

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093019\
 Data File : VU034881.D
 Acq On : 30 Sep 2019 15:04
 Operator : JC/SP
 Sample : VSTDICV005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 30 17:14:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 30 17:11:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	165954	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	165472	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	79646	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	60532	5.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.00%
7) Chloroethane-d5	1.67	69	47665	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.26	63	101404	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.60%
20) 2-Butanone-d5	4.16	46	188826	56.45	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.90%
24) Chloroform-d	4.62	84	105695	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.40%
26) 1,2-Dichloroethane-d4	5.29	65	62968	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	5.31	84	200567	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
36) 1,2-Dichloropropane-d6	6.31	67	66085	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.54	98	192728	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
43) trans-1,3-Dichloropropene-	7.83	79	26301	5.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	104.80%
46) 2-Hexanone-d5	8.29	63	136351	55.11	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.22%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	56739	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	11.84	152	67939	5.14	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	48465	4.994	ug/L	96
3) Chloromethane	1.32	50	41474	5.175	ug/L	99
5) Vinyl chloride	1.40	62	43754	5.045	ug/L	100
6) Bromomethane	1.62	94	21284	5.033	ug/L	96
8) Chloroethane	1.69	64	24655	4.991	ug/L	93
9) Trichlorofluoromethane	1.88	101	61879	5.221	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	35880	4.872	ug/L	95
12) 1,1-Dichloroethene	2.27	96	27839	4.997	ug/L	95
13) Acetone	2.31	43	132651	54.185	ug/L	98
14) Carbon disulfide	2.46	76	45701	4.933	ug/L	99
15) Methyl Acetate	2.60	43	28329	5.513	ug/L	98
16) Methylene chloride	2.68	84	40018	4.553	ug/L	95
17) Methyl tert-butyl Ether	2.98	73	128987	5.245	ug/L	98
18) trans-1,2-Dichloroethene	2.96	96	28883	5.045	ug/L	96
19) 1,1-Dichloroethane	3.42	63	87433	4.935	ug/L	98
21) 2-Butanone	4.25	43	206861	56.118	ug/L	95
22) cis-1,2-Dichloroethene	4.20	96	46053	5.249	ug/L	90

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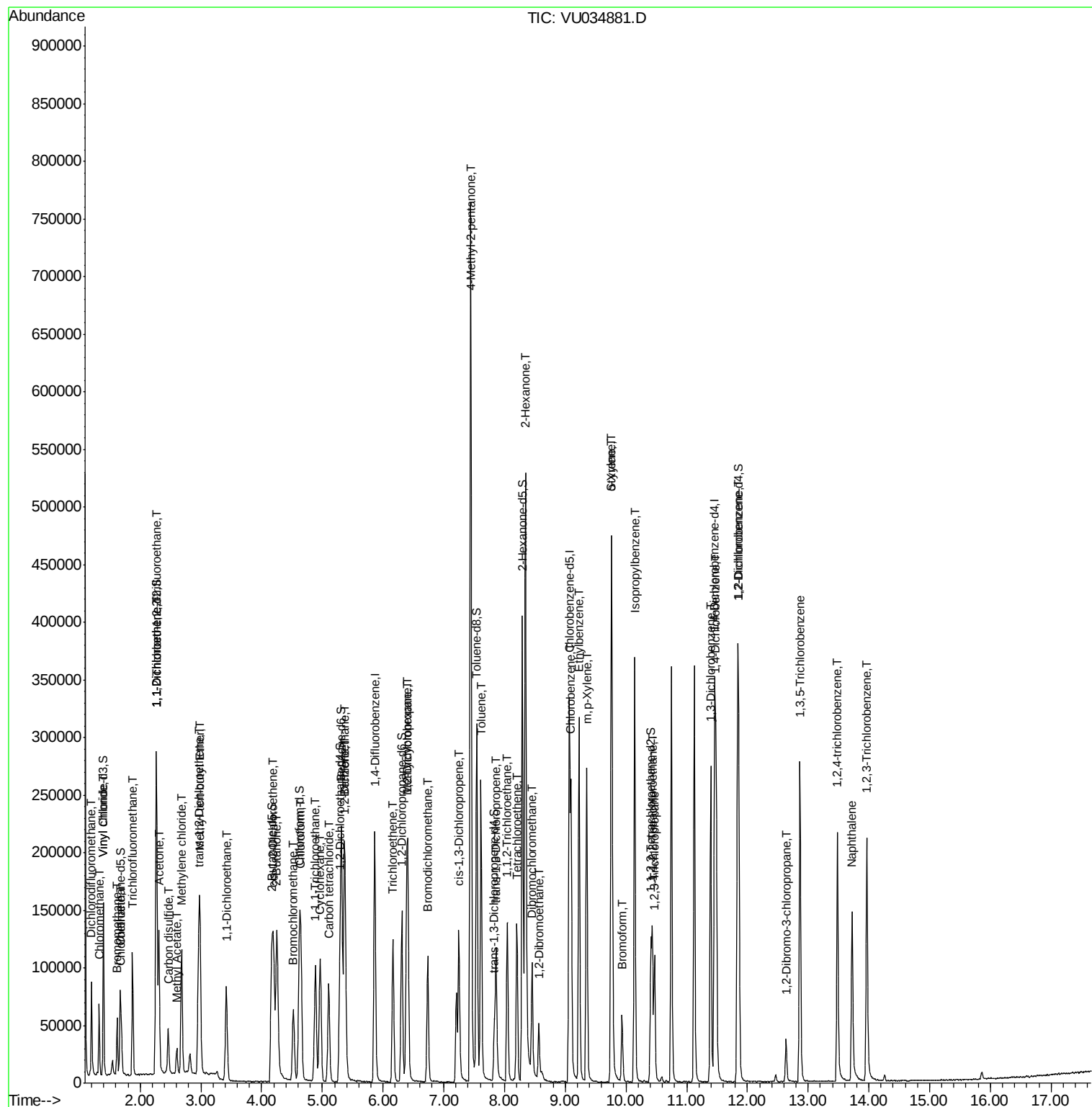
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	18838	5.262	ug/L	96
25) Chloroform	4.65	83	97226	4.560	ug/L	99
27) 1,2-Dichloroethane	5.38	62	64373	5.126	ug/L	99
29) 1,1,1-Trichloroethane	4.89	97	73249	4.816	ug/L	98
30) Cyclohexane	4.96	56	55188	4.873	ug/L	99
31) Carbon tetrachloride	5.11	117	57032	4.837	ug/L	98
33) Benzene	5.36	78	165424	4.978	ug/L	100
34) Trichloroethene	6.16	95	42929	4.882	ug/L	97
35) Methylcyclohexane	6.39	83	54057	4.924	ug/L	99
37) 1,2-Dichloropropane	6.41	63	55239	4.866	ug/L	100
38) Bromodichloromethane	6.74	83	69581	4.909	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	73528	5.029	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	539098	54.793	ug/L	100
42) Toluene	7.61	91	181209	4.990	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	63493	5.172	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	40321	5.043	ug/L	96
47) Tetrachloroethene	8.21	164	28612	4.914	ug/L	98
48) 2-Hexanone	8.34	43	385756	59.087	ug/L	100
49) Dibromochloromethane	8.46	129	45770	5.052	ug/L	100
50) 1,2-Dibromoethane	8.57	107	32654	5.063	ug/L	94
51) Chlorobenzene	9.10	112	120759	4.911	ug/L	98
52) Ethylbenzene	9.23	91	214644	4.968	ug/L	98
53) m,p-Xylene	9.35	106	74243	4.929	ug/L	97
54) o-Xylene	9.76	106	78627	4.931	ug/L	98
55) Styrene	9.77	104	136372	5.031	ug/L	96
56) Isopropylbenzene	10.14	105	226377	4.954	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.43	83	62197	5.301	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	42434	5.227	ug/L	100
61) Bromoform	9.94	173	24458	4.946	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	105587	5.136	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	104391	4.942	ug/L	97
65) 1,2-Dichlorobenzene	11.85	146	107569	5.101	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.64	75	9353	5.901	ug/L	95
67) 1,3,5-Trichlorobenzene	12.86	180	82516	5.471	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	66223	6.148	ug/L	99
69) Naphthalene	13.72	128	124604	6.890	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	67174	6.212	ug/L	98

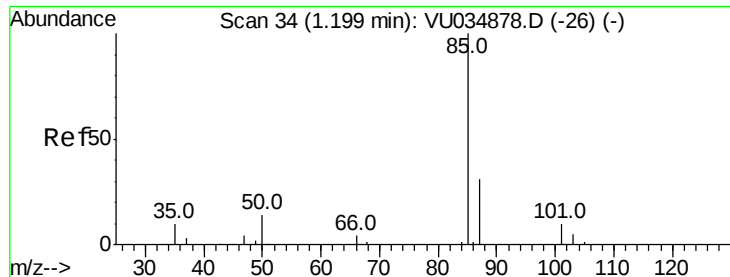
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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#2

Dichlorodifluoromethane

Concen: 4.994 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

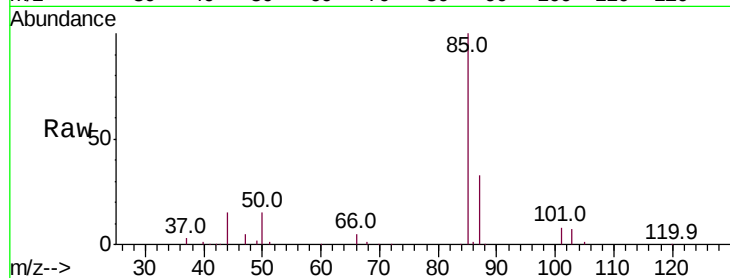
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 48465

Ion Ratio Lower Upper

85 100

87 33.3 25.0 37.6

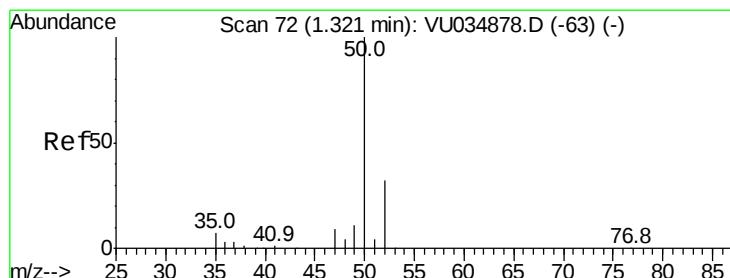
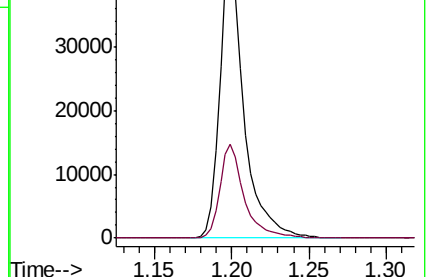
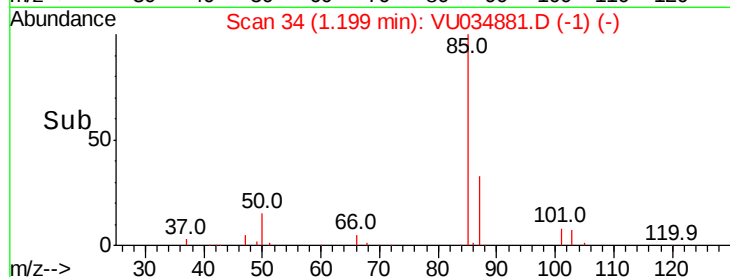


Abundance Ion 85.00 (84.70 to 85.70): VU034881.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034881.D (-26) (-)

1.20

Time-->



#3

Chloromethane

Concen: 5.175 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034881.D

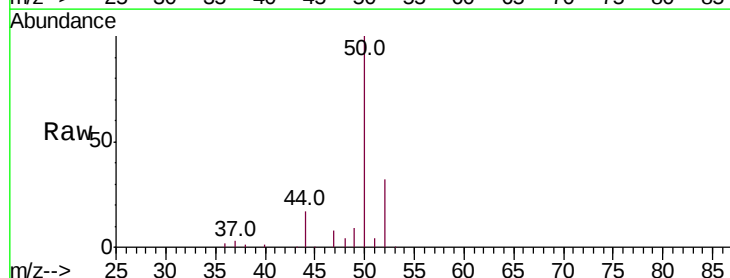
Acq: 30 Sep 2019 15:04

Tgt Ion: 50 Resp: 41474

Ion Ratio Lower Upper

50 100

52 31.8 22.7 42.1

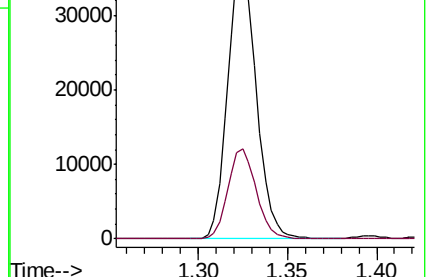
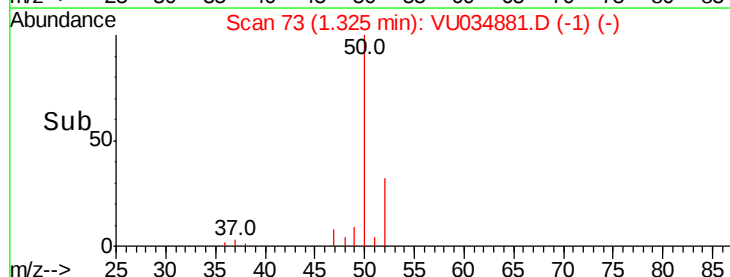


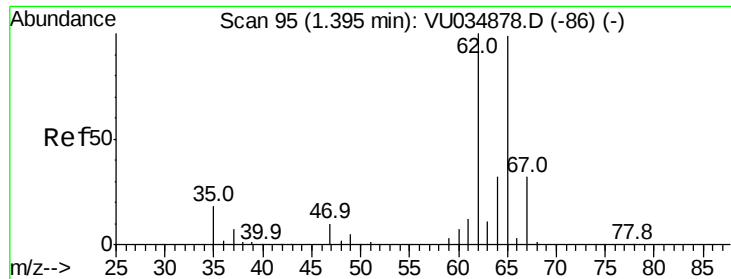
Abundance Ion 50.05 (49.75 to 50.75): VU034881.D (-63) (-)

Ion 52.05 (51.75 to 52.75): VU034881.D (-63) (-)

1.32

Time-->





#5

Vinyl chloride

Concen: 5.045 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

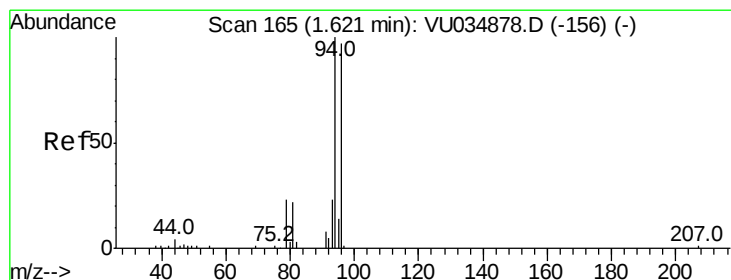
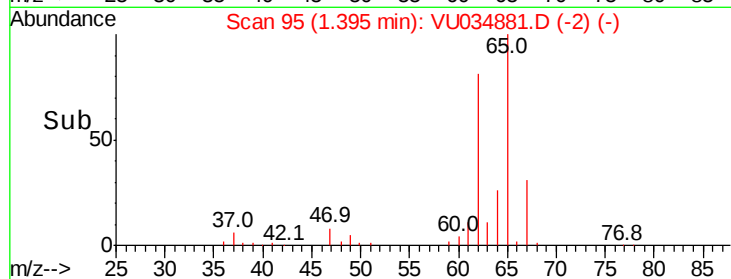
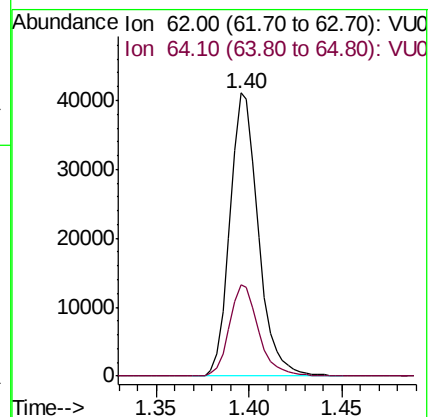
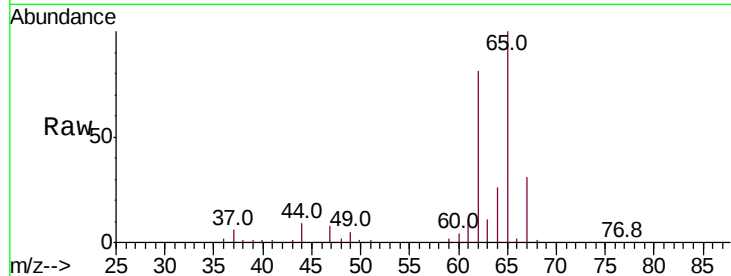
ClientSampleId :

Tot Ion: 62 Resp: 43754

Ion Ratio Lower Upper

62 100

64 32.5 22.6 42.0



#6

Bromomethane

Concen: 5.033 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU034881.D

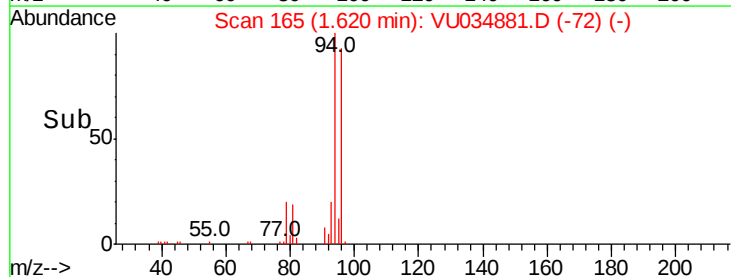
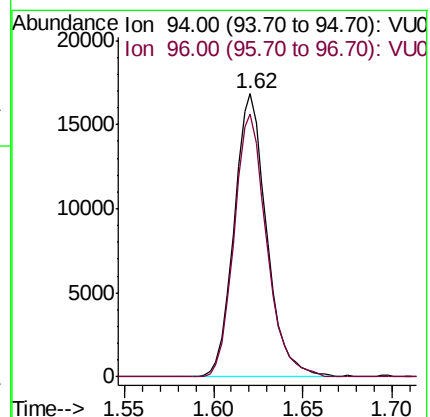
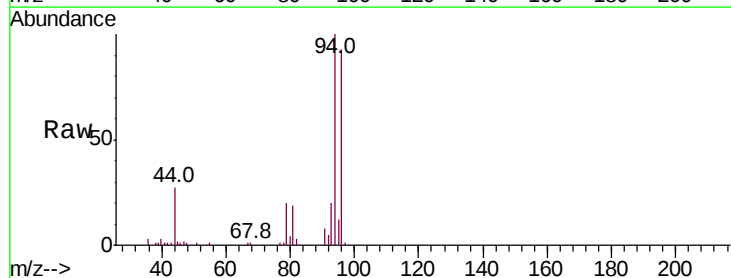
Acq: 30 Sep 2019 15:04

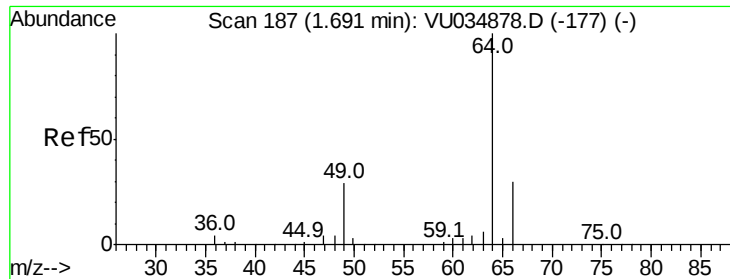
Tgt Ion: 94 Resp: 21284

Ion Ratio Lower Upper

94 100

96 93.0 67.7 125.7

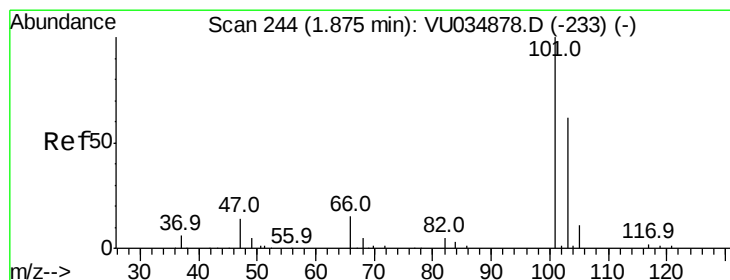
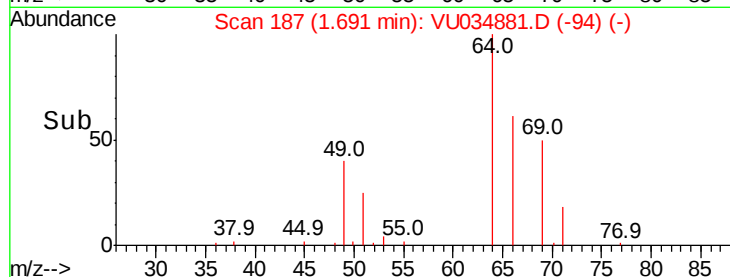
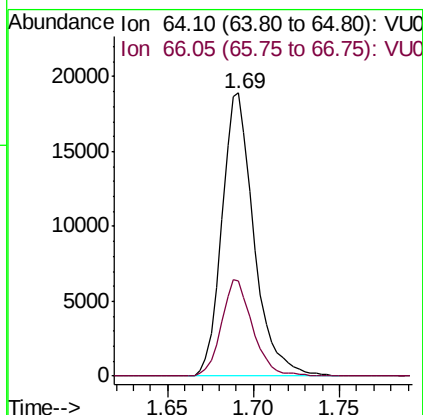
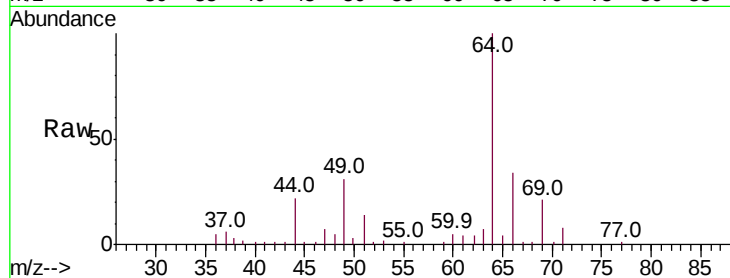




#8
Chloroethane
Concen: 4.991 ug/L
RT: 1.69 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

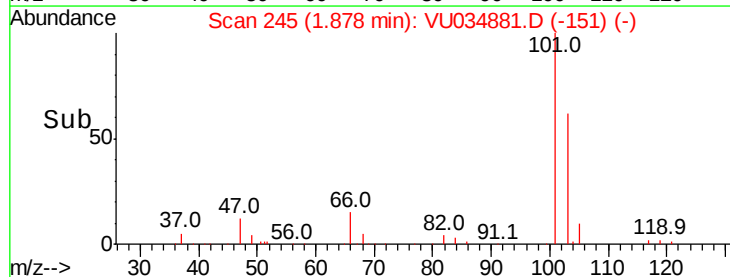
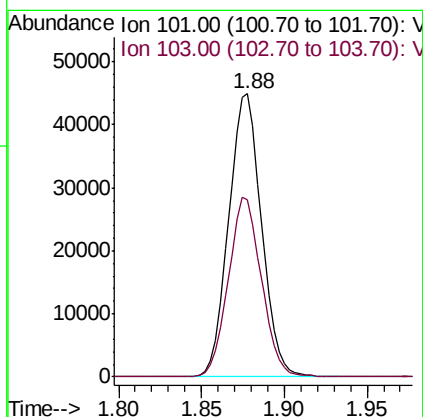
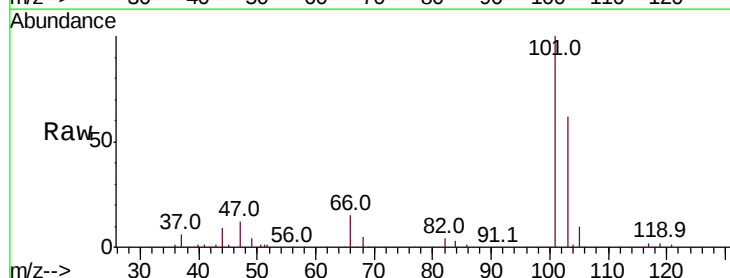
Instrument :
MSVOA_U
ClientSampled :

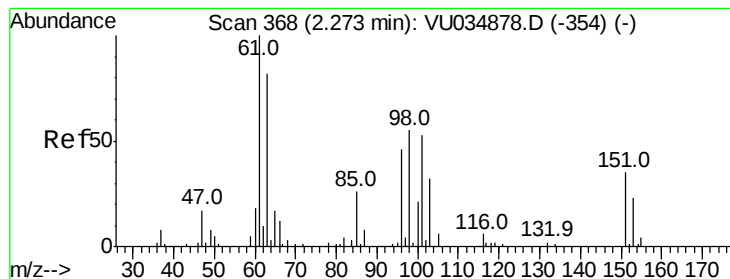
Tot Ion: 64 Resp: 24655
Ion Ratio Lower Upper
64 100
66 33.5 20.9 38.9



#9
Trichlorofluoromethane
Concen: 5.221 ug/L
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Tgt Ion:101 Resp: 61879
Ion Ratio Lower Upper
101 100
103 63.9 50.3 75.5





#10

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

Concen: 4.872 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

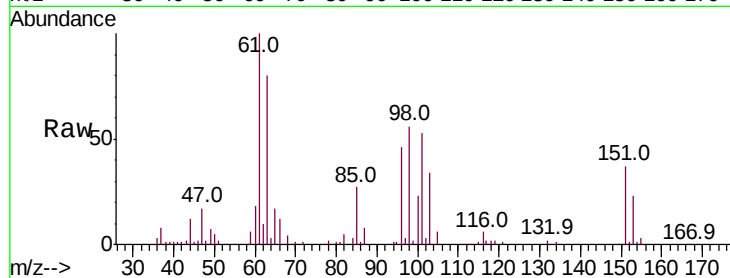
Tot Ion:101 Resp: 35880

Ion Ratio Lower Upper

101 100

85 49.9 37.3 55.9

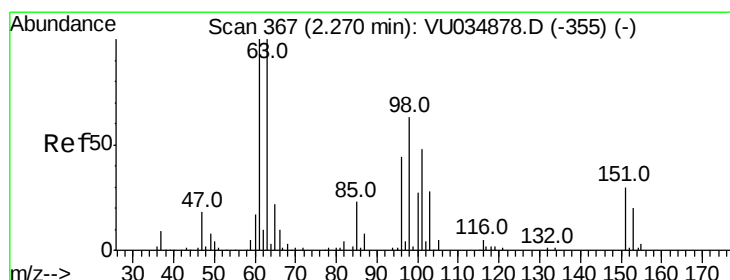
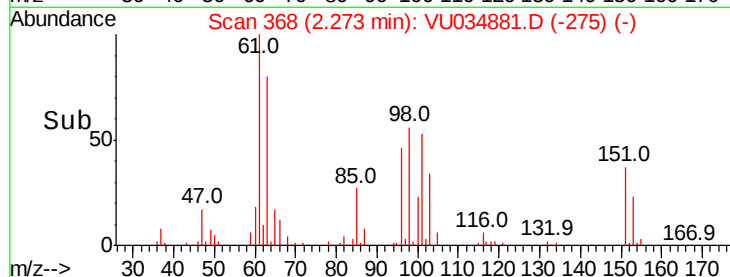
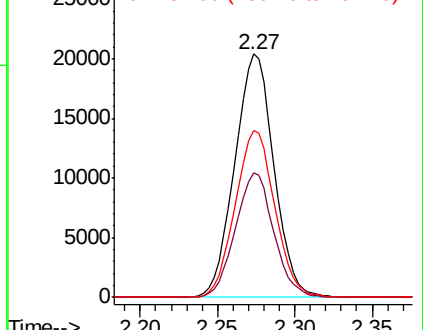
151 69.1 52.6 78.8



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: 4.997 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

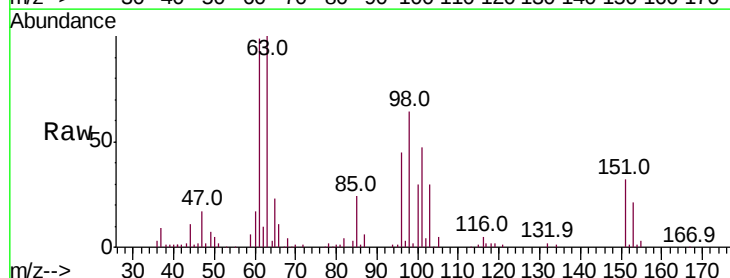
Tgt Ion: 96 Resp: 27839

Ion Ratio Lower Upper

96 100

61 222.1 160.5 298.1

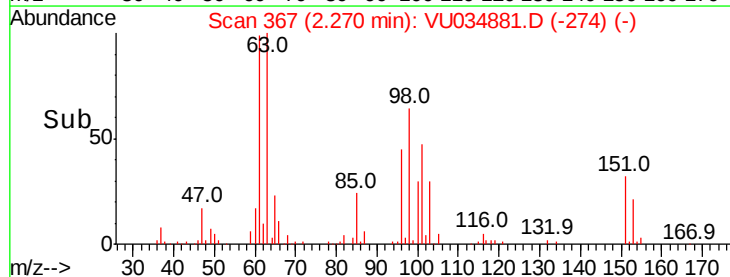
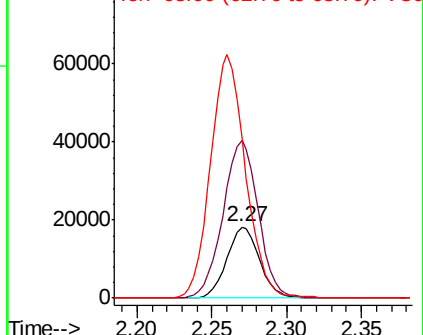
63 224.1 162.3 301.5

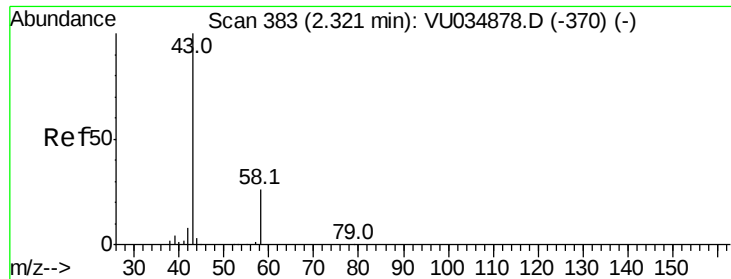


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 54.185 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

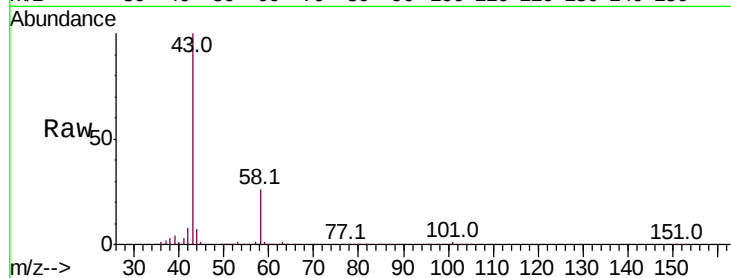
ClientSampleId :

Tot Ion: 43 Resp: 132651

Ion Ratio Lower Upper

43 100

58 25.9 0.0 54.0



Abundance Ion 43.05 (42.75 to 43.75): VU034881.D (-370) (-)

Ion 58.05 (57.75 to 58.75): VU034881.D (-370) (-)

2.31

80000

60000

40000

20000

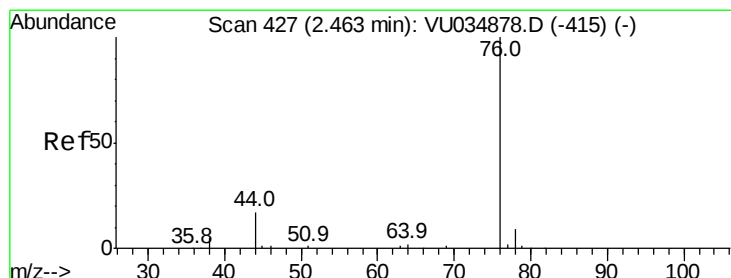
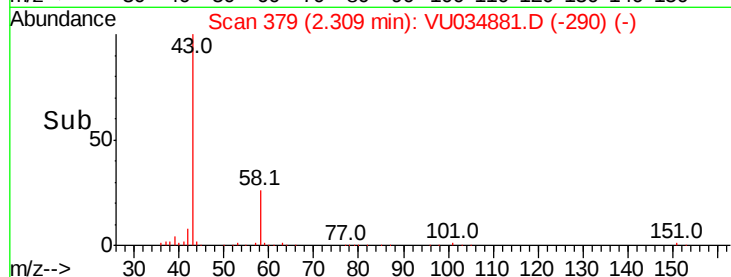
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Time-->

2.20

2.30

2.40



#14

Carbon disulfide

Concen: 4.933 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034881.D

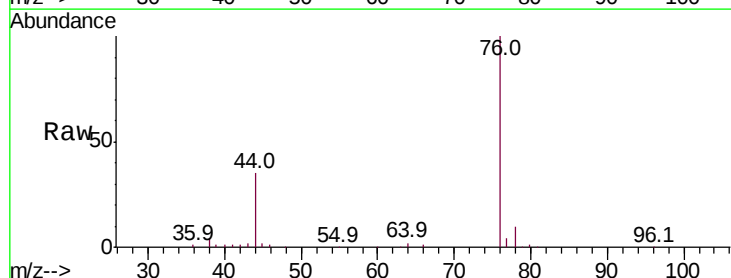
Acq: 30 Sep 2019 15:04

Tgt Ion: 76 Resp: 45701

Ion Ratio Lower Upper

76 100

78 9.6 7.9 11.9



Abundance Ion 76.05 (75.75 to 76.75): VU034881.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU034881.D (-415) (-)

2.46

30000

25000

20000

15000

10000

5000

0

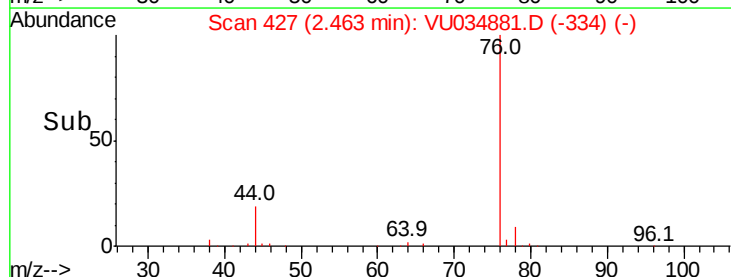
Time-->

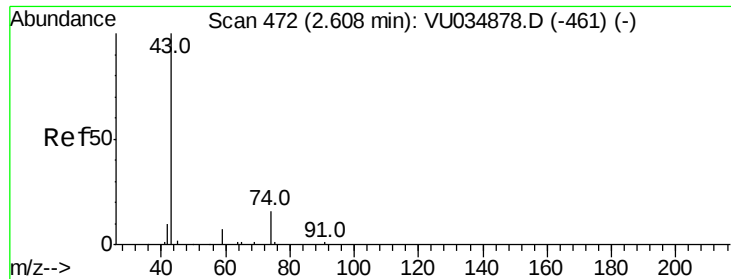
2.40

2.45

2.50

2.55





#15

Methvl Acetate

Concen: 5.513 ug/L

RT: 2.60 min Scan# 471

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

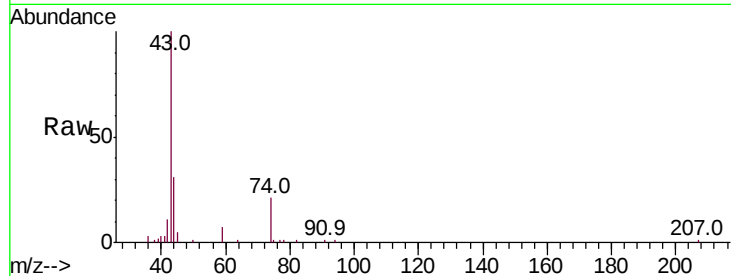
ClientSampleId :

Tot Ion: 43 Resp: 28329

Ion Ratio Lower Upper

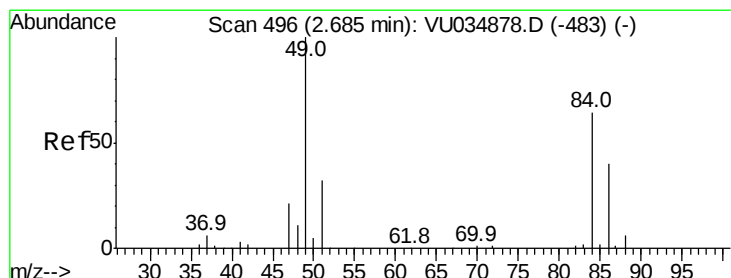
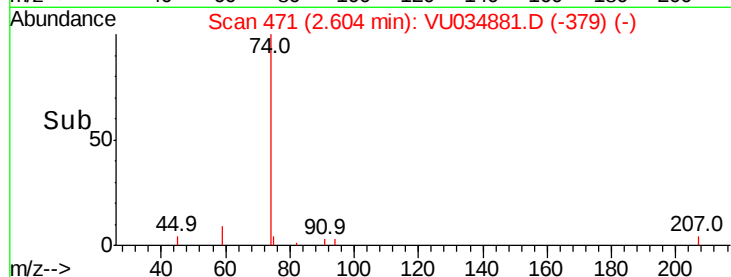
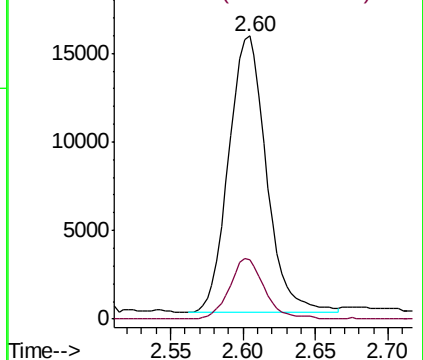
43 100

74 20.2 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: 4.553 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

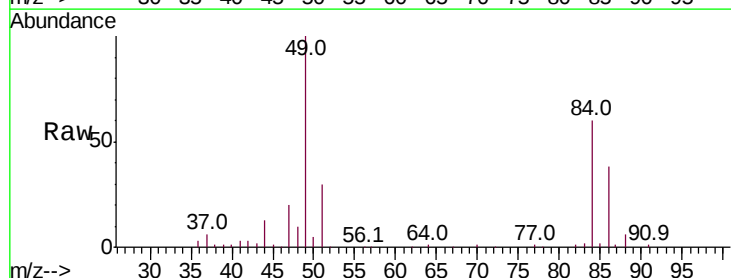
Tgt Ion: 84 Resp: 40018

Ion Ratio Lower Upper

84 100

86 63.8 44.2 82.2

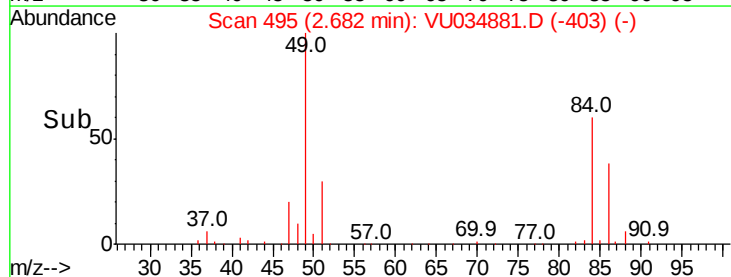
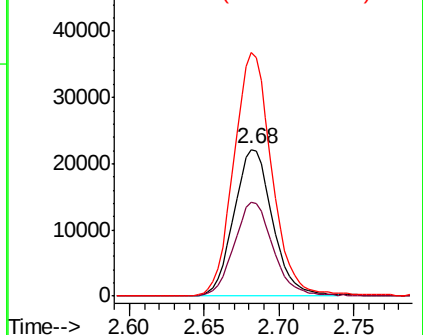
49 166.1 110.0 204.4

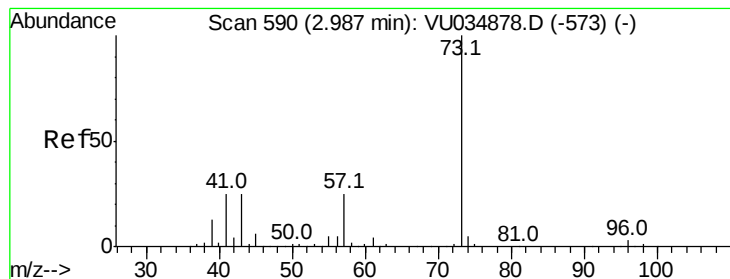


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



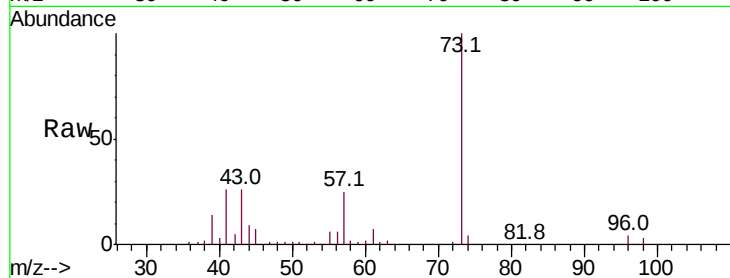


#17

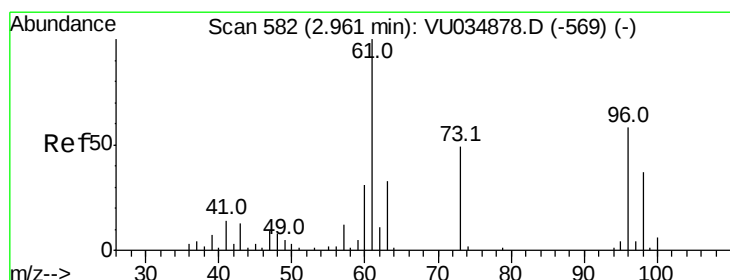
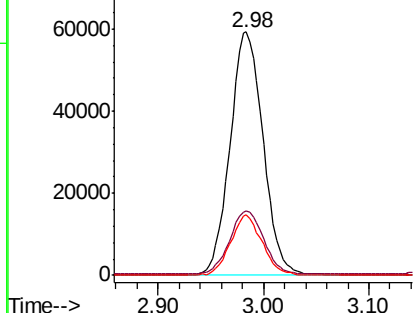
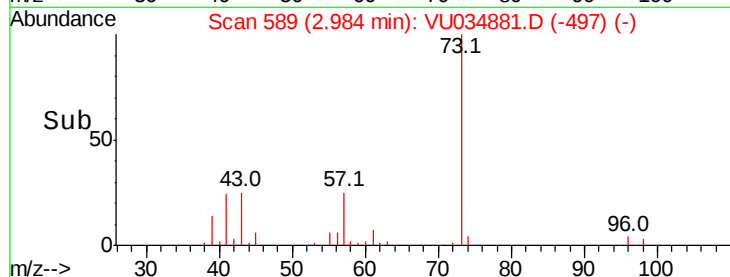
Methvl tert-butvl Ether
 Concen: 5.245 ug/L
 RT: 2.98 min Scan# 589
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 128987
 Ion Ratio Lower Upper
 73 100
 43 26.8 20.8 31.2
 57 23.8 19.8 29.6



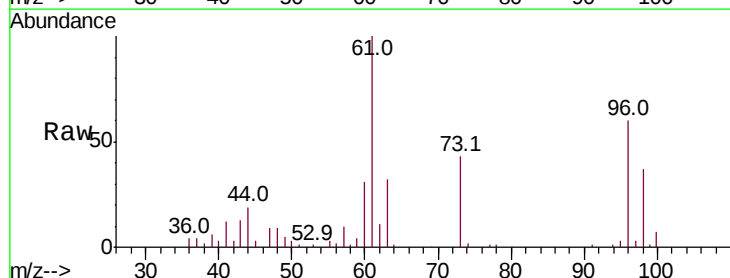
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



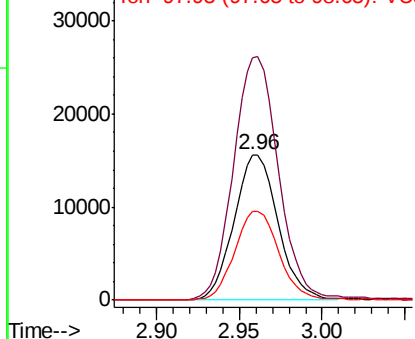
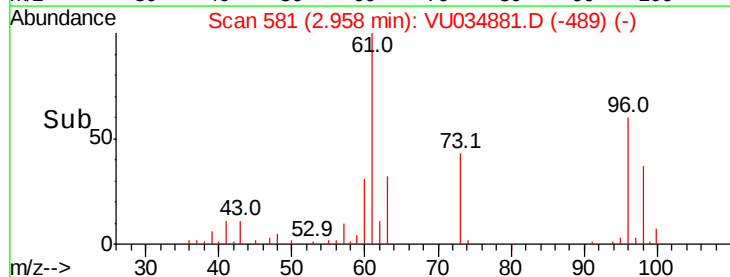
#18

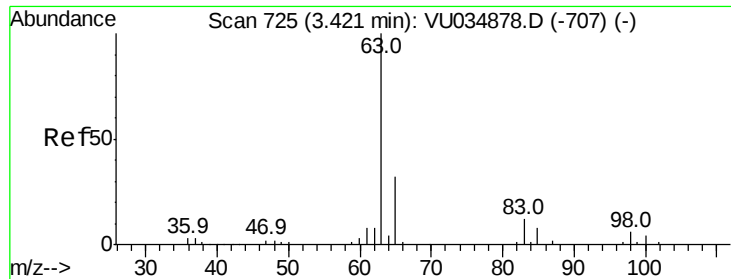
trans-1,2-Dichloroethene
 Concen: 5.045 ug/L
 RT: 2.96 min Scan# 581
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Tgt Ion: 96 Resp: 28883
 Ion Ratio Lower Upper
 96 100
 61 166.9 121.0 224.8
 98 61.0 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



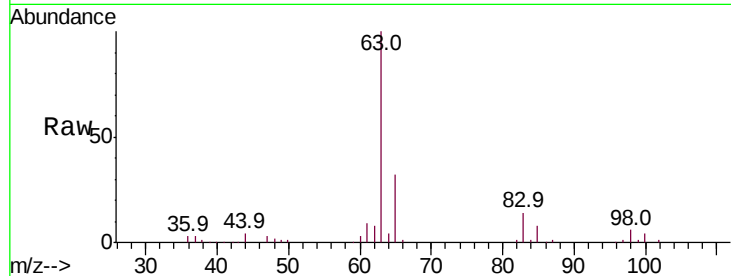


#19
 1,1-Dichloroethane
 Concen: 4.935 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

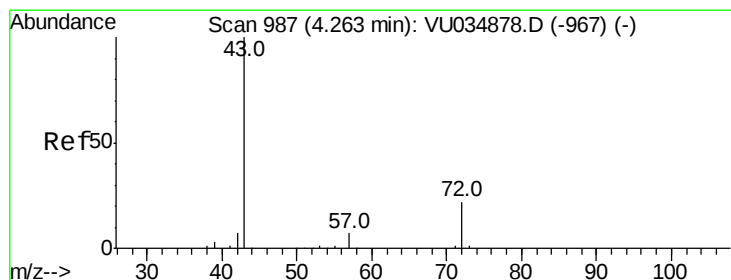
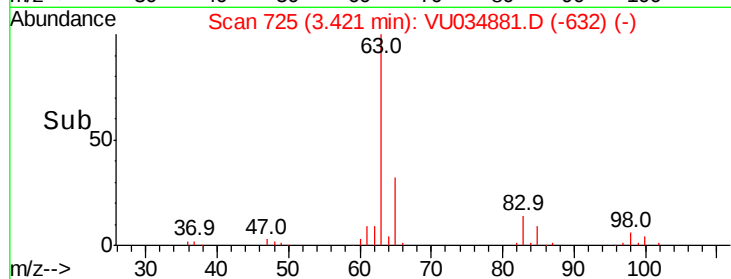
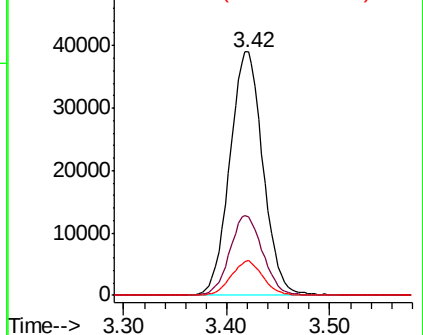
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 87433

Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.7	42.1
83	14.3	8.4	15.6



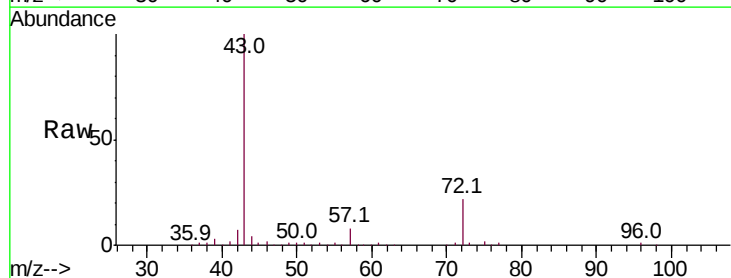
Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0



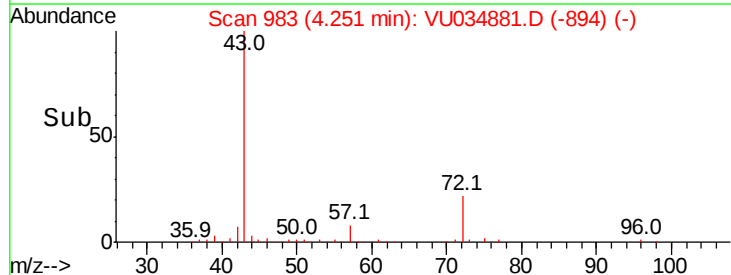
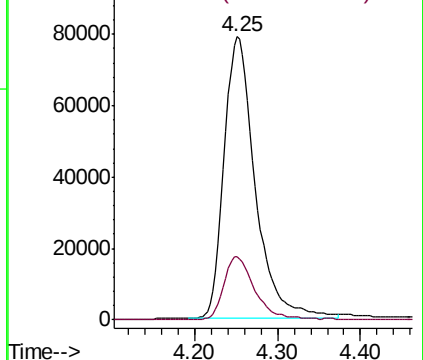
#21
 2-Butanone
 Concen: 56.118 ug/L
 RT: 4.25 min Scan# 983
 Delta R.T. -0.01 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

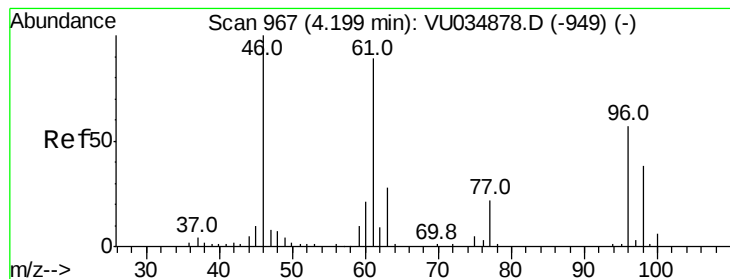
Tgt Ion: 43 Resp: 206861

Ion	Ratio	Lower	Upper
43	100		
72	22.5	10.1	30.1



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



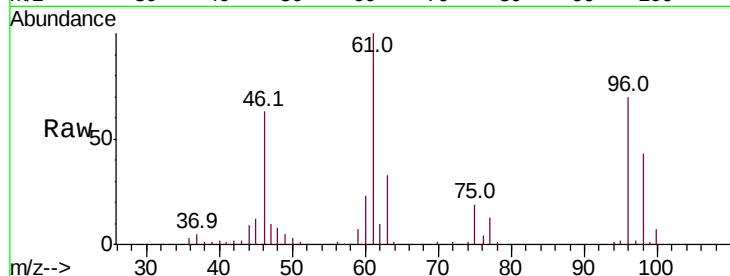


#22

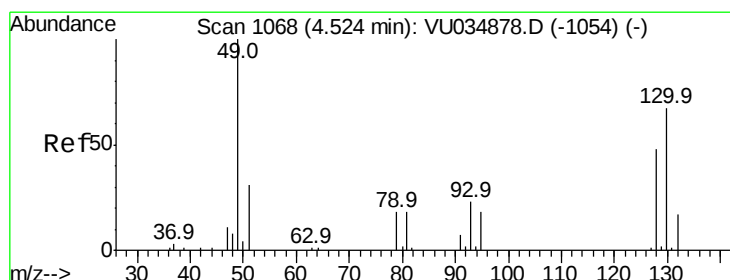
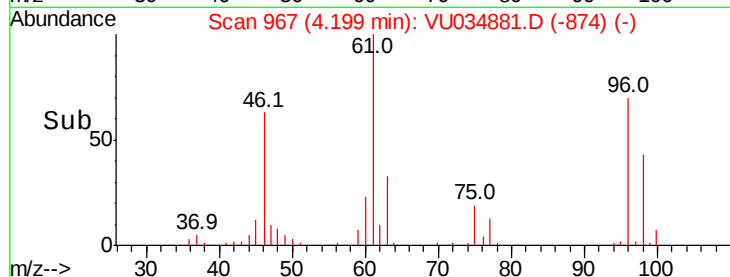
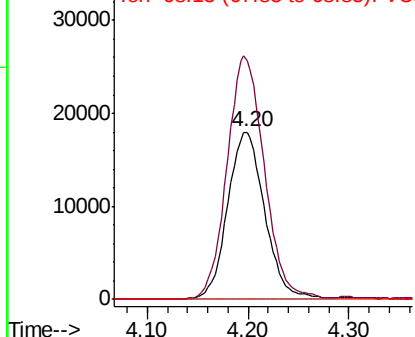
cis-1,2-Dichloroethene
Concen: 5.249 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 46053
Ion Ratio Lower Upper
96 100
61 142.4 108.6 201.8
68 0.0 0.0 0.0



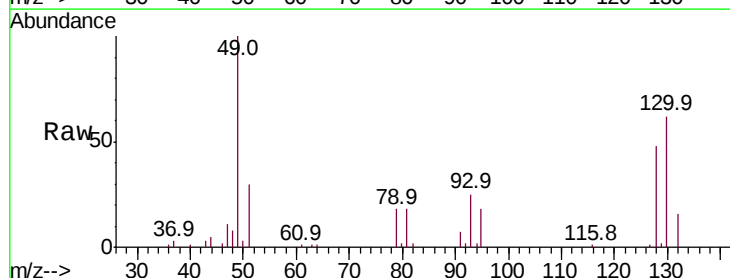
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



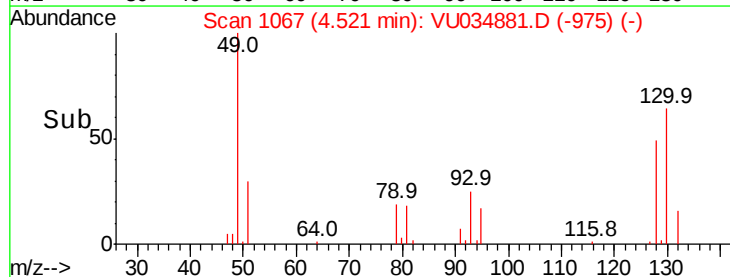
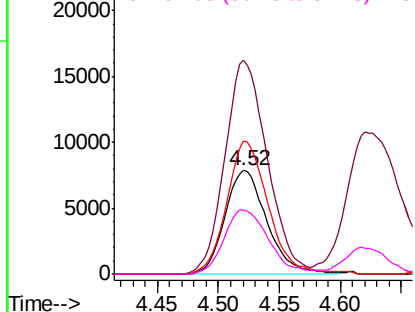
#23

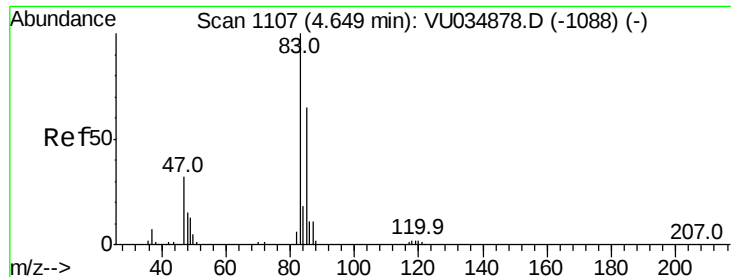
Bromochloromethane
Concen: 5.262 ug/L
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Tgt Ion:128 Resp: 18838
Ion Ratio Lower Upper
128 100
49 206.5 146.5 272.1
130 128.7 97.2 180.4
51 62.3 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

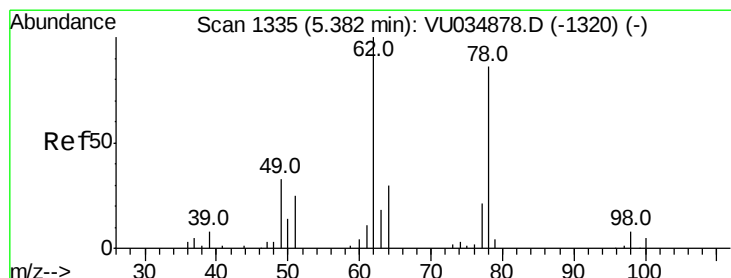
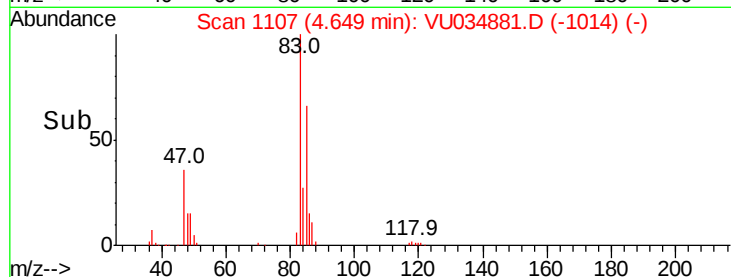
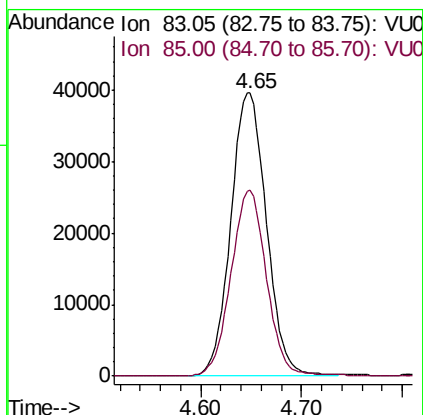
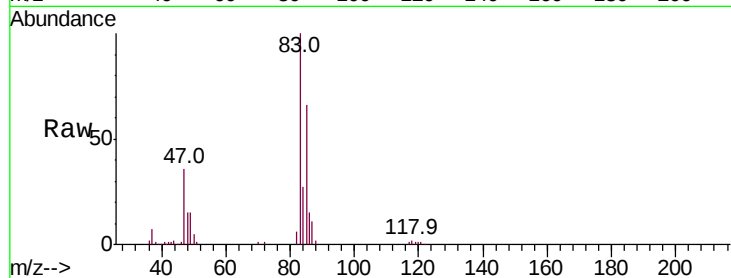




#25
Chloroform
Concen: 4.560 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

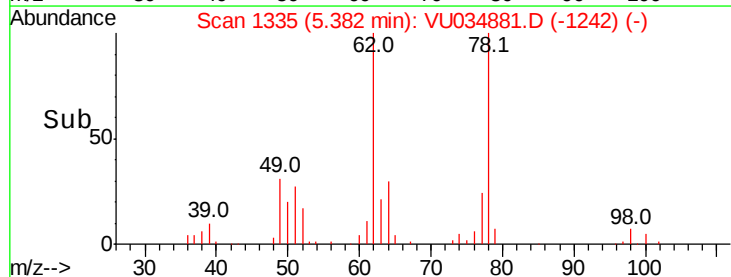
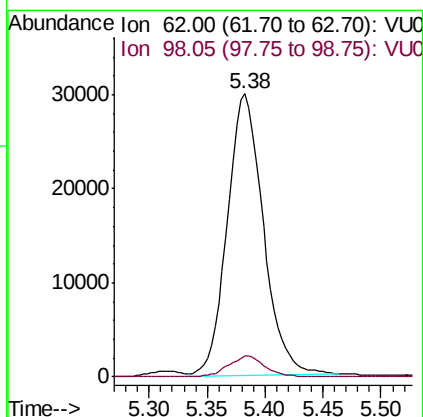
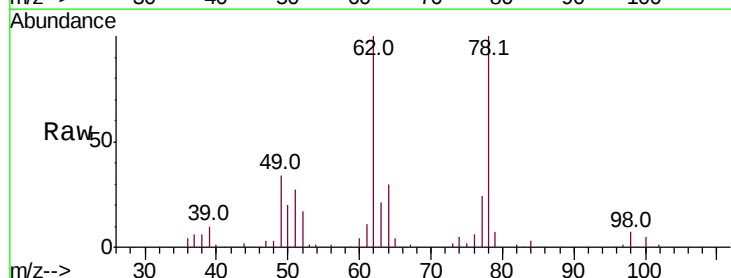
Instrument :
MSVOA_U
ClientSampled :

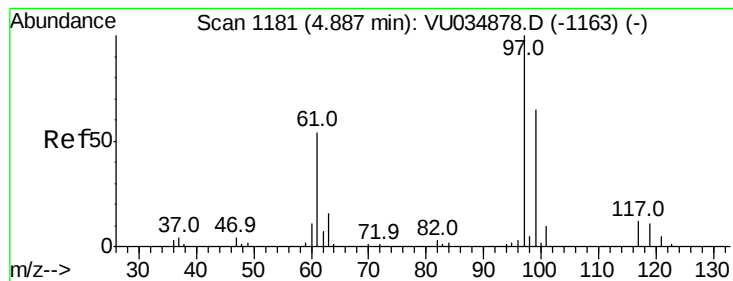
Tot Ion: 83 Resp: 97226
Ion Ratio Lower Upper
83 100
85 65.6 45.2 84.0



#27
1,2-Dichloroethane
Concen: 5.126 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Tgt Ion: 62 Resp: 64373
Ion Ratio Lower Upper
62 100
98 7.3 6.2 9.4





#29

1,1,1-Trichloroethane

Concen: 4.816 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :
MSVOA_U
ClientSampled :

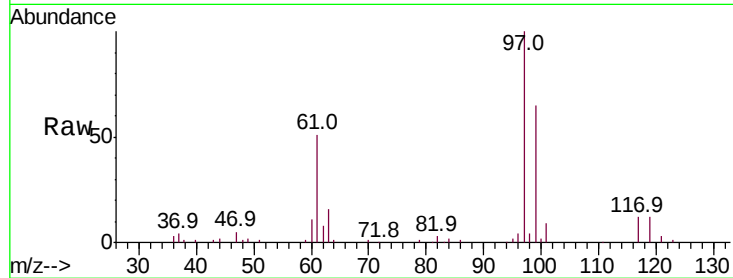
Tot Ion: 97 Resp: 73249

Ion Ratio Lower Upper

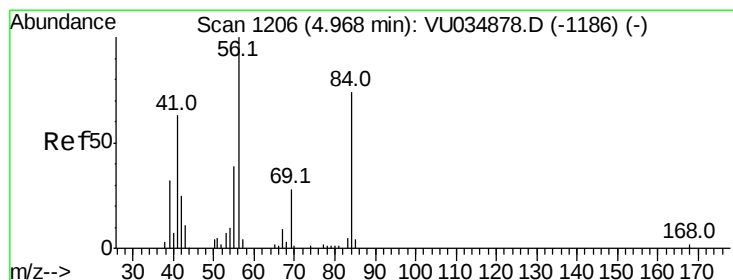
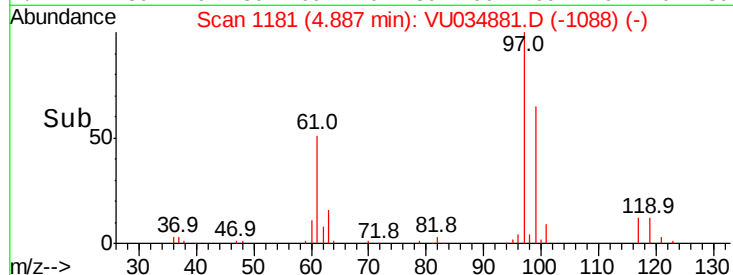
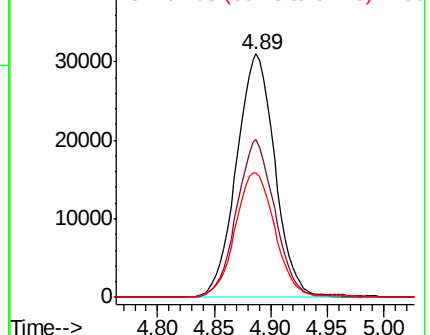
97 100

99 64.3 52.2 78.4

61 53.1 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: 4.873 ug/L

RT: 4.96 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

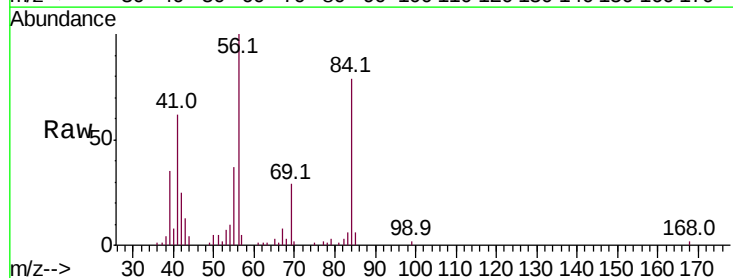
Tgt Ion: 56 Resp: 55188

Ion Ratio Lower Upper

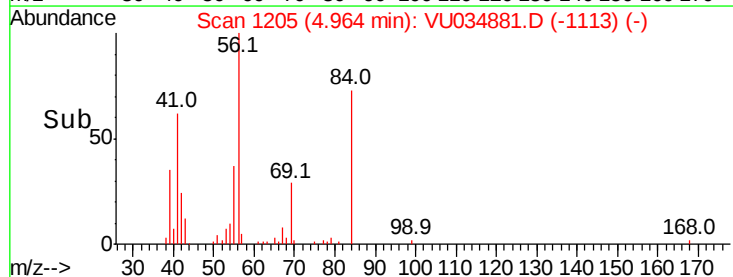
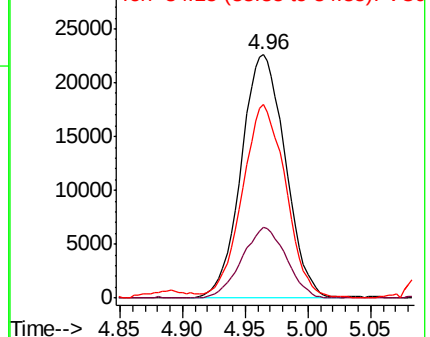
56 100

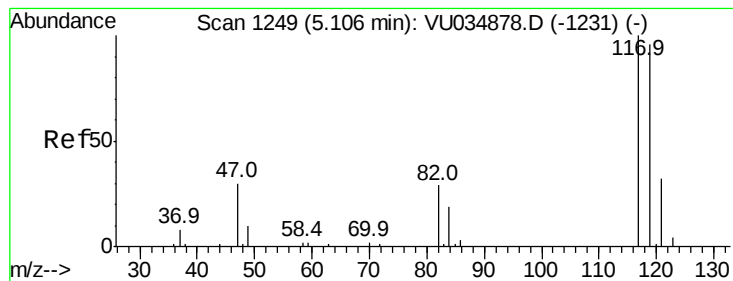
69 29.1 22.6 34.0

84 79.1 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: 4.837 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

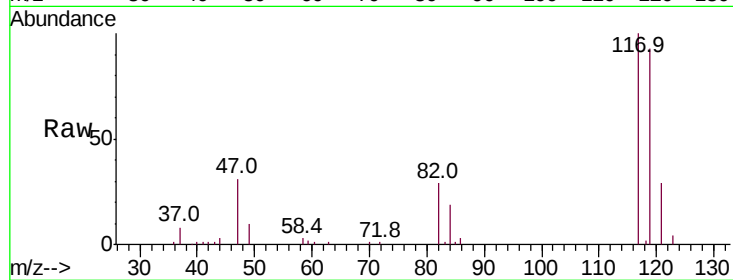
ClientSampleId :

Tot Ion:117 Resp: 57032

Ion Ratio Lower Upper

117 100

119 95.7 77.8 116.8

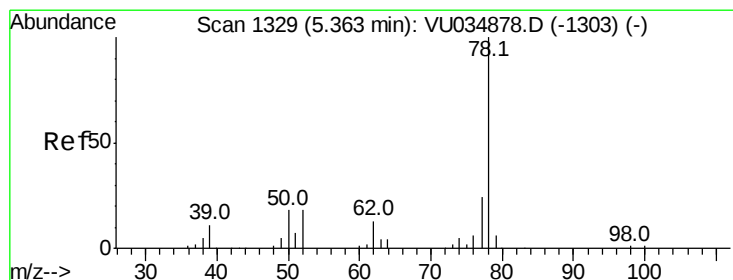
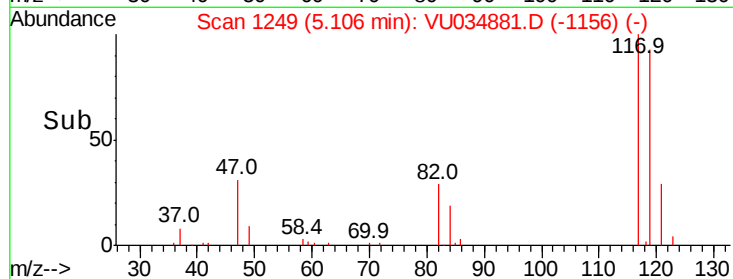


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.11

Time-->



#33

Benzene

Concen: 4.978 ug/L

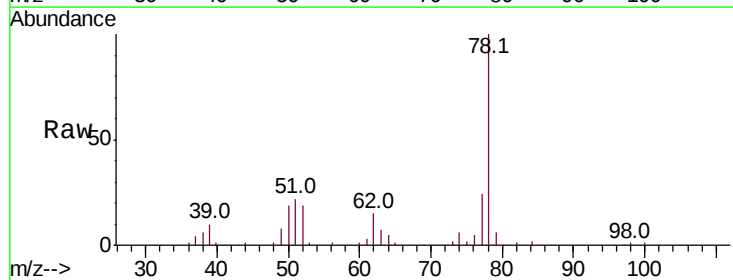
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

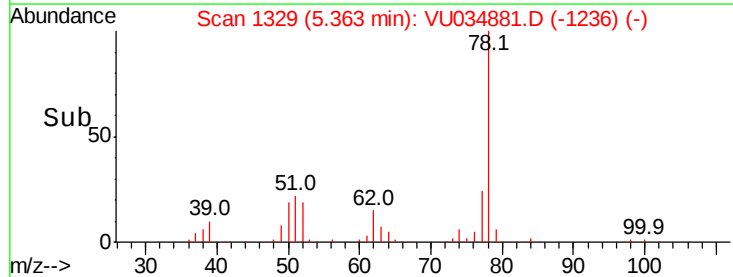
Tgt Ion: 78 Resp: 165424

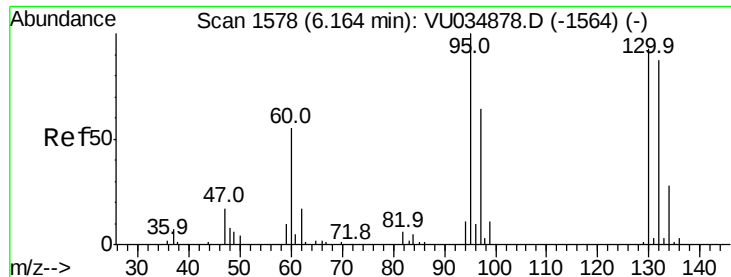


Abundance Ion 78.10 (77.80 to 78.80): VU0

5.36

Time-->





#34

Trichloroethene

Concen: 4.882 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 42929

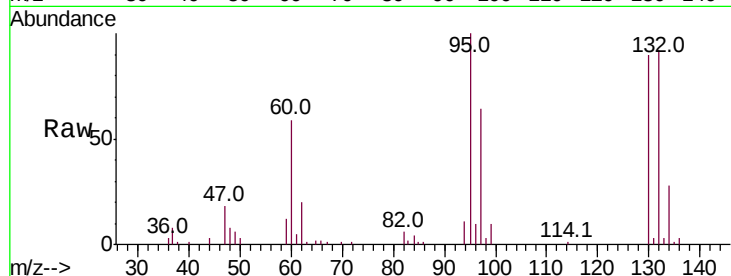
Ion Ratio Lower Upper

95 100

97 63.6 45.1 83.7

132 92.1 61.2 113.8

130 90.3 65.1 120.9

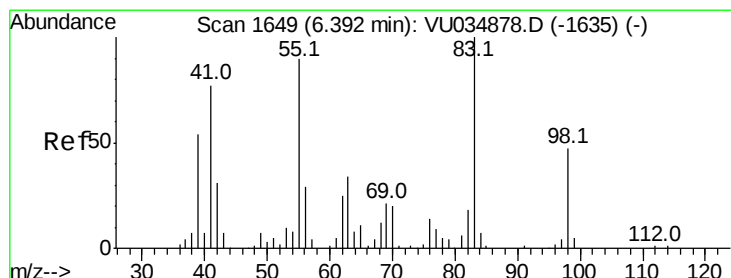
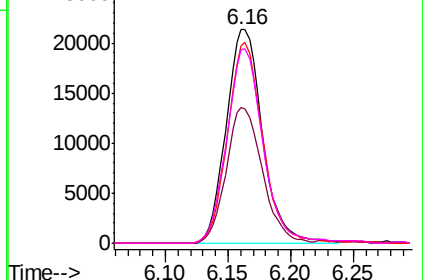
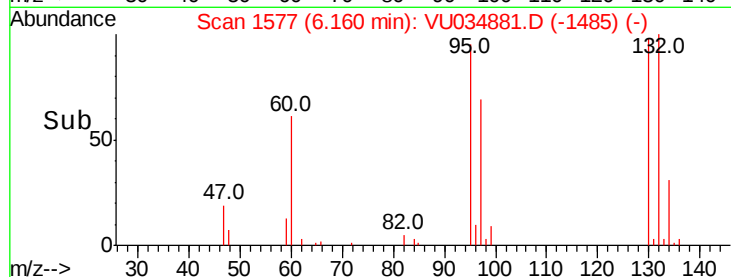


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.924 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

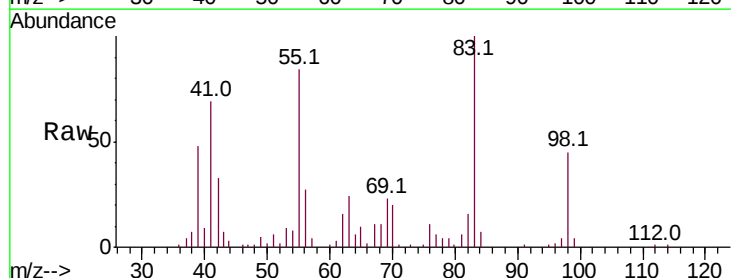
Tgt Ion: 83 Resp: 54057

Ion Ratio Lower Upper

83 100

55 85.7 68.9 103.3

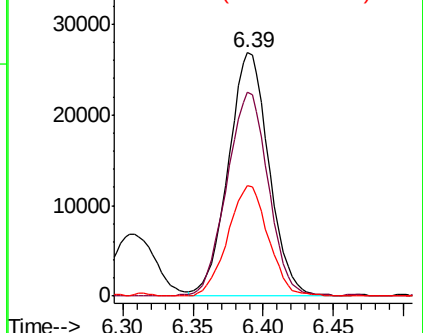
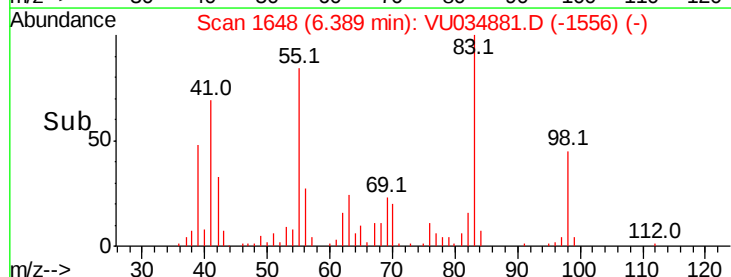
98 45.2 36.6 54.8

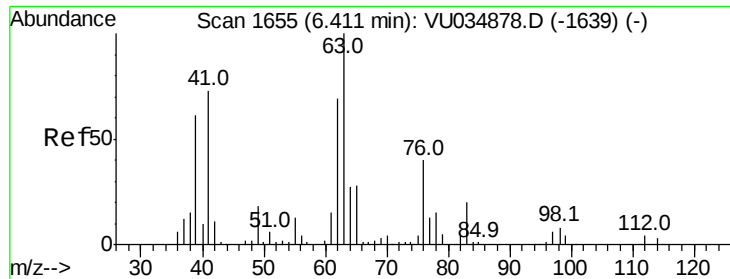


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.866 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

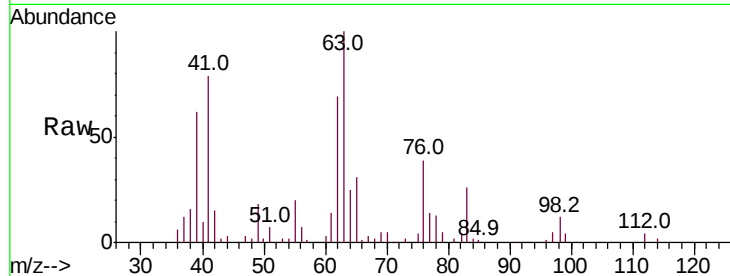
ClientSampleId :

Tot Ion: 63 Resp: 55239

Ion Ratio Lower Upper

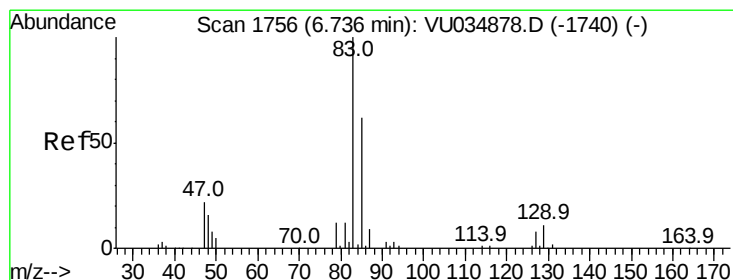
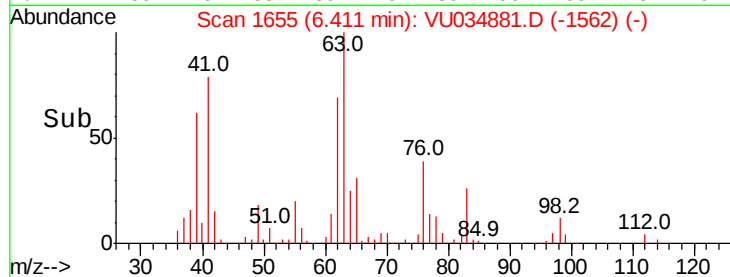
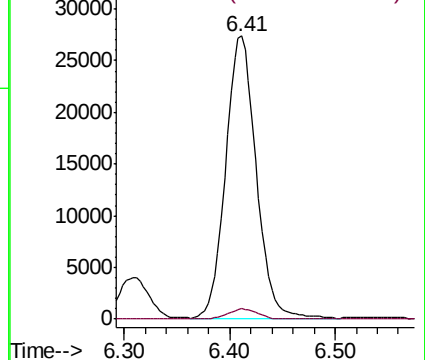
63 100

112 3.3 2.6 4.0



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 4.909 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

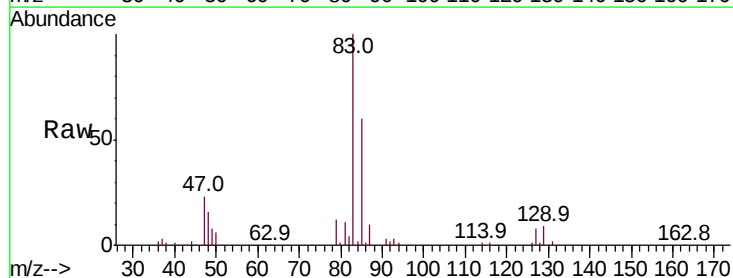
Tgt Ion: 83 Resp: 69581

Ion Ratio Lower Upper

83 100

85 59.7 43.5 80.7

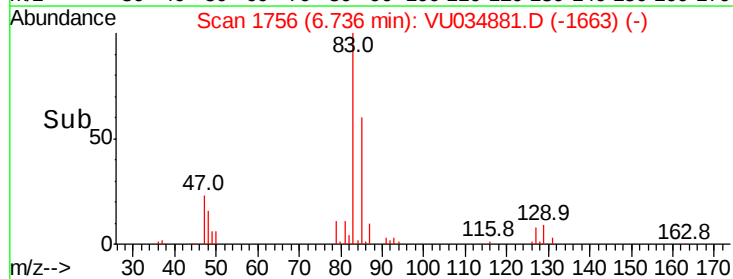
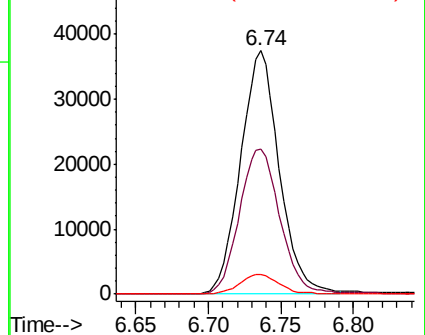
127 8.0 6.2 9.4

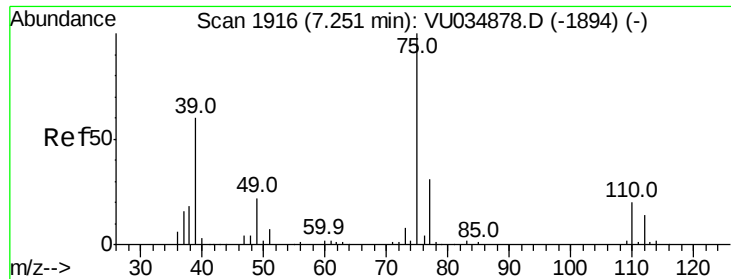


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

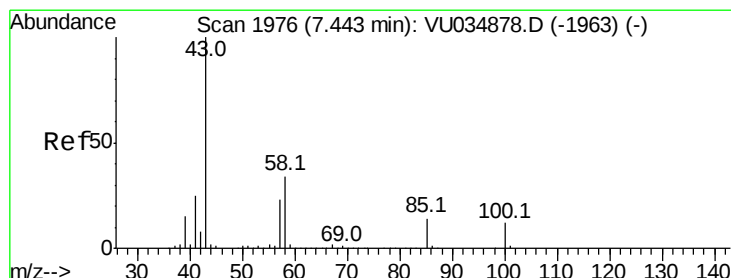
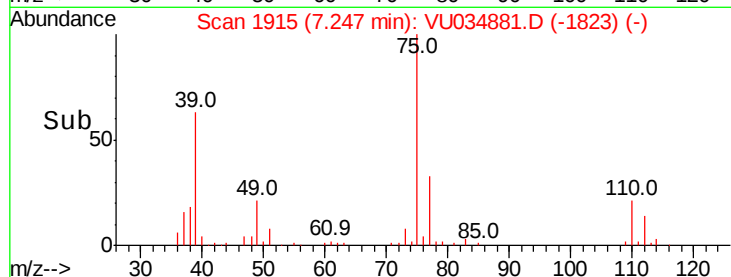
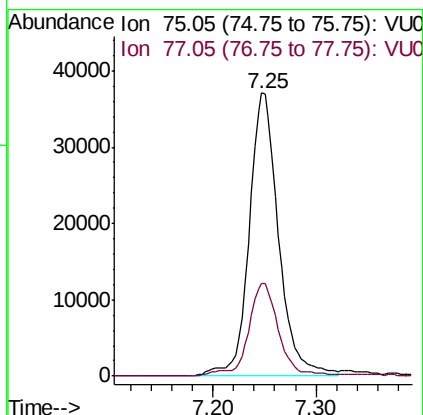
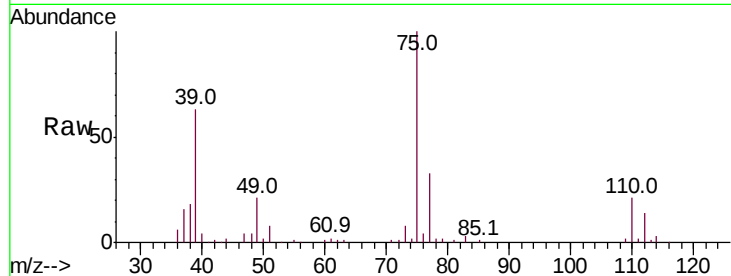




#39
 cis-1,3-Dichloropropene
 Concen: 5.029 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

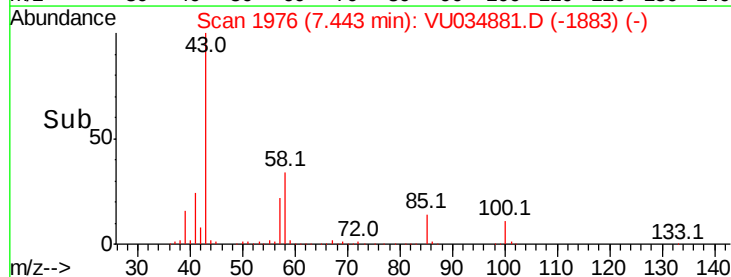
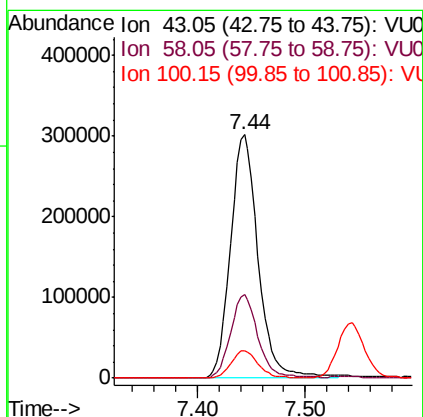
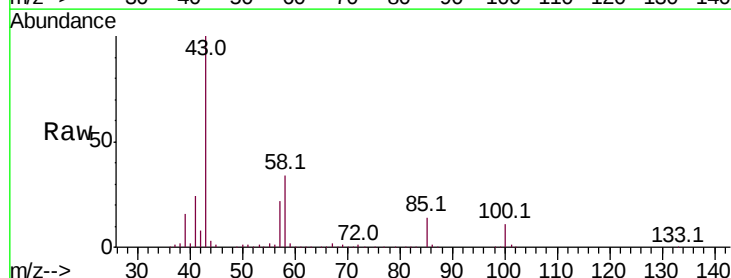
Instrument :
 MSVOA_U
 ClientSampleId :

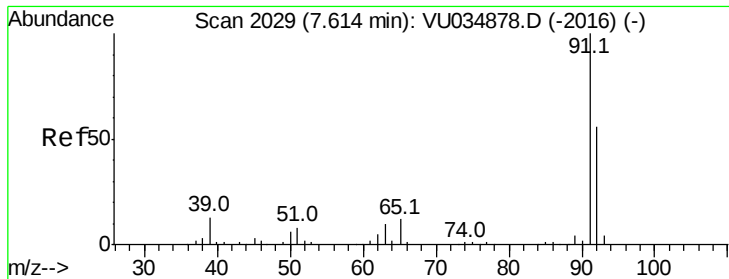
Tot Ion: 75 Resp: 73528
 Ion Ratio Lower Upper
 75 100
 77 32.8 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 54.793 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Tgt Ion: 43 Resp: 539098
 Ion Ratio Lower Upper
 43 100
 58 34.0 27.0 40.6
 100 11.2 9.2 13.8





#42

Toluene

Concen: 4.990 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

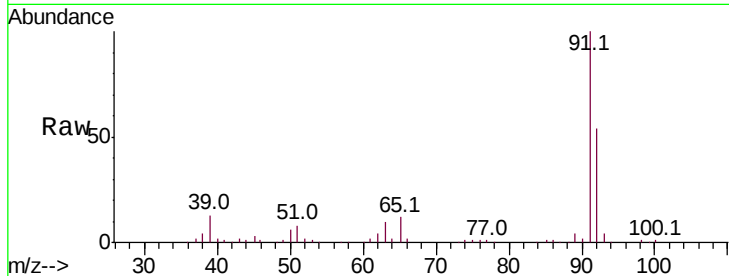
ClientSampleId :

Tot Ion: 91 Resp: 181209

Ion Ratio Lower Upper

91 100

92 54.3 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU034881.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU034881.D (-2016) (-)

7.61

120000

100000

80000

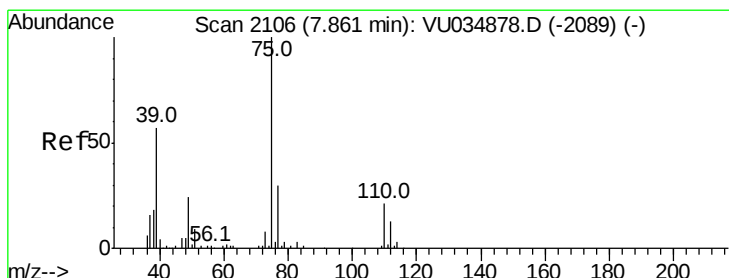
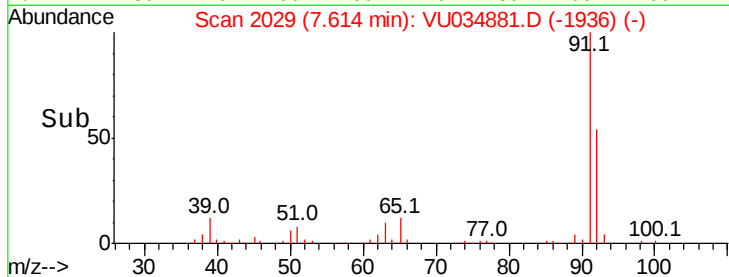
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 5.172 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU034881.D

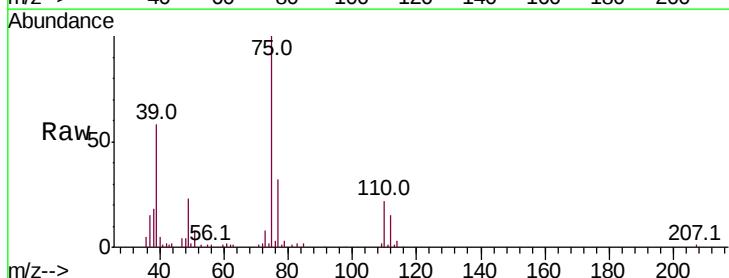
Acq: 30 Sep 2019 15:04

Tgt Ion: 75 Resp: 63493

Ion Ratio Lower Upper

75 100

77 31.5 21.2 39.4



Abundance Ion 75.05 (74.75 to 75.75): VU034881.D (-2089) (-)

Ion 77.05 (76.75 to 77.75): VU034881.D (-2089) (-)

7.86

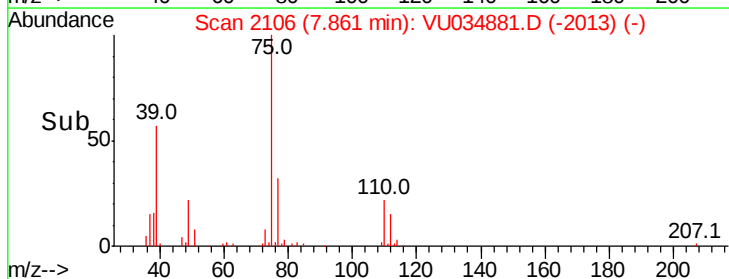
30000

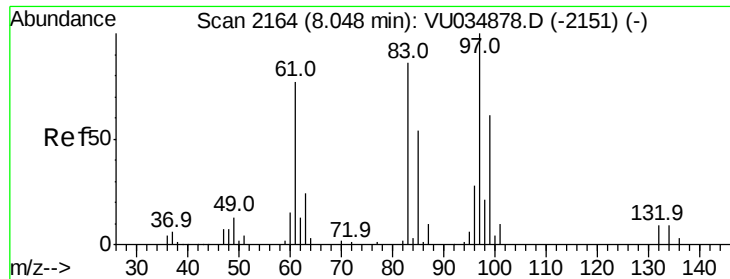
20000

10000

0

Time--> 7.75 7.80 7.85 7.90 7.95

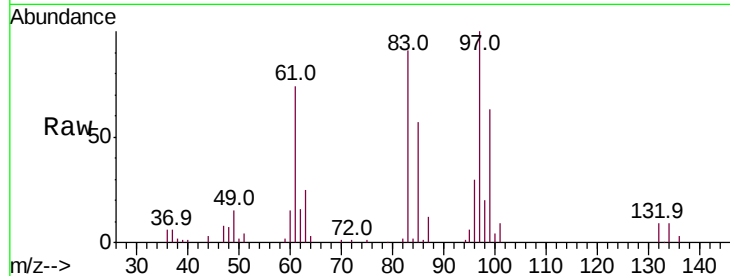




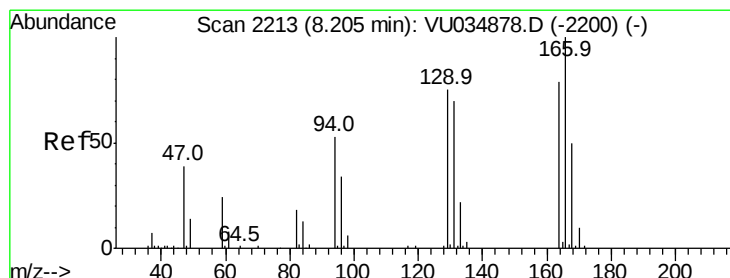
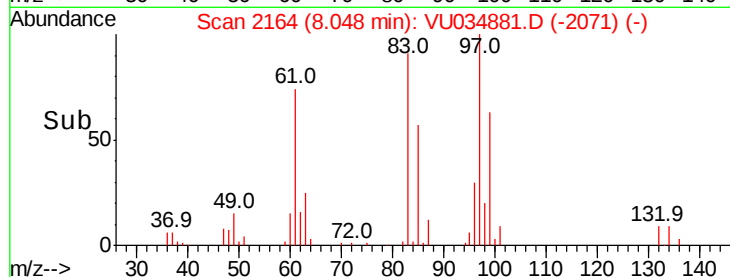
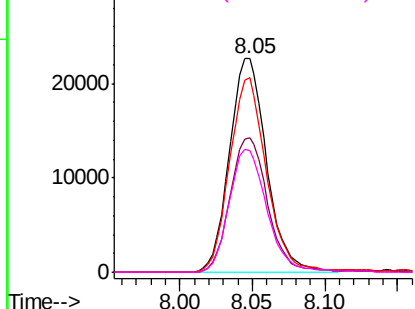
#45
 1,1,2-Trichloroethane
 Concen: 5.043 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 40321
 Ion Ratio Lower Upper
 97 100
 99 63.0 42.6 79.0
 83 91.3 60.1 111.7
 85 56.9 38.0 70.6

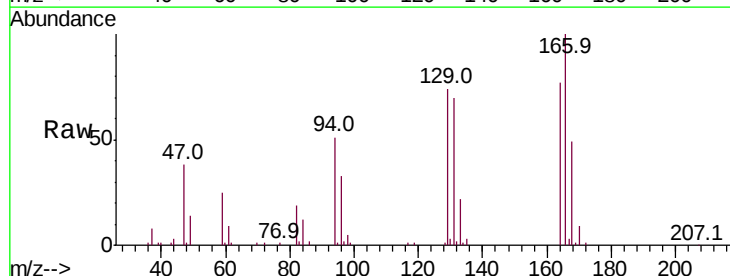


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

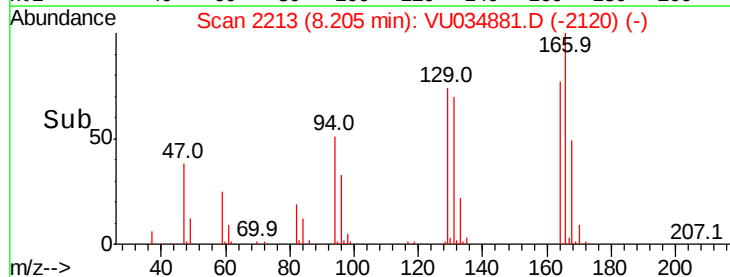
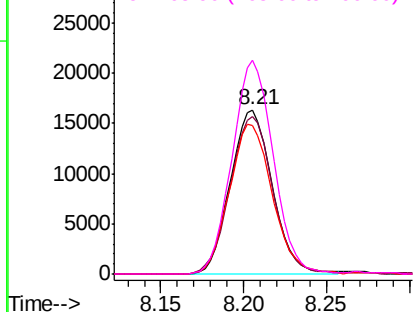


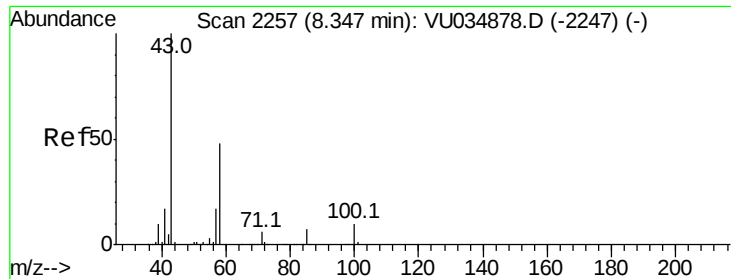
#47
 Tetrachloroethene
 Concen: 4.914 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Tgt Ion: 164 Resp: 28612
 Ion Ratio Lower Upper
 164 100
 129 95.9 66.3 123.1
 131 90.5 62.2 115.4
 166 130.0 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

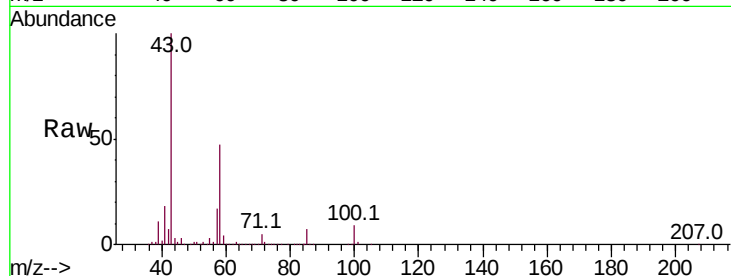




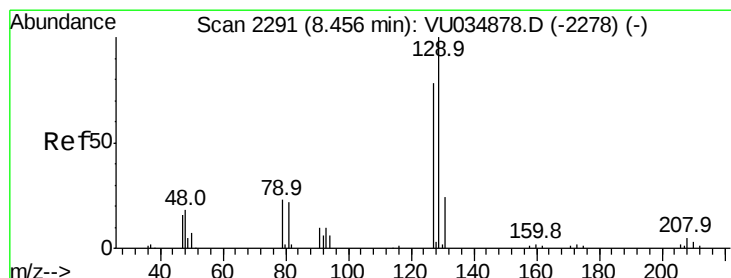
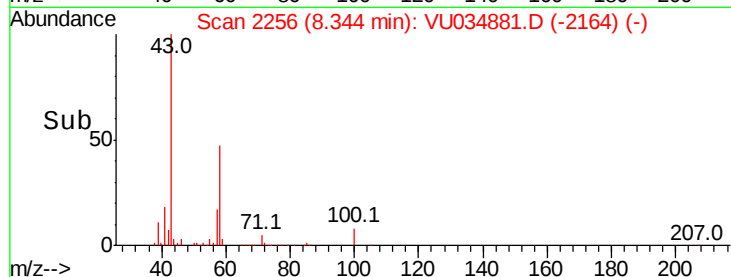
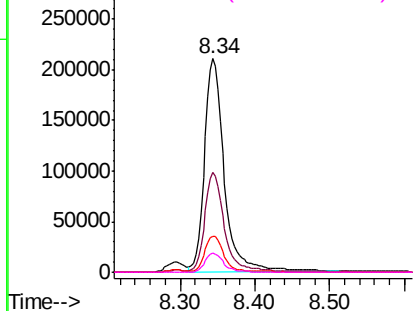
#48
2-Hexanone
Concen: 59.087 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 385756
Ion Ratio Lower Upper
43 100
58 46.3 37.1 55.7
57 16.3 13.4 20.0
100 8.6 7.0 10.4

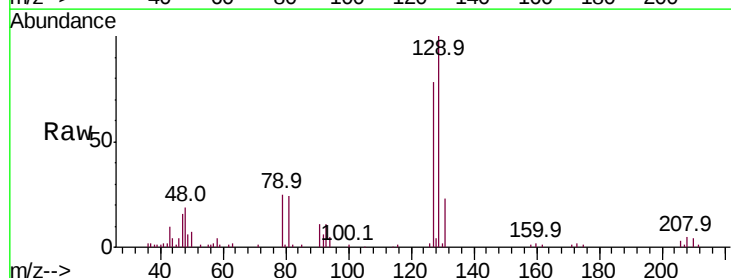


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

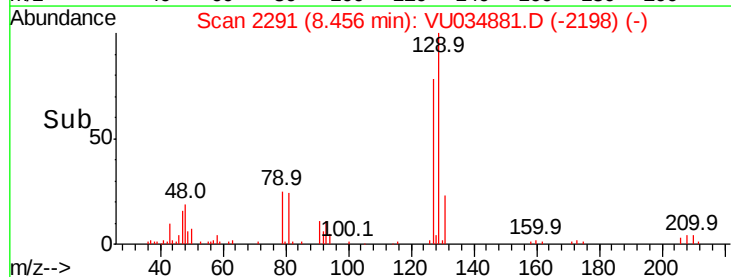
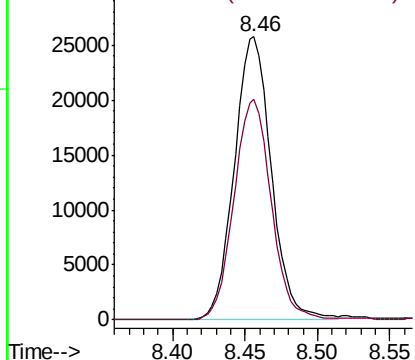


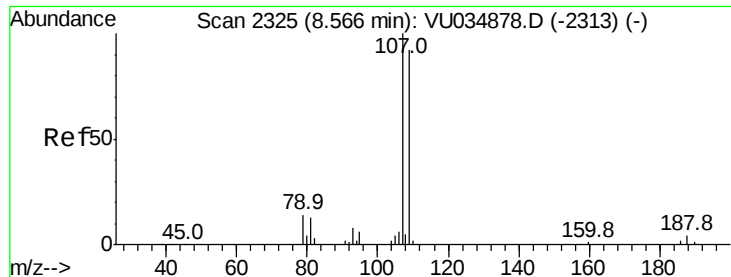
#49
Dibromochloromethane
Concen: 5.052 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Tgt Ion: 129 Resp: 45770
Ion Ratio Lower Upper
129 100
127 78.0 54.3 100.9



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

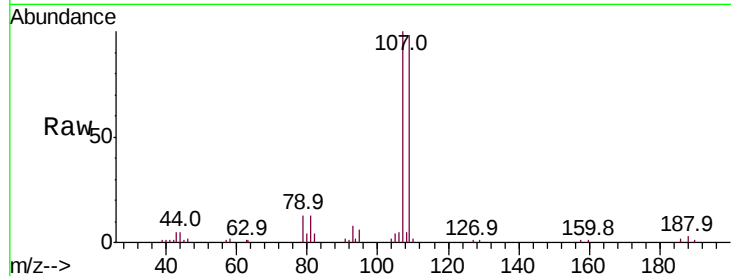




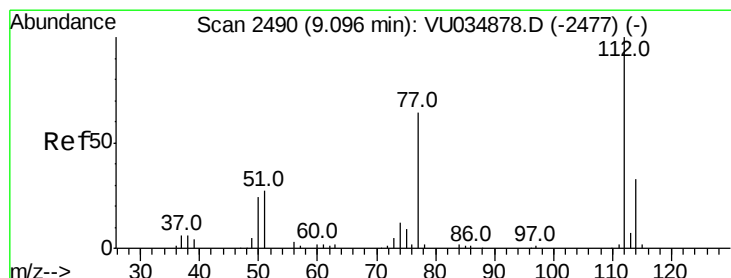
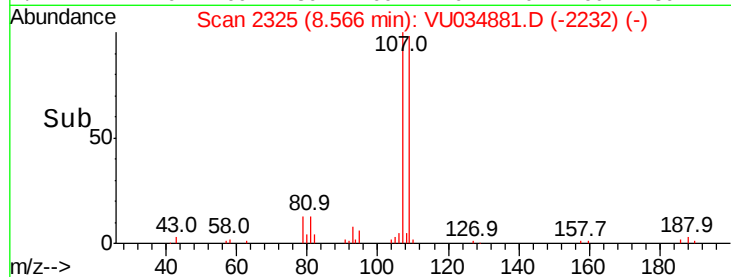
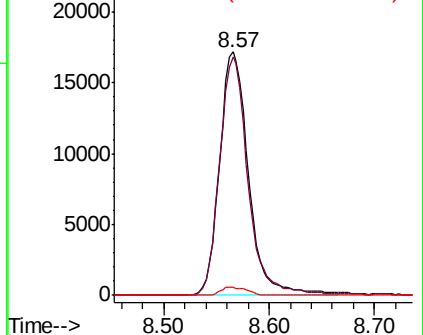
#50
1,2-Dibromoethane
Concen: 5.063 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	98.1	64.6	120.0
188	3.2	2.9	4.3

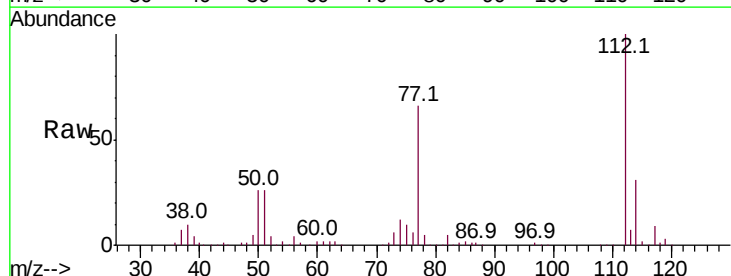


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

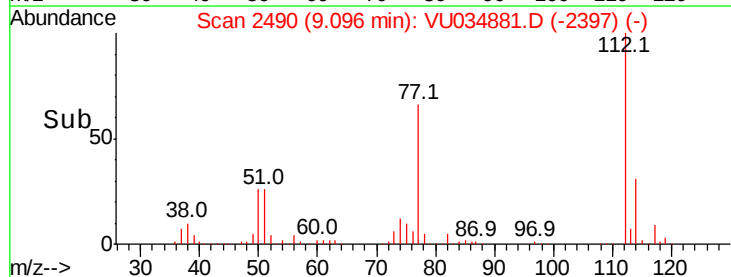
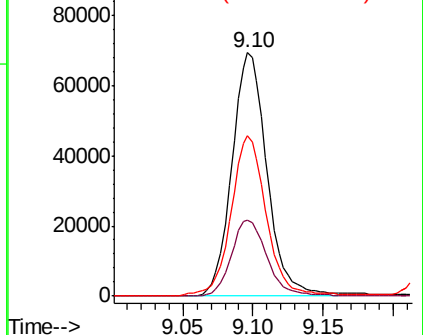


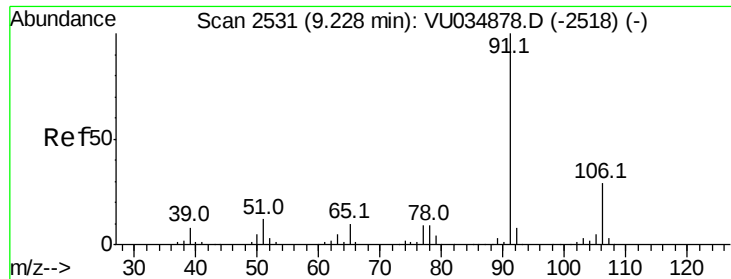
#51
Chlorobenzene
Concen: 4.911 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.7	42.3
77	65.9	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: 4.968 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

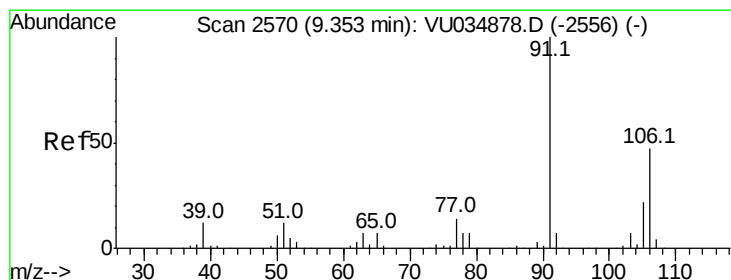
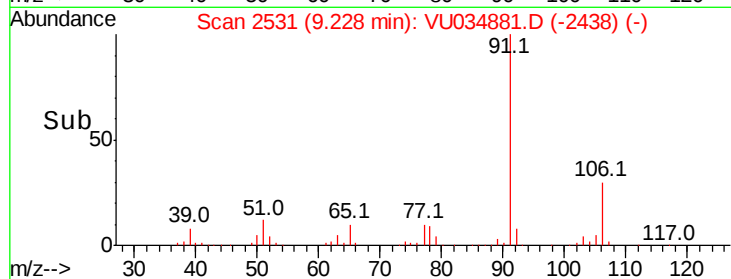
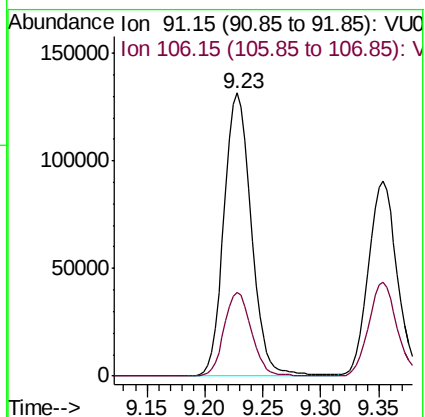
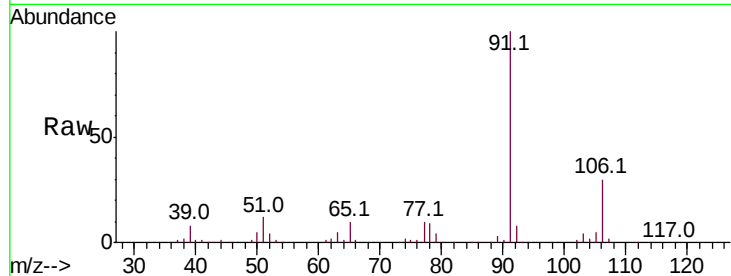
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 214644

Ion Ratio Lower Upper

91 100

106 29.7 20.2 37.4



#53

m,p-Xylene

Concen: 4.929 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034881.D

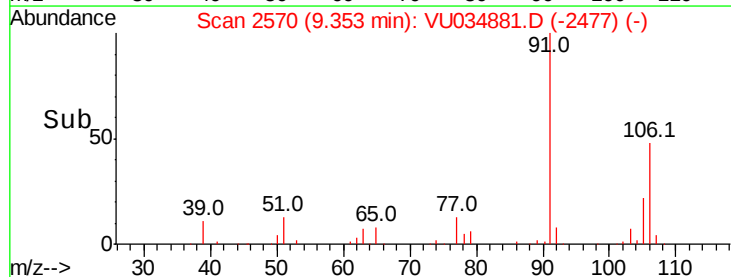
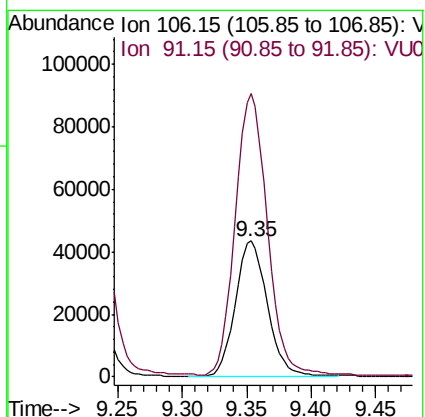
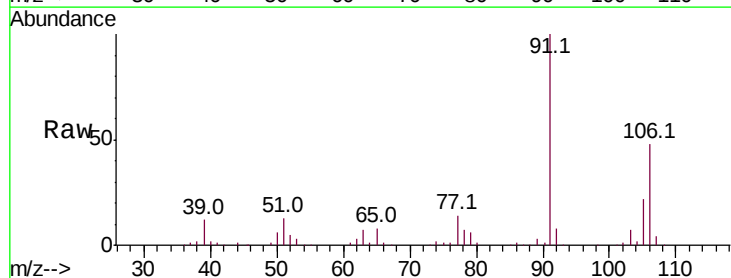
Acq: 30 Sep 2019 15:04

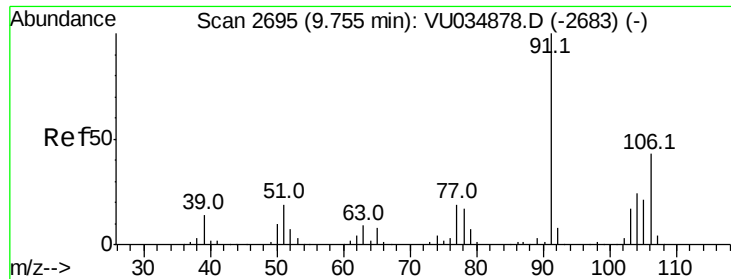
Tgt Ion: 106 Resp: 74243

Ion Ratio Lower Upper

106 100

91 208.1 149.4 277.5

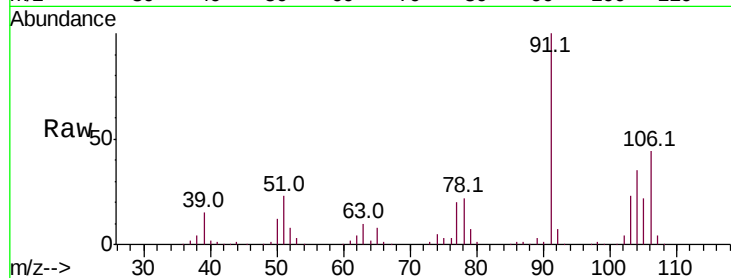




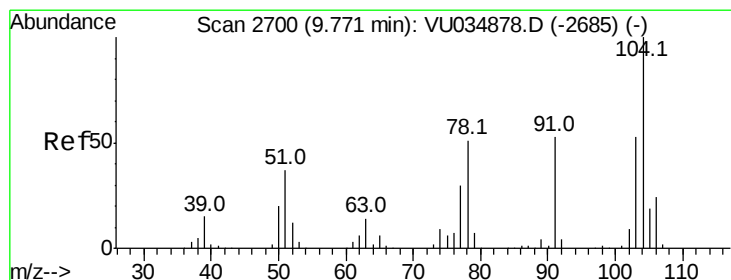
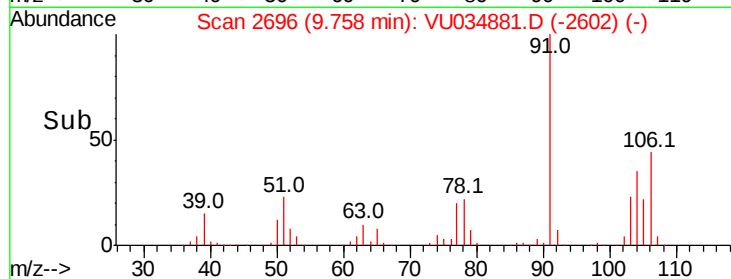
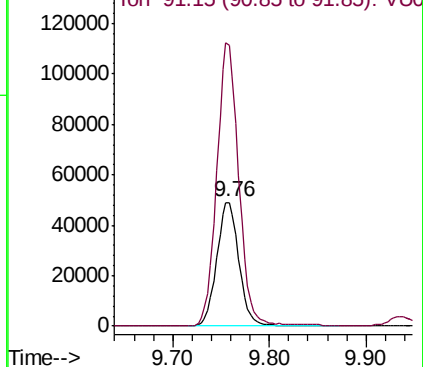
#54
o-Xylene
Concen: 4.931 ug/L
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 78627
Ion Ratio Lower Upper
106 100
91 227.0 161.4 299.8

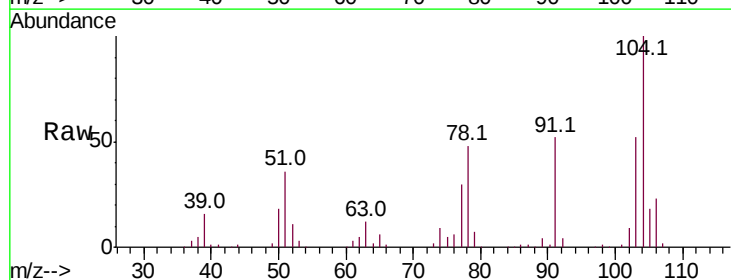


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

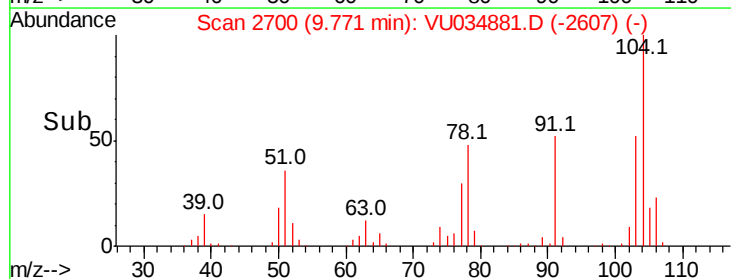
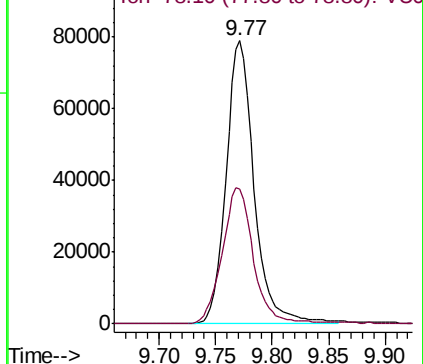


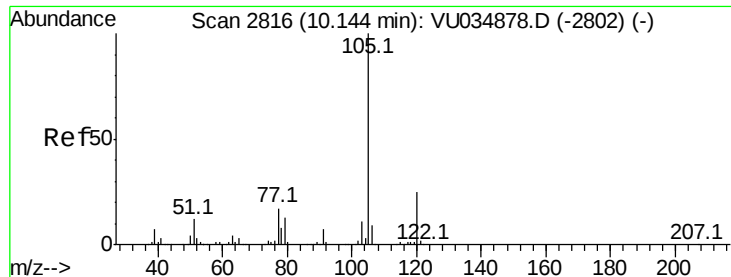
#55
Styrene
Concen: 5.031 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU034881.D
Acq: 30 Sep 2019 15:04

Tgt Ion:104 Resp: 136372
Ion Ratio Lower Upper
104 100
78 47.6 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: 4.954 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

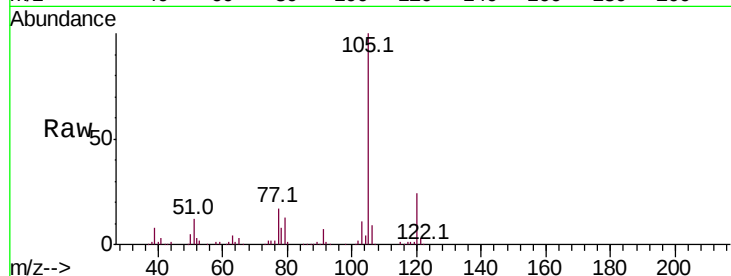
Tot Ion:105 Resp: 226377

Ion Ratio Lower Upper

105 100

120 24.7 20.2 30.4

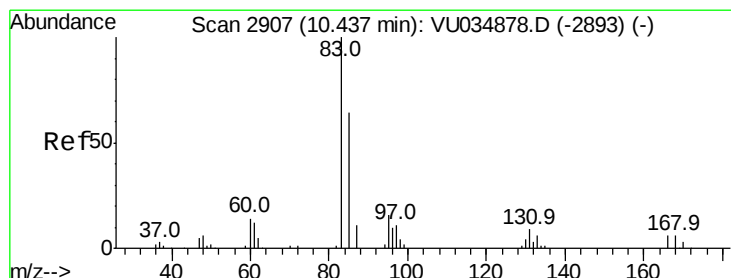
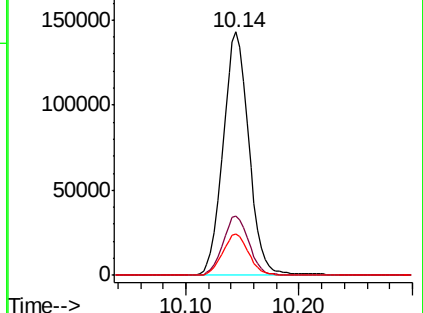
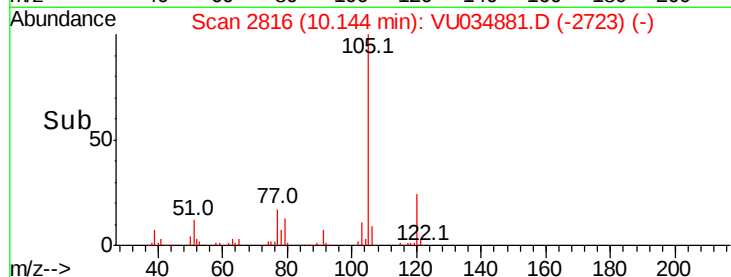
77 17.2 13.8 20.6



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: 5.301 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

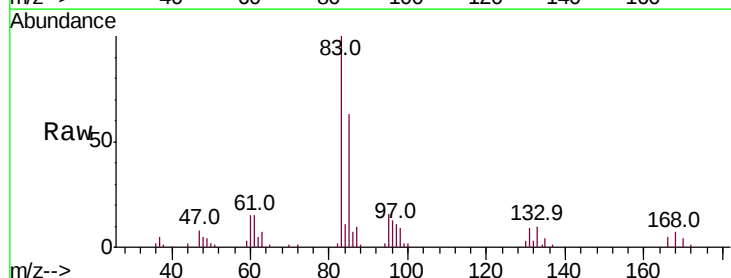
Tgt Ion: 83 Resp: 62197

Ion Ratio Lower Upper

83 100

85 63.3 45.2 84.0

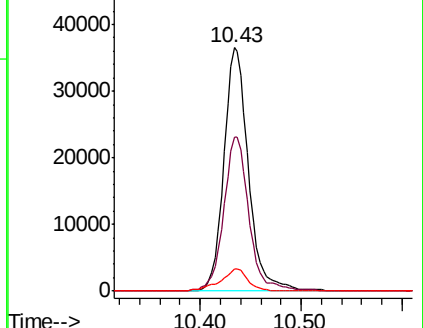
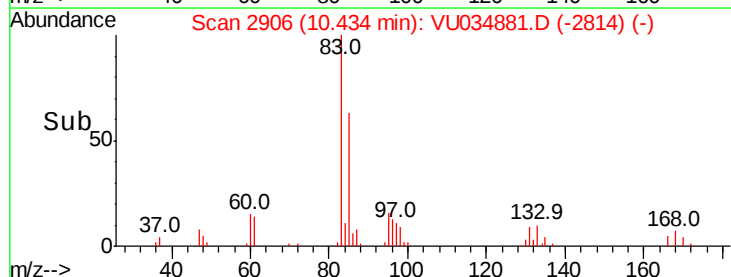
131 8.9 7.6 11.4

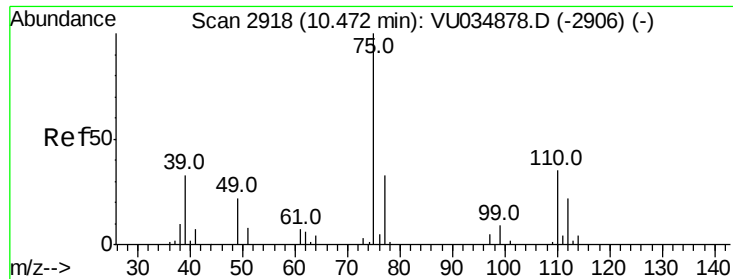


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

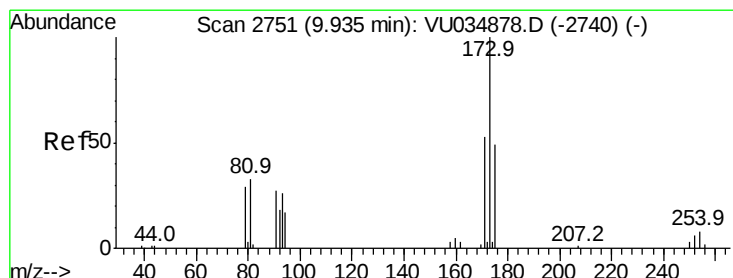
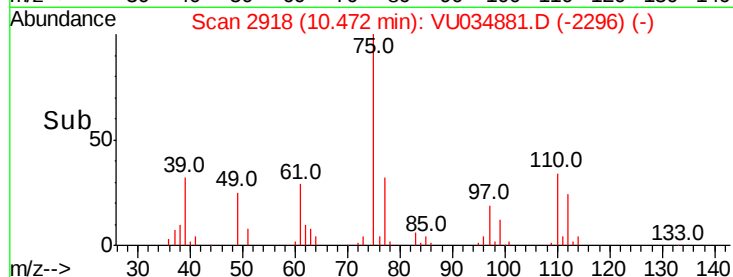
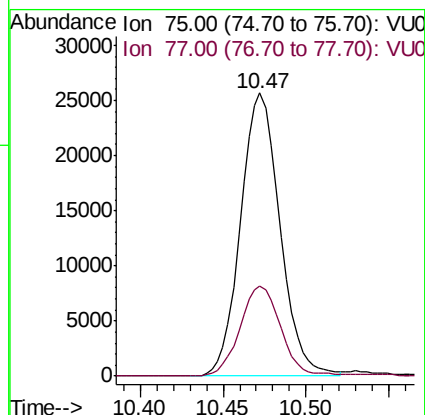
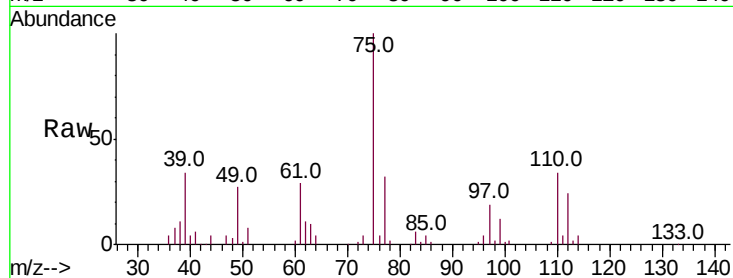




#59
 1,2,3-Trichloropropane
 Concen: 5.227 ug/L
 RT: 10.47 min Scan# 2918
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

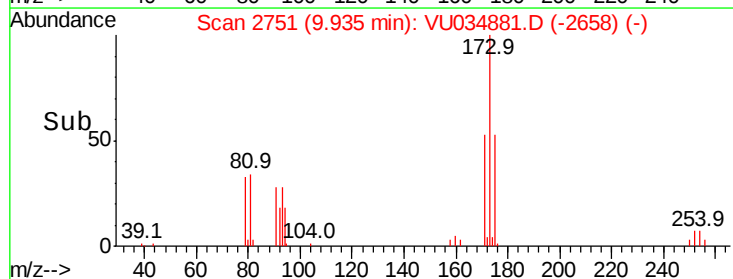
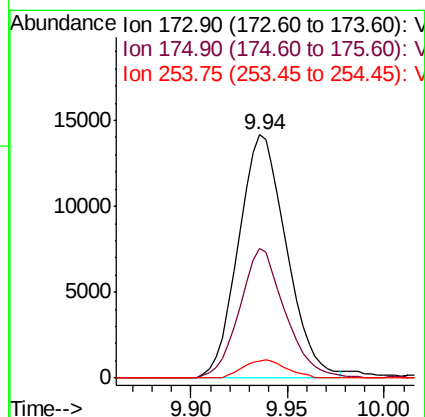
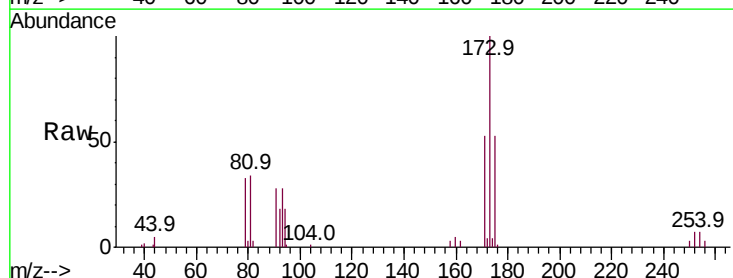
Instrument :
 MSVOA_U
 ClientSampled :

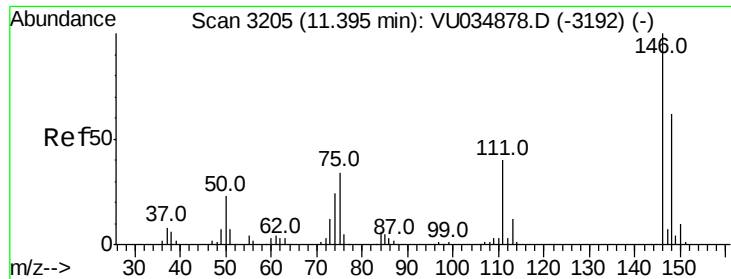
Tot Ion: 75 Resp: 42434
 Ion Ratio Lower Upper
 75 100
 77 33.2 26.5 39.7



#61
 Bromoform
 Concen: 4.946 ug/L
 RT: 9.94 min Scan# 2751
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Tgt Ion:173 Resp: 24458
 Ion Ratio Lower Upper
 173 100
 175 50.7 39.0 58.6
 254 6.8 6.1 9.1





#62

1,3-Dichlorobenzene

Concen: 5.136 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

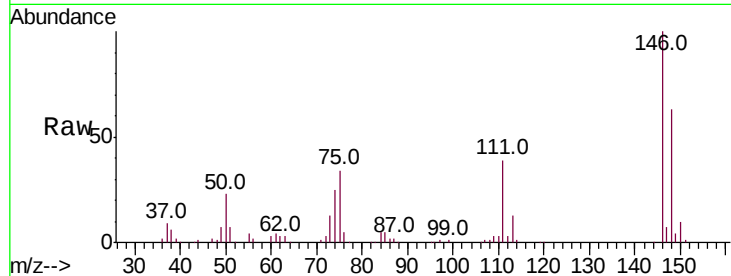
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146 Resp: 105587

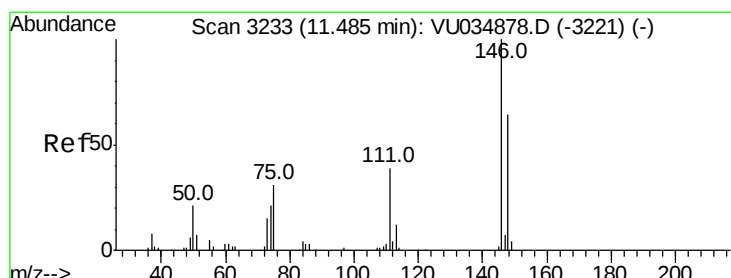
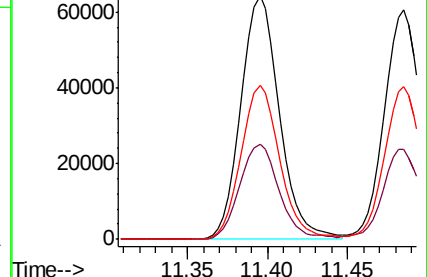
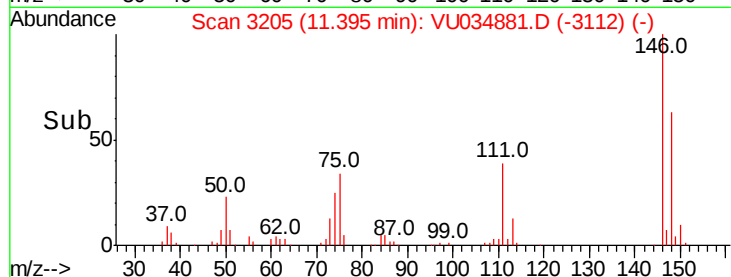
Ion	Ratio	Lower	Upper
146	100		
111	38.9	27.7	51.5
148	63.2	43.3	80.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.942 ug/L

RT: 11.49 min Scan# 3233

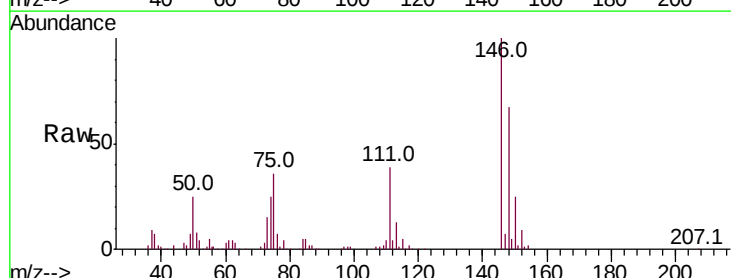
Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Tgt Ion:146 Resp: 104391

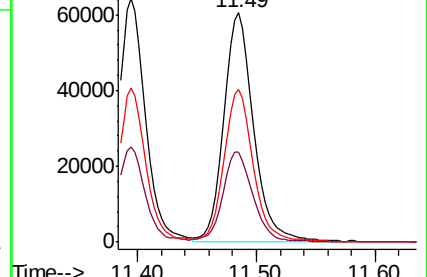
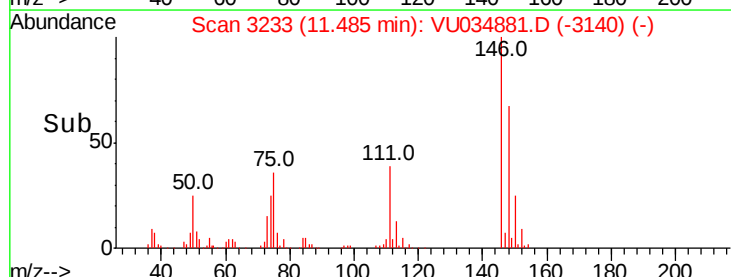
Ion	Ratio	Lower	Upper
146	100		
111	39.2	27.4	50.8
148	66.9	44.6	82.8

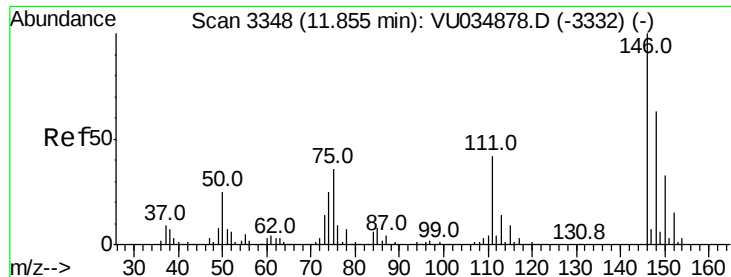


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.101 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

ClientSampled :

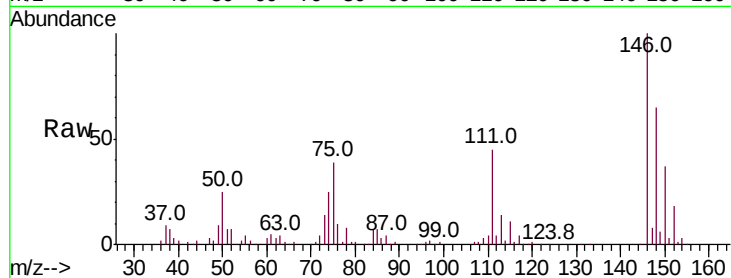
Tot Ion:146 Resp: 107569

Ion Ratio Lower Upper

146 100

111 44.5 33.4 50.2

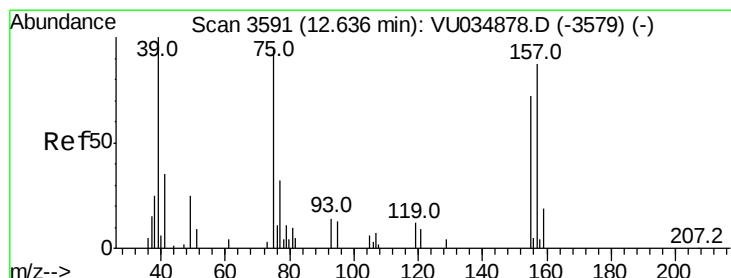
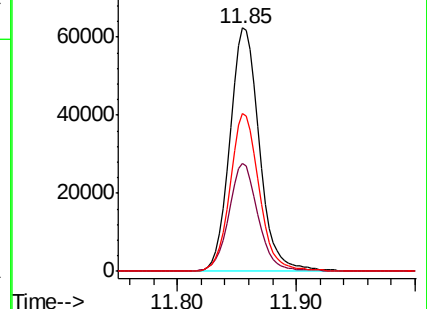
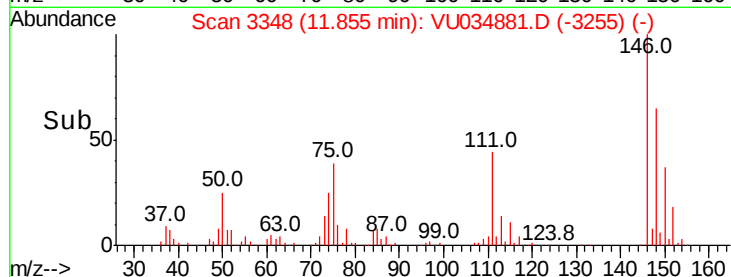
148 65.0 50.0 75.0



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: 5.901 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

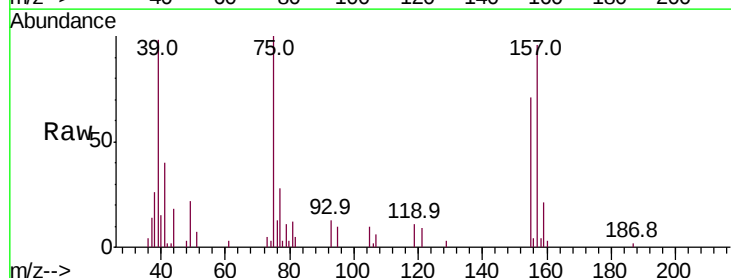
Tgt Ion: 75 Resp: 9353

Ion Ratio Lower Upper

75 100

155 70.6 61.1 91.7

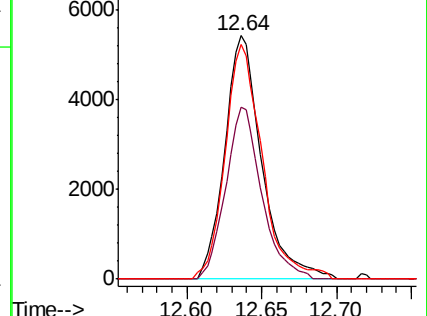
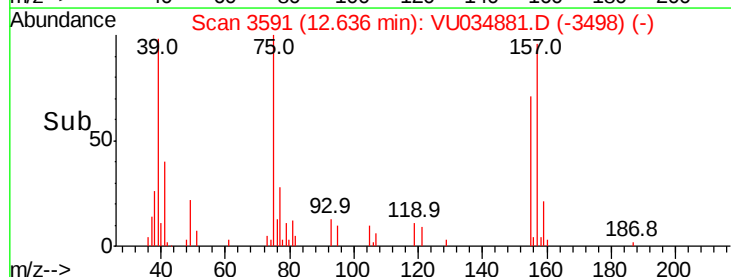
157 96.2 73.8 110.8

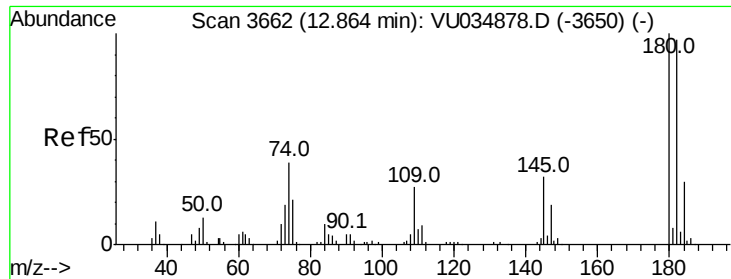


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

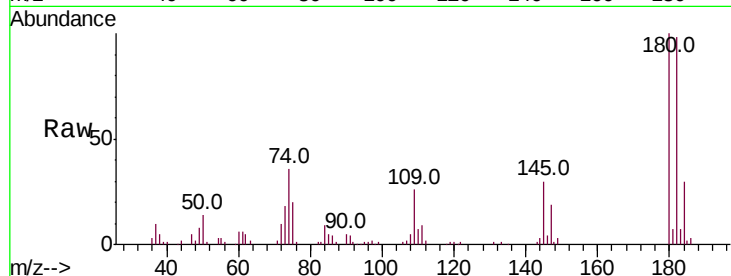




#67
 1,3,5-Trichlorobenzene
 Concen: 5.471 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.0	115.4
184	29.4	24.4	36.6
145	29.8	25.0	37.6



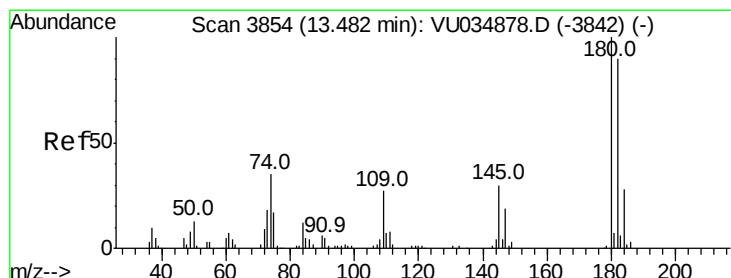
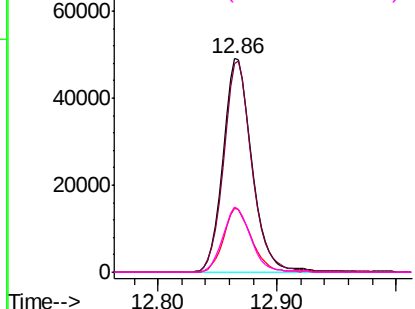
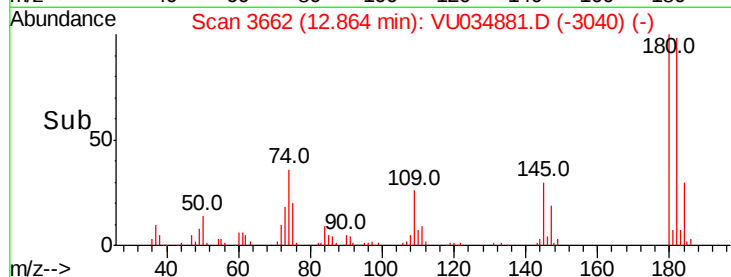
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

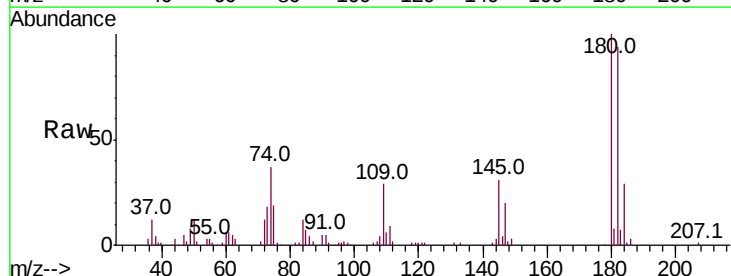
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 6.148 ug/L
 RT: 13.48 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034881.D
 Acq: 30 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.3	111.5
145	30.4	24.0	36.0

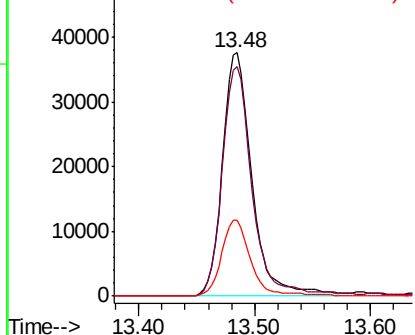
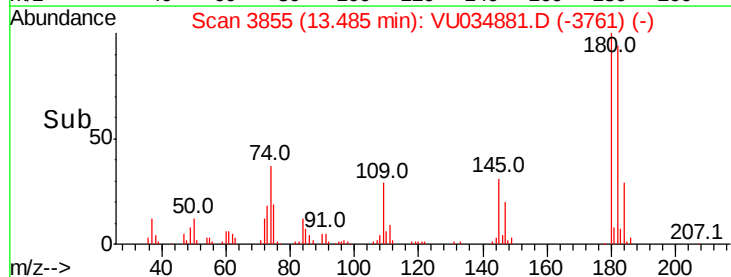


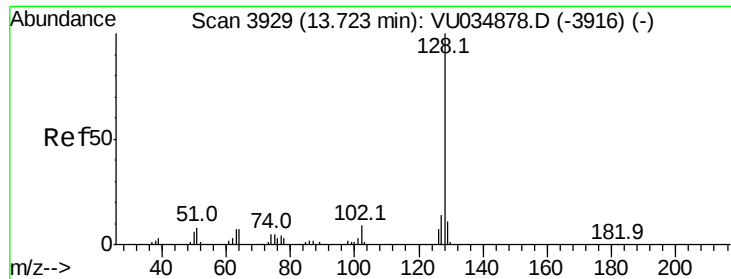
Abundance

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: 6.890 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

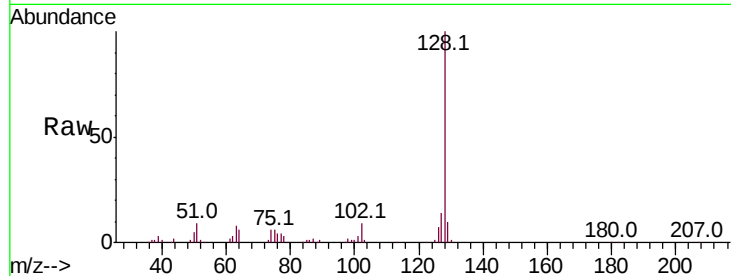
Tot Ion:128 Resp: 124604

Ion Ratio Lower Upper

128 100

129 10.8 8.5 12.7

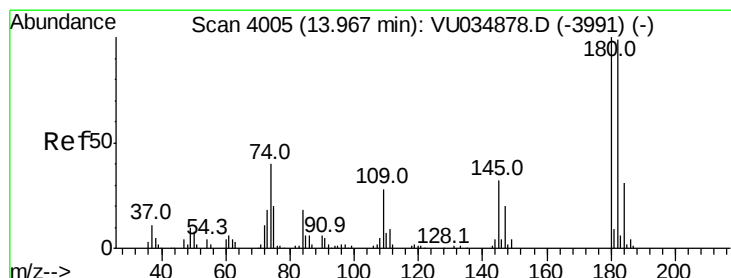
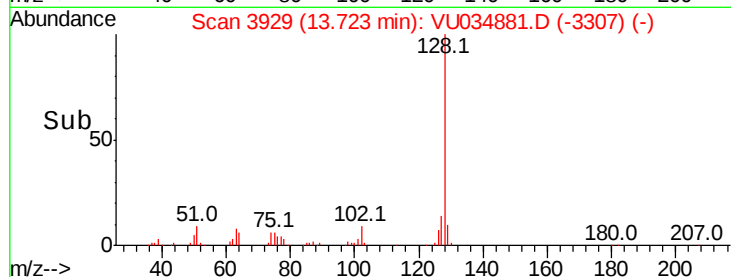
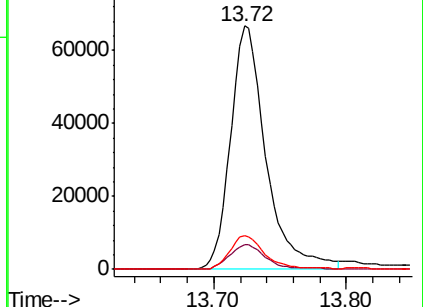
127 13.7 11.0 16.6



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: 6.212 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. -0.00 min

Lab File: VU034881.D

Acq: 30 Sep 2019 15:04

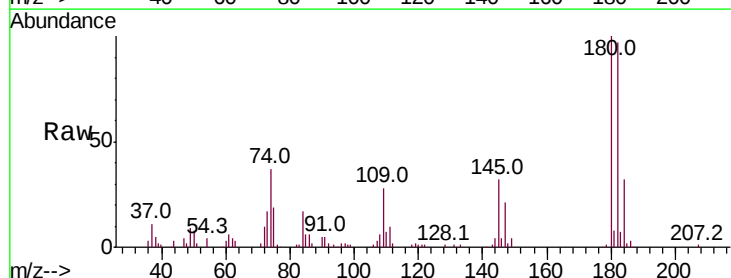
Tgt Ion:180 Resp: 67174

Ion Ratio Lower Upper

180 100

182 95.7 78.2 117.2

145 31.3 25.4 38.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

