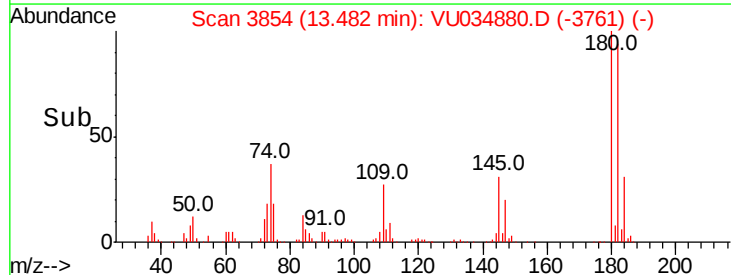


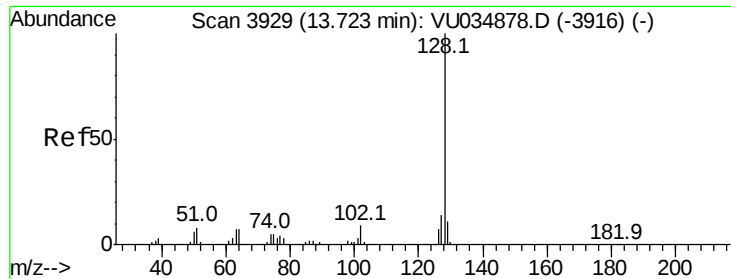
#68
 1,2,4-trichlorobenzene
 Concen: 22.124 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034880.D
 Acq: 30 Sep 2019 14:30

Tgt Ion:180 Resp: 289590
 Ion Ratio Lower Upper
 180 100
 182 94.7 74.3 111.5
 145 30.6 24.0 36.0



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





#69

Naphthalene

Concen: 17.965 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

Instrument :

MSVOA_U

ClientSampleId :

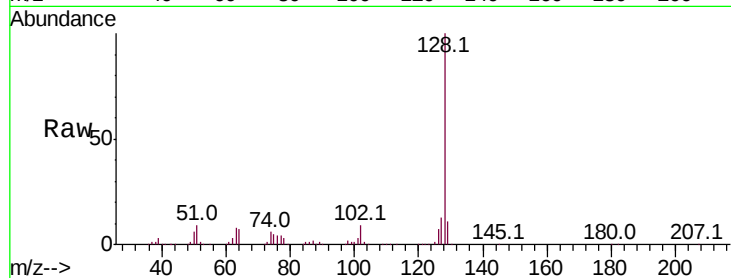
Tot Ion:128 Resp: 550112

Ion Ratio Lower Upper

128 100

129 10.7 8.5 12.7

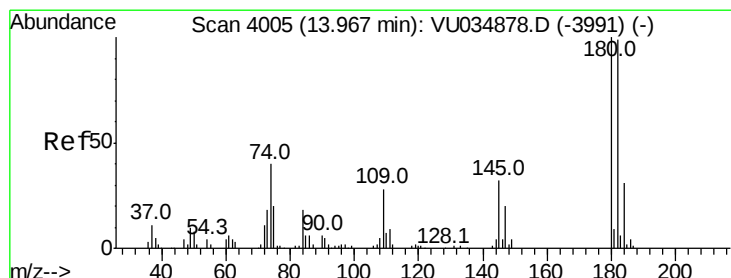
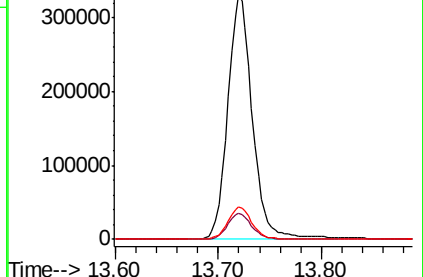
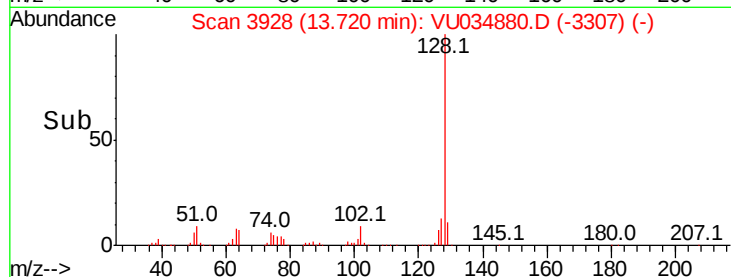
127 13.0 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 22.165 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034880.D

Acq: 30 Sep 2019 14:30

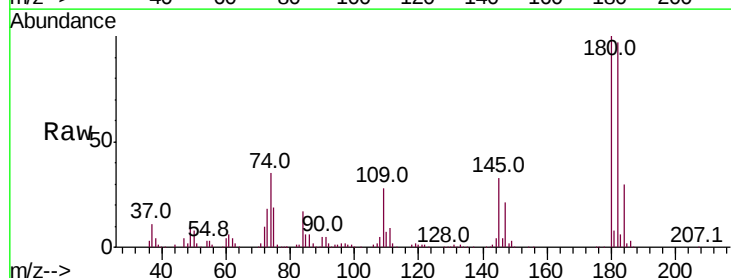
Tgt Ion:180 Resp: 274478

Ion Ratio Lower Upper

180 100

182 95.3 78.2 117.2

145 32.6 25.4 38.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

