

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092619\
 Data File : VU034834.D
 Acq On : 26 Sep 2019 10:08
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 26 15:49:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 14:52:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	462271	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	446783	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	220566	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	181991	38.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.92%
7) Chloroethane-d5	1.67	69	174204	47.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.26%
11) 1,1-Dichloroethene-d2	2.26	63	326522	40.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.48%
21) 2-Butanone-d5	4.16	46	439538	121.18	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	121.18%
24) Chloroform-d	4.62	84	372664	54.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.34%
26) 1,2-Dichloroethane-d4	5.29	65	251281	49.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.36%
32) Benzene-d6	5.31	84	739659	53.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.82%
36) 1,2-Dichloropropane-d6	6.31	67	264418	54.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.26%
41) Toluene-d8	7.54	98	702769	53.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.68%
43) trans-1,3-Dichloropropene-	7.83	79	123622	53.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.66%
47) 2-Hexanone-d5	8.29	63	289181	118.95	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	118.95%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	370858	55.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.44%
64) 1,2-Dichlorobenzene-d4	11.84	152	260170	56.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	181980	38.195	ug/L 100
3) Chloromethane	1.32	50	243701	42.701	ug/L 99
5) Vinyl chloride	1.40	62	223151	42.811	ug/L 98
6) Bromomethane	1.62	94	136998	48.123	ug/L 94
8) Chloroethane	1.69	64	145767	48.576	ug/L 98
9) Trichlorofluoromethane	1.87	101	272754	41.500	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	134762	42.764	ug/L 95
12) 1,1-Dichloroethene	2.27	96	141524	46.793	ug/L 78
13) Acetone	2.33	43	381825	90.499	ug/L 95
14) Carbon disulfide	2.46	76	426763	41.819	ug/L 99
15) Methyl Acetate	2.61	43	282782	50.175	ug/L 97
16) Methylene chloride	2.68	84	194329	50.723	ug/L 90
17) trans-1,2-Dichloroethene	2.96	96	166062	50.219	ug/L 83
18) Methyl tert-butyl Ether	2.98	73	601252	49.010	ug/L 96
19) 1,1-Dichloroethane	3.42	63	352366	46.451	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	192858	49.880	ug/L 89
22) 2-Butanone	4.25	43	470493	93.735	ug/L 95

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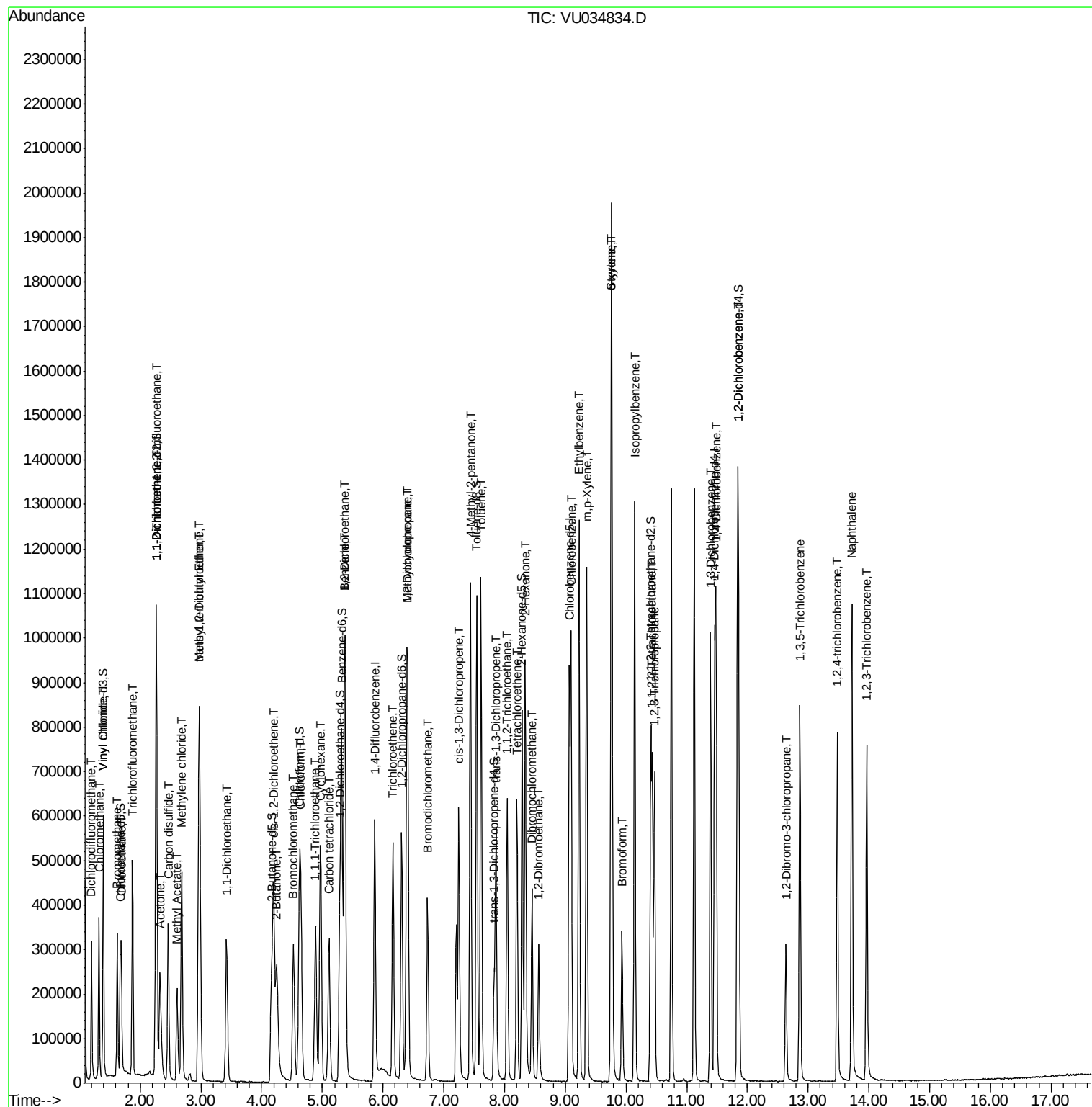
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	93208	50.365	ug/L	93
25) Chloroform	4.65	83	335899	44.967	ug/L	98
27) 1,2-Dichloroethane	5.38	62	285721	44.279	ug/L	98
29) Cyclohexane	4.97	56	292517	39.666	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	257915	42.414	ug/L	95
31) Carbon tetrachloride	5.11	117	211702	40.849	ug/L	96
33) Benzene	5.36	78	751748	48.514	ug/L	100
34) Trichloroethene	6.16	95	178773	46.715	ug/L	95
35) Methylcyclohexane	6.39	83	262049	40.351	ug/L	93
37) 1,2-Dichloropropane	6.41	63	219611	47.597	ug/L	99
38) Bromodichloromethane	6.73	83	257167	45.960	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	325490	46.950	ug/L	95
40) 4-Methyl-2-pentanone	7.44	43	813273	92.324	ug/L	94
42) Toluene	7.61	91	806533	48.162	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	303453	48.554	ug/L	100
45) 1,1,2-Trichloroethane	8.04	97	188000	50.868	ug/L	97
46) Tetrachloroethene	8.21	164	129371	48.060	ug/L	95
48) 2-Hexanone	8.34	43	669091	97.252	ug/L	95
49) Dibromochloromethane	8.45	129	204025	49.526	ug/L	98
50) 1,2-Dibromoethane	8.56	107	205251	51.529	ug/L	100
51) Chlorobenzene	9.10	112	503031	49.413	ug/L	97
52) Ethylbenzene	9.23	91	863417	45.785	ug/L	97
53) m,p-Xylene	9.35	106	326210	48.839	ug/L	94
54) o-xylene	9.76	106	316231	47.867	ug/L	99
55) Styrene	9.77	104	554935	49.624	ug/L	96
56) Isopropylbenzene	10.14	105	811280	45.544	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.43	83	346176	48.767	ug/L	97
59) 1,2,3-Trichloropropane	10.47	75	265412	46.056	ug/L	99
61) Bromoform	9.94	173	145465	47.900	ug/L	99
62) 1,3-Dichlorobenzene	11.39	146	378269	49.522	ug/L	97
63) 1,4-Dichlorobenzene	11.49	146	390471	50.182	ug/L	96
65) 1,2-Dichlorobenzene	11.85	146	384362	49.802	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.64	75	74748	45.565	ug/L	86
67) 1,3,5-Trichlorobenzene	12.86	180	248785	48.611	ug/L	97
68) 1,2,4-trichlorobenzene	13.48	180	227511	56.530	ug/L	97
69) Naphthalene	13.72	128	836289	60.024	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	230541	55.671	ug/L	94

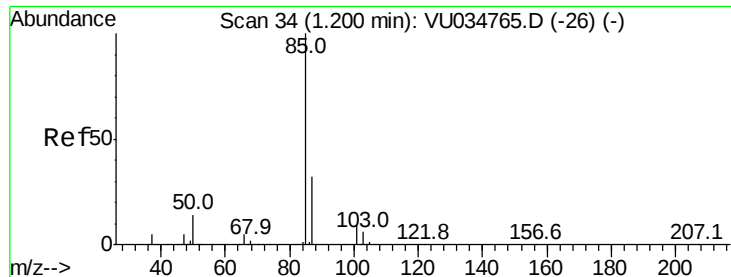
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 38.195 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

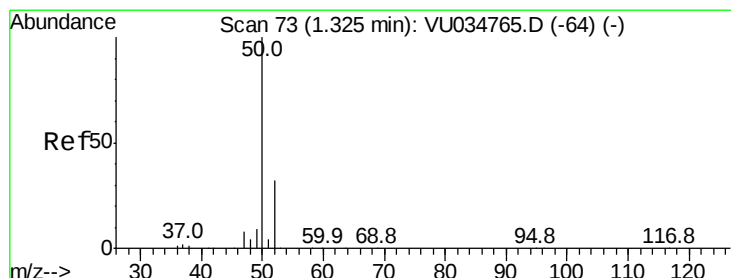
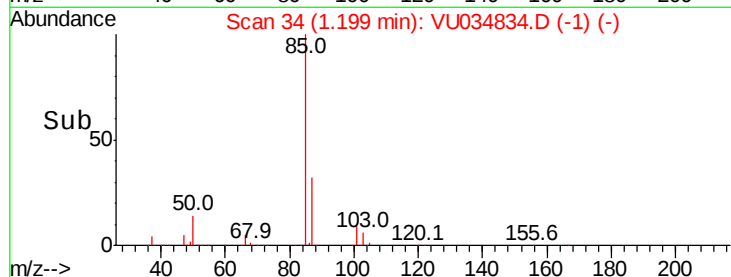
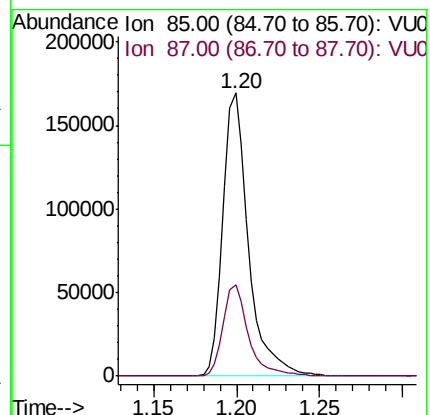
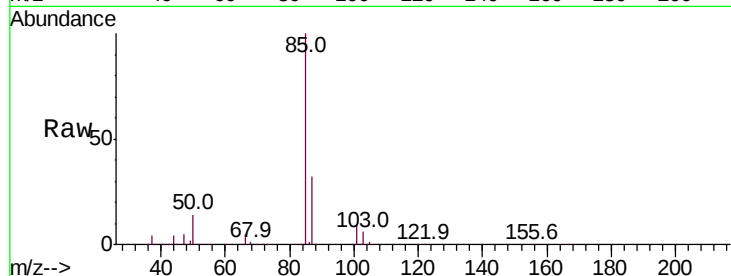
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 181980

Ion Ratio Lower Upper

85 100

87 32.1 25.5 38.3



#3

Chloromethane

Concen: 42.701 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034834.D

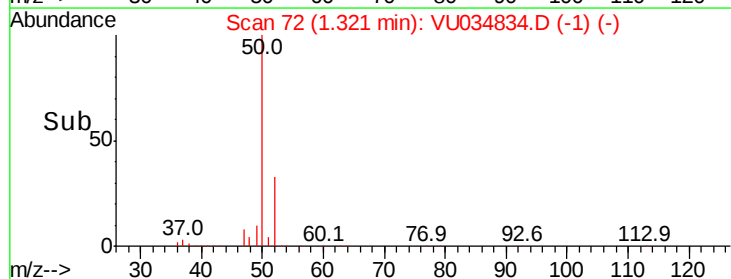
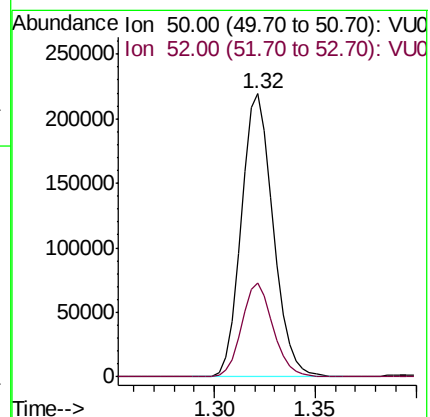
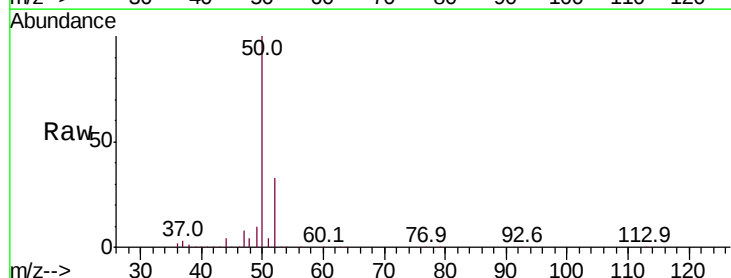
Acq: 26 Sep 2019 10:08

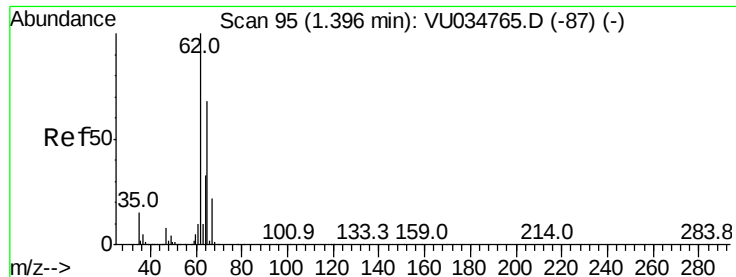
Tgt Ion: 50 Resp: 243701

Ion Ratio Lower Upper

50 100

52 33.2 22.7 42.1





#5

Vinyl chloride

Concen: 42.811 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

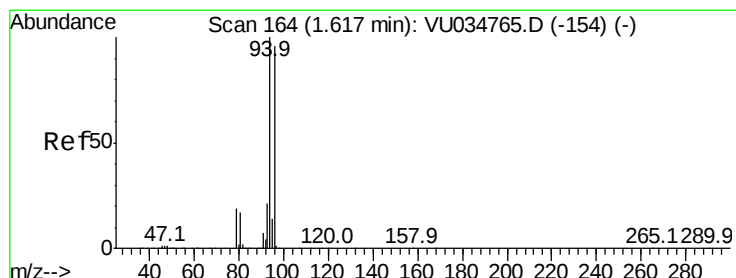
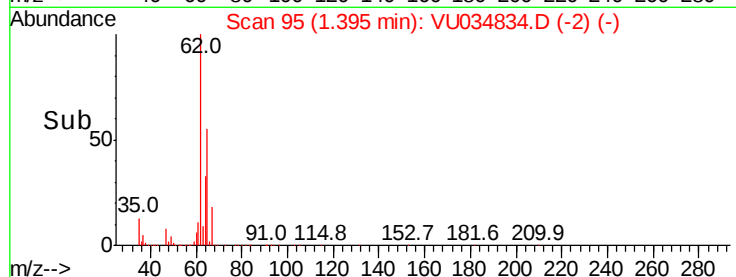
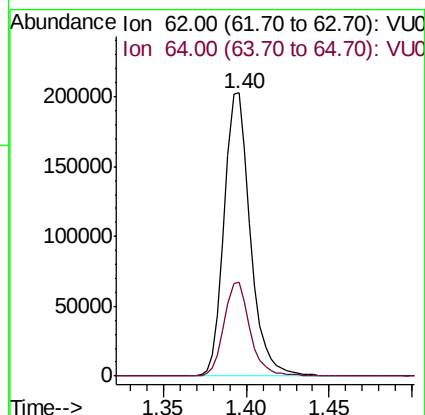
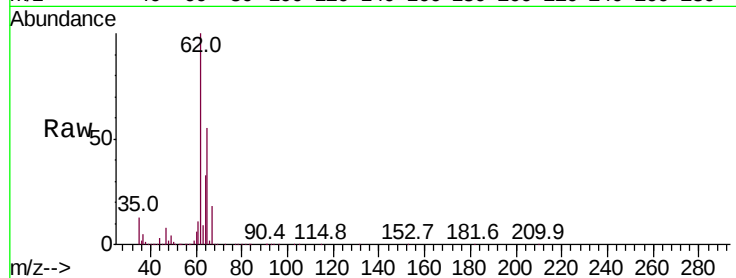
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 223151

Ion Ratio Lower Upper

62 100

64 33.0 22.2 41.2



#6

Bromomethane

Concen: 48.123 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034834.D

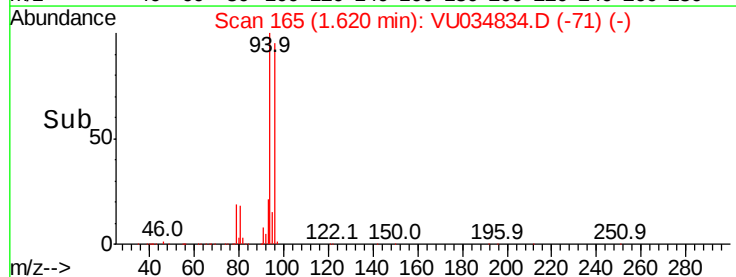
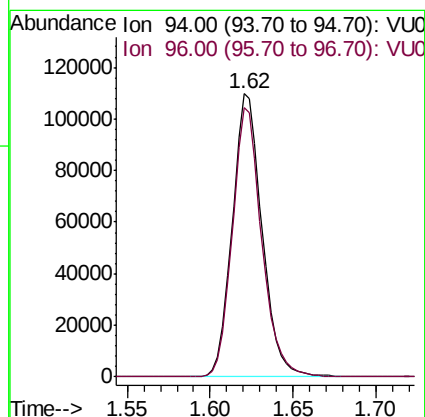
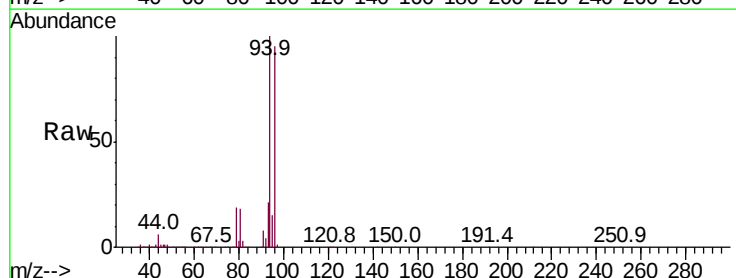
Acq: 26 Sep 2019 10:08

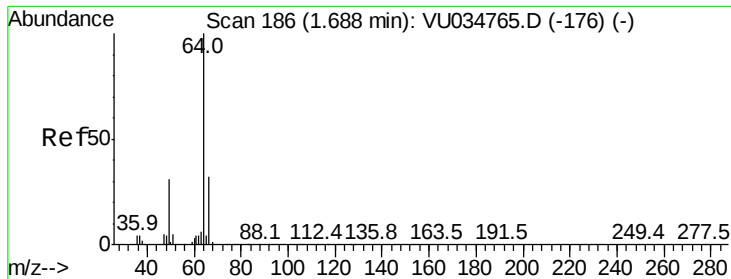
Tgt Ion: 94 Resp: 136998

Ion Ratio Lower Upper

94 100

96 95.1 62.8 116.6





#8

Chloroethane

Concen: 48.576 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

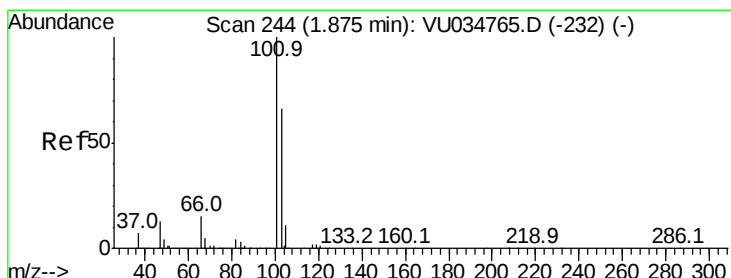
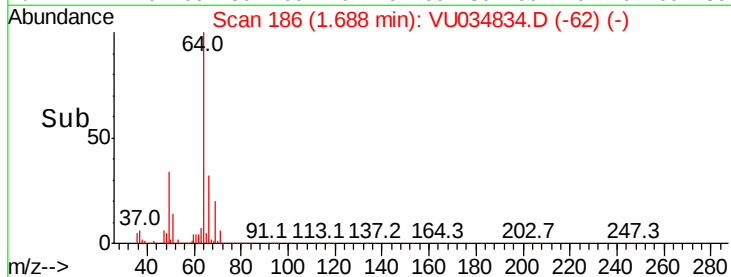
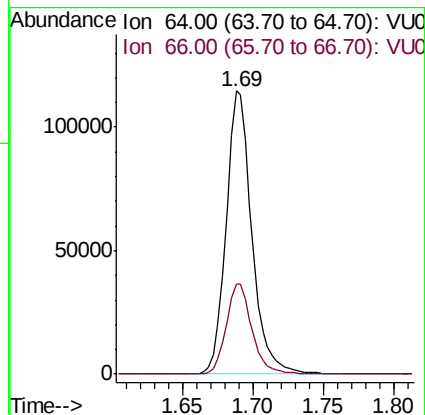
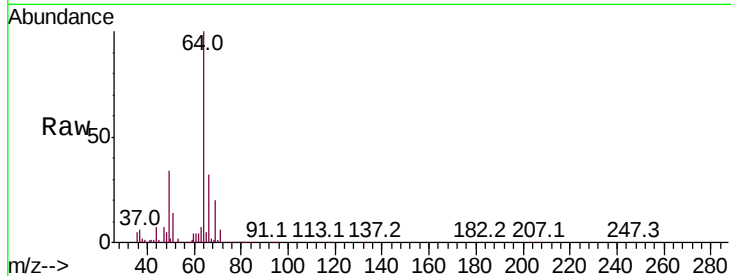
ClientSampleId :

Tot Ion: 64 Resp: 145767

Ion Ratio Lower Upper

64 100

66 31.9 23.1 42.9



#9

Trichlorofluoromethane

Concen: 41.500 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034834.D

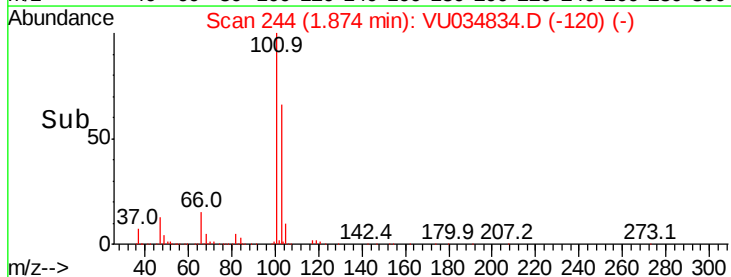
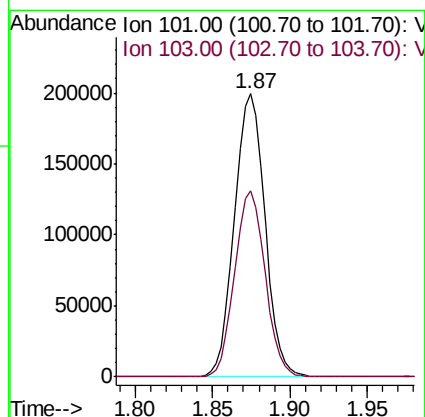
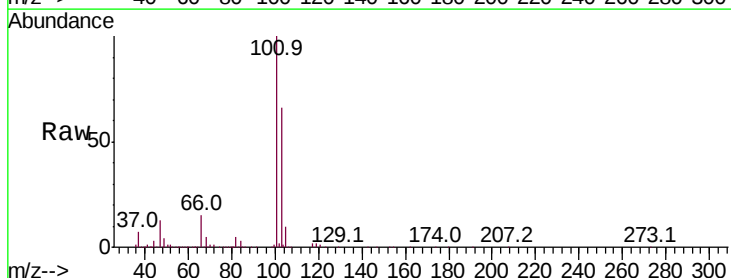
Acq: 26 Sep 2019 10:08

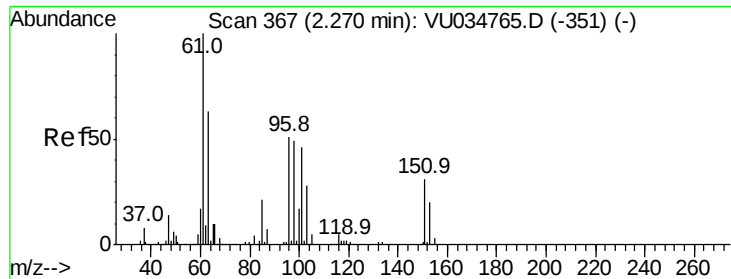
Tgt Ion: 101 Resp: 272754

Ion Ratio Lower Upper

101 100

103 65.6 51.8 77.8





#10

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

Concen: 42.764 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

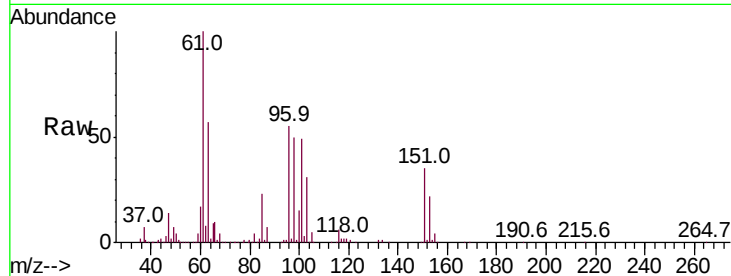
Tot Ion:101 Resp: 134762

Ion Ratio Lower Upper

101 100

85 49.0 39.0 58.4

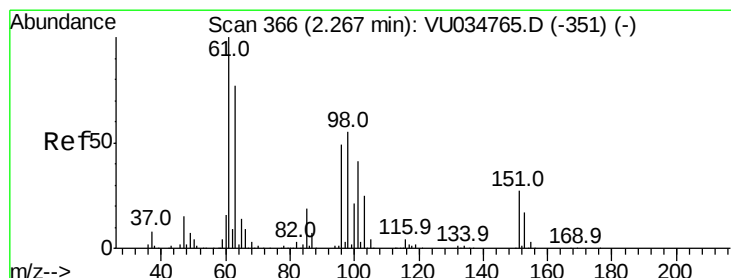
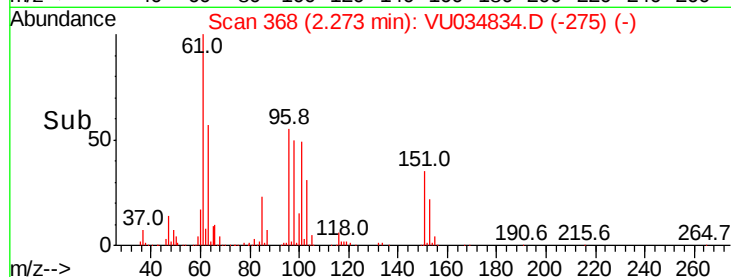
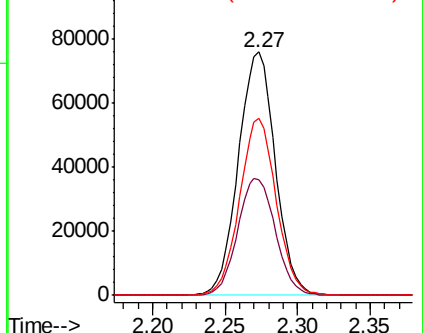
151 72.1 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.793 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

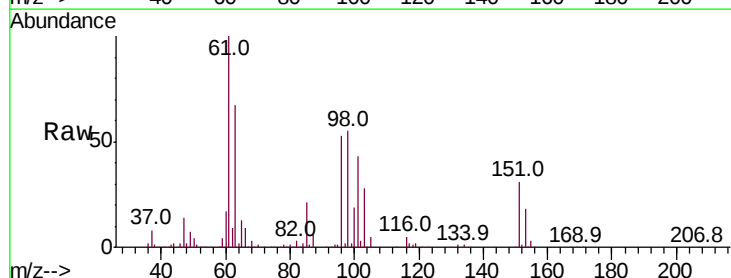
Tgt Ion: 96 Resp: 141524

Ion Ratio Lower Upper

96 100

61 187.9 153.2 284.4

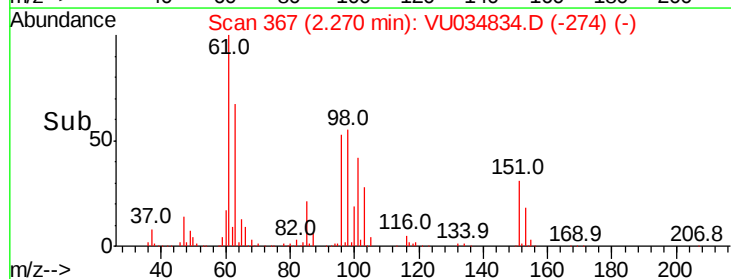
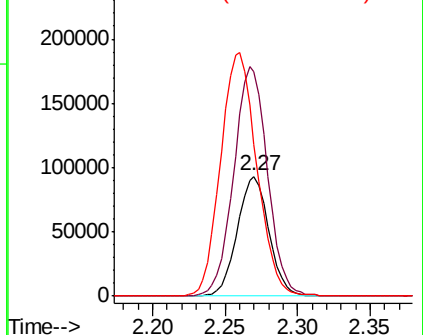
63 126.7 113.8 211.3

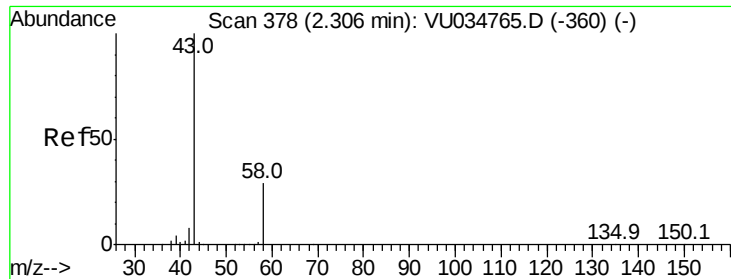


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 90.499 ug/L

RT: 2.33 min Scan# 385

Delta R.T. 0.02 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

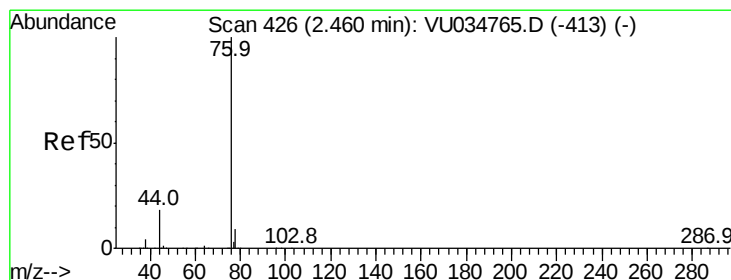
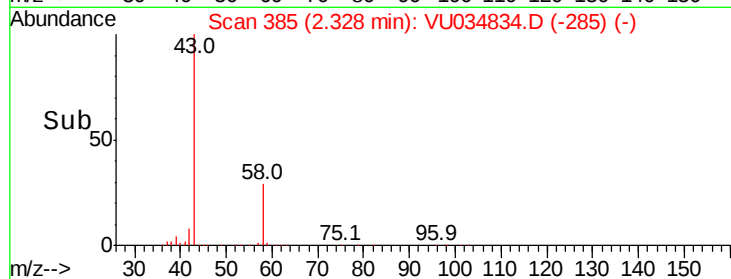
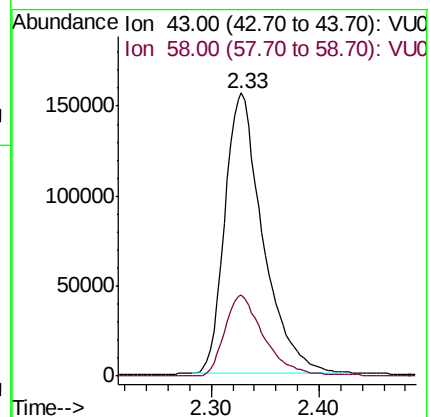
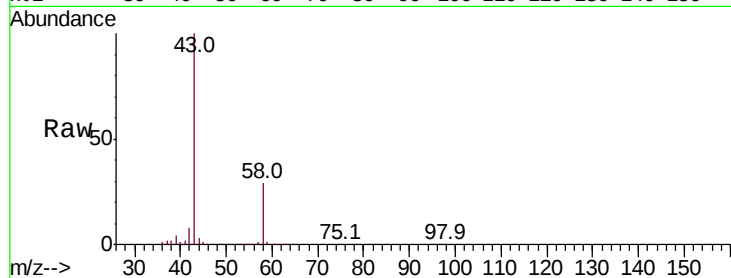
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 381825

Ion Ratio Lower Upper

43 100

58 29.5 0.0 53.4



#14

Carbon disulfide

Concen: 41.819 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034834.D

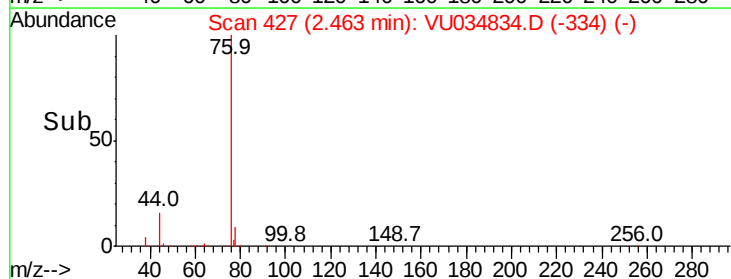
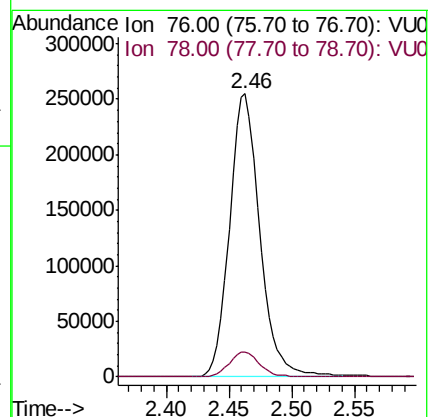
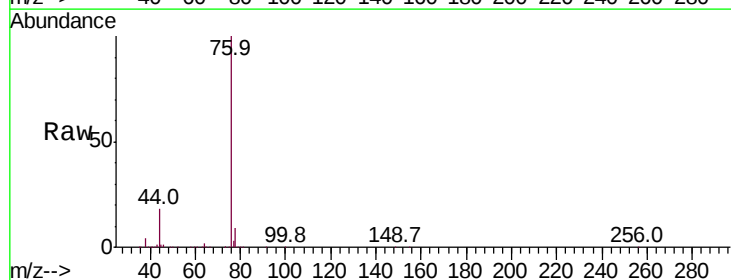
Acq: 26 Sep 2019 10:08

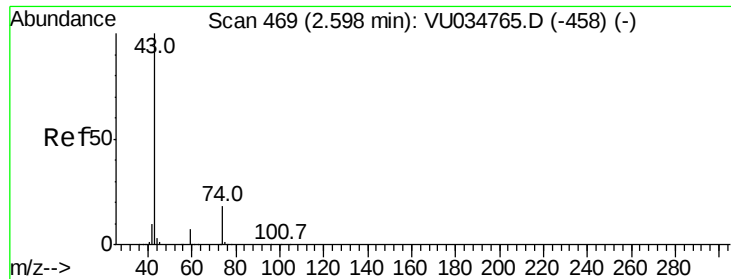
Tgt Ion: 76 Resp: 426763

Ion Ratio Lower Upper

76 100

78 9.0 6.9 10.3

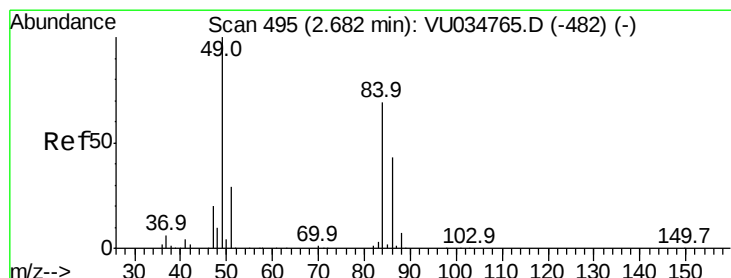
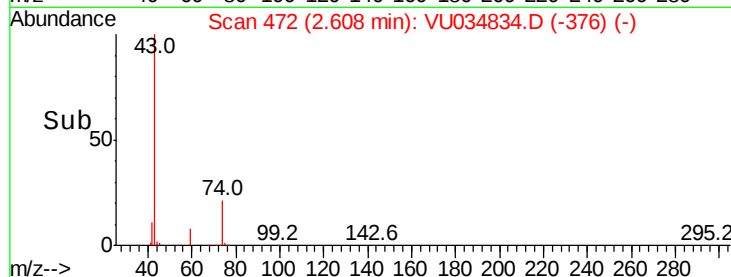
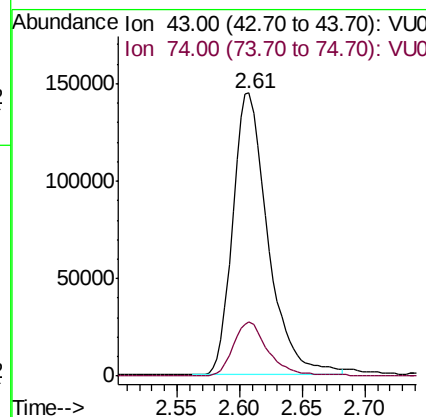
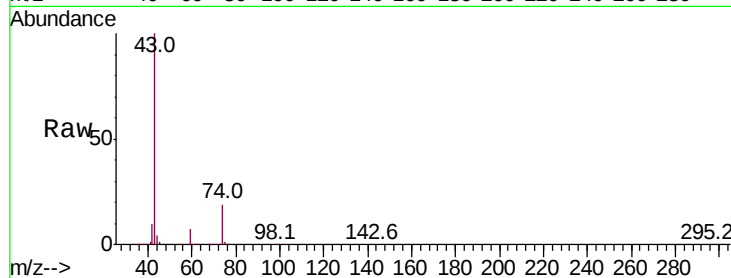




#15
Methyl Acetate
Concen: 50.175 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU034834.D
Acq: 26 Sep 2019 10:08

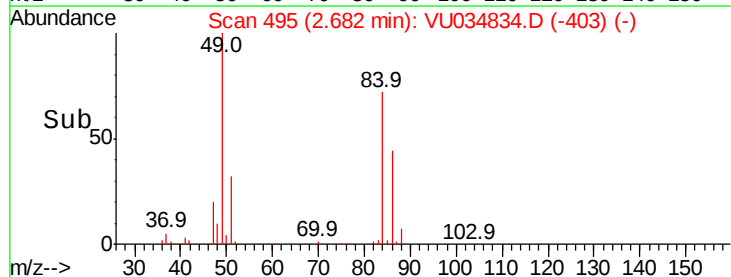
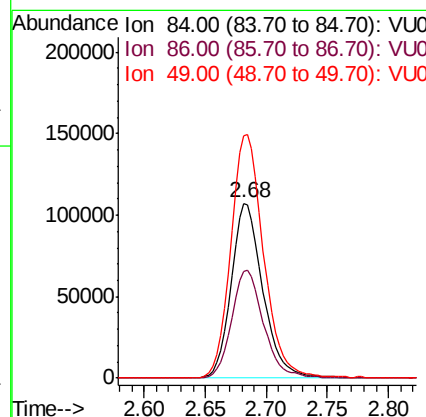
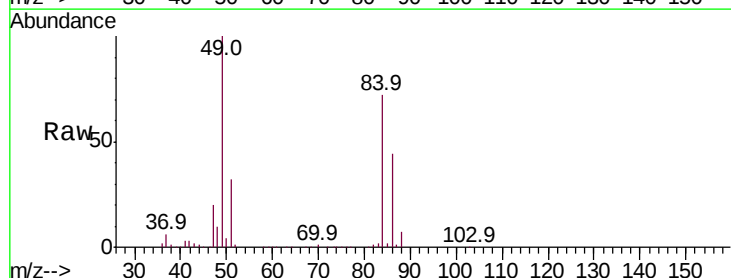
Instrument :
MSVOA_U
ClientSampleId :

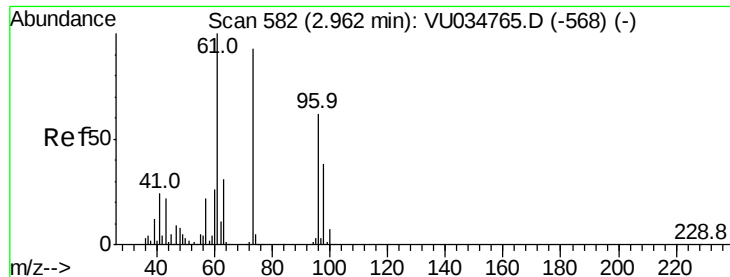
Tot Ion: 43 Resp: 282782
Ion Ratio Lower Upper
43 100
74 19.1 14.4 21.6



#16
Methylene chloride
Concen: 50.723 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU034834.D
Acq: 26 Sep 2019 10:08

Tgt Ion: 84 Resp: 194329
Ion Ratio Lower Upper
84 100
86 61.3 43.0 80.0
49 138.7 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 50.219 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :
MSVOA_U
ClientSampled :

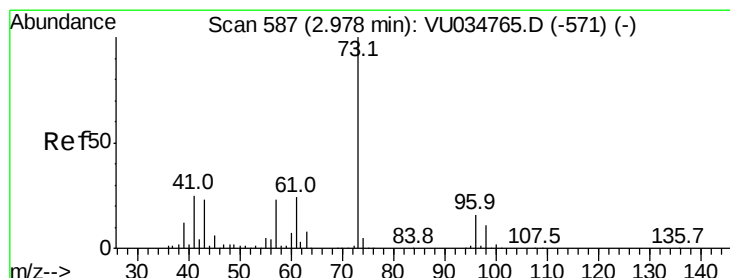
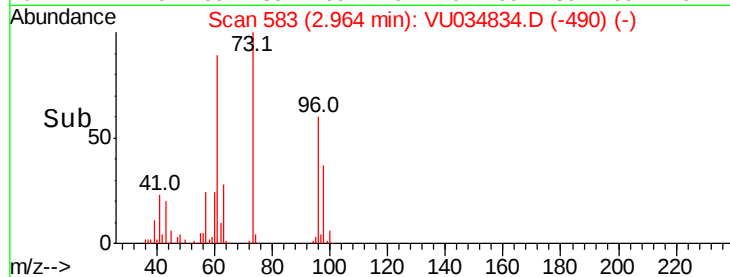
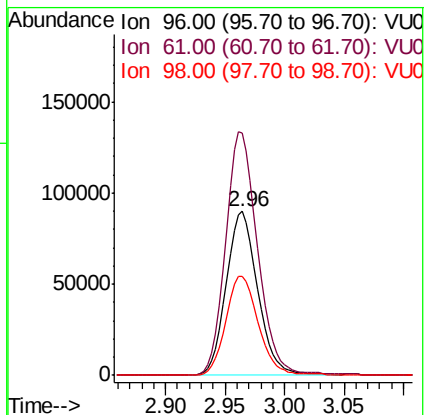
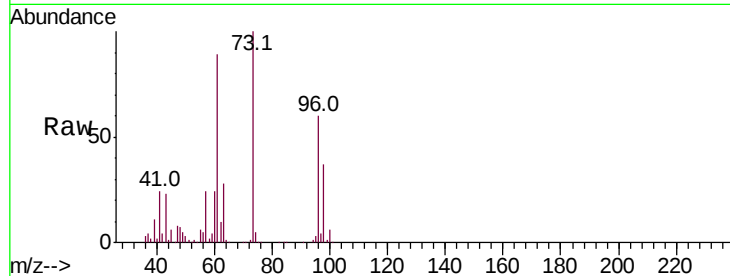
Tot Ion: 96 Resp: 166062

Ion Ratio Lower Upper

96 100

61 147.6 124.0 230.4

98 60.7 46.1 85.7



#18

Methyl tert-butyl Ether

Concen: 49.010 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

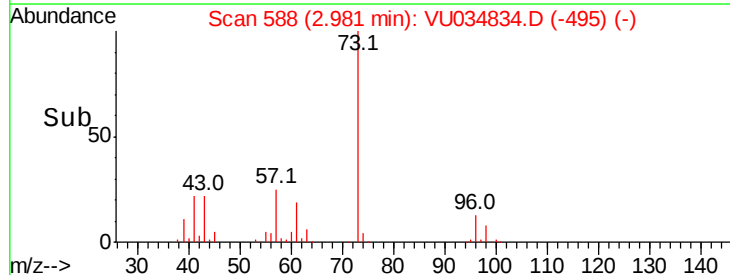
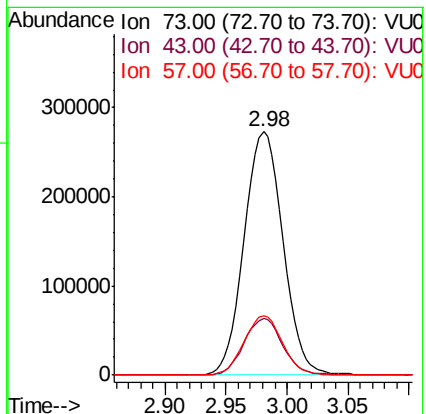
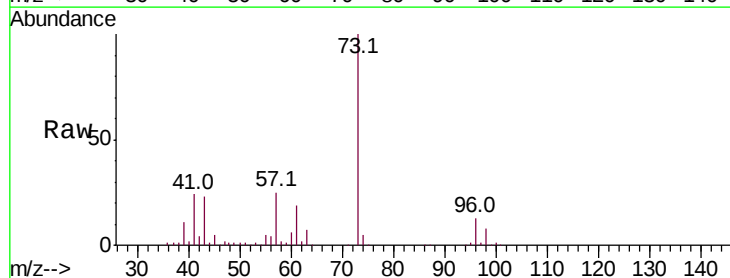
Tgt Ion: 73 Resp: 601252

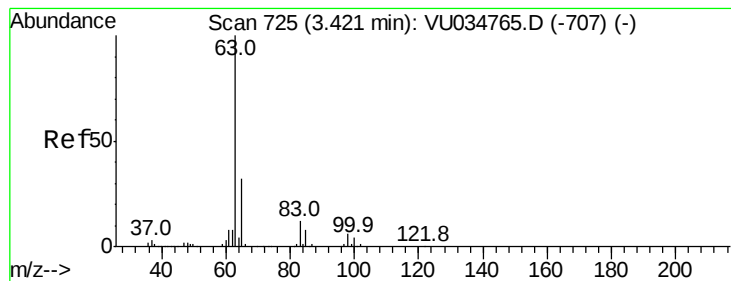
Ion Ratio Lower Upper

73 100

43 22.6 20.9 31.3

57 24.1 19.5 29.3





#19

1,1-Dichloroethane

Concen: 46.451 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

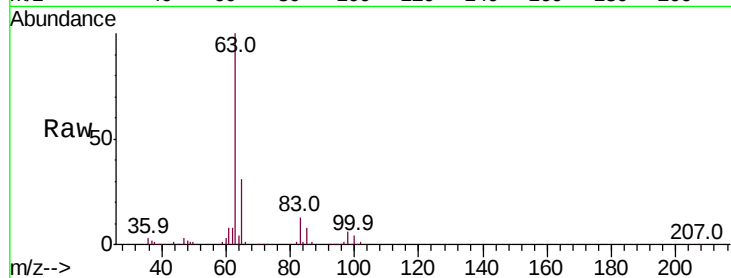
Tot Ion: 63 Resp: 352366

Ion Ratio Lower Upper

63 100

65 30.9 22.0 40.8

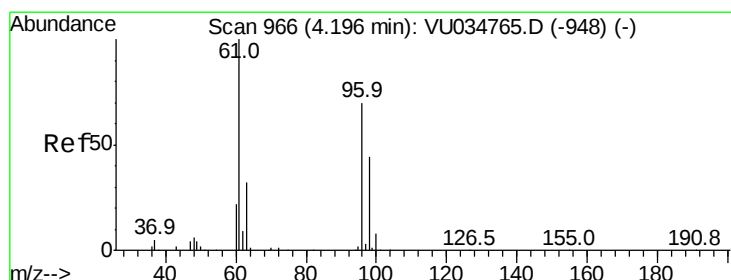
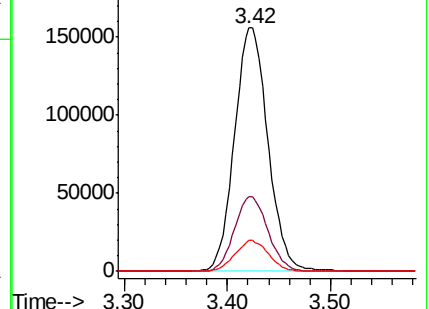
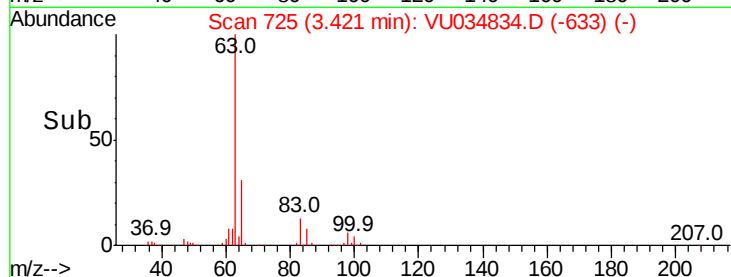
83 12.7 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU034834.D (-633) (-)

Ion 65.00 (64.70 to 65.70): VU034834.D (-633) (-)

Ion 83.00 (82.70 to 83.70): VU034834.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.880 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

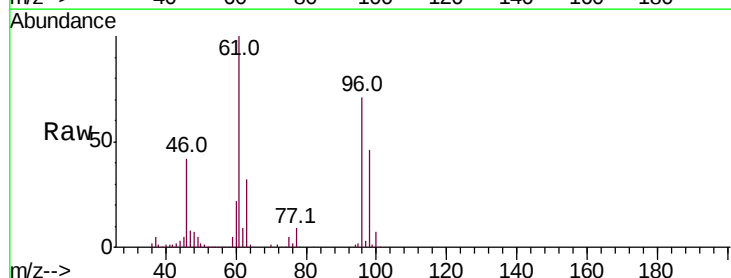
Tgt Ion: 96 Resp: 192858

Ion Ratio Lower Upper

96 100

61 141.3 108.8 202.2

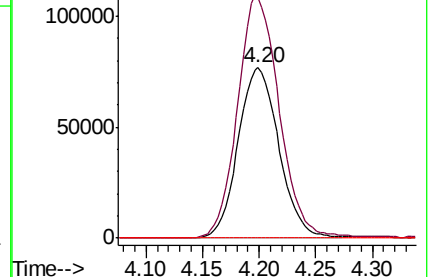
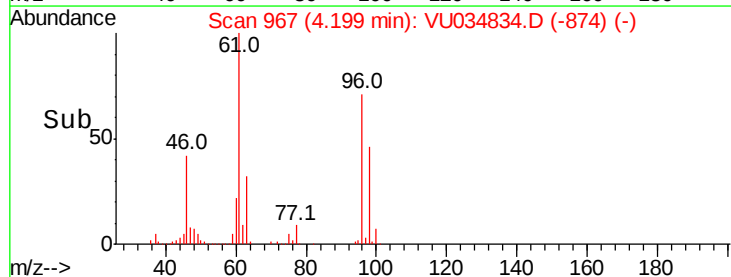
68 0.0 0.0 0.0

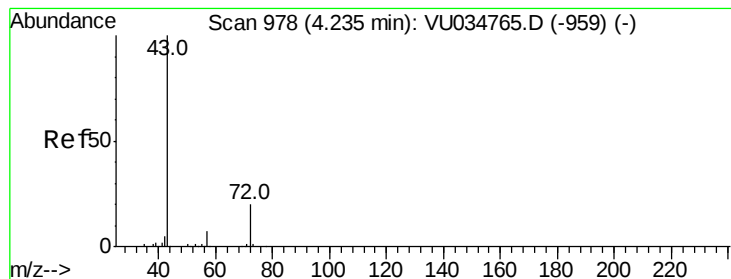


Abundance Ion 96.00 (95.70 to 96.70): VU034834.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU034834.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU034834.D (-874) (-)





#22

2-Butanone

Concen: 93.735 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.02 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

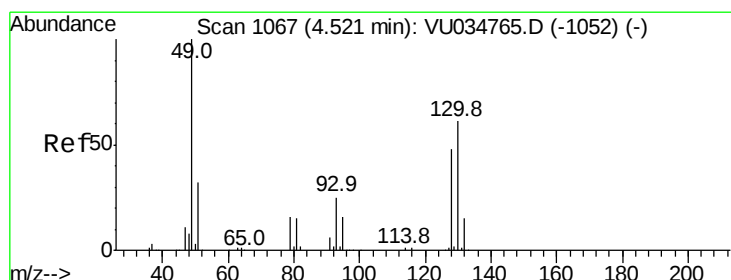
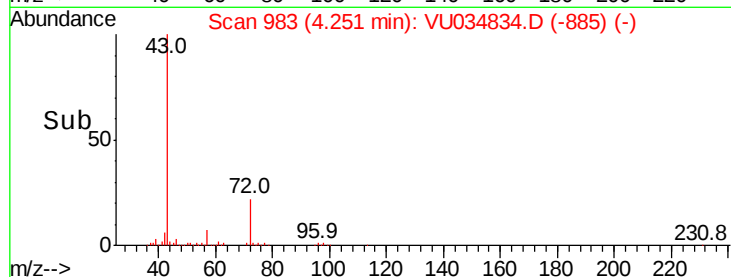
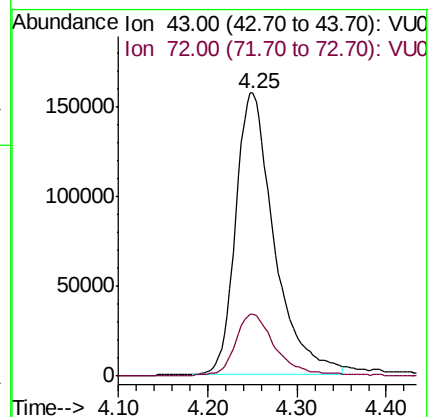
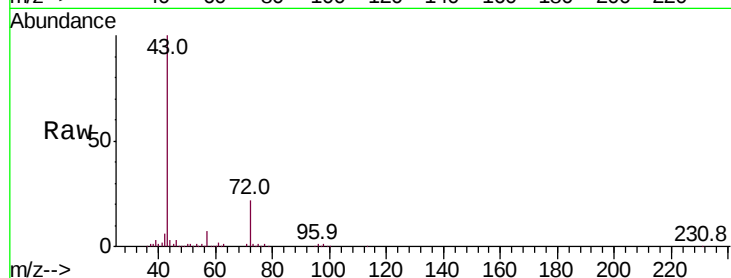
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 470493

Ion Ratio Lower Upper

43 100

72 22.8 10.2 30.6



#23

Bromochloromethane

Concen: 50.365 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Tgt Ion:128 Resp: 93208

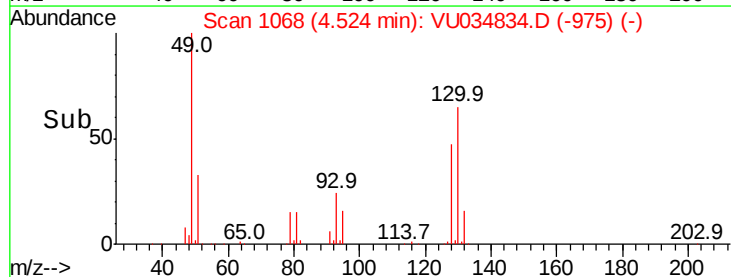
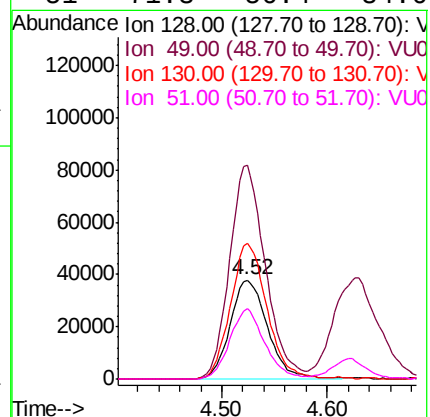
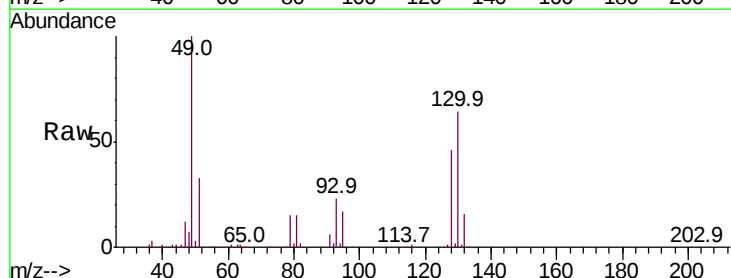
Ion Ratio Lower Upper

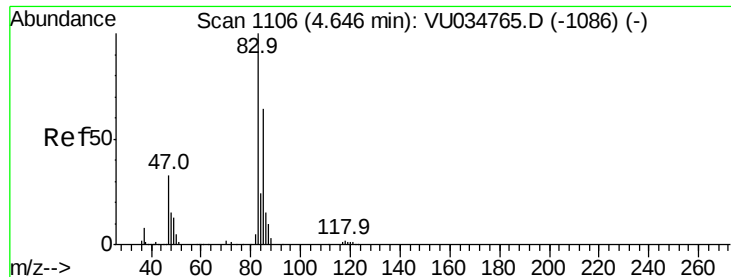
128 100

49 215.5 154.3 286.7

130 136.9 83.0 154.2

51 71.3 56.4 84.6





#25

Chloroform

Concen: 44.967 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

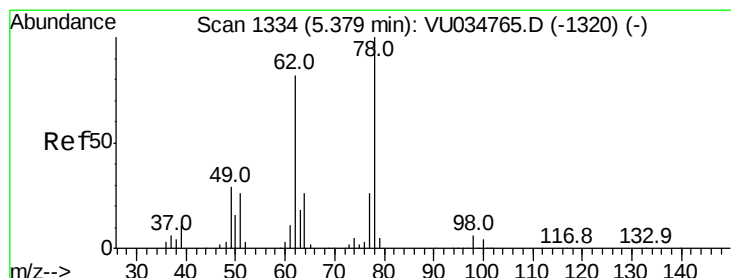
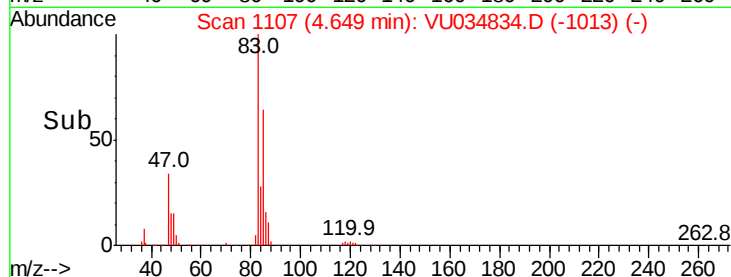
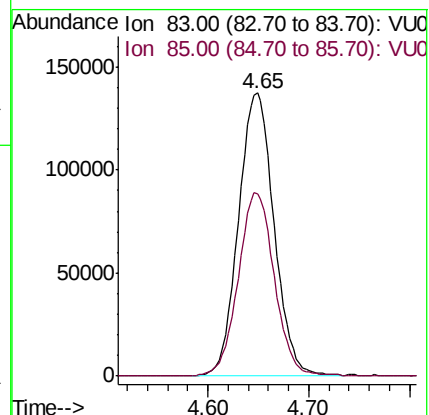
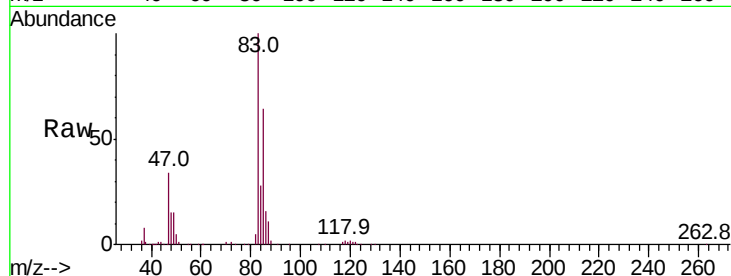
ClientSampleId :

Tot Ion: 83 Resp: 335899

Ion Ratio Lower Upper

83 100

85 64.4 44.0 81.6



#27

1,2-Dichloroethane

Concen: 44.279 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU034834.D

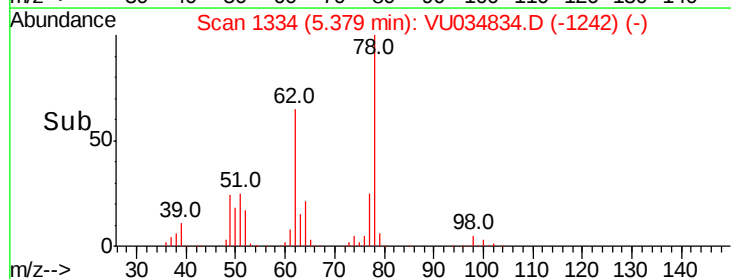
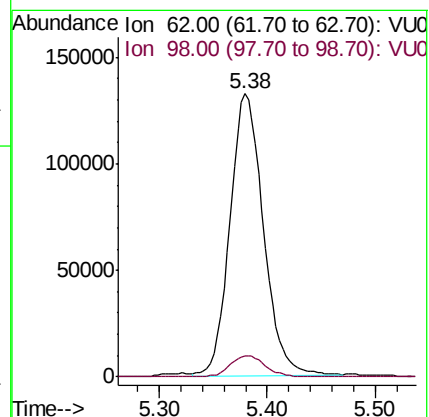
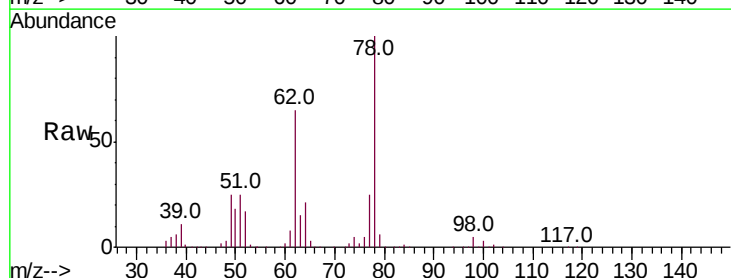
Acq: 26 Sep 2019 10:08

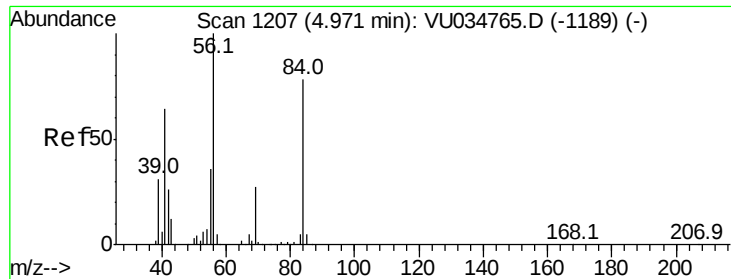
Tgt Ion: 62 Resp: 285721

Ion Ratio Lower Upper

62 100

98 7.3 5.3 7.9

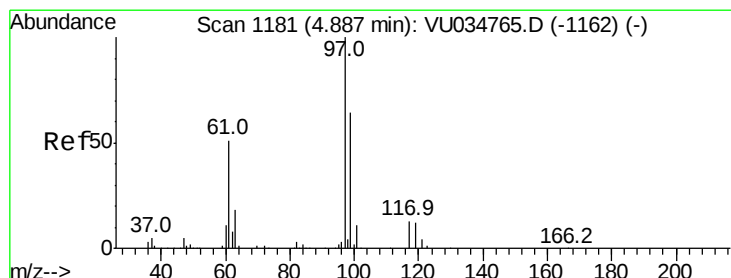
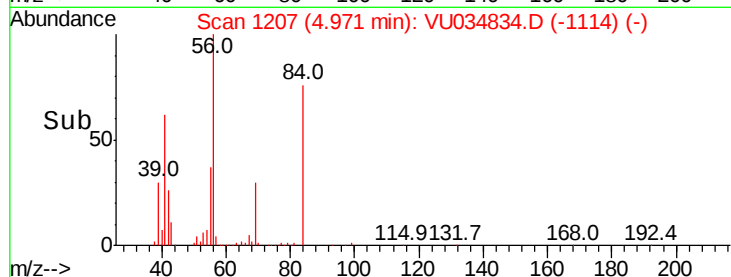
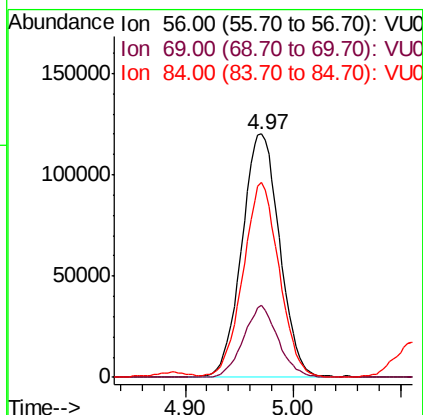
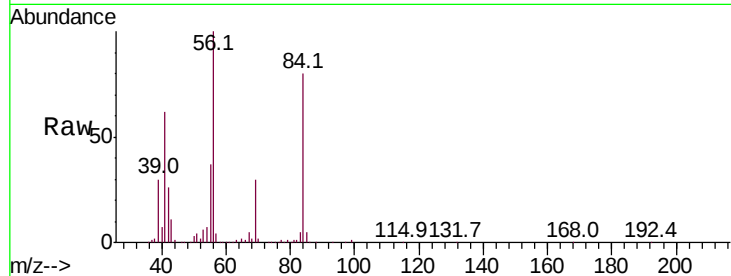




#29
Cyclohexane
Concen: 39.666 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU034834.D
Acq: 26 Sep 2019 10:08

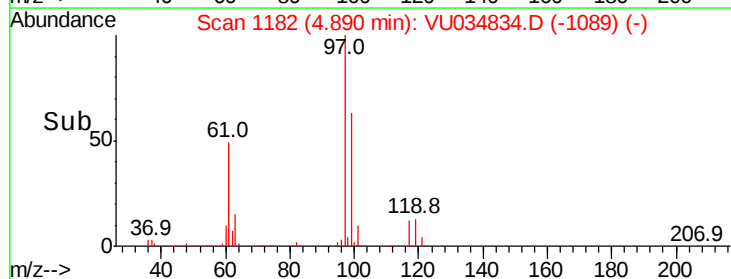
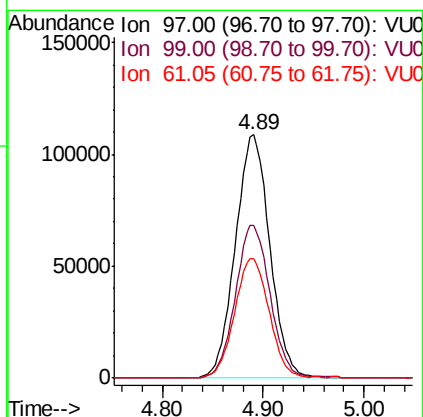
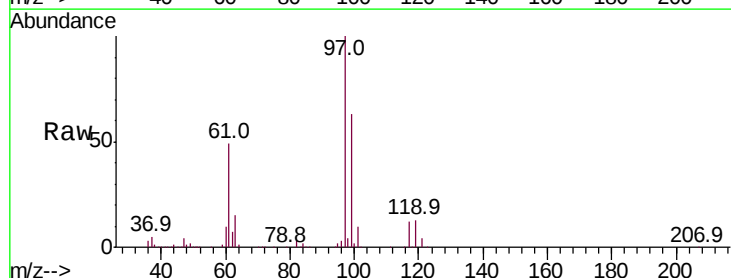
Instrument :
MSVOA_U
ClientSampleId :

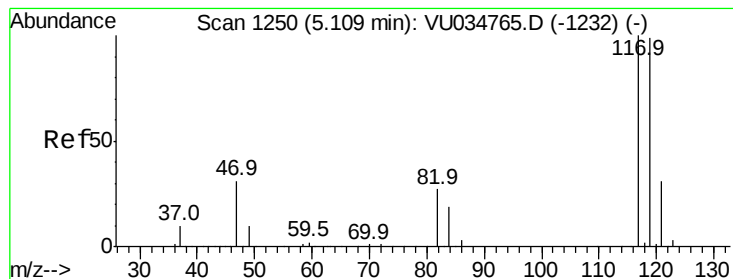
Tot Ion: 56 Resp: 292517
Ion Ratio Lower Upper
56 100
69 27.0 21.7 32.5
84 76.1 58.8 88.2



#30
1,1,1-Trichloroethane
Concen: 42.414 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU034834.D
Acq: 26 Sep 2019 10:08

Tgt Ion: 97 Resp: 257915
Ion Ratio Lower Upper
97 100
99 63.0 51.8 77.8
61 49.1 43.4 65.0





#31

Carbon tetrachloride

Concen: 40.849 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

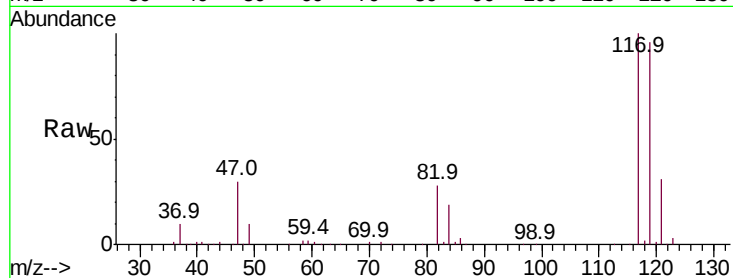
ClientSampled :

Tot Ion:117 Resp: 211702

Ion Ratio Lower Upper

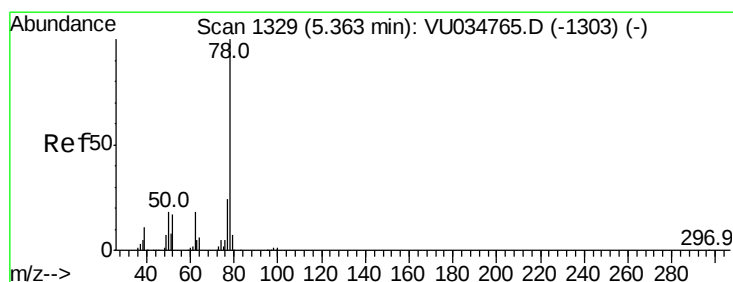
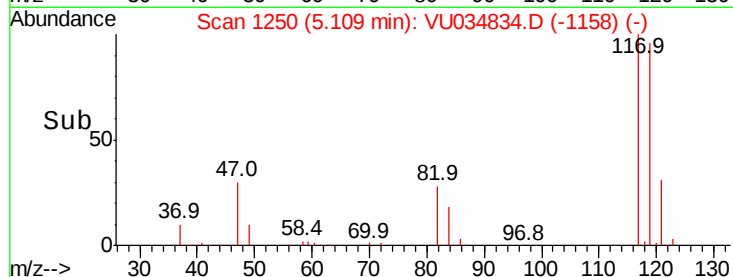
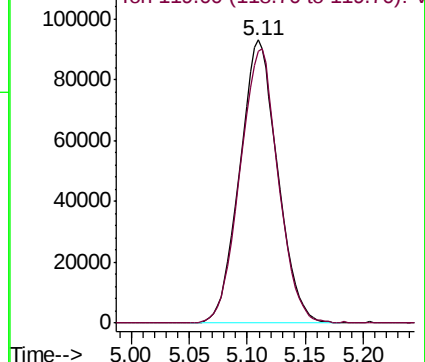
117 100

119 97.4 74.8 112.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.514 ug/L

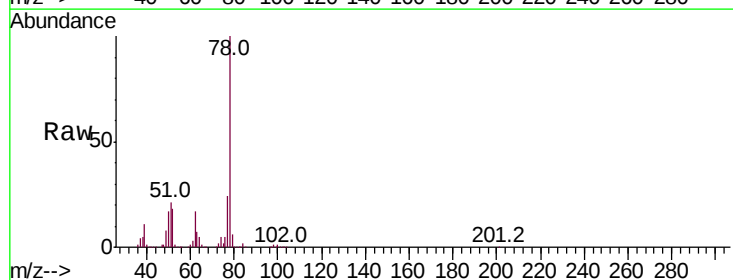
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

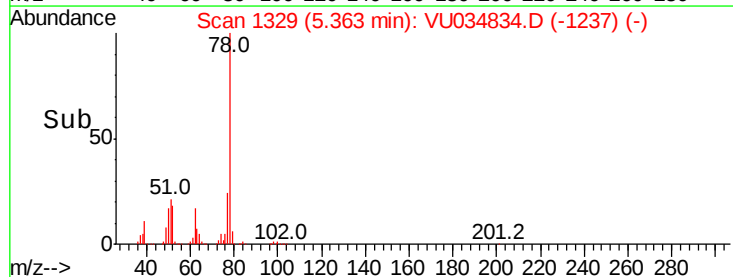
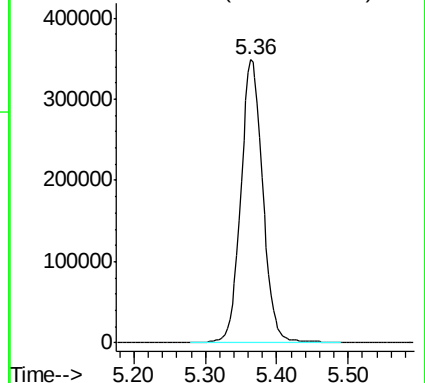
Lab File: VU034834.D

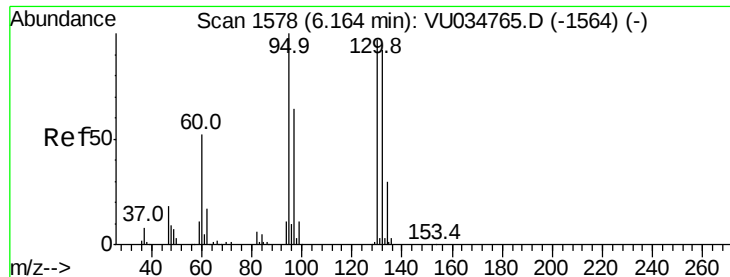
Acq: 26 Sep 2019 10:08

Tgt Ion: 78 Resp: 751748



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 46.715 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 178773

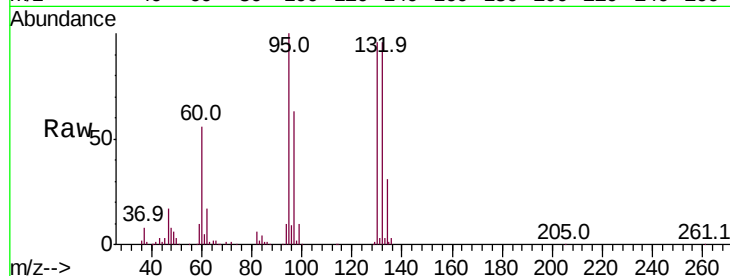
Ion Ratio Lower Upper

95 100

97 62.7 43.7 81.1

132 96.0 61.0 113.2

130 96.4 65.7 121.9

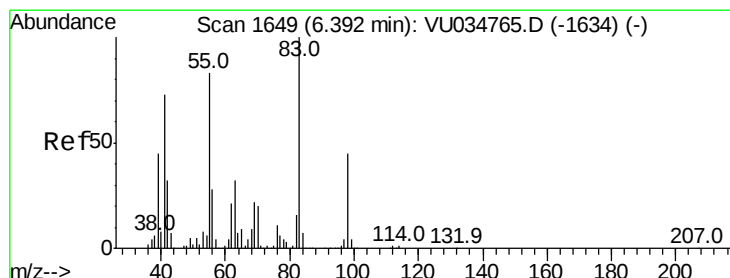
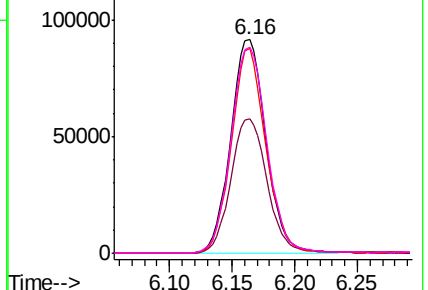
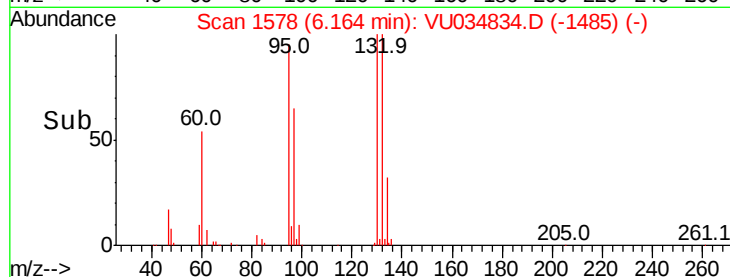


Abundance Ion 95.00 (94.70 to 95.70): VU034834.D (-1564) (-)

Ion 97.00 (96.70 to 97.70): VU034834.D (-1564) (-)

Ion 132.00 (131.70 to 132.70): VU034834.D (-1564) (-)

Ion 130.00 (129.70 to 130.70): VU034834.D (-1564) (-)



#35

Methylcyclohexane

Concen: 40.351 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

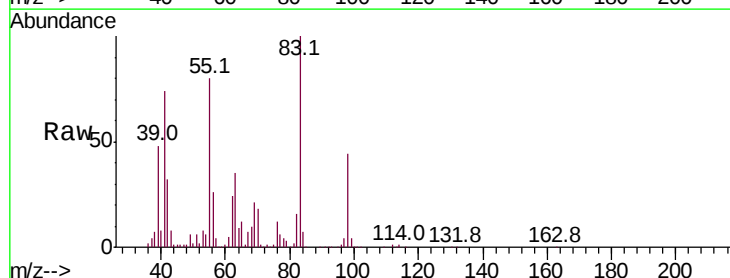
Tgt Ion: 83 Resp: 262049

Ion Ratio Lower Upper

83 100

55 79.6 71.6 107.4

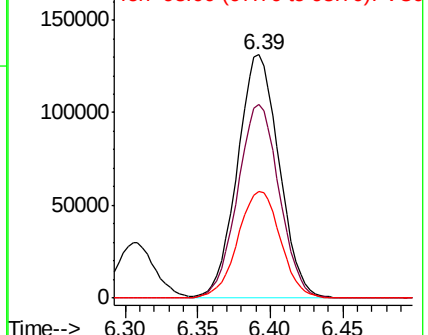
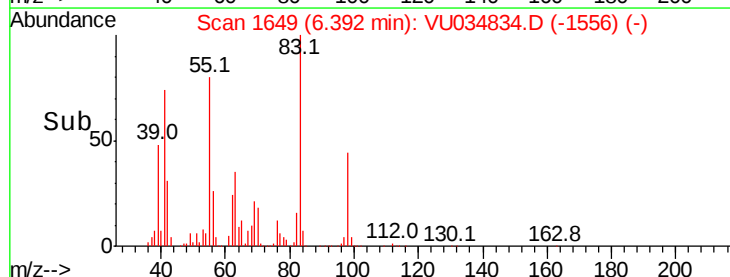
98 45.0 35.7 53.5

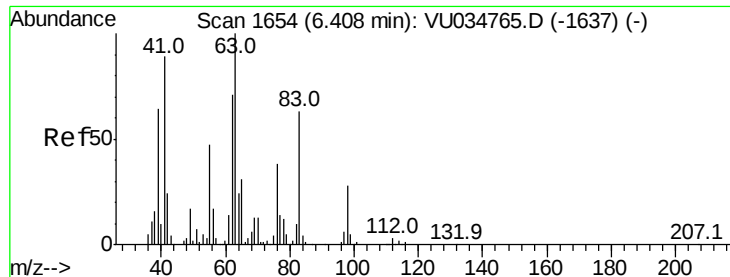


Abundance Ion 83.00 (82.70 to 83.70): VU034834.D (-1556) (-)

Ion 55.00 (54.70 to 55.70): VU034834.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU034834.D (-1556) (-)

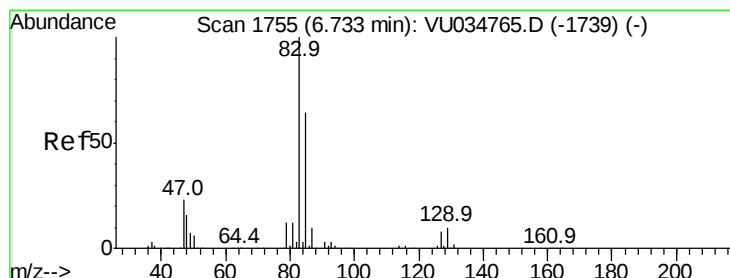
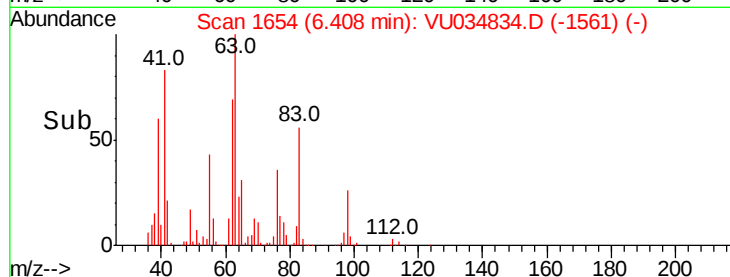
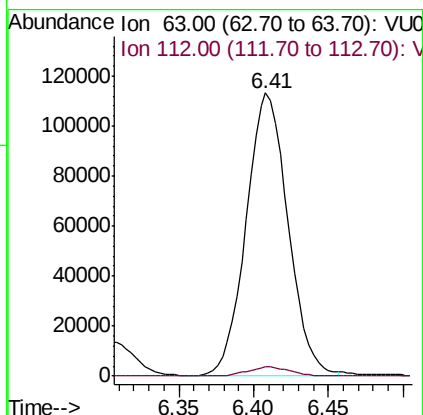
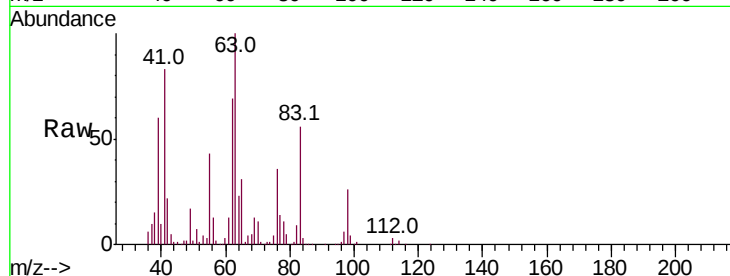




#37
 1,2-Dichloropropane
 Concen: 47.597 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

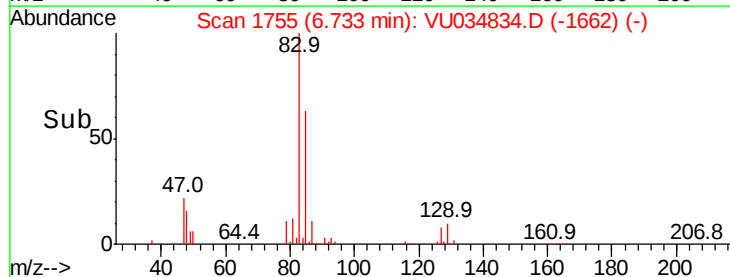
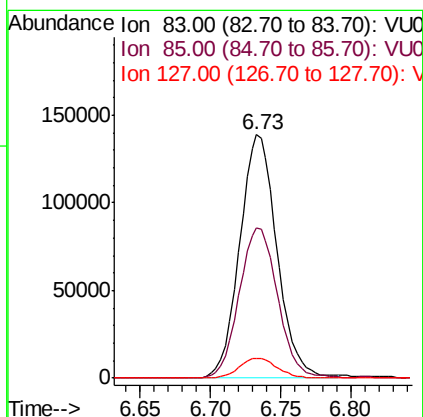
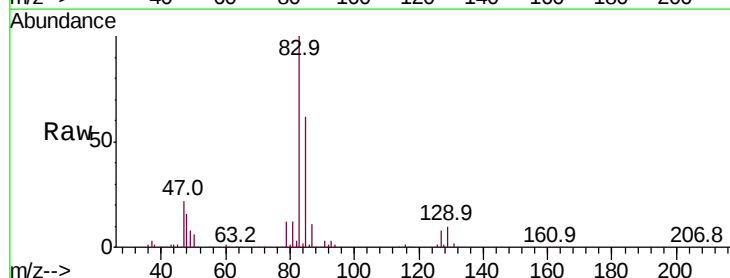
Instrument :
 MSVOA_U
 ClientSampleId :

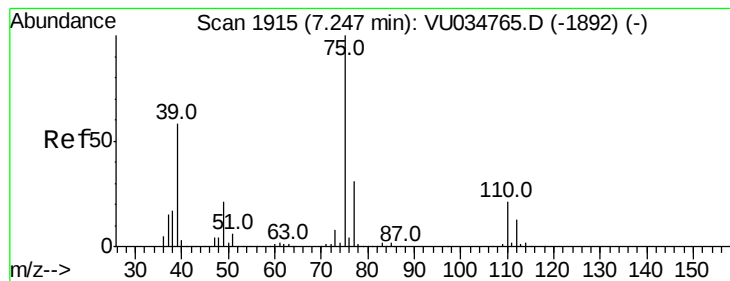
Tot Ion: 63 Resp: 219611
 Ion Ratio Lower Upper
 63 100
 112 3.3 2.4 3.6



#38
 Bromodichloromethane
 Concen: 45.960 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

Tgt Ion: 83 Resp: 257167
 Ion Ratio Lower Upper
 83 100
 85 61.9 45.5 84.5
 127 7.9 6.1 9.1



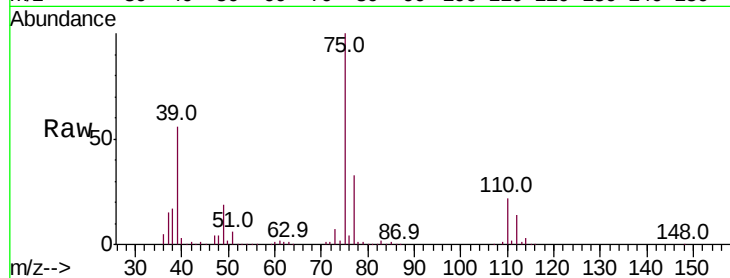


#39

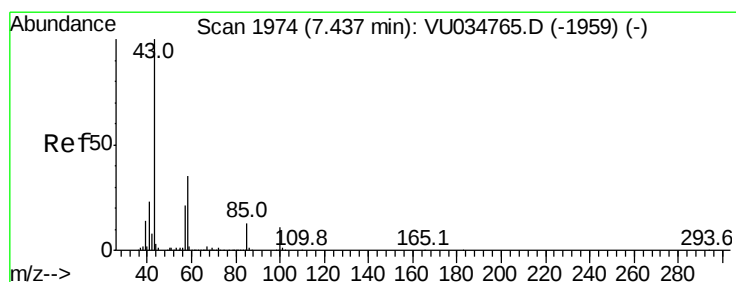
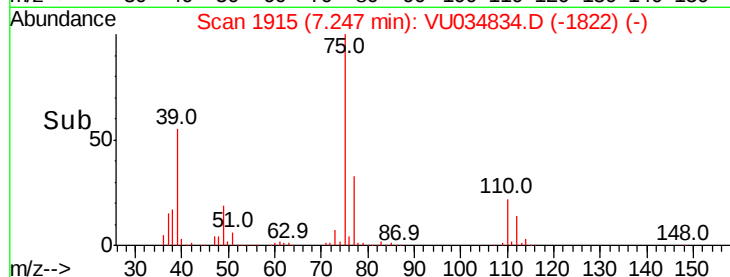
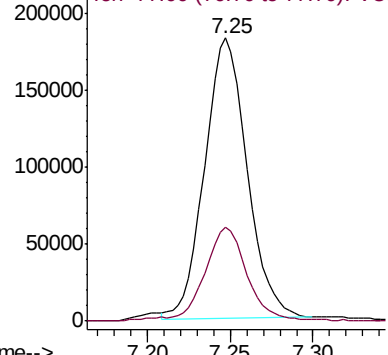
cis-1,3-Dichloropropene
Concen: 46.950 ug/L
RT: 7.25 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VU034834.D
Acq: 26 Sep 2019 10:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 75 Resp: 325490
Ion Ratio Lower Upper
75 100
77 33.2 21.4 39.8



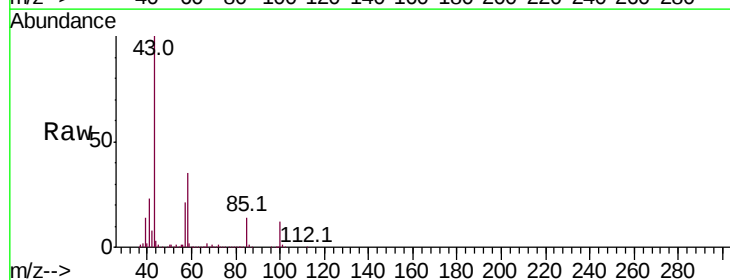
Abundance Ion 75.00 (74.70 to 75.70): VU034834.D (-1892) (-)
Ion 77.00 (76.70 to 77.70): VU034834.D (-1892) (-)



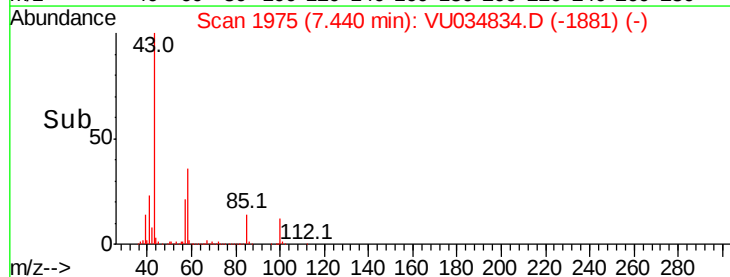
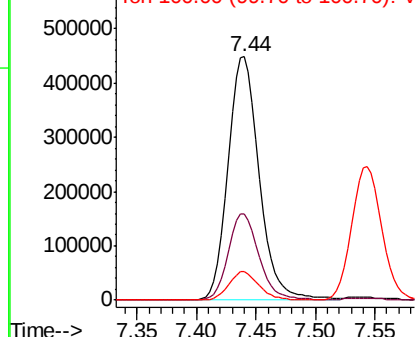
#40

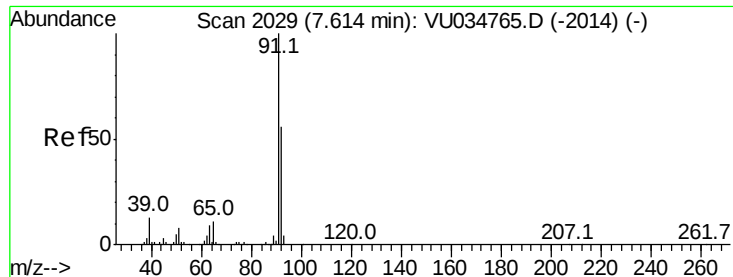
4-Methyl-2-pentanone
Concen: 92.324 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034834.D
Acq: 26 Sep 2019 10:08

Tgt Ion: 43 Resp: 813273
Ion Ratio Lower Upper
43 100
58 35.1 25.2 37.8
100 11.4 7.7 11.5



Abundance Ion 43.00 (42.70 to 43.70): VU034834.D (-1959) (-)
Ion 58.00 (57.70 to 58.70): VU034834.D (-1959) (-)
Ion 100.00 (99.70 to 100.70): VU034834.D (-1959) (-)





#42

Toluene

Concen: 48.162 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

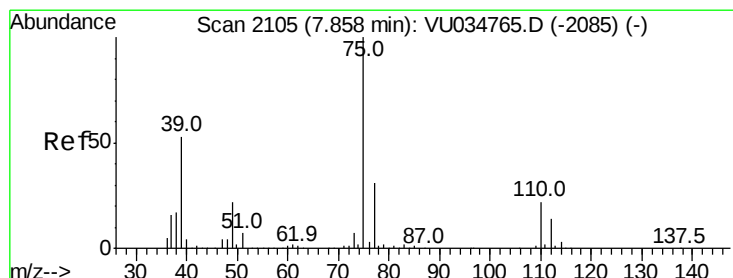
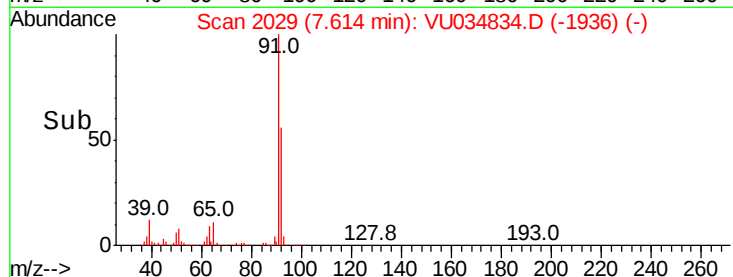
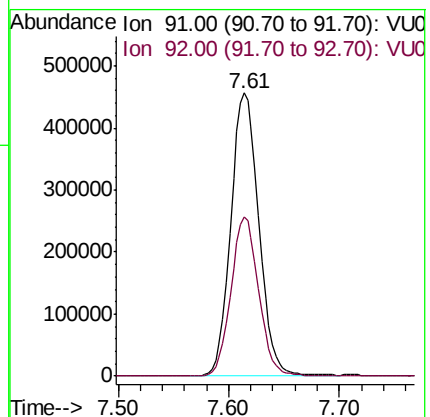
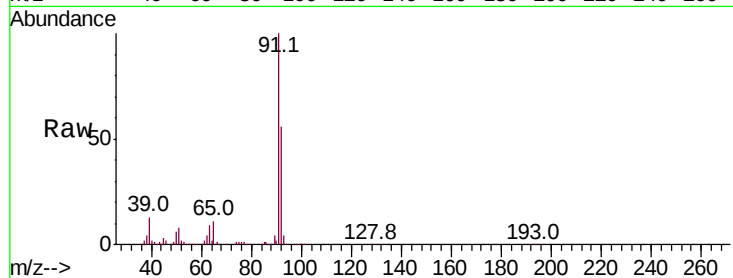
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 806533

Ion Ratio Lower Upper

91 100

92 56.3 38.2 71.0



#44

trans-1,3-Dichloropropene

Concen: 48.554 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034834.D

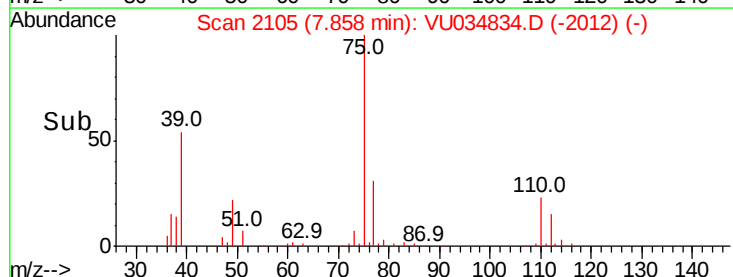
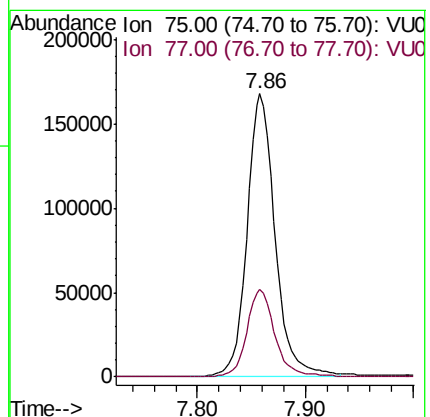
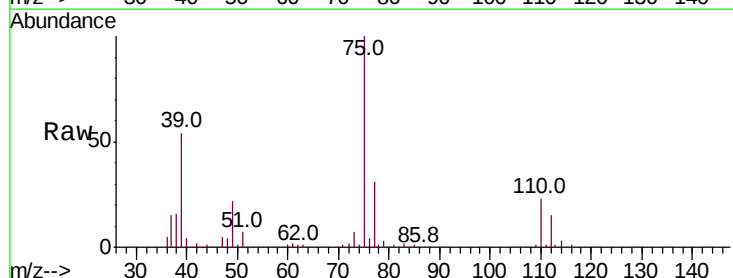
Acq: 26 Sep 2019 10:08

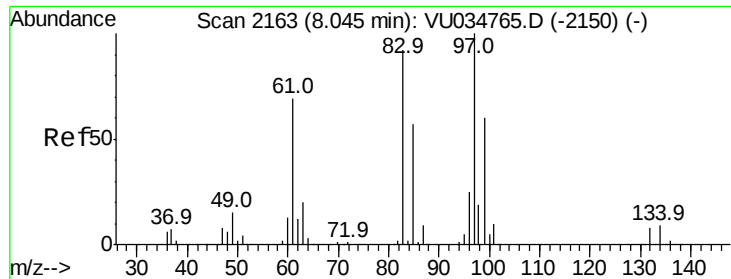
Tgt Ion: 75 Resp: 303453

Ion Ratio Lower Upper

75 100

77 30.8 21.4 39.8

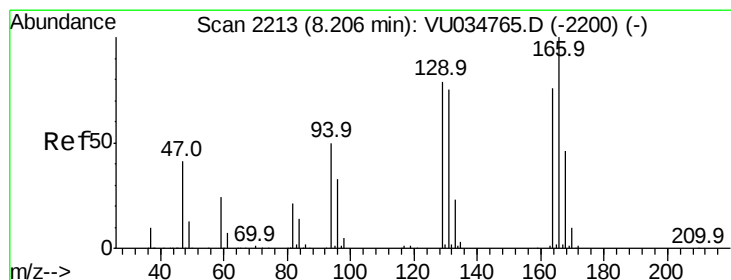
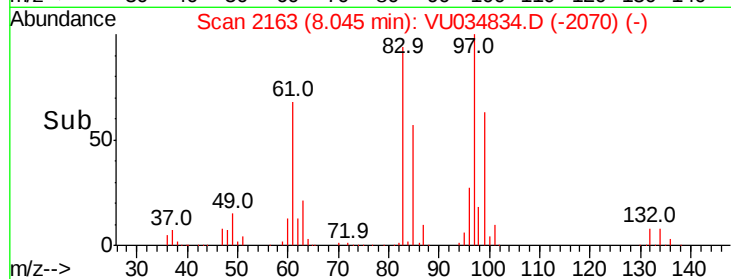
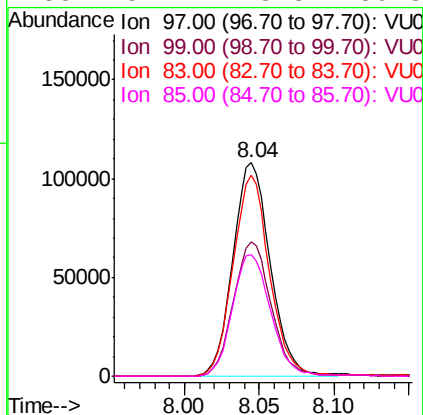
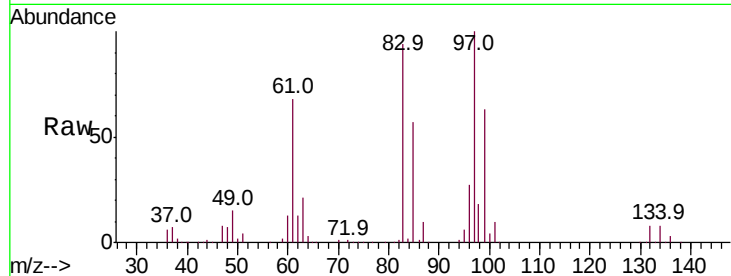




#45
 1,1,2-Trichloroethane
 Concen: 50.868 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

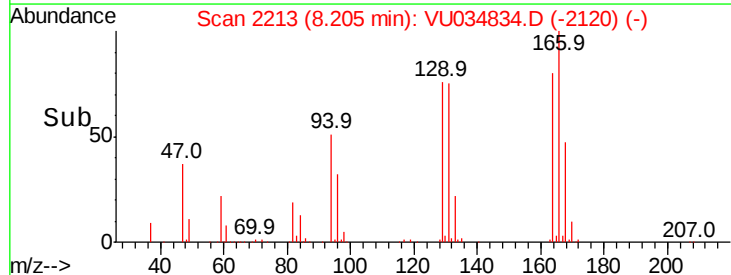
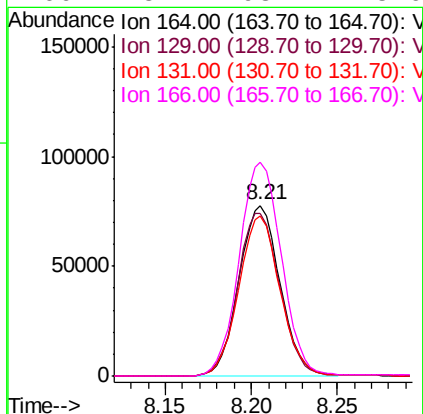
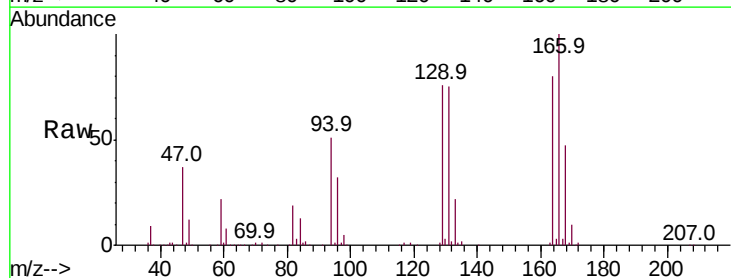
Instrument :
 MSVOA_U
 ClientSampleId :

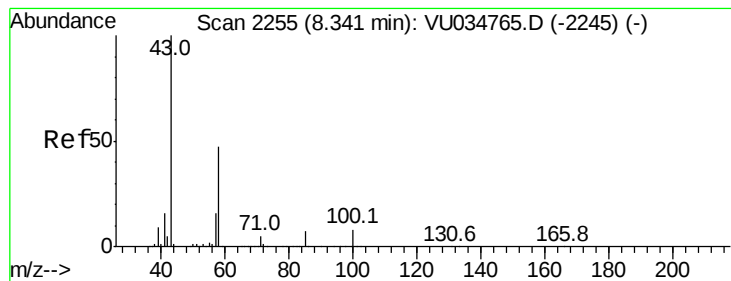
Tot Ion:	97	Resp:	188000
Ion	Ratio	Lower	Upper
97	100		
99	62.7	43.6	81.0
83	94.1	66.9	124.3
85	57.1	43.3	80.3



#46
 Tetrachloroethene
 Concen: 48.060 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

Tgt Ion:	164	Resp:	129371
Ion	Ratio	Lower	Upper
164	100		
129	95.7	71.9	133.5
131	93.9	66.3	123.1
166	125.4	93.4	173.6





#48

2-Hexanone

Concen: 97.252 ug/L

RT: 8.34 min Scan# 2255

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 43 Resp: 669091

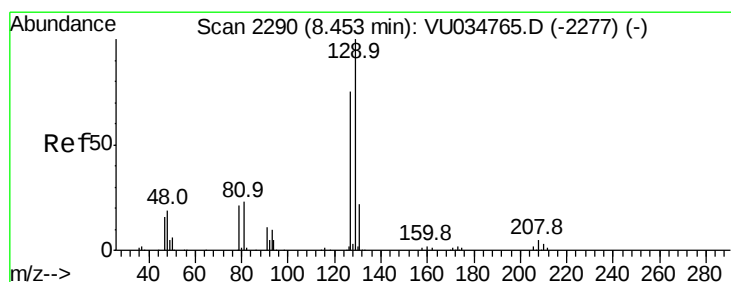
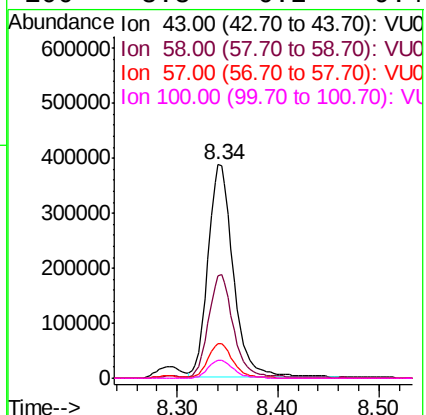
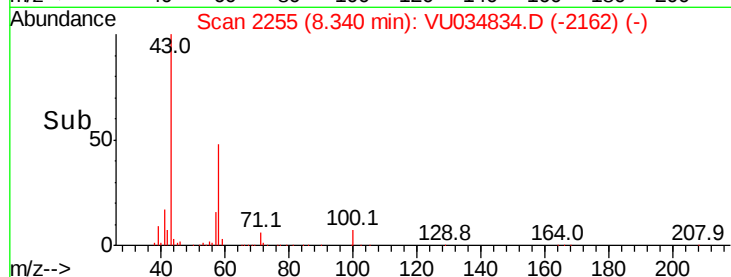
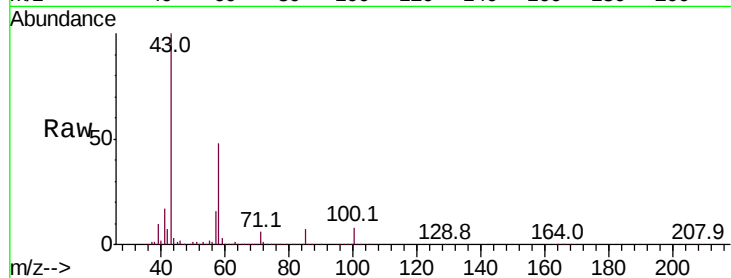
Ion Ratio Lower Upper

43 100

58 48.1 35.3 52.9

57 16.3 12.1 18.1

100 8.8 6.2 9.4



#49

Dibromochloromethane

Concen: 49.526 ug/L

RT: 8.45 min Scan# 2290

Delta R.T. -0.00 min

Lab File: VU034834.D

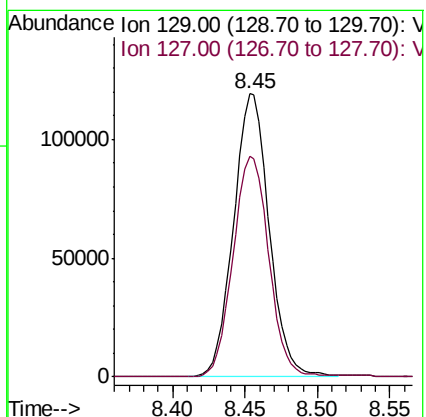
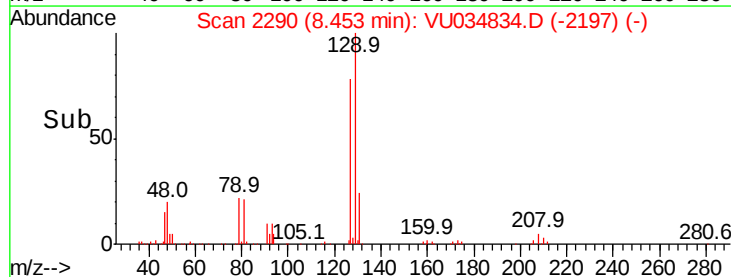
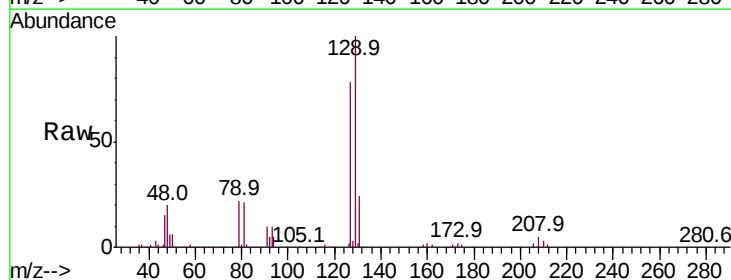
Acq: 26 Sep 2019 10:08

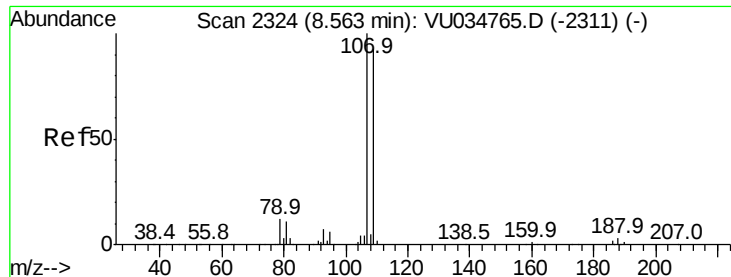
Tgt Ion: 129 Resp: 204025

Ion Ratio Lower Upper

129 100

127 77.7 55.5 103.1





#50

1,2-Dibromoethane

Concen: 51.529 ug/L

RT: 8.56 min Scan# 2324

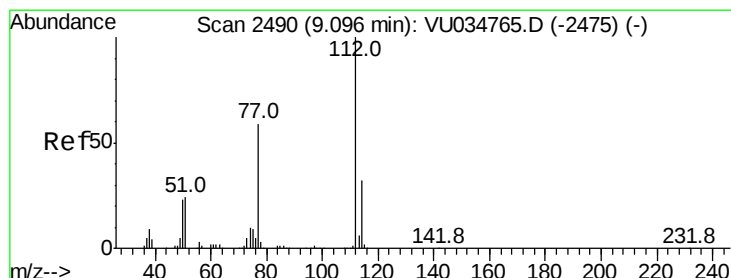
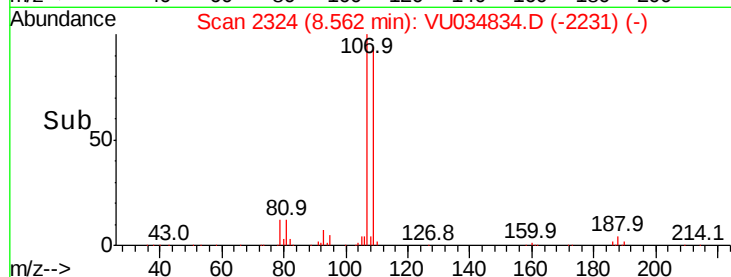
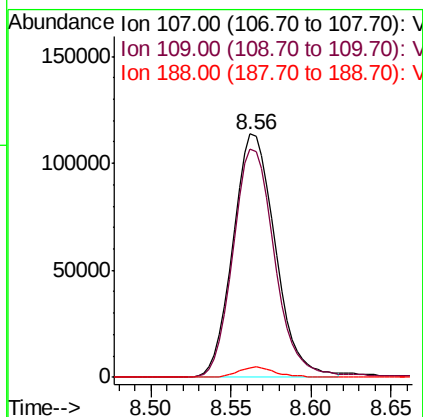
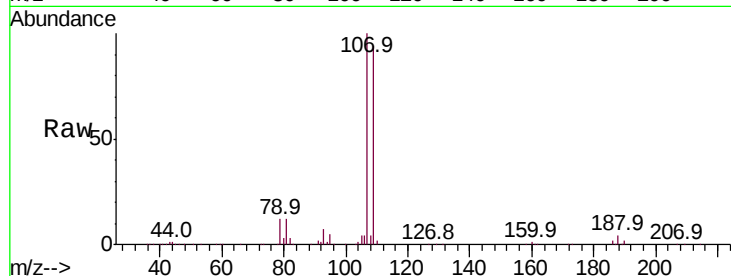
Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	107	Resp:	205251
Ion	Ratio	Lower	Upper
107	100		
109	93.9	65.5	121.6
188	3.7	2.7	4.1



#51

Chlorobenzene

Concen: 49.413 ug/L

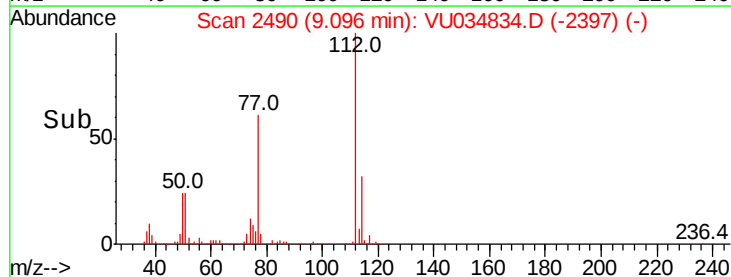
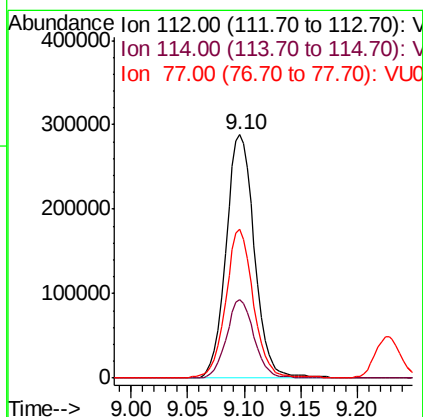
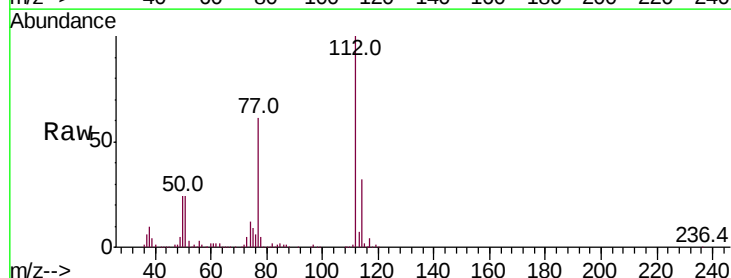
RT: 9.10 min Scan# 2490

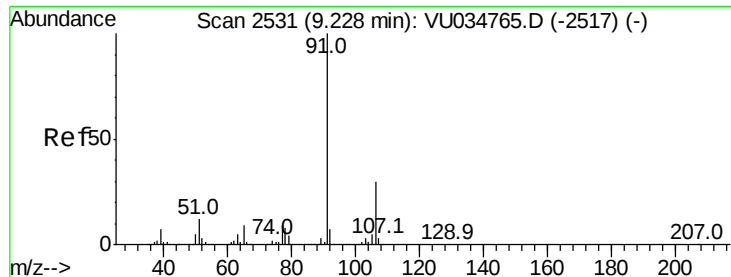
Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Tgt Ion:	112	Resp:	503031
Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.8	42.4
77	61.1	51.5	77.3





#52

Ethylbenzene

Concen: 45.785 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

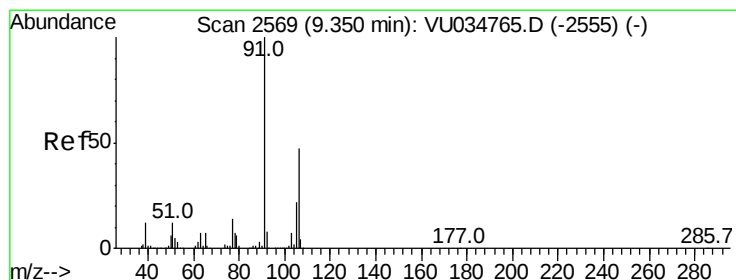
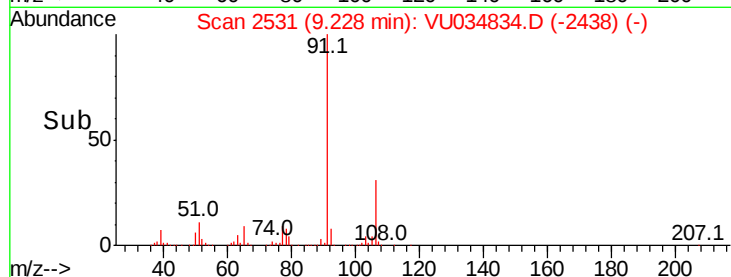
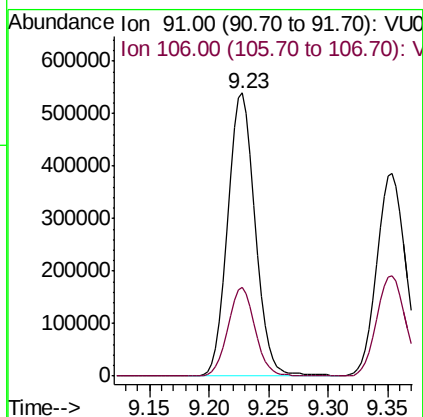
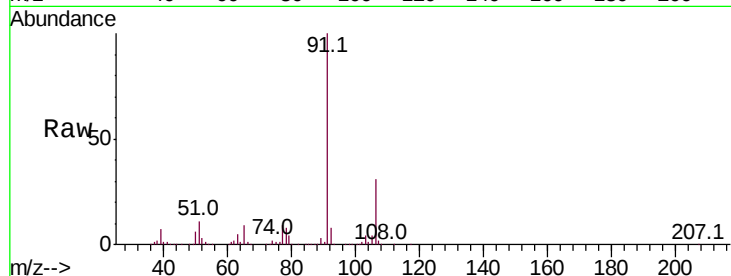
ClientSampleId :

Tot Ion: 91 Resp: 863417

Ion Ratio Lower Upper

91 100

106 31.2 20.6 38.4



#53

m,p-Xylene

Concen: 48.839 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034834.D

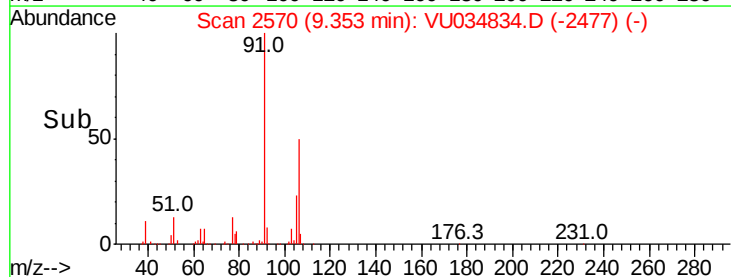
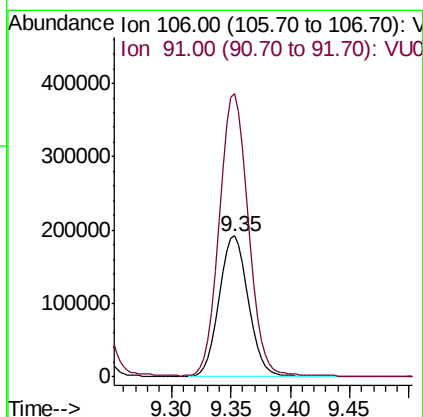
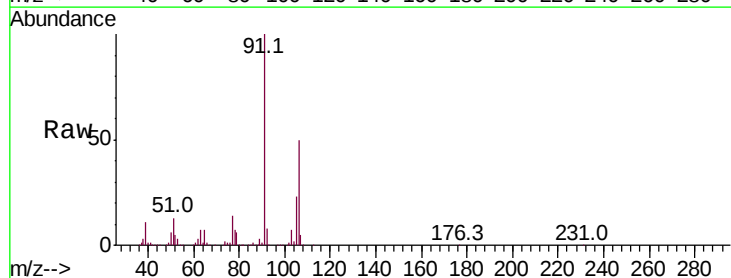
Acq: 26 Sep 2019 10:08

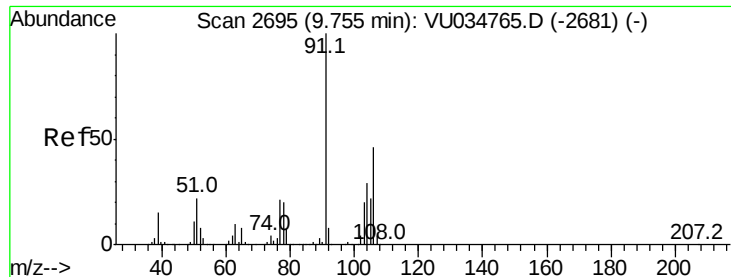
Tgt Ion: 106 Resp: 326210

Ion Ratio Lower Upper

106 100

91 201.1 146.9 272.7





#54

o-xylene

Concen: 47.867 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

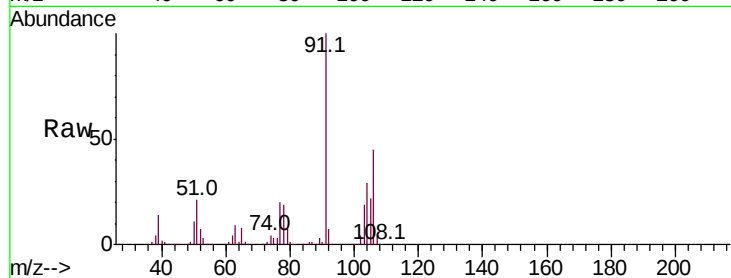
ClientSampled :

Tot Ion:106 Resp: 316231

Ion Ratio Lower Upper

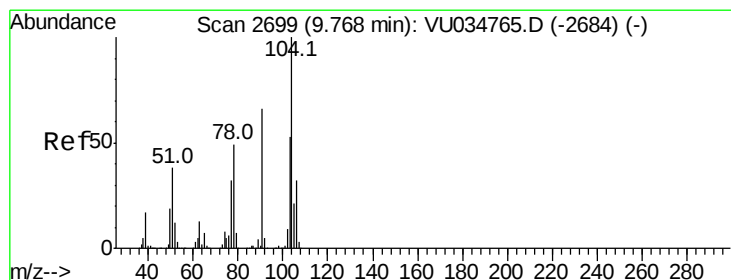
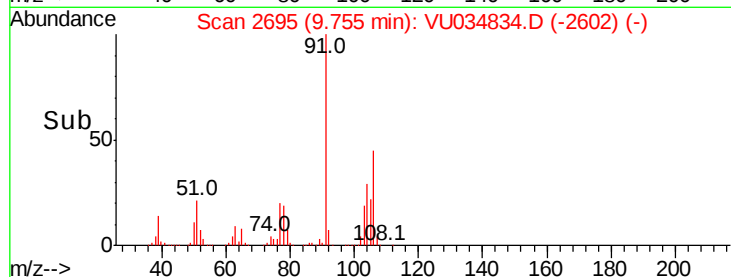
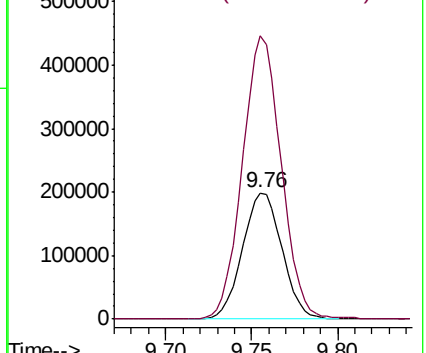
106 100

91 223.9 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.624 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VU034834.D

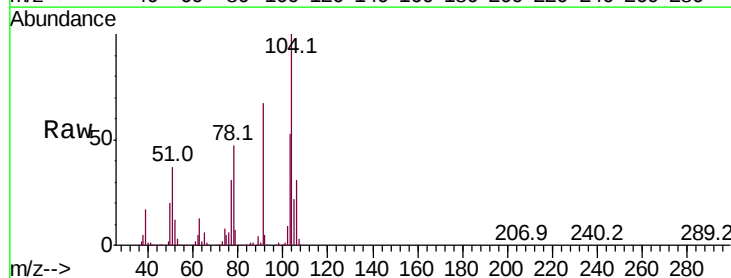
Acq: 26 Sep 2019 10:08

Tgt Ion:104 Resp: 554935

Ion Ratio Lower Upper

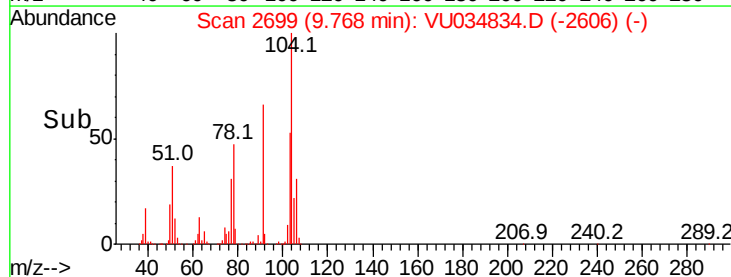
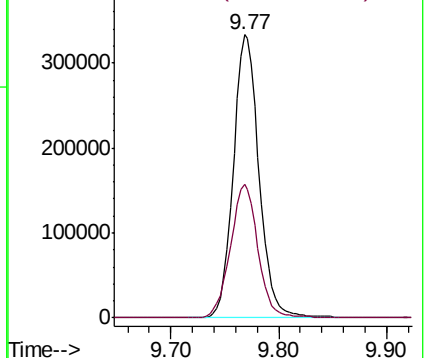
104 100

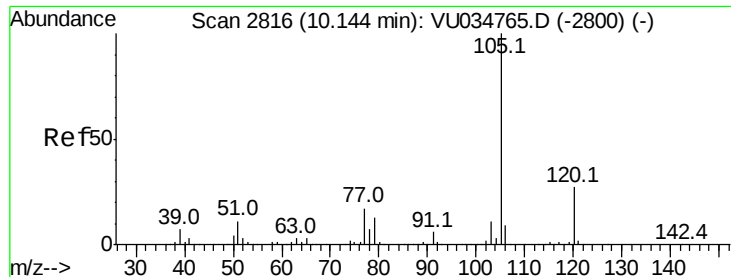
78 47.3 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 45.544 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

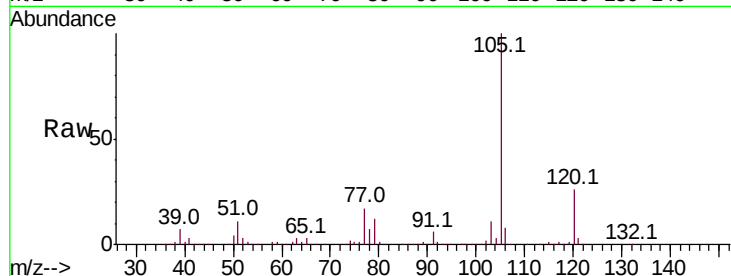
Tot Ion:105 Resp: 811280

Ion Ratio Lower Upper

105 100

120 26.1 20.4 30.6

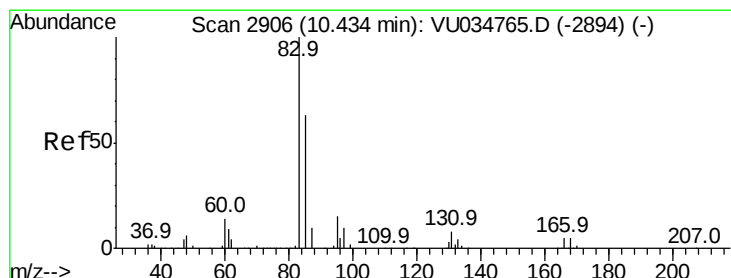
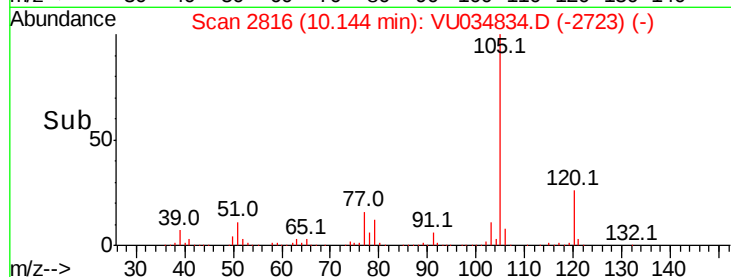
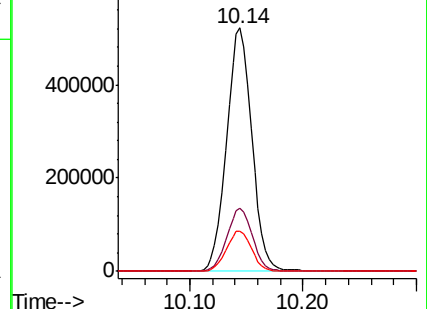
77 16.5 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.767 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

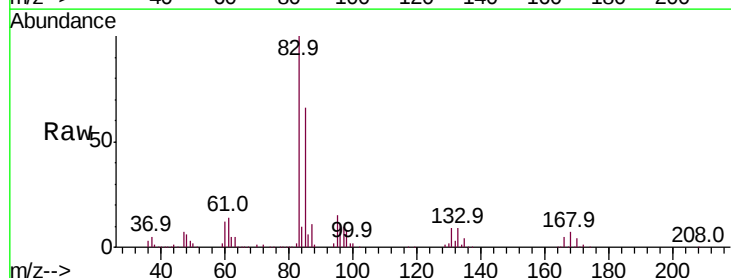
Tgt Ion: 83 Resp: 346176

Ion Ratio Lower Upper

83 100

85 66.2 44.6 82.8

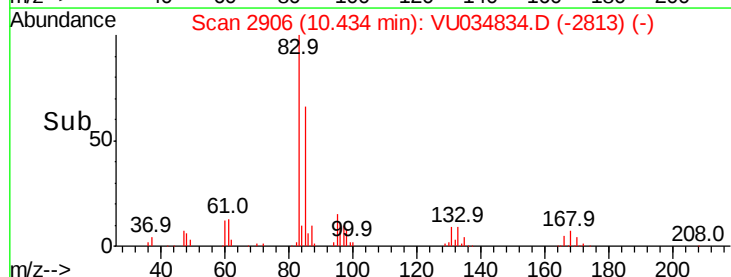
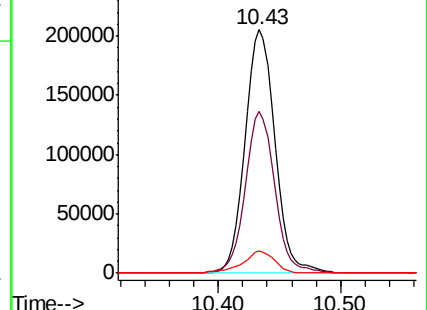
131 9.2 6.6 10.0

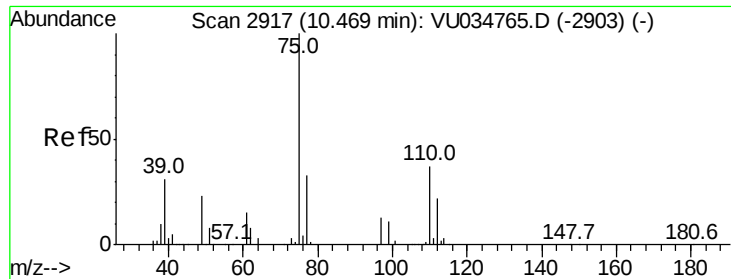


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.056 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

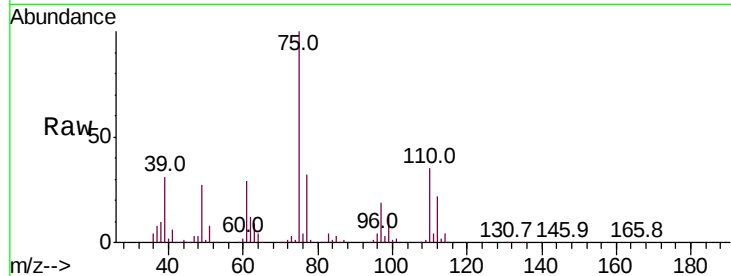
ClientSampleId :

Tot Ion: 75 Resp: 265412

Ion Ratio Lower Upper

75 100

77 31.5 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU034765.D (-2903) (-)

Ion 77.00 (76.70 to 77.70): VU034765.D (-2903) (-)

10.47

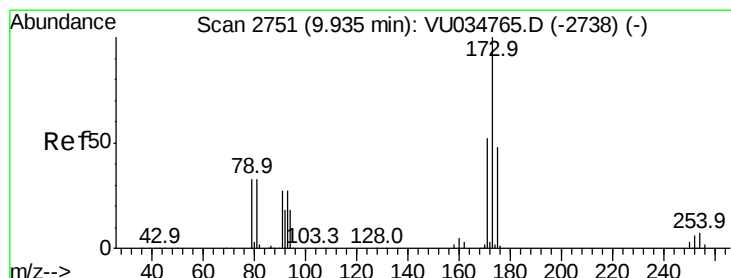
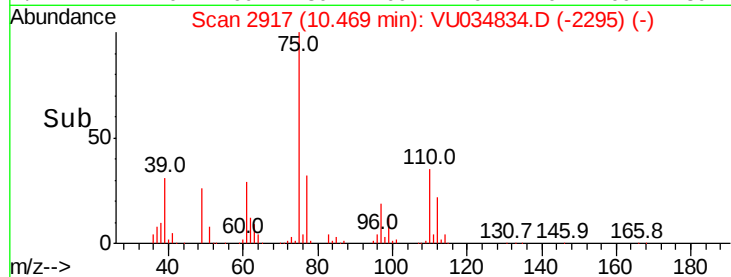
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 47.900 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

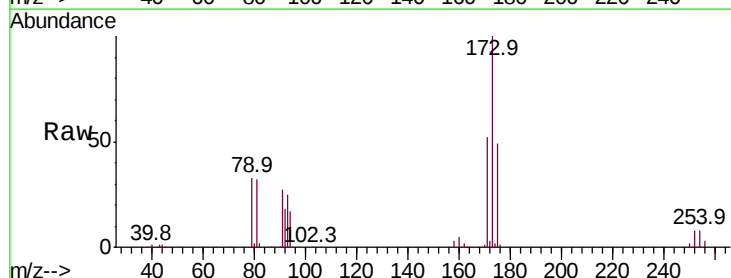
Tgt Ion: 173 Resp: 145465

Ion Ratio Lower Upper

173 100

175 49.0 38.8 58.2

254 7.1 5.3 7.9



Abundance Ion 173.00 (172.70 to 173.70): VU034765.D (-2738) (-)

Ion 175.00 (174.70 to 175.70): VU034765.D (-2738) (-)

Ion 254.00 (253.70 to 254.70): VU034765.D (-2738) (-)

9.94

100000

80000

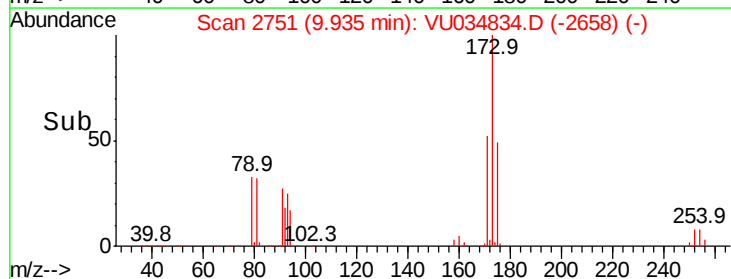
60000

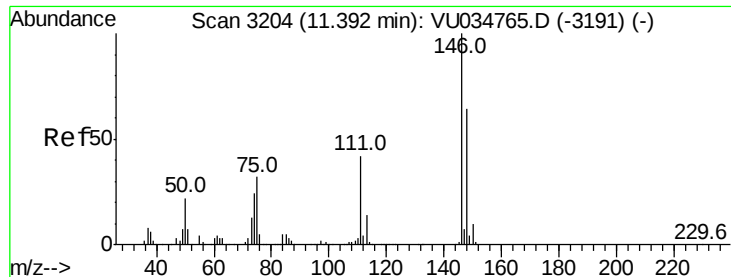
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.522 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

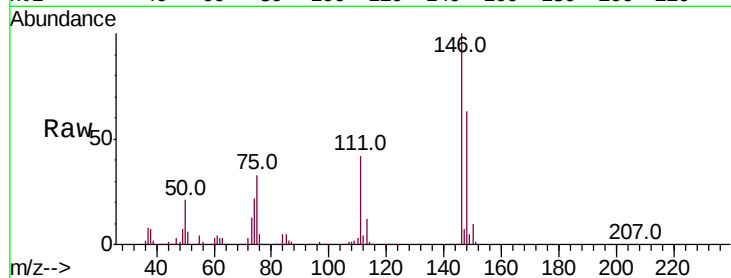
Tot Ion:146 Resp: 378269

Ion	Ratio	Lower	Upper
146	100		
111	41.7	30.4	56.5
148	62.7	46.1	85.7

146 100

111 41.7 30.4 56.5

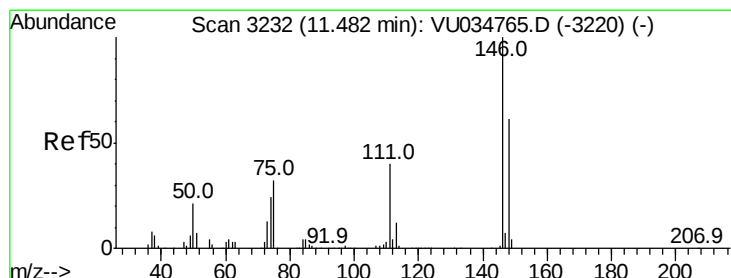
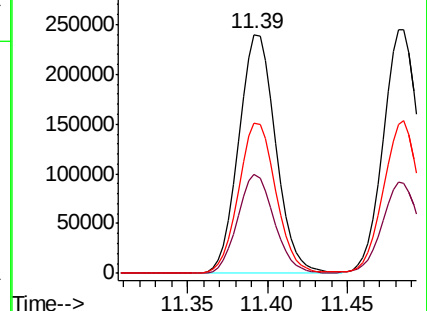
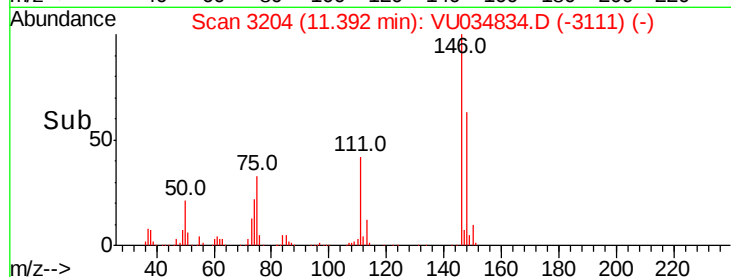
148 62.7 46.1 85.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.182 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

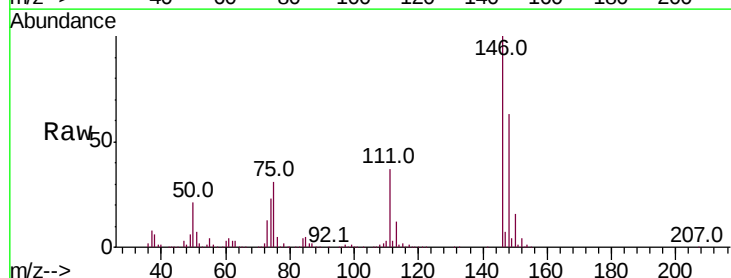
Tgt Ion:146 Resp: 390471

Ion	Ratio	Lower	Upper
146	100		
111	37.0	29.5	54.9
148	62.6	44.4	82.4

146 100

111 37.0 29.5 54.9

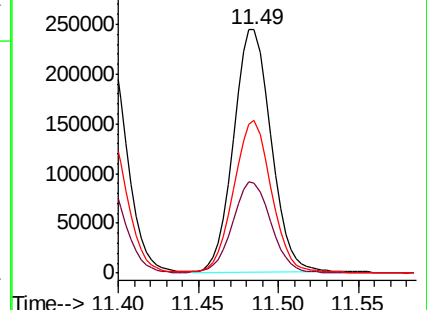
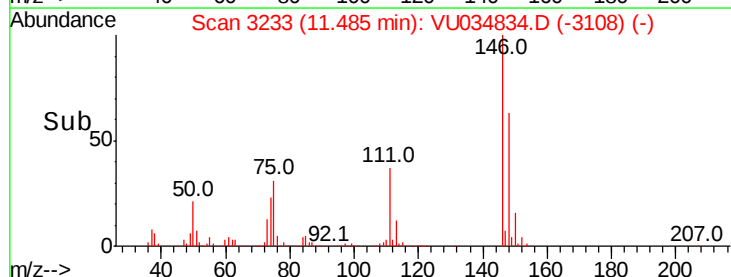
148 62.6 44.4 82.4

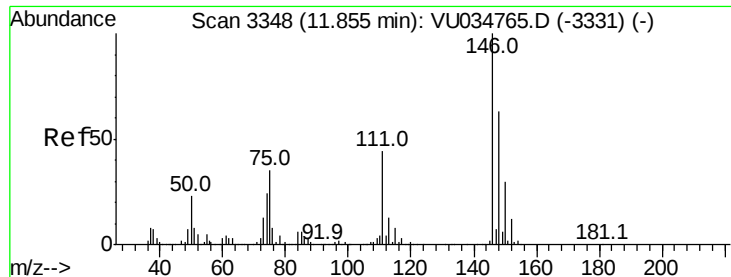


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

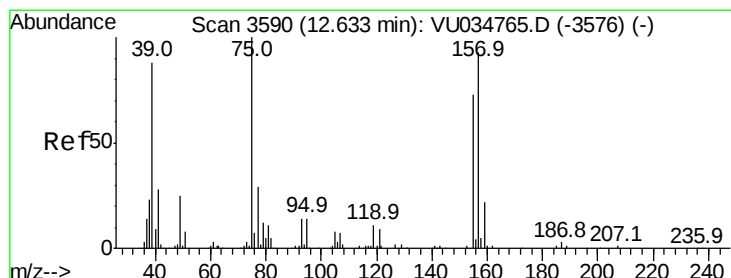
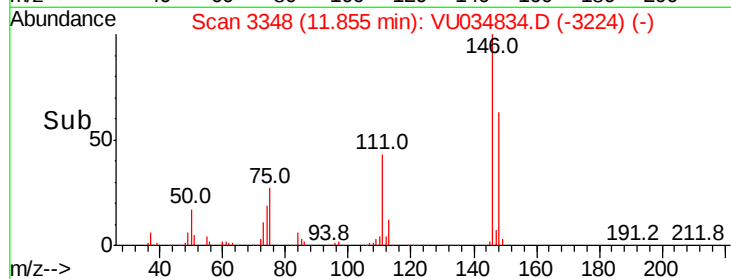
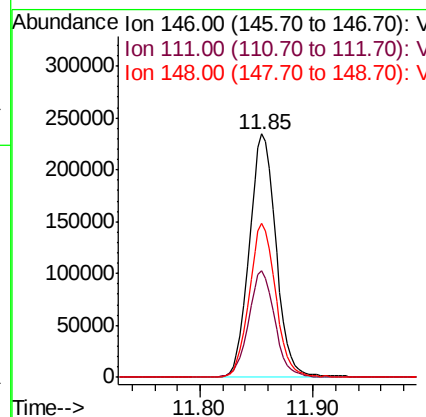
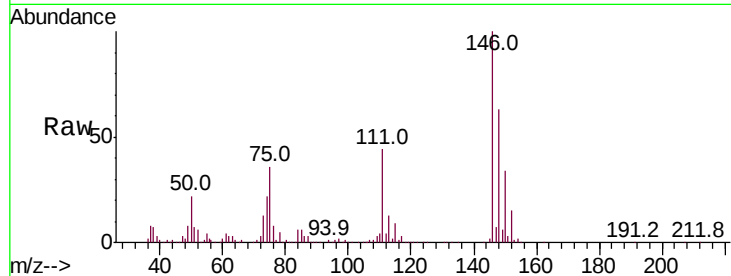




#65
 1,2-Dichlorobenzene
 Concen: 49.802 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

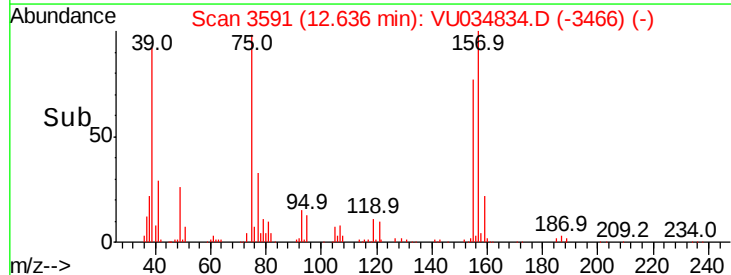
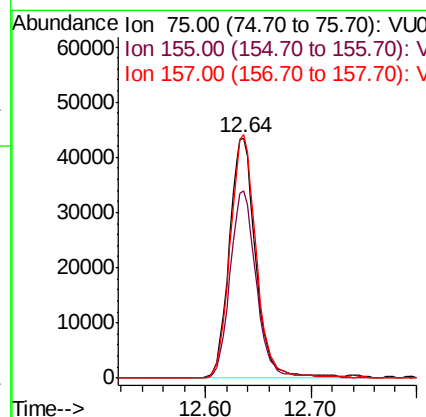
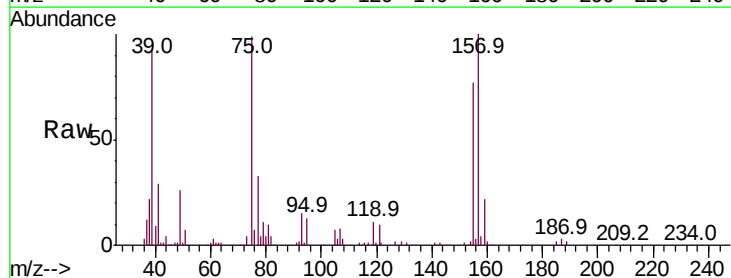
Instrument :
 MSVOA_U
 ClientSampleId :

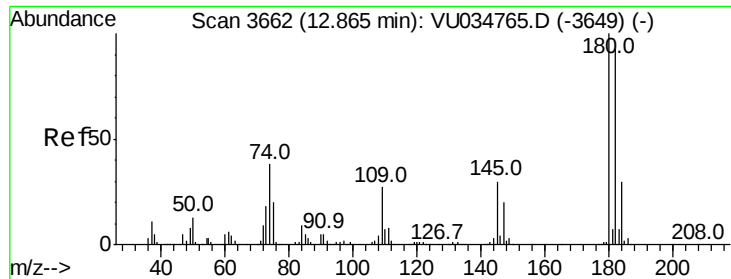
Tot Ion:146 Resp: 384362
 Ion Ratio Lower Upper
 146 100
 111 43.6 35.2 52.8
 148 63.2 53.0 79.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.565 ug/L
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

Tgt Ion: 75 Resp: 74748
 Ion Ratio Lower Upper
 75 100
 155 77.9 54.7 82.1
 157 101.5 69.9 104.9

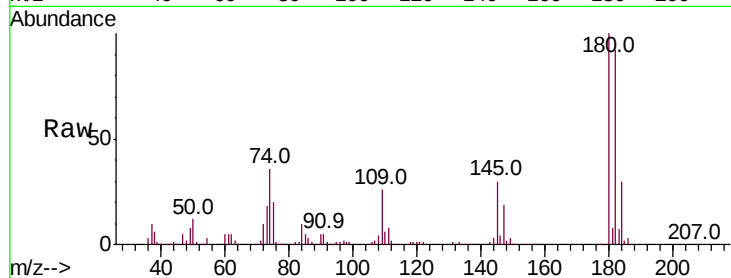




#67
 1,3,5-Trichlorobenzene
 Concen: 48.611 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	79.2	118.8
184	31.5	24.6	36.8
145	30.2	24.9	37.3



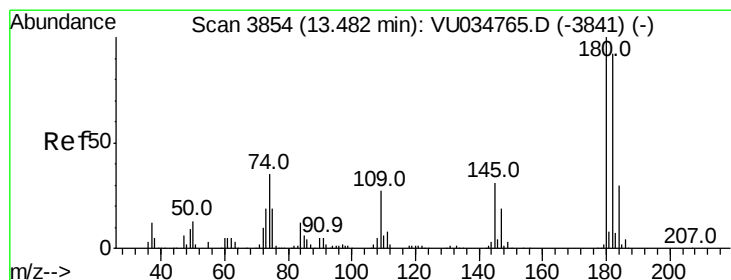
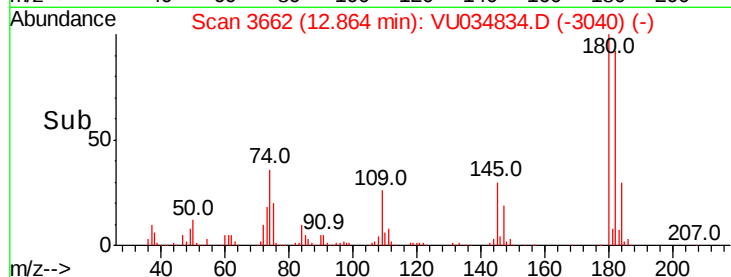
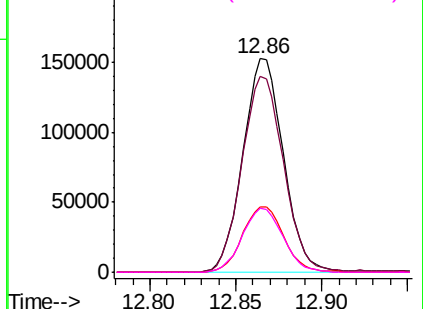
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

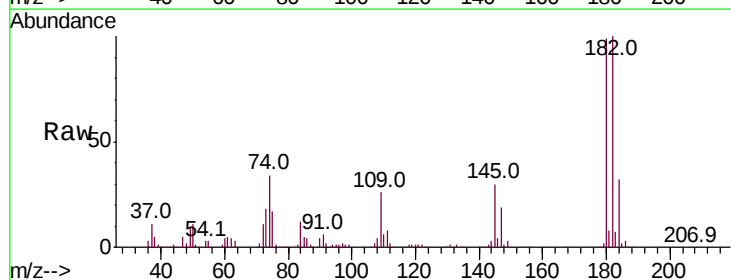
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 56.530 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034834.D
 Acq: 26 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	75.7	113.5
145	29.9	25.2	37.8

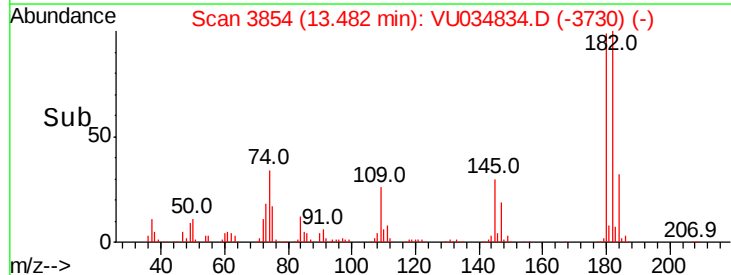
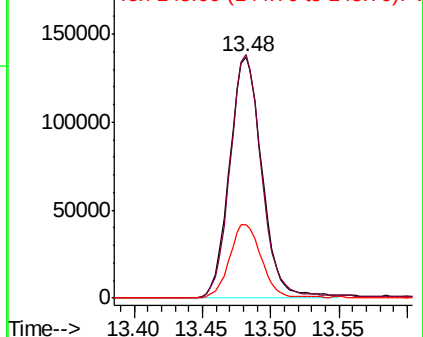


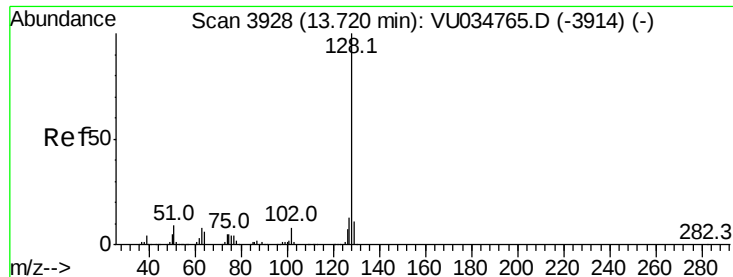
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 60.024 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

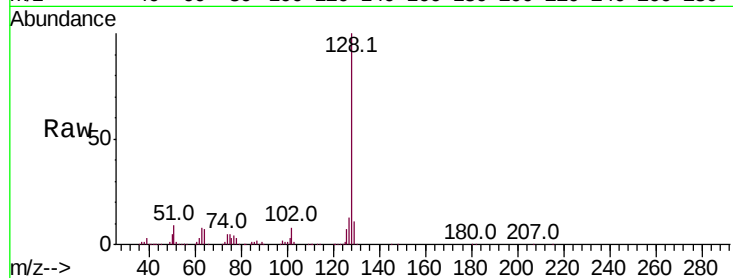
Tot Ion:128 Resp: 836289

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

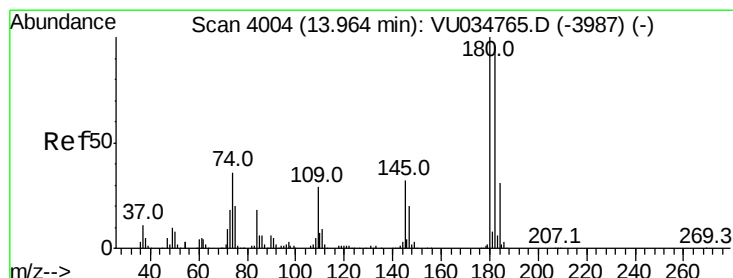
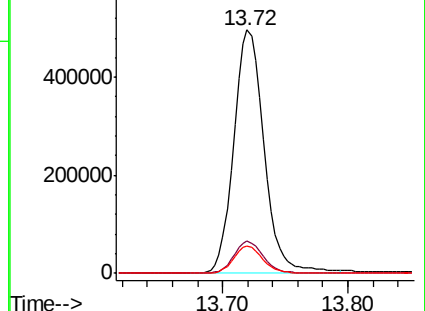
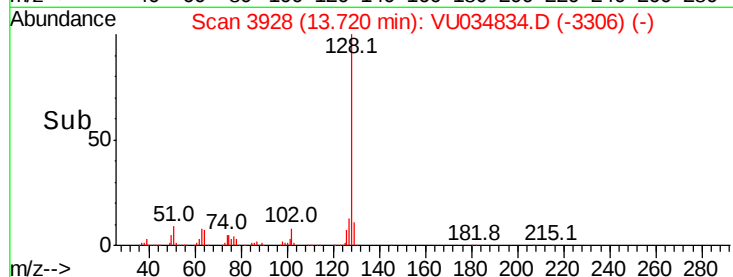
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 55.671 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034834.D

Acq: 26 Sep 2019 10:08

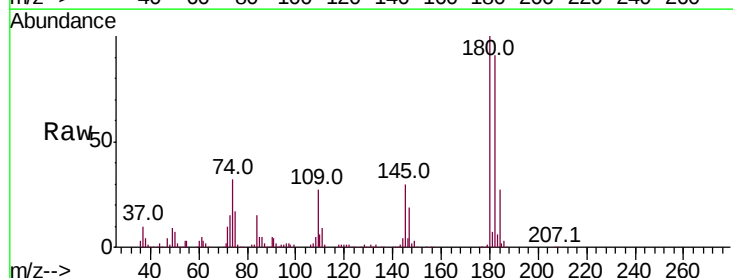
Tgt Ion:180 Resp: 230541

Ion Ratio Lower Upper

180 100

182 91.6 79.2 118.8

145 30.9 26.0 39.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

